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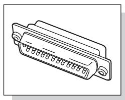
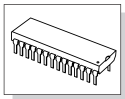
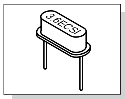
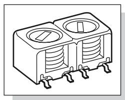
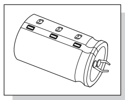
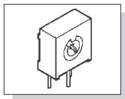
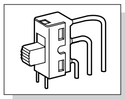
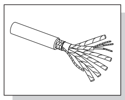
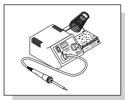
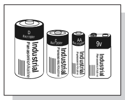
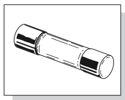
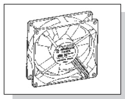
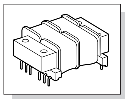
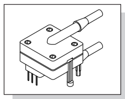
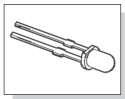
	Connectors, Cable Assemblies, IC Sockets...........18-278	INCLUDES SMT	A
	Semiconductors, ICs, Transistors, Diodes, Rectifiers......279-595	INCLUDES SMT	B
	Crystals, Oscillators..........596-627	INCLUDES SMT	C
	Inductors, Coils, Filters 628-682	INCLUDES SMT	D
	Capacitors 683-794	INCLUDES SMT	E
	Resistors, Potentiometers, Thermistors, ZNRs ...795-862	INCLUDES SMT	F
	Switches, Relays, Electromechanical ...863-958	INCLUDES SMT	G
	Wire, Cable & Access., Buzzers, Mics, Speakers.....959-985		H
	Prototyping, Tools, Solder, Test Equipment.....986-1048	INCLUDES SMT	I
	Batteries 1049-1058	INCLUDES SMT	J
	Fuses 1059-1081	INCLUDES SMT	K
	Fans 1082-1091		L
	Transformers, Power Supplies ...1092-1126	INCLUDES SMT	M
	Sensors and Industrial Controls..........1127-1172	INCLUDES SMT	N
	Optoelectronics, LEDs, LCDs, Lasers, Displays...1173-1224	INCLUDES SMT	O

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Conversion Chart

inch	*to*	mm	inch x 25.4
mm	*to*	inch	mm ÷ 25.4
inch	*to*	cm	inch x 2.54
cm	*to*	inch	cm x .3937
feet	*to*	meters	foot x .3048
meters	*to*	feet	meter x 3.28084
ounce	*to*	grams	oz. x 28.349
pounds	*to*	kilograms	lb. x .4536
µf	*to*	pf	.1µf = 100,000pf
µf	*to*	nf	.1µf = 100nf
pf	*to*	nf	100,000pf = 100nf
nf	*to*	µf	100nf = .1µf
celsius	*to*	fahrenheit	c x 1.8 + 32
fahrenheit	*to*	celsius	f – 32 ÷ 1.8

VA = volt x amps
watt = volt x amps

MAIL/FAX ORDER FORM

#T033

701 Brooks Ave. South
PO Box 677
Thief River Falls, MN 56701-0677

	No. of Pages:
To:	**From:**
Co.: *Digi-Key Corporation*	**Co.:**
Dept.: *Order Department*	**Phone No:**
Fax No: *218-681-3380*	**Fax No:**

(Please Check One)

Payment Method: ☐ **Credit Card** ☐ **COD** ☐ **Check or MO** ☐ **Open Acct.**

Card Number: ☐☐☐☐-☐☐☐☐-☐☐☐☐-☐☐☐☐

☐ **MC** ☐ **VISA**
☐ **AmEx** ☐ **Discover**

Expiration Date ☐☐ ☐☐ **Mo.** **Yr.**

Security Code *(See back of card.)* ☐☐☐☐

Credit Card Holder's Name (Please Print Clearly) ____________________

☐ **Personal Order** ☐ **Company Order** **(Please Check One)**

Ship to:

Customer Number ____________________

Customer Name ____________________

Company Name ____________________ **Phone ( )** __________

Shipping Address ____________________ **Apartment/Suite** __________

City ____________________ **State** ______ **Zip** ______

Bill to:

P.O. No. ____________________ **Account No.** ____________________

Company Name ____________________ **Phone ( )** __________

Billing Address ____________________ **Apartment/Suite** __________

City ____________________ **State** ______ **Zip** ______

Quantity		Digi-Key Part No.	Description (brief)	Price/Unit	Total Price
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Ship Via: ____________

Are substitutions acceptable?

☐ Yes ☐ No

Are backorders acceptable?

☐ Yes ☐ No

Backordered for a period of ______ days.

Backorder shipping method: ____________

Confirmation required?

☐ Yes ☐ No

Confirm VIA: ☐ Phone ☐ FAX

HANDLING CHARGES

$0.00 - $24.99	**Add $5.00**
$25.00 and Up	**No Charge**
International Orders	**Additional $6.00**

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1. Total of all items . . . . $________

2. Orders less than $25.00
   add $5.00 handling charge . . . $________

3. Sub Total . . . . $________

4. Minnesota residents
   add 6.5% tax of line 3. . . . . . . $________

5. International orders
   (excluding Canada)
   add $6.00 . . . . $________

6. Total enclosed . . . . $________
   (Total of all lines) (US Dollars)

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Order on-line 24-hours a day, 7 days a week, 365 days a year. Digi-Key's Top Rated Web site receives hundreds-of-thousands of orders each year. Internet orders entered after normal business hours are promptly processed and shipped the next business day.

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Digi-Key Corporation
701 Brooks Avenue South
PO Box 677
Thief River Falls MN 56701-0677

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Digi-Key makes every effort to present current and accurate pricing in its catalog and on its Web site. However, prices are subject to change without notice and quantities may be limited. All orders are subject to current pricing at time of acceptance by Digi-Key. Digi-Key country specific Web sites offer alternative currencies. No trade in other currencies will be accepted.

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- Orders entered by 6:00pm CT–All USPS Options (Express Mail delayed 1 day).
- Orders entered by 7:00pm CT–All FedEx air options.
- Orders entered by 8:00pm CT–All UPS air and surface options.

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Shipping or freight charges and insurance will be paid by the customer*. All sales are made FOB point (as defined by the INCOTERMS 2000) in Thief River Falls, MN, USA. Shipping or freight charges from Digi-Key's warehouse in Thief River Falls, MN are prepaid and added to the invoice, billed collect or billed to a 3rd party.

* When a check or money order accompanies your order, Digi-Key pays all shipping and insurance (our choice for method of shipping) to all addresses in the USA and Canada, unless such charges exceed 10% on orders of $200 or less, or 5% on orders greater than $200. Digi-Key will notify you prior to shipment if these conditions exist.

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- A $5.00 handling charge applies to all orders less than $25.00.
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For United States customers we offer check, money order, MasterCard, VISA, American Express, Discover, and C.O.D. as well as open account credit to qualified institutions and businesses.

For Canadian customers we offer all of the above payment options except C.O.D.

For International customers see “International Orders” below.

To obtain a credit application for open account credit, contact any sales representative by calling 800-344-4539 (US & Canada) or 218-681-6674 or faxing your request to 218-681-3380. Or, you may go to www.digikey.com and click on “Contact Us”, which will bring you to the “Digi-Key Communications” page. Then click on “Net 30 Credit Application” in the “Accounting” box. Please allow sufficient time for the credit approval process. To avoid delay on your initial order you may elect an alternative payment method.

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If a check you give us for payment is dishonored for any reason by the bank or other institution on which it is drawn, you agree to pay us $20.00 as a service charge (if the check cannot be redeposited) pursuant to Minnesota Statutes § 332.50. In addition, you agree to pay any other reasonable charges imposed by any check verification company or collection agency that we may use for collection.

Out-Of-Stock:

On orders paid by check, money order or credit card, items not available for immediate shipment will be shipped as they become available. Items not available at the end of 30 days will be cancelled and refunded/credited in cases of prepayment. The number of backorder days may be extended beyond 30 days at customer’s request. If a refund check is issued, the cancelled item can be re-entered without a handling charge if the check and cancellation notice are returned to us.

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In addition to the United States and its territories, Digi-Key accepts International orders. All orders of International origin are exported from the US in accordance with the Export Administration Regulations. Diversion contrary to US Law is prohibited. An additional handling charge of $6.00 will be included for processing and invoicing. All duties and taxes will be the responsibility of the customer.

Payment options for International customers: MasterCard, VISA, American Express, Discover, cashier’s check in US funds, as well as open account credit to qualified institutions and businesses. We cannot accept personal checks or certified personal checks. Money orders can result in significant delays. Use of Letters of Credit must be approved in advance by Digi-Key’s Accounting Department.

To obtain a credit application for open account credit, contact any sales representative by calling 218-681-6674 or faxing your request to 218-681-3380. Or, you may go to www.digikey.com and click on “Contact Us”, which will bring you to the “Digi-Key Communications” page. Then click on “Net 30 Credit Application” in the “Accounting” box. Please allow sufficient time for the credit approval process. To avoid delay on your initial order you may elect an alternative payment method.

Customer Service:

Voice: 800-858-3616 in (US & Canada) or 218-681-6674

Fax: 218-681-3380

Internet: www.digikey.com (click “Contact Us”)

Mail: Digi-Key Corporation
Attn: Customer Service
PO Box 677
Thief River Falls MN 56701-0677

A friendly, competent staff of customer service representatives is available from 6:00pm Sunday through 6:00am Saturday Central Time to assist you. Please have your sales order or invoice number available when you call.

Freight Damage:

If you receive merchandise that has been damaged in transit, it is important to keep the shipping carton, packing material and parts intact. Please contact a Digi-Key Customer Service representative immediately to initiate a claim. See “Customer Service” above for contact information.

Return Policy:

Digi-Key accepts merchandise returns subject to the terms outlined below and will replace the product or refund your money at your option.
To facilitate processing of returned merchandise:

- Please contact a Customer Service Representative to obtain an RMA (Returned Merchandise Authorization) number prior to returning product. See “Customer Service” above for contact information.
- All returns should be made within 30 days of date of invoice and be accompanied by the original invoice number and a brief explanation of the reason for the return.
- Return freight charge must be prepaid. Sorry, C.O.D. returns cannot be accepted.
- Returned merchandise must be in original packaging and resalable condition.
- Parts returned due to customer error may be subject to a restocking charge. “Not-in Catalog Items” and parts specified as “Non-Cancelable/Non-Returnable” at time of quote or sale are not returnable.
- Defective merchandise may be returned within 90 days of the original invoice date and need not be in original packaging.

Duplicate Mailings:

If you receive more than one catalog with the same name and address, please return the labels to Digi-Key and pass the catalog along to a friend. Also, if you do not require multiple copies to the same company address, contact a sales representative to verify your mailing information. A forms based communications method for catalog issues (Receive, Remove, Change of Address) can be accessed at www.digikey.com by clicking “Contact Us”, which brings you to the “Digi-Key Communications” page. Then click “Catalog Mailing List” and scroll to “Service Out Options” to note your preferences. Alternatively, you may mail, telephone or fax Digi-Key your request.

Environmental Note:

Anti-static packing peanuts used by Digi-Key contain no CFCs and are biodegradable. Digi-Key’s catalogs are printed on recycled paper using vegetable-based ink.

Privacy Policy:

Your privacy as a customer is very important to us. We want you to know how your customer information is used.

Once you make a purchase, request a catalog or other information from Digi-Key, your name, shipping/mailing address, telephone number, email address and fax number are included in our customer file.

This information is used to ensure a quick, efficient flow of products and services to you. This information may also be used for other purposes as outlined below.

Postal Addresses: Digi-Key may use your mailing address to send the Digi-Key catalog to keep you updated on our most current products and services.
Occasionally, Digi-Key may make the names and addresses of our customer list available to carefully screened companies that offer products and/or services that may be of interest to you.

Email Addresses: Email addresses may be used to communicate information of interest to you about Digi-Key. This includes Order Shipment/Tracking Information, Obsolete Part Bulletins, Service Change Information or other Digi-Key promotional emails.
Emails may be sent by Digi-Key or an authorized agent working for Digi-Key. All authorized agents operate with a confidentiality agreement. Information sent in this manner will always include “opt out” options.

Email addresses are never rented, sold or traded to third parties.

Opt Out: You may elect to opt out of any of the above uses of your customer information by completing the “Opt Out” form in our privacy statement on our Web site or by contacting us by telephone, fax or mail.

Other Uses Of Customer Information: Digi-Key is under contract to provide point of sale information to many of its product suppliers for market research and payment of commission to the supplier’s agents.
If you have an open account with Digi-Key, credit and payment history will periodically be shared with credit reporting agencies.
Customer information is also used for marketing and market research for Digi-Key Corporation. Digi-Key will share customer information with government agencies if required by law.

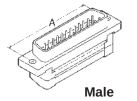
Note: We reserve the right to make changes to our privacy policy at any time without prior notification.

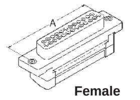
ISO Certified:

Digi-Key’s operations from order entry through shipping have been fully ISO certified since March 17,1994 and are recertified on an annual basis. Copies of our quality manual are available at www.digikey.com or upon verbal or written request. A copy of Digi-Key Corporation’s ISO Certification is also available by request.

AMP tyco Electronics
Authorized Distributor

D-Subminiature Connectors


Male


Female

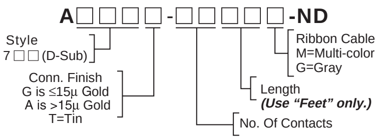
Material and Finish:
Plastic Shell: Housing, Cover & Cable Stabilizer — 94V-0 rated thermoplastic, black

Metal Shell: Front Shell — Steel, tin plated • **Housing, Cover & Cable Stabilizer —** 94V-0 rated thermoplastic, black • **Contacts —** Phosphor bronze, duplex plated 30µ" gold on mating end, tin-lead on termination end, with entire contact nickel underplated • **Threaded Inserts —** Brass, unplated

Mounting Holes: Standard — .120" (3.05mm) Dia.

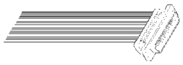
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Assoc., File No. LR 46568

No. of Contacts	Contact Finish	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	AMP Part No.
Male D-Sub Conn., Plastic Shell						
9	Gold	.984 (24.99)	AMS09G-ND	6.45	30.94	747321-4
15	Gold	1.312 (33.32)	AMS15G-ND	7.51	36.03	747321-3
25	Gold	1.852 (47.04)	AMS25G-ND	9.36	44.93	747321-2
37	Gold	2.500 (63.50)	AMS37G-ND	12.80	61.46	747321-1
Male D-Sub Conn., Metal Shell, With Threaded Inserts						
9	Gold	.984 (24.99)	AML09K-ND	8.74	41.96	747043-4
15	Gold	1.312 (33.32)	AML15K-ND	9.80	47.05	747043-3
25	Gold	1.852 (47.04)	AML25K-ND	11.75	56.38	747043-2
37	Gold	2.500 (63.50)	AML37K-ND	15.01	72.06	747043-1
Female D-Sub Conn., Plastic Shell						
9	Gold	.984 (24.99)	AFS09G-ND	6.45	30.94	747318-4
15	Gold	1.312 (33.32)	AFS15G-ND	7.51	36.03	747318-3
25	Gold	1.852 (47.04)	AFS25G-ND	9.36	44.93	747318-2
37	Gold	2.500 (63.50)	AFS37G-ND	12.80	61.46	747318-1
Female D-Sub Conn., Metal Shell, With Threaded Inserts						
9	Gold	.984 (24.99)	AFL09K-ND	8.74	41.96	747052-4
15	Gold	1.312 (33.32)	AFL15K-ND	9.80	47.05	747052-3
25	Gold	1.852 (47.04)	AFL25K-ND	11.75	56.38	747052-2
37	Gold	2.500 (63.50)	AFL37K-ND	15.01	72.06	747052-1
Male D-Sub Conn., Metal Shell						
9	Gold	.984 (24.99)	AMR09G-ND	6.98	33.49	747306-4
15	Gold	1.312 (33.32)	AMR15G-ND	7.95	38.15	747306-3
25	Gold	1.852 (47.04)	AMR25G-ND	9.89	47.48	747306-2
37	Gold	2.500 (63.50)	AMR37G-ND	13.25	63.58	747306-1
50	Gold	2.406 (61.11)	AMR50G-ND	21.07	171.57	746790-1
Male D-Sub Conn., Plastic Shell, With Threaded Inserts						
9	Gold	.984 (24.99)	AMV09K-ND	8.30	39.85	747053-4
15	Gold	1.312 (33.32)	AMV15K-ND	9.36	44.93	747053-3
25	Gold	1.852 (47.04)	AMV25K-ND	11.22	53.83	747053-2
37	Gold	2.500 (63.50)	AMV37K-ND	14.57	69.94	747053-1
Female D-Sub Conn., Metal Shell						
9	Gold	.984 (24.99)	AFR09G-ND	6.98	33.49	747303-4
15	Gold	1.312 (33.32)	AFR15G-ND	7.95	38.15	747303-3
25	Gold	1.852 (47.04)	AFR25G-ND	9.89	47.48	747303-2
37	Gold	2.500 (63.50)	AFR37G-ND	13.25	63.58	747303-1
50	Gold	2.406 (61.11)	AFR50G-ND	24.08	196.08	746789-1
Female D-Sub Conn., Plastic Shell, With Threaded Inserts						
9	Gold	.984 (24.99)	AFV09K-ND	8.30	39.85	747051-4
15	Gold	1.312 (33.32)	AFV15K-ND	9.36	44.93	747051-3
25	Gold	1.852 (47.04)	AFV25K-ND	11.22	53.83	747051-2
37	Gold	2.500 (63.50)	AFV37K-ND	14.57	69.94	747051-1
Cable Strain Relief/Stabilizer						
9	—	—	ADSR09-ND	.32	2.52	747275-4
15	—	—	ADSR15-ND	.36	2.84	747275-3
25	—	—	ADSR25-ND	.40	3.15	747275-2
37	—	—	ADSR37-ND	.48	3.79	747275-1
50	—	—	ADSR50-ND	1.00	7.89	746785-1



D-Subminiature Cable Assemblies

Single Ended — Male

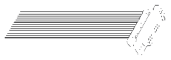


***** MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7MXG-0906M-ND	8.53	69.44
	Gold	6 (1.83)	GR	A7MXG-0906G-ND	8.27	67.30
	Gold	10 (3.05)	MC	A7MXG-0910M-ND	9.50	77.39
	Gold	10 (3.05)	GR	A7MXG-0910G-ND	9.07	73.83
15	Gold	6 (1.83)	MC	A7MXG-1506M-ND	10.78	87.80
	Gold	6 (1.83)	GR	A7MXG-1506G-ND	9.96	81.14
	Gold	10 (3.05)	MC	A7MXG-1510M-ND	12.53	102.05
	Gold	10 (3.05)	GR	A7MXG-1510G-ND	11.17	90.94
25	Gold	6 (1.83)	MC	A7MXG-2506M-ND	14.24	115.96
	Gold	6 (1.83)	GR	A7MXG-2506G-ND	13.08	106.51
	Gold	10 (3.05)	MC	A7MXG-2510M-ND	16.99	138.33
	Gold	10 (3.05)	GR	A7MXG-2510G-ND	15.05	122.58
37	Gold	6 (1.83)	MC	A7MXG-3706M-ND	19.73	160.67
	Gold	6 (1.83)	GR	A7MXG-3706G-ND	18.24	148.53
	Gold	10 (3.05)	MC	A7MXG-3710M-ND	23.75	193.42
	Gold	10 (3.05)	GR	A7MXG-3710G-ND	21.27	173.19

Also available in the following configuration:
A7PX□-□□□□□-ND – With Metal Shell Connector.
A7VXK-□□□□□-ND – Metal Shell w/ Threaded Insert & Strain Relief.
A7NXK-□□□□□-ND – Plastic Shell w/ Threaded Insert & Strain Relief.
Call for complete part number and pricing!

Single Ended — Female

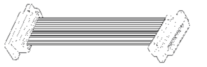


***** MC = Multi-Color
GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7FXG-0906M-ND	8.56	69.72
	Gold	6 (1.83)	GR	A7FXG-0906G-ND	8.30	67.58
	Gold	10 (3.05)	MC	A7FXG-0910M-ND	9.54	77.67
	Gold	10 (3.05)	GR	A7FXG-0910G-ND	9.10	74.11
15	Gold	6 (1.83)	MC	A7FXG-1506M-ND	11.65	94.88
	Gold	6 (1.83)	GR	A7FXG-1506G-ND	10.83	88.21
	Gold	10 (3.05)	MC	A7FXG-1510M-ND	13.40	109.13
	Gold	10 (3.05)	GR	A7FXG-1510G-ND	12.04	98.01
25	Gold	6 (1.83)	MC	A7FXG-2506M-ND	14.82	120.70
	Gold	6 (1.83)	GR	A7FXG-2506G-ND	13.66	111.26
	Gold	10 (3.05)	MC	A7FXG-2510M-ND	17.57	143.07
	Gold	10 (3.05)	GR	A7FXG-2510G-ND	15.64	127.34
37	Gold	6 (1.83)	MC	A7FXG-3706M-ND	21.21	172.71
	Gold	6 (1.83)	GR	A7FXG-3706G-ND	19.72	160.57
	Gold	10 (3.05)	MC	A7FXG-3710M-ND	25.23	205.46
	Gold	10 (3.05)	GR	A7FXG-3710G-ND	22.75	185.22

Also available in the following configuration:
A7SX□-□□□□□-ND – With Metal Shell Connector.
A7WXK-□□□□□-ND – Metal Shell w/ Threaded Insert & Strain Relief.
A7OXK-□□□□□-ND – Plastic Shell w/ Threaded Insert & Strain Relief.
Call for complete part number and pricing!

Male to Male

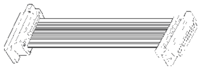


***** MC = Multi-Color
GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7MMG-0906M-ND	15.59	126.95
	Gold	6 (1.83)	GR	A7MMG-0906G-ND	15.33	124.82
	Gold	10 (3.05)	MC	A7MMG-0910M-ND	16.57	134.91
	Gold	10 (3.05)	GR	A7MMG-0910G-ND	16.13	131.34
15	Gold	6 (1.83)	MC	A7MMG-1506M-ND	18.94	154.23
	Gold	6 (1.83)	GR	A7MMG-1506G-ND	18.12	147.56
	Gold	10 (3.05)	MC	A7MMG-1510M-ND	20.69	168.48
	Gold	10 (3.05)	GR	A7MMG-1510G-ND	19.33	157.37
25	Gold	6 (1.83)	MC	A7MMG-2506M-ND	24.36	198.35
	Gold	6 (1.83)	GR	A7MMG-2506G-ND	23.20	188.91
	Gold	10 (3.05)	MC	A7MMG-2510M-ND	27.11	220.73
	Gold	10 (3.05)	GR	A7MMG-2510G-ND	25.17	204.98
37	Gold	6 (1.83)	MC	A7MMG-3706M-ND	35.81	291.56
	Gold	6 (1.83)	GR	A7MMG-3706G-ND	31.94	260.09
	Gold	10 (3.05)	MC	A7MMG-3710M-ND	37.45	304.98
	Gold	10 (3.05)	GR	A7MMG-3710G-ND	34.97	284.74

Also available in the following configuration:
A7PP□-□□□□□-ND – With Metal Shell Connector.
A7VVK-□□□□□-ND – Metal Shell w/ Threaded Insert & Strain Relief.
A7NNK-□□□□□-ND – Plastic Shell w/ Threaded Insert & Strain Relief.
Call for complete part number and pricing!

Female to Female

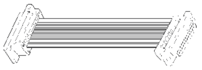


***** MC = Multi-Color
GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7FFG-0906M-ND	15.66	127.51
	Gold	6 (1.83)	GR	A7FFG-0906G-ND	15.40	125.37
	Gold	10 (3.05)	MC	A7FFG-0910M-ND	15.48	126.06
	Gold	10 (3.05)	GR	A7FFG-0910G-ND	16.20	131.90
15	Gold	6 (1.83)	MC	A7FFG-1506M-ND	20.68	168.38
	Gold	6 (1.83)	GR	A7FFG-1506G-ND	19.86	161.71
	Gold	10 (3.05)	MC	A7FFG-1510M-ND	22.43	182.63
	Gold	10 (3.05)	GR	A7FFG-1510G-ND	21.06	171.51
25	Gold	6 (1.83)	MC	A7FFG-2506M-ND	25.53	207.85
	Gold	6 (1.83)	GR	A7FFG-2506G-ND	24.36	198.39
	Gold	10 (3.05)	MC	A7FFG-2510M-ND	28.27	230.22
	Gold	10 (3.05)	GR	A7FFG-2510G-ND	26.34	214.46
37	Gold	6 (1.83)	MC	A7FFG-3706M-ND	36.39	296.31
	Gold	6 (1.83)	GR	A7FFG-3706G-ND	34.90	284.17
	Gold	10 (3.05)	MC	A7FFG-3710M-ND	40.41	329.06
	Gold	10 (3.05)	GR	A7FFG-3710G-ND	37.93	308.83

Also available in the following configuration:
A7SS□-□□□□□-ND – With Metal Shell Connector.
A7WWK-□□□□□-ND – Metal Shell w/ Threaded Insert & Strain Relief.
A7OOK-□□□□□-ND – Plastic Shell w/ Threaded Insert & Strain Relief.
Call for complete part number and pricing!

Male to Female

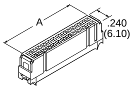


***** MC = Multi-Color
GR = Gray

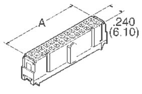
No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7MFG-0906M-ND	15.62	127.23
	Gold	6 (1.83)	GR	A7MFG-0906G-ND	15.36	125.09
	Gold	10 (3.05)	MC	A7MFG-0910M-ND	16.60	135.18
	Gold	10 (3.05)	GR	A7MFG-0910G-ND	16.16	131.62
15	Gold	6 (1.83)	MC	A7MFG-1506M-ND	19.81	161.31
	Gold	6 (1.83)	GR	A7MFG-1506G-ND	18.99	154.64
	Gold	10 (3.05)	MC	A7MFG-1510M-ND	21.56	175.56
	Gold	10 (3.05)	GR	A7MFG-1510G-ND	20.20	164.45
25	Gold	6 (1.83)	MC	A7MFG-2506M-ND	23.78	193.65
	Gold	6 (1.83)	GR	A7MFG-2506G-ND	23.75	193.40
	Gold	10 (3.05)	MC	A7MFG-2510M-ND	27.69	225.47
	Gold	10 (3.05)	GR	A7MFG-2510G-ND	25.76	209.72
37	Gold	6 (1.83)	MC	A7MFG-3706M-ND	34.91	284.27
	Gold	6 (1.83)	GR	A7MFG-3706G-ND	33.42	272.13
	Gold	10 (3.05)	MC	A7MFG-3710M-ND	38.93	317.02
	Gold	10 (3.05)	GR	A7MFG-3710G-ND	36.45	296.78

Also available in the following configuration:
A7PS□-□□□□□-ND – With Metal Shell Connector.
A7VWK-□□□□□-ND – Metal Shell w/ Threaded Insert & Strain Relief.
A7NOK-□□□□□-ND – Plastic Shell w/ Threaded Insert & Strain Relief.
Call for complete part number and pricing!

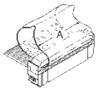
Socket Connectors



Socket Connector



Socket Connector with Central Polarizing Key



Permanent Pull-Tabs To Be Used With Strain Relief Version

Material and Finish:
Plastic Shell: Housing, Cover & Strain Relief — Black thermoplastic, 94V-0 rated • **Gold Finish: Contacts —** Phosphor bronze, duplex 15µ" gold or 30µ" gold on post/pin mating end, 100µ"-200µ" bright tin-lead on termination end, with entire contact underplated 50µ" nickel

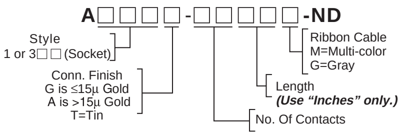
No. of Cont.	Contact Finish	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	AMP Part No.
Socket Connector Only (Strain Reliefs Sold Separately)						
10	15µ" AU	.68 (17.27)	ASC10G-ND	1.11	5.24	499997-1
14	15µ" AU	.88 (22.35)	ASC14G-ND	1.62	7.66	499997-2
16	15µ" AU	.98 (24.89)	ASC16G-ND	1.70	8.07	499997-3
20	15µ" AU	1.18 (29.97)	ASC20G-ND	1.79	8.47	499997-4
24	15µ" AU	1.38 (35.05)	ASC24G-ND	2.21	10.49	499997-5
26	15µ" AU	1.48 (37.59)	ASC26G-ND	2.21	10.49	499997-6
30	15µ" AU	1.68 (42.67)	ASC30G-ND	2.47	11.70	499997-7
34	15µ" AU	1.88 (47.75)	ASC34G-ND	2.47	11.70	499997-8
40	15µ" AU	2.18 (55.37)	ASC40G-ND	2.72	12.91	499997-9
50	15µ" AU	2.68 (68.07)	ASC50G-ND	3.32	15.73	1-499997-0
60	15µ" AU	3.18 (80.77)	ASC60G-ND	4.25	20.17	1-499997-1
64	15µ" AU	3.38 (85.85)	ASC64G-ND	4.68	22.18	1-499997-2

(Continued)

AMP tyco Electronics Authorized Distributor

Socket Connectors *(Cont.)*

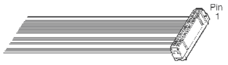
No. of Cont.	Contact Finish	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
10	30µ" AU	.680 (17.27)	ASN10A-ND	1.36	6.45	746290-1
14	30µ" AU	.880 (22.35)	ASN14A-ND	1.79	8.47	746290-2
16	30µ" AU	.980 (24.89)	ASN16A-ND	1.87	8.87	746290-3
20	30µ" AU	1.180 (29.97)	ASN20A-ND	1.96	9.28	746290-4
24	30µ"AU	1.380 (35.05)	ASN24A-ND	2.21	10.49	746290-5
26	30µ" AU	1.480 (37.59)	ASN26A-ND	2.21	10.49	746290-6
30	30µ" AU	1.680 (42.67)	ASN30A-ND	2.55	12.10	746290-7
34	30µ" AU	1.880 (47.75)	ASN34A-ND	2.81	13.31	746290-8
40	30µ" AU	2.180 (55.37)	ASN40A-ND	3.32	15.73	746290-9
50	30µ" AU	2.670 (68.07)	ASN50A-ND	4.00	18.96	1-746290-0
60	30µ" AU	3.180 (80.77)	ASN60A-ND	4.93	23.39	1-746290-1
64	30µ" AU	3.380 (85.85)	ASN64A-ND	5.44	25.81	1-746290-2
Socket Connector With Polarizing Key						
10	15µ" AU	.68 (17.27)	AKC10G-ND	1.11	5.24	746285-1
14	15µ" AU	.88 (22.35)	AKC14G-ND	1.62	7.66	746285-2
16	15µ" AU	.98 (24.89)	AKC16G-ND	1.70	8.07	746285-3
20	15µ" AU	1.18 (29.97)	AKC20G-ND	1.79	8.47	746285-4
24	15µ" AU	1.38 (35.05)	AKC24G-ND	2.21	10.49	746285-5
26	15µ" AU	1.48 (37.59)	AKC26G-ND	2.21	10.49	746285-6
30	15µ" AU	1.68 (42.67)	AKC30G-ND	2.47	11.70	746285-7
34	15µ" AU	1.88 (47.75)	AKC34G-ND	2.47	11.70	746285-8
40	15µ" AU	2.18 (55.37)	AKC40G-ND	2.72	12.91	746285-9
44	15µ" AU	2.38 (60.45)	AKC44G-ND	3.23	15.33	1-416285-3
50	15µ" AU	2.68 (68.07)	AKC50G-ND	3.32	15.73	1-746285-0
60	15µ" AU	3.18 (80.77)	AKC60G-ND	4.25	20.17	1-746285-1
64	15µ" AU	3.38 (85.85)	AKC64G-ND	4.68	22.18	1-746285-2
10	30µ" AU	.680 (17.27)	AKN10A-ND	1.36	6.45	746288-1
14	30µ" AU	.880 (22.35)	AKN14A-ND	1.79	8.47	746288-2
16	30µ" AU	.980 (24.89)	AKN16A-ND	1.87	8.87	746288-3
20	30µ" AU	1.180 (29.97)	AKN20A-ND	1.96	9.28	746288-4
24	30µ" AU	1.380 (35.05)	AKN24A-ND	2.21	10.49	746288-5
26	30µ" AU	1.480 (37.59)	AKN26A-ND	2.21	10.49	746288-6
30	30µ" AU	1.680 (42.67)	AKN30A-ND	2.81	13.31	746288-7
34	30µ" AU	1.880 (47.75)	AKN34A-ND	2.81	13.31	746288-8
40	30µ" AU	2.180 (55.37)	AKN40A-ND	3.32	15.73	746288-9
44	30µ" AU	2.380 (60.45)	AKN44A-ND	3.91	18.55	1-746288-3
50	30µ" AU	2.670 (68.07)	AKN50A-ND	4.00	18.96	1-746288-0
60	30µ" AU	3.180 (80.77)	AKN60A-ND	4.93	23.39	1-746288-1
64	30µ" AU	3.380 (85.85)	AKN64A-ND	5.44	25.81	1-746288-2
Strain Relief For Socket Connectors						
10	—	.68 (17.27)	ASSR10-ND	.19	1.72	499252-5
14	—	.88 (22.35)	ASSR14-ND	.19	1.72	499252-9
16	—	.98 (24.89)	ASSR16-ND	.19	1.72	499252-8
20	—	1.18 (29.97)	ASSR20-ND	.19	1.72	499252-2
24	—	1.38 (35.05)	ASSR24-ND	.23	2.06	1-499252-0
26	—	1.48 (37.59)	ASSR26-ND	.23	2.06	499252-3
30	—	1.68 (42.67)	ASSR30-ND	.23	2.06	1-499252-2
34	—	1.88 (47.75)	ASSR34-ND	.23	2.06	499252-6
40	—	2.18 (55.37)	ASSR40-ND	.27	2.41	499252-1
44	—	2.38 (60.45)	ASSR44-ND	.31	2.75	1-499252-1
50	—	2.68 (68.07)	ASSR50-ND	.31	2.75	499252-4
60	—	3.18 (80.77)	ASSR60-ND	.35	3.09	499252-7
64	—	3.38 (85.85)	ASSR64-ND	.42	3.78	1-499252-3
Permanent Pull Tabs (For Conn. With Strain Reliefs)						
10	—	.44 (11.18)	ASPT10-ND	.13	1.17	88450-2
14	—	.64 (16.26)	ASPT14-ND	.14	1.25	88450-3
16	—	.74 (18.80)	ASPT16-ND	.14	1.28	88450-4
20	—	.88 (22.35)	ASPT20-ND	.16	1.41	88450-5
24	—	1.08 (27.43)	ASPT24-ND	.17	1.54	88450-6
26	—	1.18 (29.97)	ASPT26-ND	.18	1.61	88450-7
30	—	1.38 (35.05)	ASPT30-ND	.19	1.74	1-88450-2
34	—	1.58 (40.13)	ASPT34-ND	.21	1.87	88450-8
40	—	1.82 (46.23)	ASPT40-ND	.23	2.07	88450-9
50	—	2.32 (58.93)	ASPT50-ND	.27	2.40	1-88450-0
60	—	2.80 (71.12)	ASPT60-ND	.31	2.73	1-88450-1
Continous strip no positions		120.0 (3048.0)	ASPT01-ND	18.59	166.45	88450-1
Keying Plug For Socket Connectors						
Keying Plugs			ASKP01-ND	.13	1.13	499712-1
Keying Plugs 10/Comb			ASKP02-ND	.93	8.38	104072-1



Termination Jumpers

Socket Connector — Single Ended

***** MC = Multi-Color
GR = Gray



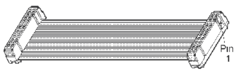
No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	36 (91.44)	MC	A1AXG-1036M-ND	1.92	15.67
	Gold	36 (91.44)	GR	A1AXG-1036G-ND	1.67	13.58
14	Gold	36 (91.44)	MC	A1AXG-1436M-ND	2.77	22.52
	Gold	36 (91.44)	GR	A1AXG-1436G-ND	2.41	19.65
16	Gold	36 (91.44)	MC	A1AXG-1636M-ND	3.01	24.54
	Gold	36 (91.44)	GR	A1AXG-1636G-ND	2.60	21.20
20	Gold	36 (91.44)	MC	A1AXG-2036M-ND	3.57	29.09
	Gold	36 (91.44)	GR	A1AXG-2036G-ND	3.06	24.94
24	Gold	36 (91.44)	MC	A1AXG-2436M-ND	4.19	34.08
	Gold	36 (91.44)	GR	A1AXG-2436G-ND	3.57	29.03
26	Gold	36 (91.44)	MC	A1AXG-2636M-ND	4.35	35.38
	Gold	36 (91.44)	GR	A1AXG-2636G-ND	3.69	30.06
30	Gold	36 (91.44)	MC	A1AXG-3036M-ND	4.60	37.46
	Gold	36 (91.44)	GR	A1AXG-3036G-ND	3.95	32.14
34	Gold	36 (91.44)	MC	A1AXG-3436M-ND	5.25	42.74
	Gold	36 (91.44)	GR	A1AXG-3436G-ND	4.40	35.81
40	Gold	36 (91.44)	MC	A1AXG-4036M-ND	6.01	48.92
	Gold	36 (91.44)	GR	A1AXG-4036G-ND	4.99	40.65
44	Gold	36 (91.44)	MC	A1CXG-4436M-ND †	6.61	53.86
	Gold	36 (91.44)	GR	A1CXG-4436G-ND †	5.60	45.59
50	Gold	36 (91.44)	MC	A1AXG-5036M-ND	8.09	65.88
	Gold	36 (91.44)	GR	A1AXG-5036G-ND	6.81	55.49
60	Gold	36 (91.44)	MC	A1AXG-6036M-ND	10.01	81.52
	Gold	36 (91.44)	GR	A1AXG-6036G-ND	8.50	69.19
64	Gold	36 (91.44)	MC	A1AXG-6436M-ND	9.59	78.06
	Gold	36 (91.44)	GR	A1AXG-6436G-ND	8.07	65.72

Also available in the following versions:
A1AX□-□□□□□-ND — Socket Connector
A1BX□-□□□□□-ND — Socket Connector with Strain Relief
A1CX□-□□□□□-ND — Socket Connector with Central Polarizing Key
A1DX□-□□□□□-ND — Socket Connector w/Strain Relief & Central Polarizing Key

† *The 44 position available only with central polarizing key.*
Call for complete part number and pricing!

Socket Connector to Socket Connector

***** MC = Multi-Color GR = Gray



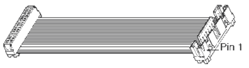
No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	6 (15.24)	MC	A3AAG-1006M-ND	2.35	19.12
	Gold	6 (15.24)	GR	A3AAG-1006G-ND	2.30	18.77
	Gold	18 (45.72)	MC	A3AAG-1018M-ND	2.62	21.34
	Gold	18 (45.72)	GR	A3AAG-1018G-ND	2.49	20.29
	Gold	36 (91.44)	MC	A3AAG-1036M-ND	3.03	24.67
	Gold	36 (91.44)	GR	A3AAG-1036G-ND	2.77	22.58
14	Gold	6 (15.24)	MC	A3AAG-1406M-ND	3.42	27.87
	Gold	6 (15.24)	GR	A3AAG-1406G-ND	3.36	27.40
	Gold	18 (45.72)	MC	A3AAG-1418M-ND	3.81	30.99
	Gold	18 (45.72)	GR	A3AAG-1418G-ND	3.63	29.56
	Gold	36 (91.44)	MC	A3AAG-1436M-ND	4.38	35.68
	Gold	36 (91.44)	GR	A3AAG-1436G-ND	4.11	33.49
16	Gold	6 (15.24)	MC	A3AAG-1606M-ND	3.62	29.48
	Gold	6 (15.24)	GR	A3AAG-1606G-ND	3.55	28.92
	Gold	18 (45.72)	MC	A3AAG-1618M-ND	4.06	33.04
	Gold	18 (45.72)	GR	A3AAG-1618G-ND	3.85	31.38
	Gold	36 (91.44)	MC	A3AAG-1636M-ND	4.71	38.39
	Gold	36 (91.44)	GR	A3AAG-1636G-ND	4.40	35.82
20	Gold	6 (15.24)	MC	A3AAG-2006M-ND	4.13	33.64
	Gold	6 (15.24)	GR	A3AAG-2006G-ND	4.05	32.95
	Gold	18 (45.72)	MC	A3AAG-2018M-ND	4.68	38.10
	Gold	18 (45.72)	GR	A3AAG-2018G-ND	4.42	36.03
	Gold	36 (91.44)	MC	A3AAG-2036M-ND	5.50	44.79
	Gold	36 (91.44)	GR	A3AAG-2036G-ND	4.99	40.64
24	Gold	6 (15.24)	MC	A3AAG-2406M-ND	4.75	38.69
	Gold	6 (15.24)	GR	A3AAG-2406G-ND	4.65	37.85
	Gold	18 (45.72)	MC	A3AAG-2418M-ND	5.41	44.05
	Gold	18 (45.72)	GR	A3AAG-2418G-ND	5.10	41.52
	Gold	36 (91.44)	MC	A3AAG-2436M-ND	6.40	52.08
	Gold	36 (91.44)	GR	A3AAG-2436G-ND	5.78	47.04
26	Gold	6 (15.24)	MC	A3AAG-2606M-ND	4.78	38.90
	Gold	6 (15.24)	GR	A3AAG-2606G-ND	4.67	38.02
	Gold	18 (45.72)	MC	A3AAG-2618M-ND	5.49	44.70
	Gold	18 (45.72)	GR	A3AAG-2618G-ND	5.16	42.04
	Gold	36 (91.44)	MC	A3AAG-2636M-ND	6.56	53.39
	Gold	36 (91.44)	GR	A3AAG-2636G-ND	5.90	48.06
30	Gold	6 (15.24)	MC	A3AAG-3006M-ND	5.29	43.06
	Gold	6 (15.24)	GR	A3AAG-3006G-ND	5.18	42.17
	Gold	18 (45.72)	MC	A3AAG-3018M-ND	6.00	48.85
	Gold	18 (45.72)	GR	A3AAG-3018G-ND	5.67	46.19
	Gold	36 (91.44)	MC	A3AAG-3036M-ND	7.07	57.54
	Gold	36 (91.44)	GR	A3AAG-3036G-ND	6.41	52.22
34	Gold	6 (15.24)	MC	A3AAG-3406M-ND	5.40	43.94
	Gold	6 (15.24)	GR	A3AAG-3406G-ND	5.22	42.49
	Gold	18 (45.72)	GR	A3AAG-3418G-ND	5.90	48.03
	Gold	36 (91.44)	MC	A3AAG-3436M-ND	7.71	62.82
	Gold	36 (91.44)	GR	A3AAG-3436G-ND	6.86	55.89
40	Gold	6 (15.24)	MC	A3AAG-4006M-ND	5.99	48.78
	Gold	6 (15.24)	GR	A3AAG-4006G-ND	5.82	47.40
	Gold	18 (45.72)	MC	A3AAG-4018M-ND	7.09	57.70
	Gold	18 (45.72)	GR	A3AAG-4018G-ND	6.96	56.69
	Gold	36 (91.44)	MC	A3AAG-4036M-ND	8.73	71.08
	Gold	36 (91.44)	GR	A3AAG-4036G-ND	7.71	62.81
44	Gold	6 (15.24)	MC	A3CCG-4406M-ND †	7.20	58.67
	Gold	6 (15.24)	GR	A3CCG-4406G-ND †	7.04	57.29
	Gold	18 (45.72)	MC	A3CCG-4418M-ND †	8.30	67.59
	Gold	18 (45.72)	GR	A3CCG-4418G-ND †	7.79	63.45
	Gold	36 (91.44)	MC	A3CCG-4436M-ND †	9.94	80.97
	Gold	36 (91.44)	GR	A3CCG-4436G-ND †	8.93	72.70
50	Gold	6 (15.24)	MC	A3AAG-5006M-ND	8.83	71.91
	Gold	6 (15.24)	GR	A3AAG-5006G-ND	8.43	68.66
	Gold	18 (45.72)	MC	A3AAG-5018M-ND	10.02	81.55
	Gold	18 (45.72)	GR	A3AAG-5018G-ND	9.56	77.83
	Gold	36 (91.44)	MC	A3AAG-5036M-ND	12.07	98.29
	Gold	36 (91.44)	GR	A3AAG-5036G-ND	10.79	87.90
60	Gold	6 (15.24)	MC	A3AAG-6006M-ND	11.02	89.76
	Gold	6 (15.24)	GR	A3AAG-6006G-ND	10.77	87.70
	Gold	18 (45.72)	MC	A3AAG-6018M-ND	12.66	103.08
	Gold	18 (45.72)	GR	A3AAG-6018G-ND	11.90	96.91
	Gold	36 (91.44)	MC	A3AAG-6036M-ND	15.11	123.07
	Gold	36 (91.44)	GR	A3AAG-6036G-ND	13.60	110.73
64	Gold	6 (15.24)	MC	A3AAG-6406M-ND	10.17	82.83
	Gold	6 (15.24)	GR	A3AAG-6406G-ND	11.79	96.02
	Gold	18 (45.72)	MC	A3AAG-6418M-ND	11.81	96.16
	Gold	18 (45.72)	GR	A3AAG-6418G-ND	13.96	113.69
	Gold	36 (91.44)	MC	A3AAG-6436M-ND	14.26	116.14
	Gold	36 (91.44)	GR	A3AAG-6436G-ND	12.57	102.34

Also available in the following versions:
A3AA□-□□□□□-ND — Socket Connector
A3BB□-□□□□□-ND — Socket Connector with Strain Relief.
A3CC□-□□□□□-ND — Socket Connector with Central Polarizing Key.
A3DD□-□□□□□-ND — Socket Connector w/Strain Relief & Central Polarizing Key.

† *The 44 position available only with central polarizing key.*
Call for complete part number and pricing!

NEW! Socket Connector to Pin Connector

***** MC = Multi-Color GR = Gray



No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	6 (15.24)	MC	A3AKA-1006M-ND	6.40	52.09
	Gold	6 (15.24)	GR	A3AKA-1006G-ND	6.35	51.74
	Gold	18 (45.72)	MC	A3AKA-1018M-ND	6.67	54.31
	Gold	18 (45.72)	GR	A3AKA-1018G-ND	6.54	53.27
	Gold	36 (91.44)	MC	A3AKA-1036M-ND	7.08	57.65
	Gold	36 (91.44)	GR	A3AKA-1036G-ND	6.82	55.55
14	Gold	6 (15.24)	MC	A3AKA-1406M-ND	10.94	89.06
	Gold	6 (15.24)	GR	A3AKA-1406G-ND	10.88	88.58
	Gold	18 (45.72)	MC	A3AKA-1418M-ND	11.32	92.18
	Gold	18 (45.72)	GR	A3AKA-1418G-ND	11.14	90.75
	Gold	36 (91.44)	MC	A3AKA-1436M-ND	11.90	96.86
	Gold	36 (91.44)	GR	A3AKA-1436G-ND	11.54	94.00
16	Gold	6 (15.24)	MC	A3AKA-1606M-ND	7.55	61.48
	Gold	6 (15.24)	GR	A3AKA-1606G-ND	7.48	60.92
	Gold	18 (45.72)	MC	A3AKA-1618M-ND	7.99	65.04
	Gold	18 (45.72)	GR	A3AKA-1618G-ND	7.78	63.37
	Gold	36 (91.44)	MC	A3AKA-1636M-ND	8.64	70.38

(Continued)

Termination Jumpers

Socket Connector to Pin Connector *(Cont.)*

No. of Con- tacts	Conn. Finish	Length In. (cm)	Rib- bon* Cable	Digi-Key Part No.	Pricing 1	10
16	Gold	36 (91.44)	GR	A3AKA-1636G-ND	8.23	67.05
20	Gold	6 (15.24)	MC	A3AKA-2006M-ND	8.07	65.75
	Gold	6 (15.24)	GR	A3AKA-2006G-ND	7.99	65.06
	Gold	18 (45.72)	MC	A3AKA-2018M-ND	8.62	70.21
	Gold	18 (45.72)	GR	A3AKA-2018G-ND	8.37	68.14
	Gold	36 (91.44)	MC	A3AKA-2036M-ND	9.44	76.90
	Gold	36 (91.44)	GR	A3AKA-2036G-ND	8.93	72.76
24	Gold	6 (15.24)	MC	A3AKA-2406M-ND	13.15	107.04
	Gold	6 (15.24)	GR	A3AKA-2406G-ND	13.04	106.20
	Gold	18 (45.72)	MC	A3AKA-2418M-ND	13.80	112.40
	Gold	18 (45.72)	GR	A3AKA-2418G-ND	13.49	109.87
	Gold	36 (91.44)	MC	A3AKA-2436M-ND	14.79	120.43
	Gold	36 (91.44)	GR	A3AKA-2436G-ND	14.17	115.39
26	Gold	6 (15.24)	MC	A3AKA-2606M-ND	13.70	111.58
	Gold	6 (15.24)	GR	A3AKA-2606G-ND	13.59	110.69
	Gold	18 (45.72)	MC	A3AKA-2618M-ND	14.41	117.37
	Gold	18 (45.72)	GR	A3AKA-2618G-ND	14.09	114.71
	Gold	36 (91.44)	MC	A3AKA-2636M-ND	15.48	126.06
	Gold	36 (91.44)	GR	A3AKA-2636G-ND	14.83	120.73
30	Gold	6 (15.24)	MC	A3AKA-3006M-ND	14.56	118.58
	Gold	6 (15.24)	GR	A3AKA-3006G-ND	14.45	117.69
	Gold	18 (45.72)	MC	A3AKA-3018M-ND	15.27	124.37
	Gold	18 (45.72)	GR	A3AKA-3018G-ND	14.95	121.71
	Gold	36 (91.44)	MC	A3AKA-3036M-ND	16.34	133.06
	Gold	36 (91.44)	GR	A3AKA-3036G-ND	15.69	127.73
34	Gold	6 (15.24)	MC	A3AKA-3406M-ND	10.52	85.62
	Gold	6 (15.24)	GR	A3AKA-3406G-ND	10.37	84.47
	Gold	18 (45.72)	MC	A3AKA-3418M-ND	11.44	93.18
	Gold	18 (45.72)	GR	A3AKA-3418G-ND	11.02	89.71
	Gold	36 (91.44)	MC	A3AKA-3436M-ND	12.83	104.50
	Gold	36 (91.44)	GR	A3AKA-3436G-ND	11.98	97.58
40	Gold	6 (15.24)	MC	A3AKA-4006M-ND	17.09	139.20
	Gold	6 (15.24)	GR	A3AKA-4006G-ND	16.92	137.82
	Gold	18 (45.72)	MC	A3AKA-4018M-ND	18.19	148.12
	Gold	18 (45.72)	GR	A3AKA-4018G-ND	17.68	143.98
	Gold	36 (91.44)	MC	A3AKA-4036M-ND	19.83	161.50
	Gold	36 (91.44)	GR	A3AKA-4036G-ND	18.82	153.23
44	Gold	6 (15.24)	MC	A3CKA-4406M-ND †	18.53	150.88
	Gold	6 (15.24)	GR	A3CKA-4406G-ND †	18.36	149.51
	Gold	18 (45.72)	MC	A3CKA-4418M-ND †	19.63	159.80
	Gold	18 (45.72)	GR	A3CKA-4418G-ND †	19.12	155.67
	Gold	36 (91.44)	MC	A3CKA-4436M-ND †	21.27	173.18
	Gold	36 (91.44)	GR	A3CKA-4436G-ND †	20.25	164.91
50	Gold	6 (15.24)	MC	A3AKA-5006M-ND	13.57	110.51
	Gold	6 (15.24)	GR	A3AKA-5006G-ND	13.36	108.78
	Gold	18 (45.72)	MC	A3AKA-5018M-ND	14.94	121.67
	Gold	18 (45.72)	GR	A3AKA-5018G-ND	14.30	116.48
	Gold	36 (91.44)	MC	A3AKA-5036M-ND	17.00	138.41
	Gold	36 (91.44)	GR	A3AKA-5036G-ND	15.72	128.02
60	Gold	6 (15.24)	MC	A3AKA-6006M-ND	22.48	183.05
	Gold	6 (15.24)	GR	A3AKA-6006G-ND	22.23	181.00
	Gold	18 (45.72)	MC	A3AKA-6018M-ND	24.12	196.38
	Gold	18 (45.72)	GR	A3AKA-6018G-ND	23.36	190.21
	Gold	36 (91.44)	MC	A3AKA-6036M-ND	26.57	216.36
	Gold	36 (91.44)	GR	A3AKA-6036G-ND	25.06	204.03
64	Gold	6 (15.24)	MC	A3AKA-6406M-ND	23.69	192.91
	Gold	6 (15.24)	GR	A3AKA-6406G-ND	23.44	190.85
	Gold	18 (45.72)	MC	A3AKA-6418M-ND	25.33	206.23
	Gold	18 (45.72)	GR	A3AKA-6418G-ND	24.57	200.07
	Gold	36 (91.44)	MC	A3AKA-6436M-ND	27.78	226.22
	Gold	36 (91.44)	MC	A3AKA-6436G-ND	26.27	213.89

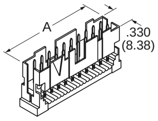
Also available in the following versions:
A3BKA-□□□□□-ND — Socket Connector with Strain Relief.
A3CKA-□□□□□-ND — Socket Connector with Central Polarizing Key.
A3DKA-□□□□□-ND — Socket Connector w/Strain Relief & Central Polarizing Key.

† *The 44 position available only with central polarizing key.*
Call for complete part number and pricing!

Pin Connectors

Material and Finish:

- **Housing & Cover:** Black thermoplastic, 94V-0 rated



Electrical Characteristics:

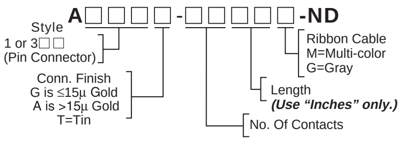
- **Contact Current Rating**: 1 Amp.
- **Dielectric Withstanding Voltage:** Pin connectors 500 Volts, RMS.
- **Contacts:** Phosphor Bronze, duplex plated 30µ” AU pin end; .000100-.000200 bright tin-lead on cable termination end; entire contact underplated with 30µ” gold over nickel

Specifications:

- **Operating Temperature:** -55°C to +105°C

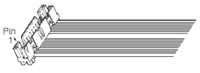
Recognized under Component Program of Underwriters Laboratories Inc. File No. E28476.
Certified by Canadian Standards Association File No. LR16455.

No. of Contacts	Contact Finish	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	AMP Part No.
NEW! Pin Connectors (Strain Reliefs Sold Separately) NEW!						
10	30µ” AU	1.072 (27.23)	APK10A-ND	4.55	40.95	111446-1
14	30µ” AU	1.272 (32.31)	APK14A-ND	8.32	74.88	111446-2
16	30µ” AU	1.372 (34.85)	APK16A-ND	5.07	45.63	111446-3
20	30µ” AU	1.572 (39.93)	APK20A-ND	5.43	48.85	111446-4
24	30µ” AU	1.772 (45.01)	APK24A-ND	9.85	88.63	111446-5
26	30µ” AU	1.872 (47.55)	APK26A-ND	10.24	92.14	111446-6
30	30µ” AU	2.072 (52.63)	APK30A-ND	10.82	97.40	111446-7
34	30µ” AU	2.272 (57.71)	APK34A-ND	6.73	60.55	111446-8
40	30µ” AU	2.572 (65.33)	APK40A-ND	12.29	110.57	111446-9
44	30µ” AU	2.772 (70.41)	APK44A-ND	13.07	117.59	1-111446-0
50	30µ” AU	3.072 (78.03)	APK50A-ND	8.26	74.30	1-111446-1
60	30µ” AU	3.527 (89.59)	APK60A-ND	15.54	139.82	1-111446-2
64	30µ” AU	3.772 (95.81)	APK64A-ND	16.19	145.67	1-111446-3
Strain Reliefs For Pin Connectors						
10	—	—	APSR10-ND	3.67	33.03	111547-1
14	—	—	APSR14-ND	3.68	33.13	111547-2
16	—	—	APSR16-ND	3.65	32.87	111547-3
20	—	—	APSR20-ND	3.67	33.00	111547-4
24	—	—	APSR24-ND	3.67	33.06	111547-5
26	—	—	APSR26-ND	3.68	33.10	111547-6
30	—	—	APSR30-ND	3.82	34.40	111547-7
34	—	—	APSR34-ND	3.97	35.70	111547-8
40	—	—	APSR40-ND	3.71	33.40	111547-9
44	—	—	APSR44-ND	3.73	33.55	1-111547-0
50	—	—	APSR50-ND	3.74	33.70	1-111547-1
Snap-In Polarizer						
For Pin Conn., Univ. Pin, Pinless Headers & Low Profile Pin Headers			A24195-ND	1.12	10.08	499991-2



NEW! Pin Connector — Single Ended

***** MC = Multi-Color
GR = Gray

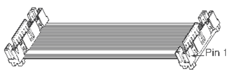


No. of Con- tacts	Conn. Finish	Length In. (cm)	Rib- bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	36 (91.44)	MC	A1KXA-1036M-ND	5.72	46.57
	Gold	36 (91.44)	GR	A1KXA-1036G-ND	5.46	44.47
14	Gold	36 (91.44)	MC	A1KXA-1436M-ND	10.11	82.32
	Gold	36 (91.44)	GR	A1KXA-1436G-ND	9.76	79.46
16	Gold	36 (91.44)	MC	A1KXA-1636M-ND	6.77	55.15
	Gold	36 (91.44)	GR	A1KXA-1636G-ND	6.36	51.81
20	Gold	36 (91.44)	MC	A1KXA-2036M-ND	7.49	60.98
	Gold	36 (91.44)	GR	A1KXA-2036G-ND	6.98	56.83
24	Gold	36 (91.44)	MC	A1KXA-2436M-ND	12.58	102.43
	Gold	36 (91.44)	GC	A1KXA-2436G-ND	12.58	102.43
26	Gold	36 (91.44)	MC	A1KXA-2636M-ND	13.16	107.15
	Gold	36 (91.44)	GR	A1KXA-2636G-ND	12.51	101.83
30	Gold	36 (91.44)	MC	A1KXA-3036M-ND	13.79	112.28
	Gold	36 (91.44)	GC	A1KXA-3036G-ND	13.14	106.96
34	Gold	36 (91.44)	MC	A1KXA-3436M-ND	10.03	81.65
	Gold	36 (91.44)	GR	A1KXA-3436G-ND	9.18	74.73
40	Gold	36 (91.44)	MC	A1KXA-4036M-ND	16.52	134.49
	Gold	36 (91.44)	GR	A1KXA-4036G-ND	15.50	126.22
44	Gold	36 (91.44)	MC	A1KXA-4436M-ND	17.36	141.33
	Gold	36 (91.44)	GC	A1KXA-4436G-ND	16.34	133.06
50	Gold	36 (91.44)	MC	A1KXA-5036M-ND	13.00	105.86
	Gold	36 (91.44)	GC	A1KXA-5036G-ND	11.73	95.48
60	Gold	36 (91.44)	MC	A1KXA-6036M-ND	21.64	176.20
	Gold	36 (91.44)	GR	A1KXA-6036G-ND	20.12	163.87
64	Gold	36 (91.44)	MC	A1KXA-6436M-ND	22.34	181.90
	Gold	36 (91.44)	GC	A1KXA-6436G-ND	20.82	169.57

Also available in the following version:
A1RXA-□□□□□-ND — Pin Connector w/Strain Relief & Polarizing Key.
Call for complete part number and pricing!

NEW! Pin Connector to Pin Connector

***** MC = Multi-Color
GR = Gray

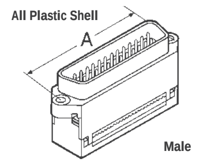


No. of Con- tacts	Conn. Finish	Length In. (cm)	Rib- bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	6 (15.24)	MC	A3KKA-1006M-ND	9.94	80.91
	Gold	6 (15.24)	GR	A3KKA-1006G-ND	9.89	80.56
	Gold	18 (45.72)	MC	A3KKA-1018M-ND	10.21	83.13
	Gold	18 (45.72)	GR	A3KKA-1018G-ND	10.08	82.09
	Gold	36 (91.44)	MC	A3KKA-1036M-ND	10.62	86.47
	Gold	36 (91.44)	GR	A3KKA-1036G-ND	10.36	84.37
14	Gold	6 (15.24)	MC	A3KKA-1406M-ND	18.11	147.48
	Gold	6 (15.24)	GR	A3KKA-1406G-ND	18.05	147.00
	Gold	18 (45.72)	MC	A3KKA-1418M-ND	18.49	150.60
	Gold	18 (45.72)	GR	A3KKA-1418G-ND	18.32	149.17
	Gold	36 (91.44)	MC	A3KKA-1436M-ND	19.07	155.28
	Gold	36 (91.44)	GR	A3KKA-1436G-ND	18.72	152.42
16	Gold	6 (15.24)	MC	A3KKA-1606M-ND	11.14	90.70
	Gold	6 (15.24)	GR	A3KKA-1606G-ND	11.07	90.15
	Gold	18 (45.72)	MC	A3KKA-1618M-ND	11.58	94.26
	Gold	18 (45.72)	GR	A3KKA-1618G-ND	11.37	92.60
	Gold	36 (91.44)	MC	A3KKA-1636M-ND	12.23	99.61
	Gold	36 (91.44)	GR	A3KKA-1636G-ND	11.82	96.27
20	Gold	6 (15.24)	MC	A3KKA-2006M-ND	11.96	97.42
	Gold	6 (15.24)	GR	A3KKA-2006G-ND	11.88	96.73
	Gold	18 (45.72)	MC	A3KKA-2018M-ND	12.51	101.88
	Gold	18 (45.72)	GR	A3KKA-2018G-ND	12.26	99.81
	Gold	36 (91.44)	MC	A3KKA-2036M-ND	13.33	108.57
	Gold	36 (91.44)	GR	A3KKA-2036G-ND	12.82	104.42
24	Gold	6 (15.24)	MC	A3KKA-2406M-ND	21.54	175.39
	Gold	6 (15.24)	GR	A3KKA-2406G-ND	21.44	174.55
	Gold	18 (45.72)	MC	A3KKA-2418M-ND	22.20	180.75
	Gold	18 (45.72)	GR	A3KKA-2418G-ND	21.89	178.22
	Gold	36 (91.44)	MC	A3KKA-2436M-ND	23.18	188.78
	Gold	36 (91.44)	GR	A3KKA-2436G-ND	22.56	183.74
26	Gold	6 (15.24)	MC	A3KKA-2606M-ND	22.41	182.45
	Gold	6 (15.24)	GR	A3KKA-2606G-ND	22.30	181.56
	Gold	18 (45.72)	MC	A3KKA-2618M-ND	23.12	188.24
	Gold	18 (45.72)	GR	A3KKA-2618G-ND	22.79	185.58
	Gold	36 (91.44)	MC	A3KKA-2636M-ND	24.18	196.93
	Gold	36 (91.44)	GR	A3KKA-2636G-ND	23.53	191.61
30	Gold	6 (15.24)	MC	A3KKA-3006M-ND	23.67	192.71
	Gold	6 (15.24)	GR	A3KKA-3006G-ND	23.56	191.82
	Gold	18 (45.72)	MC	A3KKA-3018M-ND	24.38	198.50
	Gold	18 (45.72)	GR	A3KKA-3018G-ND	24.05	195.84
	Gold	36 (91.44)	MC	A3KKA-3036M-ND	25.44	207.19
	Gold	36 (91.44)	GR	A3KKA-3036G-ND	24.79	201.87
34	Gold	6 (15.24)	MC	A3KKA-3406M-ND	14.95	121.77
	Gold	6 (15.24)	GR	A3KKA-3406G-ND	14.81	120.61
	Gold	18 (45.72)	MC	A3KKA-3418M-ND	15.88	129.32
	Gold	18 (45.72)	GR	A3KKA-3418G-ND	15.46	125.86
	Gold	36 (91.44)	MC	A3KKA-3436M-ND	17.27	140.65
	Gold	36 (91.44)	GR	A3KKA-3436G-ND	16.42	133.72
40	Gold	6 (15.24)	MC	A3KKA-4006M-ND	27.01	219.92
	Gold	6 (15.24)	GR	A3KKA-4006G-ND	26.84	218.54
	Gold	18 (45.72)	MC	A3KKA-4018M-ND	28.10	228.84
	Gold	18 (45.72)	GR	A3KKA-4018G-ND	27.60	224.70
	Gold	36 (91.44)	MC	A3KKA-4036M-ND	29.75	242.22
	Gold	36 (91.44)	GR	A3KKA-4036G-ND	28.73	233.95
44	Gold	6 (15.24)	MC	A3KKA-4406M-ND	28.69	233.60
	Gold	6 (15.24)	GR	A3KKA-4406G-ND	28.52	232.22
	Gold	18 (45.72)	MC	A3KKA-4418M-ND	29.78	242.52
	Gold	18 (45.72)	GR	A3KKA-4418G-ND	29.28	238.38
	Gold	36 (91.44)	MC	A3KKA-4436M-ND	31.43	255.90
	Gold	36 (91.44)	GR	A3KKA-4436G-ND	30.41	247.63
50	Gold	6 (15.24)	MC	A3KKA-5006M-ND	18.47	150.36
	Gold	6 (15.24)	GR	A3KKA-5006G-ND	18.25	148.63
	Gold	18 (45.72)	MC	A3KKA-5018M-ND	19.84	161.52
	Gold	18 (45.72)	GR	A3KKA-5018G-ND	19.20	156.32
	Gold	36 (91.44)	MC	A3KKA-5036M-ND	21.89	178.25
	Gold	36 (91.44)	GR	A3KKA-5036G-ND	20.62	167.87
60	Gold	6 (15.24)	MC	A3KKA-6006M-ND	34.28	279.12
	Gold	6 (15.24)	GR	A3KKA-6006G-ND	34.03	277.07
	Gold	18 (45.72)	MC	A3KKA-6018M-ND	35.91	292.45
	Gold	18 (45.72)	GR	A3KKA-6018G-ND	35.16	286.28
	Gold	36 (91.44)	MC	A3KKA-6036M-ND	38.37	312.43
	Gold	36 (91.44)	GR	A3KKA-6036G-ND	36.85	300.10
64	Gold	6 (15.24)	MC	A3KKA-6406M-ND	35.68	290.52
	Gold	6 (15.24)	GR	A3KKA-6406G-ND	35.43	288.47
	Gold	18 (45.72)	MC	A3KKA-6418M-ND	37.31	303.85
	Gold	18 (45.72)	GR	A3KKA-6418G-ND	36.56	297.68
	Gold	36 (91.44)	MC	A3KKA-6436M-ND	39.77	323.83
	Gold	36 (91.44)	GR	A3KKA-6436G-ND	38.25	311.50

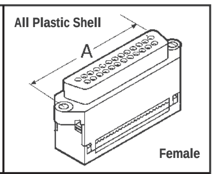
Also available in the following version:
A3RRA-□□□□□-ND — Pin Connector w/Strain Relief & Polarizing Key.
Call for complete part number and pricing!

CW INDUSTRIES

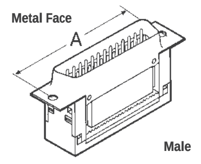
D-Subminiature Connectors


All Plastic Shell

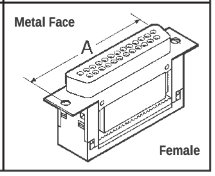
Male


All Plastic Shell

Female


Metal Face

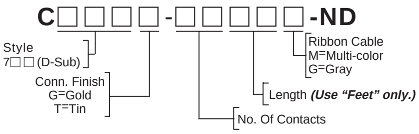
Male


Metal Face

Female

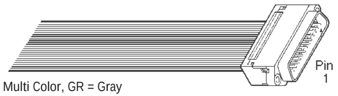
Specifications: • Contacts: phosphor bronze • Contact Plating: Gold –10µ in. gold (in mating area) over 50µ in. nickel; Tin -100µ in. tin-lead • Insulator material: UL 94V-0 flame-retardant thermoplastic • Cover pull-off force 226.79 grams/contact minimum (force applied along contacts' primary axis) • Withdrawal force 56.70g – 226.79g/contact, typical • Color: blue • Operating temp.: –55° to +125°C • Current 1A (max.) per contact • Dielectric Withstand Voltage: 500Vdc (sea level) • Insulation resistance: 5 x 10^9 ohms

No. of Contacts	Contact Finish	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	100
Male D-Subminiature Connectors, Plastic Shell						
9	Gold	.984 (24.99)	CMP09G-ND	3.35	25.38	194.40
9	Tin	.984 (24.99)	CMP09T-ND	2.85	21.62	165.60
15	Gold	1.312 (33.32)	CMP15G-ND	4.40	33.37	255.60
15	Tin	1.312 (33.32)	CMP15T-ND	3.75	28.44	217.80
25	Gold	1.852 (47.04)	CMP25G-ND	5.92	44.89	343.80
25	Tin	1.852 (47.04)	CMP25T-ND	5.02	38.07	291.60
37	Gold	2.500 (63.50)	CMP37G-ND	8.74	66.27	507.60
37	Tin	2.500 (63.50)	CMP37T-ND	7.44	56.40	432.00
Female D-Subminiature Connectors, Plastic Shell						
9	Gold	.984 (24.99)	CFP09G-ND	3.84	29.14	223.20
9	Tin	.984 (24.99)	CFP09T-ND	3.26	24.68	189.00
15	Gold	1.312 (33.32)	CFP15G-ND	5.02	38.07	291.60
15	Tin	1.312 (33.32)	CFP15T-ND	4.28	32.43	248.40
25	Gold	1.852 (47.04)	CFP25G-ND	6.82	51.70	396.00
25	Tin	1.852 (47.04)	CFP25T-ND	5.80	43.95	336.60
37	Gold	2.500 (63.50)	CFP37G-ND	10.08	76.38	585.00
37	Tin	2.500 (63.50)	CFP37T-ND	8.56	64.86	496.80
Male D-Subminiature Connectors, Metal Face						
9	Gold	.984 (24.99)	CMM09G-ND	3.66	27.73	212.40
9	Tin	.984 (24.99)	CMM09T-ND	3.11	23.57	180.54
15	Gold	1.312 (33.32)	CMM15G-ND	4.81	36.43	279.00
15	Tin	1.312 (33.32)	CMM15T-ND	4.08	30.96	237.15
25	Gold	1.852 (47.04)	CMM25G-ND	6.51	49.35	378.00
25	Tin	1.852 (47.04)	CMM25T-ND	5.53	41.95	321.30
37	Gold	2.500 (63.50)	CMM37G-ND	9.64	73.09	559.80
37	Tin	2.500 (63.50)	CMM37T-ND	8.19	62.12	475.83
Female D-Subminiature Connectors, Metal Face						
9	Gold	.984 (24.99)	CFM09G-ND	4.25	32.20	246.60
9	Tin	.984 (24.99)	CFM09T-ND	3.61	27.37	209.61
15	Gold	1.312 (33.32)	CFM15G-ND	5.52	41.83	320.40
15	Tin	1.312 (33.32)	CFM15T-ND	4.69	35.56	272.34
25	Gold	1.852 (47.04)	CFM25G-ND	7.47	56.64	433.80
25	Tin	1.852 (47.04)	CFM25T-ND	6.35	48.14	368.73
37	Gold	2.500 (63.50)	CFM37G-ND	11.10	84.13	644.40
37	Tin	2.500 (63.50)	CFM37T-ND	9.43	71.51	547.74



D-Subminiature Cable Assemblies

Single Ended — Male

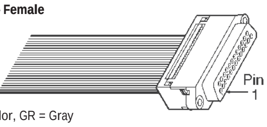


* MC = Multi Color, GR = Gray

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MXG-0906M-ND	4.65	35.21
	Tin	6 (1.83)	MC	C7MXT-0906M-ND	4.14	31.41
	Gold	6 (1.83)	GR	C7MXG-0906G-ND	4.41	33.45
	Tin	6 (1.83)	GR	C7MXT-0906G-ND	3.91	29.65
	Gold	10 (3.05)	MC	C7MXG-0910M-ND	5.51	41.77
	Tin	10 (3.05)	MC	C7MXT-0910M-ND	5.01	37.96
	Gold	10 (3.05)	GR	C7MXG-0910G-ND	5.12	38.83
	Tin	10 (3.05)	GR	C7MXT-0910G-ND	4.62	35.03
15	Gold	6 (1.83)	MC	C7MXG-1506M-ND	6.73	51.00
	Tin	6 (1.83)	MC	C7MXT-1506M-ND	6.07	45.99
	Gold	6 (1.83)	GR	C7MXG-1506G-ND	6.00	45.50
	Tin	6 (1.83)	GR	C7MXT-1506G-ND	5.34	40.49
	Gold	10 (3.05)	MC	C7MXG-1510M-ND	8.28	62.75
	Tin	10 (3.05)	MC	C7MXT-1510M-ND	7.62	57.74
	Gold	10 (3.05)	GR	C7MXG-1510G-ND	7.07	53.58
	Tin	10 (3.05)	GR	C7MXT-1510G-ND	6.41	48.57
25	Gold	6 (1.83)	MC	C7MXG-2506M-ND	9.57	72.56
	Tin	6 (1.83)	MC	C7MXT-2506M-ND	8.68	65.82
	Gold	6 (1.83)	GR	C7MXG-2506G-ND	8.54	64.77
	Tin	6 (1.83)	GR	C7MXT-2506G-ND	7.66	58.03
	Gold	10 (3.05)	MC	C7MXG-2510M-ND	12.00	91.00
	Tin	10 (3.05)	MC	C7MXT-2510M-ND	11.12	84.27
	Gold	10 (3.05)	GR	C7MXG-2510G-ND	10.29	78.02
	Tin	10 (3.05)	GR	C7MXT-2510G-ND	9.40	71.29
37	Gold	6 (1.83)	MC	C7MXG-3706M-ND	14.08	106.77
	Tin	6 (1.83)	MC	C7MXT-3706M-ND	12.77	96.83
	Gold	6 (1.83)	GR	C7MXG-3706G-ND	12.76	96.76
	Tin	6 (1.83)	GR	C7MXT-3706G-ND	11.45	86.82
	Gold	10 (3.05)	MC	C7MXG-3710M-ND	17.65	133.77
	Tin	10 (3.05)	MC	C7MXT-3710M-ND	16.34	123.83
	Gold	10 (3.05)	GR	C7MXG-3710G-ND	15.45	117.09
	Tin	10 (3.05)	GR	C7MXT-3710G-ND	14.13	107.15

Also available in the following configuration:
C7PX□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Single Ended — Female

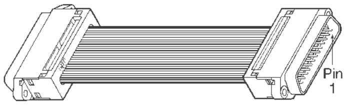


* MC = Multi-Color, GR = Gray

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7FXG-0906M-ND	5.14	38.97
	Tin	6 (1.83)	MC	C7FXT-0906M-ND	4.56	34.60
	Gold	6 (1.83)	GR	C7FXG-0906G-ND	4.91	37.21
	Tin	6 (1.83)	GR	C7FXT-0906G-ND	4.33	32.84
	Gold	10 (3.05)	MC	C7FXG-0910M-ND	6.01	45.53
	Tin	10 (3.05)	MC	C7FXT-0910M-ND	5.43	41.16
	Gold	10 (3.05)	GR	C7FXG-0910G-ND	5.62	42.59
	Tin	10 (3.05)	GR	C7FXT-0910G-ND	5.04	38.22
15	Gold	6 (1.83)	MC	C7FXG-1506M-ND	7.35	55.70
	Tin	6 (1.83)	MC	C7FXT-1506M-ND	6.59	49.98
	Gold	6 (1.83)	GR	C7FXG-1506G-ND	6.62	50.20
	Tin	6 (1.83)	GR	C7FXT-1506G-ND	5.87	44.49
	Gold	10 (3.05)	MC	C7FXG-1510M-ND	8.90	67.45
	Tin	10 (3.05)	MC	C7FXT-1510M-ND	8.14	61.73
	Gold	10 (3.05)	GR	C7FXG-1510G-ND	7.69	58.28
	Tin	10 (3.05)	GR	C7FXT-1510G-ND	6.93	52.57
25	Gold	6 (1.83)	MC	C7FXG-2506M-ND	10.47	79.37
	Tin	6 (1.83)	MC	C7FXT-2506M-ND	9.45	71.62
	Gold	6 (1.83)	GR	C7FXG-2506G-ND	9.44	71.58
	Tin	6 (1.83)	GR	C7FXT-2506G-ND	8.42	63.83
	Gold	10 (3.05)	MC	C7FXG-2510M-ND	12.90	97.82
	Tin	10 (3.05)	MC	C7FXT-2510M-ND	11.88	90.06
	Gold	10 (3.05)	GR	C7FXG-2510G-ND	11.19	84.84
	Tin	10 (3.05)	GR	C7FXT-2510G-ND	10.17	77.08
37	Gold	6 (1.83)	MC	C7FXG-3706M-ND	15.42	116.88
	Tin	6 (1.83)	MC	C7FXT-3706M-ND	13.91	105.42
	Gold	6 (1.83)	GR	C7FXG-3706G-ND	14.10	106.87
	Tin	6 (1.83)	GR	C7FXT-3706G-ND	12.59	95.41
	Gold	10 (3.05)	MC	C7FXG-3710M-ND	18.98	143.88
	Tin	10 (3.05)	MC	C7FXT-3710M-ND	17.47	132.42
	Gold	10 (3.05)	GR	C7FXG-3710G-ND	16.78	127.19
	Tin	10 (3.05)	GR	C7FXT-3710G-ND	15.27	115.74

Also available in the following configuration:
C7SX□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Male to Male

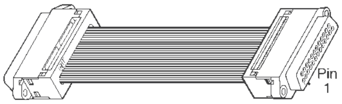


* MC = Multi-Color, GR = Gray

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MMG-0906M-ND	7.99	60.59
	Tin	6 (1.83)	MC	C7MMT-0906M-ND	6.99	52.98
	Gold	6 (1.83)	GR	C7MMG-0906G-ND	7.76	58.83
	Tin	6 (1.83)	GR	C7MMT-0906G-ND	6.76	51.22
	Gold	10 (3.05)	MC	C7MMG-0910M-ND	8.86	67.15
	Tin	10 (3.05)	MC	C7MMT-0910M-ND	7.85	59.54
	Gold	10 (3.05)	GR	C7MMG-0910G-ND	8.47	64.21
	Tin	10 (3.05)	GR	C7MMT-0910G-ND	7.47	56.60
15	Gold	6 (1.83)	MC	C7MMG-1506M-ND	11.13	84.37
	Tin	6 (1.83)	MC	C7MMT-1506M-ND	9.81	74.35
	Gold	6 (1.83)	GR	C7MMG-1506G-ND	10.40	78.87
	Tin	6 (1.83)	GR	C7MMT-1506G-ND	9.08	68.86
	Gold	10 (3.05)	MC	C7MMG-1510M-ND	12.68	96.12
	Tin	10 (3.05)	MC	C7MMT-1510M-ND	11.36	86.10
	Gold	10 (3.05)	GR	C7MMG-1510G-ND	11.47	86.95
	Tin	10 (3.05)	GR	C7MMT-1510G-ND	10.15	76.94
25	Gold	6 (1.83)	MC	C7MMG-2506M-ND	15.49	117.44
	Tin	6 (1.83)	MC	C7MMT-2506M-ND	13.72	103.98
	Gold	6 (1.83)	GR	C7MMG-2506G-ND	14.46	109.65
	Tin	6 (1.83)	GR	C7MMT-2506G-ND	12.69	96.19
	Gold	10 (3.05)	MC	C7MMG-2510M-ND	17.93	135.89
	Tin	10 (3.05)	MC	C7MMT-2510M-ND	16.15	122.42
	Gold	10 (3.05)	GR	C7MMG-2510G-ND	16.21	122.91
	Tin	10 (3.05)	GR	C7MMT-2510G-ND	14.44	109.44
37	Gold	6 (1.83)	MC	C7MMG-3706M-ND	22.83	173.04
	Tin	6 (1.83)	MC	C7MMT-3706M-ND	20.20	153.16
	Gold	6 (1.83)	GR	C7MMG-3706G-ND	21.51	163.03
	Tin	6 (1.83)	GR	C7MMT-3706G-ND	18.88	143.15
	Gold	10 (3.05)	MC	C7MMG-3710M-ND	26.39	200.04
	Tin	10 (3.05)	MC	C7MMT-3710M-ND	23.77	180.16
	Gold	10 (3.05)	GR	C7MMG-3710G-ND	24.19	183.36
	Tin	10 (3.05)	GR	C7MMT-3710G-ND	21.57	163.48

Also available in the following configuration:
C7PP□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Female to Female

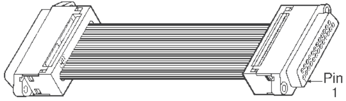


* MC = Multi-Color, GR = Gray

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7FFG-0906M-ND	8.99	68.11
	Tin	6 (1.83)	MC	C7FFT-0906M-ND	7.83	59.37
	Gold	6 (1.83)	GR	C7FFG-0906G-ND	8.75	66.35
	Tin	6 (1.83)	GR	C7FFT-0906G-ND	7.60	57.61
	Gold	10 (3.05)	MC	C7FFG-0910M-ND	9.85	74.67
	Tin	10 (3.05)	MC	C7FFT-0910M-ND	8.70	65.93
	Gold	10 (3.05)	GR	C7FFG-0910G-ND	9.46	71.73
	Tin	10 (3.05)	GR	C7FFT-0910G-ND	8.31	62.99
15	Gold	6 (1.83)	MC	C7FFG-1506M-ND	12.37	93.77
	Tin	6 (1.83)	MC	C7FFT-1506M-ND	10.86	82.34
	Gold	6 (1.83)	GR	C7FFG-1506G-ND	11.64	88.27
	Tin	6 (1.83)	GR	C7FFT-1506G-ND	10.14	76.85
	Gold	10 (3.05)	MC	C7FFG-1510M-ND	13.92	105.52
	Tin	10 (3.05)	MC	C7FFT-1510M-ND	12.41	94.09
	Gold	10 (3.05)	GR	C7FFG-1510G-ND	12.71	96.35
	Tin	10 (3.05)	GR	C7FFT-1510G-ND	11.20	84.93
25	Gold	6 (1.83)	MC	C7FFG-2506M-ND	17.30	131.15
	Tin	6 (1.83)	MC	C7FFT-2506M-ND	15.24	115.56
	Gold	6 (1.83)	GR	C7FFG-2506G-ND	16.26	123.28
	Tin	6 (1.83)	GR	C7FFT-2506G-ND	14.22	107.77
	Gold	10 (3.05)	MC	C7FFG-2510M-ND	19.72	149.52
	Tin	10 (3.05)	MC	C7FFT-2510M-ND	17.68	134.01
	Gold	10 (3.05)	GR	C7FFG-2510G-ND	18.01	136.54
	Tin	10 (3.05)	GR	C7FFT-2510G-ND	15.97	121.03
37	Gold	6 (1.83)	MC	C7FFG-3706M-ND	25.49	193.25
	Tin	6 (1.83)	MC	C7FFT-3706M-ND	22.47	170.34
	Gold	6 (1.83)	GR	C7FFG-3706G-ND	24.17	183.24
	Tin	6 (1.83)	GR	C7FFT-3706G-ND	21.15	160.33
	Gold	10 (3.05)	MC	C7FFG-3710M-ND	29.05	220.25
	Tin	10 (3.05)	MC	C7FFT-3710M-ND	26.03	197.34
	Gold	10 (3.05)	GR	C7FFG-3710G-ND	26.85	203.57
	Tin	10 (3.05)	GR	C7FFT-3710G-ND	23.83	180.66

Also available in the following configuration:
C7SS□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Male to Female



* MC = Multi-Color, GR = Gray

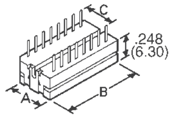
No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MFG-0906M-ND	8.49	64.35
	Tin	6 (1.83)	MC	C7MFT-0906M-ND	7.41	56.18
	Gold	6 (1.83)	GR	C7MFG-0906G-ND	8.26	62.59
	Tin	6 (1.83)	GR	C7MFT-0906G-ND	7.18	54.41
	Gold	10 (3.05)	MC	C7MFG-0910M-ND	9.35	70.91
	Tin	10 (3.05)	MC	C7MFT-0910M-ND	8.28	62.73
	Gold	10 (3.05)	GR	C7MFG-0910G-ND	8.97	67.97
	Tin	10 (3.05)	GR	C7MFT-0910G-ND	7.89	59.80
15	Gold	6 (1.83)	MC	C7MFG-1506M-ND	11.75	89.07
	Tin	6 (1.83)	MC	C7MFT-1506M-ND	10.34	78.35
	Gold	6 (1.83)	GR	C7MFG-1506G-ND	11.02	83.57
	Tin	6 (1.83)	GR	C7MFT-1506G-ND	9.61	72.85
	Gold	10 (3.05)	MC	C7MFG-1510M-ND	13.30	100.82
	Tin	10 (3.05)	MC	C7MFT-1510M-ND	11.89	90.10
	Gold	10 (3.05)	GR	C7MFG-1510G-ND	12.09	91.65
	Tin	10 (3.05)	GR	C7MFT-1510G-ND	10.68	80.93
25	Gold	6 (1.83)	MC	C7MFG-2506M-ND	16.39	124.26
	Tin	6 (1.83)	MC	C7MFT-2506M-ND	14.48	109.77
	Gold	6 (1.83)	GR	C7MFG-2506G-ND	15.36	116.47
	Tin	6 (1.83)	GR	C7MFT-2506G-ND	13.45	101.98
	Gold	10 (3.05)	MC	C7MFG-2510M-ND	18.82	142.70
	Tin	10 (3.05)	MC	C7MFT-2510M-ND	16.91	128.22
	Gold	10 (3.05)	GR	C7MFG-2510G-ND	17.11	129.72
	Tin	10 (3.05)	GR	C7MFT-2510G-ND	15.20	115.23
37	Gold	6 (1.83)	MC	C7MFG-3706M-ND	24.16	183.15
	Tin	6 (1.83)	MC	C7MFT-3706M-ND	21.34	161.75
	Gold	6 (1.83)	GR	C7MFG-3706G-ND	22.84	173.14
	Tin	6 (1.83)	GR	C7MFT-3706G-ND	20.02	151.74
	Gold	10 (3.05)	MC	C7MFG-3710M-ND	27.72	210.15
	Tin	10 (3.05)	MC	C7MFT-3710M-ND	24.90	188.75
	Gold	10 (3.05)	GR	C7MFG-3710G-ND	25.52	193.46
	Tin	10 (3.05)	GR	C7MFT-3710G-ND	22.70	172.07

Also available in the following configuration:
C7PS□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

CW INDUSTRIES

DIP Connectors

No. of Pins	Dimensions – In. (mm) A	B	C
14	.42 (10.67)	.754 (19.15)	.300 (7.62)
16	.42 (10.67)	.854 (21.69)	.300 (7.62)
24	.72 (18.29)	1.264 (32.11)	.600 (15.24)
40	.72 (18.29)	2.067 (52.50)	.600 (15.24)



SPECIFICATIONS: • **Contacts:** phosphor bronze • C**ontact Plating:** Gold – 10µ in. gold over 50µ in. nickel Tin – 100µ in. tin-lead • **Insulator Material:** UL 94V 0 retardant glass-filled thermoplastic • **Strain Relief Strap Material:** Tin-plated steel • **Color:** Blue • **Operating Temperature:** -55°C to -125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** Greater than 500Vdc at sea level • **Insulation Resistance:** Greater than 5 x 109 ohms • Mates with .050” (1.27mm) centered round conductor flat cable and standard Dip socket with .100” x .300” or .100” x .600” (2.54mm x 7.62mm or 2.54mm x 15.24mm) contact spacing • Cover pull-off force, with strain relief 20 lb. (7.46kg) minimum (force along contacts’ primary axis)

No. of Contacts	Contact Finish	Digi-Key Part No.	Pricing 1	10	100	1,000
DIP Connectors — .175” (4.44mm) Pin Length						
14	Gold	CDP14G-ND	1.61	12.22	93.60	676.00
14	Tin	CDP14T-ND	1.37	10.39	79.56	574.60
16	Gold	CDP16G-ND	1.71	12.93	99.00	715.00
16	Tin	CDP16T-ND	1.45	10.99	84.15	607.75
24	Gold	CDP24G-ND	2.82	21.39	163.80	1183.00
24	Tin	CDP24T-ND	2.40	18.18	139.23	1005.55
40	Gold	CDP40G-ND	4.06	30.79	235.80	1703.00
40	Tin	CDP40T-ND	3.45	26.17	200.43	1447.55
Strain Relief Straps For DIP Connectors						
14	—	CDSR14-ND	.16	1.18	9.00	65.00
16	—	CDSR16-ND	.19	1.41	10.80	78.00
24	—	CDSR24-ND	.22	1.65	12.60	91.00
40	—	CDSR40-ND	.25	1.88	14.40	104.00

C□□□□-□□□□□-ND

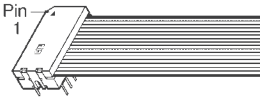
Style
2 □□ = Single-Ended
4 □□ = Single-Ended
6 □□ = Double-Ended
8 □□ = Double-Ended
0 □□ = Double-Ended

Conn. Finish
G = Gold
T = Tin

No. of Contacts

Length ***(Use “Inches” only.)***

Ribbon Cable
M = Multi-Color
G = Gray

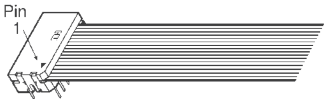


Single Ended — Style 2

* MC = Multi Color, GR = Gray

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
14	Gold	6 (15.24)	MC	C2PXG-1406M-ND	1.78	13.51
	Tin	6 (15.24)	MC	C2PXT-1406M-ND	1.54	11.67
	Gold	6 (15.24)	GR	C2PXG-1406G-ND	1.73	13.11
	Tin	6 (15.24)	GR	C2PXT-1406G-ND	1.49	11.28
	Gold	18 (45.72)	MC	C2PXG-1418M-ND	2.12	16.08
	Tin	18 (45.72)	MC	C2PXT-1418M-ND	1.88	14.25
	Gold	18 (45.72)	GR	C2PXG-1418G-ND	1.97	14.90
	Tin	18 (45.72)	GR	C2PXT-1418G-ND	1.72	13.07
	Gold	36 (91.44)	MC	C2PXG-1436M-ND	2.63	19.94
	Tin	36 (91.44)	MC	C2PXT-1436M-ND	2.39	18.11
	Gold	36 (91.44)	GR	C2PXG-1436G-ND	2.32	17.58
	Tin	36 (91.44)	GR	C2PXT-1436G-ND	2.08	15.75
16	Gold	6 (15.24)	MC	C2PXG-1606M-ND	1.90	14.39
	Tin	6 (15.24)	MC	C2PXT-1606M-ND	1.64	12.46
	Gold	6 (15.24)	GR	C2PXG-1606G-ND	1.84	13.94
	Tin	6 (15.24)	GR	C2PXT-1606G-ND	1.58	12.00
	Gold	18 (45.72)	MC	C2PXG-1618M-ND	2.29	17.33
	Tin	18 (45.72)	MC	C2PXT-1618M-ND	2.03	15.39
	Gold	18 (45.72)	GR	C2PXG-1618G-ND	2.10	15.96
	Tin	18 (45.72)	GR	C2PXT-1618G-ND	1.85	14.02
	Gold	36 (91.44)	MC	C2PXG-1636M-ND	2.87	21.74
	Tin	36 (91.44)	MC	C2PXT-1636M-ND	2.61	19.80
	Gold	36 (91.44)	GR	C2PXG-1636G-ND	2.50	18.99
	Tin	36 (91.44)	GR	C2PXT-1636G-ND	2.25	17.05
24	Gold	6 (15.24)	MC	C2PXG-2406M-ND	3.11	23.59
	Tin	6 (15.24)	MC	C2PXT-2406M-ND	2.69	20.39
	Gold	6 (15.24)	GR	C2PXG-2406G-ND	3.02	22.90
	Tin	6 (15.24)	GR	C2PXT-2406G-ND	2.60	19.69
	Gold	18 (45.72)	MC	C2PXG-2418M-ND	3.70	28.01
	Tin	18 (45.72)	MC	C2PXT-2418M-ND	3.27	24.80
	Gold	18 (45.72)	GR	C2PXG-2418G-ND	3.42	25.93
	Tin	18 (45.72)	GR	C2PXT-2418G-ND	3.00	22.72
	Gold	36 (91.44)	MC	C2PXG-2436M-ND	4.57	34.64
	Tin	36 (91.44)	MC	C2PXT-2436M-ND	4.15	31.43
	Gold	36 (91.44)	GR	C2PXG-2436G-ND	4.02	30.48
	Tin	36 (91.44)	GR	C2PXT-2436G-ND	3.60	27.27
40	Gold	6 (15.24)	MC	C2PXG-4006M-ND	4.55	34.46
	Tin	6 (15.24)	MC	C2PXT-4006M-ND	3.94	29.85
	Gold	6 (15.24)	GR	C2PXG-4006G-ND	4.40	33.33
	Tin	6 (15.24)	GR	C2PXT-4006G-ND	3.79	28.71
	Gold	18 (45.72)	MC	C2PXG-4018M-ND	5.52	41.82
	Tin	18 (45.72)	MC	C2PXT-4018M-ND	4.91	37.20
	Gold	18 (45.72)	GR	C2PXG-4018G-ND	5.07	38.41
	Tin	18 (45.72)	GR	C2PXT-4018G-ND	4.46	33.79
	Gold	36 (91.44)	MC	C2PXG-4036M-ND	6.97	52.85
	Tin	36 (91.44)	MC	C2PXT-4036M-ND	6.36	48.23
	Gold	36 (91.44)	GR	C2PXG-4036G-ND	6.07	46.03
	Tin	36 (91.44)	GR	C2PXT-4036G-ND	5.46	41.41

Also available in the following version:
C2RX□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

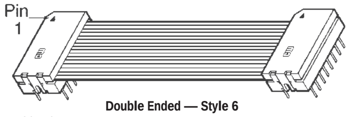


Single Ended — Style 4

* MC = Multi Color, GR = Gray

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
14	Gold	6 (15.24)	MC	C4PXG-1406M-ND	1.78	13.51
	Tin	6 (15.24)	MC	C4PXT-1406M-ND	1.54	11.67
	Gold	6 (15.24)	GR	C4PXG-1406G-ND	1.73	13.11
	Tin	6 (15.24)	GR	C4PXT-1406G-ND	1.49	11.28
	Gold	18 (45.72)	MC	C4PXG-1418M-ND	2.12	16.08
	Tin	18 (45.72)	MC	C4PXT-1418M-ND	1.88	14.25
	Gold	18 (45.72)	GR	C4PXG-1418G-ND	1.97	14.90
	Tin	18 (45.72)	GR	C4PXT-1418G-ND	1.72	13.07
	Gold	36 (91.44)	MC	C4PXG-1436M-ND	2.63	19.94
	Tin	36 (91.44)	MC	C4PXT-1436M-ND	2.39	18.11
	Gold	36 (91.44)	GR	C4PXG-1436G-ND	2.32	17.58
	Tin	36 (91.44)	GR	C4PXT-1436G-ND	2.08	15.75
16	Gold	6 (15.24)	MC	C4PXG-1606M-ND	1.90	14.39
	Tin	6 (15.24)	MC	C4PXT-1606M-ND	1.64	12.46
	Gold	6 (15.24)	GR	C4PXG-1606G-ND	1.84	13.94
	Tin	6 (15.24)	GR	C4PXT-1606G-ND	1.58	12.00
	Gold	18 (45.72)	MC	C4PXG-1618M-ND	2.29	17.33
	Tin	18 (45.72)	MC	C4PXT-1618M-ND	2.03	15.39
	Gold	18 (45.72)	GR	C4PXG-1618G-ND	2.10	15.96
	Tin	18 (45.72)	GR	C4PXT-1618G-ND	1.85	14.02
	Gold	36 (91.44)	MC	C4PXG-1636M-ND	2.87	21.74
	Tin	36 (91.44)	MC	C4PXT-1636M-ND	2.61	19.80
	Gold	36 (91.44)	GR	C4PXG-1636G-ND	2.50	18.99
	Tin	36 (91.44)	GR	C4PXT-1636G-ND	2.25	17.05
24	Gold	6 (15.24)	MC	C4PXG-2406M-ND	3.11	23.59
	Tin	6 (15.24)	MC	C4PXT-2406M-ND	2.69	20.39
	Gold	6 (15.24)	GR	C4PXG-2406G-ND	3.02	22.90
	Tin	6 (15.24)	GR	C4PXT-2406G-ND	2.60	19.69
	Gold	18 (45.72)	MC	C4PXG-2418M-ND	3.70	28.01
	Tin	18 (45.72)	MC	C4PXT-2418M-ND	3.27	24.80
	Gold	18 (45.72)	GR	C4PXG-2418G-ND	3.42	25.93
	Tin	18 (45.72)	GR	C4PXT-2418G-ND	3.00	22.72
	Gold	36 (91.44)	MC	C4PXG-2436M-ND	4.57	34.64
	Tin	36 (91.44)	MC	C4PXT-2436M-ND	4.15	31.43
	Gold	36 (91.44)	GR	C4PXG-2436G-ND	4.02	30.48
	Tin	36 (91.44)	GR	C4PXT-2436G-ND	3.60	27.27
40	Gold	6 (15.24)	MC	C4PXG-4006M-ND	4.55	34.46
	Tin	6 (15.24)	MC	C4PXT-4006M-ND	3.94	29.85
	Gold	6 (15.24)	GR	C4PXG-4006G-ND	4.40	33.33
	Tin	6 (15.24)	GR	C4PXT-4006G-ND	3.79	28.71
	Gold	18 (45.72)	MC	C4PXG-4018M-ND	5.52	41.82
	Tin	18 (45.72)	MC	C4PXT-4018M-ND	4.91	37.20
	Gold	18 (45.72)	GR	C4PXG-4018G-ND	5.07	38.41
	Tin	18 (45.72)	GR	C4PXT-4018G-ND	4.46	33.79
	Gold	36 (91.44)	MC	C4PXG-4036M-ND	6.97	52.85
	Tin	36 (91.44)	MC	C4PXT-4036M-ND	6.36	48.23
	Gold	36 (91.44)	GR	C4PXG-4036G-ND	6.07	46.03
	Tin	36 (91.44)	GR	C4PXT-4036G-ND	5.46	41.41

Also available in the following version:
C4RX□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

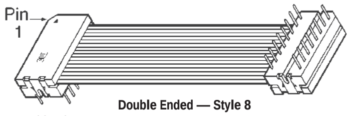


Double Ended — Style 6

* MC = Multi Color, GR = Gray

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
14	Gold	6 (15.24)	MC	C6PPG-1406M-ND	3.39	25.73
	Tin	6 (15.24)	MC	C6PPT-1406M-ND	2.91	22.06
	Gold	6 (15.24)	GR	C6PPG-1406G-ND	3.34	25.33
	Tin	6 (15.24)	GR	C6PPT-1406G-ND	2.86	21.67
	Gold	18 (45.72)	MC	C6PPG-1418M-ND	3.73	28.30
	Tin	18 (45.72)	MC	C6PPT-1418M-ND	3.25	24.64
	Gold	18 (45.72)	GR	C6PPG-1418G-ND	3.58	27.12
	Tin	18 (45.72)	GR	C6PPT-1418G-ND	3.09	23.45
	Gold	36 (91.44)	MC	C6PPG-1436M-ND	4.24	32.16
	Tin	36 (91.44)	MC	C6PPT-1436M-ND	3.76	28.49
	Gold	36 (91.44)	GR	C6PPG-1436G-ND	3.93	29.80
	Tin	36 (91.44)	GR	C6PPT-1436G-ND	3.45	26.13
16	Gold	6 (15.24)	MC	C6PPG-1606M-ND	3.60	27.32
	Tin	6 (15.24)	MC	C6PPT-1606M-ND	3.09	23.44
	Gold	6 (15.24)	GR	C6PPG-1606G-ND	3.54	26.86
	Tin	6 (15.24)	GR	C6PPT-1606G-ND	3.03	22.98
	Gold	18 (45.72)	MC	C6PPG-1618M-ND	4.01	30.41
	Tin	18 (45.72)	MC	C6PPT-1618M-ND	3.48	26.38
	Gold	18 (45.72)	GR	C6PPG-1618G-ND	3.81	28.88
	Tin	18 (45.72)	GR	C6PPT-1618G-ND	3.30	25.00
	Gold	36 (91.44)	MC	C6PPG-1636M-ND	4.57	34.66
	Tin	36 (91.44)	MC	C6PPT-1636M-ND	4.06	30.79
	Gold	36 (91.44)	GR	C6PPG-1636G-ND	4.21	31.91
	Tin	36 (91.44)	GR	C6PPT-1636G-ND	3.70	28.04
24	Gold	6 (15.24)	MC	C6PPG-2406M-ND	5.93	44.98
	Tin	6 (15.24)	MC	C6PPT-2406M-ND	5.09	38.56
	Gold	6 (15.24)	GR	C6PPG-2406G-ND	5.84	44.29
	Tin	6 (15.24)	GR	C6PPT-2406G-ND	5.00	37.87
	Gold	18 (45.72)	MC	C6PPG-2418M-ND	6.52	49.40
	Tin	18 (45.72)	MC	C6PPT-2418M-ND	5.67	42.98
	Gold	18 (45.72)	GR	C6PPG-2418G-ND	6.24	47.32
	Tin	18 (45.72)	GR	C6PPT-2418G-ND	5.40	40.90
	Gold	36 (91.44)	MC	C6PPG-2436M-ND	7.39	56.02
	Tin	36 (91.44)	MC	C6PPT-2436M-ND	6.54	49.61
	Gold	36 (91.44)	GR	C6PPG-2436G-ND	6.84	51.86
	Tin	36 (91.44)	GR	C6PPT-2436G-ND	6.00	45.45
40	Gold	6 (15.24)	MC	C6PPG-4006M-ND	8.61	65.25
	Tin	6 (15.24)	MC	C6PPT-4006M-ND	7.39	56.01
	Gold	6 (15.24)	GR	C6PPG-4006G-ND	8.46	64.11
	Tin	6 (15.24)	GR	C6PPT-4006G-ND	7.24	54.87
	Gold	18 (45.72)	MC	C6PPG-4018M-ND	9.58	72.60
	Tin	18 (45.72)	MC	C6PPT-4018M-ND	8.36	63.37
	Gold	18 (45.72)	GR	C6PPG-4018G-ND	9.13	69.19
	Tin	18 (45.72)	GR	C6PPT-4018G-ND	7.91	59.96
	Gold	36 (91.44)	MC	C6PPG-4036M-ND	11.03	83.64
	Tin	36 (91.44)	MC	C6PPT-4036M-ND	9.81	74.40
	Gold	36 (91.44)	GR	C6PPG-4036G-ND	10.13	76.82
	Tin	36 (91.44)	GR	C6PPT-4036G-ND	8.91	67.58

Also available in the following version:
C6RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

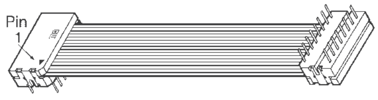


Double Ended — Style 8

* MC = Multi Color, GR = Gray

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
14	Gold	6 (15.24)	MC	C8PPG-1406M-ND	3.39	25.73
	Tin	6 (15.24)	MC	C8PPT-1406M-ND	2.91	22.06
	Gold	6 (15.24)	GR	C8PPG-1406G-ND	3.34	25.33
	Tin	6 (15.24)	GR	C8PPT-1406G-ND	2.86	21.67
	Gold	18 (45.72)	MC	C8PPG-1418M-ND	3.73	28.30
	Tin	18 (45.72)	MC	C8PPT-1418M-ND	3.25	24.64
	Gold	18 (45.72)	GR	C8PPG-1418G-ND	3.58	27.12
	Tin	18 (45.72)	GR	C8PPT-1418G-ND	3.09	23.45
	Gold	36 (91.44)	MC	C8PPG-1436M-ND	4.24	32.16
	Tin	36 (91.44)	MC	C8PPT-1436M-ND	3.76	28.49
	Gold	36 (91.44)	GR	C8PPG-1436G-ND	3.93	29.80
	Tin	36 (91.44)	GR	C8PPT-1436G-ND	3.45	26.13
16	Gold	6 (15.24)	MC	C8PPG-1606M-ND	3.60	27.32
	Tin	6 (15.24)	MC	C8PPT-1606M-ND	3.09	23.44
	Gold	6 (15.24)	GR	C8PPG-1606G-ND	3.54	26.86
	Tin	6 (15.24)	GR	C8PPT-1606G-ND	3.03	22.98
	Gold	18 (45.72)	MC	C8PPG-1618M-ND	3.99	30.26
	Tin	18 (45.72)	MC	C8PPT-1618M-ND	3.48	26.38
	Gold	18 (45.72)	GR	C8PPG-1618G-ND	3.81	28.88
	Tin	18 (45.72)	GR	C8PPT-1618G-ND	3.30	25.00
	Gold	36 (91.44)	MC	C8PPG-1636M-ND	4.57	34.66
	Tin	36 (91.44)	MC	C8PPT-1636M-ND	4.06	30.79
	Gold	36 (91.44)	GR	C8PPG-1636G-ND	4.21	31.91
	Tin	36 (91.44)	GR	C8PPT-1636G-ND	3.70	28.04
24	Gold	6 (15.24)	MC	C8PPG-2406M-ND	5.93	44.98
	Tin	6 (15.24)	MC	C8PPT-2406M-ND	5.09	38.56
	Gold	6 (15.24)	GR	C8PPG-2406G-ND	5.84	44.29
	Tin	6 (15.24)	GR	C8PPT-2406G-ND	5.00	37.87
	Gold	18 (45.72)	MC	C8PPG-2418M-ND	6.52	49.40
	Tin	18 (45.72)	MC	C8PPT-2418M-ND	5.67	42.98
	Gold	18 (45.72)	GR	C8PPG-2418G-ND	6.24	47.32
	Tin	18 (45.72)	GR	C8PPT-2418G-ND	5.40	40.90
	Gold	36 (91.44)	MC	C8PPG-2436M-ND	7.39	56.02
	Tin	36 (91.44)	MC	C8PPT-2436M-ND	6.54	49.61
	Gold	36 (91.44)	GR	C8PPG-2436G-ND	6.84	51.86
	Tin	36 (91.44)	GR	C8PPT-2436G-ND	6.00	45.45
40	Gold	6 (15.24)	MC	C8PPG-4006M-ND	8.61	65.25
	Tin	6 (15.24)	MC	C8PPT-4006M-ND	7.39	56.01
	Gold	6 (15.24)	GR	C8PPG-4006G-ND	8.46	64.11
	Tin	6 (15.24)	GR	C8PPT-4006G-ND	7.24	54.87
	Gold	18 (45.72)	MC	C8PPG-4018M-ND	9.58	72.60
	Tin	18 (45.72)	MC	C8PPT-4018M-ND	8.36	63.37
	Gold	18 (45.72)	GR	C8PPG-4018G-ND	9.13	69.19
	Tin	18 (45.72)	GR	C8PPT-4018G-ND	7.91	59.96
	Gold	36 (91.44)	MC	C8PPG-4036M-ND	11.03	83.64
	Tin	36 (91.44)	MC	C8PPT-4036M-ND	9.81	74.40
	Gold	36 (91.44)	GR	C8PPG-4036G-ND	10.13	76.82
	Tin	36 (91.44)	GR	C8PPT-4036G-ND	8.91	67.58

Also available in the following version:
C8RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!



Double Ended — Style 0

* MC = Multi Color, GR = Gray

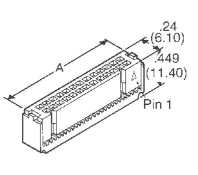
No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
14	Gold	6 (15.24)	MC	C0PPG-1406M-ND	3.39	25.73
	Tin	6 (15.24)	MC	C0PPT-1406M-ND	2.91	22.06
	Gold	6 (15.24)	GR	C0PPG-1406G-ND	3.34	25.33
	Tin	6 (15.24)	GR	C0PPT-1406G-ND	2.86	21.67
	Gold	18 (45.72)	MC	C0PPG-1418M-ND	3.73	28.30
	Tin	18 (45.72)	MC	C0PPT-1418M-ND	3.25	24.64
	Gold	18 (45.72)	GR	C0PPG-1418G-ND	3.58	27.12
	Tin	18 (45.72)	GR	C0PPT-1418G-ND	3.09	23.45
	Gold	36 (91.44)	MC	C0PPG-1436M-ND	4.24	32.16
	Tin	36 (91.44)	MC	C0PPT-1436M-ND	3.76	28.49
	Gold	36 (91.44)	GR	C0PPG-1436G-ND	3.93	29.80
	Tin	36 (91.44)	GR	C0PPT-1436G-ND	3.45	26.13
16	Gold	6 (15.24)	MC	C0PPG-1606M-ND	3.60	27.32
	Tin	6 (15.24)	MC	C0PPT-1606M-ND	3.09	23.44
	Gold	6 (15.24)	GR	C0PPG-1606G-ND	3.54	26.86
	Tin	6 (15.24)	GR	C0PPT-1606G-ND	3.03	22.98
	Gold	18 (45.72)	MC	C0PPG-1618M-ND	3.99	30.26
	Tin	18 (45.72)	MC	C0PPT-1618M-ND	3.48	26.38
	Gold	18 (45.72)	GR	C0PPG-1618G-ND	3.81	28.88
	Tin	18 (45.72)	GR	C0PPT-1618G-ND	3.30	25.00
	Gold	36 (91.44)	MC	C0PPG-1636M-ND	4.57	34.66
	Tin	36 (91.44)	MC	C0PPT-1636M-ND	4.06	30.79
	Gold	36 (91.44)	GR	C0PPG-1636G-ND	4.21	31.91
	Tin	36 (91.44)	GR	C0PPT-1636G-ND	3.70	28.04
24	Gold	6 (15.24)	MC	C0PPG-2406M-ND	5.93	44.98
	Tin	6 (15.24)	MC	C0PPT-2406M-ND	5.09	38.56
	Gold	6 (15.24)	GR	C0PPG-2406G-ND	5.84	44.29
	Tin	6 (15.24)	GR	C0PPT-2406G-ND	5.00	37.87
	Gold	18 (45.72)	MC	C0PPG-2418M-ND	6.52	49.40
	Tin	18 (45.72)	MC	C0PPT-2418M-ND	5.67	42.98
	Gold	18 (45.72)	GR	C0PPG-2418G-ND	6.24	47.32
	Tin	18 (45.72)	GR	C0PPT-2418G-ND	5.40	40.90
	Gold	36 (91.44)	MC	C0PPG-2436M-ND	7.39	56.02
	Tin	36 (91.44)	MC	C0PPT-2436M-ND	6.54	49.61
	Gold	36 (91.44)	GR	C0PPG-2436G-ND	6.84	51.86
	Tin	36 (91.44)	GR	C0PPT-2436G-ND	6.00	45.45
40	Gold	6 (15.24)	MC	C0PPG-4006M-ND	8.61	65.25
	Tin	6 (15.24)	MC	C0PPT-4006M-ND	7.39	56.01
	Gold	6 (15.24)	GR	C0PPG-4006G-ND	8.46	64.11
	Tin	6 (15.24)	GR	C0PPT-4006G-ND	7.24	54.87
	Gold	18 (45.72)	MC	C0PPG-4018M-ND	9.58	72.60
	Tin	18 (45.72)	MC	C0PPT-4018M-ND	8.36	63.37
	Gold	18 (45.72)	GR	C0PPG-4018G-ND	9.13	69.19
	Tin	18 (45.72)	GR	C0PPT-4018G-ND	7.91	59.96
	Gold	36 (91.44)	MC	C0PPG-4036M-ND	11.03	83.64
	Tin	36 (91.44)	MC	C0PPT-4036M-ND	9.81	74.40
	Gold	36 (91.44)	GR	C0PPG-4036G-ND	10.13	76.82
	Tin	36 (91.44)	GR	C0PPT-4036G-ND	8.91	67.58

Also available in the following version:
C0RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

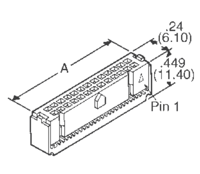
INDUSTRIES

Socket Connectors

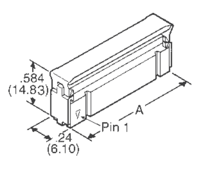
Socket Connector



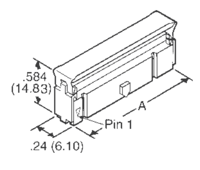
Socket Connector with Central Polarizing Key



Socket Connector with Strain Relief



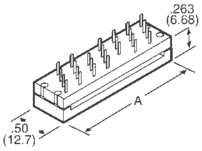
Socket Connector with Strain Relief and Central Polarizing Key



• **Contacts:** Phosphor bronze • **Contact Plating:** Gold – 10µ in. gold (in mating area) over 50µ in. nickel. Tin – 100µ in. tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Strain Relief Strap Material:** Insulated stainless steel • **Color:** Blue • **Operating Temperature:** -55°C to +125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** Greater than 500 Vdc at sea level • **Insulation Resistance:** Greater than 5x10^9 ohms • Withdrawal force 56.70g – 226.79g/contact, typical. • Cover pull-off force 226.79g/contact, minimum (force along contacts' primary axis)

No. of Cont.	Cont. Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		
				1	10	100
Socket Connector						
10	Gold	.677 (17.20)	CSC10G-ND	1.12	.85	.65
	Tin	.677 (17.20)	CSC10T-ND	.95	.72	.56
14	Gold	.877 (22.28)	CSC14G-ND	1.58	1.20	.92
	Tin	.877 (22.28)	CSC14T-ND	1.34	1.02	.79
16	Gold	.977 (24.82)	CSC16G-ND	1.83	1.39	1.07
	Tin	.977 (24.82)	CSC16T-ND	1.55	1.18	.91
20	Gold	1.177 (29.90)	CSC20G-ND	1.92	1.46	1.12
	Tin	1.177 (29.90)	CSC20T-ND	1.63	1.24	.95
26	Gold	1.477 (37.52)	CSC26G-ND	2.29	1.74	1.34
	Tin	1.477 (37.52)	CSC26T-ND	1.95	1.48	1.14
34	Gold	1.877 (47.68)	CSC34G-ND	2.82	2.14	1.64
	Tin	1.877 (47.68)	CSC34T-ND	2.40	1.82	1.40
40	Gold	2.177 (55.30)	CSC40G-ND	3.10	2.35	1.80
	Tin	2.177 (55.30)	CSC40T-ND	2.64	2.00	1.53
50	Gold	2.677 (68.00)	CSC50G-ND	3.72	2.82	2.16
	Tin	2.677 (68.00)	CSC50T-ND	3.16	2.40	1.84
60	Gold	3.177 (80.70)	CSC60G-ND	4.53	3.44	2.63
	Tin	3.177 (80.70)	CSC60T-ND	3.85	2.92	2.24
Socket Connector With Strain Relief						
10	Gold	.677 (17.20)	CSR10G-ND	1.36	1.04	.80
	Tin	.677 (17.20)	CSR10T-ND	1.16	.88	.68
14	Gold	.877 (22.28)	CSR14G-ND	1.83	1.39	1.07
	Tin	.877 (22.28)	CSR14T-ND	1.55	1.18	.91
16	Gold	.977 (24.82)	CSR16G-ND	2.05	1.56	1.19
	Tin	.977 (24.82)	CSR16T-ND	1.74	1.32	1.01
20	Gold	1.177 (29.90)	CSR20G-ND	2.14	1.63	1.25
	Tin	1.177 (29.90)	CSR20T-ND	1.82	1.38	1.06
26	Gold	1.477 (37.52)	CSR26G-ND	2.48	1.88	1.44
	Tin	1.477 (37.52)	CSR26T-ND	2.11	1.60	1.23
34	Gold	1.877 (47.68)	CSR34G-ND	3.04	2.31	1.77
	Tin	1.877 (47.68)	CSR34T-ND	2.58	1.96	1.50
40	Gold	2.177 (55.30)	CSR40G-ND	3.29	2.50	1.91
	Tin	2.177 (55.30)	CSR40T-ND	2.79	2.12	1.63
50	Gold	2.677 (68.00)	CSR50G-ND	3.94	2.99	2.29
	Tin	2.677 (68.00)	CSR50T-ND	3.35	2.54	1.95
60	Gold	3.177 (80.70)	CSR60G-ND	4.77	3.62	2.78
	Tin	3.177 (80.70)	CSR60T-ND	4.06	3.08	2.36
Socket Connector With Polarizing Key						
10	Gold	.677 (17.20)	CKC10G-ND	1.12	.85	.65
	Tin	.677 (17.20)	CKC10T-ND	.95	.72	.56
14	Gold	.877 (22.28)	CKC14G-ND	1.58	1.20	.92
	Tin	.877 (22.28)	CKC14T-ND	1.34	1.02	.79
16	Gold	.977 (24.82)	CKC16G-ND	1.83	1.39	1.07
	Tin	.977 (24.82)	CKC16T-ND	1.55	1.18	.91
20	Gold	1.177 (29.90)	CKC20G-ND	1.92	1.46	1.12
	Tin	1.177 (29.90)	CKC20T-ND	1.63	1.24	.95
26	Gold	1.477 (37.52)	CKC26G-ND	2.29	1.74	1.34
	Tin	1.477 (37.52)	CKC26T-ND	1.95	1.48	1.14
Socket Connector with Polarizing Key (Cont.)						
34	Gold	1.877 (47.68)	CKC34G-ND	2.82	2.14	1.64
	Tin	1.877 (47.68)	CKC34T-ND	2.40	1.82	1.40
40	Gold	2.177 (55.30)	CKC40G-ND	3.10	2.35	1.80
	Tin	2.177 (55.30)	CKC40T-ND	2.64	2.00	1.53
50	Gold	2.677 (68.00)	CKC50G-ND	3.72	2.82	2.16
	Tin	2.677 (68.00)	CKC50T-ND	3.16	2.40	1.84
60	Gold	3.177 (80.70)	CKC60G-ND	4.53	3.44	2.63
	Tin	3.177 (80.70)	CKC60T-ND	3.85	2.92	2.24
Socket Connector w/Polarizing Key and Strain Relief						
10	Gold	.677 (17.20)	CKR10G-ND	1.36	1.04	.80
	Tin	.677 (17.20)	CKR10T-ND	1.16	.88	.68
14	Gold	.877 (22.28)	CKR14G-ND	1.83	1.39	1.07
	Tin	.877 (22.28)	CKR14T-ND	1.55	1.18	.91
16	Gold	.977 (24.82)	CKR16G-ND	2.05	1.56	1.19
	Tin	.977 (24.82)	CKR16T-ND	1.74	1.32	1.01
20	Gold	1.177 (29.90)	CKR20G-ND	2.14	1.63	1.25
	Tin	1.177 (29.90)	CKR20T-ND	1.82	1.38	1.06
26	Gold	1.477 (37.52)	CKR26G-ND	2.48	1.88	1.44
	Tin	1.477 (37.52)	CKR26T-ND	2.11	1.60	1.23
34	Gold	1.877 (47.68)	CKR34G-ND	3.04	2.31	1.77
	Tin	1.877 (47.68)	CKR34T-ND	2.58	1.96	1.50
40	Gold	2.177 (55.30)	CKR40G-ND	3.29	2.50	1.91
	Tin	2.177 (55.30)	CKR40T-ND	2.79	2.12	1.63
50	Gold	2.677 (68.00)	CKR50G-ND	3.94	2.99	2.29
	Tin	2.677 (68.00)	CKR50T-ND	3.35	2.54	1.95
60	Gold	3.177 (80.70)	CKR60G-ND	4.77	3.62	2.78
	Tin	3.177 (80.70)	CKR60T-ND	4.06	3.08	2.36
Polarizing Key			PK-1-ND	.22/2	.86/10	6.30/100

PCB Connectors

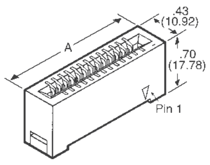


• **Contacts:** Phosphor bronze • **Contact Plating:** Tin – 100µ in tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Op Temperature:** -55°C to +125°C • **Current Rating:** 1A (max.) per contact • **Dielectric Withstand Voltage:** Greater than 500 VDC at sea level • **Insulation Resistance:** Greater than 5 x 10^9 ohms. Cover pull-off force, without strain relief, 5.60kg. min. (force along contacts' primary axis)

No. of Cont.	Cont. Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		
				1	10	100
PCB Connectors						
10	Tin	.700 (17.78)	CPC10T-ND	1.24	.94	.72
•20	Tin	1.200 (30.48)	CPC20T-ND	1.46	1.11	.85
26	Tin	1.500 (38.10)	CPC26T-ND	1.86	1.41	1.08
34	Tin	1.900 (48.26)	CPC34T-ND	2.26	1.72	1.32
•40	Tin	2.200 (55.88)	CPC40T-ND	2.60	1.98	1.52
50	Tin	2.700 (68.58)	CPC50T-ND	3.22	2.45	1.88
•60	Tin	3.200 (81.28)	CPC60T-ND	3.72	2.82	2.16

• Full row version. ("Special Center" version shown above).

Card Edge Connectors

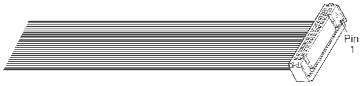


• **Contacts:** Phosphor bronze • **Contact Plating:** Gold – 10µ in. gold (in mating area) over 50µ in. nickel. Tin – 100µ in. tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Op Temperature:** -55°C to +125°C • **Current Rating:** 1 A (max.) per contact • **Dielectric Withstand Voltage:** Greater than 500 Vdc at sea level • **Insulation Resistance:** Greater than 5x10^9 ohms • Cover pull-off force 226.79g./contact min. (force along contacts' primary axis)

No. of Cont.	Contact Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		
				1	10	100
Card Edge Connectors						
10	Gold	.976 (24.79)	CCE10G-ND	2.42	1.84	1.41
10	Tin	.976 (24.79)	CCE10T-ND	2.05	1.56	1.19
20	Gold	1.476 (37.49)	CCE20G-ND	3.22	2.45	1.88
20	Tin	1.476 (37.49)	CCE20T-ND	2.73	2.07	1.59
26	Gold	1.776 (45.11)	CCE26G-ND	3.88	2.94	2.25
26	Tin	1.776 (45.11)	CCE26T-ND	3.29	2.50	1.91
34	Gold	2.176 (55.27)	CCE34G-ND	4.81	3.65	2.79
34	Tin	2.176 (55.27)	CCE34T-ND	4.09	3.11	2.38
40	Gold	2.476 (62.89)	CCE40G-ND	5.61	4.26	3.26
40	Tin	2.476 (62.89)	CCE40T-ND	4.77	3.62	2.78
50	Gold	2.976 (75.59)	CCE50G-ND	6.32	4.80	3.68
50	Tin	2.976 (75.59)	CCE50T-ND	5.36	4.07	3.12
Polarizing Key			PK-2-ND	.22/2	.86/10	6.30/100

Termination Jumpers

Socket Connector — Single Ended



* MC = Multi-Color, GR = Gray

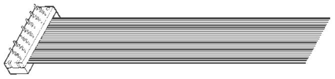
No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Gold	36 (91.44)	MC	C1AXG-1036M-ND	1.84	1.40
	Tin	36 (91.44)	MC	C1AXT-1036M-ND	1.67	1.27
	Gold	36 (91.44)	GR	C1AXG-1036G-ND	1.61	1.23
	Tin	36 (91.44)	GR	C1AXT-1036G-ND	1.45	1.10
14	Gold	36 (91.44)	MC	C1AXG-1436M-ND	2.60	1.97
	Tin	36 (91.44)	MC	C1AXT-1436M-ND	2.36	1.80
	Gold	36 (91.44)	GR	C1AXG-1436G-ND	2.29	1.74
	Tin	36 (91.44)	GR	C1AXT-1436G-ND	2.05	1.56
16	Gold	36 (91.44)	MC	C1AXG-1636M-ND	2.99	2.27
	Tin	36 (91.44)	MC	C1AXT-1636M-ND	2.72	2.06
	Gold	36 (91.44)	GR	C1AXG-1636G-ND	2.63	2.00
	Tin	36 (91.44)	GR	C1AXT-1636G-ND	2.35	1.79
20	Gold	36 (91.44)	MC	C1AXG-2036M-ND	3.38	2.56
	Tin	36 (91.44)	MC	C1AXT-2036M-ND	3.09	2.35
	Gold	36 (91.44)	GR	C1AXG-2036G-ND	2.93	2.22
	Tin	36 (91.44)	GR	C1AXT-2036G-ND	2.64	2.00
26	Gold	36 (91.44)	MC	C1AXG-2636M-ND	4.18	3.18
	Tin	36 (91.44)	MC	C1AXT-2636M-ND	3.84	2.92
	Gold	36 (91.44)	GR	C1AXG-2636G-ND	3.61	2.74
	Tin	36 (91.44)	GR	C1AXT-2636G-ND	3.26	2.48
34	Gold	36 (91.44)	MC	C1AXG-3436M-ND	5.29	4.01
	Tin	36 (91.44)	MC	C1AXT-3436M-ND	4.86	3.69
	Gold	36 (91.44)	GR	C1AXG-3436G-ND	4.53	3.44
	Tin	36 (91.44)	GR	C1AXT-3436G-ND	4.11	3.12
40	Gold	36 (91.44)	MC	C1AXG-4036M-ND	6.01	4.56
	Tin	36 (91.44)	MC	C1AXT-4036M-ND	5.55	4.21
	Gold	36 (91.44)	GR	C1AXG-4036G-ND	5.11	3.88
	Tin	36 (91.44)	GR	C1AXT-4036G-ND	4.65	3.53
50	Gold	36 (91.44)	MC	C1AXG-5036M-ND	7.36	5.58
	Tin	36 (91.44)	MC	C1AXT-5036M-ND	6.80	5.16
	Gold	36 (91.44)	GR	C1AXG-5036G-ND	6.23	4.73
	Tin	36 (91.44)	GR	C1AXT-5036G-ND	5.67	4.31
60	Gold	36 (91.44)	MC	C1AXG-6036M-ND	8.87	6.73
	Tin	36 (91.44)	MC	C1AXT-6036M-ND	8.19	6.22
	Gold	36 (91.44)	GR	C1AXG-6036G-ND	7.53	5.71
	Tin	36 (91.44)	GR	C1AXT-6036G-ND	6.85	5.20

Also available in the following versions:

C1BX□-□□□□□-ND – Socket Connector with Strain Relief.
C1CX□-□□□□□-ND – Socket Connector with Central Polarizing Key.
C1DX□-□□□□□-ND – Socket Connector w. Strain Relief & Central Polarizing Key.

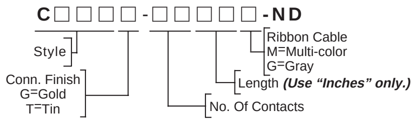
Call for complete part number and pricing!

PCB Connector – Single Ended



* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Tin	36 (91.44)	MC	C1PXT-1036M-ND	1.97	1.49
	Tin	36 (91.44)	GR	C1PXT-1036G-ND	1.74	1.32
20	Tin	36 (91.44)	MC	C1PXT-2036M-ND	2.91	2.21
	Tin	36 (91.44)	GR	C1PXT-2036G-ND	2.46	1.87
26	Tin	36 (91.44)	MC	C1PXT-2636M-ND	3.75	2.85
	Tin	36 (91.44)	GR	C1PXT-2636G-ND	3.17	2.41
34	Tin	36 (91.44)	MC	C1PXT-3436M-ND	4.73	3.59
	Tin	36 (91.44)	GR	C1PXT-3436G-ND	3.97	3.02
40	Tin	36 (91.44)	MC	C1PXT-4036M-ND	5.51	4.19
	Tin	36 (91.44)	GR	C1PXT-4036G-ND	4.62	3.50
50	Tin	36 (91.44)	MC	C1PXT-5036M-ND	6.86	5.21
	Tin	36 (91.44)	GR	C1PXT-5036G-ND	5.74	4.35
60	Tin	36 (91.44)	MC	C1PXT-6036M-ND	5.59	4.24
	Tin	36 (91.44)	GR	C1PXT-6036G-ND	4.25	3.22



Digi-Key® Custom Cable Assemblies Available

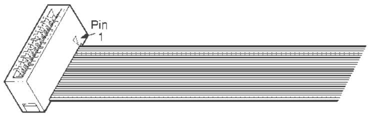
Call Toll Free: 1-800-344-4539

(Continued)

CW INDUSTRIES

Termination Jumpers *(Cont.)*

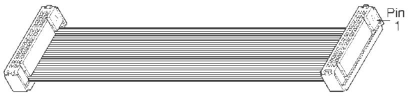
Card Edge Connector – Single Ended



* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	36 (91.44)	MC	C1EXG-1036M-ND	3.14	2.39
	Tin	36 (91.44)	MC	C1EXT-1036M-ND	2.78	2.11
	Gold	36 (91.44)	GR	C1EXG-1036G-ND	2.92	2.21
	Tin	36 (91.44)	GR	C1EXT-1036G-ND	2.55	1.94
20	Gold	36 (91.44)	MC	C1EXG-2036M-ND	4.68	3.55
	Tin	36 (91.44)	MC	C1EXT-2036M-ND	4.20	3.19
	Gold	36 (91.44)	GR	C1EXG-2036G-ND	4.23	3.21
	Tin	36 (91.44)	GR	C1EXT-2036G-ND	3.74	2.84
26	Gold	36 (91.44)	MC	C1EXG-2636M-ND	5.77	4.38
	Tin	36 (91.44)	MC	C1EXT-2636M-ND	5.18	3.93
	Gold	36 (91.44)	GR	C1EXG-2636G-ND	5.19	3.94
	Tin	36 (91.44)	GR	C1EXT-2636G-ND	4.61	3.50
34	Gold	36 (91.44)	MC	C1EXG-3436M-ND	7.27	5.52
	Tin	36 (91.44)	MC	C1EXT-3436M-ND	6.55	4.97
	Gold	36 (91.44)	GR	C1EXG-3436G-ND	6.52	4.94
	Tin	36 (91.44)	GR	C1EXT-3436G-ND	5.80	4.40
40	Gold	36 (91.44)	MC	C1EXG-4036M-ND	8.52	6.46
	Tin	36 (91.44)	MC	C1EXT-4036M-ND	7.68	5.83
	Gold	36 (91.44)	GR	C1EXG-4036G-ND	7.62	5.78
	Tin	36 (91.44)	GR	C1EXT-4036G-ND	6.78	5.14
50	Gold	36 (91.44)	MC	C1EXG-5036M-ND	9.96	7.56
	Tin	36 (91.44)	MC	C1EXT-5036M-ND	9.02	6.84
	Gold	36 (91.44)	GR	C1EXG-5036G-ND	8.84	6.70
	Tin	36 (91.44)	GR	C1EXT-5036G-ND	7.89	5.98

Socket Connector-to-Socket Connector



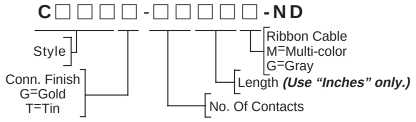
* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	C3AAG-1006M-ND	2.35	1.79
	Tin	6 (15.24)	MC	C3AAT-1006M-ND	2.02	1.53
	Gold	6 (15.24)	GR	C3AAG-1006G-ND	2.32	1.76
	Tin	6 (15.24)	GR	C3AAT-1006G-ND	1.98	1.51
	Gold	18 (45.72)	MC	C3AAG-1018M-ND	2.59	1.97
	Tin	18 (45.72)	MC	C3AAT-1018M-ND	2.26	1.72
	Gold	18 (45.72)	GR	C3AAG-1018G-ND	2.48	1.89
	Tin	18 (45.72)	GR	C3AAT-1018G-ND	2.15	1.63
	Gold	36 (91.44)	MC	C3AAG-1036M-ND	2.96	2.25
	Tin	36 (91.44)	MC	C3AAT-1036M-ND	2.62	1.99
	Gold	36 (91.44)	GR	C3AAG-1036G-ND	2.73	2.07
	Tin	36 (91.44)	GR	C3AAT-1036G-ND	2.39	1.82
14	Gold	6 (15.24)	MC	C3AAG-1406M-ND	3.33	2.53
	Tin	6 (15.24)	MC	C3AAT-1406M-ND	2.86	2.17
	Gold	6 (15.24)	GR	C3AAG-1406G-ND	3.28	2.49
	Tin	6 (15.24)	GR	C3AAT-1406G-ND	2.81	2.13
	Gold	18 (45.72)	MC	C3AAG-1418M-ND	3.67	2.79
	Tin	18 (45.72)	MC	C3AAT-1418M-ND	3.20	2.43
	Gold	18 (45.72)	GR	C3AAG-1418G-ND	3.52	2.67
	Tin	18 (45.72)	GR	C3AAT-1418G-ND	3.04	2.31
	Gold	36 (91.44)	MC	C3AAG-1436M-ND	4.18	3.17
	Tin	36 (91.44)	MC	C3AAT-1436M-ND	3.71	2.81
	Gold	36 (91.44)	GR	C3AAG-1436G-ND	3.87	2.94
	Tin	36 (91.44)	GR	C3AAT-1436G-ND	3.39	2.58
16	Gold	6 (15.24)	MC	C3AAG-1606M-ND	3.85	2.92
	Tin	6 (15.24)	MC	C3AAT-1606M-ND	3.30	2.51
	Gold	6 (15.24)	GR	C3AAG-1606G-ND	3.79	2.88
	Tin	6 (15.24)	GR	C3AAT-1606G-ND	3.24	2.46
	Gold	18 (45.72)	MC	C3AAG-1618M-ND	4.24	3.22
	Tin	18 (45.72)	MC	C3AAT-1618M-ND	3.69	2.80
	Gold	18 (45.72)	GR	C3AAG-1618G-ND	4.06	3.08
	Tin	18 (45.72)	GR	C3AAT-1618G-ND	3.51	2.66
	Gold	36 (91.44)	MC	C3AAG-1636M-ND	4.82	3.66
	Tin	36 (91.44)	MC	C3AAT-1636M-ND	4.27	3.24
	Gold	36 (91.44)	GR	C3AAG-1636G-ND	4.46	3.38
	Tin	36 (91.44)	GR	C3AAT-1636G-ND	3.91	2.97
20	Gold	6 (15.24)	MC	C3AAG-2006M-ND	4.09	3.10
	Tin	6 (15.24)	MC	C3AAT-2006M-ND	3.51	2.67
	Gold	6 (15.24)	GR	C3AAG-2006G-ND	4.01	3.05
	Tin	6 (15.24)	GR	C3AAT-2006G-ND	3.43	2.61
	Gold	18 (45.72)	MC	C3AAG-2018M-ND	4.57	3.47
	Tin	18 (45.72)	MC	C3AAT-2018M-ND	4.00	3.03
	Gold	18 (45.72)	GR	C3AAG-2018G-ND	4.35	3.30
	Tin	18 (45.72)	GR	C3AAT-2018G-ND	3.77	2.86
	Gold	36 (91.44)	MC	C3AAG-2036M-ND	5.30	4.02
	Tin	36 (91.44)	MC	C3AAT-2036M-ND	4.72	3.58
	Gold	36 (91.44)	GR	C3AAG-2036G-ND	4.85	3.68
	Tin	36 (91.44)	GR	C3AAT-2036G-ND	4.27	3.24
26	Gold	6 (15.24)	MC	C3AAG-2606M-ND	4.90	3.72
	Tin	6 (15.24)	MC	C3AAT-2606M-ND	4.21	3.20
	Gold	6 (15.24)	GR	C3AAG-2606G-ND	4.81	3.65
	Tin	6 (15.24)	GR	C3AAT-2606G-ND	4.12	3.13
	Gold	18 (45.72)	MC	C3AAG-2618M-ND	5.53	4.20
	Tin	18 (45.72)	MC	C3AAT-2618M-ND	4.84	3.68
	Gold	18 (45.72)	GR	C3AAG-2618G-ND	5.24	3.98
	Tin	18 (45.72)	GR	C3AAT-2618G-ND	4.56	3.46
	Gold	36 (91.44)	MC	C3AAG-2636M-ND	6.48	4.92
	Tin	36 (91.44)	MC	C3AAT-2636M-ND	5.79	4.39
	Gold	36 (91.44)	GR	C3AAG-2636G-ND	5.90	4.48
	Tin	36 (91.44)	GR	C3AAT-2636G-ND	5.21	3.95
34	Gold	6 (15.24)	MC	C3AAG-3406M-ND	6.05	4.59
	Tin	6 (15.24)	MC	C3AAT-3406M-ND	5.21	3.95
	Gold	6 (15.24)	GR	C3AAG-3406G-ND	5.93	4.50
	Tin	6 (15.24)	GR	C3AAT-3406G-ND	5.08	3.86
	Gold	18 (45.72)	MC	C3AAG-3418M-ND	6.87	5.22
	Tin	18 (45.72)	MC	C3AAT-3418M-ND	6.03	4.57
	Gold	18 (45.72)	GR	C3AAG-3418G-ND	6.50	4.93
	Tin	18 (45.72)	GR	C3AAT-3418G-ND	5.65	4.29
	Gold	36 (91.44)	MC	C3AAG-3436M-ND	8.11	6.15
	Tin	36 (91.44)	MC	C3AAT-3436M-ND	7.26	5.51
	Gold	36 (91.44)	GR	C3AAG-3436G-ND	7.35	5.58
	Tin	36 (91.44)	GR	C3AAT-3436G-ND	6.51	4.94
40	Gold	6 (15.24)	MC	C3AAG-4006M-ND	6.69	5.07
	Tin	6 (15.24)	MC	C3AAT-4006M-ND	5.76	4.37
	Gold	6 (15.24)	GR	C3AAG-4006G-ND	6.54	4.96
	Tin	6 (15.24)	GR	C3AAT-4006G-ND	5.61	4.25
	Gold	18 (45.72)	MC	C3AAG-4018M-ND	7.66	5.81
	Tin	18 (45.72)	MC	C3AAT-4018M-ND	6.73	5.10
	Gold	18 (45.72)	GR	C3AAG-4018G-ND	7.21	5.47
	Tin	18 (45.72)	GR	C3AAT-4018G-ND	6.28	4.76
	Gold	36 (91.44)	MC	C3AAG-4036M-ND	9.11	6.91
	Tin	36 (91.44)	MC	C3AAT-4036M-ND	8.18	6.21
	Gold	36 (91.44)	GR	C3AAG-4036G-ND	8.21	6.23
	Tin	36 (91.44)	GR	C3AAT-4036G-ND	7.28	5.52
50	Gold	6 (15.24)	MC	C3AAG-5006M-ND	8.05	6.10
	Tin	6 (15.24)	MC	C3AAT-5006M-ND	6.93	5.26
	Gold	6 (15.24)	GR	C3AAG-5006G-ND	7.86	5.96
	Tin	6 (15.24)	GR	C3AAT-5006G-ND	6.74	5.12
	Gold	18 (45.72)	MC	C3AAG-5018M-ND	9.26	7.02
	Tin	18 (45.72)	MC	C3AAT-5018M-ND	8.14	6.18
	Gold	18 (45.72)	GR	C3AAG-5018G-ND	8.70	6.60
	Tin	18 (45.72)	GR	C3AAT-5018G-ND	7.58	5.75
	Gold	36 (91.44)	MC	C3AAG-5036M-ND	11.08	8.40
	Tin	36 (91.44)	MC	C3AAT-5036M-ND	9.96	7.56
	Gold	36 (91.44)	GR	C3AAG-5036G-ND	9.95	7.55
	Tin	36 (91.44)	GR	C3AAT-5036G-ND	8.84	6.70
60	Gold	6 (15.24)	MC	C3AAG-6006M-ND	9.78	7.42
	Tin	6 (15.24)	MC	C3AAT-6006M-ND	8.42	6.39
	Gold	6 (15.24)	GR	C3AAG-6006G-ND	9.55	7.25
	Tin	6 (15.24)	GR	C3AAT-6006G-ND	8.20	6.22
	Gold	18 (45.72)	MC	C3AAG-6018M-ND	11.23	8.51
	Tin	18 (45.72)	MC	C3AAT-6018M-ND	9.87	7.49
	Gold	18 (45.72)	GR	C3AAG-6018G-ND	10.56	8.01
	Tin	18 (45.72)	GR	C3AAT-6018G-ND	9.20	6.98
	Gold	36 (91.44)	MC	C3AAG-6036M-ND	13.40	10.16
	Tin	36 (91.44)	MC	C3AAT-6036M-ND	12.04	9.13
	Gold	36 (91.44)	GR	C3AAG-6036G-ND	12.06	9.15
	Tin	36 (91.44)	GR	C3AAT-6036G-ND	10.70	8.12

Also available in the following versions:

C3BB☐-☐☐☐☐☐-ND — Socket Connector with Strain Relief.
C3CC☐-☐☐☐☐☐-ND — Socket Connector with Central Polarizing Key.
C3DD☐-☐☐☐☐☐-ND — Socket Connector w. Strain Relief & Central Polarizing Key.

Call for complete part number and pricing!



Digi-Key® Custom Cable Assemblies Available

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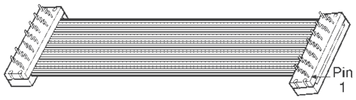
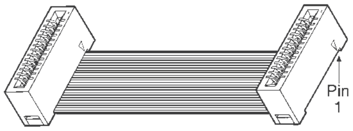
PCB Connector to PCB Connector



* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Tin	6 (15.24)	MC	C3PPT-1006M-ND	2.60	1.98
	Tin	6 (15.24)	GR	C3PPT-1006G-ND	2.56	1.95
	Tin	18 (45.72)	MC	C3PPT-1018M-ND	2.84	2.16
	Tin	18 (45.72)	GR	C3PPT-1018G-ND	2.73	2.07
	Tin	36 (91.44)	MC	C3PPT-1036M-ND	3.21	2.43
	Tin	36 (91.44)	GR	C3PPT-1036G-ND	2.98	2.26
20	Tin	6 (15.24)	MC	C3PPT-2006M-ND	3.16	2.40
	Tin	6 (15.24)	GR	C3PPT-2006G-ND	3.08	2.34
	Tin	18 (45.72)	MC	C3PPT-2018M-ND	3.64	2.77
	Tin	18 (45.72)	GR	C3PPT-2018G-ND	3.42	2.59
	Tin	36 (91.44)	MC	C3PPT-2036M-ND	4.37	3.32
	Tin	36 (91.44)	GR	C3PPT-2036G-ND	3.92	2.97
26	Tin	6 (15.24)	MC	C3PPT-2606M-ND	4.03	3.06
	Tin	6 (15.24)	GR	C3PPT-2606G-ND	3.94	2.99
	Tin	18 (45.72)	MC	C3PPT-2618M-ND	4.67	3.54
	Tin	18 (45.72)	GR	C3PPT-2618G-ND	4.38	3.32
	Tin	36 (91.44)	MC	C3PPT-2636M-ND	5.61	4.26
	Tin	36 (91.44)	GR	C3PPT-2636G-ND	5.03	3.82
34	Tin	6 (15.24)	MC	C3PPT-3406M-ND	4.94	3.75
	Tin	6 (15.24)	GR	C3PPT-3406G-ND	4.81	3.65
	Tin	18 (45.72)	MC	C3PPT-3418M-ND	5.76	4.37
	Tin	18 (45.72)	GR	C3PPT-3418G-ND	5.38	4.08
	Tin	36 (91.44)	MC	C3PPT-3436M-ND	6.99	5.30
	Tin	36 (91.44)	GR	C3PPT-3436G-ND	6.24	4.73
40	Tin	6 (15.24)	MC	C3PPT-4006M-ND	5.69	4.32
	Tin	6 (15.24)	GR	C3PPT-4006G-ND	5.54	4.21
	Tin	18 (45.72)	MC	C3PPT-4018M-ND	6.66	5.06
	Tin	18 (45.72)	GR	C3PPT-4018G-ND	6.21	4.71
	Tin	36 (91.44)	MC	C3PPT-4036M-ND	8.12	6.16
	Tin	36 (91.44)	GR	C3PPT-4036G-ND	7.22	5.48
50	Tin	6 (15.24)	MC	C3PPT-5006M-ND	7.05	5.35
	Tin	6 (15.24)	GR	C3PPT-5006G-ND	6.87	5.21
	Tin	18 (45.72)	MC	C3PPT-5018M-ND	8.27	6.27
	Tin	18 (45.72)	GR	C3PPT-5018G-ND	7.70	5.84
	Tin	36 (91.44)	MC	C3PPT-5036M-ND	10.09	7.65
	Tin	36 (91.44)	GR	C3PPT-5036G-ND	8.96	6.80
60	Tin	6 (15.24)	MC	C3PPT-6006M-ND	8.16	6.19
	Tin	6 (15.24)	GR	C3PPT-6006G-ND	7.94	6.02
	Tin	18 (45.72)	MC	C3PPT-6018M-ND	9.61	7.29
	Tin	18 (45.72)	GR	C3PPT-6018G-ND	8.94	6.78
	Tin	36 (91.44)	MC	C3PPT-6036M-ND	11.79	8.94
	Tin	36 (91.44)	GR	C3PPT-6036G-ND	10.45	7.92

Card Edge to Card Edge



* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	C3EEG-1006M-ND	4.96	3.76
	Tin	6 (15.24)	MC	C3EET-1006M-ND	4.23	3.21
	Gold	6 (15.24)	GR	C3EEG-1006G-ND	4.92	3.73
	Tin	6 (15.24)	GR	C3EET-1006G-ND	4.19	3.18
	Gold	18 (45.72)	MC	C3EEG-1018M-ND	5.20	3.95
	Tin	18 (45.72)	MC	C3EET-1018M-ND	4.47	3.40
	Gold	18 (45.72)	GR	C3EEG-1018G-ND	5.08	3.86
	Tin	18 (45.72)	GR	C3EET-1018G-ND	4.36	3.31
	Gold	36 (91.44)	MC	C3EEG-1036M-ND	5.56	4.22
	Tin	36 (91.44)	MC	C3EET-1036M-ND	4.84	3.67
	Gold	36 (91.44)	GR	C3EEG-1036G-ND	5.33	4.05
	Tin	36 (91.44)	GR	C3EET-1036G-ND	4.61	3.50
20	Gold	6 (15.24)	MC	C3EEG-2006M-ND	6.69	5.08
	Tin	6 (15.24)	MC	C3EET-2006M-ND	5.72	4.34
	Gold	6 (15.24)	GR	C3EEG-2006G-ND	6.62	5.02
	Tin	6 (15.24)	GR	C3EET-2006G-ND	5.65	4.29
	Gold	18 (45.72)	MC	C3EEG-2018M-ND	7.18	5.44
	Tin	18 (45.72)	MC	C3EET-2018M-ND	6.21	4.71
	Gold	18 (45.72)	GR	C3EEG-2018G-ND	6.95	5.27
	Tin	18 (45.72)	GR	C3EET-2018G-ND	5.98	4.54
	Gold	36 (91.44)	MC	C3EEG-2036M-ND	7.90	6.00
	Tin	36 (91.44)	MC	C3EET-2036M-ND	6.94	5.26
	Gold	36 (91.44)	GR	C3EEG-2036G-ND	7.45	5.65
	Tin	36 (91.44)	GR	C3EET-2036G-ND	6.49	4.92

(Continued)

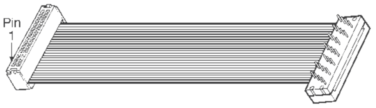
INDUSTRIES

Termination Jumpers

Card Edge to Card Edge *(Cont.)*

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
26	Gold	6 (15.24)	MC	C3EEG-2606M-ND	8.06	6.12
	Tin	6 (15.24)	MC	C3EET-2606M-ND	6.90	5.24
	Gold	6 (15.24)	GR	C3EEG-2606G-ND	7.97	6.05
	Tin	6 (15.24)	GR	C3EET-2606G-ND	6.81	5.16
	Gold	18 (45.72)	MC	C3EEG-2618M-ND	8.70	6.60
	Tin	18 (45.72)	MC	C3EET-2618M-ND	7.53	5.71
	Gold	18 (45.72)	GR	C3EEG-2618G-ND	8.41	6.38
	Tin	18 (45.72)	GR	C3EET-2618G-ND	7.24	5.50
	Gold	36 (91.44)	MC	C3EEG-2636M-ND	9.64	7.31
	Tin	36 (91.44)	MC	C3EET-2636M-ND	8.48	6.43
	Gold	36 (91.44)	GR	C3EEG-2636G-ND	9.06	6.87
	Tin	36 (91.44)	GR	C3EET-2636G-ND	7.90	5.99
34	Gold	6 (15.24)	MC	C3EEG-3406M-ND	10.02	7.60
	Tin	6 (15.24)	MC	C3EET-3406M-ND	8.58	6.51
	Gold	6 (15.24)	GR	C3EEG-3406G-ND	9.90	7.51
	Tin	6 (15.24)	GR	C3EET-3406G-ND	8.45	6.41
	Gold	18 (45.72)	MC	C3EEG-3418M-ND	10.84	8.22
	Tin	18 (45.72)	MC	C3EET-3418M-ND	9.40	7.13
	Gold	18 (45.72)	GR	C3EEG-3418G-ND	10.47	7.94
	Tin	18 (45.72)	GR	C3EET-3418G-ND	9.02	6.85
	Gold	36 (91.44)	MC	C3EEG-3436M-ND	12.07	9.16
	Tin	36 (91.44)	MC	C3EET-3436M-ND	10.63	8.07
	Gold	36 (91.44)	GR	C3EEG-3436G-ND	11.32	8.59
	Tin	36 (91.44)	GR	C3EET-3436G-ND	9.88	7.49
40	Gold	6 (15.24)	MC	C3EEG-4006M-ND	11.71	8.88
	Tin	6 (15.24)	MC	C3EET-4006M-ND	10.02	7.60
	Gold	6 (15.24)	GR	C3EEG-4006G-ND	11.56	8.77
	Tin	6 (15.24)	GR	C3EET-4006G-ND	9.87	7.49
	Gold	18 (45.72)	MC	C3EEG-4018M-ND	12.68	9.61
	Tin	18 (45.72)	MC	C3EET-4018M-ND	10.99	8.34
	Gold	18 (45.72)	GR	C3EEG-4018G-ND	12.23	9.27
	Tin	18 (45.72)	GR	C3EET-4018G-ND	10.54	8.00
	Gold	36 (91.44)	MC	C3EEG-4036M-ND	14.13	10.72
	Tin	36 (91.44)	MC	C3EET-4036M-ND	12.45	9.44
	Gold	36 (91.44)	GR	C3EEG-4036G-ND	13.23	10.04
	Tin	36 (91.44)	GR	C3EET-4036G-ND	11.55	8.76
50	Gold	6 (15.24)	MC	C3EEG-5006M-ND	13.25	10.05
	Tin	6 (15.24)	MC	C3EET-5006M-ND	11.36	8.61
	Gold	6 (15.24)	GR	C3EEG-5006G-ND	13.07	9.91
	Tin	6 (15.24)	GR	C3EET-5006G-ND	11.17	8.47
	Gold	18 (45.72)	MC	C3EEG-5018M-ND	14.47	10.97
	Tin	18 (45.72)	MC	C3EET-5018M-ND	12.57	9.53
	Gold	18 (45.72)	GR	C3EEG-5018G-ND	13.90	10.54
	Tin	18 (45.72)	GR	C3EET-5018G-ND	12.01	9.11
	Gold	36 (91.44)	MC	C3EEG-5036M-ND	16.29	12.35
	Tin	36 (91.44)	MC	C3EET-5036M-ND	14.39	10.91
	Gold	36 (91.44)	GR	C3EEG-5036G-ND	15.16	11.50
	Tin	36 (91.44)	GR	C3EET-5036G-ND	13.26	10.06

Socket Connector to PCB Connector

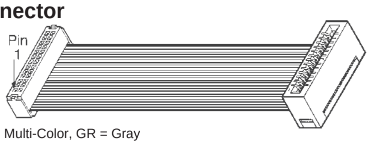


* MC = Multi-Color, GR = Gray

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Tin	6 (15.24)	MC	C3APT-1006M-ND	2.02	1.53
	Tin	6 (15.24)	GR	C3APT-1006G-ND	1.98	1.51
	Tin	18 (45.72)	MC	C3APT-1018M-ND	2.26	1.72
	Tin	18 (45.72)	GR	C3APT-1018G-ND	2.15	1.63
	Tin	36 (91.44)	MC	C3APT-1036M-ND	2.62	1.99
	Tin	36 (91.44)	GR	C3APT-1036G-ND	2.39	1.82
20	Tin	6 (15.24)	MC	C3APT-2006M-ND	3.33	2.53
	Tin	6 (15.24)	GR	C3APT-2006G-ND	3.26	2.47
	Tin	18 (45.72)	MC	C3APT-2018M-ND	3.82	2.90
	Tin	18 (45.72)	GR	C3APT-2018G-ND	3.59	2.73
	Tin	36 (91.44)	MC	C3APT-2036M-ND	4.55	3.45
	Tin	36 (91.44)	GR	C3APT-2036G-ND	4.10	3.11
26	Tin	6 (15.24)	MC	C3APT-2606M-ND	4.12	3.13
	Tin	6 (15.24)	GR	C3APT-2606G-ND	4.03	3.06
	Tin	18 (45.72)	MC	C3APT-2618M-ND	4.76	3.61
	Tin	18 (45.72)	GR	C3APT-2618G-ND	4.47	3.39
	Tin	36 (91.44)	MC	C3APT-2636M-ND	5.70	4.33
	Tin	36 (91.44)	GR	C3APT-2636G-ND	5.12	3.89
34	Tin	6 (15.24)	MC	C3APT-3406M-ND	5.07	3.85
	Tin	6 (15.24)	GR	C3APT-3406G-ND	4.95	3.75
	Tin	18 (45.72)	MC	C3APT-3418M-ND	5.89	4.47
	Tin	18 (45.72)	GR	C3APT-3418G-ND	5.52	4.19
	Tin	36 (91.44)	MC	C3APT-3436M-ND	7.13	5.41
	Tin	36 (91.44)	GR	C3APT-3436G-ND	6.37	4.83
40	Tin	6 (15.24)	MC	C3APT-4006M-ND	5.72	4.34
	Tin	6 (15.24)	GR	C3APT-4006G-ND	5.57	4.23
	Tin	18 (45.72)	MC	C3APT-4018M-ND	6.69	5.08
	Tin	18 (45.72)	GR	C3APT-4018G-ND	6.24	4.74
	Tin	36 (91.44)	MC	C3APT-4036M-ND	8.15	6.18
	Tin	36 (91.44)	GR	C3APT-4036G-ND	7.25	5.50
50	Tin	6 (15.24)	MC	C3APT-5006M-ND	6.99	5.31
	Tin	6 (15.24)	GR	C3APT-5006G-ND	6.80	5.16
	Tin	18 (45.72)	MC	C3APT-5018M-ND	8.21	6.23
	Tin	18 (45.72)	GR	C3APT-5018G-ND	7.64	5.80
	Tin	36 (91.44)	MC	C3APT-5036M-ND	10.03	7.61
	Tin	36 (91.44)	GR	C3APT-5036G-ND	8.90	6.75
60	Tin	6 (15.24)	MC	C3APT-6006M-ND	8.29	6.29
	Tin	6 (15.24)	GR	C3APT-6006G-ND	8.07	6.12
	Tin	18 (45.72)	MC	C3APT-6018M-ND	9.74	7.39
	Tin	18 (45.72)	GR	C3APT-6018G-ND	9.07	6.88
	Tin	36 (91.44)	MC	C3APT-6036M-ND	11.91	9.04
	Tin	36 (91.44)	GR	C3APT-6036G-ND	10.57	8.02

Also available in the following versions:
C3BP□-□□□□□-ND — Socket Connector with Strain Relief.
C3CP□-□□□□□-ND — Socket Connector with Central Polarizing Key.
C3DP□-□□□□□-ND — Socket Connector w. Strain Relief & Central Polarizing Key.
Call for complete part number and pricing!

Socket Connector to Card Edge Connector

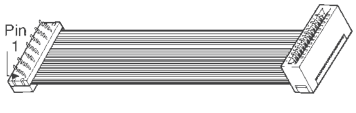


* MC = Multi-Color, GR = Gray

No. of Contacts	Conn. Finish	Length In (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Gold	6 (15.24)	MC	C3AEG-1006M-ND	3.65	2.78
	Tin	6 (15.24)	MC	C3AET-1006M-ND	3.12	2.37
	Gold	6 (15.24)	GR	C3AEG-1006G-ND	3.62	2.75
	Tin	6 (15.24)	GR	C3AET-1006G-ND	3.09	2.34
	Gold	18 (45.72)	MC	C3AEG-1018M-ND	3.90	2.96
	Tin	18 (45.72)	MC	C3AET-1018M-ND	3.37	2.56
	Gold	18 (45.72)	GR	C3AEG-1018G-ND	3.78	2.87
	Tin	18 (45.72)	GR	C3AET-1018G-ND	3.25	2.47
	Gold	36 (91.44)	MC	C3AEG-1036M-ND	4.26	3.23
	Tin	36 (91.44)	MC	C3AET-1036M-ND	3.73	2.83
	Gold	36 (91.44)	GR	C3AEG-1036G-ND	4.03	3.06
	Tin	36 (91.44)	GR	C3AET-1036G-ND	3.50	2.66
20	Gold	6 (15.24)	MC	C3AEG-2006M-ND	5.39	4.09
	Tin	6 (15.24)	MC	C3AET-2006M-ND	4.62	3.50
	Gold	6 (15.24)	GR	C3AEG-2006G-ND	5.31	4.03
	Tin	6 (15.24)	GR	C3AET-2006G-ND	4.54	3.45
	Gold	18 (45.72)	MC	C3AEG-2018M-ND	5.87	4.46
	Tin	18 (45.72)	MC	C3AET-2018M-ND	5.10	3.87
	Gold	18 (45.72)	GR	C3AEG-2018G-ND	5.65	4.29
	Tin	18 (45.72)	GR	C3AET-2018G-ND	4.88	3.70
	Gold	36 (91.44)	MC	C3AEG-2036M-ND	6.60	5.01
	Tin	36 (91.44)	MC	C3AET-2036M-ND	5.83	4.42
	Gold	36 (91.44)	GR	C3AEG-2036G-ND	6.15	4.67
	Tin	36 (91.44)	GR	C3AET-2036G-ND	5.38	4.08
26	Gold	6 (15.24)	MC	C3AEG-2606M-ND	6.48	4.92
	Tin	6 (15.24)	MC	C3AET-2606M-ND	5.56	4.22
	Gold	6 (15.24)	GR	C3AEG-2606G-ND	6.39	4.85
	Tin	6 (15.24)	GR	C3AET-2606G-ND	5.46	4.15
	Gold	18 (45.72)	MC	C3AEG-2618M-ND	7.11	5.40
	Tin	18 (45.72)	MC	C3AET-2618M-ND	6.19	4.70
	Gold	18 (45.72)	GR	C3AEG-2618G-ND	6.82	5.18
	Tin	18 (45.72)	GR	C3AET-2618G-ND	5.90	4.48
	Gold	36 (91.44)	MC	C3AEG-2636M-ND	8.06	6.11
	Tin	36 (91.44)	MC	C3AET-2636M-ND	7.13	5.41
	Gold	36 (91.44)	GR	C3AEG-2636G-ND	7.48	5.68
	Tin	36 (91.44)	GR	C3AET-2636G-ND	6.55	4.97
34	Gold	6 (15.24)	MC	C3AEG-3406M-ND	8.04	6.10
	Tin	6 (15.24)	MC	C3AET-3406M-ND	6.89	5.23
	Gold	6 (15.24)	GR	C3AEG-3406G-ND	7.91	6.00
	Tin	6 (15.24)	GR	C3AET-3406G-ND	6.77	5.13
	Gold	18 (45.72)	MC	C3AEG-3418M-ND	8.86	6.72
	Tin	18 (45.72)	MC	C3AET-3418M-ND	7.71	5.85
	Gold	18 (45.72)	GR	C3AEG-3418G-ND	8.48	6.43
	Tin	18 (45.72)	GR	C3AET-3418G-ND	7.34	5.57
	Gold	36 (91.44)	MC	C3AEG-3436M-ND	10.09	7.65
	Tin	36 (91.44)	MC	C3AET-3436M-ND	8.95	6.79
	Gold	36 (91.44)	GR	C3AEG-3436G-ND	9.34	7.08
	Tin	36 (91.44)	GR	C3AET-3436G-ND	8.19	6.22
40	Gold	6 (15.24)	MC	C3AEG-4006M-ND	9.20	6.98
	Tin	6 (15.24)	MC	C3AET-4006M-ND	7.89	5.99
	Gold	6 (15.24)	GR	C3AEG-4006G-ND	9.05	6.86
	Tin	6 (15.24)	GR	C3AET-4006G-ND	7.74	5.87
	Gold	18 (45.72)	MC	C3AEG-4018M-ND	10.17	7.71
	Tin	18 (45.72)	MC	C3AET-4018M-ND	8.86	6.72
	Gold	18 (45.72)	GR	C3AEG-4018G-ND	9.72	7.37
	Tin	18 (45.72)	GR	C3AET-4018G-ND	8.41	6.38
	Gold	36 (91.44)	MC	C3AEG-4036M-ND	11.62	8.81
	Tin	36 (91.44)	MC	C3AET-4036M-ND	10.32	7.82
	Gold	36 (91.44)	GR	C3AEG-4036G-ND	10.72	8.13
	Tin	36 (91.44)	GR	C3AET-4036G-ND	9.42	7.14
50	Gold	6 (15.24)	MC	C3AEG-5006M-ND	10.65	8.08
	Tin	6 (15.24)	MC	C3AET-5006M-ND	9.14	6.94
	Gold	6 (15.24)	GR	C3AEG-5006G-ND	10.46	7.94
	Tin	6 (15.24)	GR	C3AET-5006G-ND	8.96	6.79
	Gold	18 (45.72)	MC	C3AEG-5018M-ND	11.86	9.00
	Tin	18 (45.72)	MC	C3AET-5018M-ND	10.36	7.86
	Gold	18 (45.72)	GR	C3AEG-5018G-ND	11.30	8.57
	Tin	18 (45.72)	GR	C3AET-5018G-ND	9.79	7.43
	Gold	36 (91.44)	MC	C3AEG-5036M-ND	13.68	10.38
	Tin	36 (91.44)	MC	C3AET-5036M-ND	12.18	9.24
	Gold	36 (91.44)	GR	C3AEG-5036G-ND	12.56	9.52
	Tin	36 (91.44)	GR	C3AET-5036G-ND	11.05	8.38

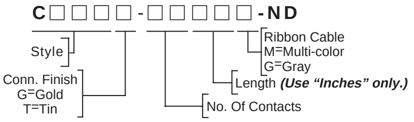
Also available in the following versions:
C3BE□-□□□□□-ND — Socket Connector with Strain Relief.
C3CE□-□□□□□-ND — Socket Connector with Central Polarizing Key.
C3DE□-□□□□□-ND — Socket Connector w. Strain Relief & Central Polarizing Key.
Call for complete part number and pricing!

PCB Connector to Card Edge Connector



* MC = Multi-Color, GR = Gray

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Tin	6 (15.24)	MC	C3PET-1006M-ND	3.42	2.59
	Tin	6 (15.24)	GR	C3PET-1006G-ND	3.38	2.57
	Tin	18 (45.72)	MC	C3PET-1018M-ND	3.66	2.78
	Tin	18 (45.72)	GR	C3PET-1018G-ND	3.54	2.69
	Tin	36 (91.44)	MC	C3PET-1036M-ND	4.02	3.05
	Tin	36 (91.44)	GR	C3PET-1036G-ND	3.79	2.88
20	Tin	6 (15.24)	MC	C3PET-2006M-ND	4.44	3.37
	Tin	6 (15.24)	GR	C3PET-2006G-ND	4.36	3.31
	Tin	18 (45.72)	MC	C3PET-2018M-ND	4.93	3.74
	Tin	18 (45.72)	GR	C3PET-2018G-ND	4.70	3.57
	Tin	36 (91.44)	MC	C3PET-2036M-ND	5.65	4.29
	Tin	36 (91.44)	GR	C3PET-2036G-ND	5.20	3.95
26	Tin	6 (15.24)	MC	C3PET-2606M-ND	5.47	4.15
	Tin	6 (15.24)	GR	C3PET-2606G-ND	5.37	4.08
	Tin	18 (45.72)	MC	C3PET-2618M-ND	6.10	4.63
	Tin	18 (45.72)	GR	C3PET-2618G-ND	5.81	4.41
	Tin	36 (91.44)	MC	C3PET-2636M-ND	7.04	5.34
	Tin	36 (91.44)	GR	C3PET-2636G-ND	6.47	4.91
34	Tin	6 (15.24)	MC	C3PET-3406M-ND	6.76	5.13
	Tin	6 (15.24)	GR	C3PET-3406G-ND	6.63	5.03
	Tin	18 (45.72)	MC	C3PET-3418M-ND	7.58	5.75
	Tin	18 (45.72)	GR	C3PET-3418G-ND	7.20	5.46
	Tin	36 (91.44)	MC	C3PET-3436M-ND	8.81	6.68
	Tin	36 (91.44)	GR	C3PET-3436G-ND	8.06	6.11
40	Tin	6 (15.24)	MC	C3PET-4006M-ND	7.86	5.96
	Tin	6 (15.24)	GR	C3PET-4006G-ND	7.71	5.85
	Tin	18 (45.72)	MC	C3PET-4018M-ND	8.83	6.70
	Tin	18 (45.72)	GR	C3PET-4018G-ND	8.38	6.36
	Tin	36 (91.44)	MC	C3PET-4036M-ND	10.28	7.80
	Tin	36 (91.44)	GR	C3PET-4036G-ND	9.38	7.12
50	Tin	6 (15.24)	MC	C3PET-5006M-ND	9.21	6.98
	Tin	6 (15.24)	GR	C3PET-5006G-ND	9.02	6.84
	Tin	18 (45.72)	MC	C3PET-5018M-ND	10.42	7.90
	Tin	18 (45.72)	GR	C3PET-5018G-ND	9.85	7.48
	Tin	36 (91.44)	MC	C3PET-5036M-ND	12.24	9.28
	Tin	36 (91.44)	GR	C3PET-5036G-ND	11.11	8.43



Digi-Key® Custom Cable Assemblies Available

Call Toll Free: 1-800-344-4539

50-Conductor Ribbon Cable (.635mm Pitch)

(For NANO IDC Connector System)

RIBBON CABLE: 0.635mm (25MIL) pitch flat gray cable with 30AWG (7/0.1mm) conductors is designed to allow terminations to a High Density IDC connector.

Features: • **Capacitance:** Approx. 105pF/m • **Inductance:** Approx. 0.48µH/m • **Impedance:** • Approx. 71Ω • **Propagation Delay Time:** Approx. 5.4ns/m

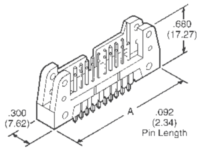
Description	Digi-Key Part No.	Price Each
5 Foot (1.52 Meter) Length	R9029-5-ND	13.00
10 Foot (3.05 Meter) Length	R9029-10-ND	23.20
50 Foot (15.24 Meter) Length	R9029-50-ND	104.00
100 Foot (30.48 Meter) Length	R9029-100-ND	192.00
200 Foot (60.96 Meter) Length	R9029-200-ND	352.00

CW INDUSTRIES

Protected Headers

Straight-Lead

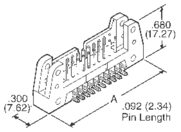
No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)



Lock Ejector Hooks, two required per connector, sold separately (see below).

Right-Angle

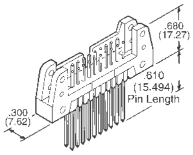
No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)



Lock Ejector Hooks, two required per connector, sold separately (see below).

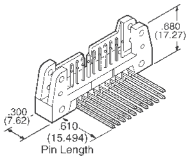
Straight-Lead Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately (see below)



Right-Angle Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately (see below)



SPECIFICATIONS: • **Contacts:** phosphor bronze, standard. • **Contact Plating:** 10µ in. gold (in mating area) over 50µ in. nickel. • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic. • **Color:** blue. • **Operating Temperature:** -55°C to +125°C. • **Current Rating:** 1A (maximum) per contact. • **Dielectric Withstand Voltage:** greater than 500 Vdc at sea level. • **Insulation Resistance:** greater than 5 x 10^9 ohms. • U.S. Defense Department Mil-C-83503/20, 21, approved.

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	1,000
Protected Headers - Gold Finish						
10	Straight-Lead	CHS10G-ND	.99	.76	.58	.42
	Right-Angle	CHR10G-ND	.99	.76	.58	.42
	Straight-Lead WW	CHW10G-ND	2.08	1.58	1.21	.88
	Right-Angle WW	CHA10G-ND	2.08	1.58	1.21	.88
14	Straight-Lead	CHS14G-ND	1.30	.99	.76	.55
	Right-Angle	CHR14G-ND	1.30	.99	.76	.55
	Straight-Lead WW	CHW14G-ND	2.64	2.00	1.53	1.11
	Right-Angle WW	CHA14G-ND	2.64	2.00	1.53	1.11
16	Straight-Lead	CHS16G-ND	1.46	1.11	.85	.62
	Right-Angle	CHR16G-ND	1.46	1.11	.85	.62
	Straight-Lead WW	CHW16G-ND	2.98	2.26	1.73	1.25
	Right-Angle WW	CHA16G-ND	2.98	2.26	1.73	1.25
20	Straight-Lead	CHS20G-ND	1.52	1.16	.89	.64
	Right-Angle	CHR20G-ND	1.52	1.16	.89	.64
	Straight-Lead WW	CHW20G-ND	3.10	2.35	1.80	1.30
	Right-Angle WW	CHA20G-ND	3.10	2.35	1.80	1.30
26	Straight-Lead	CHS26G-ND	1.86	1.41	1.08	.78
	Right-Angle	CHR26G-ND	1.86	1.41	1.08	.78
	Straight-Lead WW	CHW26G-ND	3.72	2.82	2.16	1.56
	Right-Angle WW	CHA26G-ND	3.72	2.82	2.16	1.56
34	Straight-Lead	CHS34G-ND	2.23	1.70	1.30	.94
	Right-Angle	CHR34G-ND	2.23	1.70	1.30	.94
	Straight-Lead WW	CHW34G-ND	4.46	3.39	2.60	1.88
	Right-Angle WW	CHA34G-ND	4.46	3.39	2.60	1.88
40	Straight-Lead	CHS40G-ND	2.73	2.07	1.59	1.15
	Right-Angle	CHR40G-ND	2.73	2.07	1.59	1.15
	Straight-Lead WW	CHW40G-ND	5.43	4.12	3.15	2.28
	Right-Angle WW	CHA40G-ND	5.43	4.12	3.15	2.28
50	Straight-Lead	CHS50G-ND	3.04	2.31	1.77	1.28
	Right-Angle	CHR50G-ND	3.04	2.31	1.77	1.28
	Straight-Lead WW	CHW50G-ND	6.11	4.63	3.55	2.57
	Right-Angle WW	CHA50G-ND	6.11	4.63	3.55	2.57
60	Straight-Lead ST* (Shrouded)	CHB60G-ND	5.08	3.86	2.96	2.14
	Straight-Lead WW* (Shrouded)	CHC60G-ND	5.08	3.86	2.96	2.14
	Right-Angle ST* (Shrouded)	CHD60G-ND	3.72	2.82	2.16	1.56
	Right-Angle WW* (Shrouded)	CHE60G-ND	5.08	3.86	2.96	2.14

CLKS01-ND Lock Ejector Hooks-Short (2 required per connector) . . **$.22/2**
CLKS02-ND Lock Ejector Hooks: Long - with strain relief; (2 required per connector) . . . . **$.22/2**

* Lock ejector hooks included.

AMP tyco Electronics
Authorized Distributor

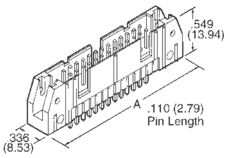
Protected Headers

Specifications:

- Connectors recognized under component program of Underwriters Laboratories Inc. File No. E28476.
- Connectors certified by Canadian Standards Association File No. LR16455.
- .025” (.64mm) Sq. Posts, .240” (6.10mm) Mating Post Length.
- Material and Finish: Housing and Latches — Black thermoplastic, 94V-0 rated.
- Contact Finish: 15µ or 30µ gold on post/pin mating end, .000100-.000200 bright tin-lead on termination end, with entire contact underplated .000050 nickel.

Straight-Lead

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
44	2.96 (75.18)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)



Lock Ejector Hooks, two required per connector, sold separately (see below).

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin Header Without Latches						
10	15µ”	.110 (2.79)	AHS10G-ND	1.02	.85	102153-1
	30µ”	.110 (2.79)	AHS10K-ND	1.11	.93	102154-1
	15µ”	.155 (3.94)	AHJ10G-ND	1.11	.93	102155-1
14	15µ”	.110 (2.79)	AHS14G-ND	1.34	1.12	102153-2
	30µ”	.110 (2.79)	AHS14K-ND	1.43	1.20	102154-2
	15µ”	.155 (3.94)	AHJ14G-ND	1.43	1.20	102155-2
	30µ”	.155 (3.94)	AHJ14K-ND	1.62	1.35	102156-2
16	15µ”	.110 (2.79)	AHS16G-ND	1.53	1.27	102153-3
	30µ”	.110 (2.79)	AHS16K-ND	1.76	1.47	102154-3
	15µ”	.155 (3.94)	AHJ16G-ND	1.76	1.47	102155-3
	30µ”	.155 (3.94)	AHJ16K-ND	1.94	1.62	102156-3
20	15µ”	.110 (2.79)	AHS20G-ND	1.90	1.58	102153-4
	30µ”	.110 (2.79)	AHS20K-ND	2.08	1.74	102154-4
	15µ”	.155 (3.94)	AHJ20G-ND	2.08	1.74	102155-4
	30µ”	.155 (3.94)	AHJ20K-ND	2.31	1.93	102156-4
24	15µ”	.110 (2.79)	AHS24G-ND	2.22	1.85	102153-5
	30µ”	.110 (2.79)	AHS24K-ND	2.45	2.04	102154-5
	15µ”	.155 (3.94)	AHJ24G-ND	2.45	2.04	102155-5
	30µ”	.155 (3.94)	AHJ24K-ND	2.68	2.24	102156-5
26	15µ”	.110 (2.79)	AHS26G-ND	2.41	2.01	102153-6
	30µ”	.110 (2.79)	AHS26K-ND	2.55	2.12	102154-6
	15µ”	.155 (3.94)	AHJ26G-ND	2.55	2.12	102155-6
	30µ”	.155 (3.94)	AHJ26K-ND	2.78	2.31	102156-6
30	15µ”	.110 (2.79)	AHS30G-ND	2.78	2.31	102153-7
	30µ”	.110 (2.79)	AHS30K-ND	2.87	2.39	102154-7
	15µ”	.155 (3.94)	AHJ30G-ND	2.87	2.39	102155-7
34	15µ”	.110 (2.79)	AHS34G-ND	3.05	2.54	102153-8
	30µ”	.110 (2.79)	AHS34K-ND	3.15	2.62	102154-8
	15µ”	.155 (3.94)	AHJ34G-ND	3.15	2.62	102155-8
	30µ”	.155 (3.94)	AHJ34K-ND	3.33	2.77	102156-8
40	15µ”	.110 (2.79)	AHS40G-ND	3.52	2.93	102153-9
	30µ”	.110 (2.79)	AHS40K-ND	3.61	3.01	102154-9
	15µ”	.155 (3.94)	AHJ40G-ND	3.61	3.01	102155-9
	30µ”	.155 (3.94)	AHJ40K-ND	3.84	3.20	102156-9
44	30µ”	.110 (2.79)	AHS44K-ND	3.79	3.16	1-102154-3
50	15µ”	.110 (2.79)	AHS50G-ND	4.16	3.47	1-102153-0
	30µ”	.110 (2.79)	AHS50K-ND	4.26	3.54	1-102154-0
	15µ”	.155 (3.94)	AHJ50G-ND	4.26	3.54	1-102155-0
	30µ”	.155 (3.94)	AHJ50K-ND	4.66	3.87	1-102156-0
60	15µ”	.110 (2.79)	AHS60G-ND	4.87	4.05	1-102153-1
	30µ”	.110 (2.79)	AHS60K-ND	4.97	4.14	1-102154-1
	15µ”	.155 (3.94)	AHJ60G-ND	4.97	4.14	1-102155-1
	30µ”	.155 (3.94)	AHJ60K-ND	5.18	4.31	1-102156-1
64	15µ”	.110 (2.79)	AHS64G-ND	5.01	4.17	1-102153-2
	30µ”	.110 (2.79)	AHS64K-ND	5.11	4.25	1-102154-2
	15µ”	.155 (3.94)	AHJ64G-ND	5.11	4.25	1-102155-2
	30µ”	.155 (3.94)	AHJ64K-ND	5.32	4.43	1-102156-2
Pin Header With ACTION PIN Contacts						
10	30µ”	.174 (4.42)	AHA10A-ND	1.76	1.47	499582-1
14	30µ”	.174 (4.42)	AHA14A-ND	2.41	2.01	499582-2
16	30µ”	.174 (4.42)	AHA16A-ND	2.68	2.24	499582-3
20	30µ”	.174 (4.42)	AHA20A-ND	3.15	2.62	499582-4
24	30µ”	.174 (4.42)	AHA24A-ND	3.79	3.16	499582-5
26	30µ”	.174 (4.42)	AHA26A-ND	3.98	3.31	499582-6
30	30µ”	.174 (4.42)	AHA30A-ND	4.49	3.74	499582-7
34	30µ”	.174 (4.42)	AHA34A-ND	4.94	4.11	499582-8
40	30µ”	.174 (4.42)	AHA40A-ND	5.46	4.54	499582-9
50	30µ”	.174 (4.42)	AHA50A-ND	6.02	5.01	1-499582-0
60	30µ”	.174 (4.42)	AHA60A-ND	6.69	5.56	1-499582-1
64	30µ”	.174 (4.42)	AHA64A-ND	8.19	6.81	1-499582-2

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin Header With Latches - Without Strain Relief						
10	15µ”	.110 (2.79)	AHE10G-ND	1.62	1.35	499910-1
	30µ”	.110 (2.79)	AHE10A-ND	1.71	1.43	499160-1
	30µ”	.155 (3.94)	AHG10A-ND	1.71	1.43	499374-1
14	15µ”	.110 (2.79)	AHE14G-ND	2.22	1.85	499910-2
	30µ”	.155 (3.94)	AHG14A-ND	2.36	1.97	499374-2
16	15µ”	.110 (2.79)	AHE16G-ND	2.45	2.04	499910-3
	30µ”	.110 (2.79)	AHE16A-ND	2.64	2.20	499160-3
	30µ”	.155 (3.94)	AHG16A-ND	2.64	2.20	499374-3
20	15µ”	.110 (2.79)	AHE20G-ND	3.01	2.51	499910-4
	30µ”	.110 (2.79)	AHE20A-ND	5.92	4.92	499160-4
	30µ”	.155 (3.94)	AHG20A-ND	3.19	2.66	499374-4
24	15µ”	.110 (2.79)	AHE24G-ND	3.47	2.89	499910-5
	30µ”	.110 (2.79)	AHE24A-ND	3.79	3.16	499160-5
	30µ”	.155 (3.94)	AHG24A-ND	3.79	3.16	499374-5
26	15µ”	.110 (2.79)	AHE26G-ND	3.70	3.08	499910-6
	30µ”	.110 (2.79)	AHE26A-ND	3.98	3.31	499160-6
	30µ”	.155 (3.94)	AHG26A-ND	3.98	3.31	499374-6
30	15µ”	.110 (2.79)	AHE30G-ND	4.16	3.47	499910-7
	30µ”	.110 (2.79)	AHE30A-ND	4.49	3.74	499160-7
34	15µ”	.110 (2.79)	AHE34G-ND	4.58	3.81	499910-8
	30µ”	.110 (2.79)	AHE34A-ND	4.97	4.14	499160-8
	30µ”	.155 (3.94)	AHG34A-ND	4.97	4.14	499374-8
40	15µ”	.110 (2.79)	AHE40G-ND	5.25	4.37	499910-9
	30µ”	.110 (2.79)	AHE40A-ND	5.71	4.75	499160-9
	30µ”	.155 (3.94)	AHG40A-ND	5.71	4.75	499374-9
50	15µ”	.110 (2.79)	AHE50G-ND	6.37	5.30	1-499910-0
	30µ”	.110 (2.79)	AHE50A-ND	6.93	5.77	1-499160-0
	30µ”	.155 (3.94)	AHG50A-ND	6.93	5.77	1-499374-0
60	15µ”	.110 (2.79)	AHE60G-ND	7.49	6.23	1-499910-1
	30µ”	.110 (2.79)	AHE60A-ND	8.09	6.73	1-499160-1
	30µ”	.155 (3.94)	AHG60A-ND	8.09	6.73	1-499374-1
64	15µ”	.110 (2.79)	AHE64G-ND	7.81	6.49	1-499910-2
	30µ”	.110 (2.79)	AHE64A-ND	8.40	6.99	1-499160-2
Pin Header With Latches - With Strain Relief						
10	15µ”	.110 (2.79)	AHK10G-ND	1.62	1.35	499922-1
	30µ”	.110 (2.79)	AHK10A-ND	1.62	1.35	499206-1
	15µ”	.155 (3.94)	AHL10G-ND	4.83	4.02	499923-1
	30µ”	.155 (3.94)	AHL10A-ND	1.71	1.43	102321-1
14	15µ”	.110 (2.79)	AHK14G-ND	2.22	1.85	499922-2
	30µ”	.110 (2.79)	AHK14A-ND	2.36	1.97	499206-2
	30µ”	.155 (3.94)	AHL14A-ND	2.36	1.97	102321-2
16	15µ”	.110 (2.79)	AHK16G-ND	2.45	2.04	499922-3
	30µ”	.110 (2.79)	AHK16A-ND	2.64	2.20	499206-3
	15µ”	.155 (3.94)	AHL16G-ND	2.45	2.04	499923-3
	30µ”	.155 (3.94)	AHL16A-ND	2.64	2.20	102321-3
20	15µ”	.110 (2.79)	AHK20G-ND	3.01	2.51	499922-4
	30µ”	.110 (2.79)	AHK20A-ND	3.19	2.66	499206-4
	15µ”	.155 (3.94)	AHL20G-ND	2.98	2.48	499923-4
	30µ”	.155 (3.94)	AHL20A-ND	3.19	2.66	102321-4
24	15µ”	.110 (2.79)	AHK24G-ND	3.47	2.89	499922-5
	30µ”	.110 (2.79)	AHK24A-ND	3.79	3.16	499206-5
	30µ”	.155 (3.94)	AHL24A-ND	3.79	3.16	102321-5
26	15µ”	.110 (2.79)	AHK26G-ND	3.70	3.08	499922-6
	30µ”	.110 (2.79)	AHK26A-ND	3.24	2.70	499206-6
	15µ”	.155 (3.94)	AHL26G-ND	3.71	3.09	499923-6
	30µ”	.155 (3.94)	AHL26A-ND	3.98	3.31	102321-6
30	30µ”	.110 (2.79)	AHK30A-ND	4.49	3.74	499206-7
	15µ”	.155 (3.94)	AHL30G-ND	4.17	3.47	499923-7
	30µ”	.155 (3.94)	AHL30A-ND	4.49	3.74	102321-7
34	15µ”	.110 (2.79)	AHK34G-ND	4.58	3.81	499922-8
	30µ”	.110 (2.79)	AHK34A-ND	4.97	4.14	499206-8
	15µ”	.155 (3.94)	AHL34G-ND	4.59	3.82	499923-8
	30µ”	.155 (3.94)	AHL34A-ND	4.97	4.14	102321-8
40	15µ”	.110 (2.79)	AHK40G-ND	5.25	4.37	499922-9
	30µ”	.110 (2.79)	AHK40A-ND	5.71	4.75	499206-9
	15µ”	.155 (3.94)	AHL40G-ND	5.29	4.40	499923-9
	30µ”	.155 (3.94)	AHL40A-ND	5.71	4.75	102321-9
50	15µ”	.110 (2.79)	AHK50G-ND	6.37	5.30	1-499922-0
	30µ”	.110 (2.79)	AHK50A-ND	5.95	4.95	1-499206-0
	15µ”	.155 (3.94)	AHL50G-ND	6.41	5.33	1-499923-0
	30µ”	.155 (3.94)	AHL50A-ND	6.93	5.77	1-102321-0
60	15µ”	.110 (2.79)	AHK60G-ND	7.49	6.23	1-499922-1
	30µ”	.110 (2.79)	AHK60A-ND	8.09	6.73	1-499206-1
	15µ”	.155 (3.94)	AHL60G-ND	7.49	6.23	1-499923-1
	30µ”	.155 (3.94)	AHL60A-ND	8.09	6.73	1-102321-1
64	15µ”	.110 (2.79)	AHK64G-ND	7.81	6.49	1-499922-2
	30µ”	.110 (2.79)	AHK64A-ND	8.40	6.99	1-499206-2
	15µ”	.155 (3.94)	AHL64G-ND	7.77	6.46	1-499923-2
	30µ”	.155 (3.94)	AHL64A-ND	8.40	6.99	1-102321-2
Lock Ejector Hooks (2 Required per Connector)						
Short			ALSN01-ND	$.47/2		102312-1
Long w/o Push Tabs			ALLN01-ND	$.47/2		102320-1
*Pin Header Mounting Kit **						
Bolt and Nut, 2 each/kit			A26333-ND	1.53	—	102198-1

* 2-56 bolts and nuts may be used to mount pin headers with and w/out latches. If latches are to be used, the bolts must be positioned in the pin header before the latches are installed.

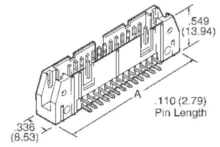
(Continued)

AMP tyco Electronics
Authorized Distributor

Protected Headers *(Cont.)*

Right-Angle

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)



Lock Ejector Hooks, two required per connector, sold separately.

No.of Con-tacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	10	
Right-Angle Pin Headers without Latches						
10	15µ"	.110 (2.79)	AHR10G-ND	1.11	.93	102159-1
	30µ"	.110 (2.79)	AHR10K-ND	1.30	1.08	102160-1
14	15µ"	.110 (2.79)	AHR14G-ND	1.43	1.20	102159-2
	30µ"	.110 (2.79)	AHR14K-ND	1.62	1.35	102160-2
	15µ"	.155 (3.94)	AHZ14G-ND	1.99	1.66	102161-2
	30µ"	.155 (3.94)	AHZ14K-ND	1.85	1.54	102162-2
16	15µ"	.110 (2.79)	AHR16G-ND	1.76	1.47	102159-3
	30µ"	.110 (2.79)	AHR16K-ND	2.17	1.81	102160-3
	15µ"	.155 (3.94)	AHZ16G-ND	2.22	1.85	102161-3
20	15µ"	.110 (2.79)	AHR20G-ND	2.08	1.74	102159-4
	30µ"	.110 (2.79)	AHR20K-ND	2.31	1.93	102160-4
	15µ"	.155 (3.94)	AHZ20G-ND	2.73	2.27	102161-4
	30µ"	.155 (3.94)	AHZ20K-ND	2.45	2.04	102162-4
24	30µ"	.110 (2.79)	AHR24K-ND	2.68	2.24	102160-5
	15µ"	.155 (3.94)	AHZ24G-ND	3.19	2.66	102161-5
26	15µ"	.110 (2.79)	AHR26G-ND	2.55	2.12	102159-6
	30µ"	.110 (2.79)	AHR26K-ND	2.78	2.31	102160-6
	15µ"	.155 (3.94)	AHZ26G-ND	3.38	2.81	102161-6
	30µ"	.155 (3.94)	AHZ26K-ND	3.01	2.51	102162-6
30	15µ"	.110 (2.79)	AHR30G-ND	2.87	2.39	102159-7
	30µ"	.110 (2.79)	AHR30K-ND	3.05	2.54	102160-7
	15µ"	.155 (3.94)	AHZ30G-ND	3.79	3.16	102161-7
	30µ"	.155 (3.94)	AHZ30K-ND	3.38	2.81	102162-7
34	15µ"	.110 (2.79)	AHR34G-ND	3.15	2.62	102159-8
	30µ"	.110 (2.79)	AHR34K-ND	3.33	2.77	102160-8
	15µ"	.155 (3.94)	AHZ34G-ND	4.21	3.51	102161-8
	30µ"	.155 (3.94)	AHZ34K-ND	3.75	3.12	102162-8
40	15µ"	.110 (2.79)	AHR40G-ND	3.61	3.01	102159-9
	30µ"	.110 (2.79)	AHR40K-ND	3.84	3.20	102160-9
	30µ"	.155 (3.94)	AHZ40K-ND	4.26	3.54	102162-9
50	15µ"	.110 (2.79)	AHR50G-ND	4.26	3.54	1-102159-0
	30µ"	.110 (2.79)	AHR50K-ND	4.66	3.87	1-102160-0
	15µ"	.155 (3.94)	AHZ50G-ND	5.92	4.92	1-102161-0
	30µ"	.155 (3.94)	AHZ50K-ND	5.18	4.31	1-102162-0
60	15µ"	.110 (2.79)	AHR60G-ND	4.97	4.12	1-102159-1
	30µ"	.110 (2.79)	AHR60K-ND	5.18	4.31	1-102160-1
	15µ"	.155 (3.94)	AHZ60G-ND	6.93	5.77	1-102161-1
	30µ"	.155 (3.94)	AHZ60K-ND	5.95	4.95	1-102162-1
64	15µ"	.110 (2.79)	AHR64G-ND	5.11	4.25	1-102159-2
	30µ"	.110 (2.79)	AHR64K-ND	5.32	4.43	1-102160-2
	15µ"	.155 (3.94)	AHZ64G-ND	7.21	6.00	1-102161-2
	30µ"	.155 (3.94)	AHZ64K-ND	6.20	5.16	1-102162-2
Headers with Short Latches						
10	15µ"	.110 (2.79)	AHB10G-ND	1.71	1.43	499913-1
	30µ"	.110 (2.79)	AHB10K-ND	5.43	4.52	499345-1
14	15µ"	.110 (2.79)	AHB14G-ND	2.36	1.97	499913-2
	30µ"	.110 (2.79)	AHB14K-ND	6.44	5.36	499345-2
16	15µ"	.110 (2.79)	AHB16G-ND	2.64	2.20	499913-3
	30µ"	.110 (2.79)	AHB16K-ND	2.87	2.39	499345-3
20	15µ"	.110 (2.79)	AHB20G-ND	3.19	2.66	499913-4
	30µ"	.110 (2.79)	AHB20K-ND	3.52	2.93	499345-4
24	15µ"	.110 (2.79)	AHB24G-ND	3.79	3.16	499913-5
	30µ"	.110 (2.79)	AHB24K-ND	4.16	3.47	499345-5
26	15µ"	.110 (2.79)	AHB26G-ND	3.98	3.31	499913-6
	30µ"	.110 (2.79)	AHB26K-ND	4.40	3.66	499345-6
30	15µ"	.110 (2.79)	AHB30G-ND	4.49	3.74	499913-7
34	15µ"	.110 (2.79)	AHB34G-ND	4.97	4.14	499913-8
	30µ"	.110 (2.79)	AHB34K-ND	5.46	4.54	499345-8
40	15µ"	.110 (2.79)	AHB40G-ND	5.15	4.28	499913-9
	30µ"	.110 (2.79)	AHB40K-ND	6.23	5.18	499345-9
50	15µ"	.110 (2.79)	AHB50G-ND	6.93	5.77	1-499913-0
	30µ"	.110 (2.79)	AHB50K-ND	7.63	6.35	1-499345-0
60	15µ"	.110 (2.79)	AHB60G-ND	8.09	6.73	1-499913-1
	30µ"	.110 (2.79)	AHB60K-ND	8.93	7.43	1-499345-1
64	15µ"	.110 (2.79)	AHB64G-ND	8.40	6.99	1-499913-2
	30µ"	.110 (2.79)	AHB64K-ND	9.31	7.75	1-499345-2
Headers with Long Latches						
10	15µ"	.110 (2.79)	AHC10G-ND	1.71	1.43	499786-1
	30µ"	.110 (2.79)	AHC10K-ND	1.90	1.58	499141-1
	30µ"	.155 (3.94)	AHT10K-ND	2.08	1.74	102322-1
14	15µ"	.110 (2.79)	AHC14G-ND	2.36	1.97	499786-2
	30µ"	.110 (2.79)	AHC14K-ND	2.59	2.16	499141-2
	30µ"	.155 (3.94)	AHT14K-ND	2.87	2.39	102322-2
16	15µ"	.110 (2.79)	AHC16G-ND	2.64	2.20	499786-2
	30µ"	.110 (2.79)	AHC16K-ND	2.87	2.39	499141-3
	30µ"	.155 (3.94)	AHT16K-ND	3.15	2.62	102322-3
20	15µ"	.110 (2.79)	AHC20G-ND	3.19	2.66	499786-4
	30µ"	.110 (2.79)	AHC20K-ND	3.52	2.93	499141-4
	30µ"	.155 (3.94)	AHT20K-ND	3.89	3.24	102322-4
24	15µ"	.110 (2.79)	AHC24G-ND	3.79	3.16	499786-5
	30µ"	.110 (2.79)	AHC24K-ND	4.16	3.47	499141-5
26	15µ"	.110 (2.79)	AHC26G-ND	3.98	3.31	499786-6
	30µ"	.110 (2.79)	AHC26K-ND	4.40	3.66	499141-6
	30µ"	.155 (3.94)	AHT26K-ND	4.83	4.02	102322-6
30	15µ"	.110 (2.79)	AHC30G-ND	4.49	3.74	499786-7
	30µ"	.110 (2.79)	AHC30K-ND	8.54	7.10	499141-7
34	15µ"	.110 (2.79)	AHC34G-ND	4.97	4.14	499786-8
	30µ"	.110 (2.79)	AHC34K-ND	5.46	4.54	499141-8
	30µ"	.155 (3.94)	AHT34K-ND	5.95	4.95	102322-8
40	15µ"	.110 (2.79)	AHC40G-ND	5.71	4.75	499786-9
	30µ"	.110 (2.79)	AHC40K-ND	6.23	5.18	499141-9
	30µ"	.155 (3.94)	AHT40K-ND	6.93	5.77	102322-9
50	15µ"	.110 (2.79)	AHC50G-ND	6.93	5.77	1-499786-0
	30µ"	.110 (2.79)	AHC50K-ND	7.63	6.35	1-499141-0
	30µ"	.155 (3.94)	AHT50K-ND	8.40	6.99	1-102322-0
60	15µ"	.110 (2.79)	AHC60G-ND	11.66	9.69	1-499786-1
	30µ"	.110 (2.79)	AHC60K-ND	8.93	7.43	1-499141-1
	30µ"	.155 (3.94)	AHT60K-ND	9.80	8.15	1-102322-1
64	15µ"	.110 (2.79)	AHC64G-ND	8.40	6.99	1-499786-2
	30µ"	.110 (2.79)	AHC64K-ND	9.31	7.75	1-499141-2
	30µ"	.155 (3.94)	AHT64K-ND	10.26	8.53	1-102322-2
Lock Ejector Hooks (2 Required per Connector)						
Short			ALSN01-ND	$.47/2		102312-1
Long w/o Push Tabs			ALLN01-ND	$.47/2		102320-1

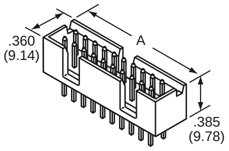
AMP tyco Electronics
Authorized Distributor

Low Profile - 4 Sided Protective Headers - .100 x .100 Centers

Specifications:

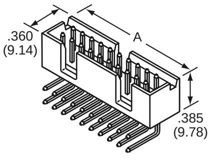
- .025" (.64mm) Sq. Posts, .240" (6.10mm) Mating Post Length.
- Material and Finish: Housing and Latches — Black thermo-plastic, 94V-0 rated.
- Contact Finish: 15µ or 30µ gold on post/pin mating end, 100µ-200µ bright tin-lead on termination end, with entire contact underplated 50µ nickel.

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
24	1.40 (35.56)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)



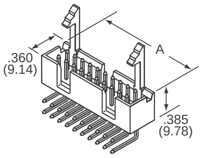
No.of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each		AMP Part No.
			1	100	
Shrouded with .150" (3.81mm) End Dimension Double Row - Straight Post					
10	15µ"	A26267-ND	.44	.36	103308-1
	30µ"	A26268-ND	.53	.43	103309-1
14	15µ"	A26269-ND	.58	.48	103308-2
	30µ"	A26270-ND	.82	.67	103309-2
16	15µ"	A26271-ND	.82	.67	103308-3
	30µ"	A26272-ND	.90	.74	103309-3
20	15µ"	A26273-ND	.78	.63	103308-5
	30µ"	A26274-ND	.94	.77	103309-5
26	15µ"	A26275-ND	.92	.75	103308-6
	30µ"	A26276-ND	1.11	.90	103309-6
34	15µ"	A26277-ND	1.19	.97	103308-7
	30µ"	A26278-ND	1.28	1.04	103309-7
40	15µ"	A26279-ND	1.39	1.13	103308-8
	30µ"	A26280-ND	1.93	1.57	103309-8
50	15µ"	A26281-ND	1.33	1.08	1-103308-0
	30µ"	A26282-ND	1.69	1.38	1-103309-0
60	15µ"	A26283-ND	2.42	1.96	1-103308-2
	30µ"	A26284-ND	2.86	2.32	1-103309-2
High Temp. Housing with Board Retention Feature					
10	15µ"	A26844-ND	1.17	.84	104338-1
14	15µ"	A26845-ND	1.35	.97	104338-2
16	15µ"	A26846-ND	1.56	1.12	104338-3
20	15µ"	A26847-ND	1.78	1.28	104338-4
24	15µ"	A26848-ND	2.04	1.47	104338-5
34	15µ"	A26849-ND	2.61	1.88	104338-7
40	15µ"	A26850-ND	2.62	1.88	104338-8
50	15µ"	A26851-ND	3.25	2.34	104338-9

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)



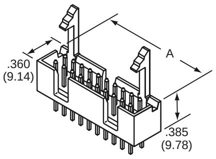
No.of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each		AMP Part No.
			1	100	
Shrouded with .150" (3.81mm) End Dimension Double Row - Right-Angle Post					
10	15µ"	A26285-ND	.59	.48	103310-1
	30µ"	A26286-ND	.65	.53	103311-1
14	15µ"	A26287-ND	.78	.63	103310-2
	30µ"	A26288-ND	1.41	1.14	103311-2
16	15µ"	A26289-ND	.65	.53	103310-3
	30µ"	A26290-ND	.95	.77	103311-3
20	15µ"	A26291-ND	1.03	.84	103310-5
	30µ"	A26292-ND	1.00	.81	103311-5
26	15µ"	A26293-ND	1.24	1.01	103310-6
	30µ"	A26294-ND	1.39	1.13	103311-6
34	15µ"	A26295-ND	1.58	1.28	103310-7
	30µ"	A26296-ND	1.79	1.45	103311-7
40	15µ"	A26297-ND	1.79	1.45	103310-8
	30µ"	A26298-ND	1.83	1.49	103311-8
50	15µ"	A26299-ND	1.94	1.58	1-103310-0
	30µ"	A26300-ND	2.39	1.94	1-103311-0
60	15µ"	A26915-ND	3.63	2.61	1-103310-2
	30µ"	A26913-ND	4.17	2.99	1-103311-2

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)



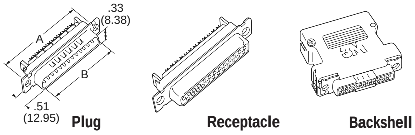
No.of Con-tacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	100	
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Right Angle Post						
10	30µ"	.585 (14.9)	A26301-ND	2.01	1.63	104130-1
	30µ"	.435 (11.0)	A26302-ND	2.00	1.62	104315-1
14	30µ"	.585 (14.9)	A26303-ND	2.18	1.77	104130-2
16	30µ"	.585 (14.9)	A26304-ND	2.29	1.86	104130-3
20	30µ"	.585 (14.9)	A26305-ND	2.48	2.01	104130-4
26	30µ"	.585 (14.9)	A26306-ND	2.79	2.27	104130-5
	30µ"	.435 (11.0)	A26307-ND	2.75	2.23	104315-5
34	30µ"	.585 (14.9)	A26308-ND	3.13	2.54	104130-6
40	30µ"	.585 (14.9)	A26309-ND	3.34	2.71	104130-7
	30µ"	.435 (11.0)	A26310-ND	3.34	2.71	104315-7
50	30µ"	.585 (14.9)	A26311-ND	3.78	3.06	104130-9
	30µ"	.435 (11.0)	A26312-ND	3.74	3.03	104315-9

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)



No.of Con-tacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	100	
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Straight Post						
10	30µ"	.585 (14.9)	A26313-ND	1.92	1.56	104128-1
	30µ"	.435 (11.0)	A26314-ND	1.92	1.56	104313-1
14	30µ"	.585 (14.9)	A26315-ND	2.16	1.76	104128-2
	30µ"	.435 (11.0)	A26316-ND	2.16	1.76	104313-2
16	30µ"	.585 (14.9)	A26317-ND	2.25	1.82	104128-3
	30µ"	.435 (11.0)	A26318-ND	2.25	1.82	104313-3
20	30µ"	.585 (14.9)	A26319-ND	2.42	1.96	104128-4
	30µ"	.435 (11.0)	A26320-ND	2.42	1.96	104313-4
26	30µ"	.585 (14.9)	A26321-ND	2.56	2.08	104128-5
	30µ"	.435 (11.0)	A26322-ND	2.69	2.18	104313-5
34	30µ"	.585 (14.9)	A26323-ND	3.05	2.47	104128-6
	30µ"	.435 (11.0)	A26324-ND	3.05	2.47	104313-6
40	30µ"	.585 (14.9)	A26325-ND	3.28	2.66	104128-7
	30µ"	.435 (11.0)	A26326-ND	3.28	2.66	104313-7
50	30µ"	.585 (14.9)	A26327-ND	3.65	2.96	104128-9
	30µ"	.435 (11.0)	A26328-ND	3.65	2.96	104313-9
60	30µ"	.585 (14.9)	A26329-ND	1.93	1.57	1-104128-0
	30µ"	.435 (11.0)	A26330-ND	4.20	3.40	1-104313-0

3M D-Subminiature Connectors



Wire Accommodation: 26 & 28 AWG solid and stranded.
Order strain reliefs separately.

Physical: • Contact Material: Beryllium Copper Plating • Underplate: 50µ" Nickel — QQ-N-290, Class 2 • Wiping Area: 30µ" Gold — MIL-G-45204, Type II, Grade C • Shell Material: Steel, Plating: Tin • Strain Relief Material: Stainless Steel .016" (.41mm) Thick • Marking: 3M logo and Contact Position Numbers. **Electrical:** • Current Rating: 1 amp. • Insulation Resistance: >1x10^9 Ω @ 500 VDC. • Withstanding Voltage: 1000VRMS @ sea level. **Environmental:** • Temperature Rating: -55°C to +105°C. UL File No.: E68080, CSA File No.: LR-40971.

No. of Cont.	Dim. – In. (mm)		Digi-Key Part No.	Pricing		3M Part No.
	A	B		1	10	
Plugs with flange, thru-hole style, Male						
9	.98 (24.89)	.67 (17.02)	MMR09K-ND	5.01	42.18	8209-6000
15	1.31 (33.27)	1.00 (25.40)	MMR15K-ND	5.70	47.95	8215-6000
25	1.85 (46.99)	1.54 (39.12)	MMR25K-ND	6.47	54.43	8225-6000
37	2.50 (63.50)	2.18 (55.37)	MMR37K-ND	8.36	70.35	8237-6000
Plugs with 4-40 threaded insert, Male						
9	.98 (24.89)	.67 (17.02)	MML09K-ND	6.14	51.63	8209-6003
15	1.31 (33.27)	1.00 (25.40)	MML15K-ND	6.82	57.40	8215-6003
25	1.85 (46.99)	1.54 (39.12)	MML25K-ND	7.36	61.95	8225-6003
37	2.50 (63.50)	2.18 (55.37)	MML37K-ND	9.13	76.83	8237-6003
50	2.40 (60.96)	2.074 (52.68)	MML50K-ND	18.20	153.13	8250-6005
Receptacles with flange, thru-hole style, Female						
9	.98 (24.89)	.67 (17.02)	MFR09K-ND	5.14	43.23	8309-6000
15	1.31 (33.27)	.97 (24.64)	MFR15K-ND	5.91	49.70	8315-6000
25	1.85 (46.99)	1.51 (38.35)	MFR25K-ND	6.57	55.30	8325-6000
37	2.50 (63.50)	2.16 (54.86)	MFR37K-ND	8.49	71.40	8337-6000
Receptacles with 4-40 threaded insert, Female						
9	.98 (24.89)	.67 (17.02)	MFL09K-ND	6.26	52.68	8309-6003
15	1.31 (33.27)	.97 (24.64)	MFL15K-ND	7.03	59.15	8315-6003
25	1.85 (46.99)	1.51 (38.35)	MFL25K-ND	7.47	62.83	8325-6003
37	2.50 (63.50)	2.16 (54.86)	MFL37K-ND	9.13	76.83	8337-6003
50	2.40 (60.96)	2.068(52.53)	MFL50K-ND	18.20	153.13	8350-6005
Backshells						
9	—	—	MDBF09-ND	3.12	26.25	3485-2100F
15	—	—	MDBF15-ND	3.12	26.25	3485-2200F
25	—	—	MDBF25-ND	3.12	26.25	3485-2300F
37	—	—	MDBF37-ND	3.12	26.25	3485-2400F
50	—	—	MDBF50-ND	3.12	26.25	3485-2500F
Strain Relief						
9	—	—	MDSR09-ND	.25	2.10	3448-8D09A
15	—	—	MDSR15-ND	.25	2.10	3448-8D15A
25	—	—	MDSR25-ND	.25	2.10	3448-8D25A
37	—	—	MDSR37-ND	.25	2.10	3448-8D37A
50	—	—	MDSR50-ND	.25	2.10	3448-8D50A

Series 89 D-Subminiature Connectors

We've designed these standard-performance D-Sub connectors to reduce costs and save assembly time.

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability rating: UL94V-0 • Color: Gray • Marking: Molded figures 3M Logo, part identification number and contact position number • Shell Material: Steel • Plating: Tin • Design: Pin Connector with dimples • Fastening: Through Hole and 4-40 Insert • Contact Material: Copper Alloy • Contact Plating: Wipe area 15µ" average gold over nickel • Wire Accommodation: 26 & 28 AWG Solid or Stranded. **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1 x 10Ω @ 500 VDC • Withstanding Voltage: 1000V$_{RMS}$ @ Sea Level. **Environmental Specifications:** • Operating Temperature: -55°C to +105°C

No. of Cont.	Dim. – In. (mm)		Digi-Key Part No.	Pricing		3M Part No.
	A	B		1	10	
D-Sub Connectors, Male						
9	.98 (24.89)	.67 (17.02)	MMR09G-ND	4.59	37.34	89809-8000
15	1.31 (33.27)	1.00 (25.40)	MMR15G-ND	5.92	48.17	89815-8000
25	1.85 (46.99)	1.54 (39.12)	MMR25G-ND	6.41	52.16	89825-8000
37	2.50 (63.50)	2.18 (55.37)	MMR37G-ND	8.68	70.68	89837-8000
D-Sub Connectors, Male, Insert						
9	.98 (24.89)	.67 (17.02)	MML09G-ND	5.08	41.33	89809-8003
15	1.31 (33.27)	1.00 (25.40)	MML15G-ND	6.34	51.59	89815-8003
25	1.85 (46.99)	1.54 (39.12)	MML25G-ND	6.79	55.29	89825-8003
37	2.50 (63.50)	2.18 (55.37)	MML37G-ND	8.96	72.96	89837-8003
D-Sub Connectors, Female						
9	.98 (24.89)	.67 (17.02)	MFR09G-ND	4.24	34.49	89909-8000
15	1.31 (33.27)	1.00 (25.40)	MFR15G-ND	5.25	42.75	89915-8000
25	1.85 (46.99)	1.54 (39.12)	MFR25G-ND	5.74	46.74	89925-8000
37	2.50 (63.50)	2.18 (55.37)	MFR37G-ND	7.39	60.14	89937-8000
D-Sub Connectors, Female, Insert						
9	.98 (24.89)	.67 (17.02)	MFL09G-ND	4.38	35.63	89909-8003
15	1.31 (33.27)	1.00 (25.40)	MFL15G-ND	5.71	46.46	89915-8003
25	1.85 (46.99)	1.54 (39.12)	MFL25G-ND	6.16	50.16	89925-8003
37	2.50 (63.50)	2.18 (55.37)	MFL37G-ND	7.77	63.27	89937-8003
Strain Relief						
9	—	—	MDSR09-ND	.25	—	3448-8D09A
15	—	—	MDSR15-ND	.25	—	3448-8D15A
25	—	—	MDSR25-ND	.25	—	3448-8D25A
37	—	—	MDSR37-ND	.25	—	3448-8D37A

M□□□□-□□□□□-ND

Style
7□□ (D-Sub)

Conn. Finish
G = Gold ≤15µ
K = Gold >15µ Gold- Copper
beryllium pin plating

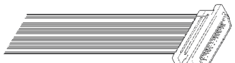
No. Of Contacts

Length ***(Use "Feet" only.)***

Ribbon Cable
R=Multi-color
J=Gray

D-Sub Cable Assemblies

Single Ended Male

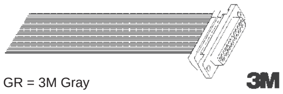


*MC = 3M Multi-Color, GR = 3M Gray

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7PXK-0906R-ND	11.40	100.01
	Au 15µ"	6 (1.83)	MC	M7PXG-0906R-ND	7.63	66.95
	Au 30µ"	6 (1.83)	GR	M7PXK-0906J-ND	10.42	91.41
	Au 15µ"	6 (1.83)	GR	M7PXG-0906J-ND	6.65	58.35
	Au 30µ"	10 (3.05)	MC	M7PXK-0910R-ND	13.53	118.61
	Au 15µ"	10 (3.05)	MC	M7PXG-0910R-ND	9.76	85.55
	Au 30µ"	10 (3.05)	GR	M7PXK-0910J-ND	11.89	104.27
	Au 15µ"	10 (3.05)	GR	M7PXG-0910J-ND	8.12	71.21
15	Au 30µ"	6 (1.83)	MC	M7PXK-1506R-ND	14.52	127.32
	Au 15µ"	6 (1.83)	MC	M7PXG-1506R-ND	10.85	95.12
	Au 30µ"	6 (1.83)	GR	M7PXK-1506J-ND	12.95	113.53
	Au 15µ"	6 (1.83)	GR	M7PXG-1506J-ND	9.27	81.33
	Au 30µ"	10 (3.05)	MC	M7PXK-1510R-ND	17.92	157.10
	Au 15µ"	10 (3.05)	MC	M7PXG-1510R-ND	14.24	124.90
	Au 30µ"	10 (3.05)	GR	M7PXK-1510J-ND	15.29	134.12
	Au 15µ"	10 (3.05)	GR	M7PXG-1510J-ND	11.62	101.92
25	Au 30µ"	6 (1.83)	MC	M7PXK-2506R-ND	18.77	164.62
	Au 15µ"	6 (1.83)	MC	M7PXG-2506R-ND	14.32	125.57
	Au 30µ"	6 (1.83)	GR	M7PXK-2506J-ND	16.22	142.25
	Au 15µ"	6 (1.83)	GR	M7PXG-2506J-ND	11.77	103.20
	Au 30µ"	10 (3.05)	MC	M7PXK-2510R-ND	24.29	212.99
	Au 15µ"	10 (3.05)	MC	M7PXG-2510R-ND	19.84	173.94
	Au 30µ"	10 (3.05)	GR	M7PXK-2510J-ND	20.04	175.71
	Au 15µ"	10 (3.05)	GR	M7PXG-2510J-ND	15.58	136.67
37	Au 30µ"	6 (1.83)	MC	M7PXK-3706R-ND	25.46	223.24
	Au 15µ"	6 (1.83)	MC	M7PXG-3706R-ND	20.06	175.93
	Au 30µ"	6 (1.83)	GR	M7PXK-3706J-ND	21.83	191.41
	Au 15µ"	6 (1.83)	GR	M7PXG-3706J-ND	16.43	144.10
	Au 30µ"	10 (3.05)	MC	M7PXK-3710R-ND	33.31	292.08
	Au 15µ"	10 (3.05)	MC	M7PXG-3710R-ND	27.91	244.77
	Au 30µ"	10 (3.05)	GR	M7PXK-3710J-ND	27.26	239.03
	Au 15µ"	10 (3.05)	GR	M7PXG-3710J-ND	21.86	191.72

Also available in the following configurations:
M7NX□-□□□□□-ND – Metal Shell Connector with Threaded Insert.
M7VX□-□□□□□-ND – Metal Shell Connector with Threaded Insert & Strain Relief.
Call for complete part number and pricing!

Single Ended Female

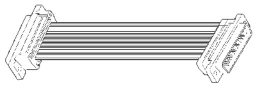


*MC = 3M Multi-Color, GR = 3M Gray

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7SXK-0906R-ND	11.60	101.72
	Au 15µ"	6 (1.83)	MC	M7SXG-0906R-ND	7.31	64.10
	Au 30µ"	6 (1.83)	GR	M7SXK-0906J-ND	10.62	93.12
	Au 15µ"	6 (1.83)	GR	M7SXG-0906J-ND	6.33	55.50
	Au 30µ"	10 (3.05)	MC	M7SXK-0910R-ND	13.72	120.32
	Au 15µ"	10 (3.05)	MC	M7SXG-0910R-ND	9.43	82.70
	Au 30µ"	10 (3.05)	GR	M7SXK-0910J-ND	12.09	105.98
	Au 15µ"	10 (3.05)	GR	M7SXG-0910J-ND	7.80	68.36
15	Au 30µ"	6 (1.83)	MC	M7SXK-1506R-ND	14.84	130.17
	Au 15µ"	6 (1.83)	MC	M7SXG-1506R-ND	10.26	89.99
	Au 30µ"	6 (1.83)	GR	M7SXK-1506J-ND	13.27	116.38
	Au 15µ"	6 (1.83)	GR	M7SXG-1506J-ND	8.69	76.20
	Au 30µ"	10 (3.05)	MC	M7SXK-1510R-ND	18.24	159.95
	Au 15µ"	10 (3.05)	MC	M7SXG-1510R-ND	13.66	119.77
	Au 30µ"	10 (3.05)	GR	M7SXK-1510J-ND	15.62	136.97
	Au 15µ"	10 (3.05)	GR	M7SXG-1510J-ND	11.04	96.79
25	Au 30µ"	6 (1.83)	MC	M7SXK-2506R-ND	18.93	166.04
	Au 15µ"	6 (1.83)	MC	M7SXG-2506R-ND	13.73	120.44
	Au 30µ"	6 (1.83)	GR	M7SXK-2506J-ND	16.38	143.67
	Au 15µ"	6 (1.83)	GR	M7SXG-2506J-ND	11.18	98.07
	Au 30µ"	10 (3.05)	MC	M7SXK-2510R-ND	24.45	214.41
	Au 15µ"	10 (3.05)	MC	M7SXG-2510R-ND	19.25	168.81
	Au 30µ"	10 (3.05)	GR	M7SXK-2510J-ND	20.20	177.14
	Au 15µ"	10 (3.05)	GR	M7SXG-2510J-ND	15.00	131.54
37	Au 30µ"	6 (1.83)	MC	M7SXK-3706R-ND	25.65	224.95
	Au 15µ"	6 (1.83)	MC	M7SXG-3706R-ND	19.49	170.90
	Au 30µ"	6 (1.83)	GR	M7SXK-3706J-ND	22.02	193.12
	Au 15µ"	6 (1.83)	GR	M7SXG-3706J-ND	15.86	139.07
	Au 30µ"	10 (3.05)	MC	M7SXK-3710R-ND	33.50	293.79
	Au 15µ"	10 (3.05)	MC	M7SXG-3710R-ND	27.34	239.74
	Au 30µ"	10 (3.05)	GR	M7SXK-3710J-ND	27.45	240.74
	Au 15µ"	10 (3.05)	GR	M7SXG-3710J-ND	21.29	186.69

Also available in the following configurations:
M7OX□-□□□□□-ND – Metal Shell Connector w/ Threaded Insert.
M7WX□-□□□□□-ND – Metal Shell Connector w/ Threaded Insert & Strain Relief.
Call for complete part number and pricing!

Male to Male

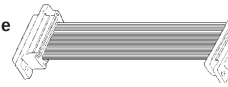


*MC = 3M Multi-Color, GR = 3M Gray

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7PPK-0906R-ND	19.63	172.11
	Au 15µ"	6 (1.83)	MC	M7PPG-0906R-ND	12.09	105.99
	Au 30µ"	6 (1.83)	GR	M7PPK-0906J-ND	18.65	163.51
	Au 15µ"	6 (1.83)	GR	M7PPG-0906J-ND	11.11	97.39
	Au 30µ"	10 (3.05)	MC	M7PPK-0910R-ND	21.75	190.71
	Au 15µ"	10 (3.05)	MC	M7PPG-0910R-ND	14.21	124.59
	Au 30µ"	10 (3.05)	GR	M7PPK-0910J-ND	20.11	176.38
	Au 15µ"	10 (3.05)	GR	M7PPG-0910J-ND	12.57	110.26
15	Au 30µ"	6 (1.83)	MC	M7PPK-1506R-ND	23.94	209.97
	Au 15µ"	6 (1.83)	MC	M7PPG-1506R-ND	16.60	145.56
	Au 30µ"	6 (1.83)	GR	M7PPK-1506J-ND	22.37	196.18
	Au 15µ"	6 (1.83)	GR	M7PPG-1506J-ND	15.03	131.77
	Au 30µ"	10 (3.05)	MC	M7PPK-1510R-ND	27.34	239.75
	Au 15µ"	10 (3.05)	MC	M7PPG-1510R-ND	20.00	175.34
	Au 30µ"	10 (3.05)	GR	M7PPK-1510J-ND	24.72	216.77
	Au 15µ"	10 (3.05)	GR	M7PPG-1510J-ND	17.37	152.36
25	Au 30µ"	6 (1.83)	MC	M7PPK-2506R-ND	29.27	256.67
	Au 15µ"	6 (1.83)	MC	M7PPG-2506R-ND	20.36	178.58
	Au 30µ"	6 (1.83)	GR	M7PPK-2506J-ND	26.72	234.30
	Au 15µ"	6 (1.83)	GR	M7PPG-2506J-ND	17.81	156.21
	Au 30µ"	10 (3.05)	MC	M7PPK-2510R-ND	34.79	305.04
	Au 15µ"	10 (3.05)	MC	M7PPG-2510R-ND	25.88	226.95
	Au 30µ"	10 (3.05)	GR	M7PPK-2510J-ND	30.53	267.77
	Au 15µ"	10 (3.05)	GR	M7PPG-2510J-ND	21.63	189.68
37	Au 30µ"	6 (1.83)	MC	M7PPK-3706R-ND	39.14	343.23
	Au 15µ"	6 (1.83)	MC	M7PPG-3706R-ND	28.35	248.61
	Au 30µ"	6 (1.83)	GR	M7PPK-3706J-ND	35.51	311.40
	Au 15µ"	6 (1.83)	GR	M7PPG-3706J-ND	24.72	216.78
	Au 30µ"	10 (3.05)	MC	M7PPK-3710R-ND	46.99	412.06
	Au 15µ"	10 (3.05)	MC	M7PPG-3710R-ND	36.20	317.44
	Au 30µ"	10 (3.05)	GR	M7PPK-3710J-ND	40.94	359.01
	Au 15µ"	10 (3.05)	GR	M7PPG-3710J-ND	30.15	264.39

Also available in the following configurations:
M7NN□-□□□□□-ND – Metal Shell Connector w/ Threaded Insert.
M7VV□-□□□□□-ND – Metal Shell Connector w/ Threaded Insert & Strain Relief.
Call for complete part number and pricing!

Female to Female



*MC = 3M Multi-Color, GR = 3M Gray

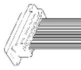
No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7SSK-0906R-ND	20.02	175.53
	Au 15µ"	6 (1.83)	MC	M7SSG-0906R-ND	11.44	100.29
	Au 30µ"	6 (1.83)	GR	M7SSK-0906J-ND	19.04	166.93
	Au 15µ"	6 (1.83)	GR	M7SSG-0906J-ND	10.46	91.69
	Au 30µ"	10 (3.05)	MC	M7SSK-0910R-ND	22.14	194.13
	Au 15µ"	10 (3.05)	MC	M7SSG-0910R-ND	13.56	118.89
	Au 30µ"	10 (3.05)	GR	M7SSK-0910J-ND	20.50	179.80
	Au 15µ"	10 (3.05)	GR	M7SSG-0910J-ND	11.92	104.56
15	Au 30µ"	6 (1.83)	MC	M7SSK-1506R-ND	24.59	215.67
	Au 15µ"	6 (1.83)	MC	M7SSG-1506R-ND	15.43	135.30
	Au 30µ"	6 (1.83)	GR	M7SSK-1506J-ND	23.02	201.88
	Au 15µ"	6 (1.83)	GR	M7SSG-1506J-ND	13.86	121.51
	Au 30µ"	10 (3.05)	MC	M7SSK-1510R-ND	27.99	245.45
	Au 15µ"	10 (3.05)	MC	M7SSG-1510R-ND	18.83	165.08
	Au 30µ"	10 (3.05)	GR	M7SSK-1510J-ND	25.37	222.47
	Au 15µ"	10 (3.05)	GR	M7SSG-1510J-ND	16.20	142.10
25	Au 30µ"	6 (1.83)	MC	M7SSK-2506R-ND	29.59	259.52
	Au 15µ"	6 (1.83)	MC	M7SSG-2506R-ND	19.19	168.32
	Au 30µ"	6 (1.83)	GR	M7SSK-2506J-ND	27.04	237.15
	Au 15µ"	6 (1.83)	GR	M7SSG-2506J-ND	16.64	145.95
	Au 30µ"	10 (3.05)	MC	M7SSK-2510R-ND	35.11	307.89
	Au 15µ"	10 (3.05)	MC	M7SSG-2510R-ND	24.71	216.69
	Au 30µ"	10 (3.05)	GR	M7SSK-2510J-ND	30.86	270.62
	Au 15µ"	10 (3.05)	GR	M7SSG-2510J-ND	20.46	179.42
37	Au 30µ"	6 (1.83)	MC	M7SSK-3706R-ND	39.53	346.65
	Au 15µ"	6 (1.83)	MC	M7SSG-3706R-ND	27.20	238.55
	Au 30µ"	6 (1.83)	GR	M7SSK-3706J-ND	35.90	314.82
	Au 15µ"	6 (1.83)	GR	M7SSG-3706J-ND	23.57	206.72
	Au 30µ"	10 (3.05)	MC	M7SSK-3710R-ND	47.38	415.48
	Au 15µ"	10 (3.05)	MC	M7SSG-3710R-ND	35.05	307.39
	Au 30µ"	10 (3.05)	GR	M7SSK-3710J-ND	41.33	362.43
	Au 15µ"	10 (3.05)	GR	M7SSG-3710J-ND	29.00	254.34

Also available in the following configurations:
M7OO□-□□□□□-ND – Metal Shell Connector w/ Threaded Insert.
M7WW□-□□□□□-ND – Metal Shell Connector w/ Threaded Insert & Strain Relief.
Call for complete part number and pricing!

(Continued)

3M D-Sub Cable Assemblies *(Cont.)*

Male to Female



***MC = 3M Multi-Color, GR = 3M Gray**

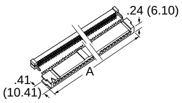
No. of Con-tacts	Conn. Finish	Length Feet (meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ”	6 (1.83)	MC	M7PSK-0906R-ND	19.82	173.82
	Au 15µ”	6 (1.83)	MC	M7PSG-0906R-ND	11.76	103.14
	Au 30µ”	6 (1.83)	GR	M7PSK-0906J-ND	18.84	165.22
	Au 15µ”	6 (1.83)	GR	M7PSG-0906J-ND	10.78	94.54
	Au 30µ”	10 (3.05)	MC	M7PSK-0910R-ND	21.94	192.42
	Au 15µ”	10 (3.05)	MC	M7PSG-0910R-ND	13.88	121.74
	Au 30µ”	10 (3.05)	GR	M7PSK-0910J-ND	20.31	178.09
	Au 15µ”	10 (3.05)	GR	M7PSG-0910J-ND	12.25	107.41
15	Au 30µ”	6 (1.83)	MC	M7PSK-1506R-ND	24.27	212.82
	Au 15µ”	6 (1.83)	MC	M7PSG-1506R-ND	16.01	140.43
	Au 30µ”	6 (1.83)	GR	M7PSK-1506J-ND	22.70	199.03
	Au 15µ”	6 (1.83)	GR	M7PSG-1506J-ND	14.44	126.64
	Au 30µ”	10 (3.05)	MC	M7PSK-1510R-ND	27.67	242.60
	Au 15µ”	10 (3.05)	MC	M7PSG-1510R-ND	19.41	170.21
	Au 30µ”	10 (3.05)	GR	M7PSK-1510J-ND	25.04	219.62
	Au 15µ”	10 (3.05)	GR	M7PSG-1510J-ND	16.79	147.23
25	Au 30µ”	6 (1.83)	MC	M7PSK-2506R-ND	29.43	258.10
	Au 15µ”	6 (1.83)	MC	M7PSG-2506R-ND	19.78	173.45
	Au 30µ”	6 (1.83)	GR	M7PSK-2506J-ND	26.88	235.73
	Au 15µ”	6 (1.83)	GR	M7PSG-2506J-ND	17.23	151.08
	Au 30µ”	10 (3.05)	MC	M7PSK-2510R-ND	34.95	306.47
	Au 15µ”	10 (3.05)	MC	M7PSG-2510R-ND	25.30	221.82
	Au 30µ”	10 (3.05)	GR	M7PSK-2510J-ND	30.70	269.19
	Au 15µ”	10 (3.05)	GR	M7PSG-2510J-ND	21.04	184.55
37	Au 30µ”	6 (1.83)	MC	M7PSK-3706R-ND	39.33	344.94
	Au 15µ”	6 (1.83)	MC	M7PSG-3706R-ND	27.78	243.58
	Au 30µ”	6 (1.83)	GR	M7PSK-3706J-ND	35.71	313.11
	Au 15µ”	6 (1.83)	GR	M7PSG-3706J-ND	24.15	211.75
	Au 30µ”	10 (3.05)	MC	M7PSK-3710R-ND	47.18	413.77
	Au 15µ”	10 (3.05)	MC	M7PSG-3710R-ND	35.63	312.42
	Au 30µ”	10 (3.05)	GR	M7PSK-3710J-ND	41.14	360.72
	Au 15µ”	10 (3.05)	GR	M7PSG-3710J-ND	29.58	259.37

Also available in the following configurations:

M7NO□-□□□□□-ND – Metal Shell Connector w/ Threaded Insert.
M7VW□-□□□□□-ND – Metal Shell Connector w/ Threaded Insert & Strain Relief.

Call for complete part number and pricing!

3M .100” x .100” (2.54mm x 2.54mm) Socket Connectors



Wire Accommodation: 26, 28, 30 AWG solid or stranded.

Physical: • Insulation Material: Glass reinforced polyester. Flammability rating: UL 94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30µ” gold • Wire Accommodation: 26 & 28 AWG solid or stranded, 30 AWG solid • Marking: 3M logo, Part Identification Number and Orientation Triangle. **Electrical:** • Current Rating: 1A • Insulation Resistance: >1x10^{9}Ω @ 500 VDC • Withstanding Voltage: 1000VRMS @ sea level. **Environmental:** • Temp. Rating: -55°C to +105°C. UL File No.: E68080; CSA File No.: LR-40971.

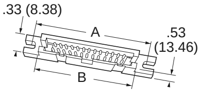
No. of Contacts	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	3M Part No.
Polarizing Slots (Open End)					
10	.68 (17.27)	MSC10K-ND	1.93	16.28	3473-6000
14	.88 (22.35)	MSC14K-ND	2.35	19.78	3385-6000
16	.98 (24.89)	MSC16K-ND	2.56	21.53	3452-6000
20	1.18 (29.97)	MSC20K-ND	2.83	23.80	3421-6000
24	1.38 (35.05)	MSC24K-ND	3.39	28.53	3626-6000
26	1.48 (37.59)	MSC26K-ND	3.66	30.80	3399-6000
30	1.68 (42.67)	MSC30K-ND	4.20	35.35	3419-6000
34	1.88 (47.75)	MSC34K-ND	4.76	40.08	3414-6000
40	2.18 (55.37)	MSC40K-ND	5.60	47.08	3417-6000
50	2.68 (68.07)	MSC50K-ND	6.99	58.80	3425-6000
60	3.18 (80.77)	MSC60K-ND	8.65	72.80	3334-6000
Center-Bumped Polarizing (Open End)					
10	.68 (17.27)	MKC10K-ND	1.93	16.28	3473-6600
14	.88 (22.35)	MKC14K-ND	2.35	19.78	3385-6600
16	.98 (24.89)	MKC16K-ND	2.56	21.53	3452-6600
20	1.18 (29.97)	MKC20K-ND	2.83	23.80	3421-6600
24	1.38 (35.05)	MKC24K-ND	3.39	28.53	3626-6600
26	1.48 (37.59)	MKC26K-ND	3.66	30.80	3399-6600
30	1.68 (42.67)	MKC30K-ND	4.20	35.35	3419-6600
34	1.88 (47.75)	MKC34K-ND	4.76	40.08	3414-6600
40	2.18 (55.37)	MKC40K-ND	5.60	47.08	3417-6600
50	2.68 (68.07)	MKC50K-ND	6.99	58.80	3425-6600
60	3.18 (80.77)	MKC60K-ND	8.65	72.80	3334-6600
Center-Bumped Polarizing (Closed End)					
10	.68 (17.27)	MSD10K-ND	2.06	17.33	3473-7600
14	.88 (22.35)	MSD14K-ND	2.58	21.70	3385-7600
16	.98 (24.89)	MSD16K-ND	2.70	22.75	3452-7600
20	1.18 (29.97)	MSD20K-ND	2.97	25.03	3421-7600
24	1.38 (35.05)	MSD24K-ND	3.56	29.93	3626-7600
26	1.48 (37.59)	MSD26K-ND	3.85	32.38	3399-7600
30	1.68 (42.67)	MSD30K-ND	4.41	37.10	3419-7600
34	1.88 (47.75)	MSD34K-ND	4.97	41.83	3414-7600
40	2.18 (55.37)	MSD40K-ND	5.82	49.00	3417-7600
50	2.68 (68.07)	MSD50K-ND	7.26	61.08	3425-7600
60	3.18 (80.77)	MSD60K-ND	8.99	75.60	3334-7600
Cable Strain Relief/Stabilizer					
10	—	MSSR10-ND	.25	2.10	3448-3010
14	—	MSSR14-ND	.25	2.10	3448-3014
16	—	MSSR16-ND	.25	2.10	3448-3016
20	—	MSSR20-ND	.25	2.10	3448-3020
24	—	MSSR24-ND	.25	2.10	3448-3024
26	—	MSSR26-ND	.25	2.10	3448-3026
30	—	MSSR30-ND	.25	2.10	3448-3030
34	—	MSSR34-ND	.25	2.10	3448-3034
40	—	MSSR40-ND	.25	2.10	3448-3040
50	—	MSSR50-ND	.25	2.10	3448-3050
60	—	MSSR60-ND	.25	2.10	3448-3060

3M Series 89, .100” x .100” (2.54mm x 2.54mm) Socket Connectors

These high-quality, standard-performance IDC sockets minimize applied assembly costs without sacrificing reliability. The Series 89 IDC socket is part of a new line of standard-performance interconnects specifically designed to help electronic equipment manufacturers hold down applied assembly costs. These interconnects also offer the quality and reliability you'd expect from 3M. They have been engineered with a “systems” approach that has a positive impact on your process and product costs. **Physical Specifications:** • Insulation Material: Glass filled polyester (PBT), flammability rating: UL94V-0 • Color: Gray • Marking: Molded figures: 3M Logo and Orientation Triangle • Pins are Phosphor Bronze • Contact Plating: Wipe Area: 30µ” Gold: - MIL-G-45204. Type 11, Grade C. Under Plate: 100µ” Nickel-QQ-N-290, Class 2 • Wire Accommodation: 28 AWG Stranded. **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10^{9}Ω @ 500 VDC • Withstanding Voltage: 1000VRMS @ Sea Level. **Environmental Specifications:** • Operating Temperature: -55°C to +105°C. **UL File No.:** E68080, **CSA File No.:** LR40971

No. of Contacts	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	3M Part No.
IDC Socket Gold					
10	.68 (17.27)	MSC10A-ND	.53	4.28	89110-0001
14	.88 (22.35)	MSC14A-ND	.74	5.99	89114-0001
16	.98 (24.89)	MSC16A-ND	.84	6.84	89116-0001
20	1.18 (29.97)	MSC20A-ND	1.05	8.55	89120-0001
24	1.38 (35.05)	MSC24A-ND	1.26	10.26	89124-0001
26	1.48 (37.59)	MSC26A-ND	1.37	11.12	89126-0001
30	1.68 (42.67)	MSC30A-ND	1.58	12.83	89130-0001
34	1.88 (47.75)	MSC34A-ND	1.79	14.54	89134-0001
40	2.18 (55.37)	MSC40A-ND	2.10	17.10	89140-0001
50	2.68 (68.07)	MSC50A-ND	2.63	21.38	89150-0001
60	3.18 (80.77)	MSC60A-ND	3.15	25.65	89160-0001
IDC Socket Gold, Polarizing					
10	.68 (17.27)	MKC10A-ND	.53	4.28	89110-0101
14	.88 (22.35)	MKC14A-ND	.74	5.99	89114-0101
16	.98 (24.89)	MKC16A-ND	.84	6.84	89116-0101
20	1.18 (29.97)	MKC20A-ND	1.05	8.55	89120-0101
24	1.38 (35.05)	MKC24A-ND	1.26	10.26	89124-0101
26	1.48 (37.59)	MKC26A-ND	1.37	11.12	89126-0101
30	1.68 (42.67)	MKC30A-ND	1.58	12.83	89130-0101
34	1.88 (47.75)	MKC34A-ND	1.79	14.54	89134-0101
40	2.18 (55.37)	MKC40A-ND	2.10	17.10	89140-0101
50	2.68 (68.07)	MKC50A-ND	2.63	21.38	89150-0101
60	3.18 (80.77)	MKC60A-ND	3.15	25.65	89160-0101
Strain Relief					
10	—	MKSR10-ND	.21	1.71	3448-89110
14	—	MKSR14-ND	.21	1.71	3448-89114
16	—	MKSR16-ND	.21	1.71	3448-89116
20	—	MKSR20-ND	.21	1.71	3448-89120
24	—	MKSR24-ND	.21	1.71	3448-89124
26	—	MKSR26-ND	.21	1.71	3448-89126
30	—	MKSR30-ND	.21	1.71	3448-89130
34	—	MKSR34-ND	.21	1.71	3448-89134
40	—	MKSR40-ND	.21	1.71	3448-89140
50	—	MKSR50-ND	.21	1.71	3448-89150
60	—	MKSR60-ND	.21	1.71	3448-89160

3M .100” x .100” (2.54mm x 2.54mm) Plug Connectors

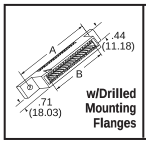


Wire Accommodation: 26 & 28 AWG solid or stranded, 30 AWG solid.

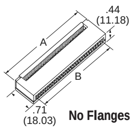
Physical: • Insulation Material: Glass reinforced polyester. Flammability rating: UL 94V-0. • Color: Gray. • Contact Material: Flat Cable Connectors are Beryllium Copper • Plating: 30µ” Gold. Latch Eject Headers are Copper Alloy. **Electrical:** • Current Rating: 1 amp. • Insulation Resistance: >1x10^9 Ω @ 500 VDC. • Withstanding Voltage: 1000VRMS @ sea level. **Environmental:** • Temperature Rating: -55°C to +105°C. UL File No.: E68080, CSA File No.: LR-40971.

No. of Cont.	Dim. – In. (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
With Slotted Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPL10K-ND	2.81	23.63	4610-6050
14	1.40 (35.56)	1.10 (27.94)	MPL14K-ND	3.89	32.73	4614-6000
16	1.50 (38.10)	1.20 (30.48)	MPL16K-ND	4.41	37.10	4616-6000
20	1.70 (43.18)	1.40 (35.56)	MPL20K-ND	5.14	43.23	4620-6000
24	1.90 (48.26)	1.60 (40.64)	MPL24K-ND	5.66	47.60	4624-6000
26	2.00 (50.80)	1.70 (43.18)	MPL26K-ND	5.84	49.18	4626-6000
30	2.20 (55.88)	1.90 (48.26)	MPL30K-ND	6.43	54.08	4630-6000
34	2.40 (60.96)	2.10 (53.34)	MPL34K-ND	7.26	61.08	4634-6000
36	2.50 (63.50)	2.20 (55.88)	MPL36K-ND	7.68	64.58	4636-6000
40	2.70 (68.58)	2.40 (60.96)	MPL40K-ND	8.05	67.73	4640-6000
50	3.20 (81.28)	2.90 (73.66)	MPL50K-ND	8.72	73.33	4650-6000
60	3.70 (93.98)	3.40 (86.36)	MPL60K-ND	10.28	86.45	4660-6000
64	3.90 (99.06)	3.60 (91.44)	MPL64K-ND	10.96	92.23	4664-6000
Without Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPK10K-ND	2.81	23.63	4610-6051
14	1.40 (35.56)	1.10 (27.94)	MPK14K-ND	3.89	32.73	4614-6001
16	1.50 (38.10)	1.20 (30.48)	MPK16K-ND	4.41	37.10	4616-6001
20	1.70 (43.18)	1.40 (35.56)	MPK20K-ND	5.14	43.23	4620-6001
24	1.90 (48.26)	1.60 (40.64)	MPK24K-ND	5.66	47.60	4624-6001
26	2.00 (50.80)	1.70 (43.18)	MPK26K-ND	5.84	49.18	4626-6001
30	2.20 (55.88)	1.90 (48.26)	MPK30K-ND	6.43	54.08	4630-6001
34	2.40 (60.96)	2.10 (53.34)	MPK34K-ND	7.26	61.08	4634-6001
36	2.50 (63.50)	2.20 (55.88)	MPK36K-ND	7.68	64.58	4636-6001
40	2.70 (68.58)	2.40 (60.96)	MPK40K-ND	8.05	67.73	4640-6001
50	3.20 (81.28)	2.90 (73.66)	MPK50K-ND	8.72	73.33	4650-6001
60	3.70 (93.98)	3.40 (86.36)	MPK60K-ND	10.28	86.45	4660-6001
64	3.90 (99.06)	3.60 (91.44)	MPK64K-ND	10.96	92.23	4664-6001
Strain Reliefs						
10	—	—	MPSR10-ND	.46	3.85	3448-4610
14	—	—	MPSR14-ND	.46	3.85	3448-4614
16	—	—	MPSR16-ND	.46	3.85	3448-4616
20	—	—	MPSR20-ND	.46	3.85	3448-4620
24	—	—	MPSR24-ND	.46	3.85	3448-4624
26	—	—	MPSR26-ND	.46	3.85	3448-4626
30	—	—	MPSR30-ND	.46	3.85	3448-4630
34	—	—	MPSR34-ND	.46	3.85	3448-4634
36	—	—	MPSR36-ND	.46	3.85	3448-4636
40	—	—	MPSR40-ND	.46	3.85	3448-4640
50	—	—	MPSR50-ND	.46	3.85	3448-4650
60	—	—	MPSR60-ND	.46	3.85	3448-4660
64	—	—	MPSR64-ND	.46	3.85	3448-4664
Lock Eject. Hooks (Short)			MDLKS1-ND	.29/2	1.23	3505-16
Lock Eject. Hooks (Long)			MDLKS2-ND	.33/2	1.40	3505-17

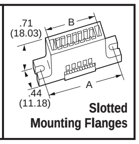
3M .100” (2.54mm) Card Edge Connectors



w/Drilled Mounting Flanges



No Flanges



Slotted Mounting Flanges

Physical: • Insulation Material: Glass reinforced polyester. Flammability rating: UL 94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30µ” Gold • Marking: 3M logo, Part Identification Number. **Electrical:** • Current Rating: 1 amp • Insulation Resistance: >1x10^{9}Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level. **Environmental:** • Temperature Rating: -55°C to +105°C. UL File No.: E68080, CSA File No.: LR-40971.

Wire Accommodation: 26AWG solid or stranded, 28AWG solid or stranded, 30 AWG solid. *Order strain reliefs separately.*

No. of Cont.	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
With Drilled Mounting Flanges						
10	1.40 (35.56)	.612 (15.54)	MCF10K-ND	3.02	25.38	3358-0000
16	1.70 (43.18)	.912 (23.16)	MCF16K-ND	3.72	31.33	3368-0000
20	1.90 (48.26)	1.112 (28.24)	MCF20K-ND	4.62	38.85	3461-0000
26	2.20 (55.88)	1.412 (35.86)	MCF26K-ND	5.47	46.03	3462-0000
34	2.60 (66.04)	1.812 (46.02)	MCF34K-ND	6.36	53.55	3463-0000
40	2.90 (73.66)	2.112 (53.64)	MCF40K-ND	7.80	65.63	3464-0000
50	3.40 (86.36)	2.612 (66.34)	MCF50K-ND	8.03	67.55	3415-0000
60	3.90 (99.06)	3.112 (79.04)	MCF60K-ND	10.11	85.05	3666-0000
64	4.10 (104.14)	3.312 (84.12)	MCF64K-ND	10.28	86.45	3403-0000
Without Flanges						
10	.96 (24.38)	.612 (15.54)	MCE10K-ND	3.02	25.38	3358-0001
16	1.26 (32.00)	.912 (23.16)	MCE16K-ND	3.72	31.33	3368-0001
20	1.46 (37.08)	1.112 (28.24)	MCE20K-ND	4.62	38.85	3461-0001
26	1.76 (44.70)	1.412 (35.86)	MCE26K-ND	5.47	46.03	3462-0001
34	2.16 (54.86)	1.812 (46.02)	MCE34K-ND	6.36	53.55	3463-0001
40	2.46 (62.48)	2.112 (53.64)	MCE40K-ND	7.80	65.63	3464-0001
50	2.96 (75.18)	2.612 (66.34)	MCE50K-ND	8.03	67.55	3415-0001
60	3.46 (87.88)	3.112 (79.04)	MCE60K-ND	10.11	85.05	3666-0001
64	3.66 (92.96)	3.312 (84.12)	MCE64K-ND	10.28	86.45	3403-0001
With Slotted Mounting Flanges						
10	1.30 (33.02)	.612 (15.54)	MCS10K-ND	3.02	25.38	3358-0002
16	1.60 (40.64)	.912 (23.16)	MCS16K-ND	3.72	31.33	3368-0002
20	1.80 (45.72)	1.112 (28.24)	MCS20K-ND	4.62	38.85	3461-0002
26	2.10 (53.34)	1.412 (35.86)	MCS26K-ND	5.47	46.03	3462-0002
34	2.50 (63.50)	1.812 (46.02)	MCS34K-ND	6.36	53.55	3463-0002
40	2.80 (71.12)	2.112 (53.64)	MCS40K-ND	7.80	65.63	3464-0002
50	3.30 (83.82)	2.612 (66.34)	MCS50K-ND	8.03	67.55	3415-0002
60	3.80 (96.52)	3.112 (79.04)	MCS60K-ND	10.11	85.05	3666-0002
64	4.00 (101.60)	3.312 (84.12)	MCS64K-ND	10.28	86.45	3403-0002
Strain Reliefs						
10	—	—	MCSR10-ND	1.02	8.58	3448-52
16	—	—	MCSR16-ND	1.02	8.58	3448-53
20	—	—	MCSR20-ND	1.02	8.58	3448-54
26	—	—	MCSR26-ND	1.02	8.58	3448-55
34	—	—	MCSR34-ND	1.02	8.58	3448-56
40	—	—	MCSR40-ND	1.02	8.58	3448-57
50	—	—	MCSR50-ND	1.02	8.58	3448-58
60	—	—	MCSR60-ND	2.60	21.88	3448-31
64	—	—	MCSR64-ND	1.02	8.58	3448-59

M□□□□-□□□□□-ND

Style
1□□ Single Ended
3□□ Double Ended

Conn. Finish
A = Gold >15µ phosphor bronze
G = Gold ≤15µ phosphor bronze
K = Gold >15µ Gold- Copper beryllium pin plating

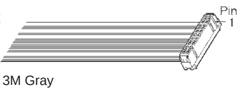
No. Of Contacts

Length *(Use “Inches” only.)*

Ribbon Cable
R=Multi-color
J=Gray
K=Twisted Pair

3M Termination Jumpers

Single Ended Socket Connector



***MC = 3M Multi-Color, GR = 3M Gray**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ”	36 (91.44)	MC	M1AXK-1036R-ND	4.61	40.46
	Au 15µ”	36 (91.44)	MC	M1AXA-1036R-ND	2.08	18.23
	Au 30µ”	36 (91.44)	GR	M1AXK-1036J-ND	4.12	36.16
	Au 15µ”	36 (91.44)	GR	M1AXA-1036J-ND	1.59	13.93
14	Au 30µ”	36 (91.44)	MC	M1AXK-1436R-ND	5.90	51.74
	Au 15µ”	36 (91.44)	MC	M1AXA-1436R-ND	2.91	25.52
	Au 30µ”	36 (91.44)	GR	M1AXK-1436J-ND	5.21	45.72
	Au 15µ”	36 (91.44)	GR	M1AXA-1436J-ND	2.22	19.50
16	Au 30µ”	36 (91.44)	MC	M1AXK-1636R-ND	6.54	57.39
	Au 15µ”	36 (91.44)	MC	M1AXA-1636R-ND	3.33	29.18
	Au 30µ”	36 (91.44)	GR	M1AXK-1636J-ND	5.76	50.50
	Au 15µ”	36 (91.44)	GR	M1AXA-1636J-ND	2.54	22.28
20	Au 30µ”	36 (91.44)	MC	M1AXK-2036R-ND	7.60	66.66
	Au 15µ”	36 (91.44)	MC	M1AXA-2036R-ND	4.16	36.45
	Au 30µ”	36 (91.44)	GR	M1AXK-2036J-ND	6.62	58.07
	Au 15µ”	36 (91.44)	GR	M1AXA-2036J-ND	3.18	27.86

(Continued)

3M Termination Jumpers

Single Ended Socket Connector *(Cont.)*

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
24	Au 30µ"	36 (91.44)	MC	M1AXK-2436R-ND	9.12	79.94
	Au 15µ"	36 (91.44)	MC	M1AXA-2436R-ND	4.99	43.75
	Au 30µ"	36 (91.44)	GR	M1AXK-2436J-ND	7.94	69.62
	Au 15µ"	36 (91.44)	GR	M1AXA-2436J-ND	3.81	33.42
26	Au 30µ"	36 (91.44)	MC	M1AXK-2636R-ND	9.86	86.44
	Au 15µ"	36 (91.44)	MC	M1AXA-2636R-ND	5.40	47.40
	Au 30µ"	36 (91.44)	GR	M1AXK-2636J-ND	8.58	75.26
	Au 15µ"	36 (91.44)	GR	M1AXA-2636J-ND	4.13	36.21
30	Au 30µ"	36 (91.44)	MC	M1AXK-3036R-ND	11.97	105.00
	Au 15µ"	36 (91.44)	MC	M1AXA-3036R-ND	6.87	60.25
	Au 30µ"	36 (91.44)	GR	M1AXK-3036J-ND	10.31	90.39
	Au 15µ"	36 (91.44)	GR	M1AXA-3036J-ND	5.20	45.64
34	Au 30µ"	36 (91.44)	MC	M1AXK-3436R-ND	12.85	112.69
	Au 15µ"	36 (91.44)	MC	M1AXA-3436R-ND	7.07	61.96
	Au 30µ"	36 (91.44)	GR	M1AXK-3436J-ND	11.18	98.08
	Au 15µ"	36 (91.44)	GR	M1AXA-3436J-ND	5.40	47.35
40	Au 30µ"	36 (91.44)	MC	M1AXK-4036R-ND	15.11	132.47
	Au 15µ"	36 (91.44)	MC	M1AXA-4036R-ND	8.31	72.91
	Au 30µ"	36 (91.44)	GR	M1AXK-4036J-ND	13.15	115.27
	Au 15µ"	36 (91.44)	GR	M1AXA-4036J-ND	6.35	55.71
50	Au 30µ"	36 (91.44)	MC	M1AXK-5036R-ND	18.87	165.52
	Au 15µ"	36 (91.44)	MC	M1AXA-5036R-ND	10.39	91.13
	Au 30µ"	36 (91.44)	GR	M1AXK-5036J-ND	16.42	144.02
	Au 15µ"	36 (91.44)	GR	M1AXA-5036J-ND	7.94	69.63
60	Au 30µ"	36 (91.44)	MC	M1AXK-6036R-ND	23.07	202.27
	Au 15µ"	36 (91.44)	MC	M1AXA-6036R-ND	12.47	109.36
	Au 30µ"	36 (91.44)	GR	M1AXK-6036J-ND	20.12	176.47
	Au 15µ"	36 (91.44)	GR	M1AXA-6036J-ND	9.53	83.56

Also available in the following configurations:
M1BX☐-☐☐36☐-ND – Standard Open End w/ Strain Relief.
M1CX☐-☐☐36☐-ND – Standard Open End w/ Polarizing Key.
M1DX☐-☐☐36☐-ND – Standard Open End w/ Polarizing Key & Strain Relief.
M1TXK-☐☐36☐-ND – Standard Closed End w/ Polarizing Key.
M1UXK-☐☐36☐-ND – Standard Closed End w/ Polarizing Key & Strain Relief.
Call for complete part number and pricing!

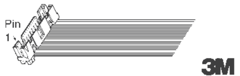
Single Ended Socket Connector

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	40 (101.60)	TW	M1AXK-1040K-ND	4.99	43.80
	Au 15µ"	40 (101.60)	TW	M1AXA-1040K-ND	2.46	21.57
14	Au 30µ"	40 (101.60)	TW	M1AXK-1440K-ND	6.43	56.41
	Au 15µ"	40 (101.60)	TW	M1AXA-1440K-ND	3.44	30.19
16	Au 30µ"	40 (101.60)	TW	M1AXK-1640K-ND	7.15	62.72
	Au 15µ"	40 (101.60)	TW	M1AXA-1640K-ND	3.93	34.50
20	Au 30µ"	40 (101.60)	TW	M1AXK-2040K-ND	8.36	73.34
	Au 15µ"	40 (101.60)	TW	M1AXA-2040K-ND	4.92	43.13
26	Au 30µ"	40 (101.60)	TW	M1AXK-2640K-ND	10.85	95.11
	Au 15µ"	40 (101.60)	TW	M1AXA-2640K-ND	6.39	56.07
34	Au 30µ"	40 (101.60)	TW	M1AXK-3440K-ND	14.15	124.05
	Au 15µ"	40 (101.60)	TW	M1AXA-3440K-ND	8.36	73.32
40	Au 30µ"	40 (101.60)	TW	M1AXK-4040K-ND	16.63	145.83
	Au 15µ"	40 (101.60)	TW	M1AXA-4040K-ND	9.84	86.26
50	Au 30µ"	40 (101.60)	TW	M1AXK-5040K-ND	20.78	182.21
	Au 15µ"	40 (101.60)	TW	M1AXA-5040K-ND	12.30	107.82
60	Au 30µ"	40 (101.60)	TW	M1AXK-6040K-ND	25.35	222.30
	Au 15µ"	40 (101.60)	TW	M1AXA-6040K-ND	14.76	129.39

Also available in the following configurations:
M1BX☐-☐☐40K-ND – Standard Open End w/ Strain Relief.
M1CX☐-☐☐40K-ND – Standard Open End w/ Polarizing Key.
M1DX☐-☐☐40K-ND – Standard Open End w/ Polarizing Key & Strain Relief.
M1TXK-☐☐40K-ND – Standard Closed End w/ Polarizing Key.
M1UXK-☐☐40K-ND – Standard Closed End w/ Polarizing Key & Strain Relief.
Call for complete part number and pricing!

Plug Connector Single Ended



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	36 (91.44)	MC	M1KXK-1036R-ND	5.98	52.43
	Au 30µ"	36 (91.44)	GR	M1KXK-1036J-ND	5.49	48.13
14	Au 30µ"	36 (91.44)	MC	M1KXK-1436R-ND	8.31	72.83
	Au 30µ"	36 (91.44)	GR	M1KXK-1436J-ND	7.62	66.81
16	Au 30µ"	36 (91.44)	MC	M1KXK-1636R-ND	9.44	82.76
	Au 30µ"	36 (91.44)	GR	M1KXK-1636J-ND	8.65	75.86
20	Au 30µ"	36 (91.44)	MC	M1KXK-2036R-ND	11.21	98.30
	Au 30µ"	36 (91.44)	GR	M1KXK-2036J-ND	10.23	89.70
24	Au 30µ"	36 (91.44)	MC	M1KXK-2436R-ND	12.66	111.01
	Au 30µ"	36 (91.44)	GR	M1KXK-2436J-ND	11.48	100.68
26	Au 30µ"	36 (91.44)	MC	M1KXK-2636R-ND	13.27	116.37
	Au 30µ"	36 (91.44)	GR	M1KXK-2636J-ND	11.99	105.18
30	Au 30µ"	36 (91.44)	MC	M1KXK-3036R-ND	15.45	135.49
	Au 30µ"	36 (91.44)	GR	M1KXK-3036J-ND	13.78	120.88
34	Au 30µ"	36 (91.44)	MC	M1KXK-3436R-ND	16.75	146.89
	Au 30µ"	36 (91.44)	GR	M1KXK-3436J-ND	15.08	132.28
36	Au 30µ"	36 (91.44)	MC	M1KXK-3636R-ND	17.88	156.79
	Au 30µ"	36 (91.44)	GR	M1KXK-3636J-ND	16.07	140.88
40	Au 30µ"	36 (91.44)	MC	M1KXK-4036R-ND	18.94	166.10
	Au 30µ"	36 (91.44)	GR	M1KXK-4036J-ND	16.98	148.90
50	Au 30µ"	36 (91.44)	MC	M1KXK-5036R-ND	21.57	189.17
	Au 30µ"	36 (91.44)	GR	M1KXK-5036J-ND	19.12	167.67
60	Au 30µ"	36 (91.44)	MC	M1KXK-6036R-ND	25.60	224.50
	Au 30µ"	36 (91.44)	GR	M1KXK-6036J-ND	22.66	198.70
64	Au 30µ"	36 (91.44)	MC	M1KXK-6436R-ND	27.31	239.48
	Au 30µ"	36 (91.44)	GR	M1KXK-6436J-ND	24.17	211.97

Also available in the following configurations:
M1RXK-☐☐36☐-ND – Pin Connector w/o Flange w/ PK & Strain Relief.
M1WXK-☐☐36☐-ND – Pin Connector with Flange w/ Polarizing Key.
M1YXK-☐☐36☐-ND – Pin Connector w/ Polarizing Key & Strain Relief.
Call for complete part number and pricing!

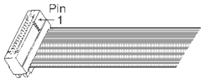
Plug Connector — Single Ended

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	40 (101.60)	TW	M1KXK-1040K-ND	6.36	55.77
14	Au 30µ"	40 (101.60)	TW	M1KXK-1440K-ND	8.84	77.50
16	Au 30µ"	40 (101.60)	TW	M1KXK-1640K-ND	10.04	88.08
20	Au 30µ"	40 (101.60)	TW	M1KXK-2040K-ND	11.97	104.97
26	Au 30µ"	40 (101.60)	TW	M1KXK-2640K-ND	14.26	125.04
34	Au 30µ"	40 (101.60)	TW	M1KXK-3440K-ND	18.05	158.25
40	Au 30µ"	40 (101.60)	TW	M1KXK-4040K-ND	20.46	179.46
50	Au 30µ"	40 (101.60)	TW	M1KXK-5040K-ND	23.48	205.86
60	Au 30µ"	40 (101.60)	TW	M1KXK-6040K-ND	27.89	244.53
64	Au 30µ"	40 (101.60)	TW	M1KXK-6440K-ND	29.75	260.85

Also available in the following configurations:
M1RXK-☐☐40K-ND – Standard Open End without Flange, with Polarizing Key & Strain Relief.
M1WXK-☐☐40K-ND – Standard Open End with Flange, with Polarizing Key.
M1YXK-☐☐40K-ND – Standard Open End with Flange, with Polarizing Key and Strain Relief.
Call for complete part number and pricing!

Single Ended Card Edge Connector



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	36 (91.44)	MC	M1EXK-1036R-ND	5.82	51.00
	Au 30µ"	36 (91.44)	GR	M1EXK-1036J-ND	5.33	46.70
16	Au 30µ"	36 (91.44)	MC	M1EXK-1636R-ND	8.36	73.35
	Au 30µ"	36 (91.44)	GR	M1EXK-1636J-ND	7.58	66.46
20	Au 30µ"	36 (91.44)	MC	M1EXK-2036R-ND	10.40	91.17
	Au 30µ"	36 (91.44)	GR	M1EXK-2036J-ND	9.42	82.58
26	Au 30µ"	36 (91.44)	MC	M1EXK-2636R-ND	12.68	111.24
	Au 30µ"	36 (91.44)	GR	M1EXK-2636J-ND	11.41	100.05
34	Au 30µ"	36 (91.44)	MC	M1EXK-3436R-ND	15.35	134.64
	Au 30µ"	36 (91.44)	GR	M1EXK-3436J-ND	13.69	120.03
40	Au 30µ"	36 (91.44)	MC	M1EXK-4036R-ND	18.55	162.68
	Au 30µ"	36 (91.44)	GR	M1EXK-4036J-ND	16.59	145.48
50	Au 30µ"	36 (91.44)	MC	M1EXK-5036R-ND	20.50	179.77
	Au 30µ"	36 (91.44)	GR	M1EXK-5036J-ND	18.05	158.27
60	Au 30µ"	36 (91.44)	MC	M1EXK-6036R-ND	25.34	222.22
	Au 30µ"	36 (91.44)	GR	M1EXK-6036J-ND	22.40	196.42
64	Au 30µ"	36 (91.44)	MC	M1EXK-6436R-ND	26.24	230.07
	Au 30µ"	36 (91.44)	GR	M1EXK-6436J-ND	23.10	202.56

Also available in the following configurations:
M1FXK-☐☐36☐-ND – Card Edge Connector w/ Flange.
M1GXK-☐☐36☐-ND – Card Edge Connector w/ Slotted Flange.
M1MXK-☐☐36☐-ND – Card Edge Connector w/ Strain Relief.
Call for complete part number and pricing!

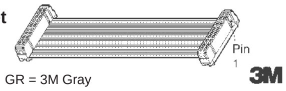
Single Ended Card Edge Connector

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	40 (101.60)	TW	M1EXK-1040K-ND	6.20	54.34
16	Au 30µ"	40 (101.60)	TW	M1EXK-1640K-ND	8.97	78.68
20	Au 30µ"	40 (101.60)	TW	M1EXK-2040K-ND	11.16	97.85
26	Au 30µ"	40 (101.60)	TW	M1EXK-2640K-ND	13.67	119.91
34	Au 30µ"	40 (101.60)	TW	M1EXK-3440K-ND	16.65	146.00
40	Au 30µ"	40 (101.60)	TW	M1EXK-4040K-ND	20.07	176.04
50	Au 30µ"	40 (101.60)	TW	M1EXK-5040K-ND	22.40	196.46
60	Au 30µ"	40 (101.60)	TW	M1EXK-6040K-ND	27.63	242.25
64	Au 30µ"	40 (101.60)	TW	M1EXK-6440K-ND	28.67	251.45

Also available in the following configurations:
M1FXK-☐☐40K-ND – Card Edge Connector w/ Flange.
M1GXK-☐☐40K-ND – Card Edge Connector w/ Slotted Flange.
M1MXK-☐☐40K-ND – Card Edge Connector w/ Strain Relief.
Call for complete part number and pricing!

Socket to Socket Connector



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	6 (15.24)	MC	M3AAK-1006R-ND	6.31	55.34
	Au 15µ"	6 (15.24)	MC	M3AAA-1006R-ND	1.24	10.88
	Au 30µ"	6 (15.24)	GR	M3AAK-1006J-ND	6.23	54.62
	Au 15µ"	6 (15.24)	GR	M3AAA-1006J-ND	1.16	10.16
10	Au 30µ"	18 (45.72)	MC	M3AAK-1018R-ND	6.84	59.99
	Au 15µ"	18 (45.72)	MC	M3AAA-1018R-ND	1.77	15.53
	Au 30µ"	18 (45.72)	GR	M3AAK-1018J-ND	6.60	57.84
	Au 15µ"	18 (45.72)	GR	M3AAA-1018J-ND	1.53	13.38
10	Au 30µ"	36 (91.44)	MC	M3AAK-1036R-ND	7.64	66.96
	Au 15µ"	36 (91.44)	MC	M3AAA-1036R-ND	2.57	22.50
	Au 30µ"	36 (91.44)	GR	M3AAK-1036J-ND	7.15	62.66
	Au 15µ"	36 (91.44)	GR	M3AAA-1036J-ND	2.08	18.20
14	Au 30µ"	6 (15.24)	MC	M3AAK-1406R-ND	7.72	67.67
	Au 15µ"	6 (15.24)	MC	M3AAA-1406R-ND	1.74	15.23
	Au 30µ"	6 (15.24)	GR	M3AAK-1406J-ND	7.60	66.66
	Au 15µ"	6 (15.24)	GR	M3AAA-1406J-ND	1.62	14.22
14	Au 30µ"	18 (45.72)	MC	M3AAK-1418R-ND	8.46	74.18
	Au 15µ"	18 (45.72)	MC	M3AAA-1418R-ND	2.48	21.74
	Au 30µ"	18 (45.72)	GR	M3AAK-1418J-ND	8.12	71.17
	Au 15µ"	18 (45.72)	GR	M3AAA-1418J-ND	2.14	18.73
14	Au 30µ"	36 (91.44)	MC	M3AAK-1436R-ND	9.57	83.95
	Au 15µ"	36 (91.44)	MC	M3AAA-1436R-ND	3.59	31.51
	Au 30µ"	36 (91.44)	GR	M3AAK-1436J-ND	8.89	77.92
	Au 15µ"	36 (91.44)	GR	M3AAA-1436J-ND	2.91	25.48
16	Au 30µ"	6 (15.24)	MC	M3AAK-1606R-ND	8.42	73.83
	Au 15µ"	6 (15.24)	MC	M3AAA-1606R-ND	1.98	17.40
	Au 30µ"	6 (15.24)	GR	M3AAK-1606J-ND	8.29	72.68
	Au 15µ"	6 (15.24)	GR	M3AAA-1606J-ND	1.85	16.22
16	Au 30µ"	18 (45.72)	MC	M3AAK-1618R-ND	9.27	81.28
	Au 15µ"	18 (45.72)	MC	M3AAA-1618R-ND	2.83	24.85
	Au 30µ"	18 (45.72)	GR	M3AAK-1618J-ND	8.88	77.83
	Au 15µ"	18 (45.72)	GR	M3AAA-1618J-ND	2.44	21.40
16	Au 30µ"	36 (91.44)	MC	M3AAK-1636R-ND	10.54	92.45
	Au 15µ"	36 (91.44)	MC	M3AAA-1636R-ND	4.11	36.02
	Au 30µ"	36 (91.44)	GR	M3AAK-1636J-ND	9.76	85.55
	Au 15µ"	36 (91.44)	GR	M3AAA-1636J-ND	3.32	29.12
20	Au 30µ"	6 (15.24)	MC	M3AAK-2006R-ND	9.37	82.17
	Au 15µ"	6 (15.24)	MC	M3AAA-2006R-ND	2.48	21.75
	Au 30µ"	6 (15.24)	GR	M3AAK-2006J-ND	9.21	80.74
	Au 15µ"	6 (15.24)	GR	M3AAA-2006J-ND	2.32	20.32
20	Au 30µ"	18 (45.72)	MC	M3AAK-2018R-ND	10.43	91.47
	Au 15µ"	18 (45.72)	MC	M3AAA-2018R-ND	3.54	31.05
	Au 30µ"	18 (45.72)	GR	M3AAK-2018J-ND	9.94	87.17
	Au 15µ"	18 (45.72)	GR	M3AAA-2018J-ND	3.05	26.75
20	Au 30µ"	36 (91.44)	MC	M3AAK-2036R-ND	12.02	105.42
	Au 15µ"	36 (91.44)	MC	M3AAA-2036R-ND	5.13	45.00
	Au 30µ"	36 (91.44)	GR	M3AAK-2036J-ND	11.04	96.83
	Au 15µ"	36 (91.44)	GR	M3AAA-2036J-ND	4.15	36.41
24	Au 30µ"	6 (15.24)	MC	M3AAK-2406R-ND	11.23	98.49
	Au 15µ"	6 (15.24)	MC	M3AAA-2406R-ND	2.98	26.10
	Au 30µ"	6 (15.24)	GR	M3AAK-2406J-ND	11.04	96.77
	Au 15µ"	6 (15.24)	GR	M3AAA-2406J-ND	2.78	24.38
24	Au 30µ"	18 (45.72)	MC	M3AAK-2418R-ND	12.50	109.65
	Au 15µ"	18 (45.72)	MC	M3AAA-2418R-ND	4.25	37.26
	Au 30µ"	18 (45.72)	GR	M3AAK-2418J-ND	11.92	104.49
	Au 15µ"	18 (45.72)	GR	M3AAA-2418J-ND	3.66	32.10
24	Au 30µ"	36 (91.44)	MC	M3AAK-2436R-ND	14.41	126.40
	Au 15µ"	36 (91.44)	MC	M3AAA-2436R-ND	6.16	54.01
	Au 30µ"	36 (91.44)	GR	M3AAK-2436J-ND	13.24	116.07
	Au 15µ"	36 (91.44)	GR	M3AAA-2436J-ND	4.98	43.68
26	Au 30µ"	6 (15.24)	MC	M3AAK-2606R-ND	12.13	106.37
	Au 15µ"	6 (15.24)	MC	M3AAA-2606R-ND	3.22	28.28
	Au 30µ"	6 (15.24)	GR	M3AAK-2606J-ND	11.92	104.50
	Au 15µ"	6 (15.24)	GR	M3AAA-2606J-ND	3.01	26.41
26	Au 30µ"	18 (45.72)	MC	M3AAK-2618R-ND	13.51	118.46
	Au 15µ"	18 (45.72)	MC	M3AAA-2618R-ND	4.60	40.37
	Au 30µ"	18 (45.72)	GR	M3AAK-2618J-ND	12.87	112.87
	Au 15µ"	18 (45.72)	GR	M3AAA-2618J-ND	3.97	34.78
26	Au 30µ"	36 (91.44)	MC	M3AAK-2636R-ND	15.58	136.60
	Au 15µ"	36 (91.44)	MC	M3AAA-2636R-ND	6.67	58.51
	Au 30µ"	36 (91.44)	GR	M3AAK-2636J-ND	14.30	125.42
	Au 15µ"	36 (91.44)	GR	M3AAA-2636J-ND	5.40	47.33
30	Au 30µ"	6 (15.24)	MC	M3AAK-3006R-ND	14.03	123.05
	Au 15µ"	6 (15.24)	MC	M3AAA-3006R-ND	3.83	33.56
	Au 30µ"	6 (15.24)	GR	M3AAK-3006J-ND	13.75	120.61
	Au 15µ"	6 (15.24)	GR	M3AAA-3006J-ND	3.55	31.12
30	Au 30µ"	18 (45.72)	MC	M3AAK-3018R-ND	15.83	138.85
	Au 15µ"	18 (45.72)	MC	M3AAA-3018R-ND	5.63	49.36
	Au 30µ"	18 (45.72)	GR	M3AAK-3018J-ND	15.00	131.55
	Au 15µ"	18 (45.72)	GR	M3AAA-3018J-ND	4.80	42.06
30	Au 30µ"	36 (91.44)	MC	M3AAK-3036R-ND	18.54	162.57
	Au 15µ"	36 (91.44)	MC	M3AAA-3036R-ND	8.33	73.08
	Au 30µ"	36 (91.44)	GR	M3AAK-3036J-ND	16.87	147.96
	Au 15µ"	36 (91.44)	GR	M3AAA-3036J-ND	6.67	58.47
34	Au 30µ"	6 (15.24)	MC	M3AAK-3406R-ND	15.79	138.44
	Au 15µ"	6 (15.24)	MC	M3AAA-3406R-ND	4.22	36.98
	Au 30µ"	6 (15.24)	GR	M3AAK-3406J-ND	15.51	136.00
	Au 15µ"	6 (15.24)	GR	M3AAA-3406J-ND	3.94	34.54
34	Au 30µ"	18 (45.72)	MC	M3AAK-3418R-ND	17.59	154.24
	Au 15µ"	18 (45.72)	MC	M3AAA-3418R-ND	6.02	52.78
	Au 30µ"	18 (45.72)	GR	M3AAK-3418J-ND	16.76	146.94
	Au 15µ"	18 (45.72)	GR	M3AAA-3418J-ND	5.19	45.48
34	Au 30µ"	36 (91.44)	MC	M3AAK-3436R-ND	20.29	177.96
	Au 15µ"	36 (91.44)	MC	M3AAA-3436R-ND	8.72	76.50
	Au 30µ"	36 (91.44)	GR	M3AAK-3436J-ND	18.63	163.35
	Au 15µ"	36 (91.44)	GR	M3AAA-3436J-ND	7.07	62.02
40	Au 30µ"	6 (15.24)	MC	M3AAK-4006R-ND	18.55	162.63
	Au 15µ"	6 (15.24)	MC	M3AAA-4006R-ND	4.96	43.50
	Au 30µ"	6 (15.24)	GR	M3AAK-4006J-ND	18.22	159.76
	Au 15µ"	6 (15.24)	GR	M3AAA-4006J-ND	4.63	40.63
40	Au 30µ"	18 (45.72)	MC	M3AAK-4018R-ND	20.67	181.23
	Au 15µ"	18 (45.72)	MC	M3AAA-4018R-ND	7.08	62.10
	Au 30µ"	18 (45.72)	GR	M3AAK-4018J-ND	19.69	172.63
	Au 15µ"	18 (45.72)	GR	M3AAA-4018J-ND	6.10	53.50
40	Au 30µ"	36 (91.44)	MC	M3AAK-4036R-ND	23.85	209.14
	Au 15µ"	36 (91.44)	MC	M3AAA-4036R-ND	10.26	90.01
	Au 30µ"	36 (91.44)	GR	M3AAK-4036J-ND	21.89	191.94
	Au 15µ"	36 (91.44)	GR	M3AAA-4036J-ND	8.30	72.81
50	Au 30µ"	6 (15.24)	MC	M3AAK-5006R-ND	23.16	203.09
	Au 15µ"	6 (15.24)	MC	M3AAA-5006R-ND	6.20	54.38
	Au 30µ"	6 (15.24)	GR	M3AAK-5006J-ND	22.76	199.56
	Au 15µ"	6 (15.24)	GR	M3AAA-5006J-ND	5.79	50.79
50	Au 30µ"	18 (45.72)	MC	M3AAK-5018R-ND	25.82	226.40
	Au 15µ"	18 (45.72)	MC	M3AAA-5018R-ND	8.85	77.63
	Au 30µ"	18 (45.72)	GR	M3AAK-5018J-ND	24.59	215.65
	Au 15µ"	18 (45.72)	GR	M3AAA-5018J-ND	7.63	66.88
50	Au 30µ"	36 (91.44)	MC	M3AAK-5036R-ND	29.79	261.28
	Au 15µ"	36 (91.44)	MC	M3AAA-5036R-ND	12.83	112.51
	Au 30µ"	36 (91.44)	GR	M3AAK-5036J-ND	27.34	239.78
	Au 15µ"	36 (91.44)	GR	M3AAA-5036J-ND	10.38	91.01
60	Au 30µ"	6 (15.24)	MC	M3AAK-6006R-ND	28.63	251.07
	Au 15µ"	6 (15.24)	MC	M3AAA-6006R-ND	7.44	65.25
	Au 30µ"	6 (15.24)	GR	M3AAK-6006J-ND	28.14	246.77
	Au 15µ"	6 (15.24)	GR	M3AAA-6006J-ND	6.95	60.95

(Continued)

3M Termination Jumpers

Socket to Socket Connector *(Cont.)*

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
60	Au 30µ"	18 (45.72)	MC	M3AAK-6018R-ND	31.81	278.98
	Au 15µ"	18 (45.72)	MC	M3AAA-6018R-ND	10.62	93.16
	Au 30µ"	18 (45.72)	GR	M3AAK-6018J-ND	30.34	266.08
	Au 15µ"	18 (45.72)	GR	M3AAA-6018J-ND	9.15	80.26
60	Au 30µ"	36 (91.44)	MC	M3AAK-6036R-ND	36.59	320.83
	Au 15µ"	36 (91.44)	MC	M3AAA-6036R-ND	15.40	135.01
	Au 30µ"	36 (91.44)	GR	M3AAK-6036J-ND	33.64	295.03
	Au 15µ"	36 (91.44)	GR	M3AAA-6036J-ND	12.45	109.21

Also available in the following configurations:
M3BB□-□□□□□-ND – Standard Open End w/ Strain Relief.
M3CC□-□□□□□-ND – Standard Open End w/ Polarizing Key.
M3DD□-□□□□□-ND – Standard Open End w/ Polarizing Key & Strain Relief.
M3TTK-□□□□□-ND – Standard Closed End w/ Polarizing Key.
M3UUK-□□□□□-ND – Standard Closed End w/ Polarizing Key & Strain Relief.
Call for complete part number and pricing!

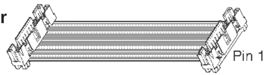
Socket to Socket Connector

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ"	20 (50.80)	TW	M3AAK-1020K-ND	7.03	61.65
	Au 15µ"	20 (50.80)	TW	M3AAA-1020K-ND	1.96	17.19
	Au 30µ"	40 (101.60)	TW	M3AAK-1040K-ND	8.02	70.30
	Au 15µ"	40 (101.60)	TW	M3AAA-1040K-ND	2.95	25.84
	Au 30µ"	60 (152.40)	TW	M3AAK-1060K-ND	9.00	78.95
	Au 15µ"	60 (152.40)	TW	M3AAA-1060K-ND	3.93	34.49
14	Au 30µ"	20 (50.80)	TW	M3AAK-1420K-ND	8.73	76.51
	Au 15µ"	20 (50.80)	TW	M3AAA-1420K-ND	2.75	24.07
	Au 30µ"	40 (101.60)	TW	M3AAK-1440K-ND	10.11	88.62
	Au 15µ"	40 (101.60)	TW	M3AAA-1440K-ND	4.13	36.18
	Au 30µ"	60 (152.40)	TW	M3AAK-1460K-ND	11.49	100.72
	Au 15µ"	60 (152.40)	TW	M3AAA-1460K-ND	5.51	48.28
16	Au 30µ"	20 (50.80)	TW	M3AAK-1620K-ND	9.57	83.94
	Au 15µ"	20 (50.80)	TW	M3AAA-1620K-ND	3.14	27.51
	Au 30µ"	40 (101.60)	TW	M3AAK-1640K-ND	11.15	97.77
	Au 15µ"	40 (101.60)	TW	M3AAA-1640K-ND	4.71	41.34
	Au 30µ"	60 (152.40)	TW	M3AAK-1660K-ND	12.73	111.61
	Au 15µ"	60 (152.40)	TW	M3AAA-1660K-ND	6.29	55.18
20	Au 30µ"	20 (50.80)	TW	M3AAK-2020K-ND	10.81	94.81
	Au 15µ"	20 (50.80)	TW	M3AAA-2020K-ND	3.92	34.39
	Au 30µ"	40 (101.60)	TW	M3AAK-2040K-ND	12.78	112.10
	Au 15µ"	40 (101.60)	TW	M3AAA-2040K-ND	5.89	51.68
	Au 30µ"	60 (152.40)	TW	M3AAK-2060K-ND	14.76	129.39
	Au 15µ"	60 (152.40)	TW	M3AAA-2060K-ND	7.87	68.97
26	Au 30µ"	20 (50.80)	TW	M3AAK-2620K-ND	14.00	122.80
	Au 15µ"	20 (50.80)	TW	M3AAA-2620K-ND	5.10	44.71
	Au 30µ"	40 (101.60)	TW	M3AAK-2640K-ND	16.57	145.27
	Au 15µ"	40 (101.60)	TW	M3AAA-2640K-ND	7.66	67.18
	Au 30µ"	60 (152.40)	TW	M3AAK-2660K-ND	19.13	167.75
	Au 15µ"	60 (152.40)	TW	M3AAA-2660K-ND	10.22	89.66
34	Au 30µ"	20 (50.80)	TW	M3AAK-3420K-ND	18.24	159.92
	Au 15µ"	20 (50.80)	TW	M3AAA-3420K-ND	6.67	58.46
	Au 30µ"	40 (101.60)	TW	M3AAK-3440K-ND	21.59	189.32
	Au 15µ"	40 (101.60)	TW	M3AAA-3440K-ND	10.02	87.86
	Au 30µ"	60 (152.40)	TW	M3AAK-3460K-ND	24.94	218.71
	Au 15µ"	60 (152.40)	TW	M3AAA-3460K-ND	13.37	117.25
40	Au 30µ"	20 (50.80)	TW	M3AAK-4020K-ND	21.43	187.91
	Au 15µ"	20 (50.80)	TW	M3AAA-4020K-ND	7.84	68.78
	Au 30µ"	40 (101.60)	TW	M3AAK-4040K-ND	25.37	222.49
	Au 15µ"	40 (101.60)	TW	M3AAA-4040K-ND	11.79	103.36
	Au 30µ"	60 (152.40)	TW	M3AAK-4060K-ND	29.32	257.07
	Au 15µ"	60 (152.40)	TW	M3AAA-4060K-ND	15.73	137.94
50	Au 30µ"	20 (50.80)	TW	M3AAK-5020K-ND	26.77	234.75
	Au 15µ"	20 (50.80)	TW	M3AAA-5020K-ND	9.80	85.98
	Au 30µ"	40 (101.60)	TW	M3AAK-5040K-ND	31.70	277.97
	Au 15µ"	40 (101.60)	TW	M3AAA-5040K-ND	14.73	129.20
	Au 30µ"	60 (152.40)	TW	M3AAK-5060K-ND	36.63	321.20
	Au 15µ"	60 (152.40)	TW	M3AAA-5060K-ND	19.66	172.43
60	Au 30µ"	20 (50.80)	TW	M3AAK-6020K-ND	32.96	288.99
	Au 15µ"	20 (50.80)	TW	M3AAA-6020K-ND	11.77	103.17
	Au 30µ"	40 (101.60)	TW	M3AAK-6040K-ND	38.87	340.86
	Au 15µ"	40 (101.60)	TW	M3AAA-6040K-ND	17.68	155.04
	Au 30µ"	60 (152.40)	TW	M3AAK-6060K-ND	44.79	392.73
	Au 15µ"	60 (152.40)	TW	M3AAA-6060K-ND	23.60	206.91

Also available in the following configurations:
M3BB□-□□□□K-ND – Standard Open End w/ Strain Relief.
M3CC□-□□□□K-ND – Standard Open End w/ Polarizing Key.
M3DD□-□□□□K-ND – Standard Open End w/ Polarizing Key & Strain Relief.
M3TTK-□□□□K-ND – Standard Closed End w/ Polarizing Key.
M3UUK-□□□□K-ND – Standard Closed End w/ Polarizing Key & Strain Relief.
Call for complete part number and pricing!

Plug Connector to Plug Connector



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ"	6 (15.24)	MC	M3KKK-1006R-ND	9.04	79.28
	Au 30µ"	6 (15.24)	GR	M3KKK-1006J-ND	8.96	78.56
	Au 30µ"	18 (45.72)	MC	M3KKK-1018R-ND	9.57	83.93
	Au 30µ"	18 (45.72)	GR	M3KKK-1018J-ND	9.33	81.78
	Au 30µ"	36 (91.44)	MC	M3KKK-1036R-ND	10.37	90.90
	Au 30µ"	36 (91.44)	GR	M3KKK-1036J-ND	9.88	86.60
14	Au 30µ"	6 (15.24)	MC	M3KKK-1406R-ND	12.53	109.85
	Au 30µ"	6 (15.24)	GR	M3KKK-1406J-ND	12.41	108.84
	Au 30µ"	18 (45.72)	MC	M3KKK-1418R-ND	13.27	116.36
	Au 30µ"	18 (45.72)	GR	M3KKK-1418J-ND	12.93	113.35
	Au 30µ"	36 (91.44)	MC	M3KKK-1436R-ND	14.38	126.13
	Au 30µ"	36 (91.44)	GR	M3KKK-1436J-ND	13.70	120.10
16	Au 30µ"	6 (15.24)	MC	M3KKK-1606R-ND	14.20	124.56
	Au 30µ"	6 (15.24)	GR	M3KKK-1606J-ND	14.07	123.41
	Au 30µ"	18 (45.72)	MC	M3KKK-1618R-ND	15.05	132.01
	Au 30µ"	18 (45.72)	GR	M3KKK-1618J-ND	14.66	128.56
	Au 30µ"	36 (91.44)	MC	M3KKK-1636R-ND	16.33	143.18
	Au 30µ"	36 (91.44)	GR	M3KKK-1636J-ND	15.54	136.28
20	Au 30µ"	6 (15.24)	MC	M3KKK-2006R-ND	16.59	145.44
	Au 30µ"	6 (15.24)	GR	M3KKK-2006J-ND	16.42	144.01
	Au 30µ"	18 (45.72)	MC	M3KKK-2018R-ND	17.65	154.74
	Au 30µ"	18 (45.72)	GR	M3KKK-2018J-ND	17.16	150.44
	Au 30µ"	36 (91.44)	MC	M3KKK-2036R-ND	19.24	168.69
	Au 30µ"	36 (91.44)	GR	M3KKK-2036J-ND	18.26	160.10
24	Au 30µ"	6 (15.24)	MC	M3KKK-2406R-ND	18.32	160.62
	Au 30µ"	6 (15.24)	GR	M3KKK-2406J-ND	18.12	158.90
	Au 30µ"	18 (45.72)	MC	M3KKK-2418R-ND	19.59	171.78
	Au 30µ"	18 (45.72)	GR	M3KKK-2418J-ND	19.00	166.62
	Au 30µ"	36 (91.44)	MC	M3KKK-2436R-ND	21.50	188.53
	Au 30µ"	36 (91.44)	GR	M3KKK-2436J-ND	20.32	178.20
26	Au 30µ"	6 (15.24)	MC	M3KKK-2606R-ND	18.95	166.22
	Au 30µ"	6 (15.24)	GR	M3KKK-2606J-ND	18.74	164.35
	Au 30µ"	18 (45.72)	MC	M3KKK-2618R-ND	20.33	178.31
	Au 30µ"	18 (45.72)	GR	M3KKK-2618J-ND	19.70	172.72
	Au 30µ"	36 (91.44)	MC	M3KKK-2636R-ND	22.40	196.45
	Au 30µ"	36 (91.44)	GR	M3KKK-2636J-ND	21.13	185.27
30	Au 30µ"	6 (15.24)	MC	M3KKK-3006R-ND	20.99	184.04
	Au 30µ"	6 (15.24)	GR	M3KKK-3006J-ND	20.71	181.60
	Au 30µ"	18 (45.72)	MC	M3KKK-3018R-ND	22.79	199.84
	Au 30µ"	18 (45.72)	GR	M3KKK-3018J-ND	21.96	192.54
	Au 30µ"	36 (91.44)	MC	M3KKK-3036R-ND	25.49	223.56
	Au 30µ"	36 (91.44)	GR	M3KKK-3036J-ND	23.83	208.95
34	Au 30µ"	6 (15.24)	MC	M3KKK-3406R-ND	23.59	206.84
	Au 30µ"	6 (15.24)	GR	M3KKK-3406J-ND	23.31	204.40
	Au 30µ"	18 (45.72)	MC	M3KKK-3418R-ND	25.39	222.64
	Au 30µ"	18 (45.72)	GR	M3KKK-3418J-ND	24.56	215.34
	Au 30µ"	36 (91.44)	MC	M3KKK-3436R-ND	28.09	246.36
	Au 30µ"	36 (91.44)	GR	M3KKK-3436J-ND	26.43	231.75
36	Au 30µ"	6 (15.24)	MC	M3KKK-3606R-ND	24.97	218.93
	Au 30µ"	6 (15.24)	GR	M3KKK-3606J-ND	24.66	216.28
	Au 30µ"	18 (45.72)	MC	M3KKK-3618R-ND	26.93	236.14
	Au 30µ"	18 (45.72)	GR	M3KKK-3618J-ND	26.02	228.19
	Au 30µ"	36 (91.44)	MC	M3KKK-3636R-ND	29.87	261.96
	Au 30µ"	36 (91.44)	GR	M3KKK-3636J-ND	28.06	246.04
40	Au 30µ"	6 (15.24)	MC	M3KKK-4006R-ND	26.22	229.89
	Au 30µ"	6 (15.24)	GR	M3KKK-4006J-ND	25.89	227.02
	Au 30µ"	18 (45.72)	MC	M3KKK-4018R-ND	28.34	248.49
	Au 30µ"	18 (45.72)	GR	M3KKK-4018J-ND	27.36	239.89
	Au 30µ"	36 (91.44)	MC	M3KKK-4036R-ND	31.52	276.40
	Au 30µ"	36 (91.44)	GR	M3KKK-4036J-ND	29.56	259.20
50	Au 30µ"	6 (15.24)	MC	M3KKK-5006R-ND	28.56	250.46
	Au 30µ"	6 (15.24)	GR	M3KKK-5006J-ND	28.15	246.87
	Au 30µ"	18 (45.72)	MC	M3KKK-5018R-ND	31.21	273.71
	Au 30µ"	18 (45.72)	GR	M3KKK-5018J-ND	29.99	262.96
	Au 30µ"	36 (91.44)	MC	M3KKK-5036R-ND	35.19	308.59
	Au 30µ"	36 (91.44)	GR	M3KKK-5036J-ND	32.74	287.09
60	Au 30µ"	6 (15.24)	MC	M3KKK-6006R-ND	33.70	295.53
	Au 30µ"	6 (15.24)	GR	M3KKK-6006J-ND	33.21	291.23
	Au 30µ"	18 (45.72)	MC	M3KKK-6018R-ND	36.88	323.44
	Au 30µ"	18 (45.72)	GR	M3KKK-6018J-ND	35.41	310.54
	Au 30µ"	36 (91.44)	MC	M3KKK-6036R-ND	41.66	365.29
	Au 30µ"	36 (91.44)	GR	M3KKK-6036J-ND	38.71	339.49
64	Au 30µ"	6 (15.24)	MC	M3KKK-6406R-ND	35.95	315.27
	Au 30µ"	6 (15.24)	GR	M3KKK-6406J-ND	35.43	310.69
	Au 30µ"	18 (45.72)	MC	M3KKK-6418R-ND	39.35	345.03
	Au 30µ"	18 (45.72)	GR	M3KKK-6418J-ND	37.78	331.28
	Au 30µ"	36 (91.44)	MC	M3KKK-6436R-ND	44.44	389.67
	Au 30µ"	36 (91.44)	GR	M3KKK-6436J-ND	41.30	362.16

Also available in the following configurations:
M3RRK-□□□□□-ND – Pin Connector w/o Flange, w/ Polarizing Key & Strain Relief.
M3WWK-□□□□□-ND – Pin Connector with Flange, w/ Polarizing Key.
M3YYK-□□□□□-ND – Pin Connector with Flange, w/ Polarizing Key & Strain Relief.
Call for complete part number and pricing!

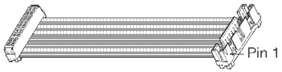
Plug Connector to Plug Connector

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ"	20 (50.80)	TW	M3KKK-1020K-ND	9.76	85.59
	Au 30µ"	40 (101.60)	TW	M3KKK-1040K-ND	10.75	94.24
14	Au 30µ"	20 (50.80)	TW	M3KKK-1420K-ND	13.54	118.69
	Au 30µ"	40 (101.60)	TW	M3KKK-1440K-ND	14.92	130.80
16	Au 30µ"	20 (50.80)	TW	M3KKK-1620K-ND	15.36	134.67
	Au 30µ"	40 (101.60)	TW	M3KKK-1640K-ND	16.93	148.50
20	Au 30µ"	20 (50.80)	TW	M3KKK-2020K-ND	18.03	158.08
	Au 30µ"	40 (101.60)	TW	M3KKK-2040K-ND	20.00	175.37
20	Au 30µ"	20 (50.80)	TW	M3KKK-2620K-ND	20.83	182.65
	Au 30µ"	40 (101.60)	TW	M3KKK-2640K-ND	23.39	205.12
34	Au 30µ"	20 (50.80)	TW	M3KKK-3420K-ND	26.04	228.32
	Au 30µ"	40 (101.60)	TW	M3KKK-3440K-ND	29.39	257.72
40	Au 30µ"	20 (50.80)	TW	M3KKK-4020K-ND	29.10	255.17
	Au 30µ"	40 (101.60)	TW	M3KKK-4040K-ND	33.04	289.75
50	Au 30µ"	20 (50.80)	TW	M3KKK-5020K-ND	32.16	282.06
	Au 30µ"	40 (101.60)	TW	M3KKK-5040K-ND	37.09	325.28
60	Au 30µ"	20 (50.80)	TW	M3KKK-6020K-ND	38.03	333.45
	Au 30µ"	40 (101.60)	TW	M3KKK-6040K-ND	43.94	385.32
64	Au 30µ"	20 (50.80)	TW	M3KKK-6420K-ND	40.56	355.72
	Au 30µ"	40 (101.60)	TW	M3KKK-6440K-ND	46.87	411.05

Also available in the following configurations:
M3RRK-□□□□K-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief.
M3WWK-□□□□K-ND – Pin Connector with Flange, with Polarizing Key.
M3YYK-□□□□K-ND – Pin Connector with Flange, with Polarizing Key and Strain Relief.
Call for complete part number and pricing!

Socket Connector to Plug Connector



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ"	6 (15.24)	MC	M3AKK-1006R-ND	7.68	67.31
	Au 30µ"	6 (15.24)	GR	M3AKK-1006J-ND	7.59	66.59
	Au 30µ"	18 (45.72)	MC	M3AKK-1018R-ND	8.21	71.96
	Au 30µ"	18 (45.72)	GR	M3AKK-1018J-ND	7.96	69.81
	Au 30µ"	36 (91.44)	MC	M3AKK-1036R-ND	9.00	78.93
	Au 30µ"	36 (91.44)	GR	M3AKK-1036J-ND	8.51	74.63
16	Au 30µ"	6 (15.24)	MC	M3AKK-1606R-ND	11.31	99.20
	Au 30µ"	6 (15.24)	GR	M3AKK-1606J-ND	11.18	98.05
	Au 30µ"	18 (45.72)	MC	M3AKK-1618R-ND	12.16	106.64
	Au 30µ"	18 (45.72)	GR	M3AKK-1618J-ND	11.77	103.20
	Au 30µ"	36 (91.44)	MC	M3AKK-1636R-ND	13.43	117.81
	Au 30µ"	36 (91.44)	GR	M3AKK-1636J-ND	12.65	110.92
20	Au 30µ"	6 (15.24)	MC	M3AKK-2006R-ND	12.98	113.81
	Au 30µ"	6 (15.24)	GR	M3AKK-2006J-ND	12.81	112.37
	Au 30µ"	18 (45.72)	MC	M3AKK-2018R-ND	14.04	123.11
	Au 30µ"	18 (45.72)	GR	M3AKK-2018J-ND	13.55	118.81
	Au 30µ"	36 (91.44)	MC	M3AKK-2036R-ND	15.63	137.06
	Au 30µ"	36 (91.44)	GR	M3AKK-2036J-ND	14.65	128.46
24	Au 30µ"	6 (15.24)	MC	M3AKK-2406R-ND	14.77	129.56
	Au 30µ"	6 (15.24)	GR	M3AKK-2406J-ND	14.58	127.84
	Au 30µ"	18 (45.72)	MC	M3AKK-2418R-ND	16.05	140.72
	Au 30µ"	18 (45.72)	GR	M3AKK-2418J-ND	15.46	135.56
	Au 30µ"	36 (91.44)	MC	M3AKK-2436R-ND	17.96	157.46
	Au 30µ"	36 (91.44)	GR	M3AKK-2436J-ND	16.78	147.14
26	Au 30µ"	6 (15.24)	MC	M3AKK-2606R-ND	15.54	136.29
	Au 30µ"	6 (15.24)	GR	M3AKK-2606J-ND	15.33	134.43
	Au 30µ"	18 (45.72)	MC	M3AKK-2618R-ND	16.92	148.39
	Au 30µ"	18 (45.72)	GR	M3AKK-2618J-ND	16.28	142.79
	Au 30µ"	36 (91.44)	MC	M3AKK-2636R-ND	18.99	166.53
	Au 30µ"	36 (91.44)	GR	M3AKK-2636J-ND	17.71	155.34
30	Au 30µ"	6 (15.24)	MC	M3AKK-3006R-ND	17.51	153.54
	Au 30µ"	6 (15.24)	GR	M3AKK-3006J-ND	17.23	151.10
	Au 30µ"	18 (45.72)	MC	M3AKK-3018R-ND	19.31	169.35
	Au 30µ"	18 (45.72)	GR	M3AKK-3018J-ND	18.48	162.04
	Au 30µ"	36 (91.44)	MC	M3AKK-3036R-ND	22.02	193.06
	Au 30µ"	36 (91.44)	GR	M3AKK-3036J-ND	20.35	178.45
34	Au 30µ"	6 (15.24)	MC	M3AKK-3406R-ND	19.69	172.64
	Au 30µ"	6 (15.24)	GR	M3AKK-3406J-ND	19.41	170.20
	Au 30µ"	18 (45.72)	MC	M3AKK-3418R-ND	21.49	188.44
	Au 30µ"	18 (45.72)	GR	M3AKK-3418J-ND	20.66	181.14
	Au 30µ"	36 (91.44)	MC	M3AKK-3436R-ND	24.19	212.16
	Au 30µ"	36 (91.44)	GR	M3AKK-3436J-ND	22.53	197.55
40	Au 30µ"	6 (15.24)	MC	M3AKK-4006R-ND	22.38	196.26
	Au 30µ"	6 (15.24)	GR	M3AKK-4006J-ND	22.05	193.39
	Au 30µ"	18 (45.72)	MC	M3AKK-4018R-ND	24.50	214.86
	Au 30µ"	18 (45.72)	GR	M3AKK-4018J-ND	23.52	206.26
	Au 30µ"	36 (91.44)	MC	M3AKK-4036R-ND	27.68	242.77
	Au 30µ"	36 (91.44)	GR	M3AKK-4036J-ND	25.72	225.57
50	Au 30µ"	6 (15.24)	MC	M3AKK-5006R-ND	25.86	226.80
	Au 30µ"	6 (15.24)	GR	M3AKK-5006J-ND	25.45	223.22
	Au 30µ"	18 (45.72)	MC	M3AKK-5018R-ND	28.51	250.05
	Au 30µ"	18 (45.72)	GR	M3AKK-5018J-ND	27.29	239.30
	Au 30µ"	36 (91.44)	MC	M3AKK-5036R-ND	32.49	284.93
	Au 30µ"	36 (91.44)	GR	M3AKK-5036J-ND	30.04	263.43
60	Au 30µ"	6 (15.24)	MC	M3AKK-6006R-ND	31.17	273.30
	Au 30µ"	6 (15.24)	GR	M3AKK-6006J-ND	30.68	269.00
	Au 30µ"	18 (45.72)	MC	M3AKK-6018R-ND	34.35	301.21
	Au 30µ"	18 (45.72)	GR	M3AKK-6018J-ND	32.88	288.31
	Au 30µ"	36 (91.44)	MC	M3AKK-6036R-ND	39.12	343.06
	Au 30µ"	36 (91.44)	GR	M3AKK-6036J-ND	36.18	317.26

Also available in the following configurations:
M3AWK-□□□□□-ND – Socket Connector Std.and Pin Connector w/Polarizing Key & Flange.
M3BRK-□□□□□-ND – Socket Connector with SR, Pin Connector without Flange with PK and SR.
M3BYK-□□□□□-ND – Socket Connector with SR, Pin Connector with Flange with PK and SR.
M3CKK-□□□□□-ND – Socket Connector Open with Polarizing Key.
M3CWK-□□□□□-ND – Socket Connector with PK, Pin Connector with Flange w/ PK.
M3DRK-□□□□□-ND – Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3DYK-□□□□□-ND – Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.
M3TKK-□□□□□-ND – Socket Connector Closed with Polarizing Key.
M3URK-□□□□□-ND – Socket Connector Closed End with PK and SR, Pin Connector without Flange with PK and SR.
M3UYK-□□□□□-ND – Socket Connector Closed End with PK and SR, Pin Connector with Flange with PK & SR.
Call for complete part number and pricing!

Socket Connector to Plug Connector

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ"	20 (50.80)	TW	M3AKK-1020K-ND	8.40	73.62
	Au 30µ"	40 (101.60)	TW	M3AKK-1040K-ND	9.38	82.27
	Au 30µ"	60 (152.40)	TW	M3AKK-1060K-ND	10.37	90.92
16	Au 30µ"	20 (50.80)	TW	M3AKK-1620K-ND	12.46	109.31
	Au 30µ"	40 (101.60)	TW	M3AKK-1640K-ND	14.04	123.14
	Au 30µ"	60 (152.40)	TW	M3AKK-1660K-ND	15.62	136.97
20	Au 30µ"	20 (50.80)	TW	M3AKK-2020K-ND	14.42	126.45
	Au 30µ"	40 (101.60)	TW	M3AKK-2040K-ND	16.39	143.73
	Au 30µ"	60 (152.40)	TW	M3AKK-2060K-ND	18.36	161.03
26	Au 30µ"	20 (50.80)	TW	M3AKK-2620K-ND	17.42	152.72
	Au 30µ"	40 (101.60)	TW	M3AKK-2640K-ND	19.98	175.20
	Au 30µ"	60 (152.40)	TW	M3AKK-2660K-ND	22.54	197.68
34	Au 30µ"	20 (50.80)	TW	M3AKK-3420K-ND	22.14	194.12
	Au 30µ"	40 (101.60)	TW	M3AKK-3440K-ND	25.49	223.52
	Au 30µ"	60 (152.40)	TW	M3AKK-3460K-ND	28.84	252.91
40	Au 30µ"	20 (50.80)	TW	M3AKK-4020K-ND	25.26	221.54
	Au 30µ"	40 (101.60)	TW	M3AKK-4040K-ND	29.21	256.12
	Au 30µ"	60 (152.40)	TW	M3AKK-4060K-ND	33.15	290.70

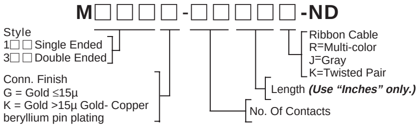
(Continued)

Termination Jumpers

Socket to Plug Connector *(Cont.)*

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
50	Au 30µ”	20 (50.80)	TW	M3AKK-5020K-ND	29.47	258.40
	Au 30µ”	40 (101.60)	TW	M3AKK-5040K-ND	34.40	301.62
	Au 30µ”	60 (152.40)	TW	M3AKK-5060K-ND	39.33	344.85
60	Au 30µ”	20 (50.80)	TW	M3AKK-6020K-ND	35.49	311.22
	Au 30µ”	40 (101.60)	TW	M3AKK-6040K-ND	41.41	363.09
	Au 30µ”	60 (152.40)	TW	M3AKK-6060K-ND	47.32	414.96

Also available in the following configurations:
M3AWK-□□□□K-ND – Socket Connector/Pin Connector w/ Flange w/ PK.
M3BRK-□□□□K-ND – Socket Connector with SR, Pin Connector without Flange with PK and SR.
M3BYK-□□□□K-ND – Socket Connector with SR, Pin Connector with Flange with PK and SR.
M3CKK-□□□□K-ND – Socket Connector with PK, Pin Connector without Flange with PK.
M3CWK-□□□□K-ND – Socket Connector with PK, Pin Connector with Flange with PK.
M3DRK-□□□□K-ND – Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3DYK-□□□□K-ND – Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.
M3TKK-□□□□K-ND – Closed End Socket Connector with PK, Pin Connector without Flange with PK.
M3URK-□□□□K-ND – Closed End Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3UYK-□□□□K-ND – Closed End Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.
Call for complete part number and pricing!


M□□□□-□□□□□-ND

Style
1□□ Single Ended
3□□ Double Ended

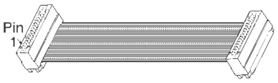
Conn. Finish
G = Gold ≤15µ
K = Gold >15µ Gold- Copper beryllium pin plating

No. Of Contacts

Length ***(Use “Inches” only.)***

Ribbon Cable
R=Multi-color
J=Gray
K=Twisted Pair

Card Edge to Card Edge



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ”	6 (15.24)	MC	M3EEK-1006R-ND	8.72	76.43
	Au 30µ”	6 (15.24)	GR	M3EEK-1006J-ND	8.63	75.71
	Au 30µ”	18 (45.72)	MC	M3EEK-1018R-ND	9.25	81.08
	Au 30µ”	18 (45.72)	GR	M3EEK-1018J-ND	9.00	78.93
	Au 30µ”	36 (91.44)	MC	M3EEK-1036R-ND	10.04	88.05
	Au 30µ”	36 (91.44)	GR	M3EEK-1036J-ND	9.55	83.75
16	Au 30µ”	6 (15.24)	MC	M3EEK-1606R-ND	12.06	105.75
	Au 30µ”	6 (15.24)	GR	M3EEK-1606J-ND	11.93	104.60
	Au 30µ”	18 (45.72)	MC	M3EEK-1618R-ND	12.91	113.20
	Au 30µ”	18 (45.72)	GR	M3EEK-1618J-ND	12.52	109.75
	Au 30µ”	36 (91.44)	MC	M3EEK-1636R-ND	14.18	124.37
	Au 30µ”	36 (91.44)	GR	M3EEK-1636J-ND	13.40	117.47
20	Au 30µ”	6 (15.24)	MC	M3EEK-2006R-ND	14.96	131.19
	Au 30µ”	6 (15.24)	GR	M3EEK-2006J-ND	14.80	129.76
	Au 30µ”	18 (45.72)	MC	M3EEK-2018R-ND	16.02	140.49
	Au 30µ”	18 (45.72)	GR	M3EEK-2018J-ND	15.53	136.19
	Au 30µ”	36 (91.44)	MC	M3EEK-2036R-ND	17.61	154.44
	Au 30µ”	36 (91.44)	MC	M3EEK-2036J-ND	16.63	145.85
26	Au 30µ”	6 (15.24)	MC	M3EEK-2606R-ND	17.78	155.96
	Au 30µ”	6 (15.24)	GR	M3EEK-2606J-ND	17.57	154.09
	Au 30µ”	18 (45.72)	MC	M3EEK-2618R-ND	19.16	168.05
	Au 30µ”	18 (45.72)	GR	M3EEK-2618J-ND	18.53	162.46
	Au 30µ”	36 (91.44)	MC	M3EEK-2636R-ND	21.23	186.19
	Au 30µ”	36 (91.44)	GR	M3EEK-2636J-ND	19.96	175.01
34	Au 30µ”	6 (15.24)	MC	M3EEK-3406R-ND	20.79	182.33
	Au 30µ”	6 (15.24)	GR	M3EEK-3406J-ND	20.51	179.89
	Au 30µ”	18 (45.72)	MC	M3EEK-3418R-ND	22.59	198.13
	Au 30µ”	18 (45.72)	GR	M3EEK-3418J-ND	21.76	190.83
	Au 30µ”	36 (91.44)	MC	M3EEK-3436R-ND	25.30	221.85
	Au 30µ”	36 (91.44)	GR	M3EEK-3436J-ND	23.63	207.24
40	Au 30µ”	6 (15.24)	MC	M3EEK-4006R-ND	25.44	223.05
	Au 30µ”	6 (15.24)	GR	M3EEK-4006J-ND	25.11	220.18
	Au 30µ”	18 (45.72)	MC	M3EEK-4018R-ND	27.56	241.65
	Au 30µ”	18 (45.72)	GR	M3EEK-4018J-ND	26.58	233.05
	Au 30µ”	36 (91.44)	MC	M3EEK-4036R-ND	31.18	273.46
	Au 30µ”	36 (91.44)	GR	M3EEK-4036J-ND	28.78	252.36
50	Au 30µ”	6 (15.24)	MC	M3EEK-5006R-ND	26.42	231.65
	Au 30µ”	6 (15.24)	GR	M3EEK-5006J-ND	26.01	228.06
	Au 30µ”	18 (45.72)	MC	M3EEK-5018R-ND	29.07	254.90
	Au 30µ”	18 (45.72)	GR	M3EEK-5018J-ND	27.84	244.15
	Au 30µ”	36 (91.44)	MC	M3EEK-5036R-ND	33.04	289.78
	Au 30µ”	36 (91.44)	GR	M3EEK-5036J-ND	30.59	268.28
60	Au 30µ”	6 (15.24)	MC	M3EEK-6006R-ND	33.18	290.97
	Au 30µ”	6 (15.24)	GR	M3EEK-6006J-ND	32.69	286.67
	Au 30µ”	18 (45.72)	MC	M3EEK-6018R-ND	36.36	318.88
	Au 30µ”	18 (45.72)	GR	M3EEK-6018J-ND	34.89	305.98
	Au 30µ”	36 (91.44)	MC	M3EEK-6036R-ND	41.14	360.73
	Au 30µ”	36 (91.44)	GR	M3EEK-6036J-ND	38.19	334.93
64	Au 30µ”	6 (15.24)	MC	M3EEK-6406R-ND	33.81	296.46
	Au 30µ”	6 (15.24)	GR	M3EEK-6406J-ND	33.28	291.88
	Au 30µ”	18 (45.72)	MC	M3EEK-6418R-ND	37.20	326.22
	Au 30µ”	18 (45.72)	GR	M3EEK-6418J-ND	35.63	312.47
	Au 30µ”	36 (91.44)	MC	M3EEK-6436R-ND	42.29	370.86
	Au 30µ”	36 (91.44)	GR	M3EEK-6436J-ND	39.15	343.35

Also available in the following configurations:
M3FFK-□□□□□-ND – Card Edge Connector w/ Flange.
M3GGK-□□□□□-ND – Card Edge Connector w/ Slotted Flange.
M3MMK-□□□□□-ND – Card Edge Connector w/ Strain Relief.
Call for complete part number and pricing!

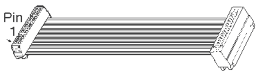
Card Edge to Card Edge

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ”	20 (50.80)	TW	M3EEK-1020K-ND	9.44	82.74
	Au 30µ”	40 (101.60)	TW	M3EEK-1040K-ND	10.42	91.39
	Au 30µ”	60 (152.40)	TW	M3EEK-1060K-ND	11.41	100.04
16	Au 30µ”	20 (50.80)	TW	M3EEK-1620K-ND	13.21	115.86
	Au 30µ”	40 (101.60)	TW	M3EEK-1640K-ND	14.79	129.69
	Au 30µ”	60 (152.40)	TW	M3EEK-1660K-ND	16.37	143.53
20	Au 30µ”	20 (50.80)	TW	M3EEK-2020K-ND	16.40	143.83
	Au 30µ”	40 (101.60)	TW	M3EEK-2040K-ND	18.37	161.12
	Au 30µ”	60 (152.40)	TW	M3EEK-2060K-ND	20.35	178.41
26	Au 30µ”	20 (50.80)	TW	M3EEK-2620K-ND	19.66	172.39
	Au 30µ”	40 (101.60)	TW	M3EEK-2640K-ND	22.22	194.86
	Au 30µ”	60 (152.40)	TW	M3EEK-2660K-ND	24.78	217.34
34	Au 30µ”	20 (50.80)	TW	M3EEK-3420K-ND	23.24	203.81
	Au 30µ”	40 (101.60)	TW	M3EEK-3440K-ND	26.59	233.21
	Au 30µ”	60 (152.40)	TW	M3EEK-3460K-ND	29.95	262.60
40	Au 30µ”	20 (50.80)	TW	M3EEK-4020K-ND	28.32	248.33
	Au 30µ”	40 (101.60)	TW	M3EEK-4040K-ND	32.26	282.91
	Au 30µ”	60 (152.40)	TW	M3EEK-4060K-ND	36.21	317.49
50	Au 30µ”	20 (50.80)	TW	M3EEK-5020K-ND	30.02	263.25
	Au 30µ”	40 (101.60)	TW	M3EEK-5040K-ND	34.95	306.47
	Au 30µ”	60 (152.40)	TW	M3EEK-5060K-ND	39.88	349.70
60	Au 30µ”	20 (50.80)	TW	M3EEK-6020K-ND	37.51	328.89
	Au 30µ”	40 (101.60)	TW	M3EEK-6040K-ND	43.42	380.76
	Au 30µ”	60 (152.40)	TW	M3EEK-6060K-ND	49.34	432.63
64	Au 30µ”	20 (50.80)	TW	M3EEK-6420K-ND	38.42	336.91
	Au 30µ”	40 (101.60)	TW	M3EEK-6440K-ND	44.73	392.24
	Au 30µ”	60 (152.40)	TW	M3EEK-6460K-ND	51.04	447.56

Also available in the following configurations:
M3FFK-□□□□K-ND – with Flange.
M3GGK-□□□□K-ND – with Slotted Flange.
M3MMK-□□□□K-ND – Card Edge Connector w/ Strain Relief.
Call for complete part number and pricing!

Socket Connector to Card Edge Connector



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ”	6 (15.24)	MC	M3AEK-1006R-ND	7.51	65.88
	Au 30µ”	6 (15.24)	GR	M3AEK-1006J-ND	7.43	65.16
	Au 30µ”	18 (45.72)	MC	M3AEK-1018R-ND	8.04	70.53
	Au 30µ”	18 (45.72)	GR	M3AEK-1018J-ND	7.80	68.38
	Au 30µ”	36 (91.44)	MC	M3AEK-1036R-ND	8.84	77.51
	Au 30µ”	36 (91.44)	GR	M3AEK-1036J-ND	8.35	73.21
16	Au 30µ”	6 (15.24)	MC	M3AEK-1606R-ND	10.24	89.79
	Au 30µ”	6 (15.24)	GR	M3AEK-1606J-ND	10.11	88.64
	Au 30µ”	18 (45.72)	MC	M3AEK-1618R-ND	11.09	97.24
	Au 30µ”	18 (45.72)	GR	M3AEK-1618J-ND	10.70	93.79
	Au 30µ”	36 (91.44)	MC	M3AEK-1636R-ND	12.36	108.41
	Au 30µ”	36 (91.44)	GR	M3AEK-1636J-ND	11.58	101.51
20	Au 30µ”	6 (15.24)	MC	M3AEK-2006R-ND	12.17	106.68
	Au 30µ”	6 (15.24)	GR	M3AEK-2006J-ND	12.00	105.25
	Au 30µ”	18 (45.72)	MC	M3AEK-2018R-ND	13.23	115.98
	Au 30µ”	18 (45.72)	GR	M3AEK-2018J-ND	12.74	111.68
	Au 30µ”	36 (91.44)	MC	M3AEK-2036R-ND	14.82	129.93
	Au 30µ”	36 (91.44)	GR	M3AEK-2036J-ND	13.84	121.34
26	Au 30µ”	6 (15.24)	MC	M3AEK-2606R-ND	14.96	131.16
	Au 30µ”	6 (15.24)	GR	M3AEK-2606J-ND	14.74	129.30
	Au 30µ”	18 (45.72)	MC	M3AEK-2618R-ND	16.34	143.26
	Au 30µ”	18 (45.72)	GR	M3AEK-2618J-ND	15.70	137.66
	Au 30µ”	36 (91.44)	MC	M3AEK-2636R-ND	18.40	161.40
	Au 30µ”	36 (91.44)	GR	M3AEK-2636J-ND	17.13	150.21
34	Au 30µ”	6 (15.24)	MC	M3AEK-3406R-ND	18.29	160.38
	Au 30µ”	6 (15.24)	GR	M3AEK-3406J-ND	18.01	157.94
	Au 30µ”	18 (45.72)	MC	M3AEK-3418R-ND	20.09	176.19
	Au 30µ”	18 (45.72)	GR	M3AEK-3418J-ND	19.26	168.88
	Au 30µ”	36 (91.44)	MC	M3AEK-3436R-ND	22.80	199.90
	Au 30µ”	36 (91.44)	GR	M3AEK-3436J-ND	21.13	185.29
40	Au 30µ”	6 (15.24)	MC	M3AEK-4006R-ND	21.99	192.84
	Au 30µ”	6 (15.24)	GR	M3AEK-4006J-ND	21.66	189.97
	Au 30µ”	18 (45.72)	MC	M3AEK-4018R-ND	24.11	211.44
	Au 30µ”	18 (45.72)	GR	M3AEK-4018J-ND	23.13	202.84
	Au 30µ”	36 (91.44)	MC	M3AEK-4036R-ND	27.29	239.35
	Au 30µ”	36 (91.44)	GR	M3AEK-4036J-ND	25.33	222.15
50	Au 30µ”	6 (15.24)	MC	M3AEK-5006R-ND	24.79	217.40
	Au 30µ”	6 (15.24)	GR	M3AEK-5006J-ND	24.38	213.81
	Au 30µ”	18 (45.72)	MC	M3AEK-5018R-ND	27.44	240.65
	Au 30µ”	18 (45.72)	GR	M3AEK-5018J-ND	26.22	229.90
	Au 30µ”	36 (91.44)	MC	M3AEK-5036R-ND	31.42	275.53
	Au 30µ”	36 (91.44)	GR	M3AEK-5036J-ND	28.97	254.03
60	Au 30µ”	6 (15.24)	MC	M3AEK-6006R-ND	30.91	271.02
	Au 30µ”	6 (15.24)	GR	M3AEK-6006J-ND	30.42	266.72
	Au 30µ”	18 (45.72)	MC	M3AEK-6018R-ND	34.09	298.93
	Au 30µ”	18 (45.72)	GR	M3AEK-6018J-ND	32.62	286.03
	Au 30µ”	36 (91.44)	MC	M3AEK-6036R-ND	38.86	340.78
	Au 30µ”	36 (91.44)	GR	M3AEK-6036J-ND	35.92	314.98

Also available in the following configurations:
M3AFK-□□□□□-ND – Socket Connector/Card Edge Connector w/ Flange.
M3AGK-□□□□□-ND – Socket Conn./Card Edge Conn. w/ Slotted Flange.
M3AMK-□□□□□-ND – Socket Conn./Card Edge Conn. w/ Strain Relief.
M3BEK-□□□□□-ND – Socket Connector/Card Edge Connector
M3BFK-□□□□□-ND – Socket Connector/Card Edge Connector w/ Flange.
M3BGK-□□□□□-ND – Socket Conn./Card Edge Conn. w/ Slotted Flange.
M3BMK-□□□□□-ND – Socket Connector with Strain Relief./Card Edge Connector with Strain Relief.
M3CEK-□□□□□-ND – Socket Connector/Card Edge Connector.
M3CFK-□□□□□-ND – Socket Connector/Card Edge Connector w/ Flange.
M3CGK-□□□□□-ND – Socket Conn./Card Edge Conn. w/ Slotted Flange.
M3CMK-□□□□□-ND – Socket Conn. Open End w/ Strain Relief/Card Edge Connector with Strain Relief.
M3DEK-□□□□□-ND – Socket Connector/Card Edge Connector .
M3DFK-□□□□□-ND – Socket Connector/Card Edge Connector w/Flange.
M3DGK-□□□□□-ND – Socket Conn./Card Edge Conn. w/ Slotted Flange.
M3DMK-□□□□□-ND – Socket Conn. Open End w/ PK & Strain Relief/ Card Edge Conn. with Strain Relief.
M3TEK-□□□□□-ND – Socket Connector Closed End with PK/Card Edge Connector Standard.
M3TFK-□□□□□-ND – Socket Connector Closed End with PK/Card Edge Connector with Flange.
M3TGK-□□□□□-ND – Socket Connector Closed End with PK/Card Edge Connector with Slotted Flange.
M3TMK-□□□□□-ND – Socket Connector Closed End with PK/Card Edge Connector with Strain Relief.
M3UEK-□□□□□-ND – Socket Connector Closed End with PK & SR/Card Edge Connector Standard.
M3UFK-□□□□□-ND – Socket Connector Closed End with PK & SR/Card Edge Connector with Flange.
M3UGK-□□□□□-ND – Socket Connector Closed End with PK & SR/Card Edge Connector with Slotted Flange.
M3UMK-□□□□□-ND – Socket Connector Closed End with PK & Strain Relief/Card Edge Connector w/ Strain Relief.
Call for complete part number and pricing!

Socket Connector to Card Edge

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ”	20 (50.80)	TW	M3AEK-1020K-ND	8.23	72.20
	Au 30µ”	40 (101.60)	TW	M3AEK-1040K-ND	9.22	80.85
	Au 30µ”	60 (152.40)	TW	M3AEK-1060K-ND	10.21	89.49
16	Au 30µ”	20 (50.80)	TW	M3AEK-1620K-ND	11.39	99.90
	Au 30µ”	40 (101.60)	TW	M3AEK-1640K-ND	12.97	113.73
	Au 30µ”	60 (152.40)	TW	M3AEK-1660K-ND	14.55	127.57
20	Au 30µ”	20 (50.80)	TW	M3AEK-2020K-ND	13.61	119.32
	Au 30µ”	40 (101.60)	TW	M3AEK-2040K-ND	15.58	136.61
	Au 30µ”	60 (152.40)	TW	M3AEK-2060K-ND	17.55	153.90
26	Au 30µ”	20 (50.80)	TW	M3AEK-2620K-ND	16.83	147.59
	Au 30µ”	40 (101.60)	TW	M3AEK-2640K-ND	19.39	170.07
	Au 30µ”	60 (152.40)	TW	M3AEK-2660K-ND	21.96	192.55
34	Au 30µ”	20 (50.80)	TW	M3AEK-3420K-ND	20.74	181.87
	Au 30µ”	40 (101.60)	TW	M3AEK-3440K-ND	24.09	211.26
	Au 30µ”	60 (152.40)	TW	M3AEK-3460K-ND	27.44	240.65
40	Au 30µ”	20 (50.80)	TW	M3AEK-4020K-ND	24.87	218.12
	Au 30µ”	40 (101.60)	TW	M3AEK-4040K-ND	28.82	252.70
	Au 30µ”	60 (152.40)	TW	M3AEK-4060K-ND	32.76	287.28
50	Au 30µ”	20 (50.80)	TW	M3AEK-5020K-ND	28.39	249.00
	Au 30µ”	40 (101.60)	TW	M3AEK-5040K-ND	33.32	292.22
	Au 30µ”	60 (152.40)	TW	M3AEK-5060K-ND	38.25	335.45
60	Au 30µ”	20 (50.80)	TW	M3AEK-6020K-ND	35.23	308.94
	Au 30µ”	40 (101.60)	TW	M3AEK-6040K-ND	41.15	360.81
	Au 30µ”	60 (152.40)	TW	M3AEK-6060K-ND	47.06	412.68

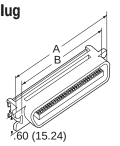
Also available in the following configurations:
M3AFK-□□□□K-ND – Socket Connector/Card Edge Connector w/ Flange.
M3AGK-□□□□K-ND – Socket Conn./Card Edge Conn. with Slotted Flange.
M3AMK-□□□□K-ND – Socket Conn./Card Edge Conn. with Strain Relief.
M3BEK-□□□□K-ND – Socket Connector/Card Edge Connector.
M3BFK-□□□□K-ND – Socket Connector/Card Edge Connector w/ Flange.
M3BGK-□□□□K-ND – Socket Conn./Card Edge Conn. with Slotted Flange.
M3BMK-□□□□K-ND – Socket Connector with Strain Relief/Card Edge Connector with Strain Relief.
M3CEK-□□□□K-ND – Socket Connector/Card Edge Connector.
M3CFK-□□□□K-ND – Socket Connector/Card Edge Conn. with Flange.
M3CGK-□□□□K-ND – Socket Conn./Card Edge Conn. with Slotted Flange.
M3CMK-□□□□K-ND – Socket Connector Open End with PK/Card Edge Connector with Strain Relief.
M3DEK-□□□□K-ND – Socket Connector with SR/Card Edge Connector.
M3DFK-□□□□K-ND – Socket Connector with SR/Card Edge Connector with Flange.
M3DGK-□□□□K-ND – Socket Connector with SR/Card Edge Connector with Slotted Flange.
M3DMK-□□□□K-ND – Socket Conn. Open End w/ PK & Strain Relief/ Card Edge Conn. with Strain Relief.
M3TEK-□□□□K-ND – Socket Connector Closed End w/ PK/Card Edge Connector Stand.
M3TFK-□□□□K-ND – Socket Connector Closed End with PK/Card Edge Connector w/ Flange.
M3TGK-□□□□K-ND – Socket Connector Closed End with PK/Card Edge Connector w/ Slotted Flange.
M3TMK-□□□□K-ND – Socket Connector Closed End with PK/Card Edge Connector w/ Strain Relief.
M3UEK-□□□□K-ND – Socket Connector Closed End with PK & SR/Card Edge Connector Standard.
M3UFK-□□□□K-ND – Socket. Conn. Closed End with PK & SR/Card Edge Connector Flange.
M3UGK-□□□□K-ND – Socket Conn. Closed End with PK & SR/Card Edge Connector w/ Slotted Flange.
M3UMK-□□□□K-ND – Socket Conn. Closed End with PK & Strain Relief/ Card Edge Connector w/Strain Relief.
Call for complete part number and pricing!

Delta Flat Ribbon Cable Connectors

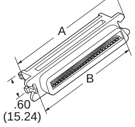
Physical: • Insulation Material: Glass reinforced polyester. Flammability rating: UL 94V-0 • Color: Gray • Contact Material: Flat cable connectors are beryllium copper; Latch eject headers are copper alloy • Plating: 30µ" gold. **Electrical:** • Current Rating: 1A • Insulation Resistance: >1x10⁹ Ω @ 500 VDC • Withstanding Voltage: 1000VRMS @ sea level. **Environmental:** • Temperature Rating: -55°C to +105°C. UL File No.: E68080, CSA File No.: LR-40971

3 mounting designs available. Those with **Prefix MDA** on Digi-Key part number: combination mount, which is a universal mount type that accepts both bail and screw mount hardware. **Prefix MDC:** bail mount, which can be used as a standard I/O connector for various electronic applications. Positive latching and easy disconnect. **Prefix MDB:** screw mount, which have #4-40 threaded insert that simplifies mounting when a more permanent connection is desired • Wire Accommodation: 26-30 AWG stranded

Plug



Socket



No. of Cont.	Dim. – In. (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
Plugs						
14	1.75 (44.45)	1.42 (36.07)	MDA14K-ND	4.41	37.10	3572-1000
	1.58 (40.13)	1.20 (30.48)	MDC14K-ND	4.60	38.68	3572-1001
	1.75 (44.45)	1.42 (36.07)	MDB14K-ND	4.70	39.55	3572-1002
24	2.17 (55.12)	1.84 (46.74)	MDA24K-ND	5.22	43.93	3548-1000
	2.00 (50.80)	1.63 (41.40)	MDC24K-ND	5.45	45.85	3548-1001
	2.17 (55.12)	1.84 (46.74)	MDB24K-ND	5.55	46.73	3548-1002
36	2.68 (68.07)	2.35 (59.69)	MDA36K-ND	6.43	54.08	3366-1000
	2.52 (64.01)	2.14 (54.36)	MDC36K-ND	6.74	56.70	3366-1001
	2.68 (68.07)	2.35 (59.69)	MDB36K-ND	6.88	57.93	3366-1002
50	3.27 (83.06)	2.95 (74.93)	MDA50K-ND	7.65	64.40	3564-1000
	3.11 (78.99)	2.73 (69.34)	MDC50K-ND	8.26	69.48	3564-1001
	3.27 (83.06)	2.95 (74.93)	MDB50K-ND	8.47	71.23	3564-1002
Sockets						
14	1.75 (44.45)	1.42 (36.07)	MDD14K-ND	4.41	37.10	3573-1000
	1.58 (40.13)	1.20 (30.48)	MDF14K-ND	4.60	38.68	3573-1001
	1.75 (44.45)	1.42 (36.07)	MDE14K-ND	4.70	39.55	3573-1002
24	2.17 (55.12)	1.84 (46.74)	MDD24K-ND	5.22	43.93	3549-1000
	2.00 (50.80)	1.63 (41.40)	MDF24K-ND	5.45	45.85	3549-1001
	2.17 (55.12)	1.84 (46.74)	MDE24K-ND	5.55	46.73	3549-1002
36	2.68 (68.07)	2.35 (59.69)	MDD36K-ND	6.43	54.08	3367-1000
	2.52 (64.01)	2.14 (54.36)	MDF36K-ND	6.74	56.70	3367-1001
	2.68 (68.07)	2.35 (59.69)	MDE36K-ND	6.88	57.93	3367-1002
50	3.27 (83.06)	2.95 (74.93)	MDD50K-ND	7.65	64.40	3565-1000
	3.11 (78.99)	2.73 (69.34)	MDF50K-ND	8.26	69.48	3565-1001
	3.27 (83.06)	2.95 (74.93)	MDE50K-ND	8.47	71.23	3565-1002
Backshells						
50	—	—	MDBF50-ND	3.12	26.25	3485-2500
Metal Strain Reliefs						
14	—	—	MDSF14-ND	.44	3.68	3448-60
24	—	—	MDSF24-ND	.44	3.68	3448-61
36	—	—	MDSF36-ND	.44	3.68	3448-62
50	—	—	MDSF50-ND	.44	3.68	3448-63

M□□□□-□□□□□-ND

Style
7□□ Delta

Conn. Finish
G = Gold ≤15µ phosphor bronze
K = Gold >15µ Gold- Copper beryllium pin plating

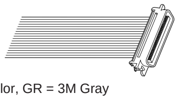
No. Of Contacts

Length ***(Use "Feet" only.)***

Ribbon Cable
R=Multi-color
J=Gray
K=Twisted Pair

Delta Cable Assemblies

Single Ended — Male



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	6 (1.83)	MC	M7KXK-1406R-ND	12.00	105.19
	Au 30µ"	6 (1.83)	GR	M7KXK-1406J-ND	10.62	93.14
	Au 30µ"	10 (3.05)	MC	M7KXK-1410R-ND	14.97	131.24
	Au 30µ"	10 (3.05)	GR	M7KXK-1410J-ND	12.68	111.16
24	Au 30µ"	6 (1.83)	MC	M7KXK-2406R-ND	16.48	144.50
	Au 30µ"	6 (1.83)	GR	M7KXK-2406J-ND	14.12	123.85
	Au 30µ"	10 (3.05)	MC	M7KXK-2410R-ND	21.57	189.15
	Au 30µ"	10 (3.05)	GR	M7KXK-2410J-ND	17.65	154.74
36	Au 30µ"	6 (1.83)	MC	M7KXK-3606R-ND	22.53	197.59
	Au 30µ"	6 (1.83)	GR	M7KXK-3606J-ND	18.90	165.76
	Au 30µ"	10 (3.05)	MC	M7KXK-3610R-ND	30.38	266.43
	Au 30µ"	10 (3.05)	GR	M7KXK-3610J-ND	24.33	213.38
50	Au 30µ"	6 (1.83)	MC	M7KXK-5006R-ND	28.62	250.95
	Au 30µ"	6 (1.83)	GR	M7KXK-5006J-ND	23.71	207.95
	Au 30µ"	10 (3.05)	MC	M7KXK-5010R-ND	39.22	343.96
	Au 30µ"	10 (3.05)	GR	M7KXK-5010J-ND	31.05	272.30

Also available in the following configuration:
M7LX□-□□□□□-ND – Male Delta with Threaded Insert and Strain Relief.
M7QX□-□□□□□-ND – Male Delta with Bail Lock.
Call for complete part number and pricing!

Single Ended — Male

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	5 (1.52)	TW	M7KXK-1405K-ND	11.68	102.43
	Au 30µ"	10 (3.05)	TW	M7KXK-1410K-ND	15.82	138.74
24	Au 30µ"	5 (1.52)	TW	M7KXK-2405K-ND	14.76	129.39
	Au 30µ"	10 (3.05)	TW	M7KXK-2410K-ND	20.67	181.26
36	Au 30µ"	5 (1.52)	TW	M7KXK-3605K-ND	21.40	187.70
	Au 30µ"	10 (3.05)	TW	M7KXK-3610K-ND	32.05	281.07
50	Au 30µ"	5 (1.52)	TW	M7KXK-5005K-ND	27.50	241.11
	Au 30µ"	10 (3.05)	TW	M7KXK-5010K-ND	42.28	370.79

Also available in the following configurations:
M7LX□-□□□□K-ND – Male Delta with Threaded Insert and Strain Relief.
M7QX□-□□□□K-ND – Male Delta with Bail Lock.
Call for complete part number and pricing!

Single Ended — Female

*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	6 (1.83)	MC	M7RXK-1406R-ND	12.00	105.19
	Au 30µ"	6 (1.83)	GR	M7RXK-1406J-ND	10.62	93.14
	Au 30µ"	10 (3.05)	MC	M7RXK-1410R-ND	14.97	131.24
	Au 30µ"	10 (3.05)	GR	M7RXK-1410J-ND	12.68	111.16
24	Au 30µ"	6 (1.83)	MC	M7RXK-2406R-ND	16.48	144.50
	Au 30µ"	6 (1.83)	GR	M7RXK-2406J-ND	14.12	123.85
	Au 30µ"	10 (3.05)	MC	M7RXK-2410R-ND	21.57	189.15
	Au 30µ"	10 (3.05)	GR	M7RXK-2410J-ND	17.65	154.74
36	Au 30µ"	6 (1.83)	MC	M7RXK-3606R-ND	22.53	197.59
	Au 30µ"	6 (1.83)	GR	M7RXK-3606J-ND	18.90	165.76
	Au 30µ"	10 (3.05)	MC	M7RXK-3610R-ND	30.38	266.43
	Au 30µ"	10 (3.05)	GR	M7RXK-3610J-ND	24.33	213.38
50	Au 30µ"	6 (1.83)	MC	M7RXK-5006R-ND	28.62	250.95
	Au 30µ"	6 (1.83)	GR	M7RXK-5006J-ND	23.71	207.95
	Au 30µ"	10 (3.05)	MC	M7RXK-5010R-ND	39.22	343.96
	Au 30µ"	10 (3.05)	GR	M7RXK-5010J-ND	31.05	272.30

Also available in the following configurations:
M7TX□-□□□□□-ND – Female Delta with Insert.
M7UX□-□□□□□-ND – Female Delta with Bail Lock.
Call for complete part number and pricing!

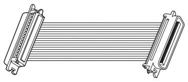
Single Ended — Female

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	5 (1.52)	TW	M7RXK-1405K-ND	11.68	102.43
	Au 30µ"	10 (3.05)	TW	M7RXK-1410K-ND	15.82	138.74
24	Au 30µ"	5 (1.52)	TW	M7RXK-2405K-ND	14.76	129.39
	Au 30µ"	10 (3.05)	TW	M7RXK-2410K-ND	20.67	181.26
36	Au 30µ"	5 (1.52)	TW	M7RXK-3605K-ND	21.40	187.70
	Au 30µ"	10 (3.05)	TW	M7RXK-3610K-ND	32.05	281.07
50	Au 30µ"	5 (1.52)	TW	M7RXK-5005K-ND	27.50	241.11
	Au 30µ"	10 (3.05)	TW	M7RXK-5010K-ND	42.28	370.79

Also available in the following configuration:
M7TX□-□□□□K-ND – Female Delta w/ Insert.
M7UX□-□□□□K-ND – Female Delta w/ Bail Lock.
Call for complete part number and pricing!

Male to Male



*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	6 (1.83)	MC	M7KKK-1406R-ND	19.54	171.31
	Au 30µ"	6 (1.83)	GR	M7KKK-1406J-ND	18.16	159.26
	Au 30µ"	10 (3.05)	MC	M7KKK-1410R-ND	22.51	197.36
	Au 30µ"	10 (3.05)	GR	M7KKK-1410J-ND	20.22	177.28
24	Au 30µ"	6 (1.83)	MC	M7KKK-2406R-ND	25.32	222.02
	Au 30µ"	6 (1.83)	GR	M7KKK-2406J-ND	22.96	201.37
	Au 30µ"	10 (3.05)	MC	M7KKK-2410R-ND	30.41	266.67
	Au 30µ"	10 (3.05)	GR	M7KKK-2410J-ND	26.49	232.26
36	Au 30µ"	6 (1.83)	MC	M7KKK-3606R-ND	33.29	291.93
	Au 30µ"	6 (1.83)	GR	M7KKK-3606J-ND	29.66	260.10
	Au 30µ"	10 (3.05)	MC	M7KKK-3610R-ND	41.14	360.76
	Au 30µ"	10 (3.05)	GR	M7KKK-3610J-ND	35.09	307.71
50	Au 30µ"	6 (1.83)	MC	M7KKK-5006R-ND	41.32	362.38
	Au 30µ"	6 (1.83)	GR	M7KKK-5006J-ND	36.42	319.39
	Au 30µ"	10 (3.05)	MC	M7KKK-5010R-ND	51.93	455.39
	Au 30µ"	10 (3.05)	GR	M7KKK-5010J-ND	43.76	383.73

Also available in the following configuration:
M7LLK-□□□□□-ND – Double Ended Male Delta with Insert.
M7QQK-□□□□□-ND – Double Ended Male Delta with Bail Lock.
Call for complete part number and pricing!

Male to Male

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	5 (1.52)	TW	M7KKK-1405K-ND	19.22	168.55
	Au 30µ"	10 (3.05)	TW	M7KKK-1410K-ND	23.36	204.86
36	Au 30µ"	5 (1.52)	TW	M7KKK-3605K-ND	32.16	282.04
	Au 30µ"	10 (3.05)	TW	M7KKK-3610K-ND	42.81	375.40
50	Au 30µ"	5 (1.52)	TW	M7KKK-5005K-ND	40.20	352.55
	Au 30µ"	10 (3.05)	TW	M7KKK-5010K-ND	54.99	482.22

Also available in the following configuration:
M7LLK-□□□□K-ND – Double Ended Male Delta w/ Insert.
M7QQK-□□□□K-ND – Double Ended Male Delta w/ Bail Lock.
Call for complete part number and pricing!

Female to Female

*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	6 (1.83)	MC	M7RRK-1406R-ND	19.54	171.31
	Au 30µ"	6 (1.83)	GR	M7RRK-1406J-ND	18.16	159.26
	Au 30µ"	10 (3.05)	MC	M7RRK-1410R-ND	22.51	197.36
	Au 30µ"	10 (3.05)	GR	M7RRK-1410J-ND	20.22	177.28
24	Au 30µ"	6 (1.83)	MC	M7RRK-2406R-ND	25.32	222.02
	Au 30µ"	6 (1.83)	GR	M7RRK-2406J-ND	22.96	201.37
	Au 30µ"	10 (3.05)	MC	M7RRK-2410R-ND	30.41	266.67
	Au 30µ"	10 (3.05)	GR	M7RRK-2410J-ND	26.49	232.26
36	Au 30µ"	6 (1.83)	MC	M7RRK-3606R-ND	33.29	291.93
	Au 30µ"	6 (1.83)	GR	M7RRK-3606J-ND	29.66	260.10
	Au 30µ"	10 (3.05)	MC	M7RRK-3610R-ND	41.14	360.76
	Au 30µ"	10 (3.05)	GR	M7RRK-3610J-ND	35.09	307.71
50	Au 30µ"	6 (1.83)	MC	M7RRK-5006R-ND	41.32	362.38
	Au 30µ"	6 (1.83)	GR	M7RRK-5006J-ND	36.42	319.39
	Au 30µ"	10 (3.05)	MC	M7RRK-5010R-ND	51.93	455.39
	Au 30µ"	10 (3.05)	GR	M7RRK-5010J-ND	43.76	383.73

Also available in the following configuration:
M7TTK-□□□□□-ND – Double Ended Female Delta w/ Insert.
M7UUK-□□□□□-ND – Double Ended Female Delta w/ Bail Lock.
Call for complete part number and pricing!

Female to Female

***Twisted Pair Cable Finished Length is Approximate**

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	5 (1.52)	TW	M7RRK-1405K-ND	19.22	168.55
	Au 30µ"	10 (3.05)	TW	M7RRK-1410K-ND	23.36	204.86
36	Au 30µ"	5 (1.52)	TW	M7RRK-3605K-ND	32.16	282.04
	Au 30µ"	10 (3.05)	TW	M7RRK-3610K-ND	42.81	375.40
50	Au 30µ"	5 (1.52)	TW	M7RRK-5005K-ND	40.20	352.55
	Au 30µ"	10 (3.05)	TW	M7RRK-5010K-ND	54.99	482.22

Also available in the following configuration:
M7TTK-□□□□K-ND – Double Ended Female Delta w/ Insert.
M7UUK-□□□□K-ND – Double Ended Female Delta w/ Bail Lock.
Call for complete part number and pricing!

Male to Female

*MC = 3M Multi-Color, GR = 3M Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	6 (1.83)	MC	M7KRK-1406R-ND	19.54	171.31
	Au 30µ"	6 (1.83)	GR	M7KRK-1406J-ND	18.16	159.26
	Au 30µ"	10 (3.05)	MC	M7KRK-1410R-ND	22.51	197.36
	Au 30µ"	10 (3.05)	GR	M7KRK-1410J-ND	20.22	177.28
24	Au 30µ"	6 (1.83)	MC	M7KRK-2406R-ND	25.32	222.02
	Au 30µ"	6 (1.83)	GR	M7KRK-2406J-ND	22.96	201.37
	Au 30µ"	10 (3.05)	MC	M7KRK-2410R-ND	30.41	266.67
	Au 30µ"	10 (3.05)	GR	M7KRK-2410J-ND	26.49	232.26
36	Au 30µ"	6 (1.83)	MC	M7KRK-3606R-ND	33.29	291.93
	Au 30µ"	6 (1.83)	GR	M7KRK-3606J-ND	29.66	260.09
	Au 30µ"	10 (3.05)	MC	M7KRK-3610R-ND	41.14	360.76
	Au 30µ"	10 (3.05)	GR	M7KRK-3610J-ND	35.09	307.71
50	Au 30µ"	6 (1.83)	MC	M7KRK-5006R-ND	41.32	362.38
	Au 30µ"	6 (1.83)	GR	M7KRK-5006J-ND	36.42	319.39
	Au 30µ"	10 (3.05)	MC	M7KRK-5010R-ND	51.93	455.39
	Au 30µ"	10 (3.05)	GR	M7KRK-5010J-ND	43.76	383.73

Also available in the following configuration:
M7LTK-□□□□□-ND – Male Delta/Female Delta w/ Insert.
M7QUK-□□□□□-ND – Male Delta/Female Delta w/ Bail Lock.
Call for complete part number and pricing!

Male to Female

***Twisted Pair Cable Finished Length is Approximate**

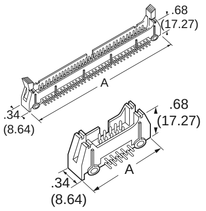
No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
14	Au 30µ"	5 (1.52)	TW	M7KRK-1405K-ND	19.22	168.55
	Au 30µ"	10 (3.05)	TW	M7KRK-1410K-ND	23.36	204.86
36	Au 30µ"	5 (1.52)	TW	M7KRK-3605K-ND	32.16	282.04
	Au 30µ"	10 (3.05)	TW	M7KRK-3610K-ND	42.81	375.40
50	Au 30µ"	5 (1.52)	TW	M7KRK-5005K-ND	40.20	352.55
	Au 30µ"	10 (3.05)	TW	M7KRK-5010K-ND	54.99	482.22

Also available in the following configuration:
M7LTK-□□□□K-ND – Male Delta/Female Delta w/ Insert.
M7QUK-□□□□K-ND – Male Delta/Female Delta w/ Bail Lock.
Call for complete part number and pricing!

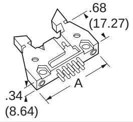
3M Latch/Eject Headers .100" x .100" (2.54mm x 2.54mm)

Four-wall shrouded housing to protect against physical and chemical pin damage. *Order optional ejector latches separately below.*

Right Angle Headers



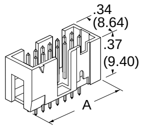
Straight Header



No. of Cont.	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
		Right Angle				
10	1.26 (32.00)	MHR10K-ND	1.54	116.92	529.10	3793-5002
14	1.46 (37.08)	MHR14K-ND	1.71	129.56	586.30	3314-5002
16	1.56 (39.62)	MHR16K-ND	1.77	134.30	607.75	3408-5002
20	1.76 (44.70)	MHR20K-ND	1.98	150.10	679.25	3428-5002
24	1.96 (49.78)	MHR24K-ND	2.18	165.90	750.75	3627-5002
26	2.06 (52.32)	MHR26K-ND	2.33	176.96	800.80	3429-5002
30	2.26 (57.40)	MHR30K-ND	2.68	203.82	922.35	3440-5002
34	2.46 (62.48)	MHR34K-ND	3.02	229.10	1036.75	3431-5002
40	2.76 (70.10)	MHR40K-ND	3.45	262.28	1186.90	3432-5002
50	3.26 (82.80)	MHR50K-ND	4.16	316.00	1430.00	3433-5002
60	3.76 (95.50)	MHR60K-ND	5.12	388.68	1758.90	3372-5002
		Straight				
10	1.26 (32.00)	MHS10K-ND	1.54	116.92	529.10	3793-6002
14	1.46 (37.08)	MHS14K-ND	1.71	129.56	586.30	3314-6002
16	1.56 (39.62)	MHS16K-ND	1.77	134.30	607.75	3408-6002
20	1.76 (44.70)	MHS20K-ND	1.89	143.78	650.65	3428-6002
24	1.96 (49.78)	MHS24K-ND	2.18	165.90	750.75	3627-6002
26	2.06 (52.32)	MHS26K-ND	2.33	176.96	800.80	3429-6002
30	2.26 (57.40)	MHS30K-ND	2.68	203.82	922.35	3440-6002
34	2.46 (62.48)	MHS34K-ND	3.02	229.10	1036.75	3431-6002
40	2.76 (70.10)	MHS40K-ND	3.45	262.28	1186.90	3432-6002
50	3.26 (82.80)	MHS50K-ND	4.16	316.00	1430.00	3433-6002
60	3.76 (95.50)	MHS60K-ND	5.12	388.68	1758.90	3372-6002
		Optional Ejector Latches for Connectors				
Short		MLKS01-ND*	.21/2	7.90	35.75	3505-2
Long		MLKS02-ND†	.21/2	7.90	35.75	3505-3

* Use without strain relief; † Use with strain relief

3M Low Profile Headers (Protected Headers)



Physical Specifications: Insulation: • Material: Glass filled Polyester (PBT) • Flammability: UL94V-0 • Color: Gray • Marking: 3M logo and Orientation Triangle **Contact:** • Material: Phosphor Bronze (C510) **Plating:** • Underplate: 100µ" Nickel--QQ-N-290, Class 2 • Wiping Area: Gold--MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 60/40 Tin Lead--MIL-P-81728 • Wrap Tails: Gold Flash

Electrical Specifications: • Current Rating: 2A • Insulation Resistance: >1x10⁹Ω @ 500Vdc • Withstanding voltage: 1000Vrms at Sea Level

Environmental Specification:
• Temperature Rating: -55°C to +105°C

UL File No.: E68080
CSA File No.: LR 40971

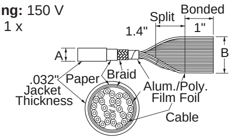
No. of Cont.	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
		Straight Solder Tail				
10	0.79 (20.07)	MHB10K-ND	1.33	101.12	457.60	2510-6002UB
14	0.99 (22.15)	MHB14K-ND	1.37	104.28	471.90	2514-6002UB
16	1.09 (27.69)	MHB16K-ND	1.54	116.92	529.10	2516-6002UB
20	1.29 (32.77)	MHB20K-ND	1.60	121.66	550.55	2520-6002UB
24	1.49 (37.85)	MHB24K-ND	1.68	127.98	579.15	2524-6002UB
26	1.59 (40.39)	MHB26K-ND	1.71	129.56	586.30	2526-6002UB
30	1.79 (45.47)	MHB30K-ND	1.98	150.10	679.25	2530-6002UB
34	1.99 (50.55)	MHB34K-ND	2.06	156.42	707.85	2534-6002UB
40	2.29 (58.17)	MHB40K-ND	2.20	167.48	757.90	2540-6002UB
50	2.79 (70.87)	MHB50K-ND	2.72	206.98	936.65	2550-6002UB
60	3.29 (83.57)	MHB60K-ND	3.27	248.06	1122.55	2560-6002UB
		Right Angle Solder Tail				
10	0.79 (20.07)	MHD10K-ND	1.48	112.18	507.65	2510-5002UB
14	0.99 (22.15)	MHD14K-ND	1.52	115.34	521.95	2514-5002UB
16	1.09 (27.69)	MHD16K-ND	1.68	127.98	579.15	2516-5002UB
20	1.29 (32.77)	MHD20K-ND	1.77	134.30	607.75	2520-5002UB
24	1.49 (37.85)	MHD24K-ND	1.85	140.62	636.35	2524-5002UB
26	1.59 (40.39)	MHD26K-ND	1.87	142.20	643.50	2526-5002UB
30	1.79 (45.47)	MHD30K-ND	2.54	192.76	872.30	2530-5002UB
34	1.99 (50.55)	MHD34K-ND	2.25	170.64	772.20	2534-5002UB
40	2.29 (58.17)	MHD40K-ND	2.41	183.28	829.40	2540-5002UB
50	2.79 (70.87)	MHD50K-ND	3.00	227.52	1029.60	2550-5002UB
60	3.29 (83.57)	MHD60K-ND	3.60	273.34	1236.95	2560-5002UB

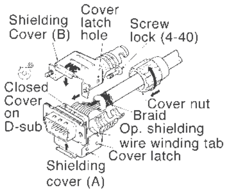
3M Round Jacketed/Shielded Flat Cable 3659 Series

PHYSICAL: • **Insulation Material:** Polyvinyl Chloride (PVC) • **Flammability Rating:** UL VW-1 • **Color:** Black • **Inner Cable:** Scotchflex Product No. 3365; 28 AWG 7 x 36 Conductors; UL Style: 2651 • **Shielding:** 0.001" (.03mm) and 90% Optical Coverage Tinned Copper Braid

ELECTRICAL: • **Volt. Rating:** 150 V • **Insulation Resistance:** > 1 x $10^{10}\Omega$/ 10 ft.

ENVIRONMENTAL:
• **Temperature Rating:**
-4°F to +176°F
(-20°C to +80°C)



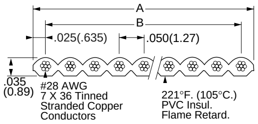


No. of Con-tacts	Dim. (Inch) "A"	"B"	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.
15	.29	.700	MC15R-X-ND	11.54	21.43	47.81	82.44	131.90
20	.30	.950	MC20R-X-ND	12.43	23.08	51.49	88.78	142.04
24	.35	1.150	MC24R-X-ND	13.32	24.73	55.17	95.11	152.18
25	.35	1.200	MC25R-X-ND	13.73	25.50	56.89	98.09	156.94
26	.35	1.250	MC26R-X-ND	14.20	26.38	58.84	101.45	162.32
34	.39	1.650	MC34R-X-ND	15.98	29.68	66.20	114.14	182.62
36	.41	1.750	MC36R-X-ND	16.42	30.50	68.04	117.31	187.70
37	.41	1.800	MC37R-X-ND	16.87	31.32	69.88	120.48	192.76
40	.41	1.950	MC40R-X-ND	17.31	32.15	71.72	123.65	197.84
50	.50	2.450	MC50R-X-ND	19.97	37.09	82.74	142.66	228.26
60	.53	2.950	MC60R-X-ND	22.39	41.58	92.76	159.94	255.90
64	.54	3.150	MC64R-X-ND	23.53	43.69	97.46	168.04	268.86

No. of Contacts	Digi-Key Part No.	Pricing 1	100	500	1,000	3M Part No.
		D-Sub Backshells				
9	MDBS09-ND	3.12	237.00	1072.50	1950.00	3357-9209
15	MDBS15-ND	4.26	323.90	1465.75	2665.00	3357-9215
25	MDBS25-ND	4.58	347.60	1573.00	2860.00	3357-9225
37	MDBS37-ND	6.45	489.80	2216.50	4030.00	3357-9237
50	MDBS50-ND	10.77	818.44	3703.70	6734.00	3357-9250

3M Gray Flat Cable 3365 Series

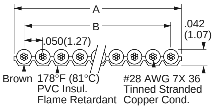
PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Color: Gray • Marking: Red Edge • Conductors: 28 AWG 7x36 Tinned Stranded Copper
ELECTRICAL: • Voltage Rating: 300 V • Insulation Resistance: >1 x $10^{10}\Omega$/ 10 ft.
ENVIRONMENTAL: • Temperature Rating: -4°F to +221°F (-20°C to +105°C)



No. of Contacts	Dimensions Inch (mm) "A"	"B"	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.	300 ft.
10	.500 (12.70)	.450 (11.43)	MC10G-X-ND	1.98	3.67	8.18	14.11	25.40	67.72
14	.700 (17.78)	.650 (16.51)	MC14G-X-ND	2.77	5.14	11.46	19.75	35.56	94.82
16	.800 (20.32)	.750 (19.05)	MC16G-X-ND	3.16	5.87	13.09	22.58	40.64	108.36
20	1.000 (25.40)	.950 (24.13)	MC20G-X-ND	3.95	7.34	16.37	28.23	50.81	135.48
24	1.200 (30.48)	1.150 (29.21)	MC24G-X-ND	4.74	8.81	19.64	33.87	60.96	162.56
26	1.300 (33.02)	1.250 (31.75)	MC26G-X-ND	5.14	9.54	21.28	36.69	66.04	176.12
34	1.700 (43.18)	1.650 (41.91)	MC34G-X-ND	6.72	12.47	27.83	47.98	86.36	230.30
37	1.850 (46.99)	1.800 (45.72)	MC37G-X-ND	7.31	13.58	30.28	52.21	93.98	250.62
40	2.000 (50.80)	1.950 (49.53)	MC40G-X-ND	7.90	14.68	32.74	56.45	101.60	270.94
50	2.500 (63.50)	2.450 (62.23)	MC50G-X-ND	9.88	18.34	40.92	70.55	127.00	338.66
60	3.000 (76.20)	2.950 (74.93)	MC60G-X-ND	11.85	22.01	49.11	84.67	152.40	406.40
64	3.200 (81.28)	3.150 (80.01)	MC64G-X-ND	12.64	23.48	52.38	90.31	162.56	433.50

3M Color Coded Flat Cable 3302 Series

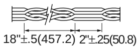
PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Color: 10 Color Repeat, Clear Carrier • Conductors: 28 AWG 7 x 36 Tinned Stranded Copper. **ELECTRICAL:** • Voltage Rating: 300 V • Insulation Resistance: > 1 x $10^{9}\Omega$/ 10 ft. **ENVIRONMENTAL:** • Temperature Rating: -4°F to +176°F (-20°C to +80°C)



No. of Contacts	Dimensions Inch (mm) "A"	"B"	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.	300 ft.
10	.500 (12.70)	.450 (11.43)	MC10M-X-ND	3.06	5.67	12.66	21.83	39.29	104.76
14	.700 (17.78)	.650 (16.51)	MC14M-X-ND	4.28	7.95	17.73	30.56	55.01	146.70
16	.800 (20.32)	.750 (19.05)	MC16M-X-ND	4.89	9.08	20.27	34.94	62.89	167.72
20	1.000 (25.40)	.950 (24.13)	MC20M-X-ND	6.11	11.35	25.32	43.65	78.57	209.52
24	1.200 (30.48)	1.150 (29.21)	MC24M-X-ND	7.33	13.62	30.38	52.39	94.30	251.46
26	1.300 (33.02)	1.250 (31.75)	MC26M-X-ND	7.95	14.76	32.92	56.75	102.16	272.42
34	1.700 (43.18)	1.650 (41.91)	MC34M-X-ND	10.39	19.29	43.03	74.20	133.55	356.14
37	1.850 (46.99)	1.800 (45.72)	MC37M-X-ND	11.31	21.00	46.84	80.76	145.37	387.66
40	2.000 (50.80)	1.950 (49.53)	MC40M-X-ND	12.22	22.70	50.63	87.30	157.14	419.04
50	2.500 (63.50)	2.450 (62.23)	MC50M-X-ND	15.27	28.37	63.28	109.10	196.38	523.78
60	3.000 (76.20)	2.950 (74.93)	MC60M-X-ND	18.33	34.05	75.95	130.95	235.71	628.56
64	3.200 (81.28)	3.150 (80.01)	MC64M-X-ND	19.55	36.31	81.01	139.67	251.41	670.42

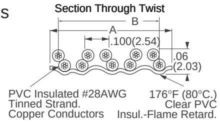
3M Twisted Pair Flat Cable 1700 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1.
ELECTRICAL: • Voltage Rating: 300 V • Insulation Resistance: >1 x $10^{9}\Omega$/ 10ft.
ENVIRONMENTAL: • Temperature Rating: -4°F to +176°F (-20°C to +80°C)



Standard product has alt. 18" (45.72cm) twisted sections and 2" (5.08cm) flat sections.

Section Through Twist



No. of Contacts	Dimensions Inch (mm) "A"	"B"	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.†
10	.50 (12.70)	.450 (11.43)	MC10F-X-ND	2.74	5.10	11.37	19.60	31.36
14	.70 (17.78)	.650 (16.51)	MC14F-X-ND	3.84	7.13	15.91	27.44	43.90
16	.80 (20.32)	.750 (19.05)	MC16F-X-ND	4.39	8.15	18.19	31.36	50.18
20	1.00 (25.40)	.950 (24.13)	MC20F-X-ND	5.49	10.19	22.74	39.20	62.72
26	1.30 (33.02)	1.250 (31.75)	MC26F-X-ND	7.13	13.25	29.56	50.96	81.54
34	1.70 (43.18)	1.650 (41.91)	MC34F-X-ND	9.33	17.33	38.65	66.64	106.62
36	1.80 (45.72)	1.750 (44.45)	MC36F-X-ND	9.88	18.35	40.93	70.56	112.90
40	2.00 (50.80)	1.950 (49.53)	MC40F-X-ND	10.98	20.38	45.47	78.40	125.44
50	2.50 (63.50)	2.450 (62.23)	MC50F-X-ND	13.72	25.48	56.84	98.00	156.80
60	3.00 (76.20)	2.950 (74.93)	MC60F-X-ND	15.73	29.21	65.16	112.35	179.76
64	3.20 (81.28)	3.150 (80.01)	MC64F-X-ND	17.56	32.61	72.75	125.44	200.70

† If ordered in full reel size, may contain a splice. Comes in unreel box.

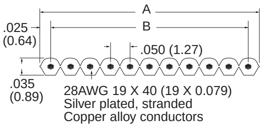
3M High Flex Life Cable 3319 Series

19 strands of high strength copper alloy provide the longest flex life available for dynamic applications.

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Color: Black • Marking, Standard: None • CSA Option: UL AWM 2651 105C 300V VW1, 3M NU, CSA AWM 1A 105C 300V FT1 • Conductors: 28 AWG 19x40 (19x0.079) Silver Plated Stranded Copper Alloy (89% conductivity)

ELECTRICAL: • Voltage Rating: 300 V • Insulation Resistance: >1 x $10^{10}\Omega$/ 10ft. (3m)

ENVIRONMENTAL: • Temperature Rating: -4°F to +221°F (-20°C to +105°C) • Flammability Rating: UL: VW-1, CSA: FT1



No. of Contacts	Dimensions Inch (mm) "A"	"B"	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.
10	.50 (12.70)	.45 (11.43)	MC10H-X-ND	18.99	35.26	78.66	135.63	217.00
14	.70 (17.78)	.65 (16.51)	MC14H-X-ND	26.58	49.37	110.13	189.88	303.80
16	.80 (20.32)	.75 (19.05)	MC16H-X-ND	30.38	56.42	125.86	217.00	347.20
20	1.00 (25.40)	.95 (24.13)	MC20H-X-ND	37.98	70.53	157.33	271.25	434.00
24	1.20 (30.48)	1.15 (29.21)	MC24H-X-ND	45.57	84.63	188.79	325.50	520.80
26	1.30 (33.02)	1.25 (31.75)	MC26H-X-ND	49.37	91.68	204.52	352.63	564.20
34	1.70 (43.18)	1.65 (41.91)	MC34H-X-ND	64.56	119.89	267.45	461.13	737.80
37	1.85 (46.99)	1.80 (45.72)	MC37H-X-ND	70.25	130.47	291.05	501.81	802.90
40	2.00 (50.80)	1.95 (49.53)	MC40H-X-ND	75.95	141.05	314.65	542.50	868.00
50	2.50 (63.50)	2.45 (62.23)	MC50H-X-ND	94.94	176.31	393.31	678.13	1085.00
60	3.00 (76.20)	2.95 (74.93)	MC60H-X-ND	113.93	211.58	471.98	813.75	1302.00
64	3.20 (81.28)	3.15 (80.01)	MC64H-X-ND	121.52	225.67	503.43	867.98	1388.76

ASSMANN Computer Cable Assemblies

Fig. 1 — Parallel Extension

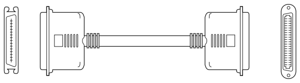


Fig. 2 — Parallel Printer (Snap Hood)

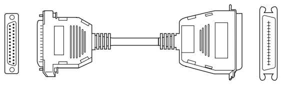


Fig. 3 — Parallel Printer (Molded Hood)

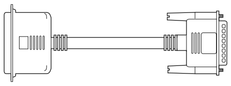


Fig. 4 — Right Angle Parallel Printer

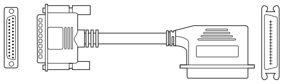


Fig. 5 — Serial Printer (Snap Hoods)

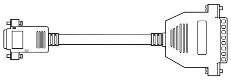


Fig. 6 — IEEE 1284 Bi-Directional Printer

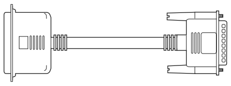


Fig. 7 — IEEE 1284 Bi-Directional Connection

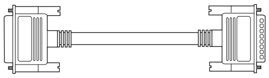


Fig. 8 — IEEE 1284 Bi-Directional Extension

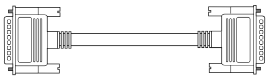


Fig. 9 — Connection Cable, 25-Pin Interface Serial/Parallel

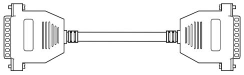


Fig. 10 — 25-Pin Interface Extension

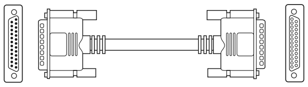


Fig. 11 — 9-Pin Interface Extension

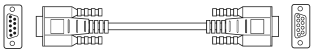


Fig. 12 — VGA Monitor Extension

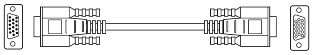


Fig. 13 — Premium VGA Monitor Extension

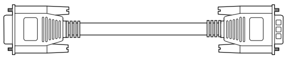


Fig. 14— PC/XT/AT Keyboard Extension

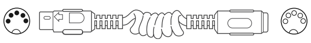


Fig. 15 — PS/2 Keyboard Extension - Spiral

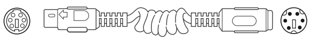


Fig. 16 — PS/2 Keyboard Extension – Straight

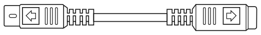


Fig. 17 — PS/2 Keyboard Cable - Straight

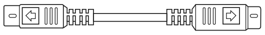
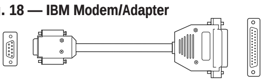
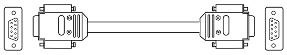


Fig. 18 — IBM Modem/Adapter



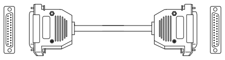
AE1115-ND & AE1030-ND : 1-8, 2-3, 3-2, 4-20, 5-7, 6-6, 7-4, 8-5, 9-22, S-S
AE1031-ND & AE1032-ND: 1-8, 2-2, 3-3, 4-6, 5-7, 6-20, 7-5, 8-4, 9-22, shell-shell

Fig. 19 — Null Modem Cross-Over Cable



AE1033-ND & AE1034-ND: 1-4, 2-3, 3-2, 4-1, 5-5, 7-8, 8-7, 9-9, shell-shell

Fig. 20 — Null Modem Serial Cable



AE1035-ND: 1-1; 2-3; 3-2; 4-5; 5-4; 7-7; 8-20; 15,17-8, 24-15.
AE1036-ND: 2-15, 3-13, 4-12, 5-10, 6-11, 10-5, 11-6, 12-4, 13-3, 15-2, 25-25.
AE1037-ND: 1-1, 2-3, 3-2, 4-5, 5-4, (6+8)-20, 7-7, 20-(6+8).

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
			Molded Extension for 36-Pin Centronics Interfaces					
1	6.56 ft. (2m) 9.84 ft. (3m)	36	2x Centronics 36-Pin Female to Female	AE1000-ND AE1001-ND	12.38 16.50	10.88 14.50	9.75 13.00	AK155-2 AK434-3
	6.56 ft. (2m) 9.84 ft. (3m)	36	2x Centronics 36-Pin Male to Male	AE1002-ND AE1003-ND	10.73 15.02	9.43 13.20	8.45 11.83	AK138-2 AK426-3
	6.56 ft. (2m) 9.84 ft. (3m)	36	2x Centronics 36-Pin Male to Female	AE1004-ND AE1005-ND	11.55 15.68	10.15 13.78	9.10 12.35	AK140-2 AK430-3
			Parallel Printer Cable, IBM PC & Compatibles					
2	5.90 ft (1.8m) 9.84 ft. (3m) 16.40 ft. (5m) 22.96 ft. (7m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Snap-Hoods	AE1006-ND AE1007-ND AE1099-ND AE1100-ND	4.79 7.99 7.06 8.94	4.21 7.02 6.21 7.86	3.77 6.30 5.57 7.05	AK101-1.8 AK102-3 AK103-5 AK104-7
3	6.56 ft. (2m) 9.84 ft. (3m) 22.96 ft. (7m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Molded Hoods	AE1101-ND AE1102-ND AE1104-ND	4.59 5.81 9.47	4.04 5.11 8.33	3.62 4.58 7.47	AK108-2 AK127-3 AK159-7
4	6.56 ft. (2m) 6.56 ft. (2m)	25	D-Sub 25-Pin Male to Right Angle Centronics 36-Pin Male D-Sub 25-Pin Male to Left Angle Centronics 36-Pin Male	AE1008-ND AE1009-ND	8.25 8.25	7.25 7.25	6.50 6.50	AK525-2 AK525-L2
			Parallel Printer Cable, IBM PC & Compatibles					
5	9.84 ft. (3m)	8	D-Sub 9-Pin Female to D-Sub 25-Pin Male, Snap-Hoods	AE1103-ND	3.27	2.88	2.58	AK150-3
			IEEE 1284 Bi-Directional Cable - Molded Hoods					
6	5.90 ft. (1.8m) 9.84 ft. (3m) 16.40 ft. (5m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Printer	AE1105-ND AE1106-ND AE1107-ND	10.26 13.79 18.65	9.02 12.13 16.39	8.09 10.87 14.69	AK711-1.8 AK712-3 AK713-5
7	5.90 ft. (1.8m) 9.84 ft. (3m) 16.40 ft. (5m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Female, Connection	AE1108-ND AE1109-ND AE1110-ND	10.82 14.59 20.53	9.52 12.82 18.04	8.53 11.50 16.18	AK733-1.8 AK734-3 AK735-5
8	5.90 ft. (1.8m) 9.84 ft. (3m) 16.40 ft. (5m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Extension	AE1112-ND AE1113-ND AE1114-ND	10.63 13.93 20.66	9.34 12.24 18.16	8.38 10.98 16.28	AK736-1.8 AK737-3 AK738-5
			Snap-Hood Connection for 25-Pin Interface					
9	6.56 ft. (2m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Snap-Hoods	AE1111-ND	3.83	3.37	3.02	AK401-2
			Molded Extension for 25-Pin Interfaces					
10	6.56 ft. (2m) 9.84 ft. (3m)	25	2x D-Sub 25-Pin Male to Male	AE1010-ND AE1011-ND	6.93 8.58	6.09 7.54	5.46 6.76	AK137-2 AK162-3
	6.56 ft. (2m) 9.84 ft. (3m)	25	2x D-Sub 25-Pin Male to Female	AE1012-ND AE1013-ND	7.06 8.58	6.21 7.54	5.57 6.76	AK135-2 AK166-3
	6.56 ft. (2m) 9.84 ft. (3m)	25	2x D-Sub 25-Pin Female to Female	AE1014-ND AE1015-ND	7.23 10.03	6.36 8.82	5.70 7.91	AK133-2 AK170-3
			Molded Extension for 9-Pin Interfaces					
11	6.56 ft. (2m) 9.84 ft. (3m)	9	2x D-Sub 9-Pin Male to Male	AE1018-ND AE1019-ND	5.35 6.01	4.70 5.28	4.22 4.74	AK129-2 AK174-3
	6.56 ft. (2m) 9.84 ft. (3m)	9	2x D-Sub 9-Pin Male to Female	AE1020-ND AE1021-ND	5.35 6.01	4.70 5.28	4.22 4.74	AK131-2 AK178-3
	6.56 ft. (2m) 9.84 ft. (3m)	9	2x D-Sub 9-Pin Female to Female	AE1016-ND AE1017-ND	5.35 6.11	4.70 5.37	4.22 4.81	AK152-2 AK182-3
			VGA Monitor Extension Cable - IBM PS/2					
12	6.56 ft. (2m)	—	2x H/D D-Sub 15-Pin Male to Female	AE1022-ND	6.01	5.28	4.74	AK322-2
			Molded VGA to 5 x BNC, Monitor Cable					
—	6.56 ft. (2m)	—	HD D-Sub 15-Pin Male to 5 x BBNC Male	AE1116-ND	17.23	15.14	13.58	AK553-2
			Molded Premium VGA Monitor Extension Cable					
13	5.90 ft. (1.8m)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE1117-ND	10.13	8.91	7.99	AK3220-1.8
			IBM PC-XT/AT Keyboard Extension					
14	6.56 ft. (2m) 16.40 ft. (5m)	5	5-Pin Standard Din Male to Female	AE1023-ND AE1024-ND	4.29 8.75	3.77 7.69	3.38 6.89	AK306-2 AK307-5
			Molded PS/2 Keyboard Extension					
15	6.56 ft. (2m) 16.40 ft. (5m)	6	6-Pin Mini Din Male to Female, Spiral	AE1025-ND AE1026-ND	5.84 10.73	5.14 9.43	4.61 8.45	AK323-2 AK528-5
16	6.56 ft. (2m)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Female, Straight	AE1118-ND	2.48	2.18	1.95	AK323/G-2

(Continued)

ASSMANN Computer Cable Assemblies *(Cont.)*

Fig. 21 — PS/2 Keyboard Adapter

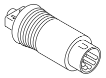
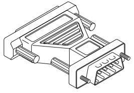


Fig. 22 — D-Sub Adapter



Adapter to assist in the installation of interface systems, using standard cables.

Fig. 23 — PS/2 Mouse Adapter

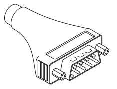


Fig. 24 — PS/2 Mouse-Cable Adapter

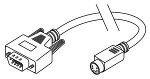


Fig. 25 — Jumper Box

Adapter for special matching of RS 232 interfaces. The link wires included give an easy economical way of permanently reconfiguring pin functions without rewiring cable assemblies.

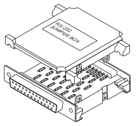


Fig. 26 — Wiring Box

Adapter for special matching of RS 232 interfaces, with the high quality contacts and wire bridges. This adapter can be used many times for the reconfiguration of cables without the need for soldering.

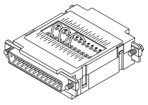


Fig. 27 — *NEW!* CD-ROM Audio Cable

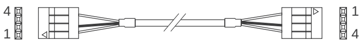


Fig. 28 — *NEW!* CD-ROM Audio Cable

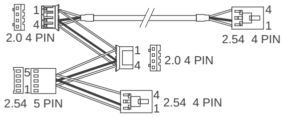


Fig. 29 — *NEW!* CD-ROM Audio Cable

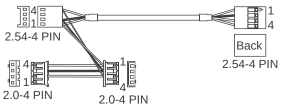


Fig. 30 — *NEW!* CD-ROM Audio Cable

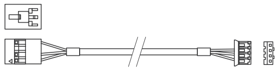


Fig. 31 — *NEW!* Internal S/P - DIF Audio Cable

Fig. 32 — Disk Drive Power Splitters

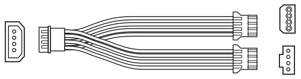


Fig. 33 — Y-Power Cord

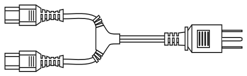


Fig. 34 — Power Cord, Straight/Angled

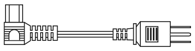


Fig. 35 — Power Cord, Straight/Straight

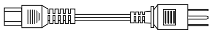


Fig. 36 — *NEW!* Power Cord Single Ended, Straight

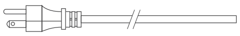


Fig. 37 — Power Cord Single Ended, Straight

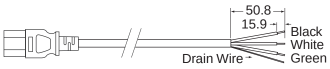


Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
			PS/2 Keyboard Cable - Straight					
17	6.56 ft. (2m)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Male, Molded	AE1119-ND	2.41	2.12	1.90	AK678-2
			PC Modem (AT Adapter Cable)					
18	.82 ft. (.25m)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE1115-ND	1.72	1.51	1.36	AK128-.25
	6.56 ft. (2m)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE1030-ND	4.72	4.15	3.72	AK125-2
			Null Modem Cables					
18	9.84 ft. (3m)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE1031-ND	5.05	4.44	3.98	AK149-3
	9.84 ft. (3m)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Female	AE1032-ND	5.28	4.64	4.16	AK124-3
			Null Modem , Cross-Cables					
19	9.84 ft. (3m)	9	D-Sub 9-Pin Female to D-Sub 9-Pin Female	AE1033-ND	5.68	4.99	4.48	AK143-3
	9.84 ft. (3m)	9	D-Sub 9-Pin Male to D-Sub 9-Pin Female	AE1034-ND	5.68	4.99	4.48	AK142-3
			Null Modem, Serial Cables					
20	9.84 ft. (3m)	25	D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1035-ND	4.39	3.86	3.46	AK144-3
	9.84 ft. (3m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male	AE1036-ND	7.49	6.59	5.91	AK250-3
	9.84 ft. (3m)	25	D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1037-ND	4.39	3.86	3.46	AK251-3
			PS/2 Keyboard Adapters					
21	—	—	1 x MiniDIN, 6-Pin Female to 1 x DIN 5-Pin Male	AE1046-ND	3.93	3.46	3.10	AB961
	—	—	1 x MiniDIN, 6-Pin Male to DIN 5-Pin Female	AE1047-ND	3.04	2.67	2.40	AB440
			D-Sub Adapters					
22	—	—	9-Pin Male to 25-Pin Male	AE1048-ND	3.04	2.67	2.40	AB913
	—	—	9-Pin Female to 25-Pin Male	AE1049-ND	3.04	2.67	2.40	AB914
	—	—	9-Pin Male to 25-Pin Female	AE1050-ND	3.04	2.67	2.40	AB914F
	—	—	9-Pin Female to 25-Pin Female	AE1051-ND	3.04	2.67	2.40	AB915
			PS/2 Mouse Adapters					
23	—	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Male	AE1052-ND	3.00	2.64	2.37	AB401
	—	—	1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Female	AE1053-ND	6.01	5.28	4.74	AB450
	—	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 25-Pin Male	AE1054-ND	6.30	5.54	4.97	AB402
	—	—	1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Male	AE1055-ND	2.77	2.44	2.19	AB405
	—	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Female	AE1156-ND	2.08	1.83	1.64	AB406
	—	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 25-Pin Female	AE1056-ND	7.26	6.38	5.72	AB441
			PS/2 Mouse-Cable Adapters					
24	.5 ft. (.15m)	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Male	AE1154-ND	2.28	2.01	1.80	AB401K
	.5 ft. (.15m)	—	1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Female	AE1158-ND	2.08	1.83	1.64	AB450K
	.5 ft. (.15m)	—	1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Male	AE1155-ND	2.28	2.01	1.80	AB405K
	.5 ft. (.15m)	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Female	AE1157-ND	2.28	2.01	1.80	AB406K
			Jumper Box					
25	—	—	1 x Male, 1 x Female, 25-Pin, Plastic	AE1038-ND	7.39	6.50	5.83	AB972
	—	—	1 x Male, 1 x Female, 25-Pin, Metallized	AE1039-ND	7.82	6.88	6.17	AB973
			Wiring Box					
26	—	—	1 x Male, 1 x Female, 25-Pin, Plastic	AE1040-ND	14.12	12.42	11.13	AB946
	—	—	1 x Male, 1 x Female, 25-Pin, Metallized	AE1041-ND	14.62	12.85	11.52	AB947
			Power Splitter Cables					
27	1.64 ft. (0.5m)	—	Audio CD-ROM 4 Position 3 Wire	AE1276-ND *NEW!*	1.29	1.14	1.02	AK2525
28	1.64 ft. (0.5m)	—	Audio CD-ROM 4-Fold	AE1277-ND *NEW!*	2.77	2.44	2.19	AK615-.5
29	1.64 ft. (0.5m)	—	Audio CD-ROM 3-Fold	AE1278-ND *NEW!*	1.88	1.66	1.49	AK616-.5
30	1.64 ft. (0.5m)	—	Audio CD-ROM 4 Position 3 Wire	AE1275-ND *NEW!*	1.19	1.05	.94	AK2524
31	1.64 ft. (0.5m)	—	Internal Cable 2-Pin Housing/Housing	AE1279-ND *NEW!*	2.01	1.77	1.59	AK2526DVD
32	.66 ft. (.2m)	4	Power Cable for 2 - 5 1/4” Drives	AE1027-ND	1.98	1.74	1.56	AK319-.2
	.66 ft. (.2m)	4	Power Cable for 2 - 3 1/2” Drives	AE1028-ND	1.98	1.74	1.56	AK520-.2
	.66 ft. (.2m)	4	Power Cable for 3 1/2” and 5 1/4” Drives	AE1029-ND	1.98	1.74	1.56	AK521-.2
			Y-Power Cord					
33	6.56 ft. (2m)	—	1 x Power Plug to 2 x Straight Connector, 10A, 125V	AE1120-ND	6.40	5.63	5.05	AK500/Y-U-2
			Power Cords					
34	6.56 ft. (2m)	—	Power Plug, Straight to IEC Connector, Angled, 10A, 125V	AE1121-ND	3.43	3.02	2.71	AK500/U-1
35	6.56 ft. (2m)	—	Power Plug, Straight to IEC Connector, Straight, 10A, 125V	AE1122-ND	3.43	3.02	2.71	AK500/U-2
36	6.56 ft. (2m)	—	Cord SVT 18AWG 3 Cond Shielded	AE1325-ND *NEW!*	3.43	3.02	2.71	AK500-OE-5-2
	9.84 ft. (3m)	—	Cord SVT 18AWG 3 Cond Shielded	AE1326-ND *NEW!*	4.55	4.01	3.59	AK500-OE-5-3
	6.56 ft. (2m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1327-ND *NEW!*	3.66	3.22	2.89	AK500-OE-6-2

(Continued)

ASSMANN Computer Cable Assemblies *(Cont.)*

Fig. 38 — *NEW!* **Power Cord Single Ended, Angled**

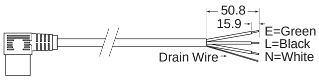


Fig. 39 — *NEW!* **Power Cord Single Ended, Angled**

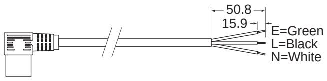


Fig. 40 — *NEW!* **Power Cord Single Ended, Straight**

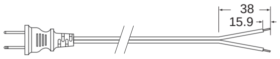


Fig. 41 — Power Cord, Straight/8-Device

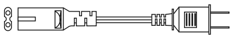


Fig. 42 — *NEW!* **Power Cord Extension**

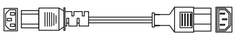


Fig. 43 — *NEW!* **RCA Male to Male**

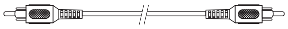


Fig. 44 — *NEW!* **RCA Male to Female**

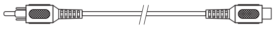


Fig. 45 — *NEW!* **RCA Male to Male**

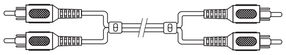


Fig. 46 RCA Male to Female

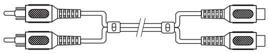


Fig. 47 — *NEW!* **RCA Male to Male, High Quality**

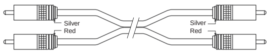


Fig. 48 — *NEW!* **RCA Male to Male, High Quality**

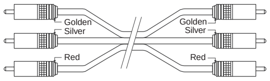


Fig. 49 — *NEW!* **S Video Male to Male and RCA Male to Male, High Quality**

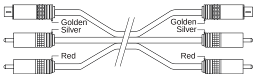


Fig. 50 — *NEW!* **RCA Male to Male, High Quality**

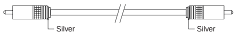


Fig. 51 — *NEW!* **S Video Male to Male, High Quality**

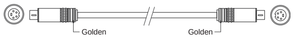


Fig. 52 — *NEW!* **S Video Male to Female, High Quality**

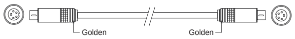


Fig. 53 — *NEW!* **RCA Male to Stereo 3.5mm Male**

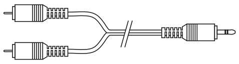


Fig. 54 — *NEW!* **Stereo 3.5mm Male to RCA Female**

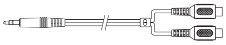


Fig. 55 — *NEW!* **Stereo 3.5mm Male to Male**

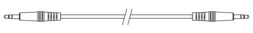


Fig. 56 — Stereo 3.5mm Male to Female

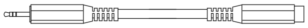


Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
36	9.84 ft. (3m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1328-ND *NEW!*	4.88	4.30	3.85	AK500-OE-6-3
	6.56 ft. (2m)	—	Cord SVT 18AWG 3 Cond Shielded	AE1329-ND *NEW!*	3.66	3.22	2.89	AK500-OE-7-2
	6.56 ft. (2m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1330-ND *NEW!*	4.09	3.60	3.23	AK500-OE-8-2
37	6.56 ft. (2m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1338-ND *NEW!*	3.66	3.22	2.89	AK500-OE-9-2
	9.84 ft. (3m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1339-ND *NEW!*	4.88	4.30	3.85	AK500-OE-9-3
38	6.56 ft. (2m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1331-ND *NEW!*	3.70	3.25	2.92	AK500-RA-5-2
	9.84 ft. (3m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1332-ND *NEW!*	4.88	4.30	3.85	AK500-RA-5-3
39	6.56 ft. (2m)	—	Cord SVT 18AWG 3 Cond	AE1333-ND *NEW!*	3.27	2.88	2.58	AK500-RA-6-2
	6.56 ft. (2m)	—	Cord SJT 18AWG 3 Cond	AE1334-ND *NEW!*	3.27	2.88	2.58	AK500-RA-7-2
	9.84 ft. (3m)	—	Cord SJT 18AWG 3 Cond	AE1335-ND *NEW!*	4.42	3.89	3.49	AK500-RA-7-3
40	6 ft. (1.83m)	—	Cord SPT-1 18AWG 2 Cond	AE1345-ND *NEW!*	1.82	1.60	1.43	AK500-OE-12-6F
	8.99 ft. (2.74m)	—	Cord SPT-1 18AWG 2 Cond	AE1346-ND *NEW!*	2.38	2.09	1.88	AK500-OE-12-9F
	6 ft. (1.83m)	—	Cord SPT-2 18AWG 2 Cond	AE1347-ND *NEW!*	2.18	1.92	1.72	AK500-OE-13-6F
	8 ft. (2.44m)	—	Cord SPT-2 18AWG 2 Cond	AE1348-ND *NEW!*	2.44	2.15	1.93	AK500-OE-13-8F
41	6.56 ft. (2m)	—	Power Plug, Straight to Figure 8 Device Connector, Straight	AE1123-ND	2.15	1.89	1.69	AK500/U-3
Power Cord Extension								
42	6.56 ft. (2m)	—	IEC Plug, Straight to IEC Socket, Straight, 10A, 125V	AE1124-ND	3.73	3.28	2.94	AK500/U-4
	3.28 ft. (1m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1336-ND *NEW!*	3.17	2.79	2.50	AK500-JC-5-1
	3.28 ft. (1m)	—	Cord SJT 18AWG 3 Cond	AE1337-ND *NEW!*	2.90	2.56	2.29	AK500-JC-6-1
	1.64 ft. (.5m)	—	Cord SVT 18AWG 3 Cond Shielded	AE1340-ND *NEW!*	2.54	2.24	2.01	AK500-OE-11-.5
	3.28 ft. (1m)	—	Cord SVT 18AWG 3 Cond Shielded	AE1341-ND *NEW!*	2.90	2.56	2.29	AK500-OE-11-1
	4.92 ft. (1.5m)	—	Cord SVT 18AWG 3 Cond Shielded	AE1342-ND *NEW!*	3.43	3.02	2.71	AK500-OE-11-1.5
	6.56 ft. (2m)	—	Cord SVT 18AWG 3 Cond	AE1343-ND *NEW!*	3.96	3.48	3.12	AK500-OE-11-2
	8.20 ft. (2.5m)	—	Cord SVT 18AWG 3 Cond	AE1344-ND *NEW!*	4.55	4.01	3.59	AK500-OE-11-2.5
Multi Media Cables								
43	4.92 ft. (1.5m)	—	RCA Male to Male	AE1308-ND *NEW!*	1.22	1.08	.97	AK-AV200
	6.56 ft. (2m)	—	RCA Male to Male	AE1044-ND	1.81	1.59	1.43	AK302-2
	8.20 ft. (2.5m)	—	RCA Male to Male	AE1309-ND *NEW!*	1.72	1.51	1.36	AK-AV201
44	8.20 ft. (2.5m)	—	RCA Male to Female	AE1310-ND *NEW!*	1.88	1.66	1.49	AK-AV202
45	4.92 ft. (1.5m)	—	2RCA Male to Male	AE1264-ND *NEW!*	2.11	1.86	1.67	AKCHMM-015
	6.56 ft. (2m)	—	2RCA Male to Male	AE1265-ND *NEW!*	2.21	1.95	1.75	AKCHMM-2
	8.20 ft. (2.5m)	—	2RCA Male to Male	AE1266-ND *NEW!*	2.94	2.59	2.32	AKCHMM-025
	16.40 ft. (5m)	—	2RCA Male to Male	AE1267-ND *NEW!*	3.83	3.37	3.02	AKCHMM-050
46	4.92 ft. (1.5m)	—	2RCA Male to Female (Red and White)	AE1260-ND *NEW!*	2.28	2.01	1.80	AKCHMF-015
	6.56 ft. (2m)	—	2RCA Male to Female (Red and White)	AE1261-ND *NEW!*	2.21	1.95	1.75	AKCHMF-2
	6.56 ft. (2m)	—	2RCA Male to Female (Red and Black)	AE1045-ND	2.44	2.14	1.92	AK3030-2
	8.20 ft. (2.5m)	—	2RCA Male to Female (Red and White)	AE1262-ND *NEW!*	2.94	2.59	2.32	AKCHMF-025
	16.40 ft. (5m)	—	2RCA Male to Female (Red and White)	AE1263-ND *NEW!*	3.83	3.37	3.02	AKCHMF-050
47	4.92 ft. (1.5m)	—	Audio RCA High Quality, Male to Male	AE1349-ND *NEW!*	13.99	12.30	11.03	AK-AV500
	16.40 ft. (5m)	—	Audio RCA High Quality, Male to Male	AE1350-ND *NEW!*	22.44	19.72	17.68	AK-AV501
48	4.92 ft. (1.5m)	—	Audio/Video RCA High Quality, Male to Male	AE1353-ND *NEW!*	20.72	18.22	16.33	AK-AV504
	16.40 ft. (5m)	—	Audio/Video RCA High Quality, Male to Male	AE1354-ND *NEW!*	32.60	28.66	25.69	AK-AV505
49	4.92 ft. (1.5m)	—	Audio/Video RCA High Quality, Male to Male	AE1359-ND *NEW!*	22.64	19.90	17.84	AK-AV510
	16.40 ft. (5m)	—	Audio/Video RCA High Quality, Male to Male	AE1360-ND *NEW!*	36.30	31.90	28.60	AK-AV511
50	4.92 ft. (1.5m)	—	Audio RCA High Quality, Male to Male	AE1351-ND *NEW!*	6.96	6.12	5.49	AK-AV502
	16.40 ft. (5m)	—	Audio RCA High Quality, Male to Male	AE1352-ND *NEW!*	10.30	9.05	8.12	AK-AV503
51	4.92 ft. (1.5m)	—	Video S-VHS High Quality, Male to Male	AE1355-ND *NEW!*	9.83	8.65	7.75	AK-AV506
	16.40 ft. (5m)	—	Video S-VHS High Quality, Male to Male	AE1356-ND *NEW!*	15.25	13.40	12.02	AK-AV507
52	4.92 ft. (1.5m)	—	Video S-VHS High Quality, Male to Female	AE1357-ND *NEW!*	9.50	8.36	7.49	AK-AV508
	16.40 ft. (5m)	—	Video S-VHS High Quality, Male to Female	AE1358-ND *NEW!*	14.32	12.59	11.29	AK-AV509
53	4.92 ft. (1.5m)	—	3.5mm Stereo Male to 2RCA Male	AE1269-ND *NEW!*	3.14	2.76	2.47	AK243-015
	6.56 ft. (2m)	—	3.5mm Stereo Cable, 2 Phono Male	AE1042-ND	6.77	5.95	5.33	AK243-2
	8.20 ft. (2.5m)	—	3.5mm Stereo Male to 2RCA Male	AE1271-ND *NEW!*	3.96	3.48	3.12	AK243-025
	16.40 ft. (5m)	—	3.5mm Stereo Male to 2RCA Male	AE1272-ND *NEW!*	5.74	5.05	4.53	AK243-050
	32.8 ft. (10m)	—	3.5mm Stereo Male to 2RCA Male	AE1273-ND *NEW!*	6.83	6.01	5.39	AK243-10
54	1.18 in. (30mm)	—	3.5mm Stereo Male to 2 RCA Female	AE1274-ND *NEW!*	1.91	1.69	1.51	AK244-2
55	6.56 ft. (2m)	—	3.5mm Stereo Male to Male	AE1268-ND *NEW!*	1.62	1.43	1.28	AK203/MM
56	8.20 ft. (2.5m)	—	3.5mm Stereo Male to Female	AE1043-ND	3.60	3.17	2.84	AK203-2.5

ASSMANN SCSI, USB & CAT5 Computer Cable Assemblies

Fig. 1 — Internal Adapter, Molding

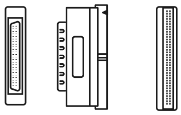


Fig. 2 — Internal Adapter, Assembly

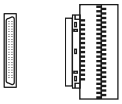


Fig. 3 — Low Profile Adapter

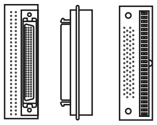


Fig. 4 — SCSI-3 M-F Adapter

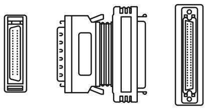


Fig. 5 — SCSI-3 F-F Adapter

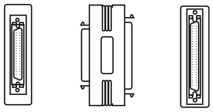


Fig. 6 — SCSI-3 M-M Adapter

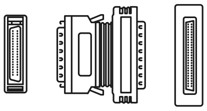


Fig. 7 — SCSI-3 M-F Adapter

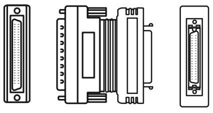


Fig. 8 — Centronic 50 Male

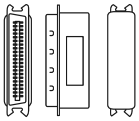


Fig. 9 — Box Header 50 Male

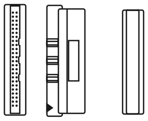


Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
SCSI Series, Internal Adapter								
1	—	—	HP D-sub 68 Male to Box Header 50 Male	AE1057-ND	13.99	12.30	11.03	AB-Y1007
2	—	—	HP D-sub 68 Female to Socket 50 Female	AE1058-ND	18.68	16.42	14.72	AB-Y1008
SCSI Series, Low Profile Adapter								
3	—	50	HPD68 Female to IDC 50 Female	AE1059-ND	20.00	17.58	15.76	AB-Y1014
SCSI-3 Series, Adapter								
4	—	50	HP D-sub 50 Male to HP D-sub 68 Female	AE1060-ND	26.93	23.67	21.22	AB-Y334
5	—	50	HP D-sub 50 Female to HP D-sub 68 Female	AE1061-ND	25.81	22.68	20.34	AB-Y335
6	—	50	HP D-sub 50 Male to HP D-sub 68 Male	AE1062-ND	29.34	25.79	23.12	AB-Y344
7	—	50	HP D-sub 68 Male to HP D-sub 50 Female	AE1063-ND	27.98	24.60	22.05	AB-Y345
SCSI-1 Series, Terminator								
8	—	50	Centronic 50 Male, A Cable, Active	AE1064-ND	15.35	13.49	12.09	AB-Y102T
9	—	50	Box Header 50 Male, A Cable, Active	AE1066-ND	16.47	14.48	12.98	AB-Y130T
10	—	50	Box Header 50 M/F, A Cable, Active	AE1065-ND	20.00	17.58	15.76	AB-Y126T
SCSI-2 Series, Terminator								
11	—	50	HP D-sub 50 Male with Latch, A Cable, Active	AE1067-ND	20.00	17.58	15.76	AB-Y201L
SCSI-3 Series, Terminator								
12	—	68	HP D-sub 68 Male with Latch, P Cable, Passive	AE1068-ND	22.28	19.58	17.55	AB-Y315T
FAST SCSI 2 to SCSI 2 Cable, Shielded, UL 2919								
13	.90	50	D-Sub 50, HP, Male, Clip to D-Sub 50, HP, Male, Clip	AE1163-ND	18.71	16.45	14.75	AK579/F-1
13	2.0	50	D-Sub 50, HP, Male, Clip to D-Sub 50, HP, Male, Clip	AE1164-ND	25.01	21.99	19.71	AK579/F-2
SCSI-2 Series, Round Cable								
14	.91	50	Half-pitch D-sub 50 Male to Centronic 50 Male, A Cable	AE1069-ND	16.60	14.59	13.08	AK-Y1202
SCSI-3 Series, Round Cable								
15	.91	68	Half-pitch D-sub 68 Male X 2, A Cable	AE1070-ND	29.60	26.02	23.33	AK-Y1301
16	.91	50	Half-pitch D-sub 68 Male to Centronic 50 Male, A Cable	AE1071-ND	18.94	16.65	14.93	AK-Y1302
17	.91	50	Half-pitch D-sub 68 Male to Half-pitch D-sub 50 Male, A Cable	AE1072-ND	21.62	19.00	17.03	AK-Y1303
18	.91	25	Half-pitch D-sub 68 Male to D-sub 25 Male, A Cable	AE1073-ND	15.94	14.01	12.56	AK-Y1304
SCSI Series, Flat Cable								
19	2	50	UL 2651, 50 pins, 1.27mm pitch, IDC 50 X 8, P Cable	AE1074-ND	7.06	6.21	5.57	AK-Y2110
SCSI-3 Series, Flat Cable								
20	.45	68	.635mm HP D-sub 68 Male X 2, P Cable	AE1075-ND	13.33	11.72	10.51	AK-Y2301
21	6.0	68	.635mm HP D-sub 68 Male X 3, P Cable	AE1076-ND	21.32	18.74	16.80	AK-Y2302
22	1.2	68	.635mm HP D-sub 68 Male X 5, P Cable	AE1077-ND	29.67	26.08	23.38	AK-Y2303
23	2.0	68	.635mm HP D-sub 68 Male X 8, P Cable	AE1078-ND	43.33	38.08	34.14	AK-Y2304
24	1.6	68	.635mm HP D-sub 68 Female X 2 to .635mm HP D-sub 68 Male X 8	AE1079-ND	59.73	52.49	47.06	AK-Y2310
NEW! Hard Drive Cable for 2 x IDE / AT Bus Hard Drives NEW!								
25	.5	40	(3) 40 Pin Socket Connectors	AE1311-ND	2.67	2.35	2.11	AK5430-.5
NEW! ATA Cable Assemblies NEW!								
26	.46	40	Ultra ATA HDD 100MBPS	AE1312-ND	6.53	5.75	5.15	AK-ATA-100
26	.6	40	Ultra ATA HDD 100MBPS	AE1313-ND	7.39	6.50	5.83	AK-ATA-100/1
27	.46	40	ATA HDD Round	AE1316-ND	25.31	22.25	19.95	AK-ATA-100/ROUND
27	.6	40	ATA HDD Round	AE1314-ND	29.63	26.05	23.35	AK-ATA-100/1/ROUND
27	.9	40	ATA HDD Round	AE1315-ND	15.71	13.81	12.38	AK-ATA-100/2/ROUND
28	.6	40	Ultra ATA Round 2 HDDS	AE1317-ND	12.11	10.65	9.55	AK-ATA-100/ROUND-LC
IEEE1394 Cable Double Shielded								
29	1.8	6	6-Pin Male to 6-Pin Male	AE1125-ND	18.25	16.04	14.38	AK1394-18
	3.0	6	6-Pin Male to 6-Pin Male	AE1128-ND	24.02	21.12	18.93	AK1394-30
	5.0	6	6-Pin Male to 6-Pin Male	AE1131-ND	34.22	30.08	26.97	AK1394-50
	1.8	4	6-Pin Male to 4-Pin Male	AE1126-ND	21.81	19.17	17.19	AK1394-184
	3.0	4	6-Pin Male to 4-Pin Male	AE1129-ND	26.70	23.47	21.04	AK1394-304
	5.0	4	6-Pin Male to 4-Pin Male	AE1132-ND	34.88	30.66	27.49	AK1394-504
	1.8	4	4-Pin Male to 4-Pin Male	AE1127-ND	28.05	24.65	22.10	AK1394-1844
	3.0	4	4-Pin Male to 4-Pin Male	AE1130-ND	32.93	28.95	25.95	AK1394-3044
	5.0	4	4-Pin Male to 4-Pin Male	AE1133-ND	41.12	36.14	32.40	AK1394-5044
IEEE 1394 & USB Connectors								
30	—	—	IEEE 1394 Horizontal SMT	AE7348-ND	2.00	1.76	1.58	A-IE-S-SMT
31	—	—	IEEE Conn. 1394 Horizontal PCB	AE7347-ND	1.90	1.67	1.50	A-IE-S-DIP
32	—	—	IEEE Conn. 1394 Vertical PCB	AE7346-ND	1.90	1.67	1.50	A-IE-E-DIP
33	—	4	USB 4P Female Dip, Type A	AE1083-ND	1.39	1.22	1.10	AU-Y1005

Fig. 10 — Box Header 50 M/F

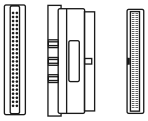


Fig. 11 — D-Sub 50 Male with Latch

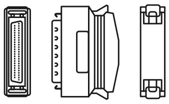


Fig. 12 — D-Sub 68 Male with Latch

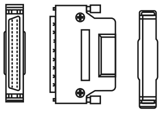


Fig. 13 — SCSI 2 to SCSI 2 Round Cable

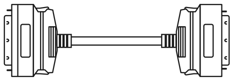


Fig. 14 — SCSI-2 Extension Cable

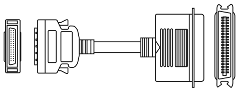


Fig. 15 — SCSI-3 Extension Cable

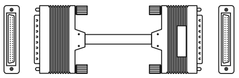


Fig. 16 — SCSI-3 Adapter Cable

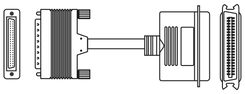


Fig. 17 — SCSI-3 Adapter Cable

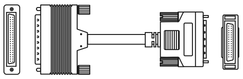


Fig. 18 — SCSI-3 Adapter Cable

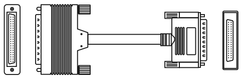


Fig. 19 — SCSI Internal RAID Flat Cable

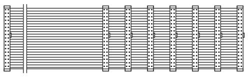


Fig. 20 — SCSI-3 Internal Flat Cable

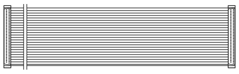


Fig. 21 — SCSI-3 Internal Flat Cable

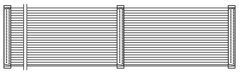


Fig. 22 — SCSI-3 Internal RAID Flat Cable

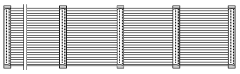
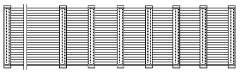


Fig. 23 — SCSI-3 Internal RAID Flat Cable



(Continued)

SCSI, USB & CAT5 Computer Cable Assemblies *(Cont.)*

Fig. 24 — SCSI-3 Internal RAID Flat Cable

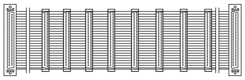


Fig. 25 — *NEW!* **40 Pin Socket Connectors**

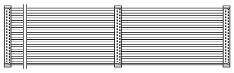


Fig. 26 — *NEW!* **Ultra ATA Cables**

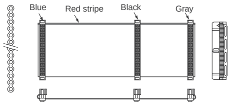


Fig. 27 — *NEW!* **ATA Round Cables**

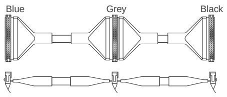


Fig. 28 — *NEW!* **Ultra ATA Round Cables**

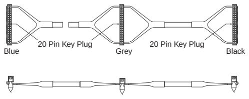


Fig. 29 — IEEE 1394 Cable

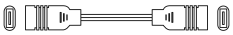


Fig. 30

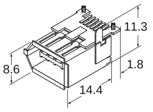


Fig. 31

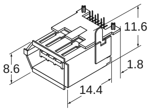


Fig. 32

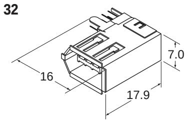


Fig. 33 — USB 4P Female Rt. Angle Dip Connector

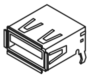


Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
34	—	4	USB 4P Female Type A	AE1084-ND	1.39	1.22	1.10	AU-Y1006
35	—	4	USB 4P Male Dip, Type B	AE1085-ND	1.93	1.70	1.52	AU-Y1007
36	—	4	USB 4P Female Dual Port, Type A	AE1086-ND	2.57	2.27	2.03	AU-Y1008
USB Plugs and Hoods								
37	—	—	USB A-Male, Solder Version	AE1134-ND	.92	.82	.73	A-USBPA
	—	—	USB B-Male, Solder Version	AE1136-ND	1.06	.93	.84	A-USBPB
	—	—	Hood for USB A Male	AE1135-ND	.43	.38	.34	A-USBPA-HOOD
	—	—	Hood for USB B Male	AE1137-ND	.43	.38	.34	A-USBPB-HOOD
USB Cables								
38	1	4	Cable Mini USB 4-Pin Male	AE1280-ND *NEW!*	2.71	2.38	2.14	AK670M-1
	2	4	Cable Mini USB 4-Pin Male	AE1281-ND *NEW!*	3.00	2.64	2.37	AK670M-2
	3	4	Cable Mini USB 4-Pin Male	AE1282-ND *NEW!*	3.89	3.43	3.07	AK670M-3
	5	4	Cable Mini USB 4-Pin Male	AE1283-ND *NEW!*	4.36	3.83	3.44	AK670M-5
	1	4	Cable Mini USB 2.0, 4-Pin Male	AE1288-ND *NEW!*	2.90	2.56	2.29	AK670M/2-1
	2	4	Cable Mini USB 2.0, 4-Pin Male	AE1289-ND *NEW!*	3.23	2.85	2.55	AK670M/2-2
	3	4	Cable Mini USB 2.0, 4-Pin Male	AE1290-ND *NEW!*	3.76	3.31	2.97	AK670M/2-3
	5	4	Cable Mini USB 2.0, 4-Pin Male	AE1291-ND *NEW!*	4.79	4.21	3.77	AK670M/2-5
39	1	4	Cable Mini USB 5-Pin Male	AE1284-ND *NEW!*	2.71	2.38	2.14	AK672M-1
	2	4	Cable Mini USB 5-Pin Male	AE1285-ND *NEW!*	3.00	2.64	2.37	AK672M-2
	3	4	Cable Mini USB 5-Pin Male	AE1286-ND *NEW!*	3.53	3.11	2.79	AK672M-3
	5	4	Cable Mini USB 5-Pin Male	AE1287-ND *NEW!*	4.36	3.83	3.44	AK672M-5
	1	4	Cable Mini USB 2.0, 5-Pin Male	AE1292-ND *NEW!*	2.90	2.56	2.29	AK672M/2-1
	2	4	Cable Mini USB 2.0, 5-Pin Male	AE1293-ND *NEW!*	3.23	2.85	2.55	AK672M/2-2
	3	4	Cable Mini USB 2.0, 5-Pin Male	AE1294-ND *NEW!*	3.76	3.31	2.97	AK672M/2-3
	5	4	Cable Mini USB 2.0, 5-Pin Male	AE1295-ND *NEW!*	4.79	4.21	3.77	AK672M/2-5
40	1.5	4	Cable USB A-A Male	AE1081-ND	3.93	3.46	3.10	AU-Y1001
	2	4	Cable USB A-A Male	AE1141-ND	4.82	4.24	3.80	AK670-2
	5	4	Cable USB A-A Male	AE1142-ND	7.79	6.85	6.14	AK670-5
	1	4	Cable USB 2.0, A-A Male	AE1296-ND *NEW!*	2.77	2.44	2.19	AK670/2-1
	2	4	Cable USB 2.0, A-A Male	AE1297-ND *NEW!*	3.50	3.08	2.76	AK670/2-2
	3	4	Cable USB 2.0, A-A Male	AE1298-ND *NEW!*	4.22	3.72	3.33	AK670/2-3
	5	4	Cable USB 2.0, A-A Male	AE1299-ND *NEW!*	5.74	5.05	4.53	AK670/2-5
41	2	4	Cable USB B-B Male	AE1151-ND	4.95	4.35	3.90	AK673-2
	5	4	Cable USB B-B Male	AE1152-ND	7.95	6.99	6.27	AK673-5
	1	4	Cable USB 2.0, B-B Male	AE1304-ND *NEW!*	2.77	2.44	2.19	AK673/2-1
	2	4	Cable USB 2.0, B-B Male	AE1305-ND *NEW!*	3.50	3.08	2.76	AK673/2-2
	3	4	Cable USB 2.0, B-B Male	AE1306-ND *NEW!*	4.22	3.72	3.33	AK673/2-3
	5	4	Cable USB 2.0, B-B Male	AE1307-ND *NEW!*	5.74	5.05	4.53	AK673/2-5
42	1.5	4	Cable USB A-B Male	AE1082-ND	4.85	4.27	3.83	AU-Y1002A
	2	4	Cable USB A-B Male	AE1144-ND	4.82	4.24	3.80	AK672-2
	5	4	Cable USB A-B Male	AE1145-ND	7.26	6.38	5.72	AK672-5
	1	—	Cable USB 2.0, A-B Male	AE1300-ND *NEW!*	2.77	2.44	2.19	AK672/2-1
	2	—	Cable USB 2.0, A-B Male	AE1301-ND *NEW!*	3.50	3.08	2.76	AK672/2-2
	3	—	Cable USB 2.0, A-B Male	AE1302-ND *NEW!*	4.22	3.72	3.33	AK672/2-3
	5	—	Cable USB 2.0, A-B Male	AE1303-ND *NEW!*	5.74	5.05	4.53	AK672/2-5
	2	4	Cable USB A-B Male, iMac Blue	AE1146-ND	4.95	4.35	3.90	AK672MB
	2	4	Cable USB A-B Male, iMac Purple	AE1147-ND	4.95	4.35	3.90	AK672MG
	2	4	Cable USB A-B Male, iMac Green	AE1148-ND	4.95	4.35	3.90	AK672ML
	2	4	Cable USB A-B Male, iMac Red	AE1149-ND	4.95	4.35	3.90	AK672MS
	2	4	Cable USB A-B Male, iMac Orange	AE1150-ND	4.95	4.35	3.90	AK672MT
43	1.8	4	USB A Male to USB A Female, Dbl. Shield	AE1138-ND	5.28	4.64	4.16	AK669-1.8
	3	4	USB A Male to USB A Female, Dbl. Shield	AE1139-ND	6.50	5.72	5.13	AK669-3
	5	4	USB A Male to USB A Female, Dbl. Shield	AE1140-ND	7.62	6.70	6.01	AK669-5
44	2	4	USB A to Open End	AE1143-ND	3.17	2.79	2.50	AK670-OE
	2	4	USB B to Open End	AE1153-ND	3.23	2.85	2.55	AK673-OE
USB Adapters — Internal/External on Slot Bracket, Double Shielded								
45	0.25	—	2 x USB-A Female to 2 x 5-Pin, 2.54mm Socket Conn.	AE1161-ND	7.10	6.24	5.59	AK674
	0.25	—	2 x USB-A Female to 1 x 8-Pin, 2.54mm Socket Conn.	AE1162-ND	7.49	6.59	5.91	AK674-8
USB Adapters — Molded								
46	—	4	USB Adapter, A Type, Female	AE1080-ND	2.94	2.59	2.32	AU-Y1000-A
	—	4	USB-A Female to USB-B Male	AE1159-ND	6.73	5.92	5.31	A-USB-2
	—	4	USB-A Male to USB-B Female	AE1160-ND	6.73	5.92	5.31	A-USB-3
	—	4	USB-A Female to USB-B Female	AE1318-ND *NEW!*	5.05	4.44	3.98	A-USB-1
	—	4	USB-A Female to USB-A Female	AE1319-ND *NEW!*	5.05	4.44	3.98	A-USB-4
	—	4	USB-A Male to USB-A Male	AE1320-ND *NEW!*	5.05	4.44	3.98	A-USB-5
	—	4	USB-B Male to USB-B Male	AE1321-ND *NEW!*	5.05	4.44	3.98	A-USB-6
47	33mm	—	Adapter USB “Lap Link”	AE1322-ND *NEW!*	26.00	22.86	20.49	DN-3002
	33mm	—	Adapter USB “Netlink”	AE1323-ND*NEW!*	45.47	39.97	35.83	DN-3003
48	30mm	—	Adapter USB-Serial DB9/25 Male	AE1324-ND *NEW!*	42.50	37.36	33.49	DA-70119

Fig. 34 — USB 4P Female SMT Dip Connector

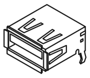


Fig. 35 — USB 4P Male Right Angle Connector

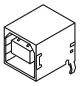


Fig. 36 — USB 4P Female Dual Port Right Angle Dip Connector

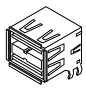


Fig. 37 — USB Plugs and Hoods

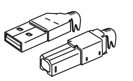


Fig. 38 — *NEW!* **Mini USB Cables with 4 Position Male**

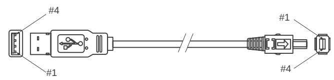


Fig. 39 — *NEW!* **Mini USB Cables with 5 Position Male**

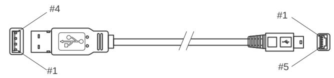


Fig. 40 — *NEW!* **USB Cable, A-A Male**

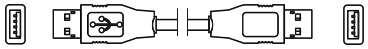


Fig. 41 — *NEW!* **USB Cable, B-B Male**

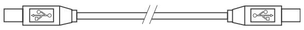


Fig. 42 — *NEW!* **USB Cable, A-B Male**

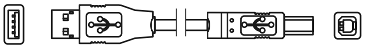


Fig. 43 — USB Extension Cable

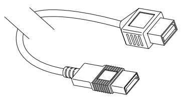


Fig. 44 — USB Cable, A to Open End

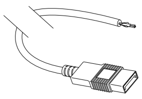


Fig.45 — USB Adapter on Slot Bracket

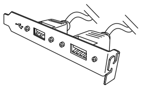
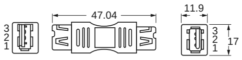


Fig. 46 — *NEW!* **USB Adapters**



(Continued)

ASSMANN SCSI, USB & CAT5 Computer Cable Assemblies *(Cont.)*

Fig. 47 — *NEW!* **USB Adapter Cables "Lap Link" and "Netlink"**

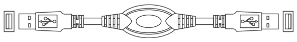


Fig. 48 — *NEW!* **USB to Serial Adapter Cable**

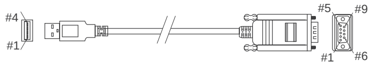


Fig. 49 — Modular Plug

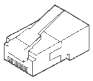


Fig. 50 — CAT 5(e) Patch Cable

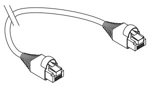
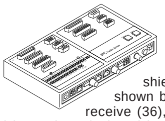


Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
Modular Plugs								
49	—	—	4P4C, Unshielded, for Flat Cable	AE1194-ND	.13	.12	.11	A-MO-4/4-SF
	—	—	6P4C, Unshielded, for Flat Cable	AE1196-ND	.13	.12	.11	A-MO-6/4-SF
	—	—	6P6C, Unshielded, for Flat Cable	AE1198-ND	.20	.18	.16	A-MO-6/6-SF
	—	—	8P8C, Unshielded, for Flat Cable	AE1200-ND	.30	.27	.24	A-MO-8/8-SF
	—	—	8P8C, Shielded, for Flat Cable, CAT5	AE1201-ND	1.52	1.34	1.20	A-MO-8/8-SFS
49	—	—	4P4C, Unshielded, for Round Cable	AE1195-ND	.13	.12	.11	A-MO-4/4-SR
	—	—	6P4C, Unshielded, for Round Cable	AE1197-ND	.13	.12	.11	A-MO-6/4-SR
	—	—	6P6C, Unshielded, for Round Cable	AE1199-ND	.20	.18	.16	A-MO-6/6-SR
	—	—	8P8C, Unshielded, for Round Cable	AE1202-ND	.30	.27	.24	A-MO-8/8-SR
	—	—	8P8C, Shielded, for Round Cable, CAT5	AE1203-ND	1.52	1.34	1.20	A-MO-8/8-SRS

Fig.	Length Meter	Description	Unshielded Version (UTP) Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.	Shielded Version (FTP) Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
PVC Cable Assembly CAT5, RJ45 — Assembled												
50	0.5	CAT 5, Patch Cable, Gray	—	—	—	—	—	AE1090-ND	4.39	3.86	3.46	A-MCS 80005-APGRAY
	2.0	CAT 5, Patch Cable, Gray	AE1089-ND	3.53	3.11	2.79	A-MCU-80020-APGRAY	AE1092-ND	6.30	5.54	4.97	A-MCS 80020-APGRAY
PVC Cable Assembly CAT5, RJ45 — Molded												
50	0.5	CAT 5, Patch Cable, Gray	AE1093-ND	2.51	2.21	1.98	A-MCU-80005-MPGRAY	—	—	—	—	—
	1.0	CAT 5, Patch Cable, Gray	AE1094-ND	3.00	2.64	2.37	A-MCU-80010-MPGRAY	AE1097-ND	5.51	4.85	4.35	A-MCS-80010-MPGRAY
	2.0	CAT 5, Patch Cable, Gray	AE1095-ND	3.73	3.28	2.94	A-MCU-80020-MPGRAY	AE1098-ND	6.73	5.92	5.31	A-MCS-80020-MPGRAY
	3.0	CAT 5, Patch Cable, Gray	AE1184-ND	3.86	3.39	3.04	A-MCU-80030	AE1169-ND	6.01	5.28	4.74	A-MCS-80030
	5	CAT 5, Patch Cable, Gray	AE1189-ND	5.44	4.78	4.29	A-MCU-80050	AE1174-ND	8.15	7.17	6.43	A-MCS-80050
50	2.0	CAT 5, Patch Cable, Blue	—	—	—	—	—	AE1165-ND	4.93	4.34	3.89	A-MCS-80020/B
	3.0	CAT 5, Patch Cable, Blue	—	—	—	—	—	AE1170-ND	6.01	5.28	4.74	A-MCS-80030/B
	5	CAT 5, Patch Cable, Blue	—	—	—	—	—	AE1175-ND	8.15	7.17	6.43	A-MCS-80050/B
	2.0	CAT 5, Patch Cable, Green	AE1181-ND	3.10	2.73	2.45	A-MCU-80020/G	AE1166-ND	4.93	4.34	3.89	A-MCS-80020/G
	3.0	CAT 5, Patch Cable, Green	AE1186-ND	3.86	3.39	3.04	A-MCU-80030/G	AE1171-ND	6.01	5.28	4.74	A-MCS-80030/G
50	5	CAT 5, Patch Cable, Green	AE1191-ND	5.44	4.78	4.29	A-MCU-80050/G	AE1176-ND	8.15	7.17	6.43	A-MCS-80050/G
	2.0	CAT 5, Patch Cable, Red	AE1182-ND	3.10	2.73	2.45	A-MCU-80020/R	AE1167-ND	4.93	4.34	3.89	A-MCS-80020/R
	3.0	CAT 5, Patch Cable, Red	AE1187-ND	3.86	3.39	3.04	A-MCU-80030/R	AE1172-ND	6.01	5.28	4.74	A-MCS-80030/R
	5	CAT 5, Patch Cable, Red	—	—	—	—	—	AE1177-ND	8.15	7.17	6.43	A-MCS-80050/R
	2.0	CAT 5, Patch Cable, Yellow	AE1183-ND	3.10	2.73	2.45	A-MCU-80020/Y	AE1168-ND	4.93	4.34	3.89	A-MCS-80020/Y
50	3.0	CAT 5, Patch Cable, Yellow	AE1188-ND	3.86	3.39	3.04	A-MCU-80030/Y	AE1173-ND	6.01	5.28	4.74	A-MCS-80030/Y
	5	CAT 5, Patch Cable, Yellow	AE1193-ND	5.44	4.78	4.29	A-MCU-80050/Y	AE1178-ND	8.15	7.17	6.43	A-MCS-80050/Y
PVC Cable Assembly CAT5(e), RJ45 — Molded												
50	1.0	CAT .5e, Patch Cable, Gray	AE1208-ND	2.75	2.42	2.17	A-MCUP-80010	AE1233-ND	4.59	4.04	3.62	A-MCSP-80010
	2.0	CAT .5e, Patch Cable, Gray	AE1213-ND	3.67	3.23	2.89	A-MCUP-80020	AE1238-ND	5.96	5.24	4.70	A-MCSP-80020
	3.0	CAT .5e, Patch Cable, Gray	AE1218-ND	4.84	4.26	3.82	A-MCUP-80030	AE1243-ND	7.52	6.62	5.93	A-MCSP-80030
50	5	CAT .5e, Patch Cable, Gray	AE1223-ND	6.86	6.04	5.41	A-MCUP-80050	AE1248-ND	10.36	9.11	8.17	A-MCSP-80050
	10	CAT .5e, Patch Cable, Gray	AE1228-ND	6.24	5.49	4.92	A-MCUP-80100	AE1253-ND	17.19	15.11	13.55	A-MCSP-80100
	1.0	CAT .5e, Patch Cable, Red	AE1209-ND	2.75	2.42	2.17	A-MCUP-80010/R	AE1234-ND	4.59	4.04	3.62	A-MCSP-80010/R
	2.0	CAT .5e, Patch Cable, Red	AE1214-ND	3.67	3.23	2.89	A-MCUP-80020/R	AE1239-ND	5.96	5.24	4.70	A-MCSP-80020/R
	3.0	CAT .5e, Patch Cable, Red	AE1219-ND	4.84	4.26	3.82	A-MCUP-80030/R	AE1244-ND	7.52	6.62	5.93	A-MCSP-80030/R
50	5	CAT .5e, Patch Cable, Red	AE1224-ND	6.86	6.04	5.41	A-MCUP-80050/R	AE1249-ND	10.36	9.11	8.17	A-MCSP-80050/R
	10	CAT .5e, Patch Cable, Red	AE1229-ND	11.68	10.26	9.20	A-MCUP-80100/R	AE1254-ND	17.19	15.11	13.55	A-MCSP-80100/R
	1.0	CAT .5e, Patch Cable, Blue	AE1210-ND	2.75	2.42	2.17	A-MCUP-80010/B	AE1235-ND	4.59	4.04	3.62	A-MCSP-80010/B
	2.0	CAT .5e, Patch Cable, Blue	AE1215-ND	3.67	3.23	2.89	A-MCUP-80020/B	AE1240-ND	5.96	5.24	4.70	A-MCSP-80020/B
	3.0	CAT .5e, Patch Cable, Blue	AE1220-ND	4.84	4.26	3.82	A-MCUP-80030/B	AE1245-ND	7.52	6.62	5.93	A-MCSP-80030/B
50	5	CAT .5e, Patch Cable, Blue	AE1225-ND	6.86	6.04	5.41	A-MCUP-80050/B	AE1250-ND	10.36	9.11	8.17	A-MCSP-80050/B
	10	CAT .5e, Patch Cable, Blue	AE1230-ND	11.68	10.26	9.20	A-MCUP-80100/B	AE1255-ND	17.19	15.11	13.55	A-MCSP-80100/B
	1.0	CAT .5e, Patch Cable, Yellow	AE1211-ND	2.75	2.42	2.17	A-MCUP-80010/Y	AE1236-ND	4.59	4.04	3.62	A-MCSP-80010/Y
	2.0	CAT .5e, Patch Cable, Yellow	AE1216-ND	3.67	3.23	2.89	A-MCUP-80020/Y	AE1241-ND	5.96	5.24	4.70	A-MCSP-80020/Y
	3.0	CAT .5e, Patch Cable, Yellow	AE1221-ND	4.84	4.26	3.82	A-MCUP-80030/Y	AE1246-ND	7.52	6.62	5.93	A-MCSP-80030/Y
50	5	CAT .5e, Patch Cable, Yellow	AE1226-ND	6.86	6.04	5.41	A-MCUP-80050/Y	AE1251-ND	10.36	9.11	8.17	A-MCSP-80050/Y
	10	CAT .5e, Patch Cable, Yellow	AE1231-ND	11.68	10.26	9.20	A-MCUP-80100/Y	AE1256-ND	17.19	15.11	13.55	A-MCSP-80100/Y
	1.0	CAT .5e, Patch Cable, Green	AE1212-ND	2.75	2.42	2.17	A-MCUP-80010/G	AE1237-ND	4.59	4.04	3.62	A-MCSP-80010/G
	2.0	CAT .5e, Patch Cable, Green	AE1217-ND	3.67	3.23	2.89	A-MCUP-80020/G	AE1242-ND	5.96	5.24	4.70	A-MCSP-80020/G
	3.0	CAT .5e, Patch Cable, Green	AE1222-ND	4.84	4.26	3.82	A-MCUP-80030/G	AE1247-ND	7.52	6.62	5.93	A-MCSP-80030/G
50	5	CAT .5e, Patch Cable, Green	AE1227-ND	6.86	6.04	5.41	A-MCUP-80050/G	AE1252-ND	10.36	9.11	8.17	A-MCSP-80050/G
	10	CAT .5e, Patch Cable, Green	AE1232-ND	11.68	10.26	9.20	A-MCUP-80100/G	AE1257-ND	17.19	15.11	13.55	A-MCSP-80100/G

Cable Testers

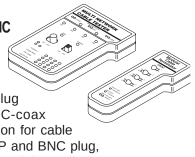
PC Cable Tester, Standalone



All suitable PC cable can be tested with this tester. • Checks: connection, pin allocation and shielding • Pin allocation shown by LEDs: transmit (25), receive (36), battery (1), shielding (2), number of wires (4) • 4 Buttons: Test, auto/manual, speed, on/off • Automatic and manual test run • Connectors: DSub-9 M/F, DSub-15 M/F, DSub-15 HD M/F, DSub-25 M/F Centronics 36 female, BNC male, RJ45 female, USB A+B female, IEEE 1394 female • Power supply by 9V block battery, 9V/150mA external power supply optional • Dimensions (WxDxH): 250mm x 130mm x 35mm

AE1207-ND PC Cable Tester, Standalone (ACT-PC-SO) **$177.78**

Network Cable Tester, RJ45, BNC

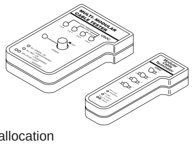


• Cable tester for shielded and unshielded CAT5 cable with RJ45 plug as well as for BNC-coax cable • Test function for cable with RJ45 UTP/STP and BNC plug, patch panels and modular wall plates • Fast test function by auto-scanning • Tests: connection, allocation, pairs according to EIA/TIA 356A, 568A, 568B, Token Ring • Main device with one RJ45 and one BNC female, remote unit with one RJ45 female • With remote unit for testing of installed cable • LEDs for status display • Operation with 9V block battery • Includes artificial leather bag

AE1206-ND Network Cable Tester (ACT-MN) **$69.44**

Modular Cable Tester

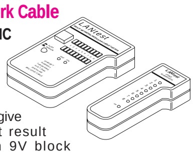
RJ45 / RJ11 / RJ12



- Modular cable tester for cable with RJ45, RJ12 and RJ11 plug
- Fast test function by auto-scanning
- Test: connection, allocation and pairs
- Main device with two RJ45 female; remote unit with one RJ45 female
- Installed cable can be tested with remote unit
- LEDs for status display
- Operation with 9V block battery
- Includes artificial leather bag

AE1204-ND Modular Cable Tester (ACT-MM) **$69.81**

Premium Network Cable Tester RJ45, BNC



• Total of 18 LEDs (for each wire and for shielding) show the allocation and give a fast, exact test result • Operation with 9V block battery • Test function for cable with RJ45/11 UTP/STP & BNC plugs, patch panels and modular wall plates • Includes BNC cable adapter for coax cable test • Manual or automatic test run • Tests: connection, allocation, pairs according to EIA/TIA 356A, 568A, 568B, Token Ring • Main device with two RJ45 female, remote unit with one RJ45 female • Installed cable can be tested with remote unit • Includes artificial leather bag

AE1205-ND Premium Network Cable Tester (ACT-LAN) **$115.55**

USB Connectors

USB Standard Features:

• Broad industry support from computer and telecom leaders • 12 Mbit/sec low-cost data transfer rates • Provides PC/telephone integration and digital connectivity • Standard serial port connector for all devices • Supports daisy chaining and up to 127 devices • Windows '95 Operating Driver support **Applications:** • Desktop and Notebook PCs • Peripherals • Keyboard, Mouse • Telephony, ISDN, PBX's, Handsets

PCB Receptacle Features (Series A):

• Right-angle single, dual-stack • Positive polarization • 1,500 mating cycles • Metal shielding • Four positions with gold-plated contacts: Two for signal on 2mm centerline and two for power on 2.5 mm centerline • Rated for 1.0 Amp max. per contact

USB Receptacles: Electrical:
Voltage: 30V **Current:** 1.0A **Contact Resistance:** 30MΩ max. **Dielectric Withstanding Voltage:** 750VAC **Insulation Resistance:** 1000MΩ min. **Housing:** Glass fiber-filled polyester, UL94V-0 **Contact:** Phosphor Bronze **Metal Shell**: Copper Alloy **Plating:** Gold Flash **Temperature**: 0ºC to +40ºC

Dim. in mm

Fig. 1

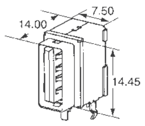


Fig. 2

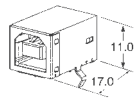


Fig. 3

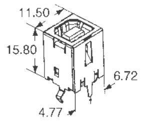


Fig. 4

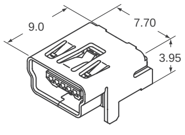


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	Type 'A' Single Upright, Right Angle	WM17106-ND	2.14	1.90	1.27	89485-0000
2	Type 'B' Single Right Angle, Black	WM17108-ND	1.90	1.68	1.12	67068-0000
	Type 'B' Single Right Angle, White	WM17109-ND	1.94	1.72	1.15	67068-1000
3	Type 'B' Vertical with Paired Boardlocks and Grounding Pins	WM17110-ND	1.58	1.40	.93	67265-0000
4	Type 'Mini-B, Right Angle, PCB Mount	WM5974-ND	3.28	2.63	1.76	54819-0511

USB Cable Assemblies and Connectors

Fig. 1 **Dim. in mm**

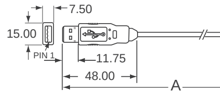


Fig. 2

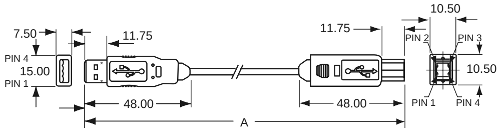


Fig. 3

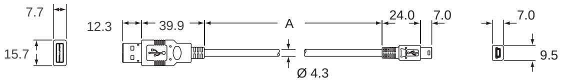


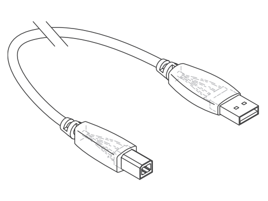
Fig.1 and Fig.2 Features:
Fully-shielded and polarized plugs. Friction grip on over-molded body facilitates easy mating and unmating.
Electrical: • **Voltage:** 30V • **Current:** 1.0A • **Contact Resistance:** 30mΩ max. • **Dielectric Withstanding Volt:** 750V AC • **Insulation Resistance:** 1000MΩ min. **Mechanical:** • **Mating Force:** 35N max. • **Withdrawal Force:** 10N min. • **Durability:** 1500 cycles min.

Fig.3 Features:
• Approximately 1/8 the size of standard USB-B connectors • Fully compliant with current USB 2.0 specifications
Specifications: • **Voltage**: 30V • **Current:** 1.0A • **Contact Resistance:** 50mΩ max. • **Dielectric Withstanding Voltage:** 100 AC/1 minute • **Insulation Resistance:** 100MΩ min.

Fig.	Dim. A (mm)	Description	Digi-Key Part No.	Price Each 1	10	25	Molex Part No.
1	2080	USB Type 'A-to-Pigtail' Full-Rated	WM17104-ND	4.35	3.49	2.91	88728-3400
	2080	USB Type 'A-to-Pigtail' Sub-Channel	WM17105-ND	3.23	2.59	2.16	88738-8200
2	2090	USB Type 'A-to-B' Full-Rated	WM17103-ND	4.55	3.65	3.04	88732-9200
3	1000	USB Type 'A to Mini-B'	WM5975-ND	14.91	11.93	9.94	59204-9401

DELPHI
Connection Systems

NEW! Lighted USB 2.0 Cable Assemblies



Cable assemblies for USB 2.0 (Universal Serial Bus) with integrated illumination at the connectors. These cables add a distinctive glow to their normal job of connecting peripheral devices to computers. They are available in a variety of colors and are ideal for applications that benefit from improved aesthetics, peripheral discrimination, or visual confirmation that the cable is powered-up.

LED Color	Length	Digi-Key Part No.	Price Each 1	10	25	Delphi Part No.
Lighted USB 2.0 Cable Assemblies						
White	1.8M	167-1015-ND	12.54	11.02	9.88	15430623-140
Red	1.8M	167-1016-ND	12.54	11.02	9.88	15430623-240
Green	1.8M	167-1017-ND	12.54	11.02	9.88	15430623-340
Blue	1.8M	167-1018-ND	12.54	11.02	9.88	15430623-440
Orange	1.8M	167-1019-ND	12.54	11.02	9.88	15430623-540

NEW! Mini USB 2.0 Cable Assemblies

Miniature cable assemblies for USB (Universal Serial Bus) based interfaces to small, handheld devices. Mini USBs are used to connect high-speed peripheral devices to computers. Mini USBs are ideal for applications that require small, lightweight connectors.

Fig. 1

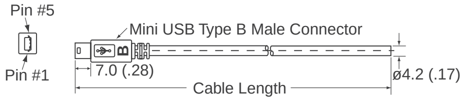


Fig. 2

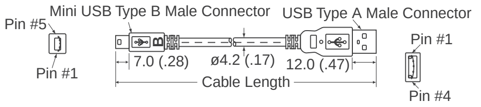
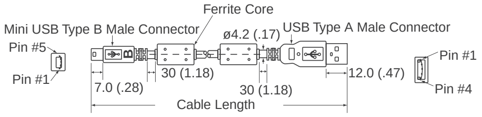


Fig. 3



Length	Digi-Key Part No.	Price Each 1	10	25	Delphi Part No.
Fig. 1 Mini B 2.0 Captive Cable Assemblies					
.3M	167-1007-ND	1.96	1.73	1.55	15431479-010
.5M	167-1008-ND	2.10	1.85	1.66	15431479-020
1M	167-1009-ND	2.36	2.08	1.87	15431479-030
Fig. 2 A to Mini B 2.0 Detachable Cable Assemblies					
.25M	167-1010-ND	2.63	2.32	2.08	15431480-000
1M	167-1011-ND	3.08	2.71	2.43	15431480-010
1.8M	167-1012-ND	3.56	3.14	2.81	15431480-030
Fig. 3 A to Mini B Detachable 2.0 Cable Assemblies with Ferrite Core					
1M	167-1013-ND	3.65	3.21	2.88	15431481-010
1.8M	167-1014-ND	4.14	3.65	3.27	15431481-030

NEW! Plated Through Hole and SMT Mini B Connectors

Fig. 1

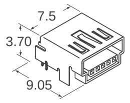
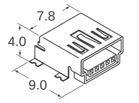


Fig. 2



The purpose of the Mini-B socket is to provide an interconnection between personal computers and peripheral products. The Mini-B receptacle is keyed to allow the device to act as a peripheral. The Mini-B socket is primarily used for high signal level (480 MB/s) data I/O applications. The mating contact surfaces of the connection system should be gold-to-gold. ***Benefits:*** • Meets the speed requirements of USB 2.0 • Meets preliminary requirements of USB OTG (On-The-GO) • SMT and through hole mounting styles are available • Allows for hot plugging of multiple devices • Full metal shields help protect contacts from physical and ESD (Electro Static Discharge) damage ***Features:*** **Operating Voltage:** 30VAC RMS **Shell (Shield) Material:** Brass **Housing Color:** Black **Housing Material:** Nylon GF **Contact Base Material:** Phosphor bronze **Insulation Resistance:** 100MΩ initial **Withstanding Voltage:** 100 VAC RMS **Current Rating:** 1 amp max. per contact **Contact Resistance:** 30mΩ **Temperature Range:** -25°C to + 70°C **Plating (Contact Area):** Gold (thickness varies per Delphi spec.) over nickel underplating **Approvals and Certifications:** UL approved

Gold Content	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Tape & Reel* Pricing	Delphi Part No.
Fig. 1 Plated Through Hole 5 Position , Right Angle, Mini-B Receptacles							
Gold Flash	167-1004-1-ND	1.26	1.12	.75	700	345.11	15430384-100
15µ in.	167-1005-1-ND	1.67	1.47	.98	700	455.50	15430384-200
30µ in.	167-1006-1-ND	1.67	1.47	.98	700	455.50	15430384-300
Fig. 2 Surface Mount 5 Position , Right Angle, Mini-B Receptacles							
Gold Flash	167-1001-1-ND	1.26	1.12	.75	700	345.11	15430383-110
15µ in.	167-1002-1-ND	1.67	1.47	.98	700	455.50	15430383-210
30µ in.	167-1003-1-ND	1.67	1.47	.98	700	455.50	15430383-310

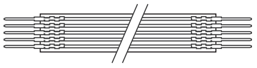
*For Tape and Reel Part No. Change -1 to -2

AMP tyco Electronics
Authorized Distributor

.050” (1.27mm) Flat Flex Cable Assemblies

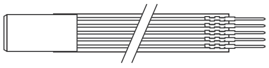
.050 (1.27mm) Flat Flex Cable Material: • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 1.5 amperes (30AWG equivalent) • Voltage Rating: 300 volts • Temperature Rating: -20°C to +105°C • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1 • Dielectric Strength: 2500V/MIL

Solder Tab to Solder Tab



No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9AAT-0402E-ND	.94	7.64	56.28
	3 (76.20)	A9AAT-0403E-ND	1.08	8.78	64.68
	4 (101.60)	A9AAT-0404E-ND	1.22	9.92	73.08
	5 (127.00)	A9AAT-0405E-ND	1.36	11.06	81.48
	6 (152.40)	A9AAT-0406E-ND	1.50	12.20	89.88
	8 (203.20)	A9AAT-0408E-ND	1.78	14.48	106.68
5	2 (50.80)	A9AAT-0502E-ND	1.11	9.03	66.57
	3 (76.20)	A9AAT-0503E-ND	1.25	10.20	75.18
	4 (101.60)	A9AAT-0504E-ND	1.40	11.37	83.79
	5 (127.00)	A9AAT-0505E-ND	1.54	12.54	92.40
	6 (152.40)	A9AAT-0506E-ND	1.68	13.71	101.01
	8 (203.20)	A9AAT-0508E-ND	1.97	16.05	118.23
6	2 (50.80)	A9AAT-0602E-ND	1.28	10.43	76.86
	3 (76.20)	A9AAT-0603E-ND	1.43	11.63	85.68
	4 (101.60)	A9AAT-0604E-ND	1.58	12.83	94.50
	5 (127.00)	A9AAT-0605E-ND	1.72	14.02	103.32
	6 (152.40)	A9AAT-0606E-ND	1.87	15.22	112.14
	8 (203.20)	A9AAT-0608E-ND	2.16	17.61	129.78
7	2 (50.80)	A9AAT-0702E-ND	1.45	11.83	87.15
	3 (76.20)	A9AAT-0703E-ND	1.60	13.05	96.18
	4 (101.60)	A9AAT-0704E-ND	1.75	14.28	105.21
	5 (127.00)	A9AAT-0705E-ND	1.90	15.50	114.24
	6 (152.40)	A9AAT-0706E-ND	2.05	16.73	123.27
	8 (203.20)	A9AAT-0708E-ND	2.36	19.18	141.33
8	2 (50.80)	A9AAT-0802E-ND	1.62	13.22	97.44
	3 (76.20)	A9AAT-0803E-ND	1.78	14.48	106.68
	4 (101.60)	A9AAT-0804E-ND	1.93	15.73	115.92
	5 (127.00)	A9AAT-0805E-ND	2.09	16.99	125.16
	6 (152.40)	A9AAT-0806E-ND	2.24	18.24	134.40
	8 (203.20)	A9AAT-0808E-ND	2.55	20.75	152.88
10	2 (50.80)	A9AAT-1002E-ND	1.97	16.02	118.02
	3 (76.20)	A9AAT-1003E-ND	2.13	17.33	127.68
	4 (101.60)	A9AAT-1004E-ND	2.29	18.64	137.34
	5 (127.00)	A9AAT-1005E-ND	2.45	19.95	147.00
	6 (152.40)	A9AAT-1006E-ND	2.61	21.26	156.66
	8 (203.20)	A9AAT-1008E-ND	2.93	23.88	175.98
12	2 (50.80)	A9AAT-1202E-ND	2.32	18.87	139.02
	3 (76.20)	A9AAT-1203E-ND	2.49	20.26	149.31
	4 (101.60)	A9AAT-1204E-ND	2.66	21.66	159.60
	5 (127.00)	A9AAT-1205E-ND	2.83	23.06	169.89
	6 (152.40)	A9AAT-1206E-ND	3.00	24.45	180.18
	8 (203.20)	A9AAT-1208E-ND	3.35	27.25	200.76
17	2 (50.80)	A9AAT-1702E-ND	3.21	26.16	192.78
	3 (76.20)	A9AAT-1703E-ND	3.42	27.84	205.17
	4 (101.60)	A9AAT-1704E-ND	3.63	29.53	217.56
	5 (127.00)	A9AAT-1705E-ND	3.83	31.21	229.95
	6 (152.40)	A9AAT-1706E-ND	4.04	32.89	242.34
	8 (203.20)	A9AAT-1708E-ND	4.45	36.25	267.12
20	2 (50.80)	A9AAT-2002E-ND	3.77	30.69	226.17
	3 (76.20)	A9AAT-2003E-ND	4.01	32.63	240.45
	4 (101.60)	A9AAT-2004E-ND	4.25	34.57	254.73
	5 (127.00)	A9AAT-2005E-ND	4.48	36.51	269.01
	6 (152.40)	A9AAT-2006E-ND	4.72	38.45	283.29
	8 (203.20)	A9AAT-2008E-ND	5.20	42.32	311.85
22	2 (50.80)	A9AAT-2202E-ND	4.14	33.72	248.43
	3 (76.20)	A9AAT-2203E-ND	4.40	35.82	263.97
	4 (101.60)	A9AAT-2204E-ND	4.66	37.93	279.51
	5 (127.00)	A9AAT-2205E-ND	4.92	40.04	295.05
	6 (152.40)	A9AAT-2206E-ND	5.18	42.15	310.59
	8 (203.20)	A9AAT-2208E-ND	5.69	46.37	341.67
25	2 (50.80)	A9AAT-2502E-ND	4.72	38.42	283.08
	3 (76.20)	A9AAT-2503E-ND	5.02	40.87	301.14
	4 (101.60)	A9AAT-2504E-ND	5.32	43.32	319.20
	5 (127.00)	A9AAT-2505E-ND	5.62	45.77	337.26
	6 (152.40)	A9AAT-2506E-ND	5.92	48.22	355.32
	8 (203.20)	A9AAT-2508E-ND	6.52	53.12	391.44

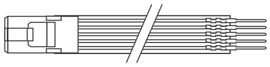
Receptacle Housing to Solder Tab



Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated 30µ gold on mating area.

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9BAA-0402E-ND	2.92	23.80	175.35
	3 (76.20)	A9BAA-0403E-ND	3.06	24.94	183.75
	4 (101.60)	A9BAA-0404E-ND	3.20	26.08	192.15
	5 (127.00)	A9BAA-0405E-ND	3.34	27.22	200.55
	6 (152.40)	A9BAA-0406E-ND	3.48	28.36	208.95
	8 (203.20)	A9BAA-0408E-ND	3.76	30.64	225.75
5	2 (50.80)	A9BAA-0502E-ND	3.26	26.56	195.72
	3 (76.20)	A9BAA-0503E-ND	3.41	27.73	204.33
	4 (101.60)	A9BAA-0504E-ND	3.55	28.90	212.94
	5 (127.00)	A9BAA-0505E-ND	3.69	30.07	221.55
	6 (152.40)	A9BAA-0506E-ND	3.84	31.24	230.16
	8 (203.20)	A9BAA-0508E-ND	4.12	33.57	247.38
6	2 (50.80)	A9BAA-0602E-ND	4.62	37.65	277.41
	3 (76.20)	A9BAA-0603E-ND	4.77	38.85	286.23
	4 (101.60)	A9BAA-0604E-ND	4.92	40.04	295.05
	5 (127.00)	A9BAA-0605E-ND	5.06	41.24	303.87
	6 (152.40)	A9BAA-0606E-ND	5.21	42.44	312.69
	8 (203.20)	A9BAA-0608E-ND	5.51	44.83	330.33
7	2 (50.80)	A9BAA-0702E-ND	3.93	31.98	235.62
	3 (76.20)	A9BAA-0703E-ND	4.08	33.20	244.65
	4 (101.60)	A9BAA-0704E-ND	4.23	34.43	253.68
	5 (127.00)	A9BAA-0705E-ND	4.38	35.65	262.71
	6 (152.40)	A9BAA-0706E-ND	4.53	36.88	271.74
	8 (203.20)	A9BAA-0708E-ND	4.83	39.33	289.80
8	2 (50.80)	A9BAA-0802E-ND	4.26	34.71	255.78
	3 (76.20)	A9BAA-0803E-ND	4.42	35.97	265.02
	4 (101.60)	A9BAA-0804E-ND	4.57	37.22	274.26
	5 (127.00)	A9BAA-0805E-ND	4.73	38.48	283.50
	6 (152.40)	A9BAA-0806E-ND	4.88	39.73	292.74
	8 (203.20)	A9BAA-0808E-ND	5.19	42.24	311.22
10	2 (50.80)	A9BAA-1002E-ND	4.95	40.30	296.94
	3 (76.20)	A9BAA-1003E-ND	5.11	41.61	306.60
	4 (101.60)	A9BAA-1004E-ND	5.27	42.92	316.26
	5 (127.00)	A9BAA-1005E-ND	5.43	44.23	325.92
	6 (152.40)	A9BAA-1006E-ND	5.59	45.54	335.58
	8 (203.20)	A9BAA-1008E-ND	5.92	48.17	354.90
12	2 (50.80)	A9BAA-1202E-ND	5.65	46.03	339.15
	3 (76.20)	A9BAA-1203E-ND	5.82	47.42	349.44
	4 (101.60)	A9BAA-1204E-ND	6.00	48.82	359.73
	5 (127.00)	A9BAA-1205E-ND	6.17	50.22	370.02
	6 (152.40)	A9BAA-1206E-ND	6.34	51.61	380.31
	8 (203.20)	A9BAA-1208E-ND	6.68	54.41	400.89
17	2 (50.80)	A9BAA-1702E-ND	9.42	76.69	565.11
	3 (76.20)	A9BAA-1703E-ND	9.63	78.38	577.50
	4 (101.60)	A9BAA-1704E-ND	9.83	80.06	589.89
	5 (127.00)	A9BAA-1705E-ND	10.04	81.74	602.28
	6 (152.40)	A9BAA-1706E-ND	10.24	83.42	614.67
	8 (203.20)	A9BAA-1708E-ND	10.66	86.78	639.45
20	2 (50.80)	A9BAA-2002E-ND	9.13	74.33	547.68
	3 (76.20)	A9BAA-2003E-ND	9.37	76.27	561.96
	4 (101.60)	A9BAA-2004E-ND	9.60	78.20	576.24
	5 (127.00)	A9BAA-2005E-ND	9.84	80.14	590.52
	6 (152.40)	A9BAA-2006E-ND	10.08	82.08	604.80
	8 (203.20)	A9BAA-2008E-ND	10.56	85.96	633.36
22	2 (50.80)	A9BAA-2202E-ND	10.01	81.51	600.60
	3 (76.20)	A9BAA-2203E-ND	10.27	83.62	616.14
	4 (101.60)	A9BAA-2204E-ND	10.53	85.73	631.68
	5 (127.00)	A9BAA-2205E-ND	10.79	87.84	647.22
	6 (152.40)	A9BAA-2206E-ND	11.05	89.95	662.76
	8 (203.20)	A9BAA-2208E-ND	11.56	94.16	693.84
25	2 (50.80)	A9BAA-2502E-ND	11.35	92.45	681.24
	3 (76.20)	A9BAA-2503E-ND	11.66	94.91	699.30
	4 (101.60)	A9BAA-2504E-ND	11.96	97.36	717.36
	5 (127.00)	A9BAA-2505E-ND	12.26	99.81	735.42
	6 (152.40)	A9BAA-2506E-ND	12.56	102.26	753.48
	8 (203.20)	A9BAA-2508E-ND	13.16	107.16	789.60

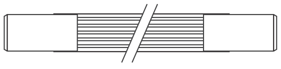
Receptacle Housing with Latch to Solder Tab



Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated 30µ gold on mating area.

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9CAA-0402E-ND	3.15	25.62	188.79
	3 (76.20)	A9CAA-0403E-ND	3.29	26.76	197.19
	4 (101.60)	A9CAA-0404E-ND	3.43	27.90	205.59
	5 (127.00)	A9CAA-0405E-ND	3.57	29.04	213.99
	6 (152.40)	A9CAA-0406E-ND	3.71	30.18	222.39
	8 (203.20)	A9CAA-0408E-ND	3.99	32.46	239.19
5	2 (50.80)	A9CAA-0502E-ND	3.49	28.39	209.16
	3 (76.20)	A9CAA-0503E-ND	3.63	29.55	217.77
	4 (101.60)	A9CAA-0504E-ND	3.77	30.72	226.38
	5 (127.00)	A9CAA-0505E-ND	3.92	31.89	234.99
	6 (152.40)	A9CAA-0506E-ND	4.06	33.06	243.60
	8 (203.20)	A9CAA-0508E-ND	4.35	35.40	260.82
6	2 (50.80)	A9CAA-0602E-ND	3.83	31.15	229.53
	3 (76.20)	A9CAA-0603E-ND	3.97	32.35	238.35
	4 (101.60)	A9CAA-0604E-ND	4.12	33.54	247.17
	5 (127.00)	A9CAA-0605E-ND	4.27	34.74	255.99
	6 (152.40)	A9CAA-0606E-ND	4.41	35.94	264.81
	8 (203.20)	A9CAA-0608E-ND	4.71	38.33	282.45
7	2 (50.80)	A9CAA-0702E-ND	4.17	33.92	249.90
	3 (76.20)	A9CAA-0703E-ND	4.32	35.14	258.93
	4 (101.60)	A9CAA-0704E-ND	4.47	36.37	267.96
	5 (127.00)	A9CAA-0705E-ND	4.62	37.59	276.99
	6 (152.40)	A9CAA-0706E-ND	4.77	38.82	286.02
	8 (203.20)	A9CAA-0708E-ND	5.07	41.27	304.08
8	2 (50.80)	A9CAA-0802E-ND	4.50	36.68	270.27
	3 (76.20)	A9CAA-0803E-ND	4.66	37.93	279.51
	4 (101.60)	A9CAA-0804E-ND	4.81	39.19	288.75
	5 (127.00)	A9CAA-0805E-ND	4.97	40.44	297.99
	6 (152.40)	A9CAA-0806E-ND	5.12	41.70	307.23
	8 (203.20)	A9CAA-0808E-ND	5.43	44.20	325.71
10	2 (50.80)	A9CAA-1002E-ND	5.20	42.35	312.06
	3 (76.20)	A9CAA-1003E-ND	5.36	43.66	321.72
	4 (101.60)	A9CAA-1004E-ND	5.52	44.97	331.38
	5 (127.00)	A9CAA-1005E-ND	5.68	46.28	341.04
	6 (152.40)	A9CAA-1006E-ND	5.85	47.60	350.70
	8 (203.20)	A9CAA-1008E-ND	6.17	50.22	370.02
12	2 (50.80)	A9CAA-1202E-ND	5.92	48.22	355.32
	3 (76.20)	A9CAA-1203E-ND	6.09	49.62	365.61
	4 (101.60)	A9CAA-1204E-ND	6.27	51.02	375.90
	5 (127.00)	A9CAA-1205E-ND	6.44	52.41	386.19
	6 (152.40)	A9CAA-1206E-ND	6.61	53.81	396.48
	8 (203.20)	A9CAA-1208E-ND	6.95	56.60	417.06
17	2 (50.80)	A9CAA-1702E-ND	8.17	66.49	489.93
	3 (76.20)	A9CAA-1703E-ND	8.37	68.17	502.32
	4 (101.60)	A9CAA-1704E-ND	8.58	69.85	514.71
	5 (127.00)	A9CAA-1705E-ND	8.79	71.54	527.10
	6 (152.40)	A9CAA-1706E-ND	8.99	73.22	539.49
	8 (203.20)	A9CAA-1708E-ND	9.40	76.58	564.27
20	2 (50.80)	A9CAA-2002E-ND	9.54	77.72	572.67
	3 (76.20)	A9CAA-2003E-ND	9.78	79.66	586.95
	4 (101.60)	A9CAA-2004E-ND	10.02	81.60	601.23
	5 (127.00)	A9CAA-2005E-ND	10.26	83.53	615.51
	6 (152.40)	A9CAA-2006E-ND	10.50	85.47	629.79
	8 (203.20)	A9CAA-2008E-ND	10.97	89.35	658.35
22	2 (50.80)	A9CAA-2202E-ND	10.47	85.22	627.90
	3 (76.20)	A9CAA-2203E-ND	10.72	87.32	643.44
	4 (101.60)	A9CAA-2204E-ND	10.98	89.43	658.98
	5 (127.00)	A9CAA-2205E-ND	11.24	91.54	674.52
	6 (152.40)	A9CAA-2206E-ND	11.50	93.65	690.06
	8 (203.20)	A9CAA-2208E-ND	12.02	97.87	721.14
25	2 (50.80)	A9CAA-2502E-ND	11.87	96.64	712.11
	3 (76.20)	A9CAA-2503E-ND	12.17	99.09	730.17
	4 (101.60)	A9CAA-2504E-ND	12.47	101.55	748.23
	5 (127.00)	A9CAA-2505E-ND	12.77	104.00	766.29
	6 (152.40)	A9CAA-2506E-ND	13.07	106.45	784.35
	8 (203.20)	A9CAA-2508E-ND	13.67	111.35	820.47

Receptacle Housing to Receptacle Housing



Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts. 30µ gold on mating area.

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9BBA-0402E-ND	4.91	39.99	294.63
	3 (76.20)	A9BBA-0403E-ND	5.05	41.13	303.03
	4 (101.60)	A9BBA-0404E-ND	5.19	42.27	311.43
	5 (127.00)	A9BBA-0405E-ND	5.33	43.41	319.83
	6 (152.40)	A9BBA-0406E-ND	5.47	44.55	328.23
	8 (203.20)	A9BBA-0408E-ND	5.75	46.83	345.03
5	2 (50.80)	A9BBA-0502E-ND	5.41	44.06	324.66
	3 (76.20)	A9BBA-0503E-ND	5.55	45.23	333.27
	4 (101.60)	A9BBA-0504E-ND	5.70	46.40	341.88
	5 (127.00)	A9BBA-0505E-ND	5.84	47.57	350.49
	6 (152.40)	A9BBA-0506E-ND	5.99	48.74	359.10
	8 (203.20)	A9BBA-0508E-ND	6.27	51.07	376.32
6	2 (50.80)	A9BBA-0602E-ND	7.97	64.89	478.17
	3 (76.20)	A9BBA-0603E-ND	8.12	66.09	486.99
	4 (101.60)	A9BBA-0604E-ND	8.26	67.29	495.81
	5 (127.00)	A9BBA-0605E-ND	8.41	68.49	504.63
	6 (152.40)	A9BBA-0606E-ND	8.56	69.68	513.45
	8 (203.20)	A9BBA-0608E-ND	8.85	72.08	531.09
7	2 (50.80)	A9BBA-0702E-ND	6.41	52.16	384.30
	3 (76.20)	A9BBA-0703E-ND	6.56	53.38	393.33
	4 (101.60)	A9BBA-0704E-ND	6.71	54.61	402.36
	5 (127.00)	A9BBA-0705E-ND	6.86	55.83	411.39
	6 (152.40)	A9BBA-0706E-ND	7.01	57.06	420.42
	8 (203.20)	A9BBA-0708E-ND	7.31	59.51	438.48
8	2 (50.80)	A9BBA-0802E-ND	6.90	56.20	414.12
	3 (76.20)	A9BBA-0803E-ND	7.06	57.46	423.36
	4 (101.60)	A9BBA-0804E-ND	7.21	58.71	432.60
	5 (127.00)	A9BBA-0805E-ND	7.36	59.96	441.84
	6 (152.40)	A9BBA-0806E-ND	7.52	61.22	451.08
	8 (203.20)	A9BBA-0808E-ND	7.83	63.73	469.56
10	2 (50.80)	A9BBA-1002E-ND	7.93	64.55	475.65
	3 (76.20)	A9BBA-1003E-ND	8.09	65.86	485.31
	4 (101.60)	A9BBA-1004E-ND	8.25	67.17	494.97
	5 (127.00)	A9BBA-1005E-ND	8.41	68.49	504.63
	6 (152.40)	A9BBA-1006E-ND	8.57	69.80	514.29
	8 (203.20)	A9BBA-1008E-ND	8.89	72.42	533.61
12	2 (50.80)	A9BBA-1202E-ND	8.98	73.16	539.07
	3 (76.20)	A9BBA-1203E-ND	9.16	74.56	549.36
	4 (101.60)	A9BBA-1204E-ND	9.33	75.95	559.65
	5 (127.00)	A9BBA-1205E-ND	9.50	77.35	569.94
	6 (152.40)	A9BBA-1206E-ND	9.67	78.75	580.23
	8 (203.20)	A9BBA-1208E-ND	10.01	81.54	600.81
17	2 (50.80)	A9BBA-1702E-ND	15.62	127.22	937.44
	3 (76.20)	A9BBA-1703E-ND	15.83	128.91	949.83
	4 (101.60)	A9BBA-1704E-ND	16.04	130.59	962.22
	5 (127.00)	A9BBA-1705E-ND	16.24	132.27	974.61
	6 (152.40)	A9BBA-1706E-ND	16.45	133.95	987.00
	8 (203.20)	A9BBA-1708E-ND	16.86	137.31	1011.78

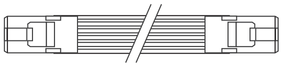
(Continued)

.050" (1.27mm) Flat Flex Cable Assemblies *(Cont.)*

Receptacle Housing to Receptacle Housing

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
20	2 (50.80)	A9BBA-2002E-ND	14.49	117.96	869.19
	3 (76.20)	A9BBA-2003E-ND	14.72	119.90	883.47
	4 (101.60)	A9BBA-2004E-ND	14.96	121.84	897.75
	5 (127.00)	A9BBA-2005E-ND	15.20	123.78	912.03
	6 (152.40)	A9BBA-2006E-ND	15.44	125.71	926.31
	8 (203.20)	A9BBA-2008E-ND	15.91	129.59	954.87
22	2 (50.80)	A9BBA-2202E-ND	15.88	129.30	952.77
	3 (76.20)	A9BBA-2203E-ND	16.14	131.41	968.31
	4 (101.60)	A9BBA-2204E-ND	16.40	133.52	983.85
	5 (127.00)	A9BBA-2205E-ND	16.66	135.63	999.39
	6 (152.40)	A9BBA-2206E-ND	16.92	137.74	1014.93
	8 (203.20)	A9BBA-2208E-ND	17.43	141.96	1046.01
25	2 (50.80)	A9BBA-2502E-ND	17.99	146.49	1079.40
	3 (76.20)	A9BBA-2503E-ND	18.29	148.94	1097.46
	4 (101.60)	A9BBA-2504E-ND	18.59	151.39	1115.52
	5 (127.00)	A9BBA-2505E-ND	18.89	153.84	1133.58
	6 (152.40)	A9BBA-2506E-ND	19.19	156.29	1151.64
	8 (203.20)	A9BBA-2508E-ND	19.80	161.20	1187.76

Receptacle Housing with Latch to Receptacle Housing with Latch



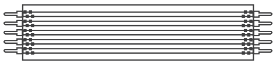
Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts. 30µ gold on mating area.

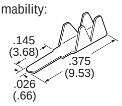
No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9CCA-0402E-ND	5.35	43.58	321.09
	3 (76.20)	A9CCA-0403E-ND	5.49	44.72	329.49
	4 (101.60)	A9CCA-0404E-ND	5.63	45.86	337.89
	5 (127.00)	A9CCA-0405E-ND	5.77	47.00	346.29
	6 (152.40)	A9CCA-0406E-ND	5.91	48.14	354.69
	8 (203.20)	A9CCA-0408E-ND	6.19	50.42	371.49
5	2 (50.80)	A9CCA-0502E-ND	5.86	47.74	351.75
	3 (76.20)	A9CCA-0503E-ND	6.01	48.91	360.36
	4 (101.60)	A9CCA-0504E-ND	6.15	50.07	368.97
	5 (127.00)	A9CCA-0505E-ND	6.29	51.24	377.58
	6 (152.40)	A9CCA-0506E-ND	6.44	52.41	386.19
	8 (203.20)	A9CCA-0508E-ND	6.72	54.75	403.41
6	2 (50.80)	A9CCA-0602E-ND	6.37	51.84	381.99
	3 (76.20)	A9CCA-0603E-ND	6.51	53.04	390.81
	4 (101.60)	A9CCA-0604E-ND	6.66	54.24	399.63
	5 (127.00)	A9CCA-0605E-ND	6.81	55.43	408.45
	6 (152.40)	A9CCA-0606E-ND	6.95	56.63	417.27
	8 (203.20)	A9CCA-0608E-ND	7.25	59.02	434.91
7	2 (50.80)	A9CCA-0702E-ND	6.88	56.00	412.65
	3 (76.20)	A9CCA-0703E-ND	7.03	57.23	421.68
	4 (101.60)	A9CCA-0704E-ND	7.18	58.45	430.71
	5 (127.00)	A9CCA-0705E-ND	7.33	59.68	439.74
	6 (152.40)	A9CCA-0706E-ND	7.48	60.90	448.77
	8 (203.20)	A9CCA-0708E-ND	7.78	63.36	466.83
8	2 (50.80)	A9CCA-0802E-ND	7.39	60.14	443.10
	3 (76.20)	A9CCA-0803E-ND	7.54	61.39	452.34
	4 (101.60)	A9CCA-0804E-ND	7.69	62.64	461.58
	5 (127.00)	A9CCA-0805E-ND	7.85	63.90	470.82
	6 (152.40)	A9CCA-0806E-ND	8.00	65.15	480.06
	8 (203.20)	A9CCA-0808E-ND	8.31	67.66	498.54
10	2 (50.80)	A9CCA-1002E-ND	8.44	68.69	506.10
	3 (76.20)	A9CCA-1003E-ND	8.60	70.00	515.76
	4 (101.60)	A9CCA-1004E-ND	8.76	71.31	525.42
	5 (127.00)	A9CCA-1005E-ND	8.92	72.62	535.08
	6 (152.40)	A9CCA-1006E-ND	9.08	73.93	544.74
	8 (203.20)	A9CCA-1008E-ND	9.40	76.55	564.06
12	2 (50.80)	A9CCA-1202E-ND	9.52	77.55	571.41
	3 (76.20)	A9CCA-1203E-ND	9.70	78.95	581.70
	4 (101.60)	A9CCA-1204E-ND	9.87	80.34	591.99
	5 (127.00)	A9CCA-1205E-ND	10.04	81.74	602.28
	6 (152.40)	A9CCA-1206E-ND	10.21	83.13	612.57
	8 (203.20)	A9CCA-1208E-ND	10.55	85.93	633.15
17	2 (50.80)	A9CCA-1702E-ND	13.12	106.82	787.08
	3 (76.20)	A9CCA-1703E-ND	13.32	108.50	799.47
	4 (101.60)	A9CCA-1704E-ND	13.53	110.18	811.86
	5 (127.00)	A9CCA-1705E-ND	13.74	111.86	824.25
	6 (152.40)	A9CCA-1706E-ND	13.94	113.54	836.64
	8 (203.20)	A9CCA-1708E-ND	14.36	116.91	861.42
20	2 (50.80)	A9CCA-2002E-ND	15.32	124.77	919.38
	3 (76.20)	A9CCA-2003E-ND	15.56	126.71	933.66
	4 (101.60)	A9CCA-2004E-ND	15.80	128.65	947.94
	5 (127.00)	A9CCA-2005E-ND	16.04	130.59	962.22
	6 (152.40)	A9CCA-2006E-ND	16.28	132.53	976.50
	8 (203.20)	A9CCA-2008E-ND	16.75	136.40	1005.06
22	2 (50.80)	A9CCA-2202E-ND	16.79	136.74	1007.58
	3 (76.20)	A9CCA-2203E-ND	17.05	138.85	1023.12
	4 (101.60)	A9CCA-2204E-ND	17.31	140.96	1038.66
	5 (127.00)	A9CCA-2205E-ND	17.57	143.07	1054.20
	6 (152.40)	A9CCA-2206E-ND	17.83	145.18	1069.74
	8 (203.20)	A9CCA-2208E-ND	18.35	149.40	1100.82
25	2 (50.80)	A9CCA-2502E-ND	19.02	154.87	1141.14
	3 (76.20)	A9CCA-2503E-ND	19.32	157.32	1159.20
	4 (101.60)	A9CCA-2504E-ND	19.62	159.77	1177.26
	5 (127.00)	A9CCA-2505E-ND	19.92	162.22	1195.32
	6 (152.40)	A9CCA-2506E-ND	20.22	164.67	1213.38
	8 (203.20)	A9CCA-2508E-ND	20.83	169.58	1249.50

.100" (2.54mm) Flat Flex Cable Assemblies

.100 (2.54mm) Flat Flex Cable Material: • Conductors: Un-plated copper per QQ-C-502 • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 2 amperes (28AWG equivalent) • Voltage Rating: 300 volts • Temperature Rating: -20°C to +105°C • Insulation Resistance: 5000 megohms (min.) • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1

Solder Tab to Solder Tab



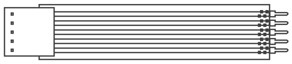


Solder Tab pin

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9AAT-0202F-ND	.64	5.22	38.43
	3 (76.20)	A9AAT-0203F-ND	.76	6.16	45.36
	4 (101.60)	A9AAT-0204F-ND	.87	7.10	52.29
	5 (127.00)	A9AAT-0205F-ND	.99	8.04	59.22
	6 (152.40)	A9AAT-0206F-ND	1.10	8.98	66.15
	8 (203.20)	A9AAT-0208F-ND	1.33	10.83	79.80
3	2 (50.80)	A9AAT-0302F-ND	.83	6.75	49.77
	3 (76.20)	A9AAT-0303F-ND	.95	7.72	56.91
	4 (101.60)	A9AAT-0304F-ND	1.07	8.72	64.26
	5 (127.00)	A9AAT-0305F-ND	1.19	9.72	71.61
	6 (152.40)	A9AAT-0306F-ND	1.31	10.69	78.75
	8 (203.20)	A9AAT-0308F-ND	1.56	12.68	93.45
4	2 (50.80)	A9AAT-0402F-ND	.99	8.09	59.64
	3 (76.20)	A9AAT-0403F-ND	1.12	9.12	67.20
	4 (101.60)	A9AAT-0404F-ND	1.25	10.15	74.76
	5 (127.00)	A9AAT-0405F-ND	1.37	11.17	82.32
	6 (152.40)	A9AAT-0406F-ND	1.50	12.20	89.88
	8 (203.20)	A9AAT-0408F-ND	1.75	14.25	105.00
5	2 (50.80)	A9AAT-0502F-ND	1.14	9.32	68.67
	3 (76.20)	A9AAT-0503F-ND	1.27	10.37	76.44
	4 (101.60)	A9AAT-0504F-ND	1.40	11.43	84.21
	5 (127.00)	A9AAT-0505F-ND	1.54	12.51	92.19
	6 (152.40)	A9AAT-0506F-ND	1.67	13.57	99.96
	8 (203.20)	A9AAT-0508F-ND	1.93	15.70	115.71
6	2 (50.80)	A9AAT-0602F-ND	1.30	10.57	77.91
	3 (76.20)	A9AAT-0603F-ND	1.45	11.77	86.73
	4 (101.60)	A9AAT-0604F-ND	1.59	12.94	95.34
	5 (127.00)	A9AAT-0605F-ND	1.74	14.14	104.16
	6 (152.40)	A9AAT-0606F-ND	1.88	15.33	112.98
	8 (203.20)	A9AAT-0608F-ND	2.18	17.73	130.62
8	2 (50.80)	A9AAT-0802F-ND	1.63	13.28	97.86
	3 (76.20)	A9AAT-0803F-ND	1.81	14.76	108.78
	4 (101.60)	A9AAT-0804F-ND	1.99	16.22	119.49
	5 (127.00)	A9AAT-0805F-ND	2.17	17.67	130.20
	6 (152.40)	A9AAT-0806F-ND	2.35	19.12	140.91
	8 (203.20)	A9AAT-0808F-ND	2.71	22.06	162.54
9	2 (50.80)	A9AAT-0902F-ND	1.81	14.71	108.36
	3 (76.20)	A9AAT-0903F-ND	2.03	16.53	121.80
	4 (101.60)	A9AAT-0904F-ND	2.25	18.35	135.24
	5 (127.00)	A9AAT-0905F-ND	2.48	20.18	148.68
	6 (152.40)	A9AAT-0906F-ND	2.70	22.00	162.12
	8 (203.20)	A9AAT-0908F-ND	3.15	25.65	189.00
10	2 (50.80)	A9AAT-1002F-ND	1.89	15.42	113.61
	3 (76.20)	A9AAT-1003F-ND	2.12	17.27	127.26
	4 (101.60)	A9AAT-1004F-ND	2.35	19.12	140.91
	5 (127.00)	A9AAT-1005F-ND	2.58	20.98	154.56
	6 (152.40)	A9AAT-1006F-ND	2.81	22.86	168.42
	8 (203.20)	A9AAT-1008F-ND	3.26	26.56	195.72
11	2 (50.80)	A9AAT-1102F-ND	1.97	16.07	118.44
	3 (76.20)	A9AAT-1103F-ND	2.21	17.98	132.51
	4 (101.60)	A9AAT-1104F-ND	2.44	19.86	146.37
	5 (127.00)	A9AAT-1105F-ND	2.67	21.77	160.44
	6 (152.40)	A9AAT-1106F-ND	2.91	23.66	174.30
	8 (203.20)	A9AAT-1108F-ND	3.37	27.47	202.44
12	2 (50.80)	A9AAT-1202F-ND	2.27	18.50	136.29
	3 (76.20)	A9AAT-1203F-ND	2.59	21.06	155.19
	4 (101.60)	A9AAT-1204F-ND	2.90	23.60	173.88
	5 (127.00)	A9AAT-1205F-ND	3.21	26.16	192.78
	6 (152.40)	A9AAT-1206F-ND	3.52	28.70	211.47
	8 (203.20)	A9AAT-1208F-ND	4.15	33.80	249.06
13	2 (50.80)	A9AAT-1302F-ND	2.42	19.69	145.11
	3 (76.20)	A9AAT-1303F-ND	2.74	22.29	164.22
	4 (101.60)	A9AAT-1304F-ND	3.06	24.88	183.33
	5 (127.00)	A9AAT-1305F-ND	3.37	27.47	202.44
	6 (152.40)	A9AAT-1306F-ND	3.69	30.04	221.34
	8 (203.20)	A9AAT-1308F-ND	4.33	35.23	259.56
14	2 (50.80)	A9AAT-1402F-ND	2.57	20.89	153.93
	3 (76.20)	A9AAT-1403F-ND	2.89	23.51	173.25
	4 (101.60)	A9AAT-1404F-ND	3.21	26.13	192.57
	5 (127.00)	A9AAT-1405F-ND	3.53	28.76	211.89
	6 (152.40)	A9AAT-1406F-ND	3.86	31.41	231.42
	8 (203.20)	A9AAT-1408F-ND	4.50	36.65	270.06
15	2 (50.80)	A9AAT-1502F-ND	2.72	22.12	162.96
	3 (76.20)	A9AAT-1503F-ND	3.05	24.80	182.70
	4 (101.60)	A9AAT-1504F-ND	3.37	27.47	202.44
	5 (127.00)	A9AAT-1505F-ND	3.70	30.15	222.18
	6 (152.40)	A9AAT-1506F-ND	4.03	32.83	241.92
	8 (203.20)	A9AAT-1508F-ND	4.69	38.19	281.40
16	2 (50.80)	A9AAT-1602F-ND	2.86	23.28	171.57
	3 (76.20)	A9AAT-1603F-ND	3.20	26.02	191.73
	4 (101.60)	A9AAT-1604F-ND	3.53	28.73	211.68
	5 (127.00)	A9AAT-1605F-ND	3.86	31.46	231.84
	6 (152.40)	A9AAT-1606F-ND	4.20	34.17	251.79
	8 (203.20)	A9AAT-1608F-ND	4.87	39.62	291.90
18	2 (50.80)	A9AAT-1802F-ND	3.60	29.33	216.09
	3 (76.20)	A9AAT-1803F-ND	4.17	33.94	250.11
	4 (101.60)	A9AAT-1804F-ND	4.74	38.56	284.13
	5 (127.00)	A9AAT-1805F-ND	5.30	43.18	318.15
	6 (152.40)	A9AAT-1806F-ND	5.87	47.77	351.96
	8 (203.20)	A9AAT-1808F-ND	7.00	57.00	420.00
20	2 (50.80)	A9AAT-2002F-ND	3.90	31.75	233.94
	3 (76.20)	A9AAT-2003F-ND	4.48	36.45	268.59
	4 (101.60)	A9AAT-2004F-ND	5.05	41.15	303.24
	5 (127.00)	A9AAT-2005F-ND	5.63	45.86	337.89
	6 (152.40)	A9AAT-2006F-ND	6.21	50.56	372.54
	8 (203.20)	A9AAT-2008F-ND	7.37	59.99	442.05

Receptacle Housing to Solder Tab

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.



Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated A9BAG – □□□□F-ND 15µ gold or 30µ gold on mating area. A9BAA – □□□□F-ND = 30µ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9BAG-0202F-ND	1.94	15.76	116.13
	3 (76.20)	A9BAG-0203F-ND	2.05	16.70	123.06
	4 (101.60)	A9BAG-0204F-ND	2.17	17.64	129.99
	5 (127.00)	A9BAG-0205F-ND	2.28	18.55	136.71
	6 (152.40)	A9BAG-0206F-ND	2.39	19.49	143.64
	8 (203.20)	A9BAG-0208F-ND	2.63	21.38	157.50
3	2 (50.80)	A9BAG-0302F-ND	2.23	18.15	133.77
	3 (76.20)	A9BAG-0303F-ND	2.35	19.15	141.12
	4 (101.60)	A9BAG-0304F-ND	2.47	20.12	148.26
	5 (127.00)	A9BAG-0305F-ND	2.59	21.12	155.61
	6 (152.40)	A9BAG-0306F-ND	2.71	22.09	162.75
	8 (203.20)	A9BAG-0308F-ND	2.96	24.08	177.45
4	2 (50.80)	A9BAG-0402F-ND	2.52	20.49	150.99
	3 (76.20)	A9BAG-0403F-ND	2.64	21.52	158.55
	4 (101.60)	A9BAG-0404F-ND	2.77	22.54	166.11
	5 (127.00)	A9BAG-0405F-ND	2.89	23.57	173.67
	6 (152.40)	A9BAG-0406F-ND	3.02	24.60	181.23
	8 (203.20)	A9BAG-0408F-ND	3.27	26.65	196.35
5	2 (50.80)	A9BAG-0502F-ND	2.79	22.69	167.16
	3 (76.20)	A9BAG-0503F-ND	2.92	23.74	174.93
	4 (101.60)	A9BAG-0504F-ND	3.05	24.82	182.91
	5 (127.00)	A9BAG-0505F-ND	3.18	25.88	190.68
	6 (152.40)	A9BAG-0506F-ND	3.31	26.93	198.45
	8 (203.20)	A9BAG-0508F-ND	3.57	29.07	214.20
6	2 (50.80)	A9BAG-0602F-ND	3.07	25.02	184.38
	3 (76.20)	A9BAG-0603F-ND	3.22	26.19	192.99
	4 (101.60)	A9BAG-0604F-ND	3.36	27.39	201.81
	5 (127.00)	A9BAG-0605F-ND	3.51	28.59	210.63
	6 (152.40)	A9BAG-0606F-ND	3.66	29.78	219.45
	8 (203.20)	A9BAG-0608F-ND	3.95	32.18	237.09
8	2 (50.80)	A9BAG-0802F-ND	3.66	29.81	219.66
	3 (76.20)	A9BAG-0803F-ND	3.84	31.26	230.37
	4 (101.60)	A9BAG-0804F-ND	4.02	32.75	241.29
	5 (127.00)	A9BAG-0805F-ND	4.20	34.20	252.00
	6 (152.40)	A9BAG-0806F-ND	4.38	35.65	262.71
	8 (203.20)	A9BAG-0808F-ND	4.74	38.59	284.34
9	2 (50.80)	A9BAG-0902F-ND	4.00	32.58	240.03
	3 (76.20)	A9BAG-0903F-ND	4.22	34.40	253.47
	4 (101.60)	A9BAG-0904F-ND	4.45	36.22	266.91
	5 (127.00)	A9BAG-0905F-ND	4.67	38.05	280.35
	6 (152.40)	A9BAG-0906F-ND	4.89	39.84	293.58
	8 (203.20)	A9BAG-0908F-ND	5.34	43.49	320.46
10	2 (50.80)	A9BAG-1002F-ND	4.24	34.54	254.52
	3 (76.20)	A9BAG-1003F-ND	4.47	36.39	268.17
	4 (101.60)	A9BAG-1004F-ND	4.70	38.25	281.82
	5 (127.00)	A9BAG-1005F-ND	4.92	40.10	295.47
	6 (152.40)	A9BAG-1006F-ND	5.16	41.98	309.33
	8 (203.20)	A9BAG-1008F-ND	5.61	45.69	336.63
11	2 (50.80)	A9BAG-1102F-ND	4.48	36.48	268.80
	3 (76.20)	A9BAG-1103F-ND	4.71	38.39	282.87
	4 (101.60)	A9BAG-1104F-ND	4.95	40.30	296.94
	5 (127.00)	A9BAG-1105F-ND	5.18	42.18	310.80
	6 (152.40)	A9BAG-1106F-ND	5.41	44.09	324.87
	8 (203.20)	A9BAG-1108F-ND	5.88	47.88	352.80
12	2 (50.80)	A9BAG-1202F-ND	4.93	40.13	295.68
	3 (76.20)	A9BAG-1203F-ND	5.24	42.66	314.37
	4 (101.60)	A9BAG-1204F-ND	5.55	45.23	333.27
	5 (127.00)	A9BAG-1205F-ND	5.87	47.77	351.96
	6 (152.40)	A9BAG-1206F-ND	6.18	50.33	370.86
	8 (203.20)	A9BAG-1208F-ND	6.81	55.43	408.45
13	2 (50.80)	A9BAG-1302F-ND	5.20	42.35	312.06
	3 (76.20)	A9BAG-1303F-ND	5.52	44.94	331.17
	4 (101.60)	A9BAG-1304F-ND	5.84	47.54	350.28
	5 (127.00)	A9BAG-1305F-ND	6.16	50.13	369.39
	6 (152.40)	A9BAG-1306F-ND	6.48	52.73	388.50
	8 (203.20)	A9BAG-1308F-ND	7.11	57.91	426.72
14	2 (50.80)	A9BAG-1402F-ND	5.47	44.57	328.44
	3 (76.20)	A9BAG-1403F-ND	5.80	47.20	347.76
	4 (101.60)	A9BAG-1404F-ND	6.12	49.85	367.29
	5 (127.00)	A9BAG-1405F-ND	6.44	52.47	386.61
	6 (152.40)	A9BAG-1406F-ND	6.77	55.09	405.93
	8 (203.20)	A9BAG-1408F-ND	7.41	60.36	444.78
15	2 (50.80)	A9BAG-1502F-ND	5.96	48.56	357.84
	3 (76.20)	A9BAG-1503F-ND	6.29	51.24	377.58
	4 (101.60)	A9BAG-1504F-ND	6.62	53.92	397.32
	5 (127.00)	A9BAG-1505F-ND	6.95	56.60	417.06
	6 (152.40)	A9BAG-1506F-ND	7.28	59.28	436.80
	8 (203.20)	A9BAG-1508F-ND	7.94	64.64	476.28
16	2 (50.80)	A9BAG-1602F-ND	6.31	51.39	378.63
	3 (76.20)	A9BAG-1603F-ND	6.65	54.12	398.79
	4 (101.60)	A9BAG-1604F-ND	6.98	56.83	418.74
	5 (127.00)	A9BAG-1605F-ND	7.32	59.57	438.90
	6 (152.40)	A9BAG-1606F-ND	7.65	62.27	458.85
	8 (203.20)	A9BAG-1608F-ND	8.32	67.72	498.96
18	2 (50.80)	A9BAG-1802F-ND	7.46	60.73	447.51
	3 (76.20)	A9BAG-1803F-ND	8.03	65.35	481.53
	4 (101.60)	A9BAG-1804F-ND	8.59	69.97	515.55
	5 (127.00)	A9BAG-1805F-ND	9.16	74.58	549.57
	6 (152.40)	A9BAG-1806F-ND	9.72	79.17	583.38
	8 (203.20)	A9BAG-1808F-ND	10.86	88.41	651.42
20	2 (50.80)	A9BAG-2002F-ND	8.16	66.43	489.51
	3 (76.20)	A9BAG-2003F-ND	8.74	71.16	524.37
	4 (101.60)	A9BAG-2004F-ND	9.32	75.87	559.02
	5 (127.00)	A9BAG-2005F-ND	9.89	80.57	593.67
	6 (152.40)	A9BAG-2006F-ND	10.47	85.27	628.32
	8 (203.20)	A9BAG-2008F-ND	11.63	94.71	697.83

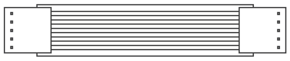
Also available in 30µ Gold, A9BAA – □□□□F-ND
Call for complete part number and pricing.

(Continued)

.100” (2.54mm) Flat Flex Cable Assemblies *(Cont.)*

Receptacle Housing to Receptacle Housing

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.

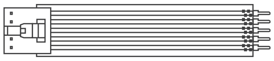


Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.
A9BBG – □□□□F-ND = 15µ gold, A9BBA – □□□□F-ND = 30µ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9BBG-0202F-ND	3.23	26.31	193.83
	3 (76.20)	A9BBG-0203F-ND	3.35	27.25	200.76
	4 (101.60)	A9BBG-0204F-ND	3.46	28.16	207.48
	5 (127.00)	A9BBG-0205F-ND	3.57	29.10	214.41
	6 (152.40)	A9BBG-0206F-ND	3.69	30.04	221.34
	8 (203.20)	A9BBG-0208F-ND	3.92	31.92	235.20
3	2 (50.80)	A9BBG-0302F-ND	3.63	29.55	217.77
	3 (76.20)	A9BBG-0303F-ND	3.75	30.55	225.12
	4 (101.60)	A9BBG-0304F-ND	3.87	31.52	232.26
	5 (127.00)	A9BBG-0305F-ND	3.99	32.52	239.61
	6 (152.40)	A9BBG-0306F-ND	4.12	33.52	246.96
	8 (203.20)	A9BBG-0308F-ND	4.36	35.48	261.45
4	2 (50.80)	A9BBG-0402F-ND	4.04	32.86	242.13
	3 (76.20)	A9BBG-0403F-ND	4.16	33.89	249.69
	4 (101.60)	A9BBG-0404F-ND	4.29	34.91	257.25
	5 (127.00)	A9BBG-0405F-ND	4.41	35.94	264.81
	6 (152.40)	A9BBG-0406F-ND	4.54	36.96	272.37
	8 (203.20)	A9BBG-0408F-ND	4.79	39.02	287.49
5	2 (50.80)	A9BBG-0502F-ND	4.43	36.08	265.86
	3 (76.20)	A9BBG-0503F-ND	4.56	37.14	273.63
	4 (101.60)	A9BBG-0504F-ND	4.69	38.19	281.40
	5 (127.00)	A9BBG-0505F-ND	4.82	39.27	289.38
	6 (152.40)	A9BBG-0506F-ND	4.95	40.33	297.15
	8 (203.20)	A9BBG-0508F-ND	5.22	42.47	312.90
6	2 (50.80)	A9BBG-0602F-ND	4.84	39.44	290.64
	3 (76.20)	A9BBG-0603F-ND	4.99	40.64	299.46
	4 (101.60)	A9BBG-0604F-ND	5.14	41.84	308.28
	5 (127.00)	A9BBG-0605F-ND	5.29	43.04	317.10
	6 (152.40)	A9BBG-0606F-ND	5.43	44.23	325.92
	8 (203.20)	A9BBG-0608F-ND	5.73	46.63	343.56
8	2 (50.80)	A9BBG-0802F-ND	5.69	46.34	341.46
	3 (76.20)	A9BBG-0803F-ND	5.87	47.79	352.17
	4 (101.60)	A9BBG-0804F-ND	6.05	49.25	362.88
	5 (127.00)	A9BBG-0805F-ND	6.23	50.73	373.80
	6 (152.40)	A9BBG-0806F-ND	6.41	52.18	384.51
	8 (203.20)	A9BBG-0808F-ND	6.77	55.12	406.14
9	2 (50.80)	A9BBG-0902F-ND	6.19	50.42	371.49
	3 (76.20)	A9BBG-0903F-ND	6.42	52.24	384.93
	4 (101.60)	A9BBG-0904F-ND	6.64	54.06	398.37
	5 (127.00)	A9BBG-0905F-ND	6.86	55.89	411.81
	6 (152.40)	A9BBG-0906F-ND	7.09	57.71	425.25
	8 (203.20)	A9BBG-0908F-ND	7.54	61.36	452.13
10	2 (50.80)	A9BBG-1002F-ND	6.59	53.67	395.43
	3 (76.20)	A9BBG-1003F-ND	6.82	55.52	409.08
	4 (101.60)	A9BBG-1004F-ND	7.05	57.37	422.73
	5 (127.00)	A9BBG-1005F-ND	7.27	59.22	436.38
	6 (152.40)	A9BBG-1006F-ND	7.50	61.10	450.24
	8 (203.20)	A9BBG-1008F-ND	7.96	64.81	477.54
11	2 (50.80)	A9BBG-1102F-ND	6.99	56.91	419.37
	3 (76.20)	A9BBG-1103F-ND	7.22	58.80	433.23
	4 (101.60)	A9BBG-1104F-ND	7.46	60.71	447.30
	5 (127.00)	A9BBG-1105F-ND	7.69	62.61	461.37
	6 (152.40)	A9BBG-1106F-ND	7.92	64.50	475.23
	8 (203.20)	A9BBG-1108F-ND	8.39	68.29	503.16
12	2 (50.80)	A9BBG-1202F-ND	7.58	61.73	454.86
	3 (76.20)	A9BBG-1203F-ND	7.90	64.30	473.76
	4 (101.60)	A9BBG-1204F-ND	8.21	66.86	492.66
	5 (127.00)	A9BBG-1205F-ND	8.52	69.40	511.35
	6 (152.40)	A9BBG-1206F-ND	8.84	71.96	530.25
	8 (203.20)	A9BBG-1208F-ND	9.46	77.06	567.84
13	2 (50.80)	A9BBG-1302F-ND	7.99	65.04	479.22
	3 (76.20)	A9BBG-1303F-ND	8.31	67.63	498.33
	4 (101.60)	A9BBG-1304F-ND	8.62	70.22	517.44
	5 (127.00)	A9BBG-1305F-ND	8.94	72.82	536.55
	6 (152.40)	A9BBG-1306F-ND	9.26	75.41	555.66
	8 (203.20)	A9BBG-1308F-ND	9.89	80.57	593.67
14	2 (50.80)	A9BBG-1402F-ND	8.39	68.29	503.16
	3 (76.20)	A9BBG-1403F-ND	8.71	70.91	522.48
	4 (101.60)	A9BBG-1404F-ND	9.03	73.53	541.80
	5 (127.00)	A9BBG-1405F-ND	9.35	76.15	561.12
	6 (152.40)	A9BBG-1406F-ND	9.68	78.80	580.65
	8 (203.20)	A9BBG-1408F-ND	10.32	84.05	619.29
15	2 (50.80)	A9BBG-1502F-ND	9.21	75.01	552.72
	3 (76.20)	A9BBG-1503F-ND	9.54	77.69	572.46
	4 (101.60)	A9BBG-1504F-ND	9.87	80.37	592.20
	5 (127.00)	A9BBG-1505F-ND	10.20	83.05	611.94
	6 (152.40)	A9BBG-1506F-ND	10.53	85.73	631.68
	8 (203.20)	A9BBG-1508F-ND	11.19	91.09	671.16
16	2 (50.80)	A9BBG-1602F-ND	9.77	79.52	585.90
	3 (76.20)	A9BBG-1603F-ND	10.10	82.22	605.85
	4 (101.60)	A9BBG-1604F-ND	10.43	84.93	625.80
	5 (127.00)	A9BBG-1605F-ND	10.77	87.67	645.96
	6 (152.40)	A9BBG-1606F-ND	11.10	90.37	665.91
	8 (203.20)	A9BBG-1608F-ND	11.77	95.82	706.02
18	2 (50.80)	A9BBG-1802F-ND	11.32	92.14	678.93
	3 (76.20)	A9BBG-1803F-ND	11.88	96.76	712.95
	4 (101.60)	A9BBG-1804F-ND	12.45	101.37	746.97
	5 (127.00)	A9BBG-1805F-ND	13.02	105.99	780.99
	6 (152.40)	A9BBG-1806F-ND	13.58	110.58	814.80
	8 (203.20)	A9BBG-1808F-ND	14.71	119.81	882.84
20	2 (50.80)	A9BBG-2002F-ND	12.42	101.15	745.29
	3 (76.20)	A9BBG-2003F-ND	13.00	105.85	779.94
	4 (101.60)	A9BBG-2004F-ND	13.58	110.58	814.80
	5 (127.00)	A9BBG-2005F-ND	14.16	115.28	849.45
	6 (152.40)	A9BBG-2006F-ND	14.74	119.99	884.10
	8 (203.20)	A9BBG-2008F-ND	15.89	129.39	953.40

Also available in 30µ Gold, A9BBA – □□□□F-ND
Call for complete part number and pricing.

Receptacle Housing with Latch to Solder Tab

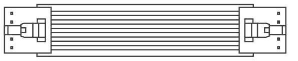


Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.
A9CAG – □□□□F-ND = 15µ gold, A9CAA – □□□□F-ND = 30µ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9CAG-0202F-ND	2.11	17.19	126.63
	3 (76.20)	A9CAG-0203F-ND	2.23	18.13	133.56
	4 (101.60)	A9CAG-0204F-ND	2.34	19.07	140.49
	5 (127.00)	A9CAG-0205F-ND	2.46	20.01	147.42
	6 (152.40)	A9CAG-0206F-ND	2.57	20.92	154.14
	8 (203.20)	A9CAG-0208F-ND	2.80	22.80	168.00
3	2 (50.80)	A9CAG-0302F-ND	2.41	19.61	144.48
	3 (76.20)	A9CAG-0303F-ND	2.53	20.61	151.83
	4 (101.60)	A9CAG-0304F-ND	2.65	21.60	159.18
	5 (127.00)	A9CAG-0305F-ND	2.77	22.57	166.32
	6 (152.40)	A9CAG-0306F-ND	2.89	23.57	173.67
	8 (203.20)	A9CAG-0308F-ND	3.14	25.54	188.16
4	2 (50.80)	A9CAG-0402F-ND	2.70	21.95	161.70
	3 (76.20)	A9CAG-0403F-ND	2.82	22.97	169.26
	4 (101.60)	A9CAG-0404F-ND	2.95	24.00	176.82
	5 (127.00)	A9CAG-0405F-ND	3.07	25.02	184.38
	6 (152.40)	A9CAG-0406F-ND	3.20	26.05	191.94
	8 (203.20)	A9CAG-0408F-ND	3.45	28.10	207.06
5	2 (50.80)	A9CAG-0502F-ND	2.98	24.23	178.50
	3 (76.20)	A9CAG-0503F-ND	3.10	25.28	186.27
	4 (101.60)	A9CAG-0504F-ND	3.24	26.36	194.25
	5 (127.00)	A9CAG-0505F-ND	3.37	27.42	202.02
	6 (152.40)	A9CAG-0506F-ND	3.50	28.47	209.79
	8 (203.20)	A9CAG-0508F-ND	3.76	30.61	225.54
6	2 (50.80)	A9CAG-0602F-ND	3.27	26.59	195.93
	3 (76.20)	A9CAG-0603F-ND	3.41	27.79	204.75
	4 (101.60)	A9CAG-0604F-ND	3.56	28.96	213.36
	5 (127.00)	A9CAG-0605F-ND	3.70	30.15	222.18
	6 (152.40)	A9CAG-0606F-ND	3.85	31.35	231.00
	8 (203.20)	A9CAG-0608F-ND	4.14	33.74	248.64
8	2 (50.80)	A9CAG-0802F-ND	3.86	31.46	231.84
	3 (76.20)	A9CAG-0803F-ND	4.04	32.92	242.55
	4 (101.60)	A9CAG-0804F-ND	4.22	34.37	253.26
	5 (127.00)	A9CAG-0805F-ND	4.40	35.82	263.97
	6 (152.40)	A9CAG-0806F-ND	4.58	37.31	274.89
	8 (203.20)	A9CAG-0808F-ND	4.94	40.21	296.31
9	2 (50.80)	A9CAG-0902F-ND	4.21	34.26	252.42
	3 (76.20)	A9CAG-0903F-ND	4.43	36.08	265.86
	4 (101.60)	A9CAG-0904F-ND	4.66	37.91	279.30
	5 (127.00)	A9CAG-0905F-ND	4.88	39.73	292.74
	6 (152.40)	A9CAG-0906F-ND	5.10	41.55	306.18
	8 (203.20)	A9CAG-0908F-ND	5.55	45.20	333.06
10	2 (50.80)	A9CAG-1002F-ND	4.45	36.25	267.12
	3 (76.20)	A9CAG-1003F-ND	4.68	38.13	280.98
	4 (101.60)	A9CAG-1004F-ND	4.91	39.99	294.63
	5 (127.00)	A9CAG-1005F-ND	5.14	41.84	308.28
	6 (152.40)	A9CAG-1006F-ND	5.37	43.69	321.93
	8 (203.20)	A9CAG-1008F-ND	5.82	47.42	349.44
11	2 (50.80)	A9CAG-1102F-ND	4.70	38.25	281.82
	3 (76.20)	A9CAG-1103F-ND	4.93	40.16	295.89
	4 (101.60)	A9CAG-1104F-ND	5.16	42.04	309.75
	5 (127.00)	A9CAG-1105F-ND	5.40	43.95	323.82
	6 (152.40)	A9CAG-1106F-ND	5.63	45.86	337.89
	8 (203.20)	A9CAG-1108F-ND	6.10	49.65	365.82
12	2 (50.80)	A9CAG-1202F-ND	5.15	41.95	309.12
	3 (76.20)	A9CAG-1203F-ND	5.46	44.49	327.81
	4 (101.60)	A9CAG-1204F-ND	5.78	47.05	346.71
	5 (127.00)	A9CAG-1205F-ND	6.09	49.59	365.40
	6 (152.40)	A9CAG-1206F-ND	6.41	52.16	384.30
	8 (203.20)	A9CAG-1208F-ND	7.03	57.26	421.89
13	2 (50.80)	A9CAG-1302F-ND	5.43	44.23	325.92
	3 (76.20)	A9CAG-1303F-ND	5.75	46.83	345.03
	4 (101.60)	A9CAG-1304F-ND	6.07	49.42	364.14
	5 (127.00)	A9CAG-1305F-ND	6.39	52.01	383.25
	6 (152.40)	A9CAG-1306F-ND	6.70	54.58	402.15
	8 (203.20)	A9CAG-1308F-ND	7.34	59.76	440.37
14	2 (50.80)	A9CAG-1402F-ND	5.71	46.48	342.51
	3 (76.20)	A9CAG-1403F-ND	6.03	49.11	361.83
	4 (101.60)	A9CAG-1404F-ND	6.35	51.73	381.15
	5 (127.00)	A9CAG-1405F-ND	6.68	54.38	400.68
	6 (152.40)	A9CAG-1406F-ND	7.00	57.00	420.00
	8 (203.20)	A9CAG-1408F-ND	7.64	62.24	458.64
15	2 (50.80)	A9CAG-1502F-ND	6.23	50.76	374.01
	3 (76.20)	A9CAG-1503F-ND	6.56	53.44	393.75
	4 (101.60)	A9CAG-1504F-ND	6.89	56.12	413.49
	5 (127.00)	A9CAG-1505F-ND	7.22	58.80	433.23
	6 (152.40)	A9CAG-1506F-ND	7.55	61.47	452.97
	8 (203.20)	A9CAG-1508F-ND	8.21	66.83	492.45
16	2 (50.80)	A9CAG-1602F-ND	6.60	53.72	395.85
	3 (76.20)	A9CAG-1603F-ND	6.93	56.43	415.80
	4 (101.60)	A9CAG-1604F-ND	7.27	59.17	435.96
	5 (127.00)	A9CAG-1605F-ND	7.60	61.87	455.91
	6 (152.40)	A9CAG-1606F-ND	7.93	64.61	476.07
	8 (203.20)	A9CAG-1608F-ND	8.60	70.02	515.97
18	2 (50.80)	A9CAG-1802F-ND	7.77	63.30	466.41
	3 (76.20)	A9CAG-1803F-ND	8.34	67.92	500.43
	4 (101.60)	A9CAG-1804F-ND	8.91	72.53	534.45
	5 (127.00)	A9CAG-1805F-ND	9.47	77.15	568.47
	6 (152.40)	A9CAG-1806F-ND	10.04	81.77	602.49
	8 (203.20)	A9CAG-1808F-ND	11.18	91.00	670.53
20	2 (50.80)	A9CAG-2002F-ND	8.51	69.28	510.51
	3 (76.20)	A9CAG-2003F-ND	9.09	73.99	545.16
	4 (101.60)	A9CAG-2004F-ND	9.67	78.72	580.02
	5 (127.00)	A9CAG-2005F-ND	10.24	83.42	614.67
	6 (152.40)	A9CAG-2006F-ND	10.82	88.12	649.32
	8 (203.20)	A9CAG-2008F-ND	11.98	97.53	718.62

Also available in 30µ Gold, A9CAA – □□□□F-ND
Call for complete part number and pricing.

Receptacle Housing with Latch to Receptacle Housing with Latch



Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.
A9CCG – □□□□F-ND = 15µ gold,
A9CCA – □□□□F-ND = 30µ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9CCG-0202F-ND	3.58	29.16	214.83
	3 (76.20)	A9CCG-0203F-ND	3.70	30.10	221.76
	4 (101.60)	A9CCG-0204F-ND	3.81	31.04	228.69
	5 (127.00)	A9CCG-0205F-ND	3.92	31.95	235.41
	6 (152.40)	A9CCG-0206F-ND	4.04	32.89	242.34
	8 (203.20)	A9CCG-0208F-ND	4.27	34.77	256.20
3	2 (50.80)	A9CCG-0302F-ND	3.99	32.49	239.40
	3 (76.20)	A9CCG-0303F-ND	4.11	33.46	246.54
	4 (101.60)	A9CCG-0304F-ND	4.23	34.46	253.89
	5 (127.00)	A9CCG-0305F-ND	4.35	35.45	261.24
	6 (152.40)	A9CCG-0306F-ND	4.47	36.42	268.38
	8 (203.20)	A9CCG-0308F-ND	4.72	38.42	283.08
4	2 (50.80)	A9CCG-0402F-ND	4.40	35.80	263.76
	3 (76.20)	A9CCG-0403F-ND	4.52	36.82	271.32
	4 (101.60)	A9CCG-0404F-ND	4.65	37.85	278.88
	5 (127.00)	A9CCG-0405F-ND	4.77	38.87	286.44
	6 (152.40)	A9CCG-0406F-ND	4.90	39.90	294.00
	8 (203.20)	A9CCG-0408F-ND	5.15	41.95	309.12
5	2 (50.80)	A9CCG-0502F-ND	4.81	39.13	288.33
	3 (76.20)	A9CCG-0503F-ND	4.94	40.21	296.31
	4 (101.60)	A9CCG-0504F-ND	5.07	41.27	304.08
	5 (127.00)	A9CCG-0505F-ND	5.20	42.35	312.06
	6 (152.40)	A9CCG-0506F-ND	5.33	43.41	319.83
	8 (203.20)	A9CCG-0508F-ND	5.59	45.54	335.58
6	2 (50.80)	A9CCG-0602F-ND	5.23	42.61	313.95
	3 (76.20)	A9CCG-0603F-ND	5.38	43.78	322.56
	4 (101.60)	A9CCG-0604F-ND	5.52	44.97	331.38
	5 (127.00)	A9CCG-0605F-ND	5.67	46.17	340.20
	6 (152.40)	A9CCG-0606F-ND	5.82	47.37	349.02
	8 (203.20)	A9CCG-0608F-ND	6.11	49.76	366.66
8	2 (50.80)	A9CCG-0802F-ND	6.09	49.62	365.61
	3 (76.20)	A9CCG-0803F-ND	6.27	51.07	376.32
	4 (101.60)	A9CCG-0804F-ND	6.45	52.53	387.03
	5 (127.00)	A9CCG-0805F-ND	6.63	54.01	397.95
	6 (152.40)	A9CCG-0806F-ND	6.81	55.46	408.66
	8 (203.20)	A9CCG-0808F-ND	7.17	58.40	430.29
9	2 (50.80)	A9CCG-0902F-ND	6.61	53.81	396.48
	3 (76.20)	A9CCG-0903F-ND	6.83	55.63	409.92
	4 (101.60)	A9CCG-0904F-ND	7.06	57.46	423.36
	5 (127.00)	A9CCG-0905F-ND	7.28	59.28	436.80
	6 (152.40)	A9CCG-0906F-ND	7.50	61.08	450.03
	8 (203.20)	A9CCG-0908F-ND	7.95	64.72	476.91
10	2 (50.80)	A9CCG-1002F-ND	7.01	57.11	420.84
	3 (76.20)	A9CCG-1003F-ND	7.24	58.97	434.49
	4 (101.60)	A9CCG-1004F-ND	7.47	60.82	448.14
	5 (127.00)	A9CCG-1005F-ND	7.70	62.70	462.00
	6 (152.40)	A9CCG-1006F-ND	7.93	64.55	475.65
	8 (203.20)	A9CCG-1008F-ND	8.38	68.26	502.95
11	2 (50.80)	A9CCG-1102F-ND	7.42	60.42	445.20
	3 (76.20)	A9CCG-1103F-ND	7.65	62.33	459.27
	4 (101.60)	A9CCG-1104F-ND	7.89	64.24	473.34
	5 (127.00)	A9CCG-1105F-ND	8.12	66.12	487.20
	6 (152.40)	A9CCG-1106F-ND	8.35	68.03	501.27
	8 (203.20)	A9CCG-1108F-ND	8.82	71.82	529.20
12	2 (50.80)	A9CCG-1202F-ND	8.03	65.38	481.74
	3 (76.20)	A9CCG-1203F-ND	8.34	67.94	500.64
	4 (101.60)	A9CCG-1204F-ND	8.66	70.51	519.54
	5 (127.00)	A9CCG-1205F-ND	8.97	73.05	538.23
	6 (152.40)	A9CCG-1206F-ND	9.29	75.61	557.13
	8 (203.20)	A9CCG-1208F-ND	9.91	80.71	594.72
13	2 (50.80)	A9CCG-1302F-ND	8.45	68.77	506.73
	3 (76.20)	A9CCG-1303F-ND	8.76	71.36	525.84
	4 (101.60)	A9CCG-1304F-ND	9.08	73.96	544.95
	5 (127.00)	A9CCG-1305F-ND	9.40	76.52	563.85
	6 (152.40)	A9CCG-1306F-ND	9.72	79.12	582.96
	8 (203.20)	A9CCG-1308F-ND	10.35	84.30	621.18
14	2 (50.80)	A9CCG-1402F-ND	8.85	72.08	531.09
	3 (76.20)	A9CCG-1403F-ND	9.17	74.70	550.41
	4 (101.60)	A9CCG-1404F-ND	9.50	77.32	569.73
	5 (127.00)	A9CCG-1405F-ND	9.82	79.97	589.26
	6 (152.40)	A9CCG-1406F-ND	10.14	82.59	608.58
	8 (203.20)	A9CCG-1408F-ND	10.79	87.84	647.22
15	2 (50.80)	A9CCG-1502F-ND	9.75	79.40	585.06
	3 (76.20)	A9CCG-1503F-ND	10.08	82.08	604.80
	4 (101.60)	A9CCG-1504F-ND	10.41	84.76	624.54
	5 (127.00)	A9CCG-1505F-ND	10.74	87.44	644.28
	6 (152.40)	A9CCG-1506F-ND	11.07	90.12	664.02
	8 (203.20)	A9CCG-1508F-ND	11.73	95.48	703.50
16	2 (50.80)	A9CCG-1602F-ND	10.34	84.16	620.13
	3 (76.20)	A9CCG-1603F-ND	10.67	86.87	640.08
	4 (101.60)	A9CCG-1604F-ND	11.00	89.58	660.03
	5 (127.00)	A9CCG-1605F-ND	11.34	92.31	680.19
	6 (152.40)	A9CCG-1606F-ND	11.67	95.02	700.14
	8 (203.20)	A9CCG-1608F-ND	12.34	100.46	740.25
18	2 (50.80)	A9CCG-1802F-ND	11.95	97.30	716.94
	3 (76.20)	A9CCG-1803F-ND	12.52	101.92	750.96
	4 (101.60)	A9CCG-1804F-ND	13.08	106.53	784.98
	5 (127.00)	A9CCG-1805F-ND	13.65	111.15	819.00
	6 (152.40)	A9CCG-1806F-ND	14.22	115.77	853.02
	8 (203.20)	A9CCG-1808F-ND	15.35	124.97	920.85
20	2 (50.80)	A9CCG-2002F-ND	13.12	106.85	787.29
	3 (76.20)	A9CCG-2003F-ND	13.70	111.55	821.94
	4 (101.60)	A9CCG-2004F-ND	14.28	116.25	856.59
	5 (127.00)	A9CCG-2005F-ND	14.85	120.95	891.24
	6 (152.40)	A9CCG-2006F-ND	15.43	125.66	925.89
	8 (203.20)	A9CCG-2008F-ND	16.59	135.09	995.40

Also available in 30µ Gold, A9CCA – □□□□F-ND
Call for complete part number and pricing.

.050" (1.27mm) Flat Flex Cable

Material:

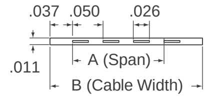
- Insulation: Flame retardant polyester film

Performance Characteristics:

- Current Rating: 1.5 amperes (30AWG equivalent)
- Voltage Rating: 300 volts
- Temperature Rating: -20°C to +105°C
- Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1
- Dielectric Strength: 2500V/MIL

Typical Electrical Values:

- Resistance: 110Ω/1000 feet (304.8 meters) max.
- Capacitance: 13.8 pf/ft (max.)
- Impedance: 113 ohms



No. of Con-tacts	Dim. Inch (mm) A	B	Digi-Key Part No.	Pricing 500 Ft.
4	.150 (3.81)	.250 (6.35)	AE04-500-ND	300.00
5	.200 (5.08)	.300 (7.62)	AE05-500-ND	307.50
6	.250 (6.35)	.350 (8.89)	AE06-500-ND	315.00
7	.300 (7.62)	.400 (10.16)	AE07-500-ND	322.50
8	.350 (8.89)	.450 (11.43)	AE08-500-ND	330.00
10	.450 (11.43)	.550 (13.97)	AE10-500-ND	345.00
12	.550 (13.97)	.650 (16.51)	AE12-500-ND	367.50
17	.800 (20.32)	.900 (22.86)	AE17-500-ND	442.50
20	.950 (24.13)	1.050 (26.67)	AE20-500-ND	510.00
22	1.050 (26.67)	1.150 (29.21)	AE22-500-ND	555.00
25	1.200 (30.48)	1.300 (33.02)	AE25-500-ND	645.00

.100" (2.54mm) Flat Flex Cable

Material:

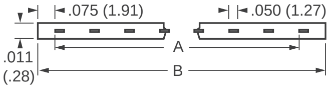
- Conductors: Unplated copper per QQ-C502
- Insulation: Flame retardant polyester film

Performance Characteristics:

- Current Rating: 2 amperes (28 AWG equivalent)
- Voltage Rating: 300 volts
- Temperature Rating: -55° to +105°C
- Insulation Resistance: 5000 megohms (min.)
- Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1
- UL Style 2643

Typical Electrical Values:

- Resistance: 55Ω/1000 feet (304.8 meters) max.
- Capacitance: 10.8 pf/ft (max.)
- Impedance: 128 ohms



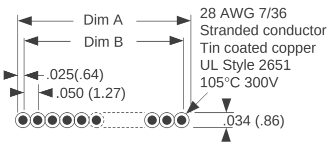
Flex Cable

No. of Con-tacts	Dim. Inch (mm) A	B	Digi-Key Part No.	Pricing 500 Ft.
2	.100 (2.54)	.300 (7.62)	AF02-500-ND	247.50
3	.200 (5.08)	.400 (10.16)	AF03-500-ND	270.00
4	.300 (7.62)	.500 (12.70)	AF04-500-ND	285.00
5	.400 (10.16)	.600 (15.24)	AF05-500-ND	292.50
6	.500 (12.70)	.700 (17.78)	AF06-500-ND	315.00
8	.700 (17.78)	.900 (22.86)	AF08-500-ND	352.50
9	.800 (20.32)	1.000 (25.40)	AF09-500-ND	405.00
10	.900 (22.86)	1.100 (27.94)	AF10-500-ND	420.00
11	1.000 (25.40)	1.200 (30.48)	AF11-500-ND	435.00
12	1.100 (27.94)	1.300 (33.02)	AF12-500-ND	450.00
13	1.200 (30.48)	1.400 (35.56)	AF13-500-ND	465.00
14	1.300 (33.02)	1.500 (38.10)	AF14-500-ND	480.00
15	1.400 (35.56)	1.600 (40.64)	AF15-500-ND	495.00
16	1.500 (38.10)	1.700 (43.18)	AF16-500-ND	540.00
18	1.700 (43.18)	1.900 (48.26)	AF18-500-ND	622.50
20	1.900 (48.26)	2.100 (53.34)	AF20-500-ND	712.50

Ribbon Cable

Insulation Material: PVC, UL VW-1.
Capacitance pf1ft.: 12.6.
Color: Color-coded is standard 10 color repeat (brown, red, orange, yellow, green, blue, purple, gray, white, black). Gray has single-edge strip for pin one orientation.
Inductance μH/ft.: 20.
Edge Marking: None.
Propagation Delay ns1ft.: 1.4.
Center Spacing - Inch (mm): .050" (1.27mm).
Insulation Resistance: 1x10^{10} ohms 110 ft. 10f (3m) sample used, measured at 500 V.
Conductor: Stranded copper, tinned.
Rise Time ns: 3.
Conductor Size: #28 AWG 7x36.
Voltage Rating: 300 V RMS.
Impedance, ohms: 100. Impedance, capacitance, inductance, and propagation delay were measured Ground-Signal-Ground on a time-domain reflectometer.
Temperature Rating: -20°C to + 105°C. Maximum storage temperature for unterminated bulk cable is 120°F (50°C).
UL Style Number: 2651.

Physical Specifications (Dimensions)



Conductors	Dim. – Inch (mm) "A"	"B"
10	.500 (12.70)	.450 (11.43)
14	.700 (17.78)	.650 (16.51)
16	.800 (20.32)	.750 (19.05)
20	1.000 (25.40)	.950 (24.13)
24	1.200 (30.48)	1.150 (29.21)
26	1.300 (33.02)	1.250 (31.75)
34	1.700 (43.18)	1.650 (41.91)
36	1.800 (45.72)	1.750 (44.45)
40	2.000 (50.80)	1.950 (49.53)
50	2.500 (63.50)	2.450 (62.23)
60	3.000 (76.20)	2.950 (74.93)
64	3.200 (81.28)	3.150 (80.01)

Multi-Color Ribbon Cable*

With Standard 10 Color Repeat Sequence

No. of Con-tacts	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
9	R012-X-ND	1.13	2.02	4.88	9.42	17.44
10	R000-X-ND	1.27	2.26	5.46	10.53	19.50
14	R001-X-ND	1.78	3.18	7.67	14.78	27.38
16	R002-X-ND	2.03	3.63	8.75	16.88	31.25
20	R003-X-ND	2.54	4.54	10.96	21.13	39.13
24	R004-X-ND	3.06	5.45	13.16	25.38	47.00
25	R011-X-ND	3.19	5.69	13.74	26.49	49.06
26	R005-X-ND	3.30	5.89	14.23	27.44	50.81
34	R006-X-ND	4.31	7.69	18.55	35.78	66.25
36	R010-X-ND	5.48	9.77	23.59	45.50	84.25
37	R013-X-ND	4.67	8.33	20.11	38.78	71.81
40	R007-X-ND	5.09	9.08	21.91	42.26	78.25
50	R008-X-ND	6.36	11.35	27.41	52.85	97.88
60	R009-X-ND	7.60	13.56	32.73	63.11	116.88
64	R014-X-ND	8.09	14.44	34.86	67.23	124.50

** Cable available in 200 ft reel , Please call for pricing*

Gray Ribbon Cable*

With Single Edge Red Strip For Pin One Orientation

No. of Con-tacts	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
9	R019-X-ND	.93	1.66	4.01	7.73	14.31
10	R020-X-ND	.87	1.55	3.75	7.22	13.38
14	R021-X-ND	1.24	2.20	5.32	10.26	19.00
16	R022-X-ND	1.40	2.49	6.02	11.61	21.50
20	R023-X-ND	1.76	3.13	7.56	14.58	27.00
24	R024-X-ND	2.10	3.74	9.03	17.42	32.25
26	R025-X-ND	2.29	4.09	9.87	19.04	35.25
34	R026-X-ND	2.99	5.34	12.88	24.84	46.00
40	R027-X-ND	3.51	6.27	15.14	29.19	54.06
50	R028-X-ND	4.39	7.83	18.90	36.45	67.50
60	R029-X-ND	5.25	9.37	22.63	43.64	80.81
64	R030-X-ND	10.08	17.98	43.40	83.70	155.00

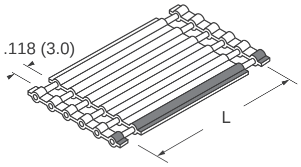
** Cable available in 200 ft reel , Please call for pricing*

.100" (2.54mm) Round Conductor Flat Cable in Precut Lengths

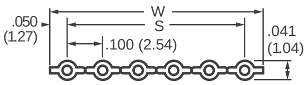
26 AWG (7 x 34) Stranded, Topcoat

Features:

- Gray PVC insulation
- U.L. temperature rating -20°C to 105°C
- U.L. voltage 300 V. max.
- U.L. flammability rating VW-1
- U.L. Style No. 2651
- U.L. recognized (File #E61522)
- CSA certification (File #LL61126)



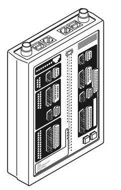
Digi-Key Part No.	Dimension L In. (mm)
XXXX-02-ND	2" (50.80)
XXXX-04-ND	4" (101.6)
XXXX-06-ND	6" (152.4)



No. of Positions	Dim. S In. (mm)	Dim. W (Ref.) In. (mm)
3	.200 (5.08)	.300 (7.62)
4	.300 (7.62)	.400 (10.16)
5	.400 (10.16)	.500 (12.70)
6	.500 (12.70)	.600 (15.24)
7	.600 (15.24)	.700 (17.78)
8	.700 (17.78)	.800 (20.32)
9	.800 (20.32)	.900 (22.86)
10	.900 (22.86)	1.000 (25.40)

Pos.	Digi-Key Part No.	Pricing 1	10	Molex Part No.
3	WM03-02-ND WM03-04-ND WM03-06-ND	.40 .48 .59	3.53 4.27 5.18	25001-0302 25001-0304 25001-0306
4	WM04-02-ND WM04-04-ND WM04-06-ND	.56 .70 .86	4.95 6.15 7.63	25001-0402 25001-0404 25001-0406
5	WM05-02-ND WM05-04-ND	.58 .73	5.12 6.43	25001-0502 25001-0504
6	WM06-02-ND WM06-04-ND WM06-06-ND	.60 .76 .97	5.29 6.72 8.54	25001-0602 25001-0604 25001-0606
7	WM07-02-ND WM07-04-ND WM07-06-ND	.61 .80 1.02	5.41 7.06 9.00	25001-0702 25001-0704 25001-0706
8	WM08-02-ND WM08-04-ND WM08-06-ND	.63 .84 1.08	5.58 7.41 9.51	25001-0802 25001-0804 25001-0806
9	WM09-02-ND WM09-04-ND WM09-06-ND	.65 .87 1.13	5.75 7.68 9.97	25001-0902 25001-0904 25001-0906
10	WM10-02-ND WM10-04-ND WM10-06-ND	.67 .92 1.20	5.92 8.09 10.55	25001-1002 25001-1004 25001-1006

PC Cable Tester



Tests continuity of PC cables. Identifies open, shorted and cross connected wires. Tests combinations of coax: RG 58, 59, 62 BNC; RJ45 and RJ11 telephone cables; D-Sub 9 Pin (male/female); D-Sub 15 Pin (including H.D. and male/female); D-Sub 25 Pin (male/female). Tests shield continuity. Battery included.

Now has USB connections.

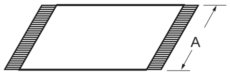
PAL1570-ND **$179.99**

0.5mm and 1mm Flat Flex Cable

Parlex custom jumper cables are available with flat conductors of desired length, stripped at both ends. The insulation has been stripped from one side only, exposing one surface of the conductors. Conductors have been pre-tinned for direct insertion into connectors.

Features:
• Superior Mechanical and Shielding Performance • Meets FCC, CIS PR/VDE effectivity requirements for inter connects • High flexibility rating of 10 million flex cycles on a .6” (15.24mm) radius with optimum design layout • Superior mechanical and abrasion resistance

Cable Characteristics:
• **Conductors:** Cu., tin/lead plated • **Current Rating:** 0.5A (0.5mm); 1.50A (1mm) • **Voltage Rating:** 90 volts • **Insulation:** polyester • **Temperature Rating:** -55°C to 105°C • **Dielectric Strength:** 2500 volts/mil • **U.L. Flame Rating:** VW-1 • **U.L. Styles:** 20890 & 20566



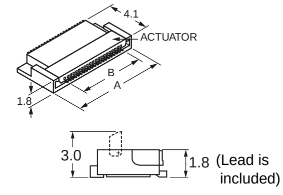
0.5mm Flat Flex Cable

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing				Parlex Part No.
			1	10	100	250	
2” (5.08cm) Unshielded Flat Flex Cable							
10	5.5	HFF-10U-02-ND	3.60	30.00	220.00	466.00	0.5MM-10-2-B
20	10.5	HFF-20U-02-ND	3.74	31.13	228.25	483.48	0.5MM-20-2-B
24	12.5	HFF-24U-02-ND	3.78	31.50	231.00	489.30	0.5MM-24-2-B
30	15.5	HFF-30U-02-ND	3.83	31.88	233.75	495.13	0.5MM-30-2-B
36	18.5	HFF-36U-02-ND	3.87	32.25	236.50	500.95	0.5MM-36-2-B
40	20.5	HFF-40U-02-ND	3.92	32.63	239.25	506.78	0.5MM-40-2-B
50	25.5	HFF-50U-02-ND	4.05	33.75	247.50	524.25	0.5MM-50-2-B
4” (10.16cm) Unshielded Flat Flex Cable							
10	5.5	HFF-10U-04-ND	4.05	33.75	247.50	524.25	0.5MM-10-4-B
20	10.5	HFF-20U-04-ND	4.28	35.63	261.25	553.38	0.5MM-20-4-B
24	12.5	HFF-24U-04-ND	4.37	36.38	266.75	565.03	0.5MM-24-4-B
30	15.5	HFF-30U-04-ND	4.50	37.50	275.00	582.50	0.5MM-30-4-B
36	18.5	HFF-36U-04-ND	4.64	38.63	283.25	599.98	0.5MM-36-4-B
40	20.5	HFF-40U-04-ND	4.73	39.38	288.75	611.63	0.5MM-40-4-B
50	25.5	HFF-50U-04-ND	4.95	41.25	302.50	640.75	0.5MM-50-4-B
6” (15.24cm) Unshielded Flat Flex Cable							
10	5.5	HFF-10U-06-ND	4.50	37.50	275.00	582.50	0.5MM-10-6-B
20	10.5	HFF-20U-06-ND	4.95	41.25	302.50	640.75	0.5MM-20-6-B
24	12.5	HFF-24U-06-ND	5.18	43.13	316.25	669.88	0.5MM-24-6-B
30	15.5	HFF-30U-06-ND	5.40	45.00	330.00	699.00	0.5MM-30-6-B
36	18.5	HFF-36U-06-ND	5.54	46.13	338.25	716.48	0.5MM-36-6-B
40	20.5	HFF-40U-06-ND	5.63	46.88	343.75	728.13	0.5MM-40-6-B
50	25.5	HFF-50U-06-ND	5.85	48.75	357.50	757.25	0.5MM-50-6-B

1mm Flat Flex Cable

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing				Parlex Part No.
			1	10	100	250	
2” (5.08cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-02-ND	2.25	18.75	137.50	291.25	1.00MM-6-2-B
8	9.15	HF08U-02-ND	2.48	20.63	151.25	320.38	1.00MM-8-2-B
10	11.15	HF10U-02-ND	2.70	22.50	165.00	349.50	1.00MM-10-2-B
12	13.15	HF12U-02-ND	2.93	24.38	178.75	378.63	1.00MM-12-2-B
14	15.15	HF14U-02-ND	3.15	26.25	192.50	407.75	1.00MM-14-2-B
16	17.15	HF16U-02-ND	3.38	28.13	206.25	436.88	1.00MM-16-2-B
18	19.15	HF18U-02-ND	3.60	30.00	220.00	466.00	1.00MM-18-2-B
20	21.15	HF20U-02-ND	3.83	31.88	233.75	495.13	1.00MM-20-2-B
22	23.15	HF22U-02-ND	4.05	33.75	247.50	524.25	1.00MM-22-2-B
24	25.15	HF24U-02-ND	4.28	35.63	261.25	553.38	1.00MM-24-2-B
26	27.15	HF26U-02-ND	4.50	37.50	275.00	582.50	1.00MM-26-2-B
28	29.15	HF28U-02-ND	4.73	39.38	288.75	611.63	1.00MM-28-2-B
30	31.15	HF30U-02-ND	4.95	41.25	302.50	640.75	1.00MM-30-2-B
3” (7.62cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-03-ND	2.48	20.63	151.25	320.38	1.00MM-6-3-B
8	9.15	HF08U-03-ND	2.70	22.50	165.00	349.50	1.00MM-8-3-B
10	11.15	HF10U-03-ND	2.93	24.38	178.75	378.63	1.00MM-10-3-B
12	13.15	HF12U-03-ND	3.15	26.25	192.50	407.75	1.00MM-12-3-B
14	15.15	HF14U-03-ND	3.38	28.13	206.25	436.88	1.00MM-14-3-B
16	17.15	HF16U-03-ND	3.60	30.00	220.00	466.00	1.00MM-16-3-B
18	19.15	HF18U-03-ND	3.83	31.88	233.75	495.13	1.00MM-18-3-B
20	21.15	HF20U-03-ND	4.05	33.75	247.50	524.25	1.00MM-20-3-B
22	23.15	HF22U-03-ND	4.28	35.63	261.25	553.38	1.00MM-22-3-B
24	25.15	HF24U-03-ND	4.50	37.50	275.00	582.50	1.00MM-24-3-B
26	27.15	HF26U-03-ND	4.73	39.38	288.75	611.63	1.00MM-26-3-B
28	29.15	HF28U-03-ND	4.95	41.25	302.50	640.75	1.00MM-28-3-B
30	31.15	HF30U-03-ND	5.18	43.13	316.25	669.88	1.00MM-30-3-B
4” (10.16cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-04-ND	2.70	22.50	165.00	349.50	1.00MM-6-4-B
8	9.15	HF08U-04-ND	2.93	24.38	178.75	378.63	1.00MM-8-4-B
10	11.15	HF10U-04-ND	3.15	26.25	192.50	407.75	1.00MM-10-4-B
12	13.15	HF12U-04-ND	3.38	28.13	206.25	436.88	1.00MM-12-4-B
14	15.15	HF14U-04-ND	3.60	30.00	220.00	466.00	1.00MM-14-4-B
16	17.15	HF16U-04-ND	3.83	31.88	233.75	495.13	1.00MM-16-4-B
18	19.15	HF18U-04-ND	4.05	33.75	247.50	524.25	1.00MM-18-4-B
20	21.15	HF20U-04-ND	4.28	35.63	261.25	553.38	1.00MM-20-4-B
22	23.15	HF22U-04-ND	4.50	37.50	275.00	582.50	1.00MM-22-4-B
24	25.15	HF24U-04-ND	4.73	39.38	288.75	611.63	1.00MM-24-4-B
26	27.15	HF26U-04-ND	4.95	41.25	302.50	640.75	1.00MM-26-4-B
28	29.15	HF28U-04-ND	5.18	43.13	316.25	669.88	1.00MM-28-4-B
30	31.15	HF30U-04-ND	5.40	45.00	330.00	699.00	1.00MM-30-4-B
5” (12.70cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-05-ND	2.93	24.38	178.75	378.63	1.00MM-6-5-B
8	9.15	HF08U-05-ND	3.15	26.25	192.50	407.75	1.00MM-8-5-B
10	11.15	HF10U-05-ND	3.38	28.13	206.25	436.88	1.00MM-10-5-B
12	13.15	HF12U-05-ND	3.60	30.00	220.00	466.00	1.00MM-12-5-B
14	15.15	HF14U-05-ND	3.83	31.88	233.75	495.13	1.00MM-14-5-B
16	17.15	HF16U-05-ND	4.05	33.75	247.50	524.25	1.00MM-16-5-B
18	19.15	HF18U-05-ND	4.28	35.63	261.25	553.38	1.00MM-18-5-B
20	21.15	HF20U-05-ND	4.50	37.50	275.00	582.50	1.00MM-20-5-B
22	23.15	HF22U-05-ND	4.73	39.38	288.75	611.63	1.00MM-22-5-B
24	25.15	HF24U-05-ND	4.95	41.25	302.50	640.75	1.00MM-24-5-B
26	27.15	HF26U-05-ND	5.18	43.13	316.25	669.88	1.00MM-26-5-B
28	29.15	HF28U-05-ND	5.40	45.00	330.00	699.00	1.00MM-28-5-B
30	31.15	HF30U-05-ND	5.63	46.88	343.75	728.13	1.00MM-30-5-B
6” (15.24cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-06-ND	3.15	26.25	192.50	407.75	1.00MM-6-6-B
8	9.15	HF08U-06-ND	3.38	28.13	206.25	436.88	1.00MM-8-6-B
10	11.15	HF10U-06-ND	3.60	30.00	220.00	466.00	1.00MM-10-6-B
12	13.15	HF12U-06-ND	3.83	31.88	233.75	495.13	1.00MM-12-6-B
14	15.15	HF14U-06-ND	4.05	33.75	247.50	524.25	1.00MM-14-6-B
16	17.15	HF16U-06-ND	4.28	35.63	261.25	553.38	1.00MM-16-6-B
18	19.15	HF18U-06-ND	4.50	37.50	275.00	582.50	1.00MM-18-6-B
20	21.15	HF20U-06-ND	4.73	39.38	288.75	611.63	1.00MM-20-6-B
22	23.15	HF22U-06-ND	4.95	41.25	302.50	640.75	1.00MM-22-6-B
24	25.15	HF24U-06-ND	5.18	43.13	316.25	669.88	1.00MM-24-6-B
26	27.15	HF26U-06-ND	5.40	45.00	330.00	699.00	1.00MM-26-6-B
28	29.15	HF28U-06-ND	5.63	46.88	343.75	728.13	1.00MM-28-6-B
30	31.15	HF30U-06-ND	5.85	48.75	357.50	757.25	1.00MM-30-6-B
8” (20.32cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-08-ND	3.60	30.00	220.00	466.00	1.00MM-6-8-B
8	9.15	HF08U-08-ND	3.83	31.88	233.75	495.13	1.00MM-8-8-B
10	11.15	HF10U-08-ND	4.05	33.75	247.50	524.25	1.00MM-10-8-B
12	13.15	HF12U-08-ND	4.28	35.63	261.25	553.38	1.00MM-12-8-B
14	15.15	HF14U-08-ND	4.50	37.50	275.00	582.50	1.00MM-14-8-B
16	17.15	HF16U-08-ND	4.73	39.38	288.75	611.63	1.00MM-16-8-B
18	19.15	HF18U-08-ND	4.95	41.25	302.50	640.75	1.00MM-18-8-B
20	21.15	HF20U-08-ND	5.18	43.13	316.25	669.88	1.00MM-20-8-B
22	23.15	HF22U-08-ND	5.40	45.00	330.00	699.00	1.00MM-22-8-B
24	25.15	HF24U-08-ND	5.63	46.88	343.75	728.13	1.00MM-24-8-B
26	27.15	HF26U-08-ND	5.85	48.75	357.50	757.25	1.00MM-26-8-B
28	29.15	HF28U-08-ND	6.08	50.63	371.25	786.38	1.00MM-28-8-B
30	31.15	HF30U-08-ND	6.30	52.50	385.00	815.50	1.00MM-30-8-B
10” (25.40cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-10-ND	4.05	33.75	247.50	524.25	1.00MM-6-10-B
8	9.15	HF08U-10-ND	4.28	35.63	261.25	553.38	1.00MM-8-10-B
10	11.15	HF10U-10-ND	4.50	37.50	275.00	582.50	1.00MM-10-10-B
12	13.15	HF12U-10-ND	4.73	39.38	288.75	611.63	1.00MM-12-10-B
14	15.15	HF14U-10-ND	4.95	41.25	302.50	640.75	1.00MM-14-10-B
16	17.15	HF16U-10-ND	5.18	43.13	316.25	669.88	1.00MM-16-10-B
18	19.15	HF18U-10-ND	5.40	45.00	330.00	699.00	1.00MM-18-10-B
20	21.15	HF20U-10-ND	5.63	46.88	343.75	728.13	1.00MM-20-10-B
22	23.15	HF22U-10-ND	5.85	48.75	357.50	757.25	1.00MM-22-10-B
24	25.15	HF24U-10-ND	6.08	50.63	371.25	786.38	1.00MM-24-10-B
26	27.15	HF26U-10-ND	6.30	52.50	385.00	815.50	1.00MM-26-10-B
28	29.15	HF28U-10-ND	6.53	54.38	398.75	844.63	1.00MM-28-10-B
30	31.15	HF30U-10-ND	6.75	56.25	412.50	873.75	1.00MM-30-10-B
12” (30.48cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-12-ND	4.50	37.50	275.00	582.50	1.00MM-6-12-B
8	9.15	HF08U-12-ND	4.73	39.38	288.75	611.63	1.00MM-8-12-B
10	11.15	HF10U-12-ND	4.95	41.25	302.50	640.75	1.00MM-10-12-B
12	13.15	HF12U-12-ND	5.18	43.13	316.25	669.88	1.00MM-12-12-B
14	15.15	HF14U-12-ND	5.40	45.00	330.00	699.00	1.00MM-14-12-B
16	17.15	HF16U-12-ND	5.63	46.88	343.75	728.13	1.00MM-16-12-B
18	19.15	HF18U-12-ND	5.85	48.75	357.50	757.25	1.00MM-18-12-B
20	21.15	HF20U-12-ND	6.08	50.63	371.25	786.38	1.00MM-20-12-B
22	23.15	HF22U-12-ND	6.30	52.50	385.00	815.50	1.00MM-22-12-B
24	25.15	HF24U-12-ND	6.53	54.38	398.75	844.63	1.00MM-24-12-B
26	27.15	HF26U-12-ND	6.75	56.25	412.50	873.75	1.00MM-26-12-B
28	29.15	HF28U-12-ND	6.98	58.13	426.25	902.88	1.00MM-28-12-B
30	31.15	HF30U-12-ND	7.20	60.00	440.00	932.00	1.00MM-30-12-B
18” (45.72cm) Unshielded Flat Flex Cable							
6	7.15	HF06U-18-ND	5.85	48.75	357.50	757.25	1.00MM-6-18-B
8	9.15	HF08U-18-ND	6.08	50.63	371.25	786.38	1.00MM-8-18-B
10	11.15	HF10U-18-ND	6.30	52.50	385.00	815.50	1.00MM-10-18-B
12	13.15	HF12U-18-ND	6.53	54.38	398.75	844.63	1.00MM-12-18-B
14	15.15	HF14U-18-ND	6.75	56.25	412.50	873.75	1.00MM-14-18-B
16	17.15	HF16U-18-ND	6.98	58.13	426.25	902.88	1.00MM-16-18-B
18	19.15	HF18U-18-ND	7.20	60.00	440.00	932.00	1.00MM-18-18-B
20	21.15	HF20U-18-ND	7.43	61.88	453.75	961.13	1.00MM-20-18-B
22	23.15	HF22U-18-ND	7.65	63.75	467.50	990.25	1.00MM-22-18-B
24	25.15	HF24U-18-ND	7.88	65.63	481.25	1019.38	1.00MM-24-18-B
26	27.15	HF26U-18-ND	8.10	67.50	495.00	1048.50	1.00MM-26-18-B
28	29.15	HF28U-18-ND	8.33	69.38	508.75	1077.63	1.00MM-28-18-B
30	31.15	HF30U-18-ND	8.55	71.25	522.50	1106.75	1.00MM-30-18-B

HIROSE ELECTRIC CO.,LTD. 0.3mm Flex Connectors Low Profile - FH18 Series



Features: • Contact spacing (pitch) 0.3mm • Flexible printed circuits (FPC) with contact spacing of 0.3mm are used with increased frequency *(These connectors occupy less board space and are lighter than comparable connectors with contacts spaced at 0.5mm)*

Applications: Consumer electronics, portable equipment, cameras, PDA's and other devices where board space and component packaging requires ultra small interconnection. **Ratings:** • **Current**: 0.15A • **Temperature Range**: -40°C to +70°C • **Voltage**: 30V AC

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape & Reel Pricing 2,500	5,000	10,000	Hirose Part No.
17	7.6	4.8	HFM17CT-ND	1.86	1.35	1.11	.94	HFM17TR-ND	637.00/M	624.75/M	612.50/M	FH18-17S-0.3SHW
21	8.8	6.0	HFM21CT-ND	1.63	1.25	1.00	.83	HFM21TR-ND	637.50/M	625.00/M	612.50/M	FH18-21S-0.3SHW
25	10.0	7.2	HFM25CT-ND	1.82	1.40	1.12	.93	HFM25TR-ND	714.00/M	700.00/M	686.00/M	FH18-25S-0.3SHW
27	10.6	7.8	HFM27CT-ND	1.82	1.40	1.12	.93	HFM27TR-ND	714.00/M	700.00/M	686.00/M	FH18-27S-0.3SHW
39	14.2	11.4	HFM39CT-ND	2.08	1.60	1.28	1.07	HFM39TR-ND	816.00/M	800.00/M	784.00/M	FH18-39S-0.3SHW
51	17.8	15.0	HFM51CT-ND	2.34	1.80	1.44	1.20	HFM51TR-ND	918.00/M	900.00/M	882.00/M	FH18-51S-0.3SHW

0.5mm Flex Connectors “Flip-Lock” SMT/ZIF Type Flexible Printed Circuit Board Connectors

The FH12 Series of miniature connectors for FPC/FFC use brings form to the newly developed “flip-lock” concept and can be used with SMT (surface mount technology) to eliminate the problems of the contemporary slide-lock system. These connectors have a contact spacing of 0.5mm, are suited to high density mounting, and are based on a single-action ZIF (zero insertion force) structure for easy connections. Types with top or bottom contacts, and vertical mounting are available to suit your applications.

Materials/Finish: • **Insulation**: Polyimide Resin, beige; PPS Resin, dark brown (UL94V-0) • **Contacts**: Phosphor Bronze, solder plating

Electrical: • **Rated Current**: 0.4A • **Insulation Resistance**: 500MΩ or greater at 100V DC • **Withstand Voltage**: 150V AC for one minute • **Contact Resistance**: 50mΩ or less *(Note: When all conductors are to continuously carry the rated current, set the current to 70% of the rated current value.)*

Fig. 1

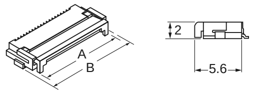


Fig. 2

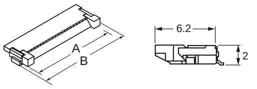


Fig. 3

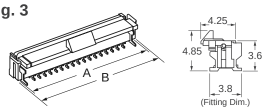


Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape & Reel Pricing 1,000	2,000	6,000	Hirose Part No.
Horizontal Mount — Bottom Contact Type													
1	10	8.1	9.1	HFJ10CT-ND	1.55	1.21	.92	.78	HFJ10TR-ND	—	529.10/M	518.93/M	FH12-10S-0.5SH
	20	13.1	14.1	HFJ20CT-ND	1.90	1.48	1.13	.95	HFJ20TR-ND	—	648.70/M	636.23/M	FH12-20S-0.5SH
	24	15.1	16.1	HFJ24CT-ND	1.75	1.46	1.08	.90	HFJ24TR-ND	—	686.59/M	673.13/M	FH12-24S-0.5SH
	30	18.1	19.1	HFJ30CT-ND	1.92	1.60	1.19	.99	HFJ30TR-ND	—	753.53/M	738.75/M	FH12-30S-0.5SH
	40	23.1	24.1	HFJ40CT-ND	2.35	1.96	1.45	1.20	HFJ40TR-ND	—	921.19/M	903.13/M	FH12-40S-0.5SH
	50	28.1	29.1	HFJ50CT-ND	2.65	2.20	1.63	1.36	HFJ50TR-ND	—	1037.85/M	1017.50/M	FH12-50S-0.5SH
Horizontal Mount — Top Contact Type													
2	10	8.35	9.1	HFK10CT-ND	1.20	.93	.71	.60	HFK10TR-ND	—	409.50/M	401.63/M	FH12A-10S-0.5SH
	20	13.35	14.1	HFK20CT-ND	1.55	1.21	.92	.78	HFK20TR-ND	—	529.10/M	518.93/M	FH12A-20S-0.5SH
	24	15.35	16.1	HFK24CT-ND	1.70	1.32	1.01	.85	HFK24TR-ND	—	580.45/M	569.29/M	FH12A-24S-0.5SH
	30	18.35	19.1	HFK30CT-ND	1.66	1.39	1.03	.85	HFK30TR-ND	—	652.80/M	640.00/M	FH12A-30S-0.5SH
	40	23.35	24.1	HFK40CT-ND	2.01	1.67	1.24	1.03	HFK40TR-ND	—	786.68/M	771.25/M	FH12A-40S-0.5SH
	50	28.35	29.1	HFK50CT-ND	2.35	1.96	1.45	1.20	HFK50TR-ND	—	921.19/M	903.13/M	FH12A-50S-0.5SH
Vertical Mount													
3	10	6.5	8.2	HFL10CT-ND	1.20	.93	.71	.60	HFL10TR-ND	418.95	409.50/M	—	FH12-10S-0.5SV
	20	11.5	13.2	HFL20CT-ND	1.60	1.24	.95	.80	HFL20TR-ND	558.60	546.00/M	—	FH12-20S-0.5SV
	24	13.5	15.2	HFL24CT-ND	1.75	1.36	1.04	.88	HFL24TR-ND	611.80	598.00/M	—	FH12-24S-0.5SV
	30	16.5	18.2	HFL30CT-ND	1.71	1.42	1.05	.88	HFL30TR-ND	698.25	669.38/M	—	FH12-30S-0.5SV
	40	21.5	23.2	HFL40CT-ND	2.09	1.74	1.29	1.07	HFL40TR-ND	855.19	819.83/M	—	FH12-40S-0.5SV
	50	26.5	28.2	HFL50CT-ND	2.43	2.03	1.50	1.25	HFL50TR-ND	996.17	954.98/M	—	FH12-50S-0.5SV

1mm Flex Connectors

1mm Pitch Flexible Printed Circuit Connectors (Figures 1 and 2)

Features: • High-density packaging achieved by 1mm pitch contacts • Dual-side contact construction allows FPC and FFC conductors to be inserted in either direction • Enhanced contact reliability through high contact pressure • Applicable to 0.25mm to 0.35mm thick flexible printed circuit boards • Uses PBT (UL94V-0) insulating materials which are highly resistant to solvents and high temperature • Kinked dip posts for board retention during wave soldering **Material/Finish:** • **Insulator**: Polybutylene Phthalate, black • **Contacts**: Phosphor Bronze, tin-lead plated **Electrical:** • **Rated Current**: 0.5A • **Insulation Resistance**: At 100V DC, 500MΩ min. • **Withstanding Voltage**: 150V AC for 1 minute • **Contact Resistance**: 40mΩ max.

SMT ZIF Type Flexible PCB Connectors (Figures 3 and 4)

Features: • Low profile type with 3mm packaged height; 1mm pitch permits high-density packaging • Excellent workability is offered by the ZIF structure which provides positive contact by only lightly inserting FPC/FFC and then pushing in the movable locking flap • Recommended thickness of flexible circuit board is 0.25mm to 0.30mm • PPS (UL94V-0) with excellent solvent resistance and high temperature resistance is used for the insulation material • The SMT type connectors permit high density and automatic packaging on circuit boards **Material/Finish:** • **Insulator**: PPS Resin, natural finish • **Contacts**: Phosphor Bronze, tin plating **Electrical:** • **Rated Current**: 0.5A • **Insulator Resistance**: 500MΩ at 100VDC min. • **Withstanding Voltage**: 150V AC for 1 minute at specified value • **Contact Resistance**: 25mΩ max.

Fig. 1

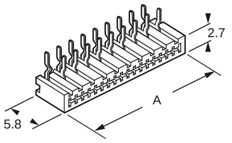


Fig. 2

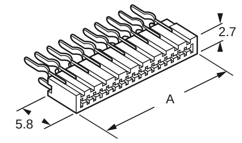


Fig. 3 Top Contact Type

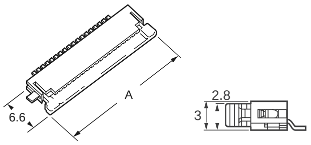
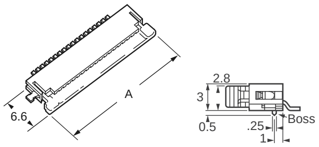


Fig. 4 Top Contact Type

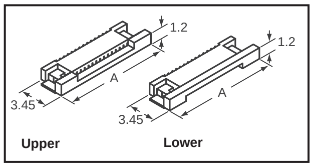


No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Hirose Part No.
Fig. 1 - Right Angle							
5	7	HFG05T-ND ***NEW!***	.60	.42	.29	.24	FH21-5S-1DS
6	8	HFG06T-ND	.60	.42	.29	.24	FH21-6S-1DS
8	10	HFG08T-ND	.70	.49	.33	.28	FH21-8S-1DS
10	12	HFG10T-ND	.68	.56	.41	.35	FH21-10S-1DS
12	14	HFG12T-ND	.76	.62	.45	.38	FH21-12S-1DS
14	16	HFG14T-ND	.87	.72	.52	.44	FH21-14S-1DS
15	17	HFG15T-ND ***NEW!***	.95	.78	.57	.48	FH21-15S-1DS
16	18	HFG16T-ND	.99	.77	.59	.50	FH21-16S-1DS
18	20	HFG18T-ND	1.06	.83	.63	.54	FH21-18S-1DS
20	22	HFG20T-ND	1.22	.95	.72	.61	FH21-20S-1DS
22	24	HFG22T-ND	1.25	.98	.75	.63	FH21-22S-1DS
24	26	HFG24T-ND	1.37	1.07	.81	.69	FH21-24S-1DS
26	28	HFG26T-ND	1.48	1.16	.88	.75	FH21-26S-1DS
28	30	HFG28T-ND	1.63	1.27	.97	.82	FH21-28S-1DS
30	32	HFG30T-ND	1.67	1.30	.99	.84	FH21-30S-1DS
Fig. 2 - Straight							
5	7	HFF05T-ND ***NEW!***	.60	.42	.29	.24	FH21-5S-1DSA
6	8	HFF06T-ND	.55	.39	.26	.22	FH21-6S-1DSA
8	10	HFF08T-ND	.65	.46	.31	.26	FH21-8S-1DSA
10	12	HFF10T-ND	.61	.50	.36	.31	FH21-10S-1DSA
12	14	HFF12T-ND	.68	.56	.41	.35	FH21-12S-1DSA
14	16	HFF14T-ND	.76	.62	.45	.38	FH21-14S-1DSA
15	17	HFF15T-ND ***NEW!***	.91	.75	.54	.46	FH21-15S-1DSA
16	18	HFF16T-ND	.87	.72	.52	.44	FH21-16S-1DSA
18	20	HFF18T-ND	.95	.78	.57	.48	FH21-18S-1DSA
20	22	HFF20T-ND	1.10	.86	.66	.56	FH21-20S-1DSA
22	24	HFF22T-ND	1.14	.89	.68	.57	FH21-22S-1DSA
24	26	HFF24T-ND	1.22	.95	.72	.61	FH21-24S-1DSA
26	28	HFF26T-ND	1.29	1.01	.77	.65	FH21-26S-1DSA
28	30	HFF28T-ND	1.44	1.13	.86	.73	FH21-28S-1DSA
30	32	HFF30T-ND	1.48	1.16	.88	.75	FH21-30S-1DSA
Fig. 3 - SMT Flex without Board Mount Boss							
6	12.2	HFE06F-ND	1.03	.80	.61	.52	FH10A-6S-1SH
7	13.2	HFE07F-ND ***NEW!***	1.48	1.21	.88	.75	FH10A-7S-1SH
8	14.2	HFE08F-ND	1.18	.92	.70	.59	FH10A-8S-1SH
9	15.2	HFE09F-ND ***NEW!***	1.60	1.31	.95	.80	FH10A-9S-1SH
10	16.2	HFE10F-ND	1.29	1.01	.77	.65	FH10A-10S-1SH
11	17.2	HFE11F-ND ***NEW!***	1.71	1.40	1.02	.86	FH10A-11S-1SH
12	18.2	HFE12F-ND	1.41	1.10	.84	.71	FH10A-12S-1SH
13	19.2	HFE13F-ND ***NEW!***	1.63	1.35	1.00	.83	FH10A-13S-1SH
14	20.2	HFE14F-ND	1.48	1.16	.88	.75	FH10A-14S-1SH
15	21.2	HFE15F-ND ***NEW!***	1.76	1.46	1.08	.90	FH10A-15S-1SH
16	22.2	HFE16F-ND	1.67	1.30	.99	.84	FH10A-16S-1SH
17	23.2	HFE17F-ND ***NEW!***	1.92	1.60	1.18	.98	FH10A-17S-1SH
18	24.2	HFE18F-ND	1.82	1.42	1.08	.92	FH10A-18S-1SH
19	25.2	HFE19F-ND ***NEW!***	2.02	1.68	1.24	1.03	FH10A-19S-1SH
20	26.2	HFE20F-ND	1.63	1.35	1.00	.83	FH10A-20S-1SH
21	27.2	HFE21F-ND ***NEW!***	2.15	1.79	1.32	1.10	FH10A-21S-1SH
22	28.2	HFE22F-ND	1.69	1.41	1.04	.87	FH10A-22S-1SH
23	29.2	HFE23F-ND ***NEW!***	2.24	1.87	1.38	1.15	FH10A-23S-1SH
24	30.2	HFE24F-ND	1.76	1.46	1.08	.90	FH10A-24S-1SH
25	31.2	HFE25F-ND ***NEW!***	2.54	2.11	1.56	1.30	FH10A-25S-1SH
26	32.2	HFE26F-ND	2.05	1.71	1.26	1.05	FH10A-26S-1SH
27	33.2	HFE27F-ND ***NEW!***	2.63	2.19	1.62	1.35	FH10A-27S-1SH
28	34.2	HFE28F-ND	2.11	1.76	1.30	1.08	FH10A-28S-1SH
29	35.2	HFE29F-ND ***NEW!***	2.73	2.27	1.68	1.40	FH10A-29S-1SH
30	36.2	HFE30F-ND	2.18	1.81	1.34	1.12	FH10A-30S-1SH
Fig. 4 - SMT Flex with Board Mount Boss							
6	12.2	HFH06T-ND	1.03	.80	.61	.52	FH10A-6S-1SHB
7	13.2	HFH07T-ND ***NEW!***	1.48	1.21	.88	.75	FH10A-7S-1SHB
8	14.2	HFH08T-ND	1.18	.92	.70	.59	FH10A-8S-1SHB
9	15.2	HFH09T-ND ***NEW!***	1.60	1.31	.95	.80	FH10A-9S-1SHB
10	16.2	HFH10T-ND	1.29	1.01	.77	.65	FH10A-10S-1SHB
11	17.2	HFH11T-ND ***NEW!***	1.71	1.40	1.02	.86	FH10A-11S-1SHB
12	18.2	HFH12T-ND	1.41	1.10	.84	.71	FH10A-12S-1SHB
13	19.2	HFH13T-ND ***NEW!***	1.63	1.35	1.00	.83	FH10A-13S-1SHB
14	20.2	HFH14T-ND	1.48	1.16	.88	.75	FH10A-14S-1SHB
15	21.2	HFH15T-ND ***NEW!***	1.76	1.46	1.08	.90	FH10A-15S-1SHB
16	22.2	HFH16T-ND	1.67	1.30	.99	.84	FH10A-16S-1SHB
17	23.2	HFH17T-ND ***NEW!***	1.92	1.60	1.18	.98	FH10A-17S-1SHB
18	24.2	HFH18T-ND	1.82	1.42	1.08	.92	FH10A-18S-1SHB
19	25.2	HFH19T-ND ***NEW!***	2.02	1.68	1.24	1.03	FH10A-19S-1SHB
20	26.2	HFH20T-ND	1.63	1.35	1.00	.83	FH10A-20S-1SHB
21	27.2	HFH21T-ND ***NEW!***	2.15	1.79	1.32	1.10	FH10A-21S-1SHB
22	28.2	HFH22T-ND	1.69	1.41	1.04	.87	FH10A-22S-1SHB
23	29.2	HFH23T-ND ***NEW!***	2.24	1.87	1.38	1.15	FH10A-23S-1SHB
24	30.2	HFH24T-ND	1.76	1.46	1.08	.90	FH10A-24S-1SHB
25	31.2	HFH25T-ND ***NEW!***	2.54	2.11	1.56	1.30	FH10A-25S-1SHB
26	32.2	HFH26T-ND	2.05	1.71	1.26	1.05	FH10A-26S-1SHB
27	33.2	HFH27T-ND ***NEW!***	2.63	2.19	1.62	1.35	FH10A-27S-1SHB
28	34.2	HFH28T-ND	2.11	1.76	1.30	1.08	FH10A-28S-1SHB
29	35.2	HFH29T-ND ***NEW!***	2.73	2.27	1.68	1.40	FH10A-29S-1SHB
30	36.2	HFH30T-ND	2.18	1.81	1.34	1.12	FH10A-30S-1SHB

OMRON

0.5mm-Pitch Slide-Lock FPC Connector

Low Profile SMT ZIF (Zero Insertion Force) Connectors Small Footprint Reduces Space on Circuit Boards



Specifications: Rated Current: 0.5A **Rated Voltage:** 50 VDC **Withstand Voltage:** 250 VAC for 1 min. **Insertion Tolerance:** 20 times.

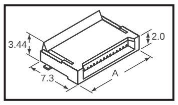
Features: • Low profile, measures 1.2 mm maximum above the board • Top and bottom contact styles have identical dimensions, utilize the same PCB layout for board design • Hold down terminal improves connection stability during soldering • Slide mechanism locks securely • Connectors supplied on tape reels for automatic insertion; color coded slide identifies top and bottom contact versions to avoid mix-ups during production.

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing		Omron Part No.
			1	25	50	100		3,000	6,000	
4	6.9	OR675CT-ND	.73	.66	.58	.53	OR675TR-ND	362.50/M	348.00/M	XF2L-0425-1
5	7.4	OR676CT-ND*	.75	.68	.60	.54	OR676TR-ND*	375.00/M	360.00/M	XF2L-0535-1
6	7.9	OR677CT-ND	.78	.70	.62	.56	OR677TR-ND	387.50/M	372.00/M	XF2L-0625-1
7	8.4	OR678CT-ND	.83	.75	.66	.60	OR678TR-ND	412.50/M	396.00/M	XF2L-0725-1
7	8.4	OR679CT-ND*	.83	.75	.66	.60	OR679TR-ND*	412.50/M	396.00/M	XF2L-0735-1
8	8.9	OR680CT-ND	.85	.77	.68	.62	OR680TR-ND	425.00/M	408.00/M	XF2L-0825-1
8	8.9	OR681CT-ND*	.85	.77	.68	.62	OR681TR-ND*	425.00/M	408.00/M	XF2L-0835-1
10	9.9	OR682CT-ND	.93	.84	.74	.67	OR682TR-ND	462.50/M	444.00/M	XF2L-1025-1
12	10.9	OR683CT-ND*	.98	.88	.78	.71	OR683TR-ND*	487.50/M	468.00/M	XF2L-1235-1
13	11.4	OR684CT-ND	1.03	.93	.82	.74	OR684TR-ND	512.50/M	492.00/M	XF2L-1325-1
13	11.4	OR685CT-ND*	1.03	.93	.82	.74	OR685TR-ND*	512.50/M	492.00/M	XF2L-1335-1
15	12.4	OR686CT-ND*	1.05	.95	.84	.76	OR686TR-ND*	525.00/M	504.00/M	XF2L-1535-1
18	13.9	OR687CT-ND*	1.23	1.11	.98	.89	OR687TR-ND*	612.50/M	588.00/M	XF2L-1835-1
20	14.9	OR688CT-ND*	1.25	1.13	1.00	.90	OR688TR-ND*	625.00/M	600.00/M	XF2L-2035-1
21	15.4	OR689CT-ND	1.30	1.17	1.04	.94	OR689TR-ND	650.00/M	624.00/M	XF2L-2125-1
22	15.9	OR690CT-ND*	1.33	1.20	1.06	.96	OR690TR-ND*	662.50/M	636.00/M	XF2L-2235-1
26	17.9	OR691CT-ND	1.45	1.31	1.16	1.05	OR691TR-ND	725.00/M	696.00/M	XF2L-2625-1
30	19.9	OR692CT-ND	1.60	1.44	1.28	1.16	OR692TR-ND	800.00/M	768.00/M	XF2L-3025-1
30	19.9	OR693CT-ND*	1.60	1.44	1.28	1.16	OR693TR-ND*	800.00/M	768.00/M	XF2L-3035-1

* Bottom Contact Type

0.5mm-Pitch Rotary-Lock FPC Connector

SMT ZIF (Zero Insertion Force) Improves Assembly Reliability and Manufacturing Efficiency



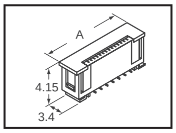
Specifications: Rated Current: 0.5A, **Rated Voltage:** 50 VDC, **Withstand Voltage:** 250 VAC for 1 min., **Insertion Tolerance:** 20 times.

Features: • Rotary-lock at rear instead of front simplifies assembly, provides secure connection even if cable flexes upward • FPC housing design ensures reliable alignment of circuits during assembly, unaffected by rotary-lock • Double-sided contacts can be used wherever top or bottom connection is needed, reducing part numbers on bill of materials • Connector is supplied with rotary-lock in the open position, eliminating a step during assembly, improving productivity • Low profile, measures only 2mm maximum above the circuit board.

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing		Omron Part No.
			1	25	50	100		1,500	6,000	
10	9.1	OR639CT-ND	.85	.77	.68	.62	OR639TR-ND	425.00/M	408.00/M	XF2H-1015-1
12	10.1	OR640CT-ND	.90	.81	.72	.65	OR640TR-ND	450.00/M	432.00/M	XF2H-1215-1
13	10.6	OR641CT-ND	.95	.86	.76	.69	OR641TR-ND	475.00/M	456.00/M	XF2H-1315-1
14	11.1	OR642CT-ND	1.03	.93	.82	.74	OR642TR-ND	512.50/M	492.00/M	XF2H-1415-1
18	13.1	OR643CT-ND	1.08	.97	.86	.78	OR643TR-ND	537.50/M	516.00/M	XF2H-1815-1
20	14.1	OR644CT-ND	1.13	1.02	.90	.81	OR644TR-ND	562.50/M	540.00/M	XF2H-2015-1
21	14.6	OR645CT-ND	1.18	1.06	.94	.85	OR645TR-ND	587.50/M	564.00/M	XF2H-2115-1
22	15.1	OR646CT-ND	1.20	1.08	.96	.87	OR646TR-ND	600.00/M	576.00/M	XF2H-2215-1
24	16.1	OR647CT-ND	1.25	1.13	1.00	.90	OR647TR-ND	625.00/M	600.00/M	XF2H-2415-1
26	17.1	OR648CT-ND	1.33	1.20	1.06	.96	OR648TR-ND	662.50/M	636.00/M	XF2H-2615-1
30	19.1	OR649CT-ND	1.38	1.24	1.10	.99	OR649TR-ND	687.50/M	660.00/M	XF2H-3015-1
32	20.1	OR650CT-ND	1.43	1.29	1.14	1.03	OR650TR-ND	712.50/M	684.00/M	XF2H-3215-1
33	20.6	OR651CT-ND	1.50	1.35	1.20	1.08	OR651TR-ND	750.00/M	720.00/M	XF2H-3315-1
34	21.1	OR652CT-ND	1.55	1.40	1.24	1.12	OR652TR-ND	775.00/M	744.00/M	XF2H-3415-1
35	21.6	OR653CT-ND	1.60	1.44	1.28	1.16	OR653TR-ND	800.00/M	768.00/M	XF2H-3515-1
36	22.1	OR654CT-ND	1.63	1.47	1.30	1.17	OR654TR-ND	812.50/M	780.00/M	XF2H-3615-1
38	23.1	OR655CT-ND	1.65	1.49	1.32	1.19	OR655TR-ND	825.00/M	792.00/M	XF2H-3815-1
40	24.1	OR656CT-ND	1.68	1.51	1.34	1.21	OR656TR-ND	837.50/M	804.00/M	XF2H-4015-1
45	26.6	OR657CT-ND	1.78	1.60	1.42	1.28	OR657TR-ND	887.50/M	852.00/M	XF2H-4515-1
50	29.1	OR658CT-ND	1.85	1.67	1.48	1.34	OR658TR-ND	925.00/M	888.00/M	XF2H-5015-1

0.5mm-Pitch Vertical Slide-Lock FPC Connector

SMT ZIF (Zero Insertion Force) Connector with Low Profile, Top Entry Ideal for Automated Assembly Processes



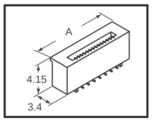
Specifications: Rated Current: 0.5A, **Rated Voltage:** 50 VDC, **Withstand Voltage:** 250VAC for 1 min., **Insertion Tolerance:** 30 times.

Features: • Enlarged surface area on slide bar makes automatic assembly easier • Vertical slide mechanism locks flex circuit securely in place • Low-profile, measures only 4.15 mm above the circuit board • Hold down terminal improves connection stability during soldering • Connectors supplied on tape reels for automatic insertion.

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing		Omron Part No.
			1	25	50	100		1,000	5,000	
6	7.5	OR659CT-ND	.58	.52	.46	.42	OR659TR-ND	287.50	276.00/M	XF2J-0624-11
8	8.5	OR660CT-ND	.68	.61	.54	.49	OR660TR-ND	337.50	324.00/M	XF2J-0824-11
10	9.5	OR661CT-ND	.73	.66	.58	.53	OR661TR-ND	362.50	348.00/M	XF2J-1024-11
12	10.5	OR662CT-ND	.80	.72	.64	.58	OR662TR-ND	400.00	384.00/M	XF2J-1224-11
14	11.5	OR663CT-ND	.88	.79	.70	.63	OR663TR-ND	437.50	420.00/M	XF2J-1424-11
16	12.5	OR664CT-ND	.93	.84	.74	.67	OR664TR-ND	462.50	444.00/M	XF2J-1624-11
18	13.5	OR665CT-ND	.98	.88	.78	.71	OR665TR-ND	487.50	468.00/M	XF2J-1824-11
20	14.5	OR666CT-ND	1.03	.93	.82	.74	OR666TR-ND	512.50	492.00/M	XF2J-2024-11
22	15.5	OR667CT-ND	1.05	.95	.84	.76	OR667TR-ND	525.00	504.00/M	XF2J-2224-11
24	16.5	OR668CT-ND	1.13	1.02	.90	.81	OR668TR-ND	562.50	540.00/M	XF2J-2424-11
26	17.5	OR669CT-ND	1.20	1.08	.96	.87	OR669TR-ND	600.00	576.00/M	XF2J-2624-11
28	18.5	OR670CT-ND	1.25	1.13	1.00	.90	OR670TR-ND	625.00	600.00/M	XF2J-2824-11
30	19.5	OR671CT-ND	1.30	1.17	1.04	.94	OR671TR-ND	650.00	624.00/M	XF2J-3024-11

0.5mm-Pitch Vertical FPC Connector

SMT Non-ZIF (Zero Insertion Force) Connector Offers a Low-Cost Top Entry Alternative to Locking Type



Specifications: Rated Current: 0.5A, **Rated Voltage:** 50VDC, **Withstand Voltage:** 250 VAC for 1 min., **Insertion Tolerance:** 10 times

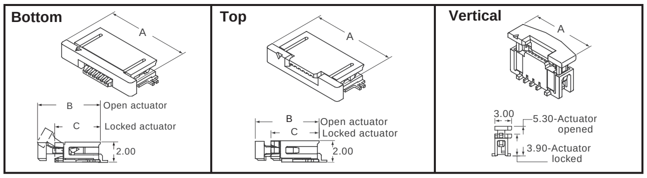
Features: • Enlarged top surface area makes automatic assembly easier • Low profile • Measures only 4.15mm above the circuit board • Hold-down terminal improves connection stability during soldering • Connectors supplied on tape reels for automatic insertion

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing		Omron Part No.
			1	25	50	100		1,000	5,000	
6	4.9	OR672CT-ND	.40	.36	.32	.29	OR672TR-ND	200.00	192.00/M	XF2G-0614-11
14	8.9	OR673CT-ND	.60	.54	.48	.44	OR673TR-ND	300.00	288.00/M	XF2G-1414-11
16	9.9	OR674CT-ND	.70	.63	.56	.51	OR674TR-ND	350.00	336.00/M	XF2G-1614-11

molex Waldom ELECTRONICS

0.5mm FFC/FPC Connector

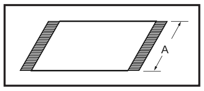
Specifications: Electrical: • Voltage: 50V • Current: 0.5A • Contact Restiance: 20m ohm max. • Dielectric Withstanding Voltage: 250V AC/1 min. • Insulation Resistance: 50M ohm min. **Physical:** • Housing: 4/6 nylon, UL 94V-0 • Actuator: PPS, UL 94V-0 • Contact: Phosphor Bronze • Plating: Tin • Solder Tabs: Phosphor Bronze, Tin plating • Operating Temp: -20 to +85°C



No. of Pos.	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing*		Molex Part No.
					1	10	100	Size	Price	
Bottom Contact Style										
6	9.10	5.9	4.3	WM5678CT-ND	1.47	1.26	.99	1,000	572.08	52746-0690
10	11.10	5.9	4.3	WM5679CT-ND	2.07	1.77	1.38	1,000	803.58	52746-1090
20	16.10	5.9	4.3	WM5680CT-ND	3.20	2.74	2.14	1,000	1242.66	52746-2090
24	18.60	6.1	4.5	WM5681CT-ND	3.83	3.28	2.55	1,000	1487.52	52437-2491
30	21.60	6.1	4.5	WM5682CT-ND	4.16	3.57	2.78	1,000	1619.22	52437-3091
36	23.50	6.55	5.0	WM5683CT-ND	4.77	4.08	3.18	1,500	1854.64/M	54132-3692
40	25.50	6.55	5.0	WM5684CT-ND	5.14	4.40	3.43	1,500	1998.58/M	54132-4092
50	30.50	6.55	5.0	WM5685CT-ND	5.56	4.76	3.71	1,500	2160.88/M	54132-5092
Top Contact Style										
6	9.10	5.7	4.3	WM5686CT-ND	.93	.80	.63	1,000	363.58	52745-0690
10	11.10	5.7	4.3	WM5687CT-ND	1.45	1.24	.97	1,000	562.63	52745-1090
20	16.10	5.7	4.3	WM5688CT-ND	1.99	1.70	1.33	1,000	772.05	52745-2090
24	18.60	5.9	4.5	WM5689CT-ND	3.03	2.60	2.03	1,000	1179.05	52435-2491
30	21.60	5.9	4.5	WM5690CT-ND	3.20	2.74	2.14	1,000	1245.07	52435-3091
40	25.50	6.55	5.0	WM5691CT-ND	3.76	3.22	2.51	1,500	1461.01/M	54104-4092
50	30.50	6.55	5.0	WM5692CT-ND	4.10	3.51	2.74	1,500	1594.18/M	54104-5092
Vertical Contact Style										
6	8.70	—	—	WM5693CT-ND	1.51	1.29	1.01	1,000	585.45	52559-0692
10	10.70	—	—	WM5694CT-ND	2.21	1.90	1.48	1,000	860.91	52559-1092
20	15.70	—	—	WM5695CT-ND	3.82	3.27	2.55	1,000	1484.93	52559-2092
24	17.70	—	—	WM5696CT-ND	4.22	3.61	2.82	1,000	1641.12	52559-2492
30	20.70	—	—	WM5697CT-ND	4.24	3.63	2.83	1,000	1649.29	52559-3092
36	23.70	—	—	WM5698CT-ND	4.98	4.26	3.32	1,000	1934.77	52559-3692
40	25.70	—	—	WM5699CT-ND	5.08	4.35	3.39	1,000	1977.24	52559-4092

*For Tape & Reel Part No., change CT to TR.

0.5mm Pitch Standard Length Jumper



Specifications:

Electrical: • Voltage: 30V • Current: 0.5A **Physical**: • Strip Length: 4.0mm (1.57") • Reinforcement Length: 6.00mm (.236") • Conductor Width: 0.30mm (.012") • Conductor Thickness: 0.10 mm (.004") • End Thickness: 0.30±0.05mm (.012 ±.002") • Temperature: -40 to +80°C **Reference Information**: • UL Style No. 2896 • Mates with any 0.50mm (.020") Pitch Molex FFC/FPC Connector

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Molex Part No.
			1	10	100	250	
2.00" (51mm) Unshielded Flat Flex Cable							
6	3.5	WM10200-ND	4.74	3.95	2.90	2.46	21020-0053
10	5.5	WM10201-ND	4.14	3.45	2.53	2.15	21020-0097
20	10.5	WM10202-ND	4.29	3.59	2.63	2.23	21020-0207
24	12.5	WM10203-ND	4.34	3.63	2.66	2.25	21020-0251
30	15.5	WM10204-ND	4.40	3.67	2.69	2.29	21020-0317
36	18.5	WM10205-ND	4.46	3.72	2.73	2.31	21020-0383
40	20.5	WM10206-ND	4.51	3.76	2.76	2.33	21020-0427
50	25.5	WM10207-ND	4.65	3.88	2.85	2.41	21020-0543
4.00" (102mm) Unshielded Flat Flex Cable							
6	3.5	WM10208-ND	4.21	3.52	2.58	2.18	21020-0057
10	5.5	WM10209-ND	4.66	3.89	2.85	2.41	21020-0101
20	10.5	WM10210-ND	4.92	4.10	3.01	2.56	21020-0211
24	12.5	WM10211-ND	5.02	4.19	3.07	2.60	21020-0255
30	15.5	WM10212-ND	5.17	4.32	3.17	2.68	21020-0321
36	18.8	WM10213-ND	5.33	4.44	3.26	2.76	21020-0387
40	20.5	WM10214-ND	5.44	4.53	3.33	2.81	21020-0431
50	25.5	WM10215-ND	5.69	4.74	3.48	2.95	21020-0547
6.00" (152mm) Unshielded Flat Flex Cable							
6	3.5	WM10216-ND	5.72	4.77	3.50	2.96	21020-0061
10	5.5	WM10217-ND	5.17	4.32	3.17	2.68	21020-0105
20	10.5	WM10218-ND	5.69	4.74	3.48	2.95	21020-0215
24	12.5	WM10219-ND	5.95	4.97	3.64	3.09	21020-0259
30	15.5	WM10220-ND	6.20	5.18	3.80	3.22	21020-0325
36	18.5	WM10221-ND	6.36	5.30	3.90	3.29	21020-0391
40	20.5	WM10222-ND	6.46	5.39	3.96	3.36	21020-0435
50	25.5	WM10223-ND	6.74	5.62	4.11	3.48	21020-0548

1mm FFC/FPC Connectors

Features: • **Right Angle:** For 0.30mm thick FFC/FPC. Metal solder tabs provide PCB hold-down and strain relief for SMT tails. Material: 4/6 nylon, UL 94V-0 Actuator: PPS, UL 94V-0 Contact: Phosphor Bronze. Plating: Tin Solder Tabs: Phosphor Bronze, Tin Plating Temp.: -20 to +85°C. Electrical: Volt.: 125V Current: 1.0A Contact Resistance: 20MOhm Max. Dielectric Withstanding Volt: 500V AC/1 min. • **Vertical:** For use with 0.30mm thick FFC/FPC. Tuning fork contacts assure stable, low contact resistance. Optional cable retention barbs provide cable strain relief and assure full retention of cable. Optional polarizing peg assures proper orientation to PCB and kinked outer solder tails offer PCB retention. SMT compatible. Material: Housing 4/6 nylon, UL 94V-0. Actuator: LCP, UL 94V-0. Contact: Phosphor Bronze Alloy. Plating: Tin/Lead, 90/10. Temp: -20 to +80°C. Electrical: Volt: 125V Current 1.0A. Contact Resistance: 20mOhm max. Dielectric Withstanding Volt: 500V AC/1 min. Insulation Resistance: 100MOhm min.

Fig.	No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape & Reel Pricing 1,000	Molex Part No.
Right Angle, SMT, ZIF Top Contact Style										
1	4	.405 (10.30)	WM5700CT-ND	1.15	.99	.77	.71	WM5700TR-ND	448.18	52207-0490
	6	.484 (12.30)	WM5701CT-ND	.97	.84	.65	.60	WM5701TR-ND	378.98	52207-0690
	8	.562 (14.30)	WM5702CT-ND	1.27	1.09	.85	.78	WM5702TR-ND	495.48	52207-0890
	10	.641 (16.30)	WM5703CT-ND	1.56	1.34	1.05	.96	WM5703TR-ND	607.51	52207-1090
	12	.720 (18.30)	WM5704CT-ND	1.83	1.57	1.23	1.12	WM5704TR-ND	712.13	52207-1290
	14	.799 (20.30)	WM5705CT-ND	2.08	1.79	1.39	1.28	WM5705TR-ND	809.52	52207-1490
	16	.877 (22.30)	WM5706CT-ND	2.31	1.98	1.55	1.42	WM5706TR-ND	898.94	52207-1690
	18	.956 (24.30)	WM5707CT-ND	2.54	2.17	1.70	1.55	WM5707TR-ND	986.13	52207-1890
	20	1.035 (26.30)	WM5708CT-ND	2.74	2.35	1.83	1.68	WM5708TR-ND	1065.89	52207-2090
	22	1.114 (28.30)	WM5709CT-ND	2.73	2.34	1.83	1.67	WM5709TR-ND	1061.99	52207-2290
	24	1.192 (30.30)	WM5710CT-ND	3.10	2.66	2.07	1.90	WM5710TR-ND	1205.56	52207-2490
	26	1.271 (32.30)	WM5711CT-ND	3.26	2.79	2.18	2.00	WM5711TR-ND	1267.70	52207-2690
	28	1.350 (34.30)	WM5712CT-ND	3.43	2.94	2.29	2.10	WM5712TR-ND	1332.45	52207-2890
	30	1.430 (36.30)	WM5713CT-ND	3.59	3.08	2.40	2.20	WM5713TR-ND	1397.01	52207-3090
NEW! Vertical, SMT, ZIF NEW!										
2	6	.496 (12.60)	WM5665CT-ND	1.88	1.61	1.26	1.15	WM5665TR-ND	729.94	52610-0690
	8	.575 (14.60)	WM5666CT-ND	2.24	1.92	1.50	1.37	WM5666TR-ND	870.73	52610-0890
	10	.654 (16.60)	WM5667CT-ND	2.58	2.21	1.72	1.58	WM5667TR-ND	1002.26	52610-1090
	12	.732 (18.60)	WM5668CT-ND	2.95	2.53	1.97	1.81	WM5668TR-ND	1147.51	52610-1290
	14	.811 (20.60)	WM5669CT-ND	3.28	2.81	2.19	2.01	WM5669TR-ND	1277.36	52610-1490
	16	.890 (22.60)	WM5670CT-ND	3.57	3.06	2.38	2.19	WM5670TR-ND	1387.54	52610-1690
	18	.969 (24.60)	WM5671CT-ND	3.81	3.27	2.55	2.33	WM5671TR-ND	1482.51	52610-1890
	20	1.047 (26.60)	WM5672CT-ND	4.02	3.45	2.69	2.46	WM5672TR-ND	1564.89	52610-2090
	22	1.126 (28.60)	WM5673CT-ND	4.32	3.70	2.88	2.64	WM5673TR-ND	1679.14	52610-2290
	24	1.205 (30.60)	WM5674CT-ND	4.61	3.95	3.08	2.82	WM5674TR-ND	1791.37	52610-2490
	26	1.283 (32.60)	WM5675CT-ND	4.75	4.07	3.17	2.91	WM5675TR-ND	1848.70	52610-2690
	28	1.362 (34.60)	WM5676CT-ND	5.02	4.30	3.35	3.07	WM5676TR-ND	1950.73	52610-2890
	30	1.441 (36.60)	WM5677CT-ND	5.13	4.40	3.43	3.14	WM5677TR-ND	1995.98	52610-3090

Fig. 1

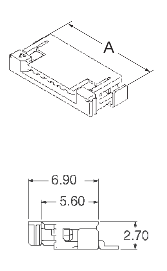


Fig. 2 *NEW!*

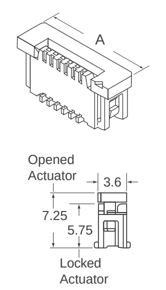


Fig. 3

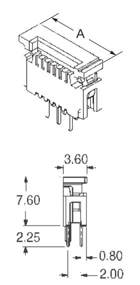
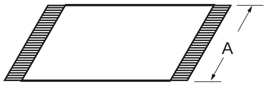


Fig.	No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
Vertical, ZIF - No Pegs								
3	4	.366 (9.30)	WM5300-ND	1.05	.86	.66	.53	71226-0425
	6	.445 (11.30)	WM5301-ND	1.26	1.02	.79	.63	71226-0625
	8	.524 (13.30)	WM5302-ND	1.46	1.19	.92	.74	71226-0825
	10	.602 (15.30)	WM5303-ND	1.67	1.36	1.05	.84	71226-1025
	12	.681 (17.30)	WM5304-ND	1.89	1.54	1.19	.95	71226-1225
	14	.760 (19.30)	WM5305-ND	2.09	1.70	1.31	1.05	71226-1425
	16	.839 (21.30)	WM5306-ND	2.30	1.87	1.44	1.15	71226-1625
	18	.917 (23.30)	WM5307-ND	2.51	2.04	1.57	1.26	71226-1825
	20	.996 (25.30)	WM5308-ND	2.72	2.21	1.70	1.36	71226-2025
	22	1.075 (27.30)	WM5309-ND	2.92	2.38	1.83	1.47	71226-2225
	24	1.154 (29.30)	WM5310-ND	3.13	2.55	1.96	1.57	71226-2425
	26	1.232 (31.30)	WM5311-ND	3.34	2.72	2.09	1.67	71226-2625
	28	1.311 (33.30)	WM5312-ND	3.55	2.89	2.23	1.78	71226-2825
	30	1.390 (35.30)	WM5313-ND	3.77	3.06	2.36	1.89	71226-3025

1.00mm (.039") Pitch Standard Length Jumpers

Features and Specifications: Molex introduces a complete line of 1.00 (.039") pitch Flat Flex Cable jumpers. These jumpers are used to connect 2 PC boards and terminate to either ZIF or Non-ZIF FFC Connectors • Reference Information: UL Style No.: 2896. Mates with: Any 1.00mm (.039") Pitch Molex FFC/FPC Connector. Designed in: Millimeters • Electrical: Voltage: 30V, Current: 1.3A • Physical: Strip Length: 4.0mm (.157"). Reinforcement Length: 8.00mm (.315"). Conductor Width: 0.70mm (.028"). Conductor Thickness: 0.10mm (.004"). End Thickness: 0.30±0.05mm (.012±.002"). Temperature: -40° to 80° C • Contacts on same side



No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
2" (5.08cm) Unshielded Flat Flex Cable							
6	7.15	WM10000-ND	2.45	2.04	1.50	1.27	21039-0203
8	9.15	WM10001-ND	2.64	2.20	1.62	1.37	21039-0225
10	11.15	WM10002-ND	2.90	2.42	1.78	1.51	21039-0247
12	13.15	WM10003-ND	3.16	2.64	1.93	1.64	21039-0269
14	15.15	WM10004-ND	3.31	2.76	2.03	1.72	21039-0291
16	17.15	WM10005-ND	3.40	2.84	2.08	1.77	21039-0313
18	19.15	WM10006-ND	3.52	2.94	2.16	1.83	21039-0335
20	21.15	WM10007-ND	3.66	3.05	2.24	1.90	21039-0357
22	23.15	WM10008-ND	3.70	3.09	2.27	1.92	21039-0379
24	25.15	WM10009-ND	3.90	3.26	2.39	2.03	21039-0401
26	27.15	WM10010-ND	3.94	3.29	2.41	2.04	21039-0423
28	29.15	WM10011-ND	3.96	3.31	2.43	2.06	21039-0445
30	31.15	WM10012-ND	4.00	3.33	2.45	2.07	21039-0467
3" (7.62cm) Unshielded Flat Flex Cable							
6	7.15	WM10013-ND	2.64	2.20	1.62	1.37	21039-0205
8	9.15	WM10014-ND	2.90	2.42	1.78	1.51	21039-0227
10	11.15	WM10015-ND	3.12	2.60	1.91	1.62	21039-0249
12	13.15	WM10016-ND	3.42	2.85	2.09	1.77	21039-0271
14	15.15	WM10017-ND	3.36	2.80	2.06	1.74	21039-0293
16	17.15	WM10018-ND	3.47	2.90	2.13	1.80	21039-0315
18	19.15	WM10019-ND	3.63	3.03	2.22	1.88	21039-0337
20	21.15	WM10020-ND	3.82	3.19	2.34	1.98	21039-0359
22	23.15	WM10021-ND	3.87	3.23	2.37	2.01	21039-0381
24	25.15	WM10022-ND	4.14	3.45	2.53	2.15	21039-0403
26	27.15	WM10023-ND	4.18	3.49	2.56	2.17	21039-0425
28	29.15	WM10024-ND	4.22	3.52	2.58	2.19	21039-0447
30	31.15	WM10025-ND	4.26	3.55	2.61	2.21	21039-0469
4" (10.16cm) Unshielded Flat Flex Cable							
6	7.15	WM10026-ND	2.77	2.31	1.70	1.44	21039-0207
8	9.15	WM10027-ND	2.91	2.43	1.78	1.51	21039-0229
10	11.15	WM10028-ND	3.04	2.54	1.86	1.58	21039-0251
12	13.15	WM10029-ND	3.20	2.67	1.96	1.66	21039-0273
14	15.15	WM10030-ND	3.33	2.78	2.04	1.73	21039-0295
16	17.15	WM10031-ND	3.47	2.90	2.13	1.80	21039-0317
18	19.15	WM10032-ND	3.65	3.05	2.24	1.90	21039-0339
20	21.15	WM10033-ND	3.89	3.24	2.38	2.02	21039-0361
22	23.15	WM10034-ND	3.93	3.28	2.41	2.04	21039-0383
24	25.15	WM10035-ND	4.26	3.55	2.61	2.21	21039-0405
26	27.15	WM10036-ND	4.30	3.59	2.64	2.23	21039-0427
28	29.15	WM10037-ND	4.36	3.63	2.67	2.26	21039-0449
30	31.15	WM10038-ND	4.40	3.67	2.69	2.28	21039-0471
5" (12.70cm) Unshielded Flat Flex Cable							
6	7.15	WM10039-ND	2.76	2.30	1.69	1.43	21039-0209
8	9.15	WM10040-ND	2.91	2.43	1.78	1.51	21039-0231
10	11.15	WM10041-ND	3.06	2.55	1.88	1.59	21039-0253
12	13.15	WM10042-ND	3.24	2.71	1.99	1.68	21039-0275
14	15.15	WM10043-ND	3.40	2.83	2.08	1.76	21039-0297
16	17.15	WM10044-ND	3.56	2.97	2.18	1.85	21039-0319
18	19.15	WM10045-ND	3.77	3.15	2.31	1.96	21039-0341
20	21.15	WM10046-ND	4.04	3.37	2.47	2.10	21039-0363
22	23.15	WM10047-ND	4.10	3.42	2.51	2.13	21039-0385
24	25.15	WM10048-ND	4.49	3.74	2.75	2.33	21039-0407
26	27.15	WM10049-ND	4.54	3.78	2.78	2.35	21039-0429
28	29.15	WM10050-ND	4.59	3.83	2.81	2.38	21039-0451
30	31.15	WM10051-ND	4.64	3.87	2.84	2.41	21039-0473

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
6" (15.24cm) Unshielded Flat Flex Cable							
6	7.15	WM10052-ND	2.83	2.36	1.73	1.47	21039-0211
8	9.15	WM10053-ND	2.80	2.34	1.72	1.46	21039-0233
10	11.15	WM10054-ND	3.18	2.66	1.95	1.65	21039-0255
12	13.15	WM10055-ND	3.40	2.83	2.08	1.76	21039-0277
14	15.15	WM10056-ND	3.57	2.98	2.19	1.85	21039-0299
16	17.15	WM10057-ND	3.76	3.14	2.30	1.95	21039-0321
18	19.15	WM10058-ND	4.01	3.34	2.45	2.08	21039-0343
20	21.15	WM10059-ND	4.32	3.61	2.65	2.24	21039-0365
22	23.15	WM10060-ND	4.39	3.66	2.69	2.28	21039-0387
24	25.15	WM10061-ND	4.83	4.03	2.96	2.51	21039-0409
26	27.15	WM10062-ND	4.90	4.09	3.00	2.54	21039-0431
28	29.15	WM10063-ND	4.96	4.14	3.04	2.57	21039-0453
30	31.15	WM10064-ND	5.03	4.19	3.08	2.61	21039-0475
8" (20.32cm) Unshielded Flat Flex Cable							
6	7.15	WM10065-ND	3.00	2.50	1.84	1.56	21039-0215
8	9.15	WM10066-ND	3.22	2.69	1.97	1.67	21039-0237
10	11.15	WM10067-ND	3.43	2.87	2.10	1.78	21039-0259
12	13.15	WM10068-ND	3.72	3.10	2.28	1.93	21039-0281
14	15.15	WM10069-ND	3.93	3.28	2.41	2.04	21039-0303
16	17.15	WM10070-ND	4.18	3.49	2.56	2.17	21039-0325
18	19.15	WM10071-ND	4.49	3.75	2.75	2.33	21039-0347
20	21.15	WM10072-ND	4.90	4.09	3.00	2.54	21039-0369
22	23.15	WM10073-ND	4.98	4.16	3.05	2.58	21039-0391
24	25.15	WM10074-ND	5.55	4.63	3.40	2.88	21039-0413
26	27.15	WM10075-ND	5.63	4.69	3.44	2.92	21039-0435
28	29.15	WM10076-ND	5.70	4.76	3.49	2.96	21039-0457
30	31.15	WM10077-ND	5.79	4.83	3.54	3.00	21039-0479
10" (25.40cm) Unshielded Flat Flex Cable							
6	7.15	WM10078-ND	3.19	2.66	1.95	1.66	21039-0219
8	9.15	WM10079-ND	3.46	2.89	2.12	1.80	21039-0241
10	11.15	WM10080-ND	3.72	3.11	2.28	1.93	21039-0263
12	13.15	WM10081-ND	4.06	3.39	2.49	2.11	21039-0285
14	15.15	WM10082-ND	4.32	3.61	2.65	2.24	21039-0307
16	17.15	WM10083-ND	4.63	3.86	2.83	2.40	21039-0329
18	19.15	WM10084-ND	5.00	4.17	3.06	2.59	21039-0351
20	21.15	WM10085-ND	5.50	4.59	3.36	2.85	21039-0373
22	23.15	WM10086-ND	5.59	4.67	3.42	2.90	21039-0395
24	25.15	WM10087-ND	6.30	5.25	3.85	3.26	21039-0417
26	27.15	WM10088-ND	6.39	5.33	3.91	3.31	21039-0439
28	29.15	WM10089-ND	6.48	5.41	3.97	3.36	21039-0461
30	31.15	WM10090-ND	6.58	5.49	4.03	3.41	21039-0483
12" (30.48cm) Unshielded Flat Flex Cable							
6	7.15	WM10091-ND	3.39	2.83	2.08	1.76	21039-0221
8	9.15	WM10092-ND	3.70	3.09	2.27	1.92	21039-0243
10	11.15	WM10093-ND	4.01	3.34	2.45	2.08	21039-0265
12	13.15	WM10094-ND	4.40	3.67	2.69	2.28	21039-0287
14	15.15	WM10095-ND	4.72	3.94	2.89	2.45	21039-0309
16	17.15	WM10096-ND	5.07	4.23	3.11	2.63	21039-0331
18	19.15	WM10097-ND	5.52	4.61	3.38	2.86	21039-0353
20	21.15	WM10098-ND	6.10	5.09	3.73	3.16	21039-0375
22	23.15	WM10099-ND	6.22	5.19	3.81	3.22	21039-0397
24	25.15	WM10100-ND	7.05	5.88	4.31	3.66	21039-0419
26	27.15	WM10101-ND	7.16	5.97	4.38	3.71	21039-0441
28	29.15	WM10102-ND	7.26	6.06	4.44	3.77	21039-0463
30	31.15	WM10103-ND	7.38	6.15	4.51	3.83	21039-0485

Micro-Miniature 1.25mm Connectors

1.25mm CONNECTORS: Physical Specifications: • Housing: PBTP, UL 94V-0 • Temperature: -40°C to +85°C. UL File No.: E29179 CSA File No.: LR19980 **1.25mm CRIMP TERMINAL: Electrical Specifications:** • Voltage: 125V • Current: 1.0A (0.8A for 32AWG) • Contact Resistance: 20mΩ max. • Dielectric Withstanding Volt.: 250V AC/1 min. • Insulation Resistance: 100MΩ min. **Physical Specifications:** • Contact: Phosphor Bronze • Plating: Tin • Wire Range: 26 to 32 AWG • Insulation Range: 1.00mm dia. max. • Strip Length: 1.40 to 1.90mm

Fig. 1 – 1.25mm Receptacle Housing

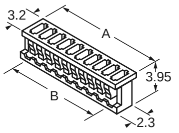


Fig. 2 – 1.25mm Straight Header

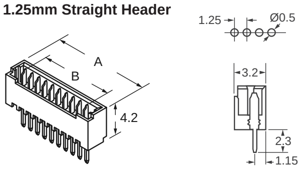


Fig. 3 – 1.25mm Right Angle Header

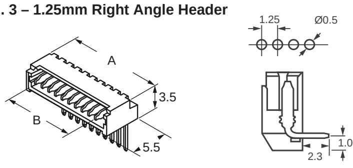


Fig. 4 – 1.25mm SMT Straight Header

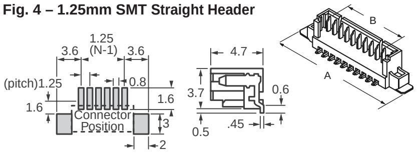


Fig. 5 – 1.25mm SMT Right Angle Header

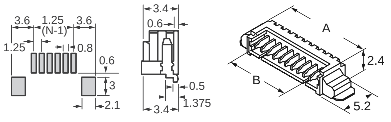
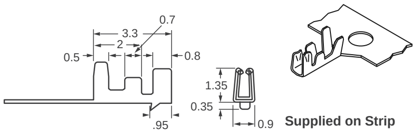


Fig. 6 – Crimp Terminal (Female)



Supplied on Strip

Fig.	Cir-cuits	Dimension (mm) A	Dimension (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Price Each 500	Molex Part No.
Receptacle Housing									
1	2	4.25	1.25	WM1720-ND	.36	.30	.22	.17	51021-0200
	3	5.50	2.50	WM1721-ND	.40	.34	.24	.19	51021-0300
	4	6.75	3.75	WM1722-ND	.45	.40	.27	.22	51021-0400
	5	8.00	5.00	WM1723-ND	.50	.45	.30	.24	51021-0500
	6	9.25	6.25	WM1724-ND	.54	.45	.33	.26	51021-0600
	7	10.50	7.50	WM1725-ND	.59	.49	.35	.28	51021-0700
	8	11.75	8.75	WM1726-ND	.63	.56	.38	.30	51021-0800
	9	13.00	10.00	WM1727-ND	.68	.61	.41	.33	51021-0900
	10	14.25	11.25	WM1728-ND	.73	.60	.43	.35	51021-1000
	11	15.50	12.50	WM1729-ND	.77	.64	.46	.37	51021-1100
	12	16.75	13.75	WM1730-ND	.82	.68	.48	.39	51021-1200
	13	18.00	15.00	WM17000-ND	.86	.76	.51	.41	51021-1300
	14	19.25	16.25	WM17001-ND	.91	.80	.54	.43	51021-1400
	15	20.50	17.50	WM17002-ND	.94	.84	.56	.45	51021-1500
Straight Header									
2	2	4.25	1.25	WM1731-ND	.44	.37	.27	.21	53047-0210
	3	5.50	2.50	WM1732-ND	.54	.48	.32	.26	53047-0310
	4	6.75	3.75	WM1733-ND	.64	.57	.38	.30	53047-0410
	5	8.00	5.00	WM1734-ND	.73	.61	.43	.35	53047-0510
	6	9.25	6.25	WM1735-ND	.84	.69	.50	.40	53047-0610
	7	10.50	7.50	WM1736-ND	1.02	.84	.60	.48	53047-0710
	8	11.75	8.75	WM1737-ND	1.05	.87	.62	.50	53047-0810
	9	13.00	10.00	WM1738-ND	1.14	1.01	.68	.54	53047-0910
	10	14.25	11.25	WM1739-ND	1.32	1.17	.78	.63	53047-1010
	11	15.50	12.50	WM1740-ND	1.44	1.27	.85	.68	53047-1110
	12	16.75	13.75	WM1741-ND	1.46	1.29	.86	.69	53047-1210
	13	18.00	15.00	WM17003-ND	1.55	1.37	.92	.74	53047-1310
	14	19.25	16.25	WM17004-ND	1.66	1.47	.98	.79	53047-1410
	15	20.50	17.50	WM17005-ND	1.76	1.56	1.04	.83	53047-1510
Right Angle Header									
3	2	4.25	1.25	WM1742-ND	.51	.45	.30	.24	53048-0210
	3	5.50	2.50	WM1743-ND	.61	.54	.36	.29	53048-0310
	4	6.75	3.75	WM1744-ND	.71	.63	.42	.34	53048-0410
	5	8.00	5.00	WM1745-ND	.89	.74	.53	.43	53048-0510
	6	9.25	6.25	WM1746-ND	.92	.82	.55	.44	53048-0610
	7	10.50	7.50	WM1747-ND	1.03	.91	.61	.49	53048-0710
	8	11.75	8.75	WM1748-ND	1.13	1.00	.67	.53	53048-0810
	9	13.00	10.00	WM1749-ND	1.24	1.09	.73	.59	53048-0910
	10	14.25	11.25	WM1750-ND	1.33	1.18	.79	.63	53048-1010
	11	15.50	12.50	WM1751-ND	1.45	1.28	.86	.69	53048-1110
3	12	16.75	13.75	WM1752-ND	1.62	1.44	.96	.77	53048-1210
	13	18.00	15.00	WM17006-ND	1.72	1.53	1.02	.82	53048-1310
	14	19.25	16.25	WM17007-ND	1.83	1.62	1.08	.87	53048-1410
	15	20.50	17.50	WM17008-ND	1.77	1.56	1.04	.84	53048-1510
SMT Straight Header									
4	2	7.65	1.25	WM1764-ND	1.32	1.17	.78	.63	53398-0290
	3	8.90	2.50	WM1765-ND	1.58	1.40	.94	.75	53398-0390
	4	10.15	3.75	WM1766-ND	1.74	1.54	1.03	.83	53398-0490
	5	11.40	5.00	WM1767-ND	1.93	1.70	1.14	.91	53398-0590
	6	12.65	6.25	WM1768-ND	2.07	1.83	1.22	.98	53398-0690
	7	13.90	7.50	WM1769-ND	2.23	1.84	1.32	1.06	53398-0790
	8	15.15	8.75	WM1770-ND	2.38	2.10	1.40	1.12	53398-0890
	9	16.40	10.00	WM1771-ND	2.54	2.25	1.50	1.20	53398-0990
	10	17.65	11.25	WM1772-ND	2.69	2.38	1.59	1.27	53398-1090
	11	18.90	12.50	WM1773-ND	2.85	2.52	1.68	1.35	53398-1190
	12	20.15	13.75	WM1774-ND	3.02	2.67	1.78	1.43	53398-1290
	13	21.40	15.00	WM17009-ND	3.22	2.85	1.90	1.52	53398-1390
	14	22.65	16.25	WM17010-ND	3.35	2.96	1.97	1.58	53398-1490
	15	23.90	17.50	WM17011-ND	3.42	2.82	2.02	1.62	53398-1590
SMT Right Angle Header									
5	2	7.65	1.25	WM1753-ND	1.39	1.23	.82	.66	53261-0290
	3	8.90	2.50	WM1754-ND	1.67	1.48	.99	.79	53261-0390
	4	10.15	3.75	WM1755-ND	1.82	1.61	1.07	.86	53261-0490
	5	11.40	5.00	WM1756-ND	1.99	1.76	1.18	.94	53261-0590
	6	12.65	6.25	WM1757-ND	2.13	1.89	1.26	1.01	53261-0690
	7	13.90	7.50	WM1758-ND	2.29	2.02	1.35	1.08	53261-0790
	8	15.15	8.75	WM1759-ND	2.42	2.14	1.43	1.14	53261-0890
	9	16.40	10.00	WM1760-ND	2.61	2.31	1.54	1.23	53261-0990
	10	17.65	11.25	WM1761-ND	2.76	2.44	1.63	1.30	53261-1090
	11	18.90	12.50	WM1762-ND	2.92	2.58	1.72	1.38	53261-1190
	12	20.15	13.75	WM1763-ND	3.08	2.72	1.82	1.45	53261-1290
	14	22.65	16.25	WM17012-ND	3.41	3.01	2.01	1.61	53261-1490
	15	23.90	17.50	WM17013-ND	3.55	3.14	2.09	1.68	53261-1590
6	Crimp Term., 28-32 AWG			WM1775-ND	—	.07	.06	.05	50058-8000
	Crimp Term., 26-28 AWG			WM1142CT-ND*	—	.06	.05	.04	50079-8000
				WM1142TR-ND†	532.50/25,000				
Prototype Crimp Tool (Molex)				WM9931-ND	180.41 each				63811-0200
Production Crimp Tool (Molex)				WM9932-ND	475.41 each				63811-0000
Contact Extraction Tool (Molex)				WM9933-ND	127.41 each				57072-6000
Housing Extraction Tool (Molex)				WM9934-ND	136.44 each				11-03-0045

⁎CT = Cut Tape. †TR = Tape and Reel.

Panel Mate 1.25mm Connectors Ultra Low Profile

Physical Specifications:
• Housing: PBTP, UL 94V-0 • Temperature: -40°C to +85°C • Contact: Phosphor Bronze • Plating: Gold (Tin/Lead on SMT tails) • Solder Tabs: Phosphor Bronze, Tin/Lead plating

Electrical Specifications:
• Voltage: 125V • Current: 1.0A • Contact Resistance: 20mΩ max. • Dielectric Withstanding Volt: 250V AC • Insulation Resistance: 100MΩ min.

Fig. 1

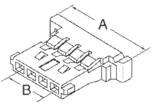


Fig. 2

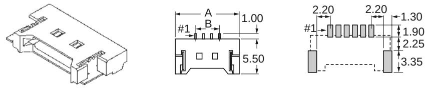


Fig.	Cir-cuits	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Receptacle Housing - Ultra Low Profile								
1	2	5.72	1.25	WM5400-ND	.44	.40	.27	51146-0200
	3	6.97	2.50	WM5401-ND	.55	.49	.33	51146-0300
	4	8.22	3.75	WM5402-ND	.66	.58	.39	51146-0400
	5	9.47	5.00	WM5403-ND	.72	.64	.43	51146-0500
	6	10.72	6.25	WM5404-ND	.83	.74	.49	51146-0600
	7	11.97	7.50	WM5405-ND	.96	.85	.57	51146-0700
	9	14.47	10.00	WM5406-ND	1.15	1.02	.68	51146-0900
	14	20.72	16.25	WM5407-ND	1.69	1.50	1.00	51146-1400

Fig.	Cir-cuits	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Right Angle, SMT 1.90mm Profile Header								
2	2	7.65	1.25	WM5500-ND	1.71	1.51	1.01	53780-0290
	3	8.90	2.50	WM5501-ND	2.37	2.10	1.40	53780-0390
	5	11.40	5.00	WM5502-ND	2.97	2.63	1.75	53780-0590
	6	12.65	6.25	WM5503-ND	3.11	2.75	1.84	53780-0690
	7	13.90	7.50	WM5504-ND	3.39	3.00	2.00	53780-0790
	9	16.40	10.00	WM5505-ND	3.66	3.24	2.16	53780-0990
Crimp Terminal AWG 28-30				WM5506-ND	.45	.40	.27	50641-8141
Hand Crimper				WM9963-ND	573.77 each			57352-5000

HIROSE ELECTRIC CO.,LTD.

DF12 Surface Mount Connectors

0.5mm Pitch

Features: • Connectors furnished with reinforcement fittings to prevent peeling of the solder joints (due to mechanical stress) are also available and these can be mounted to FPC with confidence • A specification with convenient guide posts for manual work is available as well as one without guide posts for automatic mounting.

Specifications: • Current Capacity: 0.3A/pin • Rated Voltage: 50V AC/pin • Insulation Resistance: 100V DC, 500 MΩ min. • Withstand Voltage: 1 min. at rated value, 150V AC • Contact Resistance: 100 mA DC, 50 mΩ max.

Material (receptacle/header): • Insulation: Heat-resistant resin, beige (natural), UL94V-0 • Contacts: Copper alloy with gold plating • Fittings: Copper alloy with solder plating.

Fig. 1

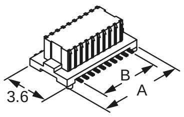


Fig. 2

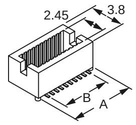


Fig. 3

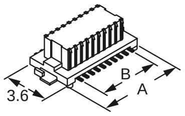


Fig. 4

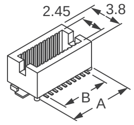


Fig.	No. of Contacts	Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Receptacles									
3mm Stacking Height									
1	32	With Guide Posts	10.1	7.5	H2735-ND	1.75	1.27	1.04	DF12A(3.0)-32DS-0.5V(80)
	50		14.6	12.0	H2736-ND	2.15	1.65	1.32	DF12A(3.0)-50DS-0.5V(80)
	60		17.1	14.5	H2737-ND	2.34	1.80	1.44	DF12A(3.0)-60DS-0.5V(80)
3mm Stacking Height									
3	32	With Guide Posts & Reinforced Fittings	11.0	7.5	H1508-ND	1.82	1.32	1.08	DF12A(3.0)-32DS-0.5V(80)
	50		15.5	12.0	H1509-ND	2.18	1.68	1.34	DF12A(3.0)-50DS-0.5V(80)
	60		18.0	14.5	H1510-ND	2.34	1.80	1.44	DF12A(3.0)-60DS-0.5V(80)
3.5 To 5.0mm Stacking Height									
1	20	With Guide Posts	7.1	4.5	H2740-ND	1.56	1.13	.93	DF12A-20DS-0.5V(80)
	30		9.6	7.0	H2741-ND	1.66	1.28	1.02	DF12A-30DS-0.5V(80)
	36		11.1	8.5	H2742-ND	1.82	1.40	1.12	DF12A-36DS-0.5V(80)
	40		12.1	9.5	H2743-ND	1.95	1.50	1.20	DF12A-40DS-0.5V(80)
	50		14.6	12.0	H2744-ND	2.21	1.70	1.36	DF12A-50DS-0.5V(80)
3	20	With Guide Posts & Reinforced Fittings	8.0	4.5	H2745-ND	1.60	1.16	.95	DF12-20DS-0.5V(80)
	30		10.5	7.0	H2746-ND	1.69	1.30	1.04	DF12-30DS-0.5V(80)
	36		12.0	8.5	H2747-ND	1.85	1.43	1.14	DF12-36DS-0.5V(80)
	40		13.0	9.5	H2748-ND	1.95	1.50	1.20	DF12-40DS-0.5V(80)
	50		15.5	12.0	H2749-ND	2.28	1.75	1.40	DF12-50DS-0.5V(80)
Headers									
3mm Stacking Height									
2	32	With Guide Posts	10.2	7.5	H2750-ND	1.69	1.30	1.04	DF12D(3.0)-32DP-0.5V(80)
	50		14.7	12.0	H2751-ND	2.18	1.68	1.34	DF12D(3.0)-50DP-0.5V(80)
	60		17.2	14.5	H2752-ND	2.41	1.85	1.48	DF12D(3.0)-60DP-0.5V(80)
4	32	With Guide Posts & Reinforced Fittings	11.0	7.5	H2753-ND	1.82	1.32	1.08	DF12(3.0)-32DP-0.5V(80)
	50		15.5	12.0	H2754-ND	2.18	1.68	1.34	DF12(3.0)-50DP-0.5V(80)
	60		18.0	14.5	H2755-ND	2.41	1.85	1.48	DF12(3.0)-60DP-0.5V(80)
3.5mm Stacking Height									
2	20	With Guide Posts	7.2	4.5	H2756-ND	1.33	.97	.79	DF12D(3.5)-20DP-0.5V(80)
	36		11.2	8.5	H2757-ND	1.72	1.33	1.06	DF12D(3.5)-36DP-0.5V(80)
	40		12.2	9.5	H2758-ND	1.85	1.43	1.14	DF12D(3.5)-40DP-0.5V(80)
	50		14.7	12.0	H2759-ND	2.18	1.68	1.34	DF12D(3.5)-50DP-0.5V(80)
4	20	With Guide Posts & Reinforced Fittings	8.0	4.5	H2760-ND	1.41	1.02	.84	DF12(3.5)-20DP-0.5V(80)
	36		12.0	8.5	H2761-ND	1.79	1.38	1.10	DF12(3.5)-36DP-0.5V(80)
	40		13.0	9.5	H2762-ND	1.92	1.48	1.18	DF12(3.5)-40DP-0.5V(80)
	50		15.5	12.0	H2763-ND	2.18	1.68	1.34	DF12(3.5)-50DP-0.5V(80)
4.0mm Stacking Height									
2	30	With Guide Posts	9.7	7.0	H2764-ND	1.82	1.32	1.08	DF12D(4.0)-30DP-0.5V(80)
	36		11.2	8.5	H2765-ND	1.72	1.33	1.06	DF12D(4.0)-36DP-0.5V(80)
	40		12.2	9.5	H2766-ND	1.85	1.43	1.14	DF12D(4.0)-40DP-0.5V(80)
	50		14.7	12.0	H2767-ND	2.18	1.68	1.34	DF12D(4.0)-50DP-0.5V(80)
4	30	With Guide Posts & Reinforced Fittings	10.5	7.0	H2768-ND	1.86	1.35	1.11	DF12(4.0)-30DP-0.5V(80)
	36		12.0	8.5	H2769-ND	1.79	1.38	1.10	DF12(4.0)-36DP-0.5V(80)
	40		13.0	9.5	H2770-ND	1.92	1.48	1.18	DF12(4.0)-40DP-0.5V(80)
	50		15.5	12.0	H2771-ND	2.18	1.68	1.34	DF12(4.0)-50DP-0.5V(80)
5.0mm Stacking Height									
2	20	With Guide Posts	7.2	4.5	H2772-ND	1.56	1.13	.93	DF12D(5.0)-20DP-0.5V(80)
	50		14.7	12.0	H2773-ND	2.44	1.88	1.50	DF12D(5.0)-50DP-0.5V(80)
4	20	With Guide Posts & Reinforced Fittings	8.0	4.5	H2774-ND	1.33	.97	.79	DF12(5.0)-20DP-0.5V
	50		15.5	12.0	H2775-ND	2.47	1.90	1.52	DF12(5.0)-50DP-0.5V

DF17 Surface Mount Connectors

0.5mm Pitch

Features: • Developed for portable electronic and mobile telecommunications equipment • Designed specifically for mobile electronic devices, these connectors withstand the shock and resist breakage and disconnection that can occur when subjected to drop impact.

Applications: Suited to a wide variety of mobile applications such as LCD-related equipment, miniature portable remote terminals, as well as portable telephones.

Specifications: • Rated Current: 0.3A • Rated Voltage: AC50 • Temperature Range: -35°C to +85°C • Storage Temperature: -10°C to +60°C • Humidity Range: 40-80% • Storage Humidity: 40-70% • Insulation Resistance: 500MΩ or more • Contact Resistance: 50mΩ or less • Vibration Resistance: No instantaneous electric disconnection of 1 µS or more • Humidity Resistance: Contact; 50mΩ or less, Insulation; 250MΩ or more • Temp. Cycle: Contact Resistance; 50mΩ or less, Insulation Resistance; 500MΩ or more • Duration Against Plugging/Unplugging: Contact resistance 50mΩ or less • Heat Resistance of Soldering: No fusion of resin section affecting performance.

Material (receptacle/header): • Insulator: Nylon resin, white, UL94V-0 • Contacts: Phosphor bronze, gold plating • Metal Fittings: Copper Alloy, solder plating.

Fig. 1

Shown with reinforced fittings

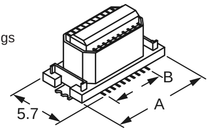


Fig. 2

Shown with reinforced fittings

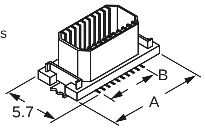


Fig.	No. of Contacts	Description	Dim. (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R* Pricing 1,000	Hirose Part No.
Receptacles										
3mm Stacking Height										
1	20	With Guide Posts & Without Reinforced Fittings	8.2	4.5	H2354CT-ND	1.67	1.21	.99	585.00	DF17A(3.0)-20DS-0.5V(51)
	30		10.7	7.0	H2355CT-ND	1.79	1.38	1.10	732.00	DF17A(3.0)-30DS-0.5V(51)
	40		13.2	9.5	H2356CT-ND	2.11	1.63	1.30	865.00	DF17A(3.0)-40DS-0.5V(51)
	50		15.7	12.0	H2357CT-ND	2.44	1.88	1.50	998.00	DF17A(3.0)-50DS-0.5V(51)
	60		18.2	14.5	H2358CT-ND	2.80	2.15	1.72	1144.00	DF17A(3.0)-60DS-0.5V(51)
	70		20.7	17.0	H2359CT-ND	3.15	2.43	1.94	1290.00	DF17A(3.0)-70DS-0.5V(51)
	80		23.2	19.5	H2360CT-ND	3.10	2.41	1.93	1391.00	DF17A(3.0)-80DS-0.5V(51)
4mm Stacking Height										
1	20	With Guide Posts & Without Reinforced Fittings	8.2	4.5	H2361CT-ND	1.63	1.19	.97	572.00	DF17A(4.0)-20DS-0.5V(51)
	30		10.7	7.0	H2362CT-ND	1.69	1.30	1.04	692.00	DF17A(4.0)-30DS-0.5V(51)
	40		13.2	9.5	H2363CT-ND	2.02	1.55	1.24	825.00	DF17A(4.0)-40DS-0.5V(51)
	50		15.7	12.0	H2364CT-ND	1.63	1.19	.97	572.00	DF17A(4.0)-50DS-0.5V(51)
	60		18.2	14.5	H2365CT-ND	1.69	1.30	1.04	692.00	DF17A(4.0)-60DS-0.5V(51)
	70		20.7	17.0	H2303CT-ND	3.13	2.43	1.95	1404.00	DF17A(4.0)-70DS-0.5V(51)
	80		23.2	19.5	H2366CT-ND	2.90	2.25	1.80	1300.00	DF17A(4.0)-80DS-0.5V(51)
3mm Stacking Height										
1	20	With Guide Posts & With Reinforced Fittings	10.0	4.5	H2367CT-ND	1.75	1.27	1.04	612.00	DF17(3.0)-20DS-0.5V(51)
	30		12.5	7.0	H2368CT-ND	1.82	1.40	1.12	745.00	DF17(3.0)-30DS-0.5V(51)
	40		15.0	9.5	H2369CT-ND	2.15	1.65	1.32	878.00	DF17(3.0)-40DS-0.5V(51)
	50		17.5	12.0	H2370CT-ND	2.50	1.93	1.54	1024.00	DF17(3.0)-50DS-0.5V(51)
	60		20.0	14.5	H2371CT-ND	2.83	2.18	1.74	1157.00	DF17(3.0)-60DS-0.5V(51)
	70		22.5	17.0	H2372CT-ND	3.19	2.45	1.96	1303.00	DF17(3.0)-70DS-0.5V(51)
	80		25.0	19.5	H2373CT-ND	3.13	2.43	1.95	1404.00	DF17(3.0)-80DS-0.5V(51)
4mm Stacking Height										
1	20	With Guide Posts & With Reinforced Fittings	10.0	4.5	H2374CT-ND	1.67	1.21	.99	585.00	DF17(4.0)-20DS-0.5V(51)
	30		12.5	7.0	H2375CT-ND	1.76	1.35	1.08	718.00	DF17(4.0)-30DS-0.5V(51)
	40		15.0	9.5	H2376CT-ND	2.05	1.58	1.26	838.00	DF17(4.0)-40DS-0.5V(51)
	50		17.5	12.0	H2377CT-ND	2.34	1.80	1.44	958.00	DF17(4.0)-50DS-0.5V(51)
	60		20.0	14.5	H2378CT-ND	2.67	2.05	1.64	1091.00	DF17(4.0)-60DS-0.5V(51)
	80		25.0	19.5	H2379CT-ND	2.93	2.28	1.82	1313.00	DF17(4.0)-80DS-0.5V(51)
Headers										
2mm Stacking Height										
2	20	With Guide Posts & Without Reinforced Fittings	8.2	4.5	H2380CT-ND	1.79	1.30	1.06	625.00	DF17A(2.0)-20DP-0.5V(51)
	30		10.7	7.0	H2381CT-ND	1.89	1.45	1.16	771.00	DF17A(2.0)-30DP-0.5V(51)
	40		13.2	9.5	H2382CT-ND	2.24	1.73	1.38	918.00	DF17A(2.0)-40DP-0.5V(51)
	50		15.7	12.0	H2383CT-ND	2.60	2.00	1.60	1064.00	DF17A(2.0)-50DP-0.5V(51)
	60		18.2	14.5	H2384CT-ND	2.96	2.28	1.82	1210.00	DF17A(2.0)-60DP-0.5V(51)
	70		20.7	17.0	H2385CT-ND	2.99	2.32	1.86	1339.00	DF17A(2.0)-70DP-0.5V(51)
	80		23.2	19.5	H2386CT-ND	3.31	2.57	2.06	1482.00	DF17A(2.0)-80DP-0.5V(51)
4mm Stacking Height										
2	20	With Guide Posts & Without Reinforced Fittings	8.2	4.5	H2387CT-ND	1.86	1.35	1.11	652.00	DF17A(4.0)-20DP-0.5V(51)
	30		10.7	7.0	H2388CT-ND	1.95	1.50	1.20	798.00	DF17A(4.0)-30DP-0.5V(51)
	40		13.2	9.5	H2389CT-ND	2.34	1.80	1.44	958.00	DF17A(4.0)-40DP-0.5V(51)
	50		15.7	12.0	H2390CT-ND	2.86	2.20	1.76	1170.00	DF17A(4.0)-50DP-0.5V(51)
	60		18.2	14.5	H2391CT-ND	2.96	2.28	1.82	1210.00	DF17A(4.0)-60DP-0.5V(51)
	70		20.7	17.0	H2392CT-ND	3.13	2.43	1.95	1404.00	DF17A(4.0)-70DP-0.5V(51)
	80		23.2	19.5	H2393CT-ND	3.45	2.68	2.15	1547.00	DF17A(4.0)-80DP-0.5V(51)
2mm Stacking Height										
2	20	With Guide Posts & With Reinforced Fittings	10.0	4.5	H2394CT-ND	1.86	1.35	1.11	652.00	DF17(2.0)-20DP-0.5V(51)
	30		12.5	7.0	H2395CT-ND	1.95	1.50	1.20	798.00	DF17(2.0)-30DP-0.5V(51)
	40		15.0	9.5	H2396CT-ND	2.31	1.78	1.42	944.00	DF17(2.0)-40DP-0.5V(51)
	50		17.5	12.0	H2397CT-ND	2.67	2.05	1.64	1091.00	DF17(2.0)-50DP-0.5V(51)
	60		20.0	14.5	H2398CT-ND	3.02	2.33	1.86	1237.00	DF17(2.0)-60DP-0.5V(51)
	70		22.5	17.0	H2399CT-ND	3.02	2.34	1.88	1352.00	DF17(2.0)-70DP-0.5V(51)
	80		25.0	19.5	H2400CT-ND	3.34	2.59	2.07	1495.00	DF17(2.0)-80DP-0.5V(51)
4mm Stacking Height										
2	20	With Guide Posts & With Reinforced Fittings	10.0	4.5	H2401CT-ND	1.63	1.25	1.00	665.00	DF17(4.0)-20DP-0.5V(51)
	30		12.5	7.0	H2402CT-ND	2.02	1.55	1.24	825.00	DF17(4.0)-30DP-0.5V(51)
	40		15.0	9.5	H2403CT-ND	2.37	1.83	1.46	971.00	DF17(4.0)-40DP-0.5V(51)
	50		17.5	12.0	H2404CT-ND	2.93	2.25	1.80	1197.00	DF17(4.0)-50DP-0.5V(51)
	60		20.0	14.5	H2405CT-ND	3.12	2.40	1.92	1277.00	DF17(4.0)-60DP-0.5V(51)
	70		22.5	17.0	H2406CT-ND	3.16	2.46	1.97	1417.00	DF17(4.0)-70DP-0.5V(51)
	80		25.0	19.5	H2407CT-ND	3.51	2.73	2.18	1573.00	DF17(4.0)-80DP-0.5V(51)

* For Tape and Reel Part No., change “CT-ND” to “TR-ND”.

HIROSE ELECTRIC CO.,LTD.

FX10A Series - Surface Mount

0.5mm Conn. with Ground Plate for Board-to-Board Connectors

Features: Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle.

Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise. Suited to high-density applications. The single contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting. Board-to-Board dimensions of 4mm and 5mm are available.

Materials: • Insulator: LCP resin, Beige, UL94V-0 • Contacts: Phosphor bronze • Header Engagement Area: Gold plating of 0.1µm • Termination Area: Solder plating • Receptacle Engagement Area: Gold plating of 0.1m • Termination Area: Flash plating Ground plate: Phosphor bronze, solder plating • Reinforced fitting: Phosphor bronze, Tin plating

Electrical: • Rated current: 0.3A • Operating temp.: range -55 to +85°C • Rated voltage: 50 V AC • Operating humidity range: Relative humidity 95% or less (No condensation)

Note: The thickness of the solder paste is not included in the stack height.

Fig. 1

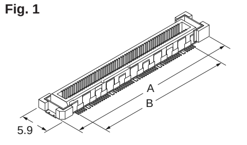


Fig. 2

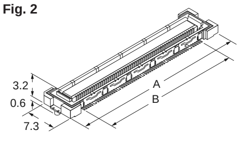


Fig.	Mounting Height	No. of Contacts Signal	Ground	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.	Digi-Key Part No.	T&R Pricing 1,000	Hirose Part No.
Headers													
With Guidepost													
1	4mm	80	8	31.1	23.5	H2476-ND	5.94	4.76	3.68	FX10A- 80P/8-SV	H2476TR-ND	2288.00	FX10A- 80P/8-SV(21)
		100	10	37.1	29.5	H2477-ND	6.57	5.26	4.07	FX10A-100P/10-SV	H2477TR-ND	2535.00	FX10A-100P/10-SV(21)
		120	12	43.1	35.5	H2478-ND	4.43	3.55	2.74	FX10A-120P/12-SV	H2478TR-ND	2769.00	FX10A-120P/12-SV(21)
		140	14	49.1	41.5	H2479-ND	7.13	5.99	4.71	FX10A-140P/14-SV	H2479TR-ND	3042.00	FX10A-140P/14-SV(21)
	5mm	80	8	31.1	23.5	H2484-ND	5.94	4.76	3.68	FX10A- 80P/8-SV1	H2484TR-ND	2288.00	FX10A- 80P/8-SV1(21)
		100	10	37.1	29.5	H2485-ND	6.57	5.26	4.07	FX10A-100P/10-SV1	H2485TR-ND	2535.00	FX10A-100P/10-SV1(21)
		120	12	43.1	35.5	H2486-ND	6.53	5.49	4.31	FX10A-120P/12-SV1	H2486TR-ND	2769.00	FX10A-120P/12-SV1(21)
		140	14	49.1	41.5	H2487-ND	7.13	5.99	4.71	FX10A-140P/14-SV1	H2487TR-ND	3042.00	FX10A-140P/14-SV1(21)
Without Guidepost													
1	4mm	80	8	31.1	23.5	H2480-ND	5.94	4.76	3.68	FX10B- 80P/8-SV	H2480TR-ND	2288.00	FX10B- 80P/8-SV(21)
		100	10	37.1	29.5	H2481-ND	6.57	5.26	4.07	FX10B-100P/10-SV	H2481TR-ND	2535.00	FX10B-100P/10-SV(21)
		120	12	43.1	35.5	H2482-ND	6.53	5.49	4.31	FX10B-120P/12-SV	H2482TR-ND	2769.00	FX10B-120P/12-SV(21)
		140	14	49.1	41.5	H2483-ND	7.13	5.99	4.71	FX10B-140P/14-SV	H2483TR-ND	3029.00	FX10B-140P/14-SV(21)
	5mm	80	8	31.1	23.5	H2488-ND	5.94	4.76	3.68	FX10B- 80P/8-SV1	H2488TR-ND	2288.00	FX10B- 80P/8-SV1(21)
		100	10	37.1	29.5	H2489-ND	6.57	5.26	4.07	FX10B-100P/10-SV1	H2489TR-ND	2535.00	FX10B-100P/10-SV1(21)
		120	12	43.1	35.5	H2490-ND	6.53	5.49	4.31	FX10B-120P/12-SV1	H2490TR-ND	2769.00	FX10B-120P/12-SV1(21)
		140	14	49.1	41.5	H2491-ND	7.13	5.99	4.71	FX10B-140P/14-SV1	H2491TR-ND	3042.00	FX10B-140P/14-SV1(21)
Receptacles													
With Guidepost													
2	—	80	8	31.1	23.5	H2468-ND	5.97	4.78	3.69	FX10A-80S/8-SV	H2468TR-ND	2314.00	FX10A-80S/8-SV(21)
		100	10	37.1	29.5	H2469-ND	6.68	5.35	4.14	FX10A-100S/10-SV	H2469TR-ND	2574.00	FX10A-100S/10-SV(21)
		120	12	43.1	35.5	H2470-ND	6.80	5.72	4.49	FX10A-120S/12-SV	H2470TR-ND	2873.00	FX10A-120S/12-SV(21)
		140	14	49.1	41.5	H2471-ND	7.48	6.28	4.94	FX10A-140S/14-SV	H2471TR-ND	3172.00	FX10A-140S/14-SV(21)
Without Guidepost													
2	—	80	8	31.1	23.5	H2472-ND	5.97	4.78	3.69	FX10B- 80S/8-SV	H2472TR-ND	2314.00	FX10B- 80S/8-SV(21)
		100	10	37.1	29.5	H2473-ND	6.68	5.35	4.14	FX10B-100S/10-SV	H2473TR-ND	2574.00	FX10B-100S/10-SV(21)
		120	12	43.1	35.5	H2474-ND	6.71	5.37	4.15	FX10B-120S/12-SV	H2474TR-ND	2873.00	FX10B-120S/12-SV(21)
		140	14	49.1	41.5	H2475-ND	7.48	6.28	4.94	FX10B-140S/14-SV	H2475TR-ND	3172.00	FX10B-140S/14-SV(21)

HIROSE ELECTRIC CO.,LTD.

FX11L Series -Surface Mount

0.5mm Conn. with Ground Plate for2mm Board-to-Board Connections

Features: Low Profile Design. The board-to-board mating height of 2mm suits smaller, thinner case designs. Improved transmission efficiency between boards. Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle. Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise. Suited to High-Density Applications. The signal contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting.

Applications: Notebook computers, PDA, and other miniature electronic equipment.

Material: • Insulator: LCP resin, Beige, UL94V-0 • Contacts: Copper alloy • Header: Phosphor bronze • Receptacle: Engagement area: Gold plating of 0.1 µm Termination Area: Flash plating Ground plate: Phosphor bronze solder plating • Reinforced fitting/plate: Phosphor bronze, Tin plating

Electrical: • Rated current: 0.3 A, operating temperature range -55 to 80°C • Rated voltage: 50 V AC • Operating humidity range: Relative humidity 95% or less (No condensation)

Fig.1

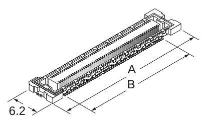


Fig. 2

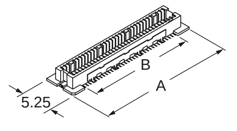


Fig.	No. of Contacts Signal	Ground	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Headers									
With Ground Plate and Guideposts									
2	60	6	22.6	17.5	H2517-ND	4.29	3.44	2.66	FX11LA-60P/6-SV
	80	8	28.6	23.5	H2518-ND	4.76	3.81	2.95	FX11LA-80P/8-SV
	100	10	34.6	29.5	H2519-ND	5.23	4.18	3.23	FX11LA-100P/10-SV
	120	12	40.6	35.5	H2520-ND	5.72	4.58	3.54	FX11LA-120P/12-SV
With Ground Plate, without Guideposts									
2	60	6	22.6	17.5	H2521-ND	4.29	3.44	2.66	FX11LB-60P/6-SV
	80	8	28.6	23.5	H2522-ND	4.76	3.81	2.95	FX11LB-80P/8-SV
	100	10	34.6	29.5	H2523-ND	5.23	4.18	3.23	FX11LB-100P/10-SV
	120	12	40.6	35.5	H2524-ND	5.72	4.58	3.54	FX11LB-120P/12-SV
Without Ground Plate, With Guideposts									
2	68	–	22.6	16.5	H2533-ND	3.38	2.71	2.10	FX11LA-68P-SV
	92	–	28.6	22.5	H2534-ND	3.80	3.04	2.35	FX11LA-92P-SV
	116	–	34.6	28.5	H2535-ND	4.18	3.35	2.59	FX11LA-116P-SV
	140	–	40.6	34.5	H2536-ND	4.59	3.68	2.84	FX11LA-140P-SV
Without Ground Plate and Guideposts									
2	68	–	22.6	16.5	H2537-ND	3.38	2.71	2.10	FX11LB-68P-SV
	92	–	28.6	22.5	H2538-ND	3.80	3.04	2.35	FX11LB-92P-SV
	116	–	34.6	28.5	H2539-ND	4.18	3.35	2.59	FX11LB-116P-SV
	140	–	40.6	34.5	H2540-ND	4.59	3.68	2.84	FX11LB-140P-SV

Fig.	No. of Contacts Signal	Ground	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Receptacles									
With Ground Plate and Guideposts									
1	60	6	25	17.5	H2525-ND	4.48	3.59	2.78	FX11LA-60S/6-SV
	80	8	31	23.5	H2526-ND	4.95	3.96	3.06	FX11LA-80S/8-SV
	100	10	37	29.5	H2527-ND	5.45	4.36	3.37	FX11LA-100S/10-SV
	120	12	43	35.5	H2528-ND	5.94	4.76	3.68	FX11LA-120S/12-SV
With Ground Plate, Without Guideposts									
1	60	6	25	17.5	H2529-ND	4.48	3.59	2.78	FX11LB-60S/6-SV
	80	8	31	23.5	H2530-ND	4.95	3.96	3.06	FX11LB-80S/8-SV
	100	10	37	29.5	H2531-ND	5.45	4.36	3.37	FX11LB-100S/10-SV
	120	12	43	35.5	H2532-ND	5.94	4.76	3.68	FX11LB-120S/12-SV
Without Ground Plate, With Guideposts									
1	68	–	25	16.5	H2541-ND	4.07	3.26	2.52	FX11LA-68S-SV
	92	–	31	22.5	H2542-ND	4.51	3.61	2.79	FX11LA-92S-SV
	116	–	37	28.5	H2543-ND	5.01	4.01	3.10	FX11LA-116S-SV
	140	–	43	34.5	H2544-ND	5.47	4.38	3.39	FX11LA-140S-SV
Without Ground Plate and Guideposts									
1	68	–	25	16.5	H2545-ND	4.07	3.26	2.52	FX11LB-68S-SV
	92	–	31	22.5	H2546-ND	4.51	3.61	2.79	FX11LB-92S-SV
	116	–	37	28.5	H2547-ND	5.01	4.01	3.10	FX11LB-116S-SV
	140	–	43	34.5	H2548-ND	5.47	4.38	3.39	FX11LB-140S-SV

HIROSE
ELECTRIC
CO.,LTD.

NEW! FX8 Series Connnectors

0.6mm Pitch - Single Row (SMT)

The FX8 Series of 0.6mm pitch board mounting SMT connectors can be used with 3mm or greater distance between the boards. They are designed with the objectives of miniaturization, space-saving, and multiple contacts for internal mounting.

Features: • 3mm stacking height • The engagement portion is designed to prevent erroneous insertion and a bellows structure that is not susceptible to twisting has been used in the contacts • The SMT soldering lead portion protrudes about 0.7mm beyond the outer surface of the housing, enabling image processing for automatic mounting and affording excellent repair qualities • Connectors are equipped with board positioning bosses which prevent incorrect insertion to the board by means of boss position and boss diameter.

Electrical: • Current Capacity: 0.4A per pin • Rated Voltage: 100V AC • Insulation Resistance: 100MΩ or greater at 250V DC • Withstand Voltage: 300V AC r.m.s. for one minute at specified value • Contact Resistance: 45mΩ or less at 100mA DC

Material and Finish: • Insulation: PPS resin, light brown, UL94V-0 • Header Contacts: Phosphor bronze, gold-plated contacts, solder-plated leads • Receptacle Contacts: Phosphor bronze, gold-plated contacts and leads

Fig. 1

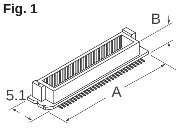


Fig. 2

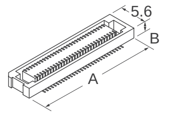


Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
				Vertical Pin Headers				
1	60	24.60	2.45	H1202-ND	2.60	2.00	1.60	FX8-60P-SV(21)
			3.45	H1208-ND	2.60	2.00	1.60	FX8-60P-SV1(21)
			4.45	H1221-ND	3.63	2.82	2.25	FX8C-60P-SV(21)
			5.45	H1226-ND	3.63	2.82	2.25	FX8C-60P-SV1(21)
			6.45	H1227-ND	3.63	2.82	2.25	FX8C-60P-SV2(21)
			8.45	H1228-ND	3.63	2.82	2.25	FX8C-60P-SV4(21)
			10.45	H1229-ND	3.63	2.82	2.25	FX8C-60P-SV6(21)
	80	30.60	2.45	H1203-ND	3.02	2.33	1.86	FX8-80P-SV(21)
			3.45	H1209-ND	3.02	2.33	1.86	FX8-80P-SV1(21)
			4.45	H1222-ND	4.12	3.20	2.56	FX8C-80P-SV(21)
			5.45	H1230-ND	4.12	3.20	2.56	FX8C-80P-SV1(21)
			6.45	H1231-ND	4.12	3.20	2.56	FX8C-80P-SV2(21)
			8.45	H1232-ND	4.12	3.20	2.56	FX8C-80P-SV4(21)
			10.45	H1233-ND	4.12	3.20	2.56	FX8C-80P-SV6(21)
	90	33.60	2.45	H1204-ND	3.22	2.48	1.98	FX8-90P-SV(21)
			3.45	H1210-ND	3.22	2.48	1.98	FX8-90P-SV1(21)
	100	36.60	2.45	H1205-ND	3.07	2.39	1.91	FX8-100P-SV(21)
			3.45	H1211-ND	3.07	2.39	1.91	FX8-100P-SV1(21)
			4.45	H1223-ND	4.64	3.60	2.88	FX8C-100P-SV(21)
			5.45	H1234-ND	4.64	3.60	2.88	FX8C-100P-SV1(21)
			6.45	H1235-ND	4.64	3.60	2.88	FX8C-100P-SV2(21)
			8.45	H1236-ND	4.64	3.60	2.88	FX8C-100P-SV4(21)
			10.45	H1237-ND	4.64	3.60	2.88	FX8C-100P-SV6(21)
	120	42.60	2.45	H1206-ND	3.42	2.66	2.13	FX8-120P-SV(21)
			3.45	H1212-ND	3.42	2.66	2.13	FX8-120P-SV1(21)
			4.45	H1224-ND	5.13	3.99	3.19	FX8C-120P-SV(21)
			5.45	H1238-ND	5.13	3.99	3.19	FX8C-120P-SV1(21)
			6.45	H1239-ND	5.13	3.99	3.19	FX8C-120P-SV2(21)
			8.45	H1240-ND	5.13	3.99	3.19	FX8C-120P-SV4(21)
			10.45	H1241-ND	5.13	3.99	3.19	FX8C-120P-SV6(21)
	140	48.60	2.45	H1207-ND	3.86	3.00	2.40	FX8-140P-SV(21)
			3.45	H1213-ND	3.86	3.00	2.40	FX8-140P-SV1(21)
			4.45	H1225-ND	5.66	4.39	3.51	FX8C-140P-SV(21)
			5.45	H1242-ND	5.66	4.39	3.51	FX8C-140P-SV1(21)
			6.45	H1243-ND	5.66	4.39	3.51	FX8C-140P-SV2(21)
			8.45	H1244-ND	5.66	4.39	3.51	FX8C-140P-SV4(21)
			10.45	H1245-ND	5.66	4.39	3.51	FX8C-140P-SV6(21)
				Receptacles				
2	60	24.60	2.25	H1215-ND	3.05	2.37	1.89	FX8-60S-SV(21)
			3.95	H1246-ND	3.71	2.88	2.31	FX8C-60S-SV(21)
			8.95	H1251-ND	3.92	3.04	2.43	FX8C-60S-SV5(21)
	80	30.60	2.25	H1216-ND	3.60	2.79	2.24	FX8-80S-SV(21)
			3.95	H1247-ND	4.23	3.29	2.63	FX8C-80S-SV(21)
			8.95	H1252-ND	4.58	3.56	2.85	FX8C-80S-SV5(21)
	90	33.60	2.25	H1217-ND	3.92	3.04	2.43	FX8-90S-SV(21)
	100	36.60	2.25	H1218-ND	4.21	3.27	2.61	FX8-100S-SV(21)
			3.95	H1248-ND	4.76	3.69	2.96	FX8C-100S-SV(21)
			8.95	H1253-ND	5.16	4.01	3.21	FX8C-100S-SV5(21)
	120	42.60	2.25	H1219-ND	4.76	3.69	2.96	FX8-120S-SV(21)
			3.95	H1249-ND	5.28	4.10	3.28	FX8C-120S-SV(21)
			8.95	H1254-ND	5.74	4.46	3.57	FX8C-120S-SV5(21)
	140	48.60	2.25	H1220-ND	5.37	4.17	3.33	FX8-140S-SV(21)
			3.95	H1250-ND	5.83	4.53	3.62	FX8C-140S-SV(21)
			8.95	H1255-ND	6.41	4.98	3.98	FX8C-140S-SV5(21)

NEW! DF15 Series - SMT Connectors

0.65mm Pitch - Board to Board

Features: • This series considers the service efficiency to set the pitch to 0.65mm, corresponding to the 0.5mm pitch DF12 series. This connector widely covers the definition of the mounting space or the board to board size together with the DF12 series. • The product is prepared to prevent solder peeling, considering the mounting on FPC *Note:* The stacking height is determined by adding the header and receptacle to the figures followed by the product name DF15#. The stacking height doesn't include the soldering paste thickness

Applications: • Mobile phones • LCD (Liquid Crystal Display) • MO (Optical Disk) • Note PC

Specifications: • Current Rating: 0.3A • Voltage Rating: 50VAC • Operating Temperature: -35°C to 85°C • Operating Humidity: 40% to 80% • Insulation Resistance: 100VDC, 500 MΩ min. • Withstanding Voltage: 1 min. at rated value, 150VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA DC, 50mΩ max.

Material (receptacle/header): • Insulator: Polyamide, beige, UL94V-0 • Contacts: Phosphor copper with gold plating • Metal Fittings: Brass with solder plating.

Fig. 1

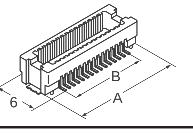


Fig. 2

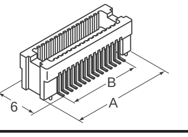


Fig. 3

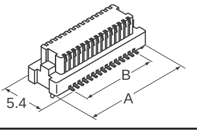


Fig.	Mtg. Height	No. of Pins	Dimensons (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
					Headers				
					With Metal Fitting and Boss				
1	3.2 mm	20	9.85	5.85	H1732-ND	1.63	1.19	.97	DF15(3.2)-20DP-0.65V(50)
		30	13.1	9.1	H1733-ND	1.79	1.38	1.10	DF15(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1734-ND	2.21	1.70	1.36	DF15(3.2)-40DP-0.65V(50)
		50	19.6	15.6	H1735-ND	2.57	1.98	1.58	DF15(3.2)-50DP-0.65V(50)
2	4.2 mm	20	9.85	5.85	H1736-ND	1.63	1.19	.97	DF15(4.2)-20DP-0.65V(50)
		30	13.1	9.1	H1737-ND	1.79	1.38	1.10	DF15(4.2)-30DP-0.65V(50)
		40	16.35	12.35	H1738-ND	2.21	1.70	1.36	DF15(4.2)-40DP-0.65V(50)
		50	19.6	15.6	H1739-ND	2.57	1.98	1.58	DF15(4.2)-50DP-0.65V(50)
	6.2 mm	20	9.85	5.85	H1740-ND	1.63	1.19	.97	DF15(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1741-ND	1.79	1.38	1.10	DF15(6.2)-30DP-0.65V(50)
		40	16.35	12.35	H1742-ND	2.21	1.70	1.36	DF15(6.2)-40DP-0.65V(50)
		50	19.6	15.6	H1743-ND	2.57	1.98	1.58	DF15(6.2)-50DP-0.65V(50)
					With Metal Fitting and Without Boss				
1	3.2 mm	20	9.85	5.85	H1756-ND	1.63	1.19	.97	DF15B(3.2)-20DP-0.65V(50)
		30	13.1	9.1	H1757-ND	1.79	1.38	1.10	DF15B(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1758-ND	2.21	1.70	1.36	DF15B(3.2)-40DP-0.65V(50)
		50	19.6	15.6	H1759-ND	2.57	1.98	1.58	DF15B(3.2)-50DP-0.65V(50)
2	4.2 mm	20	9.85	5.85	H1760-ND	1.63	1.19	.97	DF15B(4.2)-20DP-0.65V(50)
		30	13.1	9.1	H1761-ND	1.79	1.38	1.10	DF15B(4.2)-30DP-0.65V(50)
		40	16.35	12.35	H1762-ND	2.21	1.70	1.36	DF15B(4.2)-40DP-0.65V(50)
		50	19.6	15.6	H1763-ND	2.57	1.98	1.58	DF15B(4.2)-50DP-0.65V(50)
	6.2 mm	20	9.85	5.85	H1764-ND	1.63	1.19	.97	DF15B(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1765-ND	1.79	1.38	1.10	DF15B(6.2)-30DP-0.65V(50)
		40	16.35	12.35	H1766-ND	2.21	1.70	1.36	DF15B(6.2)-40DP-0.65V(50)
		50	19.6	15.6	H1767-ND	2.57	1.98	1.58	DF15B(6.2)-50DP-0.65V(50)
					Without Metal Fitting and With Boss				
1	3.2 mm	20	9.85	5.85	H1744-ND	1.60	1.16	.95	DF15A(3.2)-20DP-0.65V(50)
		30	13.1	9.1	H1745-ND	1.76	1.35	1.08	DF15A(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1746-ND	2.18	1.68	1.34	DF15A(3.2)-40DP-0.65V(50)
		50	19.6	15.6	H1747-ND	2.54	1.95	1.56	DF15A(3.2)-50DP-0.65V(50)
2	4.2 mm	20	9.85	5.85	H1748-ND	1.60	1.16	.95	DF15A(4.2)-20DP-0.65V(50)
		30	13.1	9.1	H1749-ND	1.76	1.35	1.08	DF15A(4.2)-30DP-0.65V(50)
		40	16.35	12.35	H1750-ND	2.18	1.68	1.34	DF15A(4.2)-40DP-0.65V(50)
		50	19.6	15.6	H1751-ND	2.54	1.95	1.56	DF15A(4.2)-50DP-0.65V(50)
	6.2 mm	20	9.85	5.85	H1752-ND	1.60	1.16	.95	DF15A(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1753-ND	1.76	1.35	1.08	DF15A(6.2)-30DP-0.65V(50)
		40	16.35	12.35	H1754-ND	2.18	1.68	1.34	DF15A(6.2)-40DP-0.65V(50)
		50	19.6	15.6	H1755-ND	2.54	1.95	1.56	DF15A(6.2)-50DP-0.65V(50)
					Without Metal Fitting and Without Boss				
1	3.2 mm	20	9.85	5.85	H1768-ND	1.60	1.16	.95	DF15C(3.2)-20DP-0.65V(50)
		30	13.1	9.1	H1769-ND	1.76	1.35	1.08	DF15C(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1770-ND	2.18	1.68	1.34	DF15C(3.2)-40DP-0.65V(50)
		50	19.6	15.6	H1771-ND	2.54	1.95	1.56	DF15C(3.2)-50DP-0.65V(50
2	4.2 mm	20	9.85	5.85	H1772-ND	1.60	1.16	.95	DF15C(4.2)-20DP-0.65V(50)
		30	13.1	9.1	H1773-ND	1.76	1.35	1.08	DF15C(4.2)-30DP-0.65V(50)
		40	16.35	12.35	H1774-ND	2.18	1.68	1.34	DF15C(4.2)-40DP-0.65V(50)
		50	19.6	15.6	H1775-ND	2.54	1.95	1.56	DF15C(4.2)-50DP-0.65V(50)
	6.2 mm	20	9.85	5.85	H1776-ND	1.60	1.16	.95	DF15C(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1777-ND	1.76	1.35	1.08	DF15C(6.2)-30DP-0.65V(50)
		40	16.35	12.35	H1778-ND	2.18	1.68	1.34	DF15C(6.2)-40DP-0.65V(50)
		50	19.6	15.6	H1779-ND	2.54	1.95	1.56	DF15C(6.2)-50DP-0.65V(50)
					Receptacles				
					With Metal Fitting and Boss				
3	0.8 mm	20	9.85	5.85	H1700-ND	1.63	1.19	.97	DF15(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1701-ND	2.18	1.68	1.34	DF15(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1702-ND	2.28	1.75	1.40	DF15(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1703-ND	2.76	2.13	1.70	DF15(0.8)-50DS-0.65V(50)
	1.8 mm	20	9.85	5.85	H1704-ND	1.63	1.19	.97	DF15(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1705-ND	2.28	1.75	1.40	DF15(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1706-ND	2.28	1.75	1.40	DF15(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1707-ND	2.76	2.13	1.70	DF15(1.8)-50DS-0.65V(50)
					With Metal Fitting and Without Boss				
3	0.8 mm	20	9.85	5.85	H1716-ND	1.63	1.19	.97	DF15B(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1717-ND	1.85	1.43	1.14	DF15B(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1718-ND	2.28	1.75	1.40	DF15B(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1719-ND	2.76	2.13	1.70	DF15B(0.8)-50DS-0.65V(50)
	1.8 mm	20	9.85	5.85	H1720-ND	1.63	1.19	.97	DF15B(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1721-ND	1.85	1.43	1.14	DF15B(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1722-ND	2.28	1.75	1.40	DF15B(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1723-ND	2.76	2.13	1.70	DF15B(1.8)-50DS-0.65V(50)
					Without Metal Fitting and Boss				
3	0.8 mm	20	9.85	5.85	H1708-ND	1.60	1.16	.95	DF15A(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1709-ND	1.82	1.40	1.12	DF15A(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1710-ND	2.80	2.15	1.72	DF15A(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1711-ND	2.73	2.10	1.68	DF15A(0.8)-50DS-0.65V(50)
	1.8 mm	20	9.85	5.85	H1712-ND	1.60	1.16	.95	DF15A(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1713-ND	1.82	1.40	1.12	DF15A(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1714-ND	2.28	1.75	1.40	DF15A(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1715-ND	2.73	2.10	1.68	DF15A(1.8)-50DS-0.65V(50)
					Without Metal Fitting and Without Boss				
3	0.8 mm	20	9.85	5.85	H1724-ND	1.60	1.16	.95	DF15C(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1725-ND	1.82	1.40	1.12	DF15C(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1726-ND	2.28	1.75	1.40	DF15C(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1727-ND	2.73	2.10	1.68	DF15C(0.8)-50DS-0.65V(50)
	1.8 mm	20	9.85	5.85	H1728-ND	1.60	1.16	.95	DF15C(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1729-ND	1.82	1.40	1.12	DF15C(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1730-ND	2.28	1.75	1.40	DF15C(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1731-ND	2.73	2.10	1.68	DF15C(1.8)-50DS-0.65V(50)

HIROSE ELECTRIC CO.,LTD.

FX6 Series - Surface Mount Vertical Connectors

0.8mm Pitch

Features: This small-sized, lightweight type has approximately one quarter the weight and one half the mounting volume compared to half-pitch connectors (1.27mm Pitch) available until now. Stacking height can be set from 5 to 9mm in 1mm steps. Though these are low profile type connectors, the effective length of engagement is long at 1.7mm, which affords a fit with leeway.

Applications: Notebook computers, personal terminals and other office automation equipment. Equipment that calls for miniaturization and lighter weight.

Material: • Insulator: PPS resin, light brown, UL94V-0 • Header/Recept. pins: Phosphor bronze • Contacts: Gold plating • Leads: Tin plating

Electrical: • Current capacity: 0.5A • Rated voltage: 100VAC • Insulation resistance: 250VDC, 1,000MΩ or more • Withstand voltage for 1 minute at specified value 300VAC • Contact resistance: 100mA DC 40mΩ or less

Fig. 1

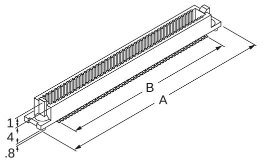


Fig. 2

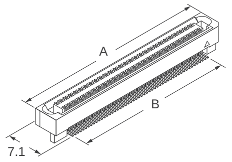


Fig.	Height (mm)	No. of Pins	Dim.(mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Headers									
With Positioning Boss									
1	4	20	15.8	7.2	H2408-ND	2.15	1.65	1.32	FX6-20P-0.8SV
		40	23.8	15.2	H2409-ND	3.06	2.35	1.88	FX6-40P-0.8SV
		50	27.8	19.2	H2410-ND	3.00	2.40	1.86	FX6-50P-0.8SV
		60	31.8	23.2	H2411-ND	3.38	2.71	2.10	FX6-60P-0.8SV
		80	39.8	31.2	H2412-ND	4.10	3.28	2.54	FX6-80P-0.8SV
		100	47.8	39.2	H2413-ND	4.90	3.92	3.03	FX6-100P-0.8SV
	5	60	31.8	23.2	H2417-ND	4.13	3.30	2.55	FX6-60P-0.8SV1
	6	100	47.8	39.2	H2425-ND	5.78	4.62	3.57	FX6-100P-0.8SV2
Without Positioning Boss									
1	4	20	15.8	7.2	H2438-ND	2.15	1.65	1.32	FX6A-20P-0.8SV
		40	23.8	15.2	H2439-ND	3.06	2.35	1.88	FX6A-40P-0.8SV
		50	27.8	19.2	H2440-ND	3.00	2.40	1.86	FX6A-50P-0.8SV
		60	31.8	23.2	H2441-ND	3.38	2.71	2.10	FX6A-60P-0.8SV
		80	39.8	31.2	H2442-ND	4.10	3.28	2.54	FX6A-80P-0.8SV
		100	47.8	39.2	H2443-ND	4.90	3.92	3.03	FX6A-100P-0.8SV
	5	20	15.8	7.2	H2444-ND	2.89	2.23	1.78	FX6A-20P-0.8SV1
		40	23.8	15.2	H2445-ND	3.30	2.64	2.04	FX6A-40P-0.8SV1
		60	31.8	23.2	H2447-ND	4.13	3.30	2.55	FX6A-60P-0.8SV1
	6	50	27.8	19.2	H2452-ND	3.71	2.97	2.30	FX6A-50P-0.8SV2
		60	31.8	23.2	H2453-ND	4.13	3.30	2.55	FX6A-60P-0.8SV2
Receptacle									
With Positioning Boss									
2	4	20	15.8	7.2	H2426-ND	2.31	1.78	1.42	FX6-20S-0.8SV
		40	23.8	15.2	H2427-ND	2.81	2.25	1.74	FX6-40S-0.8SV
		50	27.8	19.2	H2428-ND	3.22	2.58	1.99	FX6-50S-0.8SV
		60	31.8	23.2	H2429-ND	3.63	2.91	2.25	FX6-60S-0.8SV
		80	39.8	31.2	H2430-ND	4.51	3.61	2.79	FX6-80S-0.8SV
		100	47.8	39.2	H2431-ND	5.34	4.27	3.30	FX6-100S-0.8SV
	6	20	15.8	7.2	H2432-ND	3.08	2.47	1.91	FX6-20S-0.8SV2
		40	23.8	15.2	H2433-ND	3.99	3.19	2.47	FX6-40S-0.8SV2
		50	27.8	19.2	H2434-ND	4.43	3.55	2.74	FX6-50S-0.8SV2
		60	31.8	23.2	H2435-ND	4.90	3.92	3.03	FX6-60S-0.8SV2
		80	39.8	31.2	H2436-ND	5.78	4.62	3.57	FX6-80S-0.8SV2
		100	47.8	39.2	H2437-ND	6.71	5.37	4.15	FX6-100S-0.8SV2
Without Positioning Boss									
2	4	20	15.8	7.2	H2456-ND	2.31	1.78	1.42	FX6A-20S-0.8SV
		40	23.8	15.2	H2457-ND	2.81	2.25	1.74	FX6A-40S-0.8SV
		50	27.8	19.2	H2458-ND	3.22	2.58	1.99	FX6A-50S-0.8SV
		60	31.8	23.2	H2459-ND	3.63	2.91	2.25	FX6A-60S-0.8SV
		80	39.8	31.2	H2460-ND	4.51	3.61	2.79	FX6A-80S-0.8SV
		100	47.8	39.2	H2461-ND	5.34	4.27	3.30	FX6A-100S-0.8SV
	6	40	23.8	15.2	H2463-ND	3.99	3.19	2.47	FX6A-40S-0.8SV2
		50	27.8	19.2	H2464-ND	4.43	3.55	2.74	FX6A-50S-0.8SV2
		60	31.8	23.2	H2465-ND	4.90	3.92	3.03	FX6A-60S-0.8SV2
		80	39.8	31.2	H2466-ND	5.78	4.62	3.57	FX6A-80S-0.8SV2
		100	47.8	39.2	H2467-ND	6.71	5.37	4.15	FX6A-100S-0.8SV2

DF9 Series - Surface Mount Connectors

1mm Pitch, Center Line Board-to-Board (With Reinforced Hardware)

Features: • 4.3mm mated height between PCBs • Insulator is manufactured from polyimide to withstand the high temperatures resulting from VPS, IR, and Heat blow soldering • PCB contact is a "Gull-Wing" type design to ensure reliable performance • Designed to control and accept dimensional changes by thermo-elasticity • Reinforcement hardware is provided to eliminate mechanical stress to solder joints during mating and unmating cycles

Electrical: • Rated Current: 0.5A • Rated Voltage: AC150V • Insulation Resistance: Condition: DC100V, Standard Value: Min. 500MΩ • Withstanding Voltage: Condition: At standard value, Standard Value: 50m or less • Contact Resistance: Condition: At 0.1 ADC, Standard Value: 50m or less.

Material & Finish: • Receptacle Header Insulator: Polyimide resin, beige (natural), UL94V-0 • Receptacle Header Connector: Phosphor bronze, tin plating • Receptacle Header Fitting: Brass, tin plating.

Fig. 1

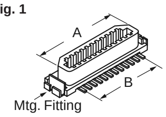


Fig. 2

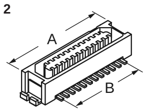


Fig.	No.of Pins	Dim. (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.*
Receptacle with Guide Post								
1	9	8.30	3.00	H2152-ND	1.76	33.75	108.00	DF9-9S-1V(20)
	11	9.30	4.00	H2153-ND	1.69	32.50	104.00	DF9-11S-1V(20)
	13	10.30	5.00	H2154-ND	1.98	38.13	122.00	DF9-13S-1V(20)
	15	11.30	6.00	H2155-ND	1.79	32.31	105.75	DF9-15S-1V(20)
	17	12.30	7.00	H2156-ND	2.24	43.13	138.00	DF9-17S-1V(20)
	19	13.30	8.00	H2157-ND	2.31	44.38	142.00	DF9-19S-1V(20)
	21	14.30	9.00	H2158-ND	2.18	41.88	134.00	DF9-21S-1V(20)
	23	15.30	10.00	H2159-ND	1.76	33.75	108.00	DF9-23S-1V(20)
	25	16.30	11.00	H2160-ND	2.37	45.63	146.00	DF9-25S-1V(20)
	31	19.30	14.00	H2161-ND	1.88	36.13	115.60	DF9-31S-1V(20)
	41	24.30	19.00	H2162-ND	2.91	55.94	179.00	DF9-41S-1V(20)
	51	29.30	24.00	H2163-ND	3.93	78.65	243.10	DF9-51S-1V(54)
	31	19.30	14.00	H2176-ND	2.18	41.88	134.00	DF9B-31S-1V(20)
	41	24.30	19.00	H2177-ND	2.54	48.75	156.00	DF9B-41S-1V(20)
Pin Header with Reinforced Hardware								
2	9	8.30	3.00	H2258-ND	1.79	34.38	110.00	DF9-9P-1V(20)
	11	9.30	4.00	H2165-ND	1.72	33.13	106.00	DF9-11P-1V(20)
	13	10.30	5.00	H2166-ND	1.48	26.81	87.75	DF9-13P-1V(20)
	15	11.30	6.00	H2167-ND	2.15	41.25	132.00	DF9-15P-1V(20)
	17	12.30	7.00	H2168-ND	2.28	43.75	140.00	DF9-17P-1V(20)
	19	13.30	8.00	H2169-ND	2.34	45.00	144.00	DF9-19P-1V(20)
	21	14.30	9.00	H2170-ND	2.22	42.75	136.80	DF9-21P-1V(20)
	23	15.30	10.00	H2171-ND	2.54	48.75	156.00	DF9-23P-1V(20)
	25	16.30	11.00	H2172-ND	2.61	50.13	160.40	DF9-25P-1V(20)
	31	19.30	14.00	H2173-ND	2.26	43.44	139.00	DF9-31P-1V(20)
	41	24.30	19.00	H2174-ND	2.91	55.94	179.00	DF9-41P-1V(20)
	51	29.30	24.00	H2175-ND	3.93	78.65	243.10	DF9-51P-1V(54)

* (20) indicates tin plating; (54) indicates gold plating.

FX2 Series - SMT Connectors

1.27mm Pitch

FX2 Series is a 1.27mm mil spacing, 2 piece connector for use in board-to-board application • High performance PPS resin insulator is compatible to VPS, IR and hot air reflow • Gull wing-shaped lead is used for ease of checking soldered connection • Use of positioning boss for substrate packaging offers improved handling capability • Solder-fixing reinforcement bracket, which disperses inserting/extracting stress, is available for optional specification.

Electrical: • Rated Current: 0.5A • Rated Voltage: 125VAC • Insulation Resistance: More than 100MΩ at 250VDC • Withstanding Voltage: 300VAC • Contact Resistance: Less than 45 mΩ at 100mA DC • Durability: 500 times mating cycles.

Insulator Material & Finish: • Dip Type: Black polyimide resin, UL94V-0 • SMT Type: Light Brawn PPS resin, UL94V-0 • Socket: Black PBT resin and polyimide resin, UL94V-0.

Contact Material & Finish: • Receptacle Header: Phosphor bronze with selective gold plating • Socket: Beryllium copper with selective gold plating.

Fig. 1

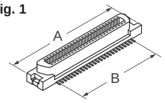


Fig. 2

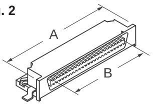


Fig. 3

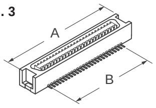


Fig.	No.of Pins	Dim. (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Straight Type Receptacle								
1	20	22.75	11.43	H2248-ND	3.25	64.90	200.60	FX2-20S-1.27SV
	40	35.45	24.13	H2249-ND	4.15	83.05	256.70	FX2-40S-1.27SV
	52	43.07	31.75	H2250-ND	4.70	94.05	290.70	FX2-52S-1.27SV
	60	48.15	36.83	H2251-ND	5.06	101.20	312.80	FX2-60S-1.27SV
	80	60.85	49.53	H2252-ND	5.78	115.50	357.00	FX2-80S-1.27SV
Right Angle Header								
2	20	22.75	12.065	H2243-ND	2.28	43.75	140.00	FX2-20P-0.635SH
	40	35.45	24.765	H2244-ND	3.02	58.13	186.00	FX2-40P-0.635SH
	52	43.07	32.385	H2245-ND	3.00	59.95	185.30	FX2-52P-0.635SH
	60	48.15	37.465	H2246-ND	3.25	64.90	200.60	FX2-60P-0.635SH
	80	60.85	50.165	H2247-ND	3.96	79.20	244.80	FX2-80P-0.635SH
Straight Header								
3	20	22.75	11.43	H2253-ND	3.11	62.15	192.10	FX2-20P-1.27SV
	40	35.45	24.13	H2254-ND	3.93	78.65	243.10	FX2-40P-1.27SV
	52	43.07	31.75	H2255-ND	4.48	89.65	277.10	FX2-52P-1.27SV
	60	48.15	36.83	H2256-ND	4.81	96.25	297.50	FX2-60P-1.27SV
	80	60.85	49.53	H2257-ND	5.67	113.30	350.20	FX2-80P-1.27SV

HIROSE ELECTRIC CO.,LTD.

DF13 Series Connectors

1.25mm Pitch

DF13 Series is 1.25mm pitch, compact "PCB-to-Wire" Nylon Connectors best suited for high density applications requiring reduced cost production, and light-weight.

Electrical Specifications: • Current Capacity: 1A • Rated Voltage: AC150V • Insulation Resistance: Condition: DC100, Standard Value: Minimum 500MΩ • Withstanding Voltage: Condition: At specified value, Standard Value: AC500V. • Contact Resistance: Condition: At DC 0.1A, Standard Value: Max. 30mΩ.

Material & Finish: Pin Header Insulator: Polyimide resin, beige, UL94V-0. Pin Header Contact: Brass, tin plating and gold plating. Pin Header Hardware: Brass, tin plating and gold plating. Crimp Socket Insulator: Polyimide resin, beige, UL94V-0. Crimp Socket Contact: Phosphor bronze, tin plating and gold plating.

Fig. 1

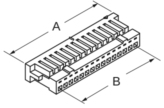


Fig. 2

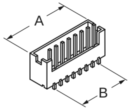


Fig. 3

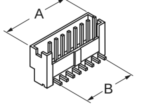


Fig. 4 — SMT

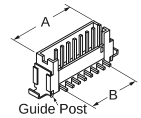


Fig. 5 *NEW!*

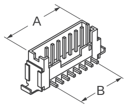


Fig. 6 — SMT

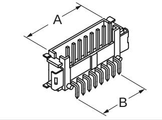


Fig. 7

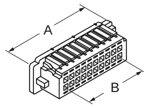


Fig. 8 — SMT

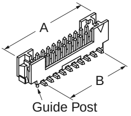


Fig. 9 *NEW!*

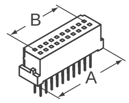
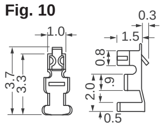


Fig. 10



No.of Pins	Dim. (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
	A	B		1	25	100	
Fig. 1 — Single Row Crimp Socket							
2	4.15	1.25	H2179-ND	.33	3.57	10.07	DF13-2S-1.25C
3	5.40	2.50	H2180-ND	.34	3.73	10.53	DF13-3S-1.25C
4	6.65	3.75	H2181-ND	.34	4.06	12.13	DF13-4S-1.25C
5	7.90	5.00	H2182-ND	.35	4.24	12.65	DF13-5S-1.25C
6	9.15	6.25	H2183-ND	.37	4.39	13.10	DF13-6S-1.25C
7	10.40	7.50	H2184-ND	.38	4.54	13.55	DF13-7S-1.25C
8	11.65	8.75	H2185-ND	.55	6.52	19.48	DF13-8S-1.25C
9	12.90	10.00	H3300-ND	.55	6.59	19.68	DF13-9S-1.25C
10	14.15	11.25	H2186-ND	.41	6.14	19.22	DF13-10S-1.25C
11	15.40	12.50	H2187-ND	.43	6.49	20.33	DF13-11S-1.25C
12	16.65	13.75	H2188-ND	.44	6.63	20.77	DF13-12S-1.25C
14	19.15	16.25	H2189-ND	.48	7.18	22.49	DF13-14S-1.25C
15	20.40	17.50	H2259-ND	.49	7.31	22.89	DF13-15S-1.25C
NEW! Fig. 2 — Single Row, Vertical Pin Header — Tin Plating							
2	4.15	1.25	H2191-ND	.44	5.27	15.73	DF13-2P-1.25DSA
3	5.40	2.50	H2192-ND	.54	6.43	19.20	DF13-3P-1.25DSA
4	6.65	3.75	H2193-ND	.50	7.55	23.64	DF13-4P-1.25DSA
5	7.90	5.00	H2194-ND	.57	8.56	26.81	DF13-5P-1.25DSA
6	9.15	6.25	H2195-ND	.64	9.59	30.03	DF13-6P-1.25DSA
7	10.40	7.50	H2196-ND	.71	10.63	33.30	DF13-7P-1.25DSA
8	11.65	8.75	H2197-ND	.67	12.11	39.65	DF13-8P-1.25DSA
9	12.90	10.00	H3302-ND	.95	17.19	56.25	DF13-9P-1.25DSA(20)
10	14.15	11.25	H2198-ND	.77	13.99	45.79	DF13-10P-1.25DSA
11	15.40	12.50	H3303-ND	1.03	18.56	60.75	DF13-11P-1.25DSA(20)
12	16.65	13.75	H2320-ND	1.03	18.63	60.98	DF13-12P-1.25DSA
13	17.90	15.00	H3304-ND	1.14	20.63	67.50	DF13-13P-1.25DSA(20)
14	19.15	16.25	H2321-ND	1.07	19.40	63.50	DF13-14P-1.25DSA
15	20.40	17.50	H2322-ND	1.22	22.05	72.16	DF13-15P-1.25DSA
NEW! Fig. 2 — Single Row, Vertical Pin Header — Gold Plating							
2	4.15	1.25	H3305-ND	.70	10.50	32.90	DF13-2P-1.25DSA(50)
3	5.40	2.50	H3306-ND	.72	13.06	42.75	DF13-3P-1.25DSA(50)
4	6.65	3.75	H3307-ND	.72	13.06	42.75	DF13-4P-1.25DSA(50)
5	7.90	5.00	H3308-ND	.76	13.75	45.00	DF13-5P-1.25DSA(50)
6	9.15	6.25	H3309-ND	1.10	19.94	65.25	DF13-6P-1.25DSA(50)
7	10.40	7.50	H3310-ND	.95	17.19	56.25	DF13-7P-1.25DSA(50)
8	11.65	8.75	H3311-ND	1.14	20.63	67.50	DF13-8P-1.25DSA(50)
9	12.90	10.00	H3312-ND	1.18	21.31	69.75	DF13-9P-1.25DSA(50)
10	14.15	11.25	H3313-ND	1.25	22.69	74.25	DF13-10P-1.25DSA(50)
11	15.40	12.50	H3314-ND	1.33	24.06	78.75	DF13-11P-1.25DSA(50)
12	16.65	13.75	H3315-ND	1.63	31.25	100.00	DF13-12P-1.25DSA(50)
14	19.15	16.25	H3316-ND	1.56	28.19	92.25	DF13-14P-1.25DSA(50)
15	20.40	17.50	H3317-ND	1.63	29.56	96.75	DF13-15P-1.25DSA(50)
Fig. 3 — Single Row, Right Angle Pin Header — Tin Plating							
2	4.15	1.25	H2199-ND	.48	5.78	17.25	DF13-2P-1.25DS(20)
3	5.40	2.50	H2260-ND	.43	6.45	20.21	DF13-3P-1.25DS(20)
4	6.65	3.75	H2201-ND	.56	8.40	26.32	DF13-4P-1.25DS(20)
5	7.90	5.00	H2202-ND	.64	9.60	30.08	DF13-5P-1.25DS(20)
6	9.15	6.25	H2203-ND	.72	10.80	33.84	DF13-6P-1.25DS(20)
7	10.40	7.50	H2204-ND	.61	11.00	36.00	DF13-7P-1.25DS(20)
8	11.65	8.75	H2205-ND	.74	13.48	44.10	DF13-8P-1.25DS(20)
9	12.90	10.00	H3318-ND	1.14	20.63	67.50	DF13-9P-1.25DS(20)
10	14.15	11.25	H2206-ND	.87	15.68	51.30	DF13-10P-1.25DS(20)
11	15.40	12.50	H3319-ND	1.37	24.75	81.00	DF13-11P-1.25DS(20)
12	16.65	13.75	H2323-ND	1.01	18.22	59.63	DF13-12P-1.25DS(20)
14	19.15	16.25	H2324-ND	1.12	20.35	66.60	DF13-14P-1.25DS(20)
15	20.40	17.50	H2325-ND	1.18	21.31	69.75	DF13-15P-1.25DS(20)
NEW! Fig. 3 — Single Row, Right Angle Pin Header — Gold Plating							
2	4.15	1.25	H3320-ND	.55	8.25	25.85	DF13-2P-1.25DS(50)
3	5.40	2.50	H3321-ND	.70	10.50	32.90	DF13-3P-1.25DS(50)
4	6.65	3.75	H3322-ND	.68	12.38	40.50	DF13-4P-1.25DS(50)
5	7.90	5.00	H3323-ND	.76	13.75	45.00	DF13-5P-1.25DS(50)
6	9.15	6.25	H3324-ND	.87	15.81	51.75	DF13-6P-1.25DS(50)
7	10.40	7.50	H3325-ND	.95	17.19	56.25	DF13-7P-1.25DS(50)
8	11.65	8.75	H3326-ND	1.14	20.63	67.50	DF13-8P-1.25DS(50)
9	12.90	10.00	H3327-ND	1.25	22.69	74.25	DF13-9P-1.25DS(50)
10	14.15	11.25	H3328-ND	1.37	24.75	81.00	DF13-10P-1.25DS(50)
11	15.40	12.50	H3329-ND	1.44	26.13	85.50	DF13-11P-1.25DS(50)
12	16.65	13.75	H3330-ND	1.56	28.19	92.25	DF13-12P-1.25DS(50)
14	19.15	16.25	H3331-ND	1.71	30.94	101.25	DF13-14P-1.25DS(50)
15	20.40	17.50	H3332-ND	1.86	33.69	110.25	DF13-15P-1.25DS(50)
Fig. 4 — Single Row, SMT Vertical Pin Header with Guide Posts — Tin Plating							
2	4.15	1.25	H2207-ND	.69	10.28	32.20	DF13-2P-1.25V(20)
3	5.40	2.50	H2208-ND	.71	10.65	33.37	DF13-3P-1.25V(20)
4	6.65	3.75	H2209-ND	.60	10.86	35.55	DF13-4P-1.25V(20)
5	7.90	5.00	H2210-ND	.62	11.21	36.68	DF13-5P-1.25V(20)
6	9.15	6.25	H2211-ND	.69	12.44	40.73	DF13-6P-1.25V(20)
7	10.40	7.50	H2212-ND	.76	13.68	44.78	DF13-7P-1.25V(20)
8	11.65	8.75	H2213-ND	.90	16.36	53.55	DF13-8P-1.25V(20)
9	12.90	10.00	H3335-ND	.87	15.81	51.75	DF13-9P-1.25V(20)
10	14.15	11.25	H2214-ND	1.04	18.84	61.65	DF13-10P-1.25V(20)
11	15.40	12.50	H2215-ND	1.12	20.28	66.38	DF13-11P-1.25V(20)
12	16.65	13.75	H2216-ND	1.19	21.59	70.65	DF13-12P-1.25V(20)
14	19.15	16.25	H2217-ND	1.35	24.34	79.65	DF13-14P-1.25V(20)
15	20.40	17.50	H2218-ND	1.41	25.51	83.48	DF13-15P-1.25V(20)

No.of Pins	Dim. (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
	A	B		1	25	100	
NEW! Fig. 4 — Single Row, SMT with Guide Post Vertical Pin Header — Gold Plating							
2	4.15	1.25	H3336-ND	.68	12.38	40.50	DF13-2P-1.25V(50)
3	5.40	2.50	H3337-ND	.84	15.13	49.50	DF13-3P-1.25V(50)
4	6.65	3.75	H3338-ND	.99	17.88	58.50	DF13-4P-1.25V(50)
5	7.90	5.00	H3339-ND	1.14	20.63	67.50	DF13-5P-1.25V(50)
6	9.15	6.25	H3340-ND	1.25	22.69	74.25	DF13-6P-1.25V(50)
7	10.40	7.50	H3341-ND	1.25	22.69	74.25	DF13-7P-1.25V(50)
8	11.65	8.75	H3342-ND	1.48	26.81	87.75	DF13-8P-1.25V(50)
9	12.90	10.00	H3343-ND	1.63	29.56	96.75	DF13-9P-1.25V(50)
10	14.15	11.25	H3344-ND	1.71	30.94	101.25	DF13-10P-1.25V(50)
11	15.40	12.50	H3345-ND	1.79	32.31	105.75	DF13-11P-1.25V(50)
12	16.65	13.75	H3346-ND	1.79	32.31	105.75	DF13-12P-1.25V(50)
14	19.15	16.25	H3347-ND	1.82	35.00	112.00	DF13-14P-1.25V(50)
15	20.40	17.50	H3348-ND	1.92	36.88	118.00	DF13-15P-1.25V(50)
NEW! Fig. 5 — Single Row, SMT Vertical Pin Header with Boss — Tin Plating							
2	4.15	1.25	H3393-ND	.50	7.50	23.50	DF13B-2P-1.25V(20)
3	5.40	2.50	H3394-ND	.55	8.25	25.85	DF13B-3P-1.25V(20)
4	6.65	3.75	H3395-ND	.65	9.75	30.55	DF13B-4P-1.25V(20)
5	7.90	5.00	H3396-ND	.61	11.00	36.00	DF13B-5P-1.25V(20)
6	9.15	6.25	H3397-ND	.65	11.69	38.25	DF13B-6P-1.25V(20)
7	10.40	7.50	H3398-ND	.68	12.38	40.50	DF13B-7P-1.25V(20)
8	11.65	8.75	H3399-ND	.84	15.13	49.50	DF13B-8P-1.25V(20)
9	12.90	10.00	H3400-ND	.87	15.81	51.75	DF13B-9P-1.25V(20)
10	14.15	11.25	H3401-ND	.91	16.50	54.00	DF13B-10P-1.25V(20)
11	15.40	12.50	H3402-ND	.95	17.19	56.25	DF13B-11P-1.25V(20)
12	16.65	13.75	H3403-ND	.99	17.88	58.50	DF13B-12P-1.25V(20)
14	19.15	16.25	H3404-ND	1.14	20.63	67.50	DF13B-14P-1.25V(20)
15	20.40	17.50	H3405-ND	1.22	22.00	72.00	DF13B-15P-1.25V(20)
NEW! Fig. 5 — Single Row, SMT Vertical Pin Header with Boss — Gold Plating							
2	4.15	1.25	H3406-ND	.68	12.38	40.50	DF13B-2P-1.25V(50)
3	5.40	2.50	H3407-ND	.84	15.13	49.50	DF13B-3P-1.25V(50)
4	6.65	3.75	H3408-ND	.99	17.88	58.50	DF13B-4P-1.25V(50)
5	7.90	5.00	H3409-ND	1.14	20.63	67.50	DF13B-5P-1.25V(50)
6	9.15	6.25	H3410-ND	1.25	22.69	74.25	DF13B-6P-1.25V(50)
7	10.40	7.50	H3411-ND	1.25	22.69	74.25	DF13B-7P-1.25V(50)
8	11.65	8.75	H3412-ND	1.48	26.81	87.75	DF13B-8P-1.25V(50)
9	12.90	10.00	H3413-ND	1.63	29.56	96.75	DF13B-9P-1.25V(50)
10	14.15	11.25	H3414-ND	1.71	30.94	101.25	DF13B-10P-1.25V(50)
11	15.40	12.50	H3415-ND	1.79	32.31	105.75	DF13B-11P-1.25V(50)
12	16.65	13.75	H3416-ND	1.63	31.25	100.00	DF13B-12P-1.25V(50)
14	19.15	16.25	H3417-ND	1.82	35.00	112.00	DF13B-14P-1.25V(50)
15	20.40	17.50	H3418-ND	1.92	36.88	118.00	DF13B-15P-1.25V(50)
NEW! Fig. 5 — Single Row, SMT Vertical Pin Header without Boss — Tin Plating							
2	4.15	1.25	H3419-ND	.50	7.50	23.50	DF13C-2P-1.25V(20)
3	5.40	2.50	H3420-ND	.55	8.25	25.85	DF13C-3P-1.25V(20)
4	6.65	3.75	H3421-ND	.65	9.75	30.55	DF13C-4P-1.25V(20)
5	7.90	5.00	H3422-ND	.61	11.00	36.00	DF13C-5P-1.25V(20)
6	9.15	6.25	H3423-ND	.65	11.69	38.25	DF13C-6P-1.25V(20)
7	10.40	7.50	H3424-ND	.68	12.38	40.50	DF13C-7P-1.25V(20)
8	11.65	8.75	H3425-ND	.84	15.13	49.50	DF13C-8P-1.25V(20)
9	12.90	10.00	H3426-ND	.87	15.81	51.75	DF13C-9P-1.25V(20)
10	14.15	11.25	H3427-ND	.91	16.50	54.00	DF13C-10P-1.25V(20)
11	15.40	12.50	H3428-ND	.95	17.19	56.25	DF13C-11P-1.25V(20)
12	16.65	13.75	H3429-ND	.99	17.88	58.50	DF13C-12P-1.25V(20)
14	19.15	16.25	H3430-ND	1.14	20.63	67.50	DF13C-14P-1.25V(20)
15	20.40	17.50	H3431-ND	1.22	22.00	72.00	DF13C-15P-1.25V(20)
NEW! Fig. 5 — Single Row, SMT Vertical Pin Header without Boss — Gold Plating							
2	4.15	1.25	H3432-ND	.68	12.38	40.50	DF13C-2P-1.25V(50)
3	5.40	2.50	H3433-ND	.84	15.13	49.50	DF13C-3P-1.25V(50)
4	6.65	3.75	H3434-ND	.99	17.88	58.50	DF13C-4P-1.25V(50)
5	7.90	5.00	H3435-ND	1.14	20.63	67.50	DF13C-5P-1.25V(50)
6	9.15	6.25	H3436-ND	1.25	22.69	74.25	DF13C-6P-1.25V(50)
7	10.40	7.50	H3437-ND	1.25	22.69	74.25	DF13C-7P-1.25V(50)
8	11.65	8.75	H3438-ND	1.48	26.81	87.75	DF13C-8P-1.25V(50)
9	12.90	10.00	H3439-ND	1.63	29.56	96.75	DF13C-9P-1.25V(50)
10	14.15	11.25	H3440-ND	1.71	30.94	101.25	DF13C-10P-1.25V(50)
11	15.40	12.50	H3441-ND	1.79	32.31	105.75	DF13C-11P-1.25V(50)
12	16.65	13.75	H3442-ND	1.63	31.25	100.00	DF13C-12P-1.25V(50)
14	19.15	16.25	H3443-ND	1.82	35.00	112.00	DF13C-14P-1.25V(50)
15	20.40	17.50	H3444-ND	1.92	36.88	118.00	DF13C-15P-1.25V(50)
Fig. 6 — Single Row, SMT Right Angle Pin Header with Boss — Tin Plating							
2	4.15	1.25	H2219-ND	.53	7.95	24.91	DF13-2P-1.25H(20)
3	5.40	2.50	H2220-ND	.60	8.93	27.97	DF13-3P-1.25H(20)
4	6.65	3.75	H2221-ND	.71	10.65	33.37	DF13-4P-1.25H(20)
5	7.90	5.00	H2222-ND	.59	10.66	34.88	DF13-5P-1.25H(20)
6	9.15	6.25	H2223-ND	.65	11.83	38.70	DF13-6P-1.25H(20)
7	10.40	7.50	H2224-ND	.71	12.93	42.30	DF13-7P-1.25H(20)
8	11.65	8.75	H2225-ND	.86	15.54	50.85	DF13-8P-1.25H(20)
9	12.90	10.00	H3349-ND	.91	16.50	54.00	DF13-9P-1.25H(20)
10	14.15	11.25	H2226-ND	.99	17.94	58.73	DF13-10P-1.25H(20)
11	15.40	12.50	H2227-ND	1.03	18.56	60.75	DF13-11P-1.25H(20)
12	16.65	13.75	H2228-ND	1.13	20.49	67.05	DF13-12P-1.25H(20)
14	19.15	16.25	H2229-ND	1.28	23.10	75.60	DF13-14P-1.25H(20)
15	20.40	17.50	H2230-ND	1.33	24.13	78.98	DF13-15P-1.25H(20)

No.of Pins	Dim. (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
	A	B		1	25	100	
NEW! Fig. 6 — Single Row, SMT Right Angle Pin Header with Boss — Gold Plating							
2	4.15	1.25	H3350-ND	.68	12.38	40.50	DF13-2P-1.25H(50)
3	5.40	2.50	H3351-ND	.84	15.13	49.50	DF13-3P-1.25H(50)
4	6.65	3.75	H3352-ND	.99	17.88	58.50	DF13-4P-1.25H(50)
5	7.90	5.00	H3353-ND	1.14	20.63	67.50	DF13-5P-1.25H(50)
6	9.15	6.25	H3354-ND	1.25	22.69	74.25	DF13-6P-1.25H(50)
7	10.40	7.50	H3355-ND	1.25	22.69	74.25	DF13-7P-1.25H(50)
8	11.65	8.75	H3356-ND	1.48	26.81	87.75	DF13-8P-1.25H(50)
9	12.90	10.00	H3357-ND	1.63	29.56	96.75	DF13-9P-1.25H(50)
10	14.15	11.25	H3358-ND	1.71	30.94	101.25	DF13-10P-1.25H(50)
11	15.40	12.50	H3359-ND	1.79	32.31	105.75	DF13-11P-1.25H(50)
12	16.65	13.75	H3360-ND	1.63	31.25	100.00	DF13-12P-1.25H(50)
14	19.15	16.25	H3361-ND	1.82	35.00	112.00	DF13-14P-1.25H(50)
15	20.40	17.50	H3362-ND	1.92	36.88	118.00	DF13-15P-1.25H(50)
NEW! Fig. 6 — Single Row, SMT Right Angle Pin Header without Boss — Tin Plating							
2	4.15	1.25	H3367-ND	.50	7.50	23.50	DF13A-2P-1.25H(20)
3	5.40	2.50	H3368-ND	.60	9.00	28.20	DF13A-3P-1.25H(20)
4	6.65	3.75	H3369-ND	.70	10.50	32.90	DF13A-4P-1.25H(20)
5	7.90	5.00	H3370-ND	.61	11.00	36.00	DF13A-5P-1.25H(20)
6	9.15	6.25	H3371-ND	.65	11.69	38.25	DF13A-6P-1.25H(20)
7	10.40	7.50	H3372-ND	.68	12.38	40.50	DF13A-7P-1.25H(20)
8	11.65	8.75	H3373-ND	.84	15.13	49.50	DF13A-8P-1.25H(20)
9	12.90	10.00	H3374-ND	.91	16.50	54.00	DF13A-9P-1.25H(20)
10	14.15	11.25	H3375-ND	.95	17.19	56.25	DF13A-10P-1.25H(20)
11	15.40	12.50	H3376-ND	.99	17.88	58.50	DF13A-11P-1.25H(20)
12	16.65	13.75	H3377-ND	1.03	18.56	60.75	DF13A-12P-1.25H(20)
14	19.15	16.25	H3378-ND	1.18	21.31	69.75	DF13A-14P-1.25H(20)
15	20.40	17.50	H3379-ND	1.22	22.00	72.00	DF13A-15P-1.25H(20)
NEW! Fig. 6 — Single Row, SMT Right Angle Pin Header without Boss — Gold Plating							
2	4.15	1.25	H3380-ND	.68	12.38	40.50	DF13A-2P-1.25H(50)
3	5.40	2.50	H3381-ND	.84	15.13	49.50	DF13A-3P-1.25H(50)
4	6.65	3.75	H3382-ND	.99	17.88	58.50	DF13A-4P-1.25H(50)
5	7.90	5.00	H3383-ND	1.14	20.63	67.50	DF13A-5P-1.25H(50)
6	9.15	6.25	H3384-ND	1.25	22.69	74.25	DF13A-6P-1.25H(50)
7	10.40	7.50	H3385-ND	1.25	22.69	74.25	DF13A-7P-1.25H(50)
8	11.65	8.75	H3386-ND	1.48	26.81	87.75	DF13A-8P-1.25H(50)
9	12.90	10.00	H3387-ND	1.63	29.56	96.75	DF13A-9P-1.25H(50)
10	14.15	11.25	H3388-ND	1.71	30.94	101.25	DF13A-10P-1.25H(50)
11	15.40	12.50	H3389-ND	1.79	32.31	105.75	DF13A-11P-1.25H(50)
12	16.65	13.75	H3390-ND	1.63	31.25	100.00	DF13A-12P-1.25H(50)
14	19.15	16.25	H3391-ND	1.82	35.00	112.00	DF13A-14P-1.25H(50)
15	20.40	17.50	H3392-ND	1.92	36.88	118.00	DF13A-15P-1.25H(50)
Fig. 7 — Dual Row Crimp Sockets							
10	10.40	5.00	H2231-ND	.30	3.58	10.68	DF13-10DS-1.25C
20	16.65	11.25	H2232-ND	.36	4.35	12.98	DF13-20DS-1.25C
30	22.90	17.50	H2233-ND	.43	5.12	15.28	DF13-30DS-1.25C
40	29.15	23.75	H2234-ND	.49	5.83	17.40	DF13-40DS-1.25C
NEW! Fig. 8 — Dual Row Sockets, SMT Straight Pin Headers with Guide Posts — Tin Plating							
10	12.1	5.00	H3333-ND*	.87	15.81	51.75	DF13-10DP-1.25V(20)
20	18.35	11.25	H3334-ND*	1.22	22.00	72.00	DF13-20DP-1.25V(20)
10	12.1	5.00	H3365-ND†	.87	15.81	51.75	DF13A-10DP-1.25V(20)
20	18.35	11.25	H3366-ND†	1.22	22.00	72.00	DF13A-20DP-1.25(20)
Fig. 8 — Dual Row Sockets, SMT Straight Pin Headers with Guide Posts — Gold Plating							
10	12.10	5.00	H2235-ND*	1.23	22.28	72.90	DF13-10DP-1.25V(50)
20	18.35	11.25	H2236-ND*	1.76	33.81	108.20	DF13-20DP-1.25V(50)
30	24.60	17.50	H2237-ND*	2.36	45.31	145.00	DF13-30DP-1.25V(50)
40	30.85	23.75	H2238-ND*	3.04	58.38	186.80	DF13-40DP-1.25V(50)
Fig. 8 — Dual Row Sockets, SMT Straight Pin Headers without Guide Posts — Gold Plating							
10	12.10	5.00	H2239-ND	1.23	22.28	72.90	DF13A-10DP-1.25V(50)
20	18.35	11.25	H2240-ND	1.76	33.81	108.20	DF13A-20DP-1.25V(50)
30	24.60	17.50	H2241-ND	2.36	45.31	145.00	DF13A-30DP-1.25V(50)
40	30.85	23.75	H2242-ND	3.04	58.38	186.80	DF13A-40DP-1.25V(50)
NEW! Fig. 9 — Dual Row Receptacles — Gold Plating							
20	15.40	11.25	H3363-ND	2.57	49.38	158.00	DF13-20DS-1.25DSA(50)
40	27.90	23.75	H3364-ND	3.57	69.19	221.40	DF13-40DS-1.25DSA(50)
Fig. 10 — Socket Crimp Terminal							
Socket Crimp Contacts, Tin Pltg., AWG 26-30			H9992-ND			3.56/100	DF13-2630SCF
Socket Crimp Contacts, Gold Pltg., AWG 26-30			H9991-ND			5.49/100	DF13-2630SCFA
Hand Crimp Tools and Die Sets							
Tool with Non-Removable Die			H9994-ND			973.08 ea.	DF13-TB2630HC
Tool w/Die Set			H9925-ND *NEW!*			832.00 ea.	DF13-TB2630HC/US
Tool w/out Die Set			H9926-ND *NEW!*			332.50 ea.	HRUS-HT-1
Die Set for H9926-ND			H9929-ND *NEW!*			518.70 ea.	DF13-TB2630HC/US-DS

* With Boss † Without Boss

NEW! DF14 Series Connectors

1.25mm Pitch

Features: • Super Low Profile: This is a connector special for right angle which has pursued a low profile on the board • Board mounting height: 2.5mm • The header has the box structure to prevent from being twisted and has the perfect mis-insertion prevention method. Moreover the header has the wall on the board side and doesn't have any trouble resulted from the friction to board by socket. In addition, the metal fitting is attached to prevent the solder peel.

Applications: • LCD • Note PC • Mobile terminal small business equipment • Video camera

Specifications: • Current Rating: 1A • Voltage Rating: 150VAC • Operating Temperature Range: -25°C to 85°C • Operating Moisture Range: 40% to 80% • Insulation Resistance: 100VDC, 500MΩ min. • Withstanding Voltage: 1 min. at rated value, 500VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 30mΩ max. • Operating Life: Contact resistance of 30mΩ max. (tin plating: 30 cycles and gold plating: 50 cycles)

Material: (socket/header): • Insulator: Polyamide, beige, UL94V-0 • Contacts: Socket: Phosphor copper with gold or tin plating Header: Brass with gold or tin plating • Header Fittings: Phosphor copper with tin plating

Fig. 1

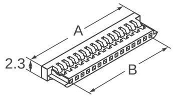


Fig. 2

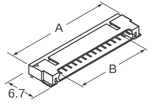


Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Crimping Sockets								
1	2	4.45	1.25	H1563-ND	.54	6.46	19.28	DF14-2S-1.25C
	3	5.70	2.50	H1564-ND	.56	6.69	19.98	DF14-3S-1.25C
	4	6.95	3.75	H1565-ND	.41	6.21	19.46	DF14-4S-1.25C
	5	8.20	5.00	H1566-ND	.43	6.45	20.21	DF14-5S-1.25C
	6	9.45	6.25	H1567-ND	.45	6.68	20.94	DF14-6S-1.25C
	7	10.70	7.50	H1568-ND	.46	6.91	21.64	DF14-7S-1.25C
	8	11.95	8.75	H1569-ND	.48	7.14	22.37	DF14-8S-1.25C
	9	13.20	10.00	H1570-ND	.49	7.38	23.12	DF14-9S-1.25C
	10	14.45	11.25	H1571-ND	.51	7.58	23.76	DF14-10S-1.25C
	15	20.70	17.50	H1572-ND	.55	8.18	25.64	DF14-15S-1.25C
	20	26.95	23.75	H1573-ND	.50	7.46	23.36	DF14-20S-1.25C
	25	33.20	30.00	H1574-ND	.67	10.11	31.68	DF14-25S-1.25C
	30	39.45	36.25	H1575-ND	.60	10.79	35.30	DF14-30S-1.25C
Right Angle Pin Headers (SMT)								
TIn Plating, With Boss								
2	2	7.45	1.25	H1511-ND	1.14	20.63	67.50	DF14-2P-1.25H(20)
	3	8.70	2.50	H1512-ND	1.22	22.00	72.00	DF14-3P-1.25H(20)
	4	9.95	3.75	H1513-ND	1.33	24.06	78.75	DF14-4P-1.25H(20)
	5	11.20	5.00	H1514-ND	1.37	24.75	81.00	DF14-5P-1.25H(20)
	6	12.45	6.25	H1515-ND	1.44	26.13	85.50	DF14-6P-1.25H(20)
	7	13.70	7.50	H1516-ND	1.48	26.81	87.75	DF14-7P-1.25H(20)
	8	14.95	8.75	H1517-ND	1.60	28.88	94.50	DF14-8P-1.25H(20)
	9	16.20	10.00	H1518-ND	1.63	29.56	96.75	DF14-9P-1.25H(20)
	10	17.45	11.25	H1519-ND	1.71	30.94	101.25	DF14-10P-1.25H(20)
	15	23.70	17.50	H1520-ND	1.95	37.50	120.00	DF14-15P-1.25H(20)
	20	29.95	23.75	H1521-ND	2.24	43.13	138.00	DF14-20P-1.25H(20)
	25	36.20	30.00	H1522-ND	2.60	50.00	160.00	DF14-25P-1.25H(20)
	30	42.45	36.25	H1523-ND	2.83	54.38	174.00	DF14-30P-1.25H(20)
TIn Plating, Without Boss								
2	2	7.45	1.25	H1524-ND	1.14	20.63	67.50	DF14A-2P-1.25H(20)
	3	8.70	2.50	H1525-ND	1.22	22.00	72.00	DF14A-3P-1.25H(20)
	4	9.95	3.75	H1526-ND	1.33	24.06	78.75	DF14A-4P-1.25H(20)
	5	11.20	5.00	H1527-ND	1.37	24.75	81.00	DF14A-5P-1.25H(20)
	6	12.45	6.25	H1528-ND	1.44	26.13	85.50	DF14A-6P-1.25H(20)
	7	13.70	7.50	H1529-ND	1.48	26.81	87.75	DF14A-7P-1.25H(20)
	8	14.95	8.75	H1530-ND	1.60	28.88	94.50	DF14A-8P-1.25H(20)
	9	16.20	10.00	H1531-ND	1.63	29.56	96.75	DF14A-9P-1.25H(20)
	10	17.45	11.25	H1532-ND	1.71	30.94	101.25	DF14A-10P-1.25H(20)
	15	23.70	17.50	H1533-ND	1.95	37.50	120.00	DF14A-15P-1.25H(20)
	20	29.95	23.75	H1534-ND	2.24	43.13	138.00	DF14A-20P-1.25H(20)
	25	36.20	30.00	H1535-ND	2.60	50.00	160.00	DF14A-25P-1.25H(20)
	30	42.45	36.25	H1536-ND	2.83	54.38	174.00	DF14A-30P-1.25H(20)
Gold Plating, With Boss								
2	2	7.45	1.25	H1537-ND	1.18	21.31	69.75	DF14-2P-1.25H(50)
	3	8.70	2.50	H1538-ND	1.29	23.38	76.50	DF14-3P-1.25H(50)
	4	9.95	3.75	H1539-ND	1.37	24.75	81.00	DF14-4P-1.25H(50)
	5	11.20	5.00	H1540-ND	1.44	26.13	85.50	DF14-5P-1.25H(50)
	6	12.45	6.25	H1541-ND	1.48	26.81	87.75	DF14-6P-1.25H(50)
	7	13.70	7.50	H1542-ND	1.60	28.88	94.50	DF14-7P-1.25H(50)
	8	14.95	8.75	H1543-ND	1.67	30.25	99.00	DF14-8P-1.25H(50)
	9	16.20	10.00	H1544-ND	1.79	32.31	105.75	DF14-9P-1.25H(50)
	10	17.45	11.25	H1545-ND	1.86	33.69	110.25	DF14-10P-1.25H(50)
	15	23.70	17.50	H1546-ND	2.15	41.25	132.00	DF14-15P-1.25H(50)
	20	29.95	23.75	H1547-ND	2.50	48.13	154.00	DF14-20P-1.25H(50)
	25	36.20	30.00	H1548-ND	2.86	55.00	176.00	DF14-25P-1.25H(50)
	30	42.45	36.25	H1549-ND	3.19	61.25	196.00	DF14-30P-1.25H(50)
Gold Plating, Without Boss								
2	2	7.45	1.25	H1550-ND	1.18	21.31	69.75	DF14A-2P-1.25H(50)
	3	8.70	2.50	H1551-ND	1.29	23.38	76.50	DF14A-3P-1.25H(50)
	4	9.95	3.75	H1552-ND	1.37	24.75	81.00	DF14A-4P-1.25H(50)
	5	11.20	5.00	H1553-ND	1.44	26.13	85.50	DF14A-5P-1.25H(50)
	6	12.45	6.25	H1554-ND	1.48	26.81	87.75	DF14A-6P-1.25H(50)
	7	13.70	7.50	H1555-ND	1.60	28.88	94.50	DF14A-7P-1.25H(50)
	8	14.95	8.75	H1556-ND	1.67	30.25	99.00	DF14A-8P-1.25H(50)
	9	16.20	10.00	H1557-ND	1.79	32.31	105.75	DF14A-9P-1.25H(50)
	10	17.45	11.25	H1558-ND	1.86	33.69	110.25	DF14A-10P-1.25H(50)
	15	23.70	17.50	H1559-ND	2.15	41.25	132.00	DF14A-15P-1.25H(50)
	20	29.95	23.75	H1560-ND	2.50	48.13	154.00	DF14A-20P-1.25H(50)
	25	36.20	30.00	H1561-ND	2.86	55.00	176.00	DF14A-25P-1.25H(50)
	30	42.45	36.25	H1562-ND	3.19	61.25	196.00	DF14A-30P-1.25H(50)

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
26-28 AWG Tin Plating	H1576CT-ND	.48	1.31	2.14	H1576TR-ND	8.80/M	DF14-2628SCF
26-28 AWG Gold Plating	H1577CT-ND	1.34	3.64	5.94	H1577TR-ND	24.42/M	DF14-2628SCFA
30-32 AWG Tin Plating	H1578CT-ND	.58	1.58	2.57	H1578TR-ND	10.57/M	DF14-3032SCF
30-32 AWG Gold Plating	H1579CT-ND	1.34	3.64	5.94	H1579TR-ND	24.42/M	DF14-3032SCFA
Tools							
Manual Crimper for 26-28 AWG	H9949-ND		1218.09 each				DF14-2628/CR-HT
Manual Crimper for 30-32 AWG	H9948-ND		1218.09 each				DF14-3032/CR-HT

DF4 Series Board-In Connectors

2mm Pitch

Features: • Extractable socket and board-in connector provided with the dual-sided harness eliminate one of the two headers required for a dual-sided socket harness, with the board separating function remaining unchanged • Compact and multicontact • Temporary board fixing structure

Applications: • Notebook computers, compact OA equipment

Specifications: • Rated Current: Crimping - 24AWG: 3A, 26AWG: 2A, 28AWG: 1A. ID Termination - wire size 26/28AWG:1A • Operating Temperature: -30°C to 85°C • Rated Voltage: Crimping - AC250V ID termination - AC100V

Material: • Crimp Plug: Insulation, polyimide resin, black, UL94V-0 • Crimp Terminal for Plug: Terminal, brass, tin-plated • ID Termination Plug: • Insulation: Polyimide resin, black, UL94V-0 • Terminal: Phosphor bronze, tin-plated

Fig. 1

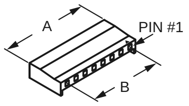


Fig. 2

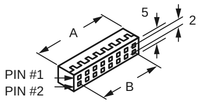


Fig.	No. of Contacts	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Single-Row Crimp Plug								
1	2	4.5	2.0	H2582-ND	.30	3.24	9.13	DF4- 2P-2C
	3	6.5	4.0	H2583-ND	.31	3.36	9.49	DF4- 3P-2C
	4	8.5	6.0	H2584-ND	.32	3.46	9.76	DF4- 4P-2C
	5	10.5	8.0	H2585-ND	.38	4.16	11.74	DF4- 5P-2C
	6	12.5	10.0	H2586-ND	.34	3.72	10.51	DF4- 6P-2C
	7	14.5	12.0	H2587-ND	.35	3.82	10.78	DF4- 7P-2C
	8	16.5	14.0	H2588-ND	.28	3.40	10.15	DF4- 8P-2C
	9	18.5	16.0	H2589-ND	.29	3.43	10.25	DF4- 9P-2C
	10	20.5	18.0	H2590-ND	.30	3.58	10.68	DF4-10P-2C
	11	22.5	20.0	H2591-ND	.31	3.66	10.93	DF4-11P-2C
	12	24.5	22.0	H2592-ND	.31	3.75	11.20	DF4-12P-2C
	13	26.5	24.0	H2593-ND	.32	3.85	11.50	DF4-13P-2C
	14	28.5	26.0	H2594-ND	.33	3.94	11.78	DF4-14P-2C
	15	30.0	28.0	H2595-ND	.34	4.07	12.15	DF4-15P-2C
Double-Row Crimp Plug								
2	4	4.8	2.0	H2596-ND	.44	5.32	15.88	DF4- 4DP-2C
	6	6.8	4.0	H2597-ND	.45	5.44	16.23	DF4- 6DP-2C
	8	8.8	6.0	H2598-ND	.46	5.54	16.55	DF4- 8DP-2C
	10	10.8	8.0	H2599-ND	.47	5.66	16.90	DF4-10DP-2C
	12	12.8	10.0	H2600-ND	.48	5.78	17.25	DF4-12DP-2C
	14	14.8	12.0	H2601-ND	.53	6.35	18.95	DF4-14DP-2C
	16	16.8	14.0	H2602-ND	.54	6.46	19.28	DF4-16DP-2C
	18	18.8	16.0	H2603-ND	.55	6.57	19.63	DF4-18DP-2C
	20	20.8	18.0	H2604-ND	.44	6.66	20.87	DF4-20DP-2C
	22	22.8	20.0	H2605-ND	.45	6.75	21.15	DF4-22DP-2C
	24	24.8	22.0	H2606-ND	.46	6.86	21.50	DF4-24DP-2C
	26	26.8	24.0	H2607-ND	.46	6.96	21.81	DF4-26DP-2C
	28	28.8	26.0	H2608-ND	.50	7.43	23.27	DF4-28DP-2C
	30	30.8	28.0	H2609-ND	.52	7.79	24.39	DF4-30DP-2C
	32	32.8	30.0	H2610-ND	.53	7.94	24.86	DF4-32DP-2C

Crimp Terminal

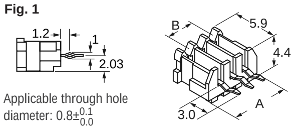
Description	Digi-Key Part No.	*Loose Piece* Pricing 100	Hirose Part No.	*Cut Tape** Pricing 10	50	100	*Tape & Reel* † Pricing 10,000	Hirose Part No.
24-28 AWG Tin Pltg.	H2612-ND	4.22	DF4-2428PC	.68	1.84	3.00	12.36/M	DF4-2428PCF
Tool								
Manual Crimper for Loose Contacts	H9993-ND				935.40 each			DF4-TA2428HC

* For Cut Tape, add "CT" to the Digi-Key Part No. (H2612CT-ND)

† For Tape & Reel, add "TR" to the Digi-Key Part No. (H2612TR-ND)

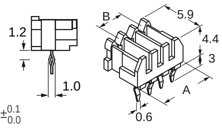
Termination Plugs

Fig. 1



Applicable through hole diameter: $0.8\pm^{0.1}_{0.0}$

Fig. 2



Applicable through hole diameter: $0.8\pm^{0.1}_{0.0}$

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Straight ID								
26 AWG								
1	2	6.0	2.0	H2613-ND	.52	6.26	18.70	DF4- 2P-2R26
	3	8.0	4.0	H2614-ND	.45	6.81	21.34	DF4- 3P-2R26
	4	10.0	6.0	H2615-ND	.53	8.02	25.12	DF4- 4P-2R26
	5	12.0	8.0	H2616-ND	.66	9.97	31.23	DF4- 5P-2R26
	6	14.0	10.0	H2617-ND	.57	10.35	33.89	DF4- 6P-2R26
	7	16.0	12.0	H2618-ND	.63	11.40	37.31	DF4- 7P-2R26
	8	18.0	14.0	H2619-ND	.69	12.51	40.95	DF4- 8P-2R26
	9	20.0	16.0	H2620-ND	.75	13.51	44.21	DF4- 9P-2R26
	10	22.0	18.0	H2621-ND	.81	14.69	48.08	DF4-10P-2R26
	11	24.0	20.0	H2622-ND	.96	17.45	57.11	DF4-11P-2R26
	12	26.0	22.0	H2623-ND	1.02	18.52	60.62	DF4-12P-2R26
	13	28.0	24.0	H2624-ND	1.09	19.73	64.58	DF4-13P-2R26
	14	30.0	26.0	H2625-ND	1.15	20.80	68.09	DF4-14P-2R26
	15	32.0	28.0	H2626-ND	1.21	21.87	71.57	DF4-15P-2R26
28 AWG								
1	2	6.0	2.0	H2627-ND	.52	6.26	18.70	DF4- 2P-2R28
	3	8.0	4.0	H2628-ND	.45	6.81	21.34	DF4- 3P-2R28
	4	10.0	6.0	H2629-ND	.53	8.02	25.12	DF4- 4P-2R28
	5	12.0	8.0	H2630-ND	.66	9.97	31.23	DF4- 5P-2R28
	6	14.0	10.0	H2631-ND	.57	10.35	33.89	DF4- 6P-2R28
	7	16.0	12.0	H2632-ND	.63	11.40	37.31	DF4- 7P-2R28
	8	18.0	14.0	H2633-ND	.69	12.51	40.95	DF4- 8P-2R28
	9	20.0	16.0	H2634-ND	.75	13.51	44.21	DF4- 9P-2R28
	10	22.0	18.0	H2635-ND	.81	14.69	48.08	DF4-10P-2R28

(Continued)

HRS HIROSE ELECTRIC CO.,LTD.

DF4 Series Board-In Connectors *(Cont.)*

2mm Pitch

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
1	11	24.0	20.0	H2636-ND	.96	17.45	57.11	DF4-11P-2R28
	12	26.0	22.0	H2637-ND	1.02	18.52	60.62	DF4-12P-2R28
	13	28.0	24.0	H2638-ND	1.09	19.73	64.58	DF4-13P-2R28
	14	30.0	26.0	H2639-ND	1.15	20.80	68.09	DF4-14P-2R28
	15	32.0	28.0	H2640-ND	1.21	21.87	71.57	DF4-15P-2R28
Right-Angle ID								
26 AWG								
2	2	6.0	2.0	H2641-ND	.55	6.55	19.55	DF4- 2PA-2R26
	3	8.0	4.0	H2642-ND	.44	6.67	20.89	DF4- 3PA-2R26
	4	10.0	6.0	H2643-ND	.52	7.84	24.56	DF4- 4PA-2R26
	5	12.0	8.0	H2644-ND	.51	7.68	24.06	DF4- 5PA-2R26
	6	14.0	10.0	H2645-ND	.73	11.02	34.52	DF4- 6PA-2R26
	7	16.0	12.0	H2646-ND	.61	11.10	36.32	DF4- 7PA-2R26
	8	18.0	14.0	H2647-ND	.67	12.18	39.85	DF4- 8PA-2R26
	9	20.0	16.0	H2648-ND	.73	13.13	42.98	DF4- 9PA-2R26
	10	22.0	18.0	H2649-ND	.79	14.26	46.67	DF4-10PA-2R26
	11	24.0	20.0	H2650-ND	.94	16.99	55.60	DF4-11PA-2R26
	12	26.0	22.0	H2651-ND	1.00	18.02	58.97	DF4-12PA-2R26
	13	28.0	24.0	H2652-ND	1.05	19.04	62.30	DF4-13PA-2R26
	14	30.0	26.0	H2653-ND	1.11	20.06	65.66	DF4-14PA-2R26
	15	32.0	28.0	H2654-ND	1.16	21.07	68.96	DF4-15PA-2R26
28 AWG								
2	2	6.0	2.0	H2655-ND	.51	6.14	18.33	DF4- 2PA-2R28
	3	8.0	4.0	H2656-ND	.44	6.67	20.89	DF4- 3PA-2R28
	4	10.0	6.0	H2657-ND	.52	7.84	24.56	DF4- 4PA-2R28
	5	12.0	8.0	H2658-ND	.65	9.73	30.48	DF4- 5PA-2R28
	6	14.0	10.0	H2659-ND	.73	11.02	34.52	DF4- 6PA-2R28
	7	16.0	12.0	H2660-ND	.61	11.10	36.32	DF4- 7PA-2R28
	8	18.0	14.0	H2661-ND	.67	12.18	39.85	DF4- 8PA-2R28
	9	20.0	16.0	H2662-ND	.73	13.13	42.98	DF4- 9PA-2R28
	10	22.0	18.0	H2663-ND	.82	14.82	48.51	DF4-10PA-2R28
	11	24.0	20.0	H2664-ND	.94	16.99	55.60	DF4-11PA-2R28
	12	26.0	22.0	H2665-ND	1.00	18.02	58.97	DF4-12PA-2R28
	13	28.0	24.0	H2666-ND	1.05	19.04	62.30	DF4-13PA-2R28
	14	30.0	26.0	H2667-ND	1.03	18.62	60.93	DF4-14PA-2R28
	15	32.0	28.0	H2668-ND	1.16	21.07	68.96	DF4-15PA-2R28

DF3 Series Single Row Connectors

2mm Pitch (interconnect wire available)

Specifications: • Maximuim Current Capacity: 3A • Rated Voltage: 250VAC • Insulation Resistance: Min. 1000MΩ at 500VDC • Withstand Voltage: 650VAC • Contact Resistance: Max. 30mΩ at 0.1ADC

Fig. 1

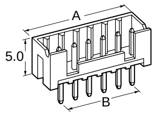


Fig. 2 — SMT

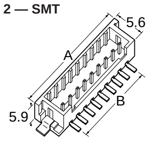


Fig. 3

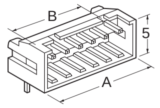


Fig. 4 — SMT

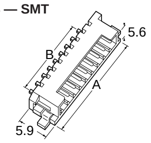


Fig. 5 *NEW!*

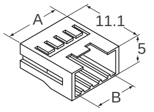


Fig. 6 *NEW!*

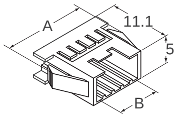


Fig. 7

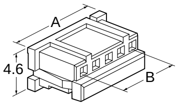


Fig. 8 *NEW!*

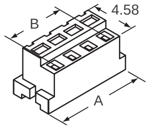


Fig. 9 *NEW!*

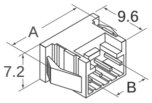
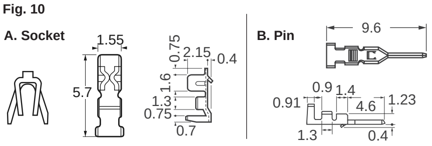


Fig. 10



A. Socket

B. Pin

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
PIN HEADERS *Vertical*								
Tin Plating								
1	2	6	2	H2094-ND	.24	2.58	7.27	DF3A-2P-2DSA
	3	8	4	H2095-ND	.28	3.08	8.69	DF3A-3P-2DSA
	4	10	6	H2096-ND	.33	3.54	9.98	DF3A-4P-2DSA
	5	12	8	H2097-ND	.34	4.08	12.17	DF3A-5P-2DSA
	6	14	10	H2098-ND	.35	4.20	12.55	DF3A-6P-2DSA
	7	16	12	H2099-ND	.37	4.37	13.06	DF3A-7P-2DSA
	8	18	14	H2147-ND	.52	6.16	18.40	DF3A-8P-2DSA
	9	20	16	H2101-ND	.40	6.05	18.96	DF3A-9P-2DSA
	10	22	18	H2102-ND	.43	6.39	20.03	DF3A-10P-2DSA
	11	24	20	H2103-ND	.43	6.52	20.41	DF3A-11P-2DSA
	12	26	22	H2104-ND	.45	6.68	20.92	DF3A-12P-2DSA
	13	28	24	H2293-ND	1.77	32.11	105.08	DF3-13P-2DSA
1	14	30	26	H2294-ND	.71	12.79	41.85	DF3-14P-2DSA
	15	32	28	H2295-ND	.73	13.27	43.43	DF3-15P-2DSA
NEW! Gold Plating NEW!								
1	2	6	2	H3921-ND	.55	6.62	19.75	DF3-2P-2DSA(01)
	3	8	4	H3922-ND	.51	7.58	23.74	DF3-3P-2DSA(01)
	4	10	6	H3923-ND	.60	8.93	27.97	DF3-4P-2DSA(01)
	5	12	8	H3924-ND	.72	10.80	33.84	DF3-5P-2DSA(01)
	6	14	10	H3925-ND	.62	11.21	36.68	DF3-6P-2DSA(01)
	7	16	12	H3926-ND	.69	12.51	40.95	DF3-7P-2DSA(01)
	8	18	14	H3927-ND	.76	13.82	45.23	DF3-8P-2DSA(01)
	9	20	16	H3928-ND	.85	15.33	50.18	DF3-9P-2DSA(01)
	10	22	18	H3929-ND	.93	16.78	54.90	DF3-10P-2DSA(01)
	11	24	20	H3930-ND	1.05	19.04	62.33	DF3-11P-2DSA(01)
	12	26	22	H3931-ND	1.12	20.35	66.60	DF3-12P-2DSA(01)
	13	28	24	H3932-ND	1.20	21.66	70.88	DF3-13P-2DSA(01)
	14	30	26	H3933-ND	1.27	23.03	75.38	DF3-14P-2DSA(01)
	15	32	28	H3934-ND	1.35	24.34	79.65	DF3-15P-2DSA(01)
Vertical With Boss, Surface Mount								
Tin Plating								
2	2	8.5	2	H2116-ND	.62	9.30	29.14	DF3-2P-2V(20)
	3	10.5	4	H2117-ND	.65	9.75	30.55	DF3-3P-2V(20)
	4	12.5	6	H2118-ND	.68	10.20	31.96	DF3-4P-2V(20)
	5	14.5	8	H2119-ND	.73	10.88	34.08	DF3-5P-2V(20)
	6	16.5	10	H2148-ND	.57	10.38	33.98	DF3-6P-2V(20)
	7	18.5	12	H2121-ND	.59	10.73	35.10	DF3-7P-2V(20)
	8	20.5	14	H2122-ND	.62	11.14	36.45	DF3-8P-2V(20)
	9	22.5	16	H2123-ND	.68	12.31	40.28	DF3-9P-2V(20)
	10	24.5	18	H2124-ND	.70	12.72	41.63	DF3-10P-2V(20)
	11	26.5	20	H2125-ND	.76	13.82	45.23	DF3-11P-2V(20)
	12	28.5	22	H2126-ND	.79	14.23	46.58	DF3-12P-2V(20)
	13	30.5	24	H2313-ND	.85	15.33	50.18	DF3-13P-2V(20)
	14	32.5	26	H2314-ND	.89	16.02	52.43	DF3-14P-2V(20)
	15	34.5	28	H2315-ND	.93	16.91	55.35	DF3-15P-2V(20)
NEW! Gold Plating NEW!								
2	2	8.5	2	H3935-ND	.68	12.38	40.50	DF3-2P-2V(50)
	3	10.5	4	H3936-ND	.76	13.75	45.00	DF3-3P-2V(50)
	4	12.5	6	H3937-ND	.87	15.81	51.75	DF3-4P-2V(50)
	5	14.5	8	H3938-ND	.95	17.19	56.25	DF3-5P-2V(50)
	6	16.5	10	H3939-ND	1.03	18.56	60.75	DF3-6P-2V(50)
	7	18.5	12	H3940-ND	1.14	20.63	67.50	DF3-7P-2V(50)
	8	20.5	14	H3941-ND	1.22	22.00	72.00	DF3-8P-2V(50)
	9	22.5	16	H3942-ND	1.37	24.75	81.00	DF3-9P-2V(50)
	10	24.5	18	H3943-ND	1.44	26.13	85.50	DF3-10P-2V(50)
	11	26.5	20	H3944-ND	1.63	29.56	96.75	DF3-11P-2V(50)
	12	28.5	22	H3945-ND	1.71	30.94	101.25	DF3-12P-2V(50)
	13	30.5	24	H3946-ND	1.79	32.31	105.75	DF3-13P-2V(50)
	14	32.5	26	H3947-ND	1.86	33.69	110.25	DF3-14P-2V(50)
	15	34.5	28	H3948-ND	1.72	33.13	106.00	DF3-15P-2V(50)
NEW! Vertical Without Boss, Surface Mount NEW!								
Tin Plating								
2	2	8.5	2	H3949-ND	.68	12.38	40.50	DF3D-2P-2V(20)
	3	10.5	4	H3950-ND	.72	13.06	42.75	DF3D-3P-2V(20)
	4	12.5	6	H3951-ND	.76	13.75	45.00	DF3D-4P-2V(20)
	5	14.5	8	H3952-ND	.84	15.13	49.50	DF3D-5P-2V(20)
	6	16.5	10	H3953-ND	.87	15.81	51.75	DF3D-6P-2V(20)
	7	18.5	12	H3954-ND	.91	16.50	54.00	DF3D-7P-2V(20)
	8	20.5	14	H3955-ND	.95	17.19	56.25	DF3D-8P-2V(20)
	9	22.5	16	H3956-ND	.99	17.88	58.50	DF3D-9P-2V(20)
	10	24.5	18	H3957-ND	1.03	18.56	60.75	DF3D-10P-2V(20)
	11	26.5	20	H3958-ND	1.10	19.94	65.25	DF3D-11P-2V(20)
	12	28.5	22	H3959-ND	1.14	20.63	67.50	DF3D-12P-2V(20)
	13	30.5	24	H3960-ND	1.18	21.31	69.75	DF3D-13P-2V(20)
	14	32.5	26	H3961-ND	1.22	22.00	72.00	DF3D-14P-2V(20)
	15	34.5	28	H3962-ND	1.25	22.69	74.25	DF3D-15P-2V(20)
Gold Plating								
2	2	8.5	2	H3963-ND	.68	12.38	40.50	DF3D-2P-2V(50)
	3	10.5	4	H3964-ND	.76	13.75	45.00	DF3D-3P-2V(50)
	4	12.5	6	H3965-ND	.87	15.81	51.75	DF3D-4P-2V(50)
	5	14.5	8	H3966-ND	.95	17.19	56.25	DF3D-5P-2V(50)
	6	16.5	10	H3967-ND	1.03	18.56	60.75	DF3D-6P-2V(50)
	7	18.5	12	H3968-ND	1.14	20.63	67.50	DF3D-7P-2V(50)
	8	20.5	14	H3969-ND	1.22	22.00	72.00	DF3D-8P-2V(50)
	9	22.5	16	H3970-ND	1.37	24.75	81.00	DF3D-9P-2V(50)
	10	24.5	18	H3971-ND	1.44	26.13	85.50	DF3D-10P-2V(50)
	11	26.5	20	H3972-ND	1.63	29.56	96.75	DF3D-11P-2V(50)
	12	28.5	22	H3973-ND	1.71	30.94	101.25	DF3D-12P-2V(50)
	13	30.5	24	H3974-ND	1.79	32.31	105.75	DF3D-13P-2V(50)
	14	32.5	26	H3975-ND	1.86	33.69	110.25	DF3D-14P-2V(50)
	15	34.5	28	H3976-ND	1.72	33.13	106.00	DF3D-15P-2V(50)
Right Angle								
Tin Plating (post plated contact)								
3	2	6	2	H2105-ND	.38	4.52	13.50	DF3-2P-2DS
	3	8	4	H2106-ND	.44	5.28	15.75	DF3-3P-2DS
	4	10	6	H2107-ND	.48	5.78	17.25	DF3-4P-2DS
	5	12	8	H2108-ND	.42	6.23	19.51	DF3-5P-2DS
	6	14	10	H2109-ND	.44	6.60	20.68	DF3-6P-2DS
	7	16	12	H2110-ND	.48	7.13	22.33	DF3-7P-2DS
	8	18	14	H2111-ND	.50	7.50	23.50	DF3-8P-2DS
	9	20	16	H2112-ND	.57	8.48	26.56	DF3-9P-2DS
	10	22	18	H2113-ND	.60	8.93	27.97	DF3-10P-2DS
	11	24	20	H2114-ND	.70	10.50	32.90	DF3-11P-2DS
	12	26	22	H2115-ND	.73	10.95	34.31	DF3-12P-2DS
	13	28	24	H2310-ND	.58	10.45	34.20	DF3-13P-2DS
	14	30	26	H2311-ND	.60	10.93	35.78	DF3-14P-2DS
	15	32	28	H2312-ND	.63	11.34	37.13	DF3-15P-2DS
NEW! Tin Plating (pre-plated contact) NEW!								
3	2	6	2	H3893-ND	.27	2.93	8.25	DF3A-2P-2DS
	3	8	4	H3894-ND	.33	3.61	10.18	DF3A-3P-2DS
	4	10	6	H3895-ND	.30	3.60	10.75	DF3A-4P-2DS
	5	12	8	H3896-ND	.39	4.69	14.00	DF3A-5P-2DS
	6	14	10	H3897-ND	.41	4.94	14.75	DF3A-6P-2DS
	7	16	12	H3898-ND	.45	5.36	16.00	DF3A-7P-2DS
	8	18	14	H3899-ND	.42	6.30	19.74	DF3A-8P-2DS
	9	20	16	H3900-ND	.46	6.83	21.39	DF3A-9P-2DS
	10	22	18	H3901-ND	.48	7.13	22.33	DF3A-10P-2DS

(Continued)

DF3 Series Single Row Connectors *(Cont.)*

2mm Pitch (interconnect wire available)

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
3	11	24	20	H3902-ND	.50	7.43	23.27	DF3A-11P-2DS
	12	26	22	H3903-ND	.52	7.73	24.21	DF3A-12P-2DS
	13	28	24	H3904-ND	.54	8.03	25.15	DF3A-13P-2DS
	14	30	26	H3905-ND	.55	8.25	25.85	DF3A-14P-2DS
	15	32	28	H3906-ND	.57	8.55	26.79	DF3A-15P-2DS
NEW! Gold Plating NEW!								
3	2	6	2	H3907-ND	.46	6.83	21.39	DF3-2P-2DS(01)
	3	8	4	H3908-ND	.59	8.78	27.50	DF3-3P-2DS(01)
	4	10	6	H3909-ND	.70	10.43	32.67	DF3-4P-2DS(01)
	5	12	8	H3910-ND	.65	11.76	38.48	DF3-5P-2DS(01)
	6	14	10	H3911-ND	.73	13.27	43.43	DF3-6P-2DS(01)
	7	16	12	H3912-ND	.82	14.85	48.60	DF3-7P-2DS(01)
	8	18	14	H3913-ND	.90	16.36	53.55	DF3-8P-2DS(01)
	9	20	16	H3914-ND	1.02	18.43	60.30	DF3-9P-2DS(01)
	10	22	18	H3915-ND	1.11	20.01	65.48	DF3-10P-2DS(01)
	11	24	20	H3916-ND	1.25	22.69	74.25	DF3-11P-2DS(01)
	12	26	22	H3917-ND	1.34	24.27	79.43	DF3-12P-2DS(01)
	13	28	24	H3918-ND	1.43	25.78	84.38	DF3-13P-2DS(01)
	14	30	26	H3919-ND	1.52	27.43	89.78	DF3-14P-2DS(01)
	15	32	28	H3920-ND	1.60	28.94	94.73	DF3-15P-2DS(01)
Right Angle With Boss, Surface Mount								
Tin Plating								
4	2	8.5	2	H2127-ND	.63	9.45	29.61	DF3-2P-2H(20)
	3	10.5	4	H2128-ND	.66	9.90	31.02	DF3-3P-2H(20)
	4	12.5	6	H2129-ND	.69	10.35	32.43	DF3-4P-2H(20)
	5	14.5	8	H2130-ND	.74	11.03	34.55	DF3-5P-2H(20)
	6	16.5	10	H2131-ND	.58	10.52	34.43	DF3-6P-2H(20)
	7	18.5	12	H2149-ND	.60	10.93	35.78	DF3-7P-2H(20)
	8	20.5	14	H2133-ND	.63	11.34	37.13	DF3-8P-2H(20)
	9	22.5	16	H2134-ND	.69	12.51	40.95	DF3-9P-2H(20)
	10	24.5	18	H2135-ND	.71	12.93	42.30	DF3-10P-2H(20)
	11	26.5	20	H2136-ND	.78	14.09	46.13	DF3-11P-2H(20)
	12	28.5	22	H2137-ND	.80	14.44	47.25	DF3-12P-2H(20)
	13	30.5	24	H2316-ND	.86	15.61	51.08	DF3-13P-2H(20)
	14	32.5	26	H2317-ND	.90	16.29	53.33	DF3-14P-2H(20)
	15	34.5	28	H2318-ND	.95	17.26	56.48	DF3-15P-2H(20)
NEW! Gold Plating NEW!								
4	2	8.5	2	H3977-ND	1.79	34.38	110.00	DF3-2P-2H(50)
	3	10.5	4	H3978-ND	1.95	37.50	120.00	DF3-3P-2H(50)
	4	12.5	6	H3979-ND	2.15	41.25	132.00	DF3-4P-2H(50)
	5	14.5	8	H3980-ND	2.37	45.63	146.00	DF3-5P-2H(50)
	6	16.5	10	H3981-ND	2.54	48.75	156.00	DF3-6P-2H(50)
	7	18.5	12	H3982-ND	2.73	52.50	168.00	DF3-7P-2H(50)
	8	20.5	14	H3983-ND	2.93	56.25	180.00	DF3-8P-2H(50)
	9	22.5	16	H3984-ND	3.15	60.63	194.00	DF3-9P-2H(50)
	10	24.5	18	H3985-ND	2.99	57.94	185.40	DF3-10P-2H(50)
	11	26.5	20	H3986-ND	3.16	61.31	196.20	DF3-11P-2H(50)
	12	28.5	22	H3987-ND	3.28	63.56	203.40	DF3-12P-2H(50)
	13	30.5	24	H3988-ND	3.19	61.25	196.00	DF3-13P-2H(50)
	14	32.5	26	H3989-ND	3.63	70.31	225.00	DF3-14P-2H(50)
	15	34.5	28	H3990-ND	3.80	73.69	235.80	DF3-15P-2H(50)
NEW! Right Angle Without Boss, Surface Mount NEW!								
Tin Plating								
4	2	8.5	2	H3991-ND	.68	12.38	40.50	DF3D-2P-2H(20)
	3	10.5	4	H3992-ND	.72	13.06	42.75	DF3D-3P-2H(20)
	4	12.5	6	H3993-ND	.76	13.75	45.00	DF3D-4P-2H(20)
	5	14.5	8	H3994-ND	.84	15.13	49.50	DF3D-5P-2H(20)
	6	16.5	10	H3995-ND	.87	15.81	51.75	DF3D-6P-2H(20)
	7	18.5	12	H3996-ND	.91	16.50	54.00	DF3D-7P-2H(20)
	8	20.5	14	H3997-ND	.95	17.19	56.25	DF3D-8P-2H(20)
	9	22.5	16	H3998-ND	.99	17.88	58.50	DF3D-9P-2H(20)
	10	24.5	18	H3999-ND	1.03	18.56	60.75	DF3D-10P-2H(20)
	11	26.5	20	H4000-ND	1.10	19.94	65.25	DF3D-11P-2H(20)
	12	28.5	22	H4001-ND	1.14	20.63	67.50	DF3D-12P-2H(20)
	13	30.5	24	H4002-ND	1.18	21.31	69.75	DF3D-13P-2H(20)
	14	32.5	26	H4003-ND	1.22	22.00	72.00	DF3D-14P-2H(20)
	15	34.5	28	H4004-ND	1.25	22.69	74.25	DF3D-15P-2H(20)
Gold Plating								
4	2	8.5	2	H4005-ND	1.79	34.38	110.00	DF3D-2P-2H(50)
	3	10.5	4	H4006-ND	1.98	38.13	122.00	DF3D-3P-2H(50)
	4	12.5	6	H4007-ND	2.15	41.25	132.00	DF3D-4P-2H(50)
	5	14.5	8	H4008-ND	2.37	45.63	146.00	DF3D-5P-2H(50)
	6	16.5	10	H4009-ND	2.54	48.75	156.00	DF3D-6P-2H(50)
	7	18.5	12	H4010-ND	2.73	52.50	168.00	DF3D-7P-2H(50)
	8	20.5	14	H4011-ND	2.93	56.25	180.00	DF3D-8P-2H(50)
	9	22.5	16	H4012-ND	3.15	60.63	194.00	DF3D-9P-2H(50)
	10	24.5	18	H4013-ND	2.99	57.94	185.40	DF3D-10P-2H(50)
	11	26.5	20	H4014-ND	3.16	61.31	196.20	DF3D-11P-2H(50)
	12	28.5	22	H4015-ND	3.28	63.56	203.40	DF3D-12P-2H(50)
	13	30.5	24	H4016-ND	3.45	66.94	214.20	DF3D-13P-2H(50)
	14	32.5	26	H4017-ND	3.63	70.31	225.00	DF3D-14P-2H(50)
	15	34.5	28	H4018-ND	3.80	73.69	235.80	DF3D-15P-2H(50)
NEW! IN-LINE PLUG NEW! *(order contacts seperately)*								
5	2	6	2	H4035-ND	.31	3.69	11.00	DF3-2EP-2C
	3	8	4	H4036-ND	.35	4.19	12.50	DF3-3EP-2C
	4	10	6	H4037-ND	.39	4.61	13.75	DF3-4EP-2C
	5	12	8	H4038-ND	.42	5.03	15.00	DF3-5EP-2C
	6	14	10	H4039-ND	.46	5.44	16.25	DF3-6EP-2C
	7	16	12	H4040-ND	.51	6.11	18.25	DF3-7EP-2C
	8	18	14	H4041-ND	.55	6.62	19.75	DF3-8EP-2C
	9	20	16	H4042-ND	.41	6.15	19.27	DF3-9EP-2C
	10	22	18	H4043-ND	.45	6.68	20.92	DF3-10EP-2C
	11	24	20	H4045-ND	.46	6.90	21.62	DF3-11EP-2C
	12	26	22	H4046-ND	.50	7.50	23.50	DF3-12EP-2C
	13	28	24	H4047-ND	.52	7.80	24.44	DF3-13EP-2C
	14	30	26	H4048-ND	.55	8.25	25.85	DF3-14EP-2C
	15	32	28	H4049-ND	.42	6.23	19.51	DF3-15EP-2C
With Panel Lock								
6	2	11	2	H4051-ND	.36	4.36	13.00	DF3AA-2EP-2C
	3	13	4	H4052-ND	.42	5.03	15.00	DF3AA-3EP-2C
	4	15	6	H4053-ND	.46	5.44	16.25	DF3AA-4EP-2C
	5	17	8	H4054-ND	.50	5.95	17.75	DF3AA-5EP-2C
6	6	19	10	H4055-ND	.54	6.45	19.25	DF3AA-6EP-2C
	7	21	12	H4056-ND	.42	6.23	19.51	DF3AA-7EP-2C
	8	23	14	H4057-ND	.45	6.68	20.92	DF3AA-8EP-2C
	9	25	16	H4058-ND	.48	7.13	22.33	DF3AA-9EP-2C
	10	27	18	H4059-ND	.51	7.58	23.74	DF3AA-10EP-2C
	11	29	20	H4060-ND	.54	8.03	25.15	DF3AA-11EP-2C
	12	31	22	H4061-ND	.57	8.48	26.56	DF3AA-12EP-2C
	13	33	24	H4062-ND	.60	8.93	27.97	DF3AA-13EP-2C
	14	35	26	H4063-ND	.62	9.30	29.14	DF3AA-14EP-2C
	15	37	28	H4065-ND	.66	9.83	30.79	DF3AA-15EP-2C
CRIMP SOCKET *(order contacts seperately)*								
7	2	6	2	H2083-ND	.26	2.83	7.98	DF3-2S-2C
	3	8	4	H2084-ND	.28	3.02	8.53	DF3-3S-2C
	4	10	6	H2085-ND	.28	3.02	8.53	DF3-4S-2C
	5	12	8	H2086-ND	.30	3.22	9.08	DF3-5S-2C
	6	14	10	H2087-ND	.31	3.32	9.35	DF3-6S-2C
	7	16	12	H2088-ND	.32	3.51	9.90	DF3-7S-2C
	8	18	14	H2089-ND	.32	3.51	9.90	DF3-8S-2C
	9	20	16	H2146-ND	.28	3.35	10.00	DF3-9S-2C
	10	22	18	H2091-ND	.29	3.52	10.50	DF3-10S-2C
	11	24	20	H2092-ND	.30	3.60	10.75	DF3-11S-2C
	12	26	22	H2093-ND	.32	3.77	11.25	DF3-12S-2C
	13	28	24	H2290-ND	.32	3.77	11.25	DF3-13S-2C
	14	30	26	H2291-ND	.35	4.19	12.50	DF3-14S-2C
	15	32	28	H2292-ND	.35	4.19	12.50	DF3-15S-2C
NEW! RECEPTACLE NEW!								
Tin Plating								
8	2	6	2	H3865-ND	.65	11.69	38.25	DF3-2S-2DSA(20)
	3	8	4	H3866-ND	.76	13.75	45.00	DF3-3S-2DSA(20)
	4	10	6	H3867-ND	.87	15.81	51.75	DF3-4S-2DSA(20)
	5	12	8	H3868-ND	.99	17.88	58.50	DF3-5S-2DSA(20)
	6	14	10	H3869-ND	1.10	19.94	65.25	DF3-6S-2DSA(20)
	7	16	12	H3870-ND	1.18	21.31	69.75	DF3-7S-2DSA(20)
	8	18	14	H3871-ND	1.25	22.69	74.25	DF3-8S-2DSA(20)
	9	20	16	H3872-ND	1.44	26.13	85.50	DF3-9S-2DSA(20)
	10	22	18	H3873-ND	1.56	28.19	92.25	DF3-10S-2DSA(20)
	11	24	20	H3874-ND	1.63	29.56	96.75	DF3-11S-2DSA(20)
	12	26	22	H3875-ND	1.79	32.31	105.75	DF3-12S-2DSA(20)
	13	28	24	H3876-ND	1.86	33.69	110.25	DF3-13S-2DSA(20)
	14	30	26	H3877-ND	1.72	33.13	106.00	DF3-14S-2DSA(20)
	15	32	28	H3878-ND	2.15	41.25	132.00	DF3-15S-2DSA(20)
Gold Plating								
8	2	6	2	H3879-ND	.76	13.75	45.00	DF3-2S-2DSA(50)
	3	8	4	H3880-ND	.99	17.88	58.50	DF3-3S-2DSA(50)
	4	10	6	H3881-ND	1.14	20.63	67.50	DF3-4S-2DSA(50)
	5	12	8	H3882-ND	1.33	24.06	78.75	DF3-5S-2DSA(50)
	6	14	10	H3883-ND	1.48	26.81	87.75	DF3-6S-2DSA(50)
	7	16	12	H3884-ND	1.67	30.25	99.00	DF3-7S-2DSA(50)
	8	18	14	H3885-ND	1.82	33.00	108.00	DF3-8S-2DSA(50)
	9	20	16	H3886-ND	1.76	33.75	108.00	DF3-9S-2DSA(50)
	10	22	18	H3887-ND	1.92	36.88	118.00	DF3-10S-2DSA(50)
	11	24	20	H3888-ND	2.05	39.38	126.00	DF3-11S-2DSA(50)
	12	26	22	H3889-ND	2.21	42.50	136.00	DF3-12S-2DSA(50)
	13	28	24	H3890-ND	2.37	45.63	146.00	DF3-13S-2DSA(50)
	14	30	26	H3891-ND	2.54	48.75	156.00	DF3-14S-2DSA(50)
	15	32	28	H3892-ND	3.02	58.13	186.00	DF3-15S-2DSA(50)
NEW! ADAPTER NEW! *IN-LINE WITH PANEL LOCK*								
9	2	11	2	H4019-ND	.74	11.03	34.55	DF3-2EP-2A
	3	13	4	H4021-ND	.62	11.28	36.90	DF3-3EP-2A
	4	15	6	H4022-ND	.69	12.51	40.95	DF3-4EP-2A
	5	17	8	H4023-ND	.76	13.68	44.78	DF3-5EP-2A
	6	19	10	H4024-ND	.83	15.06	49.28	DF3-6EP-2A
	7	21	12	H4025-ND	.90	16.29	53.33	DF3-7EP-2A
	8	23	14	H4026-ND	.97	17.46	57.15	DF3-8EP-2A
	9	25	16	H4027-ND	1.03	18.63	60.98	DF3-9EP-2A
	10	27	18	H4028-ND	1.10	19.87	65.03	DF3-10EP-2A
	11	29	20	H4029-ND	1.16	21.04	68.85	DF3-11EP-2A
	12	31	22	H4030-ND	1.24	22.41	73.35	DF3-12EP-2A
	13	33	24	H4031-ND	1.30	23.58	77.18	DF3-13EP-2A
	14	35	26	H4033-ND	1.37	24.75	81.00	DF3-14EP-2A
	15	37	28	H4034-ND	1.44	25.99	85.05	DF3-15EP-2A

Crimping Contacts

AWG	Digi-Key Part No.	*Bulk* Pricing 100	Hirose Part No.	*Cut Tape** Pricing		*T & R†* Pricing 10,000	Hirose Part No.
				100	500		
Plug Contacts - Fig. 10A							
Tin Plating							
24-28	H1502-ND *NEW!*	4.87	DF3-EP2428PC	3.65	12.35	15.00/M	DF3-EP2428PCF
Gold Plating							
24-28	H1503-ND *NEW!*	19.88	DF3-EP2428PCA	10.69	36.93	48.59/M	DF3-EP2428PCFA
Socket Contacts - Fig. 10B							
Tin Plating							
22	H4066-ND *NEW!*	6.20	DF3-22SC	3.41	11.55	14.03/M	DF3-22SCF
24-28	H1500-ND *NEW!*	3.57	DF3-2428SC	1.86	6.30	7.65/M	DF3-2428SCF
Gold Plating							
24-28	H1501-ND *NEW!*	10.67	DF3-2428SCC	7.44	25.20	30.60/M	DF3-2428SCFC

* For Cut Tape, add “CT” to the Digi-Key Part No. (H1502CT-ND)

† For Tape & Reel, add “TR” to the Digi-Key Part No. (H1502TR-ND)

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Hand Crimp Tool for Socket, with Non-Removeable Die	H9997-ND	665.13	DF3-TA2428HC
Hand Crimp Tool for Pin, with Non-Removeable Die	H2308-ND	797.39	DF3EP-TA2428HC
Hand Crimp Tool with Die Set	H9923-ND *NEW!*	571.90	DF3-TA2428HC/US
Hand Tool without Die Set	H9926-ND *NEW!*	332.50	HRUS-HT-1
Die Set for H9926-ND	H9927-ND *NEW!*	239.40	DF3-TA2428HC/US-DS

HIROSE ELECTRIC CO.,LTD.

A3 & A4 Series Crimp Connector

2mm Pitch

These connectors are designed in a miniature and light weight product, and mounted in the high density. The crimping case is structured in the 2mm pitch grid. **Specifications:** • Current Rating: 1A • Voltage Rating: 200VAC • Operating Temperature: -55°C to +85°C • Operating Moisture Range: 40 to 80% • Insulation Resistance: 1000MΩ min. at 500VDC • Withstanding Voltage: 650VAC/1 minute (no flashover or insulation breakdown) • Contact Resistance: 15mΩ max. @ 0.1A **Applications:** • VTR • Vehicle telephones • Various electronic equipment **Material:** • Insulator Pin Header: black polyamid, UL94V-0 • Insulator Receptacle: black PBT, UL94V-0 • Insulator Pin Header (SMT) and Receptacle (SMT): light brown PPS • Insulator Crimping Socket: black PBT • Pin Header Contact: Brass with selective gold plating • Receptacle and Crimping Contact: phosphor bronze with selective gold plating

Fig. 1 *NEW!*

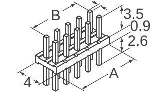


Fig. 2 *NEW!*

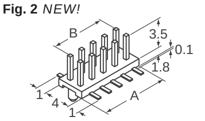


Fig. 3 *NEW!*

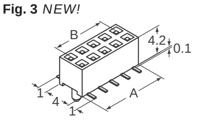


Fig. 4 *NEW!*

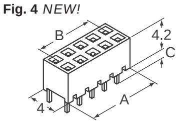
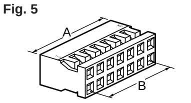
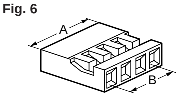


Fig. 5



A3B

Fig. 6



A4B

Fig. 7

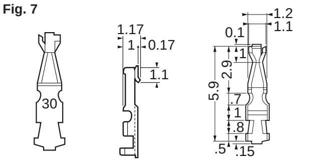


Fig. 8 ***Note:*** For use with all series.

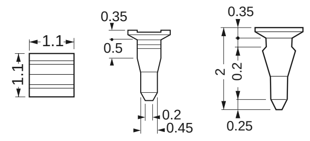


Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
NEW! Pin Header NEW!								
Low Profile - TIn Plating								
1	2	2.0	—	H1807-ND	.61	11.00	36.00	A3C-2P-2DSA
	4	4.0	2.0	H1808-ND	.84	15.13	49.50	A3C-4P-2DSA
	6	6.0	4.0	H1809-ND	1.18	21.31	69.75	A3C-6P-2DSA
	8	8.0	6.0	H1810-ND	1.41	25.44	83.25	A3C-8P-2DSA
	10	10.0	8.0	H1811-ND	1.82	33.00	108.00	A3C-10P-2DSA
	12	12.0	10.0	H1812-ND	1.92	36.88	118.00	A3C-12P-2DSA
	14	14.0	12.0	H1813-ND	2.05	39.38	126.00	A3C-14P-2DSA
	16	16.0	14.0	H1814-ND	2.54	48.75	156.00	A3C-16P-2DSA
	18	18.0	16.0	H1815-ND	2.63	50.63	162.00	A3C-18P-2DSA
	20	20.0	18.0	H1816-ND	3.28	63.56	203.40	A3C-20P-2DSA
	22	22.0	20.0	H1817-ND	3.39	65.81	210.60	A3C-22P-2DSA
	24	24.0	22.0	H1818-ND	3.45	66.94	214.20	A3C-24P-2DSA
	26	26.0	24.0	H1819-ND	3.51	68.06	217.80	A3C-26P-2DSA
	28	28.0	26.0	H1820-ND	3.57	69.19	221.40	A3C-28P-2DSA
	32	32.0	30.0	H1821-ND	3.97	77.06	246.60	A3C-32P-2DSA
	44	44.0	42.0	H1822-ND	3.97	77.06	246.60	A3C-44P-2DSA
	48	48.0	46.0	H1823-ND	3.97	77.06	246.60	A3C-48P-2DSA
	50	50.0	48.0	H1824-ND	3.97	77.06	246.60	A3C-50P-2DSA
Without Boss - Gold Plating								
2	4	4.0	2.0	H1781-ND	.99	17.88	58.50	A3-4PA-2SV
	6	6.0	4.0	H1782-ND	1.10	19.94	65.25	A3-6PA-2SV
	8	8.0	6.0	H1783-ND	1.25	22.69	74.25	A3-8PA-2SV
	10	10.0	8.0	H1784-ND	1.37	24.75	81.00	A3-10PA-2SV
	12	12.0	10.0	H1785-ND	1.48	26.81	87.75	A3-12PA-2SV
	14	14.0	12.0	H1786-ND	1.60	28.88	94.50	A3-14PA-2SV
	16	16.0	14.0	H1787-ND	1.79	32.31	105.75	A3-16PA-2SV
	20	20.0	18.0	H1788-ND	1.72	33.13	106.00	A3-20PA-2SV
	24	24.0	22.0	H1789-ND	2.05	39.38	126.00	A3-24PA-2SV
	28	28.0	26.0	H1790-ND	2.41	46.25	148.00	A3-28PA-2SV
	32	32.0	30.0	H1791-ND	2.73	52.50	168.00	A3-32PA-2SV
	44	44.0	42.0	H1792-ND	3.36	65.25	208.80	A3-44PA-2SV
	50	50.0	48.0	H1793-ND	3.80	73.69	235.80	A3-50PA-2SV
With Boss - Gold Plating								
2	4	4.0	2.0	H1794-ND	.99	17.88	58.50	A3A-4PA-2SV
	6	6.0	4.0	H1795-ND	1.10	19.94	65.25	A3A-6PA-2SV
	8	8.0	6.0	H1796-ND	1.25	22.69	74.25	A3A-8PA-2SV
	10	10.0	8.0	H1797-ND	1.37	24.75	81.00	A3A-10PA-2SV
	12	12.0	10.0	H1798-ND	1.48	26.81	87.75	A3A-12PA-2SV
	14	14.0	12.0	H1799-ND	1.60	28.88	94.50	A3A-14PA-2SV
	16	16.0	14.0	H1800-ND	1.79	32.31	105.75	A3A-16PA-2SV
	20	20.0	18.0	H1801-ND	1.72	33.13	106.00	A3A-20PA-2SV
	24	24.0	22.0	H1802-ND	2.05	39.38	126.00	A3A-24PA-2SV
	28	28.0	26.0	H1803-ND	2.41	46.25	148.00	A3A-28PA-2SV
	32	32.0	30.0	H1804-ND	2.73	52.50	168.00	A3A-32PA-2SV
	44	44.0	42.0	H1805-ND	3.36	65.25	208.80	A3A-44PA-2SV
	50	50.0	48.0	H1806-ND	3.80	73.69	235.80	A3A-50PA-2SV
NEW! Receptacle NEW!								
Without Boss - Gold Plating - SMD								
3	4	4.0	2.0	H1827-ND	.84	15.13	49.50	A3-4DA-2SV
	6	6.0	4.0	H1828-ND	.95	17.19	56.25	A3-6DA-2SV
	8	8.0	6.0	H1829-ND	1.10	19.94	65.25	A3-8DA-2SV
	10	10.0	8.0	H1830-ND	1.25	22.69	74.25	A3-10DA-2SV
	12	12.0	10.0	H1831-ND	1.41	25.44	83.25	A3-12DA-2SV
	14	14.0	12.0	H1832-ND	1.56	28.19	92.25	A3-14DA-2SV
	16	16.0	14.0	H1833-ND	1.67	30.25	99.00	A3-16DA-2SV
	20	20.0	18.0	H1834-ND	1.72	33.13	106.00	A3-20DA-2SV
	24	24.0	22.0	H1835-ND	2.05	39.38	126.00	A3-24DA-2SV
	28	28.0	26.0	H1836-ND	2.41	46.25	148.00	A3-28DA-2SV
	32	32.0	30.0	H1837-ND	2.86	55.00	176.00	A3-32DA-2SV
With Boss - Gold Plating - SMD								
3	4	4.0	2.0	H1838-ND	.84	15.13	49.50	A3A-4DA-2SV
	6	6.0	4.0	H1839-ND	.95	17.19	56.25	A3A-6DA-2SV
	8	8.0	6.0	H1840-ND	1.10	19.94	65.25	A3A-8DA-2SV
	10	10.0	8.0	H1841-ND	1.25	22.69	74.25	A3A-10DA-2SV
3	12	12.0	10.0	H1842-ND	1.41	25.44	83.25	A3A-12DA-2SV
	14	14.0	12.0	H1843-ND	1.56	28.19	92.25	A3A-14DA-2SV
	16	16.0	14.0	H1844-ND	1.67	30.25	99.00	A3A-16DA-2SV
	20	20.0	18.0	H1845-ND	1.72	33.13	106.00	A3A-20DA-2SV
	24	24.0	22.0	H1846-ND	2.05	39.38	126.00	A3A-24DA-2SV
	28	28.0	26.0	H1847-ND	2.41	46.25	148.00	A3A-28DA-2SV
	32	32.0	30.0	H1848-ND	2.86	55.00	176.00	A3A-32DA-2SV

Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Price Each			Hirose Part No.
		A	B	C		1	25	100	
NEW! Pin Headers - Gold Plating NEW!									
4	4	4.0	2.0	3.0	H1849-ND	1.71	30.94	101.25	A3C-4DA-2DSA
		4.0	2.0	2.0	H1862-ND	1.71	30.94	101.25	A3C-4DA-2DSC
		4.0	2.0	1.27	H1878-ND	.61	11.00	36.00	A3D-4DA-2DSE
	6	6.0	4.0	3.0	H1850-ND	1.86	33.69	110.25	A3C-6DA-2DSA
		6.0	4.0	2.0	H1863-ND	1.86	33.69	110.25	A3C-6DA-2DSC
		6.0	4.0	1.27	H1879-ND	.76	13.75	45.00	A3D-6DA-2DSE
	8	8.0	6.0	3.0	H1851-ND	1.72	33.13	106.00	A3C-8DA-2DSA
		8.0	6.0	2.0	H1864-ND	1.72	33.13	106.00	A3C-8DA-2DSC
		8.0	6.0	1.27	H1880-ND	.91	16.50	54.00	A3D-8DA-2DSE
	10	10.0	8.0	3.0	H1852-ND	1.85	35.63	114.00	A3C-10DA-2DSA
		10.0	8.0	2.0	H1865-ND	1.85	35.63	114.00	A3C-10DA-2DSC
		10.0	8.0	1.27	H1881-ND	.99	17.88	58.50	A3D-10DA-2DSE
	12	12.0	10.0	3.0	H1853-ND	1.95	37.50	120.00	A3C-12DA-2DSA
		12.0	10.0	2.0	H1866-ND	1.95	37.50	120.00	A3C-12DA-2DSC
		12.0	10.0	1.27	H1882-ND	1.18	21.31	69.75	A3D-12DA-2DSE
	14	14.0	12.0	3.0	H1854-ND	2.02	38.75	124.00	A3C-14DA-2DSA
		14.0	12.0	2.0	H1867-ND	2.02	38.75	124.00	A3C-14DA-2DSC
		14.0	12.0	1.27	H1883-ND	1.41	25.44	83.25	A3D-14DA-2DSE
	16	16.0	14.0	3.0	H1855-ND	2.11	40.63	130.00	A3C-16DA-2DSA
		16.0	14.0	2.0	H1868-ND	2.11	40.63	130.00	A3C-16DA-2DSC
		16.0	14.0	1.27	H1884-ND	1.48	26.81	87.75	A3D-16DA-2DSE
	18	18.0	16.0	3.0	H1856-ND	2.21	42.50	136.00	A3C-18DA-2DSA
		18.0	16.0	2.0	H1869-ND	2.21	42.50	136.00	A3C-18DA-2DSC
		18.0	16.0	1.27	H1885-ND	1.82	33.00	108.00	A3D-18DA-2DSE
	20	20.0	18.0	3.0	H1857-ND	2.28	43.75	140.00	A3C-20DA-2DSA
		20.0	18.0	2.0	H1870-ND	2.28	43.75	140.00	A3C-20DA-2DSC
		20.0	18.0	1.27	H1886-ND	1.72	33.13	106.00	A3D-20DA-2DSE
	24	24.0	22.0	3.0	H1858-ND	2.44	46.88	150.00	A3C-24DA-2DSA
		24.0	22.0	2.0	H1871-ND	2.44	46.88	150.00	A3C-24DA-2DSC
		24.0	22.0	1.27	H1875-ND	2.44	46.88	150.00	A3C-24DA-2DSE
	28	28.0	26.0	3.0	H1859-ND	2.67	51.25	164.00	A3C-28DA-2DSA
		28.0	26.0	2.0	H1872-ND	2.67	51.25	164.00	A3C-28DA-2DSC
		28.0	26.0	1.27	H1887-ND	2.41	46.25	148.00	A3D-28DA-2DSE
	32	32.0	30.0	3.0	H1860-ND	2.83	54.38	174.00	A3C-32DA-2DSA
		32.0	30.0	2.0	H1873-ND	2.83	54.38	174.00	A3C-32DA-2DSC
		32.0	30.0	1.27	H1876-ND	2.83	54.38	174.00	A3C-32DA-2DSE
	50	50.0	48.0	3.0	H1861-ND	3.94	76.50	244.80	A3C-50DA-2DSA
		50.0	48.0	2.0	H1874-ND	3.97	77.06	246.60	A3C-50DA-2DSC
		50.0	48.0	1.27	H1877-ND	3.97	77.06	246.60	A3C-50DA-2DSE
	44	44.0	42.0	1.27	H1888-ND	3.12	60.00	192.00	A3D-44DA-2DSE
	62	62.0	60.0	1.27	H1889-ND	4.15	80.44	257.40	A3D-62DA-2DSE

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Dual Row Crimp Socket - A3B Series								
5	4	4.0	2.0	H2001-ND	.47	5.61	16.75	A3B-4D-2C
	6	6.0	4.0	H2002-ND	.50	5.95	17.75	A3B-6D-2C
	8	8.0	6.0	H2003-ND	.53	6.28	18.75	A3B-8D-2C
	10	10.0	8.0	H2004-ND	.55	6.62	19.75	A3B-10D-2C
	12	12.0	10.0	H2005-ND	.42	6.23	19.51	A3B-12D-2C
	14	14.0	12.0	H2006-ND	.44	6.53	20.45	A3B-14D-2C
	18	18.0	16.0	H2007-ND	.46	6.90	21.62	A3B-18D-2C
	20	20.0	18.0	H2008-ND	.48	7.20	22.56	A3B-20D-2C
	24	24.0	22.0	H2009-ND	.51	7.65	23.97	A3B-24D-2C
	28	28.0	26.0	H2010-ND	.54	8.03	25.15	A3B-28D-2C
Single Row Crimp Socket - A4B Series								
6	2	4.0	2.0	H2011-ND	.46	5.44	16.25	A4B-2S-2C
	3	6.0	4.0	H2012-ND	.46	5.53	16.50	A4B-3S-2C
	4	8.0	6.0	H2013-ND	.47	5.61	16.75	A4B-4S-2C
	5	10.0	8.0	H2014-ND	.48	5.70	17.00	A4B-5S-2C
	6	12.0	10.0	H2015-ND	.48	5.78	17.25	A4B-6S-2C
	8	16.0	14.0	H2016-ND	.50	6.03	18.00	A4B-8S-2C
	10	20.0	18.0	H2017-ND	.52	6.20	18.50	A4B-10S-2C
	12	24.0	22.0	H2018-ND	.53	6.37	19.00	A4B-12S-2C
7	Crimp Terminal for A3B-A4B Type			H9999-ND	—	—	7.32	A3B-2630SCC
	Crimp Tool for A3B-A4B Type			H9998-ND	958.40	—	—	A3B-TA2630HC
8	Polarizing Key for Socket Connectors			H2000-ND	2.91/10	—	16.75	A3-GPIN(A)

NEW! A3E Series Crimp Connector

2mm Pitch

Specifications: • Current Rating: 0.5A • Voltage Rating: 125VAC • Operating Temperature: -55°C to +85°C • Operating Moisture Range: 40 to 80% • Insulation Resistance: 1000MΩ min. at 250VDC • Withstanding Voltage: 300VAC/1 minute (no flashover or insulation breakdown) • Contact Resistance: 40mΩ max. @ 0.1A

Material: • Insulator Pin Header: black polyamid, UL94V-0 • Insulator Socket: black PBT, UL94V-0 • Pin Header Contact: Brass with selective gold plating • Socket Contact: beryllium copper

Fig. 1

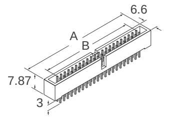


Fig. 2

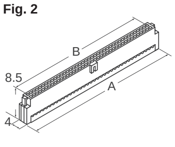


Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Pin Header - Gold Plating								
1	44	52.0	42.0	H1825-ND	3.60	69.75	223.20	A3E-44PA-2DSA
	50	58.0	48.0	H1826-ND	4.58	88.88	284.40	A3E-50PA-2DSA
Socket								
2	44	49.0	42.0	H1891-ND	6.97	140.70	442.20	A3E-44D-2R
	50	55.0	48.0	H1892-ND	6.81	137.55	432.30	A3E-50D-2R
—	Universal Guide Plate			H9947-ND	1296.74	—	—	A3E-GPA

HIROSE ELECTRIC CO.,LTD.

DF11 Series Dual Row Connectors

2mm Pitch (interconnect wire available)

Specifications: • Current Capacity: 3A with AWG24 cable • Rated Voltage: 250VAC • Insulation Resistance: Min. 1000MΩ at 500VDC • Withstand Voltage: 650VAC • Contact Resistance: Max. 30MΩ at 0.1ADC

Fig. 1

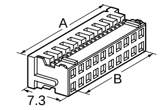


Fig. 2

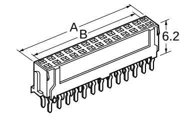


Fig. 3 — Surface Mount

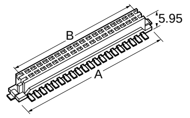


Fig. 4

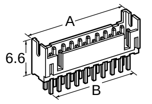


Fig. 5

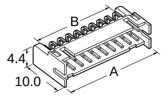


Fig. 6 — Surface Mount

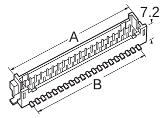


Fig. 7

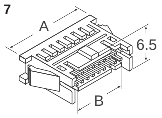


Fig. 8

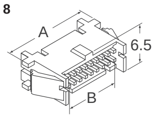


Fig. 9

A. Socket **B. Pin**

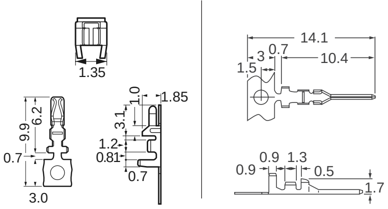


Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Dual Row Crimp Socket — Tin								
1	4	6.0	2.0	H2019-ND	.44	5.28	15.75	DF11-4DS-2C
	6	8.0	4.0	H2021-ND	.50	5.95	17.75	DF11-6DS-2C
	8	10.0	6.0	H2022-ND	.48	5.78	17.25	DF11-8DS-2C
	10	12.0	8.0	H2023-ND	.40	6.00	18.80	DF11-10DS-2C
	12	14.0	10.0	H2024-ND	.54	6.45	19.25	DF11-12DS-2C
	14	16.0	12.0	H2140-ND	.40	6.00	18.80	DF11-14DS-2C
	16	18.0	14.0	H2025-ND	.41	4.86	14.50	DF11-16DS-2C
	18	20.0	16.0	H2026-ND	.44	6.53	20.45	DF11-18DS-2C
	20	22.0	18.0	H2027-ND	.43	5.11	15.25	DF11-20DS-2C
	22	24.0	20.0	H2028-ND	.49	7.28	22.80	DF11-22DS-2C
	24	26.0	22.0	H2029-ND	.50	7.50	23.50	DF11-24DS-2C
	26	28.0	24.0	H2261-ND	.52	7.80	24.44	DF11-26DS-2C
	28	30.0	26.0	H2262-ND	.54	8.10	25.38	DF11-28DS-2C
	30	32.0	28.0	H2263-ND	.56	8.40	26.32	DF11-30DS-2C
	32	34.0	30.0	H2264-ND	.58	8.63	27.03	DF11-32DS-2C
Vertical PCB Socket — Tin								
2	6	8.0	4.0	H2274-ND	1.00	18.09	59.20	DF11-6DS-2DSA
	8	10.0	6.0	H2030-ND	1.07	19.39	63.45	DF11-8DS-2DSA
	10	12.0	8.0	H2031-ND	1.17	21.11	69.08	DF11-10DS-2DSA
	12	14.0	10.0	H2141-ND	1.27	22.89	74.93	DF11-12DS-2DSA
	14	16.0	12.0	H2033-ND	1.36	24.68	80.78	DF11-14DS-2DSA
	16	18.0	14.0	H2034-ND	1.49	27.02	88.43	DF11-16DS-2DSA
	18	20.0	16.0	H2035-ND	1.59	28.81	94.28	DF11-18DS-2DSA
	20	22.0	18.0	H2036-ND	1.73	31.35	102.60	DF11-20DS-2DSA
	22	24.0	20.0	H2037-ND	1.83	33.14	108.45	DF11-22DS-2DSA
	24	26.0	22.0	H2038-ND	1.65	31.75	101.60	DF11-24DS-2DSA
	26	28.0	24.0	H2265-ND	1.74	33.38	106.80	DF11-26DS-2DSA
	28	30.0	26.0	H2266-ND	1.43	27.50	88.00	DF11-28DS-2DSA
	30	32.0	28.0	H2267-ND	1.89	36.44	116.60	DF11-30DS-2DSA
	32	34.0	30.0	H2268-ND	1.99	38.19	122.20	DF11-32DS-2DSA
Vertical PCB Socket — Gold								
2	6	8.0	4.0	H2820-ND	1.59	28.81	94.28	DF11-6DS-2DSA(01)
	8	10.0	6.0	H2821-ND	1.87	33.76	110.50	DF11-8DS-2DSA(01)
	10	12.0	8.0	H2822-ND	1.85	35.56	113.78	DF11-10DS-2DSA(01)
	12	14.0	10.0	H2823-ND	2.10	40.42	129.34	DF11-12DS-2DSA(01)
	14	16.0	12.0	H2824-ND	2.35	45.27	144.86	DF11-14DS-2DSA(01)
	16	18.0	14.0	H2825-ND	2.64	50.69	162.22	DF11-16DS-2DSA(01)
	18	20.0	16.0	H2826-ND	2.89	55.55	177.76	DF11-18DS-2DSA(01)
	20	22.0	18.0	H2827-ND	3.18	61.15	195.68	DF11-20DS-2DSA(01)
	22	24.0	20.0	H2828-ND	3.06	59.40	190.08	DF11-22DS-2DSA(01)
	24	26.0	22.0	H2829-ND	3.29	63.80	204.16	DF11-24DS-2DSA(01)
	26	28.0	24.0	H2830-ND	3.52	68.20	218.25	DF11-26DS-2DSA(01)
	28	30.0	26.0	H2831-ND	3.74	72.57	232.22	DF11-28DS-2DSA(01)
	30	32.0	28.0	H2832-ND	3.97	76.97	246.31	DF11-30DS-2DSA(01)
	32	34.0	30.0	H2833-ND	4.19	81.34	260.28	DF11-32DS-2DSA(01)
Surface Mount Vertical Socket — Tin								
3	4	8.5	2.0	H2039-ND	.96	17.39	56.93	DF11-4DS-2V(20)
	6	10.5	4.0	H2040-ND	1.08	19.46	63.68	DF11-6DS-2V(20)
	8	12.5	6.0	H2041-ND	1.20	21.66	70.88	DF11-8DS-2V(20)
	10	14.5	8.0	H2042-ND	1.31	23.65	77.40	DF11-10DS-2V(20)
	12	16.5	10.0	H2043-ND	1.44	25.99	85.05	DF11-12DS-2V(20)
	14	18.5	12.0	H2142-ND	1.55	27.98	91.58	DF11-14DS-2V(20)
	16	20.5	14.0	H2045-ND	1.68	30.39	99.45	DF11-16DS-2V(20)
	18	22.5	16.0	H2046-ND	1.79	32.45	106.20	DF11-18DS-2V(20)
	20	24.5	18.0	H2047-ND	1.63	31.38	100.40	DF11-20DS-2V(20)
	22	26.5	20.0	H2048-ND	1.73	33.19	106.20	DF11-22DS-2V(20)
	24	28.5	22.0	H2049-ND	1.82	35.06	112.20	DF11-24DS-2V(20)
	26	30.5	24.0	H2270-ND	1.94	37.38	119.60	DF11-26DS-2V(20)
	28	32.5	26.0	H2271-ND	2.04	39.25	125.60	DF11-28DS-2V(20)
	30	34.5	28.0	H2272-ND	2.14	41.13	131.60	DF11-30DS-2V(20)
	32	36.5	30.0	H2273-ND	2.23	42.94	137.40	DF11-32DS-2V(20)
	40	44.5	38.0	H2289-ND	3.05	59.06	189.00	DF11-40DS-2V(20)
Surface Mount Vertical Socket — Gold								
3	4	8.5	2.0	H2834-ND	1.37	24.75	81.00	DF11-4DS-2V(50)
	6	10.5	4.0	H2835-ND	1.60	28.88	94.50	DF11-6DS-2V(50)
	8	12.5	6.0	H2836-ND	1.86	33.69	110.25	DF11-8DS-2V(50)
	10	14.5	8.0	H2837-ND	1.82	35.00	112.00	DF11-10DS-2V(50)
	12	16.5	10.0	H2838-ND	2.05	39.38	126.00	DF11-12DS-2V(50)
	14	18.5	12.0	H2839-ND	2.24	43.13	138.00	DF11-14DS-2V(50)
	16	20.5	14.0	H2840-ND	2.47	47.50	152.00	DF11-16DS-2V(50)
	18	22.5	16.0	H2841-ND	2.73	52.50	168.00	DF11-18DS-2V(50)
	20	24.5	18.0	H2842-ND	2.93	56.25	180.00	DF11-20DS-2V(50)
	22	26.5	20.0	H2843-ND	3.22	61.88	198.00	DF11-22DS-2V(50)
	24	28.5	22.0	H2844-ND	3.07	59.63	190.80	DF11-24DS-2V(50)
	26	30.5	24.0	H2845-ND	3.36	65.25	208.80	DF11-26DS-2V(50)
	28	32.5	26.0	H2846-ND	3.54	68.63	219.60	DF11-28DS-2V(50)
	30	34.5	28.0	H2847-ND	3.80	73.69	235.80	DF11-30DS-2V(50)
	32	36.5	30.0	H2848-ND	3.97	77.06	246.60	DF11-32DS-2V(50)
	40	44.5	38.0	H2849-ND	4.96	96.19	307.80	DF11-40DS-2V(50)
Vertical Protected Header — Tin								
4	4	6.0	2.0	H2143-ND	.54	8.03	25.15	DF11-4DP-2DSA(20)
	6	8.0	4.0	H2051-ND	.60	9.00	28.20	DF11-6DP-2DSA(20)
	8	10.0	6.0	H2052-ND	.64	9.60	30.08	DF11-8DP-2DSA(20)
	10	12.0	8.0	H2053-ND	.73	10.88	34.08	DF11-10DP-2DSA(20)
	12	14.0	10.0	H2054-ND	.62	11.14	36.45	DF11-12DP-2DSA(20)
	14	16.0	12.0	H2055-ND	.68	12.24	40.05	DF11-14DP-2DSA(20)
	16	18.0	14.0	H2056-ND	.59	10.66	34.88	DF11-16DP-2DSA(20)
	18	20.0	16.0	H2057-ND	.80	14.51	47.48	DF11-18DP-2DSA(20)
	20	22.0	18.0	H2058-ND	.75	13.54	44.33	DF11-20DP-2DSA(20)
	22	24.0	20.0	H2059-ND	.97	17.53	57.38	DF11-22DP-2DSA(20)
	24	26.0	22.0	H2060-ND	1.02	18.49	60.53	DF11-24DP-2DSA(20)
	26	28.0	24.0	H2275-ND	1.08	19.46	63.68	DF11-26DP-2DSA(20)
	28	30.0	26.0	H2276-ND	1.13	20.49	67.05	DF11-28DP-2DSA(20)
	30	32.0	28.0	H2277-ND	.95	17.19	56.25	DF11-30DP-2DSA(20)
	32	34.0	30.0	H2278-ND	1.25	22.62	74.03	DF11-32DP-2DSA(20)
Vertical Protected Header — Gold								
4	4	6.0	2.0	H2850-ND	.70	12.71	41.58	DF11-4DP-2DSA(01)
	6	8.0	4.0	H2851-ND	.88	16.01	52.38	DF11-6DP-2DSA(01)
	8	10.0	6.0	H2852-ND	1.07	19.32	63.23	DF11-8DP-2DSA(01)
	10	12.0	8.0	H2853-ND	1.26	22.86	74.81	DF11-10DP-2DSA(01)
	12	14.0	10.0	H2854-ND	1.46	26.48	86.67	DF11-12DP-2DSA(01)
	14	16.0	12.0	H2855-ND	1.65	29.86	97.72	DF11-14DP-2DSA(01)
	16	18.0	14.0	H2856-ND	1.86	33.63	110.05	DF11-16DP-2DSA(01)
	18	20.0	16.0	H2857-ND	1.75	33.64	107.66	DF11-18DP-2DSA(01)
	20	22.0	18.0	H2858-ND	1.93	37.13	118.80	DF11-20DP-2DSA(01)
	22	24.0	20.0	H2859-ND	2.13	40.94	131.00	DF11-22DP-2DSA(01)
	24	26.0	22.0	H2860-ND	2.29	43.99	140.78	DF11-24DP-2DSA(01)
	26	28.0	24.0	H2861-ND	2.45	47.06	150.60	DF11-26DP-2DSA(01)
	28	30.0	26.0	H2862-ND	2.61	50.10	160.32	DF11-28DP-2DSA(01)
	30	32.0	28.0	H2863-ND	2.77	53.25	170.40	DF11-30DP-2DSA(01)
	32	34.0	30.0	H2864-ND	2.93	56.31	180.20	DF11-32DP-2DSA(01)
Right Angle Protected Header — Tin								
5	4	6.0	2.0	H2061-ND	.58	8.70	27.26	DF11-4DP-2DS(22)
	6	8.0	4.0	H2062-ND	.66	9.90	31.02	DF11-6DP-2DS(22)
	8	10.0	6.0	H2063-ND	.71	10.58	33.14	DF11-8DP-2DS(22)
	10	12.0	8.0	H2145-ND	.60	10.93	35.78	DF11-10DP-2DS(22)
	12	14.0	10.0	H2065-ND	.68	12.38	40.50	DF11-12DP-2DS(22)
	14	16.0	12.0	H2066-ND	.75	13.54	44.33	DF11-14DP-2DS(22)
	16	18.0	14.0	H2067-ND	.68	12.31	40.28	DF11-16DP-2DS(22)
	18	20.0	16.0	H2068-ND	.90	16.23	53.10	DF11-18DP-2DS(22)
	20	22.0	18.0	H2069-ND	.98	17.67	57.83	DF11-20DP-2DS(22)
	22	24.0	20.0	H2070-ND	1.09	19.80	64.80	DF11-22DP-2DS(22)
	24	26.0	22.0	H2071-ND	1.16	20.90	68.40	DF11-24DP-2DS(22)
	26	28.0	24.0	H2280-ND	1.22	22.07	72.23	DF11-26DP-2DS(22)
	28	30.0	26.0	H2281-ND	1.28	23.17	75.83	DF11-28DP-2DS(22)
	30	32.0	28.0	H2282-ND	1.35	24.41	79.88	DF11-30DP-2DS(22)
	32	34.0	30.0	H2283-ND	1.41	25.51	83.48	DF11-32DP-2DS(22)
Right Angle Protected Header — Gold								
5	4	6.0	2.0	H2865-ND	.87	15.81	51.75	DF11-4DP-2DS(52)
	6	8.0	4.0	H2866-ND	1.10	19.94	65.25	DF11-6DP-2DS(52)
	8	10.0	6.0	H2867-ND	1.37	24.75	81.00	DF11-8DP-2DS(52)
	10	12.0	8.0	H2868-ND	1.60	28.88	94.50	DF11-10DP-2DS(52)
	12	14.0	10.0	H2869-ND	1.86	33.69	110.25	DF11-12DP-2DS(52)
	14	16.0	12.0	H2870-ND	1.79	34.38	110.00	DF11-14DP-2DS(52)
	16	18.0	14.0	H2871-ND	2.02	38.75	124.00	DF11-16DP-2DS(52)
	18	20.0	16.0	H2872-ND	2.21	42.50	136.00	DF11-18DP-2DS(52)
	20	22.0	18.0	H2873-ND	2.44	46.88	150.00	DF11-20DP-2DS(52)
	22	24.0	20.0	H2874-ND	2.67	51.25	164.00	DF11-22DP-2DS(52)
	24	26.0	22.0	H2875-ND	2.86	55.00	176.00	DF11-24DP-2DS(52)
	26	28.0	24.0	H2876-ND	3.12	60.00	192.00	DF11-26DP-2DS(52)
	28	30.0	26.0	H2877-ND	2.96	57.38	183.60	DF11-28DP-2DS(52)
	30	32.0	28.0	H2878-ND	3.13	60.75	194.40	DF11-30DP-2DS(52)
	32	34.0	30.0	H2879-ND	3.28	63.56	203.40	DF11-32DP-2DS(52)

(Continued)

DF11 Series Dual Row Connectors *(Cont.)*

2mm Pitch (interconnect wire available)

Fig.	No. of Pins	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Surface Mount Protected Header — Tin								
6	4	8.5	2.0	H2072-ND	1.08	19.46	63.68	DF11-4DP-2V(20)
	6	10.5	4.0	H2073-ND	1.20	21.79	71.33	DF11-6DP-2V(20)
	8	12.5	6.0	H2074-ND	1.28	23.10	75.60	DF11-8DP-2V(20)
	10	14.5	8.0	H2075-ND	1.37	24.75	81.00	DF11-10DP-2V(20)
	12	16.5	10.0	H2076-ND	1.44	26.13	85.50	DF11-12DP-2V(20)
	14	18.5	12.0	H2077-ND	1.54	27.78	90.90	DF11-14DP-2V(20)
	16	20.5	14.0	H2078-ND	1.62	29.29	95.85	DF11-16DP-2V(20)
	18	22.5	16.0	H2079-ND	1.71	31.01	101.48	DF11-18DP-2V(20)
	20	24.5	18.0	H2080-ND	1.77	32.04	104.85	DF11-20DP-2V(20)
	22	26.5	20.0	H2081-ND	1.86	33.69	110.25	DF11-22DP-2V(20)
	24	28.5	22.0	H2082-ND	1.67	32.13	102.80	DF11-24DP-2V(20)
	26	30.5	24.0	H2285-ND	1.75	33.69	107.80	DF11-26DP-2V(20)
	28	32.5	26.0	H2286-ND	2.04	39.25	125.60	DF11-28DP-2V(20)
	30	34.5	28.0	H2287-ND	1.88	36.19	115.80	DF11-30DP-2V(20)
	32	36.5	30.0	H2288-ND	1.93	37.19	119.00	DF11-32DP-2V(20)
Surface Mount Protected Header — Tin								
6	4	8.5	2.0	H2881-ND	.99	17.88	58.50	DF11G-4DP-2V(20)
	6	10.5	4.0	H2882-ND	1.10	19.94	65.25	DF11G-6DP-2V(20)
	8	12.5	6.0	H2883-ND	1.18	21.31	69.75	DF11G-8DP-2V(20)
	10	14.5	8.0	H2884-ND	1.25	22.69	74.25	DF11G-10DP-2V(20)
	12	16.5	10.0	H2885-ND	1.37	24.75	81.00	DF11G-12DP-2V(20)
	14	18.5	12.0	H2886-ND	1.44	26.13	85.50	DF11G-14DP-2V(20)
	16	20.5	14.0	H2887-ND	1.60	28.88	94.50	DF11G-16DP-2V(20)
	18	22.5	16.0	H2888-ND	1.67	30.25	99.00	DF11G-18DP-2V(20)
	20	24.5	18.0	H2889-ND	1.71	30.94	101.25	DF11G-20DP-2V(20)
	22	26.5	20.0	H2890-ND	1.63	31.25	100.00	DF11G-22DP-2V(20)
	24	28.5	22.0	H2891-ND	1.72	33.13	106.00	DF11G-24DP-2V(20)
	26	30.5	24.0	H2892-ND	1.82	35.00	112.00	DF11G-26DP-2V(20)
	28	32.5	26.0	H2893-ND	1.98	38.13	122.00	DF11G-28DP-2V(20)
	30	34.5	28.0	H2894-ND	2.05	39.38	126.00	DF11G-30DP-2V(20)
	32	36.5	30.0	H2895-ND	2.11	40.63	130.00	DF11G-32DP-2V(20)
	40	44.5	38.0	H2896-ND	2.57	49.38	158.00	DF11G-40DP-2V(20)
Surface Mount Protected Header — Gold								
6	4	8.5	2.0	H2897-ND	1.44	26.13	85.50	DF11G-4DP-2V(50)
	6	10.5	4.0	H2898-ND	1.67	30.25	99.00	DF11G-6DP-2V(50)
	8	12.5	6.0	H2899-ND	1.63	31.25	100.00	DF11G-8DP-2V(50)
	10	14.5	8.0	H2900-ND	1.82	35.00	112.00	DF11G-10DP-2V(50)
	12	16.5	10.0	H2901-ND	2.02	38.75	124.00	DF11G-12DP-2V(50)
	14	18.5	12.0	H2902-ND	2.21	42.50	136.00	DF11G-14DP-2V(50)
	16	20.5	14.0	H2903-ND	2.44	46.88	150.00	DF11G-16DP-2V(50)
	18	22.5	16.0	H2904-ND	2.63	50.63	162.00	DF11G-18DP-2V(50)
	20	24.5	18.0	H2905-ND	2.80	53.75	172.00	DF11G-20DP-2V(50)
	22	26.5	20.0	H2906-ND	3.12	60.00	192.00	DF11G-22DP-2V(50)
	24	28.5	22.0	H2907-ND	2.99	57.94	185.40	DF11G-24DP-2V(50)
	26	30.5	24.0	H2908-ND	3.22	62.44	199.80	DF11G-26DP-2V(50)
	28	32.5	26.0	H2909-ND	3.42	66.38	212.40	DF11G-28DP-2V(50)
	30	34.5	28.0	H2910-ND	3.63	70.31	225.00	DF11G-30DP-2V(50)
	32	36.5	30.0	H2911-ND	3.80	73.69	235.80	DF11G-32DP-2V(50)
	40	44.5	38.0	H2912-ND	4.70	91.13	291.60	DF11G-40DP-2V(50)
Connector Plug Housing								
7	4	11.0	2.0	H2913-ND	.50	7.57	23.71	DF11-4DEP-2C
	6	13.0	4.0	H2914-ND	.53	7.88	24.68	DF11-6DEP-2C
	8	15.0	6.0	H2915-ND	.55	8.19	25.66	DF11-8DEP-2C
	10	17.0	8.0	H2916-ND	.57	8.52	26.70	DF11-10DEP-2C
	12	19.0	10.0	H2917-ND	.59	8.87	27.80	DF11-12DEP-2C
	14	21.0	12.0	H2918-ND	.61	9.22	28.88	DF11-14DEP-2C
	16	23.0	14.0	H2919-ND	.64	9.53	29.85	DF11-16DEP-2C
	18	25.0	16.0	H2920-ND	.66	9.83	30.81	DF11-18DEP-2C
	20	27.0	18.0	H2921-ND	.68	10.13	31.75	DF11-20DEP-2C
	22	29.0	20.0	H2922-ND	.70	10.46	32.78	DF11-22DEP-2C
	24	31.0	22.0	H2923-ND	.73	10.91	34.19	DF11-24DEP-2C
	26	33.0	24.0	H2924-ND	.75	11.20	35.09	DF11-26DEP-2C
	28	35.0	26.0	H2925-ND	.58	10.57	34.61	DF11-28DEP-2C
	30	37.0	28.0	H2926-ND	.60	10.86	35.53	DF11-30DEP-2C
	32	39.0	30.0	H2927-ND	.62	11.13	36.43	DF11-32DEP-2C
In-Line Adaptor								
8	4	9.2	2.0	H2928-ND	.68	12.31	40.30	DF11-4DEP-2A
	6	11.2	4.0	H2929-ND	.76	13.84	45.29	DF11-6DEP-2A
	8	13.2	6.0	H2930-ND	.85	15.46	50.58	DF11-8DEP-2A
	10	15.2	8.0	H2931-ND	.94	17.08	55.89	DF11-10DEP-2A
	12	17.2	10.0	H2932-ND	1.04	18.73	61.31	DF11-12DEP-2A
	14	19.2	12.0	H2933-ND	1.16	21.07	68.94	DF11-14DEP-2A
	16	21.2	14.0	H2934-ND	1.25	22.62	74.03	DF11-16DEP-2A
	18	23.2	16.0	H2935-ND	1.34	24.19	79.18	DF11-18DEP-2A
	20	25.2	18.0	H2936-ND	1.47	26.51	86.76	DF11-20DEP-2A
	22	27.2	20.0	H2937-ND	1.55	28.09	91.94	DF11-22DEP-2A
	24	29.2	22.0	H2938-ND	1.64	29.66	97.07	DF11-24DEP-2A
	26	31.2	24.0	H2939-ND	1.73	31.23	102.22	DF11-26DEP-2A
	28	33.2	26.0	H2940-ND	1.81	32.80	107.35	DF11-28DEP-2A
	30	35.2	28.0	H2941-ND	1.90	34.34	112.39	DF11-30DEP-2A
	32	37.2	30.0	H2942-ND	1.70	32.65	104.48	DF11-32DEP-2A
Connector Shorting Jumpers								
—	4	6.6	2.0	H2943-ND	.66	11.90	38.95	DF11-4DP-SP1
	6	8.6	4.0	H2944-ND	.71	12.91	42.26	DF11-6DP-SP1
	8	10.6	6.0	H2945-ND	.78	14.10	46.15	DF11-8DP-SP1
	4	6.6	2.0	H2946-ND	.71	12.80	41.90	DF11-4DP-SP2
	6	8.6	4.0	H2947-ND	.80	14.40	47.12	DF11-6DP-SP2
	8	10.6	6.0	H2948-ND	.89	16.16	52.90	DF11-8DP-SP2

Crimping Contacts

Fig.	AWG	Digi-Key Part No.	Loose Piece Pricing 100	Digi-Key Part No.	Hirose Part No.	Tape & Reel Pricing 10,000	Hirose Part No.
Socket Contacts							
Tin Plating							
9A	22 24-28 30	H2950-ND H1504-ND H2954-ND	6.91 3.63 6.91	DF11-22SC DF11-2428SC DF11-30SC	H2950TR-ND H1504TR-ND H2954TR-ND	16.00/M 10.00/M 16.00/M	DF11-22SCF DF11-2428SCF DF11-30SCF
Gold Plating							
9A	22 24-28 30	H2953-ND H1505-ND H2951-ND	10.00 10.97 10.34	DF11-22SCA DF11-2428SCA DF11-30SCA	— H1505TR-ND H2951TR-ND	— 40.00/M 40.00/M	— DF11-2428SCFA DF11-30SCFA
Pin Contacts							
Tin Plating							
9B	22 24-28	— H1506-ND	— 9.46	— DF11-EP2428PC	H2952TR-ND H1506TR-ND	17.00/M 16.00/M	DF11-EP22PCF DF11-EP2428PCF
Gold Plating							
9B	24-28	H1507-ND	12.70	DF11-EP2428PCA	—	—	—

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Hand Crimp Tools			
24-28AWG, with Die Set	H9924-ND *NEW!*	571.90	DF11-TA2428HC/US
24-28AWG, without Die Set	H9926-ND *NEW!*	332.50	HRUS-HT-1
Die Set for #H9926-ND	H9928-ND *NEW!*	239.40	DF11-TA2428HC/US-DS
22AWG, for Socket with Non-Removeable Die	H9954-ND	1020.90	DF11-TA22HC
24-28AWG, for Socket with Non-Removeable Die	H9995-ND	1020.90	DF11-TA2428HC
30AWG, for Socket with Non-Removeable Die	H9955-ND	1020.90	DF11-TA30HC
24-28AWG, for Pin with Non-Removeable Die	H2304-ND	958.40	DF11EP-TA2428HC
Extraction Tool			
Tool for DF11 Socket	H9996-ND	2.99	DF-C-PO(B

MDF7 Series Bottom Entry Connector

2.54mm Pitch

Features: • Board-to-board distance can be freely set. Pass-through construction header pins and many header variations allow you set the board-to-board steplessly • Arrangement of components sides. Components sides of two boards can be arranged on the same side, without facing each other.

Applications: Telephones, internal connections of OA/FA equipment, connection of IPM and IGBT to boards.

Specifications: • Rated Current: 3A • Rated Voltage: AC250V • Operating Temperature: -35°C to 85°C • Insulation Resistance: 1,000MΩ or more • Contact Resistance: 30 mΩ or less • Insertion and withdrawals force: MIN 0.4N (40gf), MAX 4.4N (450gf)

Materials: • Receptacle: Insulation; Polyimide resin, black, UL94V-0 and Terminal; Phosphor bronze, gold-plated • Pin Header: Insulation; PBT resin, Main body - Black / Locator: Grey, UL94V-0 and Terminal; Brass with gold-plated

Fig. 1

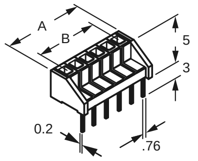


Fig. 2

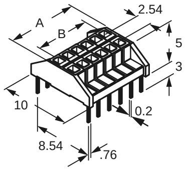


Fig.	No. of Contacts	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Receptacle - Straight Dip								
Single Row								
1	3	7.62	5.08	H2549-ND	.95	.69	.57	MDF7- 3S-2.54DSA
	5	12.70	10.16	H2550-ND	1.11	.81	.66	MDF7- 5S-2.54DSA
	6	15.24	12.70	H2551-ND	1.17	.85	.70	MDF7- 6S-2.54DSA
	7	17.78	15.24	H2552-ND	1.24	.90	.74	MDF7- 7S-2.54DSA
	8	20.32	17.78	H2553-ND	1.31	.95	.78	MDF7- 8S-2.54DSA
	9	22.86	20.32	H2554-ND	1.38	1.00	.82	MDF7- 9S-2.54DSA
	10	25.40	22.86	H2555-ND	1.55	1.13	.92	MDF7-10S-2.54DSA
	11	27.94	25.40	H2556-ND	1.62	1.17	.96	MDF7-11S-2.54DSA
	12	30.48	27.94	H2557-ND	1.68	1.22	1.00	MDF7-12S-2.54DSA
	13	33.02	30.48	H2558-ND	1.70	1.23	1.01	MDF7-13S-2.54DSA
	14	35.56	33.02	H2559-ND	1.72	1.25	1.02	MDF7-14S-2.54DSA
	15	38.10	35.56	H2560-ND	1.77	1.29	1.05	MDF7-15S-2.54DSA
	16	40.64	38.10	H2561-ND	1.86	1.35	1.10	MDF7-16S-2.54DSA
	17	43.18	40.64	H2562-ND	1.65	1.27	1.02	MDF7-17S-2.54DSA
	18	45.72	43.18	H2563-ND	1.77	1.36	1.09	MDF7-18S-2.54DSA
	19	48.26	45.72	H2564-ND	1.79	1.38	1.11	MDF7-19S-2.54DSA
	20	50.80	48.26	H2565-ND	1.82	1.40	1.12	MDF7-20S-2.54DSA
	21	53.34	50.80	H2566-ND	1.93	1.49	1.19	MDF7-21S-2.54DSA
	22	55.88	53.34	H2567-ND	1.98	1.53	1.23	MDF7-22S-2.54DSA
	23	58.42	55.88	H2568-ND	2.04	1.58	1.26	MDF7-23S-2.54DSA
	24	60.96	58.42	H2569-ND	2.10	1.62	1.30	MDF7-24S-2.54DSA
	25	63.50	60.96	H2570-ND	2.27	1.75	1.40	MDF7-25S-2.54DSA
Double Row								
2	12	15.24	12.70	H2571-ND	2.80	2.16	1.73	MDF7-12D-2.54DSA
	14	17.78	15.24	H2572-ND	3.17	2.45	1.96	MDF7-14D-2.54DSA
	16	20.32	17.78	H2573-ND	2.88	2.31	1.79	MDF7-16D-2.54DSA
	20	25.40	22.86	H2574-ND	3.30	2.65	2.05	MDF7-20D-2.54DSA
	22	27.94	25.40	H2575-ND	3.39	2.72	2.10	MDF7-22D-2.54DSA
	26	33.02	30.48	H2577-ND	3.88	3.11	2.40	MDF7-26D-2.54DSA
	30	38.10	35.56	H2578-ND	4.42	3.54	2.74	MDF7-30D-2.54DSA
	34	43.18	40.64	H2579-ND	5.06	4.05	3.13	MDF7-34D-2.54DSA
	40	50.80	48.26	H2580-ND	5.83	4.67	3.61	MDF7-40D-2.54DSA
	46	58.42	55.88	H2581-ND	6.65	5.32	4.11	MDF7-46D-2.54DSA

HIROSE ELECTRIC CO.,LTD.

NEW! DF1B Series Connectors for Discrete Wire Connection

2.5mm Pitch

Features: • By using the ID contact and crimping contact together, different current capacity cables can be mixed in one case • After connection, the contact can be replaced in excellent maintainability • Because the insulation displacement area is protected by the case, high reliability can be assured
Applications: Business equipment, particularly including the copy machine and printer
Specifications: • UL: E52653 and CSA: LR95109 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temp. Range: -35°C to 85°C • Operating Moisture Range: 40% to 80% • Insulation Resistance: 500VDC, 1000MΩ min. • Withstanding Voltage: 1 min. at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 30mΩ max.
Material: • Insulator: Polyamide, white, UL94V-0 • Contacts: Socket/Plug: Phosphor copper with gold or tin plating Header: Brass with gold or tin plating

Fig. 1

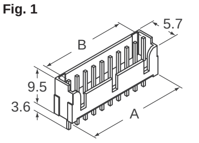


Fig. 2

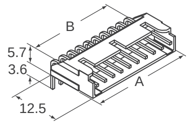


Fig. 3

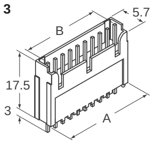


Fig. 4

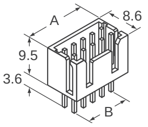


Fig. 5

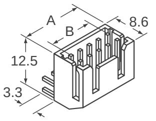


Fig. 6

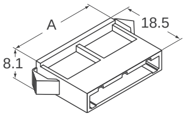


Fig. 7

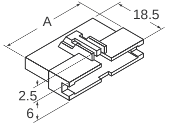


Fig. 8

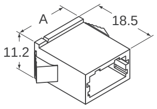


Fig. 9

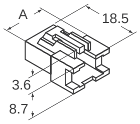


Fig. 10

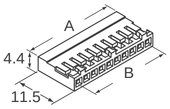


Fig. 11

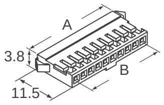


Fig. 12

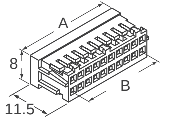


Fig. 13

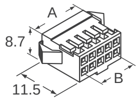


Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
VERTICAL PIN HEADERS								
Single Row								
TIn Plating								
1	2	7.5	2.5	H3500-ND	.28	3.35	10.00	DF1B-2P-2.5DSA
	3	10	5	H3501-ND	.35	4.19	12.50	DF1B-3P-2.5DSA
	4	12.5	7.5	H3502-ND	.42	5.03	15.00	DF1B-4P-2.5DSA
	5	15	10	H3503-ND	.49	5.86	17.50	DF1B-5P-2.5DSA
	6	17.5	12.5	H3504-ND	.40	6.00	18.80	DF1B-6P-2.5DSA
	7	20	15	H3505-ND	.45	6.75	21.15	DF1B-7P-2.5DSA
	8	22.5	17.5	H3506-ND	.45	6.75	21.15	DF1B-8P-2.5DSA
	9	25	20	H3507-ND	.55	8.25	25.85	DF1B-9P-2.5DSA
	10	27.5	22.5	H3508-ND	.60	9.00	28.20	DF1B-10P-2.5DSA
	11	30	25	H3509-ND	.65	9.75	30.55	DF1B-11P-2.5DSA
	12	32.5	27.5	H3510-ND	.65	9.75	30.55	DF1B-12P-2.5DSA
	13	35	30	H3511-ND	.70	10.50	32.90	DF1B-13P-2.5DSA
	14	37.5	32.5	H3512-ND	.57	10.31	33.75	DF1B-14P-2.5DSA
	15	40	35	H3513-ND	.68	12.38	40.50	DF1B-15P-2.5DSA
	16	42.5	37.5	H3514-ND	.72	13.06	42.75	DF1B-16P-2.5DSA
	18	47.5	42.5	H3515-ND	.76	13.75	45.00	DF1B-18P-2.5DSA
	20	52.2	47.5	H3516-ND	.80	14.44	47.25	DF1B-20P-2.5DSA
Gold Plating								
1	2	7.5	2.5	H3615-ND	.49	5.86	17.50	DF1B-2P-2.5DSA(01)
	3	10	5	H3616-ND	.45	6.75	21.15	DF1B-3P-2.5DSA(01)
	4	12.5	7.5	H3617-ND	.55	8.25	25.85	DF1B-4P-2.5DSA(01)
	5	15	10	H3618-ND	.65	9.75	30.55	DF1B-5P-2.5DSA(01)
	6	17.5	12.5	H3619-ND	.61	11.00	36.00	DF1B-6P-2.5DSA(01)
	7	20	15	H3620-ND	.68	12.38	40.50	DF1B-7P-2.5DSA(01)
	8	22.5	17.5	H3621-ND	.76	13.75	45.00	DF1B-8P-2.5DSA(01)
	9	25	20	H3622-ND	.87	15.81	51.75	DF1B-9P-2.5DSA(01)
	10	27.5	22.5	H3623-ND	.95	17.19	56.25	DF1B-10P-2.5DSA(01)
	11	30	25	H3624-ND	1.03	18.56	60.75	DF1B-11P-2.5DSA(01)
	12	32.5	27.5	H3625-ND	1.10	19.94	65.25	DF1B-12P-2.5DSA(01)
	13	35	30	H3626-ND	1.18	21.31	69.75	DF1B-13P-2.5DSA(01)
	14	37.5	32.5	H3627-ND	1.25	22.69	74.25	DF1B-14P-2.5DSA(01)
	15	40	35	H3628-ND	1.44	26.13	85.50	DF1B-15P-2.5DSA(01)
	16	42.5	37.5	H3629-ND	1.52	27.50	90.00	DF1B-16P-2.5DSA(01)
	18	47.5	42.5	H3630-ND	1.67	30.25	99.00	DF1B-18P-2.5DSA(01)
	20	52.2	47.5	H3631-ND	1.82	33.00	108.00	DF1B-20P-2.5DSA(01)
Single Row Right Angle								
Tin Plating								
2	2	7.5	2.5	H3517-ND	.35	4.19	12.50	DF1B-2P-2.5DS
	3	10	5	H3518-ND	.49	5.86	17.50	DF1B-3P-2.5DS
	4	12.5	7.5	H3519-ND	.49	5.86	17.50	DF1B-4P-2.5DS
	5	15	10	H3520-ND	.45	6.75	21.15	DF1B-5P-2.5DS
	6	17.5	12.5	H3521-ND	.50	7.50	23.50	DF1B-6P-2.5DS
	7	20	15	H3522-ND	.55	8.25	25.85	DF1B-7P-2.5DS
	8	22.5	17.5	H3523-ND	.55	8.25	25.85	DF1B-8P-2.5DS
	9	25	20	H3524-ND	.65	9.75	30.55	DF1B-9P-2.5DS
	10	27.5	22.5	H3525-ND	.70	10.50	32.90	DF1B-10P-2.5DS
	11	30	25	H3526-ND	.57	10.31	33.75	DF1B-11P-2.5DS
	12	32.5	27.5	H3527-ND	.61	11.00	36.00	DF1B-12P-2.5DS
	13	35	30	H3528-ND	.61	11.00	36.00	DF1B-13P-2.5DS
	14	37.5	32.5	H3529-ND	.65	11.69	38.25	DF1B-14P-2.5DS
	15	40	35	H3530-ND	.80	14.44	47.25	DF1B-15P-2.5DS
	16	42.5	37.5	H3531-ND	.84	15.13	49.50	DF1B-16P-2.5DS
	18	47.5	42.5	H3532-ND	.87	15.81	51.75	DF1B-18P-2.5DS
	20	52.2	47.5	H3533-ND	.95	17.19	56.25	DF1B-20P-2.5DS
Gold Plating								
2	2	7.5	2.5	H3632-ND	.45	6.75	21.15	DF1B-2P-2.5DS(01)
	3	10	5	H3633-ND	.55	8.25	25.85	DF1B-3P-2.5DS(01)
	4	12.5	7.5	H3634-ND	.65	9.75	30.55	DF1B-4P-2.5DS(01)
	5	15	10	H3635-ND	.61	11.00	36.00	DF1B-5P-2.5DS(01)
	6	17.5	12.5	H3636-ND	.72	13.06	42.75	DF1B-6P-2.5DS(01)
	7	20	15	H3637-ND	.80	14.44	47.25	DF1B-7P-2.5DS(01)
	8	22.5	17.5	H3638-ND	.91	16.50	54.00	DF1B-8P-2.5DS(01)
	9	25	20	H3639-ND	1.03	18.56	60.75	DF1B-9P-2.5DS(01)
	10	27.5	22.5	H3640-ND	1.14	20.63	67.50	DF1B-10P-2.5DS(01)
	11	30	25	H3641-ND	1.22	22.00	72.00	DF1B-11P-2.5DS(01)
	12	32.5	27.5	H3642-ND	1.29	23.38	76.50	DF1B-12P-2.5DS(01)
	13	35	30	H3643-ND	1.33	24.06	78.75	DF1B-13P-2.5DS(01)
	14	37.5	32.5	H3644-ND	1.48	26.81	87.75	DF1B-14P-2.5DS(01)
	15	40	35	H3645-ND	1.71	30.94	101.25	DF1B-15P-2.5DS(01)
	16	42.5	37.5	H3646-ND	1.63	29.56	96.75	DF1B-16P-2.5DS(01)
	18	47.5	42.5	H3647-ND	1.66	31.88	102.00	DF1B-18P-2.5DS(01)
	20	52.2	47.5	H3648-ND	1.82	35.00	112.00	DF1B-20P-2.5DS(01)
Single Row for Potting								
TIn Plating								
3	2	7.5	2.5	H3534-ND	.87	15.81	51.75	DF1BD-2P-2.5DSA
	3	10	5	H3535-ND	.76	13.75	45.00	DF1BD-3P-2.5DSA
	4	12.5	7.5	H3536-ND	.99	17.88	58.50	DF1BD-4P-2.5DSA
	5	15	10	H3537-ND	1.03	18.56	60.75	DF1BD-5P-2.5DSA
	6	17.5	12.5	H3538-ND	.91	16.50	54.00	DF1BD-6P-2.5DSA
	7	20	15	H3539-ND	1.18	21.31	69.75	DF1BD-7P-2.5DSA
	8	22.5	17.5	H3540-ND	1.03	18.56	60.75	DF1BD-8P-2.5DSA
	9	25	20	H3541-ND	1.33	24.06	78.75	DF1BD-9P-2.5DSA
	10	27.5	22.5	H3542-ND	1.14	20.63	67.50	DF1BD-10P-2.5DSA
Double Row								
Tin Plating								
4	4	7.5	2.5	H3560-ND	.40	6.00	18.80	DF1B-4DP-2.5DSA
	6	10	5	H3561-ND	.50	7.50	23.50	DF1B-6DP-2.5DSA
	8	12.5	7.5	H3562-ND	.55	8.25	25.85	DF1B-8DP-2.5DSA
	10	15	10	H3563-ND	.70	10.50	32.90	DF1B-10DP-2.5DSA
	12	17.5	12.5	H3564-ND	.61	11.00	36.00	DF1B-12DP-2.5DSA
	14	20	15	H3565-ND	.65	11.69	38.25	DF1B-14DP-2.5DSA
	16	22.5	17.5	H3566-ND	.72	13.06	42.75	DF1B-16DP-2.5DSA
	18	25	20	H3567-ND	.80	14.44	47.25	DF1B-18DP-2.5DSA
	20	27.5	22.5	H3568-ND	.91	16.50	54.00	DF1B-20DP-2.5DSA
	22	30	25	H3569-ND	1.03	18.56	60.75	DF1B-22DP-2.5DSA
	24	32.5	27.5	H3570-ND	1.10	19.94	65.25	DF1B-24DP-2.5DSA
	26	35	30	H3571-ND	1.14	20.63	67.50	DF1B-26DP-2.5DSA
	28	37.5	32.5	H3572-ND	1.18	21.31	69.75	DF1B-28DP-2.5DSA
	30	40	35	H3573-ND	1.37	24.75	81.00	DF1B-30DP-2.5DSA
	34	45	40	H3574-ND	1.52	27.50	90.00	DF1B-34DP-2.5DSA
	36	47.5	42.5	H3575-ND	1.63	29.56	96.75	DF1B-36DP-2.5DSA
	40	52.5	47.5	H3576-ND	1.71	30.94	101.25	DF1B-40DP-2.5DSA
Gold Plating								
4	4	7.5	2.5	H3666-ND	.55	8.25	25.85	DF1B-4DP-2.5DSA(01)
	6	10	5	H3667-ND	.70	10.50	32.90	DF1B-6DP-2.5DSA(01)
	8	12.5	7.5	H3668-ND	.65	11.69	38.25	DF1B-8DP-2.5DSA(01)
	10	15	10	H3669-ND	.80	14.44	47.25	DF1B-10DP-2.5DSA(01)
	12	17.5	12.5	H3670-ND	.91	16.50	54.00	DF1B-12DP-2.5DSA(01)
	14	20	15	H3671-ND	1.03	18.56	60.75	DF1B-14DP-2.5DSA(01)
	16	22.5	17.5	H3672-ND	1.10	19.94	65.25	DF1B-16DP-2.5DSA(01)
	18	25	20	H3673-ND	1.25	22.69	74.25	DF1B-18DP-2.5DSA(01)
	20	27.5	22.5	H3674-ND	1.37	24.75	81.00	DF1B-20DP-2.5DSA(01)
	22	30	25	H3675-ND	1.60	28.88	94.50	DF1B-22DP-2.5DSA(01)
	24	32.5	27.5	H3676-ND	1.71	30.94	101.25	DF1B-24DP-2.5DSA(01)
	26	35	30	H3677-ND	1.82	33.00	108.00	DF1B-26DP-2.5DSA(01)
	28	37.5	32.5	H3678-ND	1.66	31.88	102.00	DF1B-28DP-2.5DSA(01)
	30	40	35	H3679-ND	1.82	35.00	112.00	DF1B-30DP-2.5DSA(01)
	34	45	40	H3680-ND	2.02	38.75	124.00	DF1B-34DP-2.5DSA(01)
	36	47.5	42.5	H3681-ND	2.18	41.88	134.00	DF1B-36DP-2.5DSA(01)
	40	52.5	47.5	H3682-ND	2.31	44.38	142.00	DF1B-40DP-2.5DSA(01)
Double Row Right Angle								
TIn Plating								
5	4	7.5	2.5	H3543-ND	.45	6.75	21.15	DF1B-4DP-2.5DS
	6	10	5	H3544-ND	.55	8.25	25.85	DF1B-6DP-2.5DS
	8	12.5	7.5	H3545-ND	.65	9.75	30.55	DF1B-8DP-2.5DS
	10	15	10	H3546-ND	.61	11.00	36.00	DF1B-10DP-2.5DS
	12	17.5	12.5	H3547-ND	.68	12.38	40.50	DF1B-12DP-2.5DS
	14	20	15	H3548-ND	.76	13.75	45.00	DF1B-14DP-2.5DS
	16	22.5	17.5	H3549-ND	.84	15.13	49.50	DF1B-16DP-2.5DS
	18	25	20	H3550-ND	.95	17.19	56.25	DF1B-18DP-2.5DS
	20	27.5	22.5	H3551-ND	1.03	18.56	60.75	DF1B-20DP-2.5DS
	22	30	25	H3552-ND	1.18	21.31	69.75	DF1B-22DP-2.5DS
	24	32.5	27.5	H3553-ND	1.25	22.69	74.25	DF1B-24DP-2.5DS
	26	35	30	H3554-ND	1.33	24.06	78.75	DF1B-26DP-2.5DS
	28	37.5	32.5	H3555-ND	1.48	26.81	87.75	DF1B-28DP-2.5DS
	30	40	35	H3556-ND	1.63	29.56	96.75	DF1B-30DP-2.5DS
	34	45	40	H3557-ND	1.79	32.31	105.75	DF1B-34DP-2.5DS
	36	47.5	42.5	H3558-ND	1.63	31.25	100.00	DF1B-36DP-2.5DS
	40	52.5	47.5	H3559-ND	1.69	32.50	104.00	DF1B-40DP-2.5DS
Gold Plating								
5	4	7.5	2.5	H3649-ND	.70	10.50	32.90	DF1B-4DP-2.5DS(01)
	6	10	5	H3650-ND	.72	13.06	42.75	DF1B-6DP-2.5DS(01)
	8	12.5	7.5	H3651-ND	.87	15.81	51.75	DF1B-8DP-2.5DS(01)
	10	15	10	H3652-ND	1.10	19.94	65.25	DF1B-10DP-2.5DS(01)
	12	17.5	12.5	H3653-ND	1.25	22.69	74.25	DF1B-12DP-2.5DS(01)
	14	20	15	H3654-ND	1.44	26.13	85.50	DF1B-14DP-2.5DS(01)
	16	22.5	17.5	H3655-ND	1.63	29.56	96.75	DF1B-16DP-2.5DS(01)

(Continued)

HRS HIROSE ELECTRIC CO.,LTD. *NEW!* DF1B Series Connectors - 2.5mm Pitch for Discrete Wire Connection *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
5	18	25	20	H3656-ND	1.82	33.00	108.00	DF1B-18DP-2.5DS(01)
	20	27.5	22.5	H3657-ND	1.72	33.13	106.00	DF1B-20DP-2.5DS(01)
	22	30	25	H3658-ND	1.92	36.88	118.00	DF1B-22DP-2.5DS(01)
	24	32.5	27.5	H3659-ND	2.08	40.00	128.00	DF1B-24DP-2.5DS(01)
	26	35	30	H3660-ND	2.24	43.13	138.00	DF1B-26DP-2.5DS(01)
	28	37.5	32.5	H3661-ND	2.41	46.25	148.00	DF1B-28DP-2.5DS(01)
	30	40	35	H3662-ND	2.63	50.63	162.00	DF1B-30DP-2.5DS(01)
	34	45	40	H3663-ND	2.93	56.25	180.00	DF1B-34DP-2.5DS(01)
	36	47.5	42.5	H3664-ND	3.22	61.88	198.00	DF1B-36DP-2.5DS(01)
	40	52.5	47.5	H3665-ND	3.02	58.50	187.20	DF1B-40DP-2.5DS(01)
IN-LINE PLUGS (order contacts separately) *Single Row (simple lock type)*								
6	2	7.1	—	H3683-ND	.35	4.19	12.50	DF1BA-2EP-2.5RC
	3	9.6	—	H3684-ND	.35	4.19	12.50	DF1BA-3EP-2.5RC
	4	12.1	—	H3685-ND	.42	5.03	15.00	DF1BA-4EP-2.5RC
	5	14.6	—	H3686-ND	.40	6.00	18.80	DF1BA-5EP-2.5RC
	6	17.1	—	H3687-ND	.40	6.00	18.80	DF1BA-6EP-2.5RC
	7	19.6	—	H3688-ND	.40	6.00	18.80	DF1BA-7EP-2.5RC
	8	22.1	—	H3689-ND	.45	6.75	21.15	DF1BA-8EP-2.5RC
	9	24.6	—	H3690-ND	.60	9.00	28.20	DF1BA-9EP-2.5RC
	10	27.1	—	H3691-ND	.65	9.75	30.55	DF1BA-10EP-2.5RC
	11	29.6	—	H3692-ND	.70	10.50	32.90	DF1BA-11EP-2.5RC
	12	32.1	—	H3693-ND	.57	10.31	33.75	DF1BA-12EP-2.5RC
	13	34.6	—	H3694-ND	.57	10.31	33.75	DF1BA-13EP-2.5RC
	15	39.6	—	H3695-ND	.72	13.06	42.75	DF1BA-14EP-2.5RC
Single Row (full lock type)								
7	2	8.9	—	H3733-ND	.28	3.35	10.00	DF1B-2EP-2.5RC
	3	11.4	—	H3734-ND	.35	4.19	12.50	DF1B-3EP-2.5RC
	4	13.9	—	H3735-ND	.35	4.19	12.50	DF1B-4EP-2.5RC
	5	16.4	—	H3736-ND	.42	5.03	15.00	DF1B-5EP-2.5RC
	6	18.9	—	H3737-ND	.42	5.03	15.00	DF1B-6EP-2.5RC
	7	21.4	—	H3738-ND	.40	6.00	18.80	DF1B-7EP-2.5RC
	8	23.9	—	H3739-ND	.40	6.00	18.80	DF1B-8EP-2.5RC
	9	26.4	—	H3740-ND	.45	6.75	21.15	DF1B-9EP-2.5RC
	10	28.9	—	H3741-ND	.45	6.75	21.15	DF1B-10EP-2.5RC
	11	31.4	—	H3742-ND	.50	7.50	23.50	DF1B-11EP-2.5RC
	12	33.9	—	H3743-ND	.50	7.50	23.50	DF1B-12EP-2.5RC
	13	36.4	—	H3744-ND	.55	8.25	25.85	DF1B-13EP-2.5RC
Double Row (simple lock type)								
8	4	8.6	—	H3696-ND	.40	6.00	18.80	DF1BA-4DEP-2.5RC
	6	11.1	—	H3697-ND	.45	6.75	21.15	DF1BA-6DEP-2.5RC
	8	13.6	—	H3698-ND	.45	6.75	21.15	DF1BA-8DEP-2.5RC
	10	16.1	—	H3699-ND	.50	7.50	23.50	DF1BA-10DEP-2.5RC
	12	18.6	—	H3700-ND	.50	7.50	23.50	DF1BA-12DEP-2.5RC
	14	21.1	—	H3701-ND	.55	8.25	25.85	DF1BA-14DEP-2.5RC
	16	23.6	—	H3702-ND	.55	8.25	25.85	DF1BA-16DEP-2.5RC
	18	26.1	—	H3703-ND	.55	8.25	25.85	DF1BA-18DEP-2.5RC
	20	28.6	—	H3704-ND	.60	9.00	28.20	DF1BA-20DEP-2.5RC
	22	31.1	—	H3705-ND	.68	12.38	40.50	DF1BA-22DEP-2.5RC
	24	33.6	—	H3706-ND	.68	12.38	40.50	DF1BA-24DEP-2.5RC
	26	36.1	—	H3707-ND	.72	13.06	42.75	DF1BA-26DEP-2.5RC
	28	38.6	—	H3708-ND	.72	13.06	42.75	DF1BA-28DEP-2.5RC
	30	41.1	—	H3709-ND	.72	13.06	42.75	DF1BA-30DEP-2.5RC
	34	46.1	—	H3710-ND	.76	13.75	45.00	DF1BA-34DEP-2.5RC
Double Row (full lock type)								
9	10	17.2	—	H3711-ND	.68	12.38	40.50	DF1B-10DEP-2.5RC
	12	19.7	—	H3712-ND	.72	13.06	42.75	DF1B-12DEP-2.5RC
	14	22.2	—	H3713-ND	.76	13.75	45.00	DF1B-14DEP-2.5RC
	16	24.7	—	H3714-ND	.76	13.75	45.00	DF1B-16DEP-2.5RC
	18	27.2	—	H3715-ND	.84	15.13	49.50	DF1B-18DEP-2.5RC
	20	29.7	—	H3716-ND	.87	15.81	51.75	DF1B-20DEP-2.5RC
	22	32.2	—	H3717-ND	.91	16.50	54.00	DF1B-22DEP-2.5RC
	24	34.7	—	H3718-ND	.91	16.50	54.00	DF1B-24DEP-2.5RC
	26	37.2	—	H3719-ND	.95	17.19	56.25	DF1B-26DEP-2.5RC
	28	39.7	—	H3720-ND	1.03	18.56	60.75	DF1B-28DEP-2.5RC
	30	42.2	—	H3721-ND	1.06	19.25	63.00	DF1B-30DEP-2.5RC
	32	44.7	—	H3722-ND	1.10	19.94	65.25	DF1B-32DEP-2.5RC
	34	47.2	—	H3723-ND	1.10	19.94	65.25	DF1B-34DEP-2.5RC
SOCKETS (order contacts separately) *Single Row*								
10	2	5	2.5	H3781-ND	.24	2.50	6.20	DF1B-2S-2.5R
	3	7.5	5	H3782-ND	.24	2.50	6.20	DF1B-3S-2.5R
	4	10	7.5	H3783-ND	.24	2.50	6.20	DF1B-4S-2.5R
	5	12.5	10	H3784-ND	.27	2.93	8.25	DF1B-5S-2.5R
	6	15	12.5	H3785-ND	.27	2.93	8.25	DF1B-6S-2.5R
	7	17.5	15	H3786-ND	.27	2.93	8.25	DF1B-7S-2.5R
	8	20	17.5	H3787-ND	.28	3.35	10.00	DF1B-8S-2.5R
	9	22.5	20	H3788-ND	.28	3.35	10.00	DF1B-9S-2.5R
	10	25	22.5	H3789-ND	.28	3.35	10.00	DF1B-10S-2.5R
	11	27.5	25	H3790-ND	.35	4.19	12.50	DF1B-11S-2.5R
	12	30	27.5	H3791-ND	.35	4.19	12.50	DF1B-12S-2.5R
	13	32.5	30	H3792-ND	.35	4.19	12.50	DF1B-13S-2.5R
	14	35	32.5	H3793-ND	.35	4.19	12.50	DF1B-14S-2.5R
	15	37.5	35	H3794-ND	.42	5.03	15.00	DF1B-15S-2.5R
	16	40	37.5	H3795-ND	.49	5.86	17.50	DF1B-16S-2.5R
	18	45	42.5	H3796-ND	.49	5.86	17.50	DF1B-18S-2.5R
	20	50	47.5	H3797-ND	.49	5.86	17.50	DF1B-20S-2.5R
Single Row In-Line (full lock type)								
11	2	6.5	2.5	H3798-ND	.28	3.35	10.00	DF1B-2ES-2.5RC
	3	9	5	H3799-ND	.35	4.19	12.50	DF1B-3ES-2.5RC
	4	11.5	7.5	H3800-ND	.35	4.19	12.50	DF1B-4ES-2.5RC
	5	14	10	H3801-ND	.42	5.03	15.00	DF1B-5ES-2.5RC
	6	16.5	12.5	H3802-ND	.42	5.03	15.00	DF1B-6ES-2.5RC
	7	19	15	H3803-ND	.40	6.00	18.80	DF1B-7ES-2.5RC
	8	21.5	17.5	H3804-ND	.45	6.75	21.15	DF1B-8ES-2.5RC
	9	24	20	H3805-ND	.45	6.75	21.15	DF1B-9ES-2.5RC
	10	26.5	22.5	H3806-ND	.50	7.50	23.50	DF1B-10ES-2.5RC
	11	29	25	H3807-ND	.50	7.50	23.50	DF1B-11ES-2.5RC
	12	31.5	27.5	H3808-ND	.55	8.25	25.85	DF1B-12ES-2.5RC
	13	34	30	H3809-ND	.55	8.25	25.85	DF1B-13ES-2.5RC
Double Row								
12	4	7.5	2.5	H3810-ND	.35	4.19	12.50	DF1B-4DS-2.5RC
	6	10	5	H3811-ND	.35	4.19	12.50	DF1B-6DS-2.5RC
	8	12.5	7.5	H3812-ND	.42	5.03	15.00	DF1B-8DS-2.5RC
12	10	15	10	H3813-ND	.42	5.03	15.00	DF1B-10DS-2.5RC
	12	17.5	12.5	H3814-ND	.49	5.86	17.50	DF1B-12DS-2.5RC
	14	20	15	H3815-ND	.49	5.86	17.50	DF1B-14DS-2.5RC
	16	22.5	17.5	H3816-ND	.40	6.00	18.80	DF1B-16DS-2.5RC
	18	25	20	H3817-ND	.40	6.00	18.80	DF1B-18DS-2.5RC
	20	27.5	22.5	H3818-ND	.45	6.75	21.15	DF1B-20DS-2.5RC
	22	30	25	H3819-ND	.45	6.75	21.15	DF1B-22DS-2.5RC
	24	32.5	27.5	H3820-ND	.50	7.50	23.50	DF1B-24DS-2.5RC
	26	35	30	H3821-ND	.50	7.50	23.50	DF1B-26DS-2.5RC
	28	37.5	32.5	H3822-ND	.55	8.25	25.85	DF1B-28DS-2.5RC
	30	40	35	H3823-ND	.60	9.00	28.20	DF1B-30DS-2.5RC
	34	45	40	H3824-ND	.60	9.00	28.20	DF1B-34DS-2.5RC
	36	47.5	42.5	H3825-ND	.65	9.75	30.55	DF1B-36DS-2.5RC
	40	52.5	47.5	H3826-ND	.70	10.50	32.90	DF1B-40DS-2.5RC
Double Row - In-Line (full lock type)								
13	10	15	10	H3754-ND	.72	13.06	42.75	DF1B-10DES-2.5RC
	12	17.5	12.5	H3755-ND	.76	13.75	45.00	DF1B-12DES-2.5RC
	14	20	15	H3756-ND	.80	14.44	47.25	DF1B-14DES-2.5RC
	16	22.5	17.5	H3757-ND	.84	15.13	49.50	DF1B-16DES-2.5RC
	18	25	20	H3758-ND	.87	15.81	51.75	DF1B-18DES-2.5RC
	20	27.5	22.5	H3759-ND	.95	17.19	56.25	DF1B-20DES-2.5RC
	22	30	25	H3760-ND	.99	17.88	58.50	DF1B-22DES-2.5RC
	24	32.5	27.5	H3761-ND	1.03	18.56	60.75	DF1B-24DES-2.5RC
	26	35	30	H3762-ND	1.06	19.25	63.00	DF1B-26DES-2.5RC
	28	37.5	32.5	H3763-ND	1.10	19.94	65.25	DF1B-28DES-2.5RC
	30	40	35	H3764-ND	1.14	20.63	67.50	DF1B-30DES-2.5RC
	32	42.5	37.5	H3765-ND	1.18	21.31	69.75	DF1B-32DES-2.5RC
	34	45	40	H3766-ND	1.22	22.00	72.00	DF1B-34DES-2.5RC

ID Contacts

AWG	Digi-Key Part No.	*Loose Piece* Pricing 1	25	100	Hirose Part No.	*Cut Tape** Pricing 1,000	3,000	5,000	*T & R†* Pricing 10,000	Hirose Part No.
Plug Contacts *Tin Plating*										
24	H3835-ND	.24	2.50	6.20	DF1B-24PR	40.00	36.00/M	30.00/M	25.50/M	DF1B-24PRF
26	H3839-ND	.24	2.50	6.20	DF1B-26PR	40.00	36.00/M	30.00/M	25.50/M	DF1B-26PRF
28	H3843-ND	.24	2.50	6.20	DF1B-28PR	40.00	36.00/M	30.00/M	25.50/M	DF1B-28PRF
Gold Plating										
24	H3837-ND	.28	3.35	10.00	DF1B-24PRB	60.00	54.00/M	45.00/M	37.50/M	DF1B-24PRFB
26	H3841-ND	.28	3.35	10.00	DF1B-26PRB	60.00	54.00/M	45.00/M	37.50/M	DF1B-26PRFB
28	H3845-ND	.28	3.35	10.00	DF1B-28PRB	60.00	54.00/M	45.00/M	37.50/M	DF1B-28PRFB
Socket Contacts *Tin Plating*										
24	H3836-ND	.16	1.63	4.03	DF1B-R24	22.00	19.80/M	16.50/M	14.03/M	DF1B-R24F
26	H3840-ND	.16	1.63	4.03	DF1B-R26	22.00	19.80/M	16.50/M	14.03/M	DF1B-R26F
28	H3844-ND	.16	1.63	4.03	DF1B-R28	22.00	19.80/M	16.50/M	14.03/M	DF1B-R28F
Gold Plating										
24	H3838-ND	.35	4.19	12.50	DF1B-R24A	80.00	72.00/M	60.00/M	50.00/M	DF1B-R24FA
26	H3842-ND	.35	4.19	12.50	DF1B-R26A	80.00	72.00/M	60.00/M	50.00/M	DF1B-R26FA
28	H3846-ND	.35	4.19	12.50	DF1B-R28A	80.00	72.00/M	60.00/M	50.00/M	DF1B-R28FA

* For Cut Tape, add "CT" to the Digi-Key Part No. (H3636CT-ND)
† For Tape & Reel, add "TR" to the Digi-Key Part No. (H3636TR-ND)

Crimping Contacts

AWG	Digi-Key Part No.	*Loose Piece* Pricing 1	25	100	Hirose Part No.	*Cut Tape** Pricing 1,000	3,000	*T & R†* Pricing 10,000	Hirose Part No.
Plug Contacts *Tin Plating*									
20-22	H3827-ND	.24	2.50	6.20	DF1B-2022PC	40.00	36.00/M	25.50/M	DF1B-2022PCF
24-28	H3831-ND	.24	2.50	6.20	DF1B-2428PC	40.00	36.00/M	25.50/M	DF1B-2428PCF
30	H3847-ND	.24	2.50	6.20	DF1B-30PC	40.00	36.00/M	25.50/M	DF1B-30PCF
Gold Plating									
20-22	H3829-ND	.35	4.19	12.50	DF1B-2022PCB	100.00	90.00/M	62.50/M	DF1B-2022PCFB
24-28	H3833-ND	.50	7.50	23.50	DF1-PD2428SCB	120.00	108.00/M	75.00/M	DF1-PD2428SCFB
30	H3849-ND	.42	5.03	15.00	DF1B-30PCB	100.00	90.00/M	62.50/M	DF1B-30PCFB
Socket Contacts *Tin Plating*									
20-22	H3828-ND	.24	2.50	6.20	DF1B-2022SC	20.00	18.00/M	12.75/M	DF1B-2022SCF
24-28	H3832-ND	.24	2.50	6.20	DF1B-2428SC	20.00	18.00/M	12.75/M	DF1B-2428SCF
30	H3848-ND	.24	2.50	6.20	DF1B-30SC	26.00	23.40/M	16.58/M	DF1B-30SCF
Gold Plating									
20-22	H3830-ND	.28	3.35	10.00	DF1B-2022SCA	60.00	54.00/M	37.50/M	DF1B-2022SCFA
24-28	H3834-ND	.27	2.93	8.25	DF1B-2428SCA	60.00	54.00/M	37.50/M	DF1B-2428SCFA
30	H3850-ND	.27	2.93	8.25	DF1B-30SCA	60.00	54.00/M	37.50/M	DF1B-30SCFA

* For Cut Tape, add "CT" to the Digi-Key Part No. (H3636CT-ND)

† For Tape & Reel, add "TR" to the Digi-Key Part No. (H3636TR-ND)

Tools

Description	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Manual ID Tools					
24-28AWG, Plug	H9934-ND	1046.58	—	—	DF1B-T2428HPR
24-28AWG, Socket	H9933-ND	825.19	—	—	DF1B-T2428HR
Manual Crimping Tools					
20-22AWG, Plug	H9935-ND	818.48	—	—	DF1B-TA2022PHC
24-28AWG, Plug	H9937-ND	838.60	—	—	DF1B-TA2428PHC
30AWG, Plug	H9939-ND	838.60	—	—	DF1B-TA30PHC
20-22AWG, Socket	H9936-ND	777.56	—	—	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	796.67	—	—	DF1B-TA2428SHC
30AWG, Socket	H9940-ND	796.67	—	—	DF1B-TA30SHC
Extraction Tools					
ID Socket	H9930-ND	2.99	57.94	185.40	DF-C-PO(A)
ID/Crimp Contact	H9932-ND	11.76	—	—	DF-C-PO(C)

HIROSE ELECTRIC CO.,LTD.

NEW! DF1E Series Connectors

2.5 Pitch for Full Lock and Discrete Wire Connection

Features: • The inner lock system adopts a full lock mechanism. This mechanism prevents disengagement to occur due to an unexpected external shock • The double lock is activated for the use method to give a stress to the cable, to increase crimping contact fixation force, and to prevent the semi-insertion of the crimping contact • Equipped with the mechanism to completely prevent reverse insertion and insertion between dissimilar contacts

Applications: • Electronic equipment • Office machines • Industrial equipment • Consumer equipment

Specifications: • UL: E52653 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temperature Range: -35°C to 85°C • Operating Moisture Range: 20% to 80% • Insulation Resistance: 500VDC, 1000MΩ min. • Withstanding Voltage: 1 min. at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 20mV max. and 1mA, 30mΩ max.

Material: • Insulator: Polyamide, white, UL94V-0 (header insulator: beige and retainer insulator: black) • Contacts: Crimping: Phosphor copper with tin plating Header: Brass with solder plating

Fig. 1

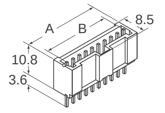


Fig. 2

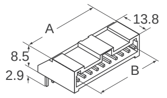


Fig. 3

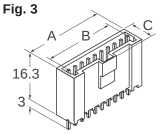


Fig. 4

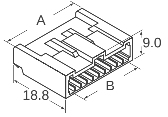


Fig. 5

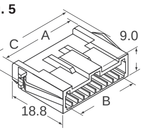


Fig. 6

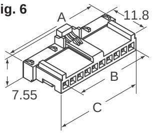
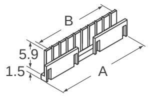


Fig. 7



	No. of	Dimensions (mm)			Digi-Key	Pricing			Hirose
Fig.	Contacts	A	B	C	Part No.	1	25	100	Part No.
Pin Headers (Tin Plating)									
Vertical									
1	2	7.5	2.5	—	H3591-ND	.35	4.19	12.50	DF1EC-2P-2.5DSA
	3	10.0	5.0	—	H3592-ND	.35	4.19	12.50	DF1EC-3P-2.5DSA
	4	12.5	7.5	—	H3593-ND	.42	5.03	15.00	DF1EC-4P-2.5DSA
	5	15.0	10.0	—	H3594-ND	.49	5.86	17.50	DF1EC-5P-2.5DSA
	6	17.5	12.5	—	H3595-ND	.45	6.75	21.15	DF1EC-6P-2.5DSA
	7	20.0	15.0	—	H3596-ND	.50	7.50	23.50	DF1EC-7P-2.5DSA
	8	22.5	17.5	—	H3597-ND	.55	8.25	25.85	DF1EC-8P-2.5DSA
	9	25.0	20.0	—	H3598-ND	.60	9.00	28.20	DF1EC-9P-2.5DSA
	10	27.5	22.5	—	H3599-ND	.65	9.75	30.55	DF1EC-10P-2.5DSA
	11	30.0	25.0	—	H3600-ND	.61	11.00	36.00	DF1EC-11P-2.5DSA
	12	32.5	27.5	—	H3601-ND	.65	11.69	38.25	DF1EC-12P-2.5DSA
	13	35.0	30.0	—	H3602-ND	.68	12.38	40.50	DF1EC-13P-2.5DSA
	14	37.5	32.5	—	H3603-ND	.72	13.06	42.75	DF1EC-14P-2.5DSA
	15	40.0	35.0	—	H3604-ND	.76	13.75	45.00	DF1EC-15P-2.5DSA
Right Angle									
2	2	7.5	2.5	—	H3577-ND	.35	4.19	12.50	DF1E-2P-2.5DS
	3	10.0	5.0	—	H3578-ND	.42	5.03	15.00	DF1E-3P-2.5DS
	4	12.5	7.5	—	H3579-ND	.49	5.86	17.50	DF1E-4P-2.5DS
	5	15.0	10.0	—	H3580-ND	.40	6.00	18.80	DF1E-5P-2.5DS
	6	17.5	12.5	—	H3581-ND	.50	7.50	23.50	DF1E-6P-2.5DS
	7	20.0	15.0	—	H3582-ND	.55	8.25	25.85	DF1E-7P-2.5DS
	8	22.5	17.5	—	H3583-ND	.60	9.00	28.20	DF1E-8P-2.5DS
	9	25.0	20.0	—	H3584-ND	.65	9.75	30.55	DF1E-9P-2.5DS
	10	27.5	22.5	—	H3585-ND	.57	10.31	33.75	DF1E-10P-2.5DS
	11	30.0	25.0	—	H3586-ND	.68	12.38	40.50	DF1E-11P-2.5DS
	12	32.5	27.5	—	H3587-ND	.72	13.06	42.75	DF1E-12P-2.5DS
	13	35.0	30.0	—	H3588-ND	.76	13.75	45.00	DF1E-13P-2.5DS
	14	37.5	32.5	—	H3589-ND	.76	13.75	45.00	DF1E-14P-2.5DS
	15	40.0	35.0	—	H3590-ND	.80	14.44	47.25	DF1E-15P-2.5DS
Vertical for Potting									
3	2	7.5	2.5	7.8	H3605-ND	.49	5.86	17.50	DF1EG-2P-2.5DSA
	3	10.0	5.0	7.8	H3606-ND	.40	6.00	18.80	DF1EG-3P-2.5DSA
	4	12.5	7.5	7.8	H3607-ND	.45	6.75	21.15	DF1EG-4P-2.5DSA
	5	15.0	10.0	8.0	H3608-ND	.50	7.50	23.50	DF1EG-5P-2.5DSA
	6	17.5	12.5	8.0	H3609-ND	.55	8.25	25.85	DF1EG-6P-2.5DSA
	7	20.0	15.0	8.0	H3610-ND	.60	9.00	28.20	DF1EG-7P-2.5DSA
	8	22.5	17.5	8.0	H3611-ND	.70	10.50	32.90	DF1EG-8P-2.5DSA
	9	25.0	20.0	8.0	H3612-ND	.57	10.31	33.75	DF1EG-9P-2.5DSA
	10	27.5	22.5	8.0	H3613-ND	.61	11.00	36.00	DF1EG-10P-2.5DSA
	11	30.0	25.0	8.0	H3614-ND	.84	15.13	49.50	DF1EG-11P-2.5DSA
In-Line Plugs									
4	2	8.0	2.5	—	H3724-ND	.45	6.75	21.15	DF1EA-2EP-2.5C
	3	10.5	5.0	—	H3725-ND	.50	7.50	23.50	DF1EA-3EP-2.5C
	4	13.0	7.5	—	H3726-ND	.55	8.25	25.85	DF1EA-4EP-2.5C
	5	15.5	10.0	—	H3727-ND	.60	9.00	28.20	DF1EA-5EP-2.5C
	6	18.0	12.5	—	H3728-ND	.65	9.75	30.55	DF1EA-6EP-2.5C
	7	20.5	15.0	—	H3729-ND	.70	10.50	32.90	DF1EA-7EP-2.5C
	8	23.0	17.5	—	H3730-ND	.57	10.31	33.75	DF1EA-8EP-2.5C
	9	25.5	20.0	—	H3731-ND	.61	11.00	36.00	DF1EA-9EP-2.5C
	10	28.0	22.5	—	H3732-ND	.65	11.69	38.25	DF1EA-10EP-2.5C
Panel Mount Lock Type									
5	2	8.0	2.5	15.0	H3745-ND	.45	6.75	21.15	DF1E-2EP-2.5C
	3	10.5	5.0	17.5	H3746-ND	.50	7.50	23.50	DF1E-3EP-2.5C
	4	13.0	7.5	20.0	H3747-ND	.55	8.25	25.85	DF1E-4EP-2.5C
	5	15.5	10.0	22.5	H3748-ND	.60	9.00	28.20	DF1E-5EP-2.5C
	6	18.0	12.5	25.0	H3749-ND	.65	9.75	30.55	DF1E-6EP-2.5C
	7	20.5	15.0	27.5	H3750-ND	.70	10.50	32.90	DF1E-7EP-2.5C
	8	23.0	17.5	30.0	H3751-ND	.57	10.31	33.75	DF1E-8EP-2.5C
	9	25.5	20.0	32.5	H3752-ND	.61	11.00	36.00	DF1E-9EP-2.5C
	10	28.0	22.5	35.0	H3753-ND	.65	11.69	38.25	DF1E-10EP-2.5C
Sockets									
6	2	8.0	2.5	5.4	H3767-ND	.27	2.93	8.25	DF1E-2S-2.5C
	3	10.5	5.0	7.9	H3768-ND	.27	2.93	8.25	DF1E-3S-2.5C
	4	13.0	7.5	10.4	H3769-ND	.28	3.35	10.00	DF1E-4S-2.5C
	5	15.5	10.0	12.9	H3770-ND	.28	3.35	10.00	DF1E-5S-2.5C
	6	18.0	12.5	15.4	H3771-ND	.42	5.03	15.00	DF1E-6S-2.5C
	7	20.5	15.0	17.9	H3772-ND	.42	5.03	15.00	DF1E-7S-2.5C
	8	23.0	17.5	20.4	H3773-ND	.49	5.86	17.50	DF1E-8S-2.5C
	9	25.5	20.0	22.9	H3774-ND	.49	5.86	17.50	DF1E-9S-2.5C
	10	28.0	22.5	25.4	H3775-ND	.49	5.86	17.50	DF1E-10S-2.5C
	11	30.5	25.0	27.9	H3776-ND	.50	7.50	23.50	DF1E-11S-2.5C
	12	33.0	27.5	30.4	H3777-ND	.50	7.50	23.50	DF1E-12S-2.5C
	13	35.5	30.0	32.9	H3778-ND	.55	8.25	25.85	DF1E-13S-2.5C
	14	38.0	32.5	35.4	H3779-ND	.55	8.25	25.85	DF1E-14S-2.5C
	15	40.5	35.0	37.9	H3780-ND	.60	9.00	28.20	DF1E-15S-2.5C

	No. of	Dimensions (mm)		Digi-Key	Pricing			Hirose
Fig.	Contacts	A	B	Part No.	1	25	100	Part No.
Retainers								
7	2	8.0	2.5	H3855-ND	.28	3.35	10.00	DF1E-2RS/P-2.5
	3	10.5	5.0	H3856-ND	.28	3.35	10.00	DF1E-3RS/P-2.5
	4	13.0	7.5	H3857-ND	.28	3.35	10.00	DF1E-4RS/P-2.5
	5	15.5	10.0	H3858-ND	.35	4.19	12.50	DF1E-5RS/P-2.5
	6	18.0	12.5	H3859-ND	.35	4.19	12.50	DF1E-6RS/P-2.5
	7	20.5	15.0	H3860-ND	.35	4.19	12.50	DF1E-7RS/P-2.5
	8	23.0	17.5	H3861-ND	.35	4.19	12.50	DF1E-8RS/P-2.5
	9	25.5	20.0	H3862-ND	.35	4.19	12.50	DF1E-9RS/P-2.5
	10	28.0	22.5	H3863-ND	.35	4.19	12.50	DF1E-10RS/P-2.5

Contacts

		Loose Piece Pricing				*Cut Tape** Pricing		*T & R †* Pricing	
AWG	Digi-Key Part No.	1	25	100	Hirose Part No.	1,000	3,000	10,000	Hirose Part No.
Plug Contacts - Tin Plated (annealed copper wire)									
20-22	H3851-ND	.24	2.50	6.20	DF1E-2022PC	20.00	18.00/M	12.75/M	DF1E-2022PCF
24-28	H3853-ND	.24	2.50	6.20	DF1E-2428PC	20.00	18.00/M	12.75/M	DF1E-2428PCF
30	H3854-ND	.24	2.50	6.20	DF1E-30PC	20.00	18.00/M	12.75/M	DF1E-30PCF
Socket Crimping Contacts - Tin Plated (annealed copper wire)									
20-22	H3852-ND	.24	2.50	6.20	DF1E-2022SC	18.00	16.20/M	11.48/M	DF1E-2022SCF
20-22	H3828-ND	.24	2.50	6.20	DF1B-2022SC	20.00	18.00/M	12.75/M	DF1B-2022SCF
24-28	H3832-ND	.24	2.50	6.20	DF1B-2428SC	20.00	18.00/M	12.75/M	DF1B-2428SCF
30	H3848-ND	.24	2.50	6.20	DF1B-30SC	26.00	23.40/M	16.58/M	DF1B-30SCF

* For Cut Tape, add “CT” to the Digi-Key Part No. (H3851CT-ND)

† For Tape & Reel, add “TR” to the Digi-Key Part No. (H3851TR-ND)

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Manual Crimping Tool			
20-22AWG, DF1E	H9941-ND	1013.36	DF1B-T2428HPR
20-22AWG, Socket	H9936-ND	777.56	DF1B-T2428HR
24-28AWG, Socket	H9938-ND	796.67	DF1B-TA2022PHC
20-22AWG, DF1BE	H9942-ND	1057.98	DF1B-TA2022SHC
24-28AWG, DF1BE	H9943-ND	1057.98	DF1B-TA2428SHC
30AWG, DF1BE	H9944-ND	1113.66	DF1B-TA30SHC
Extraction Tool			
Crimp Socket	H9933-ND	825.19	DF-C-PO(A)

DF7 Series Connectors

3.96mm Pitch Miniature Connectors for Secondary Power Supplies (C-UL and TÜV Approved Items)

Features: • Positive locking feature; a complete locking function utilizing an internal system is used in these connectors. This prevents release due to external shock • Usable at maximum current capacity. A maximum current carrying capacity of 10A is permitted when 16AWG wire is used.

Applications: Secondary power supply circuits of a wide variety of electronic, office, industrial, and consumer equipment.

Specifications: • Rated Current: 22AWG: 4A, 20AWG: 5A, 18AWG: 7A and 16AWG: 10A • Rated Voltage: C-UL; AC600V. TÜV; 7.92mm pitch - AC600V, 3.96mm pitch - AC300V • File No. C-UL: E52653 TUV: R9750437 • Contact Resistance: 10mΩ or less (initial) • Insulation Resistance: 1,000m Ω or greater • Single Unit Insertion and Withdrawal Life: 0.3 N min., 4.5 N max. • Insertion/ Withdrawal Life: 20 mΩ or less

Materials: • Sockets: Insulation, polyimide resin, natural (white , UL94V-0 • Headers: Insulation, polyimide (glass strengthened product), natural (beige), UL94V-0. Contacts, brass, solder plating • In-Line Plugs: Insulation, polyimide resin, natural (white), UL94V-0 • Retainers: Insulation, polyimide resin, black, UL94V-0 • Crimp Terminals: Contacts, copper alloy, tin plating

Fig. 1

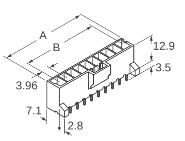


Fig. 2

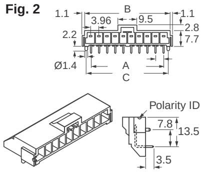


Fig. 3

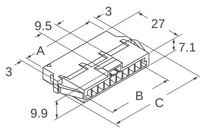


Fig. 4

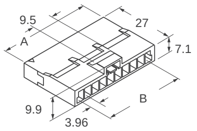


Fig. 5

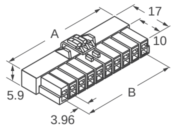
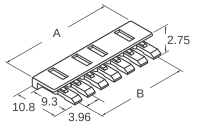


Fig. 6



(Continued)

HIROSE
ELECTRIC
CO.,LTD.

DF7 Series Connectors *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Headers									
Vertical									
1	2	10.40	3.96	—	H2669-ND	.47	7.03	22.02	DF7-2P-3.96DSA
	3	14.36	7.92	—	H2670-ND	.56	8.47	26.53	DF7-3P-3.96DSA
	4	18.32	11.88	—	H2671-ND	.66	9.92	31.07	DF7-4P-3.96DSA
	5	22.28	15.84	—	H2672-ND	.62	11.23	36.77	DF7-5P-3.96DSA
	6	26.24	19.80	—	H2673-ND	.69	12.57	41.13	DF7-6P-3.96DSA
	7	30.20	23.76	—	H2674-ND	.77	13.93	45.59	DF7-7P-3.96DSA
	8	34.16	27.72	—	H2675-ND	.93	16.81	55.01	DF7-8P-3.96DSA
	9	38.12	31.68	—	H2676-ND	1.01	18.24	59.69	DF7-9P-3.96DSA
	10	42.08	35.64	—	H2677-ND	1.09	19.79	64.78	DF710P-3.96DSA
	2*	14.36	7.92	—	H2678-ND	.56	8.47	26.53	DF7-2P-7.92DSA
	3*	22.28	15.84	—	H2679-ND	.58	10.54	34.49	DF7-3P-7.92DSA
Right-Angle									
2	2	3.96	10.40	8.40	H2680-ND	.55	8.18	25.62	DF7-2P-3.96DS
	3	7.92	14.36	12.36	H2681-ND	.65	9.76	30.57	DF7-3P-3.96DS
	4	11.88	18.32	16.32	H2682-ND	.58	10.41	34.07	DF7-4P-3.96DS
	5	15.84	22.28	20.28	H2683-ND	.71	12.90	42.21	DF7-5P-3.96DS
	6	19.80	26.24	24.24	H2684-ND	.79	14.36	46.98	DF7-6P-3.96DS
	7	23.76	30.20	28.20	H2685-ND	.88	15.85	51.86	DF7-7P-3.96DS
	8	27.72	34.16	32.16	H2686-ND	1.07	19.35	63.34	DF7-8P-3.96DS
	9	31.68	38.12	36.12	H2687-ND	1.15	20.82	68.13	DF7-9P-3.96DS
	10	35.64	42.08	40.08	H2688-ND	1.23	22.30	72.99	DF7-10P-3.96DS
	2†	7.92	14.36	12.36	H2689-ND	.68	10.23	32.05	DF7-2P-7.92DS
	3†	15.84	22.28	20.28	H2690-ND	.71	12.87	42.12	DF7-3P-7.92DS
Plugs									
In-Line — Panel Lock Type									
3	2	10.40	3.96	17.40	H2691-ND	.34	4.05	12.08	DF7-2EP-3.96C
	3	14.36	7.92	21.36	H2692-ND	.39	4.69	14.00	DF7-3EP-3.96C
	4	18.32	11.88	25.32	H2693-ND	.45	5.38	16.05	DF7-4EP-3.96C
	5	22.28	15.84	29.28	H2694-ND	.65	11.69	38.27	DF7-5EP-3.96C
	6	26.24	19.80	33.24	H2695-ND	.70	12.70	41.56	DF7-6EP-3.96C
	7	30.20	23.76	37.20	H2696-ND	.75	13.49	44.15	DF7-7EP-3.96C
	8	34.16	27.72	41.16	H2697-ND	.79	14.31	46.85	DF7-8EP-3.96C
	9	38.12	31.68	45.12	H2698-ND	.84	15.13	49.50	DF7-9EP-3.96C
	10	42.08	35.64	49.08	H2699-ND	.88	15.94	52.16	DF7-10EP-3.96C
In-Line									
4	2	10.40	3.96	—	H2700-ND	.34	4.05	12.08	DF7A-2EP-3.96C
	3	14.36	7.92	—	H2701-ND	.39	4.69	14.00	DF7A-3EP-3.96C
	4	18.32	11.88	—	H2702-ND	.45	5.38	16.05	DF7A-4EP-3.96C
	5	22.28	15.84	—	H2703-ND	.65	11.69	38.27	DF7A-5EP-3.96C
	6	26.24	19.80	—	H2704-ND	.80	14.41	47.16	DF7A -6EP-3.96C
	7	30.20	23.76	—	H2705-ND	.75	13.49	44.15	DF7A-7EP-3.96C
	9	38.12	31.68	—	H2707-ND	.84	15.13	49.50	DF7A-9EP-3.96C
Sockets									
5	2	10.00	3.96	—	H2709-ND	.33	3.58	10.09	DF7-2S-3.96C
	3	13.96	7.92	—	H2710-ND	.30	3.63	10.83	DF7-3S-3.96C
	4	17.92	11.88	—	H2711-ND	.35	4.20	12.53	DF7-4S-3.96C
	5	21.88	15.84	—	H2712-ND	.49	5.82	17.38	DF7-5S-3.96C
	6	25.84	19.80	—	H2713-ND	.53	6.38	19.05	DF7-6S-3.96C
	8	33.76	27.72	—	H2715-ND	.36	3.87	10.92	DF7-8S-3.96C
	9	37.72	31.68	—	H2716-ND	.65	9.71	30.41	DF7-9S-3.96C
	10	41.68	35.64	—	H2717-ND	.70	10.43	32.69	DF7-10S-3.96C
Retainers for both Sockets and In-Line Plugs									
6	2	10.00	3.96	—	H2718-ND	.33	3.54	9.98	DF7-2RS/P-3.96
	3	13.96	7.92	—	H2719-ND	.28	3.38	10.08	DF7-3RS/P-3.96
	4	17.92	11.88	—	H2720-ND	.31	3.69	11.03	DF7-4RS/P-3.96
	5	21.88	15.84	—	H2721-ND	.47	5.66	16.90	DF7-5RS/P-3.96
	6	25.84	19.80	—	H2722-ND	.51	6.14	18.33	DF7-6RS/P-3.96
	8	33.76	27.72	—	H2724-ND	.43	6.43	20.14	DF7-8RS/P-3.96
	9	37.72	31.68	—	H2725-ND	.46	6.85	21.46	DF7-9RS/P-3.96

* DF7-2P-7.92DSA is DF7-3P-3.96DSA with No. 2 pin removed and the number of contacts are indicated as 2.
DF7-3P-7.92DSA is DF7-5P-3.96DSA with No. 2 and 4 pins removed and the number of contacts are indicated as 3.

† DF7-2P-7.92DS is DF7-3P-3.96DS with No. 2 pin removed and the number of contacts are indicated as 2.
DF7-3P-7.92DS is DF7-5P-3.96DS with No. 2 and 4 pins removed and the number of contacts are indicated as 3.

Crimp Terminals

Descrip-tion	Digi-Key Part No.	*Loose Piece* Pricing 100	Hirose Part No.	*Cut Tape** Pricing 10	50	100	*Tape & Reel †* Pricing 3,000	Hirose Part No.
Female - Tin Plating								
16-18	H2728-ND	9.87	DF7-1618SC	2.76	7.50	12.24	32.34/M	DF7-1618SCF
20-22	H2730-ND	9.87	DF7-2022SC	2.76	7.50	12.24	32.34/M	DF7-2022SCF
Male - Tin Plating								
16-18	H2732-ND	10.00	DF7-1618PC	2.42	7.04	12.10	37.09/M	DF7-1618PCF
20-22	H2734-ND	10.00	DF7-2022PC	2.42	7.04	12.10	37.09/M	DF7-2022PCF
Tools								
Manual Crimper for DF7 Series 16-18 AWG			H9986-ND	1520.10 each				HT104/DF7-1618
Manual Crimper for DF7 Series 20-22 AWG			H9987-ND	1520.10 each				HT104/DF7-2022

* For Cut Tape, add "CT" to the Digi-Key Part No. (H2728CT-ND)

† For Tape & Reel, add "TR" to the Digi-Key Part No. (H2728TR-ND)

DF22 Series Connectors

7.92mm Pitch Connectors for High-Current Internal Power Supplies

Features: • 20A maximum current capacity. The connector can carry a maximum current of 20A with 12AWG wire. • Complete Lock Function: Secure latch mechanism the fully shrouded latch mechanism is resistant to accidental unlatching from shock, and vibration

Applications: Consumer-electronics and power supplies for electronic devices, business machines, and industrial machinery

Specifications: • Operating Temp. Range: -35°C to 85°C • Contact Resistance: 5mΩ or less (initial) • Insulation Resistance: 1,000MΩ or more

No. of Con.	Rated Current 12AWG	14AWG	16AWG
2	20A	18A	15A
3	20A	18A	15A
4	18A	15A	13A
5	18A	15A	13A

Material: • Crimp Socket: Insulation, polyimide resin, natural (white),UL94V-0 • Female Crimp Contact: Terminal, high conductivity copper alloy, tin (whiskers free) • Header Insulation: Polyimide resin (glass reinforced), natural (beige), UL94V-0 • Header Terminal: High-conductivity copper alloy, tin (whiskers free)

Fig. 1

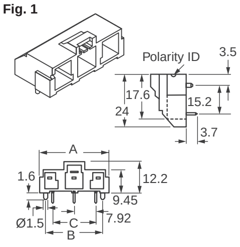


Fig. 2

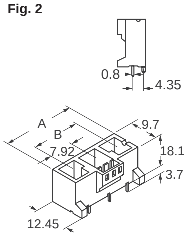
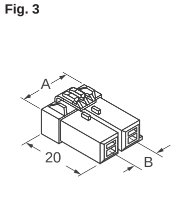
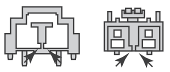


Fig. 3

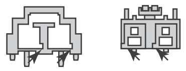


Polarizing Options

Style A — Standard Type



Style B — R Type, Black



Style C — L Type, Red

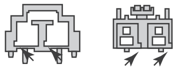


Fig.	No. of Contacts	Dimension (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Headers									
Right-Angle									
1A	2	19.80	15.00	7.92	H2776-ND	.70	12.60	41.22	DF22-2P-7.92DS
	3	27.72	22.92	15.84	H2777-ND	.95	17.18	56.23	DF22-3P-7.92DS
	4	35.64	30.84	23.76	H2778-ND	1.15	20.73	67.84	DF22-4P-7.92DS
	5	43.56	38.76	31.68	H2779-ND	1.34	24.25	79.36	DF22-5P-7.92DS
1B	2	19.80	15.00	7.92	H1613-ND	.74	13.34	43.65	DF22R-2P-7.92DS
	3	27.72	22.92	15.84	H1616-ND	1.00	18.08	59.18	DF22R-3P-7.92DS
	4	35.64	30.84	23.76	H1619-ND	1.22	22.07	72.23	DF22R-4P-7.92DS
	5	43.56	38.76	31.68	H1622-ND	1.43	25.92	84.83	DF22R-5P-7.92DS
1C	2	19.80	15.00	7.92	H1601-ND	.74	13.34	43.65	DF22L-2P-7.92DS
	3	27.72	22.92	15.84	H1604-ND	1.00	18.08	59.18	DF22L-3P-7.92DS
	4	35.64	30.84	23.76	H1607-ND	1.22	22.07	72.23	DF22L-4P-7.92DS
	5	43.56	38.76	31.68	H1610-ND	1.43	25.92	84.83	DF22L-5P-7.92DS
Vertical									
2A	2	17.22	7.92	—	H2780-ND	.71	12.77	41.78	DF22-2P-7.92DSA
	3	25.14	15.84	—	H2781-ND	.97	17.46	57.15	DF22-3P-7.92DSA
	4	33.06	23.76	—	H2782-ND	1.16	21.07	68.94	DF22-4P-7.92DSA
	5	40.98	31.68	—	H2783-ND	1.36	24.62	80.57	DF22-5P-7.92DSA
2B	2	17.22	7.92	—	H1614-ND	.73	13.27	43.43	DF22R-2P-7.92DSA
	3	25.14	15.84	—	H1617-ND	1.00	18.15	59.40	DF22R-3P-7.92DSA
	4	33.06	23.76	—	H1620-ND	1.22	22.14	72.45	DF22R-4P-7.92DSA
	5	40.98	31.68	—	H1623-ND	1.44	25.99	85.05	DF22R-5P-7.92DSA
2C	2	17.22	7.92	—	H1602-ND	.73	13.27	43.43	DF22L-2P-7.92DSA
	3	25.14	15.84	—	H1605-ND	1.00	18.15	59.40	DF22L-3P-7.92DSA
	4	33.06	23.76	—	H1608-ND	1.22	22.14	72.45	DF22L-4P-7.92DSA
	5	40.98	31.68	—	H1611-ND	1.44	25.99	85.05	DF22L-5P-7.92DSA
Crimp Socket Housing									
3A	2	15.50	7.92	—	H2784-ND	.39	4.72	14.10	DF22-2S-7.92C(28)
	3	23.42	15.84	—	H2785-ND	.48	7.24	22.68	DF22-3S-7.92C(28)
	4	31.34	23.76	—	H2786-ND	.56	8.45	26.46	DF22-4S-7.92C(28)
	5	39.26	31.68	—	H2787-ND	.64	9.54	29.89	DF22-5S-7.92C(28)
3B	2	15.50	7.92	—	H1615-ND	.43	5.19	15.50	DF22R-2S-7.92C(28)
	3	23.42	15.84	—	H1618-ND	.54	8.03	25.15	DF22R-3S-7.92C(28)
	4	31.34	23.76	—	H1621-ND	.65	9.68	30.32	DF22R-4S-7.92C(28)
	5	39.26	31.68	—	H1624-ND	.60	10.86	35.55	DF22R-5S-7.92C(28)
3C	2	15.50	7.92	—	H1603-ND	.43	5.19	15.50	DF22L-2S-7.92C(28)
	3	23.42	15.84	—	H1606-ND	.54	8.03	25.15	DF22L-3S-7.92C(28)
	4	31.34	23.76	—	H1609-ND	.65	9.68	30.32	DF22L-4S-7.92C(28)
	5	39.26	31.68	—	H1612-ND	.74	11.10	34.78	DF22L-5S-7.92C(28)

Contacts

Description	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Tape & Reel* Pricing	Hirose Part No.
14-16 AWG	H2788CT-ND	2.11	6.15	10.57	134.58/2,500	DF22-1416SCF
14-16 AWG	H2789CT-ND	1.79	5.98	10.31	111.35/2,000	DF22A-1416SCF

* For Tape and Reel Part Number change CT-ND to TR-ND

HIROSE ELECTRIC CO.,LTD. DF3, DF7, DF11, DF13, DF22 Interconnect Wire (housing available)

CONTACT SPECIFICATIONS: • Rated Current: **DF3:** *24AWG:* 3A, *26 AWG:* 2A, *28AWG:* 1A **DF11:** *24-26 AWG:* 2A, *28 AWG:* 1A • Operating Temperature: -30°C to +85°C • Rated Voltage: AC250V • Insulation Resistance: 1000 MΩ or more • Contact Resistance: 30 mΩ or less • Insertion / Withdrawals Force: Min. 0.3 N (30gf), Max. 4.4 N (450gf) • Material (crimp terminal for socket): Phosphor bronze with tin or gold plating. **Safety**

Standards: UL: E52653 and CSA: LR95109.

WIRE SPECIFICATIONS: • Stranded tinned copper conductor • Color coded PVC insulation • Flammability: Passes UL VW-1 flame test • Wire is ordered per EIA-359-A color specifications which allows for some variation in shade • Operating Temperature: -40°C to +90°C (CSA TR-64), -40°C to +80°C (UL AWM 1007)

H □ □ □ □ - □ □ □ □ □ - □ □ - ND

Hirose Cable Assembly

SERIES
2 = DF3 Series
5 = DF7 Series
3 = DF11 Series
4 = DF13 Series
6 = DF22 Series

CONTACT END
A = Male/Pin
B = Female/Socket
X = Single Ended

FINISH
T = Tin
G = Gold

1 = Single Row
2 = Double Row

NO. OF CONDUCTORS
01 = One

LENGTH OF WIRE FOR THE JUMPER (Inch)
02 = 2 Inches
03 = 3 Inches
04 = 4 Inches
05 = 5 Inches
06 = 6 Inches
08 = 8 Inches
10 = 10 Inches
12 = 12 Inches

COLOR OF WIRE
A = Orange
B = Black
G = Green
L = Blue
N = Brown
R = Red
S = Gray
V = Violet
W = White
Y = Yellow

WIRE GAGE SIZE
7 = 16 AWG
9 = 18 AWG
0 = 20 AWG
2 = 22 AWG
4 = 24 AWG
6 = 26 AWG
8 = 28 AWG
1 = 30 AWG

Fig. 1 — Socket to Socket

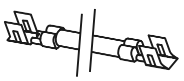


Fig. 2 — Pin to Socket

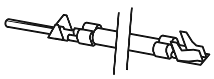


Fig. 3 — Pin to Pin

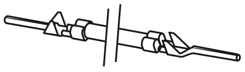


Fig. 4 — Socket Single End

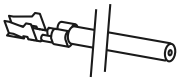
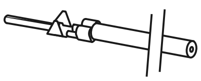


Fig. 5 — Pin Single End



* For □ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (in.)	Digi-Key Part No.	Price Each 10	100	250
DF3 - TIN PLATED CONTACTS					
24 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBT-10102-□4-ND	.54	.40	.35
	3	H2BBT-10103-□4-ND	.55	.41	.35
	4	H2BBT-10104-□4-ND	.55	.41	.35
	5	H2BBT-10105-□4-ND	.56	.41	.36
	6	H2BBT-10106-□4-ND	.56	.42	.36
	8	H2BBT-10108-□4-ND	.57	.42	.37
	10	H2BBT-10110-□4-ND	.58	.43	.37
	12	H2BBT-10112-□4-ND	.59	.44	.38
Fig. 2 (Pin to Socket)	2	H2ABT-10102-□4-ND	.55	.41	.35
	3	H2ABT-10103-□4-ND	.56	.41	.36
	4	H2ABT-10104-□4-ND	.56	.42	.36
	5	H2ABT-10105-□4-ND	.57	.42	.36
	6	H2ABT-10106-□4-ND	.58	.43	.37
	8	H2ABT-10108-□4-ND	.59	.43	.37
	10	H2ABT-10110-□4-ND	.60	.44	.38
	12	H2ABT-10112-□4-ND	.61	.45	.39
Fig. 3 (Pin to Pin)	2	H2AAT-10102-□4-ND	.57	.42	.36
	3	H2AAT-10103-□4-ND	.57	.42	.37
	4	H2AAT-10104-□4-ND	.58	.43	.37
	5	H2AAT-10105-□4-ND	.58	.43	.37
	6	H2AAT-10106-□4-ND	.59	.43	.37
	8	H2AAT-10108-□4-ND	.60	.44	.38
	10	H2AAT-10110-□4-ND	.61	.45	.39
	12	H2AAT-10112-□4-ND	.62	.46	.39
Fig. 4 (Socket Single End)	2	H2BXT-10102-□4-ND	.52	.39	.33
	3	H2BXT-10103-□4-ND	.53	.39	.34
	4	H2BXT-10104-□4-ND	.53	.39	.34
	5	H2BXT-10105-□4-ND	.54	.40	.34
	6	H2BXT-10106-□4-ND	.54	.40	.35
	8	H2BXT-10108-□4-ND	.55	.41	.35
	10	H2BXT-10110-□4-ND	.56	.42	.36
	12	H2BXT-10112-□4-ND	.57	.42	.37
Fig. 5 (Pin Single End)	2	H2AXT-10102-□4-ND	.53	.39	.34
	3	H2AXT-10103-□4-ND	.54	.40	.34
	4	H2AXT-10104-□4-ND	.54	.40	.35
	5	H2AXT-10105-□4-ND	.55	.41	.35
	6	H2AXT-10106-□4-ND	.55	.41	.35
	8	H2AXT-10108-□4-ND	.56	.42	.36
	10	H2AXT-10110-□4-ND	.57	.42	.37
	12	H2AXT-10112-□4-ND	.58	.43	.37
26 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBT-10102-□6-ND	.54	.40	.35
	3	H2BBT-10103-□6-ND	.55	.41	.35
	4	H2BBT-10104-□6-ND	.55	.41	.35
	5	H2BBT-10105-□6-ND	.56	.41	.36
	6	H2BBT-10106-□6-ND	.56	.42	.36
	8	H2BBT-10108-□6-ND	.57	.42	.37
	10	H2BBT-10110-□6-ND	.58	.43	.37
	12	H2BBT-10112-□6-ND	.59	.44	.38
Fig. 2 (Pin to Socket)	2	H2ABT-10102-□6-ND	.55	.41	.35
	3	H2ABT-10103-□6-ND	.56	.41	.36
	4	H2ABT-10104-□6-ND	.56	.42	.36
	5	H2ABT-10105-□6-ND	.57	.42	.36
	6	H2ABT-10106-□6-ND	.57	.42	.37
	8	H2ABT-10108-□6-ND	.58	.43	.37
	10	H2ABT-10110-□6-ND	.59	.44	.38
	12	H2ABT-10112-□6-ND	.60	.45	.38
Fig. 3 (Pin to Pin)	2	H2AAT-10102-□6-ND	.57	.42	.36
	3	H2AAT-10103-□6-ND	.57	.42	.36
	4	H2AAT-10104-□6-ND	.58	.43	.37
	5	H2AAT-10105-□6-ND	.58	.43	.37
	6	H2AAT-10106-□6-ND	.58	.43	.37
	8	H2AAT-10108-□6-ND	.59	.44	.38
	10	H2AAT-10110-□6-ND	.60	.45	.39
	12	H2AAT-10112-□6-ND	.61	.45	.39
Fig. 4 (Socket Single End)	2	H2BXT-10102-□6-ND	.52	.39	.33
	3	H2BXT-10103-□6-ND	.53	.39	.34
	4	H2BXT-10104-□6-ND	.53	.39	.34
	5	H2BXT-10105-□6-ND	.54	.40	.34
	6	H2BXT-10106-□6-ND	.54	.40	.35
	8	H2BXT-10108-□6-ND	.55	.41	.35
	10	H2BXT-10110-□6-ND	.56	.41	.36
	12	H2BXT-10112-□6-ND	.57	.42	.36
Fig. 5 (Pin Single End)	2	H2AXT-10102-□6-ND	.53	.39	.34
	3	H2AXT-10103-□6-ND	.54	.40	.34
	4	H2AXT-10104-□6-ND	.54	.40	.35
	5	H2AXT-10105-□6-ND	.55	.40	.35
	6	H2AXT-10106-□6-ND	.55	.41	.35
	8	H2AXT-10108-□6-ND	.56	.41	.36
	10	H2AXT-10110-□6-ND	.57	.42	.36
	12	H2AXT-10112-□6-ND	.58	.43	.37
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBT-10102-□8-ND	.54	.40	.35
	3	H2BBT-10103-□8-ND	.55	.41	.35
	4	H2BBT-10104-□8-ND	.56	.41	.36
	5	H2BBT-10105-□8-ND	.56	.41	.36
	6	H2BBT-10106-□8-ND	.57	.42	.36
	8	H2BBT-10108-□8-ND	.58	.43	.37
	10	H2BBT-10110-□8-ND	.59	.43	.38
	12	H2BBT-10112-□8-ND	.60	.44	.38
Fig. 2 (Pin to Socket)	2	H2ABT-10102-□8-ND	.56	.41	.36
	3	H2ABT-10103-□8-ND	.56	.41	.36
	4	H2ABT-10104-□8-ND	.57	.42	.36
	5	H2ABT-10105-□8-ND	.57	.42	.37
	6	H2ABT-10106-□8-ND	.58	.43	.37
	8	H2ABT-10108-□8-ND	.59	.43	.38
	10	H2ABT-10110-□8-ND	.60	.44	.38
	12	H2ABT-10112-□8-ND	.61	.45	.39
Fig. 3 (Pin to Pin)	2	H2AAT-10102-□8-ND	.57	.42	.36
	3	H2AAT-10103-□8-ND	.57	.42	.37
	4	H2AAT-10104-□8-ND	.58	.43	.37
	5	H2AAT-10105-□8-ND	.58	.43	.37
	6	H2AAT-10106-□8-ND	.59	.44	.38
	8	H2AAT-10108-□8-ND	.60	.44	.38
	10	H2AAT-10110-□8-ND	.61	.45	.39
	12	H2AAT-10112-□8-ND	.62	.46	.40
Fig. 4 (Socket Single End)	2	H2BXT-10102-□8-ND	.52	.39	.33
	3	H2BXT-10103-□8-ND	.53	.39	.34
	4	H2BXT-10104-□8-ND	.53	.39	.34
	5	H2BXT-10105-□8-ND	.54	.40	.34
	6	H2BXT-10106-□8-ND	.54	.40	.35
	8	H2BXT-10108-□8-ND	.55	.41	.35
	10	H2BXT-10110-□8-ND	.57	.42	.36
	12	H2BXT-10112-□8-ND	.58	.43	.37
Fig. 5 (Pin Single End)	2	H2AXT-10102-□8-ND	.53	.39	.34
	3	H2AXT-10103-□8-ND	.54	.40	.34
	4	H2AXT-10104-□8-ND	.54	.40	.35
	5	H2AXT-10105-□8-ND	.55	.41	.35
	6	H2AXT-10106-□8-ND	.55	.41	.35
	8	H2AXT-10108-□8-ND	.57	.42	.36
	10	H2AXT-10110-□8-ND	.58	.43	.37
	12	H2AXT-10112-□8-ND	.59	.43	.38
DF3 - 15µ GOLD PLATED CONTACTS					
24 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBG-10102-□4-ND	.61	.45	.39
	3	H2BBG-10103-□4-ND	.62	.45	.39
	4	H2BBG-10104-□4-ND	.62	.46	.40
	5	H2BBG-10105-□4-ND	.63	.46	.40
	6	H2BBG-10106-□4-ND	.63	.47	.40
	8	H2BBG-10108-□4-ND	.64	.47	.41
	10	H2BBG-10110-□4-ND	.65	.48	.42
	12	H2BBG-10112-□4-ND	.66	.49	.42
Fig. 2 (Pin to Socket)	2	H2ABG-10102-□4-ND	.67	.49	.43
	3	H2ABG-10103-□4-ND	.67	.50	.43
	4	H2ABG-10104-□4-ND	.68	.50	.43
	5	H2ABG-10105-□4-ND	.68	.50	.43
	6	H2ABG-10106-□4-ND	.69	.51	.44
	8	H2ABG-10108-□4-ND	.70	.51	.44
	10	H2ABG-10110-□4-ND	.71	.52	.45
	12	H2ABG-10112-□4-ND	.72	.53	.46
Fig. 3 (Pin to Pin)	2	H2AAG-10102-□4-ND	.72	.53	.46
	3	H2AAG-10103-□4-ND	.73	.54	.46
	4	H2AAG-10104-□4-ND	.73	.54	.47
	5	H2AAG-10105-□4-ND	.74	.54	.47
	6	H2AAG-10106-□4-ND	.74	.55	.47
	8	H2AAG-10108-□4-ND	.75	.55	.48
	10	H2AAG-10110-□4-ND	.76	.56	.49
	12	H2AAG-10112-□4-ND	.77	.57	.49
Fig. 4 (Socket Single End)	2	H2BXG-10102-□4-ND	.55	.41	.35
	3	H2BXG-10103-□4-ND	.56	.41	.36
	4	H2BXG-10104-□4-ND	.56	.42	.36
	5	H2BXG-10105-□4-ND	.57	.42	.36
	6	H2BXG-10106-□4-ND	.57	.43	.37
	8	H2BXG-10108-□4-ND	.58	.43	.37
	10	H2BXG-10110-□4-ND	.59	.44	.38
	12	H2BXG-10112-□4-ND	.60	.45	.39
Fig. 5 (Pin Single End)	2	H2AXG-10102-□4-ND	.61	.45	.39
	3	H2AXG-10103-□4-ND	.61	.45	.39
	4	H2AXG-10104-□4-ND	.62	.46	.40
	5	H2AXG-10105-□4-ND	.62	.46	.40
	6	H2AXG-10106-□4-ND	.63	.47	.40
	8	H2AXG-10108-□4-ND	.64	.47	.41
	10	H2AXG-10110-□4-ND	.65	.48	.42
	12	H2AXG-10112-□4-ND	.66	.49	.42
26 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBG-10102-□6-ND	.61	.45	.39
	3	H2BBG-10103-□6-ND	.61	.45	.39
	4	H2BBG-10104-□6-ND	.62	.46	.40
	5	H2BBG-10105-□6-ND	.62	.46	.40

(Continued)

HRS HIROSE ELECTRIC CO.,LTD. DF3, DF7, DF11, DF13, DF22 Interconnect Wire **(housing available)** *(Cont.)*

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (In.)	Digi-Key Part No.	Price Each		
			10	100	250
Fig. 1 (Socket to Socket)	6	H2BBG-10106-☐6-ND	.63	.46	.40
	8	H2BBG-10108-☐6-ND	.64	.47	.41
	10	H2BBG-10110-☐6-ND	.65	.48	.41
	12	H2BBG-10112-☐6-ND	.66	.49	.42
Fig. 2 (Pin to Socket)	2	H2ABG-10102-☐6-ND	.66	.49	.42
	3	H2ABG-10103-☐6-ND	.67	.49	.43
	4	H2ABG-10104-☐6-ND	.67	.50	.43
	5	H2ABG-10105-☐6-ND	.68	.50	.43
	6	H2ABG-10106-☐6-ND	.68	.51	.44
	8	H2ABG-10108-☐6-ND	.69	.51	.44
	10	H2ABG-10110-☐6-ND	.70	.52	.45
	12	H2ABG-10112-☐6-ND	.71	.53	.46
Fig. 3 (Pin to Pin)	2	H2AAG-10102-☐6-ND	.72	.53	.46
	3	H2AAG-10103-☐6-ND	.72	.54	.46
	4	H2AAG-10104-☐6-ND	.73	.54	.47
	5	H2AAG-10105-☐6-ND	.73	.54	.47
	6	H2AAG-10106-☐6-ND	.74	.55	.47
	8	H2AAG-10108-☐6-ND	.75	.55	.48
	10	H2AAG-10110-☐6-ND	.76	.56	.48
	12	H2AAG-10112-☐6-ND	.77	.57	.49
Fig. 4 (Socket Single End)	2	H2BXG-10102-☐6-ND	.55	.41	.35
	3	H2BXG-10103-☐6-ND	.56	.41	.36
	4	H2BXG-10104-☐6-ND	.56	.42	.36
	5	H2BXG-10105-☐6-ND	.57	.42	.36
	6	H2BXG-10106-☐6-ND	.57	.42	.37
	8	H2BXG-10108-☐6-ND	.58	.43	.37
	10	H2BXG-10110-☐6-ND	.59	.44	.38
	12	H2BXG-10112-☐6-ND	.60	.44	.38
Fig. 5 (Pin Single End)	2	H2AXG-10102-☐6-ND	.61	.45	.39
	3	H2AXG-10103-☐6-ND	.61	.45	.39
	4	H2AXG-10104-☐6-ND	.62	.46	.40
	5	H2AXG-10105-☐6-ND	.62	.46	.40
	6	H2AXG-10106-☐6-ND	.63	.46	.40
	8	H2AXG-10108-☐6-ND	.64	.47	.41
	10	H2AXG-10110-☐6-ND	.65	.48	.41
	12	H2AXG-10112-☐6-ND	.66	.49	.42
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBG-10102-☐8-ND	.61	.45	.39
	3	H2BBG-10103-☐8-ND	.62	.46	.39
	4	H2BBG-10104-☐8-ND	.62	.46	.40
	5	H2BBG-10105-☐8-ND	.63	.46	.40
	6	H2BBG-10106-☐8-ND	.63	.47	.40
	8	H2BBG-10108-☐8-ND	.64	.48	.41
	10	H2BBG-10110-☐8-ND	.65	.48	.42
	12	H2BBG-10112-☐8-ND	.66	.49	.42
Fig. 2 (Pin to Socket)	2	H2ABG-10102-☐8-ND	.67	.49	.43
	3	H2ABG-10103-☐8-ND	.67	.50	.43
	4	H2ABG-10104-☐8-ND	.68	.50	.43
	5	H2ABG-10105-☐8-ND	.68	.50	.44
	6	H2ABG-10106-☐8-ND	.69	.51	.44
	8	H2ABG-10108-☐8-ND	.70	.52	.45
	10	H2ABG-10110-☐8-ND	.71	.52	.45
	12	H2ABG-10112-☐8-ND	.72	.53	.46
Fig. 3 (Pin to Pin)	2	H2AAG-10102-☐8-ND	.72	.53	.46
	3	H2AAG-10103-☐8-ND	.73	.54	.46
	4	H2AAG-10104-☐8-ND	.73	.54	.47
	5	H2AAG-10105-☐8-ND	.74	.55	.47
	6	H2AAG-10106-☐8-ND	.74	.55	.47
	8	H2AAG-10108-☐8-ND	.75	.56	.48
	10	H2AAG-10110-☐8-ND	.76	.56	.49
	12	H2AAG-10112-☐8-ND	.78	.57	.50
Fig. 4 (Socket Single End)	2	H2BXG-10102-☐8-ND	.56	.41	.36
	3	H2BXG-10103-☐8-ND	.56	.41	.36
	4	H2BXG-10104-☐8-ND	.57	.42	.36
	5	H2BXG-10105-☐8-ND	.57	.42	.37
	6	H2BXG-10106-☐8-ND	.58	.43	.37
	8	H2BXG-10108-☐8-ND	.59	.43	.38
	10	H2BXG-10110-☐8-ND	.60	.44	.38
	12	H2BXG-10112-☐8-ND	.61	.45	.39
Fig. 5 (Pin Single End)	2	H2AXG-10102-☐8-ND	.61	.45	.39
	3	H2AXG-10103-☐8-ND	.62	.46	.39
	4	H2AXG-10104-☐8-ND	.62	.46	.40
	5	H2AXG-10105-☐8-ND	.63	.46	.40
	6	H2AXG-10106-☐8-ND	.63	.47	.40
	8	H2AXG-10108-☐8-ND	.64	.48	.41
	10	H2AXG-10110-☐8-ND	.65	.48	.42
	12	H2AXG-10112-☐8-ND	.66	.49	.42

Fig.	Cable Length (In.)	Digi-Key Part No.	Price Each		
			10	100	250
DF11 - TIN PLATED CONTACTS					
24 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBT-10102-☐4-ND	.55	.40	.35
	3	H3BBT-10103-☐4-ND	.55	.41	.35
	4	H3BBT-10104-☐4-ND	.56	.41	.36
	5	H3BBT-10105-☐4-ND	.56	.42	.36
	6	H3BBT-10106-☐4-ND	.57	.42	.36
	8	H3BBT-10108-☐4-ND	.58	.43	.37
	10	H3BBT-10110-☐4-ND	.59	.43	.38
	12	H3BBT-10112-☐4-ND	.60	.44	.38
Fig. 2 (Pin to Socket)	2	H3ABT-10102-☐4-ND	.56	.41	.36
	3	H3ABT-10103-☐4-ND	.56	.42	.36
	4	H3ABT-10104-☐4-ND	.57	.42	.36
	5	H3ABT-10105-☐4-ND	.57	.42	.37
	6	H3ABT-10106-☐4-ND	.58	.43	.37
	8	H3ABT-10108-☐4-ND	.59	.44	.38
	10	H3ABT-10110-☐4-ND	.60	.44	.38
	12	H3ABT-10112-☐4-ND	.61	.45	.39
Fig. 3 (Pin to Pin)	2	H3AAT-10102-☐4-ND	.57	.42	.36
	3	H3AAT-10103-☐4-ND	.57	.42	.37
	4	H3AAT-10104-☐4-ND	.58	.43	.37
	5	H3AAT-10105-☐4-ND	.58	.43	.37
	6	H3AAT-10106-☐4-ND	.59	.44	.38
	8	H3AAT-10108-☐4-ND	.60	.44	.38
	10	H3AAT-10110-☐4-ND	.61	.45	.39
	12	H3AAT-10112-☐4-ND	.62	.46	.40
Fig. 4 (Socket Single End)	2	H3BXT-10102-☐4-ND	.52	.39	.33
	3	H3BXT-10103-☐4-ND	.53	.39	.34
	4	H3BXT-10104-☐4-ND	.53	.39	.34
	5	H3BXT-10105-☐4-ND	.54	.40	.34
	6	H3BXT-10106-☐4-ND	.54	.40	.35
	8	H3BXT-10108-☐4-ND	.55	.41	.35
	10	H3BXT-10110-☐4-ND	.56	.42	.36
	12	H3BXT-10112-☐4-ND	.57	.42	.37
Fig. 5 (Pin Single End)	2	H3AXT-10102-☐4-ND	.53	.40	.34
	3	H3AXT-10103-☐4-ND	.54	.40	.34
	4	H3AXT-10104-☐4-ND	.54	.40	.35
	5	H3AXT-10105-☐4-ND	.55	.41	.35
	6	H3AXT-10106-☐4-ND	.55	.41	.35
	8	H3AXT-10108-☐4-ND	.56	.42	.36
	10	H3AXT-10110-☐4-ND	.57	.42	.37
	12	H3AXT-10112-☐4-ND	.58	.43	.37
26 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBT-10102-☐6-ND	.55	.40	.35
	3	H3BBT-10103-☐6-ND	.55	.41	.35
	4	H3BBT-10104-☐6-ND	.56	.41	.36
	5	H3BBT-10105-☐6-ND	.56	.41	.36
	6	H3BBT-10106-☐6-ND	.57	.42	.36
	8	H3BBT-10108-☐6-ND	.58	.43	.37
	10	H3BBT-10110-☐6-ND	.58	.43	.37
	12	H3BBT-10112-☐6-ND	.59	.44	.38
Fig. 2 (Pin to Socket)	2	H3ABT-10102-☐6-ND	.56	.41	.36
	3	H3ABT-10103-☐6-ND	.56	.42	.36
	4	H3ABT-10104-☐6-ND	.57	.42	.36
	5	H3ABT-10105-☐6-ND	.57	.42	.37
	6	H3ABT-10106-☐6-ND	.58	.43	.37
	8	H3ABT-10108-☐6-ND	.59	.43	.37
	10	H3ABT-10110-☐6-ND	.60	.44	.38
	12	H3ABT-10112-☐6-ND	.60	.45	.39
Fig. 3 (Pin to Pin)	2	H3AAT-10102-☐6-ND	.57	.42	.36
	3	H3AAT-10103-☐6-ND	.57	.42	.37
	4	H3AAT-10104-☐6-ND	.58	.43	.37
	5	H3AAT-10105-☐6-ND	.58	.43	.37
	6	H3AAT-10106-☐6-ND	.59	.43	.38
	8	H3AAT-10108-☐6-ND	.60	.44	.38
	10	H3AAT-10110-☐6-ND	.61	.45	.39
	12	H3AAT-10112-☐6-ND	.62	.46	.39
Fig. 4 (Socket Single End)	2	H3BXT-10102-☐6-ND	.52	.39	.33
	3	H3BXT-10103-☐6-ND	.53	.39	.34
	4	H3BXT-10104-☐6-ND	.53	.39	.34
	5	H3BXT-10105-☐6-ND	.54	.40	.34
	6	H3BXT-10106-☐6-ND	.54	.40	.35
	8	H3BXT-10108-☐6-ND	.55	.41	.35
	10	H3BXT-10110-☐6-ND	.56	.41	.36
	12	H3BXT-10112-☐6-ND	.57	.42	.36
Fig. 5 (Pin Single End)	2	H3AXT-10102-☐6-ND	.53	.39	.34
	3	H3AXT-10103-☐6-ND	.54	.40	.34
	4	H3AXT-10104-☐6-ND	.54	.40	.35
	5	H3AXT-10105-☐6-ND	.55	.41	.35
	6	H3AXT-10106-☐6-ND	.55	.41	.35
	8	H3AXT-10108-☐6-ND	.56	.42	.36
	10	H3AXT-10110-☐6-ND	.57	.42	.37
	12	H3AXT-10112-☐6-ND	.58	.43	.37

Fig.	Cable Length (In.)	Digi-Key Part No.	Price Each		
			10	100	250
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBT-10102-☐8-ND	.55	.41	.35
	3	H3BBT-10103-☐8-ND	.55	.41	.35
	4	H3BBT-10104-☐8-ND	.56	.41	.36
	5	H3BBT-10105-☐8-ND	.56	.42	.36
	6	H3BBT-10106-☐8-ND	.57	.42	.36
	8	H3BBT-10108-☐8-ND	.58	.43	.37
	10	H3BBT-10110-☐8-ND	.59	.44	.38
	12	H3BBT-10112-☐8-ND	.60	.45	.38
Fig. 2 (Pin to Socket)	2	H3ABT-10102-☐8-ND	.56	.41	.36
	3	H3ABT-10103-☐8-ND	.56	.42	.36
	4	H3ABT-10104-☐8-ND	.57	.42	.36
	5	H3ABT-10105-☐8-ND	.58	.43	.37
	6	H3ABT-10106-☐8-ND	.58	.43	.37
	8	H3ABT-10108-☐8-ND	.59	.44	.38
	10	H3ABT-10110-☐8-ND	.60	.45	.38
	12	H3ABT-10112-☐8-ND	.61	.45	.39
Fig. 3 (Pin to Pin)	2	H3AAT-10102-☐8-ND	.57	.42	.36
	3	H3AAT-10103-☐8-ND	.58	.43	.37
	4	H3AAT-10104-☐8-ND	.58	.43	.37
	5	H3AAT-10105-☐8-ND	.59	.43	.37
	6	H3AAT-10106-☐8-ND	.59	.44	.38
	8	H3AAT-10108-☐8-ND	.60	.45	.38
	10	H3AAT-10110-☐8-ND	.61	.45	.39
	12	H3AAT-10112-☐8-ND	.62	.46	.40
Fig. 4 (Socket Single End)	2	H3BXT-10102-☐8-ND	.52	.39	.34
	3	H3BXT-10103-☐8-ND	.53	.39	.34
	4	H3BXT-10104-☐8-ND	.53	.40	.34
	5	H3BXT-10105-☐8-ND	.54	.40	.35
	6	H3BXT-10106-☐8-ND	.55	.40	.35
	8	H3BXT-10108-☐8-ND	.56	.41	.36
	10	H3BXT-10110-☐8-ND	.57	.42	.36
	12	H3BXT-10112-☐8-ND	.58	.43	.37
Fig. 5 (Pin Single End)	2	H3AXT-10102-☐8-ND	.53	.40	.34
	3	H3AXT-10103-☐8-ND	.54	.40	.35
	4	H3AXT-10104-☐8-ND	.55	.40	.35
	5	H3AXT-10105-☐8-ND	.55	.41	.35
	6	H3AXT-10106-☐8-ND	.56	.41	.36
	8	H3AXT-10108-☐8-ND	.57	.42	.36
	10	H3AXT-10110-☐8-ND	.58	.43	.37
	12	H3AXT-10112-☐8-ND	.59	.44	.38
DF11 - 15µ GOLD PLATED CONTACTS					
24 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBG-10102-☐4-ND	.69	.51	.44
	3	H3BBG-10103-☐4-ND	.70	.52	.45
	4	H3BBG-10104-☐4-ND	.70	.52	.45
	5	H3BBG-10105-☐4-ND	.71	.52	.45
	6	H3BBG-10106-☐4-ND	.71	.53	.46
	8	H3BBG-10108-☐4-ND	.72	.54	.46
	10	H3BBG-10110-☐4-ND	.73	.54	.47
	12	H3BBG-10112-☐4-ND	.75	.55	.48
Fig. 2 (Pin to Socket)	2	H3ABG-10102-☐4-ND	.71	.53	.46
	3	H3ABG-10103-☐4-ND	.72	.53	.46
	4	H3ABG-10104-☐4-ND	.72	.54	.46
	5	H3ABG-10105-☐4-ND	.73	.54	.47
	6	H3ABG-10106-☐4-ND	.73	.54	.47
	8	H3ABG-10108-☐4-ND	.74	.55	.48
	10	H3ABG-10110-☐4-ND	.75	.56	.48
	12	H3ABG-10112-☐4-ND	.76	.56	.49
Fig. 3 (Pin to Pin)	2	H3AAG-10102-☐4-ND	.73	.54	.47
	3	H3AAG-10103-☐4-ND	.74	.55	.47
	4	H3AAG-10104-☐4-ND	.74	.55	.47
	5	H3AAG-10105-☐4-ND	.75	.55	.48
	6	H3AAG-10106-☐4-ND	.75	.56	.48
	8	H3AAG-10108-☐4-ND	.76	.56	.49
	10	H3AAG-10110-☐4-ND	.77	.57	.49
	12	H3AAG-10112-☐4-ND	.78	.58	.50
Fig. 4 (Socket Single End)	2	H3BXG-10102-☐4-ND	.60	.44	.38
	3	H3BXG-10103-☐4-ND	.60	.45	.38
	4	H3BXG-10104-☐4-ND	.61	.45	.39
	5	H3BXG-10105-☐4-ND	.61	.45	.39
	6	H3BXG-10106-☐4-ND	.62	.46	.39
	8	H3BXG-10108-☐4-ND	.63	.46	.40
	10	H3BXG-10110-☐4-ND	.64	.47	.41
	12	H3BXG-10112-☐4-ND	.65	.48	.41
Fig. 5 (Pin Single End)	2	H3AXG-10102-☐4-ND	.62	.46	.39
	3	H3AXG-10103-☐4-ND	.62	.46	.40
	4	H3AXG-10104-☐4-ND	.63	.46	.40
	5	H3AXG-10105-☐4-ND	.63	.47	.40
	6	H3AXG-10106-☐4-ND	.64	.47	.41
	8	H3AXG-10108-☐4-ND	.65	.48	.41
	10	H3AXG-10110-☐4-ND	.66	.49	.42
	12	H3AXG-10112-☐4-ND	.67	.49	.43

(Continued)

HRS HIROSE ELECTRIC CO.,LTD. DF3, DF7, DF11, DF13, DF22 Interconnect Wire (housing available) *(Cont.)*

* For □ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (in.)	Digi-Key Part No.	Price Each 10	100	250
26 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBG-10102-□6-ND	.69	.51	.44
	3	H3BBG-10103-□6-ND	.70	.52	.45
	4	H3BBG-10104-□6-ND	.70	.52	.45
	5	H3BBG-10105-□6-ND	.71	.52	.45
	6	H3BBG-10106-□6-ND	.71	.53	.46
	8	H3BBG-10108-□6-ND	.72	.53	.46
	10	H3BBG-10110-□6-ND	.73	.54	.47
	12	H3BBG-10112-□6-ND	.74	.55	.47
Fig. 2 (Pin to Socket)	2	H3ABG-10102-□6-ND	.71	.53	.46
	3	H3ABG-10103-□6-ND	.72	.53	.46
	4	H3ABG-10104-□6-ND	.72	.53	.46
	5	H3ABG-10105-□6-ND	.73	.54	.46
	6	H3ABG-10106-□6-ND	.73	.54	.47
	8	H3ABG-10108-□6-ND	.74	.55	.47
	10	H3ABG-10110-□6-ND	.75	.56	.48
	12	H3ABG-10112-□6-ND	.76	.56	.49
Fig. 3 (Pin to Pin)	2	H3AAG-10102-□6-ND	.73	.54	.47
	3	H3AAG-10103-□6-ND	.74	.54	.47
	4	H3AAG-10104-□6-ND	.74	.55	.47
	5	H3AAG-10105-□6-ND	.75	.55	.48
	6	H3AAG-10106-□6-ND	.75	.56	.48
	8	H3AAG-10108-□6-ND	.76	.56	.49
	10	H3AAG-10110-□6-ND	.77	.57	.49
	12	H3AAG-10112-□6-ND	.78	.58	.50
Fig. 4 (Socket Single End)	2	H3BXG-10102-□6-ND	.60	.44	.38
	3	H3BXG-10103-□6-ND	.60	.44	.38
	4	H3BXG-10104-□6-ND	.61	.45	.39
	5	H3BXG-10105-□6-ND	.61	.45	.39
	6	H3BXG-10106-□6-ND	.62	.46	.39
	8	H3BXG-10108-□6-ND	.62	.46	.40
	10	H3BXG-10110-□6-ND	.63	.47	.41
	12	H3BXG-10112-□6-ND	.64	.48	.41
Fig. 5 (Pin Single End)	2	H3AXG-10102-□6-ND	.62	.46	.39
	3	H3AXG-10103-□6-ND	.62	.46	.40
	4	H3AXG-10104-□6-ND	.63	.46	.40
	5	H3AXG-10105-□6-ND	.63	.47	.40
	6	H3AXG-10106-□6-ND	.63	.47	.41
	8	H3AXG-10108-□6-ND	.64	.48	.41
	10	H3AXG-10110-□6-ND	.65	.48	.42
	12	H3AXG-10112-□6-ND	.66	.49	.42
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBG-10102-□8-ND	.70	.51	.44
	3	H3BBG-10103-□8-ND	.70	.52	.45
	4	H3BBG-10104-□8-ND	.71	.52	.45
	5	H3BBG-10105-□8-ND	.71	.53	.45
	6	H3BBG-10106-□8-ND	.72	.53	.46
	8	H3BBG-10108-□8-ND	.73	.54	.46
	10	H3BBG-10110-□8-ND	.74	.55	.47
	12	H3BBG-10112-□8-ND	.75	.55	.48
Fig. 2 (Pin to Socket)	2	H3ABG-10102-□8-ND	.71	.53	.46
	3	H3ABG-10103-□8-ND	.72	.53	.46
	4	H3ABG-10104-□8-ND	.73	.54	.46
	5	H3ABG-10105-□8-ND	.73	.54	.47
	6	H3ABG-10106-□8-ND	.74	.54	.47
	8	H3ABG-10108-□8-ND	.75	.55	.48
	10	H3ABG-10110-□8-ND	.76	.56	.48
	12	H3ABG-10112-□8-ND	.77	.57	.49
Fig. 3 (Pin to Pin)	2	H3AAG-10102-□8-ND	.73	.54	.47
	3	H3AAG-10103-□8-ND	.74	.55	.47
	4	H3AAG-10104-□8-ND	.74	.55	.48
	5	H3AAG-10105-□8-ND	.75	.55	.48
	6	H3AAG-10106-□8-ND	.76	.56	.48
	8	H3AAG-10108-□8-ND	.77	.57	.49
	10	H3AAG-10110-□8-ND	.78	.57	.50
	12	H3AAG-10112-□8-ND	.79	.58	.50
Fig. 4 (Socket Single End)	2	H3BXG-10102-□8-ND	.60	.44	.38
	3	H3BXG-10103-□8-ND	.60	.45	.39
	4	H3BXG-10104-□8-ND	.61	.45	.39
	5	H3BXG-10105-□8-ND	.61	.45	.39
	6	H3BXG-10106-□8-ND	.62	.46	.40
	8	H3BXG-10108-□8-ND	.63	.47	.40
	10	H3BXG-10110-□8-ND	.64	.47	.41
	12	H3BXG-10112-□8-ND	.65	.48	.42
Fig. 5 (Pin Single End)	2	H3AXG-10102-□8-ND	.62	.46	.39
	3	H3AXG-10103-□8-ND	.62	.46	.40
	4	H3AXG-10104-□8-ND	.63	.46	.40
	5	H3AXG-10105-□8-ND	.63	.47	.40
	6	H3AXG-10106-□8-ND	.64	.47	.41
	8	H3AXG-10108-□8-ND	.65	.48	.41
	10	H3AXG-10110-□8-ND	.66	.49	.42
	12	H3AXG-10112-□8-ND	.67	.50	.43
DF7- TIN PLATED CONTACTS					
16 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H5BBT-10102-□7-ND	.63	.47	.40
	3	H5BBT-10103-□7-ND	.64	.47	.41
	4	H5BBT-10104-□7-ND	.64	.48	.41
	5	H5BBT-10105-□7-ND	.65	.48	.42
	6	H5BBT-10106-□7-ND	.66	.49	.42
	8	H5BBT-10108-□7-ND	.67	.49	.43
	10	H5BBT-10110-□7-ND	.68	.50	.44
	12	H5BBT-10112-□7-ND	.70	.51	.44
Fig. 4 (Socket Single End)	2	H5BXT-10102-□7-ND	.57	.42	.36
	3	H5BXT-10103-□7-ND	.57	.42	.37
	4	H5BXT-10104-□7-ND	.58	.43	.37
	5	H5BXT-10105-□7-ND	.59	.43	.37
	6	H5BXT-10106-□7-ND	.59	.44	.38
	8	H5BXT-10108-□7-ND	.61	.45	.39
	10	H5BXT-10110-□7-ND	.62	.46	.40
	12	H5BXT-10112-□7-ND	.63	.47	.40
18 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H5BBT-10102-□9-ND	.63	.47	.40
	3	H5BBT-10103-□9-ND	.64	.47	.41
	4	H5BBT-10104-□9-ND	.64	.48	.41
	5	H5BBT-10105-□9-ND	.65	.48	.42
	6	H5BBT-10106-□9-ND	.66	.49	.42
	8	H5BBT-10108-□9-ND	.67	.49	.43
	10	H5BBT-10110-□9-ND	.68	.50	.44
	12	H5BBT-10112-□9-ND	.70	.51	.44
Fig. 4 (Socket Single End)	2	H5BXT-10102-□9-ND	.57	.42	.36
	3	H5BXT-10103-□9-ND	.57	.42	.37
	4	H5BXT-10104-□9-ND	.58	.43	.37
	5	H5BXT-10105-□9-ND	.59	.43	.37
	6	H5BXT-10106-□9-ND	.59	.44	.38
	8	H5BXT-10108-□9-ND	.61	.45	.39
	10	H5BXT-10110-□9-ND	.62	.46	.40
	12	H5BXT-10112-□9-ND	.63	.47	.40
20 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H5BBT-10102-□0-ND	.63	.47	.40
	3	H5BBT-10103-□0-ND	.64	.47	.41
	4	H5BBT-10104-□0-ND	.64	.48	.41
	5	H5BBT-10105-□0-ND	.65	.48	.42
	6	H5BBT-10106-□0-ND	.66	.49	.42
	8	H5BBT-10108-□0-ND	.67	.49	.43
	10	H5BBT-10110-□0-ND	.68	.50	.44
	12	H5BBT-10112-□0-ND	.70	.51	.44
Fig. 4 (Socket Single End)	2	H5BXT-10102-□0-ND	.57	.42	.36
	3	H5BXT-10103-□0-ND	.57	.42	.37
	4	H5BXT-10104-□0-ND	.58	.43	.37
	5	H5BXT-10105-□0-ND	.59	.43	.37
	6	H5BXT-10106-□0-ND	.59	.44	.38
	8	H5BXT-10108-□0-ND	.61	.45	.39
	10	H5BXT-10110-□0-ND	.62	.46	.40
	12	H5BXT-10112-□0-ND	.63	.47	.40
22 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H5BBT-10102-□2-ND	.63	.47	.40
	3	H5BBT-10103-□2-ND	.64	.47	.41
	4	H5BBT-10104-□2-ND	.64	.48	.41
	5	H5BBT-10105-□2-ND	.65	.48	.42
	6	H5BBT-10106-□2-ND	.66	.49	.42
	8	H5BBT-10108-□2-ND	.67	.49	.43
	10	H5BBT-10110-□2-ND	.68	.50	.44
	12	H5BBT-10112-□2-ND	.70	.51	.44
Fig. 4 (Socket Single End)	2	H5BXT-10102-□2-ND	.57	.42	.36
	3	H5BXT-10103-□2-ND	.57	.42	.37
	4	H5BXT-10104-□2-ND	.58	.43	.37
	5	H5BXT-10105-□2-ND	.59	.43	.37
	6	H5BXT-10106-□2-ND	.59	.44	.38
	8	H5BXT-10108-□2-ND	.61	.45	.39
	10	H5BXT-10110-□2-ND	.62	.46	.40
	12	H5BXT-10112-□2-ND	.63	.47	.40
DF13 - TIN PLATED CONTACTS					
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H4BBT-10102-□8-ND	.57	.42	.36
	3	H4BBT-10103-□8-ND	.57	.42	.37
	4	H4BBT-10104-□8-ND	.58	.43	.37
	5	H4BBT-10105-□8-ND	.59	.43	.38
	6	H4BBT-10106-□8-ND	.59	.44	.38
	8	H4BBT-10108-□8-ND	.61	.45	.39
	10	H4BBT-10110-□8-ND	.62	.46	.40
	12	H4BBT-10112-□8-ND	.63	.47	.41
Fig. 4 (Socket Single End)	2	H4BXT-10102-□8-ND	.54	.40	.34
	3	H4BXT-10103-□8-ND	.54	.40	.35
	4	H4BXT-10104-□8-ND	.55	.41	.35
	5	H4BXT-10105-□8-ND	.56	.41	.36
	6	H4BXT-10106-□8-ND	.56	.42	.36
	8	H4BXT-10108-□8-ND	.57	.43	.37
	10	H4BXT-10110-□8-ND	.59	.44	.38
	12	H4BXT-10112-□8-ND	.60	.44	.38
30 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H4BBT-10102-□1-ND	.57	.42	.36
	3	H4BBT-10103-□1-ND	.57	.42	.37
	4	H4BBT-10104-□1-ND	.58	.43	.37
	5	H4BBT-10105-□1-ND	.59	.43	.38
	6	H4BBT-10106-□1-ND	.59	.44	.38
	8	H4BBT-10108-□1-ND	.61	.45	.39
	10	H4BBT-10110-□1-ND	.62	.46	.40
	12	H4BBT-10112-□1-ND	.63	.47	.41
Fig. 4 (Socket Single End)	2	H4BXT-10102-□1-ND	.54	.40	.34
	3	H4BXT-10103-□1-ND	.54	.40	.35
	4	H4BXT-10104-□1-ND	.55	.41	.35
	5	H4BXT-10105-□1-ND	.56	.41	.36
	6	H4BXT-10106-□1-ND	.56	.42	.36
	8	H4BXT-10108-□1-ND	.57	.43	.37
	10	H4BXT-10110-□1-ND	.59	.44	.38
	12	H4BXT-10112-□1-ND	.60	.44	.38
DF13 - GOLD PLATED CONTACTS					
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H4BBG-10102-□8-ND	.60	.45	.39
	3	H4BBG-10103-□8-ND	.61	.45	.39
	4	H4BBG-10104-□8-ND	.62	.46	.39
	5	H4BBG-10105-□8-ND	.62	.46	.40
	6	H4BBG-10106-□8-ND	.63	.47	.40
	8	H4BBG-10108-□8-ND	.64	.48	.41
	10	H4BBG-10110-□8-ND	.66	.49	.42
	12	H4BBG-10112-□8-ND	.67	.50	.43
Fig. 4 (Socket Single End)	2	H4BXG-10102-□8-ND	.55	.41	.35
	3	H4BXG-10103-□8-ND	.56	.41	.36
	4	H4BXG-10104-□8-ND	.57	.42	.36
	5	H4BXG-10105-□8-ND	.57	.42	.37
	6	H4BXG-10106-□8-ND	.58	.43	.37
	8	H4BXG-10108-□8-ND	.59	.44	.38
	10	H4BXG-10110-□8-ND	.61	.45	.39
	12	H4BXG-10112-□8-ND	.62	.46	.40
30 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H4BBG-10102-□1-ND	.60	.45	.39
	3	H4BBG-10103-□1-ND	.61	.45	.39
	4	H4BBG-10104-□1-ND	.62	.46	.39
	5	H4BBG-10105-□1-ND	.62	.46	.40
	6	H4BBG-10106-□1-ND	.63	.47	.40
	8	H4BBG-10108-□1-ND	.64	.48	.41
	10	H4BBG-10110-□1-ND	.66	.49	.42
	12	H4BBG-10112-□1-ND	.67	.50	.43
Fig. 4 (Socket Single End)	2	H4BXG-10102-□1-ND	.55	.41	.35
	3	H4BXG-10103-□1-ND	.56	.41	.36
	4	H4BXG-10104-□1-ND	.57	.42	.36
	5	H4BXG-10105-□1-ND	.57	.42	.37
	6	H4BXG-10106-□1-ND	.58	.43	.37
	8	H4BXG-10108-□1-ND	.59	.44	.38
	10	H4BXG-10110-□1-ND	.61	.45	.39
	12	H4BXG-10112-□1-ND	.62	.46	.40
DF22 - TIN PLATED CONTACTS					
16 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H6BBT-10102-□7-ND	.72	.53	.46
	3	H6BBT-10103-□7-ND	.73	.54	.47
	4	H6BBT-10104-□7-ND	.73	.54	.47
	5	H6BBT-10105-□7-ND	.74	.55	.47
	6	H6BBT-10106-□7-ND	.75	.55	.48
	8	H6BBT-10108-□7-ND	.76	.56	.49
	10	H6BBT-10110-□7-ND	.77	.57	.49
	12	H6BBT-10112-□7-ND	.79	.58	.50
Fig. 4 (Socket Single End)	2	H6BXT-10102-□7-ND	.61	.45	.39
	3	H6BXT-10103-□7-ND	.62	.46	.40
	4	H6BXT-10104-□7-ND	.63	.46	.40
	5	H6BXT-10105-□7-ND	.63	.47	.40
	6	H6BXT-10106-□7-ND	.64	.47	.41
	8	H6BXT-10108-□7-ND	.65	.48	.42
	10	H6BXT-10110-□7-ND	.67	.49	.43
	12	H6BXT-10112-□7-ND	.68	.50	.43

NEW! 1.5mm Connectors

Features: • 2-15 circuits • Standard with center polarizing ramp • Lead in chamfer facilitates mating

Electrical: • Voltage: 250V • Current: 2.0A • Contact Resistance: 40mΩ max. • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ min.

Physical: • Operating Temperature: -25 to 85°C • Housing: Glass filled 6/6 nylon, UL 94V-0 • Headers: Color beige glass filled 4/6 nylon, UL 94V-0 • Contact: Brass Alloy • Plating: 2.54µm Tin/Lead

Fig. 1

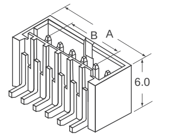


Fig. 2

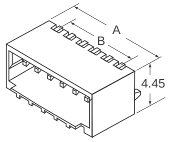
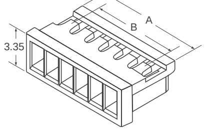


Fig. 3



Cir- cuits	Dim. (mm) A	 B	Digi-Key Part No.	Cut Tape Price Each 1	 10	 100	Digi-Key Part No.	T & R Pricing 1,000	Molex Part No.
Fig. 1 Header - Vertical									
2	4.30	1.50	WM2034CT-ND	.87	.77	.52	WM2034TR-ND	358.94	87437-0233
3	5.80	3.00	WM2035CT-ND	1.01	.89	.60	WM2035TR-ND	414.79	87437-0333
4	7.30	4.50	WM2036CT-ND	1.15	1.02	.68	WM2036TR-ND	473.22	87437-0433
5	8.80	6.00	WM2037CT-ND	1.29	1.14	.76	WM2037TR-ND	529.24	87437-0533
6	10.30	7.50	WM2038CT-ND	1.43	1.26	.84	WM2038TR-ND	587.67	87437-0633
7	11.80	9.00	WM2039CT-ND	1.56	1.38	.92	WM2039TR-ND	643.49	87437-0733
8	13.30	10.50	WM2040CT-ND	1.71	1.51	1.01	WM2040TR-ND	704.71	87437-0833
9	14.80	12.00	WM2041CT-ND	1.83	1.62	1.08	WM2041TR-ND	752.57	87437-0933
10	16.30	13.50	WM2042CT-ND	1.95	1.73	1.15	WM2042TR-ND	803.22	87437-1033
11	17.80	15.00	WM2043CT-ND	2.07	1.83	1.22	WM2043TR-ND	850.89	87437-1133
12	19.30	16.50	WM2044CT-ND	2.19	1.94	1.29	WM2044TR-ND	901.53	87437-1233
13	20.80	18.00	WM2045CT-ND	2.33	2.06	1.38	WM2045TR-ND	961.08	87437-1333
14	22.30	19.50	WM2046CT-ND	2.43	2.15	1.43	WM2046TR-ND	999.85	87437-1433
15	23.80	21.00	WM2047CT-ND	2.55	2.26	1.51	WM2047TR-ND	1050.30	87437-1533
Fig. 2 Header - Right Angle									
2	4.30	1.50	WM2048CT-ND	.85	.75	.50	WM2048TR-ND	348.37	87438-0233
3	5.80	3.00	WM2049CT-ND	1.07	.94	.63	WM2049TR-ND	438.71	87438-0333
4	7.30	4.50	WM2050CT-ND	1.19	1.06	.71	WM2050TR-ND	491.94	87438-0433
5	8.80	6.00	WM2051CT-ND	1.22	1.08	.72	WM2051TR-ND	502.90	87438-0533
6	10.30	7.50	WM2052CT-ND	1.40	1.24	.83	WM2052TR-ND	576.91	87438-0633
7	11.80	9.00	WM2053CT-ND	1.65	1.46	.98	WM2053TR-ND	680.79	87438-0733
8	13.30	10.50	WM2054CT-ND	1.78	1.57	1.05	WM2054TR-ND	731.24	87438-0833
9	14.80	12.00	WM2055CT-ND	1.81	1.61	1.07	WM2055TR-ND	747.20	87438-0933
10	16.30	13.50	WM2056CT-ND	1.97	1.74	1.16	WM2056TR-ND	811.56	87438-1033
11	17.80	15.00	WM2057CT-ND	2.13	1.88	1.25	WM2057TR-ND	875.00	87438-1133
12	19.30	16.50	WM2058CT-ND	2.28	2.02	1.35	WM2058TR-ND	938.82	87438-1233
13	20.80	18.00	WM2059CT-ND	2.43	2.15	1.44	WM2059TR-ND	1002.63	87438-1333
14	22.30	19.50	WM2060CT-ND	2.59	2.29	1.53	WM2060TR-ND	1066.43	87438-1433
15	23.80	21.00	WM2061CT-ND	2.74	2.43	1.62	WM2061TR-ND	1130.26	87438-1533

Cir- cuits	Dimensions (mm) A	 B	Digi-Key Part No.	Price Each 1	 10	 100	Molex Part No.
Fig. 3 Housing							
2	4.10	1.50	WM2086-ND	.26	.23	.16	87439-0200
3	5.60	3.00	WM2087-ND	.28	.25	.17	87439-0300
4	7.10	4.50	WM2088-ND	.30	.27	.18	87439-0400
5	8.60	6.00	WM2089-ND	.33	.30	.20	87439-0500
6	10.10	7.50	WM2090-ND	.36	.32	.21	87439-0600
7	11.60	9.00	WM2091-ND	.39	.35	.24	87439-0700
8	13.10	10.50	WM2092-ND	.41	.36	.24	87439-0800
9	14.60	12.00	WM2093-ND	.42	.37	.25	87439-0900
10	16.10	13.50	WM2094-ND	.43	.38	.26	87439-1000
11	17.60	15.00	WM2095-ND	.44	.39	.26	87439-1100
12	19.10	16.50	WM2096-ND	.47	.42	.28	87439-1200
13	20.60	18.00	WM2097-ND	.47	.42	.28	87439-1300
14	22.10	19.50	WM2098-ND	.48	.43	.29	87439-1400
15	23.60	21.00	WM2099-ND	.50	.44	.30	87439-1500

Description	Digi-Key Part No	Pricing 10	 100	Molex Part No.
Crimp Terminal 24-28 AWG	WM1112-ND	.50	4.04	87421-0000
Hand Crimp Tool	WM9968-ND	169.37 each		63811-3600
Manual Wire Stripper	WM9969-ND	71.38 each		63817-0000
Blade Replacement Straight	WM9970-ND	34.13 each		63817-0070
Blade Replacement V	WM9971-ND	34.13 each		63817-0071

2mm Sherlock™ Connectors

Features:

• Positive locking provides secure mating retention • Four-wall shroud with guide plate protects pins and facilitates mating • Compact low-profile design for space savings • Polarizing end walls prevent mismating

Electrical:

• Voltage: 125V • Current: 2.0A • Contact Resistance: 20mΩ max. • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ min.

Physical:

• Housing: Polyamide, UL 94V-0 • Housing Contact: Brass • Plating: Tin/Lead • Operating Temperature: -40°C to +105°C • UL File No.: E29179 • CSA File No.: LR19980

Fig. 1

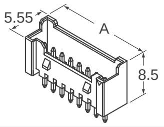


Fig. 2

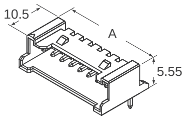


Fig. 3

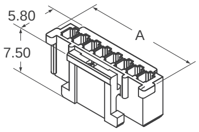


Fig. 4

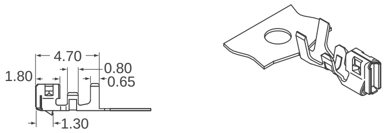


Fig.	Cir- cuits	Dimension (mm) A	Digi-Key Part No.	Price Each 1	 10	 100	Molex Part No.
Header - Vertical							
1	2	7.70	WM5992-ND	.37	.34	.23	35362-0210
	3	9.70	WM5993-ND	.45	.40	.27	35362-0310
	4	10.30	WM5994-ND	.50	.45	.30	35362-0410
	5	12.30	WM5995-ND	.60	.53	.36	35362-0510
	6	14.30	WM5996-ND	.65	.58	.39	35362-0610
	7	16.30	WM5997-ND	.72	.64	.43	35362-0710
	8	18.30	WM5998-ND	.83	.74	.50	35362-0810
	9	20.30	WM5999-ND	.90	.80	.53	35362-0910
	10	22.30	WM6000-ND	.98	.87	.58	35362-1010
	11	24.30	WM6001-ND	1.03	.91	.61	35362-1110
	12	26.30	WM6037-ND	1.08	.96	.64	35362-1210
Header - Right Angle							
2	2	7.70	WM6038-ND	.47	.42	.28	35363-0210
	3	9.70	WM6039-ND	.52	.46	.31	35363-0310
	4	10.30	WM6040-ND	.56	.49	.33	35363-0410
	5	12.30	WM6041-ND	.65	.58	.39	35363-0510
	6	14.30	WM6042-ND	.70	.62	.42	35363-0610
	7	16.30	WM6043-ND	.79	.70	.47	35363-0710
	8	18.30	WM6044-ND	.89	.79	.53	35363-0810
2	9	20.30	WM6045-ND	.94	.84	.56	35363-0910
	10	22.30	WM6046-ND	1.03	.91	.61	35363-1010
	11	24.30	WM6047-ND	1.09	.97	.65	35363-1110
	12	26.30	WM6048-ND	1.14	1.01	.67	35363-1210
Crimp Housing							
3	2	7.20	WM5981-ND	.23	.20	.14	35507-0200
	3	9.20	WM5982-ND	.25	.23	.15	35507-0300
	4	10.30	WM5983-ND	.28	.25	.17	35507-0400
	5	12.30	WM5984-ND	.30	.27	.18	35507-0500
	6	14.30	WM5985-ND	.32	.29	.19	35507-0600
	7	16.30	WM5986-ND	.35	.31	.21	35507-0700
	8	18.30	WM5987-ND	.37	.34	.23	35507-0800
	9	20.30	WM5988-ND	.39	.35	.23	35507-0900
	10	22.30	WM5989-ND	.40	.36	.24	35507-1000
	11	24.30	WM5990-ND	.41	.37	.25	35507-1100
	12	26.30	WM5991-ND	.43	.39	.26	35507-1200
4	Crimp Terminal, 24-30 AWG Contact: Phosphor Bronze Plating: Tin		WM6050-ND	—	.07	.06	50212-8100

molex Waldom ELECTRONICS

2mm Milli-Grid™ Connectors

HEADERS: Electrical: • Current: 2.0A • Dielectric Withstanding Voltage: 500V (Shrouded Vertical, SMT, and Right Angle: 1000V) • Insulation Resistance: 1000MΩ min. **Physical:** • Housing: 4/6 nylon, UL 94V-0 (Right Angle: Black glass-filled polyester, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -55 to +105°C

RECEPTACLE: Electrical: • Voltage: 125V • Current: 1.0A • Contact Resistance: 25mΩ max. (Side Entry, Side Entry SMT, and Top/Bottom Entry: 15mΩ max.) • Dielectric Withstanding Voltage: 500V AC (Top/Bottom Entry: 1000V) • Insulation Resistance: 1000M Ω min. **Physical:** • Housing: Black glass-filled polyester, UL 94V-0 (Top/Bottom Entry: Black LCP, UL 94V-O, Side Entry and Side Entry SMT: Black nylon, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -55 to +105°C

CRIMP TERMINAL: Electrical: • Voltage: 125V • Current: **26AWG:** 1.5, **28AWG:** 1.0, and **30AWG:** 0.5 • Contact Resistance: 40mΩ max. **Physical:** • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -40 to +105°C • Wire Range: 26-30AWG • Insulation Range: 1.40mm diameter max.

CRIMP HOUSING: Physical: • Housing: Black glass-filled polyester, UL 94V-0 • Temperature: -55 to +105°C

Fig. 1 – Vertical

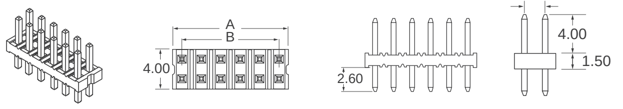


Fig. 4 – Shrouded Right Angle

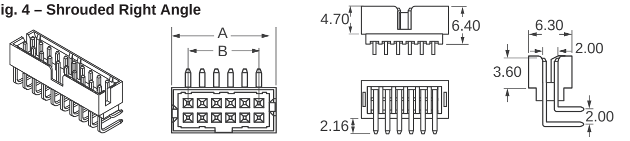


Fig. 2 – Right Angle

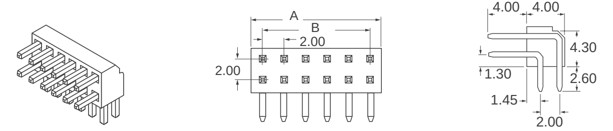


Fig. 5 – Shrouded SMT

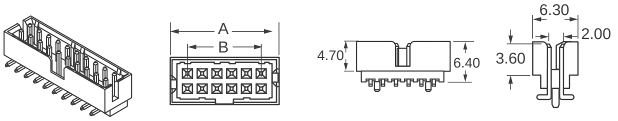


Fig. 3 – Shrouded Vertical

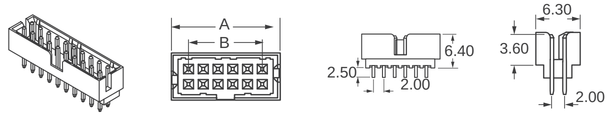


Fig. 6– Vertical SMT

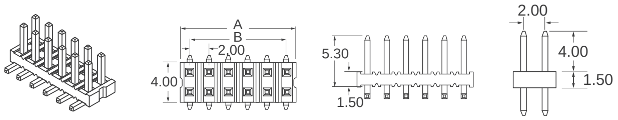


Fig.	Cir-cuits	Dimension (mm)		Digi-Key	Pricing			Molex
		A	B	Part No.	1	10	100	Part No.
				Headers — Vertical				
1	4	3.90	2.00	WM18201-ND	.60	5.29	35.27	87089-0416
	6	5.90	4.00	WM18202-ND	.81	7.12	47.46	87089-0616
	8	7.90	6.00	WM18203-ND	.93	8.17	54.46	87089-0816
	10	9.90	8.00	WM18204-ND	1.03	9.12	60.82	87089-1016
	12	11.90	10.00	WM18205-ND	1.25	11.02	73.46	87089-1216
	14	13.90	12.00	WM18206-ND	1.30	11.47	76.48	87089-1416
	16	15.90	14.00	WM18207-ND	1.38	12.22	81.44	87089-1616
	18	17.90	16.00	WM18208-ND	1.56	13.76	91.72	87089-1816
	20	19.90	18.00	WM18209-ND	1.84	16.20	107.99	87089-2016
	22	21.90	20.00	WM18210-ND	2.03	17.87	119.15	87089-2216
	24	23.90	22.00	WM18211-ND	2.09	18.46	123.09	87089-2416
	26	25.90	24.00	WM18212-ND	2.08	18.38	122.54	87089-2616
	28	27.90	26.00	WM18213-ND	2.56	22.59	150.63	87089-2816
	30	29.90	28.00	WM18214-ND	2.61	23.06	153.73	87089-3016
	32	31.90	30.00	WM18215-ND	2.68	23.64	157.57	87089-3216
	34	33.90	32.00	WM18216-ND	2.72	24.04	160.27	87089-3416
	36	35.90	34.00	WM18217-ND	2.88	25.40	169.31	87089-3616
	38	37.90	36.00	WM18218-ND	3.04	26.83	178.85	87089-3816
	40	39.90	38.00	WM18219-ND	3.20	28.19	187.97	87089-4016
	42	41.90	40.00	WM18220-ND	3.42	30.19	201.30	87089-4216
	44	43.90	42.00	WM18221-ND	3.51	30.99	206.60	87089-4416
	46	45.90	44.00	WM18222-ND	3.68	32.46	216.37	87089-4616
	48	47.90	46.00	WM18223-ND	3.89	34.35	228.99	87089-4816
	50	49.90	48.00	WM18224-ND	3.58	31.63	210.86	87089-5016
				Headers — Right Angle				
2	4	4.00	2.00	WM18112-ND	.62	5.51	36.73	87049-0416
	6	6.00	4.00	WM18113-ND	.66	5.85	38.98	87049-0616
	8	8.00	6.00	WM18114-ND	.84	7.45	49.69	87049-0816
	10	10.00	8.00	WM18115-ND	1.19	10.50	69.99	87049-1016
	12	12.00	10.00	WM18116-ND	1.28	11.28	75.23	87049-1216
	14	14.00	12.00	WM18117-ND	1.35	11.88	79.18	87049-1416
	16	16.00	14.00	WM18118-ND	1.42	12.49	83.26	87049-1616
	18	18.00	16.00	WM18119-ND	1.60	14.11	94.08	87049-1816
	20	20.00	18.00	WM18120-ND	1.66	14.61	97.42	87049-2016
	22	22.00	20.00	WM18121-ND	1.95	17.17	114.45	87049-2216
	24	24.00	22.00	WM18122-ND	1.91	16.87	112.49	87049-2416
	26	26.00	24.00	WM18123-ND	2.28	20.13	134.22	87049-2616
	28	28.00	26.00	WM18124-ND	2.46	21.72	144.82	87049-2816
	30	30.00	28.00	WM18125-ND	2.63	23.22	154.81	87049-3016
	32	32.00	30.00	WM18126-ND	2.81	24.79	165.26	87049-3216
	34	34.00	32.00	WM18127-ND	2.80	24.71	164.73	87049-3416
	36	36.00	34.00	WM18128-ND	2.86	25.23	168.17	87049-3616
	38	38.00	36.00	WM18129-ND	3.00	26.49	176.62	87049-3816
	40	40.00	38.00	WM18130-ND	3.07	27.07	180.44	87049-4016
	42	42.00	40.00	WM18131-ND	3.05	26.94	179.62	87049-4216
	44	44.00	42.00	WM18132-ND	3.13	27.59	183.94	87049-4416
	46	46.00	44.00	WM18133-ND	3.26	28.77	191.83	87049-4616
	48	48.00	46.00	WM18134-ND	3.33	29.38	195.89	87049-4816
	50	50.00	48.00	WM18135-ND	2.92	25.78	171.85	87049-5016
				Headers — Shrouded Vertical				
3	4	6.65	2.00	WM18058-ND	.94	8.30	55.36	87331-0420
	6	8.65	4.00	WM18059-ND	1.03	9.11	60.74	87331-0620
	8	10.65	6.00	WM18060-ND	.90	7.90	52.66	87331-0820
	10	12.65	8.00	WM18061-ND	1.10	9.72	64.82	87331-1020
	12	14.65	10.00	WM18062-ND	1.32	11.66	77.75	87331-1220
	14	16.65	12.00	WM18063-ND	1.55	13.65	90.98	87331-1420
	16	18.65	14.00	WM18064-ND	1.66	14.68	97.87	87331-1620
	18	20.65	16.00	WM18065-ND	2.31	20.41	136.05	87331-1820
	20	22.65	18.00	WM18066-ND	2.21	19.47	129.77	87331-2020
	22	24.65	20.00	WM18067-ND	2.43	21.46	143.05	87331-2220
				Headers — Shrouded Vertical (cont.)				
3	24	26.65	22.00	WM18068-ND	2.65	23.41	156.06	87331-2420
	30	32.65	28.00	WM18069-ND	3.31	29.23	194.86	87331-3020
	40	42.65	38.00	WM18070-ND	4.43	39.08	260.52	87331-4020
	44	46.65	42.00	WM18071-ND	4.87	42.98	286.55	87331-4420
	50	52.65	48.00	WM18072-ND	5.53	48.82	325.47	87331-5020
				Headers — Shrouded Right Angle				
4	4	6.65	2.00	WM18088-ND	1.07	9.48	63.18	87333-0420
	6	8.65	4.00	WM18089-ND	1.15	10.18	67.84	87333-0620
	8	10.65	6.00	WM18090-ND	1.19	10.46	69.72	87333-0820
	10	12.65	8.00	WM18091-ND	1.22	10.79	71.95	87333-1020
	12	14.65	10.00	WM18092-ND	1.47	12.94	86.29	87333-1220
	14	16.65	12.00	WM18093-ND	1.72	15.14	100.97	87333-1420
	16	18.65	14.00	WM18094-ND	1.96	17.29	115.28	87333-1620
	18	20.65	16.00	WM18095-ND	2.20	19.45	129.67	87333-1820
	20	22.65	18.00	WM18096-ND	2.45	21.60	144.00	87333-2020
	22	24.65	20.00	WM18097-ND	2.70	23.81	158.71	87333-2220
	24	26.65	22.00	WM18098-ND	2.94	25.96	173.10	87333-2420
	30	32.65	28.00	WM18099-ND	3.68	32.43	216.21	87333-3020
	40	42.65	38.00	WM18100-ND	4.91	43.35	289.01	87333-4020
	44	46.65	42.00	WM18101-ND	5.40	47.68	317.84	87333-4420
	50	52.65	48.00	WM18102-ND	6.14	54.21	361.38	87333-5020
				Headers — Shrouded SMT				
5	4	6.65	2.00	WM18073-ND	1.26	11.13	74.20	87332-0420
	6	8.65	4.00	WM18074-ND	1.58	13.91	92.75	87332-0620
	8	10.65	6.00	WM18075-ND	1.72	15.21	101.39	87332-0820
	10	12.65	8.00	WM18076-ND	1.76	15.54	103.59	87332-1020
	12	14.65	10.00	WM18077-ND	1.97	17.37	115.83	87332-1220
	14	16.65	12.00	WM18078-ND	2.13	18.77	125.16	87332-1420
	16	18.65	14.00	WM18079-ND	2.33	20.60	137.35	87332-1620
	18	20.65	16.00	WM18080-ND	2.77	24.41	162.71	87332-1820
	20	22.65	18.00	WM18081-ND	2.68	23.63	157.52	87332-2020
	22	24.65	20.00	WM18082-ND	3.24	28.55	190.35	87332-2220
	24	26.65	22.00	WM18083-ND	3.29	29.01	193.37	87332-2420
	30	32.65	28.00	WM18084-ND	3.93	34.67	231.16	87332-3020
	40	42.65	38.00	WM18085-ND	4.91	43.35	289.01	87332-4020
	44	46.65	42.00	WM18086-ND	5.40	47.68	317.84	87332-4420
	50	52.65	48.00	WM18087-ND	6.14	54.21	361.38	87332-5020
				Headers — Vertical SMT				
6	8	7.90	6.00	WM18158-ND	1.56	13.77	91.80	87267-0850
	10	9.90	8.00	WM18159-ND	1.76	15.51	103.43	87267-1050
	12	11.90	10.00	WM18160-ND	1.95	17.24	114.91	87267-1250
	14	13.90	12.00	WM18161-ND	2.10	18.50	123.33	87267-1450
	16	15.90	14.00	WM18162-ND	2.29	20.22	134.83	87267-1650
	18	17.90	16.00	WM18163-ND	2.46	21.70	144.64	87267-1850
	20	19.90	18.00	WM18164-ND	2.61	23.00	153.33	87267-2050
	22	21.90	20.00	WM18165-ND	2.87	25.36	169.10	87267-2250
	24	23.90	22.00	WM18166-ND	3.12	27.55	183.65	87267-2450
	26	25.90	24.00	WM18167-ND	3.38	29.86	199.10	87267-2650
	28	27.90	26.00	WM18168-ND	3.65	32.17	214.44	87267-2850
	30	29.90	28.00	WM18169-ND	3.71	32.75	218.33	87267-3050
	32	31.90	30.00	WM18170-ND	3.96	34.92	232.83	87267-3250
	34	33.90	32.00	WM18171-ND	4.21	37.11	247.38	87267-3450
	36	35.90	34.00	WM18172-ND	4.45	39.29	261.93	87267-3650
	38	37.90	36.00	WM18173-ND	4.74	41.86	279.10	87267-3850
	40	39.90	38.00	WM18174-ND	10.10	89.16	594.37	87267-4050
	42	41.90	40.00	WM18175-ND	4.92	43.43	289.54	87267-4250
	44	43.90	42.00	WM18176-ND	5.15	45.48	303.19	87267-4450
	46	45.90	44.00	WM18177-ND	4.21	37.16	247.72	87267-4650
	48	47.90	46.00	WM18178-ND	4.46	39.35	262.32	87267-4850
	50	49.90	48.00	WM18179-ND	5.85	51.65	344.32	87267-5050

(Continued)

2mm Milli-Grid™ Connectors *(Cont.)*

Fig. 7 – Vertical, Dual Row Through-Hole

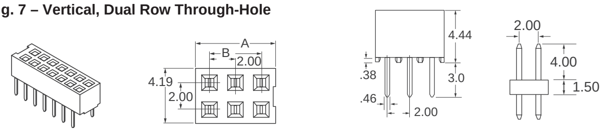


Fig. 10 – Top/Bottom Entry SMT (VLPR2)

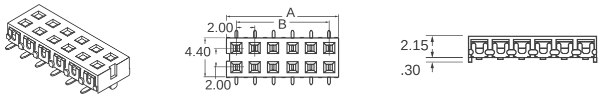


Fig. 8 –Side Entry

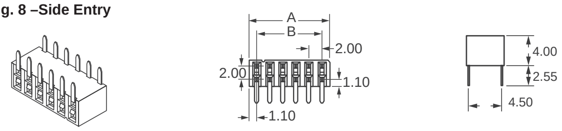


Fig. 11 – Vertical, Dual Row Top/Bottom Entry, SMT

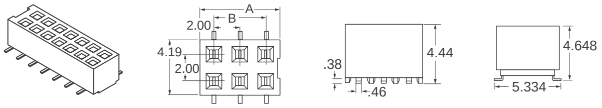


Fig. 9 – Side Entry SMT

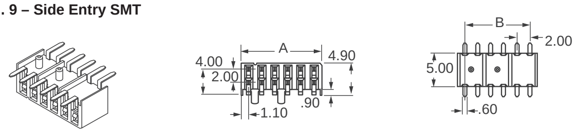


Fig. 12 – Crimp Housing

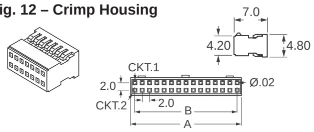


Fig. 13 – Crimp Terminal

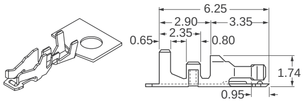


Fig.	Circuits	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
				Board-to-Board Receptacle Vertical, Dual Row Through-Hole				
7	4	4.19	2.00	WM18000-ND	1.63	14.43	96.17	79107-0001
	6	6.19	4.00	WM18001-ND	1.88	16.60	110.67	79107-0002
	8	8.19	6.00	WM18002-ND	2.04	18.00	120.02	79107-0003
	10	10.19	8.00	WM18003-ND	2.33	20.57	137.14	79107-0004
	12	12.19	10.00	WM18004-ND	2.56	22.60	150.65	79107-0005
	14	14.19	12.00	WM18005-ND	2.73	24.06	160.38	79107-0006
	16	16.19	14.00	WM18006-ND	2.97	26.22	174.80	79107-0007
	18	18.19	16.00	WM18007-ND	3.19	28.18	187.86	79107-0008
	20	20.19	18.00	WM18008-ND	3.36	29.63	197.51	79107-0009
	22	22.19	20.00	WM18009-ND	3.51	30.96	206.38	79107-0010
	24	24.19	22.00	WM18010-ND	3.83	33.79	225.25	79107-0011
	30	30.19	28.00	WM18011-ND	4.80	42.33	282.17	79107-0014
	40	40.19	38.00	WM18012-ND	6.37	56.21	374.71	79107-0019
	44	44.19	42.00	WM18013-ND	7.04	62.11	414.06	79107-0021
	50	50.19	48.00	WM18014-ND	8.00	70.59	470.59	79107-0024
				Receptacle — Side Entry				
8	8	8.20	6.00	WM18136-ND	2.26	19.93	132.90	87264-0850
	10	10.20	8.00	WM18137-ND	2.47	21.83	145.51	87264-1050
	12	12.20	10.00	WM18138-ND	2.70	23.78	158.55	87264-1250
	14	14.20	12.00	WM18139-ND	2.99	26.38	175.88	87264-1450
	16	16.20	14.00	WM18140-ND	3.13	27.63	184.23	87264-1650
	18	18.20	16.00	WM18141-ND	3.35	29.53	196.84	87264-1850
	20	20.20	18.00	WM18142-ND	3.57	31.48	209.85	87264-2050
	22	22.20	20.00	WM18143-ND	3.78	33.37	222.47	87264-2250
	24	24.20	22.00	WM18144-ND	4.00	35.33	235.56	87264-2450
	26	26.20	24.00	WM18145-ND	4.46	39.40	262.64	87264-2650
	28	28.20	26.00	WM18146-ND	4.68	41.30	275.31	87264-2850
	30	30.20	28.00	WM18147-ND	4.90	43.25	288.32	87264-3050
	32	32.20	30.00	WM18148-ND	5.12	45.14	300.96	87264-3250
	34	34.20	32.00	WM18149-ND	5.34	47.10	314.00	87264-3450
	36	36.20	34.00	WM18150-ND	5.55	49.00	326.64	87264-3650
	38	38.20	36.00	WM18151-ND	5.77	50.95	339.68	87264-3850
	40	40.20	38.00	WM18152-ND	5.99	52.84	352.29	87264-4050
	42	42.20	40.00	WM18153-ND	6.20	54.74	364.96	87264-4250
	44	44.20	42.00	WM18154-ND	6.40	56.47	376.46	87264-4450
	46	46.20	44.00	WM18155-ND	6.69	58.99	393.29	87264-4650
	48	48.20	46.00	WM18156-ND	6.86	60.53	403.52	87264-4850
	50	50.20	48.00	WM18157-ND	7.08	62.44	416.29	87264-5050
				Receptacle — Side Entry SMT				
9	10	10.20	8.00	WM18180-ND	3.83	33.77	225.15	87368-1020
	12	12.20	10.00	WM18181-ND	4.59	40.53	270.22	87368-1220
	14	14.20	12.00	WM18182-ND	4.84	42.72	284.80	87368-1420
	16	16.20	14.00	WM18183-ND	5.06	44.67	297.83	87368-1620
	18	18.20	16.00	WM18184-ND	5.36	47.25	315.01	87368-1820
	20	20.20	18.00	WM18185-ND	5.49	48.40	322.67	87368-2020
	22	22.20	20.00	WM18186-ND	5.57	49.15	327.67	87368-2220
	24	24.20	22.00	WM18187-ND	6.08	53.68	357.88	87368-2420
	26	26.20	24.00	WM18188-ND	6.36	56.15	374.31	87368-2620
	28	28.20	26.00	WM18189-ND	6.49	57.30	382.00	87368-2820
	30	30.20	28.00	WM18190-ND	6.82	60.17	401.16	87368-3020
	32	32.20	30.00	WM18191-ND	7.16	63.16	421.09	87368-3220
	34	34.20	32.00	WM18192-ND	7.79	68.77	458.45	87368-3420
	36	36.20	34.00	WM18193-ND	8.44	74.50	496.66	87368-3620
	38	38.20	36.00	WM18194-ND	9.09	80.22	534.77	87368-3820
	40	40.20	38.00	WM18195-ND	9.09	80.23	534.85	87368-4020
	42	42.20	40.00	WM18196-ND	9.74	85.97	573.12	87368-4220
	44	44.20	42.00	WM18197-ND	10.37	91.51	610.08	87368-4420
	46	46.20	44.00	WM18198-ND	11.65	102.79	685.29	87368-4620
	48	48.20	46.00	WM18199-ND	12.15	107.25	715.00	87368-4820
	50	50.20	48.00	WM18200-ND	12.68	111.88	745.84	87368-5020

Fig.	Circuits	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
				Receptacle — Top/Bottom Entry SMT (VLPR2)				
10	4	4.00	2.00	WM18103-ND	1.13	9.99	66.62	87340-0422
	6	6.00	4.00	WM18104-ND	1.53	13.53	90.23	87340-0622
	8	8.00	6.00	WM18105-ND	1.91	16.88	112.52	87340-0822
	10	10.00	8.00	WM18106-ND	2.46	21.72	144.77	87340-1022
	12	12.00	10.00	WM18107-ND	2.96	26.08	173.84	87340-1222
	14	14.00	12.00	WM18108-ND	4.08	36.04	240.28	87340-1422
	16	16.00	14.00	WM18109-ND	4.48	39.52	263.46	87340-1622
	18	18.00	16.00	WM18110-ND	4.86	42.88	285.88	87340-1822
	20	20.00	18.00	WM18111-ND	5.26	46.46	309.71	87340-2022
				Board-to-Board Receptacle Vertical, Dual Row Top/Bottom Entry SMT				
11	4	4.19	2.00	WM18015-ND	1.82	16.03	106.85	79109-0001
	6	6.19	4.00	WM18016-ND	2.06	18.21	121.40	79109-0002
	8	8.19	6.00	WM18017-ND	2.31	20.40	135.97	79109-0003
	10	10.19	8.00	WM18018-ND	2.56	22.62	150.79	79109-0004
	12	12.19	10.00	WM18019-ND	2.88	25.46	169.71	79109-0005
	14	14.19	12.00	WM18020-ND	2.99	26.42	176.12	79109-0006
	16	16.19	14.00	WM18021-ND	3.26	28.78	191.86	79109-0007
	18	18.19	16.00	WM18022-ND	3.52	31.02	206.81	79109-0008
	20	20.19	18.00	WM18023-ND	3.69	32.55	216.98	79109-0009
	22	22.19	20.00	WM18024-ND	3.86	34.03	226.84	79109-0010
	24	24.19	22.00	WM18025-ND	4.20	37.06	247.06	79109-0011
	30	30.19	28.00	WM18026-ND	5.25	46.34	308.94	79109-0014
	40	40.19	38.00	WM18027-ND	7.03	62.06	413.75	79109-0019
	44	44.19	42.00	WM18028-ND	7.74	68.29	455.27	79109-0021
	50	50.19	48.00	WM18029-ND	8.06	71.10	473.98	79109-0024
				Crimp Housing — Standard				
12	4	4.20	2.00	WM18030-ND	.34	2.99	19.90	51110-0450
	6	6.20	4.00	WM18031-ND	.44	3.90	25.97	51110-0650
	8	8.20	6.00	WM18032-ND	.47	4.18	27.88	51110-0850
	10	10.20	8.00	WM18033-ND	.50	4.41	29.39	51110-1050
	12	12.20	10.00	WM18034-ND	.52	4.58	30.53	51110-1250
	14	14.20	12.00	WM18035-ND	.59	5.20	34.69	51110-1450
	16	16.20	14.00	WM18036-ND	.68	6.01	40.04	51110-1650
	18	18.20	16.00	WM18037-ND	.73	6.46	43.06	51110-1850
	20	20.20	18.00	WM18038-ND	.80	7.08	47.20	51110-2050
	22	22.20	20.00	WM18039-ND	.87	7.71	51.41	51110-2250
	24	24.20	22.00	WM18040-ND	.94	8.34	55.57	51110-2450
	26	26.20	24.00	WM18041-ND	1.01	8.90	59.36	51110-2650
	28	28.20	26.00	WM18042-ND	1.08	9.54	63.57	51110-2850
	30	30.20	28.00	WM18043-ND	1.15	10.16	67.74	51110-3050
				Crimp Housing — With Polarization Keys				
12	8	8.20	6.00	WM18044-ND	.47	4.18	27.88	51110-0851
	10	10.20	8.00	WM18045-ND	.50	4.41	29.39	51110-1051
	12	12.20	10.00	WM18046-ND	.52	4.58	30.53	51110-1251
	14	14.20	12.00	WM18047-ND	.59	5.20	34.69	51110-1451
	16	16.20	14.00	WM18048-ND	.68	6.01	40.04	51110-1651
	18	18.20	16.00	WM18049-ND	.73	6.46	43.06	51110-1851
	20	20.20	18.00	WM18050-ND	.80	7.08	47.20	51110-2051
	22	22.20	20.00	WM18051-ND	.87	7.71	51.41	51110-2251
	24	24.20	22.00	WM18052-ND	.94	8.34	55.57	51110-2451
	26	26.20	24.00	WM18053-ND	1.01	8.90	59.36	51110-2651
	28	28.20	26.00	WM18054-ND	1.08	9.54	63.57	51110-2851
	30	30.20	28.00	WM18055-ND	1.15	10.16	67.74	51110-3051
13	Crimp Terminal (26-30 AWG)			WM18056-ND	—	1.43	11.42	50394-8100
	Crimp Terminal (26-30 AWG)			WM1128CT-ND* WM1128TR-ND†	—	.95 378.45/10,000	7.57	50394-8051
—	Hand Tool for 2mm Crimp Contacts			WM18057-ND	180.33	—	—	11-01-0204

*CT = Cutdown. †TR = Tape and Reel.

Sullins 2mm Connectors

SPECIFICATIONS: **Current Rating**: 1 Amp **Contact Resistance:** 20 milli Ohm Max. **Dielectric Withstanding**: 500 VAC **Operating Temperature:** -40°C to +105°C **Contact Material**: Headers: Brass, Receptacles: Phosphor Bronze. **Insulator Material:** Polyester, UL 94V-0 **Contact Finish:** Selective Plating, Gold/Tin

A

Fig. 1

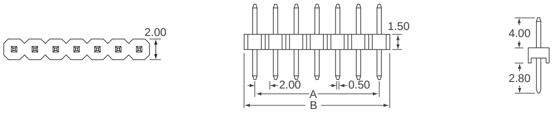


Fig. 2

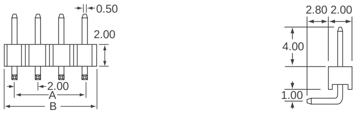


Fig. 3

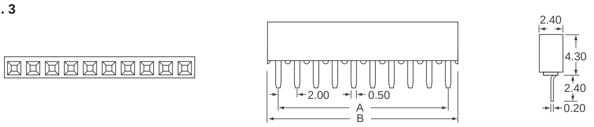


Fig. 4

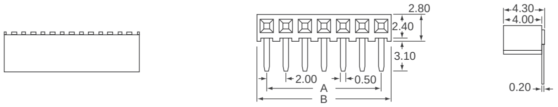


Fig.	Cir- cuits	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
				Single Row Header, Straight				
1	2	2.00	4.00	S2105-02-ND	.44	.38	.33	PRPN021PAEN
	3	4.00	6.00	S2105-03-ND	.46	.40	.34	PRPN031PAEN
	4	6.00	8.00	S2105-04-ND	.48	.42	.36	PRPN041PAEN
	5	8.00	10.00	S2105-05-ND	.50	.44	.37	PRPN051PAEN
	6	10.00	12.00	S2105-06-ND	.52	.45	.39	PRPN061PAEN
	7	12.00	14.00	S2105-07-ND	.54	.47	.40	PRPN071PAEN
	8	14.00	16.00	S2105-08-ND	.56	.49	.41	PRPN081PAEN
	9	16.00	18.00	S2105-09-ND	.58	.51	.43	PRPN091PAEN
	10	18.00	20.00	S2105-10-ND	.60	.52	.44	PRPN101PAEN
	11	20.00	22.00	S2105-11-ND	.62	.54	.46	PRPN111PAEN
	12	22.00	24.00	S2105-12-ND	.64	.56	.47	PRPN121PAEN
	13	24.00	26.00	S2105-13-ND	.66	.58	.49	PRPN131PAEN
	14	26.00	28.00	S2105-14-ND	.68	.59	.50	PRPN141PAEN
	15	28.00	30.00	S2105-15-ND	.70	.61	.52	PRPN151PAEN
	16	30.00	32.00	S2105-16-ND	.72	.63	.53	PRPN161PAEN
	17	32.00	34.00	S2105-17-ND	.74	.64	.55	PRPN171PAEN
	18	34.00	36.00	S2105-18-ND	.76	.66	.56	PRPN181PAEN
	19	36.00	38.00	S2105-19-ND	.78	.68	.58	PRPN191PAEN
	20	38.00	40.00	S2105-20-ND	.80	.70	.59	PRPN201PAEN
	21	40.00	42.00	S2105-21-ND	.82	.71	.61	PRPN211PAEN
	22	42.00	44.00	S2105-22-ND	.84	.73	.62	PRPN221PAEN
	23	44.00	46.00	S2105-23-ND	.86	.75	.63	PRPN231PAEN
	24	46.00	48.00	S2105-24-ND	.88	.77	.65	PRPN241PAEN
	25	48.00	50.00	S2105-25-ND	.90	.78	.66	PRPN251PAEN
	26	50.00	52.00	S2105-26-ND	.92	.80	.68	PRPN261PAEN
	27	52.00	54.00	S2105-27-ND	.94	.82	.69	PRPN271PAEN
	28	54.00	56.00	S2105-28-ND	.96	.84	.71	PRPN281PAEN
	29	56.00	58.00	S2105-29-ND	.98	.85	.72	PRPN291PAEN
	30	58.00	60.00	S2105-30-ND	1.00	.87	.74	PRPN301PAEN
	31	60.00	62.00	S2105-31-ND	1.02	.89	.75	PRPN311PAEN
	32	62.00	64.00	S2105-32-ND	1.04	.90	.77	PRPN321PAEN
	33	64.00	66.00	S2105-33-ND	1.06	.92	.78	PRPN331PAEN
	34	66.00	68.00	S2105-34-ND	1.08	.94	.80	PRPN341PAEN
	35	68.00	70.00	S2105-35-ND	1.10	.96	.81	PRPN351PAEN
	36	70.00	72.00	S2105-36-ND	1.12	.97	.83	PRPN361PAEN
	37	72.00	74.00	S2105-37-ND	1.14	.99	.84	PRPN371PAEN
	38	74.00	76.00	S2105-38-ND	1.16	1.01	.85	PRPN381PAEN
	39	76.00	78.00	S2105-39-ND	1.18	1.03	.87	PRPN391PAEN
	40	78.00	80.00	S2105-40-ND	1.11	.97	.82	PRPN401PAEN
				Single Row Header, Right Angle				
2	2	2.00	4.00	S2106-02-ND	.38	.34	.29	PRPN021PARN
	3	4.00	6.00	S2106-03-ND	.41	.36	.31	PRPN031PARN
	4	6.00	8.00	S2106-04-ND	.44	.39	.33	PRPN041PARN
	5	8.00	10.00	S2106-05-ND	.47	.41	.35	PRPN051PARN
	6	10.00	12.00	S2106-06-ND	.50	.44	.37	PRPN061PARN
	7	12.00	14.00	S2106-07-ND	.53	.47	.40	PRPN071PARN
	8	14.00	16.00	S2106-08-ND	.56	.49	.42	PRPN081PARN
	9	16.00	18.00	S2106-09-ND	.59	.52	.44	PRPN091PARN
	10	18.00	20.00	S2106-10-ND	.62	.54	.46	PRPN101PARN
	11	20.00	22.00	S2106-11-ND	.65	.57	.48	PRPN111PARN
	12	22.00	24.00	S2106-12-ND	.68	.60	.51	PRPN121PARN
	13	24.00	26.00	S2106-13-ND	.71	.62	.53	PRPN131PARN
	14	26.00	28.00	S2106-14-ND	.74	.65	.55	PRPN141PARN
	15	28.00	30.00	S2106-15-ND	.77	.67	.57	PRPN151PARN
	16	30.00	32.00	S2106-16-ND	.80	.70	.59	PRPN161PARN
	17	32.00	34.00	S2106-17-ND	.83	.73	.62	PRPN171PARN
	18	34.00	36.00	S2106-18-ND	.86	.75	.64	PRPN181PARN
	19	36.00	38.00	S2106-19-ND	.89	.78	.66	PRPN191PARN
	20	38.00	40.00	S2106-20-ND	.92	.80	.68	PRPN201PARN
	21	40.00	42.00	S2106-21-ND	.95	.83	.70	PRPN211PARN
	22	42.00	44.00	S2106-22-ND	.98	.86	.73	PRPN221PARN
	23	44.00	46.00	S2106-23-ND	1.01	.88	.75	PRPN231PARN
	24	46.00	48.00	S2106-24-ND	1.04	.91	.77	PRPN241PARN
2	25	48.00	50.00	S2106-25-ND	1.07	.93	.79	PRPN251PARN
	26	50.00	52.00	S2106-26-ND	1.10	.96	.81	PRPN261PARN
	27	52.00	54.00	S2106-27-ND	1.13	.99	.84	PRPN271PARN
	28	54.00	56.00	S2106-28-ND	1.16	1.01	.86	PRPN281PARN
	29	56.00	58.00	S2106-29-ND	1.19	1.04	.88	PRPN291PARN
	30	58.00	60.00	S2106-30-ND	1.22	1.06	.90	PRPN301PARN
	31	60.00	62.00	S2106-31-ND	1.25	1.09	.92	PRPN311PARN
	32	62.00	64.00	S2106-32-ND	1.28	1.12	.95	PRPN321PARN
	33	64.00	66.00	S2106-33-ND	1.31	1.14	.97	PRPN331PARN
	34	66.00	68.00	S2106-34-ND	1.34	1.17	.99	PRPN341PARN
	35	68.00	70.00	S2106-35-ND	1.37	1.19	1.01	PRPN351PARN
	36	70.00	72.00	S2106-36-ND	1.40	1.22	1.03	PRPN361PARN
	37	72.00	74.00	S2106-37-ND	1.43	1.25	1.06	PRPN371PARN
	38	74.00	76.00	S2106-38-ND	1.46	1.27	1.08	PRPN381PARN
	39	76.00	78.00	S2106-39-ND	1.49	1.30	1.10	PRPN391PARN
	40	78.00	80.00	S2106-40-ND	1.41	1.23	1.04	PRPN401PARN
				Single Row Receptacle Straight				
3	4	6.00	8.50	S2103-04-ND	.60	.50	.32	PPPN041BFCN
	5	8.00	10.50	S2103-05-ND	.63	.53	.34	PPPN051BFCN
	6	10.00	12.50	S2103-06-ND	.67	.56	.36	PPPN061BFCN
	7	12.00	14.50	S2103-07-ND	.70	.58	.37	PPPN071BFCN
	8	14.00	16.50	S2103-08-ND	.77	.64	.41	PPPN081BFCN
	9	16.00	18.50	S2103-09-ND	.81	.67	.43	PPPN091BFCN
	10	18.00	20.50	S2103-10-ND	.84	.70	.45	PPPN101BFCN
	11	20.00	22.50	S2103-11-ND	.91	.76	.49	PPPN111BFCN
	12	22.00	24.50	S2103-12-ND	.98	.82	.52	PPPN121BFCN
	15	28.00	30.50	S2103-15-ND	1.23	1.02	.65	PPPN151BFCN
	18	34.00	36.50	S2103-18-ND	1.51	1.25	.80	PPPN181BFCN
	22	42.00	44.50	S2103-22-ND	1.82	1.51	.97	PPPN221BFCN
	25	48.00	50.50	S2103-25-ND	2.07	1.72	1.10	PPPN251BFCN
	30	58.00	60.50	S2103-30-ND	2.49	2.06	1.32	PPPN301BFCN
	36	70.00	72.50	S2103-36-ND	2.98	2.47	1.58	PPPN361BFCN
	40	78.00	80.50	S2103-40-ND	3.29	2.73	1.74	PPPN401BFCN
				Single Row Receptacle, Right Angle				
4	4	6.00	8.50	S2104-04-ND	.84	.70	.45	PPPN041FGGN
	5	8.00	10.50	S2104-05-ND	.88	.73	.47	PPPN051FGGN
	6	10.00	12.50	S2104-06-ND	.95	.79	.50	PPPN061FGGN
	7	12.00	14.50	S2104-07-ND	1.05	.87	.56	PPPN071FGGN
	8	14.00	16.50	S2104-08-ND	1.12	.93	.60	PPPN081FGGN
	9	16.00	18.50	S2104-09-ND	1.16	.96	.62	PPPN091FGGN
	10	18.00	20.50	S2104-10-ND	1.19	.99	.63	PPPN101FGGN
	12	22.00	24.50	S2104-12-ND	1.40	1.16	.74	PPPN121FGGN
	15	28.00	30.50	S2104-15-ND	1.79	1.48	.95	PPPN151FGGN
	17	32.00	34.50	S2104-17-ND	2.00	1.66	1.06	PPPN171FGGN
				Single Row Receptacle SMD Contacts, Pin 1 on Left Hand Side				
5A	4	6.00	8.50	S2101-04-ND	.70	.58	.37	PPPN041BFLC
	5	8.00	10.50	S2101-05-ND	.77	.64	.41	PPPN051BFLC
	6	10.00	12.50	S2101-06-ND	.84	.70	.45	PPPN061BFLC
	7	12.00	14.50	S2101-07-ND	.91	.76	.49	PPPN071BFLC
	8	14.00	16.50	S2101-08-ND	1.02	.85	.54	PPPN081BFLC
	9	16.00	18.50	S2101-09-ND	1.09	.90	.58	PPPN091BFLC
	10	18.00	20.50	S2101-10-ND	1.12	.93	.60	PPPN101BFLC
	12	22.00	24.50	S2101-12-ND	1.33	1.11	.71	PPPN121BFLC
	15	28.00	30.50	S2101-15-ND	1.68	1.40	.89	PPPN151BFLC
	18	34.00	36.50	S2101-18-ND	2.03	1.69	1.08	PPPN181BFLC
	20	38.00	40.50	S2101-20-ND	2.24	1.86	1.19	PPPN201BFLC
	22	42.00	44.50	S2101-22-ND	2.49	2.06	1.32	PPPN221BFLC
	25	48.00	50.50	S2101-25-ND	2.80	2.32	1.48	PPPN251BFLC
				Single Row Receptacle SMD Contacts, Pin 1 on Right Hand Side				
5B	4	6.00	8.50	S2102-04-ND	.70	.58	.37	PPPN041BFLD
	5	8.00	10.50	S2102-05-ND	.77	.64	.41	PPPN051BFLD

(Continued)

Sullins 2mm Connectors *(Cont.)*

Fig. 5

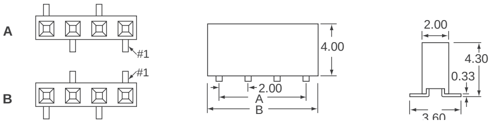


Fig. 6

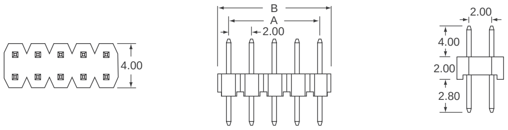


Fig. 7

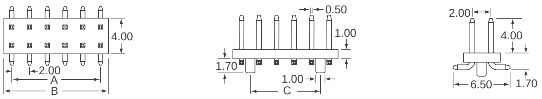


Fig. 8

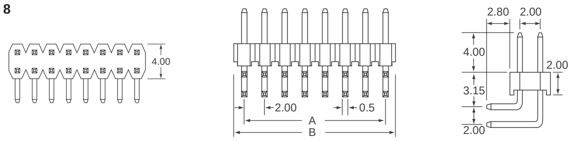


Fig. 9

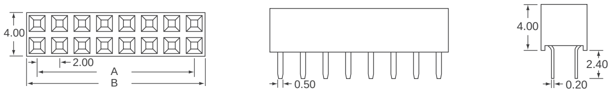


Fig. 10

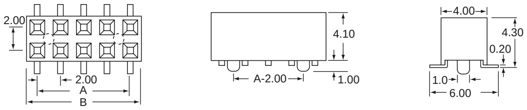


Fig.	Cir-cuits	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
5B	6	10.00	12.50	S2102-06-ND	.84	.70	.45	PPPN061BFLD
	7	12.00	14.50	S2102-07-ND	.91	.76	.49	PPPN071BFLD
	8	14.00	16.50	S2102-08-ND	1.02	.85	.54	PPPN081BFLD
	9	16.00	18.50	S2102-09-ND	1.09	.90	.58	PPPN091BFLD
	10	18.00	20.50	S2102-10-ND	1.12	.93	.60	PPPN101BFLD
	12	22.00	24.50	S2102-12-ND	1.33	1.11	.71	PPPN121BFLD
	13	24.00	26.50	S2102-13-ND	1.47	1.22	.78	PPPN131BFLD
	15	28.00	30.50	S2102-15-ND	1.68	1.40	.89	PPPN151BFLD
	18	34.00	36.50	S2102-18-ND	2.03	1.69	1.08	PPPN181BFLD
	20	38.00	40.50	S2102-20-ND	2.24	1.86	1.19	PPPN201BFLD
	22	42.00	44.50	S2102-22-ND	2.49	2.06	1.32	PPPN221BFLD
	25	48.00	50.50	S2102-25-ND	2.80	2.32	1.48	PPPN251BFLD
Dual Row Headers, Straight								
6	4	2.00	4.00	S2210-02-ND	.11	.10	.09	PRPN022PAEN
	6	4.00	6.00	S2210-03-ND	.17	.15	.13	PRPN032PAEN
	8	6.00	8.00	S2210-04-ND	.96	.83	.71	PRPN042PAEN
	10	8.00	10.00	S2210-05-ND	1.00	.87	.74	PRPN052PAEN
	12	10.00	12.00	S2210-06-ND	1.04	.90	.77	PRPN062PAEN
	14	12.00	14.00	S2210-07-ND	1.08	.94	.80	PRPN072PAEN
	16	14.00	16.00	S2210-08-ND	1.12	.97	.82	PRPN082PAEN
	18	16.00	18.00	S2210-09-ND	1.16	1.01	.85	PRPN092PAEN
	20	18.00	20.00	S2210-10-ND	1.20	1.04	.88	PRPN102PAEN
	22	20.00	22.00	S2210-11-ND	1.24	1.08	.91	PRPN112PAEN
	24	22.00	24.00	S2210-12-ND	1.28	1.11	.94	PRPN122PAEN
	26	24.00	26.00	S2210-13-ND	1.32	1.15	.97	PRPN132PAEN
	28	26.00	28.00	S2210-14-ND	1.36	1.18	1.00	PRPN142PAEN
	30	28.00	30.00	S2210-15-ND	1.40	1.22	1.03	PRPN152PAEN
	32	30.00	32.00	S2210-16-ND	1.44	1.25	1.06	PRPN162PAEN
	36	34.00	36.00	S2210-18-ND	1.52	1.32	1.12	PRPN182PAEN
	38	36.00	38.00	S2210-19-ND	1.56	1.35	1.15	PRPN192PAEN
	40	38.00	40.00	S2210-20-ND	1.60	1.39	1.18	PRPN202PAEN
	42	40.00	42.00	S2210-21-ND	1.64	1.42	1.21	PRPN212PAEN
	44	42.00	44.00	S2210-22-ND	1.68	1.46	1.24	PRPN222PAEN
	46	44.00	46.00	S2210-23-ND	1.72	1.49	1.26	PRPN232PAEN
	48	46.00	48.00	S2210-24-ND	1.76	1.53	1.29	PRPN242PAEN
	50	48.00	50.00	S2210-25-ND	1.80	1.56	1.32	PRPN252PAEN
	60	58.00	60.00	S2210-30-ND	2.00	1.74	1.47	PRPN302PAEN
	72	70.00	72.00	S2210-36-ND	2.24	1.94	1.65	PRPN362PAEN
	80	78.00	80.00	S2210-40-ND	2.22	1.93	1.63	PRPN402PAEN
Dual Row Headers, SMD, with Locating Peg								
7	4	2.00	4.00	S2208-02-ND	.60	.50	.32	PRPN022MAMP
	6	4.00	6.00	S2208-03-ND	.88	.73	.47	PRPN032MAMP
	8	6.00	8.00	S2208-04-ND	1.12	.93	.60	PRPN042MAMP
	10	8.00	10.00	S2208-05-ND	1.30	1.08	.69	PRPN052MAMP
	12	10.00	12.00	S2208-06-ND	1.47	1.22	.78	PRPN062MAMP
	14	12.00	14.00	S2208-07-ND	1.68	1.40	.89	PRPN072MAMP
	16	14.00	16.00	S2208-08-ND	1.79	1.48	.95	PRPN082MAMP
	18	16.00	18.00	S2208-09-ND	1.86	1.54	.99	PRPN092MAMP
	20	18.00	20.00	S2208-10-ND	1.96	1.63	1.04	PRPN102MAMP
	24	22.00	24.00	S2208-12-ND	2.35	1.95	1.24	PRPN122MAMP
	30	28.00	30.00	S2208-15-ND	2.91	2.41	1.54	PRPN152MAMP
	36	34.00	36.00	S2208-18-ND	3.50	2.90	1.85	PRPN182MAMP
	44	42.00	44.00	S2208-22-ND	4.27	3.54	2.26	PRPN222MAMP
	50	48.00	50.00	S2208-25-ND	4.87	4.04	2.58	PRPN252MAMP
Dual Row Headers, SMD, without Locating Peg								
7	4	2.00	4.00	S2209-02-ND	.60	.50	.32	PRPN022MAMS
	6	4.00	6.00	S2209-03-ND	.88	.73	.47	PRPN032MAMS
	8	6.00	8.00	S2209-04-ND	1.12	.93	.60	PRPN042MAMS
	10	8.00	10.00	S2209-05-ND	1.30	1.08	.69	PRPN052MAMS
	12	10.00	12.00	S2209-06-ND	1.47	1.22	.78	PRPN062MAMS
7	14	12.00	14.00	S2209-07-ND	1.68	1.40	.89	PRPN072MAMS
	16	14.00	16.00	S2209-08-ND	1.79	1.48	.95	PRPN082MAMS
	18	16.00	18.00	S2209-09-ND	1.86	1.54	.99	PRPN092MAMS
	20	18.00	20.00	S2209-10-ND	1.96	1.63	1.04	PRPN102MAMS
	22	20.00	22.00	S2209-11-ND	2.14	1.77	1.13	PRPN112MAMS
	24	22.00	24.00	S2209-12-ND	2.35	1.95	1.24	PRPN122MAMS
	26	24.00	26.00	S2209-13-ND	2.52	2.09	1.34	PRPN132MAMS
	28	26.00	28.00	S2209-14-ND	2.73	2.27	1.45	PRPN142MAMS
	30	28.00	30.00	S2209-15-ND	2.91	2.41	1.54	PRPN152MAMS
	32	30.00	32.00	S2209-16-ND	3.12	2.59	1.65	PRPN162MAMS
	34	32.00	34.00	S2209-17-ND	3.33	2.76	1.76	PRPN172MAMS
	36	34.00	36.00	S2209-18-ND	3.50	2.90	1.85	PRPN182MAMS
	38	36.00	38.00	S2209-19-ND	3.71	3.08	1.97	PRPN192MAMS
	40	38.00	40.00	S2209-20-ND	3.89	3.22	2.06	PRPN202MAMS
	42	40.00	42.00	S2209-21-ND	4.10	3.40	2.17	PRPN212MAMS
	44	42.00	44.00	S2209-22-ND	4.27	3.54	2.26	PRPN222MAMS
	46	44.00	46.00	S2209-23-ND	4.48	3.72	2.37	PRPN232MAMS
	48	46.00	48.00	S2209-24-ND	4.69	3.89	2.48	PRPN242MAMS
	50	48.00	50.00	S2209-25-ND	4.87	4.04	2.58	PRPN252MAMS
Dual Row Headers, Right Angle								
8	4	2.00	4.00	S2200-02-ND	1.32	1.15	.97	PRPN022PARN
	6	4.00	6.00	S2200-03-ND	1.38	1.20	1.01	PRPN032PARN
	8	6.00	8.00	S2200-04-ND	1.44	1.25	1.06	PRPN042PARN
	10	8.00	10.00	S2200-05-ND	1.50	1.30	1.10	PRPN052PARN
	12	10.00	12.00	S2200-06-ND	1.56	1.35	1.15	PRPN062PARN
	14	12.00	14.00	S2200-07-ND	1.62	1.41	1.19	PRPN072PARN
	16	14.00	16.00	S2200-08-ND	1.68	1.46	1.23	PRPN082PARN
	18	16.00	18.00	S2200-09-ND	1.74	1.51	1.28	PRPN092PARN
	20	18.00	20.00	S2200-10-ND	1.80	1.56	1.32	PRPN102PARN
	22	20.00	22.00	S2200-11-ND	1.86	1.61	1.37	PRPN112PARN
	24	22.00	24.00	S2200-12-ND	1.92	1.67	1.41	PRPN122PARN
	26	24.00	26.00	S2200-13-ND	1.98	1.72	1.45	PRPN132PARN
	28	26.00	28.00	S2200-14-ND	2.04	1.77	1.50	PRPN142PARN
	30	28.00	30.00	S2200-15-ND	2.10	1.82	1.54	PRPN152PARN
	32	30.00	32.00	S2200-16-ND	2.16	1.87	1.59	PRPN162PARN
	34	32.00	34.00	S2200-17-ND	2.22	1.93	1.63	PRPN172PARN
	36	34.00	36.00	S2200-18-ND	2.28	1.98	1.67	PRPN182PARN
	38	36.00	38.00	S2200-19-ND	2.34	2.03	1.72	PRPN192PARN
	40	38.00	40.00	S2200-20-ND	2.40	2.08	1.76	PRPN202PARN
	42	40.00	42.00	S2200-21-ND	2.46	2.13	1.81	PRPN212PARN
	44	42.00	44.00	S2200-22-ND	2.52	2.19	1.85	PRPN222PARN
	46	44.00	46.00	S2200-23-ND	2.58	2.24	1.89	PRPN232PARN
	48	46.00	48. 00	S2200-24-ND	2.64	2.29	1.94	PRPN242PARN
	50	48.00	50.00	S2200-25-ND	2.70	2.34	1.98	PRPN252PARN
	60	58.00	60.00	S2200-30-ND	3.00	2.60	2.20	PRPN302PARN
	80	78.00	80.00	S2200-40-ND	3.33	2.89	2.45	PRPN402PARN
Dual Row Receptacle Straight								
9	6	4.00	6.00	S2201-03-ND	.88	.73	.47	PPWN032AFCN
	8	6.00	8.00	S2201-04-ND	1.12	.93	.60	PPWN042AFCN
	10	8.00	10.00	S2201-05-ND	1.19	.99	.63	PPWN052AFCN
	12	10.00	12.00	S2201-06-ND	1.26	1.05	.67	PPWN062AFCN
	14	12.00	14.00	S2201-07-ND	1.37	1.14	.73	PPWN072AFCN
	16	14.00	16.00	S2201-08-ND	1.47	1.22	.78	PPWN082AFCN
	18	16.00	18.00	S2201-09-ND	1.58	1.31	.84	PPWN092AFCN
	20	18.00	20.00	S2201-10-ND	1.61	1.34	.86	PPWN102AFCN
	22	20.00	22.00	S2201-11-ND	1.79	1.48	.95	PPWN112AFCN
	24	22.00	24.00	S2201-12-ND	1.96	1.63	1.04	PPWN122AFCN
	26	24.00	26.00	S2201-13-ND	2.10	1.74	1.11	PPWN132AFCN
	30	28.00	30.00	S2201-15-ND	2.45	2.03	1.30	PPWN152AFCN
	34	32.00	34.00	S2201-17-ND *NEW!*	2.38	1.98	1.26	PPWN172AFCN
	40	38.00	40.00	S2201-20-ND	2.98	2.47	1.58	PPWN202AFCN
	44	42.00	44.00	S2201-22-ND	3.29	2.73	1.74	PPWN222AFCN

(Continued)

Sullins 2mm Connectors *(Cont.)*

Fig. 11

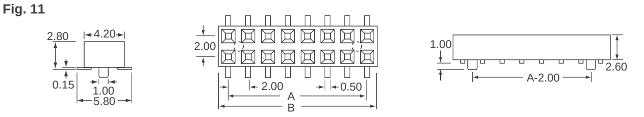


Fig. 12

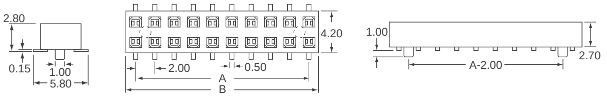


Fig. 13

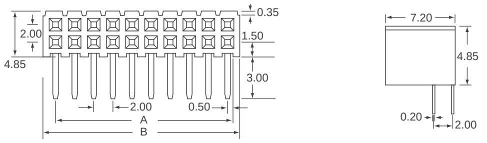


Fig. 14

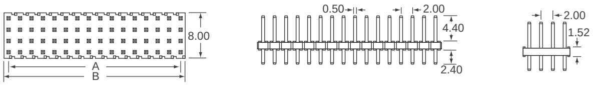


Fig. 15

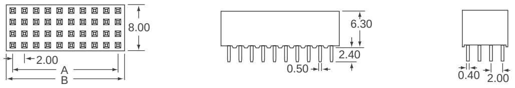


Fig. 16

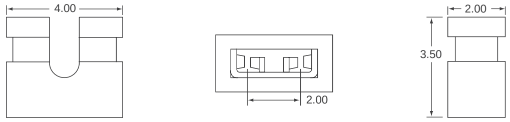
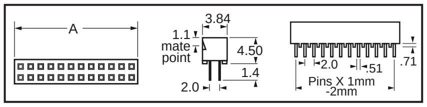


Fig.	Cir-cuits	Dimension (mm)		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
9	50	48.00	50.00	S2201-25-ND	3.75	3.11	1.98	PPWN252AFCN
	60	58.00	60.00	S2201-30-ND	4.48	3.72	2.37	PPWN302AFCN
	80	78.00	80.00	S2201-40-ND	5.99	4.96	3.17	PPWN402AFCN
				Dual Row Receptacle SMD without Locating Peg				
10	6	4.00	6.00	S2202-03-ND	.98	.82	.52	PPPN032FFKS
	8	6.00	8.00	S2202-04-ND	1.12	.93	.60	PPPN042FFKS
	10	8.00	10.00	S2202-05-ND	1.30	1.08	.69	PPPN052FFKS
	12	10.00	12.00	S2202-06-ND	1.47	1.22	.78	PPPN062FFKS
	14	12.00	14.00	S2202-07-ND	1.68	1.40	.89	PPPN072FFKS
	16	14.00	16.00	S2202-08-ND	1.89	1.57	1.00	PPPN082FFKS
	18	16.00	18.00	S2202-09-ND	2.14	1.77	1.13	PPPN092FFKS
	20	18.00	20.00	S2202-10-ND	2.24	1.86	1.19	PPPN102FFKS
	24	22.00	24.00	S2202-12-ND	2.70	2.24	1.43	PPPN122FFKS
	26	24.00	26.00	S2202-13-ND	2.91	2.41	1.54	PPPN132FFKS
	30	28.00	30.00	S2202-15-ND	3.36	2.79	1.78	PPPN152FFKS
	40	38.00	40.00	S2202-20-ND	4.48	3.72	2.37	PPPN202FFKS
	44	42.00	44.00	S2202-22-ND	4.94	4.09	2.61	PPPN222FFKS
	50	48.00	50.00	S2202-25-ND	5.60	4.64	2.96	PPPN252FFKS
	60	58.00	60.00	S2202-30-ND	6.72	5.57	3.56	PPPN302FFKS
				Dual Row Receptacle SMD with Locating Peg				
10	6	4.00	6.00	S2203-03-ND	.98	.82	.52	PPPN032FFKP
	8	6.00	8.00	S2203-04-ND	1.12	.93	.60	PPPN042FFKP
	10	8.00	10.00	S2203-05-ND	1.30	1.08	.69	PPPN052FFKP
	12	10.00	12.00	S2203-06-ND	1.47	1.22	.78	PPPN062FFKP
	14	12.00	14.00	S2203-07-ND	1.68	1.40	.89	PPPN072FFKP
	16	14.00	16.00	S2203-08-ND	1.89	1.57	1.00	PPPN082FFKP
	18	16.00	18.00	S2203-09-ND	2.14	1.77	1.13	PPPN092FFKP
	24	22.00	24.00	S2203-12-ND	2.70	2.24	1.43	PPPN122FFKP
	30	28.00	30.00	S2203-15-ND	3.36	2.79	1.78	PPPN152FFKP
	44	42.00	44.00	S2203-22-ND	4.94	4.09	2.61	PPPN222FFKP
	50	48.00	50.00	S2203-25-ND	5.60	4.64	2.96	PPPN252FFKP
	60	58.00	60.00	S2203-30-ND	6.72	5.57	3.56	PPPN302FFKP
				Dual Row Receptacle, Bottom Entry, SMD, with Locating Peg				
11	10	8.00	10.00	S2205-05-ND	1.82	1.51	.97	PPPN052GHNP
	12	10.00	12.00	S2205-06-ND	2.10	1.74	1.11	PPPN062GHNP
	14	12.00	14.00	S2205-07-ND	2.38	1.98	1.26	PPPN072GHNP
	16	14.00	16.00	S2205-08-ND	2.49	2.06	1.32	PPPN082GHNP
	18	16.00	18.00	S2205-09-ND	2.56	2.12	1.36	PPPN092GHNP
	20	18.00	20.00	S2205-10-ND	2.59	2.15	1.37	PPPN102GHNP
	24	22.00	24.00	S2205-12-ND	3.12	2.59	1.65	PPPN122GHNP
	26	24.00	26.00	S2205-13-ND	3.36	2.79	1.78	PPPN132GHNP
	30	28.00	30.00	S2205-15-ND	3.89	3.22	2.06	PPPN152GHNP
	36	34.00	36.00	S2205-18-ND	4.69	3.89	2.48	PPPN182GHNP
	44	42.00	44.00	S2205-22-ND	5.71	4.73	3.02	PPPN222GHNP
	56	54.00	56.00	S2205-28-ND	7.11	5.89	3.76	PPPN282GHNP
	60	58.00	60.00	S2205-30-ND	7.63	6.33	4.04	PPPN302GHNP
				Dual Row Receptacle, SMD, Top Entry Low Profile with Locating Peg				
12	10	8.00	10.40	S2206-05-ND	1.82	1.51	.97	PPPN052GFNP
	12	10.00	12.40	S2206-06-ND	2.10	1.74	1.11	PPPN062GFNP
	14	12.00	14.40	S2206-07-ND	2.38	1.98	1.26	PPPN072GFNP
	16	14.00	16.40	S2206-08-ND	2.49	2.06	1.32	PPPN082GFNP
	18	16.00	18.40	S2206-09-ND	2.56	2.12	1.36	PPPN092GFNP
	20	18.00	20.40	S2206-10-ND	2.59	2.15	1.37	PPPN102GFNP
	24	22.00	24.40	S2206-12-ND	3.12	2.59	1.65	PPPN122GFNP
	30	28.00	30.40	S2206-15-ND	3.89	3.22	2.06	PPPN152GFNP
	36	34.00	36.40	S2206-18-ND	4.69	3.89	2.48	PPPN182GFNP
	44	42.00	44.40	S2206-22-ND	5.71	4.73	3.02	PPPN222GFNP
	56	54.00	56.40	S2206-28-ND	7.11	5.89	3.76	PPPN282GFNP
	60	58.00	60.40	S2206-30-ND	7.63	6.33	4.04	PPPN302GFNP
	70	68.00	70.40	S2206-35-ND	8.89	7.37	4.70	PPPN352GFNP
	80	78.00	80.40	S2206-40-ND	10.15	8.41	5.37	PPPN402GFNP

Fig.	Cir-cuits	Dimension (mm)		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
				Dual Row Receptacle, SMD, Top Entry Low Profile without Locating Peg				
12	8	6.00	8.40	S2207-04-ND	1.51	1.25	.80	PPPN042GFNS
	10	8.00	10.40	S2207-05-ND	1.82	1.51	.97	PPPN052GFNS
	12	10.00	12.40	S2207-06-ND	2.10	1.74	1.11	PPPN062GFNS
	14	12.00	14.40	S2207-07-ND	2.38	1.98	1.26	PPPN072GFNS
	16	14.00	16.40	S2207-08-ND	2.49	2.06	1.32	PPPN082GFNS
	18	16.00	18.40	S2207-09-ND	2.56	2.12	1.36	PPPN092GFNS
	20	18.00	20.40	S2207-10-ND	2.59	2.15	1.37	PPPN102GFNS
	24	22.00	24.40	S2207-12-ND	3.12	2.59	1.65	PPPN122GFNS
	30	28.00	30.40	S2207-15-ND	3.89	3.22	2.06	PPPN152GFNS
	36	34.00	36.40	S2207-18-ND	4.69	3.89	2.48	PPPN182GFNS
	44	42.00	44.40	S2207-22-ND	5.71	4.73	3.02	PPPN222GFNS
	56	54.00	56.40	S2207-28-ND	7.11	5.89	3.76	PPPN282GFNS
	60	58.00	60.40	S2207-30-ND	7.63	6.33	4.04	PPPN302GFNS
	70	68.00	70.40	S2207-35-ND	8.89	7.37	4.70	PPPN352GFNS
	80	78.00	80.40	S2207-40-ND	10.15	8.41	5.37	PPPN402GFNS
				Dual Row Receptacle Right Angle				
13	6	4.00	6.50	S2204-03-ND	.88	.73	.47	PPWN032FJFN
	8	6.00	8.50	S2204-04-ND	1.12	.93	.60	PPWN042FJFN
	10	8.00	10.50	S2204-05-ND	1.19	.99	.63	PPWN052FJFN
	12	10.00	12.50	S2204-06-ND	1.26	1.05	.67	PPWN062FJFN
	14	12.00	14.50	S2204-07-ND	1.37	1.14	.73	PPWN072FJFN
	16	14.00	16.50	S2204-08-ND	1.47	1.22	.78	PPWN082FJFN
	18	16.00	18.50	S2204-09-ND	1.58	1.31	.84	PPWN092FJFN
	20	18.00	20.50	S2204-10-ND	1.61	1.34	.86	PPWN102FJFN
	22	20.00	22.50	S2204-11-ND	1.79	1.48	.95	PPWN112FJFN
	24	22.00	24.50	S2204-12-ND	1.96	1.63	1.04	PPWN122FJFN
	26	24.00	26.50	S2204-13-ND	2.10	1.74	1.11	PPWN132FJFN
	28	26.00	28.50	S2204-14-ND	2.28	1.89	1.21	PPWN142FJFN
	30	28.00	30.50	S2204-15-ND	2.45	2.03	1.30	PPWN152FJFN
	32	30.00	32.50	S2204-16-ND	2.38	1.98	1.26	PPWN162FJFN
	34	32.00	34.50	S2204-17-ND	2.56	2.12	1.36	PPWN172FJFN
	36	34.00	36.50	S2204-18-ND	2.70	2.24	1.43	PPWN182FJFN
	38	36.00	38.50	S2204-19-ND	2.84	2.35	1.50	PPWN192FJFN
	40	38.00	40.50	S2204-20-ND	2.98	2.47	1.58	PPWN202FJFN
	42	40.00	42.50	S2204-21-ND	3.15	2.61	1.67	PPWN212FJFN
	44	42.00	44.50	S2204-22-ND	3.29	2.73	1.74	PPWN222FJFN
	46	44.00	46.50	S2204-23-ND	3.43	2.85	1.82	PPWN232FJFN
	48	46.00	48.50	S2204-24-ND	3.57	2.96	1.89	PPWN242FJFN
	50	48.00	50.50	S2204-25-ND	3.75	3.11	1.98	ßPPWN252FJFN
	60	58.00	60.50	S2204-30-ND	4.48	3.72	2.37	PPWN302FJFN
				Headers - Quad Row, Straight				
14	24	10.00	12.00	S2401-06-ND	8.06	6.99	5.91	PRPN064RCCN
	40	18.00	20.00	S2401-10-ND	8.22	7.13	6.03	PRPN104RCCN
	48	22.00	24.00	S2401-12-ND	8.30	7.19	6.09	PRPN124RCCN
	60	28.00	30.00	S2401-15-ND	8.42	7.30	6.18	PRPN154RCCN
	72	34.00	36.00	S2401-18-ND	8.54	7.40	6.26	PRPN184RCCN
	84	40.00	42.00	S2401-21-ND	8.66	7.51	6.35	PRPN214RCCN
	96	46.00	48.00	S2401-24-ND	8.78	7.61	6.44	PRPN244RCCN
	120	58.00	60.00	S2401-30-ND	9.02	7.82	6.62	PRPN304RCCN
				Quad Row, Receptacle Straight				
15	24	10.00	12.40	S2402-06-ND	2.73	2.27	1.45	PPRN064EFCN
	40	18.00	20.40	S2402-10-ND	4.55	3.77	2.41	PPRN104EFCN
	48	22.00	24.40	S2402-12-ND	5.46	4.53	2.89	PPRN124EFCN
	60	28.00	30.40	S2402-15-ND	6.83	5.66	3.61	PPRN154EFCN
	72	34.00	36.40	S2402-18-ND	8.19	6.79	4.33	PPRN184EFCN
	84	40.00	42.40	S2402-21-ND	9.56	7.92	5.06	PPRN214EFCN
	96	46.00	48.40	S2402-24-ND	10.92	9.05	5.78	PPRN244EFCN
	120	58.00	60.40	S2402-30-ND	13.65	11.31	7.22	PPRN304EFCN
				Shunt, Open Top				
16	2	Tin		S9003-ND	1.05/10	8.75/100		STN02SYBN
	2	Gold		S9004-ND	1.05/10	8.75/100		SPN02SYBN

2mm x 2mm Vertical Socket

Dimensions in mm



Features: • High temperature dielectric • IR, vapor and wave solder compatible • Available in thru hole • Industry standard compatible • Minimizes PC board stacking heights • End stackable feature • Side stackable feature

Physical Specifications: • **Insulation Material:** High Temperature Glass Filled Polyester (PCT) • Color: Natural • **Marking:** Molded orientation delta • **Contact Material:** Beryllium copper • **Contact Plating:** • Wiping area: 30µ" gold plate • Solder Tails: 100µ" 90/10 SnPb plate • Underplate: 50µ" nickel

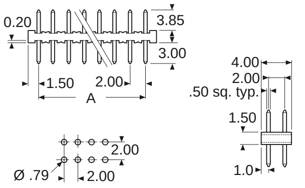
Electrical Specifications: • Current Rating: 1.5Amp • Insulation Resistance: 5000 Megohms @ 250 volts min. • Withstanding Voltage: 500 VDC @ Sea level

Environmental Specifications: • Operating Temp.: -55° to +105°C

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
Socket Vertical PC Mount						
8	.310 (7.87)	3M1008-ND	1.91	1.46	1.32	150208-6002-TB
10	.389 (9.88)	3M1010-ND	2.00	1.52	1.38	150210-6002-TB
12	.467 (11.86)	3M1012-ND	2.06	1.57	1.42	150212-6002-TB
20	.782 (19.86)	3M1020-ND	2.35	1.79	1.62	150220-6002-TB
24	.940 (23.88)	3M1024-ND	2.50	1.90	1.72	150224-6002-TB
30	1.176 (29.87)	3M1030-ND	2.70	2.06	1.86	150230-6002-TB
40	1.570 (39.88)	3M1040-ND	3.06	2.33	2.11	150240-6002-TB
44	1.727 (43.87)	3M1044-ND	3.20	2.44	2.21	150244-6002-TB
50	1.964 (49.88)	3M1050-ND	3.41	2.60	2.35	150250-6002-TB
60	2.357 (59.87)	3M1060-ND	3.79	2.88	2.61	150260-6002-TB

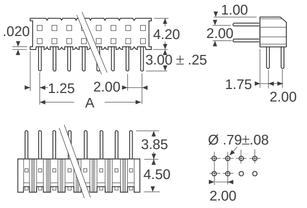
2mm x 2mm Pin Strip Headers

Dual Row – Straight Header



Dimensions in mm

Dual Row – Right Angle Header



Dimensions in mm

Features: • Industry standard compatible • High temperature dielectric • IR, vapor and wave solder compatible • Straight Solder Tail • Maximizes use of PC board space • Mates with boardmount and wiremount products • End stackable feature • Side stackable feature

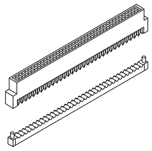
Physical Specifications: • **Contact Plating:** • Wiping area: Gold - MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 90/10 Tin Lead - MIL-P-81728 • Underplate: 100µ" nickel - QQ-N-290, Class 2 • **Contact Material:** Copper Alloy • **Insulation Material:** • Right Angle: Glass Filled Polyester (PCT) • Straight: Liquid Crystal Polymer (LCP) • Flammability: UL 94V-0 • **Color:** • Natural

Electrical Specifications: • Current Rating: 1.5Amp • Insulation Resistance: >5x10^9 Ohms @ 250 VDC • Withstanding Voltage: 500 VDC @ Sea level

Environmental Specifications: • Operating Temperature: -55° to +105°C

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
Dual Row Straight Header						
8	.295 (7.49)	3M1108-ND	.96	.73	.66	151208-8422-TB
10	.374 (9.50)	3M1110-ND	1.56	1.19	1.08	151210-8422-TB
12	.453 (11.51)	3M1112-ND	1.16	.89	.81	151212-8422-TB
20	.768 (19.51)	3M1120-ND	1.56	1.19	1.08	151220-8422-TB
24	.925 (23.50)	3M1124-ND	1.79	1.36	1.23	151224-8422-TB
30	1.162 (29.51)	3M1130-ND	2.06	1.57	1.42	151230-8422-TB
40	1.556 (39.52)	3M1140-ND	2.45	1.87	1.69	151240-8422-TB
44	1.714 (43.54)	3M1144-ND	2.64	2.01	1.82	151244-8422-TB
50	1.950 (49.53)	3M1150-ND	2.91	2.22	2.01	151250-8422-TB
60	2.344 (59.54)	3M1160-ND	3.37	2.56	2.32	151260-8422-TB
Dual Row Right Angle Header						
8	.295 (7.49)	3M1208-ND	.62	.48	.43	151208-7422-TB
10	.374 (9.50)	3M1210-ND	.71	.54	.49	151210-7422-TB
12	.453 (11.51)	3M1212-ND	.77	.59	.53	151212-7422-TB
20	.768 (19.51)	3M1220-ND	1.04	.79	.72	151220-7422-TB
24	.925 (23.50)	3M1224-ND	1.21	.92	.83	151224-7422-TB
30	1.162 (29.51)	3M1230-ND	1.39	1.06	.96	151230-7422-TB
40	1.556 (39.52)	3M1240-ND	1.87	1.43	1.29	151240-7422-TB
44	1.714 (43.54)	3M1244-ND	2.00	1.52	1.38	151244-7422-TB
50	1.950 (49.53)	3M1250-ND	2.18	1.66	1.51	151250-7422-TB
60	2.344 (59.54)	3M1260-ND	2.50	1.90	1.72	151260-7422-TB

2mm Wiremount Socket



2mm Wiremount Socket – 1mm Pitch Cable

Features: • Industry standard compatible • Mates with 2mm x 2mm grid pin strips • Low profile • Preassembled covers • Available with and without strain relief **Physical Specifications:** • **Insulation Material:** Glass Filled Polyester (PBT), Flammability: UL94 V-0 • Color: Gray • **Contact Material:** Beryllium copper • **Contact Plating:** • Underplate and U-slot: 50-150µ" Nickel, QQ-N-290, Class 2 • Wiping area: Gold Mil-G-45204, Type II, Grade C • **Marking:** Orientation triangle and 3M logo **Electrical Specifications:** • Current Rating: 1Amp • Insulation Resistance: >1x10Ω at 500 Vdc • Withstanding Voltage: 1000Vrms at Sea Level **Environmental Specifications:** • Operating Temperature Rating: -55° to +105°C **Rating:** UL File No. E86982, CSA File No. LR#48869

1.0mm Round Conductor Flat Cable – 28AWG Stranded, PVC

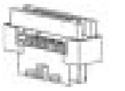
Features: • Close spacing permits high signal density • 28AWG wire on 1mm centers permits mass termination to 2 mm connectors • Zippable for branching or discrete termination • Stranded wire provides flexibility and extended product life **Physical Specifications:** • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray • Marking: Red Edge • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper **Electrical Specifications:** • Voltage Rating: 300V • Insulation Resistance: >1x10^{10}Ω/3m (10 ft) • Characteristic Impedance: 92Ω Unbalanced, 146Ω Balanced • Capacitance: 55.50 pF/m Unbalanced, 32.77 pF/m Balanced • Inductance: 0.47 µH/m Unbalanced, 0.70 µH/m Balanced • Propagation Delay: 4.95 ns/m Unbalanced, 4.78 ns/m Balanced **Environmental Specifications:** • Temperature Rating Operating: -20°C to +105°C • Flammability Rating: UL: VW-1, CSA: FT1 **Rating:** UL File No. E42769, Style 2651 CSA File No. LL 53649 (optional)

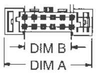
No. of Pos.	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
IDC Socket Gold					
10	MSA10A-ND	3.14	2.39	2.12	152210-0100-GB
12	MSA12A-ND	3.18	2.42	2.19	152212-0100-GB
44	MSA44A-ND	4.49	3.42	3.09	152244-0100-GB
50	MSA50A-ND	4.58	3.48	3.15	152250-0100-GB
IDC Socket Gold with Strain Relief					
10	MSE10A-ND	3.64	2.77	2.51	152210-0103-GB
12	MSE12A-ND	3.83	2.91	2.64	152212-0103-GB
44	MSE44A-ND	5.05	3.84	3.48	152244-0103-GB
50	MSE50A-ND	5.14	3.91	3.54	152250-0103-GB

No. of Pos.	(NOTE: "X" in Part No. Represents No. of Meters) Digi-Key Part No.	Price Per Meters 5	10	25	50	100	3M Part No.
Ribbon Cable Gray							
10	MC10L-X-ND	7.81	14.50	32.35	55.78	89.24	3625/10 100M
12	MC12L-X-ND	9.37	17.40	38.82	66.93	107.08	3625/12 100M
44	MC44L-X-ND	34.58	64.22	143.26	247.00	395.20	3625/44 100M
50	MC50L-X-ND	39.29	72.96	162.76	280.63	449.00	3625/50 100M

100m reel quantity may contain splices. Splice position will be marked on the reel.

2mm Cable-to-Board Receptacle

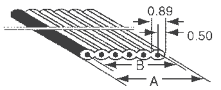




UL2651, UL2678 **UL File No:** E29179 CSA **File No:** LR19980 **Mates With:** Milli-Grid 2.00mm Headers **Electrical: Voltage:** 125V DC **Current:** 1.0A **Contact Res.:** 30mΩ max. **Dielectric Withstanding Volt:** 500V AC **Insulation Res.:** 5000MΩ min. **Physical: Housing:** High Thermoplastic, UL 94V-0 **Contact:** Copper Alloy **Plating Contact Area:** (15µ") Gold **Operating Temp:** -20 to +85ºC **Cable:** 1.00mm Flat Cable, 7 Strands, 28 AWG

No. of Pos.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	25	Molex Part No.
Dual Row, IDT w/out Polarization and Locking Ramp							
10	16.65	8.00	WM1410-ND	2.68	2.15	1.79	87568-1061
12	18.65	10.00	WM1412-ND	2.91	2.33	1.94	87568-1261
14	20.65	12.00	WM1414-ND	3.35	2.69	2.24	87568-1461
16	22.65	14.00	WM1416-ND	3.59	2.88	2.40	87568-1661
20	26.65	18.00	WM1420-ND	3.74	3.00	2.50	87568-2061
22	28.65	20.00	WM1422-ND	4.12	3.30	2.75	87568-2261
24	30.65	22.00	WM1424-ND	4.49	3.59	3.00	87568-2461
26	32.65	24.00	WM1426-ND	4.58	3.66	3.05	87568-2661
30	36.65	28.00	WM1430-ND	4.95	3.96	3.31	87568-3061
34	40.65	32.00	WM1434-ND	5.09	4.08	3.40	87568-3461
40	46.65	38.00	WM1440-ND	5.63	4.50	3.75	87568-4061
44	50.65	42.00	WM1444-ND	5.76	4.62	3.85	87568-4461
50	56.65	48.00	WM1450-ND	6.36	5.09	4.24	87568-5061
Dual Row, IDT with Single Locking Ramp							
10	16.65	8.00	WM14010-ND	2.47	1.98	1.65	87568-1071
12	18.65	10.00	WM14012-ND	2.91	2.33	1.94	87568-1271
Dual Row, IDT with Polarization and Locking Ramp							
14	20.65	12.00	WM14114-ND	3.35	2.69	2.24	87568-1491
16	22.65	14.00	WM14116-ND	3.59	2.88	2.40	87568-1691
20	26.65	18.00	WM14120-ND	3.74	3.00	2.50	87568-2091
22	28.65	20.00	WM14122-ND	4.12	3.30	2.75	87568-2291
24	30.65	22.00	WM14124-ND	4.49	3.59	3.00	87568-2491
26	32.65	24.00	WM14126-ND	4.58	3.66	3.05	87568-2691
30	36.65	28.00	WM14130-ND	4.83	3.87	3.22	87568-3091
34	40.65	32.00	WM14134-ND	5.09	4.08	3.40	87568-3491
40	46.65	38.00	WM14140-ND	5.63	4.50	3.75	87568-4091
44	50.65	42.00	WM14144-ND	5.45	4.36	3.64	87568-4491
50	56.65	48.00	WM14150-ND	6.46	5.18	4.31	87568-5091

1mm Round Conductor Flat Cable

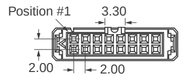


UL File No: E61522, UL Style No. 2678 **CSA File No:** LL61126 **Electrical: Voltage:** 150V **Physical: Flammability:** VW-1 **Operating Temp.:** -20 to +105ºC **Insulation:** Gray PVC **Edge Mark:** Black, 28AWG Stranded, Tinned

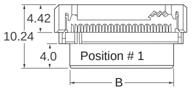
Cir-cuits	Dim. (mm) A	B	(NOTE: "X" in Part No. Represents No. of Feet) Digi-Key Part No.	Price Per Feet 5	10	25	50	100
10	10.00	9.00	WM11-X-ND	3.97	7.48	16.36	28.05	46.76
20	20.00	19.00	WM12-X-ND	6.77	12.75	27.89	47.82	79.70
24	24.00	23.00	WM13-X-ND	8.13	15.30	33.47	57.38	95.63
40	40.00	39.00	WM14-X-ND	14.90	28.05	61.35	105.18	175.30
44	44.00	43.00	WM15-X-ND	16.39	30.86	67.50	115.71	192.85
50	50.00	49.00	WM16-X-ND	16.93	31.87	69.72	119.53	199.21

2mm Ribbon Connectors

Polarized



Non-polarized



Dimensions in mm

The new 2.0 (.079) AMP-LATCH® receptacle connector family features contacts on a true 2.0 x 2.0 (.079 x .079) mating grid for 1.0 (.039) pitch ribbon. These receptacles feature insulation displacement contacts (IDC) with a top/bottom single beam contact orientation. Contacts are beryllium copper, duplex plated 30µ" gold in the mating area and 100µ" min. tin-lead on termination end all over 50µ" nickel underplating. Contact mating area is 1.54 (.061) from the face of the housing and they accept 0.50mm (.0197) round or square posts.

Product Facts:

- True hard metric 2.0 x 2.0 mating grid for 1.0 pitch ribbon cable
- Insulation displacement (IDC), beryllium copper contacts, duplex plated gold-over-nickel
- U.L. 94V-0 rated thermoplastic components

Performance Data:

- Durability: 150 cycles
- Termination Resistance: 25 milliohms max.
- Mating Force: 1.67 N max.
- Unmating Force: 0.14 N min.
- Operating Temp. : -65°C to +105°C

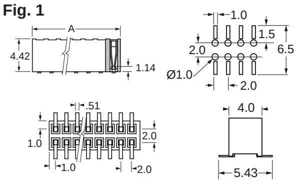
No. of Pos.	Dimensions A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Recept.-Feed Thru Cover Polarized						
10	15.16	10.41	AKA10K-ND	2.18	1.37	111623-1
14	19.18	14.40	AKA14K-ND	2.21	1.39	111623-2
16	21.18	16.41	AKA16K-ND	2.28	1.44	111623-3
20	25.17	20.40	AKA20K-ND	2.35	1.48	111623-4
24	29.18	24.41	AKA24K-ND	2.67	1.68	111623-5
26	31.17	26.42	AKA26K-ND	2.73	1.72	111623-6
30	35.18	30.40	AKA30K-ND	2.78	1.75	111623-7
40	45.19	40.41	AKA40K-ND	3.41	2.14	111623-9
44	49.17	44.40	AKA44K-ND	3.42	2.15	1-111623-0
50	55.17	50.39	AKA50K-ND	3.63	2.28	1-111623-1
Recept.-Feed Thru Cover Non-Polarized						
8	13.18	8.41	ASA08K-ND	2.51	1.58	1-111626-6
10	15.16	10.41	ASA10K-ND	2.18	1.37	111626-1
14	19.18	14.40	ASA14K-ND	2.21	1.39	111626-2
16	21.18	16.41	ASA16K-ND	2.28	1.44	111626-3
20	25.17	20.40	ASA20K-ND	2.35	1.48	111626-4
24	29.18	24.41	ASA24K-ND	2.67	1.68	111626-5
26	31.17	26.42	ASA26K-ND	2.73	1.72	111626-6
34	39.17	34.42	ASA34K-ND	2.89	1.82	111626-8
40	45.19	40.41	ASA40K-ND	3.41	2.14	1-111626-9
44	49.17	44.40	ASA44K-ND	3.42	2.15	1-111626-0
50	55.17	50.39	ASA50K-ND	3.63	2.28	1-111626-1

DELPHI
Connection Systems

SPECIALTY ELECTRONICS

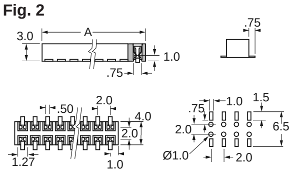
2mm SMT Headers / Receptacles

Fig. 1



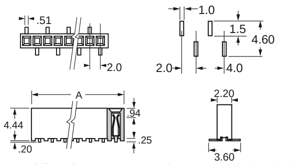
Specifications: • Housing Material: High temperature thermoplastic, UL flammability rating 94 V-O. • Color: Natural • Contact Material: Phosphor Bronze.

Fig. 2



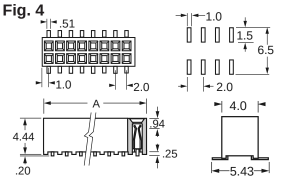
Specifications: • Housing Material: High temperature thermoplastic, UL flammability rating 94 V-O. • Color: Natural • Contact Material: Beryllium copper.

Fig. 3



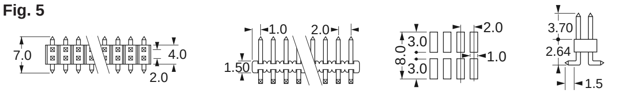
Specifications: • Housing Material: High temperature thermoplastic, UL flammability rating 94 V-O • Color: Natural • Contact Material: Phosphor Bronze.

Fig. 4



Specifications: • Housing Material: High temperature thermoplastic, UL flammability rating 94 V-O • Color: Natural • Contact Material: Phosphor Bronze.

Fig. 5

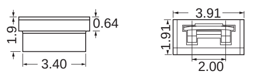


Specifications: • Housing Material: High temp. thermoplastic, UL flammability rating 94 V-O • Color: Black • Pin Material: Phosphor Bronze, drawn wire.

Fig.	No. of Pos.	Dim. "A"	Finish	Digi-Key Part No.	Price Each 1	10	100	500	Manufacturer Part No.
Dual Row, Bottom Entry (Receptacle)									
1	8	8.026	15µ Gold	SPE1017-ND	1.34	1.20	.99	.79	203-04-15-01
	12	12.040	15µ Gold	SPE1018-ND	1.85	1.66	1.37	1.08	203-06-15-01
	16	16.053	15µ Gold	SPE1019-ND	2.39	2.15	1.77	1.40	203-08-15-01
	20	20.066	15µ Gold	SPE1020-ND	2.91	2.61	2.15	1.70	203-10-15-01
	24	24.079	15µ Gold	SPE1021-ND	3.42	3.06	2.52	2.00	203-12-15-01
	26	26.086	15µ Gold	SPE1022-ND	3.71	3.32	2.73	2.16	203-13-15-01
	30	30.099	15µ Gold	SPE1023-ND	4.22	3.78	3.11	2.46	203-15-15-01
Dual Row, Bottom Entry, Ultra Low Profile (Receptacle)									
2	8	8.026	15µ Gold	SPE1010-ND	1.11	1.00	.82	.65	233-0433-01
	12	12.040	15µ Gold	SPE1011-ND	1.51	1.36	1.12	.88	233-0633-01
	16	16.053	15µ Gold	SPE1012-ND	1.94	1.74	1.43	1.13	233-0833-01
	20	20.066	15µ Gold	SPE1013-ND	2.34	2.10	1.73	1.37	233-1033-01
	24	24.079	15µ Gold	SPE1014-ND	2.74	2.45	2.02	1.60	233-1233-01
	26	26.086	15µ Gold	SPE1015-ND	2.96	2.66	2.19	1.73	233-1333-01
	30	30.099	15µ Gold	SPE1016-ND	3.36	3.01	2.48	1.96	233-1533-01
Single Row, Top Entry (Receptacle)									
3	4	8.026	15µ Gold	SPE1024-ND	.80	.72	.59	.47	204-04-15-01
	6	12.040	15µ Gold	SPE1025-ND	1.08	.97	.80	.64	204-06-15-01
	8	16.053	15µ Gold	SPE1026-ND	1.34	1.20	.99	.79	204-08-15-01
	10	20.066	15µ Gold	SPE1027-ND	1.60	1.43	1.18	.93	204-10-15-01
	12	24.079	15µ Gold	SPE1028-ND	1.85	1.66	1.37	1.08	204-12-15-01
	13	26.086	15µ Gold	SPE1029-ND	2.00	1.79	1.47	1.17	204-13-15-01
	15	30.099	15µ Gold	SPE1030-ND	2.25	2.02	1.66	1.32	204-15-15-01
Dual Row, Top Entry (Receptacle)									
4	8	8.026	15µ Gold	SPE1031-ND	1.34	1.20	.99	.79	205-04-1501
	12	12.040	15µ Gold	SPE1032-ND	1.85	1.66	1.37	1.08	205-06-1501
	16	16.053	15µ Gold	SPE1033-ND	2.39	2.15	1.77	1.40	205-08-1501
	20	20.066	15µ Gold	SPE1034-ND	2.91	2.61	2.15	1.70	205-10-1501
	24	24.079	15µ Gold	SPE1035-ND	3.42	3.06	2.52	2.00	205-12-1501
	26	26.086	15µ Gold	SPE1036-ND	3.71	3.32	2.73	2.16	205-13-1501
	30	30.099	15µ Gold	SPE1037-ND	2.60	2.34	1.92	1.52	205-15-1501
36 Position, Dual Row									
5	—	—	Gold	SPE1211-ND	2.34	2.10	1.73	1.37	SM2MD18S15-01
	—	—	Tin	SPE1212-ND	1.62	1.46	1.20	.95	SM2MD18S02-01

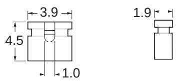
2mm Shunts

Fig. 1



ULTRA LOW PROFILE: • Housing Material: Glass filled thermoplastic, UL flammability rating 94 V-O • Color: Black • Contact Material: Beryllium Copper

Fig. 2



STANDARD PROFILE: • Housing Material: Glass filled thermoplastic, UL flammability rating 94 V-O • Contact Material: Phosphor Bronze

Fig.	Finish	Digi-Key Part No.	Price Each 1	10	100	500	Manufacturer Part No.
1	Low Profile, Tin	SPE1303-ND	.26	.23	.20	.19	2MS-19-02-01
	Low Profile, Gold*	SPE1304-ND	.52	.46	.39	.38	2MS-19-33-01
2	Standard Profile, Gold*	SPE1302-ND	.14	.13	.11	.09	2JM-G

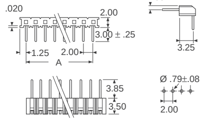
*30µ" gold plated

NORCOMP

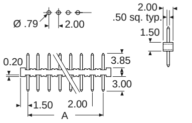
2mm Headers

Features: • 15 microinches selective gold plating • Insulator is glass filled thermoplastic UL Rating 94V0 • Color: Black • Contact material is phosphor bronze • "Post plated" contacts; no bare edges.

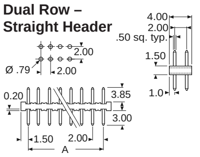
Single Row – Right Angle Header



Single Row – Straight Header



Dual Row – Straight Header



Manufacturer's Full Length Headers and Receptacles Available in Multiple Pin Versions

Dim. (mm) A	Digi-Key Part No.	Pricing 1	10	100	NorComp Part No.
Header Single Row Straight – 36 Pins					
70.0	2163S-36-ND	2.80	25.05	206.32	2163-36-01-P2
Header Single Row Right Angle – 36 Pins					
70.0	2163R-36-ND	2.84	25.41	209.26	2163-36-02-P2
Header Dual Row Straight – 72 Pins					
70.0	2164S-36-ND	5.41	48.41	398.63	2164-72-01-P2

Digi-Key's Cut Length to your Specification

Digi-Key Part No.	Base Price	Pin Adder
2163S-XX-ND	1.00	.05
2163R-XX-ND	1.04	.05
2164S-XX-ND	1.45	.11

How to Order 2mm Headers — 4 Easy Steps

Q. How do I order an 2163S header with 16 pins?

A. Call Digi-Key where you'll happily receive the price or determine the cost yourself.

Step 1. Select needed "Digi-Key Part Number" and number of pins desired.

Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart).

Step 3. Multiply the number of pins you desire by "Pin Adder" of your selected Part Number (refer to chart).

Step 4. Add Step 2 and Step 3 together for Final Cost.

2 ❑ ❑ ❑ ❑ - ❑ ❑ - ND

Base Part Number
Number of Desired Pins Per Row

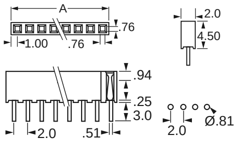
OUR EXAMPLE		*YOUR DIGI-KEY PART NUMBER*	
Step 1.	2163S-16-ND	Step 1.	2 _ _ _ _ - _ _ - ND
Step 2.	1.00	Step 2.	_____
Step 3.	16 x .05 = .80	Step 3.	x = _____
Step 4.	Your Cost = $1.80	Step 4.	Your Cost = _____

NOTE: For Quantities of 10 or More, Call 1-800-DIGI-KEY

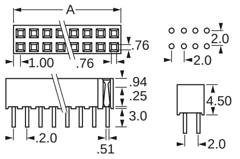
2mm Receptacles

Features: • Printed Circuit Board Mounted Receptacle • .079" (2mm) centers for real estate savings • Single and Dual Row Offerings • 15 microinches selective gold • Insulator, housing, material is glass filled thermoplastic, UL Rating 94VO • Color: Black • Contact material is phosphor bronze

Single Row – Vertical Receptacle



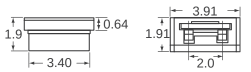
Dual Row – Vertical Receptacle



No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Receptacle Single Row Vertical					
3	2063S-03-ND	1.43	1.28	1.05	2063-03-01-P2
4	2063S-04-ND	1.57	1.41	1.16	2063-04-01-P2
5	2063S-05-ND	1.71	1.53	1.26	2063-05-01-P2
6	2063S-06-ND	1.85	1.66	1.37	2063-06-01-P2
7	2063S-07-ND	2.02	1.82	1.50	2063-07-01-P2
8	2063S-08-ND	2.19	1.97	1.62	2063-08-01-P2
9	2063S-09-ND	2.34	2.10	1.73	2063-09-01-P2
10	2063S-10-ND	2.51	2.25	1.85	2063-10-01-P2
11	2063S-11-ND	2.65	2.38	1.96	2063-11-01-P2
12	2063S-12-ND	2.82	2.53	2.08	2063-12-01-P2
Receptacle Dual Row Vertical					
6	2064S-03-ND	1.88	1.69	1.39	2064-06-01-P2
8	2064S-04-ND	2.19	1.97	1.62	2064-08-01-P2
10	2064S-05-ND	2.51	2.25	1.85	2064-10-01-P2
12	2064S-06-ND	2.82	2.53	2.08	2064-12-01-P2
14	2064S-07-ND	3.14	2.81	2.31	2064-14-01-P2
16	2064S-08-ND	3.45	3.09	2.55	2064-16-01-P2
18	2064S-09-ND	3.79	3.40	2.80	2064-18-01-P2
20	2064S-10-ND	4.10	3.68	3.03	2064-20-01-P2
22	2064S-11-ND	4.42	3.96	3.26	2064-22-01-P2
24	2064S-12-ND	4.76	4.26	3.51	2064-24-01-P2

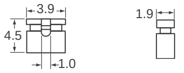
2mm Shunts

Fig. 1



LOW PROFILE: • Housing Material: Glass filled thermoplastic, UL flammability rating 94V-O • Color: Black • Contact Material: High Performance Copper Alloy

Fig. 2



STANDARD PROFILE: • Housing Material: Glass filled thermoplastic, UL flammability rating 94V-O • Color: Black • Contact Material: High Performance Copper Alloy

Fig.	Finish	Digi-Key Part No.	Pricing 1	10	100	500	NorComp Part No.
1	Low Profile, Tin	LP1-006-ND	.23	2.01	16.59	57.28	800-002-LP1-006
	Low Profile, Gold*	LP1-001-ND	.46	4.08	33.60	116.00	800-002-LP1-001
2	Standard Profile, Gold*	SP2-001-ND	.14	1.28	10.50	36.25	800-002-SP2-001

*30µ" gold plated

HIROSE ELECTRIC CO.,LTD.

Power Supply Connectors – PX Series

Features: • Power supply connector for high-current withstands voltage of 2200V AC max. and 10A/contact (60A/6 contacts) of rated current • Housing design prevents incorrect insertion; opening section is designed to prevent reverse insertion and mating direction is easily checked. The opening section is keyed to prevent misalignment of plugs in parallel applications. • Reliable contact structure; three point contact, gold plated contacts (standard) with high-level environmental resistance, contact spring guard structure, structure prevents retainer deformation.

Specifications: • **Temp. Range:** -55°C to +105°C • **Voltage:** AC600V • **Current:** 10A • **Contact Resistance:** 10mΩ max. measured at 100mA • **Insulation Resistance:** 1000MΩ min. measured at DC 500V **Material:** • Contacts: Copper alloy, gold plating • Insulator: PBT resin (UL94V-0) • Metal Fixture: Copper alloy, solder plating

Fig. 1 - Receptacle

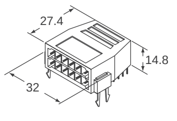
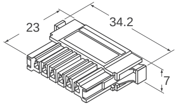
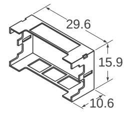


Fig. 2 - Plug



Note: Two plugs are needed for each receptacle.

Fig. 3 - Plug Holder Cover



Note: Cover holds two plugs.

Fig.	No. of Circuits	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	H10068-ND	5.08	4.20	3.50	PX10-AD4WP
	12	H10069-ND	5.42	4.49	3.74	PX10-AF6WP
2	4	H10071-ND	2.02	1.68	1.40	PX50-AD4S
	6	H10072-ND	2.44	2.03	1.69	PX50-AF6S
3	4	H10070-ND	1.82	1.52	1.26	PX-4WS-CV
	6	H10074-ND	2.44	2.03	1.69	PX-6WS-CV
—	Female Terminal, 16-18AWG	H10073-ND	—	.50	.41	PX50-SC-131

Connectors – QR/P1 Series

QR/P1 series connectors are small and compact high 8, 12, 16, 24 and 32 way. Crimp terminals assure density versions of original OR/P series. Available in positive and reliable termination with minimum labor.

Features: • The coupling mechanism assures stable and reliable contact pressure through point and blade contact, in addition to smooth coupling that is sufficiently capable of dealing with variations in the coupling length specific to the plug-in connection. • One opposed pair (in 12 contacts), 2 pairs (in 8, 16, and 24 contacts), and 3 pairs (in 32 contacts) can be used as power supply contacts. They are spaced further apart than the others so as to have enough creeping distance to withstand a high voltage. Fire-retardant insulation materials (UL94-0) are used. • The Guide Pin is made of steel nickel plated to be strong enough against accidental coupling shock. • The mount of a receptacle housing is done through floating bushes. Thus, they may help to give more smooth coupling of connectors by self-adjusting function.

Specifications: • Operating Temp. Range: -10°C to +60°C • **Voltage**: *Power Terminal*: AC 250V; *Signal Terminal:* AC 125V • **Current**: *Power Unit*: 13A max. (AWG 14 use); *Signal Unit*: 3A • **Withstand Voltage**: *Power Terminal*: AC 1000V; *Signal Terminal*: AC 500V • **Insulation Resistance**: 5000M Ω higher at DC 500V • **Contact Resistance**: *Power Unit*: 10m Ω or less at DC1A; *Signal Unit*: 15m Ω or less at DC1A • **Material**: *Insulator*: Polyethylene terephtalate, black; *Terminal*: Phosphor bronze, selective gold plating with nickel underplating

Fig. 1 - Plug Housing

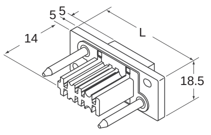


Fig. 2 - Socket Housing

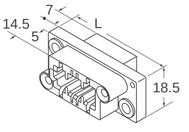


Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	46.4	H10083-ND	4.52	3.75	3.12	QR/P1-8P-C(01)
	12	51	H10075-ND	4.96	4.11	3.42	QR/P1-12P-C(01)
	16	57.6	H10077-ND	5.34	4.42	3.68	QR/P1-16P-C(01)
	24	68.8	H10079-ND	5.77	4.78	3.98	QR/P1-24P-C(01)
	32	85.5	H10081-ND	6.81	5.77	4.85	QR/P1-32P-C(01)
2	8	46.4	H10084-ND	5.25	4.35	3.62	QR/P1-8S-C(01)
	12	51	H10076-ND	5.77	4.78	3.98	QR/P1-12S-C(01)
	16	57.6	H10078-ND	6.18	5.12	4.26	QR/P1-16S-C(01)
	24	68.8	H10080-ND	6.70	5.55	4.62	QR/P1-24S-C(01)
	32	85.5	H10082-ND	7.62	6.45	5.43	QR/P1-32S-C(01)
Male Contact, 14-16AWG			H10086-ND	—	.87	.70	QR/P1-PC1B-121(12)
Male Contact, 18-24AWG			H10085-ND	—	.62	.50	QR/P1-PC1A-111(12)
Female Contact, 14-16AWG			H10090-ND	—	.84	.67	QR/P1-SC1B-121(12)
Female Contact, 18-24AWG			H10089-ND	—	.58	.47	QR/P1-SC1A-111(12)
Male Contact, 20-24AWG			H10088-ND	—	.49	.40	QR/P1-PC2B-121(12)
Male Contact, 24-28AWG			H10087-ND	—	.50	.39	QR/P1-PC2A-111(12)
Female Contact, 20-24AWG			H10092-ND	—	.60	.49	QR/P1-SC2B-121(12)
Female Contact, 24-28AWG			H10091-ND	—	.48	.38	QR/P1-SC2A-111(12)
Hand Crimp Tool for H10086-ND			H10123-ND	770.06	—	—	TC-QR/P1-PC1B
Hand Crimp Tool for H10085-ND			H10122-ND	742.05	—	—	TC-QR/P1-PC1A
Hand Crimp Tool for H10090-ND			H10127-ND	770.06	—	—	TC-QR/P1-SC1B
Hand Crimp Tool for H10089-ND			H10126-ND	737.97	—	—	TC-QR/P1-SC1A
Hand Crimp Tool for H10088-ND			H10125-ND	770.06	—	—	TC-QR/P1-PC2B
Hand Crimp Tool for H10087-ND			H10124-ND	587.29	—	—	TC-QR/P1-PC2A
Hand Crimp Tool for H10092-ND			H10129-ND	770.06	—	—	TC-QR/P1-SC2B
Hand Crimp Tool for H10091-ND			H10128-ND	587.29	—	—	TC-QR/P1-SC2A
Extraction Tool			H10121-ND	10.65	—	—	TC-QR/P1-21

Connectors – QR/P4 and P6 Series

QR/P4 series is a series of small connectors for rack and panel application. This is a smaller rectangular size version of the QR/P and QR/P1 series. Available in 8, 12, 16, 24, 32 and 40 contacts. Wires are connected to the connectors without solder for easier connection and higher reliability.

QR/P6 series are miniaturized versions of the QR/P and QR/P1 series. Rectangular multi-contact rack and panel connectors for plug-in connection. Available in 6, 12, 16, and 24 contacts for highly efficient and reliable crimp termination.

Features: • Offers smooth insertion/extraction and stable contact pressure through point-blade contact, and allows for the deviations in contact length specific to plug-in connection. • Miniaturized by separating power contacts from signal contacts. • Miniaturized using guide pins integral with the insulator. • The connectors of the series have passed UL, CSA and TUV standards.

Applications: • PPC • Transmission, automation, reception and data communication equipment • Vending machines • Measuring instruments • Switch boards

QR/P4 Specifications: • **Operating Temp:** -10°C to +60°C • **Rated Voltage:** *Power:* AC 300V; *Signal:* AC 250V • **Rated Current:** *Power:* 3A; *Signal:* 1A • **Withstand Voltage:** *Power:* AC 2000V; *Signal:* AC 500V • **Insulation Resistance**: Min. 5000M Ω at DC 500V • **Contact Resistance**: *Power*: Max. 15mΩ at DC1A; *Signal:* Max. 15mΩ at DC1A • **Material:** *Insulator:* PBT resin (UL94V-0), Black; *Contact:* Phosphor bronze, Selective gold plated over nickel

QR/P6 Specifications: • **Operating Temp.:** -10°C to +60°C • **Rated Voltage:** AC 120V • **Rated Current:** *Power Terminal:* 10A; *Signal Terminal:* 1A • **Withstand Voltage** (for 1 min.): *Power Unit:* AC 1000V; *Signal Unit:* AC 500V • **Insulation Resistance:** 5000M Ω or less at DC 500V • **Contact Resistance:** *Power Terminal:* 10m Ω or less at DC1A: *Signal Unit:* 15m Ω or less at DC1A • **Materials:** *Insulator:* PBT resin (UL94V-0), Black; *Terminal:* Phosphor bronze, selective gold plating with nickel underplating

Fig. 1 - QR/P4 Male Housing use with QR/P1 Male Contacts

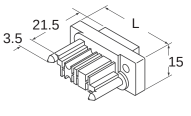


Fig. 2 - QR/P4 Female Housing use with QR/P1 Female Contacts

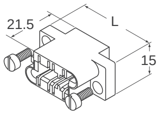


Fig. 3 - QR/P6 Male Housing use with QR/P1 Male Contacts

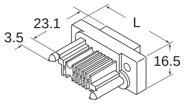


Fig. 4 - QR/P6 Female Housing use with QR/P1 Female Contacts

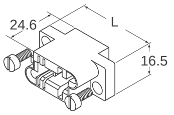


Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
QR/P4 Series							
1	8	34.68	H10103-ND	3.28	2.72	2.26	QR/P4-8P-C(01)
	12	39.8	H10093-ND	4.12	3.41	2.84	QR/P4-12P-C(01)
	16	44.84	H10095-ND	4.96	4.11	3.42	QR/P4-16P-C(01)
	24	55	H10097-ND	5.34	4.42	3.68	QR/P4-24P-C(01)
	32	67.7	H10099-ND	5.77	4.78	3.98	QR/P4-32P-C(01)
	40	77.86	H10101-ND	6.18	5.12	4.26	QR/P4-40P-C(01)
2	8	34.68	H10104-ND	3.68	3.05	2.54	QR/P4-8S-C(01)
	12	39.8	H10094-ND	3.97	3.29	2.74	QR/P4-12S-C(01)
	16	44.84	H10096-ND	5.74	4.76	3.96	QR/P4-16S-C(01)
	24	55	H10098-ND	6.18	5.12	4.26	QR/P4-24S-C(01)
	32	67.7	H10100-ND	6.61	5.48	4.56	QR/P4-32S-C(01)
	40	77.86	H10102-ND	7.02	5.81	4.84	QR/P4-40S-C(01)
QR/P6 Series							
3	6	32.67	H10111-ND	2.99	2.49	2.07	QR/P6-6P-C(01)
	12	41.47	H10105-ND	2.90	2.40	2.00	QR/P6-12P-C(01)
	16	46.55	H10107-ND	2.99	2.49	2.07	QR/P6-16P-C(01)
	24	56.71	H10109-ND	3.28	2.72	2.26	QR/P6-24P-C(01)
4	6	32.67	H10112-ND	3.28	2.72	2.26	QR/P6-6S-C(01)
	12	41.47	H10106-ND	3.42	2.84	2.36	QR/P6-12S-C(01)
	16	46.55	H10108-ND	4.35	3.60	3.00	QR/P6-16S-C(01)
	24	56.71	H10110-ND	4.12	3.41	2.84	QR/P6-24S-C(01)

Connectors – QR/P8 Series

QR/P8 series is a series of small connectors for rack and panel application. This is a smaller rectangular size version of the QR/P and QR/P1 series. Electrodes available are 8, 12 and 20. Wires are connected to the connectors without solder for easier connection and higher reliability.

Features: • The connector of this series is about 20% smaller in length than that of the QR/P4 series with the same number of electrodes. • Wires of AWG 20-28 can be connected with the two pairs of terminals on the two sides, while wires of AWG 24-28 can be connected with the terminals for signals. • The pins give stable contact pressure because of their point contact with the receptacle blades, and have a larger allowance for the variation of connection length. • The connectors have passed UL, CSA and TUV standards.

Application: • PPC • Transmission, automation, reception and data communication equipment • Vending machines • Measuring instruments • Switchboards

Specifications: • **Operating Temp.:** -10°C to 60°C • **Withstand Voltage** (for 1 min.): *Power Supply*: AC 2000V; *Signal Unit*: AC 500V • **Insulation Resistance:** 1000M Ω or less at DC 500V • **Contact Resistance:** 30m Ω or less at DC1A • **Material:** *Insulator:* Polycarbonate resin UL94V-0, Black; *Contact:* Phosphor bronze, selective gold plated over nickel

Fig. 1 - Male Housing

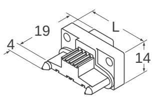


Fig. 2 - Female Housing

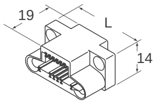


Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	27	H10116-ND	2.80	2.33	1.94	QR/P8-8P-C(01)
	12	31	H10002-ND	2.90	2.40	2.00	QR/P8-12P-C(01)
	20	39	H10114-ND	3.42	2.84	2.36	QR/P8-20P-C(01)
2	8	27	H10117-ND	2.93	2.43	2.02	QR/P8-8S-C(01)
	12	31	H10113-ND	3.28	2.72	2.26	QR/P8-12S-C(01)
	20	39	H10115-ND	3.83	3.17	2.64	QR/P8-20S-C(01)
Male Contact, 20-24AWG			H10118-ND	—	.24	.20	QR/P8-PC-111
Female Contact, 20-24AWG			H10119-ND	—	.24	.20	QR/P8-SC-111
Male Contact, 24-28AWG			H10003-ND	—	.24	.20	QR/P8-PC-121
Female Contact, 24-28AWG			H10120-ND	—	.24	.20	QR/P8-SC-121

EH 2.5mm Disconnectable Crimp Style Connectors

Features: Compact and Slim: This connector is designed to be compact and unusually thin. It measures only 8.1mm (.319") high after mounting and is just 3.8mm (.150") wide. **Highly Reliable Contact:** The contact has long dimples near the center that ensure continuity of low voltage and low current circuits at all times, even under conditions of vibration and abusive prying. **Polarizing Guides:** The header and housing have guides to prevent improper mating. **Whisker Prevention:** The contact material is treated with a reflow process, and the square post is copper-undercoated and tin/lead-plated for whisker prevention. **Easy and Effective Crimping:** Although the contact is compact, it has a long wire strip length, 2.6 ± 0.4mm (.102" ± .016"). This long length is very useful for automatic crimping and when crimping shielded wires.

Specifications: Current Rating: 3A AC, DC (AWG 22). **Voltage Rating:** 250V AC, DC. **Temp. Range:** -25°C to +85°C.

Material and Finish: Contact: Phosphor bronze, tin-plated; Housing: Nylon 66, UL94V-0, natural (white); Posts for Headers: Brass, copper-undercoated, tin/lead plated; Wafer: Nylon 66, UL94V-0, natural (white).

Applicable Wire: AWG 32 to 22. **Applicable PC Board Thickness:** 0.8 to 1.6mm (.031" to .063").

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Fig. 1 - Disconnectable Crimp Connectors

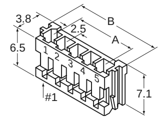


Fig. 2 - Top Entry Shrouded Headers

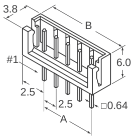


Fig. 3 - Side Entry Shrouded Headers

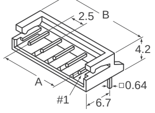


Fig.	Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Disconnectable Crimp Style Female Receptacle Housing								
1	2	2.5	7.0	455-1000-ND	.38	3.16	12.63	EHR-2
	3	5.0	9.5	455-1001-ND	.42	3.50	13.98	EHR-3
	4	7.5	12.0	455-1002-ND	.43	3.56	14.25	EHR-4
	5	10.0	14.5	455-1003-ND	.48	3.97	15.86	EHR-5
	6	12.5	17.0	455-1004-ND	.52	4.30	17.20	EHR-6
	7	15.0	19.5	455-1005-ND	.60	4.97	19.89	EHR-7
	8	17.5	22.0	455-1006-ND	.62	5.18	20.70	EHR-8
	9	20.0	24.5	455-1007-ND	.89	7.39	29.57	EHR-9
	10	22.5	27.0	455-1008-ND	.94	7.80	31.18	EHR-10
	11	25.0	29.5	455-1009-ND	1.16	9.68	38.71	EHR-11
	12	27.5	32.0	455-1010-ND	1.40	11.69	46.77	EHR-12
	13	30.0	34.5	455-1011-ND	1.48	12.37	49.46	EHR-13
	14	32.5	37.0	455-1012-ND	1.89	15.73	62.90	EHR-14
	15	35.0	39.5	455-1013-ND	1.94	16.20	64.78	EHR-15
Crimp Contact 22-30 AWG				455-1042-1-ND	—	3.14	13.86	SEH-001T-P0.6
Crimp Contact 22-30 AWG				455-1042-2-ND		135.00/9,000		SEH-001T-P0.6
Crimp Tool for 22-30 AWG Contacts				455-1043-ND		367.01 Each		WC-260
Top Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housings)								
2	2	2.5	7.5	455-1014-ND•	.66	5.49	21.95	B2B-EH-A
	3	5.0	10.0	455-1015-ND•	.89	7.45	29.79	B3B-EH-A
	4	7.5	12.5	455-1016-ND•	1.18	9.80	39.20	B4B-EH-A
	5	10.0	15.0	455-1017-ND•	1.40	11.71	46.82	B5B-EH-A
	6	12.5	17.5	455-1018-ND•	1.69	14.06	56.22	B6B-EH-A
	7	15.0	20.0	455-1019-ND•	1.92	15.96	63.84	B7B-EH-A
	8	17.5	22.5	455-1020-ND•	2.17	18.09	72.35	B8B-EH-A
	9	20.0	25.0	455-1021-ND•	2.41	20.11	80.42	B9B-EH-A
	10	22.5	27.5	455-1022-ND•	2.81	23.41	93.63	B10B-EH-A
	11	25.0	30.0	455-1023-ND•	3.10	25.82	103.26	B11B-EH-A
	12	27.5	32.5	455-1024-ND•	3.23	26.88	107.52	B12B-EH-A
	13	30.0	35.0	455-1025-ND•	3.82	31.87	127.46	B13B-EH-A
	14	32.5	37.5	455-1026-ND•	4.14	34.50	137.98	B14B-EH-A
	15	35.0	40.0	455-1027-ND•	4.37	36.40	145.60	B15B-EH-A
Side Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housings)								
3	2	2.5	7.5	455-1028-ND	.79	6.55	26.21	S2B-EH
	3	5.0	10.0	455-1029-ND	.94	7.84	31.36	S3B-EH
	4	7.5	12.5	455-1030-ND	1.12	9.30	37.18	S4B-EH
	5	10.0	15.0	455-1031-ND	1.46	12.15	48.61	S5B-EH
	6	12.5	17.5	455-1032-ND	1.81	15.12	60.48	S6B-EH
	7	15.0	20.0	455-1033-ND	2.15	17.92	71.68	S7B-EH
	8	17.5	22.5	455-1034-ND	2.52	21.00	84.00	S8B-EH
	9	20.0	25.0	455-1035-ND	2.69	22.40	89.60	S9B-EH
	10	22.5	27.5	455-1036-ND	3.31	27.61	110.43	S10B-EH
	11	25.0	30.0	455-1037-ND	3.67	30.58	122.30	S11B-EH
	12	27.5	32.5	455-1038-ND	3.88	32.37	129.47	S12B-EH
	13	30.0	35.0	455-1039-ND	4.79	39.93	159.71	S13B-EH
	14	32.5	37.5	455-1040-ND	5.09	42.45	169.79	S14B-EH
	15	35.0	40.0	455-1041-ND	5.48	45.70	182.78	S15B-EH

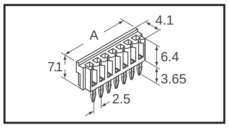
• Not TUV approved

Miscellaneous Crimp Contacts and Crimp Tools

Contact Material	Contact Finish	AWG	Digi-Key Part No.	Pricing 1	100	500	T & R* Pricing	JST Part No.
VH/NV Series Crimp Contacts								
Brass	Tin-Plated	18-22	455-1132-1-ND	—	6.86	30.24	144.00/4,500	SVH-21T-1.1
Phosphor Bronze	Tin-Plated	18-22	455-1133-1-ND	—	7.62	33.60	162.00/4,500	SVH-21T-P1.1
Crimp Tool 18-22 AWG VH/NV Contacts			455-1134-ND	367.01	—	—	—	WC-160
XH Series Crimp Contacts								
Phosphor Bronze	Tin-Plated	22-28	455-1135-1-ND	—	5.00	22.05	192.00/8,000	SXH-001T-P0.6
Crimp Tool 22-28 AWG XH Contacts			455-1136-ND	367.01	—	—	—	WC-110
SAN Series Crimp Contacts								
Brass	Tin-Plated	24-30	455-1142-1-ND	—	3.14	13.86	210.00/14,000	SAN-002T-0.8K
Crimp Tool 24-30 AWG SAN Contacts			455-1143-ND	821.79	—	—	—	YRS-220

*For Tape and Reel part number change "-1" to "-2".

DB 2.5mm Board-In IDC Connectors



Features: Compact and Low Profile: This is a low profile connector with a mounting height of 7.1mm (.280") and a width of 4.1mm (.161"). **Twin U-Slot Insulation Displacement Section:** The insulation displacement section connected to the wire consists of two tin-plated slots (twin U-slot) for superb reliability. **Locking Solder Tail:** The contact's compliant solder tail has two locking positions, both of which ensure stable connection once inserted into a printed circuit board. This makes insertion into printed circuit boards easy and reliable. **Strain Relief:** The strain relief feature prevents stress due to vibration, impact or bending from effecting the insulation displacement connection. This is accomplished by holding the outside of the wire with the insulation gripping device on the housing.

Specifications: Current Rating: 2A AC, DC (AWG 24). **Voltage Rating:** 250V AC, DC. **Temp. Range:** -25°C to +85°C.

Material and Finish: Contact: Phosphor bronze, copper-undercoated, tin/lead-plated; Housing: Nylon 66, UL94V-0.

Applicable Wire: UL1007 (Contact JST for details regarding other UL wires.) AWG 28, 26, 24. Conductor/7 strands, tin-coated. Insulation O.D/1.0 to 1.4mm (.039" to .055"). **Applicable PC Board Thickness:** 1.6mm (.063")

Cir-cuits	Color	AWG	Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
2	Green	28	7.5	455-1070-ND	.17	1.31	10.92	02DB-8M
3			10.0	455-1071-ND	.24	1.80	15.01	03DB-8M
4			12.5	455-1072-ND	.33	2.45	20.39	04DB-8M
5			13.0	455-1073-ND	.38	2.86	23.80	05DB-8M
6			17.5	455-1074-ND	.47	3.49	29.07	06DB-8M
7			20.0	455-1075-ND	.54	4.02	33.52	07DB-8M
8			22.5	455-1076-ND	.61	4.56	37.97	08DB-8M
9			25.0	455-1077-ND	.68	5.12	42.67	09DB-8M
10			27.5	455-1078-ND	.77	5.78	48.16	10DB-8M
11			30.0	455-1079-ND	.86	6.48	53.99	11DB-8M
12			32.5	455-1080-ND	.92	6.89	57.40	12DB-8M
13			35.0	455-1081-ND	1.23	9.20	76.67	13DB-8M
2	White	26	7.5	455-1082-ND	.16	1.23	10.25	02DB-6S
3			10.0	455-1083-ND	.23	1.71	14.28	03DB-6S
4			12.5	455-1084-ND	.31	2.33	19.43	04DB-6S
5			13.0	455-1085-ND	.37	2.76	22.96	05DB-6S
6			17.5	455-1086-ND	.45	3.39	28.28	06DB-6S
7			20.0	455-1087-ND	.52	3.92	32.65	07DB-6S
8			22.5	455-1088-ND	.60	4.51	37.58	08DB-6S
9			25.0	455-1089-ND	.67	5.01	41.78	09DB-6S
10			27.5	455-1090-ND	.74	5.58	46.48	10DB-6S
11			30.0	455-1091-ND	.84	6.32	52.64	11DB-6S
12			32.5	455-1092-ND	.90	6.73	56.06	12DB-6S
13			35.0	455-1093-ND	1.22	9.13	76.11	13DB-6S
2	Black	24	7.5	455-1094-ND	.17	1.31	10.92	02DB-4K
3			10.0	455-1095-ND	.24	1.80	15.01	03DB-4K
4			12.5	455-1096-ND	.33	2.45	20.39	04DB-4K
5			13.0	455-1097-ND	.38	2.86	23.80	05DB-4K
6			17.5	455-1098-ND	.45	3.37	28.11	06DB-4K
7			20.0	455-1099-ND	.53	3.96	33.04	07DB-4K
8			22.5	455-1100-ND	.61	4.57	38.08	08DB-4K
9			25.0	455-1101-ND	.68	5.12	42.67	09DB-4K
10			27.5	455-1102-ND	.77	5.78	48.16	10DB-4K
11			30.0	455-1103-ND	.86	6.48	53.99	11DB-4K
12			32.5	455-1104-ND	.92	6.89	57.40	12DB-4K
13			35.0	455-1105-ND	1.23	9.20	76.67	13DB-4K

HR 2.5mm IDC Receptacles

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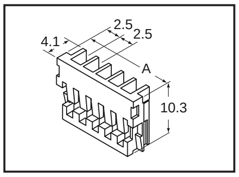


Features: Twin U-slot Insulation Displacement Section: The insulation displacement section has reliable twin U-slots like those of JST's other insulation displacement connectors. **Ultra Thin Design:** The connector is very small, with a mounting height of 11.3mm (.445") and a width of 4.1mm (.161"). **High Reliability:** The contact has a dimple where it mates with the post to ensure a continuous gas tight connection when used for circuits requiring minute amounts of current and voltage. In addition, it is built to withstand vibration and prevent deformation. **Strain Relief:** A metallic strain relief secures the wire so as to protect the insulation displacement connection against vibration, impact and other external forces. **Interchangeability:** The shrouded header is interchangeable with the 2.5mm (.098") pitch crimp style EH connectors.

Specifications: Current Rating: 2A AC, DC (AWG 24). **Voltage Rating:** 250V AC, DC. **Temp. Range:** -25°C to +85°C.

Material and Finish: Contact: Phosphor Bronze, Tin-Plated. Housing: Nylon 66, UL94V-0.

Applicable Wire: UL1007 (Contact JST for details regarding other UL wires.) AWG 26, 24. Conductor/7 strands, tin-coated. Insulation O.D/1.0 to 1.5mm (.039" to .059"). **Applicable PC Board Thickness:** 0.8 to 1.6mm (.031" to .063").

Cir-cuits	Color	AWG	Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
2	White	26	7.5	455-1044-ND	.20	1.47	12.27	02HR-6S
3			10.0	455-1045-ND	.24	1.83	15.23	03HR-6S
4			12.5	455-1046-ND	.30	2.24	18.65	04HR-6S
5			15.0	455-1047-ND	.39	2.90	24.19	05HR-6S
6			17.5	455-1048-ND	.43	3.25	27.05	06HR-6S
7			20.0	455-1049-ND	.49	3.69	30.75	07HR-6S
8			22.5	455-1050-ND	.56	4.18	34.83	08HR-6S
9			25.0	455-1051-ND	.63	4.70	39.20	09HR-6S
10			27.5	455-1052-ND	.70	5.27	43.91	10HR-6S
11			30.0	455-1053-ND	.76	5.69	47.38	11HR-6S
12			32.5	455-1054-ND	.80	6.02	50.18	12HR-6S
13			35.0	455-1055-ND	.87	6.49	54.10	13HR-6S
15			40.0	455-1056-ND†	.99	7.43	61.94	15HR-6S
2	Black	24	7.5	455-1057-ND	.20	1.52	12.66	02HR-4K
3			10.0	455-1058-ND	.25	1.90	15.79	03HR-4K
4			12.5	455-1059-ND	.31	2.32	19.32	04HR-4K
5			15.0	455-1060-ND	.40	3.00	25.03	05HR-4K
6			17.5	455-1061-ND	.45	3.38	28.17	06HR-4K
7			20.0	455-1062-ND	.51	3.85	32.09	07HR-4K
8			22.5	455-1063-ND	.58	4.35	36.29	08HR-4K
9			25.0	455-1064-ND	.65	4.89	40.77	09HR-4K
10			27.5	455-1065-ND	.73	5.48	45.70	10HR-4K
11			30.0	455-1066-ND	.79	5.93	49.39	11HR-4K
12			32.5	455-1067-ND	.84	6.27	52.25	12HR-4K
13			35.0	455-1068-ND	.90	6.77	56.39	13HR-4K
15			40.0	455-1069-ND†	1.03	7.76	64.68	15HR-4K

† Not UL recognized nor CSA certified.

AMP tyco Electronics
Authorized Distributor

MTA .100” (2.54mm) Receptacles and Post Headers

IDC RECEPTACLES: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contact • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association

PERFORMANCE DATA: Voltage Rating: 250 vac. **Current Rating:** 4 amp max. **Low-Level Resistance:** 5 mΩ max. initial **Dielectric Withstanding Voltage:** 750 vac./1 min. **Insulation Resistance:** 5000 MΩ min. initial. **Operating Temperature:** -55°C to +105°C**. MATERIAL AND FINISH: Receptacles:** UL94V-2 rated (unless otherwise noted), type 6/6 nylon (28 AWG - Green; 26 AWG - Blue; 24 AWG - White; 22 AWG - Red). **Contacts:** Phosphor bronze, post tin plated, 30µ.

REPLACEMENT IDC CONTACTS: MATERIAL AND FINISH: Phosphor bronze, post tin plated; 30µ.

CST-100 CRIMP CONTACTS AND HOUSINGS: • High current rating • Mates with MTA and similar competitive notched headers • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189. **PERFORMANCE DATA: Voltage Rating:** 250 vac. **Current Rating:** 4 amp max. **Low-Level Resistance:** 6 mΩ max. initial, 10 mΩ max. final. **Insulation Resistance:** 1000 MΩ min. initial, 100 MΩ min. final. **Operating Temperature:** -55°C to +105°C**. MATERIAL AND FINISH:** Selective gold, 30µ gold over 127µ nickel or bright tin-lead on entire contact. **Wire Range:** 22-26 AWG. **Max. Ins. Diameter:** .065

KEYING PLUG WITH CARRIER STRIP (10 plugs per strip): Material: UL94V-2 rated, type 6/6 nylon, natural color

LED CONNECTORS: Designed to mate with .36mm-.51mm diameter posts or square leads. **MATERIAL AND FINISH: Receptacles:** UL94V-2 rated, type 6/6 nylon (28 AWG - Green; 26 AWG - Blue; 24 AWG - White; 22 AWG - Red). **Contacts:** Phosphor bronze, post tin plated, 30µ.

REPLACEMENT LED CONTACTS: MATERIAL AND FINISH: Phosphor bronze, post tin plated; 30µ.

POST HEADERS: Material For Housing: Polyester UL94V-0 rated, natural. **Posts:** Tin plated copper alloy.

Fig. 1 Receptacle

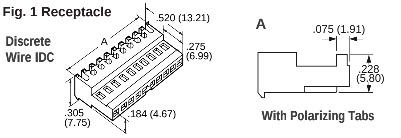


Fig. 2 IDC & LED Contacts

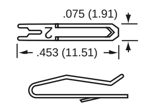


Fig. 3 CST-100 Housing

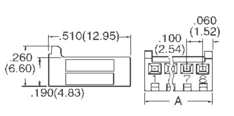


Fig. 4 CST-100 Crimp Contact

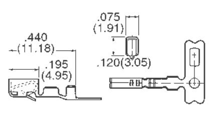


Fig. 5 Keying Plug

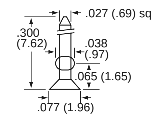


Fig. 6 Strain Relief Cover - Closed End

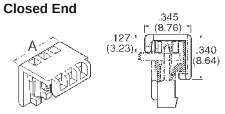


Fig. 7 Dust Cover - Closed End

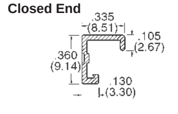


Fig. 8 Strain Relief Cover - Feed-Thru

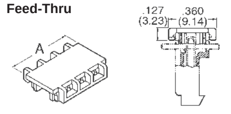


Fig. 9 Dust Cover - Feed-Thru

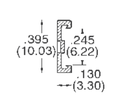


Fig. 10

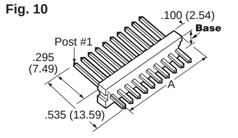


Fig. 11

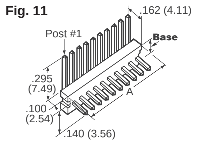


Fig. 12

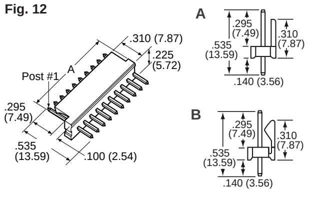


Fig. 13

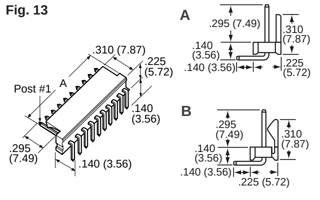


Fig. 14

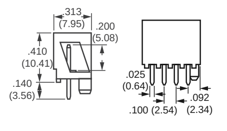


Fig. 15

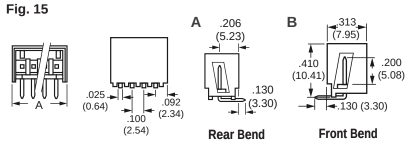


Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Receptacles, .100” (2.54mm) Centers							
1	Closed End with Lock, w/out Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A19050-ND	.12	.06	640443-2
		3	.300 (7.62)	A19051-ND	.12	.07	640443-3
		4	.400 (10.16)	A19052-ND	.20	.12	640443-4
		5	.500 (12.70)	A19053-ND	.26	.15	640443-5
		6	.600 (15.24)	A19054-ND	.28	.16	640443-6
		7	.700 (17.78)	A19055-ND	.33	.18	640443-7
		8	.800 (20.32)	A19056-ND	.37	.21	640443-8
		9	.900 (22.86)	A19057-ND	.92	.83	640443-9
		10	1.000 (25.40)	A19058-ND	.46	.26	1-640443-0
		11	1.100 (27.94)	A19059-ND	1.12	1.01	1-640443-1
		12	1.200 (30.48)	A19060-ND	.60	.33	1-640443-2
		13	1.300 (33.02)	A19061-ND	1.33	1.20	1-640443-3
		14	1.400 (35.56)	A19062-ND	1.43	1.29	1-640443-4
		15	1.500 (38.1)	A26193-ND	.98	.89	1-640443-5
1A	Closed End with Lock, with Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A23773-ND	.12	.10	643816-2
		3	.300 (7.62)	A23774-ND	.14	.12	643816-3
		4	.400 (10.16)	A23775-ND	.20	.19	643816-4
		5	.500 (12.7)	A23776-ND	.26	.24	643816-5
		6	.600 (15.24)	A23777-ND	.28	.26	643816-6
		7	.700 (17.78)	A23778-ND	.33	.30	643816-7
		8	.800 (20.32)	A23779-ND	.37	.34	643816-8
		10	1.00 (25.4)	A23780-ND	.46	.42	1-643816-0
		12	1.200 (30.48)	A23781-ND	.60	.54	1-643816-2
		15	1.500 (38.1)	A23782-ND	.98	.89	1-643816-5
1	Feed-Thru with Lock, w/out Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A19132-ND	.20	.10	640623-2
		3	.300 (7.62)	A19133-ND	.19	.11	640623-3
		4	.400 (10.16)	A19134-ND	.20	.12	640623-4
		5	.500 (12.70)	A19135-ND	.26	.15	640623-5
		6	.600 (15.24)	A19136-ND	.28	.16	640623-6
		7	.700 (17.78)	A19137-ND	.33	.18	640623-7
		8	.800 (20.32)	A19138-ND	.37	.21	640623-8
		9	.900 (22.86)	A19139-ND	.92	.83	640623-9
		10	1.000 (25.40)	A19140-ND	.46	.26	1-640623-0
		11	1.100 (27.94)	A19141-ND	1.12	1.01	1-640623-1
		12	1.200 (30.48)	A19142-ND	.60	.33	1-640623-2
		13	1.300 (33.02)	A19143-ND	1.33	1.20	1-640623-3
		14	1.400 (35.56)	A19144-ND	1.43	1.29	1-640623-4
		15	1.500 (38.1)	A26194-ND	.98	.89	1-640623-5
1A	Feed-Thru with Lock, with Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A23783-ND	.17	.16	644565-2
		3	.300 (7.62)	A23784-ND	.19	.17	644565-3
		4	.400 (10.16)	A23785-ND	.20	.19	644565-4
		5	.500 (12.7)	A23786-ND	.26	.24	644565-5
		6	.600 (15.24)	A23787-ND	.28	.26	644565-6
		7	.700 (17.78)	A23788-ND	.33	.30	644565-7
		8	.800 (20.32)	A23789-ND	.37	.34	644565-8
		10	1.00 (25.4)	A23790-ND	.46	.42	1-644565-0
		12	1.200 (30.48)	A23791-ND	.60	.54	1-644565-2
		15	1.500 (38.1)	A23792-ND	.98	.89	1-644565-5
1	Closed End with Lock, w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A19030-ND	.12	.06	640442-2
		3	.300 (7.62)	A19031-ND	.12	.07	640442-3
		4	.400 (10.16)	A19032-ND	.20	.12	640442-4
		5	.500 (12.70)	A19033-ND	.26	.15	640442-5
		6	.600 (15.24)	A19034-ND	.28	.16	640442-6
		7	.700 (17.78)	A19035-ND	.33	.18	640442-7
		8	.800 (20.32)	A19036-ND	.37	.21	640442-8
		9	.900 (22.86)	A19037-ND	.92	.83	640442-9
		10	1.000 (25.40)	A19038-ND	.46	.26	1-640442-0
		11	1.100 (27.94)	A19039-ND	1.12	1.01	1-640442-1
		12	1.200 (30.48)	A19040-ND	.60	.33	1-640442-2
		13	1.300 (33.02)	A19041-ND	1.33	1.20	1-640442-3
		13	1.300 (33.02)	A26195-ND†	.75	.68	1-643828-3
		14	1.400 (35.56)	A19042-ND	1.43	1.29	1-640442-4
		15	1.500 (38.1)	A26196-ND	.98	.89	1-640442-5
1A	Closed End with Lock, with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A23793-ND	.12	.10	643815-2
		3	.300 (7.62)	A23794-ND	.14	.12	643815-3
		4	.400 (10.16)	A23795-ND	.20	.19	643815-4
		5	.500 (12.7)	A23796-ND	.26	.24	643815-5
		6	.600 (15.24)	A23797-ND	.28	.26	643815-6
		7	.700 (17.78)	A23798-ND	.33	.30	643815-7
		8	.800 (20.32)	A23799-ND	.37	.34	643815-8
		10	1.00 (25.4)	A23800-ND	.46	.42	1-643815-0
		12	1.200 (30.48)	A23801-ND	.60	.54	1-643815-2
		13	1.300 (33.02)	A23802-ND†	.75	.68	1-644313-3
		15	1.500 (38.1)	A23803-ND	.98	.89	1-643815-5
1	Feed-Thru with Lock, w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A19112-ND	.20	.10	640622-2
		3	.300 (7.62)	A19113-ND	.19	.11	640622-3
		4	.400 (10.16)	A19114-ND	.20	.12	640622-4
		5	.500 (12.70)	A19115-ND	.26	.15	640622-5
		6	.600 (15.24)	A19116-ND	.28	.16	640622-6
		7	.700 (17.78)	A19117-ND	.33	.18	640622-7
		8	.800 (20.32)	A19118-ND	.37	.21	640622-8
		9	.900 (22.86)	A19119-ND	.92	.83	640622-9
		10	1.000 (25.40)	A19120-ND	1.02	.92	1-640622-0
		11	1.100 (27.94)	A19121-ND	1.12	1.01	1-640622-1
		12	1.200 (30.48)	A19122-ND	.60	.33	1-640622-2
		13	1.300 (33.02)	A19130-ND	1.33	1.20	1-640622-3
		13	1.300 (33.02)	A26197-ND†	.75	.68	1-644577-3
		14	1.400 (35.56)	A19131-ND	1.43	1.29	1-640622-4
		15	1.500 (38.1)	A26198-ND	.98	.89	1-640622-5
1A	Feed-Thru with Lock, with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A23804-ND	.17	.16	644564-2
		3	.300 (7.62)	A23805-ND	.19	.18	644564-3
		4	.400 (10.16)	A23806-ND	.20	.19	644564-4
		5	.500 (12.7)	A23807-ND	.26	.24	644564-5
		6	.600 (15.24)	A23808-ND	.28	.26	644564-6
		7	.700 (17.78)	A23809-ND	.33	.30	644564-7
		8	.800 (20.32)	A23810-ND	.37	.34	644564-8
		12	1.200 (30.48)	A23811-ND	.60	.54	1-644564-2
		13	1.300 (33.02)	A23812-ND†	.75	.68	1-644497-3
		15	1.500 (38.1)	A23813-ND	.98	.89	1-644564-5
1	Closed End with Lock, w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A1901-ND	.12	.06	640441-2
		3	.300 (7.62)	A19020-ND	.12	.07	640441-3
		4	.400 (10.16)	A1902-ND	.12	.07	640441-4
		5	.500 (12.70)	A19021-ND	.26	.15	640441-5
		6	.600 (15.24)	A1903-ND	.28	.16	640441-6
		7	.700 (17.78)	A19022-ND	.33	.18	640441-7
		8	.800 (20.32)	A1904-ND	.37	.21	640441-8
		9	.900 (22.86)	A19023-ND	.92	.83	640441-9
		10	1.000 (25.40)	A1905-ND	.46	.26	1-640441-0
		11	1.100 (27.94)	A19024-ND	1.12	1.01	1-640441-1
		12	1.200 (30.48)	A19025-ND	.60	.33	1-640441-2
		13	1.300 (33.02)	A19026-ND	1.33	1.20	1-640441-3
		13	1.300 (33.02)	A26199-ND†	.75	.68	1-644574-3
		14	1.400 (35.56)	A19027-ND	1.43	1.29	1-640441-4
		15	1.500 (38.1)	A23767-ND	.98	.89	1-640441-5
1A	Closed End with Lock, with Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A23814-ND	.12	.10	643814-2
		3	.300 (7.62)	A23815-ND	.14	.12	643814-3
		4	.400 (10.16)	A23816-ND	.20	.19	643814-4
		5	.500 (12.7)	A23817-ND	.26	.24	643814-5
		6	.600 (15.24)	A23818-ND	.28	.26	643814-6
		7	.700 (17.78)	A23819-ND	.33	.30	643814-7
		8	.800 (20.32)	A23820-ND	.37	.34	643814-8
		10	1.00 (25.4)	A23821-ND	.46	.42	1-643814-0
		12	1.200 (30.48)	A23822-ND	.60	.54	1-643814-2
		13	1.300 (33.02)	A23823-ND†	.75	.68	1-644312-3
		15	1.500 (38.1)	A23824-ND	.98	.89	1-643814-5

† UL94V-0 – Black Housing

(Continued)

MTA .100” (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
1	Feed-Thru with Lock, w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A19091-ND	.19	.10	640621-2
		3	.300 (7.62)	A19092-ND	.19	.11	640621-3
		4	.400 (10.16)	A19093-ND	.20	.12	640621-4
		5	.500 (12.70)	A19094-ND	.26	.15	640621-5
		6	.600 (15.24)	A19095-ND	.28	.16	640621-6
		7	.700 (17.78)	A19096-ND	.33	.18	640621-7
		8	.800 (20.32)	A19097-ND	.37	.21	640621-8
		9	.900 (22.86)	A19098-ND	1.77	1.59	640621-9
		10	1.000 (25.40)	A19099-ND	.46	.26	1-640621-0
		11	1.100 (27.94)	A19100-ND	1.12	1.01	1-640621-1
		12	1.200 (30.48)	A19101-ND	.60	.33	1-640621-2
		13	1.300 (33.02)	A19110-ND	1.33	1.20	1-640621-3
		13	1.300 (33.02)	A23768-ND†	.75	.68	1-644576-3
		14	1.400 (35.56)	A19111-ND	1.43	1.29	1-640621-4
		15	1.500 (38.1)	A23769-ND	.98	.89	1-640621-5
1A	Feed-Thru with Lock, w/ Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A23826-ND	.17	.16	644563-2
		3	.300 (7.62)	A23827-ND	.18	.17	644563-3
		4	.400 (10.16)	A23828-ND	.20	.19	644563-4
		5	.500 (12.7)	A23829-ND	.26	.24	644563-5
		6	.600 (15.24)	A23830-ND	.28	.26	644563-6
		7	.700 (17.78)	A23831-ND	.33	.30	644563-7
		8	.800 (20.32)	A23832-ND	.37	.34	644563-8
		10	1.00 (25.4)	A23833-ND	.46	.42	1-644563-0
		12	1.200 (30.48)	A23834-ND	.60	.54	1-644563-2
		13	1.300 (33.02)	A23835-ND†	.75	.68	1-644579-3
		15	1.500 (38.1)	A23836-ND	.98	.89	1-644563-5
1	Closed End with Lock, w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A1906-ND	.12	.06	640440-2
		3	.300 (7.62)	A19010-ND	.12	.07	640440-3
		4	.400 (10.16)	A1907-ND	.20	.12	640440-4
		5	.500 (12.70)	A19011-ND	.26	.15	640440-5
		6	.600 (15.24)	A1908-ND	.28	.16	640440-6
		7	.700 (17.78)	A19012-ND	.33	.18	640440-7
		8	.800 (20.32)	A1909-ND	.37	.21	640440-8
		9	.900 (22.86)	A19013-ND	.92	.83	640440-9
		10	1.000 (25.40)	A1910-ND	.46	.26	1-640440-0
		11	1.100 (27.94)	A19014-ND	1.12	1.01	1-640440-1
		12	1.200 (30.48)	A19015-ND	.60	.33	1-640440-2
		13	1.300 (33.02)	A19016-ND	1.33	1.20	1-640440-3
		14	1.400 (35.56)	A19017-ND	1.43	1.29	1-640440-4
		15	1.500 (38.1)	A23770-ND	.98	.89	1-640440-5
1A	Closed End with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A23837-ND	.12	.10	643813-2
		2	.200 (5.08)	A29084-ND†	.32	.30	644083-2
		3	.300 (7.62)	A29085-ND†	.81	.73	644083-3
		4	.400 (10.16)	A23838-ND	.20	.19	643813-4
		5	.500 (12.7)	A23839-ND	.26	.24	643813-5
		7	.700 (17.78)	A23840-ND	.33	.30	643813-7
		8	.800 (20.32)	A23841-ND	.37	.34	643813-8
		10	1.00 (25.4)	A23842-ND	.46	.42	1-643813-0
		11	1.100 (27.94)	A23843-ND	2.16	1.95	1-643813-1
		12	1.200 (30.48)	A23844-ND	.60	.54	1-643813-2
		13	1.300 (33.02)	A23845-ND†	.75	.68	1-644083-3
		15	1.500 (38.1)	A23846-ND	.98	.89	1-643813-5
1	Feed-Thru with Lock, w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A19070-ND	.20	.10	640620-2
		3	.300 (7.62)	A19071-ND	.19	.11	640620-3
		4	.400 (10.16)	A19072-ND	.20	.12	640620-4
		5	.500 (12.70)	A19073-ND	.26	.15	640620-5
		6	.600 (15.24)	A19074-ND	.28	.16	640620-6
		7	.700 (17.78)	A19075-ND	.33	.18	640620-7
		8	.800 (20.32)	A19076-ND	.37	.21	640620-8
		9	.900 (22.86)	A19077-ND	.92	.83	640620-9
		10	1.000 (25.40)	A19078-ND	.46	.26	1-640620-0
		11	1.100 (27.94)	A19079-ND	1.12	1.01	1-640620-1
		12	1.200 (30.48)	A19080-ND	.60	.33	1-640620-2
		13	1.300 (33.02)	A19081-ND	1.33	1.20	1-640620-3
		13	1.300 (33.02)	A23771-ND†	.75	.68	1-644575-3
		14	1.400 (35.56)	A19090-ND	1.43	1.29	1-640620-4
		15	1.500 (38.1)	A23772-ND	.98	.89	1-640620-5
1A	Feed-Thru with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A23847-ND	.17	.16	644540-2
		3	.300 (7.62)	A23848-ND	.19	.18	644540-3
		4	.400 (10.16)	A23849-ND	.20	.19	644540-4
		5	.500 (12.7)	A23850-ND	.26	.24	644540-5
		6	.600 (15.24)	A23851-ND	.28	.26	644540-6
		7	.700 (17.78)	A23852-ND	.33	.30	644540-7
		8	.800 (20.32)	A23853-ND	.37	.34	644540-8
		10	1.00 (25.4)	A23854-ND	.46	.42	1-644540-0
		12	1.200 (30.48)	A23855-ND	.60	.54	1-644540-2
		13	1.300 (33.02)	A23856-ND†	.75	.68	1-644578-3
		15	1.500 (38.1)	A23857-ND	.98	.89	1-644540-5
Replacement IDC Contacts							
2	Std. 28 AWG, Tin Plated	—	—	A19313-ND	1.40/25	2.49/50	640639-1
	Std. 26 AWG, Tin Plated	—	—	A19290-ND	1.58/25	2.81/50	640638-2
	Std. 24 AWG, Tin Plated	—	—	A19312-ND	1.58/25	2.81/50	640637-1
	Std. 22 AWG, Tin Plated	—	—	A19311-ND	1.58/25	2.81/50	640636-1
CST-100 Crimp Housings (Contacts Sold Separately)							
3	22-26 AWG White	2	.220 (5.59)	A19490-ND	.26	.11	770602-2
		3	.320 (8.13)	A19491-ND	.27	.17	770602-3
		4	.420 (10.67)	A19492-ND	.28	.22	770602-4
		5	.520 (13.21)	A19493-ND	.30	.28	770602-5
		6	.620 (15.75)	A19494-ND	.36	.33	770602-6
		7	.720 (18.29)	A19495-ND	.42	.39	770602-7
		8	.820 (20.83)	A19496-ND	.48	.44	770602-8
		9	.920 (23.37)	A19497-ND	.54	.49	770602-9
		10	1.020 (25.91)	A19498-ND	.61	.55	1-770602-0
		11	1.120 (28.45)	A19499-ND	.67	.60	1-770602-1
		12	1.220 (30.99)	A19500-ND	.73	.66	1-770602-2
		13	1.320 (33.53)	A19510-ND	.79	.71	1-770602-3
		14	1.420 (36.07)	A19511-ND	.85	.77	1-770602-4
		15	1.520 (38.61)	A23961-ND	.91	.82	1-770602-5
CST-100 Crimp Contact							
4	Tin Plated, Loose	—	—	A19520-ND	1.63/25	2.90/50	770666-1
	Gold Plated, Loose	—	—	A23962-ND	9.73/25	17.29/50	770666-2
	Gold Plated, Strip	—	—	A23962CT-ND	22.51/100	103.18/500	770601-2
				A23962TR-ND	619.08/5,500		
LED Receptacles (mate with .36 - .51mm diameter posts), .100” (2.54mm) centers							
1	Closed End with Lock, w/out Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A19180-ND	.12	.06	641537-2
		3	.300 (7.62)	A19181-ND	.12	.07	641537-3
	Feed-Thru with Lock, w/out Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A19220-ND	.20	.10	641656-2
		3	.300 (7.62)	A19221-ND	.19	.11	641656-3
	Closed End with Lock, w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A19170-ND	.12	.06	641536-2
		3	.300 (7.62)	A19171-ND	.12	.07	641536-3

Fig.	Description	Cir-cuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
1	Feed-Thru with Lock, w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A19210-ND	.20	.10	641655-2
		3	.300 (7.62)	A19211-ND	.19	.11	641655-3
	Closed End with Lock, w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A19160-ND	.12	.06	641535-2
		3	.300 (7.62)	A19161-ND	.12	.07	641535-3
		5	.500 (12.7)	A23920-ND	.26	.24	641535-5
		6	.600 (15.24)	A23921-ND	.28	.26	641535-6
1A	Closed End w/Lock, w/Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A23922-ND	.12	.10	644795-2
1	Feed-Thru w/ Lock, w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A19200-ND	.19	.10	641654-2
		3	.300 (7.62)	A19201-ND	.19	.11	641654-3
	Closed End w/ Lock, w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A19150-ND	.12	.06	641534-2
		3	.300 (7.62)	A19151-ND	.12	.07	641534-3
		8	.800 (20.32)	A23923-ND	.37	.34	641534-8
	Feed-Thru w/ Lock, w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A19190-ND	.20	.10	641653-2
		3	.300 (7.62)	A19191-ND	.19	.11	641653-3
		8	.800 (20.32)	A23924-ND	.37	.34	641653-8
Replacement LED Contacts							
2	28 AWG, Tin Plated	—	—	A19317-ND	1.58/25	2.81/50	641646-1
	26 AWG, Tin Plated	—	—	A19316-ND	1.58/25	2.81/50	641645-1
	24 AWG, Tin Plated	—	—	A19315-ND	1.58/25	2.81/50	641644-1
	22 AWG, Tin Plated	—	—	A19314-ND	1.58/25	2.81/50	641643-1
Keying Plugs with Carrier Strip							
5	10 Plugs per Strip	—	—	A19310-ND	.52	.29	641994-1
Accessories, .100” (2.54mm) Centers							
6	Closed End Strain Relief Covers, White	2	.200 (5.08)	A19230-ND	.30	.17	643075-2
		3	.300 (7.62)	A19231-ND	.99	.90	643075-3
		4	.400 (10.16)	A19232-ND	.33	.19	643075-4
		5	.500 (12.70)	A19233-ND	1.00	.90	643075-5
		6	.600 (15.24)	A19234-ND	.34	.19	643075-6
		7	.700 (17.78)	A19235-ND	1.01	.91	643075-7
		8	.800 (20.32)	A19236-ND	1.01	.91	643075-8
		9	.900 (22.86)	A19237-ND	1.01	.92	643075-9
		10	1.000 (25.40)	A19238-ND	1.02	.92	1-643075-0
		11	1.100 (27.94)	A19239-ND	1.02	.92	1-643075-1
		12	1.200 (30.48)	A19240-ND	1.02	.93	1-643075-2
		13	1.300 (33.02)	A19241-ND	.98	.88	1-643075-3
		14	1.400 (35.56)	A19242-ND	1.03	.93	1-643075-4
		15	1.500 (38.1)	A23892-ND	1.04	.94	1-643075-5
7	Closed End Dust Covers, White	2	.200 (5.08)	A19250-ND	.11	.10	640550-2
		3	.300 (7.62)	A19251-ND	.29	.13	640550-3
		4	.400 (10.16)	A19252-ND	.33	.15	640550-4
		5	.500 (12.70)	A19253-ND	.39	.18	640550-5
		6	.600 (15.24)	A19254-ND	.40	.20	640550-6
		7	.700 (17.78)	A19255-ND	.43	.22	640550-7
		8	.800 (20.32)	A19256-ND	.45	.25	640550-8
		9	.900 (22.86)	A19257-ND	.49	.27	640550-9
		10	1.000 (25.40)	A19258-ND	.53	.29	1-640550-0
		11	1.100 (27.94)	A19259-ND	.57	.31	1-640550-1
		12	1.200 (30.48)	A19260-ND	.63	.35	1-640550-2
		13	1.300 (33.02)	A19261-ND	.66	.36	1-640550-3
		14	1.400 (35.56)	A19262-ND	.71	.39	1-640550-4
		15	1.500 (38.1)	A23893-ND	.45	.41	1-640550-5
8	Feed-Thru Strain Relief Covers, White	2	.200 (5.08)	A19270-ND	.45	.41	643077-2
		3	.300 (7.62)	A19271-ND	.15	.14	643077-3
		4	.400 (10.16)	A19272-ND	.40	.37	643077-4
		5	.500 (12.70)	A19273-ND	.50	.46	643077-5
		6	.600 (15.24)	A19274-ND	.55	.50	643077-6
		7	.700 (17.78)	A19275-ND	.57	.52	643077-7
		8	.800 (20.32)	A19276-ND	.65	.59	643077-8
		9	.900 (22.86)	A19277-ND	1.09	.98	643077-9
		10	1.000 (25.40)	A19278-ND	1.02	.92	1-643077-0
		11	1.100 (27.94)	A19279-ND	1.02	.92	1-643077-1
		12	1.200 (30.48)	A19280-ND	1.02	.93	1-643077-2
		13	1.300 (33.02)	A19281-ND	1.03	.93	1-643077-3
		14	1.400 (35.56)	A19282-ND	1.03	.93	1-643077-4
		15	1.500 (38.1)	A23894-ND	1.04	.94	1-643077-5
9	Feed-Thru Dust Covers, White	3	.300 (7.62)	A19291-ND	.16	.07	640642-3
		4	.400 (10.16)	A19292-ND	.16	.09	640642-4
		5	.500 (12.70)	A19293-ND	.18	.10	640642-5
		6	.600 (15.24)	A19294-ND	.36	.20	640642-6
		7	.700 (17.78)	A19295-ND	.40	.22	640642-7
		8	.800 (20.32)	A19296-ND	.45	.25	640642-8
		9	.900 (22.86)	A19297-ND	.49	.27	640642-9
		10	1.000 (25.40)	A19298-ND	.53	.29	1-640642-0
		11	1.100 (27.94)	A19299-ND	.57	.31	1-640642-1
		12	1.200 (30.48)	A19300-ND	.63	.35	1-640642-2
		13	1.300 (33.02)	A19301-ND	.66	.36	1-640642-3
		14	1.400 (35.56)	A19302-ND	.71	.39	1-640642-4
		15	1.500 (38.1)	A23895-ND	.45	.41	1-640642-5
Post Headers, .100 (2.54mm) Centers (.200 (5.08) Wide Base)							
10	Straight Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1911-ND	.23	.18	640452-2
		3	.300 (7.62)	A19330-ND	.23	.18	640452-3
		4	.400 (10.16)	A1912-ND	.27	.24	640452-4
		5	.500 (12.70)	A19331-ND	.33	.30	640452-5
		6	.600 (15.24)	A1913-ND	.36	.33	640452-6
		7	.700 (17.78)	A19332-ND	.42	.39	640452-7
		8	.800 (20.32)	A1914-ND	.48	.44	640452-8
		9	.900 (22.86)	A19333-ND	.54	.49	640452-9
		10	1.000 (25.40)	A1915-ND	.60	.55	1-640452-0
		15	1.500 (38.1)	A24931-ND	1.13	1.02	1-640452-5
11	Right Angle Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1916-ND	.21	.13	640453-2
		3	.300 (7.62)	A19340-ND	.24	.19	640453-3
		4	.400 (10.16)	A1917-ND	.28	.25	640453-4
		5	.500 (12.70)	A19341-ND	.35	.32	640453-5
		6	.600 (15.24)	A1918-ND	.38	.34	640453-6
		7	.700 (17.78)	A19342-ND	.44	.40	640453-7
		8	.800 (20.32)	A1919-ND	.50	.46	640453-8
		9	.900 (22.86)	A19343-ND	.57	.51	640453-9
		10	1.000 (25.40)	A1920-ND	.63	.57	1-640453-0
		12	1.200 (30.48)	A23927-ND	.75	.68	1-640453-2
		15	1.500 (38.1)	A23896-ND	3.26	2.94	1-640453-5
Narrow Base Post Headers, .100” (2.54mm) Centers (2.34mm Wide Base)							
10	Straight Post .64 (.025) Square w/o Retentive Legs, Tin Plated	2	.188 (4.78)	A19350-ND	.22	.15	644456-2
		3	.288 (7.32)	A19351-ND	.23	.18	644456-3
		4	.388 (9.86)	A19352-ND	.27	.24	644456-4
		5	.488 (12.40)	A19353-ND	.33	.30	644456-5
		6	.588 (14.94)	A19354-ND	.36	.33	644456-6

† UL94V-0 – Black Housing

(Continued)

MTA .100” (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
10	Straight Post .64 (.025) Square w/o Retentive Legs, Tin Plated (cont.)	7	.688 (17.48)	A19355-ND	.42	.39	644456-7
		8	.788 (20.02)	A19356-ND	.48	.44	644456-8
		9	.888 (22.56)	A19357-ND	.54	.49	644456-9
		10	.988 (25.10)	A19358-ND	.60	.55	1-644456-0
		11	1.088 (27.64)	A19359-ND	.66	.60	1-644456-1
		12	1.188 (30.18)	A19360-ND	.73	.66	1-644456-2
		13	1.288 (32.72)	A19361-ND	.79	.71	1-644456-3
		14	1.388 (35.26)	A19362-ND	.85	.77	1-644456-4
	Straight Post .64 (.025) Square with Retentive Legs, Tin Plated	2	.200 (5.08)	A19370-ND	.21	.16	644695-2
		3	.300 (7.62)	A19371-ND	.19	.18	644695-3
		4	.400 (10.16)	A19372-ND	.29	.27	644695-4
		5	.500 (12.70)	A19373-ND	.37	.33	644695-5
		6	.600 (15.24)	A19374-ND	.40	.36	644695-6
		7	.700 (17.78)	A19375-ND	.47	.42	644695-7
		8	.800 (20.32)	A19376-ND	.53	.48	644695-8
		9	.900 (22.86)	A19377-ND	.60	.54	644695-9
		10	1.000 (25.40)	A19378-ND	.66	.60	1-644695-0
		11	1.100 (27.94)	A19379-ND	.73	.66	1-644695-1
		12	1.200 (30.48)	A19380-ND	2.21	1.99	1-644695-2
		13	1.300 (33.02)	A19381-ND	.86	.78	1-644695-3
		14	1.400 (35.56)	A19382-ND	.93	.84	1-644695-4
11	Right Angle Post .64 (.025) Square w/o Retentive Legs, Tin Plated	2	.200 (5.08)	A19390-ND	.21	.13	644457-2
		3	.300 (7.62)	A19391-ND	.21	.17	644457-3
		4	.400 (10.16)	A19392-ND	.28	.25	644457-4
		5	.500 (12.70)	A19393-ND	.35	.32	644457-5
		6	.600 (15.24)	A19394-ND	.38	.34	644457-6
		7	.700 (17.78)	A19395-ND	1.22	1.10	644457-7
		8	.800 (20.32)	A19396-ND	.50	.46	644457-8
		9	.900 (22.86)	A19397-ND	.57	.51	644457-9
		10	1.000 (25.40)	A19398-ND	.63	.57	1-644457-0
		11	1.100 (27.94)	A19399-ND	.69	.63	1-644457-1
		12	1.200 (30.48)	A19400-ND	.75	.68	1-644457-2
		13	1.300 (33.02)	A19401-ND	.82	.74	1-644457-3
		14	1.400 (35.56)	A19402-ND	.88	.80	1-644457-4
	Right Angle Post .64 (.025) Square with Retentive Legs, Tin Plated	2	.200 (5.08)	A19410-ND	.18	.12	644694-2
		3	.300 (7.62)	A19411-ND	.20	.18	644694-3
		4	.400 (10.16)	A19412-ND	.30	.28	644694-4
		5	.500 (12.70)	A19413-ND	.38	.35	644694-5
		6	.600 (15.24)	A19414-ND	.41	.38	644694-6
		7	.700 (17.78)	A19415-ND	.48	.44	644694-7
		8	.800 (20.32)	A19416-ND	.55	.50	644694-8
		9	.900 (22.86)	A19417-ND	.62	.56	644694-9
		10	1.000 (25.40)	A19418-ND	.69	.63	1-644694-0
		11	1.100 (27.94)	A19419-ND	.76	.69	1-644694-1
		12	1.200 (30.48)	A19420-ND	.83	.75	1-644694-2
		13	1.300 (33.02)	A19421-ND	.90	.81	1-644694-3
		14	1.400 (35.56)	A19422-ND	.97	.88	1-644694-4
Polarized Headers, .100” (2.54mm) Centers							
12A	Straight Post .64 (.025) Square, TIn Plated	2	.200 (5.08)	A19423-ND	.10	.04	640454-2
		3	.300 (7.62)	A19430-ND	.09	.06	640454-3
		4	.400 (10.16)	A19431-ND	.12	.07	640454-4
		5	.500 (12.70)	A19432-ND	.15	.09	640454-5
		6	.600 (15.24)	A19433-ND	.17	.10	640454-6
		7	.700 (17.78)	A19434-ND	.19	.11	640454-7
		8	.800 (20.32)	A19435-ND	.20	.12	640454-8
		9	.900 (22.86)	A19436-ND	.60	.54	640454-9
		10	1.000 (25.40)	A19437-ND	.24	.14	1-640454-0
		11	1.100 (27.94)	A19438-ND	.73	.66	1-640454-1
		12	1.200 (30.48)	A19439-ND	.37	.21	1-640454-2
		13	1.300 (33.02)	A19440-ND	.86	.78	1-640454-3
		14	1.400 (35.56)	A19441-ND	.93	.84	1-640454-4
		15	1.500 (38.1)	A23929-ND	1.25	1.13	1-640454-5
	Straight Post .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A23897-ND	.44	.40	641213-2
		3	.300 (7.62)	A23898-ND	.68	.62	641213-3
		4	.400 (10.16)	A23899-ND	.84	.76	641213-4
		5	.500 (12.7)	A23900-ND	.80	.73	641213-5
		6	.600 (15.24)	A23901-ND	1.16	1.05	641213-6
		7	.700 (17.78)	A23902-ND	1.29	1.16	641213-7
		8	.800 (20.32)	A23931-ND	.80	.73	641213-8
		9	.900 (22.86)	A23903-ND	1.62	1.46	641213-9
		10	1.00 (25.4)	A23904-ND	1.69	1.52	1-641213-0
		11	1.100 (27.94)	A23905-ND	1.96	1.77	1-641213-1
		12	1.200 (30.48)	A23906-ND	2.06	1.86	1-641213-2
		13	1.300 (33.02)	A23907-ND	2.26	2.04	1-641213-3
		14	1.400 (35.56)	A23908-ND	2.40	2.16	1-641213-4
		15	1.500 (38.1)	A23909-ND	2.46	2.22	1-641213-5
13A	Right Angle Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19450-ND	.10	.04	640455-2
		3	.300 (7.62)	A19451-ND	.09	.06	640455-3
		4	.400 (10.16)	A19452-ND	.12	.07	640455-4
		5	.500 (12.70)	A19453-ND	.15	.09	640455-5
		6	.600 (15.24)	A19454-ND	.17	.10	640455-6
		7	.700 (17.78)	A19455-ND	.19	.11	640455-7
		8	.800 (20.32)	A19456-ND	.20	.12	640455-8
		9	.900 (22.86)	A19457-ND	.60	.54	640455-9
		10	1.000 (25.40)	A19458-ND	.24	.14	1-640455-0
		11	1.100 (27.94)	A19459-ND	.73	.66	1-640455-1
		12	1.200 (30.48)	A19460-ND	.37	.21	1-640455-2
		13	1.300 (33.02)	A19461-ND	.86	.78	1-640455-3
		14	1.400 (35.56)	A19462-ND	.93	.84	1-640455-4
		15	1.500 (38.1)	A23932-ND	1.25	1.13	1-640455-5
	Right Angle Post .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A23910-ND	.74	.67	641214-2
		3	.300 (7.62)	A23911-ND	1.01	.92	641214-3
		4	.400 (10.16)	A23912-ND	1.25	1.13	641214-4
		5	.500 (12.7)	A23913-ND	1.45	1.31	641214-5
		6	.600 (15.24)	A23914-ND	1.65	1.49	641214-6
		7	.700 (17.78)	A23915-ND	1.79	1.61	641214-7
		8	.800 (20.32)	A23933-ND	.80	.73	641214-8
		9	.900 (22.86)	A23916-ND	1.96	1.77	641214-9
		10	1.00 (25.4)	A23917-ND	2.04	1.84	1-641214-0
		11	1.100 (27.94)	A23918-ND	2.13	1.92	1-641214-1
		12	1.200 (30.48)	A23919-ND	2.29	2.07	1-641214-2
		13	1.300 (33.02)	A24927-ND	2.53	2.28	1-641214-3
		14	1.400 (35.56)	A24928-ND	2.63	2.37	1-641214-4
		15	1.500 (38.1)	A24929-ND	2.66	2.40	1-641214-5
Post Headers, .100” (2.54mm) Centers, Friction Lock Header							
12B	Straight Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1921-ND	.10	.04	640456-2
		3	.300 (7.62)	A19470-ND	.09	.06	640456-3
		4	.400 (10.16)	A1922-ND	.12	.07	640456-4
		5	.500 (12.70)	A19471-ND	.15	.09	640456-5
		6	.600 (15.24)	A1923-ND	.17	.10	640456-6
		7	.700 (17.78)	A19472-ND	.19	.11	640456-7
12B	Straight Post .64 (.025) Square, Tin Plated (cont.)	8	.800 (20.32)	A1924-ND	.20	.12	640456-8
		9	.900 (22.86)	A19473-ND	.60	.54	640456-9
		10	1.000 (25.40)	A1925-ND	.24	.14	1-640456-0
		11	1.100 (27.94)	A19474-ND	.73	.66	1-640456-1
		12	1.200 (30.48)	A19475-ND	.37	.21	1-640456-2
		13	1.300 (33.02)	A19476-ND	.86	.78	1-640456-3
		14	1.400 (35.56)	A19477-ND	.93	.84	1-640456-4
		15	1.500 (38.1)	A24930-ND	1.25	1.13	1-640456-5
12A	Straight Post .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A24932-ND	.45	.41	641215-2
		3	.300 (7.62)	A24933-ND	.68	.61	641215-3
		4	.400 (10.16)	A24934-ND	.84	.76	641215-4
		5	.500 (12.7)	A24935-ND	1.09	.99	641215-5
		6	.600 (15.24)	A24936-ND	1.22	1.10	641215-6
		7	.700 (17.78)	A24937-ND	1.35	1.22	641215-7
		8	.800 (20.32)	A23941-ND	.80	.73	641215-8
		9	.900 (22.86)	A24938-ND	1.61	1.45	641215-9
		10	1.00 (25.4)	A24939-ND	1.70	1.54	1-641215-0
		11	1.100 (27.94)	A24940-ND	1.96	1.77	1-641215-1
		12	1.200 (30.48)	A24941-ND	2.06	1.86	1-641215-2
		14	1.400 (35.56)	A24942-ND	2.41	2.17	1-641215-4
		15	1.500 (38.1)	A24943-ND	2.64	2.38	1-641215-5
13B	Right Angle Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1926-ND	.10	.04	640457-2
		3	.300 (7.62)	A19480-ND	.09	.06	640457-3
		4	.400 (10.16)	A1927-ND	.12	.07	640457-4
		5	.500 (12.70)	A19481-ND	.15	.09	640457-5
		6	.600 (15.24)	A1928-ND	.17	.10	640457-6
		7	.700 (17.78)	A19482-ND	.19	.11	640457-7
		8	.800 (20.32)	A1929-ND	.20	.12	640457-8
		9	.900 (22.86)	A19483-ND	.60	.54	640457-9
		10	1.000 (25.40)	A1930-ND	.24	.14	1-640457-0
		11	1.100 (27.94)	A19484-ND	.73	.66	1-640457-1
		12	1.200 (30.48)	A19485-ND	.37	.21	1-640457-2
		13	1.300 (33.02)	A19486-ND	.86	.78	1-640457-3
		14	1.400 (35.56)	A19487-ND	.93	.84	1-640457-4
	Right Angle Post .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A24944-ND	.68	.61	641216-2
		3	.300 (7.62)	A24945-ND	.93	.84	641216-3
		4	.400 (10.16)	A23943-ND	1.13	1.02	641216-4
		5	.500 (12.7)	A24946-ND	1.35	1.22	641216-5
		6	.600 (15.24)	A24947-ND	1.48	1.34	641216-6
		7	.700 (17.78)	A24948-ND	1.54	1.39	641216-7
		8	.800 (20.32)	A23944-ND	.80	.73	641216-8
		9	.900 (22.86)	A24949-ND	1.70	1.54	641216-9
		10	1.00 (25.4)	A24950-ND	1.90	1.71	1-641216-0
		11	1.100 (27.94)	A24951-ND	2.06	1.86	1-641216-1
		12	1.200 (30.48)	A24952-ND	2.53	2.28	1-641216-2
		13	1.300 (33.02)	A24953-ND	2.44	2.20	1-641216-3
		14	1.400 (35.56)	A24954-ND	2.60	2.35	1-641216-4
		15	1.500 (38.1)	A24955-ND	2.66	2.40	1-641216-5
Shrouded Headers, .100” (2.54mm)							
14	Straight Post .64 (.025) Square w/ Pegs, TIn Plated	2	.284 (7.21)	A23945-ND	.38	.34	644486-2
		3	.384 (9.75)	A23946-ND	.43	.39	644486-3
		4	.484 (12.29)	A23925-ND	.73	.66	644486-4
		5	.584 (14.83)	A23926-ND	.91	.83	644486-5
		6	.684 (17.37)	A23928-ND	1.00	.90	644486-6
		7	.784 (19.91)	A23930-ND	1.16	1.05	644486-7
		8	.884 (22.45)	A23957-ND	.59	.54	644486-8
		9	.984 (24.99)	A23934-ND	1.42	1.28	644486-9
		10	1.084 (27.53)	A23935-ND	1.66	1.50	1-644486-0
		11	1.184 (30.07)	A23936-ND	1.83	1.65	1-644486-1
		12	1.284 (32.61)	A23937-ND	1.99	1.80	1-644486-2
		13	1.384 (35.15)	A23938-ND	2.16	1.95	1-644486-3
		14	1.484 (37.69)	A23939-ND	2.33	2.10	1-644486-4
	Straight Post .64 (.025) Square w/out Pegs, Tin Plated	2	.284 (7.21)	A23958-ND	.45	.41	644861-2
		3	.384 (9.75)	A23959-ND	.64	.58	644861-3
		4	.484 (12.29)	A23940-ND	.73	.66	644861-4
		5	.584 (14.83)	A23825-ND	.91	.83	644861-5
		6	.684 (17.37)	A23858-ND	1.00	.90	644861-6
		7	.784 (19.91)	A23859-ND	1.11	1.00	644861-7
		8	.884 (22.45)	A23960-ND	.59	.54	644861-8
		9	.984 (24.99)	A23860-ND	1.80	1.63	644861-9
		10	1.084 (27.53)	A23861-ND	1.66	1.50	1-644861-0
		11	1.184 (30.07)	A23862-ND	1.83	1.65	1-644861-1
		12	1.284 (32.61)	A23863-ND	1.99	1.80	1-644861-2
		13	1.384 (35.15)	A23864-ND	2.16	1.95	1-644861-3
		14	1.484 (37.69)	A23865-ND	2.33	2.10	1-644861-4
15A	Right-Angle Posts .64 (.025) Square, Front Bend w/out Pegs, Tin Plated	2	.284 (7.21)	A23866-ND	.77	.69	644488-2
		3	.384 (9.75)	A23867-ND	.77	.69	644488-3
		4	.484 (12.29)	A23868-ND	.76	.69	644488-4
		5	.584 (14.83)	A23869-ND	1.01	.91	644488-5
		6	.684 (17.37)	A23870-ND	1.03	.93	644488-6
		7	.784 (19.91)	A23871-ND	1.20	1.09	644488-7
		8	.884 (22.45)	A23872-ND	1.38	1.24	644488-8
		9	.984 (24.99)	A23873-ND	1.55	1.40	644488-9
		10	1.084 (27.53)	A23874-ND	1.72	1.55	1-644488-0
		11	1.184 (30.07)	A23875-ND	1.89	1.71	1-644488-1
		12	1.284 (32.61)	A23876-ND	2.06	1.86	1-644488-2
		13	1.384 (35.15)	A23877-ND	2.24	2.02	1-644488-3
		14	1.484 (37.69)	A23878-ND	2.42	2.18	1-644488-4
15B	Right-Angle Posts .64 (.025) Square, Rear Bend w/out Pegs, Tin Plated	2	.284 (7.21)	A23879-ND	.77	.69	644803-2
		3	.384 (9.75)	A23880-ND	.77	.69	644803-3
		4	.484 (12.29)	A23881-ND	.76	.69	644803-4
		5	.584 (14.83)	A23882-ND	.61	.55	644803-5
		6	.684 (17.37)	A23883-ND	1.03	.93	644803-6
		7	.784 (19.91)	A23884-ND	1.58	1.43	644803-7
		8	.884 (22.45)	A23885-ND	1.38	1.24	644803-8
		9	.984 (24.99)	A23886-ND	1.55	1.40	644803-9
		10	1.084 (27.53)	A23887-ND	1.72	1.55	1-644803-0
		11	1.184 (30.07)	A23888-ND	1.89	1.71	1-644803-1
		12	1.284 (32.61)	A23889-ND	2.06	1.86	1-644803-2
		13	1.384 (35.15)	A23890-ND	2.24	2.02	1-644803-3
		14	1.484 (37.69)	A23891-ND	2.42	2.18	1-644803-4

A9982-ND	T-Handle Tool for MTA .100” (2.54mm)	**$17.93 each**	59803-1
A9973-ND	Crimp Die for MTA .100” (2.54mm) Feed Thru Receptacles	**$442.50 each**	58442-1
A1998-ND	Crimp Die for MTA .100” (2.54mm) IDC Closed End Receptacles (Must be used with handle A2031-ND) use with Fig. 1	**$103.74 each**	58246-1
A2031-ND	Manual Pistol Grip Handle for Metal and All-Plastic Shell Connectors. (Must order crimp die separately) use with Fig. 1	**$55.50 each**	58074-1
A19530-ND	Crimp Tool for CST-100 with Die	**$208.50 each**	58517-1
A19531-ND	Die Set for CST-100 (use with A9996)	**$166.50 each**	58517-2
A9996-ND	Crimp Tool Handle for CST-100	**$66.00 each**	354940-1

MTA .156” (3.96mm) Receptacles and Post Headers

IDC CONNECTORS: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contacts • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189. **PERFORMANCE DATA: Voltage Rating:** 250 VAC. **Current Rating:** 7A. **Low-Level Resistance:** 3 mΩ max. initial. **Dielectric Withstanding Voltage:** 1250 VAC/1 min. **Insulation Resistance:** 5000 MΩ min. initial. **Operating Temperature:** -55°C to +105°C**. MATERIAL AND FINISH – Housing:** UL94V-2 rated, type 6/6 nylon (24 AWG - White; 22 AWG - Red: 20 AWG - Yellow; 18 AWG - Orange). **Contacts:** Phosphor bronze, post tin plated, 30µ.

REPLACEMENT IDC CONTACTS: MATERIAL AND FINISH: Phosphor bronze, post tin plated; 30µ.

SL-156 CRIMP CONTACTS AND HOUSINGS: • High current rating • Mates with MTA and similar competitive notched headers • Rugged wire-to-board interconnection to mate with .045 square or round post headers • Housing made of flame retardant 6/6 nylon • Connectors are end-to-end stackable • Wire-to-board system offers polarization with friction lock for positive mating • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189. **PERFORMANCE DATA: Voltage Rating:** 250 VAC. **Current Rating:** 10 amp max. @ 250 VAC. **Low-Level Resistance:** 3.0 mΩ max. initial. **Dielectric Withstanding Voltage:** 2000 VAC/1 min. **Insulation Resistance:** 1000 MΩ min. initial. **Operating Temperature:** -55°C to +105°C. **MATERIAL AND FINISH (CONTACTS):** Bright tin plated brass or phosphor bronze; .012 (0.3) pre-tin or 30µ over nickel. **Wire Range:** 18-24 AWG. **Max. Insulation Diameter:** .110 (2.79mm).

KEYING PLUG WITH CARRIER STRIP (10 plugs per strip): MATERIAL: UL94V-2 rated, type 6/6 nylon, natural color

POST HEADERS: Material For Housing: Polyester 94V-0 rated, white. **Posts:** Copper alloy.

Fig. 1
Discrete Wire IDC

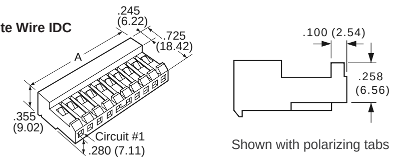


Fig. 2

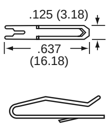


Fig. 3

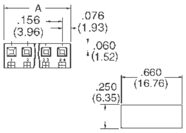


Fig. 4

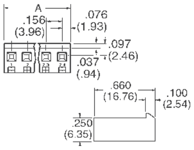


Fig. 5

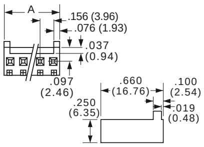


Fig. 6 High Force

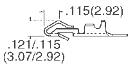


Fig. 7 Low Force

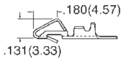


Fig. 8 Hooded

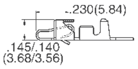


Fig. 9 Strain Relief Cover - Closed End

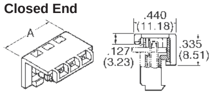


Fig. 10 Dust Cover - Closed End

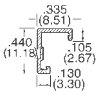


Fig. 11 Strain Relief Cover - Feed Thru

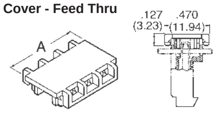


Fig. 12 Dust Cover - Feed Thru

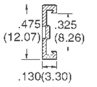


Fig. 13

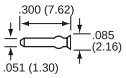


Fig. 14

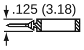


Fig. 15

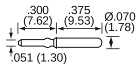


Fig. 16

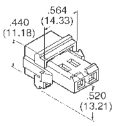


Fig. 17

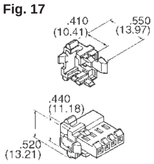


Fig. 18

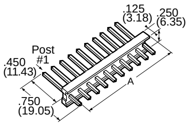


Fig. 19

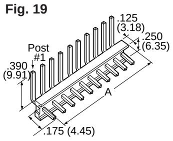


Fig. 20

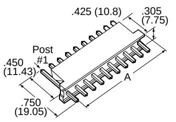


Fig. 21

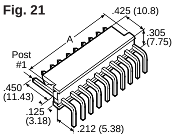
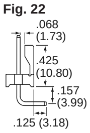


Fig. 22



Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Crimp Tool w/Die for SL-156 Contacts .060-.110 Insulation Dia.	A9974-ND	426.93	91512-1
Crimp Tool w/Die for SL-156 Contacts .043-.075 Insulation Dia.	A19996-ND	400.28	90123-5
T-Handle Tool Prototype Tool for MTA .156" (3.96mm) IDC Connectors	A9981-ND	17.93	59804-1
Crimp Die for MTA .156" (3.96mm) IDC Receptacles (Must be used with handle A2031-ND.)	A1999-ND	103.74	58247-1
Manual Pistol Grip Tool IDC (Must order crimp die separately.)	A2031-ND	55.50	58074-1

Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	Receptacles, .156” (3.96mm) centers						
1	Closed End with Lock w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A23988-ND	.54	.49	640430-2
		3	.468 (11.89)	A23964-ND	.25	.13	640430-3
		4	.624 (15.85)	A23965-ND	.26	.24	640430-4
		5	.780 (19.81)	A23995-ND	.52	.48	640430-5
		6	.936 (23.77)	A23966-ND	.34	.31	640430-6
		7	1.092 (27.74)	A24019-ND	.67	.60	640430-7
		8	1.248 (31.7)	A24131-ND	.76	.69	640430-8
		9	1.404 (35.66)	A24132-ND	.86	.78	640430-9
		10	1.560 (39.62)	A24133-ND	.95	.86	1-640430-0
		11	1.716 (43.59)	A24134-ND	1.05	.95	1-640430-1
		12	1.872 (47.55)	A24135-ND	1.14	1.03	1-640430-2
		17	2.652 (67.36)	A23967-ND	.76	.69	1-640430-7
1	Closed End with Lock with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A24136-ND	.21	.19	643821-2
		3	.468 (11.89)	A23968-ND	.25	.13	643821-3
		4	.624 (15.85)	A23969-ND	.27	.25	643821-4
		5	.780 (19.81)	A24137-ND	.52	.48	643821-5
		6	.936 (23.77)	A23970-ND	.34	.31	643821-6
		7	1.092 (27.74)	A24138-ND	.67	.60	643821-7
		8	1.248 (31.7)	A26135-ND	.76	.69	643821-8
		9	1.404 (35.66)	A24829-ND	1.11	1.01	643821-9
		10	1.560 (39.62)	A26041-ND	.95	.86	1-643821-0
		11	1.716 (43.59)	A26042-ND	1.05	.95	1-643821-1
		12	1.872 (47.55)	A26043-ND	1.14	1.03	1-643821-2
		17	2.652 (67.36)	A23971-ND	.76	.69	1-643821-7
1	Closed End w/out Lock w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A24044-ND	.15	.14	640435-2
		3	.468 (11.89)	A23972-ND	.25	.13	640435-3
		4	.624 (15.85)	A23973-ND	.26	.24	640435-4
		5	.780 (19.81)	A26045-ND	.52	.48	640435-5
		6	.936 (23.77)	A23974-ND	.34	.31	640435-6
		7	1.092 (27.74)	A26046-ND	.67	.60	640435-7
		8	1.248 (31.7)	A26048-ND	.76	.69	640435-8
		9	1.404 (35.66)	A26049-ND	.86	.78	640435-9
		10	1.560 (39.62)	A26050-ND	.95	.86	1-640435-0
		11	1.716 (43.59)	A26051-ND	1.05	.95	1-640435-1
		12	1.872 (47.55)	A26052-ND	1.14	1.03	1-640435-2
		17	2.652 (67.36)	A23975-ND	.76	.69	1-640435-7
1	Feed-Thru with Lock w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A24098-ND	.15	.14	640595-2
		3	.468 (11.89)	A24045-ND	.24	.22	640595-3
		4	.624 (15.85)	A24046-ND	.27	.25	640595-4
		5	.780 (19.81)	A24099-ND	.52	.48	640595-5
		6	.936 (23.77)	A24047-ND	.34	.31	640595-6
		7	1.092 (27.74)	A24100-ND	.67	.60	640595-7
		8	1.248 (31.7)	A24101-ND	.76	.69	640595-8
		9	1.404 (35.66)	A24102-ND	.86	.78	640595-9
		10	1.560 (39.62)	A24103-ND	.95	.86	1-640595-0
		11	1.716 (43.59)	A24104-ND	1.05	.95	1-640595-1
		12	1.872 (47.55)	A24105-ND	1.14	1.03	1-640595-2
		17	2.652 (67.36)	A24048-ND	.76	.69	1-640595-7
1	Feed-Thru w/out Lock w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A24106-ND	.15	.14	640608-2
		3	.468 (11.89)	A24049-ND	.24	.22	640608-3
		4	.624 (15.85)	A24050-ND	.27	.25	640608-4
		5	.780 (19.81)	A24107-ND	.52	.48	640608-5
		6	.936 (23.77)	A24051-ND	.34	.31	640608-6
		7	1.092 (27.74)	A24956-ND	.67	.60	640608-7
		8	1.248 (31.7)	A24957-ND	.76	.69	640608-8
		9	1.404 (35.66)	A24958-ND	.86	.78	640608-9
		10	1.560 (39.62)	A24959-ND	.95	.86	1-640608-0
		11	1.716 (43.59)	A24960-ND	1.05	.95	1-640608-1
		12	1.872 (47.55)	A24961-ND	1.14	1.03	1-640608-2
		17	2.652 (67.36)	A24052-ND	.76	.69	1-640608-7
1	Closed End with Lock w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A19630-ND	.21	.19	640429-2
		3	.468 (11.89)	A19631-ND	.25	.08	640429-3
		4	.624 (15.85)	A19632-ND	.26	.15	640429-4
		5	.780 (19.81)	A19633-ND	1.26	1.14	640429-5
		6	.936 (23.77)	A19634-ND	.34	.19	640429-6
		7	1.092 (27.74)	A19635-ND	.67	.60	640429-7
		8	1.248 (31.70)	A19636-ND	1.01	.91	640429-8
		9	1.404 (35.66)	A19637-ND	.86	.78	640429-9
		10	1.560 (39.62)	A19638-ND	.95	.86	1-640429-0
		11	1.716 (43.59)	A19639-ND	1.05	.95	1-640429-1
		12	1.872 (47.55)	A19640-ND	1.14	1.03	1-640429-2
		17	2.652 (67.36)	A23976-ND	.76	.69	1-640429-7
1	Closed End with Lock with Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A26053-ND	.21	.19	643820-2
		3	.468 (11.89)	A23977-ND	.26	.14	643820-3
		4	.624 (15.85)	A23978-ND	.26	.24	643820-4
		5	.780 (19.81)	A26054-ND	.52	.48	643820-5
		6	.936 (23.77)	A23979-ND	.34	.31	643820-6
		7	1.092 (27.74)	A26055-ND	.67	.60	643820-7
		8	1.248 (31.7)	A26056-ND	.76	.69	643820-8
		9	1.404 (35.66)	A26057-ND	.86	.78	643820-9
		10	1.560 (39.62)	A26058-ND	.95	.86	1-643820-0
		11	1.716 (43.59)	A26059-ND	1.05	.95	1-643820-1
		12	1.872 (47.55)	A26060-ND	1.14	1.03	1-643820-2
		17	2.652 (67.36)	A23980-ND	.76	.69	1-643820-7
1	Closed End w/out Lock w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A26061-ND	.15	.14	640434-2
		3	.468 (11.89)	A23981-ND	.25	.13	640434-3
		4	.624 (15.85)	A23982-ND	.26	.24	640434-4
		5	.780 (19.81)	A26062-ND	.52	.48	640434-5
		6	.936 (23.77)	A23983-ND	.34	.31	640434-6
		7	1.092 (27.74)	A26063-ND	1.60	1.45	640434-7
		8	1.248 (31.7)	A26064-ND	.76	.69	640434-8
		9	1.404 (35.66)	A26065-ND	.86	.78	640434-9
		10	1.560 (39.62)	A26066-ND	.95	.86	1-640434-0
		11	1.716 (43.59)	A26067-ND	1.05	.95	1-640434-1
		12	1.872 (47.55)	A26068-ND	1.14	1.03	1-640434-2
		17	2.652 (67.36)	A23984-ND	.76	.69	1-640434-7

(Continued)

MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Receptacles, .156” (3.96mm) centers (Cont.)							
1	Closed End w/out Lock with Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A26069-ND	.21	.19	644464-2
		3	.468 (11.89)	A23985-ND	.23	.21	644464-3
		4	.624 (15.85)	A23986-ND	.26	.24	644464-4
		5	.780 (19.81)	A26070-ND	.52	.48	644464-5
		6	.936 (23.77)	A23987-ND	.34	.31	644464-6
		7	1.092 (27.74)	A26071-ND	.67	.60	644464-7
		8	1.248 (31.7)	A26072-ND	.76	.69	644464-8
		9	1.404 (35.66)	A26073-ND	.86	.78	644464-9
		10	1.560 (39.62)	A26074-ND	.95	.86	1-644464-0
		11	1.716 (43.59)	A26075-ND	1.05	.95	1-644464-1
		12	1.872 (47.55)	A26076-ND	1.14	1.03	1-644464-2
1	Feed-Thru with Lock w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A19720-ND	.17	.16	640602-2
		3	.468 (11.89)	A19721-ND	.24	.14	640602-3
		4	.624 (15.85)	A19722-ND	.26	.15	640602-4
		5	.780 (19.81)	A19723-ND	.52	.48	640602-5
		6	.936 (23.77)	A19724-ND	.34	.19	640602-6
		7	1.092 (27.74)	A19725-ND	.67	.60	640602-7
		8	1.248 (31.70)	A19726-ND	.76	.69	640602-8
		9	1.404 (35.66)	A19727-ND	.86	.78	640602-9
		10	1.560 (39.62)	A19728-ND	.95	.86	1-640602-0
		11	1.716 (43.59)	A19729-ND	1.05	.95	1-640602-1
		12	1.872 (47.55)	A19730-ND	1.14	1.03	1-640602-2
		17	2.652 (67.36)	A24053-ND	.76	.69	1-640602-7
1	Feed-Thru with Lock with Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A24962-ND	.21	.19	644468-2
		3	.468 (11.89)	A24054-ND	.23	.22	644468-3
		4	.624 (15.85)	A24055-ND	.26	.24	644468-4
		5	.780 (19.81)	A24963-ND	.52	.48	644468-5
		6	.936 (23.77)	A24056-ND	.34	.31	644468-6
		7	1.092 (27.74)	A24964-ND	.67	.60	644468-7
		8	1.248 (31.7)	A24965-ND	.76	.69	644468-8
		9	1.404 (35.66)	A24966-ND	.86	.78	644468-9
		10	1.560 (39.62)	A24967-ND	.95	.86	1-644468-0
		11	1.716 (43.59)	A24968-ND	1.05	.95	1-644468-1
		12	1.872 (47.55)	A24969-ND	1.14	1.03	1-644468-2
1	Feed-Thru w/out Lock w/out Polarizing Tabs, 24 AWG White, Tin Plated,	2	.312 (7.92)	A24970-ND	.15	.14	640607-2
		3	.468 (11.89)	A24057-ND	.24	.22	640607-3
		4	.624 (15.85)	A24058-ND	.26	.24	640607-4
		5	.780 (19.81)	A24971-ND	.52	.48	640607-5
		6	.936 (23.77)	A24059-ND	.34	.31	640607-6
		7	1.092 (27.74)	A24972-ND	.67	.60	640607-7
		8	1.248 (31.7)	A24973-ND	.76	.69	640607-8
		10	1.560 (39.62)	A24974-ND	.95	.86	1-640607-0
		12	1.872 (47.55)	A24975-ND	1.14	1.03	1-640607-2
		17	2.652 (67.36)	A24060-ND	.76	.69	1-640607-7
1	Feed-Thru w/out Lock with Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A24976-ND	.21	.19	644472-2
		3	.468 (11.89)	A24061-ND	.24	.22	644472-3
		4	.624 (15.85)	A24062-ND	.27	.24	644472-4
		5	.780 (19.81)	A24977-ND	.52	.48	644472-5
		6	.936 (23.77)	A24063-ND	.34	.31	644472-6
		7	1.092 (27.74)	A24978-ND	.67	.60	644472-7
		8	1.248 (31.7)	A24979-ND	.76	.69	644472-8
		9	1.404 (35.66)	A24980-ND	.86	.78	644472-9
		10	1.560 (39.62)	A24981-ND	.95	.86	1-644472-0
		11	1.716 (43.59)	A24982-ND	1.05	.95	1-644472-1
		12	1.872 (47.55)	A24983-ND	1.14	1.03	1-644472-2
1	Closed End with Lock w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A19610-ND	.21	.19	640428-2
		3	.468 (11.89)	A19611-ND	.25	.08	640428-3
		4	.624 (15.85)	A19612-ND	.26	.15	640428-4
		5	.780 (19.81)	A19613-ND	.52	.48	640428-5
		6	.936 (23.77)	A19614-ND	.34	.19	640428-6
		7	1.092 (27.74)	A19615-ND	1.60	1.45	640428-7
		8	1.248 (31.70)	A19616-ND	.76	.69	640428-8
		9	1.404 (35.66)	A19617-ND	.86	.78	640428-9
		10	1.560 (39.62)	A19618-ND	.95	.86	1-640428-0
		11	1.716 (43.59)	A19619-ND	1.05	.95	1-640428-1
		12	1.872 (47.55)	A19620-ND	1.14	1.03	1-640428-2
		17	2.652 (67.36)	A23990-ND	.78	.70	1-640428-7
1	Closed End with Lock with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A26077-ND	.21	.19	643819-2
		3	.468 (11.89)	A23991-ND	.25	.13	643819-3
		4	.624 (15.85)	A23992-ND	.26	.24	643819-4
		5	.780 (19.81)	A26078-ND	1.26	1.14	643819-5
		6	.936 (23.77)	A23993-ND	.34	.31	643819-6
		7	1.092 (27.74)	A23994-ND	1.14	1.03	643819-7
		8	1.248 (31.7)	A26079-ND	.76	.69	643819-8
		9	1.404 (35.66)	A26080-ND	.86	.78	643819-9
		10	1.560 (39.62)	A26081-ND	.95	.86	1-643819-0
		11	1.716 (43.59)	A26082-ND	1.05	.95	1-643819-1
		12	1.872 (47.55)	A26083-ND	1.14	1.03	1-643819-2
		17	2.652 (67.36)	A23996-ND	.78	.70	1-643819-7
1	Closed End w/out Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A26084-ND	.21	.19	640433-2
		3	.468 (11.89)	A23997-ND	.25	.13	640433-3
		4	.624 (15.85)	A23998-ND	.26	.24	640433-4
		5	.780 (19.81)	A26085-ND	.52	.48	640433-5
		6	.936 (23.77)	A23999-ND	.34	.31	640433-6
		7	1.092 (27.74)	A26086-ND	.67	.60	640433-7
		8	1.248 (31.7)	A24000-ND	1.03	.93	640433-8
		9	1.404 (35.66)	A26087-ND	.86	.78	640433-9
		10	1.560 (39.62)	A24001-ND	1.18	1.07	1-640433-0
		11	1.716 (43.59)	A26088-ND	1.05	.95	1-640433-1
		12	1.872 (47.55)	A24002-ND	1.38	1.25	1-640433-2
		17	2.652 (67.36)	A24003-ND	1.27	1.15	1-640433-7

Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Closed End w/out Lock with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A26089-ND	.21	.19	644463-2
		3	.468 (11.89)	A24004-ND	.24	.23	644463-3
		4	.624 (15.85)	A24005-ND	.26	.24	644463-4
		5	.780 (19.81)	A26090-ND	.52	.48	644463-5
		6	.936 (23.77)	A24006-ND	.34	.31	644463-6
		7	1.092 (27.74)	A26091-ND	.67	.60	644463-7
		8	1.248 (31.7)	A26092-ND	.76	.69	644463-8
		9	1.404 (35.66)	A26093-ND	.86	.78	644463-9
		10	1.560 (39.62)	A26094-ND	.95	.86	1-644463-0
		11	1.716 (43.59)	A26096-ND	1.05	.95	1-644463-1
		12	1.872 (47.55)	A26097-ND	1.14	1.03	1-644463-2
1	Feed-Thru with Lock w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A19700-ND	.65	.59	640601-2
		3	.468 (11.89)	A19701-ND	.24	.14	640601-3
		4	.624 (15.85)	A19702-ND	.27	.15	640601-4
		5	.780 (19.81)	A19703-ND	1.03	.93	640601-5
		6	.936 (23.77)	A19704-ND	.34	.19	640601-6
		7	1.092 (27.74)	A19705-ND	.67	.60	640601-7
		8	1.248 (31.70)	A19706-ND	.76	.69	640601-8
		9	1.404 (35.66)	A19707-ND	.86	.78	640601-9
		10	1.560 (39.62)	A19708-ND	1.39	1.26	1-640601-0
		11	1.716 (43.59)	A19709-ND	1.05	.95	1-640601-1
		12	1.872 (47.55)	A19710-ND	1.14	1.03	1-640601-2
		17	2.652 (67.36)	A24064-ND	.78	.70	1-640601-7
1	Feed-Thru with Lock with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A24984-ND	.21	.19	644467-2
		3	.468 (11.89)	A24065-ND	.24	.23	644467-3
		4	.624 (15.85)	A24066-ND	.27	.25	644467-4
		5	.780 (19.81)	A24985-ND	.52	.48	644467-5
		6	.936 (23.77)	A24067-ND	.34	.31	644467-6
		7	1.092 (27.74)	A24986-ND	.67	.60	644467-7
		8	1.248 (31.7)	A24987-ND	.76	.69	644467-8
		9	1.404 (35.66)	A24988-ND	.86	.78	644467-9
		10	1.560 (39.62)	A24989-ND	.95	.86	1-644467-0
		11	1.716 (43.59)	A24990-ND	1.05	.95	1-644467-1
		12	1.872 (47.55)	A24991-ND	1.14	1.03	1-644467-2
1	Feed-Thru w/out Lock w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A24992-ND	.17	.16	640606-2
		3	.468 (11.89)	A24068-ND	.25	.23	640606-3
		4	.624 (15.85)	A24069-ND	.27	.25	640606-4
		5	.780 (19.81)	A24993-ND	.52	.48	640606-5
		6	.936 (23.77)	A24070-ND	.34	.31	640606-6
		7	1.092 (27.74)	A24994-ND	.67	.60	640606-7
		8	1.248 (31.7)	A24995-ND	.76	.69	640606-8
		9	1.404 (35.66)	A24996-ND	.86	.78	640606-9
		10	1.560 (39.62)	A24997-ND	.95	.86	1-640606-0
		11	1.716 (43.59)	A24998-ND	1.05	.95	1-640606-1
		12	1.872 (47.55)	A24999-ND	1.82	1.64	1-640606-2
		17	2.652 (67.36)	A24071-ND	.78	.70	1-640606-7
1	Feed-Thru w/out Lock with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A24199-ND	.21	.19	644471-2
		3	.468 (11.89)	A24072-ND	.25	.23	644471-3
		4	.624 (15.85)	A24073-ND	.27	.25	644471-4
		5	.780 (19.81)	A24139-ND	.52	.48	644471-5
		6	.936 (23.77)	A24074-ND	.34	.31	644471-6
		7	1.092 (27.74)	A24140-ND	.67	.60	644471-7
		8	1.248 (31.7)	A24141-ND	.76	.69	644471-8
		9	1.404 (35.66)	A24142-ND	.86	.78	644471-9
		10	1.560 (39.62)	A24143-ND	.95	.86	1-644471-0
		11	1.716 (43.59)	A24144-ND	1.05	.95	1-644471-1
		12	1.872 (47.55)	A24145-ND	1.14	1.03	1-644471-2
1	Closed End with Lock w/out Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A19590-ND	.21	.19	640427-2
		3	.468 (11.89)	A19591-ND	.25	.08	640427-3
		4	.624 (15.85)	A19592-ND	.26	.15	640427-4
		5	.780 (19.81)	A19593-ND	.52	.48	640427-5
		6	.936 (23.77)	A19594-ND	.37	.21	640427-6
		7	1.092 (27.74)	A19595-ND	.67	.60	640427-7
		8	1.248 (31.70)	A19596-ND	.76	.69	640427-8
		9	1.404 (35.66)	A19597-ND	1.10	.99	640427-9
		10	1.560 (39.62)	A19598-ND	.95	.86	1-640427-0
		11	1.716 (43.59)	A19599-ND	1.05	.95	1-640427-1
		12	1.872 (47.55)	A19600-ND	1.14	1.03	1-640427-2
		17	2.652 (67.36)	A24007-ND	.78	.70	1-640427-7
1	Closed End with Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A26098-ND	.21	.19	643818-2
		3	.468 (11.89)	A24008-ND	.25	.13	643818-3
		4	.624 (15.85)	A24009-ND	.26	.24	643818-4
		5	.780 (19.81)	A26099-ND	.52	.48	643818-5
		6	.936 (23.77)	A24010-ND	.34	.31	643818-6
		7	1.092 (27.74)	A26100-ND	.67	.60	643818-7
		8	1.248 (31.7)	A26101-ND	.76	.69	643818-8
		9	1.404 (35.66)	A26102-ND	.86	.78	643818-9
		10	1.560 (39.62)	A26103-ND	1.18	1.07	1-643818-0
		11	1.716 (43.59)	A26104-ND	1.05	.95	1-643818-1
		12	1.872 (47.55)	A26105-ND	1.14	1.03	1-643818-2
		17	2.652 (67.36)	A24011-ND	.99	.89	1-643818-7
1	Closed End w/out Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A24012-ND	.65	.59	640432-2
		3	.468 (11.89)	A26106-ND	.25	.13	640432-3
		4	.624 (15.85)	A24013-ND	.26	.24	640432-4
		5	.780 (19.81)	A26107-ND	.52	.48	640432-5
		6	.936 (23.77)	A24014-ND	.34	.31	640432-6
		7	1.092 (27.74)	A26108-ND	.67	.60	640432-7
		8	1.248 (31.7)	A26109-ND	.76	.69	640432-8
		9	1.404 (35.66)	A26110-ND	.86	.78	640432-9
		10	1.560 (39.62)	A26111-ND	.95	.86	1-640432-0
		11	1.716 (43.59)	A26112-ND	1.05	.95	1-640432-1
		12	1.872 (47.55)	A26113-ND	1.14	1.03	1-640432-2
		17	2.652 (67.36)	A24015-ND	.78	.70	1-640432-7

(Continued)

MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Receptacles, .156” (3.96mm) centers (Cont.)							
1	Closed End w/out Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A26114-ND	.21	.19	644462-2
		3	.468 (11.89)	A24016-ND	.25	.23	644462-3
		4	.624 (15.85)	A24017-ND	.26	.24	644462-4
		5	.780 (19.81)	A26115-ND	.52	.48	644462-5
		6	.936 (23.77)	A24018-ND	.34	.31	644462-6
		7	1.092 (27.74)	A26116-ND	.67	.60	644462-7
		8	1.248 (31.7)	A26117-ND	.76	.69	644462-8
		9	1.404 (35.66)	A26118-ND	.86	.78	644462-9
		10	1.560 (39.62)	A26119-ND	.95	.86	1-644462-0
		11	1.716 (43.59)	A26120-ND	1.05	.95	1-644462-1
		12	1.872 (47.55)	A26121-ND	1.14	1.03	1-644462-2
1	Feed-Thru with Lock w/out Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A19680-ND	.65	.59	640600-2
		3	.468 (11.89)	A19681-ND	.25	.14	640600-3
		4	.624 (15.85)	A19682-ND	.27	.15	640600-4
		5	.780 (19.81)	A19683-ND	.52	.48	640600-5
		6	.936 (23.77)	A19684-ND	.34	.19	640600-6
		7	1.092 (27.74)	A19685-ND	.67	.60	640600-7
		8	1.248 (31.70)	A19686-ND	.76	.69	640600-8
		9	1.404 (35.66)	A19687-ND	1.31	1.19	640600-9
		10	1.560 (39.62)	A19688-ND	.95	.86	1-640600-0
		11	1.716 (43.59)	A19689-ND	1.05	.95	1-640600-1
		12	1.872 (47.55)	A19690-ND	1.14	1.03	1-640600-2
		17	2.652 (67.36)	A24075-ND	.78	.70	1-640600-7
1	Feed-Thru with Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A24146-ND	.21	.19	644466-2
		3	.468 (11.89)	A24076-ND	.25	.23	644466-3
		4	.624 (15.85)	A24077-ND	.27	.25	644466-4
		5	.780 (19.81)	A24147-ND	.52	.48	644466-5
		6	.936 (23.77)	A24078-ND	.34	.31	644466-6
		7	1.092 (27.74)	A24148-ND	.67	.60	644466-7
		8	1.248 (31.7)	A24149-ND	.76	.69	644466-8
		9	1.404 (35.66)	A24150-ND	.86	.78	644466-9
		10	1.560 (39.62)	A24151-ND	.95	.86	1-644466-0
		11	1.716 (43.59)	A26000-ND	1.05	.95	1-644466-1
		12	1.872 (47.55)	A26001-ND	1.14	1.03	1-644466-2
1	Feed-Thru w/out Lock w/out Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A26002-ND	.17	.16	640605-2
		3	.468 (11.89)	A24079-ND	.24	.22	640605-3
		4	.624 (15.85)	A24080-ND	.27	.25	640605-4
		5	.780 (19.81)	A26003-ND	.52	.48	640605-5
		6	.936 (23.77)	A24081-ND	.34	.31	640605-6
		7	1.092 (27.74)	A26047-ND	.67	.60	640605-7
		8	1.248 (31.7)	A26004-ND	.76	.69	640605-8
		9	1.404 (35.66)	A26005-ND	.86	.78	640605-9
		10	1.560 (39.62)	A26006-ND	.95	.86	1-640605-0
		11	1.716 (43.59)	A26007-ND	1.05	.95	1-640605-1
		12	1.872 (47.55)	A26008-ND	1.14	1.03	1-640605-2
		17	2.652 (67.36)	A24082-ND	.78	.70	1-640605-7
1	Feed-Thru w/out Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A26009-ND	.21	.19	644470-2
		3	.468 (11.89)	A24083-ND	.24	.22	644470-3
		4	.624 (15.85)	A24084-ND	.26	.24	644470-4
		5	.780 (19.81)	A26010-ND	.52	.48	644470-5
		6	.936 (23.77)	A24085-ND	.34	.31	644470-6
		7	1.092 (27.74)	A26011-ND	.67	.60	644470-7
		8	1.248 (31.7)	A26012-ND	.76	.69	644470-8
		9	1.404 (35.66)	A26013-ND	.86	.78	644470-9
		10	1.560 (39.62)	A26014-ND	.95	.86	1-644470-0
		11	1.716 (43.59)	A26015-ND	1.05	.95	1-644470-1
		12	1.872 (47.55)	A26016-ND	1.14	1.03	1-644470-2
1	Closed End with Lock w/out Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A1951-ND	.21	.19	640426-2
		3	.468 (11.89)	A19580-ND	.38	.12	640426-3
		4	.624 (15.85)	A1952-ND	.38	.22	640426-4
		5	.780 (19.81)	A19581-ND	.52	.48	640426-5
		6	.936 (23.77)	A1953-ND	.34	.19	640426-6
		7	1.092 (27.74)	A19582-ND	.67	.60	640426-7
		8	1.248 (31.70)	A1954-ND	.76	.69	640426-8
		9	1.404 (35.66)	A19583-ND	.86	.78	640426-9
		10	1.560 (39.62)	A1955-ND	.95	.86	1-640426-0
		11	1.716 (43.59)	A19584-ND	1.05	.95	1-640426-1
		12	1.872 (47.55)	A19585-ND	1.14	1.03	1-640426-2
		17	2.652 (67.36)	A24020-ND	.76	.69	1-640426-7
1	Closed End with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A26122-ND	.37	.19	643817-2
		3	.468 (11.89)	A24021-ND	.25	.13	643817-3
		4	.624 (15.85)	A24022-ND	.26	.24	643817-4
		5	.780 (19.81)	A26123-ND	.52	.48	643817-5
		6	.936 (23.77)	A24023-ND	.34	.31	643817-6
		7	1.092 (27.74)	A24024-ND	1.12	1.02	643817-7
		8	1.248 (31.7)	A26124-ND	.76	.69	643817-8
		9	1.404 (35.66)	A24025-ND	1.07	.97	643817-9
		10	1.560 (39.62)	A26125-ND	.95	.86	1-643817-0
		11	1.716 (43.59)	A26126-ND	1.45	1.31	1-643817-1
		12	1.872 (47.55)	A24026-ND	1.36	1.23	1-643817-2
		17	2.652 (67.36)	A24027-ND	.76	.69	1-643817-7
1	Closed End w/out Lock w/out Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A1956-ND	.21	.19	640431-2
		3	.468 (11.89)	A19650-ND	.25	.08	640431-3
		4	.624 (15.85)	A1957-ND	.26	.15	640431-4
		5	.780 (19.81)	A19651-ND	.52	.48	640431-5
		6	.936 (23.77)	A1958-ND	.34	.19	640431-6
		7	1.092 (27.74)	A19652-ND	.67	.60	640431-7
		8	1.248 (31.70)	A1959-ND	.76	.69	640431-8
1	Closed End w/out Lock w/out Polarizing Tabs, 18 AWG Orange, Tin Plated (cont.)	9	1.404 (35.66)	A19653-ND	.86	.78	640431-9
		10	1.560 (39.62)	A1960-ND	.95	.86	1-640431-0
		11	1.716 (43.59)	A19654-ND	1.05	.95	1-640431-1
		12	1.872 (47.55)	A19655-ND	1.14	1.03	1-640431-2
		17	2.652 (67.36)	A24028-ND	.76	.69	1-640431-7
1	Closed End w/out Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A26127-ND	.21	.19	644461-2
		3	.468 (11.89)	A24029-ND	.24	.22	644461-3
		4	.624 (15.85)	A24030-ND	.26	.24	644461-4
		5	.780 (19.81)	A26128-ND	.52	.48	644461-5
		6	.936 (23.77)	A24031-ND	.34	.31	644461-6
		7	1.092 (27.74)	A26129-ND	.67	.60	644461-7
		8	1.248 (31.7)	A26130-ND	.76	.69	644461-8
		9	1.404 (35.66)	A26131-ND	.86	.78	644461-9
		10	1.560 (39.62)	A26132-ND	.95	.86	1-644461-0
		11	1.716 (43.59)	A26133-ND	1.05	.95	1-644461-1
		12	1.872 (47.55)	A26134-ND	1.14	1.03	1-644461-2
1	Feed-Thru with Lock w/out Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A19660-ND	.21	.19	640599-2
		3	.468 (11.89)	A19661-ND	.24	.14	640599-3
		4	.624 (15.85)	A19662-ND	.27	.15	640599-4
		5	.780 (19.81)	A19663-ND	.52	.48	640599-5
		6	.936 (23.77)	A19664-ND	.34	.19	640599-6
		7	1.092 (27.74)	A19665-ND	1.12	1.02	640599-7
		8	1.248 (31.70)	A19666-ND	.76	.69	640599-8
		9	1.404 (35.66)	A19667-ND	.86	.78	640599-9
		10	1.560 (39.62)	A19668-ND	.95	.86	1-640599-0
		11	1.716 (43.59)	A19669-ND	1.45	1.31	1-640599-1
		12	1.872 (47.55)	A19670-ND	1.14	1.03	1-640599-2
		17	2.652 (67.36)	A24086-ND	.76	.69	1-640599-7
1	Feed-Thru with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A26017-ND	.21	.19	644465-2
		3	.468 (11.89)	A24087-ND	.24	.22	644465-3
		4	.624 (15.85)	A24088-ND	.27	.25	644465-4
		5	.780 (19.81)	A26018-ND	.52	.48	644465-5
		6	.936 (23.77)	A24089-ND	.34	.31	644465-6
		7	1.092 (27.74)	A26019-ND	.67	.60	644465-7
		8	1.248 (31.7)	A26020-ND	.76	.69	644465-8
		9	1.404 (35.66)	A26021-ND	.86	.78	644465-9
		10	1.560 (39.62)	A26022-ND	.95	.86	1-644465-0
		11	1.716 (43.59)	A26023-ND	1.05	.95	1-644465-1
		12	1.872 (47.55)	A26024-ND	1.14	1.03	1-644465-2
1	Feed-Thru w/out Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A26025-ND	.17	.16	640604-2
		3	.468 (11.89)	A24090-ND	.24	.22	640604-3
		4	.624 (15.85)	A24091-ND	.27	.25	640604-4
		5	.780 (19.81)	A24092-ND	1.01	.92	640604-5
		6	.936 (23.77)	A24093-ND	.34	.31	640604-6
		7	1.092 (27.74)	A26026-ND	.67	.60	640604-7
		8	1.248 (31.7)	A26027-ND	1.22	1.10	640604-8
		9	1.404 (35.66)	A26028-ND	.86	.78	640604-9
		10	1.560 (39.62)	A26029-ND	.95	.86	1-640604-0
		11	1.716 (43.59)	A26030-ND	1.05	.95	1-640604-1
		12	1.872 (47.55)	A24031-ND	.34	.31	1-640604-2
		17	2.652 (67.36)	A24094-ND	.76	.69	1-640604-7
1	Feed-Thru w/out Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A26032-ND	.21	.19	644469-2
		3	.468 (11.89)	A24095-ND	.24	.22	644469-3
		4	.624 (15.85)	A24096-ND	.27	.25	644469-4
		5	.780 (19.81)	A26033-ND	.52	.48	644469-5
		6	.936 (23.77)	A24097-ND	.34	.31	644469-6
		7	1.092 (27.74)	A26034-ND	.67	.60	644469-7
		8	1.248 (31.7)	A26035-ND	.76	.69	644469-8
		9	1.404 (35.66)	A26036-ND	.86	.78	644469-9
		10	1.560 (39.62)	A26037-ND	.95	.86	1-644469-0
		11	1.716 (43.59)	A26038-ND	1.05	.95	1-644469-1
		12	1.872 (47.55)	A26039-ND	1.14	1.03	1-644469-2
Replacement IDC Contacts, .156” (3.96mm) Centers							
2	Tin Plated, 18 AWG	—	—	A19820-ND	.26	.10	640631-2
	Tin Plated, 20 AWG	—	—	A19825-ND	.26	.10	640632-2
	Tin Plated, 22 AWG	—	—	A19830-ND	.26	.10	640633-2
	Tin Plated, 24 AWG	—	—	A19835-ND	.26	.10	640634-2
SL-156 Crimp Housings (Contacts Sold Separately)							
3	Without Lock Ramp Without Polarizing Tabs, UL94V-0 White	2	.308 (7.82)	A19970-ND	.32	.13	640251-2
		3	.465 (11.81)	A19971-ND	.29	.15	640251-3
		4	.620 (15.75)	A19972-ND	.32	.20	640251-4
		5	.777 (19.74)	A19973-ND	.36	.25	640251-5
		6	.933 (23.70)	A19974-ND	.27	.13	640251-6
		7	1.090 (27.69)	A19975-ND	.44	.34	640251-7
		8	1.246 (31.65)	A19976-ND	.47	.39	640251-8
		9	1.402 (35.61)	A19977-ND	.49	.44	640251-9
		10	1.558 (39.57)	A19978-ND	.54	.49	1-640251-0
		11	1.715 (43.56)	A19979-ND	.59	.54	1-640251-1
		12	1.871 (47.52)	A19980-ND	1.01	.91	1-640251-2
		13	2.027 (51.49)	A24128-ND	.70	.64	1-640251-3
		14	2.183 (55.45)	A24129-ND	.75	.68	1-640251-4
		16	2.496 (63.40)	A24130-ND	.86	.78	1-640251-6
4	With Lock Ramp Without Polarizing Tabs, UL94V-0 White	2	.308 (7.82)	A19950-ND	.32	.13	640250-2
		3	.465 (11.81)	A19951-ND	.18	.06	640250-3
		4	.620 (15.75)	A19952-ND	.32	.20	640250-4
		5	.777 (19.74)	A19953-ND	.22	.10	640250-5
		6	.933 (23.70)	A19954-ND	.23	.11	640250-6

(Continued)

MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
SL-156 Crimp Housings (Contacts Sold Separately) Continued							
4	With Lock Ramp Without Polarizing Tabs, UL94V-0 White (cont.)	7	1.090 (27.69)	A19955-ND	.24	.12	640250-7
		8	1.246 (31.65)	A19956-ND	.29	.15	640250-8
		9	1.402 (35.61)	A19957-ND	.49	.44	640250-9
		10	1.558 (39.57)	A19958-ND	.54	.49	1-640250-0
		11	1.715 (43.56)	A19959-ND	.59	.54	1-640250-1
		12	1.871 (47.52)	A19960-ND	.40	.22	1-640250-2
		13	2.027 (51.49)	A28761-ND	.70	.64	1-640250-3
		14	2.183 (55.45)	A24126-ND	.75	.68	1-640250-4
		16	2.496 (63.40)	A24127-ND	.86	.78	1-640250-6
5	With Lock Ramp With Polarizing Tabs, UL94V-0 White	2	.308 (7.82)	A24111-ND	.25	.10	770849-2
		3	.465 (11.81)	A24112-ND	.24	.15	770849-3
		4	.620 (15.75)	A24113-ND	.22	.20	770849-4
		5	.777 (19.74)	A24114-ND	.18	.16	770849-5
		6	.933 (23.70)	A24115-ND	.32	.30	770849-6
		7	1.090 (27.69)	A24116-ND	.38	.34	770849-7
		8	1.246 (31.65)	A24117-ND	.43	.39	770849-8
		9	1.402 (35.61)	A24118-ND	.37	.33	770849-9
		10	1.558 (39.57)	A24119-ND	.54	.49	1-770849-0
		11	1.715 (43.56)	A24120-ND	.59	.54	1-770849-1
		12	1.871 (47.52)	A24121-ND	.65	.59	1-770849-2
		13	2.027 (51.49)	A24122-ND	.70	.64	1-770849-3
		14	2.183 (55.45)	A24123-ND	.75	.68	1-770849-4
		16	2.496 (63.40)	A24124-ND	.86	.78	1-770849-6

Fig.	Description	Digi-Key Part No.	Loose Pc. Price Each 1	25	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Amp Part No.
SL-156 Crimp Contacts									
6	Brass, Tin Plated, 6.5 A	A19990-ND —	.31 —	.23 —	640706-1 —	A19990CT-ND A19990TR-ND	4.19 146.58/7,000	19.20	640252-1
	Brass, Pre-Tin Pltd., 6.5 A	A19991-ND —	.26 —	.17 —	640706-2 —	A19991CT-ND A19991TR-ND	3.35 117.39/7,000	15.37	640252-2
7	Brass, Tin Plated, 6.5 A	A19992-ND —	.32 —	.22 —	640707-1 —	A19992CT-ND A19992TR-ND	4.19 125.64/6,000	19.20	350980-1
	Brass, Pre-Tin Pltd. 6.5 A	— —	— —	— —	— —	A24203CT-ND A24203TR-ND	3.35 100.62/6,000	15.37	350980-2
	Brass, Gold Plated, 6.5 A	A24205-ND —	.60 —	.41 —	770258-1 —	A24205CT-ND A24205TR-ND	20.37 611.10/6,000	93.36	350980-3
8	Phosphor Bronze, Tin Plated, Hooded, 10 A	A19993-ND —	.32 —	.22 —	770522-1 —	A19993CT-ND A19993TR-ND	4.60 126.47/5,500	21.08	770476-1
	Phosphor Bronze, Gold Plated, Hooded, 10 A	A24208-ND —	— —	— —	770522-2 —	A24208CT-ND A24208TR-ND	13.10 360.28/5,500	60.05	770476-2

Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
SL-156 Keying Plugs and Pins							
—	Plug, Keying	—	—	A19994-ND	.21	.05	640254-1
—	Pin, Keying	—	—	A19995-ND	.23	.08	640255-1
Accessories, .156” (3.96mm) Centers							
9	Closed End Strain Relief Covers, White	2	.312 (7.92)	A19740-ND	.33	.19	643067-2
		3	.468 (11.89)	A19741-ND	1.06	.96	643067-3
		4	.624 (15.85)	A19742-ND	1.06	.96	643067-4
		5	.780 (19.81)	A19743-ND	1.07	.97	643067-5
		6	.936 (23.77)	A19744-ND	1.07	.97	643067-6
		7	1.092 (27.74)	A19745-ND	1.08	.97	643067-7
		8	1.248 (31.70)	A19746-ND	1.08	.98	643067-8
		9	1.404 (35.66)	A19747-ND	1.08	.98	643067-9
		10	1.560 (39.62)	A19748-ND	1.09	.98	1-643067-0
		11	1.716 (43.59)	A19749-ND	1.17	1.06	1-643067-1
		12	1.872 (47.55)	A19750-ND	1.10	.99	1-643067-2
		13	2.028 (51.51)	A24108-ND	1.18	1.06	1-643067-3
		17	2.652 (67.36)	A24109-ND	1.11	1.01	1-643067-7
10	Closed End Dust Covers, White	2	.312 (7.92)	A19760-ND	.25	.12	640551-2
		3	.468 (11.89)	A19761-ND	.29	.15	640551-3
		4	.624 (15.85)	A19762-ND	.34	.18	640551-4
		5	.780 (19.81)	A19763-ND	.26	.20	640551-5
		6	.936 (23.77)	A19764-ND	.28	.23	640551-6
		7	1.092 (27.74)	A19765-ND	.29	.26	640551-7
		8	1.248 (31.70)	A19766-ND	.31	.29	640551-8
		9	1.404 (35.66)	A19767-ND	.35	.32	640551-9
		10	1.560 (39.62)	A19768-ND	.38	.34	1-640551-0
		11	1.716 (43.59)	A19769-ND	.40	.37	1-640551-1
		12	1.872 (47.55)	A19770-ND	.43	.39	1-640551-2
11	Feed-Thru Strain Relief Covers, White	2	.312 (7.92)	A19780-ND	.24	.22	643071-2
		3	.468 (11.89)	A19781-ND	.35	.32	643071-3
		4	.624 (15.85)	A19782-ND	.47	.43	643071-4
		5	.780 (19.81)	A19783-ND	.88	.80	643071-5
		6	.936 (23.77)	A19784-ND	.57	.52	643071-6
		7	1.092 (27.74)	A19785-ND	1.12	1.01	643071-7
		8	1.248 (31.70)	A19786-ND	.71	.65	643071-8
		9	1.404 (35.66)	A19787-ND	.75	.68	643071-9
		10	1.560 (39.62)	A19788-ND	1.17	1.06	1-643071-0
		11	1.716 (43.59)	A19789-ND	1.09	.99	1-643071-1
		12	1.872 (47.55)	A19790-ND	1.17	1.06	1-643071-2
		15	2.340 (59.44)	A24110-ND	1.19	1.07	1-643071-5
		17	2.652 (67.36)	A26040-ND	1.11	1.01	1-643071-7
12	Feed-Thru Dust Covers, White	3	.468 (11.89)	A19801-ND	.26	.15	640643-3
		4	.624 (15.85)	A19802-ND	.28	.18	640643-4
		5	.780 (19.81)	A19803-ND	.32	.20	640643-5
		6	.936 (23.77)	A19804-ND	.19	.14	640643-6
		7	1.092 (27.74)	A19805-ND	.38	.26	640643-7
		8	1.248 (31.70)	A19806-ND	.24	.17	640643-8
12	Feed-Thru Dust Covers, White	9	1.404 (35.66)	A19807-ND	.46	.32	640643-9
		10	1.560 (39.62)	A19808-ND	.50	.34	1-640643-0
		11	1.716 (43.59)	A19809-ND	.54	.37	1-640643-1
		12	1.872 (47.55)	A19810-ND	.58	.39	1-640643-2
Keying Plugs							
13	Loose Piece, Flush Used w/Keyed Headers	—	—	A19845-ND	.26	.13	640629-1
14	On Carrier Strip, Flush 10 per Strip	—	—	A19840-ND	.26	.13	641623-1
15	Long Nose Used with Staked Post	—	—	A19850-ND	.24	.12	640630-1
Panel Mount End Caps							
16	Black Nylon	2	—	A19860-ND	.48	.43	641533-1
17	Black Nylon	3-24	—	A19855-ND	.66	.60	641440-1
Flat Post Headers, .156” (3.96mm) Centers							
18	Straight Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1961-ND	.25	.15	640383-2
		3	.468 (11.89)	A19870-ND	.53	.41	640383-3
		4	.624 (15.85)	A1962-ND	.31	.29	640383-4
		5	.780 (19.81)	A19871-ND	.39	.36	640383-5
		6	.936 (23.77)	A1963-ND	.43	.39	640383-6
		7	1.092 (27.74)	A19872-ND	.50	.45	640383-7
		8	1.248 (31.70)	A1964-ND	.57	.52	640383-8
		9	1.404 (35.66)	A19873-ND	.64	.58	640383-9
		10	1.560 (39.62)	A1965-ND	.71	.65	1-640383-0
		11	1.716 (43.59)	A19874-ND	.79	.71	1-640383-1
		12	1.872 (47.55)	A19875-ND	.86	.78	1-640383-2
		17	2.652 (67.36)	A26167-ND	1.52	1.37	1-640383-7
18	Straight Post .045” (1.14mm) Round, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A26168-ND	.30	.28	640384-2
		3	.468 (11.89)	A26169-ND	.24	.22	640384-3
		4	.624 (15.85)	A24152-ND	.60	.55	640384-4
		5	.780 (19.81)	A26170-ND	.39	.36	640384-5
		6	.936 (23.77)	A26171-ND	.82	.75	640384-6
		7	1.092 (27.74)	A26172-ND	.50	.45	640384-7
		8	1.248 (31.7)	A24153-ND	1.10	.99	640384-8
		9	1.404 (35.66)	A26173-ND	1.24	1.12	640384-9
		10	1.560 (39.62)	A24154-ND	1.37	1.24	1-640384-0
		12	1.872 (47.55)	A26174-ND	.93	.84	1-640384-2
19	Right Angle Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1966-ND	.10	.05	640385-2
		3	.468 (11.89)	A19876-ND	.10	.06	640385-3
		4	.624 (15.85)	A1967-ND	.14	.08	640385-4
		5	.780 (19.81)	A19877-ND	.18	.11	640385-5
		6	.936 (23.77)	A1968-ND	.21	.12	640385-6
		7	1.092 (27.74)	A19878-ND	.23	.13	640385-7
		8	1.248 (31.70)	A1969-ND	.29	.17	640385-8
		9	1.404 (35.66)	A19879-ND	.86	.78	640385-9
		10	1.560 (39.62)	A1970-ND	.33	.19	1-640385-0
		11	1.716 (43.59)	A19880-ND	1.05	.95	1-640385-1
		12	1.872 (47.55)	A19881-ND	.40	.22	1-640385-2
18	Right Angle Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, White	2	.312 (7.92)	A24155-ND	.09	.08	644751-2
		3	.468 (11.89)	A24156-ND	.10	.09	644751-3
		4	.624 (15.85)	A24157-ND	.14	.13	644751-4
		5	.780 (19.81)	A24158-ND	.18	.17	644751-5
		6	.936 (23.77)	A24159-ND	.21	.20	644751-6
		7	1.092 (27.74)	A24160-ND	.23	.21	644751-7
		8	1.248 (31.7)	A24161-ND	.29	.27	644751-8
		10	1.560 (39.62)	A24162-ND	.33	.31	1-644751-0
		12	1.872 (47.55)	A24163-ND	.40	.36	1-644751-2
Straight Post Headers, .156” (3.96mm) Centers, Friction Lock Header							
20	Square Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1971-ND	.10	.05	640445-2
		3	.468 (11.89)	A19890-ND	.10	.06	640445-3
		4	.624 (15.85)	A1972-ND	.14	.08	640445-4
		5	.780 (19.81)	A19891-ND	.18	.11	640445-5
		6	.936 (23.77)	A1973-ND	.21	.12	640445-6
		7	1.092 (27.74)	A19892-ND	.23	.13	640445-7
		8	1.248 (31.70)	A1974-ND	.29	.17	640445-8
		9	1.404 (35.66)	A19893-ND	.86	.78	640445-9
		10	1.560 (39.62)	A1975-ND	.33	.19	1-640445-0
		11	1.716 (43.59)	A19894-ND	1.05	.95	1-640445-1
		12	1.872 (47.55)	A19895-ND	.40	.22	1-640445-2
20	Square Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, White	2	.312 (7.92)	A24164-ND	.10	.09	644752-2
		3	.468 (11.89)	A24165-ND	.10	.09	644752-3
		4	.624 (15.85)	A24166-ND	.14	.13	644752-4
		5	.780 (19.81)	A24167-ND	.18	.17	644752-5
		6	.936 (23.77)	A24168-ND	.21	.20	644752-6
		7	1.092 (27.74)	A24169-ND	.23	.21	644752-7
		8	1.248 (31.7)	A24170-ND	.29	.27	644752-8
		9	1.404 (35.66)	A26175-ND	.86	.78	644752-9
		10	1.560 (39.62)	A24171-ND	.33	.31	1-644752-0
		12	1.872 (47.55)	A24172-ND	.40	.36	1-644752-2
20	Square Post .045” (1.14mm) Square, Standard UL94V-0, 30µ Gold Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A24173-ND	.94	.85	641208-2
		3	.468 (11.89)	A26176-ND	1.06	.96	641208-3
		4	.624 (15.85)	A26177-ND	1.38	1.25	641208-4
		5	.780 (19.81)	A26178-ND	1.77	1.60	641208-5
		6	.936 (23.77)	A26179-ND	2.15	1.94	641208-6
		7	1.092 (27.74)	A26180-ND	2.44	2.20	641208-7
		8	1.248 (31.70)	A26181-ND	2.83	2.55	641208-8
		9	1.404 (35.66)	A26182-ND	3.18	2.87	641208-9
		10	1.560 (39.62)	A26183-ND	3.50	3.16	1-641208-0
		11	1.716 (43.59)	A26184-ND	3.86	3.48	1-641208-1
		12	1.872 (47.55)	A26185-ND	4.21	3.79	1-641208-2
		17	2.652 (67.36)	A26186-ND	6.07	5.47	1-641208-7

(Continued)

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MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Straight Post Headers, .156” (3.96mm) Centers, Friction Lock Header							
20	Round Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A19900-ND	.10	.05	640388-2
		3	.468 (11.89)	A19901-ND	.10	.06	640388-3
		4	.624 (15.85)	A19902-ND	.14	.08	640388-4
		5	.780 (19.81)	A19903-ND	.18	.11	640388-5
		6	.936 (23.77)	A19904-ND	.21	.12	640388-6
		7	1.092 (27.74)	A19905-ND	.23	.13	640388-7
		8	1.248 (31.70)	A19906-ND	.29	.17	640388-8
		9	1.404 (35.66)	A19907-ND	.86	.78	640388-9
		10	1.560 (39.62)	A19908-ND	.33	.19	1-640388-0
		11	1.716 (43.59)	A19909-ND	2.01	1.82	1-640388-1
		12	1.872 (47.55)	A19910-ND	.40	.22	1-640388-2
20	Round Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, White	2	.312 (7.92)	A24176-ND	.09	.08	644753-2
		3	.468 (11.89)	A24177-ND	.10	.09	644753-3
		4	.624 (15.85)	A24178-ND	.14	.13	644753-4
		5	.780 (19.81)	A24179-ND	.18	.17	644753-5
		6	.936 (23.77)	A24180-ND	.21	.20	644753-6
		7	1.092 (27.74)	A24181-ND	.23	.21	644753-7
		8	1.248 (31.7)	A24182-ND	.29	.27	644753-8
		10	1.560 (39.62)	A24183-ND	.33	.31	1-644753-0
		12	1.872 (47.55)	A24184-ND	.40	.36	1-644753-2
Right Angle Post Headers, .156” (3.96mm) Centers, Friction Lock Header							
21	Right Angle Post 045 (1.14mm) Square, Front Bend, Standard UL94V-0, Tin-Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1976-ND	.31	.29	640389-2
		3	.468 (11.89)	A19920-ND	.47	.43	640389-3
		4	.624 (15.85)	A1977-ND	.63	.57	640389-4
		5	.780 (19.81)	A19921-ND	.79	.71	640389-5
		6	.936 (23.77)	A1978-ND	.86	.78	640389-6
		7	1.092 (27.74)	A19922-ND	1.00	.90	640389-7
		8	1.248 (31.70)	A1979-ND	1.14	1.03	640389-8
		9	1.404 (35.66)	A19923-ND	1.29	1.16	640389-9
		10	1.560 (39.62)	A1980-ND	1.43	1.29	1-640389-0
		11	1.716 (43.59)	A19924-ND	1.57	1.42	1-640389-1
		12	1.872 (47.55)	A19925-ND	1.71	1.55	1-640389-2
21	Right Angle Post .045” (1.14mm) Square, Front Bend, Standard UL94V-0, 30µ Gold Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A24174-ND	1.05	.95	641210-2
		3	.468 (11.89)	A24175-ND	1.22	1.10	641210-3
		4	.624 (15.85)	A26187-ND	1.57	1.42	641210-4
		5	.780 (19.81)	A26188-ND	1.90	1.71	641210-5
		6	.936 (23.77)	A26189-ND	2.31	2.09	641210-6
		8	1.248 (31.70)	A26190-ND	2.96	2.67	641210-8
		9	1.404 (35.66)	A26191-ND	3.28	2.95	641210-9
		10	1.560 (39.62)	A24186-ND	3.48	3.14	1-641210-0
		12	1.872 (47.55)	A26192-ND	4.40	3.97	1-641210-2
22	Right Angle Post .045” (1.14mm) Square, Rear Bend, Standard UL94V-0, Tin-Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A19930-ND	.60	.55	640387-2
		3	.468 (11.89)	A19931-ND	.47	.43	640387-3
		4	.624 (15.85)	A19932-ND	.63	.57	640387-4
		5	.780 (19.81)	A19933-ND	.79	.71	640387-5
		6	.936 (23.77)	A19934-ND	.86	.78	640387-6
		7	1.092 (27.74)	A19935-ND	1.00	.90	640387-7
		8	1.248 (31.70)	A19936-ND	1.14	1.03	640387-8
		9	1.404 (35.66)	A19937-ND	1.29	1.16	640387-9
		10	1.560 (39.62)	A19938-ND	1.43	1.29	1-640387-0
		11	1.716 (43.59)	A19939-ND	1.57	1.42	1-640387-1
		12	1.872 (47.55)	A19940-ND	1.71	1.55	1-640387-2

AMP tyco Electronics Authorized Distributor

2-Position, Low Profile Post Shunts

Material: Housing: Glass-filled thermoplastic, 94V-0 rated **Contact:** Beryllium copper or phosphor bronze **Finish:** (50µ) nickel with gold plate in contact area or tin plate overall

Fig. 1

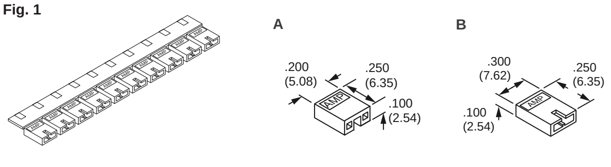


Fig. 2

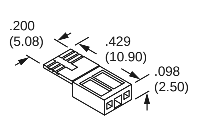


Fig. 3

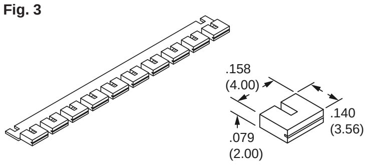


Fig.	Description	Housing Color	Digi-Key Part No.	Price Each 10	Price Each 50	AMP Part No.
Economy, .100 (2.54) Centerline						
1A	Strip of 10, Gold Flash, (5µ) over Nickel	Black	A26228-ND	.09	.08	382811-8
	Strip of 10, Gold Plate, (15µ) over Nickel	Blue	A26226-ND	.33	.26	382811-2
	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26227-ND	.09	.07	382811-6
	Strip of 10, Gold Plate, (15µ) over Nickel	Red	A26230-ND	.12	.09	382811-9
	Loose Piece, Gold Plate, (15µ) over Nickel	Black	A26231-ND	.34	.27	1-382811-6
	Strip of 10, Tin Plate, (100µ) over Nickel	Black	A26229-ND	.10	.08	382811-5
Standard Housing, .200 (5.08) Centerline						
1B	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26232-ND	.49	.40	531230-2
	Strip of 10, Gold Plate, (30µ) over Nickel	Black	A26233-ND	.57	.45	531230-3
	Strip of 10, Tin Plate, (100µ) over Nickel	Black	A26234-ND	.42	.33	531230-1
Handle, .100 (2.54) Centerline						
2	Open Top & Gold Plate, (30µ) over Nickel	Black	A26242-ND	.12	.10	881545-2
	Open Top & Tin Plate, (100µ) over Nickel	Black	A26243-ND	.13	.11	881545-4
2mm Mini-Shunt, .079 (2.00) Centerline						
3	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26244-ND	.26	.21	382575-2

3M

Board Mount Interconnect Products

Finish Options: • 10µ” selective gold over 50µ” nickel on contact post; 100µ” 90/10 solder plate on tail portion • 100µ” 90/0 solder plate on posts and tails

2400 Series:

• Material: Glass filled polyester • Flammability: UL94V-O • Color: Gray • Phosphor bronze plating • 100µ” nickel underplating • Gold wiping area • 200µ” 60/40 tin on solder tails • Current Rating: 3 Amps • Withstanding Voltage: 100 VAC • Temperature Rating: -55°C to +105°C • UL File No. E88080, CSA File No. LR 40971

Fig.	No. of Posts	Dimensions (Inch)					Solder Plated		Gold Plated	
		L	A(ref)	B	C	D	Digi-Key Part No.	Price Each	Digi-Key Part No.	Price Each
1	36	.235	.480	.145	—	—	N/A	—	929647-09-36-ND	2.23
			.545	.210	—	—	929834-02-36-ND	1.31	929647-02-36-ND	2.41
			.745	.410	—	—	929834-03-36-ND	1.58	929647-03-36-ND	3.00
			.845	.510	—	—	929834-04-36-ND	1.75	929647-04-36-ND	3.85
			.945	.610	—	—	929834-05-36-ND	1.77	929647-05-36-ND	3.56
			1.245	.910	—	—	929834-07-36-ND	2.02	929647-07-36-ND	4.14
	36	.295	.535	.130	—	—	929400-01-36-ND	1.31	929450-01-36-ND	2.33
2	72	.235	.480	.145	—	—	929836-09-36-ND	2.48	929665-09-36-ND	3.60
			.545	.210	—	—	929836-02-36-ND	2.14	929665-02-36-ND	3.91
			.645	.310	—	—	929836-08-36-ND	2.77	929665-08-36-ND	4.22
			.745	.410	—	—	N/A	—	929665-03-36-ND	4.83
			.845	.510	—	—	929836-04-36-ND	2.83	929665-04-36-ND	6.20
			.945	.610	—	—	929836-05-36-ND	2.68	929665-05-36-ND	6.68
	72	.318	.593	.175	—	—	929710-10-36-ND	2.25	929715-10-36-ND	4.12
			.828	.410	—	—	929710-03-36-ND	3.20	929715-03-36-ND	5.37
3	36	.235	.180	.105	.070	.075	929835-01-36-ND	1.33	N/A	—
4	72	.235	.215	.140	.070	.075	929838-04-36-ND	2.75	929667-04-36-ND	5.16
			.480	.405	.070	.075	929838-02-36-ND	2.77	929667-02-36-ND	6.20
5	36	.295	3.600	—	—	—	929500-01-36-ND	1.46	929550-01-36-ND	2.89
6	36	N/A	—	.125	—	—	929974-01-36-ND	1.87	929850-01-36-ND	2.41
7	72	N/A	—	—	—	—	929975-01-36-ND	3.24	929852-01-36-ND	4.62
8	2	N/A	***SHUNTS!!***				929950-00-ND	2.29 per 10	929955-06-ND (10µ in. gold)	2.70 per 10
									929957-08-ND (30µ in. gold)	3.12 per 10

Fig. 1 – Straight, Single Row Male

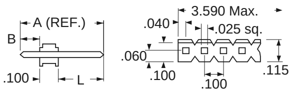


Fig. 2 – Straight, Dual Row Male (.1” x .1” Matrix)

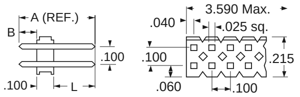


Fig. 3 – Right Angle, Single Row Male

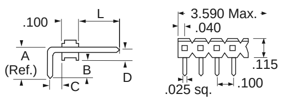


Fig. 4 – Right Angle, Dual Row Male (.1” x .1” Matrix)

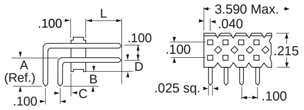


Fig. 5 – Right Angle, Polarized Male (36 Circuits)

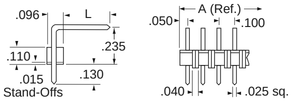


Fig. 6 – Straight, Single Row Female

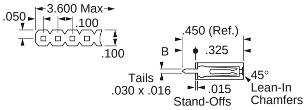


Fig. 7 – Straight, Dual Row Female (.1” x .1” Matrix)

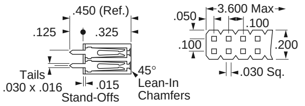
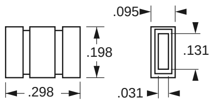


Fig. 8 – Shorting Jumpers



.100” (2.54mm) Center Headers

.025” (.64mm) Square Pins The Molex KK® Concept utilizes a double cantilever contact design in mating with P.C. board pins. UL Recognized (File #29179), CSA Recognized (File 19980) **Voltage Rating:** 250 VAC max. **Current Rating:** Up to 2.5 Amps (with 22 AWG wire) **Resistance:** 20mΩ max. **Dielectric Withstanding Voltage:** 1500 VAC for 60 seconds **Storage Temp.:** -40°C to 105°C **Material:** 94V-0

Fig. 1 - Straight Header

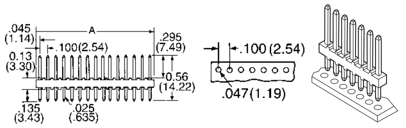


Fig. 2 - Right Angle Header

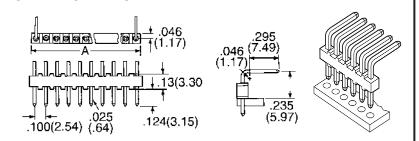


Fig. 3 - Straight-Friction Lock Header

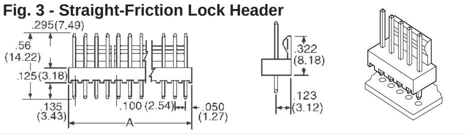


Fig. 4 - Right Angle-Friction Lock Header

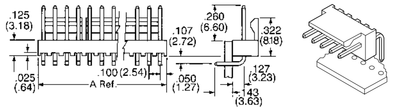


Fig. 5 - Center Crimp Terminal Housing
(contacts sold separately)

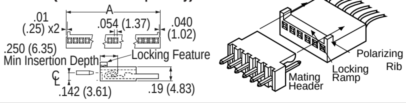
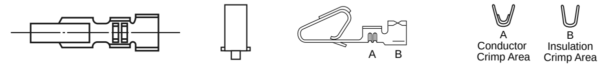


Fig.	Circuits	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Molex Part No.
.100” (2.54mm) Center Headers Tin Plating									
1	2	.190 (4.83)	WM4000-ND	.25	2.25	14.97	59.89	99.42	22-03-2021
	3	.290 (7.37)	WM4001-ND	.38	3.32	22.16	88.62	147.11	22-03-2031
	4	.390 (9.91)	WM4002-ND	.47	4.12	27.48	109.92	182.47	22-03-2041
	5	.490 (12.45)	WM4003-ND	.56	4.92	32.78	131.12	217.66	22-03-2051
	6	.590 (14.99)	WM4004-ND	.65	5.72	38.13	152.53	253.20	22-03-2061
	7	.690 (17.53)	WM4005-ND	.74	6.57	43.81	175.22	290.87	22-03-2071
	8	.790 (20.07)	WM4006-ND	.74	6.57	43.81	175.22	290.87	22-03-2081
	9	.890 (22.61)	WM4007-ND	.83	7.29	48.63	194.51	322.89	22-03-2091
	10	.990 (25.15)	WM4008-ND	.83	7.31	48.73	194.93	323.58	22-03-2101
	11	1.090 (27.69)	WM4009-ND	.91	8.03	53.53	214.12	355.44	22-03-2111
	12	1.190 (30.23)	WM4010-ND	.98	8.68	57.85	231.40	384.12	22-03-2121
2	2	.190 (4.83)	WM4100-ND	.31	2.70	18.02	72.08	119.65	22-05-2021
	3	.290 (7.37)	WM4101-ND	.40	3.55	23.67	94.66	157.14	22-05-2031
	4	.390 (9.91)	WM4102-ND	.51	4.46	29.76	119.04	197.61	22-05-2041
	5	.490 (12.45)	WM4103-ND	.61	5.37	35.83	143.31	237.89	22-05-2051
	6	.590 (14.99)	WM4104-ND	.71	6.28	41.90	167.59	278.20	22-05-2061
	7	.690 (17.53)	WM4105-ND	.81	7.14	47.62	190.48	316.20	22-05-2071
	8	.790 (20.07)	WM4106-ND	.92	8.11	54.06	216.24	358.96	22-05-2081
	9	.890 (22.61)	WM4107-ND	1.03	9.06	60.39	241.57	401.01	22-05-2091
	10	.990 (25.15)	WM4108-ND	1.03	9.08	60.53	242.10	401.89	22-05-2101
	11	1.090 (27.69)	WM4109-ND	1.13	9.93	66.22	264.89	439.72	22-05-2111
	12	1.190 (30.23)	WM4110-ND	1.21	10.67	71.13	284.50	472.27	22-05-2121
3	2	.200 (5.08)	WM4200-ND	.31	2.70	18.02	72.08	119.65	22-23-2021
	3	.300 (7.62)	WM4201-ND	.39	3.44	22.92	91.69	152.21	22-23-2031
	4	.400 (10.16)	WM4202-ND	.47	4.12	27.48	109.92	182.47	22-23-2041
	5	.500 (12.70)	WM4203-ND	.54	4.75	31.70	126.78	210.45	22-23-2051
	6	.600 (15.24)	WM4204-ND	.60	5.32	35.48	141.93	235.60	22-23-2061
	7	.700 (17.78)	WM4205-ND	.69	6.12	40.78	163.13	270.80	22-23-2071
	8	.800 (20.32)	WM4206-ND	.78	6.92	46.11	184.44	306.17	22-23-2081
	9	.900 (22.86)	WM4207-ND	.87	7.65	51.01	204.05	338.72	22-23-2091
	10	1.000 (25.40)	WM4208-ND	.87	7.71	51.41	205.64	341.36	22-23-2101
	11	1.100 (27.94)	WM4209-ND	.96	8.43	56.21	224.83	373.22	22-23-2111
	12	1.200 (30.48)	WM4210-ND	1.03	9.08	60.53	242.10	401.89	22-23-2121
4	2	.200 (5.08)	WM4300-ND	.50	4.41	29.39	117.55	195.13	22-05-3021
	3	.300 (7.62)	WM4301-ND	.65	5.72	38.13	152.53	253.20	22-05-3031
	4	.400 (10.16)	WM4302-ND	.80	7.08	47.20	188.79	313.39	22-05-3041
	5	.500 (12.70)	WM4303-ND	.87	7.65	51.01	204.05	338.72	22-05-3051
	6	.600 (15.24)	WM4304-ND	.96	8.45	56.31	225.25	373.92	22-05-3061
	7	.700 (17.78)	WM4305-ND	1.10	9.74	64.95	259.81	431.28	22-05-3071
	8	.800 (20.32)	WM4306-ND	1.14	10.10	67.34	269.35	447.12	22-05-3081
	9	.900 (22.86)	WM4307-ND	1.18	10.44	69.62	278.46	462.24	22-05-3091
	10	1.000 (25.40)	WM4308-ND	1.20	10.55	70.36	281.43	467.17	22-05-3101
	11	1.100 (27.94)	WM4309-ND	1.31	11.52	76.82	307.29	510.10	22-05-3111
	12	1.200 (30.48)	WM4310-ND	1.34	11.81	78.73	314.93	522.78	22-05-3121
.100” (2.54mm) Center Header Gold Plating									
1	2	.190 (4.83)	WM2722-ND	.56	4.98	33.18	132.71	220.30	22-10-2021
	3	.290 (7.37)	WM2723-ND	.78	6.86	45.71	182.85	303.53	22-10-2031
	4	.390 (9.91)	WM2724-ND	1.00	8.85	59.02	236.06	391.86	22-10-2041
	5	.490 (12.45)	WM2725-ND	1.23	10.84	72.29	289.17	480.02	22-10-2051
	6	.590 (14.99)	WM2726-ND	1.45	12.78	85.20	340.79	565.71	22-10-2061
	7	.690 (17.53)	WM2727-ND	1.60	14.15	94.31	377.25	626.24	22-10-2071
	8	.790 (20.07)	WM2728-ND	1.82	16.08	107.19	428.77	711.76	22-10-2081
	9	.890 (22.61)	WM2729-ND	2.04	17.99	119.97	479.86	796.57	22-10-2091
	10	.990 (25.15)	WM2730-ND	2.25	19.84	132.29	529.15	878.39	22-10-2101
	11	1.090 (27.69)	WM2731-ND	2.48	21.86	145.72	582.89	967.60	22-10-2111
	12	1.190 (30.23)	WM2732-ND	2.68	23.69	157.91	631.65	1048.54	22-10-2121
2	2	.190 (4.83)	WM2733-ND	.60	5.26	35.09	140.34	232.96	22-12-2021
	3	.290 (7.37)	WM2734-ND	.82	7.25	48.36	193.45	321.13	22-12-2031
2	4	.390 (9.91)	WM2735-ND	1.03	9.08	60.53	242.10	401.89	22-12-2041
	5	.490 (12.45)	WM2736-ND	1.26	11.13	74.17	296.69	492.51	22-12-2051
	6	.590 (14.99)	WM2737-ND	1.50	13.23	88.22	352.87	585.76	22-12-2061
	7	.690 (17.53)	WM2738-ND	1.73	15.28	101.87	407.46	676.38	22-12-2071
	8	.790 (20.07)	WM2739-ND	1.97	17.37	115.78	463.11	768.76	22-12-2081
	9	.890 (22.61)	WM2740-ND	2.20	19.43	129.56	518.23	860.26	22-12-2091
	10	.990 (25.15)	WM2741-ND	2.43	21.43	142.86	571.45	948.61	22-12-2101
	11	1.090 (27.69)	WM2742-ND	2.66	23.47	156.48	625.93	1039.04	22-12-2111
	12	1.190 (30.23)	WM2743-ND	2.84	25.09	167.30	669.18	1110.84	22-12-2121
3	2	.200 (5.08)	WM2700-ND	.62	5.49	36.60	146.39	243.01	22-11-2022
	3	.300 (7.62)	WM2701-ND	.95	8.39	55.94	223.77	371.46	22-11-2032
	4	.400 (10.16)	WM2702-ND	.98	8.62	57.48	229.91	381.65	22-11-2042
	5	.500 (12.70)	WM2703-ND	1.34	11.87	79.10	316.41	525.24	22-11-2052
	6	.600 (15.24)	WM2704-ND	1.47	13.01	86.71	346.83	575.74	22-11-2062
	7	.700 (17.78)	WM2705-ND	1.70	14.99	99.96	399.83	663.72	22-11-2072
	8	.800 (20.32)	WM2706-ND	1.77	15.63	104.17	416.69	691.71	22-11-2082
	9	.900 (22.86)	WM2707-ND	1.98	17.50	116.68	466.72	774.76	22-11-2092
	10	1.000 (25.40)	WM2708-ND	2.19	19.32	128.82	515.27	855.35	22-11-2102
	11	1.100 (27.94)	WM2709-ND	2.40	21.20	141.33	565.30	938.40	22-11-2112
	12	1.200 (30.48)	WM2710-ND	2.61	23.02	153.49	613.95	1019.16	22-11-2122
4	2	.200 (5.08)	WM2711-ND	1.05	9.31	62.04	248.15	411.93	22-12-2024
	3	.300 (7.62)	WM2712-ND	1.32	11.69	77.94	311.75	517.51	22-12-2034
	4	.400 (10.16)	WM2713-ND	1.55	13.69	91.27	365.06	606.00	22-12-2044
	5	.500 (12.70)	WM2714-ND	1.70	14.99	99.96	399.83	663.72	22-12-2054
	6	.600 (15.24)	WM2715-ND	1.84	16.25	108.33	433.33	719.33	22-12-2064
	7	.700 (17.78)	WM2716-ND	2.00	17.65	117.66	470.64	781.26	22-12-2074
	8	.800 (20.32)	WM2717-ND	2.08	18.36	122.40	489.61	812.75	22-12-2084
	9	.900 (22.86)	WM2718-ND	2.33	20.55	137.03	548.13	909.90	22-12-2094
	10	1.000 (25.40)	WM2719-ND	2.58	22.74	151.58	606.32	1006.49	22-12-2104
	11	1.100 (27.94)	WM2720-ND	2.83	24.94	166.29	665.15	1104.15	22-12-2114
	12	1.200 (30.48)	WM2721-ND	3.08	27.16	181.05	724.19	1202.16	22-12-2124
.100” (2.54mm) Center Crimp Terminal Housing (Contacts Sold Separately Below) With Locking Ramp and Polarizing Ribs									
5	2	.220 (5.59)	WM2000-ND	.23	2.02	13.46	53.85	89.39	22-01-3027
	3	.320 (8.13)	WM2001-ND	.29	2.53	16.86	67.42	111.92	22-01-3037
	4	.420 (10.67)	WM2002-ND	.35	3.10	20.64	82.57	137.07	22-01-3047
	5	.520 (13.21)	WM2003-ND	.42	3.67	24.46	97.84	162.41	22-01-3057
	6	.620 (15.75)	WM2004-ND	.48	4.23	28.22	112.89	187.40	22-01-3067
	7	.720 (18.29)	WM2005-ND	.54	4.81	32.04	128.15	212.73	22-01-3077
	8	.820 (20.83)	WM2006-ND	.62	5.47	36.44	145.75	241.95	22-01-3087
	9	.920 (23.37)	WM2007-ND	.67	5.89	39.25	156.99	260.60	22-01-3097
	10	1.020 (25.91)	WM2008-ND	.74	6.51	43.43	173.73	288.39	22-01-3107
	11	1.120 (28.45)	WM2009-ND	.80	7.03	46.85	187.41	311.10	22-01-3117
	12	1.220 (30.99)	WM2010-ND	.85	7.54	50.25	200.98	333.63	22-01-3127
With Locking Ramp									
5	2	.220 (5.59)	WM2011-ND	.21	1.84	12.30	49.18	81.64	22-01-2027
	3	.320 (8.13)	WM2012-ND	.27	2.36	15.72	62.86	104.35	22-01-2037
	4	.420 (10.67)	WM2013-ND	.32	2.81	18.76	75.05	124.58	22-01-2047
	5	.520 (13.21)	WM2014-ND	.38	3.32	22.16	88.62	147.11	22-01-2057
	6	.620 (15.75)	WM2015-ND	.43	3.78	25.20	100.81	167.34	22-01-2067
	7	.720 (18.29)	WM2016-ND	.49	4.34	28.91	115.65	191.98	22-01-2077
	8	.820 (20.83)	WM2017-ND	.54	4.81	32.04	128.15	212.73	22-01-2087
	9	.920 (23.37)	WM2018-ND	.60	5.26	35.09	140.34	232.96	22-01-2097
	10	1.020 (25.91)	WM2019-ND	.66	5.82	38.77	155.08	257.43	22-01-2107
	11	1.120 (28.45)	WM2020-ND	.71	6.27	41.79	167.16	277.49	22-01-2117
	12	1.220 (30.99)	WM2021-ND	.77	6.78	45.18	180.73	300.01	22-01-2127
Polarizing Key for .100” Housings			WM2400-ND		1.73/10	11.56/100	46.22/500		15-04-9209
Polarizing Peg for .100” Housings			WM2401-ND		1.73/10	11.56/100	46.22/500		15-04-9210

Crimp Terminals For .100” (2.54mm) Center Housings

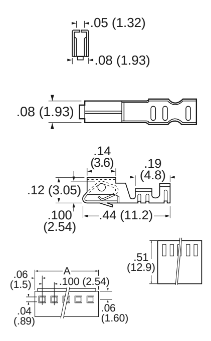
Material: Brass, Plating: 200-300µ inch Hot-Tin Dip tin plating.



Description	Wire Size	Insulation Dia. (Inch)	Finish	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
Crimp Terminals For .100 Housing	22-30	.062 Max.	Tin	WM2200-ND	.67	5.34	22.26	08-50-0114
	22-30	.062 Max.	Selective Gold	WM2312-ND WM2312CT-ND⋆ WM2312TR-ND†	2.54 — 627.60/10,000	20.32 20.32	84.66 84.66	08-55-0102 08-55-0101 08-55-0101
	22-30	.062 Max.	Gold	WM1129-ND WM1129CT-ND⋆ WM1129TR-ND†	5.21 — 2342.60/10,000	41.66 41.66	173.58 173.58	08-56-0110 08-56-0109 08-56-0109
	22-30	.062 Max.	Tin	WM1114CT-ND⋆ WM1114TR-ND†	.43 226.80/10,000	3.40	14.18	08-50-0113
Universal Crimp Tool (Molex)				WM9999-ND	38.36 each			63811-1000
Production Tool (Molex)				WM9915-ND	180.33 each			11-01-0185
Extraction Tool (Molex)				WM9927-ND	9.08 each			11-03-0022

⋆CT = Cut Tape. †TR = Tape and Reel.

.100” (2.54mm) High Pressure Terminal Housings



- Standard with locking ramp
- 94V-0 material
- Mates with .025” (0.64mm) Pins
- Up to 425 grams normal force
- Multiple contacting points
- Patented double cantilever with box shroud
- Accepts #22 to 30 AWG wire, .062” insulation dia.

Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
1	.120 (3.05)	WM2600-ND	.27	2.20	15.72	10-11-2013
2	.220 (5.59)	WM2601-ND	.22	1.90	12.69	10-11-2023
3	.320 (8.13)	WM2602-ND	.27	2.26	16.11	10-11-2033
4	.420 (10.67)	WM2603-ND	.34	2.99	19.90	10-11-2043
5	.520 (13.21)	WM2604-ND	.40	3.50	23.32	10-11-2053
6	.620 (15.75)	WM2605-ND	.45	4.01	26.71	10-11-2063
7	.720 (18.29)	WM2606-ND	.51	4.53	30.18	10-11-2073
8	.820 (20.83)	WM2607-ND	.57	5.04	33.58	10-11-2083
9	.920 (23.37)	WM2608-ND	.63	5.55	37.00	10-11-2093
10	1.020 (25.91)	WM2609-ND	.69	6.12	40.78	10-11-2103
11	1.120 (28.45)	WM2610-ND	.75	6.63	44.20	10-11-2113
12	1.220 (30.99)	WM2611-ND	.81	7.14	47.62	10-11-2123
Crimp Terminal, 22-30, Tin/Copper Plating		WM2612-ND	—	1.78	14.28	08-50-0005

molex Waldom ELECTRONICS

.156” Center Headers

.045” Square Pins

Dimensions
Shown in Inches

The Molex KK® Concept utilizes a double cantilever contact design in mating with P.C. board pins. UL Recognized (File #29179), CSA Recognized (File 19980).

• **Voltage Rating:** 250 VAC Max. • **Current Rating:** Up to 7 Amps (w/18 AWG wire) • **Resistance:** 20 milliohms max. • **Dielectric Withstanding Voltage:** 1500 VAC for 60 seconds • **Storage Temperature:** -40°C to 105°C • **Material:** 94V-0

Fig. 1 - Straight Header

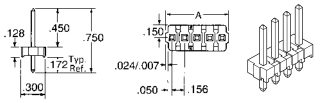


Fig. 2 - Right Angle Header

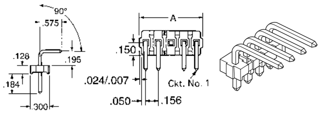


Fig. 3 - Straight-Friction Lock Header for use with Locking Ramp only

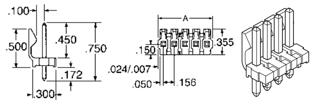


Fig. 4 - Right Angle-Friction Lock Header for use with Locking Ramp only

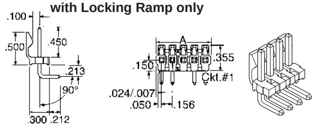


Fig. 5 - Straight Friction Lock Header for use with Locking Ramp & Polarizing Ribs

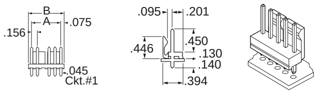


Fig. 6 - Right Angle Friction Lock Header for use with Locking Ramp & Polarizing Ribs

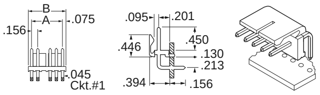


Fig. 7 - Center Crimp Terminal Housing (contacts sold separately)

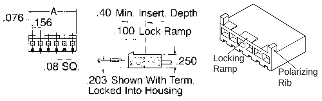


Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
.156” Center Headers								
1	2	.267	—	WM4400-ND	.33	2.96	19.70	26-48-1021
	3	.423	—	WM4401-ND	.40	3.50	23.30	26-48-1031
	4	.579	—	WM4402-ND	.46	4.04	26.90	26-48-1041
	5	.735	—	WM4403-ND	.52	4.58	30.50	26-48-1051
	6	.891	—	WM4404-ND	.58	5.12	34.10	26-48-1061
	7	1.047	—	WM4405-ND	.64	5.66	37.70	26-48-1071
	8	1.203	—	WM4406-ND	.70	6.20	41.30	26-48-1081
	9	1.359	—	WM4407-ND	.76	6.74	44.90	26-48-1091
	10	1.515	—	WM4408-ND	.82	7.28	48.50	26-48-1101
	11	1.671	—	WM4409-ND	.89	7.82	52.10	26-48-1111
	12	1.827	—	WM4410-ND	.95	8.36	55.70	26-48-1121
2	2	.267	—	WM4500-ND	.34	2.99	19.94	26-48-1022
	3	.423	—	WM4501-ND	.40	3.55	23.66	26-48-1032
	4	.579	—	WM4502-ND	.47	4.11	27.38	26-48-1042
	5	.735	—	WM4503-ND	.53	4.67	31.11	26-48-1052
	6	.891	—	WM4504-ND	.59	5.22	34.83	26-48-1062
	7	1.047	—	WM4505-ND	.66	5.78	38.55	26-48-1072
	8	1.203	—	WM4506-ND	.72	6.34	42.27	26-48-1082
	9	1.359	—	WM4507-ND	.78	6.90	45.99	26-48-1092
	10	1.515	—	WM4508-ND	.85	7.46	49.71	26-48-1102
	11	1.671	—	WM4509-ND	.91	8.01	53.43	26-48-1112
	12	1.827	—	WM4510-ND	.97	8.57	57.15	26-48-1122
3	2	.310	—	WM4600-ND	.36	3.18	21.17	26-48-1025
	3	.466	—	WM4601-ND	.43	3.83	25.51	26-48-1035
	4	.622	—	WM4602-ND	.51	4.48	29.84	26-48-1045
	5	.778	—	WM4603-ND	.58	5.13	34.18	26-48-1055
	6	.934	—	WM4604-ND	.65	5.78	38.51	26-48-1065
	7	1.090	—	WM4605-ND	.73	6.43	42.85	26-48-1075
	8	1.246	—	WM4606-ND	.80	7.08	47.18	26-48-1085
	9	1.402	—	WM4607-ND	.88	7.73	51.52	26-48-1095
	10	1.558	—	WM4608-ND	.95	8.38	55.86	26-48-1105
	11	1.714	—	WM4609-ND	1.02	9.03	60.19	26-48-1115
	12	1.870	—	WM4610-ND	1.10	9.68	64.53	26-48-1125
4	2	.310	—	WM4700-ND	.38	3.35	22.33	26-48-1026
	3	.466	—	WM4701-ND	.46	4.09	27.24	26-48-1036
	4	.622	—	WM4702-ND	.55	4.82	32.16	26-48-1046
	5	.778	—	WM4703-ND	.63	5.56	37.07	26-48-1056
	6	.934	—	WM4704-ND	.71	6.30	41.98	26-48-1066
	7	1.090	—	WM4705-ND	.80	7.03	46.90	26-48-1076
	8	1.246	—	WM4706-ND	.88	7.77	51.81	26-48-1086
	9	1.402	—	WM4707-ND	.96	8.51	56.72	26-48-1096
	10	1.558	—	WM4708-ND	1.05	9.25	61.64	26-48-1106
	11	1.714	—	WM4709-ND	1.13	9.98	66.55	26-48-1116
	12	1.870	—	WM4710-ND	1.21	10.72	71.46	26-48-1126
5	2	.156	.306	WM4620-ND	.28	2.48	16.51	26-60-4020
	3	.312	.462	WM4621-ND	.37	3.27	21.81	26-60-4030
	4	.468	.618	WM4622-ND	.46	4.07	27.14	26-60-4040
	5	.624	.774	WM4623-ND	.55	4.87	32.44	26-60-4050
	6	.780	.930	WM4624-ND	.64	5.66	37.74	26-60-4060
	7	.936	1.086	WM4625-ND	.73	6.46	43.06	26-60-4070
	8	1.092	1.242	WM4626-ND	.82	7.25	48.36	26-60-4080
	9	1.248	1.398	WM4627-ND	.91	8.06	53.72	26-60-4090
	10	1.404	1.554	WM4628-ND	1.00	8.85	59.02	26-60-4100
	11	1.560	1.710	WM4629-ND	1.09	9.65	64.32	26-60-4110
	12	1.716	1.866	WM4630-ND	1.18	10.44	69.62	26-60-4120
6	2	.156	.306	WM4640-ND	.29	2.59	17.25	26-60-5020
	3	.312	.462	WM4641-ND	.39	3.44	22.92	26-60-5030
	4	.468	.618	WM4642-ND	.49	4.30	28.65	26-60-5040
	5	.624	.774	WM4643-ND	.58	5.15	34.32	26-60-5050
	6	.780	.930	WM4644-ND	.75	6.63	44.20	26-60-5060
	7	.936	1.086	WM4645-ND	.78	6.86	45.71	26-60-5070
	8	1.092	1.242	WM4646-ND	.87	7.71	51.41	26-60-5080
	9	1.248	1.398	WM4647-ND	.97	8.57	57.11	26-60-5090
	10	1.404	1.554	WM4648-ND	1.07	9.42	62.78	26-60-5100
	11	1.560	1.710	WM4649-ND	1.16	10.27	68.48	26-60-5110
	12	1.716	1.866	WM4650-ND	1.26	11.13	74.17	26-60-5120
.156” Center Headers - Gold								
1	2	.267	—	WM5002-ND	.81	7.13	47.51	26-48-2021
	3	.423	—	WM5003-ND	1.11	9.75	65.01	26-48-2031
	4	.579	—	WM5004-ND	1.40	12.38	82.52	26-48-2041
	5	.735	—	WM5005-ND	1.70	15.00	100.02	26-48-2051
	6	.891	—	WM5006-ND	2.00	17.63	117.53	26-48-2061
	7	1.047	—	WM5007-ND	2.30	20.25	135.03	26-48-2071
	8	1.203	—	WM5008-ND	2.59	22.88	152.53	26-48-2081
	9	1.359	—	WM5009-ND	2.89	25.51	170.04	26-48-2091
	10	1.515	—	WM5010-ND	3.19	28.13	187.54	26-48-2101
	11	1.671	—	WM5011-ND	3.49	30.76	205.05	26-48-2111
	12	1.827	—	WM5012-ND	3.78	33.38	222.55	26-48-2121
2	2	.267	—	WM5102-ND	.93	8.23	54.88	26-48-2022
	3	.423	—	WM5103-ND	1.29	11.41	76.06	26-48-2032
	4	.579	—	WM5104-ND	1.65	14.59	97.25	26-48-2042
	5	.735	—	WM5105-ND	2.01	17.77	118.44	26-48-2052
	6	.891	—	WM5106-ND	2.37	20.94	139.63	26-48-2062
	7	1.047	—	WM5107-ND	2.73	24.12	160.81	26-48-2072
	8	1.203	—	WM5108-ND	3.09	27.30	182.00	26-48-2082
	9	1.359	—	WM5109-ND	3.45	30.48	203.19	26-48-2092
	10	1.515	—	WM5110-ND	3.81	33.66	224.38	26-48-2102
	11	1.671	—	WM5111-ND	4.17	36.83	245.56	26-48-2112
	12	1.827	—	WM5112-ND	4.53	40.01	266.75	26-48-2122
3	2	.310	—	WM5200-ND	.83	7.31	48.70	26-48-2025
	3	.466	—	WM5201-ND	1.14	10.02	66.80	26-48-2035
	4	.622	—	WM5202-ND	1.44	12.74	84.90	26-48-2045
	5	.778	—	WM5203-ND	1.75	15.45	103.00	26-48-2055
	6	.934	—	WM5204-ND	2.06	18.17	121.10	26-48-2065
	7	1.090	—	WM5205-ND	2.37	20.88	139.20	26-48-2075
	8	1.246	—	WM5206-ND	2.67	23.60	157.30	26-48-2085
	9	1.402	—	WM5207-ND	2.98	26.31	175.40	26-48-2095
	10	1.558	—	WM5208-ND	3.29	29.03	193.50	26-48-2105
	11	1.714	—	WM5209-ND	3.60	31.74	211.60	26-48-2115
	12	1.870	—	WM5210-ND	3.90	34.46	229.70	26-48-2125
4	2	.310	—	WM5212-ND	1.05	9.24	61.62	26-48-2026
	3	.466	—	WM5213-ND	1.47	12.93	86.18	26-48-2036
	4	.622	—	WM5214-ND	1.88	16.61	110.74	26-48-2046
	5	.778	—	WM5215-ND	2.30	20.29	135.30	26-48-2056
	6	.934	—	WM5216-ND	2.72	23.98	159.86	26-48-2066
	7	1.090	—	WM5217-ND	3.14	27.66	184.42	26-48-2076
	8	1.246	—	WM5218-ND	3.55	31.35	208.98	26-48-2086
	9	1.402	—	WM5219-ND	3.97	35.03	233.54	26-48-2096
	10	1.558	—	WM5220-ND	4.39	38.71	258.10	26-48-2106
	11	1.714	—	WM5221-ND	4.81	42.40	282.65	26-48-2116
	12	1.870	—	WM5222-ND	5.22	46.08	307.21	26-48-2126
5	2	.156	.306	WM5224-ND	.94	8.28	55.23	26-61-4020
	3	.312	.462	WM5225-ND	1.35	11.92	79.47	26-61-4030
	4	.468	.618	WM5226-ND	1.71	15.11	100.73	26-61-4040
	5	.624	.774	WM5227-ND	2.12	18.73	124.87	26-61-4050
	6	.780	.930	WM5228-ND	2.52	22.26	148.37	26-61-4060
	7	.936	1.086	WM5229-ND	2.93	25.84	172.28	26-61-4070
	8	1.092	1.242	WM5230-ND	3.31	29.22	194.83	26-61-4080
	9	1.248	1.398	WM5231-ND	3.71	32.75	218.36	26-61-4090
	10	1.404	1.554	WM5232-ND	4.12	36.34	242.26	26-61-4100
	11	1.560	1.710	WM5233-ND	4.52	39.87	265.80	26-61-4110
	12	1.716	1.866	WM5234-ND	4.94	43.55	290.31	26-61-4120
6	2	.156	.306	WM5235-ND	1.07	9.45	62.99	26-61-5020
	3	.312	.462	WM5236-ND	1.54	13.57	90.47	26-61-5030
	4	.468	.618	WM5237-ND	1.96	17.33	115.51	26-61-5040
	5	.624	.774	WM5238-ND	2.42	21.37	142.44	26-61-5050
	6	.780	.930	WM5239-ND	2.89	25.53	170.18	26-61-5060
	7	.936	1.086	WM5240-ND	3.36	29.65	197.69	26-61-5070
	8	1.092	1.242	WM5241-ND	3.82	33.69	224.62	26-61-5080
	9	1.248	1.398	WM5242-ND	4.28	37.76	251.75	26-61-5090
	10	1.404	1.554	WM5243-ND	4.75	41.89	279.28	26-61-5100
	11	1.560	1.710	WM5244-ND	5.20	45.90	306.02	26-61-5110
	12	1.716	1.866	WM5245-ND	5.67	50.00	333.32	26-61-5120
.156” Center Crimp Terminal Housing (Contacts Sold Separately Below) w/Locking Ramp – 94V-2 Nylon								
7	2	.310	—	WM2100-ND	.23	2.02	13.46	09-50-3021
	3	.460	—	WM2101-ND	.29	2.59	17.25	09-50-3031
	4	.620	—	WM2102-ND	.36	3.16	21.07	09-50-3041
	5	.780	—	WM2103-ND	.42	3.72	24.83	09-50-3051
	6	.930	—	WM2104-ND	.49	4.30	28.65	09-50-3061
	7	1.090	—	WM2105-ND	.55	4.87	32.44	09-50-3071
	8	1.240	—	WM2106-ND	.62	5.43	36.23	09-50-3081
	9	1.400	—	WM2107-ND	.68	6.01	40.04	09-50-3091
	10	1.560	—	WM2108-ND	.77	6.75	45.02	09-50-3101
	11	1.710	—	WM2109-ND	.81	7.14	47.62	09-50-3111
	12	1.870	—	WM2110-ND	.89	7.89	52.63	09-50-3121
With Locking Ramp and Polarizing Ribs – 94V-0 Polyester								
7	2	.340	—	WM2111-ND	.25	2.19	14.60	09-50-8023
	3	.500	—	WM2112-ND	.33	2.87	19.16	09-50-8033
	4	.650	—	WM2113-ND	.40	3.50	23.32	09-50-8043
	5	.810	—	WM2114-ND	.47	4.18	27.88	09-50-8053
	6	.970	—	WM2115-ND	.54	4.81	32.04	09-50-8063
	7	1.120	—	WM2116-ND	.62	5.49	36.60	09-50-8073
	8	1.280	—	WM2117-ND	.69	6.06	40.39	09-50-8083
	9	1.430	—	WM2118-ND	.76	6.74	44.95	09-50-8093
	10	1.600	—	WM2119-ND	.84	7.37	49.16	09-50-8103
	11	1.750	—	WM2120-ND	.91	8.06	53.72	09-50-8113
	12	1.900	—	WM2121-ND	.99	8.74	58.27	09-05-8123
With Locking Ramp – 94V-0 Polyester								
7	2	.340	—	WM2122-ND	.23	2.07	13.81	09-50-8021
	3	.500	—	WM2123-ND	.31	2.75	18.37	09-50-8031
	4	.650	—	WM2124-ND	.38	3.32	22.16	09-50-8041
	5	.810	—	WM2125-ND	.45	3.96	26.37	09-50-8051
	6	.970	—	WM2126-ND	.51	4.53	30.18	09-50-8061
	7	1.120	—	WM2127-ND	.59	5.20	34.69	09-50-8071
	8	1.280	—	WM2128-ND	.65	5.78	38.51	09-50-8081
	9	1.430	—	WM2129-ND	.73	6.40	42.69	09-50-8091
	10	1.600	—	WM2130-ND	.79	6.97	46.46	09-50-8101
	11	1.750	—	WM2131-ND	.86	7.60	50.67	09-50-8111
	12	1.900	—	WM2132-ND	.93	8.22	54.80	09-50-8121
Polarizing Key for .156” Housings				WM2402-ND	.25/1	2.19/10		15-04-0219
Polarizing Peg for .156” Housings				WM2403-ND	.25/1	2.19/10		15-04-0220
Polarizing Key for .156” Friclock Housings				WM2404-ND	.23/1	2.07/10		15-04-0297

Crimp Terminals for .156” Center Housings

Fig. 1

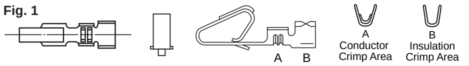
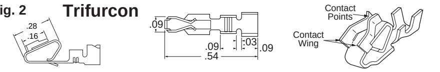


Fig. 2 **Trifurcon**



Description	Digi-Key Part No.	Pricing	Molex Part No.
Hand Tool (Waldom)	WM9903-ND	13.22 each	W-HT-1919
Universal Crimp Tool (Molex)	WM9999-ND	38.36 each	63811-1000
Extraction Tool (Molex)	WM9928-ND	9.08 each	11-03-0016
Production Tool (Molex)	WM9926-ND	180.54 each	63811-2200
Production Tool (Molex)	WM9914-ND	180.54 each	63811-2300

Plating: 100µ” tin plating or 20µ” of Selective Gold

Fig.	Material	Wire Size	Insulation Dia. (Inch)	Finish	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
1	Brass	18-24	.110 Max.	Tin	WM2300-ND*	.64	5.12	21.34	08-50-0106
		18-24	.110	Tin	WM2300CT-ND*‡	—	5.12	21.34	08-50-0105
		18-24	.110	Tin	WM2300TR-ND*◊	158.76/7,000			08-50-0105
	Brass	22-26	.065 Max.	Tin	WM2301-ND†	.50	4.04	16.83	08-50-0108
	Bronze	18-24	.110	Tin	WM2302-ND*	.86	6.87	28.63	08-52-0072
		18-24	.110	Tin	WM2302CT-ND*‡	—	6.87	28.63	08-52-0071
		18-24	.110	Tin	WM2302TR-ND*◊	158.76/7,000			08-52-0071
	Bronze	22-26	.065	Tin	WM2303-ND†	.63	5.06	21.06	08-50-0134
	Brass	18-24	.110	Gold	WM2305-ND*	6.82	54.57	227.38	08-56-0106
	Brass	22-26	.065	Gold	WM2306-ND†	6.82	54.57	227.38	08-56-0108
	Phosphor Bronze	18-24	.110	Gold	WM2304-ND*	7.06	56.48	235.33	08-58-0122
		18-20	.110	Gold	WM2304CT-ND*‡	—	56.48	235.33	08-58-0121
		18-20	.110	Gold	WM2304TR-ND*◊	2156.28/7,000			08-58-0121
	Bronze	22-26	.065	Gold	WM2307-ND†	7.06	56.48	235.33	08-58-0126
2	Phosphor Bronze	18-20	.110	Tin	WM2313-ND*	.92	7.35	30.61	08-52-0113
		22-26	.065	Tin	WM2314-ND†	.93	7.44	31.00	08-52-0125
	Brass	18-20	.110	Tin	WM17403-ND*	.93	7.44	31.00	08-50-0189
					WM17403CT-ND*‡	—	7.44	31.00	08-50-0187
					WM17403TR-ND*◊	219.66/7,000			08-50-0187

*For use with WM9926-ND crimp tool. † For use with WM9914-ND crimp tool. ‡ Cut Tape. ◊ Tape and Reel.

P.C. Board Connectors

.100 (2.54mm) P.C. Board Connectors

94V-O Material, Mates with .025” (.64mm) square pins, end-to-end stackable.

Fig. 1 – Side Entry

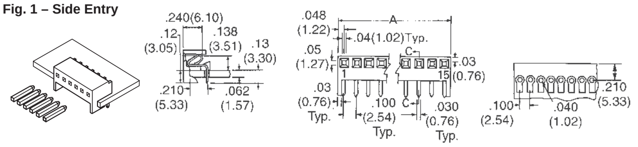


Fig. 2 – Bottom Entry

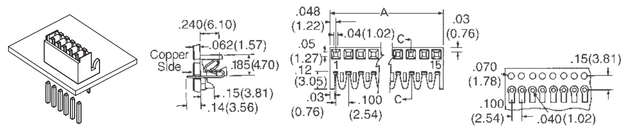
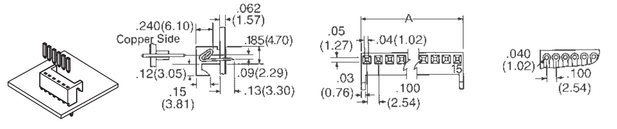


Fig. 3 – Top Entry



.156 (3.96mm) P.C. Board Connectors

94V-2 Nylon Housing. Mates with .045” (1.14mm) pins.

Fig. 4 – Side Entry

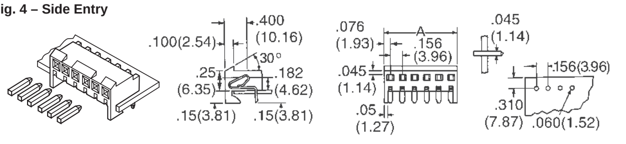


Fig. 5 – Bottom Entry

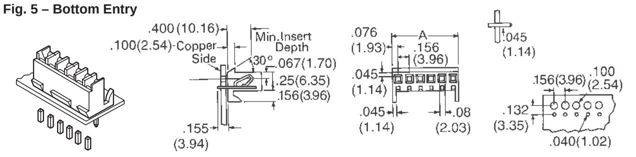


Fig. 6 – Top Entry

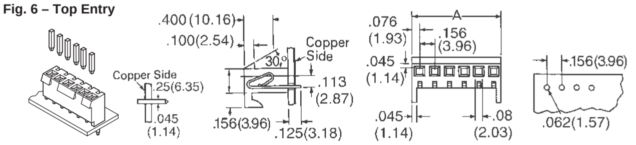


Fig.	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
.100 (2.54mm) P.C. Board Connectors							
1	2	.196 (4.98)	WM3000-ND	.36	3.13	20.88	22-15-2026
	3	.296 (7.52)	WM3001-ND	.38	3.39	22.58	22-15-2036
	4	.396 (10.06)	WM3002-ND	.60	5.32	35.48	22-15-2046
	5	.496 (12.60)	WM3003-ND	.73	6.40	42.69	22-15-2056
	6	.596 (15.14)	WM3004-ND	.78	6.88	45.90	22-15-2066
	7	.696 (17.68)	WM3005-ND	.89	7.87	52.47	22-15-2076
	8	.796 (20.22)	WM3006-ND	1.03	9.07	60.45	22-15-2086
	9	.896 (22.76)	WM3007-ND	1.14	10.10	67.34	22-15-2096
	10	.996 (25.30)	WM3008-ND	1.27	11.25	75.00	22-15-2106
	11	1.096 (27.84)	WM3009-ND	1.48	13.06	87.05	22-15-2116
	12	1.196 (30.38)	WM3010-ND	1.55	13.66	91.08	22-15-2126
2	2	.196 (4.98)	WM3100-ND	.36	3.21	21.41	22-14-2024
	3	.296 (7.52)	WM3101-ND	.38	3.35	22.37	22-14-2034
	4	.396 (10.06)	WM3102-ND	.63	5.55	37.00	22-14-2044
	5	.496 (12.60)	WM3103-ND	.76	6.69	44.60	22-14-2054
	6	.596 (15.14)	WM3104-ND	.89	7.88	52.55	22-14-2064
	7	.696 (17.68)	WM3105-ND	1.02	9.02	60.13	22-14-2074
	8	.796 (20.22)	WM3106-ND	1.08	9.57	63.79	22-14-2084
	9	.896 (22.76)	WM3107-ND	1.29	11.35	75.69	22-14-2094
	10	.996 (25.30)	WM3108-ND	1.34	11.82	78.81	22-14-2104
	11	1.096 (27.84)	WM3109-ND	1.47	12.97	86.50	22-14-2114
	12	1.196 (30.38)	WM3110-ND	1.62	14.28	95.19	22-14-2124
3	2	.196 (4.98)	WM3200-ND	.26	2.27	15.16	22-02-2025
	3	.296 (7.52)	WM3201-ND	.38	3.39	22.58	22-02-2035
	4	.396 (10.06)	WM3202-ND	.52	4.56	30.40	22-02-2045
	5	.496 (12.60)	WM3203-ND	.64	5.67	37.82	22-02-2055
	6	.596 (15.14)	WM3204-ND	.77	6.84	45.58	22-02-2065
	7	.696 (17.68)	WM3205-ND	.90	7.95	53.00	22-02-2075
	8	.796 (20.22)	WM3206-ND	1.02	9.00	60.00	22-02-2085
	9	.896 (22.76)	WM3207-ND	1.16	10.23	68.19	22-02-2095
	10	.996 (25.30)	WM3208-ND	1.29	11.38	75.84	22-02-2105
	11	1.096 (27.84)	WM3209-ND	1.41	12.48	83.21	22-02-2115
	12	1.196 (30.38)	WM3210-ND	1.54	13.57	90.50	22-02-2125
.100 (2.54mm) P.C. Board Connectors - Gold							
1	2	.196 (4.98)	WM3211-ND	.42	3.67	24.46	22-16-2020
	3	.296 (7.52)	WM3212-ND	.48	4.25	28.33	22-16-2030
	4	.396 (10.06)	WM3213-ND	.73	6.40	42.69	22-16-2040
	5	.496 (12.60)	WM3214-ND	.88	7.76	51.76	22-16-2050
	6	.596 (15.14)	WM3215-ND	.97	8.55	56.98	22-16-2060
	7	.696 (17.68)	WM3216-ND	1.20	10.59	70.60	22-16-2070
	8	.796 (20.22)	WM3217-ND	1.28	11.28	75.21	22-16-2080
	9	.896 (22.76)	WM3218-ND	1.51	13.29	88.59	22-16-2090
	10	.996 (25.30)	WM3219-ND	1.67	14.75	98.34	22-16-2100
	11	1.096 (27.84)	WM3220-ND	1.82	16.08	107.19	22-16-2110
	12	1.196 (30.38)	WM3221-ND	1.91	16.86	112.39	22-16-2120
2	2	.196 (4.98)	WM3222-ND	.43	3.82	25.44	22-17-3022
	3	.296 (7.52)	WM3223-ND	.59	5.20	34.69	22-17-3032
	4	.396 (10.06)	WM3224-ND	.76	6.69	44.60	22-17-3042
	5	.496 (12.60)	WM3225-ND	.92	8.11	54.06	22-17-3052
	6	.596 (15.14)	WM3226-ND	1.01	8.89	59.28	22-17-3062
	7	.696 (17.68)	WM3227-ND	1.17	10.30	68.64	22-17-3072
	8	.796 (20.22)	WM3228-ND	1.42	12.49	83.29	22-17-3082
	9	.896 (22.76)	WM3229-ND	1.58	13.92	92.78	22-17-3092
	10	.996 (25.30)	WM3230-ND	1.74	15.40	102.64	22-17-3102
	11	1.096 (27.84)	WM3231-ND	1.95	17.19	114.59	22-17-3112
	12	1.196 (30.38)	WM3232-ND	2.07	18.30	121.98	22-17-3122
3	2	.196 (4.98)	WM3233-ND	.42	3.67	24.46	22-18-2021
	3	.296 (7.52)	WM3234-ND	.48	4.25	28.30	22-18-2031
	4	.396 (10.06)	WM3235-ND	.64	5.65	37.66	22-18-2041
	5	.496 (12.60)	WM3236-ND	.88	7.80	52.02	22-18-2051
3	6	.596 (15.14)	WM3237-ND	.96	8.50	56.66	22-18-2061
	7	.696 (17.68)	WM3238-ND	1.12	9.89	65.96	22-18-2071
	8	.796 (20.22)	WM3239-ND	1.28	11.29	75.29	22-18-2081
	9	.896 (22.76)	WM3240-ND	1.42	12.55	83.69	22-18-2091
	10	.996 (25.30)	WM3241-ND	1.60	14.08	93.84	22-18-2101
	11	1.096 (27.84)	WM3242-ND	1.76	15.53	103.51	22-18-2111
	12	1.196 (30.38)	WM3243-ND	1.93	17.02	113.47	22-18-2121
.156 (3.96mm) P.C. Board Connectors							
4	3	.46 (11.68)	WM3300-ND	.55	4.87	32.44	09-52-3031
	4	.62 (15.75)	WM3301-ND	.62	5.50	36.68	09-52-3041
	5	.78 (19.81)	WM3302-ND	.78	6.86	45.74	09-52-3051
	6	.93 (23.62)	WM3303-ND	.92	8.11	54.06	09-52-3061
	7	1.09 (27.69)	WM3304-ND	1.09	9.64	64.26	09-52-3071
	8	1.24 (31.50)	WM3305-ND	1.25	11.03	73.54	09-52-3081
	9	1.40 (35.56)	WM3306-ND	1.41	12.46	83.05	09-52-3091
	10	1.56 (39.62)	WM3307-ND	1.57	13.85	92.33	09-52-3101
	11	1.71 (43.43)	WM3308-ND	1.70	14.96	99.72	09-52-3111
	12	1.87 (47.50)	WM3309-ND	1.86	16.38	109.23	09-52-3121
5	3	.46 (11.68)	WM3400-ND	.57	5.04	33.58	09-52-3032
	4	.62 (15.75)	WM3401-ND	.73	6.46	43.06	09-52-3042
	5	.78 (19.81)	WM3402-ND	.89	7.83	52.18	09-52-3052
	6	.93 (23.62)	WM3403-ND	1.04	9.19	61.27	09-52-3062
	7	1.09 (27.69)	WM3404-ND	1.32	11.69	77.94	09-52-3072
	8	1.24 (31.50)	WM3405-ND	1.36	12.04	80.24	09-52-3082
	9	1.40 (35.56)	WM3406-ND	1.52	13.40	89.33	09-52-3092
	10	1.56 (39.62)	WM3407-ND	1.61	14.19	94.58	09-52-3102
	12	1.87 (47.50)	WM3409-ND	1.94	17.11	114.06	09-52-3122
6	3	.46 (11.68)	WM3500-ND	.55	4.87	32.44	09-52-3033
	4	.62 (15.75)	WM3501-ND	.63	5.58	37.23	09-52-3043
	5	.78 (19.81)	WM3502-ND	.85	7.49	49.90	09-52-3053
	6	.93 (23.62)	WM3503-ND	.92	8.10	53.98	09-52-3063
	7	1.09 (27.69)	WM3504-ND	1.16	10.20	67.97	09-52-3073
	8	1.24 (31.50)	WM3505-ND	1.22	10.74	71.60	09-52-3083
	9	1.40 (35.56)	WM3506-ND	1.39	12.30	81.99	09-52-3093
	10	1.56 (39.62)	WM3507-ND	1.53	13.46	89.76	09-52-3103
	11	1.71 (43.43)	WM3508-ND	1.69	14.95	99.69	09-52-3113
	12	1.87 (47.50)	WM3509-ND	1.86	16.40	109.34	09-52-3123
.156 (3.96mm) P.C. Board Connectors - Gold							
4	3	.46 (11.68)	WM3510-ND	.84	7.37	49.16	09-62-3031
	4	.62 (15.75)	WM3511-ND	.99	8.75	58.33	09-62-3041
	5	.78 (19.81)	WM3512-ND	1.33	11.75	78.34	09-62-3051
	6	.93 (23.62)	WM3513-ND	1.51	13.28	88.56	09-62-3061
	7	1.09 (27.69)	WM3514-ND	1.82	16.06	107.06	09-62-3071
	8	1.24 (31.50)	WM3515-ND	2.07	18.24	121.61	09-62-3081
	10	1.56 (39.62)	WM3517-ND	2.56	22.63	150.84	09-62-3101
	12	1.87 (47.50)	WM3519-ND	3.05	26.89	179.27	09-62-3121
5	3	.46 (11.68)	WM3520-ND	.87	7.71	51.41	09-62-3032
	4	.62 (15.75)	WM3521-ND	1.13	9.99	66.60	09-62-3042
	6	.93 (23.62)	WM3523-ND	1.65	14.58	97.18	09-62-3062
	7	1.09 (27.69)	WM3524-ND	1.91	16.82	112.12	09-62-3072
	8	1.24 (31.50)	WM3525-ND	2.16	19.10	127.31	09-62-3082
	10	1.56 (39.62)	WM3527-ND	2.69	23.70	158.02	09-62-3102
6	3	.46 (11.68)	WM3530-ND	.84	7.37	49.16	09-62-3033
	4	.62 (15.75)	WM3531-ND	1.08	9.54	63.57	09-62-3043
	5	.78 (19.81)	WM3532-ND	1.25	11.01	73.41	09-62-3053
	6	.93 (23.62)	WM3533-ND	1.49	13.17	87.82	09-62-3063
	8	1.24 (31.50)	WM3535-ND	2.07	18.24	121.61	09-62-3083
	10	1.56 (39.62)	WM3537-ND	2.56	22.63	150.84	09-62-3103
	11	1.71 (43.43)	WM3538-ND	3.87	34.15	227.64	09-62-3113
	12	1.87 (47.50)	WM3539-ND	2.95	26.01	173.42	09-62-3123

Sullins NEW! .1” Female Headers

Fig. 1

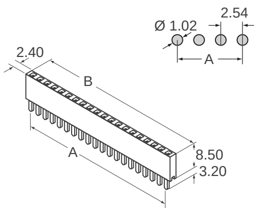
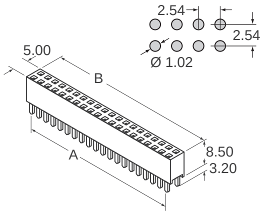


Fig. 2

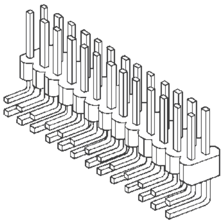


Specifications:

- Current Rating: 3 Amps
- Insulator Resistance: 5000 MΩ min.
- Contact Resistance: 20mΩ max.
- Dielectric Withstanding: AC 1000V
- Operating Temperature: -40°C to +125°C
- Contact Material: Phosphor Bronze
- Insulator Material: PBT, UL94V-0
- Plating: Tin or Gold

Contact Finish	No. of Pos.	Dimensions Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Sullins Part No.
Fig.1 Single Row Female Headers								
Tin	2	.100 (2.54)	.220 (5.58)	S4002-ND	.21	1.74	11.10	PPTC021LFBN
	3	.200 (5.08)	.320 (8.12)	S4003-ND	.30	2.47	15.73	PPTC031LFBN
	4	.300 (7.62)	.420 (10.66)	S4004-ND	.39	3.19	20.35	PPTC041LFBN
	5	.400 (10.16)	.520 (13.20)	S4005-ND	.44	3.63	23.13	PPTC051LFBN
	6	.500 (12.70)	.620 (15.74)	S4006-ND	.47	3.92	24.98	PPTC061LFBN
	7	.600 (15.24)	.720 (18.28)	S4007-ND	.54	4.50	28.68	PPTC071LFBN
	8	.700 (17.78)	.820 (20.82)	S4008-ND	.61	5.08	32.38	PPTC081LFBN
	9	.800 (20.32)	.920 (23.36)	S4009-ND	.70	5.80	37.00	PPTC091LFBN
	10	.900 (22.86)	1.02 (25.90)	S4010-ND	.46	3.77	24.05	PPTC101LFBN
	11	1.00 (25.40)	1.12 (28.44)	S4011-ND	.51	4.21	26.83	PPTC111LFBN
	12	1.10 (27.94)	1.22 (30.98)	S4012-ND	.56	4.64	29.60	PPTC121LFBN
	13	1.20 (30.48)	1.32 (33.52)	S4013-ND	.60	4.93	31.45	PPTC131LFBN
	14	1.30 (33.02)	1.42 (36.06)	S4014-ND	.65	5.37	34.23	PPTC141LFBN
	15	1.40 (35.56)	1.52 (38.60)	S4015-ND	.68	5.66	36.08	PPTC151LFBN
	16	1.50 (38.10)	1.62 (41.14)	S4016-ND	.74	6.09	38.85	PPTC161LFBN
	17	1.60 (40.64)	1.72 (43.68)	S4017-ND	.79	6.53	41.63	PPTC171LFBN
	18	1.70 (43.18)	1.82 (46.22)	S4018-ND	.82	6.82	43.48	PPTC181LFBN
	19	1.80 (45.72)	1.92 (48.76)	S4019-ND	.88	7.25	46.25	PPTC191LFBN
	20	1.90 (48.26)	2.02 (51.30)	S4020-ND	.88	7.25	46.25	PPTC201LFBN
	21	2.00 (50.80)	2.12 (53.84)	S4021-ND	.91	7.54	48.10	PPTC211LFBN
	22	2.10 (53.34)	2.22 (56.38)	S4022-ND	.95	7.83	49.95	PPTC221LFBN
	23	2.20 (55.88)	2.32 (58.92)	S4023-ND	.98	8.12	51.80	PPTC231LFBN
	24	2.30 (58.42)	2.42 (61.46)	S4024-ND	1.02	8.41	53.65	PPTC241LFBN
	25	2.40 (60.96)	2.52 (64.00)	S4025-ND	1.05	8.70	55.50	PPTC251LFBN
	26	2.50 (63.50)	2.62 (66.54)	S4026-ND	1.09	8.99	57.35	PPTC261LFBN
	27	2.60 (66.04)	2.72 (69.08)	S4027-ND	1.12	9.28	59.20	PPTC271LFBN
	28	2.70 (68.58)	2.82 (71.62)	S4028-ND	1.16	9.57	61.05	PPTC281LFBN
	29	2.80 (71.12)	2.92 (74.16)	S4029-ND	1.19	9.86	62.90	PPTC291LFBN
	30	2.90 (73.66)	3.02 (76.70)	S4030-ND	1.23	10.15	64.75	PPTC301LFBN
	31	3.00 (76.20)	3.12 (79.24)	S4031-ND	1.28	10.59	67.53	PPTC311LFBN
	32	3.10 (78.74)	3.22 (81.78)	S4032-ND	1.31	10.88	69.38	PPTC321LFBN
	33	3.20 (81.28)	3.32 (84.32)	S4033-ND	1.37	11.31	72.15	PPTC331LFBN
	34	3.30 (83.82)	3.42 (86.86)	S4034-ND	1.40	11.60	74.00	PPTC341LFBN
	35	3.40 (86.36)	3.52 (89.40)	S4035-ND	1.44	11.89	75.85	PPTC351LFBN
	36	3.50 (88.90)	3.62 (91.94)	S4036-ND	1.49	12.33	78.63	PPTC361LFBN
Gold	2	.100 (2.54)	.220 (5.58)	S4102-ND	.21	1.74	11.10	PPPC021LFBN
	3	.200 (5.08)	.320 (8.12)	S4103-ND	.30	2.47	15.73	PPPC031LFBN
	4	.300 (7.62)	.420 (10.66)	S4104-ND	.39	3.19	20.35	PPPC041LFBN
	5	.400 (10.16)	.520 (13.20)	S4105-ND	.44	3.63	23.13	PPPC051LFBN
	6	.500 (12.70)	.620 (15.74)	S4106-ND	.47	3.92	24.98	PPPC061LFBN
	7	.600 (15.24)	.720 (18.28)	S4107-ND	.54	4.50	28.68	PPPC071LFBN
	8	.700 (17.78)	.820 (20.82)	S4108-ND	.61	5.08	32.38	PPPC081LFBN
	9	.800 (20.32)	.920 (23.36)	S4109-ND	.70	5.80	37.00	PPPC091LFBN
	10	.900 (22.86)	1.02 (25.90)	S4110-ND	.46	3.77	24.05	PPPC101LFBN
	11	1.00 (25.40)	1.12 (28.44)	S4111-ND	.51	4.21	26.83	PPPC111LFBN
	12	1.10 (27.94)	1.22 (30.98)	S4112-ND	.56	4.64	29.60	PPPC121LFBN
	13	1.20 (30.48)	1.32 (33.52)	S4113-ND	.60	4.93	31.45	PPPC131LFBN
	14	1.30 (33.02)	1.42 (36.06)	S4114-ND	.65	5.37	34.23	PPPC141LFBN
	15	1.40 (35.56)	1.52 (38.60)	S4115-ND	.68	5.66	36.08	PPPC151LFBN
	16	1.50 (38.10)	1.62 (41.14)	S4116-ND	.74	6.09	38.85	PPPC161LFBN
	17	1.60 (40.64)	1.72 (43.68)	S4117-ND	.79	6.53	41.63	PPPC171LFBN
	18	1.70 (43.18)	1.82 (46.22)	S4118-ND	.82	6.82	43.48	PPPC181LFBN
	19	.1.80 (45.72)	1.92 (48.76)	S4119-ND	.88	7.25	46.25	PPPC191LFBN
	20	1.90 (48.26)	2.02 (51.30)	S4120-ND	.88	7.25	46.25	PPPC201LFBN
	21	2.00 (50.80)	2.12 (53.84)	S4121-ND	.91	7.54	48.10	PPPC211LFBN
	22	2.10 (53.34)	2.22 (56.38)	S4122-ND	.95	7.83	49.95	PPPC221LFBN
	23	2.20 (55.88)	2.32 (58.92)	S4123-ND	.98	8.12	51.80	PPPC231LFBN
	24	2.30 (58.42)	2.42 (61.46)	S4124-ND	1.02	8.41	53.65	PPPC241LFBN
	25	2.40 (60.96)	2.52 (64.00)	S4125-ND	1.05	8.70	55.50	PPPC251LFBN
	26	2.50 (63.50)	2.62 (66.54)	S4126-ND	1.09	8.99	57.35	PPPC261LFBN
	27	2.60 (66.04)	2.72 (69.08)	S4127-ND	1.12	9.28	59.20	PPPC271LFBN
	28	2.70 (68.58)	2.82 (71.62)	S4128-ND	1.16	9.57	61.05	PPPC281LFBN
	29	2.80 (71.12)	2.92 (74.16)	S4129-ND	1.19	9.86	62.90	PPPC291LFBN
	30	2.90 (73.66)	3.02 (76.70)	S4130-ND	1.23	10.15	64.75	PPPC301LFBN
	31	3.00 (76.20)	3.12 (79.24)	S4131-ND	1.28	10.59	67.53	PPPC311LFBN
	32	3.10 (78.74)	3.22 (81.78))	S4132-ND	1.31	10.88	69.38	PPPC321LFBN
	33	3.20 (81.28)	3.32 (84.32)	S4133-ND	1.37	11.31	72.15	PPPC331LFBN
	34	3.30 (83.82)	3.42 (86.86)	S4134-ND	1.40	11.60	74.00	PPPC341LFBN
	35	3.40 (86.36)	3.52 (89.40)	S4135-ND	1.44	11.89	75.85	PPPC351LFBN
	36	3.50 (88.90)	3.62 (91.94)	S4136-ND	1.49	12.33	78.63	PPPC361LFBN
Fig.2 Dual Row Female Headers								
Tin	4	.100 (2.54)	.220 (5.58)	S4202-ND	.42	3.48	22.20	PPTC022LFBN
	6	.200 (5.08)	.320 (8.12)	S4203-ND	.58	4.79	30.53	PPTC032LFBN
	8	.300 (7.62)	.420 (10.66)	S4204-ND	.77	6.38	40.70	PPTC042LFBN
	10	.400 (10.16)	.520 (13.20)	S4205-ND	.82	6.82	43.48	PPTC052LFBN
	12	.500 (12.70)	.620 (15.74)	S4206-ND	.93	7.69	49.03	PPTC062LFBN
	14	.600 (15.24)	.720 (18.28)	S4207-ND	1.09	8.99	57.35	PPTC072LFBN
	16	.700 (17.78)	.820 (20.82)	S4208-ND	1.24	10.30	65.68	PPTC082LFBN
	18	.800 (20.32)	.920 (23.36)	S4209-ND	1.40	11.60	74.00	PPTC092LFBN
	20	.900 (22.86)	1.02 (25.90)	S4210-ND	.98	8.12	51.80	PPTC102LFBN
	22	1.00 (25.40)	1.12 (28.44)	S4211-ND	1.02	8.41	53.65	PPTC112LFBN
	24	1.10 (27.94)	1.22 (30.98)	S4212-ND	1.09	8.99	57.35	PPTC122LFBN
	26	1.20 (30.48)	1.32 (33.52)	S4213-ND	1.19	9.86	62.90	PPTC132LFBN
	28	1.30 (33.02)	1.42 (36.06)	S4214-ND	1.28	10.59	67.53	PPTC142LFBN
	30	1.40 (35.56)	1.52 (38.60)	S4215-ND	1.37	11.31	72.15	PPTC152LFBN
	32	1.50 (38.10)	1.62 (41.14)	S4216-ND	1.47	12.18	77.70	PPTC162LFBN
	34	1.60 (40.64)	1.72 (43.68)	S4217-ND	1.58	13.05	83.25	PPTC172LFBN
	36	1.70 (43.18)	1.82 (46.22)	S4218-ND	1.65	13.63	86.95	PPTC182LFBN
	38	1.80 (45.72)	1.92 (48.76)	S4219-ND	1.73	14.36	91.58	PPTC192LFBN
	40	1.90 (48.26)	2.02 (51.30)	S4220-ND	1.75	14.50	92.50	PPTC202LFBN
	42	2.00 (50.80)	2.12 (53.84)	S4221-ND	1.79	14.79	94.35	PPTC212LFBN
	44	2.10 (53.34)	2.22 (56.38)	S4222-ND	1.82	15.08	96.20	PPTC222LFBN
	46	2.20 (55.88)	2.32 (58.92)	S4223-ND	1.89	15.66	99.90	PPTC232LFBN
	48	2.30 (58.42)	2.42 (61.46)	S4224-ND	1.96	16.24	103.60	PPTC242LFBN
	50	2.40 (60.96)	2.52 (64.00)	S4225-ND	2.05	16.97	108.23	PPTC252LFBN
	52	2.50 (63.50)	2.62 (66.54)	S4226-ND	2.14	17.69	112.85	PPTC262LFBN
	54	2.60 (66.04)	2.72 (69.08)	S4227-ND	2.22	18.42	117.48	PPTC272LFBN
	56	2.70 (68.58)	2.82 (71.62)	S4228-ND	2.31	19.14	122.10	PPTC282LFBN
	58	2.80 (71.12)	2.92 (74.16)	S4229-ND	2.38	19.72	125.80	PPTC292LFBN
	60	2.90 (73.66)	3.02 (76.70)	S4230-ND	2.45	20.30	129.50	PPTC302LFBN
	62	3.00 (76.20)	3.12 (79.24)	S4231-ND	2.56	21.17	135.05	PPTC312LFBN
	64	3.10 (78.74)	3.22 (81.78)	S4232-ND	2.63	21.75	138.75	PPTC322LFBN
	66	3.20 (81.28)	3.32 (84.32)	S4233-ND	2.71	22.48	143.38	PPTC332LFBN
	68	3.30 (83.82)	3.42 (86.86)	S4234-ND	2.80	23.20	148.00	PPTC342LFBN
	70	3.40 (86.36)	3.52 (89.40)	S4235-ND	2.87	23.78	151.70	PPTC352LFBN
	72	3.50 (88.90)	3.62 (91.94)	S4236-ND	2.96	24.51	156.33	PPTC362LFBN
Gold	4	.100 (2.54)	.220 (5.58)	S4302-ND	.42	3.48	22.20	PPPC022LFBN
	6	.200 (5.08)	.320 (8.12)	S4303-ND	.58	4.79	30.53	PPPC032LFBN
	8	.300 (7.62)	.420 (10.66)	S4304-ND	.77	6.38	40.70	PPPC042LFBN
	10	.400 (10.16)	.520 (13.20)	S4305-ND	.82	6.82	43.48	PPPC052LFBN
	12	.500 (12.70)	.620 (15.74)	S4306-ND	.93	7.69	49.03	PPPC062LFBN
	14	.600 (15.24)	.720 (18.28)	S4307-ND	1.09	8.99	57.35	PPPC072LFBN
	16	.700 (17.78)	.820 (20.82)	S4308-ND	1.24	10.30	65.68	PPPC082LFBN
	18	.800 (20.32)	.920 (23.36)	S4309-ND	1.40	11.60	74.00	PPPC092LFBN
	20	.900 (22.86)	1.02 (25.90)	S4310-ND	.98	8.12	51.80	PPPC102LFBN
	22	1.00 (25.40)	1.12 (28.44)	S4311-ND	1.02	8.41	53.65	PPPC112LFBN
	24	1.10 (27.94)	1.22 (30.98)	S4312-ND	1.09	8.99	57.35	PPPC122LFBN
	26	1.20 (30.48)	1.32 (33.52)	S4313-ND	1.19	9.86	62.90	PPPC132LFBN
	28	1.30 (33.02)	1.42 (36.06)	S4314-ND	1.28	10.59	67.53	PPPC142LFBN
	30	1.40 (35.56)	1.52 (38.60)	S4315-ND	1.37	11.31	72.15	PPPC152LFBN
	32	1.50 (38.10)	1.62 (41.14)	S4316-ND	1.47	12.18	77.70	PPPC162LFBN
	34	1.60 (40.64)	1.72 (43.68)	S4317-ND	1.58	13.05	83.25	PPPC172LFBN
	36	1.70 (43.18)	1.82 (46.22)	S4318-ND	1.65	13.63	86.95	PPPC182LFBN
	38	1.80 (45.72)	1.92 (48.76)	S4319-ND	1.73	14.36	91.58	PPPC192LFBN
	40	1.90 (48.26)	2.02 (51.30)	S4320-ND	1.75	14.50	92.50	PPPC202LFBN
	42	2.00 (50.80)	2.12 (53.84)	S4321-ND	1.79	14.79	94.35	PPPC212LFBN
	44	2.10 (53.34)	2.22 (56.38)	S4322-ND	1.82	15.08	96.20	PPPC222LFBN
	46	2.20 (55.88)	2.32 (58.92)	S4323-ND	1.89	15.66	99.90	PPPC232LFBN
	48	2.30 (58.42)	2.42 (61.46)	S4324-ND	1.96	16.24	103.60	PPPC242LFBN
	50	2.40 (60.96)	2.52 (64.00)	S4325-ND	2.05	16.97	108.23	PPPC252LFBN
	52	2.50 (63.50)	2.62 (66.54)	S4326-ND	2.14	17.69	112.85	PPPC262LFBN
	54	2.60 (66.04)	2.72 (69.08)	S4327-ND	2.22	18.42	117.48	PPPC272LFBN
	56	2.70 (68.58)	2.82 (71.62)	S4328-ND	2.31	19.14	122.10	PPPC282LFBN
	58	2.80 (71.12)	2.92 (74.16)	S4329-ND	2.38	19.72	125.80	PPPC292LFBN
	60	2.90 (73.66)	3.02 (76.70)	S4330-ND	2.45	20.30	129.50	PPPC302LFBN
	62	3.00 (76.20)	3.12 (79.24)	S4331-ND	2.56	21.17	135.05	PPPC312LFBN
	64	3.10 (78.74)	3.22 (81.78)	S4332-ND	2.63	21.75	138.75	PPPC322LFBN
	66	3.20 (81.28)	3.32 (84.32)	S4333-ND	2.71	22.48	143.38	PPPC332LFBN
	68	3.30 (83.82)	3.42 (86.86)	S4334-ND	2.80	23.20	148.00	PPPC342LFBN
	70	3.40 (86.36)	3.52 (89.40)	S4335-ND	2.87	23.78	151.70	PPPC352LFBN
	72	3.50 (88.90)	3.62 (91.94)	S4336-ND	2.96	24.51	156.33	PPPC362LFBN

Sullins .025” (.64mm) Square Headers

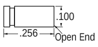


Available in 1 to 36 Pin Versions!

Features
- Available in 36-pin version or 1 to 35 size to meet your application.
- Temperature: -65°C to + 125°C.
- UL Flammability Rating: 94V-0.
- Current Rating: 3 amperes.

Materials
- Insulator Material: Black thermoplastic polyester.
- Contact Material: CA510, phosphor bronze.
- Contact Plating: Gold — .000010 Gold (Head Only); Tin — .000100 Tin.

TO PURCHASE A 36 PIN HEADER...

Contact Finish	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
	A	B		1	10	100	
Single Row Straight (36 Pins)							
Tin	.230 (5.84)	.120 (3.05)	S1012-36-ND	1.03	9.18	75.60	PTC36SAAN
	.230 (5.84)	.220 (5.59)	S1022-36-ND	1.77	15.81	130.20	PTC36SABN
	.230 (5.84)	.320 (8.13)	S1032-36-ND	1.91	17.09	140.70	PTC36SACN
	.230 (5.84)	.420 (10.67)	S1042-36-ND	2.08	18.62	153.30	PTC36SADN
	.230 (5.84)	.520 (13.21)	S1052-36-ND	2.22	19.89	163.80	PTC36SAEN
	.230 (5.84)	.620 (15.75)	S1062-36-ND	2.76	24.74	203.70	PTC36SAFN
	.230 (5.84)	.720 (18.29)	S1072-36-ND	2.94	26.27	216.30	PTC36SAGN
	.230 (5.84)	.820 (20.83)	S1082-36-ND	3.11	27.80	228.90	PTC36SAHN
	.318 (8.08)	.120 (3.05)	S1212-36-ND	1.28	11.48	94.50	PTC36SFAN
	.318 (8.08)	.220 (5.59)	S1222-36-ND	2.11	18.87	155.40	PTC36SFBN
	.318 (8.08)	.320 (8.13)	S1232-36-ND	2.28	20.40	168.00	PTC36SFCN
	.318 (8.08)	.420 (10.67)	S1242-36-ND	2.45	21.93	180.60	PTC36SFDN
	.318 (8.08)	.520 (13.21)	S1252-36-ND	3.31	29.58	243.60	PTC36SFEN
Gold	.230 (5.84)	.120 (3.05)	S1011-36-ND	1.28	11.48	94.50	PZC36SAAN
	.230 (5.84)	.220 (5.59)	S1021-36-ND	2.14	19.13	157.50	PZC36SABN
	.230 (5.84)	.320 (8.13)	S1031-36-ND	2.59	23.49	198.45	PZC36SACN
	.230 (5.84)	.420 (10.67)	S1041-36-ND	2.45	21.93	180.60	PZC36SADN
	.230 (5.84)	.520 (13.21)	S1051-36-ND	2.62	23.46	193.20	PZC36SAEN
	.230 (5.84)	.620 (15.75)	S1061-36-ND	3.19	28.56	235.20	PZC36SAFN
	.230 (5.8 4)	.720 (18.29)	S1071-36-ND	3.36	30.09	247.80	PZC36SAGN
	.230 (5.84)	.820 (20.83)	S1081-36-ND	3.53	31.62	260.40	PZC36SAHN
	.318 (8.08)	.120 (3.05)	S1211-36-ND	1.62	14.54	119.70	PZC36SFAN
	.318 (8.08)	.220 (5.59)	S1221-36-ND	2.59	23.21	191.10	PZC36SFBN
	.318 (8.08)	.320 (8.13)	S1231-36-ND	2.76	24.74	203.70	PZC36SFCN
	.318 (8.08)	.420 (10.67)	S1241-36-ND	2.94	26.27	216.30	PZC36SFDN
	.318 (8.08)	.520 (13.21)	S1251-36-ND	3.85	34.43	283.50	PZC36SFEN
Single Row Right-Angle (36 Pins)							
Tin	.230 (5.84)	.100 (2.54)	S1112-36-ND	1.51	13.52	111.30	PTC36SBAN
	.230 (5.84)	.200 (5.08)	S1122-36-ND	1.94	17.34	142.80	PTC36SBBN
	.230 (5.84)	.300 (7.62)	S1132-36-ND	2.79	24.99	205.80	PTC36SBCN
	.230 (5.84)	.400 (10.16)	S1142-36-ND	3.76	33.66	277.20	PTC36SBDN
	.230 (5.84)	.500 (12.70)	S1152-36-ND	4.02	35.96	296.10	PTC36SBEN
	.318 (8.08)	.100 (2.54)	S1312-36-ND	1.94	17.34	142.80	PTC36SGAN
	.318 (8.08)	.200 (5.08)	S1322-36-ND	3.48	31.11	256.20	PTC36SGBN
Gold	.230 (5.84)	.100 (2.54)	S1111-36-ND	1.82	16.32	134.40	PZC36SBAN
	.230 (5.84)	.200 (5.08)	S1121-36-ND	2.28	20.40	168.00	PZC36SBBN
	.230 (5.84)	.300 (7.62)	S1131-36-ND	3.22	28.82	237.30	PZC36SBCN
	.230 (5.84)	.400 (10.16)	S1141-36-ND	4.25	38.00	312.90	PZC36SBDN
	.230 (5.84)	.500 (12.70)	S1151-36-ND	4.50	40.29	331.80	PZC36SBEN
	.318 (8.08)	.100 (2.54)	S1311-36-ND	2.34	20.91	172.20	PZC36SGAN
	.318 (8.08)	.200 (5.08)	S1321-36-ND	4.02	35.96	296.10	PZC36SGBN
Dual Row Straight (72 Pins)							
Tin	.230 (5.84)	.120 (3.05)	S2012-36-ND	1.85	16.58	136.50	PTC36DAAN
	.230 (5.84)	.220 (5.59)	S2022-36-ND	2.76	24.74	203.70	PTC36DABN
	.230 (5.84)	.320 (8.13)	S2032-36-ND	3.96	35.45	291.90	PTC36DACN
	.230 (5.84)	.420 (10.67)	S2042-36-ND	4.30	38.51	317.10	PTC36DADN
	.230 (5.84)	.520 (13.21)	S2052-36-ND	4.65	41.57	342.30	PTC36DAEN
	.230 (5.84)	.620 (15.75)	S2062-36-ND	5.96	53.30	438.90	PTC36DAFN
	.230 (5.84)	.720 (18.29)	S2072-36-ND	6.33	56.61	466.20	PTC36DAGN
	.230 (5.84)	.820 (20.83)	S2082-36-ND	6.70	59.93	493.50	PTC36DAHN
	.318 (8.08)	.120 (3.05)	S2212-36-ND	2.34	20.91	172.20	PTC36DFAN
	.318 (8.08)	.220 (5.59)	S2222-36-ND	3.65	32.64	268.80	PTC36DFBN
	.318 (8.08)	.320 (8.13)	S2232-36-ND	3.99	35.70	294.00	PTC36DFCN
	.318 (8.08)	.420 (10.67)	S2242-36-ND	4.33	38.76	319.20	PTC36DFDN
	.318 (8.08)	.520 (13.21)	S2252-36-ND	5.59	49.98	411.60	PTC36DFEN
Gold	.230 (5.84)	.120 (3.05)	S2011-36-ND	2.37	21.17	174.30	PZC36DAAN
	.230 (5.84)	.220 (5.59)	S2021-36-ND	3.48	31.11	256.20	PZC36DABN
	.230 (5.84)	.320 (8.13)	S2031-36-ND	4.82	43.10	354.90	PZC36DACN
	.230 (5.84)	.420 (10.67)	S2041-36-ND	5.16	46.16	380.10	PZC36DADN
	.230 (5.84)	.520 (13.21)	S2051-36-ND	5.50	49.22	405.30	PZC36DAEN
	.230 (5.84)	.620 (15.75)	S2061-36-ND	6.90	61.71	508.20	PZC36DAFN
	.230 (5.84)	.720 (18.29)	S2071-36-ND	7.27	65.03	535.50	PZC36DAGN
	.230 (5.84)	.820 (20.83)	S2081-36-ND	7.67	68.60	564.90	PZC36DAHN
	.318 (8.08)	.120 (3.05)	S2211-36-ND	3.02	27.03	222.60	PZC36DFAN
	.318 (8.08)	.220 (5.59)	S2221-36-ND	4.62	41.31	340.20	PZC36DFBN
	.318 (8.08)	.320 (8.13)	S2231-36-ND	4.96	44.37	365.40	PZC36DFCN
	.318 (8.08)	.420 (10.67)	S2241-36-ND	5.30	47.43	390.60	PZC36DFDN
	.318 (8.08)	.520 (13.21)	S2251-36-ND	6.67	59.67	491.40	PZC36DFEN
Dual Row Right-Angle (72 Pins)							
Tin	.230 (5.84)	.120 (3.05)	S2112-36-ND	2.79	24.99	205.80	PTC36DBAN
	.230 (5.84)	.220 (5.59)	S2122-36-ND	4.05	36.21	298.20	PTC36DBBN
	.230 (5.84)	.320 (8.13)	S2132-36-ND	6.10	54.57	449.40	PTC36DBCN
	.230 (5.84)	.420 (10.67)	S2142-36-ND	6.70	59.93	493.50	PTC36DBDN
	.230 (5.84)	.520 (13.21)	S2152-36-ND	7.30	65.28	537.60	PTC36DBEN
	.318 (8.08)	.120 (3.05)	S2312-36-ND	5.33	47.69	392.70	PTC36DGAN
	.318 (8.08)	.220 (5.59)	S2322-36-ND	6.58	58.91	485.10	PTC36DGBN
Gold	.230 (5.84)	.120 (3.05)	S2111-36-ND	3.42	30.60	252.00	PZC36DBAN
	.230 (5.84)	.220 (5.59)	S2121-36-ND	4.79	42.84	352.80	PZC36DBBN
	.230 (5.84)	.320 (8.13)	S2131-36-ND	7.07	63.24	520.80	PZC36DBCN
	.230 (5.84)	.420 (10.67)	S2141-36-ND	7.64	68.34	562.80	PZC36DBDN
	.230 (5.84)	.520 (13.21)	S2151-36-ND	8.24	73.70	606.90	PZC36DBEN
	.318 (8.08)	.120 (3.05)	S2311-36-ND	6.30	56.36	464.10	PZC36DGAN
	.318 (8.08)	.220 (5.59)	S2321-36-ND	7.67	68.60	564.90	PZC36DGBN
Shorting Jumpers							
Tin			S9000-ND	—	.93	—	STC02SYAN
Au Flash			S9001-ND	—	1.16	—	SPC02SYAN
Gold			S9002-ND	—	1.31	—	SSC02SYAN

TO PURCHASE A 1-35 PIN HEADER...

STEP 1 Digi-Key Part No.	STEP 2 Base Price	STEP 3 Pin Adder
Single Row Straight (36 Pins)		
S1012-XX-ND	.39	.02
S1022-XX-ND	.83	.03
S1032-XX-ND	.98	.03
S1042-XX-ND	.81	.04
S1052-XX-ND	.96	.04
S1062-XX-ND	1.18	.05
S1072-XX-ND	1.38	.05
S1082-XX-ND	1.20	.06
S1212-XX-ND	.66	.02
S1222-XX-ND	.84	.04
S1232-XX-ND	1.02	.04
S1242-XX-ND	1.21	.04
S1252-XX-ND	1.41	.06
S1011-XX-ND	.66	.02
S1021-XX-ND	.87	.04
S1031-XX-ND	1.05	.04
S1041-XX-ND	1.21	.04
S1051-XX-ND	1.03	.05
S1061-XX-ND	1.29	.06
S1071-XX-ND	1.47	.06
S1081-XX-ND	1.65	.06
S1211-XX-ND	.67	.03
S1221-XX-ND	1.00	.05
S1231-XX-ND	1.18	.05
S1241-XX-ND	1.38	.05
S1251-XX-ND	1.64	.07
Single Row Right-Angle (36 Pins)		
S1112-XX-ND	.55	.03
S1122-XX-ND	.66	.04
S1132-XX-ND	1.21	.05
S1142-XX-ND	1.54	.07
S1152-XX-ND	1.82	.07
S1312-XX-ND	.66	.04
S1322-XX-ND	1.60	.06
S1111-XX-ND	.89	.03
S1121-XX-ND	1.02	.04
S1131-XX-ND	1.32	.06
S1141-XX-ND	1.71	.08
S1151-XX-ND	1.98	.08
S1311-XX-ND	1.09	.04
S1321-XX-ND	1.82	.07
Dual Row Straight (72 Pins)		
S2012-XX-ND	.92	.03
S2022-XX-ND	1.18	.05
S2032-XX-ND	1.76	.07
S2042-XX-ND	1.76	.08
S2052-XX-ND	2.14	.08
S2062-XX-ND	2.48	.11
S2072-XX-ND	2.52	.12
S2082-XX-ND	2.92	.12
S2212-XX-ND	1.09	.04
S2222-XX-ND	1.42	.07
S2232-XX-ND	1.79	.07
S2242-XX-ND	1.80	.08
S2252-XX-ND	2.44	.10
S2011-XX-ND	1.12	.04
S2021-XX-ND	1.60	.06
S2031-XX-ND	1.97	.09
S2041-XX-ND	2.33	.09
S2051-XX-ND	2.34	.10
S2061-XX-ND	2.77	.13
S2071-XX-ND	3.17	.13
S2081-XX-ND	3.24	.14
S2211-XX-ND	1.46	.05
S2221-XX-ND	2.11	.08
S2231-XX-ND	2.12	.09
S2241-XX-ND	2.12	.10
S2251-XX-ND	2.88	.12
Dual Row Right-Angle (72 Pins)		
S2112-XX-ND	1.21	.05
S2122-XX-ND	1.85	.07
S2132-XX-ND	2.63	.11
S2142-XX-ND	2.92	.12
S2152-XX-ND	3.20	.13
S2312-XX-ND	2.16	.10
S2322-XX-ND	2.79	.12
S2111-XX-ND	1.53	.06
S2121-XX-ND	1.93	.09
S2131-XX-ND	2.96	.13
S2141-XX-ND	3.21	.14
S2151-XX-ND	3.50	.15
S2311-XX-ND	2.84	.11
S2321-XX-ND	3.24	.14

HOW TO ORDER - 4 EASY STEPS

How do I order an S1012 header with 16 pins?

Call Digi-Key where you’ll happily receive the price.

or

Determine the cost yourself

S ☐ ☐ ☐ ☐ - ☐ ☐ - ND

Base Part Number

Number of Desired Pins per row

Step 1. Select needed “Digi-Key Part Number” and number of pins desired.

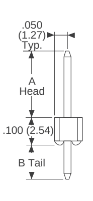
Step 2. Begin with appropriate “Base Price” of your selected Part Number (refer to chart).

Step 3. Multiply the number of pins you desire by “Pin Adder” of your selected Part Number (refer to chart).

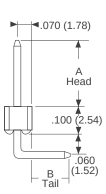
Step 4. Add Step 2 & Step 3 together for Final Cost!

	Our Example	Your Digi-Key Part Number
Step 1.	S1012-16-ND	S __ __ __ __ - __ __ - ND
Step 2.	.39	_______
Step 3.	16 x .02 = .32	____ x ____ = _______
Step 4.	Your Cost = $.71	Your Cost = $______

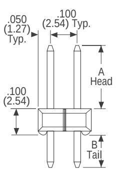
NOTE: For quantities of 10 or more, call 1-800-DIGI-KEY.



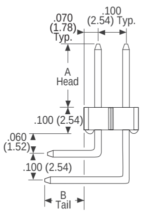
Single Straight



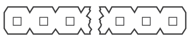
Single Right Angle



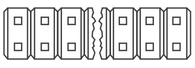
Dual Straight



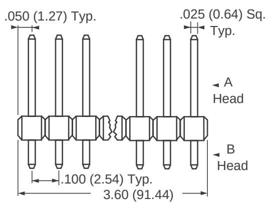
Dual Right Angle



Single Row



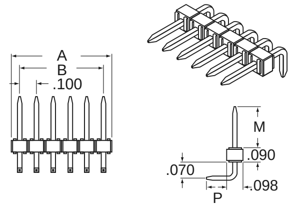
Dual Row



.100 KK® and .100 C-Grid® Breakaway Headers

Fig. 1 — KK® Breakaway Header – Right Angle

Features: • 250V • 4.0A • Contact Res.: 20mΩ max. • Dielectric Withstanding Volt: 1500V • Insulation Res.: 50K MΩ min. • Housing: Glass-filled nylon, UL94V-0 • Contact: Phosphor Bronze, 0.64mm (.025") square • Temp.: 0°C to +75°C • UL File No.: E29179 • CSA File No.: LR19980

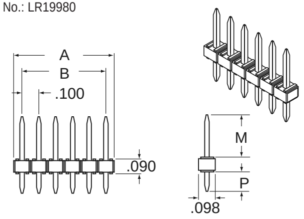


Mating End M (Inch)	PC Tail P (Inch)	Part No.
.244	.120	22-28-8XX0* 22-28-8XX2*
.324	.120	22-28-8XX1* 22-28-8XX3*

*Replace XX with no. of circuits, 02-36.

Fig. 2 — KK® Breakaway Header – Vertical

Features: • 250V • 4.0A • Contact Res.: 20mΩ max. • Dielectric Withstanding Volt: 1500V • Insulation Res.: 50K MΩ min. • Housing: Glass-filled nylon, UL94V-0 • Contact: Phosphor Bronze, 0.64mm (.025") square • Temp.: 0°C to +75°C • UL File No.: E29179 • CSA File No.: LR19980



Mating End M (Inch)	PC Tail P (Inch)	Part No.
.240	.125	22-28-4XX0* 22-28-4XX3*
.320	.130	22-28-4XX1* 22-28-4XX4*

*Replace XX with no. of circuits, 02-36.

Fig. 3 — C-Grid® Breakaway Header – Dual Row, Vertical

Features: • 250V • 3.0A • Contact Res.: 15mΩ max. • Dielectric Withstanding Volt: 600V • Insulation Res.: 1000 MΩ min. • Housing: Glass-filled polyester, UL94V-0 • Contact: Phosphor Bronze • Temp.: -40°C to +105°C • UL File No.: E29179 (G) • CSA File No.: LR19980A

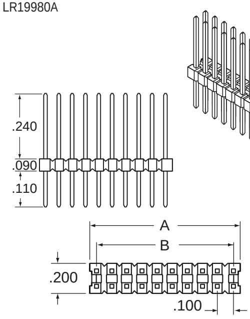
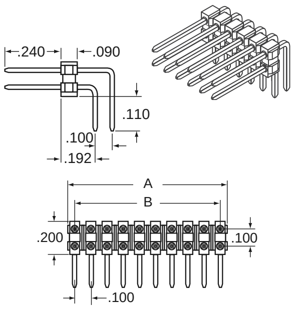


Fig. 4 — C-Grid® Breakaway Header – Low Profile, Dual Row Right Angle

Features: • 250V • 3.0A • Contact Res.: 15mΩ max. • Dielectric Withstanding Volt: 600V • Insulation Res.: 1000 MΩ min. • Housing: Glass-filled polyester, UL94V-0 • Contact: Phosphor Bronze • Temp.: -40°C to +105°C • UL File No.: E29179 (H)



Cir- cuits	Dim. Inch A	Dim. Inch B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
.100 KK® Breakaway Header							
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6002-ND	.33	.30	.20	22-28-8020
3	.300	.200	WM6003-ND	.39	.35	.24	22-28-8030
4	.400	.300	WM6004-ND	.45	.41	.27	22-28-8040
5	.500	.400	WM6005-ND	.52	.46	.31	22-28-8050
6	.600	.500	WM6006-ND	.58	.51	.34	22-28-8060
7	.700	.600	WM6007-ND	.64	.57	.38	22-28-8070
8	.800	.700	WM6008-ND	.70	.62	.41	22-28-8080
9	.900	.800	WM6009-ND	.76	.67	.45	22-28-8090
10	1.000	.900	WM6010-ND	.82	.73	.49	22-28-8100
11	1.100	1.000	WM6011-ND	.88	.78	.52	22-28-8110
12	1.200	1.100	WM6012-ND	.94	.83	.56	22-28-8120
13	1.300	1.200	WM6013-ND	1.45	1.29	.86	22-28-8130
14	1.400	1.300	WM6014-ND	1.06	.94	.63	22-28-8140
15	1.500	1.400	WM6015-ND	1.12	.99	.66	22-28-8150
16	1.600	1.500	WM6016-ND	1.18	1.05	.70	22-28-8160
17	1.700	1.600	WM6017-ND	1.24	1.10	.74	22-28-8170
18	1.800	1.700	WM6018-ND	1.30	1.15	.77	22-28-8180
19	1.900	1.800	WM6019-ND	1.36	1.21	.81	22-28-8190
20	2.000	1.900	WM6020-ND	1.42	1.26	.84	22-28-8200
21	2.100	2.000	WM6021-ND	1.48	1.31	.88	22-28-8210
22	2.200	2.100	WM6022-ND	1.54	1.37	.91	22-28-8220
23	2.300	2.200	WM6023-ND	1.61	1.42	.95	22-28-8230
24	2.400	2.300	WM6024-ND	1.67	1.47	.98	22-28-8240
25	2.500	2.400	WM6025-ND	1.73	1.53	1.02	22-28-8250
26	2.600	2.500	WM6026-ND	1.79	1.58	1.06	22-28-8260
27	2.700	2.600	WM6027-ND	1.85	1.63	1.09	22-28-8270
28	2.800	2.700	WM6028-ND	1.91	1.69	1.13	22-28-8280
29	2.900	2.800	WM6029-ND	1.97	1.74	1.16	22-28-8290
30	3.000	2.900	WM6030-ND	2.03	1.79	1.20	22-28-8300
31	3.100	3.000	WM6031-ND	2.09	1.85	1.23	22-28-8310
32	3.200	3.100	WM6032-ND	2.15	1.90	1.27	22-28-8320
33	3.300	3.200	WM6033-ND	2.21	1.96	1.31	22-28-8330
34	3.400	3.300	WM6034-ND	2.27	2.01	1.34	22-28-8340
35	3.500	3.400	WM6035-ND	2.33	2.06	1.38	22-28-8350
36	3.600	3.500	WM6036-ND	2.39	2.12	1.41	22-28-8360
Fig. 1 — Single Row, Right Angle - 15µ Select Gold							
2	.200	.100	WM6102-ND	.36	.32	.22	22-28-8022
3	.300	.200	WM6103-ND	.44	.39	.26	22-28-8032
4	.400	.300	WM6104-ND	.51	.46	.31	22-28-8042
5	.500	.400	WM6105-ND	.59	.52	.35	22-28-8052
6	.600	.500	WM6106-ND	.66	.59	.40	22-28-8062
7	.700	.600	WM6107-ND	.74	.66	.44	22-28-8072
8	.800	.700	WM6108-ND	.81	.72	.48	22-28-8082
9	.900	.800	WM6109-ND	.89	.79	.53	22-28-8092
10	1.000	.900	WM6110-ND	.97	.86	.57	22-28-8102
11	1.100	1.000	WM6111-ND	1.04	.92	.62	22-28-8112
12	1.200	1.100	WM6112-ND	1.12	.99	.66	22-28-8122
13	1.300	1.200	WM6113-ND	1.77	1.57	1.05	22-28-8132
14	1.400	1.300	WM6114-ND	1.27	1.12	.75	22-28-8142
15	1.500	1.400	WM6115-ND	1.34	1.19	.79	22-28-8152
16	1.600	1.500	WM6116-ND	1.42	1.25	.84	22-28-8162
17	1.700	1.600	WM6117-ND	1.49	1.32	.88	22-28-8172
18	1.800	1.700	WM6118-ND	1.57	1.39	.93	22-28-8182
19	1.900	1.800	WM6119-ND	1.64	1.45	.97	22-28-8192
20	2.000	1.900	WM6120-ND	1.72	1.52	1.02	22-28-8202
21	2.100	2.000	WM6121-ND	1.79	1.59	1.06	22-28-8212
22	2.200	2.100	WM6122-ND	1.87	1.65	1.10	22-28-8222
23	2.300	2.200	WM6123-ND	1.94	1.72	1.15	22-28-8232
24	2.400	2.300	WM6124-ND	2.02	1.79	1.19	22-28-8242
25	2.500	2.400	WM6125-ND	2.09	1.85	1.24	22-28-8252
26	2.600	2.500	WM6126-ND	2.17	1.92	1.28	22-28-8262
27	2.700	2.600	WM6127-ND	2.24	1.99	1.33	22-28-8272
28	2.800	2.700	WM6128-ND	2.32	2.05	1.37	22-28-8282
29	2.900	2.800	WM6129-ND	2.40	2.12	1.41	22-28-8292
30	3.000	2.900	WM6130-ND	2.47	2.18	1.46	22-28-8302
31	3.100	3.000	WM6131-ND	2.55	2.25	1.50	22-28-8312
32	3.200	3.100	WM6132-ND	2.62	2.32	1.55	22-28-8322
33	3.300	3.200	WM6133-ND	2.70	2.38	1.59	22-28-8332
34	3.400	3.300	WM6134-ND	2.77	2.45	1.64	22-28-8342
35	3.500	3.400	WM6135-ND	2.85	2.52	1.68	22-28-8352
36	3.600	3.500	WM6136-ND	2.92	2.58	1.72	22-28-8362
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6202-ND	.33	.30	.20	22-28-8021
3	.300	.200	WM6203-ND	.39	.35	.24	22-28-8031
4	.400	.300	WM6204-ND	.45	.41	.27	22-28-8041
5	.500	.400	WM6205-ND	.52	.46	.31	22-28-8051
6	.600	.500	WM6206-ND	.58	.51	.34	22-28-8061
7	.700	.600	WM6207-ND	.64	.57	.38	22-28-8071
8	.800	.700	WM6208-ND	.70	.62	.41	22-28-8081
9	.900	.800	WM6209-ND	.76	.67	.45	22-28-8091
10	1.000	.900	WM6210-ND	.82	.73	.49	22-28-8101
11	1.100	1.000	WM6211-ND	.88	.78	.52	22-28-8111
12	1.200	1.100	WM6212-ND	.94	.83	.56	22-28-8121
13	1.300	1.200	WM6213-ND	1.00	.89	.59	22-28-8131
14	1.400	1.300	WM6214-ND	1.06	.94	.63	22-28-8141
15	1.500	1.400	WM6215-ND	1.12	.99	.66	22-28-8151
16	1.600	1.500	WM6216-ND	1.18	1.05	.70	22-28-8161
17	1.700	1.600	WM6217-ND	1.24	1.10	.74	22-28-8171
18	1.800	1.700	WM6218-ND	1.30	1.15	.77	22-28-8181
19	1.900	1.800	WM6219-ND	1.36	1.21	.81	22-28-8191
20	2.000	1.900	WM6220-ND	1.42	1.26	.84	22-28-8201
21	2.100	2.000	WM6221-ND	1.48	1.31	.88	22-28-8211
22	2.200	2.100	WM6222-ND	1.54	1.37	.91	22-28-8221
23	2.300	2.200	WM6223-ND	1.61	1.42	.95	22-28-8231
24	2.400	2.300	WM6224-ND	1.67	1.47	.98	22-28-8241
25	2.500	2.400	WM6225-ND	1.73	1.53	1.02	22-28-8251
26	2.600	2.500	WM6226-ND	1.79	1.58	1.06	22-28-8261
27	2.700	2.600	WM6227-ND	1.85	1.63	1.09	22-28-8271
28	2.800	2.700	WM6228-ND	1.91	1.69	1.13	22-28-8281
29	2.900	2.800	WM6229-ND	1.97	1.74	1.16	22-28-8291
30	3.000	2.900	WM6230-ND	2.03	1.79	1.20	22-28-8301
31	3.100	3.000	WM6231-ND	2.09	1.85	1.23	22-28-8311
32	3.200	3.100	WM6232-ND	2.15	1.90	1.27	22-28-8321
33	3.300	3.200	WM6233-ND	2.21	1.96	1.31	22-28-8331
34	3.400	3.300	WM6234-ND	2.27	2.01	1.34	22-28-8341
35	3.500	3.400	WM6235-ND	2.33	2.06	1.38	22-28-8351
36	3.600	3.500	WM6236-ND	2.39	2.12	1.41	22-28-8361
Fig. 1 — Single Row, Right Angle - 15µ Select Gold							
2	.200	.100	WM6302-ND	.36	.32	.22	22-28-8023
3	.300	.200	WM6303-ND	.44	.39	.26	22-28-8033
4	.400	.300	WM6304-ND	.51	.46	.31	22-28-8043
5	.500	.400	WM6305-ND	.59	.52	.35	22-28-8053
6	.600	.500	WM6306-ND	.66	.59	.40	22-28-8063
7	.700	.600	WM6307-ND	.74	.66	.44	22-28-8073
8	.800	.700	WM6308-ND	.81	.72	.48	22-28-8083
9	.900	.800	WM6309-ND	.89	.79	.53	22-28-8093
10	1.000	.900	WM6310-ND	.97	.86	.57	22-28-8103
11	1.100	1.000	WM6311-ND	1.04	.92	.62	22-28-8113
12	1.200	1.100	WM6312-ND	1.12	.99	.66	22-28-8123
13	1.300	1.200	WM6313-ND	1.19	1.06	.71	22-28-8133
14	1.400	1.300	WM6314-ND	1.27	1.12	.75	22-28-8143
15	1.500	1.400	WM6315-ND	1.34	1.19	.79	22-28-8153
16	1.600	1.500	WM6316-ND	1.42	1.25	.84	22-28-8163
17	1.700	1.600	WM6317-ND	1.49	1.32	.88	22-28-8173
18	1.800	1.700	WM6318-ND	1.57	1.39	.93	22-28-8183
19	1.900	1.800	WM6319-ND	1.64	1.45	.97	22-28-8193
20	2.000	1.900	WM6320-ND	1.72	1.52	1.02	22-28-8203
21	2.100	2.000	WM6321-ND	1.79	1.59	1.06	22-28-8213
22	2.200	2.100	WM6322-ND	1.87	1.65	1.10	22-28-8223
23	2.300	2.200	WM6323-ND	1.94	1.72	1.15	22-28-8233
24	2.400	2.300	WM6324-ND	2.02	1.79	1.19	22-28-8243
25	2.500	2.400	WM6325-ND	2.09	1.85	1.24	22-28-8253
26	2.600	2.500	WM6326-ND	2.17	1.92	1.28	22-28-8263
27	2.700	2.600	WM6327-ND	2.24	1.99	1.33	22-28-8273
28	2.800	2.700	WM6328-ND	2.32	2.05	1.37	22-28-8283
29	2.900	2.800	WM6329-ND	2.40	2.12	1.41	22-28-8293
30	3.000	2.900	WM6330-ND	2.47	2.18	1.46	22-28-8303
31	3.100	3.000	WM6331-ND	2.55	2.25	1.50	22-28-8313
32	3.200	3.100	WM6332-ND	2.62	2.32	1.55	22-28-8323
33	3.300	3.200	WM6333-ND	2.70	2.38	1.59	22-28-8333
34	3.400	3.300	WM6334-ND	2.77	2.45	1.64	22-28-8343
35	3.500	3.400	WM6335-ND	2.85	2.52	1.68	22-28-8353
36	3.600	3.500	WM6336-ND	2.92	2.58	1.72	22-28-8363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6402-ND	.28	.25	.17	22-28-4020
3	.300	.200	WM6403-ND	.32	.28	.19	22-28-4030
4	.400	.300	WM6404-ND	.35	.31	.21	22-28-4040
5	.500	.400	WM6405-ND	.38	.34	.23	22-28-4050
6	.600	.500	WM6406-ND	.42	.37	.25	22-28-4060
7	.700	.600	WM6407-ND	.45	.40	.27	22-28-4070
8	.800	.700	WM6408-ND	.49	.43	.29	22-28-4080
9	.900	.800	WM6409-ND	.52	.46	.31	22-28-4090
10	1.000	.900	WM6410-ND	.55	.49	.33	22-28-4100
11	1.100	1.000	WM6411-ND	.59	.52	.35	22-28-4110
12	1.200	1.100	WM6412-ND	.62	.55	.37	22-28-4120
13	1.300	1.200	WM6413-ND	.66	.58	.39	22-28-4130
14	1.400	1.300	WM6414-ND	.69	.61	.41	22-28-4140
15	1.500	1.400	WM6415-ND	.73	.64	.43	22-28-4150
16	1.600	1.500	WM6416-ND	.76	.68	.45	22-28-4160
17	1.700	1.600	WM6417-ND	.79	.71	.47	22-28-4170
18	1.800	1.700	WM6418-ND	.83	.74	.49	22-28-4180
19	1.900	1.800	WM6419-ND	.86	.77	.51	22-28-4190
20	2.000	1.900	WM6420-ND	.90	.80	.53	22-28-4200
21	2.100	2.000	WM6421-ND	.93	.83	.55	22-28-4210
22	2.200	2.100	WM6422-ND	.97	.86	.57	22-28-4220
23	2.300	2.200	WM6423-ND	1.00	.89	.59	22-28-4230
24	2.400	2.300	WM6424-ND	1.03	.92	.61	22-28-4240
25	2.500	2.400	WM6425-ND	1.07	.95	.63	22-28-4250
26	2.600	2.500	WM6426-ND	1.10	.98	.65	22-28-4260
27	2.700	2.600	WM6427-ND	1.14	1.01	.67	22-28-4270
28	2.800	2.700	WM6428-ND	1.17	1.04	.69	22-28-4280
29	2.900	2.800	WM6429-ND	1.21	1.07	.71	22-28-4290
30	3.000	2.900	WM6430-ND	1.24	1.10	.73	22-28-4300
31	3.100	3.000	WM6431-ND	1.27	1.13	.75	22-28-4310
32	3.200	3.100	WM6432-ND	1.31	1.16	.77	22-28-4320
33	3.300	3.200	WM6433-ND	1.34	1.19	.79	22-28-4330
34	3.400	3.300	WM6434-ND	1.38	1.22	.81	22-28-4340
35	3.500	3.400	WM6435-ND	1.41	1.25	.83	22-28-4350
36	3.600	3.500	WM6436-ND	1.44	1.28	.85	22-28-4360
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM6502-ND	.31	.28	.19	22-28-4023
3	.300	.200	WM6503-ND	.35	.32	.21	22-28-4033
4	.400	.300	WM6504-ND	.40	.36	.24	22-28-4043
5	.500	.400	WM6505-ND	.45	.40	.27	22-28-4053
6	.600	.500	WM6506-ND	.50	.44	.30	22-28-4063
7	.700	.600	WM6507-ND	.54	.48	.33	22-28-4073
8	.800	.700	WM6508-ND	.59	.53	.35	22-28-4083
9	.900	.800	WM6509-ND	.64	.57	.38	22-28-4093
10	1.000	.900	WM6510-ND	.69	.61	.41	22-28-4103
11	1.100	1.000	WM6511-ND	.73	.65	.44	22-28-4113

(Continued)

.100 KK® and .100 C-Grid® Breakaway Headers *(Cont.)*

Cir-cuits	Dim. Inch		Digi-Key	Price Each			Molex
	A	B	Part No.	1	10	100	Part No.
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
12	1.200	1.100	WM6512-ND	.78	.69	.46	22-28-4123
13	1.300	1.200	WM6513-ND	.83	.74	.49	22-28-4133
14	1.400	1.300	WM6514-ND	.88	.78	.52	22-28-4143
15	1.500	1.400	WM6515-ND	.92	.82	.55	22-28-4153
16	1.600	1.500	WM6516-ND	.97	.86	.58	22-28-4163
17	1.700	1.600	WM6517-ND	1.02	.90	.60	22-28-4173
18	1.800	1.700	WM6518-ND	1.07	.94	.63	22-28-4183
19	1.900	1.800	WM6519-ND	1.11	.99	.66	22-28-4193
20	2.000	1.900	WM6520-ND	1.16	1.03	.69	22-28-4203
21	2.100	2.000	WM6521-ND	1.21	1.07	.72	22-28-4213
22	2.200	2.100	WM6522-ND	1.26	1.11	.74	22-28-4223
23	2.300	2.200	WM6523-ND	1.30	1.15	.77	22-28-4233
24	2.400	2.300	WM6524-ND	1.35	1.20	.80	22-28-4243
25	2.500	2.400	WM6525-ND	1.40	1.24	.83	22-28-4253
26	2.600	2.500	WM6526-ND	1.44	1.28	.85	22-28-4263
27	2.700	2.600	WM6527-ND	1.49	1.32	.88	22-28-4273
28	2.800	2.700	WM6528-ND	1.54	1.36	.91	22-28-4283
29	2.900	2.800	WM6529-ND	1.59	1.40	.94	22-28-4293
30	3.000	2.900	WM6530-ND	1.63	1.45	.97	22-28-4303
31	3.100	3.000	WM6531-ND	1.68	1.49	.99	22-28-4313
32	3.200	3.100	WM6532-ND	1.73	1.53	1.02	22-28-4323
33	3.300	3.200	WM6533-ND	1.78	1.57	1.05	22-28-4333
34	3.400	3.300	WM6534-ND	1.82	1.61	1.08	22-28-4343
35	3.500	3.400	WM6535-ND	1.87	1.66	1.11	22-28-4353
36	3.600	3.500	WM6536-ND	1.92	1.70	1.13	22-28-4363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6602-ND	.31	.28	.19	22-28-4021
3	.300	.200	WM6603-ND	.35	.32	.21	22-28-4031
4	.400	.300	WM6604-ND	.40	.36	.24	22-28-4041
5	.500	.400	WM6605-ND	.45	.40	.27	22-28-4051
6	.600	.500	WM6606-ND	.50	.44	.30	22-28-4061
7	.700	.600	WM6607-ND	.54	.48	.33	22-28-4071
8	.800	.700	WM6608-ND	.59	.53	.35	22-28-4081
9	.900	.800	WM6609-ND	.64	.57	.38	22-28-4091
10	1.000	.900	WM6610-ND	.69	.61	.41	22-28-4101
11	1.100	1.000	WM6611-ND	.73	.65	.44	22-28-4111
12	1.200	1.100	WM6612-ND	.78	.69	.46	22-28-4121
13	1.300	1.200	WM6613-ND	.83	.74	.49	22-28-4131
14	1.400	1.300	WM6614-ND	.88	.78	.52	22-28-4141
15	1.500	1.400	WM6615-ND	.92	.82	.55	22-28-4151
16	1.600	1.500	WM6616-ND	.97	.86	.58	22-28-4161
17	1.700	1.600	WM6617-ND	1.02	.90	.60	22-28-4171
18	1.800	1.700	WM6618-ND	1.07	.94	.63	22-28-4181
19	1.900	1.800	WM6619-ND	1.11	.99	.66	22-28-4191
20	2.000	1.900	WM6620-ND	1.16	1.03	.69	22-28-4201
21	2.100	2.000	WM6621-ND	1.21	1.07	.72	22-28-4211
22	2.200	2.100	WM6622-ND	1.26	1.11	.74	22-28-4221
23	2.300	2.200	WM6623-ND	1.30	1.15	.77	22-28-4231
24	2.400	2.300	WM6624-ND	1.35	1.20	.80	22-28-4241
25	2.500	2.400	WM6625-ND	1.40	1.24	.83	22-28-4251
26	2.600	2.500	WM6626-ND	1.44	1.28	.85	22-28-4261
27	2.700	2.600	WM6627-ND	1.49	1.32	.88	22-28-4271
28	2.800	2.700	WM6628-ND	1.54	1.36	.91	22-28-4281
29	2.900	2.800	WM6629-ND	1.59	1.40	.94	22-28-4291
30	3.000	2.900	WM6630-ND	1.63	1.45	.97	22-28-4301
31	3.100	3.000	WM6631-ND	1.68	1.49	.99	22-28-4311
32	3.200	3.100	WM6632-ND	1.73	1.53	1.02	22-28-4321
33	3.300	3.200	WM6633-ND	1.78	1.57	1.05	22-28-4331
34	3.400	3.300	WM6634-ND	1.82	1.61	1.08	22-28-4341
35	3.500	3.400	WM6635-ND	1.87	1.66	1.11	22-28-4351
36	3.600	3.500	WM6636-ND	1.92	1.70	1.13	22-28-4361
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM6702-ND	.33	.30	.20	22-28-4024
3	.300	.200	WM6703-ND	.39	.35	.23	22-28-4034
4	.400	.300	WM6704-ND	.45	.40	.27	22-28-4044
5	.500	.400	WM6705-ND	.51	.45	.30	22-28-4054
6	.600	.500	WM6706-ND	.57	.50	.34	22-28-4064
7	.700	.600	WM6707-ND	.62	.56	.37	22-28-4074
8	.800	.700	WM6708-ND	.68	.61	.41	22-28-4084
9	.900	.800	WM6709-ND	.74	.66	.44	22-28-4094
10	1.000	.900	WM6710-ND	.80	.71	.48	22-28-4104
11	1.100	1.000	WM6711-ND	.86	.76	.51	22-28-4114
12	1.200	1.100	WM6712-ND	.92	.81	.54	22-28-4124
13	1.300	1.200	WM6713-ND	.98	.87	.58	22-28-4134
14	1.400	1.300	WM6714-ND	1.04	.92	.61	22-28-4144
15	1.500	1.400	WM6715-ND	1.09	.97	.65	22-28-4154
16	1.600	1.500	WM6716-ND	1.15	1.02	.68	22-28-4164
17	1.700	1.600	WM6717-ND	1.21	1.07	.72	22-28-4174
18	1.800	1.700	WM6718-ND	1.27	1.13	.75	22-28-4184
19	1.900	1.800	WM6719-ND	1.33	1.18	.79	22-28-4194
20	2.000	1.900	WM6720-ND	1.39	1.23	.82	22-28-4204
21	2.100	2.000	WM6721-ND	1.45	1.28	.86	22-28-4214
22	2.200	2.100	WM6722-ND	1.51	1.33	.89	22-28-4224
23	2.300	2.200	WM6723-ND	1.56	1.39	.93	22-28-4234
24	2.400	2.300	WM6724-ND	1.62	1.44	.96	22-28-4244
25	2.500	2.400	WM6725-ND	1.68	1.49	.99	22-28-4254
26	2.600	2.500	WM6726-ND	1.74	1.54	1.03	22-28-4264
27	2.700	2.600	WM6727-ND	1.80	1.59	1.06	22-28-4274
28	2.800	2.700	WM6728-ND	1.86	1.64	1.10	22-28-4284
29	2.900	2.800	WM6729-ND	1.92	1.70	1.13	22-28-4294
30	3.000	2.900	WM6730-ND	1.98	1.75	1.17	22-28-4304
31	3.100	3.000	WM6731-ND	2.04	1.80	1.20	22-28-4314
32	3.200	3.100	WM6732-ND	2.09	1.85	1.24	22-28-4324
33	3.300	3.200	WM6733-ND	2.15	1.90	1.27	22-28-4334
34	3.400	3.300	WM6734-ND	2.21	1.96	1.31	22-28-4344
35	3.500	3.400	WM6735-ND	2.27	2.01	1.34	22-28-4354
36	3.600	3.500	WM6736-ND	2.33	2.06	1.37	22-28-4364
.100 C-Grid® Breakaway Header							
Fig. 3 — Dual Row - Vertical - 15µ min. Select Gold							
4	.190	.100	WM6804-ND	.42	.38	.25	10-89-1041
6	.290	.200	WM6806-ND	.53	.47	.32	10-89-1061
8	.390	.300	WM6808-ND	.63	.56	.38	10-89-1081
10	.490	.400	WM6810-ND	.74	.66	.44	10-89-1101
12	.590	.500	WM6812-ND	.85	.75	.50	10-89-1121
14	.690	.600	WM6814-ND	.95	.84	.56	10-89-1141
16	.790	.700	WM6816-ND	1.06	.94	.63	10-89-1161
18	.890	.800	WM6818-ND	1.16	1.03	.69	10-89-1181
20	.990	.900	WM6820-ND	1.27	1.12	.75	10-89-1201
22	1.090	1.000	WM6822-ND	1.37	1.22	.81	10-89-1221
24	1.190	1.100	WM6824-ND	1.48	1.31	.88	10-89-1241
26	1.290	1.200	WM6826-ND	1.58	1.40	.94	10-89-1261
28	1.390	1.300	WM6828-ND	1.69	1.50	1.00	10-89-1281
30	1.490	1.400	WM6830-ND	1.80	1.59	1.06	10-89-1301
32	1.590	1.500	WM6832-ND	1.90	1.68	1.12	10-89-1321
34	1.690	1.600	WM6834-ND	2.01	1.78	1.19	10-89-1341
36	1.790	1.700	WM6836-ND	2.11	1.87	1.25	10-89-1361
38	1.890	1.800	WM6838-ND	2.22	1.96	1.31	10-89-1381
40	1.990	1.900	WM6840-ND	2.32	2.05	1.37	10-89-1401
42	2.090	2.000	WM6842-ND	2.43	2.15	1.43	10-89-1421
44	2.190	2.100	WM6844-ND	2.53	2.24	1.50	10-89-1441
46	2.290	2.200	WM6846-ND	2.64	2.33	1.56	10-89-1461
48	2.390	2.300	WM6848-ND	2.75	2.43	1.62	10-89-1481
50	2.490	2.400	WM6850-ND	2.85	2.52	1.68	10-89-1501
52	2.590	2.500	WM6852-ND	2.96	2.61	1.74	10-89-1521
54	2.690	2.600	WM6854-ND	3.06	2.71	1.81	10-89-1541
56	2.790	2.700	WM6856-ND	3.17	2.80	1.87	10-89-1561
58	2.890	2.800	WM6858-ND	3.27	2.89	1.93	10-89-1581
60	2.990	2.900	WM6860-ND	3.38	2.99	1.99	10-89-1601
62	3.090	3.000	WM6862-ND	3.48	3.08	2.05	10-89-1621
64	3.190	3.100	WM6864-ND	3.59	3.17	2.12	10-89-1641
66	3.290	3.200	WM6866-ND	3.70	3.27	2.18	10-89-1661
68	3.390	3.300	WM6868-ND	3.80	3.36	2.24	10-89-1681
70	3.490	3.400	WM6870-ND	3.91	3.45	2.30	10-89-1701
72	3.590	3.500	WM6872-ND	4.01	3.55	2.37	10-89-1721
74	3.690	3.600	WM6874-ND	4.12	3.64	2.43	10-89-1741
76	3.790	3.700	WM6876-ND	4.22	3.73	2.49	10-89-1761
78	3.890	3.800	WM6878-ND	4.33	3.82	2.55	10-89-1781
80	3.990	3.900	WM6880-ND	4.43	3.92	2.61	10-89-1801
Fig. 3 — Dual Row - Vertical - 150µ Tin/Lead, Nickel Overall							
4	.190	.100	WM6904-ND	.40	.36	.24	10-88-1041
6	.290	.200	WM6906-ND	.49	.44	.29	10-88-1061
8	.390	.300	WM6908-ND	.58	.52	.35	10-88-1081
10	.490	.400	WM6910-ND	.68	.60	.40	10-88-1101
12	.590	.500	WM6912-ND	.77	.68	.46	10-88-1121
14	.690	.600	WM6914-ND	.86	.76	.51	10-88-1141
16	.790	.700	WM6916-ND	.95	.85	.57	10-88-1161
18	.890	.800	WM6918-ND	1.05	.93	.62	10-88-1181
20	.990	.900	WM6920-ND	1.14	1.01	.68	10-88-1201
22	1.090	1.000	WM6922-ND	1.23	1.09	.73	10-88-1221
24	1.190	1.100	WM6924-ND	1.33	1.17	.78	10-88-1241
26	1.290	1.200	WM6926-ND	1.42	1.26	.84	10-88-1261
28	1.390	1.300	WM6928-ND	1.51	1.34	.89	10-88-1281
30	1.490	1.400	WM6930-ND	1.60	1.42	.95	10-88-1301
32	1.590	1.500	WM6932-ND	1.70	1.50	1.00	10-88-1321
34	1.690	1.600	WM6934-ND	1.79	1.58	1.06	10-88-1341
36	1.790	1.700	WM6936-ND	1.88	1.66	1.11	10-88-1361
38	1.890	1.800	WM6938-ND	1.97	1.75	1.17	10-88-1381
40	1.990	1.900	WM6940-ND	2.07	1.83	1.22	10-88-1401
42	2.090	2.000	WM6942-ND	2.16	1.91	1.28	10-88-1421
44	2.190	2.100	WM6944-ND	2.25	1.99	1.33	10-88-1441
46	2.290	2.200	WM6946-ND	2.34	2.07	1.38	10-88-1461
48	2.390	2.300	WM6948-ND	2.44	2.16	1.44	10-88-1481
50	2.490	2.400	WM6950-ND	2.53	2.24	1.49	10-88-1501
52	2.590	2.500	WM6952-ND	2.62	2.32	1.55	10-88-1521
54	2.690	2.600	WM6954-ND	2.72	2.40	1.60	10-88-1541
56	2.790	2.700	WM6956-ND	2.81	2.48	1.66	10-88-1561
58	2.890	2.800	WM6958-ND	2.90	2.56	1.71	10-88-1581
60	2.990	2.900	WM6960-ND	2.99	2.65	1.77	10-88-1601
62	3.090	3.000	WM6962-ND	3.09	2.73	1.82	10-88-1621
64	3.190	3.100	WM6964-ND	3.18	2.81	1.88	10-88-1641
66	3.290	3.200	WM6966-ND	3.27	2.89	1.93	10-88-1661
68	3.390	3.300	WM6968-ND	3.36	2.97	1.98	10-88-1681
70	3.490	3.400	WM6970-ND	3.46	3.06	2.04	10-88-1701
72	3.590	3.500	WM6972-ND	3.55	3.14	2.09	10-88-1721
74	3.690	3.600	WM6974-ND	3.64	3.22	2.15	10-88-1741
76	3.790	3.700	WM6976-ND	3.74	3.30	2.20	10-88-1761
78	3.890	3.800	WM6978-ND	3.83	3.38	2.26	10-88-1781
80	3.990	3.900	WM6980-ND	3.92	3.46	2.31	10-88-1801
Fig. 4 — Dual Row, Low Profile - Right Angle, 15µ min. Select Gold							
4	.190	.100	WM7004-ND	.66	.58	.39	10-89-1046
6	.290	.200	WM7006-ND	.88	.78	.52	10-89-1066
8	.390	.300	WM7008-ND	1.10	.98	.65	10-89-1086
10	.490	.400	WM7010-ND	1.32	1.17	.78	10-89-1106
12	.590	.500	WM7012-ND	1.55	1.37	.91	10-89-1126
14	.690	.600	WM7014-ND	1.77	1.56	1.04	10-89-1146
16	.790	.700	WM7016-ND	1.99	1.76	1.18	10-89-1166
18	.890	.800	WM7018-ND	2.21	1.96	1.31	10-89-1186
20	.990	900	WM7020-ND	2.43	2.15	1.44	10-89-1206
22	1.090	1.000	WM7022-ND	2.66	2.35	1.57	10-89-1226
24	1.190	1.100	WM7024-ND	2.88	2.54	1.70	10-89-1246
26	1.290	1.200	WM7026-ND	3.10	2.74	1.83	10-89-1266
28	1.390	1.300	WM7028-ND	3.32	2.94	1.96	10-89-1286
30	1.490	1.400	WM7030-ND	3.54	3.13	2.09	10-89-1306
32	1.590	1.500	WM7032-ND	3.77	3.33	2.22	10-89-1326
34	1.690	1.600	WM7034-ND	3.99	3.52	2.35	10-89-1346
36	1.790	1.700	WM7036-ND	4.21	3.72	2.48	10-89-1366
38	1.890	1.800	WM7038-ND	4.43	3.92	2.61	10-89-1386
40	1.990	1.900	WM7040-ND	4.65	4.11	2.74	10-89-1406
42	2.090	2.000	WM7042-ND	4.88	4.31	2.87	10-89-1426
44	2.190	2.100	WM7044-ND	5.10	4.50	3.00	10-89-1446
46	2.290	2.200	WM7046-ND	5.32	4.70	3.13	10-89-1466
48	2.390	2.300	WM7048-ND	5.54	4.90	3.27	10-89-1486
50	2.490	2.400	WM7050-ND	5.76	5.09	3.40	10-89-1506
52	2.590	2.500	WM7052-ND	5.99	5.29	3.53	10-89-1526
54	2.690	2.600	WM7054-ND	6.21	5.48	3.66	10-89-1546
56	2.790	2.700	WM7056-ND	6.43	5.68	3.79	10-89-1566
58	2.890	2.800	WM7058-ND	6.65	5.88	3.92	10-89-1586
60	2.990	2.900	WM7060-ND	6.88	6.07	4.05	10-89-1606
62	3.090	3.000	WM7062-ND	7.10	6.27	4.18	10-89-1626
64	3.190	3.100	WM7064-ND	7.32	6.46	4.31	10-89-1646
66	3.290	3.200	WM7066-ND	7.54	6.66	4.44	10-89-1666
68	3.390	3.300	WM7068-ND	7.76	6.85	4.57	10-89-1686
70	3.490	3.400	WM7070-ND	7.99	7.05	4.70	10-89-1706
72	3.590	3.500	WM7072-ND	8.21	7.25	4.83	10-89-1726
74	3.690	3.600	WM7074-ND	8.43	7.44	4.96	10-89-1746
76	3.790	3.700	WM7076-ND	8.65	7.64	5.09	10-89-1766
78	3.890	3.800	WM7078-ND	8.87	7.83	5.23	10-89-1786
80	3.990	3.900	WM7080-ND	9.10	8.03	5.36	10-89-1806
Fig. 4 — Dual Row, Low Profile - Right Angle, 150µ Tin/Lead, Nickel Overall							
4	.190	.100	WM7104-ND	.44	.39	.26	10-88-1045
6	.290	.200	WM7106-ND	.55	.49	.33	10-88-1065
8	.390	.300	WM7108-ND	.66	.59	.39	10-88-1085
10	.490	.400	WM7110-ND	.77	.69	.46	10-88-1105
12	.590	.500	WM7112-ND	.89	.79	.53	10-88-1125
14	.690	.600	WM7114-ND	1.00	.89	.59	10-88-1145
16	.790	.700	WM7116-ND	1.11	.98	.66	10-88-1165
18	.890	.800	WM7118-ND	1.22	1.08	.72	10-88-1185
20	.990	.900	WM7120-ND	1.34	1.18	.79	10-88-1205
22	1.090	1.000	WM7122-ND	1.45	1.28	.86	10-88-1225
24	1.190	1.100	WM7124-ND	1.56	1.38	.92	10-88-1245
26	1.290	1.200	WM7126-ND	1.67	1.48	.99	10-88-1265
28	1.390	1.300	WM7128-ND	1.78	1.58	1.05	10-88-1285
30	1.490	1.400	WM7130-ND	1.90	1.68	1.12	10-88-1305
32	1.590	1.500	WM7132-ND	2.01	1.78	1.19	10-88-1325
34	1.690	1.600	WM7134-ND	2.12	1.88	1.25	10-88-1345
36	1.790	1.700	WM7136-ND	2.23	1.97	1.32	10-88-1365
38	1.890	1.800	WM7138-ND	2.35	2.07	1.38	10-88-1385
40	1.990	1.900	WM7140-ND	2.46	2.17	1.45	10-88-1405
42	2.090	2.000	WM7142-ND	2.57	2.27	1.52	10-88-1425
44	2.190	2.100	WM7144-ND	2.68	2.37	1.58	10-88-1445
46	2.290	2.200	WM7146-ND	2.79	2.47	1.65	10-88-1465
48	2.390	2.300	WM7148-ND	2.91	2.57	1.71	10-88-1485
50	2.490	2.400	WM7150-ND	3.02	2.67	1.78	10-88-1505
52	2.590	2.500	WM7152-ND	3.13	2.77	1.85	10-88-1525
54	2.690	2.600	WM7154-ND	3.24	2.87	1.91	10-88-1545
56	2.790	2.700	WM7156-ND	3.36	2.97	1.98	10-88-1565
58	2.890	2.800	WM7158-ND	3.47	3.06	2.04	10-88-1585
60	2.990	2.900	WM7160-ND	3.58	3.16	2.11	10-88-1605
62	3.090	3.000	WM7162-ND	3.69	3.26	2.18	10-88-1625
64	3.190	3.100	WM7164-ND	3.80	3.36	2.24	10-88-1645
66	3.290	3.200	WM7166-ND	3.92	3.46	2.31	10-88-1665
68	3.390	3.300	WM7168-ND	4.03	3.56	2.38	10-88-1685
70	3.490	3.400	WM7170-ND	4.14	3.66	2.44	10-88-1705
72	3.590	3.500	WM7172-ND	4.25	3.76	2.51	10-88-1725
74	3.690	3.600	WM7174-ND	4.37	3.86	2.57	10-88-1745
76	3.790	3.700	WM7176-ND	4.48	3.96	2.64	10-88-1765
78	3.890	3.800	WM7178-ND	4.59	4.05	2.71	10-88-1785
80	3.990	3.900	WM7180-ND	4.70	4.15	2.77	10-88-1805

“Toy Car” Battery Connector

Fig. 1 – Plug

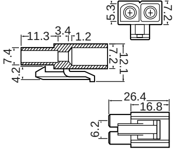


Fig. 2 – Socket

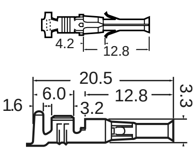


Fig. 3 – Receptacle

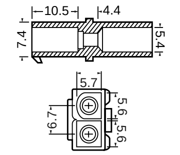
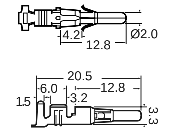


Fig. 4 – Pin

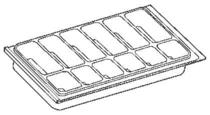


- 15 Amp current rating per circuit
- 300V voltage rating
- 14-20 AWG wire range
- Nylon 6/6 housing 94V-2
- Industry standard product for radio controlled toy cars

Fig.	Digi-Key Part No.	Pricing 1	10	50	100	Molex Part No.
1	WM2308-ND	.44	3.84	17.94	25.63	351-43-0201
2	WM2311-ND	.10	.88	4.10	5.86	357-28-0201
3	WM2309-ND	.42	3.72	17.38	24.83	351-41-0201
4	WM2310-ND	.11	1.00	4.67	6.68	357-27-0201

WM9999-ND Universal Crimp Tool (Waldom) .... **$38.36 each**

Crimp Terminal Connector Kits



WM9803 Kit Qty.	Item	WM9804 Kit Qty.
36	Crimp Terminal Housings	48
18	Straight Headers	24
18	Right Angle Headers	24
10	Shunts	—
100	Crimp Term (22-30 AWG)	—
—	Crimping Term (18-24 AWG)	100
—	Crimping Tool HT-1919	1
1	Crimping Tool HT-1921	—
1	Extractor Tool HT-1884	1

Description	Digi-Key Part No.	Price Each	Molex Part No.
.100” Connector Kit	WM9803-ND	38.69	KK-100
.156” Connector Kit	WM9804-ND	38.95	KK-156

C-Grid® SL™ .100

• **Plating:** 15 microinches min. gold. **MATERIAL:** • **Pins:** .025”square, phosphor bronze. • **Insulator**: UL 94V-0 glass filled PCT, black; Vapor phase and infrared process compatible. **ELECTRICAL**: • **Current Rating**: 3 amps. • **Insulation Resistance:** 1,000 megaohms. • **Dielectric Strength:** 600 VAC r.m.s for 1 minute. **ENVIRONMENTAL**: • **Operating Temperature:** -40°C to +105°C. • UL Listed & CSA Certified.

Fig. 1 – “G” Version, End-to-End Stackable (Use C-Grid Crimp Terminals sold separately)

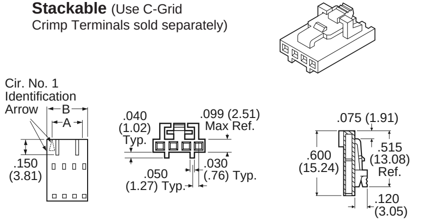


Fig. 2 – “A” Version (Use C-Grid Crimp Terminals sold separately)

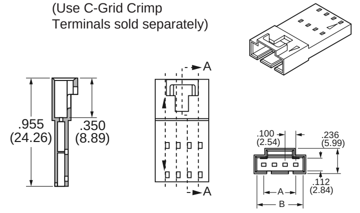


Fig. 3 – Straight Header

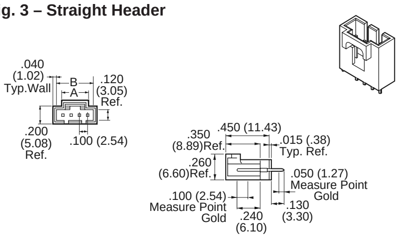


Fig. 4 – Right Angle Header

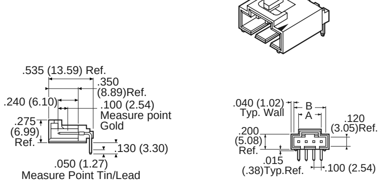


Fig. 5 – Right Angle Header SMT *NEW!*

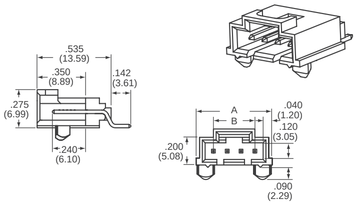


Fig. 6 – Straight Header SMT *NEW!*

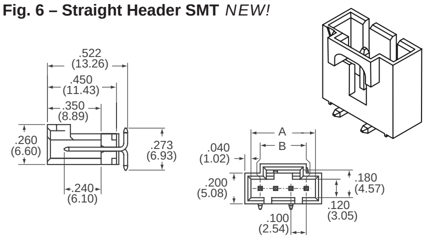


Fig.	Cir- cuits	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
Receptacle Housing (Contact Sold Separately)									
1	2	.100 (2.54)	.199 (5.05)	WM2900-ND	.48	3.80	31.70	126.78	50-57-9402
	3	.200 (5.08)	.299 (7.59)	WM2901-ND	.63	5.08	42.30	169.18	50-57-9403
	4	.300 (7.62)	.399 (10.13)	WM2902-ND	.46	3.71	30.93	123.70	50-57-9404
	5	.400 (10.16)	.499 (12.67)	WM2903-ND	.57	4.58	38.13	152.53	50-57-9405
	6	.500 (12.70)	.599 (15.21)	WM2904-ND	.66	5.26	43.81	175.22	50-57-9406
	7	.600 (15.24)	.699 (17.75)	WM2905-ND	.74	5.94	49.50	198.01	50-57-9407
	8	.700 (17.78)	.799 (20.29)	WM2906-ND	.80	6.40	53.29	213.17	50-57-9408
	9	.800 (20.32)	.899 (22.83)	WM2907-ND	.81	6.49	54.06	216.24	50-57-9409
	10	.900 (22.86)	.999 (25.37)	WM2908-ND	.82	6.53	54.46	217.83	50-57-9410
	11	1.00 (25.40)	1.099 (27.91)	WM2909-ND *NEW!*	.87	6.94	57.80	231.19	50-57-9411
	12	1.10 (27.94)	1.199 (30.45)	WM2910-ND *NEW!*	.75	6.02	50.17	200.66	50-57-9412
	13	1.20 (30.48)	1.299 (32.99)	WM2911-ND *NEW!*	1.06	8.48	70.68	282.70	50-57-9413
	14	1.30 (33.02)	1.399 (35.53)	WM2912-ND *NEW!*	1.15	9.21	76.77	307.08	50-57-9414
	15	1.40 (35.56)	1.499 (38.07)	WM2913-ND *NEW!*	1.20	9.62	80.19	320.76	50-57-9415
	16	1.50 (38.10)	1.599 (40.61)	WM2914-ND *NEW!*	1.27	10.12	84.35	337.40	50-57-9416
	17	1.60 (40.64)	1.699 (43.15)	WM2915-ND *NEW!*	1.31	10.49	87.42	349.69	50-57-9417
	18	1.70 (43.18)	1.799 (45.69)	WM2916-ND *NEW!*	1.38	11.04	91.98	367.93	50-57-9418
	19	1.80 (45.72)	1.899 (48.23)	WM2917-ND *NEW!*	1.69	13.50	112.52	450.08	50-57-9419
	20	1.90 (48.26)	1.999 (50.77)	WM2918-ND *NEW!*	1.75	14.00	116.68	466.72	50-57-9420
	21	2.00 (50.80)	2.099 (53.31)	WM2919-ND *NEW!*	1.80	14.41	120.10	480.39	50-57-9421
	22	2.10 (53.34)	2.199 (55.85)	WM2920-ND *NEW!*	1.85	14.83	123.54	494.17	50-57-9422
	23	2.20 (55.88)	2.299 (58.39)	WM2921-ND *NEW!*	1.90	15.24	126.96	507.85	50-57-9423
	24	2.30 (58.42)	2.399 (60.93)	WM2922-ND *NEW!*	1.97	15.74	131.15	524.59	50-57-9424
	25	2.40 (60.96)	2.499 (63.47)	WM2923-ND *NEW!*	2.02	16.19	134.94	539.75	50-57-9425
Pin Housing (Contact Sold Separately)									
2	2	.100 (2.54)	.220 (5.59)	WM2533-ND	.89	7.12	59.36	237.44	70107-0001
	3	.200 (5.08)	.320 (8.13)	WM2534-ND	.90	7.22	60.13	240.51	70107-0002
	4	.300 (7.62)	.420 (10.67)	WM2535-ND	.92	7.40	61.67	246.66	70107-0003
	5	.400 (10.16)	.520 (13.21)	WM2536-ND	1.06	8.44	70.36	281.43	70107-0004
	6	.500 (12.70)	.620 (15.75)	WM2537-ND	1.37	10.95	91.27	365.06	70107-0005
	7	.600 (15.24)	.720 (18.29)	WM2538-ND	1.39	11.08	92.35	369.41	70107-0006
	8	.700 (17.78)	.820 (20.83)	WM2539-ND	1.42	11.37	94.79	379.16	70107-0007
	9	.800 (20.32)	.920 (23.37)	WM2540-ND	1.45	11.59	96.57	386.26	70107-0008
	10	.900 (22.86)	1.020 (25.91)	WM2541-ND	1.51	12.05	100.38	401.53	70107-0009
15μ” Min. Gold									
3	2	.100 (2.54)	.290 (7.37)	WM4800-ND	.89	7.11	59.28	237.12	70543-0001
	3	.200 (5.08)	.400 (10.17)	WM4801-ND	.89	7.08	59.02	236.06	70543-0002
	4	.300 (7.62)	.500 (12.71)	WM4802-ND	.96	7.65	63.73	254.93	70543-0003
	5	.400 (10.16)	.600 (15.25)	WM4803-ND	1.10	8.82	73.49	293.94	70543-0004
	6	.500 (12.70)	.700 (17.79)	WM4804-ND	1.11	8.92	74.31	297.22	70543-0005
	7	.600 (15.24)	.800 (20.33)	WM4805-ND	1.37	10.99	91.56	366.23	70543-0006
	8	.700 (17.78)	.900 (22.87)	WM4806-ND	1.47	11.77	98.10	392.41	70543-0007
	9	.800 (20.32)	1.000 (25.41)	WM4807-ND	1.57	12.56	104.65	418.59	70543-0008
	10	.900 (22.86)	1.100 (27.95)	WM4808-ND	1.67	13.35	111.22	444.88	70543-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4809-ND *NEW!*	1.92	15.38	128.18	512.72	70543-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4810-ND *NEW!*	2.04	16.28	135.71	542.83	70543-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4811-ND *NEW!*	2.14	17.10	142.49	569.96	70543-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4812-ND *NEW!*	2.25	18.01	150.10	600.38	70543-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4813-ND *NEW!*	2.36	18.88	157.36	629.43	70543-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4814-ND *NEW!*	2.47	19.77	164.73	658.90	70543-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4815-ND *NEW!*	2.57	20.52	171.01	684.02	70543-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4816-ND *NEW!*	2.67	21.34	177.87	711.47	70543-0017
	19	1.80 (45.72)	2.000 (50.81)	WM4817-ND *NEW!*	2.72	21.75	181.26	725.04	70543-0018
	20	1.90 (48.26)	2.100 (53.35)	WM4818-ND *NEW!*	2.87	22.99	191.54	766.17	70543-0019
	21	2.00 (50.80)	2.200 (55.89)	WM4819-ND *NEW!*	3.01	24.04	200.37	801.47	70543-0020

(Continued)

C-Grid® SL™ .100 *(Cont.)*

Fig.	Cir-cuits	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
3	22	2.10 (53.34)	2.300 (58.43)	WM4820-ND *NEW!*	3.08	24.64	205.32	821.29	70543-0021
	23	2.20 (55.88)	2.400 (60.97)	WM4821-ND *NEW!*	3.22	25.73	214.41	857.65	70543-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4822-ND *NEW!*	3.30	26.41	220.11	880.44	70543-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4823-ND *NEW!*	3.43	27.42	228.48	913.93	70543-0024
NEW! 150µ” Tin/Lead NEW!									
3	2	.100 (2.54)	.290 (7.37)	WM4824-ND	.88	7.02	58.51	234.05	70543-0036
	3	.200 (5.08)	.400 (10.17)	WM4825-ND	.94	7.53	62.73	250.90	70543-0037
	4	.300 (7.62)	.500 (12.71)	WM4826-ND	1.01	8.12	67.63	270.51	70543-0038
	5	.400 (10.16)	.600 (15.25)	WM4827-ND	1.07	8.57	71.45	285.78	70543-0039
	6	.500 (12.70)	.700 (17.79)	WM4828-ND	.93	7.41	61.72	246.87	70543-0040
	7	.600 (15.24)	.800 (20.33)	WM4829-ND	1.20	9.63	80.22	320.86	70543-0041
	8	.700 (17.78)	.900 (22.87)	WM4830-ND	1.25	10.04	83.64	334.54	70543-0042
	9	.800 (20.32)	1.000 (25.41)	WM4831-ND	1.32	10.53	87.77	351.07	70543-0043
	10	.900 (22.86)	1.100 (27.95)	WM4832-ND	1.39	11.13	92.72	370.89	70543-0044
	11	1.00 (25.40)	1.200 (30.49)	WM4833-ND	1.45	11.60	96.65	386.58	70543-0045
	12	1.10 (27.94)	1.300 (33.03)	WM4834-ND	1.50	12.04	100.30	401.21	70543-0046
15µ” Min. Gold									
4	2	.100 (2.54)	.290 (7.37)	WM4900-ND	.75	6.00	50.03	200.13	70553-0001
	3	.200 (5.08)	.400 (10.17)	WM4901-ND	.98	7.85	65.43	261.71	70553-0002
	4	.300 (7.62)	.500 (12.71)	WM4902-ND	1.02	8.16	68.00	272.00	70553-0003
	5	.400 (10.16)	.600 (15.25)	WM4903-ND	1.18	9.45	78.79	315.14	70553-0004
	6	.500 (12.70)	.700 (17.79)	WM4904-ND	1.18	9.47	78.92	315.67	70553-0005
	7	.600 (15.24)	.800 (20.33)	WM4905-ND	1.37	10.99	91.56	366.23	70553-0006
	8	.700 (17.78)	.900 (22.87)	WM4906-ND	1.47	11.77	98.10	392.41	70553-0007
	9	.800 (20.32)	1.000 (25.41)	WM4907-ND	1.57	12.56	104.65	418.59	70553-0008
	10	.900 (22.86)	1.100 (27.95)	WM4908-ND	1.67	13.35	111.22	444.88	70553-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4909-ND *NEW!*	1.92	15.38	128.18	512.72	70553-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4910-ND *NEW!*	2.04	16.28	135.71	542.83	70553-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4911-ND *NEW!*	2.14	17.10	142.49	569.96	70553-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4912-ND *NEW!*	2.25	18.01	150.12	600.49	70553-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4913-ND *NEW!*	2.36	18.88	157.36	629.43	70553-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4914-ND *NEW!*	2.47	19.77	164.73	658.90	70553-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4915-ND *NEW!*	2.57	20.52	171.03	684.12	70553-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4916-ND *NEW!*	2.67	21.34	177.87	711.47	70553-0017
	19	1.80 (45.72)	2.000 (50.81)	WM4917-ND *NEW!*	2.79	22.34	186.19	744.76	70553-0018
	20	1.90 (48.26)	2.100 (53.35)	WM4918-ND *NEW!*	2.87	22.99	191.54	766.17	70553-0019
	21	2.00 (50.80)	2.200 (55.89)	WM4919-ND *NEW!*	3.01	24.04	200.37	801.47	70553-0020
	22	2.10 (53.34)	2.300 (58.43)	WM4920-ND *NEW!*	3.08	24.64	205.32	821.29	70553-0021
4	23	2.20 (55.88)	2.400 (60.97)	WM4921-ND *NEW!*	3.22	25.73	214.44	857.75	70553-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4922-ND *NEW!*	3.30	26.42	220.14	880.54	70553-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4923-ND *NEW!*	3.43	27.42	228.48	913.93	70553-0024
NEW! 150µ” Tin/Lead NEW!									
4	2	.100 (2.54)	.290 (7.37)	WM4924-ND	.88	7.02	58.51	234.05	70553-0036
	3	.200 (5.08)	.400 (10.17)	WM4925-ND	.94	7.53	62.73	250.90	70553-0037
	4	.300 (7.62)	.500 (12.71)	WM4926-ND	.86	6.84	57.00	228.01	70553-0038
	5	.400 (10.16)	.600 (15.25)	WM4927-ND	1.07	8.57	71.45	285.78	70553-0039
	6	.500 (12.70)	.700 (17.79)	WM4928-ND	1.14	9.11	75.95	303.80	70553-0040
	7	.600 (15.24)	.800 (20.33)	WM4929-ND	1.20	9.63	80.22	320.86	70553-0041
	8	.700 (17.78)	.900 (22.87)	WM4930-ND	1.25	10.04	83.64	334.54	70553-0042
	9	.800 (20.32)	1.00 (25.41)	WM4931-ND	1.31	10.51	87.58	350.33	70553-0043
	10	.900 (22.86)	1.10 (27.95)	WM4932-ND	1.39	11.13	92.72	370.89	70553-0044
	11	1.00 (25.40)	1.20 (30.49)	WM4933-ND	1.45	11.60	96.65	386.58	70553-0045
	12	1.10 (27.94)	1.30 (33.03)	WM4934-ND	1.50	12.04	100.30	401.21	70553-0046
NEW! 15µ” Gold NEW!									
5	2	.340 (8.63)	.100 (2.54)	WM1340-ND	2.69	21.48	179.04	716.14	15-91-2025
	3	.450 (11.43)	.200 (5.08)	WM1341-ND	2.73	21.85	182.08	728.33	15-91-2035
	4	.550 (13.97)	.300 (7.62)	WM1342-ND	2.81	22.44	187.04	748.15	15-91-2045
	5	.650 (16.51)	.400 (10.16)	WM1343-ND	2.87	22.94	191.20	764.79	15-91-2055
	6	.750 (19.05)	.500 (12.70)	WM1344-ND	2.92	23.35	194.62	778.46	15-91-2065
	7	.850 (21.59)	.600 (15.24)	WM1345-ND	2.98	23.81	198.41	793.62	15-91-2075
	8	.950 (24.13)	.700 (17.78)	WM1346-ND	3.03	24.22	201.83	807.30	15-91-2085
	9	1.050 (26.67)	.800 (20.32)	WM1347-ND	3.08	24.63	205.27	821.08	15-91-2095
	10	1.150 (29.21)	.900 (22.86)	WM1348-ND	3.15	25.23	210.23	840.90	15-91-2105
	11	1.250 (31.75)	1.00 (25.40)	WM1349-ND	3.70	29.56	246.37	985.48	15-91-2115
	12	1.350 (34.29)	1.10 (27.94)	WM1350-ND	4.28	34.21	285.11	1140.45	15-91-2125
NEW! 15µ” Gold NEW!									
6	3	.320 (8.13)	.200 (5.08)	WM7203-ND	1.28	10.27	85.54	342.17	74099-1003
	4	.420 (10.67)	.300 (7.62)	WM7204-ND	1.32	10.54	87.80	351.18	74099-1004
	5	.520 (13.21)	.400 (10.16)	WM7205-ND	1.39	11.08	92.35	369.41	74099-1005
	6	.620 (15.75)	.500 (12.70)	WM7206-ND	1.60	12.77	106.40	425.59	74099-1006
	7	.720 (18.29)	.600 (15.24)	WM7207-ND	1.62	12.96	107.96	431.84	74099-1007
	8	.820 (20.83)	.700 (17.78)	WM7208-ND	1.99	15.92	132.69	530.74	74099-1008
	9	.920 (23.37)	.800 (20.32)	WM7209-ND	2.13	17.06	142.15	568.58	74099-1009
	10	1.020 (25.91)	.900 (22.86)	WM7210-ND	2.27	18.20	151.66	606.64	74099-1010
	11	1.120 (28.45)	1.000 (25.40)	WM7211-ND	2.33	18.62	155.19	620.74	74099-1011
	12	1.220 (30.99)	1.100 (27.94)	WM7212-ND	2.42	19.39	161.57	646.28	74099-1012

C-Grid® Crimp Connector Housings

Fig. 1 – “A” Version

“A” Version, Non-Polarized, End-to-End & Side-by-Side Stackable. Mates w/ Unshrouded Headers.

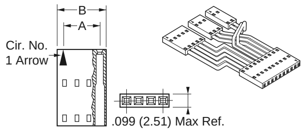


Fig. 2 – “A” Version

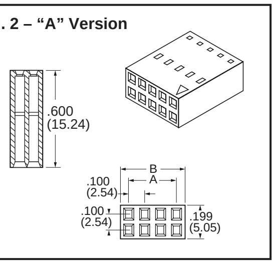


Fig.	Cir-cuits	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
1	2	.100 (2.54)	.199 (5.05)	WM2800-ND	.58	5.09	33.95	135.79	50-57-9002
	3	.200 (5.08)	.299 (7.59)	WM2801-ND	.72	6.34	42.30	169.18	50-57-9003
	4	.300 (7.62)	.399 (10.13)	WM2802-ND	.74	6.57	43.81	175.22	50-57-9004
	5	.400 (10.16)	.499 (12.67)	WM2803-ND	.78	6.88	45.85	183.38	50-57-9005
	6	.500 (12.70)	.599 (15.21)	WM2804-ND	.82	7.20	47.99	191.97	50-57-9006
	7	.600 (15.24)	.699 (17.75)	WM2805-ND	.86	7.60	50.67	202.67	50-57-9007
	8	.700 (17.78)	.799 (20.29)	WM2806-ND	.91	7.99	53.29	213.17	50-57-9008
	9	.800 (20.32)	.899 (22.83)	WM2807-ND	.96	8.51	56.74	226.95	50-57-9009
	10	.900 (22.86)	.999 (25.37)	WM2808-ND	1.01	8.90	59.36	237.44	50-57-9010
2	4	.100 (2.54)	.199 (5.05)	WM2519-ND	1.98	17.45	116.31	465.23	22-55-2041
	6	.200 (5.08)	.299 (7.59)	WM2520-ND	1.71	15.11	100.73	402.91	22-55-2061
	8	.300 (7.62)	.399 (10.13)	WM2521-ND	2.16	19.10	127.31	509.22	22-55-2081
	10	.400 (10.16)	.499 (12.67)	WM2522-ND	2.26	19.94	132.95	531.80	22-55-2101
	12	.500 (12.70)	.599 (15.21)	WM2523-ND	2.35	20.75	138.30	553.21	22-55-2121
	14	.600 (15.24)	.699 (17.75)	WM2524-ND	2.45	21.60	143.98	575.90	22-55-2141
	16	.700 (17.78)	.799 (20.29)	WM2525-ND	2.53	22.34	148.93	595.72	22-55-2161
	18	.800 (20.32)	.899 (22.83)	WM2526-ND	2.62	23.13	154.23	616.92	22-55-2181
	20	.900 (22.86)	.999 (25.37)	WM2527-ND	2.72	23.99	159.96	639.82	22-55-2201
	22	1.000 (25.40)	1.099 (27.91)	WM2528-ND	2.81	24.79	165.26	661.02	22-55-2221
	24	1.100 (27.95)	1.199 (30.45)	WM2529-ND	2.91	25.64	170.95	683.81	22-55-2241
	30	1.400 (35.56)	1.499 (38.07)	WM2530-ND	3.15	27.81	185.37	741.47	22-55-2301
	40	1.900 (48.26)	1.999 (50.77)	WM2531-ND	3.64	32.13	214.20	856.80	22-55-2401
	50	2.400 (60.96)	2.499 (63.47)	WM2532-ND	4.10	36.17	241.15	964.60	22-55-2501

C-Grid®
Box Crimp Terminals

Terminal Material:
Phosphor Bronze.

Current Rating:
3.0 Amps (24AWG)
30°C Rise Over
Ambient.

UL Listed and CSA Certified.

Fig. 1

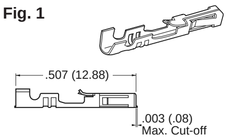


Fig. 2

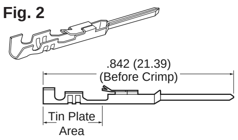


Fig.	Wire Range	Insul. Dia. Inch (mm)	Plating	Digi-Key Part No.	Pricing 10	100	500	1,000	Molex Part No.
1	22-24	.064 (1.63)	Tin‡	WM2510-ND	.90	7.47	29.89	49.62	16-02-0102
				WM2510CT-ND∞	—	7.47	29.89	49.62	16-02-0086
				WM2510TR-ND◊		737.60/20,000			16-02-0086
	24-30	.060 (1.52)	Tin‡	WM2511-ND	.90	7.47	29.89	49.62	16-02-0096
	22-24	.064 (1.63)	Gold†	WM2512-ND	1.34	11.16	44.63	74.09	16-02-0103
				WM2512CT-ND∞	—	11.16	44.63	74.09	16-02-0087
				WM2512TR-ND◊		1195.60/20,000			16-02-0087
	24-30	.060 (1.52)	Gold†	WM2513-ND	1.34	11.16	44.63	74.09	16-02-0097
	22-24	.064 (1.63)	Tin‡	WM2556-ND*	1.19	9.94	39.75	65.99	16-02-1114
	24-30	.060 (1.52)	Tin‡	WM2557-ND*	1.19	9.94	39.75	65.99	16-02-1116
	22-24	.064 (1.63)	Gold†	WM2554-ND*	1.89	15.74	62.96	104.51	16-02-1125
	24-30	.060 (1.52)	Gold†	WM2555-ND*	1.89	15.74	62.96	104.51	16-02-1109
2	22-24	.064 (1.63)	Tin‡	WM2517-ND	.90	7.47	29.89	49.62	16-02-0114
				WM2517CT-ND∞	—	7.47	29.89	49.62	16-02-0107
				WM2517TR-ND◊		686.80/20,000			16-02-0107
	24-30	.060 (1.52)	Tin‡	WM2518-ND	.90	7.47	29.89	49.62	16-02-0108
	22-24	.064 (1.63)	Gold†	WM2515-ND	1.44	12.01	48.02	79.71	16-02-0115
				WM2515CT-ND∞	—	12.01	48.02	79.71	16-02-0081
				WM2515TR-ND◊		1144.80/20,000			16-02-0081
	24-30	.060 (1.52)	Gold†	WM2516-ND	1.43	11.93	47.70	79.18	16-02-0109
Universal Crimp Tool (Molex)				WM9999-ND		38.36 each			63811-1000
C-Grid Hand Crimper 22-24 & 32-36 AWG				WM9917-ND		180.33 each			11-01-0208
C-Grid Hand Crimper 24 - 30 AWG				WM9919-ND		180.33 each			11-01-0209
Insertion Tool				WM9911-ND		9.29 each			11-02-0022

* High pressure type for low pin count. ‡150µ” tin/lead over 50µ” nickel overall.
† 15µ” min. gold in select area over 50µ” min. nickel overall with 75µ” min. tin/lead in select area.
∞ CT = Cut Tape. ◊ TR = Tape and Reel.

Micro-Fit 3.0™ Connectors

Features: • Fully isolated contacts • Fully polarized to mating receptacle • Integral pull tabs for ease in unmating **Electrical:** 250V *Current:* 5.0A max. *Contact Res.:* 10mΩ max. *Dielectric Withstanding Volt:* 1500VAC *Insulation Res.:* 1,000MΩ min. **Physical:** *Housing:* Polyester, UL 94V-0 *Contact:* Phosphor Bronze *Plating:* Tin or Gold
BMI Features and Benefits: Connectors float in panel cutout up to 1.27mm (.050") in any direction. Use standard Micro-Fit terminals. Innovative panel mounting design holds connectors firmly in place. Fully isolated contacts prevent terminal damage. Fully polarized to completely prevent mismating.

Fig. 1

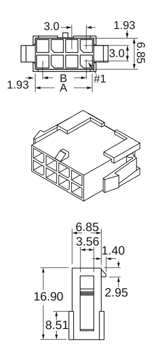


Fig. 2

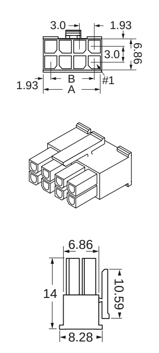


Fig. 3

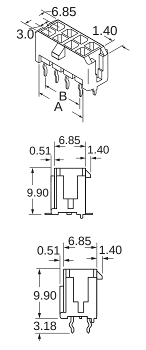


Fig. 4

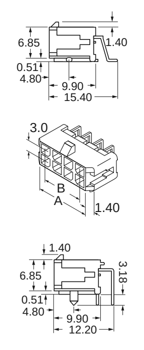


Fig. 5 – Blind Mate

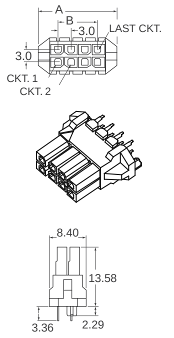


Fig. 6 – Blind Mate

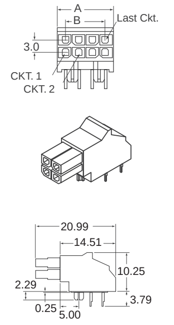


Fig. 7 – Blind Mate

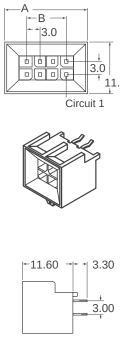


Fig.	Circuits	Dim. (mm) A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Plug Housing - Panel Mount (uses male terminal)									
1	2	3.85	—	—	WM1777-ND	.52	.46	.31	43020-0200
	4	6.85	3.00	—	WM1778-ND	.59	.52	.35	43020-0400
	6	9.85	6.00	—	WM1779-ND	.69	.61	.41	43020-0600
	8	12.85	9.00	—	WM1780-ND	.77	.68	.46	43020-0800
	10	15.85	12.00	—	WM1781-ND	.88	.78	.52	43020-1000
	12	18.85	15.00	—	WM1782-ND	1.02	.90	.60	43020-1200
	14	21.85	18.00	—	WM2483-ND *NEW!*	1.14	1.01	.68	43020-1400
	16	24.85	21.00	—	WM2484-ND *NEW!*	1.31	1.16	.77	43020-1600
	18	27.85	24.00	—	WM2485-ND *NEW!*	1.46	1.29	.86	43020-1800
	20	30.85	27.00	—	WM2486-ND *NEW!*	1.62	1.43	.96	43020-2000
	22	33.85	30.00	—	WM2487-ND *NEW!*	1.77	1.56	1.05	43020-2200
	24	36.85	33.00	—	WM2488-ND *NEW!*	1.93	1.71	1.14	43020-2400
Receptacle Housing (uses female terminal)									
2	2	3.85	—	—	WM1783-ND	.52	.46	.31	43025-0200
	4	6.85	3.00	—	WM1784-ND	.59	.52	.35	43025-0400
	6	9.85	6.00	—	WM1785-ND	.69	.61	.41	43025-0600
	8	12.85	9.00	—	WM1786-ND	.77	.68	.46	43025-0800
	10	15.85	12.00	—	WM1787-ND	.88	.78	.52	43025-1000
	12	18.85	15.00	—	WM1788-ND	1.02	.90	.60	43025-1200
	14	21.85	18.00	—	WM2489-ND *NEW!*	1.14	1.01	.68	43025-1400
	16	24.85	21.00	—	WM2490-ND *NEW!*	1.31	1.16	.77	43025-1600
	18	27.85	24.00	—	WM2491-ND *NEW!*	1.46	1.29	.86	43025-1800
	20	30.85	27.00	—	WM2492-ND *NEW!*	1.62	1.43	.96	43025-2000
	22	33.85	30.00	—	WM2493-ND *NEW!*	1.76	1.56	1.04	43025-2200
	24	36.85	33.00	—	WM2494-ND *NEW!*	1.93	1.71	1.14	43025-2400
Vertical Header - Through-Hole with Offset Terminal Retention									
3	2	3.85	—	Tin	WM1789-ND	.92	.82	.55	43045-0212
	4	6.85	3.00	Tin	WM1790-ND	1.27	1.13	.75	43045-0412
	6	9.85	6.00	Tin	WM1791-ND	1.61	1.42	.95	43045-0612
	8	12.85	9.00	Tin	WM1792-ND	1.96	1.73	1.16	43045-0812
	10	15.85	12.00	Tin	WM1793-ND	2.29	2.03	1.35	43045-1012
	12	18.85	15.00	Tin	WM1794-ND	2.65	2.34	1.56	43045-1212
	14	24.65	18.00	Tin	WM4711-ND *NEW!*	3.02	2.67	1.78	43045-1412
	16	27.65	21.00	Tin	WM4712-ND *NEW!*	3.36	2.97	1.98	43045-1612
	18	30.65	24.00	Tin	WM4713-ND *NEW!*	3.78	3.34	2.23	43045-1812
	20	33.65	27.00	Tin	WM4714-ND *NEW!*	4.20	3.71	2.48	43045-2012
	22	36.65	30.00	Tin	WM4715-ND *NEW!*	4.62	4.08	2.72	43045-2212
	24	39.65	33.00	Tin	WM4716-ND *NEW!*	5.03	4.44	2.96	43045-2412
	2	3.85	—	Gold, 30μ"	WM1795-ND	1.45	1.28	.86	43045-0214
	4	6.85	3.00	Gold, 30μ"	WM1796-ND	2.00	1.77	1.18	43045-0414
	6	9.85	6.00	Gold, 30μ"	WM1797-ND	2.54	2.25	1.50	43045-0614
	8	12.85	9.00	Gold, 30μ"	WM1798-ND	3.07	2.71	1.81	43045-0814
	10	15.85	12.00	Gold, 30μ"	WM1799-ND	3.66	3.24	2.16	43045-1014
	12	18.85	15.00	Gold, 30μ"	WM1800-ND	4.14	3.65	2.44	43045-1214
	14	24.65	18.00	Gold	WM4717-ND *NEW!*	4.72	4.17	2.78	43045-1414
	16	27.65	21.00	Gold	WM4718-ND *NEW!*	5.25	4.63	3.09	43045-1614
	18	30.65	24.00	Gold	WM4719-ND *NEW!*	5.90	5.21	3.48	43045-1814
	20	33.65	27.00	Gold	WM4720-ND *NEW!*	7.27	6.42	4.28	43045-2014
	22	36.65	30.00	Gold	WM4721-ND *NEW!*	7.21	6.37	4.25	43045-2214
	24	39.65	33.00	Gold	WM4722-ND *NEW!*	7.86	6.94	4.63	43045-2414
Vertical Header - SMT with Fitting Nail									
3	2	3.85	—	Tin	WM1801-ND	2.81	2.48	1.66	43045-0218
	4	6.85	3.00	Tin	WM1802-ND	3.24	2.86	1.91	43045-0418
	6	9.85	6.00	Tin	WM1803-ND	4.06	3.59	2.39	43045-0618
	8	12.85	9.00	Tin	WM1804-ND	4.18	3.70	2.47	43045-0818
	10	15.85	12.00	Tin	WM1805-ND	4.60	4.06	2.71	43045-1018
	12	18.85	15.00	Tin	WM1806-ND	5.01	4.42	2.95	43045-1218
	2	3.85	—	Gold, 30μ"	WM1807-ND	3.46	3.06	2.04	43045-0220
	4	6.85	3.00	Gold, 30μ"	WM1808-ND	4.14	3.66	2.44	43045-0420
	6	9.85	6.00	Gold, 30μ"	WM1809-ND	4.80	4.24	2.83	43045-0620
	8	12.85	9.00	Gold, 30μ"	WM1810-ND	5.57	4.92	3.28	43045-0820
	10	15.85	12.00	Gold, 30μ"	WM1811-ND	6.23	5.50	3.67	43045-1020
	12	18.85	15.00	Gold, 30μ"	WM1812-ND	6.88	6.07	4.05	43045-1220
Right Angle Header - Through-Hole									
4	2	3.85	—	Tin	WM1813-ND	1.20	1.07	.71	43045-0200
	4	6.85	3.00	Tin	WM1814-ND	1.53	1.36	.91	43045-0400
	6	9.85	6.00	Tin	WM1815-ND	1.94	1.71	1.14	43045-0600
	8	12.85	9.00	Tin	WM1816-ND	2.36	2.09	1.40	43045-0800
	10	15.85	12.00	Tin	WM1817-ND	2.77	2.45	1.63	43045-1000
	12	18.85	15.00	Tin	WM1818-ND	3.18	2.81	1.88	43045-1200
	14	24.65	18.00	Tin	WM4723-ND *NEW!*	3.63	3.21	2.14	43045-1400
	16	27.65	21.00	Tin	WM4724-ND *NEW!*	4.05	3.58	2.39	43045-1600
	18	30.65	24.00	Tin	WM4725-ND *NEW!*	4.56	4.02	2.68	43045-1800
	20	33.65	27.00	Tin	WM4726-ND *NEW!*	5.07	4.47	2.98	43045-2000
4	22	36.65	30.00	Tin	WM4727-ND *NEW!*	5.57	4.92	3.28	43045-2200
	24	39.65	33.00	Tin	WM4728-ND *NEW!*	6.07	5.36	3.58	43045-2400
	2	3.85	—	Gold, 30μ"	WM1819-ND	1.76	1.55	1.04	43045-0202
	4	6.85	3.00	Gold, 30μ"	WM1820-ND	2.41	2.13	1.42	43045-0402
	6	9.85	6.00	Gold, 30μ"	WM1821-ND	3.06	2.70	1.81	43045-0602
	8	12.85	9.00	Gold, 30μ"	WM1822-ND	3.72	3.29	2.20	43045-0802
	10	15.85	12.00	Gold, 30μ"	WM1823-ND	4.38	3.87	2.58	43045-1002
	12	18.85	15.00	Gold, 30μ"	WM1824-ND	5.06	4.47	2.98	43045-1202
	14	24.65	18.00	Gold	WM4729-ND *NEW!*	5.67	5.01	3.34	43045-1402
	16	27.65	21.00	Gold	WM4730-ND *NEW!*	6.34	5.60	3.73	43045-1602
	18	30.65	24.00	Gold	WM4731-ND *NEW!*	7.13	6.30	4.20	43045-1802
	20	33.65	27.00	Gold	WM4732-ND *NEW!*	7.92	6.99	4.66	43045-2002
	22	36.65	30.00	Gold	WM4733-ND *NEW!*	8.72	7.70	5.13	43045-2202
	24	39.65	33.00	Gold	WM4734-ND *NEW!*	9.50	8.39	5.60	43045-2402
Right Angle Header - SMT with Fitting Nail									
4	2	3.85	—	Tin	WM1825-ND	2.72	2.41	1.61	43045-0209
	4	6.85	3.00	Tin	WM1826-ND	3.28	2.90	1.93	43045-0409
	6	9.85	6.00	Tin	WM1827-ND	3.79	3.35	2.23	43045-0609
	8	12.85	9.00	Tin	WM1828-ND	4.42	3.90	2.60	43045-0809
	10	15.85	12.00	Tin	WM1829-ND	4.92	4.34	2.90	43045-1009
	12	18.85	15.00	Tin	WM1830-ND	5.42	4.78	3.19	43045-1209
	2	3.85	—	Gold, 30μ"	WM1831-ND	3.51	3.10	2.07	43045-0211
	4	6.85	3.00	Gold, 30μ"	WM1832-ND	4.36	3.85	2.57	43045-0411
	6	9.85	6.00	Gold, 30μ"	WM1833-ND	5.14	4.54	3.03	43045-0611
	8	12.85	9.00	Gold, 30μ"	WM1834-ND	6.09	5.38	3.59	43045-0811
	10	15.85	12.00	Gold, 30μ"	WM1835-ND	6.87	6.07	4.05	43045-1011
	12	18.85	15.00	Gold, 30μ"	WM1836-ND	7.68	6.78	4.52	43045-1211
BMI Vertical Receptacle Header with Friction Pegs (Blind Mate)									
5	4	12.00	3.00	Tin	WM1953-ND	2.38	2.11	1.41	44769-0401
	6	15.00	6.00	Tin	WM1954-ND	3.02	2.67	1.78	44769-0601
	8	18.00	9.00	Tin	WM1955-ND	3.67	3.24	2.16	44769-0801
	10	21.00	12.00	Tin	WM1956-ND	4.30	3.80	2.54	44769-1001
	12	24.00	15.00	Tin	WM1957-ND	4.93	4.36	2.91	44769-1201
	14	27.00	18.00	Tin	WM1958-ND	5.59	4.94	3.29	44769-1401
	16	30.00	21.00	Tin	WM1959-ND	6.22	5.49	3.66	44769-1601
	4	12.00	3.00	Gold	WM1960-ND	2.97	2.62	1.75	44769-0402
	6	15.00	6.00	Gold	WM1961-ND	3.77	3.33	2.22	44769-0602
	8	18.00	9.00	Gold	WM1962-ND	4.57	4.04	2.69	44769-0802
	10	21.00	12.00	Gold	WM1963-ND	5.38	4.75	3.17	44769-1002
	12	24.00	15.00	Gold	WM1964-ND	6.16	5.44	3.63	44769-1202
	14	27.00	18.00	Gold	WM1965-ND	6.97	6.15	4.10	44769-1402
	16	30.00	21.00	Gold	WM1966-ND	7.75	6.84	4.56	44769-1602
BMI Right Angle Receptacle Header with Friction Pegs (Blind Mate)									
6	4	6.70	3.00	Tin	WM1981-ND	2.85	2.52	1.68	44764-0401
	6	9.70	6.00	Tin	WM1982-ND	3.61	3.19	2.13	44764-0601
	8	12.70	9.00	Tin	WM1983-ND	4.41	3.90	2.60	44764-0801
	10	15.70	12.00	Tin	WM1984-ND	5.17	4.57	3.05	44764-1001
	12	18.70	15.00	Tin	WM1985-ND	5.94	5.25	3.50	44764-1201
	14	21.70	18.00	Tin	WM1986-ND	6.71	5.93	3.95	44764-1401
	16	24.70	21.00	Tin	WM1987-ND	7.49	6.62	4.41	44764-1601
	4	6.70	3.00	Gold	WM1988-ND	3.56	3.15	2.10	44764-0402
	6	9.70	6.00	Gold	WM1989-ND	4.51	3.99	2.66	44764-0602
	8	12.70	9.00	Gold	WM1990-ND	5.51	4.87	3.25	44764-0802
	10	15.70	12.00	Gold	WM1991-ND	6.45	5.70	3.80	44764-1002
	12	18.70	15.00	Gold	WM1992-ND	7.43	6.56	4.37	44764-1202
	14	21.70	18.00	Gold	WM1993-ND	8.37	7.39	4.93	44764-1402
	16	24.70	21.00	Gold	WM1994-ND	9.35	8.25	5.51	44764-1602
BMI Vertical Header with Polarizing Pegs (Blind Mate)									
7	4	13.00	3.00	Tin	WM1967-ND	1.71	1.51	1.01	44432-0401
	6	16.00	6.00	Tin	WM1968-ND	2.17	1.92	1.28	44432-0601
	8	19.00	9.00	Tin	WM1969-ND	2.63	2.33	1.55	44432-0801
	10	22.00	12.00	Tin	WM1970-ND	3.08	2.73	1.82	44432-1001
	12	25.00	15.00	Tin	WM1971-ND	3.53	3.12	2.08	44432-1201
	14	28.00	18.00	Tin	WM1972-ND	4.01	3.54	2.36	44432-1401
	16	31.00	21.00	Tin	WM1973-ND	4.46	3.94	2.63	44432-1601
	4	13.00	3.00	Gold	WM1974-ND	2.13	1.88	1.26	44432-0402
	6	16.00	6.00	Gold	WM1975-ND	2.70	2.39	1.59	44432-0602
	8	19.00	9.00	Gold	WM1976-ND	3.28	2.89	1.93	44432-0802
	10	22.00	12.00	Gold	WM1977-ND	3.85	3.40	2.27	44432-1002
	12	25.00	15.00	Gold	WM1978-ND	4.41	3.89	2.60	44432-1202
	14	28.00	18.00	Gold	WM1979-ND	4.99	4.41	2.94	44432-1402
	16	31.00	21.00	Gold	WM1980-ND	5.55	4.90	3.27	44432-1602

(Continued)

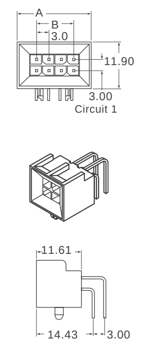


Fig. 8 – Blind Mate

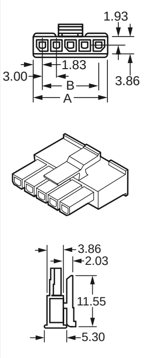


Fig. 9

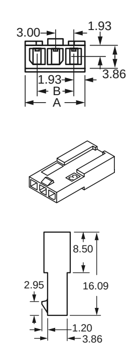


Fig. 10

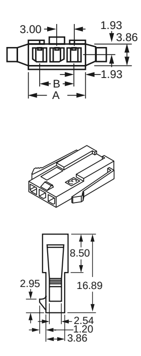


Fig. 11

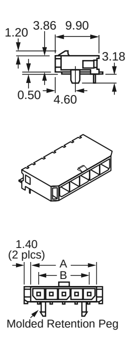


Fig. 12

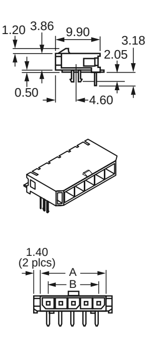


Fig. 13

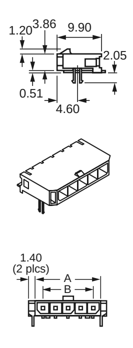


Fig. 14

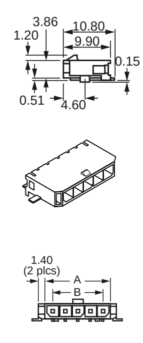


Fig. 15

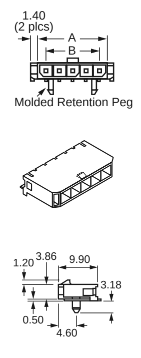


Fig. 16

Fig.	Cir-cuits	Dim. (mm)		Plating	Digi-Key Part No.	Price Each			Molex Part No.
		A	B			1	10	100	
Right Angle Header (Blind Mate)									
8	4	13.00	3.00	Tin	WM1995-ND	2.06	1.82	1.22	44428-0401
	6	16.00	6.00	Tin	WM1996-ND	2.60	2.30	1.53	44428-0601
	8	19.00	9.00	Tin	WM1997-ND	3.17	2.81	1.87	44428-0801
	10	22.00	12.00	Tin	WM1998-ND	3.72	3.29	2.19	44428-1001
	12	25.00	15.00	Tin	WM1999-ND	4.27	3.77	2.52	44428-1201
	14	28.00	18.00	Tin	WM2025-ND	4.82	4.26	2.84	44428-1401
	16	31.00	21.00	Tin	WM2026-ND	5.38	4.75	3.17	44428-1601
	4	13.00	3.00	Gold	WM2027-ND	2.57	2.27	1.52	44428-0402
	6	16.00	6.00	Gold	WM2028-ND	3.24	2.87	1.91	44428-0602
	8	19.00	9.00	Gold	WM2029-ND	3.96	3.50	2.33	44428-0802
	10	22.00	12.00	Gold	WM2030-ND	4.64	4.09	2.73	44428-1002
	12	25.00	15.00	Gold	WM2031-ND	5.32	4.70	3.13	44428-1202
	14	28.00	18.00	Gold	WM2032-ND	6.01	5.31	3.54	44428-1402
	16	31.00	21.00	Gold	WM2033-ND	6.71	5.92	3.95	44428-1602
Micro-Fit Receptacle Housing									
9	2	6.85	3.00	—	WM1845-ND	.52	.46	.31	43645-0200
	3	9.85	6.00	—	WM1846-ND	.55	.46	.33	43645-0300
	4	12.85	9.00	—	WM1847-ND	.59	.52	.35	43645-0400
	5	15.85	12.00	—	WM1848-ND	.64	.57	.38	43645-0500
	6	18.85	15.00	—	WM1849-ND	.69	.61	.41	43645-0600
	7	21.85	18.00	—	WM2405-ND *NEW!*	.69	.61	.41	43645-0700
	8	24.85	21.00	—	WM2406-ND *NEW!*	.73	.65	.43	43645-0800
	9	27.85	24.00	—	WM2407-ND *NEW!*	.79	.70	.47	43645-0900
	10	30.85	27.00	—	WM2408-ND *NEW!*	.84	.74	.50	43645-1000
	11	33.85	30.00	—	WM2409-ND *NEW!*	.91	.81	.54	43645-1100
	12	36.85	33.00	—	WM2410-ND *NEW!*	.98	.87	.58	43645-1200
Micro-Fit Plug Housing without Panel Mounts									
10	2	6.85	3.00	—	WM1855-ND	.52	.46	.31	43640-0201
	3	9.85	6.00	—	WM1856-ND	.55	.49	.33	43640-0301
	4	12.85	9.00	—	WM1857-ND	.59	.52	.35	43640-0401
	5	15.85	12.00	—	WM1858-ND	.64	.57	.38	43640-0501
	6	18.85	15.00	—	WM1859-ND	.69	.61	.41	43640-0601
	7	21.85	18.00	—	WM2417-ND *NEW!*	.69	.61	.41	43640-0701
	8	24.85	21.00	—	WM2418-ND *NEW!*	.73	.65	.43	43640-0801
	9	27.85	24.00	—	WM2419-ND *NEW!*	.79	.70	.47	43640-0901
	10	30.85	27.00	—	WM2420-ND *NEW!*	.84	.74	.50	43640-1001
	11	33.85	30.00	—	WM2421-ND *NEW!*	.91	.81	.54	43640-1101
	12	36.85	33.00	—	WM2422-ND *NEW!*	.98	.87	.58	43640-1201
Micro-Fit Plug Housing with Panel Mounts									
11	2	6.85	3.00	—	WM1850-ND	.52	.46	.31	43640-0200
	3	9.85	6.00	—	WM1851-ND	.56	.50	.33	43640-0300
	4	12.85	9.00	—	WM1852-ND	.59	.52	.35	43640-0400
	5	15.85	12.00	—	WM1853-ND	.64	.57	.38	43640-0500
	6	18.85	15.00	—	WM1854-ND	.69	.61	.41	43640-0600
	7	21.85	18.00	—	WM2411-ND *NEW!*	.69	.61	.41	43640-0700
	8	24.85	21.00	—	WM2412-ND *NEW!*	.73	.65	.43	43640-0800
	9	27.85	24.00	—	WM2413-ND *NEW!*	.78	.70	.47	43640-0900
	10	30.85	27.00	—	WM2414-ND *NEW!*	.84	.74	.50	43640-1000
	11	33.85	30.00	—	WM2415-ND *NEW!*	.91	.81	.54	43640-1100
	12	36.85	33.00	—	WM2416-ND *NEW!*	.98	.87	.58	43640-1200
Micro-Fit Header - Right Angle									
12	2	6.85	3.00	Tin	WM1860-ND	1.12	.99	.66	43650-0200
	3	9.85	6.00	Tin	WM1861-ND	1.33	1.18	.79	43650-0300
	4	12.85	9.00	Tin	WM1862-ND	1.55	1.37	.92	43650-0400
	5	15.85	12.00	Tin	WM1863-ND	1.76	1.56	1.04	43650-0500
	6	18.85	15.00	Tin	WM1864-ND	1.96	1.74	1.16	43650-0600
	7	21.85	18.00	Tin	WM2423-ND *NEW!*	2.19	1.94	1.29	43650-0700
	8	24.85	21.00	Tin	WM2424-ND *NEW!*	2.35	2.08	1.39	43650-0800
	9	27.85	24.00	Tin	WM2425-ND *NEW!*	2.62	2.32	1.55	43650-0900
	10	30.85	27.00	Tin	WM2426-ND *NEW!*	2.83	2.50	1.67	43650-1000
	11	33.85	30.00	Tin	WM2427-ND *NEW!*	3.04	2.69	1.80	43650-1100
	12	36.85	33.00	Tin	WM2428-ND *NEW!*	3.25	2.87	1.92	43650-1200
	2	6.85	3.00	Gold	WM1865-ND	1.41	1.24	.83	43650-0201
	3	9.85	6.00	Gold	WM1866-ND	1.66	1.47	.98	43650-0301
	4	12.85	9.00	Gold	WM1867-ND	1.91	1.69	1.13	43650-0401
	5	15.85	12.00	Gold	WM1868-ND	2.18	1.93	1.29	43650-0501
	6	18.85	15.00	Gold	WM1869-ND	2.47	2.18	1.46	43650-0601
	7	21.85	18.00	Gold	WM2429-ND *NEW!*	2.73	2.41	1.61	43650-0701
	8	24.85	21.00	Gold	WM2430-ND *NEW!*	3.00	2.65	1.77	43650-0801
	9	27.85	24.00	Gold	WM2431-ND *NEW!*	3.26	2.88	1.92	43650-0901
	10	30.85	27.00	Gold	WM2432-ND *NEW!*	3.52	3.11	2.07	43650-1001
	11	33.85	30.00	Gold	WM2433-ND *NEW!*	3.78	3.34	2.23	43650-1101
	12	36.85	33.00	Gold	WM2434-ND *NEW!*	4.04	3.57	2.38	43650-1201
Micro-Fit Header - Right Angle with Retention Clip									
13	2	6.85	3.00	Tin	WM1870-ND	1.40	1.24	.83	43650-0203
	3	9.85	6.00	Tin	WM1871-ND	1.61	1.42	.95	43650-0303
	4	12.85	9.00	Tin	WM1872-ND	1.74	1.54	1.03	43650-0403
	5	15.85	12.00	Tin	WM1873-ND	1.94	1.72	1.15	43650-0503
	6	18.85	15.00	Tin	WM1874-ND	2.21	1.95	1.30	43650-0603
	7	21.85	18.00	Tin	WM2435-ND *NEW!*	2.39	2.11	1.41	43650-0703
	8	24.85	21.00	Tin	WM2436-ND *NEW!*	2.61	2.30	1.54	43650-0803
	9	27.85	24.00	Tin	WM2437-ND *NEW!*	2.82	2.49	1.66	43650-0903
	10	30.85	27.00	Tin	WM2438-ND *NEW!*	3.02	2.67	1.78	43650-1003
	11	33.85	30.00	Tin	WM2439-ND *NEW!*	3.24	2.86	1.91	43650-1103
	12	36.85	33.00	Tin	WM2440-ND *NEW!*	3.44	3.04	2.03	43650-1203
	2	6.85	3.00	Gold	WM1875-ND	1.59	1.41	.94	43650-0204
	3	9.85	6.00	Gold	WM1876-ND	1.86	1.64	1.10	43650-0304
	4	12.85	9.00	Gold	WM1877-ND	2.13	1.88	1.25	43650-0404
	5	15.85	12.00	Gold	WM1878-ND	2.44	2.16	1.44	43650-0504
	6	18.85	15.00	Gold	WM1879-ND	2.62	2.32	1.55	43650-0604
	7	21.85	18.00	Gold	WM2441-ND *NEW!*	3.22	2.84	1.90	43650-0704
	8	24.85	21.00	Gold	WM2442-ND *NEW!*	3.24	2.86	1.91	43650-0804
	9	27.85	24.00	Gold	WM2443-ND *NEW!*	3.50	3.10	2.07	43650-0904
	10	30.85	27.00	Gold	WM2444-ND *NEW!*	3.76	3.32	2.22	43650-1004
	11	33.85	30.00	Gold	WM2445-ND *NEW!*	4.02	3.55	2.37	43650-1104
	12	36.85	33.00	Gold	WM2446-ND *NEW!*	4.28	3.78	2.52	43650-1204
Micro-Fit Header - Right Angle, SMT with Retention Clip									
14	2	6.85	3.00	Tin	WM1880-ND	2.59	2.29	1.53	43650-0209
	3	9.85	6.00	Tin	WM1881-ND	2.87	2.53	1.69	43650-0309
	4	12.85	9.00	Tin	WM1882-ND	3.14	2.78	1.85	43650-0409
	5	15.85	12.00	Tin	WM1883-ND	3.40	3.00	2.00	43650-0509
	6	18.85	15.00	Tin	WM1884-ND	3.65	3.22	2.15	43650-0609
	7	21.85	18.00	Tin	WM2447-ND *NEW!*	3.46	3.06	2.04	43650-0709
	8	24.85	21.00	Tin	WM2448-ND *NEW!*	3.08	2.72	1.82	43650-0809
	9	27.85	24.00	Tin	WM2449-ND *NEW!*	4.26	3.76	2.51	43650-0909
	10	30.85	27.00	Tin	WM2450-ND *NEW!*	4.98	4.40	2.93	43650-1009
	11	33.85	30.00	Tin	WM2451-ND *NEW!*	5.23	4.62	3.08	43650-1109
	12	36.85	33.00	Tin	WM2452-ND *NEW!*	5.47	4.84	3.23	43650-1209
	2	6.85	3.00	Gold	WM1885-ND	2.94	2.60	1.74	43650-0210
	3	9.85	6.00	Gold	WM1886-ND	3.28	2.90	1.93	43650-0310
	4	12.85	9.00	Gold	WM1887-ND	3.64	3.21	2.14	43650-0410
	5	15.85	12.00	Gold	WM1888-ND	3.93	3.47	2.32	43650-0510
	6	18.85	15.00	Gold	WM1889-ND	4.25	3.76	2.51	43650-0610
	7	21.85	18.00	Gold	WM2453-ND *NEW!*	4.09	3.61	2.41	43650-0710
	8	24.85	21.00	Gold	WM2454-ND *NEW!*	3.73	3.30	2.20	43650-0810
	9	27.85	24.00	Gold	WM2455-ND *NEW!*	4.78	4.22	2.81	43650-0910
	10	30.85	27.00	Gold	WM2456-ND *NEW!*	5.82	5.14	3.43	43650-1010
	11	33.85	30.00	Gold	WM2457-ND *NEW!*	6.14	5.42	3.62	43650-1110
	12	36.85	33.00	Gold	WM2458-ND *NEW!*	6.46	5.71	3.81	43650-1210
Micro-Fit Header - Right Angle, SMT with Fitting Nail									
15	2	6.85	3.00	Tin	WM1890-ND	2.72	2.41	1.61	43650-0212
	3	9.85	6.00	Tin	WM1891-ND	3.00	2.65	1.77	43650-0312
	4	12.85	9.00	Tin	WM1892-ND	3.29	2.91	1.94	43650-0412
	5	15.85	12.00	Tin	WM1893-ND	3.53	3.11	2.08	43650-0512
	6	18.85	15.00	Tin	WM1894-ND	3.78	3.34	2.23	43650-0612
	7	21.85	18.00	Tin	WM2459-ND *NEW!*	4.28	3.78	2.52	43650-0712
	8	24.85	21.00	Tin	WM2460-ND *NEW!*	4.60	4.06	2.71	43650-0812
	9	27.85	24.00	Tin	WM2461-ND *NEW!*	4.85	4.29	2.86	43650-0912
	10	30.85	27.00	Tin	WM2462-ND *NEW!*	5.11	4.51	3.01	43650-1012
	11	33.85	30.00	Tin	WM2463-ND *NEW!*	5.36	4.73	3.16	43650-1112
	12	36.85	33.00	Tin	WM2464-ND *NEW!*	5.60	4.95	3.30	43650-1212
	2	6.85	3.00	Gold	WM1895-ND	3.07	2.71	1.81	43650-0213
	3	9.85	6.00	Gold	WM1896-ND	3.41	3.02	2.01	43650-0313
	4	12.85	9.00	Gold	WM1897-ND	3.75	3.31	2.21	43650-0413
	5	15.85	12.00	Gold	WM1898-ND	4.06	3.59	2.40	43650-0513
	6	18.85	15.00	Gold	WM1899-ND	4.38	3.87	2.58	43650-0613
	7	21.85	18.00	Gold	WM2465-ND *NEW!*	4.95	4.37	2.92	43650-0713
	8	24.85	21.00	Gold	WM2466-ND *NEW!*	5.33	4.71	3.14	43650-0813
	9	27.85	24.00	Gold	WM2467-ND *NEW!*	5.64	4.98	3.32	43650-0913
	10	30.85	27.00	Gold	WM2468-ND *NEW!*	5.95	5.25	3.50	43650-1013
	11	33.85	30.00	Gold	WM2469-ND *NEW!*	6.27	5.54	3.69	43650-1113
	12	36.85	33.00	Gold	WM2470-ND *NEW!*	6.59	5.82	3.88	43650-1213
Micro-Fit Header - Right Angle, SMT with Retention Peg									
16	3	9.85	6.00	Tin	WM1901-ND	2.69	2.37	1.59	43650-0306
	4	12.85	9.00	Tin	WM1902-ND	2.96	2.62	1.75	43650-0406
	5	15.85	12.00	Tin	WM1903-ND	3.24	2.86	1.91	43650-0506
	6	18.85	15.00	Tin	WM1904-ND	3.47	3.06	2.04	43650-0606
	2	6.85	3.00	Gold	WM1905-ND	2.76	2.44	1.63	43650-0207
	3	9.85	6.00	Gold	WM1906-ND	3.10	2.74	1.83	43650-0307
	4	12.85	9.00	Gold	WM1907-ND	3.21	2.84	1.89	43650-0407
	5	15.85	12.00	Gold	WM1908-ND	3.75	3.31	2.21	43650-0507
	6	18.85	15.00	Gold	WM1909-ND	4.07	3.60	2.40	43650-0607

(Continued)

Micro-Fit 3.0™ Connectors *(Cont.)*

Fig. 17

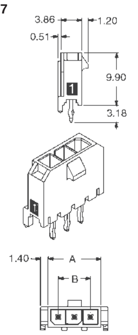


Fig. 18 – Blind Mate

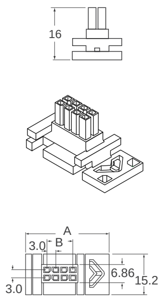


Fig. 19 – Blind Mate

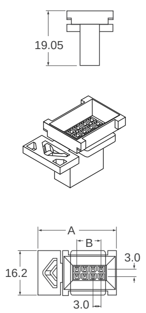
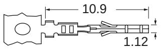
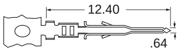


Fig.	Circuits	Dim. (mm) A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Micro-Fit Header - Vertical, Wire-to-Board									
17	2	6.85	3.00	Tin	WM1917-ND	.92	.81	.54	43650-0215
	3	9.85	6.00	Tin	WM1918-ND	1.27	1.12	.75	43650-0315
	4	12.85	9.00	Tin	WM1919-ND	1.28	1.13	.76	43650-0415
	5	15.85	12.00	Tin	WM1920-ND	1.45	1.28	.86	43650-0515
	6	18.85	15.00	Tin	WM1921-ND	1.62	1.43	.96	43650-0615
	7	21.85	18.00	Tin	WM2471-ND *NEW!*	1.84	1.62	1.09	43650-0715
	8	24.85	21.00	Tin	WM2472-ND *NEW!*	2.02	1.78	1.19	43650-0815
	9	27.85	24.00	Tin	WM2473-ND *NEW!*	2.19	1.94	1.30	43650-0915
	10	30.85	27.00	Tin	WM2474-ND *NEW!*	2.37	2.09	1.40	43650-1015
	11	33.85	30.00	Tin	WM2475-ND *NEW!*	2.55	2.25	1.50	43650-1115
	12	36.85	33.00	Tin	WM2476-ND *NEW!*	2.71	2.40	1.60	43650-1215
	2	6.85	3.00	Gold, 15µ”	WM1922-ND	1.16	1.03	.69	43650-0216
	3	9.85	6.00	Gold, 15µ”	WM1923-ND	1.38	1.22	.82	43650-0316
	4	12.85	9.00	Gold, 15µ”	WM1924-ND	1.59	1.41	.94	43650-0416
	5	15.85	12.00	Gold, 15µ”	WM1925-ND	1.83	1.62	1.08	43650-0516
	6	18.85	15.00	Gold, 15µ”	WM1926-ND	2.03	1.80	1.20	43650-0616
	7	21.85	18.00	Gold	WM2477-ND *NEW!*	2.28	2.01	1.34	43650-0716
	8	24.85	21.00	Gold	WM2478-ND *NEW!*	2.50	2.21	1.48	43650-0816
	9	27.85	24.00	Gold	WM2479-ND *NEW!*	2.72	2.40	1.61	43650-0916
	10	30.85	27.00	Gold	WM2480-ND *NEW!*	2.86	2.53	1.69	43650-1016
	11	33.85	30.00	Gold	WM2481-ND *NEW!*	3.17	2.80	1.87	43650-1116
	12	36.85	33.00	Gold	WM2482-ND *NEW!*	3.38	2.99	1.99	43650-1216
BMI Receptacle - Panel-to-Panel (Blind Mate)									
18	4	24.60	3.00	—	WM3712-ND	.70	.62	.42	44133-0400
	6	27.70	6.00	—	WM3713-ND	.84	.74	.50	44133-0600
	8	30.70	9.00	—	WM3714-ND	.96	.85	.57	44133-0800
	10	33.80	12.00	—	WM3715-ND	1.11	.99	.66	44133-1000
	12	36.80	15.00	—	WM3716-ND	1.32	1.17	.78	44133-1200
	14	39.90	18.00	—	WM3717-ND	1.54	1.36	.91	44133-1400
	16	42.90	21.00	—	WM3718-ND	1.78	1.58	1.05	44133-1600
	18	46.00	24.00	—	WM3719-ND	2.00	1.77	1.18	44133-1800
	20	49.00	27.00	—	WM3720-ND	2.23	1.97	1.31	44133-2000
	22	51.80	30.00	—	WM3721-ND	2.44	2.16	1.44	44133-2200
	24	54.90	33.00	—	WM3722-ND	2.68	2.37	1.58	44133-2400
BMI Plug - Panel-to-Panel (Blind Mate)									
19	4	22.84	3.00	—	WM3608-ND	.70	.62	.42	44300-0400
	6	25.84	6.00	—	WM3609-ND	.84	.74	.50	44300-0600
	8	28.84	9.00	—	WM3610-ND	.96	.85	.57	44300-0800
	10	31.84	12.00	—	WM3611-ND	1.11	.99	.66	44300-1000
	12	34.84	15.00	—	WM3612-ND	1.32	1.17	.78	44300-1200
	14	37.84	18.00	—	WM3613-ND	1.54	1.36	.91	44300-1400
	16	40.84	21.00	—	WM3614-ND	1.78	1.58	1.05	44300-1600
	18	43.84	24.00	—	WM3615-ND	2.00	1.77	1.18	44300-1800
	20	46.84	27.00	—	WM3616-ND	2.23	1.97	1.31	44300-2000
	22	49.84	30.00	—	WM3617-ND	2.44	2.16	1.44	44300-2200
	24	52.84	33.00	—	WM3618-ND	2.68	2.37	1.58	44300-2400

Micro-Fit 3.0™ Terminals

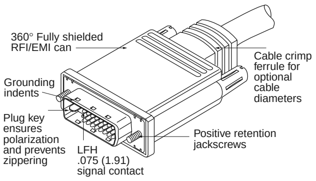




Description	Wire Size AWG	Insul. Dia. (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
Female-Tin	20-24	1.85	WM1837-ND WM1837CT-ND⋆ WM1837TR-ND†	.17 — 462.96/12,000	.11 .11	.09 .09	43030-0007 43030-0001 43030-0001
Female-Tin Female-30µ” Gold Female-30µ” Gold	26-30 20-24 26-30	1.27 1.85 1.27	WM1838-ND WM1839-ND WM1840-ND	.17 .18 .24	.11 .11 .15	.09 .09 .12	43030-0010 43030-0009 43030-0012
Male-Tin	20-24	1.85	WM1841-ND WM1841CT-ND⋆ WM1841TR-ND†	.17 — 462.96/12,000	.11 .11	.09 .09	43031-0007 43031-0001 43031-0001
Male-Tin Male-30µ” Gold Male-30µ” Gold	26-30 20-24 26-30	1.27 1.85 1.27	WM1842-ND WM1843-ND WM1844-ND	.17 .27 .27	.11 .17 .17	.09 .14 .14	43031-0010 43031-0009 43031-0012
Female-15µ” Gold	20-24	1.27	WM1125CT-ND⋆ WM1125TR-ND†	.11 509.40/12,000	.09	.08	43030-0002
Male-15µ” Gold	20-24	1.85	WM1127CT-ND⋆ WM1127TR-ND†	.12 555.30/12,000	.10	.08	43031-0002
Universal Crimp Tool (Molex)			WM9999-ND	38.36 each			63811-1000
Crimp Tool			WM9935-ND	180.33 each			63811-2800
Extraction Tool			WM9937-ND	18.17 each			11-03-0043

⋆ CT = Cut Tape. † TR = Tape and Reel.

MicroCross™ DVI (Digital Visual Interface) Connector System


360° Fully shielded RFI/EMI can
Cable crimp ferrule for optional cable diameters
Grounding indents
Plug key ensures polarization and prevents zippering
LFH .075 (1.91) signal contact
Positive retention jackscrews

The MicroCross DVI I/O Connectors from Molex are leading the way in support of the DDWG (Digital Display Working Group) DVI interface standard. MicroCross DVI has been chosen by the DDWG as the standard digital interface for connecting a host device and display device to support high-resolution video applications. Supporting one or two digital channels driven by TMDS (Transition Minimized Differential Signaling) and/or a high bandwidth analog interface, the MicroCross was chosen by the DDWG for its size, performance and cost. No other interface in the industry compares. The innovative crossing ground blade design and LFH™ (Low Force Helix) contact interface design provides the industry with a video interface design that will support over 1.65Gb/s per differential pair (for a total 9.9Gb/s over a dual link implementation) and 2.5GHz support for the analog interface. This provides the industry the performance head room it needs for future growth and development of video products.This innovative approach addresses the problem of an industry in transition. By providing a single high performance interface, precious board I/O space is saved and lower system costs are achieved. The interface provides added benefits of a high cycle life interface for mobile applications and the improved EMI performance needed for high speed links. The EMI performance is achieved through the 360° shielding of the MicroCross DVI cable and connector design. The MicroCross DVI connector system and the DVI standard are moving the graphics industry to the next level by providing unmatched electrical and mechanical performance while allowing for low cost implementation.

Fig. 1

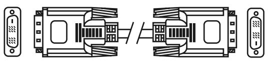


Fig. 2

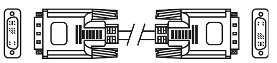


Fig. 3

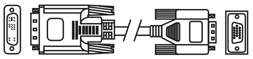


Fig. 4

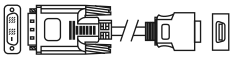


Fig. 5

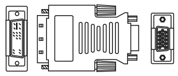


Fig. 6

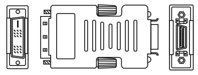


Fig. 7

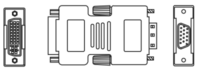


Fig. 8

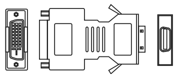


Fig. 9

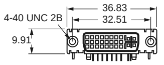


Fig. 10

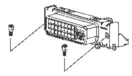
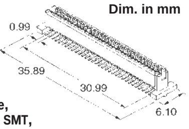


Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	DVI-Digital to DVI-Digital, Single Link	WM18509-ND	34.00	31.17	28.34	88741-8000
2	DVI-Analog to DVI-Analog	WM18510-ND	33.85	31.03	28.21	88741-8200
3	DVI-Analog to VGA	WM18511-ND	27.70	25.40	23.09	88741-8300
4	DVI-Digital to DFP	WM18512-ND	36.81	33.74	30.68	88741-8600
5	DVI-Analog Plug to VGA Receptacle	WM18513-ND	9.64	8.84	8.04	88741-8700
6	DVI-Digital Plug to DFP Receptacle	WM18514-ND	15.53	14.24	12.95	88741-8800
7	DVI-I-Analog/Digital Receptacle to VGA Plug	WM18515-ND	17.88	16.40	14.91	88741-9100
8	DVI-Digital Receptacle to DFP Plug	WM18516-ND	20.84	19.11	17.37	88741-9300
9	DVI-I R/Angle Receptacle, Gold Flash	WM5600-ND	4.73	4.34	3.95	74320-1004
10	DVI-D R/Angle Receptacle, Gold Flash	WM5601-ND	4.50	4.13	3.76	74320-4004

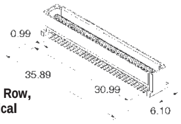
Mezzanine IEEE 1386 Connectors

Fig. 1



Receptacle, Dual Row, SMT, Vertical Stacking

Fig. 2



Plug, Dual Row, SMT, Vertical Stacking

Electrical: Voltage: 250V **Current:** 0.5A **Contact Resistance:** 30mΩ max. **Dielectric Withstanding Voltage:** 250V **Insulation Resistance:** 1000 MΩ min.

Mechanical: Contact Retention to Housing: 0.4kgf min. **Mating Force:** 60g max. per contact **Unmating Force:** 35g min. per contact **Durability:** 100 cycles

Physical: Housing: Glass-filled LCP, UL 94V-O **Contact:** Phosphor bronze **Plating:** 0.76µm (30µ”) Gold min. **Temperature:** -15°C to +85°C

Feature: Mated height on these parts are only 10 millimeters.

Fig.	Circuits	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	64	WM17201-ND	6.67	5.89	3.93	71439-0164
2	64	WM17200-ND	7.27	6.42	4.28	71436-2164

Mini-Fit Jr.™ Connectors

Positive Locking Hi-Density Power Connector

Current Carrying Capabilities: The Mini-Fit, Jr. can handle standard equipment I/O currents despite its small size. For example, the 2 circuit PCB connector can handle up to 9 amps at 250 volts.

Features: • UL recognized, CSA certified, and TUV licensed • Up to 9 amperes/circuit • 250 volt rating **Specifications:** • **Material:** Terminal: Brass; Plating: Tin; Housing: UL 94V-2 nylon 6/6 • **Voltage Current:** 250V (Vertical Header with Pegs: 600V) • **Contact Resistance:** 10mΩ max. • **Insulation Resistance:** 1,000MΩ min. • **Dielectric Strength:** 1,500V AC

Fig. 1 – Dual Row Receptacle (Female Contacts Sold Separately)

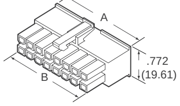


Fig. 2 – Dual Row Plug (Male Contacts Sold Separately)

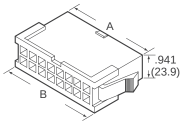


Fig. 3 – Single Row Receptacle (Female Contacts Sold Separately)

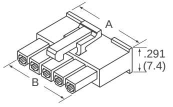


Fig. 4 – Single Row Plug (Male Contacts Sold Separately)

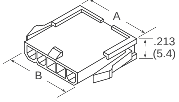


Fig. 5 – Vertical Header Assembly

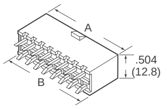


Fig. 6 – Right Angle Dual Row *NEW!*

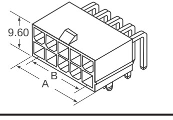


Fig. 7 – Right Angle Header

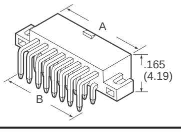


Fig. 8 – Vertical Header with Pegs

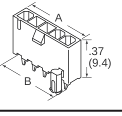


Fig. 9 – Right Angle Header with Pegs

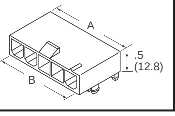


Fig. 10 – Strain Relief use with Fig. 1

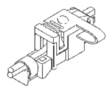


Fig.	Cir-cuits	Amps	Dim. – Inch (mm) A	Dim. – Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	2	9	.213 (5.40)	—	WM3700-ND	.42	.38	.25	39-01-2020
	4	8	.378 (9.60)	.165 (4.20)	WM3701-ND	.47	.42	.28	39-01-2040
	6	8	.543 (13.80)	.331 (8.40)	WM3702-ND	.56	.50	.33	39-01-2060
	8	7	.709 (18.00)	.496 (12.60)	WM3703-ND	.62	.55	.37	39-01-2080
	10	7	.874 (22.20)	.661 (16.80)	WM3704-ND	.72	.64	.43	39-01-2100
	12	6	1.039 (26.40)	.827 (21.00)	WM3705-ND	.80	.71	.47	39-01-2120
	14	6	1.205 (30.60)	.992 (25.20)	WM3706-ND	.95	.84	.56	39-01-2140
	16	6	1.370 (34.80)	1.158 (29.40)	WM3707-ND	.96	.86	.57	39-01-2160
	18	6	1.535 (39.00)	1.323 (33.60)	WM3708-ND	1.11	.98	.66	39-01-2180
	20	6	1.701 (43.20)	1.488 (37.80)	WM3709-ND	1.20	1.00	.71	39-01-2200
	22	6	1.866 (47.40)	1.654 (42.00)	WM3710-ND	1.98	1.76	1.17	39-01-2220
	24	6	2.031 (51.60)	1.819 (46.20)	WM3711-ND	1.32	1.17	.78	39-01-2240
2	2	9	.213 (5.40)	—	WM3600-ND	.50	.45	.30	39-01-2021
	4	8	.378 (9.60)	.165 (4.20)	WM3601-ND	.54	.49	.33	39-01-2041
	6	8	.543 (13.80)	.331 (8.40)	WM3602-ND	.58	.51	.34	39-01-2061
	8	7	.709 (18.00)	.496 (12.60)	WM3603-ND	.62	.55	.37	39-01-2081
	10	7	.874 (22.20)	.661 (16.80)	WM3604-ND	.72	.64	.43	39-01-2101
	12	6	1.039 (26.40)	.827 (21.00)	WM3605-ND	.73	.65	.44	39-01-2121
	14	6	1.205 (30.60)	.992 (25.20)	WM3606-ND	.98	.87	.58	39-01-2141
	16	6	1.370 (34.80)	1.158 (29.40)	WM3607-ND	1.27	1.12	.75	39-01-2161
3	3	9	.543 (13.80)	.331 (8.40)	WM18434-ND*§	.49	.43	.29	39-01-4030
	4	8	.709 (18.01)	.496 (12.60)	WM18435-ND§	.57	.51	.34	39-01-4040
	5	8	.874 (22.20)	.661 (16.80)	WM18436-ND§	.61	.54	.36	39-01-4050
4	3	9	.543 (13.80)	.331 (8.40)	WM18437-ND*†	.53	.47	.32	39-01-4032
	3	9	.543 (13.80)	.331 (8.40)	WM18439-ND*§	.53	.47	.31	39-01-4036
	4	8	.709 (18.01)	.496 (12.60)	WM18440-ND§	.56	.50	.34	39-01-4046
	5	8	.874 (22.20)	.661 (16.80)	WM18438-ND†	.59	.52	.35	39-01-4052
	5	8	.874 (22.20)	.661 (16.80)	WM18441-ND§	.59	.52	.35	39-01-4056
Tin Plated									
5	2	9	.210 (5.40)	—	WM3800-ND	.84	.75	.50	39-28-1023
	4	8	.380 (9.60)	.170 (4.20)	WM3801-ND	1.07	.95	.63	39-28-1043
	6	8	.540 (13.80)	.330 (8.40)	WM3802-ND	1.39	1.23	.82	39-28-1063
	8	7	.710 (18.00)	.500 (12.60)	WM3803-ND	1.58	1.40	.94	39-28-1083
	10	7	.870 (22.20)	.660 (16.80)	WM3804-ND	2.03	1.80	1.20	39-28-1103
	12	6	1.040 (26.40)	.825 (20.96)	WM3805-ND	1.97	1.74	1.16	39-28-1123
	14	6	1.200 (31.60)	.990 (25.20)	WM3806-ND	2.62	2.31	1.54	39-28-1143
	16	6	1.370 (34.80)	1.160 (29.40)	WM3807-ND	2.90	2.56	1.71	39-28-1163
	18	6	1.540 (39.00)	1.320 (33.60)	WM3808-ND	3.65	3.22	2.15	39-28-1183
	20	6	1.700 (43.20)	1.490 (37.80)	WM3809-ND	4.00	3.53	2.36	39-28-1203
	22	6	1.870 (47.40)	1.650 (42.00)	WM3810-ND	4.35	3.84	2.56	39-28-1223
	24	6	2.030 (51.60)	1.820 (46.20)	WM3811-ND	4.30	3.80	2.53	39-28-1243
30 Gold Plated									
5	2	9	.210 (5.40)	—	WM3820-ND	1.92	1.70	1.13	39-29-0023
	4	8	.380 (9.60)	.170 (4.20)	WM3821-ND	2.98	2.64	1.76	39-29-0043
	6	8	.540 (13.80)	.330 (8.40)	WM3822-ND	4.07	3.60	2.40	39-29-0063
	8	7	.710 (18.00)	.500 (12.60)	WM3823-ND	5.14	4.54	3.03	39-29-0083
	10	7	.870 (22.20)	.660 (16.80)	WM3824-ND	6.15	5.43	3.62	39-29-0103
	12	6	1.040 (26.40)	.830 (21.00)	WM3825-ND	7.16	6.33	4.22	39-29-0123
	14	6	1.200 (30.60)	.990 (25.20)	WM3826-ND	8.35	7.37	4.92	39-29-0143
	16	6	1.370 (34.80)	1.160 (29.40)	WM3827-ND	9.43	8.32	5.55	39-29-0163
	18	6	1.540 (39.00)	1.320 (33.60)	WM3828-ND	10.54	9.31	6.21	39-29-0183
	20	6	1.700 (43.20)	1.490 (37.80)	WM3829-ND	11.66	10.29	6.86	39-29-0203
	22	6	1.870 (47.40)	1.650 (42.00)	WM3830-ND	12.78	11.28	7.52	39-29-0223
	24	6	2.030 (51.60)	1.820 (46.20)	WM3831-ND	13.89	12.26	8.18	39-29-0243
NEW! Tin Plated NEW!									
6	2	9	.213 (5.40)	—	WM1351-ND	.83	.74	.49	39-30-1020
	4	8	.378 (9.60)	.165 (4.20)	WM1352-ND	1.21	1.07	.72	39-30-1040
	6	8	.543 (13.80)	.331 (8.40)	WM1353-ND	1.48	1.31	.88	39-30-1060
	8	7	.709 (18.00)	.496 (12.60)	WM1354-ND	1.78	1.58	1.05	39-30-1080
	10	7	.874 (22.20)	.661 (16.80)	WM1355-ND	2.12	1.87	1.25	39-30-1100
6	12	6	1.039 (26.40)	.827 (21.00)	WM1356-ND	2.65	2.34	1.56	39-30-1120
	14	6	1.205 (30.60)	.992 (25.20)	WM1357-ND	2.91	2.57	1.72	39-30-1140
	16	6	1.370 (34.80)	1.158 (29.40)	WM1358-ND	3.37	2.97	1.98	39-30-1160
	18	6	1.535 (39.00)	1.323 (33.60)	WM1359-ND	3.63	3.20	2.14	39-30-1180
	20	6	1.701 (43.20)	1.488 (37.80)	WM1360-ND	4.17	3.68	2.46	39-30-1200
	22	6	1.866 (47.40)	1.654 (42.00)	WM1361-ND	4.69	4.14	2.76	39-30-1220
	24	6	2.031 (51.60)	1.819 (46.20)	WM1362-ND	5.23	4.62	3.08	39-30-1240
NEW! 30 Gold Plated NEW!									
6	2	9	.213 (5.40)	—	WM1363-ND	1.79	1.58	1.06	39-30-1021
	4	8	.378 (9.60)	.165 (4.20)	WM1364-ND	2.28	2.01	1.34	39-30-1041
	6	8	.543 (13.80)	.331 (8.400	WM1365-ND	2.81	2.49	1.66	39-30-1061
	8	7	.709 (18.00)	.496 (12.60)	WM1366-ND	3.40	3.01	2.01	39-30-1081
	10	7	.874 (22.20)	.661 (16.80)	WM1367-ND	4.05	3.58	2.39	39-30-1101
	12	6	1.039 (26.40)	.827 (21.00)	WM1368-ND	4.75	4.20	2.80	39-30-1121
	14	6	1.205 (30.60)	.992 (25.20)	WM1369-ND	5.59	4.93	3.29	39-30-1141
	16	6	1.370 (34.80)	1.158 (29.40)	WM1370-ND	6.45	5.70	3.80	39-30-1161
	18	6	1.535 (39.00)	1.323 (33.60)	WM1371-ND	7.46	6.59	4.39	39-30-1181
	20	6	1.701 (43.20)	1.488 (37.800	WM1372-ND	8.57	7.57	5.05	39-30-1201
	22	6	1.866 (47.40)	1.654 (42.00)	WM1373-ND	9.67	8.53	5.69	39-30-1221
	24	6	2.031 (51.60)	1.819 (46.20)	WM1374-ND	10.81	9.54	6.36	39-30-1241
Tin Plated									
7	2	9	.606 (15.40)	—	WM3900-ND	.96	.85	.57	39-29-1028
	4	8	.772 (19.60)	.165 (4.20)	WM3901-ND	1.22	1.08	.72	39-29-1048
	6	8	.937 (23.80)	.331 (23.80)	WM3902-ND	1.49	1.32	.88	39-29-1068
	8	7	1.102 (28.00)	12.60 (.496)	WM3903-ND	1.80	1.59	1.06	39-29-1088
	10	7	1.268 (32.20)	.661 (16.80)	WM3904-ND	2.14	1.89	1.26	39-29-1108
	12	6	1.433 (36.40)	.827 (21.00	WM3905-ND	2.51	2.22	1.48	39-29-1128
	14	6	1.598 (40.60)	.992 (25.20)	WM3906-ND	2.94	2.60	1.73	39-29-1148
	16	6	1.764 (44.80)	1.158 (29.40)	WM3907-ND	3.40	3.00	2.00	39-29-1168
	18	6	1.929 (49.00)	1.323 (33.60)	WM3908-ND	3.94	3.48	2.32	39-29-1188
	20	6	2.094 (53.20)	1.488 (37.80)	WM3909-ND	4.51	3.98	2.66	39-29-1208
	22	6	2.260 (57.40)	1.654 (42.00)	WM3910-ND	5.13	4.53	3.02	39-29-1228
	24	6	2.425 (61.60)	1.819 (46.20)	WM3911-ND	5.67	5.01	3.34	39-29-1248
Gold Plated									
7	2	9	.606 (15.40)	—	WM3920-ND	1.95	1.72	1.15	39-29-5023
	4	8	.772 (19.60)	.165 (4.20)	WM3921-ND	2.38	2.10	1.40	39-29-5043
	6	8	.937 (23.80)	.331 (8.40)	WM3922-ND	3.29	2.91	1.94	39-29-5063
	8	7	1.102 (28.00)	.496 (12.60)	WM3923-ND	3.90	3.45	2.30	39-29-5083
	10	7	1.268 (32.20)	.661 (16.80)	WM3924-ND	4.58	4.05	2.70	39-29-5103
	12	6	1.433 (36.40)	.827 (21.00)	WM3925-ND	5.32	4.70	3.13	39-29-5123
	14	6	1.598 (40.60)	.992 (25.20)	WM3926-ND	6.18	5.46	3.64	39-29-5143
	16	6	1.764 (44.80)	1.158 (29.40)	WM3927-ND	7.09	6.26	4.18	39-29-5163
	18	6	1.929 (49.00)	1.323 (33.60)	WM3928-ND	8.15	7.20	4.80	39-29-5183
	20	6	2.094 (53.20)	1.488 (37.80)	WM3929-ND	9.30	8.21	5.48	39-29-5203
	22	6	2.260 (57.40)	1.654 (42.00)	WM3930-ND	10.44	9.22	6.15	39-29-5223
	24	6	2.425 (61.60)	1.819 (46.20)	WM3931-ND	11.64	10.27	6.85	39-29-5243
Tin Plated									
8	3	9	.543 (13.80)	.331 (8.40)	WM18442-ND	1.07	.95	.63	39-30-1039
	3	9	.543 (13.80)	.331 (8.40)	WM18443-ND	1.07	.95	.63	39-30-2035
	4	8	.709 (18.01)	.496 (12.60)	WM18444-ND	1.69	1.49	1.00	39-30-2045
	5	8	.874 (22.20)	.661 (16.80)	WM18445-ND	1.86	1.65	1.10	39-30-2056
9	3	9	.543 (13.80)	.331 (8.40)	WM18446-ND	1.27	1.13	.75	39-30-3035
	4	8	.709 (18.01)	.496 (12.60)	WM18447-ND	1.49	1.32	.88	39-30-3045
	5	8	.874 (22.20)	.661 (16.80)	WM18448-ND	1.71	1.52	1.01	39-30-3055
Strain Relief (use with Fig. 1)									
10	6	—	—	—	WM13702-ND	2.53	—	—	15-04-0296
	8	—	—	—	WM13703-ND	2.14	—	—	15-04-0343
	12	—	—	—	WM13705-ND	2.73	—	—	15-04-0345

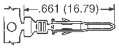
* 3-circuit receptacle designed for first-mate/last-break applications † Panel Mount § Free-Hanging

Mini-Fit Jr.™ Terminals

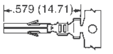
Contact Material/Plating

A: Tin-plated copper alloy over nickel
B: Gold-plated phosphor bronze over nickel
C: Gold-plated brass over nickel
D: Tin-plated brass over copper
E: Tin-plated phosphor bronze.

Male



Female



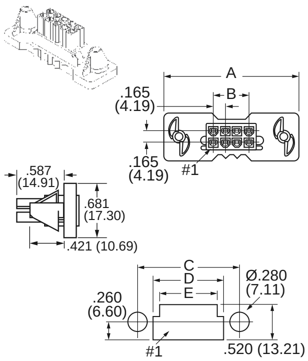
Description	Wire Size	Material/ Plating	Insulation Dia. Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Male Female	16	A	.071 - .122 (1.80 - 3.10)	WM1911-ND WM1913-ND	.34 .34	.28 .28	.20 .20	44478-3112 44476-3112
Male Female	16	B	.071 - .122 (1.80 - 3.10)	WM18520-ND WM18517-ND	.91 .91	.75 .75	.54 .54	39-00-0224 39-00-0186
Male Female	16	C	.071 - .122 (1.80 - 3.10)	WM5963-ND WM5961-ND	.67 .62	.56 .52	.40 .37	39-00-0096 39-00-0168
Male	18-24	D	.051 - .122 (1.30 - 3.10)	WM2500-ND WM2500CT-ND◊ WM2500TR-ND	— —	.07 — 113.60/4,000	.06 .06	39-00-0041 39-00-0040 39-00-0040
Female	18-24	D	.051 - .122 (1.30 - 3.10)	WM2501-ND WM2501CT-ND◊ WM2501TR-ND	— —	.09 — 148.40/4,000	.07 .07	39-00-0039 39-00-0038 39-00-0038
Male	18-24	B	.051 - .122 (1.30 - 3.10)	WM18521-ND	.91	.75	.54	39-00-0220
Female	18-24	B	.051 - .122 (1.30 - 3.10)	WM18518-ND WM18518CT-ND◊ WM18518TR-ND◊	.79 —	.65 — 1257.60/4,000	.47 .47	39-00-0182 39-00-0181 39-00-0181
Male Female	18-20	A	.051 - .122 (1.30 - 3.10)	WM1912-ND WM1914-ND	.34 .34	.28 .28	.20 .20	44478-1112 44476-1112
Female	18-24	B	.060 - .120 (1.52 - 3.05)	WM18523-ND	.98	.81	.58	44485-1212
Male	18-24	D C	.051 - .122 (1.30 - 3.10)	WM3940-ND* WM6049-ND	.29 .61	.24 .51	.17 .36	30490-2012 39-00-0054
Female Male	18-24	C B	.051 - .122 (1.30 - 3.10)	WM5959-ND WM3941-ND*	.62 .94	.51 .78	.37 .56	39-00-0164 30490-1012
Female	18-24	C	.051 - .122 (1.30 - 3.10)	WM1137CT-ND◊ WM1137TR-ND◊	—	.40 708.75/4,000	.33	39-00-0055
Female	18-24	E	.051 - .122 (1.30 - 3.10)	WM1138CT-ND◊ WM1138TR-ND◊	—	.14 246.34/4,000	.12	39-00-0059
Female	18-24	B	.051 - .122 (1.30 - 3.10)	WM1139CT-ND◊ WM1139TR-ND◊	—	.36 623.63/4,000	.29	39-00-0153
Male Female	22-28	D	.035 - .071 (.90 - 1.80)	WM2502-ND WM2503-ND	— —	.07 .07	.06 .05	39-00-0049 39-00-0047
Male Female	22-28	B	.035 - .071 (.90 - 1.80)	WM18522-ND WM18519-ND	.87 .79	.72 .65	.52 .47	39-00-0222 39-00-0184
Male Female	22-28	C	.035 - .071 (.90 - 1.80)	WM5962-ND WM5960-ND	.67 .62	.56 .51	.40 .37	39-00-0088 39-00-0166
Universal Crimp Tool (Molex)				WM9999-ND	38.36	—	—	63811-1000
Mini-Fit Jr. Crimp Tool, 16 AWG				WM9964-ND	169.72	—	—	11-01-0199
Mini-Fit Jr. Crimp Tool, 18-24 AWG				WM9912-ND	180.33	—	—	11-01-0197
Mini-Fit Jr. Crimp Tool, 22-28 AWG				WM9913-ND	180.41	—	—	11-01-0198
Extraction Tool				WM9918-ND	18.37	—	—	11-03-0044

* Grounding pin ◊CT = Cut Tape; TR = Tape and Reel

molex Waldom ELECTRONICS

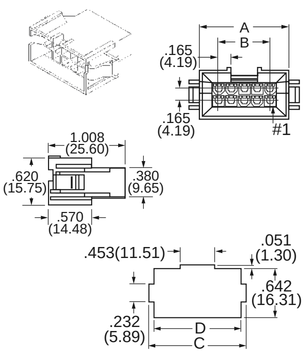
Mini-Fit BMI™ Connectors

Fig. 1 - Receptacle with Panel Mount Ears



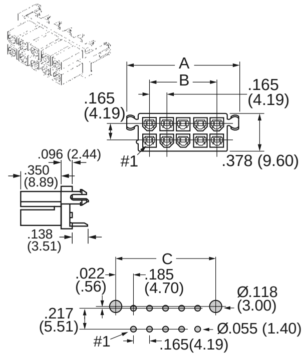
PCB Thickness: .050 (1.27)
PCB Cutout

Fig. 2 - Plug with Panel Mount Ears



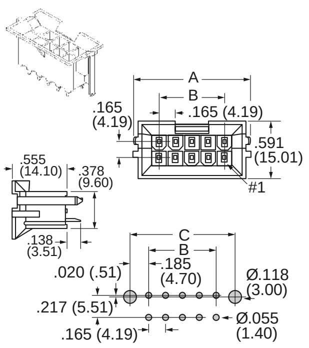
PCB Thickness: .063 (1.60)
PCB Cutout

Fig. 3 - Vertical Receptacle Header



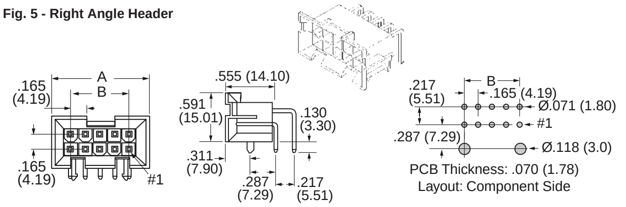
PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 4 - Vertical Header



PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 5 - Right Angle Header



PCB Thickness: .070 (1.78)
Layout: Component Side

Features and Benefits: • Blind mating • Will mate with Mini-Fit, Jr. • Fully isolated terminals to protect contacts from damage • Uses standard Mini-Fit series terminals • UL File No.: E29179 • CSA File No.: LR19980 • TUV License No.: R75142

Specifications: • **Voltage:** 600V • **Current:** 9.0A • **Contact Resistance:** 10mΩ min. • **Dielectric Withstanding Voltage:** 1500V • **Insulation Resistance:** 1000 mΩ min.

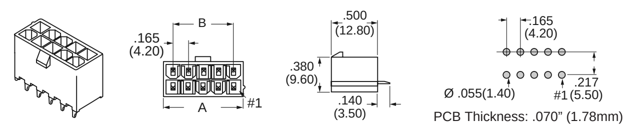
Physical: • **Housing:** 6/6 nylon, UL 94V-2 • **Temperature:** -40°C to +105°C

Fig.	Cir-cuits	Dimensions – Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Receptacle with Panel Mount Ears											
1	4	1.583 (40.21)	.165 (4.19)	1.150 (29.21)	.693 (17.60)	.508 (12.90)	WM17500-ND	.84	.75	.50	15-06-0040
	6	1.748 (44.40)	.331 (8.41)	1.315 (33.40)	.858 (21.79)	.673 (17.09)	WM17501-ND	.82	.73	.49	15-06-0060
	10	2.078 (52.78)	.661 (16.79)	1.645 (41.78)	1.189 (30.20)	1.004 (25.50)	WM17502-ND	1.24	1.10	.74	15-06-0100
	14	2.409 (61.19)	.992 (25.20)	1.976 (50.19)	1.520 (38.61)	1.335 (33.91)	WM17503-ND	1.66	1.47	.98	15-06-0140
Plug with Panel Mount Ears											
2	4	.622 (15.80)	.165 (4.19)	.779 (19.79)	.642 (16.31)	—	WM17700-ND	.66	.59	.40	15-06-0045
	6	.787 (19.99)	.331 (8.41)	.945 (20.50)	.807 (20.50)	—	WM17701-ND	.75	.67	.45	15-06-0065
	10	1.118 (52.78)	.661 (16.79)	1.276 (28.91)	1.138 (28.91)	—	WM17702-ND	.88	.78	.52	15-06-0105
	14	1.449 (36.80)	.992 (25.20)	1.606 (38.61)	1.469 (37.31)	—	WM17703-ND	1.20	1.06	.71	15-06-0145
Vertical Receptacle Header											
3	4	.615 (15.62)	.165 (4.19)	.535 (13.59)	—	—	WM17600-ND	1.94	1.72	1.15	15-24-7040
	6	.780 (19.81)	.331 (8.41)	.701 (17.81)	—	—	WM17601-ND	2.30	2.03	1.36	15-24-7060
	10	1.111 (28.22)	.661 (16.79)	1.031 (26.19)	—	—	WM17602-ND	3.17	2.80	1.87	15-24-7100
	14	1.442 (36.63)	.992 (25.20)	1.362 (34.59)	—	—	WM17603-ND	3.66	3.24	2.16	15-24-7140
Vertical Header											
4	4	.685 (17.40)	.170 (4.32)	.535 (13.59)	—	—	WM17900-ND	1.78	1.58	1.05	15-24-6046
	10	1.181 (30.00)	.660 (16.76)	1.031 (26.19)	—	—	WM17901-ND	2.81	2.49	1.66	15-24-6106

Fig.	Cir-cuits	Dimensions – Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Vertical Header											
4	14	1.512 (38.40)	.990 (25.15)	1.362 (34.59)	—	—	WM17902-ND	3.62	3.20	2.13	15-24-6146
Right Angle Header											
5	4	.165 (4.19)	.590 (14.99)	—	—	—	WM17800-ND	1.72	1.52	1.01	15-24-6040
	6	.760 (19.30)	.331 (8.41)	—	—	—	WM17801-ND	2.40	2.12	1.41	15-24-6060
	10	1.090 (27.69)	.661 (16.79)	—	—	—	WM17802-ND	3.38	2.99	1.99	15-24-6100
	14	1.420 (36.07)	.992 (25.20)	—	—	—	WM17803-ND	3.89	3.43	2.29	15-24-6140

Mini-Fit, HCS™ Connectors

Dual Row, Vertical, Without Pegs



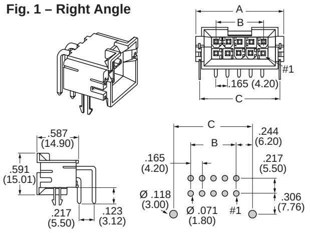
PCB Thickness: .070" (1.78mm)

Cir-cuits	Amps	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	12	.210 (5.40)	—	WM18449-ND	1.17	1.04	.69	44472-0254
4	11	.380 (9.60)	.170 (4.20)	WM18450-ND	1.76	1.56	1.04	44472-0454
6	11	.540 (13.80)	.330 (8.40)	WM18451-ND	2.35	2.08	1.39	44472-0654
8	10	.710 (18.00)	.500 (12.60)	WM18452-ND	3.34	2.95	1.97	44472-0854
10	10	.870 (22.20)	.660 (16.80)	WM18453-ND	3.52	3.11	2.07	44472-1054
12	9	1.040 (26.40)	.830 (21.00)	WM18454-ND	3.82	3.37	2.25	44472-1254
14	9	1.200 (30.60)	.990 (25.20)	WM18455-ND	4.69	4.15	2.77	44472-1454
16	9	1.370 (34.80)	1.160 (29.40)	WM18456-ND	5.27	4.66	3.11	44472-1654

Mini-Fit, SMC™ Connectors

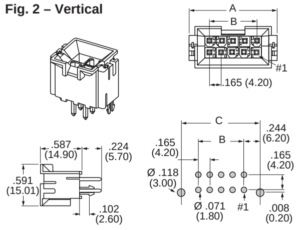
Surface Mount Compatible Headers, Dual Row

Fig. 1 – Right Angle



PCB Thickness: .063" (1.60mm)

Fig. 2 – Vertical



PCB Thickness: .063" (1.60mm)

Fig.	Cir-cuits	Dim. – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	4	.740 (18.81)	.165 (4.20)	.653 (16.60)	WM18457-ND	3.85	3.41	2.27	43810-0001
	6	.906 (23.01)	.331 (8.40)	.819 (20.80)	WM18458-ND	4.83	4.26	2.84	43810-0002
	10	1.237 (31.41)	.661 (16.80)	1.150 (29.20)	WM18459-ND	6.88	6.07	4.05	43810-0004
2	4	.740 (18.81)	.165 (4.20)	.653 (16.60)	WM18460-ND	3.48	3.07	2.05	44068-0001
	6	.906 (23.01)	.331 (8.40)	.819 (20.80)	WM18461-ND	4.36	3.85	2.57	44068-0002
	10	1.237 (31.41)	.661 (16.80)	1.150 (29.20)	WM18462-ND	6.20	5.48	3.65	44068-0004

5.08mm Disk Drive Power Connection System

Fig. 1 - IDT Plug

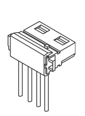


Fig. 2 - Receptacle Housing

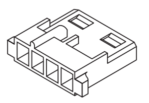


Fig. 3 - Vertical Header

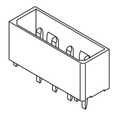


Fig.	Cir-Cuit	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	4	Connector Plug w/Strain Relief IDT	WM6981-ND	1.77	1.57	1.05	15-24-3030
2	4	Receptacle Housing	WM6982-ND	.80	.71	.47	15-24-4048
3	4	Vertical Header	WM6986-ND	2.05	1.82	1.21	15-24-4157

Power Connection Terminals

Description	Wire Size	Max. Insulation Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Female	AWG 14-20	.133 (3.39)	WM6983-ND	.27	.24	.16	02-08-1202
Male	AWG 14-20	.133 (3.39)	WM6984-ND	.27	.24	.16	02-08-1235
Universal Crimp Tool (Molex)			WM9999-ND	38.36 each			63811-1000

Mini-Fit, Sr.™ Connectors (50 Amps)

Features: • High current (50 amp) • Fully polarized • Positive locks • Low engagement force • Wire-to-wire, wire-to-board. **Electrical:** *Voltage:* 600V *Current:* 50A max. **Physical:** *Housing:* Polyester *Contact:* Copper alloy *Plating:* Tin/lead over nickel *Temperature:* -40°C to +105°C **Approvals:** UL File No.: E29179, CSA File No.: LR19980, TUV License No.: R9751144

Fig. 1

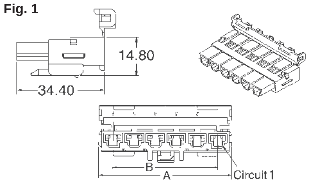


Fig. 2

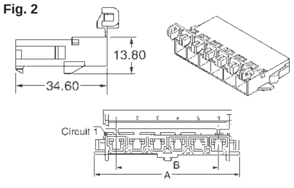


Fig. 3

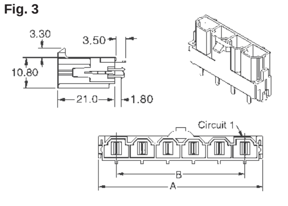


Fig. 4

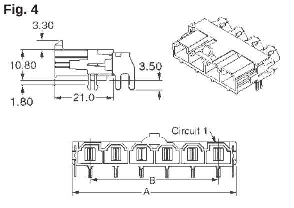


Fig.	Circuits	Dimensions (mm) A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Mini-Fit, Sr. Receptacle Housing									
1	2	23.50	10.00	Tin	WM1927-ND	1.65	1.46	.98	42816-0212
	3	33.50	20.00	Tin	WM1928-ND	1.85	1.64	1.09	42816-0312
	4	43.50	30.00	Tin	WM1929-ND	2.04	1.81	1.21	42816-0412
	5	53.50	40.00	Tin	WM1930-ND	2.23	1.98	1.32	42816-0512
	6	63.50	50.00	Tin	WM1931-ND	2.45	2.17	1.45	42816-0612
Mini-Fit, Sr. Plug Housing — Panel Mount									
2	2	31.30	10.00	Tin	WM1932-ND	1.67	1.48	.99	42818-0212
	3	41.30	20.00	Tin	WM1933-ND	1.84	1.63	1.09	42818-0312
	4	51.30	30.00	Tin	WM1934-ND	2.04	1.81	1.21	42818-0412
	5	61.30	40.00	Tin	WM1935-ND	2.23	1.98	1.32	42818-0512
	6	71.30	50.00	Tin	WM1936-ND	2.42	2.14	1.43	42818-0612
Mini-Fit, Sr. Header — Vertical with Metal Clip Mount, SMC									
3	2	23.82	10.00	Tin	WM1937-ND	3.56	3.15	2.10	42819-2212
	3	33.82	20.00	Tin	WM1938-ND	4.74	4.18	2.79	42819-3212
	4	43.82	30.00	Tin	WM1939-ND	5.43	4.80	3.20	42819-4212
	5	53.82	40.00	Tin	WM1940-ND	6.15	5.43	3.62	42819-5212
	6	63.82	50.00	Tin	WM1941-ND	7.26	6.41	4.28	42819-6212
Mini-Fit, Sr. Header — Right Angle with Metal Clip Mount, SMC									
4	2	23.82	10.00	Tin	WM1942-ND	4.85	4.28	2.86	42820-2212
	3	33.82	20.00	Tin	WM1943-ND	6.55	5.79	3.86	42820-3212
	4	43.82	30.00	Tin	WM1944-ND	7.89	6.96	4.64	42820-4212
	5	53.82	40.00	Tin	WM1945-ND	9.26	8.18	5.45	42820-5212
	6	63.82	50.00	Tin	WM1946-ND	10.81	9.55	6.37	42820-6212

Mini-Fit, Sr.™ Terminals

Fig. 1

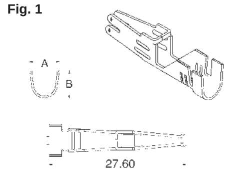


Fig. 2

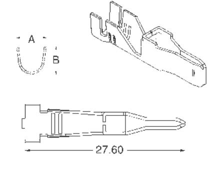


Fig.	Wire Size AWG	Dim. (mm) A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Mini-Fit, Sr. Terminal — Female									
1	8	6.00	5.50	Tin Gold	WM1915-ND WM1949-ND	.71 1.17	.63 1.04	.42 .69	42815-0031 42815-0032
	10-12	5.90	6.60	Tin Gold	WM1947-ND WM1951-ND	.71 1.17	.63 1.04	.42 .69	42815-0011 42815-0012
Mini-Fit, Sr. Terminal — Male									
2	8	6.00	5.50	Tin Gold	WM1916-ND WM1950-ND	.71 1.17	.63 1.04	.42 .69	42817-0031 42817-0032
	10-12	5.90	6.60	Tin Gold	WM1948-ND WM1952-ND	.71 1.17	.63 1.04	.42 .69	42817-0011 42817-0012
Crimp Tool, 8 AWG					WM9960-ND	369.09	—	—	63811-1500
Crimp Tool, 10-12 AWG					WM9962-ND	369.09	—	—	63811-1600
Extraction Tool					WM9961-ND	72.93	—	—	63813-0400

7.50 Pitch Sabre™ Connectors

Features and Benefits: • Patented new integral Terminal Position Assurance (TPA) on mated male and female terminal • Virtually eliminates terminal backout • Wire-to-wire and wire-to-board connector system • Polarized housing assures proper mating • Terminals are fully isolated in housing • Positive latch reduces accidental disengagement from plug **Electrical Specifications:** • **Voltage:** 1000V • **Current:** 18A • **Contact Resistance:** 10mΩ max. • **Dielectric Withstanding Voltage:** 5000V AC, 1 minute • **Insulation Resistance:** 1000 mΩ min. **Mechanical:** • **Contact Insertion Force:** 2 lb. max. • **Contact Retention to Housing:** 20 lb. min. • **Wire Pull-Out Force:** 20 lb. min. • **Mating Force:** 3 lb. max. • **Unmating Force:** 1 lb. min. • **Normal Force:** 3 lb. nominal • **Durability:** 25 cycles **Physical:** • **Housing:** Nylon, 94V-0 • **Temperature:** -40°C to +75°C • **Approvals:** UL File No.: E29179 and UI1950; CSA File No.: LR19980

Fig. 1 – Receptacle

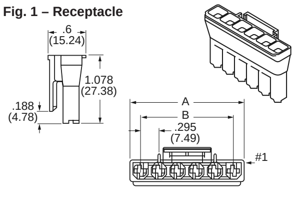


Fig. 2 – Wire-to-Wire Plug

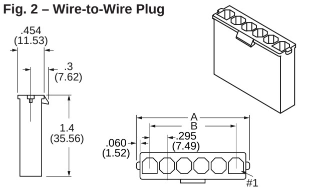
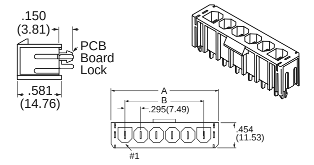
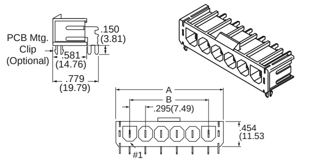


Fig. 3 – Vertical Wire-to-Board Header



.002" (.062mm) PCB thickness on headers with board lock

Fig. 4 – Right Angle Wire-to-Board Header

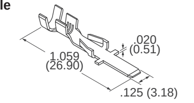


.002" (.062mm) PCB thickness on headers with board lock

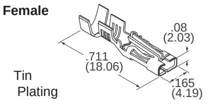
Fig.	Cir-cuits	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Single Row Receptacle								
1	2	.623 (15.82)	.295 (7.49)	WM18463-ND	.93	.82	.55	44441-2002
	3	.918 (23.32)	.590 (14.99)	WM18464-ND	1.08	.96	.64	44441-2003
	4	1.213 (30.81)	.885 (22.48)	WM18465-ND	1.23	1.09	.73	44441-2004
	5	1.508 (38.30)	1.180 (29.97)	WM18466-ND	1.44	1.28	.85	44441-2005
	6	1.803 (45.80)	1.475 (37.47)	WM18467-ND	1.63	1.44	.96	44441-2006
Single Row Plug								
2	2	.745 (18.92)	.295 (7.49)	WM18468-ND	.93	.82	.55	43680-2002
	3	1.040 (26.42)	.590 (14.99)	WM18469-ND	1.09	.96	.64	43680-2003
	4	1.335 (33.91)	.885 (22.48)	WM18470-ND	1.24	1.10	.74	43680-2004
	5	1.630 (41.40)	1.180 (29.97)	WM18471-ND	1.44	1.28	.85	43680-2005
	6	1.925 (48.90)	1.475 (37.47)	WM18472-ND	1.62	1.44	.96	43680-2006
Vertical Header, SMC — Without Board Lock								
3	2	.830 (21.08)	.295 (7.49)	WM18473-ND	1.81	1.60	1.07	43160-0102
	3	1.125 (28.58)	.590 (14.99)	WM18474-ND	2.49	2.20	1.47	43160-0103
	4	1.420 (36.07)	.885 (22.48)	WM18475-ND	2.61	2.31	1.54	43160-0104
	5	1.715 (43.56)	1.180 (29.97)	WM18476-ND	3.02	2.67	1.78	43160-0105
	6	2.010 (51.05)	1.475 (37.47)	WM18477-ND	3.41	3.01	2.01	43160-0106
Vertical Header, SMC — With Board Lock								
3	2	.830 (21.08)	.295 (7.49)	WM18478-ND	2.01	1.78	1.19	43160-2102
	3	1.125 (28.58)	.590 (14.99)	WM18479-ND	2.43	2.15	1.43	43160-2103
	4	1.420 (36.07)	.885 (22.48)	WM18480-ND	2.94	2.60	1.73	43160-2104
	5	1.715 (43.56)	1.180 (29.97)	WM18481-ND	3.37	2.98	1.99	43160-2105
	6	2.010 (51.05)	1.475 (37.47)	WM18482-ND	3.75	3.32	2.21	43160-2106
Right Angle Header, SMC — Without Board Lock								
4	2	.830 (21.08)	.295 (7.49)	WM18483-ND	2.00	1.77	1.18	43160-1102
	3	1.125 (28.58)	.590 (14.99)	WM18484-ND	2.43	2.15	1.43	43160-1103
	4	1.420 (36.07)	.885 (22.48)	WM18485-ND	2.85	2.52	1.68	43160-1104
	5	1.715 (43.56)	1.180 (29.97)	WM18486-ND	3.29	2.90	1.94	43160-1105
	6	2.010 (51.05)	1.475 (37.47)	WM18487-ND	3.72	3.29	2.19	43160-1106
Right Angle Header, SMC — With Board Lock								
4	2	.830 (21.08)	.295 (7.49)	WM18488-ND	2.27	2.01	1.34	43160-3102
	3	1.125 (28.58)	.590 (14.99)	WM18489-ND	2.72	2.40	1.60	43160-3103
	4	1.420 (36.07)	.885 (22.48)	WM18490-ND	3.18	2.81	1.88	43160-3104
	5	1.715 (43.56)	1.180 (29.97)	WM18491-ND	3.59	3.17	2.12	43160-3105
	6	2.010 (51.05)	1.475 (37.47)	WM18492-ND	4.08	3.60	2.40	43160-3106

7.50 Pitch Sabre™ Terminals

Male



Female



Desc.	Wire Size (AWG)	Max. Insul. Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Female Male	14-18	.130 (3.30)	WM18493-ND WM18495-ND	.15 .18	.14 .17	.09 .11	43375-0001 43178-1002
Female Male	14-18	.180 (4.57)	WM18494-ND WM18496-ND	.15 .18	.14 .17	.09 .11	43375-1001 43178-2002

Sabre™ Tools

Description	Digi-Key Part No.	Price Each	Molex Part No.
Crimp Tool for Power Connectors - Female	WM9907-ND	169.06	63811-0400
Crimp Tool for Power Connectors - Male	WM9908-ND	193.20	63811-0600
Extraction Tool - Female	WM9909-ND	25.55	63813-0500
Extraction Tool - Male	WM9910-ND	177.42	63813-0800

Firewire 1394 I/O Connectors

Headers are offered in high temperature plastic for true SMT processing. Full metal shielding design supports ESD protection. Rugged gold plated leaf contacts withstands up to 1500 cycles.

Fig.	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	WM17300-ND	9.15	8.08	5.39	53462-0611
2	WM17301-ND	9.15	8.08	5.39	53460-0611

Fig. 1
Right Angle Flat Header

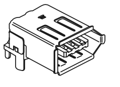
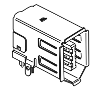


Fig. 2
Right Angle Upright Header

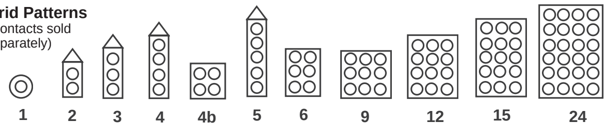


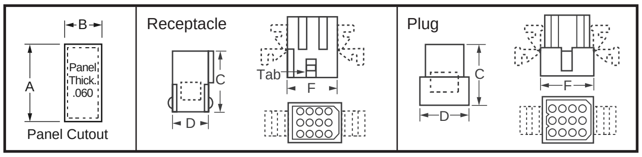
Power Connectors

.062” Diameter Connectors

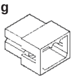
• UL File Number E-29179; CSA File Number LR-19980 • Up to 5 amperes per circuit* • 250 Volt rating*
• Friction lock • Standard color is natural (*Ratings based on fully loaded housings.)

Grid Patterns
(Contacts sold separately)

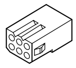




Plug



Receptacle



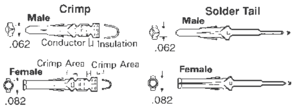
Cable Connector Designer Kit
WM9800-ND — Contains all parts needed to assemble male and female connectors from single-circuit to 36-circuit designs (250V and up to 5A/circuit); totals 56 connectors. All have pin terminal size .062" dia. with crimping tool, pin terminal ejector and case **$36.77**

Grid. Space	Circ. (a)	Type	Max. Amp	Max. V.	A	B	C	D	F	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
.062” Diameter Connector Housings — with Detent Only, Free Hanging														
.145"	1	Plug	5	250	—	—	.750	—	—	WM1201-ND	.26	2.15	15.34	03-06-2011
		Receptacle	5	250	—	—	.780	—	.183	WM1200-ND	.28	2.28	16.30	03-06-1011
	2	Plug	5	250	.609	.318	.780	.300	.440	WM1220-ND	.28	2.32	16.56	03-06-2023
		Receptacle	5	250	.505	.265	.810	.192	.340	WM1230-ND	.36	2.94	20.99	03-06-1023
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1221-ND	.42	3.42	24.46	03-06-2032
		Receptacle	5	250	.650	.265	.780	.192	.484	WM1231-ND	.43	3.56	25.41	03-06-1032
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1222-ND	.54	4.49	32.04	03-06-2042
		Receptacle	5	250	.785	.260	.780	.192	.630	WM1232-ND	.54	4.49	32.04	03-06-1042
	4 (b)	Plug	5	250	.615	.465	.750	.442	.442	WM1223-ND	.54	4.49	32.04	03-06-2044
		Receptacle	5	250	.506	.400	.750	.339	.339	WM1233-ND	.54	4.49	32.04	03-06-1044
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1224-ND	.55	4.52	32.25	03-06-2055
		Receptacle	5	250	.940	.265	.780	.192	.775	WM1234-ND	.67	5.50	39.30	03-06-1056
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1225-ND	.68	5.61	40.04	03-06-2061
		Receptacle	5	250	.552	.505	.780	.494	.344	WM1235-ND	.68	5.61	40.04	03-06-1062
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1226-ND	.69	5.72	40.84	03-06-2092
		Receptacle	5	250	.650	.552	.780	.494	.489	WM1236-ND	.69	5.72	40.84	03-06-1092
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1227-ND	.71	5.82	41.58	03-06-2122
		Receptacle	5	250	.795	.563	.780	.494	.634	WM1237-ND	.71	5.82	41.58	03-06-1122
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1228-ND	.84	6.88	49.16	03-06-2152
		Receptacle	5	250	.934	.563	.780	.487	.776	WM1238-ND	.84	6.88	49.16	03-06-1152
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1229-ND	1.97	16.24	115.99	03-06-2242
.062” Diameter Connector Housings – with Mounting Ears & Detent, Panel Mount														
.145"	2	Plug	5	250	.609	.318	.780	.300	.440	WM1203-ND	.35	2.89	20.64	03-06-2024
		Receptacle	5	250	.505	.265	.810	.192	.340	WM1202-ND	.35	2.89	20.64	03-06-1022
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1205-ND	.42	3.42	24.46	03-06-2033
		Receptacle	5	250	.650	.265	.780	.192	.484	WM1204-ND	.43	3.56	25.41	03-06-1038
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1207-ND	.54	4.49	32.04	03-06-2041
		Receptacle	5	250	.785	.260	.780	.192	.630	WM1206-ND	.56	4.62	32.99	03-06-1041
	4 (b)	Plug	5	250	.615	.465	.750	.442	.442	WM1209-ND	.54	4.49	32.04	03-06-2043
		Receptacle	5	250	.506	.400	.750	.339	.339	WM1208-ND	.54	4.49	32.04	03-06-1043
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1240-ND	.67	5.50	39.30	03-06-2054
		Receptacle	5	250	.940	.265	.780	.192	.775	WM1241-ND	.67	5.50	39.30	03-06-1055
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1211-ND	.68	5.61	40.04	03-06-2062
		Receptacle	5	250	.552	.505	.780	.494	.344	WM1210-ND	.68	5.61	40.04	03-06-1061
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1213-ND	.69	5.72	40.84	03-06-2091
		Receptacle	5	250	.650	.552	.780	.494	.489	WM1212-ND	.69	5.72	40.84	03-06-1091
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1215-ND	.71	5.82	41.58	03-06-2121
		Receptacle	5	250	.795	.563	.780	.494	.634	WM1214-ND	.71	5.82	41.58	03-06-1121
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1217-ND	.84	6.88	49.16	03-06-2151
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1219-ND	1.97	16.24	115.99	03-06-2241
		Receptacle	5	250	1.079	.715	.750	.634	.918	WM1218-ND	1.91	15.70	112.18	03-06-1241

(a) Electrical ratings are per circuit. (b) 4 circuits in square grid pattern.

.062” Terminals

Use with .062" housings. **Temperature Range:** -40°C to 105°C • .008" stock 70/30 brass. **High Volt. Test:** Withstands 1500 volts RMS for 60 seconds. **Current Rating:** Amperage rating 5 amps. **Storage Temp. Range:** -40°C to 125°C. **Plating:** 200-300µ Hot-Tin Dip tin plating.



Description	Wire Size	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
Male, Crimp Type	18-24	.060/.120	WM1000-ND	.73	5.85	24.38	02-06-2103
Female, Crimp Type	18-24	.060/.120	WM1001-ND	.77	6.17	25.70	02-06-1103
Male, Crimp Type	24-30	.040/.090	WM1002-ND	.73	5.85	24.38	02-06-2132
Female, Crimp Type	24-30	.040/.090	WM1003-ND	.73	5.85	24.38	02-06-1132
Male, PCB Solder-Tail	—	—	WM1004-ND	1.46	11.70	48.76	02-06-8103
Female, PCB Solder-Tail	—	—	WM1005-ND	1.46	11.70	48.76	02-06-7103
Male, Crimp Type	18-24	.060/.120	WM1006-ND*	5.40	43.19	179.94	02-06-6103
Male, Crimp Type	24-30	.040/.090	WM1007-ND*	5.40	43.19	179.94	02-06-6135
Female, Crimp Type	18-24	.060/.120	WM1008-ND*	5.40	43.19	179.94	02-06-5103
Female, Crimp Type	24-30	.040/.090	WM1009-ND*	5.40	43.19	179.94	02-06-5135
Male, PCB	—	—	WM1010-ND*	6.65	53.23	221.80	02-06-6122
Female, PCB	—	—	WM1011-ND*	6.65	53.23	221.80	02-06-7104
Hand Tool (Waldom)	—	—	WM9900-ND		13.22 each		W-HT-1921
Universal Crimp Tool (Molex)	—	—	WM9999-ND		38.36 each		63811-1000
Production Tool (Molex)	24-30	—	WM9915-ND		180.33 each		11-01-0185
Production Tool (Molex)	—	—	WM9922-ND		180.35 each		11-01-0008
Extraction Tool (Molex)	—	—	WM9929-ND		18.17 each		11-03-0002

*15µ Select Gold Finish

.084” Power Connectors

Features: • Intermateable, intermountable, and interchangeable with industry standard versions • Cross tested to assure industry compatibility • UL recognized, CSA certified • Up to 13.5 amperes per circuit (30°C rise)* • 600 Volt rating* • Positive locks • Fully isolated contacts • Circuit I.D. grooves to reduce assembly errors • Anti-stress positioning tabs to reduce breakage

Grid Pattern

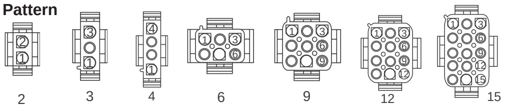


Fig. 1 - Plug

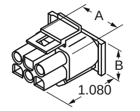


Fig. 2 - Cap

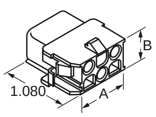
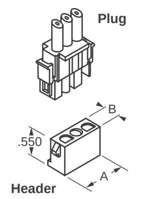
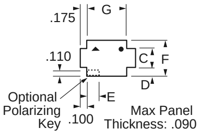


Fig. 3 - Vertical Header

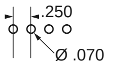


Cap Panel Cutout

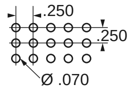


▲ - Circuit #1 location when using polarizing key option with 2, 3, and 4 circuit housing.
● - Circuit #1 location when using polarizing key option with 6, 9, 12 and 15 circuit housing.

2, 3, & 4 Position Vertical Header P.C. Board Layout Dim.



6, 9, 12, & 15 Position Header Assemblies

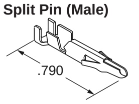


Pos.	Des.	Amperes/ Circuit (Max.)*	Voltage Rating (Max.)*	A	B	C††	D	E	F	G	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
Fig. 1 – Plug																
2	Plug	13.5	600	.300	.550	—	—	—	—	—	WM1242-ND	.54	4.75	31.70	126.78	50-84-1020
3	Plug	13.5	600	.300	.800	—	—	—	—	—	WM1244-ND	.55	4.87	32.44	129.74	50-84-1030
4	Plug	13.5	600	.300	1.050	—	—	—	—	—	WM1246-ND	.58	5.15	34.32	137.27	50-84-1040
6	Plug	11.0	600	.800	.550	—	—	—	—	—	WM1248-ND	.68	6.01	40.04	160.17	50-84-1060
9	Plug	11.0	600	.800	.800	—	—	—	—	—	WM1250-ND	.80	7.03	46.85	187.41	50-84-1090
12	Plug	—	600	.800	1.050	—	—	—	—	—	WM1252-ND	1.32	11.64	77.59	310.37	50-84-1120
15	Plug	—	600	.800	1.300	—	—	—	—	—	WM1254-ND	1.38	12.15	81.01	324.04	50-84-1150
Fig. 2 – Cap																
2	Cap	13.5	600	.300	.550	.340	.095	.250	.530	.565	WM1243-ND	.61	5.37	35.83	143.31	50-84-2020
3	Cap	13.5	600	.300	.800	.340	.095	.250	.530	.815	WM1245-ND	.60	5.26	35.09	140.34	50-84-2030
4	Cap	13.5	600	.300	1.050	.340	.095	.250	.530	1.065	WM1247-ND	.99	8.71	58.06	232.25	50-84-2040
6	Cap	11.0	600	.800	.550	.340	.275	.250	1.030	.565	WM1249-ND	1.09	9.62	64.16	256.63	50-84-2060
9	Cap	11.0	600	.800	.800	.480	.275	.250	1.030	.815	WM1251-ND	.89	7.82	52.15	208.61	50-84-2090
12	Cap	—	600	.800	1.050	.480	.275	.350	1.030	1.065	WM1253-ND	1.51	13.34	88.96	355.84	50-84-2120
15	Cap	—	600	.800	1.300	.480	.275	.350	1.030	1.315	WM1255-ND	1.61	14.20	94.69	378.74	50-84-2150
Fig. 3 – Vertical Header																
2	Male	—	—	.300	.550	—	—	—	—	—	WM1256-ND	.94	8.28	55.23	220.90	10-84-4020
2	Female	—	—	.300	.550	—	—	—	—	—	WM1263-ND	.81	7.12	47.49	189.95	10-84-4022
3	Male	—	—	.300	.800	—	—	—	—	—	WM1257-ND	1.07	9.42	62.78	251.11	10-84-4030
3	Female	—	—	.300	.800	—	—	—	—	—	WM1264-ND	1.03	9.08	60.53	242.10	10-84-4032
4	Male	—	—	.300	1.050	—	—	—	—	—	WM1258-ND	1.26	11.13	74.17	296.69	10-84-4040
4	Female	—	—	.300	1.050	—	—	—	—	—	WM1265-ND	1.22	10.78	71.87	287.47	10-84-4042
6	Male	—	—	.800	.550	—	—	—	—	—	WM1259-ND	1.65	14.58	97.18	388.70	10-84-4060
6	Female	—	—	.800	.550	—	—	—	—	—	WM1266-ND	1.71	15.11	100.73	402.91	10-84-4062
9	Male	—	—	.800	.800	—	—	—	—	—	WM1260-ND	2.10	18.52	123.49	493.96	10-84-4090
9	Female	—	—	.800	.800	—	—	—	—	—	WM1267-ND	2.42	21.37	142.47	569.86	10-84-4092
12	Male	—	—	.800	1.050	—	—	—	—	—	WM1261-ND	2.49	21.94	146.28	585.12	10-84-4120
12	Female	—	—	.800	1.050	—	—	—	—	—	WM1268-ND	3.07	27.07	180.44	721.75	10-84-4122
15	Male	—	—	.800	1.300	—	—	—	—	—	WM1262-ND	3.08	27.16	181.08	724.30	10-84-4150
15	Female	—	—	.800	1.300	—	—	—	—	—	WM1269-ND	3.35	29.59	197.29	789.17	10-84-4152

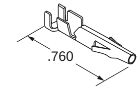
* Ratings are per circuit, based on fully loaded housings.
†† Cap housing should be installed into panel in the same direction as the panel cutout is punched.

.084” Terminals

Split Pin (Male)



Socket (Female)



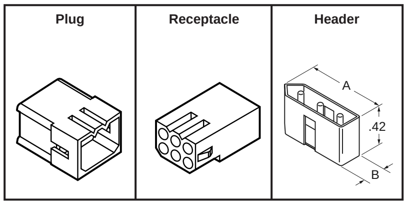
Description	Wire Size AWG Tin Plated	Insulation Dia. (Inch) Min.	Insulation Dia. (Inch) Max.	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Pricing 1,000	Molex Part No.
Male Crimp	14-20	.060	.130	WM1270-ND	.97	7.79	32.46	51.94	02-08-2004
Female Crimp	14-20	.060	.130	WM1271-ND	.99	7.95	33.13	53.00	02-08-1002
Hand Tool	14-20	—	—	WM9925-ND		169.72 each			63811-3500
Extraction Tool	14-20	—	—	WM9921-ND		54.51 each			11-01-0168

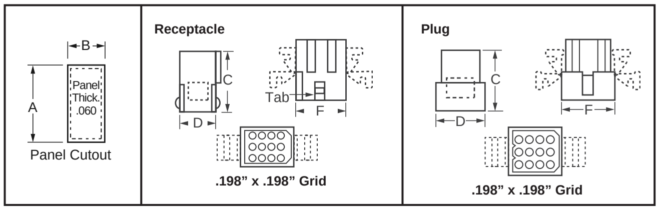
molex **Waldom** ELECTRONICS

Power Connectors

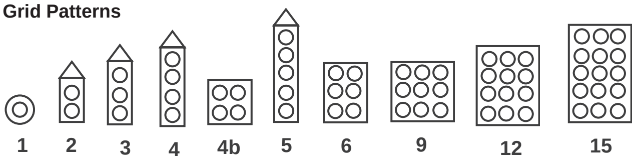
.093” Diameter Connectors

- UL File Number E-29179; CSA File Number LR-19980.
- Up to 12 amperes per circuit (ratings based on fully loaded housings).
- 250 Volt rating for 03-09 series; 600 Volt rating for 19-09 series
- Friction lock for 03-09 series; Positive lock for 19-09 series





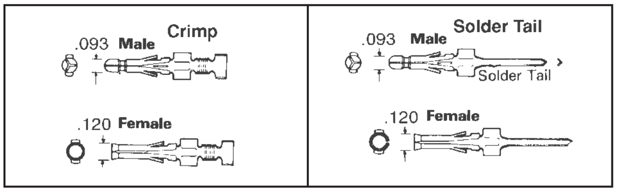
Grid Patterns



(Contacts sold separately)

.093” Terminals

- Use with .093" housing
- **Temperature Range:** 40°C to 105°C • .010" stock 70/30 brass
- **High Voltage Test:** Withstands 1500 volts RMS for 60 seconds min. applied between adjacent terminals
- **Current Rating:** Amperage rating up to 12 amps on some sizes
- **Storage Temperature Range:** -40°C to 125°C
- **Plating:** 200-300µ Inch Hot-Tin Dip tin plating



Description	Wire Size	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
Male, Crimp Type	14-20	.065/.160	WM1100-ND	.79	6.30	26.24	02-09-2103
			WM1100CT-ND†	—	6.30	26.24	02-09-2101
			WM1100TR-ND‡	210.70/7,000			
Female, Crimp Type	14-20	.065/.160	WM1101-ND	.78	6.20	25.84	02-09-1104
			WM1101CT-ND†	—	6.20	25.84	02-09-1102
			WM1101TR-ND‡	206.22/7,000			
Male, Crimp Type	18-22	.060/.120	WM1102-ND	.81	6.52	27.16	02-09-2118
Female, Crimp Type	18-22	.060/.120	WM1103-ND	.78	6.20	25.84	02-09-1119
Male, Solder-Tail	—	—	WM1104-ND	1.80	14.37	59.89	02-09-2133
Female, Solder-Tail	—	—	WM1105-ND	1.80	14.41	60.03	02-09-1134
Male, Crimp Type	18-22	.060/.120	WM1106-ND*	9.42	75.33	313.89	02-09-6123
Female, Crimp Type	18-22	.060/.120	WM1107-ND*	9.42	75.33	313.89	02-09-5142
Male, Crimp Type	24-30	.030/.060	WM1108-ND*	10.65	85.16	354.84	02-09-6145
Female, Crimp Type	24-30	.030/.060	WM1109-ND*	10.65	85.16	354.84	02-09-5147
Male, Solder-Tail	—	—	WM1110-ND*	13.12	104.97	437.39	02-09-6132
Female, Solder-Tail	—	—	WM1111-ND*	14.06	112.45	468.53	02-09-5132
Hand Tool (Waldom)	—	—	WM9903-ND	13.22 each			W-HT-1919
(14-22 AWG) (Molex)	—	—	WM9923-ND	180.33 each			11-01-0084
Universal Crimp Tool (Molex)	—	—	WM9999-ND	38.36 each			63811-1000
Production Tool (24-30 AWG) (Molex)	—	—	WM9967-ND *NEW!*	207.87 each			63811-3400
Extraction Tool (Molex)	—	—	WM9930-ND	18.17 each			11-03-0006

⋆ 15µ Select Gold Finish. † CT = Cut Tape. ‡ TR = Tape and Reel.

Cable Connector Designer Kits

WM9801-ND — Contains same as WM9800-ND but covers from single to 15-circuit designs (250V and up to 12A/circuit. 45 complete connectors with .093" (2.36mm) dia. pin size. Crimping tool, pin terminal ejector and case included **$32.17**

Grid Space	Circ. (a)	Type	Max. Amps	Volts	Dimensions (Inch) A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
.093” Diameter Connector Housings — With Detent Only, Free Hanging														
.198”	1	Plug	12	5000	—	—	2.250	.437	—	WM1301-ND	.42	3.72	24.83	03-09-2014
		Receptacle	12	5000	—	—	1.859	.312	—	WM1300-ND	.42	3.74	24.94	03-09-1014
	1	Plug	12	250	—	—	1.000	.358	—	WM1303-ND	.23	2.02	13.46	03-09-2011
		Receptacle	12	250	—	—	1.000	.234	—	WM1302-ND	.23	2.02	13.46	03-09-1011
	3	Plug	12	250	.933	.375	.970	.340	.770	WM1325-ND	.43	3.78	25.20	03-09-2032
		Receptacle	12	250	.840	.312	1.015	.236	.670	WM1332-ND	.45	3.96	26.37	03-09-1032
	4	Plug	12	250	1.131	.375	1.000	.338	.971	WM1326-ND	.47	4.18	27.88	03-09-2042
		Receptacle	12	250	1.038	.312	1.000	.236	.868	WM1333-ND	.48	4.23	28.22	03-09-1042
	4(c)	Plug	12	250	.555	.695	1.024	.538	.538	WM1327-ND	.70	6.15	41.02	03-09-2049
		Receptacle	12	250	.500	.600	1.000	.434	.434	WM1334-ND	.67	5.95	39.65	03-09-1049
	5(d)	Plug	12	250	—	—	.969	.350	1.170	WM1315-ND	.76	6.69	44.60	03-09-2057
		Receptacle	12	250	—	—	1.000	.240	1.070	WM1314-ND	.73	6.43	42.85	03-09-1057
	6	Plug	9	250	.750	.695	1.000	.733	.536	WM1328-ND	.63	5.55	37.02	03-09-2062
		Receptacle	9	250	.718	.600	1.015	.632	.434	WM1335-ND	.63	5.55	37.02	03-09-1064
	9(e)	Plug	9	250	.937	.660	.970	.730	.770	WM1329-ND	.75	6.58	43.86	03-09-2092
		Receptacle	9	250	.828	.725	1.015	.625	.666	WM1336-ND	.80	7.04	46.91	03-09-1094
	12	Plug	7.5	250	1.155	.760	1.000	.737	.770	WM1330-ND	.88	7.78	51.86	03-09-2121
		Receptacle	7.5	250	1.050	.655	1.015	.633	.871	WM1337-ND	.82	7.26	48.42	03-09-1126
.248”	2	Plug	12	600	—	—	1.031	.359	.656	WM1401-ND	.57	5.04	33.58	03-09-2028
		Receptacle	12	600	—	—	1.063	.265	.531	WM1400-ND	.54	4.81	32.04	03-09-1028
	4(b)	Plug	9	600	—	—	1.031	.359	1.156	WM1405-ND	.69	6.12	40.78	03-09-2048
		Receptacle	9	600	—	—	1.063	.265	1.032	WM1404-ND	.67	5.95	39.65	03-09-1047
.093” Diameter Connector Housings — With Mounting Ears & Detent, Panel Mount														
.198”	2	Plug	12	250	.800	.375	1.000	.352	.639	WM1324-ND	.33	2.94	19.61	03-09-2022
		Receptacle	12	250	.725	.312	1.030	.250	.536	WM1331-ND	.36	3.16	21.07	03-09-1022
	3	Plug	12	250	.933	.375	.970	.340	.770	WM1307-ND	.49	4.30	28.65	03-09-2031
		Receptacle	12	250	.840	.312	1.015	.236	.670	WM1338-ND	.47	4.12	27.48	03-09-1081
	4	Plug	12	250	1.131	.375	.969	.338	.971	WM1309-ND	.50	4.41	29.39	03-09-2041
		Receptacle	12	250	1.038	.312	1.000	.236	.868	WM1308-ND	.48	4.23	28.22	03-09-1041
	4(c)	Plug	12	250	.555	.695	.969	.538	.538	WM1311-ND	.69	6.12	40.78	03-09-2040
		Receptacle	12	250	.500	.600	1.000	.434	.434	WM1310-ND	.67	5.95	39.65	03-09-1040
	6	Plug	9	250	.750	.695	.969	.733	.536	WM1317-ND	.66	5.78	38.53	03-09-2061
		Receptacle	9	250	.718	.600	1.015	.632	.434	WM1316-ND	.66	5.78	38.53	03-09-1061
	9(e)	Plug	9	250	.937	.660	.970	.730	.770	WM1319-ND	.76	6.75	45.00	03-09-2091
		Receptacle	9	250	.828	.725	1.015	.625	.666	WM1318-ND	.76	6.75	45.00	03-09-1091
	12	Plug	7.5	250	1.155	.760	.969	.737	.975	WM1321-ND	.81	7.15	47.65	03-09-2122
		Receptacle	7.5	250	1.050	.665	1.015	.633	.871	WM1320-ND	.82	7.26	48.42	03-09-1125
	15	Receptacle	7.5	250	1.240	.655	1.015	.632	1.066	WM1322-ND	1.10	9.71	64.74	03-09-1154
.248”	2(b)	Plug	12	250	.800	.375	.968	.352	.639	WM1305-ND	.38	3.32	22.16	03-09-2021
		Receptacle	12	250	.725	.312	1.000	.250	.536	WM1304-ND	.36	3.16	21.07	03-09-1027
.250”	3	Plug	11	600	1.022	.365	1.100	.350	.862	WM1501-ND	.76	6.69	44.60	19-09-2031
		Receptacle	11	600	.920	.310	1.140	.250	.760	WM1776-ND	.76	6.24	44.60	19-09-1030
	4	Receptacle	9	600	1.168	.311	1.140	.250	.760	WM1502-ND	.80	7.08	47.20	19-09-1043
	6	Plug	9	600	1.048	.658	1.100	.640	.886	WM1505-ND	.87	7.65	51.01	19-09-2061
		Receptacle	9	600	.946	.608	1.140	.540	.790	WM1504-ND	.87	7.65	51.01	19-09-1061
	9	Plug	8	600	1.048	.910	1.100	.890	.890	WM1507-ND	1.16	10.26	68.37	19-09-2091
		Receptacle	8	600	.948	.850	1.140	.790	.790	WM1506-ND	1.16	10.22	68.13	19-09-1091
	12	Plug	6	600	1.300	.910	1.100	.890	1.140	WM1509-ND	1.23	10.84	72.29	19-09-2122
		Receptacle	6	600	1.094	.850	1.140	.790	1.034	WM1508-ND	1.74	15.34	102.26	19-09-1121
	15	Plug	6	600	1.552	.910	1.100	.890	1.388	WM1511-ND	2.21	19.49	129.96	19-09-2153
		Receptacle	6	600	1.422	.850	1.140	.790	1.282	WM1510-ND	2.20	19.43	129.56	19-09-1151
.264”	1	Plug	12	600	.485	.343	.320	.320	.320	WM1601-ND	.38	3.39	22.58	19-09-2018
		Receptacle	12	600	—	—	—	.300	.400	WM1600-ND•	.38	3.39	22.58	19-09-1019
	2	Plug	12	600	.800	.365	.635	.320	.580	WM1603-ND	.56	4.92	32.78	19-09-2028
		Receptacle	12	600	—	—	—	.300	.560	WM1602-ND•	.56	4.92	32.78	19-09-1029
	3	Plug	11	600	1.022	.365	.862	.320	.848	WM1605-ND	.53	4.64	30.93	19-09-2038
		Receptacle	11	600	—	—	—	.300	.830	WM1604-ND•	.54	4.81	32.04	19-09-1039
	4	Plug	9	600	1.270	.365	1.109	.321	1.110	WM1607-ND	.63	5.55	37.00	19-09-2048
		Receptacle	9	600	—	—	—	.300	1.090	WM1606-ND•	.64	5.61	37.39	19-09-1049
	6	Plug	9	600	1.048	.658	.888	.604	.850	WM1609-ND	.70	6.21	41.39	19-09-2068
		Receptacle	9	600	—	—	—	.560	.830	WM1608-ND•	.68	6.04	40.28	19-09-1069
	9	Plug	8	600	1.048	.909	.883	.868	.850	WM1611-ND	.78	6.92	46.11	19-09-2098
		Receptacle	8	600	—	—	—	.560	.830	WM1610-ND•	.79	6.95	46.35	19-09-1099
	12	Plug	7	600	1.100	.910	1.140	.668	1.112	WM1613-ND	1.04	9.19	61.27	19-09-2128
		Receptacle	7	600	—	—	—	.830	.900	WM1612-ND•	.88	7.77	51.81	19-09-1129
	15	Plug	6	600	1.552	.910	1.392	.868	1.380	WM1615-ND	1.23	10.89	72.61	19-09-2158
		Receptacle	6	600	—	—	—	.868	1.380	WM1614-ND•	1.23	10.82	72.11	19-09-1159
.093” Diameter Shrouded Male Pin Header														
.198”	3	Header	5	250	.770	.330	—	—	—	WM1625-ND	2.10	18.52	123.49	10-18-1032
	4	Header	5	250	.970	.330	—	—	—	WM1626-ND	2.39	21.12	140.80	10-18-1041
	6	Header	5	250	.740	.540	—	—	—	WM1627-ND	2.54	22.40	149.33	10-18-1061
	9	Header	5	250	.770	.730	—	—	—	WM1628-ND	3.26	28.77	191.83	10-18-1090
	12	Header	5	250	.980	.740	—	—	—	WM1629-ND	4.76	41.96	279.74	10-18-1120

- **These Receptacles do not have mounting ears.**

(a) Electrical ratings are per circuit.

(b) Center spacing .248” (6.30mm) will accommodate: 14, 16,and 18 AWG with 1/32” (.79mm) insulation – 16 with 18 AWG (double crimp), each with 1/32” (.79mm) insulation. WM1400-WM1405 housing have positive locking rather than detent lock.

(c) 4 circuits in square grid pattern.

(d) Has positive lock rather than detent lock.

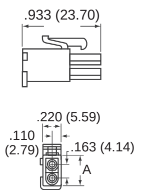
(e) Mounting ears are molded flush with back edge of wire end. Not centered on side.

Mini-Universal MATE-N-LOK® and MATE-N-LOK2® Connectors

Mini-Universal MATE-N-LOK®: Features: • Compact • Contacts are fully protected in the housings. Both pins and sockets can be used on the power supply wiring • Fully polarized to provide proper plug-to-cap mating incorporating a positive locking mechanism to prevent accidental disengagement of mated connectors. Also facilitates panel mounting • Contacts accept wire size range 30-16AWG • .163" (4.14mm) centerline spacing • Recognized under the component program of UL, Inc File No. E28476 • Certified by Canadian Standards Association File No. LR 38721 • Passed test by VDE under their Registration Number 3476/Continuous Surveillance. **Performance Characteristics:** • Dielectric Withstanding Voltage: 1.5KVAC between adjacent circuits • Insulation Resistance: 1000 megohms min. between adjacent circuits • Voltage Rating: 600V AC or DC • Contact Retention: 8lb. min. per contact • Durability: 20 cycles, mating and unmating

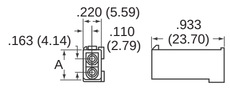
Mini-Universal MATE-N-LOK2®: Features: • Pins and sockets can be intermixed in the same housing although they cannot be intermixed with standard Mini Universal Mate-N-Lok® housings • Contacts accept wire size range 30-16AWG • .163" (4.14mm) centerline spacing • Recognized under the component program of UL Inc File No. E28476 **Performance Characteristics:** • Dielectric Withstanding Voltage: 1500V AC or DC between adjacent circuits at sea level • Insulation Resistance: 100 megohms minimum between adjacent circuits • Voltage Rating: 600V AC or DC • Contact Retention: 20lb. min. per contact • Durability: 25 cycles, mating and unmating • Current Rating: Up to 10.5 amps per circuit: 2 position

Fig. 1



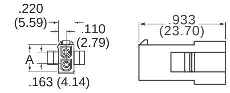
PLUG

Fig. 1A



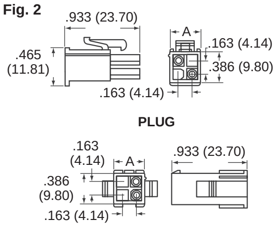
CAP (Free Hanging)

Fig. 1B



CAP (Panel Mount)

Fig. 2



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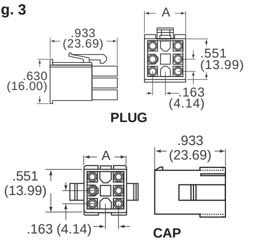
CAP

Fig. 3



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CAP

Fig. 4

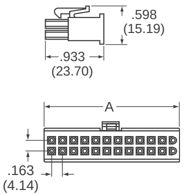

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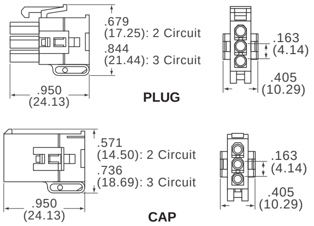
Fig. 5



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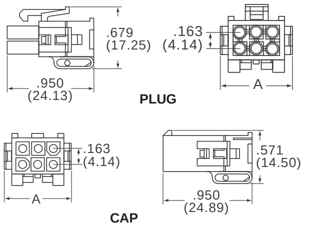
CAP

Fig. 6



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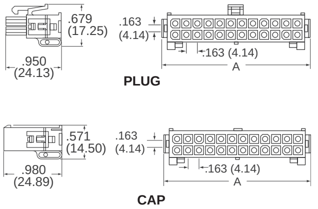
CAP

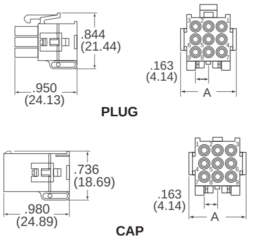
Fig. 7



PLUG

CAP

Fig. 8



PLUG

CAP

Mini-Universal MATE-N-LOK® Connectors

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
.163 (4.14mm) Centerline Housing, UL94V-0 White Nylon							
1	2	Plug In-Line	.386 (9.80)	A25587-ND	.41	.28	172165-1
	3		.551 (14.00)	A25588-ND	.45	.31	172166-1
1A	2	Cap In-Line	.386 (9.80)	A25652-ND	.42	.29	172233-1
	3		.551 (14.00)	A25653-ND	.47	.32	172234-1
1B	2	Cap In-Line	.386 (9.80)	A25697-ND	.37	.25	172157-1
	3		.551 (14.00)	A25698-ND	.47	.32	172158-1
2	4	Plug Dual Row	.386 (9.80)	A25571-ND	.47	.32	172167-1
		Cap Dual Row		A25572-ND	.54	.37	172159-1
	6	Plug Dual Row	.551 (14.00)	A25573-ND	.56	.38	172168-1
		Cap Dual Row		A25574-ND	.57	.39	172160-1
3	9	Plug Matrix	.551 (14.00)	A25702-ND	.61	.41	172169-1
		Cap Matrix		A25699-ND	.64	.43	172161-1
	12	Plug Matrix	.716 (18.19)	A25703-ND	.70	.47	172170-1
		Cap Matrix		A25700-ND	.67	.46	172162-1
	15	Plug Matrix	.882 (22.40)	A25704-ND	.90	.61	172171-1
		Cap Matrix		A25701-ND	.86	.58	172163-1
4	8	Plug Dual Row	.714 (18.14)	A25575-ND	.49	.34	770579-1
	10		.877 (22.28)	A25576-ND	.55	.37	770580-1
	12		1.040 (26.42)	A25577-ND	.59	.40	770581-1
	14		1.203 (30.56)	A25578-ND	1.32	.89	770582-1
	16		1.366 (34.70)	A25579-ND	.92	.62	770583-1
	18	Plug Dual Row	1.529 (38.84)	A25580-ND	1.03	.70	770584-1
	20		1.692 (42.98)	A25581-ND	1.15	.78	770585-1
	22		1.855 (47.12)	A25582-ND	1.26	.85	770586-1
	24		2.018 (51.26)	A25583-ND	1.38	.93	770587-1

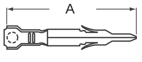
Mini-Universal MATE-N-LOK2® Connectors

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
.163 (4.14mm) Centerline Housing - Free Hanging, UL94V-0 White Nylon							
5	2	Plug, In-Line	—	A25654-ND	.52	.35	794184-1
		Cap, In-Line		A25655-ND	1.10	.74	794185-1
	3	Plug, In-Line	—	A25656-ND	.54	.37	794186-1
		Cap, In-Line		A25657-ND	.96	.65	794187-1
6	4	Plug, Dual Row	.571 (14.50)	A25658-ND	.61	.42	794188-1
		Cap, Dual Row		A25659-ND	.62	.42	794189-1
	6	Plug, Dual Row	.736 (18.70)	A25660-ND	.55	.38	794190-1
		Cap, Dual Row		A25661-ND	1.03	.69	794191-1
7	8	Plug, Dual Row	.899 (22.24)	A25662-ND	.96	.65	794192-1
		Cap, Dual Row		A25705-ND	1.19	.80	794193-1
	10	Plug, Dual Row	1.062 (26.97)	A25663-ND	1.00	.67	794196-1
		Cap, Dual Row		A25708-ND	1.30	.88	794197-1
	12	Plug, Dual Row	1.225 (31.12)	A25711-ND	.85	.58	794198-1
		Cap, Dual Row		A25712-ND	.98	.67	794199-1
	14	Plug, Dual Row	1.388 (35.26)	A25664-ND	.99	.67	794202-1
		Cap, Dual Row		A25713-ND	.98	.66	794203-1
	16	Plug, Dual Row	1.551 (39.40)	A25716-ND	1.07	.72	794206-1
		Cap, Dual Row		A25717-ND	1.04	.70	794207-1
	18	Plug, Dual Row	1.714 (43.54)	A25718-ND	1.20	.81	794208-1
		Cap, Dual Row		A25719-ND	1.39	.94	794209-1
	20	Plug, Dual Row	1.877 (47.68)	A25720-ND	1.34	.91	794210-1
		Cap, Dual Row		A25721-ND	1.55	1.05	794211-1
	22	Plug, Dual Row	2.040 (51.82)	A25722-ND	1.47	1.00	794212-1
		Cap, Dual Row		A25723-ND	1.70	1.15	794213-1
	24	Plug, Dual Row	2.203 (55.96)	A25724-ND	1.34	.91	794214-1
		Cap, Dual Row		A25725-ND	1.86	1.25	794215-1
8	9	Plug, Matrix	.736 (18.69)	A25706-ND	1.09	.74	794194-1
		Cap, Matrix		A25707-ND	1.15	.78	794195-1
	12	Plug, Matrix	.901 (22.89)	A25709-ND	.99	.67	794200-1
		Cap, Matrix		A25710-ND	1.20	.81	794201-1
	15	Plug, Matrix	1.067 (27.10)	A25714-ND	2.63	1.77	794204-1
		Cap, Matrix		A25715-ND	1.22	.83	794205-1

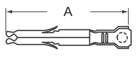
Mini-Universal MATE-N-LOK® Contacts

Specifications: • Material: Brass • Stock Thickness: .008" (.20mm)
Contact Plating: A: Brass pre-tin plated B: Duplex Finish - Plated with .000030" (.000762mm) min. gold in mating area and .000100" (.00254mm) min. tin-lead in crimp area over .000050" (.00127mm) min. nickel underplate on entire contact

Pin Connector



Socket Connector



Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1000	Digi-Key Part No.	Strip Tape & Reel Size	Pricing	AMP Part No.
Pin Contacts — Diameter .039" (0.99mm)														
30-26	.035 - .050 (.889-1.27)	A	.671 (17.04)	A25667-ND	.13	8.52	794059-1	A25667CT-ND	—	47.63	A25667TR-ND	10,000	25.72/M	770835-1
		B		A25671-ND	.43	28.66	794059-3	A25671CT-ND	—	246.15	A25671TR-ND	10,000	132.93/M	770835-3
26-22	.047 - .069 (1.19-1.75)	A	.671 (17.04)	A25675-ND	.13	8.52	770985-1	A25675CT-ND	—	47.63	A25675TR-ND	7,000	28.58/M	770901-1
		B		A25679-ND	.43	28.66	770985-3	A25679CT-ND	—	246.15	A25679TR-ND	7,000	147.69/M	770901-3
22-18 or 22(2)	.059 - .110 or .133 max. (1.50-2.79 or 3.38)	A	.671 (17.04)	A25683-ND	.13	8.52	770987-1	A25683CT-ND	26.19	47.63	A25683TR-ND	4,500	28.58/M	770903-1
		B		A25687-ND	.43	28.66	770987-3	A25687CT-ND	128.59	233.80	A25687TR-ND	4,500	140.28/M	770903-3
20-16 or 20 (2)	.079 - .126 or .094(2) (2.01 - 3.20 or 2.79)	A	.689 (17.50)	A25691-ND	.08	5.29	171638-1	A25691CT-ND	—	43.65	A25691TR-ND	4,000	26.19/M	171636-1

(Continued)

Mini-Universal MATE-N-LOK® and MATE-N-LOK2® Connectors *(Cont.)*

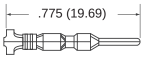
Mini-Universal MATE-N-LOK® Contacts *(Cont.)*

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Strip Tape & Reel Size	Pricing	AMP Part No.
Socket Contacts														
30-26	.035 - .050 (8.89-1.27)	A	.659 (16.74)	A25668-ND	.13	8.52	794058-1	A25668CT-ND	—	47.63	A25668TR-ND	10,000	25.72/M	770834-1
		B		A25672-ND	.43	28.66	794058-3	A25672CT-ND	—	258.48	A25672TR-ND	10,000	139.58/M	770834-3
26-22	.047 - .069 (1.19-1.75)	A	.659 (16.74)	A25676-ND	.13	8.52	770986-1	A25676CT-ND	—	47.63	A25676TR-ND	7,000	28.58/M	770902-1
		B		A25680-ND	.43	28.66	770986-3	A25680CT-ND	—	256.28	A25680TR-ND	7,000	153.77/M	770902-3
22-18 or 22(2)	.059 - .110 or .133 max. (1.50-2.37 or 3.38)	A	.659 (16.74)	A25684-ND	.13	8.52	770988-1	A25684CT-ND	26.19	47.63	A25684TR-ND	4,500	28.58/M	770904-1
		B		A25688-ND	.43	28.66	770988-3	A25688CT-ND	128.59	233.80	A25688TR-ND	4,500	140.28/M	770904-3
20-16 or 20 (2)	.079 - .126 (2.01 - 3.20 or 2.79)	A	.689 (17.50)	A25692-ND	.08	5.21	171639-1	A25692CT-ND	—	43.95	A25692TR-ND	4,000	26.37/M	171637-1
Keying Plugs and Tools for Mini-Universal MATE-N-LOK®														
Keying Plug 94V-0				A25693-ND	.16	10.90	174670-1	—	—	—	—	—	—	—
Contact Extraction Tool				A25695-ND	18.90	—	189727-1	—	—	—	—	—	—	—
Contact Insertion Tool				A1444-ND	27.20	—	455830-1	—	—	—	—	—	—	—
PRO-CRIMPER II Hand Tool, w/Die, 22-26AWG				A25584-ND	145.50	—	90758-1	—	—	—	—	—	—	—
PRO-CRIMPER II Hand Tool, w/Die, 20-22 or 18(2)AWG				A25585-ND	145.50	—	90759-1	—	—	—	—	—	—	—
PRO-CRIMPER II Hand Tool, w/Die, 16-20 or 20(2)AWG				A25586-ND	216.00	—	90760-1	—	—	—	—	—	—	—

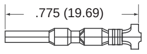
Mini-Universal MATE-N-LOK2® Contacts

Specifications: • Material: Brass • Stock Thickness: .010" (.25mm)
Contact Plating: A: Brass pre-tin plated B: Duplex Finish - Plated with .000030" (.000762mm) min. gold in mating area and .000100" (.00254mm) min. tin-lead in crimp area over .000050" (.00127mm) min. nickel underplate on entire contact

Pin Connector



Socket Connector



Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.
Pin Contacts — Diameter .039" (0.99mm)						
30-26	.035-.050 (8.89-1.27)	A	A28800-ND	.13	8.52	794224-1
		B	A28801-ND	.43	28.66	794224-3
26-22	.047-.069 (1.19-1.75)	A	A28802-ND	.13	8.52	794226-1
		B	A28803-ND	.43	28.66	794226-3
22-18	.059-.110 (1.50-2.79)	A	A28804-ND	.13	8.52	794228-1
		B	A28805-ND	.43	28.66	794228-3
20-16	.079-.126 (2.01-3.20)	A	A28806-ND	.16	11.07	794230-1
		B	A28807-ND	.43	28.66	794230-3

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.
Socket Contacts						
30-26	.035-.050 (8.89-1.27)	A	A28808-ND	.13	8.52	794225-1
		B	A28809-ND	.43	28.66	794225-3
26-22	.047-.069 (1.19-1.75)	A	A28810-ND	.13	8.52	794227-1
		B	A28811-ND	.43	28.66	794227-3
22-18	.059-.110 (1.50-2.79)	A	A28812-ND	.13	8.52	794229-1
		B	A28813-ND	.43	28.66	794229-3
20-16	.079-.126 (2.01-3.20)	A	A28814-ND	.16	11.07	794231-1
		B	A28815-ND	.43	28.66	794231-3
Tools for Mini-Universal MATE-N-LOK2®						
CERTI-CRIMP Hand Tool, 22-18 AWG			A9916-ND	504.00	—	91522-1

Mini-Universal MATE-N-LOK® and MATE-N-LOK2® Headers

Specifications: • Contact Material: Brass • Solder Tail Diameter: .039" (1.00mm) • Housing: UL94V-0 White Nylon
Contact Plating: A: Tin-Lead Finish- Plated with .000150" (.00381mm) min. tin-lead over .000050" (.00127mm) min. nickel underplate on entire contact. B: Duplex Finish - Plated with .000030" (.000762mm) min. gold in mating area and .000100" (.00254mm) min. tin-lead in crimp area over .000050" (.00127mm) min. nickel underplate on entire contact

Fig. 1

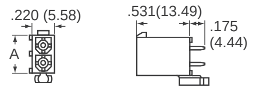


Fig. 2

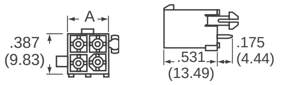


Fig. 3

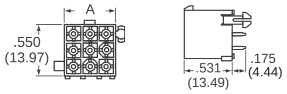


Fig. 4

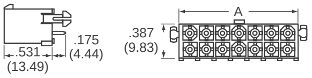


Fig. 5

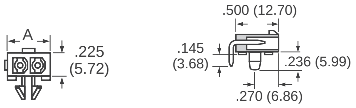


Fig. 6

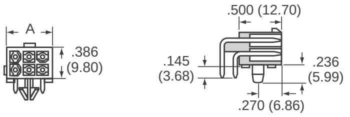


Fig. 7

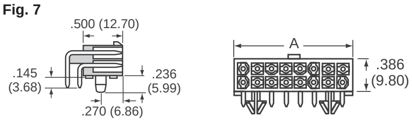


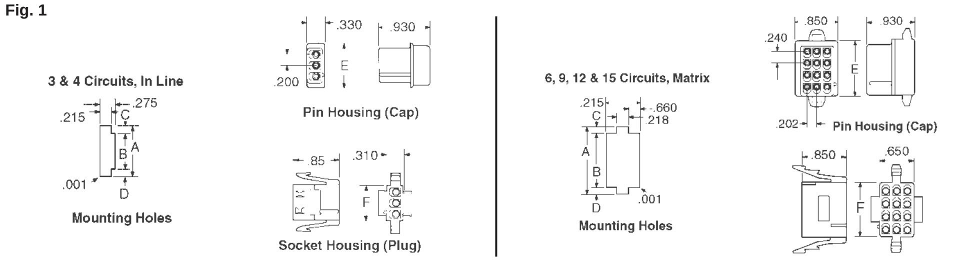
Fig.	No. of Circuits	Type	Contact Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
.163 (4.14) Centerline Vertical PC Board Pin Headers, w/Drain Holes (unless noted)								
1	2	In-Line	A	.387 (9.83)	A25589-ND	.52	.35	770166-1
			A		A25590-ND†	.56	.38	770872-1
			B		A25591-ND	.87	.59	770166-2
			B		A25592-ND†	.97	.65	770872-2
	3	In-Line	A	.550 (13.97)	A25593-ND	.56	.38	770170-1
			A		A25594-ND†	.69	.47	770873-1
			B		A25595-ND	1.32	.89	770170-2
			B		A25596-ND†	1.33	.90	770873-2
2	4	Dual Row	A	.387 (9.83)	A25597-ND	.64	.44	770174-1
			A		A25598-ND†	.86	.58	770874-1
			B		A25599-ND	1.07	.73	770174-2
			B		A25601-ND†	1.62	1.10	770874-2
	6	Dual Row	A	.550 (13.97)	A25602-ND	.65	.45	770178-1
			B		A25603-ND	1.53	1.03	770178-2
	8	Dual Row	A	.713 (18.11)	A25604-ND	1.11	.75	794065-1
			B		A25605-ND	1.98	1.34	794065-2
	10	Dual Row	A	.877 (22.28)	A25608-ND	1.24	.84	770743-1
			B		A25609-ND	2.41	1.63	770743-2
	12	Dual Row	A	1.039 (26.39)	A25610-ND	1.19	.80	794066-1
			A		A25611-ND†	1.46	.99	770621-1
			B		A25612-ND	2.86	1.93	794066-2
3	9	Matrix	A	.551 (14.00)	A25606-ND	1.14	.77	770182-1
			B		A25607-ND	3.33	2.25	770182-2
	12	Matrix	A	.713 (18.11)	A25613-ND	1.40	.95	770186-1
			B		A25614-ND	4.31	2.91	770186-2
	15	Matrix	A	.877 (22.28)	A25617-ND	1.69	1.14	770190-1
			B		A25618-ND	5.35	3.60	770190-2
4	14	Dual Row	A	1.202 (30.53)	A25615-ND	1.21	.82	794067-1
			B		A25616-ND	3.34	2.25	794067-2
	16	Dual Row	A	1.365 (34.67)	A25619-ND	1.34	.91	794068-1
			B		A25620-ND	3.70	2.49	794068-2
	18	Dual Row	A	1.528 (38.81)	A25621-ND	1.51	1.02	794069-1
			B		A25622-ND	4.20	2.83	794069-2

Fig.	No. of Circuits	Type	Contact Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
4	20	Dual Row	A	1.691 (42.95)	A25623-ND	1.68	1.13	794070-1
			B		A25624-ND	4.68	3.15	794070-2
	22	Dual Row	A	1.854 (47.09)	A25625-ND	1.86	1.26	794071-1
			B		A25626-ND	5.71	3.84	794071-2
	24	Dual Row	A	2.017 (51.23)	A25627-ND	2.05	1.38	794072-1
			B		A25628-ND	6.30	4.24	794072-2
..163 (4.14) Centerline PC Board Pin Headers, Right Angle with Board Lock								
5	2	In-Line	A	.388 (9.86)	A25629-ND	.67	.46	770966-1
			B		A25630-ND	1.40	.95	770966-2
	3	In-Line	A	.551 (14.00)	A25631-ND	.98	.66	770967-1
			B		A25632-ND	2.31	1.56	770967-2
6	4	Dual Row	A	.388 (9.86)	A25633-ND	.91	.62	770968-1
			B		A25634-ND	2.38	1.60	770968-2
	6	Dual Row	A	.551 (14.00)	A25635-ND	.99	.67	770969-1
			B		A25636-ND	3.20	2.16	770969-2
	8	Dual Row	A	.714 (18.14)	A25637-ND	1.38	.93	770970-1
			B		A25638-ND	4.22	2.85	770970-2
	10	Dual Row	A	.877 (22.28)	A25639-ND	1.61	1.08	770971-1
			B		A25640-ND	5.25	3.53	770971-2
	12	Dual Row	A	1.040 (26.42)	A25641-ND	1.83	1.24	770972-1
			B		A25642-ND	5.39	3.63	770972-2
7	14	Dual Row	A	1.203 (30.56)	A25643-ND	2.72	1.83	770973-1
			B		A25644-ND	7.28	4.90	770973-2
	16	Dual Row	A	1.366 (34.70)	A25645-ND	1.81	1.22	770974-1
			B		A25646-ND	8.31	5.59	770974-2
	18	Dual Row	A	1.529 (38.84)	A25647-ND	3.05	2.06	794105-1
	20	Dual Row	A	1.692 (42.98)	A25648-ND	2.87	1.93	794106-1
			B		A25649-ND	10.62	7.15	794106-2
	22	Dual Row	A	1.855 (47.12)	A25696-ND	3.73	2.51	794107-1
	24	Dual Row	A	2.018 (51.26)	A25650-ND	4.07	2.74	794108-1
			B		A25651-ND	12.74	8.58	794108-2

† These part numbers are without drain holes

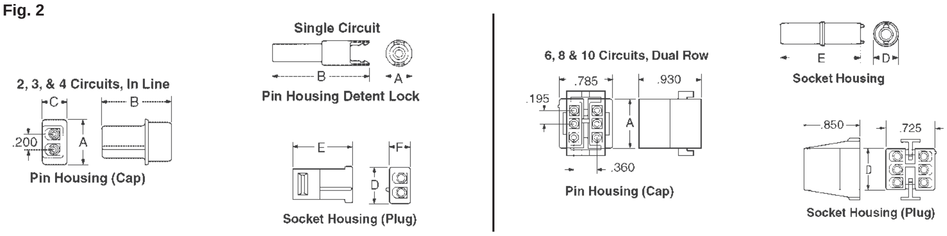
Commercial MATE-N-LOK® Connectors

Fig. 1


3 & 4 Circuits, In Line

6, 9, 12 & 15 Circuits, Matrix

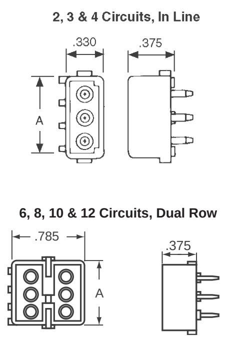
Fig. 2


2, 3, & 4 Circuits, In Line

Single Circuit

6, 8 & 10 Circuits, Dual Row

Fig. 3


2, 3 & 4 Circuits, In Line

6, 8, 10 & 12 Circuits, Dual Row

Mate with Free Hanging Socket Connectors

Housing Material: Natural nylon

Pin Material: Copper alloy.

Note: *Use standard pin for .062" (1.57 mm) thick PC board. Use long tail for .125" (3.18 mm) thick PC board.*

No.of Cir.	Description	Dimensions – Inch						Digi-Key Part No.	Pricing		AMP Part No.
		A	B	C	D	E	F		1	100	
Fig.1 – Panel-Mount Rectangular Connectors (Contacts Sold Separately)											
3	Pin Housing	.890	.645	.123	.123	.810	—	A1400-ND	.18	14.05	1-480305-0
	Socket Housing	.890	.645	.123	.123	—	.630	A1401-ND	.21	16.31	1-480304-0
4	Pin Housing	1.090	.845	.123	.123	1.010	—	A1402-ND	.22	17.06	1-480426-0
	Socket Housing	1.090	.845	.123	.123	—	.830	A1403-ND	.46	37.23	1-480425-0
6	Pin Housing	.850	.575	.138	.138	.655	—	A1404-ND	.36	28.16	1-480276-0
	Socket Housing	.850	.575	.138	.138	—	.565	A1405-ND	.58	47.20	1-480273-0
9	Pin Housing	1.085	.815	.135	.135	.905	—	A1406-ND	.62	50.10	1-480277-0
	Socket Housing	1.085	.815	.135	.135	—	.805	A1407-ND	.69	56.18	1-480274-0
12	Pin Housing	1.320	1.050	.135	.135	1.145	—	A1424-ND	.74	59.86	1-480278-0
	Socket Housing	1.320	1.050	.135	.135	—	1.045	A1425-ND	.80	64.83	1-480275-0
15	Pin Housing	1.555	1.290	.133	.133	1.382	—	A1426-ND	1.04	84.51	1-480324-0
	Socket Housing	1.555	1.290	.133	.133	—	1.280	A1427-ND	1.17	95.04	1-480323-0
Fig. 2 – Free-Hanging Rectangular Connectors (Contacts Sold Separately)											
1	Pin Housing Detent Lock	.300	1.200	—	—	—	—	A1204-ND	.09	7.48	1-480350-0
	Pin Housing	.300	1.240	—	—	—	—	A1408-ND	.08	6.16	1-480351-0
	Socket Housing	—	—	—	2.60	.870	—	A1409-ND	.08	6.16	1-480349-0
	Pin Housing Detent Lock	.300	1.325	—	—	—	—	A25388-ND*	.24	19.26	1-480401-0
	Socket Housing	—	—	—	.260	.995		A25389-ND*	.10	8.05	1-480400-0
2	Pin Housing	.610	.930	.330	—	—	—	A1410-ND	.10	7.83	1-480319-0
	Socket Housing	—	—	—	.530	.860	.295	A1411-ND	.10	7.80	1-480318-0
	Pin Housing Detent Lock	.610	.930	.330	—	—	—	A25756-ND*	.44	35.48	1-480498-1
	Socket Housing	—	—	—	.530	.860	.295	A25757-ND*	.42	34.19	1-480393-1
3	Pin Housing	.810	.930	.325	—	—	—	A1400-ND	.18	14.05	1-480305-0
	Socket Housing	—	—	—	.825	.850	.290	A1429-ND	.19	14.74	1-480303-0
	Pin Housing Detent Lock	.810	.930	.325	—	—	—	A25414-ND*	.39	31.19	1-480387-0
	Socket Housing	—	—	—	.825	.850	.290	A25415-ND*	.42	33.90	1-480388-0
4	Pin Housing	1.010	.930	.330	—	—	—	A1402-ND	.22	17.06	1-480426-0
	Socket Housing	—	—	—	1.030	.850	.310	A1431-ND	.18	14.36	1-480424-0
	Pin Housing Detent Lock	1.010	.930	.330	—	—	—	A25416-ND†	1.06	85.77	794132-1
	Socket Housing	—	—	—	1.030	.850	.310	A25417-ND†	.30	24.67	770827-1
6	Pin Housing	.705	—	—	—	—	—	A1412-ND	.52	41.69	1-480340-0
	Socket Housing	—	—	—	.610	—	—	A1413-ND	.36	28.75	1-480270-0
8	Pin Housing	.900	—	—	—	—	—	A1206-ND	.56	45.73	1-480345-0
	Socket Housing	—	—	—	—	.805	—	A1207-ND	.38	30.14	1-480283-0
10	Pin Housing	1.095	—	—	—	—	—	A1414-ND	.65	52.42	1-480339-0
	Socket Housing	—	—	—	1.00	—	—	A1415-ND	.73	59.00	1-480285-0

No. of Cir.	Description	Dim. – Inch		Digi-Key Part No.	Pricing		AMP Part No.
		A	B		1	100	
Fig. 3 – Printed Circuit Board Pin Header Assemblies – Mate Socket Housing							
2	Pre-Tin with Detent Lock	.515	—	A1208-ND	.32	25.05	350209-1
	Gold with Detent Lock	.515	—	A1209-ND	1.07	86.72	350209-2
	Pre-Tin Positive Lock	.515	—	A14364-ND	.42	33.00	350539-1
	Gold Positive Lock	.515	—	A14365-ND	1.28	103.82	350539-2
	Pre-Tin with Positive Lock Long Tail	.515	—	A14366-ND	.90	73.21	350540-1
	Pre-Tin Detent Lock Long Tail	.515	—	A14367-ND	.55	44.51	350422-1
3	Pre-Tin with Detent Lock	.715	—	A1210-ND	.50	39.85	350210-1
	Gold with Detent Lock	.715	—	A1211-ND	1.63	132.06	350210-2
	Pre-Tin Positive Lock	.715	—	A14368-ND	.96	77.44	350541-1
	Gold Positive Lock	.715	—	A14369-ND	1.84	149.16	350541-2
	Pre-Tin Detent Lock Long Tail	.715	—	A14370-ND	.72	58.28	350423-1
4	Pre-Tin with Detent Lock	.915	—	A1212-ND	.47	37.33	350211-1
	Gold with Detent Lock	.915	—	A1213-ND	1.30	103.03	350211-2
	Pre-Tin Positive Lock	.915	—	A14371-ND	.91	72.26	350543-1
	Gold Positive Lock	.915	—	A14372-ND	2.53	204.89	350543-2
	Pre-Tin Positive Lock Long Tail	.915	—	A14373-ND	1.62	131.04	350544-1
	Pre-Tin Detent Lock Long Tail	.915	—	A14374-ND	.84	68.17	350424-1
	Gold Detent Lock Long Tail	.915	—	A14375-ND	4.31	348.50	350424-2
6	Pre-Tin Positive Lock Dual Row	.705	—	A1214-ND	.65	51.18	1-380999-0
	Gold Positive Lock Dual Row	.705	—	A1215-ND	2.74	222.02	2-380999-0
	Pre-Tin Positive Lock Long Tail Dual Row	.705	—	A14376-ND	1.01	81.79	350425-1
8	Pre-Tin Positive Lock Dual Row	.900	—	A1216-ND	.75	59.40	350212-1
	Pre-Tin Positive Lock Long Tail	.900	—	A14377-ND	1.14	92.53	350426-1
	Gold Positive Lock Dual Row	.900	—	A1217-ND	3.15	255.37	350212-2
10	Pre-Tin Positive Lock Dual Row	1.095	—	A1218-ND	.89	70.08	1-380991-0
	Gold Positive Lock Dual Row	1.095	—	A1219-ND	4.16	337.09	2-380991-0
	Pre-Tin Positive Lock Long Tail	1.095	—	A14378-ND	1.64	132.87	350219-1
12	Pre-Tin Positive Lock	1.290	—	A14379-ND	1.66	134.49	350213-1
	Pre-Tin Positive Lock Long Tail	1.290	—	A14380-ND	1.73	140.31	350220-1
16	Pre-Tin Positive Lock	1.680	—	A14381-ND	2.05	165.79	350214-1
	Pre-Tin Positive Lock Long Tail	1.680	—	A14382-ND	2.68	216.65	350427-1
Fig. 3 – PC Board Vertical Pin Header – Mate w/Socket Housing – UL94V-2							
4	Pre-Tin, with Detent Lock	.915	—	A25420-ND	.61	49.31	770328-1
	Pre-Tin, with Detent Lock Housing Mat'l UL94V-0	.915	—	A25422-ND	.52	41.71	794236-1
12	Gold, with Positive Lock	1.290	—	A25423-ND	4.79	387.89	350213-2
Fig. 3 – PC Board Vertical Socket Header – Mate w/Pin Housing – UL94V-2							
4	Pre-Tin, In-Line, SMT Compatible	1.000	—	A25425-ND	.98	79.30	794287-1
6	Pre-Tin, Matrix	.720	—	A25763-ND	.88	71.36	350641-1
9	Pre-Tin, Matrix	.960	—	A25764-ND	1.22	98.54	350642-1
12	Pre-Tin, Matrix	1.200	—	A25426-ND	1.66	134.22	350643-1
15	Pre-Tin, Matrix	1.440	—	A25765-ND	2.03	164.24	350644-1
Fig. 4 – Positive Lock Socket Housing							
2	Socket Housing (Plug)	.435	—	A14357-ND	.32	24.93	1-480720-0
3	Socket Housing (Plug)	.630	—	A14358-ND	.66	53.37	1-480721-0
4	Socket Housing (Plug)	.830	—	A14359-ND	.72	58.25	1-480722-0
Fig. 5 – Motor Mount Housing (Positive Lock)							
6	Pin Housing (Cap)	.705	—	A14361-ND	.54	43.58	1-480271-0
6	Socket Housing (Plug)	—	.610	A1413-ND	.36	28.75	1-480270-0
8	Pin Housing (Cap)	.900	—	A25410-ND	.90	73.16	1-480284-0
10	Pin Housing (Cap)	1.095	—	A25411-ND	1.04	83.81	1-480286-0
12	Pin Housing (Cap)	1.290	—	A25413-ND	1.13	91.61	1-480288-0
12	Socket Housing (Plug)	—	1.195	A25412-ND	.80	64.83	1-480287-0
16	Pin Housing (Cap)	1.680	—	A14363-ND	.90	73.02	1-480439-0
16	Socket Housing (Plug)	—	1.585	A14362-ND	1.18	95.60	1-480438-0

* UV Stable Black Color † Housing Material: UL94V-0 Rated

(Continued)

Fig. 4

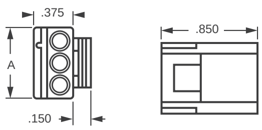


Fig. 5

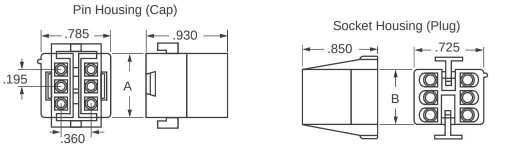


Fig. 6

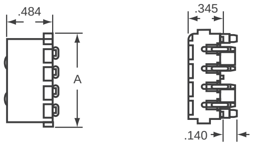


Fig. 7

Mating parts include socket housings, a vertical PC Board socket header and the insulation displacement connnectors (IDC) **Specifications:** • Pre-Tin Solder Tail: width .052" (1.32mm) • Housing Material: Nylon, black • Flammability Rating: UL94V-2 • Contact: Phosphor bronze • Pin Material: Copper alloy

Recommended PC Board Layout: .061" (1.57mm) thick PC Board.

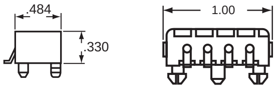


Fig. 8

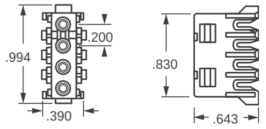
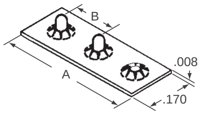


Fig. 9



No. of Cir.	Description	Dim. – Inch A	B	Digi-Key Part No.	Pricing 1	100	AMP Part No.
Fig. 6 – PC Board Right Angle Pin Headers - Mates with Socket Housing							
2	UL94V-2, Nylon, Natural	.600	—	A25753-ND	1.03	83.54	794120-1
3	UL94V-0, Nylon	.800	—	A25429-ND	1.41	113.99	643488-1
4	UL94V-2, Nylon, Natural	1.000	—	A25430-ND	.77	62.53	641737-1
4	UL94V-2, Nylon, Natural, Surface Mount Compatible	1.000	—	A25431-ND	1.25	101.39	770846-1
4	UL94V-0, Nylon	1.000	—	A25432-ND	1.17	95.02	1-641737-1
Fig. 7 – PC Board Surface Mount Pin Header							
4	Pin Header, In-Line	—	—	A25424-ND	1.12	90.97	770829-1
Fig. 8 – Insulation Displacement Connector (IDC)							
	Pre-Tin, 22AWG, Red, UL94V-2			A14383-ND	.47	37.48	770156-2
	Pre-Tin, 22AWG, Red, UL94V-0			A25433-ND	.68	54.80	794036-3
	Pre-Tin Pin Finish 20AWG, Yellow, UL94V-2			A14384-ND	.47	37.48	770156-4
	Pre-Tin, 20AWG, Yellow, UL94V-0			A25434-ND	.68	54.80	794036-2
	Pre-Tin Pin Finish 18AWG, Orange, UL94V-2			A14385-ND	.47	37.48	770156-3
	Pre-Tin, 18AWG, Orange, UL94V-0			A25435-ND	.84	67.94	794036-1
	Pre-Tin, 16AWG, Blue, UL94V-2			A25436-ND	.73	59.38	770156-5
	Pre-Tin, 16AWG, Blue, UL94V-0			A25437-ND	.68	54.80	794036-4

Description	Dim. – Inch A	B	Digi-Key Part No.	Pricing 1	100	AMP Part No.
Dust Covers for IDC Parts - UL94V-2						
For Feed to Wiring, Polyester, White	—	—	A25438-ND	.14	11.61	770232-1
For Feed Through Wiring, Poly, White	—	—	A25439-ND	.15	12.03	770233-1
Fig. 9 – Commoning Tabs - Use With Pin Housing						
2 Holes, Brass, Tin Plated	.377	.203	A25427-ND	.05	3.70	60843-1
3 Holes, Brass, Tin Plated	.579	.203	A25428-ND	.05	4.05	60842-1
Tools						
CERTICRIMP Crimp Tool for 18-24AWG			A9974-ND	426.93 Each		91512-1
CERTICRIMP Crimp Tool for 14-20AWG			A9908-ND	393.68 Each		91504-1
PRO-CRIMPER II Crimp Tool Without Dies			A9996-ND	66.00 Each		354940-1
PRO-CRIMPER II Die Set 18-24AWG			A9940-ND	105.00 Each		90574-2
PRO-CRIMPER II Die Set 14-20AWG			A9939-ND	105.00 Each		90575-2
Contact Extraction Tool			A1419-ND	14.36 Each		465644-1
Contact Insertion Tool			A9998-ND	16.78 Each		91002-1
Contact Insertion Tool (Tweezer Type)			A1444-ND	27.20 Each		455830-1
CERTICRIMP Crimp Tool for .043-.075 Insulation Diameter 18-24AWG			A19996-ND	400.28 Each		90123-5
Pro-Crimper II Crimp Tool, With Dies, 18-24AWG			A25418-ND	162.00 Each		90574-1
Pro-Crimper II Crimp Tool, With Dies, 14-20AWG			A25419-ND	162.00 Each		90575-1

Contacts

Fig. 1

- Carries up to 15 amps maximum (based on 30°C temperature rise)
- Low insertion/extraction forces
- UL recognized for 250 volts, AC/DC
- CSA certified

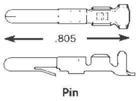
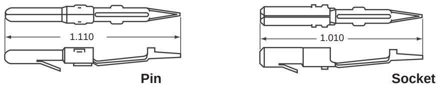


Fig. 2

For PC board with the following specifications:

- Board Thickness: .062" (1.57mm)
- Board Hole Size: .057" (1.45mm)



Description	Insulation Dia. Range Inch	Digi-Key Part No.	Pricing 10	100	AMP Part No.	Digi-Key Part No.	Tape & Reel* Size	Pricing	AMP Part No.
Fig. 1 – Crimp Contacts (Pins & Sockets)									
Pin, Brass, Pre-Tin	30-22AWG .040 - .075	A25547-ND	1.51	10.16	61174-1	A25547TR-ND	8,000	24.86/M	350079-1
Socket, Brass, Pre-Tin		A25548-ND	1.51	10.16	61173-1	A25548TR-ND	6,500	24.86/M	350078-1
Pin, Phosphor Bronze, Pre-Tin		—	—	—	—	A25549TR-ND	8,000	55.56/M	350079-4
Socket, Phosphor Bronze, Pre-Tin		A25550-ND	2.40	16.11	61173-4	A25550TR-ND	6,500	51.32/M	350078-4
Pin, Brass, Gold		A25552-ND	11.84	79.66	61174-5	A25552TR-ND	8,000	366.18/M	350079-5
Socket, Brass, Gold		A25767-ND	11.84	79.66	61173-5	—	—	—	—
Pin, Brass, Pre-Tin	24-18AWG .060 - .100	A1422-ND	1.02	6.89	60618-1	—	—	—	—
Socket, Brass, Pre-Tin		A1423-ND	1.01	6.80	60617-1	—	—	—	—
Pin, Phosphor Bronze, Pre-Tin		A25554-ND	2.23	15.01	60618-4	A25554TR-ND	8,000	51.32/M	61116-4
Socket, Phosphor Bronze, Pre-Tin		A25555-ND	2.23	15.01	60617-4	A25555TR-ND	7,000	38.42/M	61314-4
Pin, Brass, Gold		A1432-ND	9.67	58.39	60618-5	—	—	—	—
Socket, Brass, Gold		A1433-ND	9.67	65.07	60617-5	A1433TR-ND	7,000	366.63/M	61314-5
Pin, Phosphor Bronze, Select Gold		A25558-ND	11.68	78.55	60618-6	—	—	—	—
Socket, Phosphor Bronze, Select Gold		A25559-ND	9.97	67.06	60617-6	A25559TR-ND	7,000	314.81/M	61314-6
Pin, Brass, Select Gold		—	—	—	—	A25560TR-ND	8,000	206.96/M	61116-7
Pin, Brass, Pre-Tin	20-14AWG .100 - .130	A1420-ND	1.01	6.80	60620-1	—	—	—	—
Socket, Brass, Pre-Tin		A1421-ND	1.01	6.80	60619-1	—	—	—	—
Pin, Phosphor Bronze, Pre-Tin		A25561-ND	2.23	15.01	60620-4	—	—	—	—
Socket, Phosphor Bronze, Pre-Tin		A25562-ND	2.23	15.01	60619-4	—	—	—	—
Pin, Brass, Gold		A1434-ND	11.84	79.66	60620-5	A1434TR-ND	5,000	366.18/M	61118-5
Socket, Brass, Gold		A1435-ND	9.67	58.39	60619-5	—	—	—	—
Socket, Phosphor Bronze, Gold		A25565-ND	11.10	74.67	60619-7	A25565TR-ND	5,000	435.71/M	61117-6
Pin, (2)18 or (1)18 and (1)16AWG, Brass, Pre-Tin	.115 Max. (stacked)	A25568-ND	1.51	10.16	350639-1	A25568TR-ND	3,000	39.52/M	350558-1
Socket, (2)18 or (1)18 and (1)16AWG, Brass, Pre-Tin		—	—	—	—	A25567TR-ND	3,000	39.52/M	350557-1
Pin, (2)18 or (1)18 and (1)16AWG, Phos. Brz., Pre-Tin		—	—	—	—	A25769TR-ND	3,000	73.92/M	350558-4
Socket, (2)18 or (1)18 and (1)16AWG, Phos. Brz., Pre-Tin		A25570-ND	2.23	15.00	350638-4	A25570TR-ND	3,000	73.92/M	350557-4
Fig. 2 – PC Board Contacts									
Pin, Phosphor Bronze, Pre-Tin	—	A24727-ND	1.82	16.05	61518-1	—	—	—	—
Socket, Phosphor Bronze, Pre-Tin	—	A24728-ND	1.92	16.92	61320-1	—	—	—	—
Keying Plug									
Nylon, Natural UL94V-2	—	A16066-ND	—	10.86	200821-1	—	—	—	—

Gold Finish - Plated with .000030 min. gold in mating area and inside wire barrel over .000050 min. nickel
Select Gold Finish - Plated with .000030 min. gold in mating area over .000050 min. nickel
*The TR are also available in CT

Universal MATE-N-LOK® Connectors - Soft Shell

Fig. 1

• Pins and sockets can be intermixed in the same housing • Positive polarization • Pin or socket contact can be hot • Positive locking housings • Removable, crimp snap-in contacts • Low contact mating force • Dual locking lances provide optimum contact stability • Panel-mount or free-hanging • Harness to PC board capability using pin or socket header assemblies

Features: • Rated to 600 volts • Insulation capacity to .200" (5.08 mm) diameter • Contacts are on .250" (6.35 mm) centerline spacing

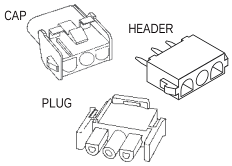


Fig. 2

Mating Connectors: Housings and headers having the same number of circuits. The housings can have pin or socket contacts, or a combination of both. Test probes have 5amp max. current rating. 1,000,000 cycles. Test connector housings are of the same configuration as standard housings

Fig. 2A — 2-5 Circuits

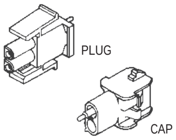


Fig. 2B — 6 Circuits

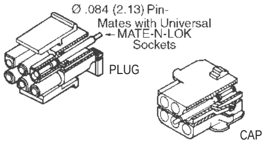


Fig. 3

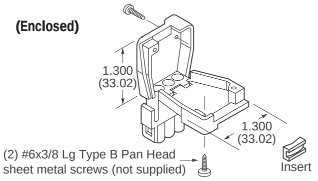

(Enclosed)
1.300
(33.02)
1.300
(33.02)
(2) #6x3/8 Lg Type B Pan Head
sheet metal screws (not supplied)
Insert

Fig. 4

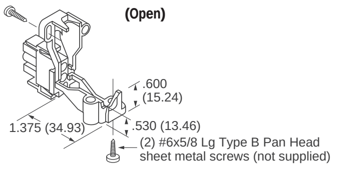

(Open)
.600
(15.24)
1.375 (34.93)
.530 (13.46)
(2) #6x5/8 Lg Type B Pan Head
sheet metal screws (not supplied)

Fig. 5

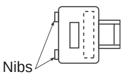


Fig. 6

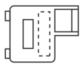
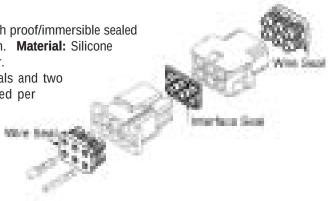


Fig. 7

Economical splash proof/immersible sealed connector system. **Material:** Silicone rubber, blue color.
One interface seals and two wire seal required per mated assembly.



Connectors

Fig.	No. of Circuits	Description	Digi-Key Part No.	Pricing 1	Pricing 100	AMP Part No.
Universal MATE-N-LOK® UL 94V-2 Connectors Nylon, Natural Color (Contacts Sold Separately)						
1	1	Plug In-Line	A14270-ND	.09	7.40	1-350867-0
		Cap In-Line	A14271-ND	.10	7.80	770421-1
	2	Plug In-Line	A1448-ND	.17	13.22	1-480698-0
		Cap In-Line	A1449-ND	.15	12.07	1-480699-0
	3	Plug In-Line	A1450-ND	.16	12.63	1-480700-0
		Cap In-Line	A1451-ND	.17	13.24	1-480701-0
	4	Plug In-Line	A1452-ND	.17	13.57	1-480702-0
		Cap In-Line	A1453-ND	.17	13.44	1-480703-0
	5	Plug In-Line	A1454-ND	.21	16.87	1-480763-0
		Cap In-Line	A1455-ND	.24	19.03	1-480764-0
	6	Plug Matrix	A1456-ND	.21	16.44	1-480704-0
		Cap Matrix	A1457-ND	.20	15.68	1-480705-0
		Plug In-Line	A14272-ND	.42	33.48	640585-1
		Cap In-Line	A14273-ND	.71	57.41	926307-1
	8	Plug In-Line	A14274-ND	.64	51.55	640586-1
		Cap In-Line	A14275-ND	1.08	87.53	926308-1
	9	Plug Matrix	A1458-ND	.24	18.66	1-480706-0
		Cap Matrix	A1459-ND	.21	16.79	1-480707-0
	12	Plug Matrix	A1460-ND	.27	21.58	1-480708-0
		Cap Matrix	A1461-ND	.24	19.03	1-480709-0
	15	Plug Matrix	A1462-ND†	.40	31.32	1-480710-0
		Cap Matrix	A1463-ND	.35	27.95	1-480711-0
Universal MATE-N-LOK® UL 94V-0 Connectors Nylon, White Color (Contacts Sold Separately)						
1	1	Plug In-Line	A14276-ND	.24	19.22	350865-1
		Cap In-Line	A14277-ND	.24	19.22	350866-1
	2	Plug In-Line	A14278-ND	.28	22.43	350777-1
		Cap In-Line	A14279-ND	.33	25.88	350778-1
	3	Plug In-Line	A14280-ND	.28	21.91	350766-1
		Cap In-Line	A14281-ND	.33	26.40	350767-1
	4	Plug In-Line	A14282-ND	.29	22.85	350779-1
		Cap In-Line	A14283-ND	.37	28.93	350780-1
	5	Plug In-Line	A14284-ND	.31	24.41	350809-1
		Cap In-Line	A14285-ND	.37	29.50	350810-1
	6	Plug In-Line	A14286-ND	.66	51.88	640581-1
		Cap In-Line	A14287-ND*	1.71	138.08	926307-3
		Plug Matrix	A14288-ND	.41	32.78	350715-1
		Cap Matrix	A14289-ND	.37	28.89	350781-1
	8	Plug In-Line	A14290-ND	.56	42.73	640582-1
		Cap In-Line	A14291-ND*	2.06	166.61	926308-3
	9	Plug Matrix	A14292-ND	.36	28.43	350720-1
		Cap Matrix	A14293-ND	.44	35.09	350782-1
	12	Plug Matrix	A14294-ND	.46	36.30	350735-1
		Cap Matrix	A14295-ND	.54	42.98	350783-1
	15	Plug Matrix	A14296-ND	.59	46.64	350736-1
		Cap Matrix	A14297-ND	.90	73.15	350784-1
Keying Plug 94V-2			A14304-ND	.19	15.35	1-640415-1
Keying Plug 94V-0			A14305-ND	.20	15.99	1-640415-0

† Black * Brick Red

Fig.	No. of Circuits	Description	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Test Connectors (with spring loaded contacts)						
2A	2	Plug In-Line	A25328-ND	25.18	20.39	350848-2
		Cap In-Line	A25331-ND	26.50	21.46	350849-2
	3	Plug In-Line	A25731-ND	36.29	29.38	350848-3
		Cap In-Line	A25732-ND	34.48	27.92	350849-3
	4	Plug In-Line	A25330-ND	43.91	35.55	350848-4
		Cap In-Line	A25329-ND	43.89	35.53	350849-4
	5	Plug In-Line	A25733-ND	56.20	45.50	350848-5
		Cap In-Line	A25734-ND	56.32	45.60	350849-5
2B	6	Plug Matrix	A25735-ND	68.02	55.07	350848-6
		Cap Matrix	A25736-ND	68.10	55.14	350849-6

Strain Reliefs (Two strain reliefs required per housing)

Fig.	No. of Circuits	Description	Insert Supplied	Wire Bundle Size (Inch)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Enclosed Plug Housing Strain Relief, UL94V-0 — Nylon, White Color								
3	2	In-Line, Nylon	Yes	.040-.190	A14338-ND	.90	.74	640713-1
			No	.200-.350	A25162-ND	.90	.74	640713-2
	3	In-Line, Nylon	Yes	.040-.190	A14339-ND	.84	.67	640714-1
			No	.200-.350	A25163-ND	.73	.60	641945-1
	4	In-Line, Nylon	Yes	.040-.190	A14340-ND	.92	.75	641776-1
			No	.200-.350	A25164-ND	.79	.65	641776-2
	5	In-Line, Nylon	Yes	.040-.190	A14341-ND	.94	.76	643030-1
			No	.200-.350	A25165-ND	.94	.76	643030-4
	6	In-Line, Nylon	Yes	.040-.190	A14342-ND†	.95	.77	643313-1
			No	.200-.350	A25166-ND†	.95	.77	643313-2
	8	In-Line, Nylon	Yes	.040-.190	A14343-ND†	.97	.79	643314-1
	6	Matrix, Nylon	Yes	.120-.650	A14344-ND	.87	.69	640715-1
	9			.120-.650	A14345-ND	.90	.72	640716-1
	12			.150-.750	A14346-ND	1.01	.82	640717-1
	15			.200-.850	A14347-ND	1.00	.80	640718-1
Enclosed Plug Housing Strain Relief, UL94V-2 — Nylon, Natural Color								
3	2	In-Line, Nylon	Yes	.040-.190	A14348-ND	.81	.65	1-640719-0
			No	.200-.350	A25167-ND	1.03	.84	1-640719-1
	3	In-Line, Nylon	Yes	.040-.190	A14349-ND	.82	.67	1-640720-0
			No	.200-.350	A14350-ND	1.26	1.13	641763-1
	4	In-Line, Nylon	Yes	.040-.190	A25168-ND	.83	.68	641775-1
			No	.200-.350	A14351-ND	1.35	1.22	641775-2
	5	In-Line, Nylon	Yes	.040-.190	A25169-ND	.84	.69	643030-3
			No	.200-.350	A14352-ND	.84	.69	643030-2
	6	In-Line, Nylon	Yes	.040-.190	A25324-ND†	.85	.70	643585-1
			No	.200-.350	A25325-ND†	.85	.70	643585-2
	6	Matrix, Nylon	Yes	.120-.650	A14353-ND	.85	.68	1-640721-0
	9			.120-.650	A14354-ND	.88	.72	1-640722-0
	12			.150-.750	A14355-ND	.91	.74	1-640723-0
	15			.200-.850	A14356-ND	.94	.77	1-640724-0

† Strain relief for 6 and 8 position in-line fits plug housings only.

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Open Plug Housing Strain Reliefs					
UL94V-0 — Nylon, White Color					
4	2, 3, 4, 5, 6 and 8, In-Line	A14336-ND	.50	.41	350811-1
	6, 9, 12 and 15, Matrix	A14337-ND	.57	.47	350812-1
UL94V-2 — Nylon, Natural Color					
4	2, 3, 4, 5, 6 and 8, In-Line	A25326-ND	.45	.37	1-350589-0
	6, 9, 12 and 15, Matrix	A25327-ND	.52	.42	1-350590-0

Cap Housing Adapters

Fig.	Description	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Adapters for UL94V-0 Rated Strain Reliefs — White					
5	For all Positions except 2, 6, and 8 Circuits Cap Housing	A24724-ND	.47	.42	641778-1
	Adapter w/out NIBS for all Positions except 2, 6, and 8 Circuits Cap Housings	A24725-ND	.47	.42	641778-2
6	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24726-ND	.47	.42	643182-2
Adapters for UL94V-2 Rated Strain Reliefs — Natural Color					
5	Cap Housing Adapter for all Positions except 2, 6, and 8 Circuits Cap Housings	A24903-ND	.46	.40	641777-1
6	Cap Housing Adapter for 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24904-ND	.61	.53	643182-1

Splash Proof Seals — Fig. 7

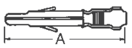
No. of Circuits	Interface Seal Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.	No. of Circuits	Wire Seal Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
2	A25390-ND	.20	.17	794269-1	2	A25397-ND	.26	.22	794270-1
3	A25391-ND	.28	.23	794271-1	3	A25398-ND	.36	.30	794272-1
4	A25392-ND	.51	.41	794273-1	4	A25399-ND	.75	.61	794274-1
6	A25393-ND	.41	.34	794275-1	6	A25400-ND	.60	.49	794276-1
9	A25394-ND	.67	.55	794277-1	9	A25401-ND	.94	.76	794278-1
12	A25395-ND	.93	.76	794279-1	12	A25402-ND	1.72	1.39	794280-1
15	A25396-ND	1.56	1.27	794281-1	15	A25403-ND	2.23	1.81	794282-1
Keying Plug, Nylon UL94V-0						A25156-ND	3.22/10		770377-1

(Continued)

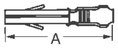
Contacts

Contact Plating:
A: Phosphor bronze pre-tin plated **B:** Brass pre-tin plated **C:** Gold Finish: Plated with .000030" (.000762mm) min. gold in mating area and inside wire barrel over .000050" (.00127mm) min. nickel underplate on entire contact **D:** Select Gold Finish: Plated with .000030" (.000762mm) min. gold in mating area over .000050" (.00127mm) min. nickel underplate on entire contact

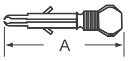
Pin Connector



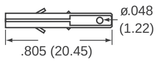
Socket Connector



Split Pin



Programmable Connector Contact



Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing				Digi-Key Part No.	Strip Tape & Reel		AMP Part No.
						10	100			10	100	500	1,000		Size	Pricing	
Pin Contacts																	
30-26	.032 - .057 (.813-1.45)	Brass	B	.790 (20.06)	A25405-ND	1.18	7.91	770672-1	A25405CT-ND	—	—	—	71.55	A25405TR-ND	8,000	42.93/M	350924-1
		Phos. Brz.	C		A25353-ND	11.73	78.94	770672-6	—	—	—	—	—	—	—	—	—
24-18	.040 - .100 (1.02-2.54)	Brass	B	.790 (20.06)	A14298-ND	.89	5.40	350690-1	—	—	—	—	—	—	—	—	—
		Brass	C		A14299-ND	7.47	45.08	350690-2	A14299CT-ND	—	—	—	515.60	A14299TR-ND	7,000	309.36/M	350561-2
		Brass	D		A25359-ND	4.55	30.59	350690-7	A25359CT-ND	—	—	—	255.15	A25359TR-ND	7,000	153.09/M	350561-7
		Phos. Brz.	A		A25362-ND	1.24	8.35	350690-3	A25362CT-ND	—	—	—	53.60	A25362TR-ND	7,000	32.16/M	350561-3
20-14	.060 - .130 (1.52-3.30)	Brass	B	.790 (20.06)	A14300-ND§	.87	5.88	350547-1	—	—	—	—	—	—	—	—	—
		Brass	C		A14301-ND§	7.94	53.44	350547-2	A14301CT-ND§	—	—	—	515.60	A14301TR-ND§	5,000	309.36/M	350218-2
		Brass	D		A25341-ND§	4.56	30.65	350547-7	—	—	—	—	—	—	—	—	—
		Phos. Brz.	A		A25343-ND§	1.24	8.35	350547-3	—	—	—	—	—	—	—	—	—
		Phos. Brz.	D		A25346-ND§	9.02	60.65	350547-6	A25346CT-ND§	—	—	—	389.10	A25346TR-ND§	5,000	233.46/M	350218-6
	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	A14303-ND	1.10	7.39	350552-1	—	—	—	—	—	—	—	—	—
		Brass	C		A25368-ND	7.24	48.73	350552-2	A25368CT-ND	—	—	295.46	537.20	A25368TR-ND	2,500	429.76/M	350538-2
		Brass	D		A25371-ND	5.89	39.62	350552-7	A25371CT-ND	—	—	195.00	354.55	A25371TR-ND	2,500	283.64/M	350538-7
		Phos. Brz.	A		A25374-ND	1.62	10.91	350552-3	A25374CT-ND	—	—	45.09	81.98	A25374TR-ND	2,500	65.58/M	350538-3
		Phos. Brz.	D		A25408-ND	10.97	73.77	350552-6	A25408CT-ND	—	—	278.16	505.75	A25408TR-ND	2,500	404.60/M	350538-6
18-14	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	—	—	—	—	A25378CT-ND	.68	5.95	25.30	37.65	A25378TR-ND	2,500	38.62/M	350873-1
		Phos. Brz.	A		A25380-ND	1.51	10.19	350918-3	—	—	—	—	—	—	—	—	—
12-10	.200 max. (5.08)	Phos. Brz.	A	.810 (20.57)	A25382-ND†	2.43	16.37	640309-3	—	—	—	—	—	—	—	—	—
			D		A25386-ND†	10.92	73.49	640309-6	A25386CT-ND†	—	—	—	579.93	A25386TR-ND†	3,000	463.94/M	350922-6
Socket Contacts																	
30-26	.032 - .057 (.813-1.45)	Brass	B	.760 (19.30)	A25352-ND	1.33	8.94	770673-1	A25352CT-ND	—	—	—	49.80	A25352TR-ND	8,000	29.88/M	350925-1
24-18	.040 - .100 (1.02-2.54)	Brass	B	.760 (19.30)	A1437-ND*	.95	6.38	350689-1	—	—	—	—	—	—	—	—	—
		Brass	C		A25357-ND	7.34	49.39	640347-2	A25357CT-ND	—	—	290.77	528.68	A25357TR-ND	7,500	317.21/M	350851-2
		Brass	C		A1439-ND*	7.65	46.18	350689-2	A1439CT-ND*	—	—	276.25	502.28	A1439TR-ND*	7,500	301.37/M	350570-2
		Brass	D		A25360-ND*	4.61	31.00	350689-7	A25360CT-ND	—	—	141.97	258.13	A25360TR-ND	7,500	154.88/M	350851-7
		Phos. Brz.	A		A25363-ND*	1.17	7.88	350689-3	A25363CT-ND*	—	—	28.04	50.98	A25363TR-ND*	7,500	30.59/M	350570-3
		Phos. Brz.	D		—	—	—	—	A25364CT-ND*	5.62	49.43	210.26	312.98	A25364TR-ND*	7,500	240.76/M	350570-6
20-14	.060 - .130 (1.52-3.30)	Brass	B	.760 (19.30)	A1441-ND§	.84	5.64	350550-1	—	—	—	—	—	—	—	—	—
		Brass	C		A1443-ND§	8.09	54.42	350550-2	A1443CT-ND§	—	—	—	490.20	A1443TR-ND§	5,000	294.12/M	350536-2
		Brass	D		A25342-ND§	4.56	30.65	350550-7	—	—	—	—	—	—	—	—	—
		Phos. Brz.	A		A25344-ND§	1.13	7.60	350550-3	—	—	—	—	—	—	—	—	—
		Phos. Brz.	D		A25347-ND§	7.92	53.29	350550-6	A25347CT-ND§	—	—	—	410.73	A25347TR-ND§	5,000	246.44/M	350536-6
	.130 - .200 (3.30-5.08)	Brass	B	.780 (19.81)	A14302-ND	1.24	8.36	350551-1	—	—	—	—	—	—	—	—	—
		Brass	C		A25369-ND	8.09	54.45	350551-2	A25369CT-ND	—	—	337.54	613.70	A25369TR-ND	2,500	490.96/M	350537-2
		Brass	D		A25372-ND	5.97	40.19	350551-7	A25372CT-ND	—	—	191.36	347.93	A25372TR-ND	2,500	278.34/M	350537-7
		Phos. Brz.	A		A25375-ND	1.62	10.91	350551-3	A25375CT-ND	—	—	42.02	76.40	A25375TR-ND	2,500	61.12/M	350537-3
		Phos. Brz.	D		A25409-ND	11.05	74.35	350551-6	A25409CT-ND	—	—	210.65	383.00	A25409TR-ND	2,500	306.40/M	350537-6
18-14	.130 - .200 (3.30-5.08)	Brass	B	.780 (19.81)	—	—	—	—	A25379CT-ND	.68	5.95	25.30	41.52	A25379TR-ND	2,500	38.62/M	350874-1
		Phos. Brz.	A		A25381-ND	1.51	10.19	350919-3	—	—	—	—	—	—	—	—	—
12-10	.200 max. (5.08)	Phos. Brz.	A	.780 (19.81)	A25383-ND†	2.43	16.37	640310-3	—								
			D		A25387-ND†	11.07	74.50	640310-6	A25387CT-ND†	—	—	323.36	587.93	A25387TR-ND†	2,500	470.34/M	350923-68
Split Pin Contacts																	
24-18	.040 - .100 (1.02-2.54)	Brass	B	.790 (20.06)	A1436-ND	1.02	6.86	350706-1	—	—	—	—	—	—	—	—	—
			C		A1438-ND	7.12	47.88	350706-2	A1438CT-ND	—	—	—	555.90	A1438TR-ND	7,000	333.54/M	350699-2
			D		A25334-ND	5.18	34.86	350706-7	A25334CT-ND	—	—	—	267.60	A25334TR-ND	7,000	160.56/M	350699-7
20-14	.060 - .130 (1.52-3.30)	Brass	B	.790 (20.06)	A1440-ND§	.95	6.38	350705-1	—	—	—	—	—	—	—	—	—
			C		A1442-ND§	7.12	47.88	350705-2	—	—	—	—	—	—	—	—	—
			D		A25336-ND§	5.18	34.86	350705-7	A25336CT-ND§	—	—	—	284.30	A25336TR-ND§	5,000	170.58/M	350687-7
	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	A25338-ND	1.28	8.59	350707-1	A25338CT-ND	—	—	27.69	50.35	A25338TR-ND	2,500	40.28/M	350700-1
			C		A25694-ND	7.16	48.19	350707-2	—	—	—	—	—	—	—	—	—
			D		A25730-ND	6.26	42.14	350707-7	—	—	—	—	—	—	—	—	—
Grounding Pin																	
20-14	.060 - .130 (1.52-3.30)	Brass	B	—	A25339-ND§	1.24	8.36	350669-1	—	—	—	—	—	—	—	—	—
Sealing Plug																	
Keying Plug, UL94V-0 Nylon					A25156-ND	3.22	21.67	770377-1	—	—	—	—	—	—	—	—	—
Programmable Connector Contact																	
Socket w/110 Series Special FASTON Tab, Brass - Pre-Tin					A25340-ND‡	2.77	18.60	350877-1	—	—	—	—	—	—	—	—	—

† There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing. Use of strain relief is recommended with these contacts. * Socket Contact - .010 (.254) stock thickness § Can be used with Splash Proof Seals ‡ This contact will accept a 110 Series FASTON receptacle Part No. A27941TR-ND (350871-1) allows simple field wiring or wiring changes

Tools and Die Sets

A25206-ND (58382-1)	Latch Disengaging Tool	**$84.36 each**
A1445-ND (318851-1)	Contact Extraction Tool	**$35.40 each**
A9998-ND (91002-1)	Contact Insertion Tool	**$16.78 each**
A9907-ND (91500-1)	Universal Mate-N-Lok Crimp Tool for 20-14AWG	**$426.93 each**
A9996-ND (354940-1)	PRO-CRIMPER II Hand Tool without Dies	**$66.00 each**
A9944-ND (90548-2)	PRO-CRIMPER II Die Set for 24-18AWG	**$100.50 each**
A9943-ND (90546-2)	PRO-CRIMPER II Die Set for 20-14AWG (.060"-.130" Ins. Dia.)	**$100.50 each**
A9924-ND (90547-2)	PRO-CRIMPER II Die Set for 20-14AWG (130"-.200"Ins. Dia.)	**$100.50 each**
A9923-ND (58530-2)	PRO-CRIMPER II Die Set for 12-10AWG	**$127.50 each**
A9947-ND (91510-1)	CERTI-CRIMP Hand tool with Die for 24-18AWG	**$504.00 each**
A9945-ND (91508-1)	CERTI-CRIMP Hand Tool with Die for 20-18AWG	**$504.00 each**
A9946-ND (91506-1)	CERTI-CRIMP Hand Tool with Die for 16-14AWG	**$481.50 each**
A28006-ND (69710-1)	CERTI-CRIMP Hand Tool without Die	**$358.50 each**
A25349-ND (58380-1)	CERTI-CRIMP Die Set for 12AWG	**$469.35 each**
A25350-ND (58380-2)	CERTI-CRIMP Die Set for 10AWG	**$469.35 each**
A25159-ND (90548-1)	PRO-CRIMPER with Die for 24-18AWG	**$133.50 each**
A25160-ND (90546-1)	PRO-CRIMPER with Die for 20-14AWG (.060"-.130" Ins. Dia.)	**$133.50 each**
A25161-ND (90547-1)	PRO-CRIMPER with Die for 20-14AWG (.130"-.200" Ins. Dia.)	**$133.50 each**

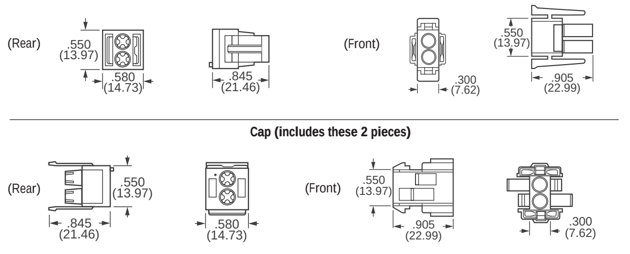
Universal MATE-N-LOK II® Connectors - Soft Shell

Housing Kits

Product Facts: • Ultimate reliability • Pins and sockets can be intermixed in the same housing • Available in 2 thru 15 Circuit sizes for free hanging or panel mount wire-to-wire connection • Polarized housings available in UL94V-0 flammability rated material • Contacts are on .250" (6.35mm) centerline spacing • UL Recognized: E28476 • Certified CSA: LR 16455-113 • Passed test by VDE under their Test Report No. 4751-1431-4016/A8E

Performance Characteristics: • Dielectric Withstanding Voltage: 5.0 KVAC or 10 KVDC between adjacent circuits • Insulation Resistance: 1000 megohms minimum between adjacent circuits • Voltage Rating: 600V AC or DC • Contact Retention: 35 lb. min. per contact • Durability: 50 cycles, mating and unmating

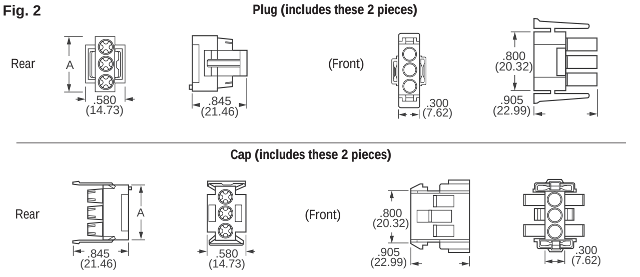
Fig. 1



Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

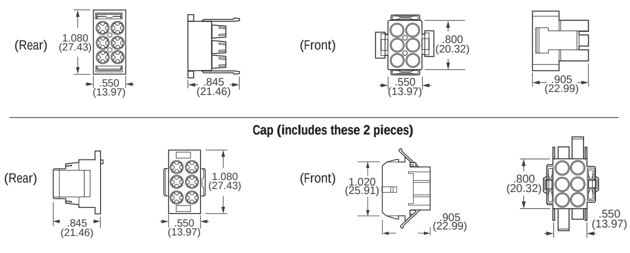
Fig. 2



Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

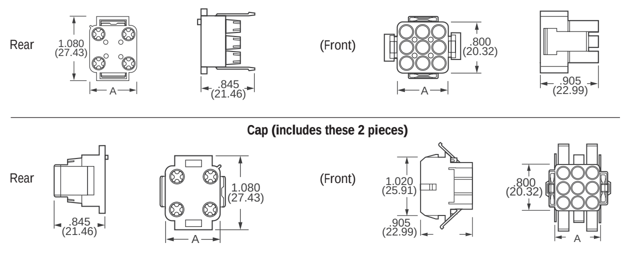
Fig. 3



Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig. 4



Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig.	Type	No. of Circuits	Descrip-tion	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
1	In-Line	2	Plug	—	A14240-ND	.46	.37	770017-1
			Cap	—	A14247-ND	.47	.38	770024-1
2	In-Line	3	Plug	.800 (20.32)	A14241-ND	.51	.41	770018-1
		3	Cap	.800 (20.32)	A14248-ND	.56	.45	770025-1
		4	Plug	1.050 (26.67)	A14242-ND	.57	.46	770019-1
		4	Cap	1.050 (26.67)	A14249-ND	.61	.49	770026-1
		5	Plug	1.300 (33.02)	A25155-ND	.82	.67	770016-1
3	Matrix	6	Plug	—	A14243-ND	.65	.52	770020-1
			Cap	—	A14250-ND	.64	.51	770027-1

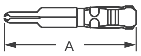
Fig.	Type	No. of Circuits	Descrip-tion	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
4	Matrix	9	Plug	.800 (20.32)	A14244-ND	.70	.56	770021-1
		9	Cap	.800 (20.32)	A14251-ND	.69	.55	770028-1
		12	Plug	1.050 (26.67)	A14245-ND	1.24	1.01	770022-1
		12	Cap	1.050 (26.67)	A14252-ND	1.20	.97	770029-1
		15	Plug	1.300 (33.02)	A14246-ND	1.02	.81	770023-1
		15	Cap	1.300 (33.02)	A14253-ND	.97	.77	770030-1
Keying Plug, Nylon UL94V-0					A25156-ND	3.22/10	21.67/100	770377-1

Contacts

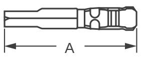
Contact Plating:

A: Phosphor bronze pre-tin plated B: Brass pre-tin plated C: Duplex Finish - Plated with .000030" (.000762mm) min. gold in mating area and .000050" (.00127mm) min. tin-lead in crimp area over .000050" (.00127mm) min. nickel underplate on entire contact

Pin Connector



Socket Connector



Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 10	Cut Strip Pricing 100	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel Size	Strip Tape & Reel Pricing	AMP Part No.
Split Pin Contacts																	
24-18	.040-.100 (1.02-2.54)	Brass	B	1.005 (25.53)	A14254-ND	1.47	9.86	770252-1	A14254CT-ND	—	—	—	60.33	A14254TR-ND	5,000	36.20/M	770009-1
			C		A14255-ND	6.72	45.22	770252-2	A14255CT-ND	—	—	—	324.85	A14255TR-ND	5,000	194.91/M	770009-2
20-14	.060-.130 (1.52-3.30)	Brass	B	1.005 (25.53)	A14256-ND	1.47	9.86	770250-1	—	—	—	—	—	—	—	—	—
			C		A14257-ND	6.72	45.22	770250-2	A14257CT-ND	—	—	—	328.00	A14257TR-ND	4,000	196.80/M	770007-2
20-14	.130-.200 (3.30-5.08)	Brass	B	.995 (25.27)	A14258-ND	1.93	12.99	770248-1	A14258CT-ND	—	—	48.92	88.95	A14258TR-ND	2,500	71.16/M	770005-1
		Brass	C		A14259-ND	8.15	54.82	770248-2	A14259CT-ND	—	—	228.40	415.28	A14259TR-ND	2,500	332.22/M	770005-2
		Phos. Brz.	C		—	—	—	—	A25181CT-ND	6.52	57.35	243.94	363.11	A25181TR-ND	2,500	372.42/M	770005-4
12-10	.200 max. † (5.08 max.)	Phos. Brz.	A	1.005 (25.53)	A14260-ND	3.09	20.78	770246-3	A14260CT-ND	—	—	—	169.20	A14260TR-ND	3,000	135.36/M	770003-3
			C		A14261-ND	14.66	98.62	770246-4	A14261CT-ND	—	—	—	708.75	A14261TR-ND	3,000	567.00/M	770003-4
Socket Contacts																	
24-18	.040-.100 (1.02-2.54)	Phos. Brz.	A	.980 (24.90)	A14262-ND	1.70	11.42	770253-3	A14262CT-ND	—	—	—	79.95	A14262TR-ND	5,000	47.97/M	770010-3
			C		A14263-ND	10.49	70.55	770253-4	A14263CT-ND	—	—	—	467.28	A14263TR-ND	5,000	280.37/M	770010-4
20-14	.060-.130 (1.52-3.30)	Phos. Brz.	A	.980 (24.90)	A14264-ND	1.79	12.01	770251-3	—	—	—	—	—	—	—	—	—
			C		A14265-ND	11.04	74.27	770251-4	A14265CT-ND	—	—	—	479.40	A14265TR-ND	4,000	287.64/M	770008-4
	.130-.200 (3.30-5.08)	Phos. Brz.	A	.970 (24.64)	A14266-ND	2.33	15.71	770249-3	A14266CT-ND	—	—	62.63	113.88	A14266TR-ND	2,500	91.10/M	770006-3
			C		A14267-ND	13.42	90.28	770249-4	A14267CT-ND	—	—	323.06	587.38	A14267TR-ND	2,500	469.90/M	770006-4
12-10	.200 max. † (5.08 max.)	Phos. Brz.	A	.980 (24.90)	A14268-ND	3.09	20.78	770247-3	A14268CT-ND	—	—	—	169.20	A14268TR-ND	3,000	135.36/M	770004-3
			C		A14269-ND	14.86	99.98	770247-4	A14269CT-ND	—	—	—	706.48	A14269TR-ND	3,000	565.18/M	770004-4
Grounding Pins (mate first, break last, not for interrupting current)																	
20-14	.060-.130 (1.52-3.30)	Brass	B	—	A25188-ND	2.23	15.03	770254-1	—	—	—	—	—	—	—	—	—
			C		A25443-ND	13.37	89.92	770254-2	—	—	—	—	—	—	—	—	—
20-14	.130-.200 (3.30-5.08)	Brass	B	—	A25737-ND	2.23	15.03	770255-1	—	—	—	—	—	—	—	—	—
			C		A25738-ND	13.37	89.92	770255-2	—	—	—	—	—	—	—	—	—

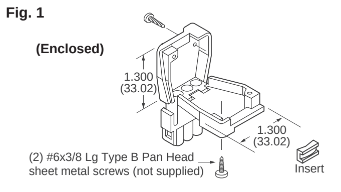
† There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing. Use of strain relief is recommended with these contacts.

(Continued)

Strain Relief and Adapters — UL94V-0 White Nylon

Fig.	No. of Circuits	Descrip-tion	Insert Supplied	Wire Bundle Size - Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Enclosed Plug Housing Strain Relief (Two strain reliefs required per housing)								
1	2	In-Line	Yes	.040-.190 (1.02-4.83)	A14338-ND	.90	.74	640713-1
			No	.200-.350 (5.08-8.89)	A25162-ND	.90	.74	640713-2
	3	In-Line	Yes	.040-.190 (1.02-4.83)	A14339-ND	.84	.67	640714-1
			No	.200-.350 (5.08-8.89)	A25163-ND	.73	.60	641945-1
	4	In-Line	Yes	.040-.190 (1.02-4.83)	A14340-ND	.92	.75	641776-1
			No		A25164-ND	.79	.65	641776-2
	5	In-Line	Yes	.040-.190 (1.02-4.83)	A14341-ND	.94	.76	643030-1
			No	.200-.350 (5.08-8.89)	A25165-ND	.94	.76	643030-4
	6	Matrix	Yes	.120-.650 (3.05-16.51)	A14344-ND	.87	.69	640715-1
	9			.120-.650 (3.05-16.51)	A14345-ND	.90	.72	640716-1
	12			.150-.750 (3.81-19.05)	A14346-ND	1.01	.82	640717-1
	15			.200-.850 (5.08-21.59)	A14347-ND	1.00	.80	640718-1

Fig. 1



(Enclosed)
1.300
(33.02)
1.300
(33.02)
(2) #6x3/8 Lg Type B Pan Head
sheet metal screws (not supplied)
Insert

Fig. 2

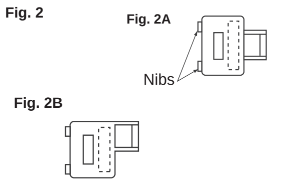


Fig.	Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Cap Housing Adapters					
2A	For all Positions except 2, 6, and 8 Circuits Cap Housing	A24724-ND	.47	.42	641778-1
	Adapter w/out NIBS for all Positions except 2, 6, and 8 Circuits Cap Housings	A24725-ND	.47	.42	641778-2
2B	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24726-ND	.47	.42	643182-2

Tools and Die Sets

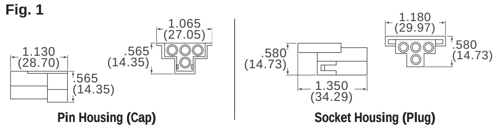
A25206-ND (58382-1)	Latch Disengaging Tool	**$84.36 each**
A1445-ND (318851-1)	Contact Extraction Tool	**$35.40 each**
A1444-ND (455830-1)	Contact Insertion Tool (Larger Than .090" Ins. Dia.)	**$27.20 each**
A9998-ND (91002-1)	Contact Insertion Tool (.090" Max. Ins. Dia.)	**$16.78 each**
A9996-ND (354940-1)	PRO-CRIMPER II Hand Tool without Dies	**$66.00 each**
A9944-ND (90548-2)	PRO-CRIMPER II Die Set for 24-18AWG	**$100.50 each**
A9943-ND (90546-2)	PRO-CRIMPER II Die Set for 20-14AWG (.060"-.130" Ins. Dia.)	**$100.50 each**
A9924-ND (90547-2)	PRO-CRIMPER II Die Set for 20-14AWG (130"-.200"Ins. Dia.)	**$100.50 each**
A9923-ND (58530-2)	PRO-CRIMPER II Die Set for 12-10AWG	**$127.50 each**
A9947-ND (91510-1)	CERTI-CRIMP Hand Tool with Die for 24-18AWG	**$504.00 each**
A9945-ND (91508-1)	CERTI-CRIMP Hand Tool with Die for 20-18AWG	**$504.00 each**
A9946-ND (91506-1)	CERTI-CRIMP Hand Tool with Die for 16-14AWG	**$481.50 each**
A28006-ND (69710-1)	CERTI-CRIMP Hand Tool without Die	**$358.50 each**
A25349-ND (58380-1)	CERTI-CRIMP Die Set for 12AWG	**$469.35 each**
A25350-ND (58380-2)	CERTI-CRIMP Die Set for 10AWG	**$469.35 each**
A25159-ND (90548-1)	PRO-CRIMPER with Die for 24-18AWG	**$133.50 each**
A25160-ND (90546-1)	PRO-CRIMPER with Die for 20-14AWG (.060"-.130" Ins. Dia.)	**$133.50 each**
A25161-ND (90547-1)	PRO-CRIMPER with Die for 20-14AWG (.130"-.200" Ins. Dia.)	**$133.50 each**

.140" (3.56mm) Connector Housing Kits

Product Facts:
- .240 Centerline spacing
- Nylon, natural color and flammability rating UL94V-2
- Recognized under the component program of UL File No. E28476. Certified by Canadian Standards Assoc. File No. LR 7189A-381

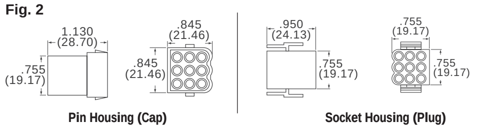
Performance Characteristics:
- Dielectric Withstanding Voltage: 3.0KVAC between adjacent circuits
- Insulation Resistance: 1000 megohms minimum initial between adjacent circuits
- Voltage Rating: 250V AC or DC
- Durability: 25 cycles, mating and unmating
- Thermal Shock: -55° C to +85° C
- Wire Size: 20-10 AWG

Fig. 1



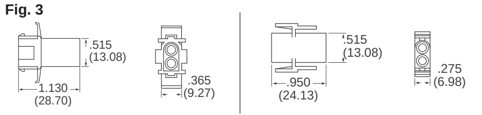
Pin Housing (Cap)　Socket Housing (Plug)

Fig. 2



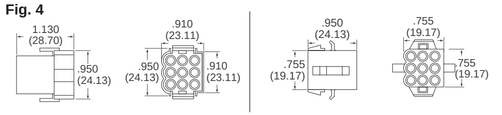
Pin Housing (Cap)　Socket Housing (Plug)

Fig. 3



Pin Housing (Cap)　Socket Housing (Plug)

Fig. 4



Pin Housing (Cap)　Socket Housing (Plug)

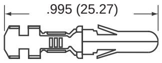
Fig.	Type	No. of Circuits	Description	Digi-Key Part No.	Price Each 10	50	100	AMP Part No.
Free Hanging Housing								
1	Matrix	4	Cap	A25464-ND	1.46	1.13	.93	1-480512-0
			Plug	A25465-ND	1.56	1.21	1.00	1-480510-0
2	Matrix	9	Cap	A25466-ND	1.68	1.30	1.07	1-480586-0
			Plug	A25467-ND	1.68	1.31	1.07	1-480585-0

Fig.	Type	No. of Circuits	Description	Digi-Key Part No.	Price Each 10	50	100	AMP Part No.
Panel Mount Housing								
3	In-line	2	Cap	A25468-ND	.37	.29	.24	1-350345-0
			Plug	A25469-ND	.37	.29	.24	1-350344-0
		3	Cap	A25470-ND	.44	.34	.28	1-350347-0
			Plug	A25471-ND	.44	.34	.28	1-350346-0
4	Matrix	9	Cap	A25472-ND	.93	.72	.59	1-480673-0
			Plug	A25473-ND	.93	.72	.59	1-480672-0

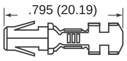
Contacts

Specification: • Pin diameter: .140" (3.57mm) • Stock thickness: .014" (.357mm)
Contact Plating: A: Phosphor bronze pre-tin plated **B:** Brass pre-tin plated

Pin Connector



Socket Connector



Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	50	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 10	100	500	1,000	Digi-Key Part No.	Strip Tape & Reel Size	Pricing	AMP Part No.
Pin Contacts																	
20-14	.100-.180	Brass	B	A25454-ND	2.27	8.81	14.49	350389-1	A25454CT-ND	—	—	46.78	85.05	A25454TR-ND	2,500	68.04/M	61627-1
	(2.54-4.5)	Phos. Brz.	A	—	—	—	—	—	A25456CT-ND	2.18	19.19	81.64	121.52	A25456TR-ND	2,500	124.64/M	61627-2
14-10	.100-.180	Brass	B	A25460-ND	2.27	8.81	14.49	350391-1	A25460CT-ND	—	—	47.23	85.88	A25460TR-ND	2,500	68.70/M	350201-1
	(2.54-4.5)	Phos.Brz.	A	A25751-ND	3.51	13.62	22.40	350391-2	A25751CT-ND	—	—	85.69	155.80	A25751TR-ND	2,500	124.64/M	350201-2
Socket Contacts																	
20-14	.100-.180	Brass	B	A25455-ND	2.02	7.82	12.86	350388-1	A25455CT-ND	—	—	38.76	70.48	A25455TR-ND	2,500	56.38/M	61626-1
	(2.54-4.5)	Phos. Brz.	A	—	—	—	—	—	A25457CT-ND	16.36	16.36	69.60	103.60	A25457TR-ND	2,500	106.26/M	61626-2
14-10	.100-.180	Brass	B	A25461-ND	2.02	7.82	12.86	350390-1	A25461CT-ND	—	—	38.10	69.28	A25461TR-ND	2,500	55.42/M	350200-1
	(2.54-4.5)	Phos. Brz.	A	A25752-ND	3.12	12.09	19.88	350390-2	A25752CT-ND	—	—	73.05	132.83	A25752TR-ND	2,500	106.26/M	350200-2
Tools																	
CERTI-CRIMP w/out Die Set for 14-10AWG				A28006-ND		358.50 each		69710-1	—	—	—	—	—	—	—	—	—
CERTI-CRIMP Die Set for 14-12AWG				A9915-ND		2217.60 each		58374-1	—	—	—	—	—	—	—	—	—
CERTI-CRIMP Die Set for 10AWG				A9914-ND		3507.53 each		58373-1	—	—	—	—	—	—	—	—	—
Contact Extraction Tool				A25474-ND		132.30 each		318845-1	—	—	—	—	—	—	—	—	—

Universal Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors)

Fig. 1
Housing: 94V-2 rating, nylon natural color. 94V-0 rating, white unless noted otherwise
Contact: Phosphor bronze. **Contact Plating:** **A:** Phosphor bronze pre-tin plated **B:** .000030" (0.000762mm) min. gold in mating area, matte tin-lead on solder tail end over .000050" (0.00127mm) min. nickel underplate on entire contact

Fig. 1A
In-Line Circuits

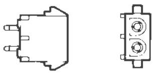


Fig. 1B
Multiple Row Circuits

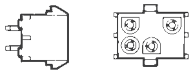


Fig. 2
Housing: 94V-2 rated, natural nylon.
Contact: Phosphor bronze. **Contact Plating:** **A:** Phosphor bronze pre-tin plated **B:** .000030" (0.000762 mm) min. gold in mating area, matte tin-lead on solder tail end over .000050" (0.00127 mm) min. nickel underplate on entire contact

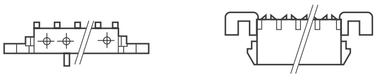
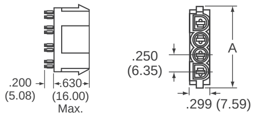


Fig. 3
Housing: PBT, black
Contact: Copper alloy, plated with tin-lead over nickel on entire contact



For MATE-N-LOK® Connectors

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each		AMP Part No.
					1	100	
Vertical Pin Headers— PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	6	A	UL94V-0	A25287-ND	1.30	1.06	641831-1
	8	A		A14321-ND	3.42	3.07	641828-1
1A	2	A	UL94V-2	A1466-ND	.25	.20	350428-1
	2	B		A1467-ND	1.14	.93	350428-2
	3	A		A1468-ND	.32	.26	350429-1
	3	B		A25286-ND	1.51	1.23	350429-2
	4	A		A1470-ND	.42	.33	350430-1
	4	B	UL94V-2	A1471-ND	1.99	1.62	350430-2
	5	A		A14317-ND	.64	.51	640466-1
	6	A		A14319-ND	2.30	2.07	641832-1
	8	A		A14320-ND	1.29	1.05	641825-1
1B	6	A	UL94V-2	A1472-ND	.41	.33	350431-1
	6	B		A1473-ND	2.81	2.28	350431-2
	9	A		A1474-ND	.75	.60	350432-1
	9	B		A1475-ND	3.95	3.20	350432-2
	12	A		A1476-ND	.90	.72	350433-1
	12	B	UL94V-2	A1477-ND	5.88	4.77	350433-2
	15	A		A1478-ND	.99	.79	350434-1
	15	B		A1479-ND	6.32	5.12	350434-2
Standard Tail Polarized (for .062" (1.57mm) thick PC board)							
1A	6	A	UL94V-0	A25293-ND	1.36	1.11	643408-1
	8			A25295-ND	1.59	1.29	643410-1
1A	2	A	UL94V-2	A25288-ND	.42	.34	641963-1
	3			A25289-ND	.46	.38	641965-1
	4			A25290-ND	.47	.39	641967-1
	5			A25291-ND	1.04	.85	643405-1
	6			A25292-ND	1.23	1.00	643407-1
1B	6	A	UL94V-2	A25294-ND	.79	.64	641969-1
	9			A25296-ND	.97	.79	641971-1
	12			A25297-ND	.94	.76	641973-1
	15			A25298-ND	1.46	1.19	641975-1
Long Tail — (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-2	A25299-ND	.42	.35	350582-1
	2	B		A25300-ND	1.09	.88	350582-2
	3	A		A25301-ND	.46	.38	350583-1
	3	B		A25302-ND	1.64	1.33	350583-2
	4	A		A25303-ND	.59	.48	350584-1
	4	B		A25304-ND	1.93	1.56	350584-2
	8	A		A25307-ND	1.35	1.10	770143-1
1B	6	A	UL94V-2	A25305-ND	.76	.62	350585-1
	6	B		A25306-ND	3.06	2.48	350585-2
	9	A		A25308-ND	.94	.77	350586-1
	9	B		A25309-ND	4.29	3.47	350586-2
	12	A		A25310-ND	1.35	1.10	350587-1
	15	A		A25311-ND	1.42	1.15	350588-1
Vertical Socket Headers— PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-2	A1490-ND	.35	.29	350759-4
		B		A1491-ND	.97	.79	350759-3
	3	A	UL94V-2	A1492-ND	.44	.36	350760-4
	3	B		A1493-ND	1.36	1.10	350760-3
	4	A		A1494-ND	.37	.30	350761-4
	4	B		A1495-ND	1.73	1.57	350761-3
	5	A		A25312-ND	.85	.69	640467-1
1B	6	A	UL94V-2	A1496-ND	.61	.49	350762-4
	6	B		A1497-ND	2.58	2.09	350762-3
	9	A		A1498-ND	.70	.56	350763-4
	12	A		A1200-ND	1.02	.81	350764-4
	12	B		A1201-ND	5.57	4.51	350764-3
	15	A		A1202-ND	1.59	1.29	350765-4
Standard Tail - Polarized (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-2	A25313-ND	.65	.54	643411-1
	3			A25314-ND	.48	.40	643413-1
	4			A25315-ND	.62	.50	643415-1
1B	6	A	UL94V-2	A25316-ND	.65	.53	643423-1
	9			A25317-ND	.86	.70	643425-1
	15			A25318-ND	1.66	1.35	643429-1
Long Tail (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-2	A25319-ND	.44	.36	350986-4
	4			A25320-ND	.63	.51	350988-4
1B	6	A	UL94V-2	A25321-ND	1.04	.84	350989-4
	9			A25322-ND	1.19	.97	350990-4
	15			A25323-ND	1.66	1.35	350992-4

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each		AMP Part No.
					1	100	
Right Angle Pin Header Assemblies - PCB Mount							
2	6	A	UL94V-0	A14311-ND	1.96	1.56	640583-1
	6	B		A25211-ND	5.10	4.13	640583-2
	8	A		A14312-ND	2.10	1.67	640584-1
	8	B		A14313-ND	5.25	4.16	640584-2
	4	A		A25210-ND	1.24	1.01	1-350948-0
Right Angle Socket Header Assemblies - PCB Mount							
2	6	A	UL94V-0	A25220-ND	3.42	2.78	643234-1
	6	B		A25221-ND	5.86	4.75	643234-2
	8	A		A25222-ND	4.41	3.57	643236-1
	8	B		A25223-ND	8.27	6.70	643236-2

For MATE-N-LOK® and MATE-N-LOK II® Connectors

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each		AMP Part No.
					1	100	
Vertical Pin Headers— PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-0	A14314-ND	.41	.33	350786-1
	3			A14315-ND	.50	.40	350789-1
	4			A14316-ND	.59	.47	350792-1
	5			A14318-ND	.95	.75	640900-1
1B	6	A	UL94V-0	A14322-ND	.97	.78	350711-1
	6	B		A14323-ND	2.78	2.21	350711-2
	9	A		A14324-ND	.91	.72	350712-1
	12	A		A14325-ND	1.10	.87	350713-1
	12	B		A14326-ND	3.76	2.98	350713-2
	15	A		A14327-ND	1.38	1.09	350714-1
Standard Tail Polarized (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-0	A25230-ND	.65	.53	641964-1
	2			A25284-ND†	.78	.64	1-641964-1
	3			A25231-ND	.72	.59	641966-1
	3			A25285-ND†	.56	.46	1-641966-1
	4			A25232-ND	.85	.69	641968-1
	5			A25233-ND	1.13	.92	643406-1
1B	6	A	UL94V-0	A25234-ND	1.05	.86	641970-1
	6	B		A25235-ND	3.63	2.94	641970-2
	9	A		A25236-ND	1.37	1.11	641972-1
	9	B		A25237-ND	4.59	3.72	641972-2
	12	A		A25238-ND	1.70	1.38	641974-1
	15	A		A25239-ND	1.43	1.16	641976-1
Long Tail (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-0	A25240-ND	.63	.51	350787-1
	2	B		A25241-ND	1.44	1.17	350787-2
	3	A		A25242-ND	.69	.56	350790-1
	3	B		A25243-ND	1.85	1.51	350790-2
	4	A		A25244-ND	.81	.66	350793-1
	4	B		A25245-ND	2.32	1.88	350793-2
1B	6	A	UL94V-0	A25246-ND	1.01	.82	350732-1
	6	B		A25247-ND	3.25	2.63	350732-2
	9	A		A25248-ND	1.19	.97	350742-1
	9	B		A25249-ND	4.41	3.58	350742-2
	12	A		A25250-ND	1.65	1.34	350737-1
	12	B	UL94V-0	A25251-ND	6.54	5.30	350737-2
	15	A		A25252-ND	1.67	1.35	350738-1
	15	B		A25253-ND	6.96	5.64	350738-2
Vertical Socket Headers— PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	3	A	UL94V-0	A14328-ND	.47	.38	350825-1
	4			A14329-ND	.64	.51	350826-1
1B	6	A	UL94V-0	A14330-ND	.87	.69	350827-1
	9	A		A14331-ND	.97	.77	350828-1
	12	A		A14332-ND	1.29	1.02	350829-1
	12	B		A14333-ND	5.91	4.79	350829-2
	15	A		A14334-ND	1.57	1.24	350830-1
	15	B		A14335-ND	6.22	5.04	350830-2
Standard Tail - Polarized (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-0	A25262-ND	.63	.52	643412-1
	3			A25263-ND	.73	.59	643414-1
	4			A25264-ND	.82	.67	643416-1
1B	6	A	UL94V-0	A25265-ND	.94	.77	643424-1
	6	B		A25266-ND	3.97	3.22	643424-2
	9	A		A25267-ND	1.07	.87	643426-1
	9	B		A25268-ND	3.03	2.46	643426-2
	12	A		A25269-ND	1.90	1.55	643428-1
	15	A		A25270-ND	2.00	1.62	643430-1

† Black in color

(Continued)

AMP tyco Electronics Authorized Distributor Universal Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors) *(Cont.)*

For MATE-N-LOK® and MATE-N-LOK II® Connectors (cont.)

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Long Tail (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-0	A25271-ND	.67	.55	350831-1
	3	A		A25272-ND	.73	.60	350832-1
	3	B		A25273-ND	1.86	1.51	350832-2
	4	A		A25274-ND	.86	.70	350833-1
	4	B		A25275-ND	2.35	1.91	350833-2
1B	6	A	UL94V-0	A25276-ND	1.07	.87	350834-1
	6	B		A25277-ND	3.14	2.55	350834-2
	9	A		A25278-ND	1.32	1.08	350835-1
	9	B		A25279-ND	4.30	3.49	350835-2
	12	A		A25280-ND	1.84	1.49	350836-1
	12	B	UL94V-0	A25281-ND	6.47	5.25	350836-2
	15	A		A25282-ND	1.85	1.50	350837-1
	15	B		A25283-ND	6.87	5.57	350837-2
Right Angle Pin Header Assemblies - PCB Mount							
2	2	A	UL94V-0	A14306-ND	1.03	.82	1-350942-0
	2	B		A1481-ND	1.80	1.43	2-350942-0
	3	A		A14307-ND	1.05	.83	1-350943-0
	3	B		A14308-ND	3.15	2.55	2-350943-0
	4	A		A1484-ND	1.07	.85	1-350944-0
	4	B	UL94V-0	A14309-ND	2.73	2.16	2-350944-0
2	5	A	UL94V-0	A1486-ND	1.29	1.02	1-350945-0
	5	B		A14310-ND	3.94	3.19	2-350945-0
	6	A	UL94V-2	A25212-ND	2.20	1.79	640587-1
Right Angle Socket Header Assemblies - PCB Mount							
2	2	A	UL94V-0	A25213-ND	1.64	1.33	643226-1
	3	A		A25214-ND	1.97	1.60	643228-1
	3	B		A25215-ND	3.26	2.64	643228-2
	4	A		A25216-ND	1.92	1.56	643230-1
		B		A25217-ND	4.33	3.51	643230-2
	5	A	UL94V-0	A25218-ND	3.00	2.44	643232-1
	5	B		A25219-ND	5.27	4.27	643232-2

For MATE-N-LOK II® Connectors

Fig.	No. of Circuits	Style	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Vertical Pin Headers with ACTION PIN Contacts — PCB Mount — UL94V-0 (Install in PC Board with arbor press)							
3	2	In-Line	.750 (19.05)	A25207-ND	4.85	3.93	173924-1
	3		1.000 (25.40)	A25208-ND	5.33	4.32	173925-1
	4		1.250 (31.75)	A25209-ND	5.71	4.63	173926-1

AMP tyco Electronics Authorized Distributor .062" (1.57mm) Soft-Shell Commercial Pin and Socket Connectors

Product Facts: • Polarized • Cavity Identification • Low contact-mating force • Detent and positive locking • Tin plating • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189

AMP .062" (1.57mm) Soft-Shell Commercial Pin and Socket connectors form a total system of economical commercial-grade connectors and offer compatibility with competitive soft shells.

General Specifications: • Thermal Shock: -55°C to +105°C • Temperature-Humidity Cycling: +25°C to +65°C at 90-95% RH • Durability: 50 mating cycles • Dielectric Withstanding Voltage: 1.0kVAC • Insulation Resistance: 1000 megohms minimum initial • Voltage Rating: 250VAC • Contact Rating: • Connector: 24-30AWG: .5 to 1.5 Amps, 18-24AWG: 1.5 to 6 Amps • Contacts may be used in either plug or receptacle housings.

Fig. 1 — 1 Circuit, In-line

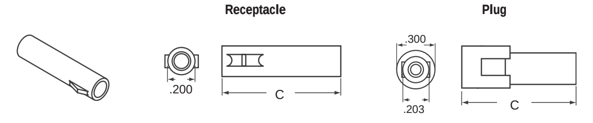


Fig. 2 — 2, 3, and 4 Circuit, In-line

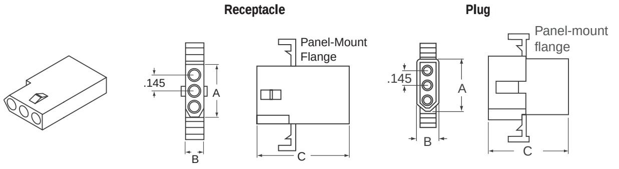
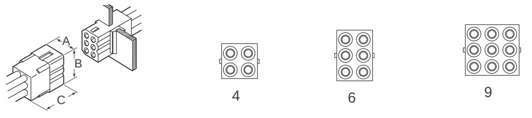


Fig. 3



Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Contact Insertion Tool	A9998-ND	16.78	91002-1
Contact Extraction Tool	A25483-ND	103.50	318831-1
Crimp Tool 24-30AWG with Die	A9819-ND	162.00	90870-1
Crimp Tool 18-24AWG with Die	A9820-ND	162.00	90869-1
PRO-CRIMPER Hand Tool without Die	A9996-ND	66.00	354940-1
PRO-CRIMPER Die Set 18-24AWG, Use with A9996	A9957-ND	105.00	90869-2
PRO-CRIMPER Die Set 24-30AWG, Use with A9996	A9956-ND	105.00	90870-2

Fig.	No of Circuits	Description	Dimension (Inch) A	B	C	Digi-Key Part No.	Pricing 10	50	AMP Part No.
Free-Hanging Housings									
1	1	Receptacle, with Detent, In-line	—	—	.785	A14001-ND	.96	3.74	770277-1
2	2	Receptacle, with Detent, In-line	.340	.199	.820	A14002-ND	1.50	4.30	770342-1
2	2	Receptacle, Positive, In-line	.340.	.199	.820	A25484-ND	3.99	15.49	770419-1
2	3	Receptacle, with Detent, In-line	.490	.199	.785	A14003-ND	2.17	8.42	770333-1
2	4	Receptacle, with Detent, In-line	.635	.199	.785	A14004-ND	7.06	27.40	770274-1
3	4	Receptacle, with Detent, Matrix	.345	.345	.878	A14005-ND	3.32	12.87	770442-1
3	6	Receptacle, with Detent, Matrix	.345	.495	.785	A14006-ND	3.11	12.08	770356-1
3	9	Receptacle, with Detent, Matrix	.490	.495	.790	A14007-ND	3.52	13.65	770429-1
1	1	Plug, with Detent, In-line	—	—	.750	A14008-ND	1.12	4.33	770278-1
2	2	Plug, with Detent, In-line	.440	.300	.780	A14009-ND	1.13	3.23	770340-1
2	3	Plug, with Detent, In-line	.590	.300	.750	A14010-ND	2.04	7.91	770331-1
2	4	Plug, with Detent, In-line	.733	.300	.750	A14011-ND	7.12	27.61	770275-1
3	4	Plug, with Detent, Matrix	.445	.445	.868	A14012-ND	3.32	12.87	770433-1
3	6	Plug, with Detent, Matrix	.445	.600	.750	A14013-ND	2.67	10.34	770355-1
3	9	Plug, with Detent, Matrix	.590	.600	.750	A14014-ND	3.09	12.00	770428-1
Panel Mount Housings — UL94V-2									
2	2	Receptacle, with Detent, In-line	.340	.199	.820	A25485-ND	4.05	15.73	770343-1
2	3	Receptacle, with Detent, In-line	.490	.199	.785	A25486-ND	4.86	18.84	770326-1
2	4	Receptacle, with Detent, In-line	.635	.199	.785	A25487-ND	7.06	27.40	770335-1
3	4	Receptacle, with Detent, Matrix	.345	.345	.878	A25488-ND	3.32	12.89	770441-1
3	6	Receptacle, with Detent, Matrix	.345	.495	.785	A25489-ND	7.24	28.08	770354-1
3	9	Receptacle, with Detent, Matrix	.490	.495	.790	A25758-ND	3.51	13.63	770427-1
2	2	Plug, with Detent, In-line	.440	.300	.780	A25490-ND	3.69	14.31	770341-1
2	3	Plug, with Detent, In-line	.590	.300	.750	A25491-ND	2.04	7.91	770332-1
2	4	Plug, with Detent, In-line	.733	.300	.750	A25759-ND	7.12	27.61	770334-1
3	4	Plug, with Detent, Matrix	.445	.445	.868	A25492-ND	9.11	35.34	770443-1
3	6	Plug, with Detent, Matrix	.445	.600	.750	A25760-ND	7.27	28.20	770353-1
3	9	Plug, with Detent, Matrix	.590	.600	.750	A25761-ND	3.09	12.00	770426-1

Description	Insulation Diameter Range Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 100	500	AMP Part No.	Digi-Key Part No. †	Tape and Reel Size	Pricing	AMP Part No.
.062" (1.57mm) Contacts									
Pin, 24-30AWG — Brass, Pre-tin	.060 (1.524)	A14016-ND	4.08	17.65	794018-1	A14016TR-ND	10,000	17.91/M	640391-1
Socket, 24-30AWG — Brass, Pre-tin	.060 (1.524)	A14048-ND	4.08	17.65	794019-1	A14048TR-ND	10,000	13.67/M	640392-1
Socket, 24-30AWG — Brass, Pre-tin	.060 (1.524)	—	—	—	—	A25477TR-ND*	10,000	14.00/M	794046-1*
Pin, 18-24AWG — Brass, Pre-tin	.050-.110 (1.27-2.794)	A14015-ND	4.08	17.65	794017-1	A14015TR-ND	6,000	24.35/M	770983-1
Socket, 18-24AWG — Brass Pre-tin	.050-.110 (1.27-2.794)	A14049-ND	4.08	17.65	794016-1	A14049TR-ND	6,500	15.18/M	350628-1
Socket, 18-24AWG — Phosphor Bronze, Pre-tin	.050-.110 (1.27-2.794)	—	—	—	—	A25480TR-ND	6,500	23.46/M	350628-2
Pin, 18-24AWG — Brass, Select Gold	.050-.110 (1.27-2.794)	—	—	—	—	A25481TR-ND	6,000	136.91/M	350629-5
Socket, 18-24AWG — Brass, Select Gold	.050-.110 (1.27-2.794)	—	—	—	—	A25482TR-ND	6,500	131.09/M	350628-5

* Lanceless socket for overmolding † Tape and Reel (TR) is also available in Cut Tape

.093” (2.36mm) Soft-Shell Commercial Pin and Socket Connectors

Product Facts:

• Polarized • Cavity Identification • Low contact-mating force • Detent and positive locking • Tin plating • Free-hanging styles • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189

AMP.093” (2.36mm) Soft-Shell Commercial Pin and Socket connectors form a total system of economical commercial-grade connectors and offer compatibility with competitive soft shells.

General Specifications:

• **Thermal Shock:** -55°C to +105°C • **Temperature-Humidity Cycling:** +25°C to +65°C at 90-95% RH • **Durability:** 50 mating cycles • **Dielectric Withstanding Voltage:** 1.0kVAC • **Insulation Resistance:** 1000 MΩ min. initial • **Voltage Rating:** 250VAC • **Contact Rating:** 2.0-10.0 Amps, 14-24 AWG • **Housing Material:** Nylon, natural color. Flammability Rating: UL94V-2 • **Contacts**: .010” (0.25mm) stock thickness. Select Gold is 30µ” minimum gold over nickel. Phosphor bronze contact should be used in high-temperature/humidity cycling applications.

Fig. 1 — 1 Circuit In-Line

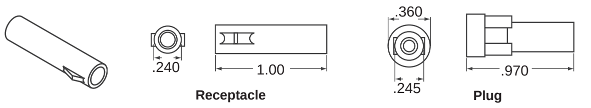


Fig. 2 — 2, 3, and 4 Circuit, In-Line

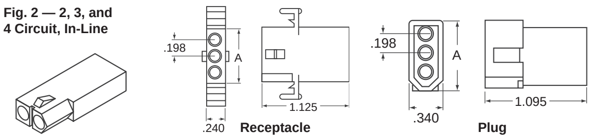


Fig. 3 — 5 Circuit, In-Line

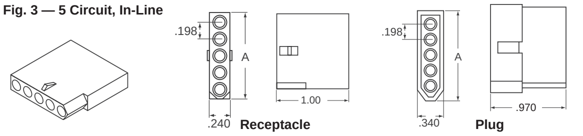


Fig. 4 — 4, 6, 9, 12, and 15 Circuit, Matrix

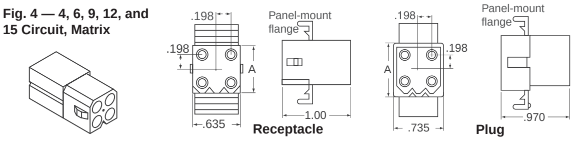


Fig. 5 — 3 Circuit, In-Line

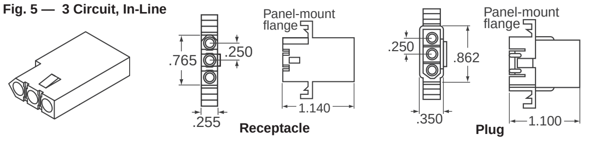


Fig. 6 — 4 Circuit, In-Line

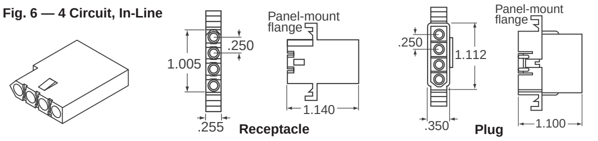


Fig. 7 — 6 Circuit, Matrix

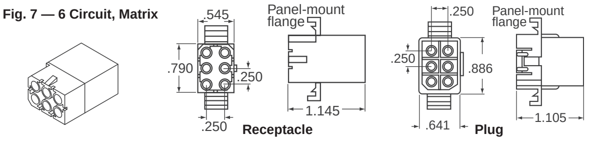


Fig. 8 — 2, 3 and 4 Circuit, In-Line

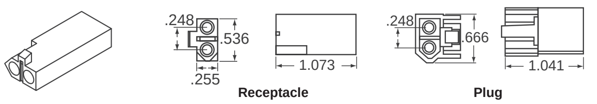


Fig.	No. of Circuits	Description	Inch (mm)	Digi-Key Part No.	Pricing 10	Pricing 50	AMP Part No.
		Free Hanging Housing — .198” (5.03mm) Centerline Spacing					
1	1	Receptacle, with Detent	—	A14050-ND	.93	3.60	770063-1
2	2	Receptacle, with Detent	.540 (13.72)	A14051-ND	1.38	3.96	770065-1
2	3	Receptacle, with Detent	.670 (17.02)	A14052-ND	2.41	9.35	770070-1
2	4	Receptacle, with Detent	.870 (22.10)	A14053-ND	2.75	10.66	770075-1
4	4	Receptacle, Square with Detent	.443 (11.25)	A14054-ND	5.47	21.23	770843-1
3	5	Receptacle, with Detent	1.070 (27.18)	A14055-ND	2.78	7.94	770083-1
4	6	Receptacle, with Detent	.435 (11.05)	A14056-ND	3.21	12.45	770086-1
4	6	Receptacle, without Detents	.435 (11.05)	A25538-ND	3.21	12.45	770088-1
4	9	Receptacle, with Detent	.670 (17.02)	A14057-ND	4.04	15.67	770092-1
4	12	Receptacle, with Detents	.870 (22.10)	A25528-ND	4.16	16.16	770098-1
4	15	Receptacle, without Detents	1.070 (27.18)	A25529-ND	6.35	24.64	770105-1
1	1	Plug, without Mount Ears	—	A14058-ND	1.19	4.61	770064-1
2	2	Plug, without Mount Ears	.640 (16.26)	A14059-ND	2.47	7.06	770069-1
2	3	Plug, without Mount Ears	.770 (19.56)	A14060-ND	2.34	9.09	770074-1
2	4	Plug, without Mount Ears	.970 (24.64)	A14061-ND	2.61	10.12	770078-1
4	4	Plug Square, without Mount Ears	.540(13.71)	A14062-ND	9.00	34.90	770842-1
3	5	Plug, without Mount Ears	1.170 (29.72)	A14063-ND	2.13	6.10	770084-1
4	6	Plug, without Mount Ears	.535 (13.59)	A14064-ND	3.63	14.06	770090-1
4	9	Plug, without Mount Ears	.770 (19.56)	A14065-ND	3.97	15.42	770096-1
4	12	Plug, without Mount Ears	.970 (24.64)	A25536-ND	4.15	16.10	770102-1
4	15	Plug, without Mount Ears	1.170 (29.72)	A25537-ND	5.73	22.23	770107-1
		Panel-Mount — .198” (5.03mm) Centerline Spacing					
2	2	Receptacle, with Detents	.540 (13.72)	A14386-ND	1.81	7.02	770066-1
2	3	Receptacle, with Detents	.670 (17.02)	A14388-ND	2.54	9.84	770071-1
2	4	Receptacle, with Detents	.870 (22.10)	A14389-ND	2.75	10.66	770076-1
4	6	Receptacle, with Detents	.435 (11.05)	A25524-ND	10.53	40.84	770087-1
4	9	Receptacle, with Detents	.670 (17.02)	A25525-ND	4.24	16.46	770093-1
4	12	Receptacle, with Detents	.870 (22.10)	A25526-ND	8.85	34.31	770099-1
4	15	Receptacle, without Detents	1.070 (27.18)	A25527-ND	6.35	24.64	770103-1
2	2	Plug, without Mount Ears	.640 (16.26)	A14387-ND	5.74	22.28	770068-1
2	3	Plug, without Mount Ears	.770 (19.56)	A25530-ND	2.49	9.65	770073-1
2	4	Plug, without Mount Ears	.970 (24.64)	A25531-ND	2.61	10.12	770077-1
4	6	Plug, without Mount Ears	.535 (13.59)	A25532-ND	3.26	12.67	770089-1
4	9	Plug, with Mount Ears at Wire End	.770 (19.56)	A25533-ND	10.89	42.23	770095-1
4	12	Plug, without Mount Ears	.970 (24.64)	A25534-ND	10.06	39.04	770101-1
4	15	Plug, without Mount Ears	1.170 (29.72)	A25535-ND	9.80	38.03	770106-1
		Free Hanging Housing — .250” (6.35mm) Centerline Spacing					
5	3	Receptacle, In-line	—	A25771-ND	3.84	14.89	770339-1
6	4	Receptacle, In-line	—	A25519-ND	5.54	21.50	770337-1
7	6	Receptacle, Matrix	—	A25772-ND	8.92	34.61	770360-1
8	2	Receptacle, Positive Lock, In-line	—	A25513-ND	2.10	8.15	770424-1
8	3	Receptacle, Positive Lock, In-line	—	A25514-ND	4.01	15.55	770785-1
8	4	Receptacle, Positive Lock, In-line	—	A25754-ND	7.36	28.56	770784-1
5	3	Plug, In-line	—	A25774-ND	2.89	11.22	770276-1
6	4	Plug, In-line	—	A25522-ND	5.39	20.91	770336-1
7	6	Plug, Matrix	—	A25523-ND	3.89	15.10	770361-1
8	2	Plug, Positive Lock, In-line	—	A25515-ND	2.75	10.65	770425-1
8	3	Plug, Positive Lock, In-line	—	A25516-ND	4.20	16.29	770783-1
8	4	Plug, Positive Lock, In-line	—	A25755-ND	8.86	34.38	770810-1
		Panel-Mount — .250” (6.35mm) Centerline Spacing					
5	3	Receptacle, In-line	—	A25770-ND	2.83	10.98	770269-1
6	4	Receptacle, In-line	—	A25517-ND	5.54	21.50	770329-1
7	6	Receptacle, Matrix	—	A25518-ND	4.79	18.60	770372-1
5	3	Plug, In-line	—	A25773-ND	7.79	30.24	770338-1
6	4	Plug, In-line	—	A25520-ND	5.39	20.91	770330-1
7	6	Plug, Matrix	—	A25521-ND	4.04	15.68	770373-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Contact Insertion Tool	A9998-ND	16.78	91002-1
Contact Extraction Tool	A9950-ND	38.60	318837-1
Crimp Tool 24AWG with Die	A9817-ND	162.00	90872-1
Crimp Tool 20AWG with Die	A9818-ND	162.00	90871-1
PRO-CRIMPER Hand Tool without Die	A9996-ND	66.00	354940-1
Die Set 14-20AWG use with A9996	A9953-ND	105.00	90871-2
Die Set 18-24AWG use with A9996	A9952-ND	105.00	90872-2

Description	Ins. Dia. Range In. (mm)	Digi-Key Part No.	Loose Piece Pricing 100	Loose Piece Pricing 500	AMP Part No.	Digi-Key Part No. †	Tape and Reel Size	Tape and Reel Price	AMP Part No.
.093” (2.36mm) Contacts — May be used in either plug or receptacle housings.									
Pin, 18-24AWG, Brass, Pre-tin	.110 (2.79)	A14098-ND	4.12	17.82	770147-1	—	—	—	—
Socket, 18-24AWG, Brass, Pre-tin	.110 (2.79)	A14096-ND	4.12	17.82	770146-1	—	—	—	—
Pin, 18-24AWG, Brass, Select Gold	.110 (2.79)	A25775-ND	20.17	87.23	770147-5	—	—	—	—
Socket, 18-24AWG, Brass, Select Gold	.110 (2.79)	A25776-ND	17.75	76.76	770146-5	—	—	—	—
Pin, 14-20AWG, Brass, Pre-tin	.140 (3.56)	A14099-ND	4.12	17.82	770145-1	A14099TR-ND	4,000	19.22/M	350416-1
Socket, 14-20AWG, Brass, Pre-tin	.140 (3.56)	A14097-ND	4.12	17.82	770144-1	A14097TR-ND	4,000	19.22/M	350415-1
Pin, 14-20AWG, Brass, Select Gold	.140 (3.56)	A25778-ND	20.17	87.23	770145-5	A25778TR-ND	4,000	215.10/M	350416-5
Socket, 14-20AWG, Brass, Select Gold	.140 (3.56)	A25779-ND	17.75	76.76	770144-5	A25779TR-ND	4,000	207.64/M	350415-5
Socket, 14-20AWG, Phosphor Bronze, Pre-tin	.140 (3.56)	—	—	—	—	A25509TR-ND	4,000	36.10/M	350415-6
Pin, 14-20AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25510TR-ND⋆	3,750	22.07/M	770530-1
Socket, 14-20AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25511TR-ND⋆	3,750	22.07/M	770529-1
Pin, 14-18 or (2)18AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25512TR-ND‡	1,200	57.20/M	770385-1
Socket, 14-18 or (2)18AWG, Phosphor Bronze, Pre-tin	.180 (4.57)	—	—	—	—	A25780TR-ND‡	1,200	60.20/M	770383-1

† Tape and Reel (TR) are also available in Cut Tape.

⋆ Contact length is .875.

‡ 0.013” (.33mm) stock thickness and accept two wires, each with maximum .180” insulation diameter

(MR) Miniature Rectangular Connectors

Product Facts: • Housings positively lock to prevent accidental disengagement • Either cap or plug housing can be mounted in same rectangular panel cutout without additional hardware • Brick red UL94V-0 housings • Plug and cap design includes molded-in polarizing feature to assure proper mating • High density achieved through .165" (4.19mm) contact centerline spacing • Recognized under the Component Program of Underwriters Laboratories, Inc. File No. E28476 • Certified by Canadian Standards Association File No. LR 7189 • Commoning bars can be used to common adjacent pin contacts in any column or row. Maximum stack per pin is two. Use the mating socket housing to assemble the Commoning Bar unto the pins. Illustration is the proper insertion of the Commoning Bar.

Performance Characteristics:

• **Dielectric Withstanding Voltage:** 2.5 KVAC between adjacent circuits • **Insulation Resistance:** 1500 megohms minimum initial between adjacent circuits • **Voltage Rating:** 250V AC • **Contact Rating:** AWG 26-18 — Test Current 1-6 Amps

Fig. 1

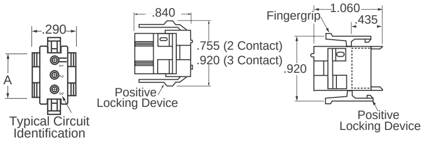


Fig. 2

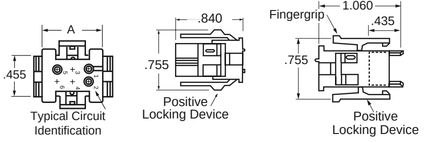


Fig. 3

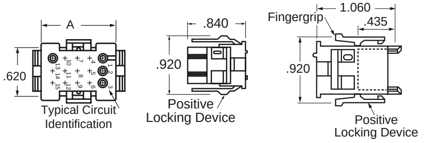


Fig. 4

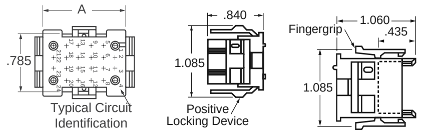


Fig. 5

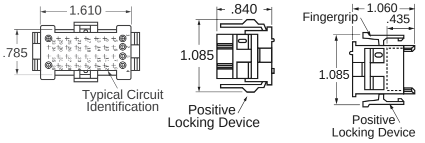


Fig. 6 - Strain Relief

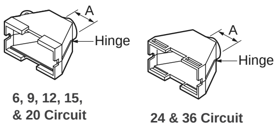


Fig. 7 - Grommet

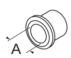


Fig. 8

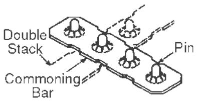


Fig. 9

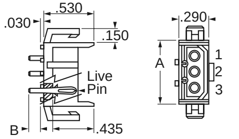


Fig. 10

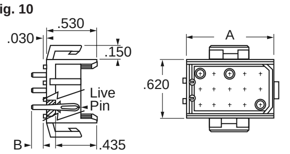


Fig. 11

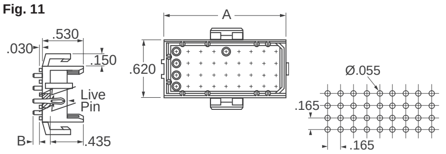


Fig. 12 - Pin

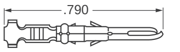


Fig. 13 - Socket

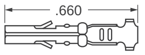


Fig. 14

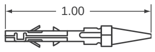


Fig. 15

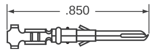


Fig. 16 Keying Plug

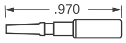


Fig.	No.of Pos.	Type	Dim. A (Inch)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
	In-Line Housing (Contacts Sold Separately)						
1	2	Cap	.455	A14100-ND	.47	10.18	1-640507-0
	3	Cap	.620	A14101-ND	.69	14.98	1-640508-0
	2	Plug	.455	A14110-ND	.38	8.51	1-640517-0
	3	Plug	.620	A14111-ND	.68	14.76	1-640518-0
	Matrix Housing (Contacts Sold Separately)						
2	4	Cap	.455	A14102-ND	.75	16.17	1-640509-0
	6	Cap	.620	A14103-ND	.85	18.29	1-640510-0
	4	Plug	.455	A14112-ND	.71	15.98	1-640519-0
	6	Plug	.620	A14113-ND	.62	13.89	1-640520-0
3	9	Cap	.620	A14104-ND	.91	19.59	1-640511-0
	12	Cap	.785	A14105-ND	1.01	21.80	1-640512-0
	15	Cap	.950	A14106-ND	1.11	24.01	1-640513-0
	9	Plug	.620	A14114-ND	.92	20.64	1-640521-0
	12	Plug	.785	A14115-ND	1.01	21.70	1-640522-0
	15	Plug	.950	A14116-ND	1.08	23.28	1-640523-0
4	20	Cap	.950	A14107-ND	1.76	37.95	1-640514-0
	24	Cap	1.115	A14108-ND	1.87	40.35	1-640515-0
	20	Plug	.950	A14117-ND	1.76	37.98	1-640524-0
	24	Plug	1.115	A14118-ND	1.88	40.47	1-640525-0
5	36	Cap	—	A14109-ND	2.35	50.57	1-640516-0
	36	Plug	—	A14119-ND	1.94	41.92	1-640526-0

Fig.	No. of Pos.	Dim. A (Inch)	Digi-Key Part No.	Pricing		AMP Part No.
				1	25	
	Strain Relief (Grommet - Sold Separately)					
6	6	.374	A14120-ND	2.08	44.87	350373-1
	9	.420	A14121-ND	1.37	29.60	350522-1
	12	.420	A14122-ND	1.73	37.32	350374-1
	15	.420	A14123-ND	2.63	56.71	350523-1
	20	.560	A14124-ND	2.72	58.62	480634-1
	24	.560	A14125-ND	2.78	59.90	350524-1
	36	.560	A14126-ND	3.65	78.75	480594-1
	Adapting Grommet (Flexible PVC - Black)					
7	6	.156	A14130-ND	1.01	21.79	1-350377-0
		.218	A14131-ND	1.20	25.82	1-350376-0
		.296	A14132-ND	.97	20.83	1-350375-0
7	9, 12, 15	.218	A14133-ND	.99	21.31	1-350378-1
		.250	A14134-ND	.98	21.13	1-350379-1
		.281	A14135-ND	1.24	26.79	1-350380-1
7	20, 24, 36	.437	A14136-ND	1.08	23.17	1-380935-0
		.375	A14137-ND	1.03	22.19	1-380936-0
		.312	A14138-ND	1.47	31.72	1-380937-0

Fig.	Description	Length	Digi-Key Part No.	Pricing		AMP Part No.
				1	25	
	Commoning Bar					
8	2 Circuit, Brass, Pre-tin	.305	A25449-ND	.08	1.63	350020-1
	3 Circuit, Brass, Pre-tin	.470	A25450-ND	.08	1.83	350021-1
	4 Circuit, Brass, Pre-tin	.635	A25451-ND	.08	1.83	350022-1

Fig.	No.of Pos.	Plating	Dim. (Inch)		Digi-Key Part No.	Pricing		AMP Part No.
			A	B		1	25	
	PCB Board Vertical Headers, .062" (1.57mm) Board Thickness							
9	2	Tin	.455	.120	A14200-ND	.63	13.52	640497-1
	2	Gold	.455	.120	A14201-ND	1.77	38.09	640497-2
	3	Tin	.620	.120	A14202-ND	.94	20.17	640498-1
	3	Gold	.620	.120	A14203-ND	2.62	56.45	640498-2
	4	Tin	.455	.120	A14204-ND	1.72	37.14	640499-1
	4	Gold	.455	.120	A14205-ND	3.27	70.50	640499-2
	6	Tin	.620	.120	A14206-ND	1.72	36.99	640500-1
	6	Gold	.620	.120	A14207-ND	4.49	96.76	640500-2
10	9	Tin	.620	.120	A14208-ND	2.23	48.05	640501-1
	9	Gold	.620	.120	A14209-ND	6.23	134.23	640501-2
	12	Tin	.785	.120	A14210-ND	2.86	61.74	640502-1
	12	Gold	.785	.120	A14211-ND	8.11	181.49	640502-2
	15	Tin	.950	.120	A14212-ND	3.51	75.54	640503-1
	15	Gold	.950	.120	A14213-ND	10.98	245.74	640503-2
11	20	Tin	.950	.120	A14214-ND	4.55	98.05	640504-1
	20	Gold	.950	.120	A14215-ND	12.92	278.38	640504-2
	24	Tin	1.115	.120	A14216-ND	5.06	109.14	640505-1
	24	Gold	1.115	.120	A14217-ND	14.34	308.97	640505-2
	36	Tin	1.610	.120	A14218-ND	8.20	176.80	640506-1
	36	Gold	1.610	.120	A14219-ND	30.49	682.61	640506-2
	PCB Board Vertical Headers, .120" (3.05mm) Board Thickness							
9	2	Tin	.455	.180	A14220-ND	1.42	30.67	640497-3
	2	Gold	.455	.180	A14221-ND	1.77	38.09	640497-4
	3	Tin	.620	.180	A14222-ND	1.50	32.36	640498-3
	3	Gold	.620	.180	A14223-ND	2.62	56.45	640498-4
	4	Tin	.455	.180	A14224-ND	1.75	37.80	640499-3
	4	Gold	.455	.180	A14225-ND	3.27	70.50	640499-4
	6	Tin	.620	.180	A14226-ND	1.72	36.99	640500-3
	6	Gold	.620	.180	A14227-ND	4.49	96.76	640500-4
10	9	Tin	.620	.180	A14228-ND	2.23	48.05	640501-3
	9	Gold	.620	.180	A14229-ND	5.74	128.49	640501-4
	12	Tin	.785	.180	A14230-ND	2.86	61.74	640502-3
	12	Gold	.785	.180	A14231-ND	8.08	174.07	640502-4
	15	Tin	.950	.180	A14232-ND	3.51	75.54	640503-3
	15	Gold	.950	.180	A14233-ND	9.83	211.87	640503-4
11	20	Tin	.950	.180	A14234-ND	4.55	98.05	640504-3
	20	Gold	.950	.180	A14235-ND	12.92	278.38	640504-4
	24	Tin	1.115	.180	A14236-ND	5.06	109.14	640505-3
	24	Gold	1.115	.180	A14237-ND	14.54	325.56	640505-4
	36	Tin	1.610	.180	A14238-ND	8.20	176.80	640506-3
	36	Gold	1.610	.180	A14239-ND	30.49	682.61	640506-4

Fig.	Description	Ins. Dia. Range Inches	Digi-Key Part No.	Pricing		AMP Part No.
				25	100	
	Contacts (Pins and Sockets)					
12	Live Split Pin, 24-26AWG, Phos. Brz., Pre-tin	.025-.050	A25440-ND	5.40	13.32	640579-1
13	Std. Socket, 24-26AWG, Phos. Brz., Pre-tin	.025-.050	A25441-ND	5.18	12.79	794001-1
12	Live Split Pin, 24-26AWG, Phos. Brz., Select Gold	.025-.050	A25444-ND	21.34	52.63	640579-2
13	Std. Socket, 24-26AWG, Phos. Brz., Select Gold	.025-.050	A25445-ND	20.52	50.61	794001-2
12	Live Split Pin, 18-26AWG, Phos. Brz., Pre-tin	.050-.115	A14199-ND	5.40	13.32	640545-1
13	Std. Socket, 18-26AWG, Phos. Brz., Pre-tin	.050-.115	A14197-ND	5.08	12.54	641300-1
12	Live Split Pin, 18-26AWG, Phos. Brz., Select Gold	.050-.115	A14198-ND	11.51	28.39	640545-2
13	Std. Socket, 18-26AWG, Phos. Brz., Select Gold	.050-.115	A14196-ND	10.60	26.14	641300-2
14	Solder Tail Socket, Phos. Brz., Pre-tin	—	A25447-ND*	5.70	14.07	350838-1
15	Grounding Pin, Phos. Brz., Pre-tin	.050-.115	A25442-ND	5.40	13.32	640580-1
	Grounding Pin, Phos. Brz., Select Gold	.050-.115	A25446-ND	21.58	53.24	640580-2
	Keying Plug					
16	—		A14195-ND	—	42.25	350591-1
	Tools					
	Die Set MR, Use with A9996		A9949-ND	120.00 each		58514-2
	Pro-Crimper Hand Tool		A9996-ND	66.00 each		354940-1
	Extraction Tool		A9954-ND	17.78 each		455822-2
	Certi-Crimp Tool MR		A9938-ND *NEW!*	535.50 each		91526-1
	Contact Insertion Tool		A1444-ND	27.20 each		455830-1
	Pro-Crimper II Hand Tool		A25448-ND	182.25 each		58514-1

* Recommended for use with MR Socket Housings.

MT Connectors

IDC CRIMP TYPE CONNECTOR/COVER FEATURES: • Receptacle connectors .100" (2.54mm) centers • Housings preloaded with standard and high pressure contacts • Insulation Diameter: .050" (1.27mm) • Mating Post Length: .222" to .273" (5.64mm to 6.94mm) max. • Housing and Cover: Black thermoplastic, flame retardant • Contacts: Copper alloy

RECEPTACLE HOUSING FEATURES: • Choice of three contact mating pressures • Receptacles mate with .025" (.64mm) square or round posts • Capable of connecting up to 100 wires simultaneously • Black thermoplastic or glass-filled nylon • Available in single and double row configurations in .100" (2.54mm) centerline spacing • Stamped: Cavity ID, AMP part number and date code stamped on housing where size permits. Unstamped: No marking on housing

Fig. 1

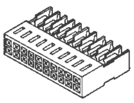


Fig. 2

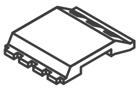


Fig. 3

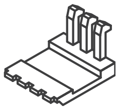


Fig. 4

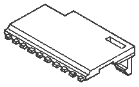


Fig. 5

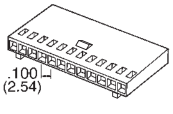


Fig. 6

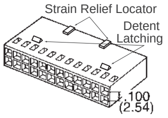
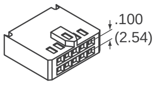


Fig. 7



No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
IDC CRIMP TYPE — HOUSING AND COVERS				
26-30 AWG Housing With Standard Contacts — Fig. 1				
6	A25789-ND	1.88	42.60	102393-1
8	A25790-ND	2.39	54.00	102393-2
10	A25791-ND	2.78	63.00	102393-3
12	A25793-ND	3.31	75.00	102393-4
14	A25795-ND	3.84	87.00	102393-5
16	A25797-ND	5.30	120.00	102393-6
18	A25799-ND	7.00	158.40	102393-7
20	A25801-ND	5.49	124.20	102393-8
24	A28321-ND	6.63	150.00	1-102393-0
26	A28697-ND	5.67	128.40	1-102393-1
28	A28700-ND	10.87	246.00	1-102393-2
30	A28702-ND	8.24	186.60	1-102393-3
34	A28705-ND	9.33	211.20	1-102393-5
40	A28706-ND	8.16	184.80	1-102393-8
50	A28708-ND	9.94	225.00	2-102393-3
60	A28710-ND	11.71	265.20	2-102393-8
22-26 AWG Housing With Standard Contacts — Fig. 1				
6	A3047-ND	2.01	45.60	102398-1
8	A3048-ND	2.86	64.80	102398-2
10	A3049-ND	2.78	63.00	102398-3
12	A3050-ND	3.31	75.00	102398-4
14	A3051-ND	3.84	87.00	102398-5
16	A3052-ND	3.88	86.51	102398-6
18	A3053-ND	4.44	91.98	102398-7
20	A3054-ND	5.49	124.20	102398-8
24	A3055-ND	6.63	150.00	1-102398-0
26	A28698-ND	3.91	88.56	1-102398-1
28	A28701-ND	7.69	174.00	1-102398-2
30	A28703-ND	8.24	186.60	1-102398-3
34	A3057-ND	9.33	211.20	1-102398-5
40	A3058-ND	8.16	184.80	1-102398-8
50	A3059-ND	9.94	225.00	2-102398-3
60	A3060-ND	11.71	265.20	2-102398-8
64	A3061-ND	17.60	398.40	3-102398-0
22-26 AWG Housing With High Pressure Contacts				
6	A28711-ND	2.01	45.60	102694-1
8	A28712-ND	2.39	54.00	102694-2
10	A28713-ND	2.65	60.00	102694-3
12	A28714-ND	3.31	75.00	102694-4
14	A28715-ND	5.43	123.00	102694-5
16	A28716-ND	4.40	99.60	102694-6
20	A28717-ND	5.49	124.20	102694-8
20-22 AWG Housing With Standard Contacts — Fig. 1				
10	A25792-ND	2.78	63.00	102448-3
12	A25794-ND	3.31	75.00	102448-4
14	A25796-ND	3.84	87.00	102448-5
16	A25798-ND	4.40	99.60	102448-6
18	A25800-ND	4.93	111.60	102448-7
20	A25762-ND	5.49	124.20	102448-8
24	A28696-ND	6.63	150.00	1-102448-0
26	A28699-ND	5.67	128.40	1-102448-1
30	A28704-ND	8.24	186.60	1-102448-3
40	A28707-ND	9.83	222.60	1-102448-8
50	A28709-ND	9.94	225.00	2-102448-3
A2031-ND	Man. Pistol GripTool - use w/ Head Assy.			$55.50 each
A2040-ND	Head Assembly Tool for AMP MT Con.			$162.26 each
A28718-ND	Head Assembly Tool			$747.00 each
Low Profile Non-Polarizing — Front Cover Fig. 2 (designed for shielded connectors)				
6	A28719-ND	.29	6.58	102541-1
8	A28720-ND	.51	11.44	102541-2
10	A28721-ND	.29	6.58	102541-3
12	A28722-ND	.48	10.91	102541-4
14	A28723-ND	.49	11.10	102541-5
16	A28724-ND	.37	8.30	102541-6
18	A28725-ND	1.34	30.36	102541-7
20	A28726-ND	1.34	30.40	102541-8
24	A28727-ND	.55	12.45	1-102541-0
26	A28728-ND	.84	19.02	1-102541-1
28	A28729-ND	.99	22.31	1-102541-2
30	A28730-ND	.69	15.56	1-102541-3
34	A28731-ND	.86	19.47	1-102541-5
40	A28732-ND	1.64	37.13	1-102541-8
60	A28733-ND	1.83	41.36	2-102541-8
64	A28734-ND	2.07	46.81	3-102541-0
Shielding & Non-Shielding - Back Cover — Fig. 3				
6	A28735-ND	.29	6.58	102536-1
8	A28736-ND	.97	21.89	102536-2

No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
10	A28737-ND	.32	7.31	102536-3
12	A28738-ND	.98	22.09	102536-4
14	A28739-ND	.98	22.19	102536-5
16	A28740-ND	.89	20.09	102536-6
18	A28741-ND	.82	18.67	102536-7
20	A28742-ND	.46	10.37	102536-8
24	A28743-ND	.99	22.49	1-102536-0
26	A28744-ND	.60	13.48	1-102536-1
28	A28745-ND	.98	22.30	1-102536-2
30	A28746-ND	1.00	22.59	1-102536-3
34	A28747-ND	1.05	23.73	1-102536-5
40	A28748-ND	1.51	34.29	1-102536-8
50	A28749-ND	1.62	36.73	2-102536-3
60	A28750-ND	1.73	39.15	2-102536-8
64	A28751-ND	1.77	40.12	3-102536-0
Standard Profile Covers — Fig. 4 (2 required per connector)				
6	A3062-ND	1.89/2	42.76/50	102396-1
8	A3063-ND	2.22/2	50.26/50	102396-2
10	A3064-ND	1.12/2	25.37/50	102396-3
12	A3065-ND	1.69/2	38.19/50	102396-4
14	A3066-ND	3.98/2	90.19/50	102396-5
16	A3067-ND	1.69/2	38.16/50	102396-6
20	A3069-ND	3.06/2	69.18/50	102396-8
24	A3070-ND	3.41/2	77.10/50	1-102396-0
26	A28752-ND	2.63/2	59.47/50	1-102396-1
30	A28753-ND	1.94/2	43.88/50	1-102396-3
34	A3072-ND	2.20/2	49.79/50	1-102396-5
40	A3073-ND	2.58/2	58.51/50	1-102396-8
50	A3074-ND	4.58/2	103.73/50	2-102396-3
64	A3076-ND	2.93/2	66.38/50	3-102396-0
Keying Plug	A3077-ND	1.46/10	4.57/50	86286-1
SINGLE ROW HOUSING — NON-POLARIZED FIG. 5 (order contacts seperately)				
Stamped				
2	A3011-ND	.84	13.14	87499-3
3	A3012-ND	.59	9.30	87499-5
4	A3013-ND	.52	8.21	87499-7
5	A3014-ND	.42	6.57	87499-9
6	A3015-ND	.52	8.21	1-87499-1
7	A3016-ND	.70	10.95	87499-1
8	A3017-ND	.61	9.49	1-87499-3
9	A3018-ND	.73	11.49	1-87499-5
10	A3019-ND	.66	10.40	1-87499-7
11	A3020-ND	1.57	24.63	1-87499-9
12	A3021-ND	.70	10.95	2-87499-1
13	A3022-ND	.94	14.78	2-87499-3
14	A3023-ND	.84	13.14	2-87499-5
15	A3024-ND	.87	13.68	2-87499-7
16	A3025-ND	.91	14.23	2-87499-9
20	A3029-ND	1.08	16.97	3-87499-7
Unstamped				
1	A26962-ND	.28	6.33	7-87499-2
2	A26963-ND	.31	7.12	87499-4
3	A26964-ND	.35	7.91	87499-6
4	A26965-ND	.38	8.70	87499-8
5	A26966-ND	.42	9.50	1-87499-0
6	A26967-ND	.45	10.29	1-87499-2
7	A26968-ND	.56	12.66	87499-2
8	A26969-ND	.56	12.66	1-87499-4
9	A26970-ND	.63	14.24	1-87499-6
10	A26971-ND	.63	14.24	1-87499-8
11	A26972-ND	1.40	31.65	2-87499-0
12	A26973-ND	.70	15.83	2-87499-2
13	A26974-ND	.80	18.20	2-87499-4
14	A26975-ND	.77	17.41	2-87499-6
15	A26976-ND	.84	18.99	2-87499-8
16	A26977-ND	1.85	41.94	3-87499-0
18	A3027-ND	.94	14.78	3-87499-4
20	A26978-ND	1.01	22.95	3-87499-8
22	A26979-ND	1.12	25.32	4-87499-2
26	A26980-ND	1.36	30.86	5-87499-0
30	A26981-ND	1.57	35.61	5-87499-8
SINGLE ROW HOUSING — POLARIZED FIG. 5 (order contacts seperately)				
Stamped with Detent Latching				
3	A26982-ND	.28	6.33	102241-1
4	A26983-ND	.31	7.12	102241-2

No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
5	A26984-ND	.35	7.91	102241-3
6	A26985-ND	.38	8.70	102241-4
7	A26986-ND	.42	9.50	102241-5
8	A26987-ND	.45	10.29	102241-6
9	A26988-ND	.49	11.08	102241-7
10	A26989-ND	.56	12.66	102241-8
12	A26990-ND	.63	14.24	1-102241-0
14	A26991-ND	.70	15.83	1-102241-2
15	A26992-ND	.80	18.20	1-102241-3
16	A26993-ND	.98	22.16	1-102241-4
18	A26994-ND	1.01	22.95	1-102241-6
20	A26995-ND	1.25	28.20	1-102241-8
22	A26996-ND	1.08	24.53	2-102241-0
DOUBLE ROW HOUSING — NON-POLARIZED FIG. 6 (order contacts seperately)				
Stamped, Housing Height is .600" (15.24mm)				
4	A26998-ND	1.01	22.95	5-87456-0
6	A26999-ND	1.05	23.74	87456-2
10	A3034-ND	1.12	17.51	87456-6
12	A3035-ND	1.19	18.61	87456-8
14	A3036-ND	1.22	19.16	1-87456-0
16	A3037-ND	1.29	20.25	1-87456-2
18	A3038-ND	1.85	29.01	1-87456-4
20	A3039-ND	1.54	24.08	1-87456-6
24	A3040-ND	1.99	31.20	2-87456-0
26	A3041-ND	1.82	28.46	2-87456-2
28	A3042-ND	1.99	31.20	2-87456-4
30	A25819-ND	2.38	53.81	2-87456-6
34	A3043-ND	2.41	37.77	3-87456-0
40	A3044-ND	2.73	42.69	3-87456-6
50	A3045-ND	3.29	51.45	4-87456-0
60	A3046-ND	3.66	57.27	5-87456-2
Unstamped, Housing Height is .600" (15.24mm)				
2	A26997-ND	.63	14.24	5-87456-3
4	A3031-ND	.87	13.68	4-87456-9
6	A3032-ND	.94	14.78	87456-1
8	A3033-ND	1.01	15.87	87456-3
10	A25804-ND	1.05	23.74	87456-5
12	A25806-ND	1.08	24.53	87456-7
14	A25807-ND	1.12	25.32	87456-9
16	A25809-ND	1.15	26.11	1-87456-1
18	A25811-ND	1.68	37.98	1-87456-3
20	A25812-ND	1.47	33.24	1-87456-5
22	A25814-ND	1.78	40.36	1-87456-7
24	A25815-ND	1.61	36.40	1-87456-9
26	A25816-ND	1.71	38.77	2-87456-1
28	A25818-ND	1.82	41.15	2-87456-3
30	A25820-ND	2.17	49.06	2-87456-5
34	A25821-ND	2.13	48.27	2-87456-9
38	A25822-ND	2.45	55.39	3-87456-3
40	A25823-ND	2.66	60.14	3-87456-5
50	A25825-ND	3.25	73.59	3-87456-9
54	A25826-ND	3.43	77.55	4-87456-5
60	A25827-ND	3.60	81.60	5-87456-1
Keying Plug	A25829-ND	.10	2.32	87077-2
Stamped, Housing Height is .645" (16.38mm)				
26	A25817-ND	4.43	100.20	86177-4
Unstamped, Housing Height is .645" (16.38mm)				
6	A25802-ND	3.76	85.20	1-86177-8
10	A25805-ND	3.84	87.00	1-86177-2
14	A25808-ND	3.92	88.80	1-86177-4
16	A25810-ND	4.03	91.20	1-86177-5
20	A25813-ND	4.13	93.60	86177-1
40	A25824-ND	6.02	136.20	1-86177-1
Keying Plug	A25828-ND	.14	3.26	87077-1
DOUBLE ROW HOUSING — POLARIZED FIG. 6 (order contacts seperately)				
Stamped				
6	A25830-ND	.94	21.37	87977-1
8	A25832-ND	1.08	24.53	87977-2
10	A25834-ND	1.15	26.11	87977-3
12	A25836-ND	1.19	26.90	87977-4
20	A25841-ND	2.60	58.80	87977-8
24	A25843-ND	1.82	41.15	1-87977-0
26	A25845-ND	2.24	50.64	1-87977-1
Unstamped				
6	A25831-ND	.87	19.78	2-87977-8
8	A25833-ND	1.47	33.24	2-87977-9
10	A25835-ND	1.54	34.82	3-87977-0
12	A25837-ND	1.61	36.40	3-87977-1

(Continued)

AMP tyco Electronics Authorized Distributor MT Connectors *(Cont.)*

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
14	A25838-ND	1.68	37.98	3-87977-2
16	A25839-ND	1.71	38.77	3-87977-3
18	A25840-ND	1.75	39.57	3-87977-4
20	A25842-ND	1.75	39.57	3-87977-5
24	A25844-ND	1.78	40.36	3-87977-7
26	A25846-ND	2.06	46.69	3-87977-8
40	A25847-ND	2.52	56.97	4-87977-5
Stamped with Detent Latching, without Strain Relief				
6	A25848-ND	1.01	22.95	87631-2
8	A25850-ND	1.08	24.53	87631-4
10	A25852-ND	1.15	26.11	87631-6
12	A25855-ND	1.26	28.49	87631-8
14	A25858-ND	1.33	30.07	1-87631-0
16	A25861-ND	1.47	33.24	1-87631-2
18	A25864-ND	1.57	35.61	1-87631-4
20	A25867-ND	1.71	38.77	1-87631-6
24	A25871-ND	1.96	44.31	2-87631-0
26	A25874-ND	1.99	45.10	2-87631-2
28	A25877-ND	2.13	48.27	2-87631-4
30	A25879-ND	2.24	50.64	2-87631-6
32	A25882-ND	2.31	52.23	2-87631-8
34	A25885-ND	2.48	56.18	3-87631-0
40	A25888-ND	2.73	61.72	3-87631-6
50	A25892-ND	3.36	75.97	4-87631-2
60	A25895-ND	3.76	85.20	5-87631-2

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
Unstamped with Detent Latching, without Strain Relief				
6	A25849-ND	.87	19.78	87631-1
8	A25851-ND	1.01	22.95	87631-3
10	A25853-ND	1.05	23.74	87631-5
12	A25856-ND	1.12	25.32	87631-7
14	A25859-ND	1.15	26.11	87631-9
16	A25862-ND	1.33	30.07	1-87631-1
18	A25865-ND	1.30	29.35	1-87631-3
20	A25868-ND	1.64	37.19	1-87631-5
22	A25870-ND	1.78	40.36	1-87631-7
24	A25872-ND	1.82	41.15	1-87631-9
26	A25875-ND	1.85	41.94	2-87631-1
28	A25878-ND	2.06	46.69	2-87631-3
30	A25880-ND	2.10	47.48	2-87631-5
32	A25883-ND	2.20	49.85	2-87631-7
34	A25886-ND	2.27	51.44	2-87631-9
40	A25889-ND	2.52	56.97	3-87631-5
44	A25891-ND	2.73	61.72	3-87631-9
50	A25893-ND	3.58	81.00	4-87631-1
60	A25896-ND	3.74	84.60	5-87631-1
66	A25898-ND	3.95	89.40	5-87631-3
Stamped with Detent Latching and Strain Relief				
10	A25854-ND	2.24	50.64	87922-1
12	A25857-ND	2.27	51.44	87922-2
14	A25860-ND	3.18	72.00	87922-3
16	A25863-ND	2.55	57.77	87922-4

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
18	A25866-ND	4.03	91.20	87922-5
20	A25869-ND	2.94	66.47	87733-1
24	A25873-ND	3.15	71.22	87733-3
26	A25876-ND	3.18	72.01	87733-4
30	A25881-ND	3.68	83.40	87733-6
32	A25884-ND	3.74	84.60	87733-7
34	A25887-ND	3.76	85.20	87733-8
40	A25890-ND	4.00	90.60	1-87733-1
50	A25894-ND	4.48	101.40	1-87733-4
60	A25897-ND	4.93	111.60	1-87733-7
A25899-ND	Strain Relief, 10 thru 18 pos.		.53 each	87921-1
A25900-ND	Strain Relief, ≥20 positions		1.17 each	87710-1
Unstamped, Center Polarized — Fig. 7				
10	A25901-ND	1.19	26.90	102387-1
14	A25902-ND	1.26	28.49	102387-2
16	A25903-ND	1.47	33.24	102387-3
20	A25904-ND	1.68	37.98	102387-4
24	A25905-ND	1.82	41.15	102387-5
26	A25906-ND	1.85	41.94	102387-6
30	A25907-ND	2.13	48.27	102387-7
34	A25908-ND	2.34	53.02	102387-8
40	A25909-ND	2.59	58.56	102387-9
44	A25910-ND	2.83	64.10	1-102387-3
50	A25911-ND	3.18	72.01	1-102387-0
60	A25912-ND	3.50	79.20	1-102387-1
64	A25913-ND	3.84	87.00	1-102387-2

AMP tyco Electronics Authorized Distributor Contacts

Fig. 1

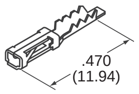


Fig. 2

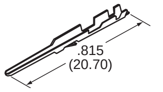
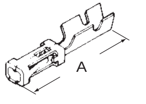


Fig. 3



SPECIFICATIONS: • Contact Current Rating: 3 amperes • Terminal Resistance: 12 milliohms max. (beryllium copper) and 20 milliohms max. (copper-tin-phosphor bronze)

FEATURES: Available in a variety of platings and contact pressures; Dual cantilever contact beam with built-in overstress assures reliable connection.

Contact Plating:

A: 30µ gold on contact area, 100µ to 200µ tin-lead on crimp area, with entire contact underplated 50µ nickel

B: 15µ gold on contact area, 100µ to 200µ tin-lead in crimp end, with entire contact underplated 50µ nickel

C: 30µ gold on contact area, with gold flash over 50µ nickel on entire contact

D: 15µ gold on contact area, with gold flash over 50µ nickel on entire contact

E: 100µ to 200µ bright tin-lead over 30µ nickel on entire contact

F: Gold flash over nickel, 15µ gold on contact area

G: Gold flash over nickel, 30µ gold on contact area

Fig.	Insulation Dia. - Max. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel 10,000	AMP Part No.
Crimp Snap-In (No-strip) Receptacles												
1	.055 (1.40)	BeCu	C	A25943-ND	3.23	27.49	102348-2	—	—	—	—	—
			E	A25944-ND	4.25	37.39	102348-3	A25944CT-ND	189.83	A25944TR-ND	102.51/M	87107-6

A25946-ND (90381-1) Crimp Hand Tool for Receptacles .... **$756.29 each**

Fig.	Dim. A	Wire Size (AWG)	Max. Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 10	100	500	1000	Digi-Key Part No.	Strip Tape & Reel 12,500	AMP Part No.
Crimp Snap-In Pins with Insulation Support																	
2	—	22-26	.061 (1.55)	Ph Bz	C	A25948-ND	4.93	43.39	102107-2	A25948CT-ND	—	—	117.23	213.15	A25948TR-ND	115.11/M	102095-3
					D	A25950-ND	4.18	36.78	102107-1	A25950CT-ND	—	—	93.83	170.60	A25950TR-ND	92.13/M	102095-2
					E	A25952-ND	1.93	16.94	102107-3	A25952CT-ND	—	—	48.36	87.93	A25952TR-ND	47.48/M	102095-4
Crimp Snap-In Receptacles with Insulation Support – Standard Pressure																	
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25953-ND	1.90	16.18	1-102316-4	—	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A25955-ND	3.18	27.98	1-102316-3	A25955CT-ND	—	—	78.75	143.18	A25955TR-ND	77.32/M	102316-6
				BeCu	C	A25957-ND	5.07	44.63	102917-2	A25957CT-ND	—	—	125.02	227.30	A25957TR-ND	122.75/M	102917-1
				BeCu	D	—	—	—	—	A25958CT-ND	2.77	24.38	103.71	154.38	A25958TR-ND	106.88/M	102917-5
				Cu-Sn-Ph Bz	E	—	—	—	—	A25959CT-ND	1.91	16.78	71.37	106.24	A25959TR-ND	73.55/M	102316-5
	.445	22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25966-ND	1.90	16.18	1-87756-8	—	—	—	—	—	—	—	—
				BeCu	A	A25973-ND	3.70	31.44	87667-1	—	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A25968-ND	1.82	15.44	1-87756-6	—	—	—	—	—	—	—	—
				BeCu	C	A3001-ND	4.61	40.57	87667-2	—	—	—	—	—	—	—	—
				BeCu	D	A25972-ND	2.35	19.98	87667-5	—	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	E	A25970-ND	1.14	9.67	87756-7	—	—	—	—	—	—	—	—
				BeCu	E	A3000-ND	3.24	28.53	87667-3	A3000CT-ND	—	—	88.15	160.28	A3000TR-ND	86.55/M	87666-3
				Cu-Sn-Ph Bz	F	A25969-ND	3.33	29.31	87756-5	A25969CT-ND	—	—	81.90	148.90	A25969TR-ND	80.41/M	87756-4
				Cu-Sn-Ph Bz	G	—	—	—	—	A25967CT-ND	2.41	21.20	90.15	134.20	A25967TR-ND	92.91/M	87756-2
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25984-ND	3.33	29.31	1-87523-9	A25984CT-ND	—	—	76.90	139.83	A25984TR-ND	75.51/M	1-87523-8
				Cu-Sn-Ph Bz	B	A25986-ND	3.18	27.98	1-87523-6	A25986CT-ND	—	—	75.94	138.08	A25986TR-ND	74.57/M	1-87523-5
				BeCu	C	A25988-ND	3.65	31.06	86016-1	—	—	—	—	—	—	—	—
				BeCu	D	A25991-ND	4.58	40.31	86016-5	A25991CT-ND	—	—	117.99	214.53	A25991TR-ND	115.85/M	85969-6
				Cu-Sn-Ph Bz	D	—	—	—	—	A25996CT-ND	2.08	18.34	78.02	116.14	A25996TR-ND	80.41/M	87523-4
				Cu-Sn-Ph Bz	E	A25993-ND	1.95	17.18	87523-6	A25993CT-ND	—	—	46.81	85.10	A25993TR-ND	45.96/M	87523-5
				BeCu	E	A25995-ND	3.24	28.53	86016-3	A25995CT-ND	—	—	88.15	160.28	A25995TR-ND	86.55/M	85969-9
				BeCu	G	A25989-ND	2.63	22.39	86016-2	—	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – Intermediate Pressure																	
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25961-ND	3.33	29.31	102920-2	A25961CT-ND	—	—	149.97	272.68	A25961TR-ND	147.25/M	102920-1
				BeCu	C	A25963-ND	7.65	67.35	102918-2	A25963CT-ND	—	—	121.70	221.28	A25963TR-ND	119.49/M	102918-1
	.445	22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25976-ND	3.33	29.31	103171-5	A25976CT-ND	—	—	81.51	148.20	A25976TR-ND	80.03/M	103171-4
				Cu-Sn-Ph Bz	B	—	—	—	—	A25977CT-ND	2.00	17.64	75.02	111.68	A25977TR-ND	77.32/M	103171-1
				BeCu	C	A25979-ND	5.09	44.84	102548-6	A25979CT-ND	—	—	125.02	227.30	A25979TR-ND	122.75/M	102548-5
				BeCu	D	A25981-ND	4.11	36.20	102548-3	A25981CT-ND	—	—	117.99	214.53	A25981TR-ND	115.85/M	102548-1
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25998-ND	3.33	29.31	2-87195-1	A25998CT-ND	—	—	76.90	139.83	A25998TR-ND	75.51/M	2-87195-0
				Cu-Sn-Ph Bz	B	A28315-ND	3.18	27.98	1-87195-8	A28315CT-ND	—	—	78.75	143.18	A28315TR-ND	77.32/M	1-87195-7
				BeCu	C	A28319-ND	6.44	56.72	87046-2	A28319CT-ND	—	—	158.50	288.18	A28319TR-ND	155.62/M	86492-4
				BeCu	D	A28317-ND	4.67	41.09	87046-1	A28317CT-ND	—	—	117.99	214.53	A28317TR-ND	115.85/M	86492-2
				BeCu	E	A3005-ND	3.88	34.11	87046-4	A3005CT-ND	—	—	94.20	171.28	A3005TR-ND	92.49/M	86492-9
				BeCu	G	A3006-ND	2.97	25.26	87046-3	—	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – High Pressure																	
3	.445	27-32	.040 (1.02)	Ph Bz	C	A25965-ND	5.55	48.81	103455-2	A25965CT-ND	—	—	111.99	203.63	A25965TR-ND	109.96/M	103455-1
	.445	22-26	.061 (1.55)	Ph Bz	C	A3004-ND	2.27	18.83	102128-1	—	—	—	—	—	—	—	—
					E	A3003-ND	2.50	21.96	102128-2	A3003CT-ND	—	—	46.09	83.80	A3003TR-ND	45.26/M	87809-2
	.470	20-24	.069 (1.75)	Ph Bz	C	A3008-ND	2.32	19.23	1-87309-4	—	—	—	—	—	—	—	—
					E	A3007-ND	1.43	12.12	1-87309-3	—	—	—	—	—	—	—	—

A99114-ND (90541-1)	Crimp Tool MT Connectors 27-32AWG **$535.50**	**A9903-ND** (91517-1)	Crimp Tool MT Connectors 22-26AWG **$535.50**
A9840-ND (91516-1)	Crimp Tool MT Connectors 20-24AWG **$535.50**	**A3077-ND** (86286-1)	Keying Plug for Standard or Intermediate Contacts **$1.46/10**

AMP tyco Electronics Authorized Distributor

Locking Clip Contacts and Housings

FEATURES:
- Mates with .025" square posts
- Modular design permits end-to-end stacking
- Housing made of 94V-0 rated glass-filled polyester
- Stamped: cavity ID, Amp part number and date code stamped on housing where size permits. Unstamped: no marking on housing

PERFORMANCE CHARACERISTICS:
- Contact Current Rating: 3 amp
- Termination Resistance: 12 milliohms max. (gold plated contacts) or 16 milliohms max. (tin plated contacts)

MATERIAL:
Glass-filled polyester, 94V-0

Fig. 1

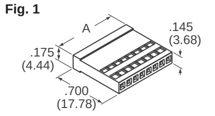


Fig. 2

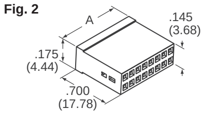
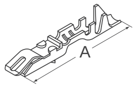


Fig.	No. of Pos.	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Single Row (order contacts seperately)				
1	1	.108 (2.74)	Unstamped	A26920-ND	.83	.76	87175-2
	2	.216 (5.49)	Unstamped	A26921-ND	.60	.54	87175-6
	3	.316 (8.03)	Unstamped	A26922-ND	1.43	1.30	87175-8
	4	.416 (10.57)	Unstamped	A26923-ND	.80	.73	1-87175-0
	5	.516 (13.11)	Unstamped	A26924-ND	.82	.75	1-87175-2
	6	.616 (15.65)	Unstamped	A26925-ND	1.81	1.64	1-87175-4
	6	.616 (15.65)	Stamped	A26926-ND	2.06	1.87	1-87175-3
	7	.716 (18.19)	Unstamped	A26927-ND	1.85	1.68	1-87175-6
	7	.716 (18.19)	Stamped	A26928-ND	2.11	1.91	1-87175-5
	8	.816 (20.73)	Unstamped	A26929-ND	2.14	1.94	1-87175-8
	8	.816 (20.73)	Stamped	A26930-ND	2.15	1.95	1-87175-7
	9	.916 (23.27)	Unstamped	A26931-ND	2.19	1.99	2-87175-0
	9	.916 (23.27)	Stamped	A26932-ND	2.20	1.99	1-87175-9
	10	1.016 (25.81)	Unstamped	A26933-ND	1.97	1.79	2-87175-2
	10	1.016 (25.81)	Stamped	A26934-ND	2.24	2.03	2-87175-1
	11	1.116 (28.35)	Unstamped	A26935-ND	3.48	3.16	2-87175-4
1	11	1.116 (28.35)	Stamped	A26936-ND	2.53	2.30	2-87175-3
	12	1.216 (30.89)	Unstamped	A26937-ND	2.39	2.17	2-87175-6
	12	1.216 (30.89)	Stamped	A26938-ND	2.40	2.18	2-87175-5
	13	1.316 (33.43)	Unstamped	A26939-ND	2.51	2.28	2-87175-8
	14	1.416 (35.97)	Unstamped	A26940-ND	2.60	2.36	3-87175-0
	15	1.516 (38.51)	Unstamped	A26941-ND	2.35	2.13	87175-4
	15	1.516 (38.51)	Stamped	A26942-ND	3.18	2.88	87175-3
			Double Row (order contacts seperately)				
2	2	.116 (2.95)	Unstamped	A26943-ND	1.39	1.27	87176-2
	4	.216 (5.49)	Unstamped	A26944-ND	1.80	1.63	87133-1
	6	.316 (8.03)	Unstamped	A26945-ND	1.75	1.59	87133-7
	6	.316 (8.03)	Stamped	A26946-ND	2.06	1.87	87133-8
	10	.516 (13.11)	Unstamped	A26947-ND	1.97	1.79	87133-2
	10	.516 (13.11)	Stamped	A26948-ND	2.24	2.03	87133-5
	12	.616 (15.65)	Unstamped	A26949-ND	2.58	2.34	1-87133-1
	20	1.016 (25.81)	Unstamped	A26950-ND	2.89	2.63	87133-3

Locking Clip Contacts

MATERIAL: Stainless steel spring

Contact Plating: A: 30µ gold on contact area, with gold flash over 50µ nickel on the entire contact
B: 100µ - 200µ bright tin-lead over 50µ nickel on entire contact



Wire Size (AWG)	Dim. A Inch (mm)	Insulation Dia. Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	10	25	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 10	100	500	Digi-Key Part No.	Strip T & R 7,000	AMP Part No.
28-30	.550 (13.97)	.029-.039 (.74-.99)	A	A26951-ND	.44	—	10.06	28.50	87191-1	—	—	—	—	—	—	—
			B	A26952-ND	.33	—	7.56	21.43	87191-2	—	—	—	—	—	—	—
22-26	.584 (14.83)	.038-.062 (.97-1.57)	A	A26954-ND	—	5.15	—	45.33	87165-1	A26954CT-ND	—	25.50	116.88	A26954TR-ND	127.50/M	87124-1
			B	A26956-ND	—	4.41	—	38.82	87165-2	A26956CT-ND	—	17.89	82.01	A26956TR-ND	89.46/M	87124-2
20	.584 (14.83)	.038-.062 (.97-1.57)	A	—	—	—	—	—	—	A26957CT-ND	3.30	29.08	123.68	A26957TR-ND	141.62/M	867052-2
			B	—	—	—	—	—	—	A26958CT-ND	2.32	20.44	86.92	A26958TR-ND	99.53/M	867052-1

A26960-ND Keying Plug for .025" sq. post contacts.................................... **$.11/1, $2.51/25**

A26961-ND Extraction Tool.. **$27.90 each**

AMP tyco Electronics Authorized Distributor

Short Point Wire-Applied Connnectors and Contacts

Fig. 1

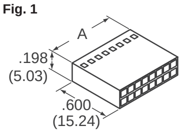
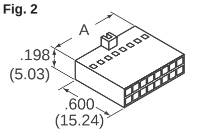


Fig. 2



FEATURES:
- Short point of contact mates with .169" to .259" (4.29mm to 6.58mm)
- Double row housings are end-to-end and side-to-side stackable
- Terminates 20-32 AWG discrete wire • Mates with .025" (.64mm) square posts • Dual cantilever contact beams for reliable matings

PERFORMANCE CHARACERISTICS:
- Contact Current Rating: 3amp
- Termination Resistance: 12 milliohms max.

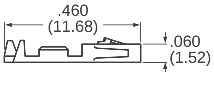
MATERIAL:
Black thermoplastic, flame retardant, 94V-0

Fig.	No. of Pos.	Dimension A inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Double Row, Non-Polarized (order contacts seperately)				
1	4	.198 (5.03)	A25914-ND	.62	.57	104482-1
	6	.298 (7.57)	A25915-ND	.63	.58	104482-2
	8	.398 (10.11)	A25916-ND	.64	.58	104482-3
	10	.498 (12.65)	A25917-ND	.64	.59	104482-4
	12	.598 (15.19)	A25918-ND	.64	.59	104482-5
	14	.698 (17.73)	A25919-ND	.65	.59	104482-6
	16	.798 (20.27)	A25920-ND	.66	.60	104482-7
	18	.898 (22.81)	A25921-ND	.66	.61	104482-8
	20	.998 (25.35)	A25922-ND	.67	.62	104482-9
	22	1.098 (27.89)	A25923-ND	.69	.63	1-104482-0
	26	1.298 (32.97)	A25924-ND	.70	.64	1-104482-1
	28	1.398 (35.51)	A25925-ND	.71	.65	1-104482-2
	30	1.498 (38.05)	A25926-ND	.75	.68	1-104482-3
	32	1.598 (40.59)	A25927-ND	.75	.69	1-104482-4
	34	1.698 (43.13)	A25928-ND	.79	.72	1-104482-5
1	36	1.798 (45.67)	A25929-ND	.80	.73	1-104482-6
	38	1.898 (48.21)	A25930-ND	.81	.73	1-104482-7
	40	1.998 (50.75)	A25931-ND	.82	.74	1-104482-8
	44	2.198 (55.83)	A25932-ND	1.40	1.27	1-104482-9
	52	2.598 (65.99)	A25933-ND	1.50	1.37	2-104482-0
		Double Row, Polarized (order contacts seperately)				
2	8	.398 (10.11)	A25934-ND	.64	.59	104483-1
	14	.698 (17.73)	A25935-ND	.63	.58	104483-9
	18	.898 (22.81)	A25936-ND	.64	.59	104483-2
	20	.998 (25.35)	A25937-ND	.65	.60	104483-3
	26	1.298 (32.97)	A25938-ND	.70	.64	104483-4
	30	1.498 (38.05)	A25939-ND	.75	.68	104483-5
	38	1.898 (48.21)	A25940-ND	.78	.71	104483-6
	54	2.698 (68.53)	A25941-ND	1.42	1.29	104483-7
	64	3.198 (81.23)	A25942-ND	1.47	1.33	104483-8

Short Point Crimp Snap-In Receptacle Contacts

MATERIAL: Copper alloy C7025

Contact Plating: A: 30µ gold on contact area, with gold flash over 50µ nickel on the entire contact **B:** 15µ gold on contact area, 50µ min. tin-lead in crimp area, with entire post underplated 50µ nickel **C:** 100µ - 200µ bright tin-lead over 50µ nickel on entire contact



Wire Size (AWG)	Insulation Dia. Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel 15,000	AMP Part No.
28-32	.025-.060 (.64-1.52)	A	A28323-ND	.81	6.90	104481-8	A28323CT-ND	71.30	A28323TR-ND	38.51/M	104481-4
		B	A28325-ND	.72	6.08	104481-7	A28325CT-ND	62.85	A28325TR-ND	33.94/M	104481-3
		C	A28326-ND	.57	4.81	104481-6	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	A	A28327-ND	.81	6.90	104480-9	—	—	—	—	—
		B	A28328-ND	.72	6.08	104480-8	—	—	—	—	—
		C	A28329-ND	.57	4.81	104480-7	—	—	—	—	—
20-24	.025-.060 (.64-1.52)	A	A28331-ND	1.42	12.50	104479-7	A28331CT-ND	71.30	A28331TR-ND	38.51/M	104479-4
		B	A28333-ND	1.25	11.02	104479-6	A28333CT-ND	62.85	A28333TR-ND	31.43/M	104479-3
		C	A28335-ND	1.78	15.66	104479-5	A28335CT-ND	49.68	A28335TR-ND	26.83/M	104479-2

A28348-ND Crimp Hand Tool for 20-24 AWG.. **$880.65 each**

AMP tyco Electronics
Authorized Distributor

Unprotected Profile Headers - .100” (2.54mm) Centers

PERFORMANCE CHARACTERISTICS: • Insulation Resistance: 5,000 megohms min. initial • Withstanding Voltage: 750V rms at sea level • Operating Temperature: -65°C to +105°C • Current: 3 amp max. per contact **MATERIAL:** Black thermoplastic, 94V-0 rated • Posts: Copper alloy

Contact Plating:

A: 30µ gold on contact area, 100µ to 200µ tin-lead on solder area, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ to 200µ tin-lead on solder area, with entire post underplated 50µ nickel

Fig. 1

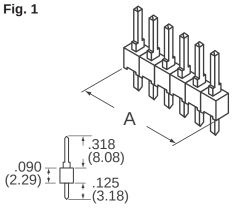


Fig. 2

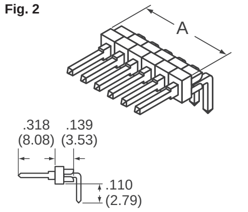


Fig. 3

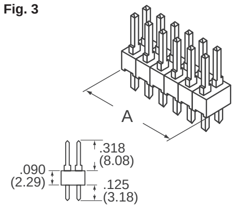
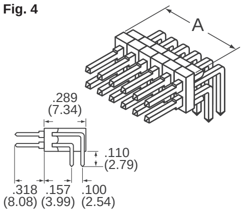


Fig. 4



No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Single Row						
Fig. 1 — .025” (.64mm) Square Straight Post						
1	A	.084 (2.13)	A26540-ND	.51	.46	87220-1
	B		A26541-ND	.42	.38	87224-1
2	A	.184 (4.67)	A26542-ND	.87	.79	87220-2
	B		A26543-ND	.72	.65	87224-2
3	A	.284 (7.21)	A26544-ND	1.20	1.08	87220-3
	B		A26545-ND	.67	.61	87224-3
4	A	.384 (9.75)	A26546-ND	1.56	1.41	87220-4
	B		A26547-ND	1.29	1.17	87224-4
5	A	.484 (12.29)	A26548-ND	1.77	1.60	87220-5
	B		A26549-ND	1.44	1.30	87224-5
6	A	.584 (14.83)	A26550-ND	2.04	1.84	87220-6
	B		A26551-ND	1.74	1.57	87224-6
7	A	.684 (17.37)	A26552-ND	2.43	2.19	87220-7
	B		A26553-ND	1.95	1.76	87224-7
8	A	.784 (19.91)	A26554-ND	2.67	2.41	87220-8
	B		A26555-ND	2.13	1.92	87224-8
10	A	.984 (24.99)	A26556-ND	3.30	2.97	1-87220-0
	B		A26557-ND	2.67	2.41	1-87224-0
20	A	1.984 (50.39)	A26558-ND	6.27	5.65	2-87220-0
	B		A26559-ND	4.98	4.49	2-87224-0
40	A	3.984 (101.19)	A26560-ND	12.27	11.05	4-87220-0
	B		A26561-ND	9.81	8.83	4-87224-0
Fig. 2 — .025” (.64mm) Square Right Angle Post						
1	A	.084 (2.13)	A28762-ND	.54	.49	87232-1
	B		A28763-ND	.51	.46	87233-1
2	A	.184 (4.67)	A28764-ND	.93	.84	87232-2
	B		A28765-ND	.87	.79	87233-2
3	A	.284 (7.21)	A28766-ND	1.29	1.17	87232-3
	B		A28767-ND	1.20	1.08	87233-3
4	A	.384 (9.75)	A28768-ND	1.59	1.44	87232-4
	B		A28769-ND	1.20	1.08	87233-4
5	A	.484 (12.29)	A28770-ND	1.89	1.71	87232-5
	B		A28771-ND	1.59	1.44	87233-5
6	A	.584 (14.83)	A28772-ND	2.31	2.08	87232-6
	B		A28773-ND	2.13	1.92	87233-6
7	A	.684 (17.37)	A28774-ND	2.70	2.43	87232-7
	B		A28775-ND	2.52	2.27	87233-7
8	A	.784 (19.91)	A28776-ND	2.91	2.62	87232-8
	B		A28777-ND	2.22	2.00	87233-8
10	A	.984 (24.99)	A28778-ND	3.42	3.08	1-87232-0
	B		A28779-ND	3.27	2.95	1-87233-0
20	A	1.984 (50.39)	A28780-ND	6.75	6.08	2-87232-0
	B		A28781-ND	6.27	5.65	2-87233-0
40	A	3.984 (101.19)	A26562-ND	12.93	11.64	4-87232-0
	B		A26563-ND	10.17	9.16	4-87233-0
Double Row						
Fig. 3 — .025” (.64mm) Square Straight Post						
2	A	.084 (2.13)	A26564-ND	.96	.87	1-87215-0
	B		A26565-ND	.87	.79	87227-1
4	A	.184 (4.67)	A26566-ND	1.68	1.52	1-87215-1
	B		A26567-ND	1.44	1.30	87227-2
6	A	.284 (7.21)	A26568-ND	2.01	1.81	1-87215-2
	B		A26569-ND	1.68	1.52	87227-3
8	A	.384 (9.75)	A26570-ND	2.58	2.33	87215-1
	B		A26571-ND	2.04	1.84	87227-4
10	A	.484 (12.29)	A26572-ND	3.15	2.84	87215-2
	B		A26573-ND	2.58	2.33	87227-5
12	A	.584 (14.83)	A26574-ND	3.69	3.33	87215-3
	B		A26575-ND	2.94	2.65	87227-6
14	A	.684 (17.37)	A26576-ND	4.23	3.81	87215-4
	B		A26577-ND	3.30	2.97	87227-7
16	A	.784 (19.91)	A26578-ND	4.77	4.30	87215-5
	B		A26579-ND	3.78	3.41	87227-8
20	A	.984 (24.99)	A26580-ND	4.38	3.95	87215-7
	B		A26581-ND	4.68	4.22	1-87227-0
24	A	1.184 (30.07)	A26582-ND	7.02	6.32	87215-8
	B		A26583-ND	5.40	4.86	1-87227-2
26	A	1.284 (32.61)	A26584-ND	7.65	6.89	87215-9
	B		A28694-ND	5.97	5.38	1-87227-3
34	A	1.684 (42.77)	A26585-ND	9.90	8.91	1-87215-7
	B		A28695-ND	7.77	7.00	1-87227-7
50	A	2.484 (63.09)	A26586-ND	14.55	13.10	2-87215-5
	B		A26587-ND	11.34	10.21	2-87227-5
60	A	2.984 (75.79)	A26588-ND	17.43	15.69	3-87215-0
	B		A26589-ND	13.68	12.32	3-87227-0
80	A	3.984 (101.19)	A26591-ND	23.07	20.77	4-87215-0
	B		A26590-ND	17.94	16.15	4-87227-0
Fig. 4 — .025” (.64mm) Square Right-Angle Post						
2	A	.084 (2.13)	A28782-ND	.96	.87	1-86479-3
	B		A28783-ND	.87	.79	87230-1
4	A	.184 (4.67)	A28784-ND	1.47	1.33	1-86479-4
	B		A28785-ND	1.29	1.17	87230-2
6	A	.284 (7.21)	A26592-ND	1.86	1.68	1-86479-5
	B		A26593-ND	1.47	1.33	87230-3
8	A	.384 (9.75)	A26594-ND	2.49	2.25	1-86479-6
	B		A26595-ND	1.95	1.76	87230-4
10	A	.484 (12.29)	A26596-ND	3.15	2.84	86479-3
	B		A26597-ND	2.55	2.30	87230-5
12	A	.584 (14.83)	A28786-ND	3.60	3.24	86479-4
	B		A28787-ND	3.30	2.97	87230-6
14	A	.684 (17.37)	A26598-ND	4.38	3.95	86479-5
	B		A26599-ND	3.78	3.41	87230-7
16	A	.784 (19.91)	A26600-ND	4.95	4.46	86479-2
	B		A26601-ND	3.90	3.51	87230-8
20	A	.984 (24.99)	A26602-ND	6.18	5.57	86479-1
	B		A26603-ND	4.77	4.30	1-87230-0
24	A	1.184 (30.07)	A28788-ND	7.38	6.65	86479-7
	B		A28789-ND	6.27	5.65	1-87230-2
26	A	1.284 (32.61)	A26604-ND	7.95	7.16	1-86479-0
	B		A26605-ND	6.18	5.57	1-87230-3
30	A	1.484 (37.69)	A26606-ND	9.21	8.29	1-86479-9
	B		A26607-ND	7.23	6.51	1-87230-5
50	A	2.484 (63.09)	A26608-ND	12.87	11.59	2-86479-9
	B		A26609-ND	11.97	10.78	2-87230-5
60	A	2.984 (75.79)	A28790-ND	18.39	16.56	3-86479-4
	B		A28791-ND	15.06	13.56	3-87230-0
80	A	3.984 (101.19)	A26610-ND	24.15	21.74	4-86479-4
	B		A26611-ND	18.15	16.34	4-87230-0

Breakaway Headers - .100” (2.54mm) Centers

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze

Contact Plating:

A: 30µ gold on contact area, 100µ to 200µ tin-lead on solder area, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ to 200µ tin-lead on solder area, with entire post underplated 50µ nickel

C: 100µ to 200µ tin-lead over 50µ nickel on entire post

Fig. 1

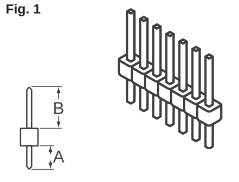


Fig. 2

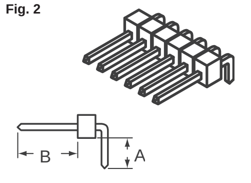


Fig. 3

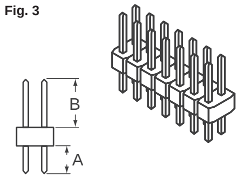
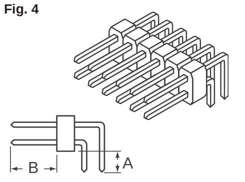


Fig. 4



No. of Pos.	Plating	Dimensions - Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
		A	B		1	25	
Single Row							
Fig. 1 — .025” (.64mm) Square Straight Post							
40	A	.090 (2.29)	.230 (5.84)	A26508-ND	1.09	.99	4-103747-0
	C			A26509-ND	1.01	.92	4-103741-0
	A	.120 (3.05)	.230 (5.84)	A26512-ND	1.09	.99	4-103239-0
	B			A26513-ND	1.06	.96	4-103185-0
	C			A26514-ND	1.01	.92	4-103327-0
	A	.125 (3.18)	.318 (8.08)	A26518-ND	1.09	.99	4-102976-0
	B			A26519-ND	1.06	.96	4-102972-0
	C			A26520-ND	1.01	.92	4-103321-0
Fig. 2 — .025” (.64mm) Square Right Angle Post							
40	A	.090 (2.29)	.230 (5.84)	A26510-ND	1.20	1.09	4-103765-0
	C			A26511-ND	1.09	.99	4-103759-0
	A	.120 (3.05)	.230 (5.84)	A26515-ND	1.20	1.09	4-103148-0
	B			A26516-ND	1.15	1.04	4-103325-0
	C			A26517-ND	1.09	.99	4-103329-0
	A	.110 (2.79)	.318 (8.08)	A26521-ND	1.20	1.09	4-102978-0
	B			A26522-ND	1.15	1.04	4-102974-0
	C			A26523-ND	1.09	.99	4-103323-0
Double Row							
Fig. 3 — .025” (.64mm) Square Straight Angle Post							
80	A	.090 (2.29)	.230 (5.84)	A26524-ND	2.10	1.90	4-103783-0
	C			A26525-ND	1.87	1.69	4-103777-0
	A	.120 (3.05)	.230 (5.84)	A26528-ND	2.10	1.90	4-103240-0
	B			A26529-ND	1.95	1.76	4-103186-0
	C			A26530-ND	1.87	1.69	4-103328-0
	A	.125 (3.18)	.318 (8.08)	A26534-ND	2.10	1.90	4-102977-0
	B			A26535-ND	1.95	1.76	4-102973-0
	C			A26536-ND	1.87	1.69	4-103322-0
Fig. 4 — .025” (.64mm) Square Right Angle Post							
80	A	.090 (2.29)	.230 (5.84)	A26526-ND	3.96	3.57	4-103801-0
	C			A26527-ND	2.49	2.25	4-103795-0
	A	.120 (3.05)	.230 (5.84)	A26531-ND	2.75	2.48	4-103149-0
	B			A26532-ND	2.62	2.36	4-103326-0
	C			A26533-ND	2.49	2.25	4-103330-0
	A	.110 (2.79)	.318 (8.08)	A26537-ND	2.75	2.48	4-102979-0
	B			A26538-ND	2.62	2.36	4-102975-0
	C			A26539-ND	2.49	2.25	4-103324-0

PCB Connectors - .100” (2.54mm) Centers

PERFORMANCE SPECIFICATIONS: • Current Rating: 3 amp max. for single contact: 2 amp max. per contact for fully energized connector • Voltage Rating: 250 VAC • Dielectric Rating: 750 VAC rms between contacts for one min. • Insulation Resistance: 1000 megohms after temp./humidity cycling • Temperature Rating: Headers; -65°C to +105°C Receptacle Assemblies; -65°C to +125°C • Durability: 200 cycles for 30µ gold plating (75 cycles for 15µ gold plating)

MATERIAL: Headers: • Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze **Receptacles:** • Housing: Brown thermoplastic, 94V-0 rated, high temperature compatible • Contacts: Phosphor bronze

Contact/Post Plating:

A: 30µ gold on contact area, 100µ to 200µ bright tin-lead on termination end, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ to 200µ bright tin-lead on termination end, with entire post underplated 50µ nickel

C: 30µ gold on contact area, 50µ to 100µ bright tin-lead on solder area, with entire contact underplated 50µ nickel

D: 15µ gold on contact area, 50µ to 100µ bright tin-lead on solder area, with entire contact underplated 50µ nickel

Fig. 1

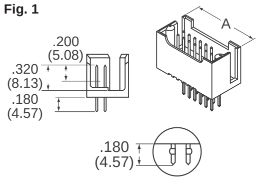
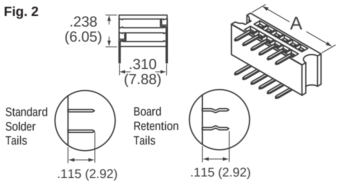


Fig. 2



No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Headers — Fig. 1						
Straight Post with Standard Solder Tails						
12	A	.980 (24.89)	A26375-ND	2.09	1.94	102692-1
	B	.980 (24.89)	A26376-ND	1.88	1.74	102567-1
16	A	1.180 (29.97)	A26379-ND	2.60	2.41	1-102692-5
20	B	1.380 (35.05)	A26380-ND	2.46	2.28	1-102567-1
24	A	1.580 (40.13)	A26382-ND	3.18	2.94	102692-2
	B	1.580 (40.13)	A26383-ND	2.78	2.58	102567-2
30	A	1.880 (47.75)	A26385-ND	2.89	2.68	1-102692-7
	B	1.880 (47.75)	A26386-ND	2.46	2.28	1-102567-3
36	A	2.180 (55.37)	A26388-ND	4.29	3.97	102692-3
	B	2.180 (55.37)	A26389-ND	7.29	6.74	102567-3
40	A	2.380 (60.45)	A26391-ND	4.66	4.32	1-102692-3
	B	2.380 (60.45)	A26392-ND	3.01	2.79	1-102567-2
50	B	2.880 (73.15)	A26394-ND	4.74	4.39	102567-6
60	A	3.380 (85.85)	A26396-ND	6.52	6.03	102692-5
	B	3.380 (85.85)	A26397-ND	5.38	4.98	102567-4
70	B	3.880 (98.55)	A26399-ND	4.77	4.41	1-102567-0
80	B	4.380 (111.25)	A26401-ND	7.10	6.57	102567-8
100	A	5.380 (136.65)	A26402-ND	10.57	9.78	102692-8
	B	5.380 (136.65)	A26403-ND	8.82	8.16	102567-9
120	A	6.380 (162.05)	A26404-ND	12.59	11.64	102692-9
With Board Retention Tails						
12	A	.980 (24.89)	A26377-ND	3.13	2.90	1-534978-6
20		1.380 (35.05)	A26381-ND	3.07	2.85	534978-3
24		1.580 (40.13)	A26384-ND	3.21	2.97	534978-4
30		1.880 (47.75)	A26387-ND	2.89	2.68	534978-5
36		2.180 (55.37)	A26390-ND	4.29	3.97	534978-6
40		2.380 (60.45)	A26393-ND	4.64	4.29	534978-7
50	A	2.880 (73.15)	A26395-ND	5.62	5.20	534978-8
60		3.380 (85.85)	A26398-ND	4.72	4.37	534978-9
70		3.880 (98.55)	A26400-ND	5.75	5.32	1-534978-5
110		5.880 (149.35)	A26378-ND	11.53	10.66	1-534978-2
Receptacles — Fig. 2 Horizontal Mount, Closed Entry						
Standard Solder Tails						
12	C	.858 (21.79)	A26340-ND	2.54	2.36	532956-1
	D	.858 (21.79)	A26341-ND	2.39	2.21	532955-1
16	C	1.058 (26.87)	A26343-ND	3.34	3.09	532956-2
20	C	1.258 (31.95)	A26344-ND	4.05	3.75	532956-3
	D	1.258 (31.95)	A26345-ND	2.92	2.70	532955-3
24	C	1.458 (37.03)	A26347-ND	3.63	3.36	532956-4
	D	1.458 (37.03)	A26348-ND	4.45	4.12	532955-4
30	C	1.758 (44.65)	A26350-ND	4.43	4.10	532956-5
	D	1.758 (44.65)	A26351-ND	5.35	4.95	532955-5
36	C	2.058 (52.27)	A26353-ND	6.63	6.13	532956-6
	D	2.058 (52.27)	A26354-ND	6.23	5.76	532955-6
40	C	2.258 (57.35)	A26356-ND	3.08	2.85	532956-7
	D	2.258 (57.35)	A26357-ND	2.72	2.52	532955-7
50	C	2.758 (70.05)	A26359-ND	8.69	8.04	532956-8
	D	2.758 (70.05)	A26360-ND	6.17	5.71	532955-8
60	C	3.258 (82.75)	A26362-ND	10.18	9.41	532956-9
	D	3.258 (82.75)	A26363-ND	9.35	8.65	532955-9
70	D	3.758 (95.45)	A26365-ND	8.35	7.72	1-532955-0
72	C	3.858 (97.99)	A28693-ND	9.33	8.63	1-532956-1
80	C	4.258 (108.15)	A26367-ND	10.34	9.56	1-532956-2
100	C	5.258 (133.55)	A26369-ND	12.56	11.62	1-532956-6
	D	5.258 (133.55)	A26370-ND	15.16	14.02	1-532955-6
120	C	6.258 (158.95)	A26373-ND	19.58	18.11	1-532956-8
	D	6.258 (158.95)	A26374-ND	18.02	16.66	1-532955-8
Board Retention Tails						
12	C	.858 (21.79)	A26342-ND	3.47	3.21	534204-2
20		1.258 (31.95)	A26346-ND	4.05	3.75	534204-9
24		1.458 (37.03)	A26349-ND	4.72	4.37	1-534204-1
30		1.758 (44.65)	A26352-ND	4.43	4.10	534204-4
36		2.058 (52.27)	A26355-ND	7.58	7.01	534204-3
40	C	2.258 (57.35)	A26358-ND	5.46	5.05	1-534204-2
50		2.758 (70.05)	A26361-ND	6.49	6.01	534204-1
60		3.258 (82.75)	A26364-ND	7.82	7.23	534204-5
70		3.758 (95.45)	A26366-ND	9.09	8.41	1-534204-3
80		4.258 (108.15)	A26368-ND	10.34	9.56	534204-8
100		5.258 (133.55)	A26371-ND	16.51	15.27	534204-6
110		5.758 (146.25)	A26372-ND	18.07	16.71	1-534204-6

Mod. II and IV Receptacles Assemblies

PERFORMANCE SPECIFICATIONS: • Durability: 200 cycles • Operating Temperature: -65°C to +105°C (-65°C to +125°C for horizontal mount) • Current Rating: 3 amp max. for single contact (2 amp max. per contact when connector is fully energized) • Insulation Resistance: 5000 megohms minimum between adjacent contacts

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated (horizontal mount - high temperature compatible) • Contacts: Phosphor bronze

Contact/Post Plating:

A: 30µ gold on contact area, 50µ to 100µ bright tin-lead on solder area, with entire contact underplated 50µ nickel

B: 30µ gold on contact area, 100µ to 200µ bright tin-lead on solder area, with entire contact underplated 50µ nickel

Fig. 1

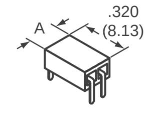


Fig. 2

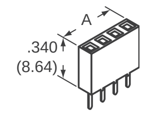


Fig. 3

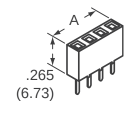


Fig. 4

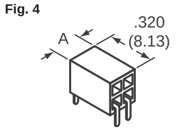


Fig. 5

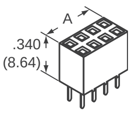


Fig. 6

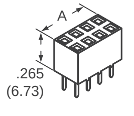
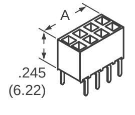


Fig. 7



No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Single Row						
Fig. 1 — Mod. II, Horizontal Mount Short Point-of-Contact, with Standoffs						
2	A	.200 (5.08)	A26405-ND	.58	.54	535676-1
3		.300 (7.62)	A26406-ND	.72	.67	535676-2
4		.400 (10.16)	A26407-ND	.66	.62	535676-3
5		.500 (12.70)	A26408-ND	.80	.74	535676-4
6		.600 (15.24)	A26409-ND	.90	.84	535676-5
8	A	.800 (20.32)	A26410-ND	1.11	1.03	535676-7
10		1.000 (25.40)	A26411-ND	1.35	1.25	535676-9
12		1.200 (30.48)	A26412-ND	2.09	1.94	1-535676-1
14		1.400 (35.56)	A26413-ND	2.39	2.21	1-535676-3
16		1.600 (40.64)	A26414-ND	2.70	2.50	1-535676-5
Fig. 2 — Mod. IV, Vertical Mount, Top Entry, End Stackable with Single Tine Contacts						
3	A	.300 (7.62)	A26415-ND	.64	.59	534237-1
4		.400 (10.16)	A26416-ND	.72	.67	534237-2
5		.500 (12.70)	A26417-ND	.80	.74	534237-3
6		.600 (15.24)	A26418-ND	.87	.81	534237-4
7		.700 (17.78)	A26419-ND	.93	.86	534237-5
8	A	.800 (20.32)	A26420-ND	1.01	.94	534237-6
10		1.000 (25.40)	A26421-ND	1.17	1.08	534237-8
12		1.200 (30.48)	A26422-ND	1.33	1.23	1-534237-0
13		1.300 (33.02)	A26423-ND	1.40	1.30	1-534237-1
14		1.400 (35.56)	A26424-ND	1.46	1.35	1-534237-2
15	A	1.500 (38.10)	A26425-ND	1.54	1.43	1-534237-3
16		1.600 (40.64)	A26426-ND	1.62	1.50	1-534237-4
18		1.800 (45.72)	A26427-ND	1.78	1.65	1-534237-6
20		2.000 (50.80)	A26428-ND	1.93	1.79	1-534237-8
30		3.000 (76.20)	A26429-ND	2.68	2.48	2-534237-8
Fig. 3 — Mod. IV, Vertical Mount, Top Entry, End Stackable, Low Profile with Single Tine Contacts						
3	A	.300 (7.62)	A26473-ND	.58	.54	535541-1
4		.400 (10.16)	A26474-ND	.66	.62	535541-2
5		.500 (12.70)	A26475-ND	.74	.69	535541-3
6		.600 (15.24)	A26476-ND	.80	.74	535541-4
8		.800 (20.32)	A26477-ND	.95	.89	535541-6
10	A	1.000 (24.40)	A26478-ND	1.11	1.03	535541-8
12		1.200 (30.48)	A26479-ND	1.27	1.18	1-535541-0
14		1.400 (35.56)	A26480-ND	1.40	1.30	1-535541-2
16		1.600 (40.64)	A26481-ND	1.56	1.45	1-535541-4
18		1.800 (45.72)	A26482-ND	1.72	1.60	1-535541-6
20	A	2.000 (50.80)	A26483-ND	1.86	1.72	1-535541-8
30		3.000 (76.20)	A26484-ND	2.62	2.43	2-535541-8
Double Row						
Fig. 4 — Mod. II, Horizontal Mount, End Stackable, Short Point-of-Contact with Standoffs						
4	A	.200 (5.08)	A26430-ND	.90	.84	6-535512-1
6		.300 (7.62)	A26431-ND	1.25	1.16	6-535512-2
8		.400 (10.16)	A26432-ND	1.56	1.45	6-535512-3
10		.500 (12.70)	A26433-ND	1.43	1.33	6-535512-4
12		.600 (15.24)	A26434-ND	2.23	2.06	535512-1
14	A	.700 (17.78)	A26435-ND	2.57	2.38	1-535512-7
16		.800 (20.32)	A26436-ND	2.20	2.04	1-535512-8
18		.900 (22.86)	A26437-ND	3.21	2.97	1-535512-6
20		1.000 (25.40)	A26438-ND	2.70	2.50	535512-2
22		1.100 (27.94)	A26439-ND	3.87	3.58	1-535512-9
24	A	1.200 (30.48)	A26440-ND	4.19	3.88	535512-3
26		1.300 (33.02)	A26441-ND	4.51	4.17	2-535512-0
28		1.400 (35.56)	A26442-ND	4.85	4.49	2-535512-1
30		1.500 (38.10)	A26443-ND	3.95	3.66	2-535512-2
32		1.600 (40.64)	A26444-ND	5.51	5.10	2-535512-3
34	A	1.700 (43.18)	A26445-ND	5.83	5.39	535512-4
36		1.800 (45.72)	A26446-ND	6.15	5.69	535512-5
40		2.000 (50.80)	A26447-ND	5.19	4.81	2-535512-5
50		2.500 (63.50)	A26448-ND	6.44	5.96	535512-7
60	A	3.000 (76.20)	A26449-ND	10.10	9.34	3-535512-0
70		3.500 (88.90)	A26450-ND	8.96	8.29	1-535512-0
Fig. 5 — Mod. IV, Vertical Mount, Top Entry, End Stackable, .100 x .100 (2.54 x 2.54mm) Mounting Pattern						
2	B	.100 (2.54)	A26451-ND	.58	.54	534206-1
4		.200 (5.08)	A26452-ND	.74	.69	534206-2
6		.300 (7.62)	A26453-ND	.90	.84	534206-3
8		.400 (10.16)	A26454-ND	1.06	.98	534206-4
10		.500 (12.70)	A26455-ND	1.22	1.13	534206-5
12	B	.600 (15.24)	A26456-ND	1.38	1.28	534206-6
14		.700 (17.78)	A26457-ND	1.56	1.45	534206-7
16		.800 (20.32)	A26458-ND	1.72	1.60	534206-8
18		.900 (22.86)	A26459-ND	1.88	1.74	534206-9
20		1.000 (25.40)	A26460-ND	2.04	1.89	1-534206-0
24	B	1.200 (30.48)	A26461-ND	2.36	2.19	1-534206-2
26		1.300 (33.02)	A26462-ND	2.52	2.33	1-534206-3
28		1.400 (35.56)	A26463-ND	2.70	2.50	1-534206-4
30		1.500 (38.10)	A26464-ND	2.86	2.65	1-534206-5
32		1.600 (40.64)	A26465-ND	3.02	2.80	1-534206-6
34	B	1.700 (43.18)	A26466-ND	3.18	2.94	1-534206-7
36		1.800 (45.72)	A26467-ND	3.34	3.09	1-534206-8
40		2.000 (50.80)	A26468-ND	3.68	3.41	2-534206-0
44		2.200 (55.88)	A26469-ND	4.00	3.70	2-534206-2
50		2.500 (63.50)	A26470-ND	4.48	4.15	2-534206-5
60	B	3.000 (76.20)	A26471-ND	5.30	4.90	3-534206-0
64		3.200 (81.28)	A26472-ND	5.64	5.22	3-534206-2
Fig. 6 — Mod. IV, Top Entry, End Stackable, Low Profile, .100 x .100 (2.54 x 2.54mm) Mounting Pattern						
8	B	.400 (10.16)	A26485-ND	1.01	.94	534998-4
10		.500 (12.70)	A26486-ND	1.17	1.08	534998-5
12		.600 (15.24)	A26487-ND	1.33	1.23	534998-6
14		.700 (17.78)	A26488-ND	1.48	1.38	534998-7
16		.800 (20.32)	A26489-ND	1.64	1.52	534998-8
20	B	1.000 (25.40)	A26490-ND	1.99	1.84	1-534998-0
24		1.200 (30.48)	A26491-ND	2.31	2.14	1-534998-2
26		1.300 (33.02)	A26492-ND	2.46	2.28	1-534998-3
28		1.400 (35.56)	A26493-ND	2.62	2.43	1-534998-4
30		1.500 (38.10)	A26494-ND	2.81	2.60	1-534998-5
32	B	1.600 (40.64)	A26495-ND	2.97	2.75	1-534998-6
34		1.700 (43.18)	A26496-ND	3.13	2.90	1-534998-7
36		1.800 (45.72)	A26497-ND	3.29	3.04	1-534998-8
40		2.000 (50.80)	A26498-ND	3.60	3.34	2-534998-0
50		2.500 (63.50)	A26499-ND	4.43	4.10	2-534998-5
60		3.000 (76.20)	A26500-ND	5.25	4.86	3-534998-0
Fig. 7 — Mod. IV, Bottom Entry, End Stackable, Low Profile, .100 x .300 (2.54 x 7.62mm) Mounting Pattern						
14	B	.700 (17.78)	A26501-ND	1.62	1.50	534267-1
20		1.000 (25.40)	A26502-ND	2.09	1.94	534267-2
30		1.500 (38.10)	A26503-ND	2.92	2.70	1-534267-2
36		1.800 (45.72)	A26504-ND	3.39	3.14	1-534267-5
40		2.000 (50.80)	A26505-ND	3.74	3.46	534267-7
48	B	2.400 (60.96)	A26506-ND	4.37	4.05	1-534267-1
60		3.000 (76.20)	A26507-ND	5.35	4.95	534267-8

MTE Interconnection System

The AMPMODU® MTE Interconnection System offers both wire-to-board and wire-to-wire connectors using .025" (0.64mm) square post technology.

FEATURES: • Insulation displacement technology • Plain housings are end-to-end and/or back-to-back stackable for open pin field applications

ELECTRICAL CHARACERISTICS: • Contact Current Rating: 3amp • Contact Termination Resistance: 15 milliohms (max.) • Dielectric Withstanding Voltage: 600 VAC, rms at sea level • Operating Temperature: -65°C to +105°C

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated • Contacts: Phosphor bronze

Contact Plating:

A: 30µ gold on contact area, 50µ min. tin-lead in crimp area, with entire contact underplated 50µ nickel

B: 15µ gold on contact area, 50µ min. tin-lead in crimp area, with entire contact underplated 50µ nickel

C: .100µ bright tin-lead over 50µ nickel on entire contact

Fig. 1 - Receptacle

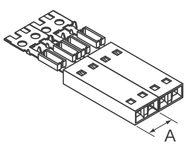


Fig. 2 - Receptacle

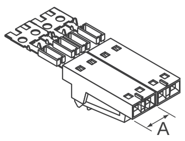
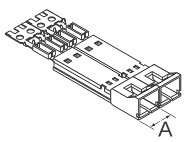


Fig. 3 - Pin

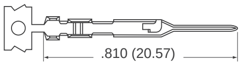


No. of Pos.	Housing Qty. / Strip Segment	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
RECEPTACLE ASSEMBLIES Single Row .100" (2.54mm), 26-22 AWG							
Strip Form Plain — Fig. 1							
2	10	A	.198 (5.03)	A28349-ND	.47	.43	103976-1
		B		A28350-ND	1.17	1.06	103975-1
		C		A28351-ND	.48	.44	103974-1
		Unloaded Housings		A28352-ND†	.19	.18	103688-1
3	8	A	.298 (7.57)	A28353-ND	.51	.47	103976-2
		B		A28354-ND	1.78	1.61	103975-2
		C		A28355-ND	.57	.52	103974-2
		Unloaded Housings		A28356-ND†	.63	.57	103688-2
4	5	A	.398 (10.11)	A28357-ND	.62	.57	103976-3
		B		A28358-ND	2.12	1.93	103975-3
		C		A28359-ND	1.91	1.74	103974-3
		Unloaded Housings		A28360-ND†	.62	.57	103688-3
5	4	A	.498 (12.65)	A28361-ND	.66	.60	103976-4
		B		A28362-ND	.64	.59	103975-4
		C		A28363-ND†	.65	.59	103974-4
6	4	A	.598 (15.19)	A28364-ND	.79	.72	103976-5
		B		A28365-ND	.77	.70	103975-5
		C		A28366-ND	.69	.63	103974-5
		Unloaded Housings		A28367-ND†	.86	.78	103688-5
7	2	A	.698 (17.73)	A28368-ND	1.05	.95	103976-6
		B		A28369-ND	.99	.90	103975-6
		C		A28370-ND	1.11	1.01	103974-6
		Unloaded Housings		A28371-ND†	.43	.39	103688-6
8	2	A	.798 (20.27)	A28372-ND	1.17	1.06	103976-7
		B		A28373-ND	1.10	1.00	103975-7
		C		A28374-ND	1.23	1.11	103974-7
		Unloaded Housings		A28375-ND†	.46	.42	103688-7
9	2	A	.898 (22.81)	A28376-ND	1.10	1.00	103976-8
		C		A28377-ND	1.05	.96	103974-8
		Unloaded Housings		A28378-ND†	.46	.42	103688-8
10	2	A	.998 (23.35)	A28379-ND	1.20	1.09	103976-9
		B		A28380-ND	1.15	1.04	103975-9
		C		A28381-ND	3.51	3.18	103974-9
		Unloaded Housings		A28382-ND†	.48	.44	103688-9
11	2	B	1.098 (27.89)	A28383-ND	1.40	1.27	1-103975-0
		C		A28384-ND	1.54	1.40	1-103974-0
		Unloaded Housings		A28385-ND†	.54	.49	1-103688-0
12	2	A	1.198 (30.43)	A28386-ND	1.41	1.29	1-103976-1
		B		A28387-ND	1.51	1.37	1-103975-1
		C		A28388-ND	3.66	3.32	1-103974-1
		Unloaded Housings		A28389-ND†	.58	.53	1-103688-1
Strip Form Polarized/Latching — Fig. 2							
2	10	A	.198 (5.03)	A28390-ND	.40	.37	103958-1
		B		A28391-ND	.37	.34	103957-1
		C		A28392-ND	.34	.32	103956-1
		Unloaded Housings		A28393-ND†	.17	.15	104257-1
3	8	A	.298 (7.57)	A28394-ND	.50	.46	103958-2
		B		A28395-ND	.41	.37	103957-2
		C		A28396-ND	.41	.38	103956-2
		Unloaded Housings		A28397-ND†	.24	.22	104257-2
4	5	A	.398 (10.11)	A28398-ND	.61	.56	103958-3
		B		A28399-ND	.53	.48	103957-3
		C		A28400-ND	.48	.44	103956-3
		Unloaded Housings		A28401-ND†	.28	.26	104257-3
5	4	A	.498 (12.65)	A28402-ND	.75	.68	103958-4
		B		A28403-ND	.64	.59	103957-4
		C		A28404-ND	.59	.54	103956-4
		Unloaded Housings		A28405-ND†	.30	.28	104257-4
6	4	A	.598 (15.19)	A28406-ND	.89	.81	103958-5
		B		A28407-ND	.77	.70	103957-5
		C		A28408-ND	1.74	1.58	103956-5
		Unloaded Housings		A28409-ND†	.31	.29	104257-5
7	2	A	.698 (17.73)	A28410-ND	1.03	.94	103958-6
		B		A28411-ND	.88	.81	103957-6
		C		A28412-ND	.81	.73	103956-6
		Unloaded Housings		A28413-ND†	.35	.33	104257-6
8	2	A	.798 (20.27)	A28414-ND	1.14	1.04	103958-7
		B		A28415-ND	.98	.89	103957-7
		C		A28416-ND	.89	.81	103956-7
		Unloaded Housings		A28417-ND†	.37	.34	104257-7
9	2	A	.898 (22.81)	A28418-ND	1.24	1.13	103958-8
		B		A28419-ND	4.87	4.41	103957-8
		C		A28420-ND	.95	.87	103956-8
		Unloaded Housings		A28421-ND†	.42	.39	104257-8
10	2	A	.998 (23.35)	A28422-ND	1.35	1.23	103958-9
		B		A28423-ND	1.15	1.04	103957-9
		C		A28424-ND	1.03	.94	103956-9
		Unloaded Housings		A28425-ND†	.44	.41	104257-9
11	2	A	1.098 (27.89)	A28426-ND	1.47	1.34	1-103958-0
		B		A28427-ND	2.67	2.42	1-103957-0
		C		A28428-ND	1.12	1.02	1-103956-0
		Unloaded Housings		A28429-ND†	1.08	.98	1-104257-0
12	2	A	1.198 (30.43)	A28430-ND	1.59	1.44	1-103958-1
		B		A28431-ND	1.34	1.22	1-103957-1
		C		A28432-ND	1.21	1.10	1-103956-1
		Unloaded Housings		A28433-ND†	.53	.49	1-104257-1
14	1	Unloaded Housings	1.398 (35.51)	A26854-ND†	.67	.61	1-104257-3
15		Unloaded Housings	1.498 (38.05)	A26855-ND†	.85	.78	1-104257-4
16		Unloaded Housings	1.598 (40.59)	A26856-ND†	.91	.82	1-104257-5
17		Unloaded Housings	1.698 (43.13)	A26857-ND†	.94	.85	1-104257-6
20		Unloaded Housings	1.998 (50.75)	A26858-ND†	.92	.84	1-104257-9
PIN ASSEMBLIES (contacts sold below for unloaded pin housing) Single Row .100" (2.54mm), 26-22 AWG							
Strip Form Polarized/Latching — Fig. 3							
2	8	A	.295 (7.49)	A28434-ND	.67	.62	103946-1
		B		A28435-ND	.66	.60	103945-1
		C		A28436-ND	.64	.58	103944-1
		Unloaded Housings		A28437-ND	.43	.36	103653-1
3	5	A	.395 (10.03)	A28438-ND	1.85	1.68	103946-2
		B		A28439-ND	.70	.64	103945-2
		C		A28440-ND	.66	.61	103944-2
		Unloaded Housings		A28441-ND	.45	.38	103653-2
4	4	A	.495 (12.57)	A28442-ND	3.87	3.51	103946-3
		B		A28443-ND	.79	.72	103945-3
		C		A28444-ND	.75	.68	103944-3
		Unloaded Housings		A28445-ND	.54	.46	103653-3
5	4	A	.595 (15.11)	A28446-ND	.88	.80	103946-4
		B		A28447-ND	.82	.75	103945-4
		C		A28448-ND	3.53	3.20	103944-4
		Unloaded Housings		A28449-ND	.45	.38	103653-4
6	2	A	.695 (17.05)	A28450-ND	4.45	4.04	103946-5
		B		A28451-ND	.90	.82	103945-5
		C		A28452-ND	.83	.76	103944-5
		Unloaded Housings		A28453-ND	.45	.38	103653-5
7	3	A	.795 (20.19)	A28454-ND	1.19	1.08	103946-6
		B		A28455-ND	3.38	3.06	103945-6
		C		A28456-ND	3.09	2.81	103944-6
		Unloaded Housings		A28457-ND	2.12	1.52	103653-6
8	2	A	.895 (22.73)	A28458-ND	1.82	1.66	103946-7
		B		A28459-ND	1.68	1.52	103945-7
		C		A28460-ND	1.53	1.39	103944-7
		Unloaded Housings		A28461-ND	.99	.83	103653-7
9	2	A	.995 (25.27)	A28462-ND	1.17	1.07	103946-8
		B		A28463-ND	1.07	.97	103945-8
		C		A28464-ND	.97	.88	103944-8
		Unloaded Housings		A28465-ND	2.00	1.43	103653-8
10	2	A	1.095 (27.81)	A28466-ND	1.46	1.33	103946-9
		B		A28467-ND	2.59	2.35	103945-9
		C		A28468-ND	1.34	1.22	103944-9
		Unloaded Housings		A28469-ND	1.43	1.30	103653-9
11	2	A	1.195 (30.35)	A28470-ND	2.87	2.60	1-103946-0
		B		A28471-ND	9.72	8.81	1-103945-0
		Unloaded Housings		A28472-ND	1.94	1.77	1-103653-0
12	1	Unloaded Housings	1.295 (32.89)	A28754-ND	2.27	2.06	1-103653-1
14		Unloaded Housings	1.495 (37.97)	A28755-ND	2.57	2.34	1-103653-3
15		Unloaded Housings	1.595 (40.51)	A28756-ND	.92	.84	1-103653-4
16		Unloaded Housings	1.695 (43.05)	A28757-ND	3.65	3.31	1-103653-5
17		Unloaded Housings	1.795 (45.59)	A26852-ND	2.17	1.97	1-103653-6
20		Unloaded Housings	2.095 (53.21)	A28792-ND	1.00	.91	1-103653-9

† For Female contacts see "Short Point Contacts" bottom of page 118.

Interchangeable Contacts Wire Crimp (Snap-In) Pins

Material: Phosphor bronze. **Specification:** Contact: standard pressure
Contact Plating: A: 30µ gold on contact area, 30µ min. tin-lead in crimp area, with entire contact underplated 50µ nickel **B:** 15µ gold on contact area, 30µ min. tin-lead in crimp area, with entire post underplated 50µ nickel **C:** 100µ min. bright tin-lead over 50µ nickel on entire contact



Wire Size (AWG)	Insulation Dia. Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel 12,500	AMP Part No.
28-32	.025-.054 (.64-1.37)	A	A28336-ND	2.26	19.20	104506-7	—	—	—	—	—	—
		B	A28337-ND	2.10	17.86	104506-5	—	—	—	—	—	—
22-26	.036-.054 (.91-1.37)	A	A28339-ND	3.95	34.79	104505-7	A28339CT-ND	128.87	234.30	A28339TR-ND	126.53/M	104505-6
		B	A28341-ND	3.68	32.36	104505-5	A28341CT-ND	100.07	181.95	A28341TR-ND	98.26/M	104505-4
		C	A28343-ND	1.87	16.43	104505-3	A28343CT-ND	94.50	171.83	A28343TR-ND	92.79/M	104505-2

ASKP02-ND	Keying Plug - 10 Comb	**$.93 each**
A28345-ND	Crimp Hand Tool for 28-32 AWG (loose piece product)	**$616.46 each**
A28718-ND	Head Assembly Tool (use with A2031-ND for loaded housing)	**$747.00 each**
A2031-ND	Manual Pistol Grip Tool (loaded housing product)	**$55.50 each**

Protected Headers - .100” (2.54mm) Centers

MATERIAL: Housing: Black thermoplastic, 94V-0 rated **Posts:** Copper alloy

Contact Plating:

A: 30µ gold on contact area, 100µ to 200µ tin-lead on solder area, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ to 200µ tin-lead on solder area, with entire post underplated 50µ nickel

C: 100µ to 200µ tin-lead over 50µ nickel on entire post

Fig. 1

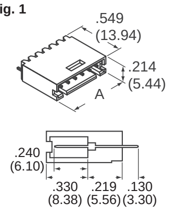


Fig. 2

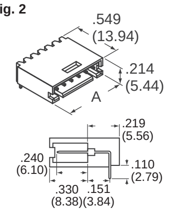


Fig. 3

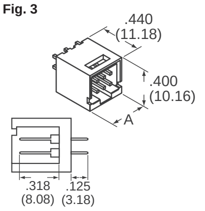


Fig. 4

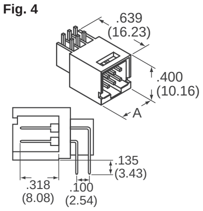
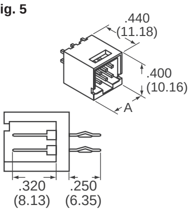


Fig. 5



No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Single Row						
Fig. 1 — .025” (.64mm) Square Straight Post, with Standoffs						
3	A	.420 (10.67)	A26612-ND	1.05	.95	103414-1
	B		A26613-ND	1.07	.97	3-102202-4
	C		A26614-ND	.99	.90	103080-1
4	A	.520 (13.21)	A26615-ND	1.14	1.03	103414-2
	B		A26616-ND	1.11	1.01	102202-1
	C		A26617-ND	1.08	.98	103080-2
5	A	.620 (15.75)	A26618-ND	1.56	1.41	103414-3
	B		A26619-ND	1.35	1.22	102202-2
	C		A26620-ND	1.27	1.15	103080-3
6	A	.720 (18.29)	A26621-ND	1.47	1.33	103414-4
	B		A26623-ND	1.41	1.27	102202-3
	C		A26624-ND	1.35	1.22	103080-4
7	A	.820 (20.83)	A26625-ND	1.53	1.38	103414-5
	B		A26626-ND	1.44	1.30	102202-4
	C		A26627-ND	1.41	1.27	103080-5
8	A	.920 (23.37)	A26628-ND	1.65	1.49	103414-6
	B		A26629-ND	1.56	1.41	102202-5
	C		A26630-ND	1.50	1.35	103080-6
9	B	1.020 (25.91)	A26631-ND	1.68	1.52	102202-6
10	A	1.120 (28.45)	A26632-ND	1.83	1.65	103414-8
	B		A26633-ND	1.71	1.54	102202-7
	C		A26634-ND	1.65	1.49	103080-8
11	B	1.220 (30.99)	A26635-ND	1.83	1.65	102202-8
12	A	1.320 (33.53)	A26636-ND	2.13	1.92	1-103414-0
	B		A26637-ND	1.95	1.76	102202-9
	C		A26638-ND	1.86	1.68	1-103080-0
13	A	1.420 (36.07)	A26639-ND	2.16	1.95	1-103414-1
	B		A26640-ND	2.04	1.84	1-102202-0
	C		A26641-ND	1.98	1.79	1-103080-1
14	A	1.520 (38.61)	A26642-ND	2.28	2.06	1-103414-2
	B		A26643-ND	2.13	1.92	1-102202-1
	C		A26644-ND	2.07	1.87	1-103080-2
16	A	1.720 (43.69)	A26645-ND	2.52	2.27	1-103414-4
	B		A26646-ND	2.34	2.11	1-102202-3
	C		A26647-ND	2.31	2.08	1-103080-4
18	A	1.920 (48.77)	A26648-ND	2.73	2.46	1-103414-6
	B		A26649-ND	2.58	2.33	1-102202-5
	C		A26650-ND	2.40	2.16	1-103080-6
20	A	2.120 (53.85)	A26651-ND	3.03	2.73	1-103414-8
	B		A26652-ND	2.82	2.54	1-102202-7
	C		A26653-ND	2.64	2.38	1-103080-8
Fig. 2 — .025” (.64mm) Square Right Angle Post, with Standoffs						
3	A	.420 (10.67)	A26654-ND	1.08	.98	103361-1
	B		A26655-ND	1.11	1.01	3-102203-4
	C		A26656-ND	.93	.84	102523-2
4	A	.520 (13.21)	A26657-ND	1.26	1.14	103361-2
	B		A26658-ND	1.23	1.11	102203-1
	C		A26659-ND	1.02	.92	102523-1
5	A	.620 (15.75)	A26660-ND	1.41	1.27	103361-3
	B		A26661-ND	1.35	1.22	102203-2
	C		A26662-ND	1.14	1.03	102523-3
6	A	.720 (18.29)	A26663-ND	1.47	1.33	103361-4
	B		A26664-ND	1.41	1.27	102203-3
	C		A26665-ND	1.14	1.03	102523-4
7	A	.820 (20.83)	A26666-ND	1.65	1.49	103361-5
	B		A26667-ND	1.56	1.41	102203-4
	C		A26668-ND	1.26	1.14	102523-5
8	A	.920 (23.37)	A26669-ND	1.77	1.60	103361-6
	B		A26670-ND	1.65	1.49	102203-5
	C		A26671-ND	1.29	1.17	102523-6
10	A	1.120 (28.45)	A26672-ND	1.98	1.79	103361-8
	B		A26673-ND	1.83	1.65	102203-7
	C		A26674-ND	1.41	1.27	102523-8
12	A	1.320 (33.53)	A26675-ND	2.19	1.98	1-103361-0
	B		A26676-ND	2.10	1.89	102203-9
	C		A26677-ND	1.53	1.38	1-102523-0
14	A	1.520 (38.61)	A26678-ND	2.43	2.19	1-103361-2
	B		A26679-ND	2.28	2.06	1-102203-1
	C		A26680-ND	1.62	1.46	1-102523-2
15	C	1.620 (41.15)	A26681-ND	3.15	2.84	1-102203-2
16	A	1.720 (43.69)	A26682-ND	2.73	2.46	1-103361-4
	B		A26683-ND	2.55	2.30	1-102203-3
	C		A26684-ND	1.74	1.57	1-102523-4
18	B	1.920 (48.77)	A26685-ND	2.76	2.49	1-102203-5
20	A	2.120 (53.85)	A26686-ND	3.33	3.00	1-103361-8
	B		A26687-ND	3.06	2.76	1-102203-7
	C		A26688-ND	1.95	1.76	1-102523-8
24	A	2.520 (64.00)	A26689-ND	4.26	3.84	2-103361-2
Double Row - .066” (1.68mm) Pin to Shroud End Dimension						
Fig. 3 — .025” (.64mm) Square Straight Post, with Detent Windows						
6	A	.412 (10.46)	A26708-ND	1.11	1.00	103168-1
	B		A26709-ND	.90	.81	102618-1
	C		A26710-ND	2.46	2.22	3-87589-6
8	A	.512 (13.00)	A26711-ND	1.38	1.25	103168-2
	B		A26712-ND	1.17	1.06	102618-2
	C		A26713-ND	.99	.90	3-87589-5
10	A	.612 (15.54)	A26714-ND	1.65	1.49	103168-3
	B		A26715-ND	1.35	1.22	102618-3
	C		A26716-ND	2.67	2.41	87589-1
12	A	.712 (18.08)	A26717-ND	1.92	1.73	103168-4
	B		A26718-ND	1.43	1.29	102618-4
	C		A26719-ND	1.26	1.05	87589-2
14	A	.812 (20.62)	A26720-ND	2.16	1.95	103168-5
	B		A26721-ND	1.71	1.54	102618-5
	C		A26722-ND	1.41	1.27	87589-3
16	A	.912 (23.16)	A26723-ND	2.46	2.22	103168-6
	B		A26724-ND	1.92	1.73	102618-6
	C		A26725-ND	1.59	1.44	87589-4
18	A	1.012 (25.70)	A26726-ND	2.70	2.43	103168-7
	B		A26727-ND	2.13	1.92	102618-7
	C		A26728-ND	3.72	3.35	87589-5
20	A	1.112 (28.24)	A26729-ND	2.94	2.65	103168-8
	B		A26730-ND	2.31	2.08	102618-8
	C		A26731-ND	4.02	3.62	87589-6
22	A	1.212 (30.78)	A26732-ND	3.18	2.87	103168-9
	B		A26733-ND	2.52	2.27	102618-9
	C		A26734-ND	1.95	1.76	87589-7
24	A	1.312 (33.32)	A26735-ND	3.45	3.11	1-103168-0
	B		A26736-ND	2.70	2.43	1-102618-0
	C		A26737-ND	2.19	1.98	87589-8
26	A	1.412 (35.86)	A26738-ND	3.72	3.35	1-103168-1
	B		A26739-ND	2.85	2.57	1-102618-1
	C		A26740-ND	2.31	2.08	87589-9
30	A	1.612 (40.94)	A26741-ND	4.23	3.81	1-103168-3
	B		A26742-ND	3.30	2.97	1-102618-3
	C		A26743-ND	2.64	2.38	1-87589-1
34	A	1.812 (46.02)	A26744-ND	4.77	4.30	1-103168-5
	B		A26745-ND	3.66	3.30	1-102618-5
	C		A26746-ND	2.94	2.65	1-87589-3
40	A	2.112 (53.64)	A26747-ND	5.55	5.00	1-103168-8
	B		A26748-ND	4.26	3.84	1-102618-8
	C		A26749-ND	3.42	3.08	1-87589-6
50	A	2.612 (66.34)	A26750-ND	6.90	6.21	2-103168-3
	B		A26751-ND	5.28	4.76	2-102618-3
	C		A26752-ND	4.20	3.78	2-87589-1
60	A	3.112 (79.04)	A26753-ND	8.16	7.35	2-103168-8
	B		A26754-ND	6.27	5.65	2-102618-8
	C		A26755-ND	4.98	4.49	2-87589-6
Fig. 4 — .025” (.64mm) Square Right-Angle Post, with Detent Windows						
6	A	.412 (10.46)	A26756-ND	1.11	1.00	103166-1
	B		A26757-ND	.96	.87	102617-1
	C		A26758-ND	2.10	1.89	3-87579-5
8	A	.512 (13.00)	A26759-ND	1.44	1.30	103166-2
	B		A26760-ND	1.23	1.11	102617-2
	C		A26761-ND	2.97	2.68	87579-1
10	A	.612 (15.54)	A26762-ND	1.71	1.54	103166-3
	B		A26763-ND	1.44	1.30	102617-3
	C		A26764-ND	1.23	1.11	87579-2
12	A	.712 (18.08)	A26765-ND	1.95	1.76	103166-4
	B		A26766-ND	1.62	1.46	102617-4
	C		A26767-ND	1.38	1.25	87579-3
14	A	.812 (20.62)	A26768-ND	2.25	2.03	103166-5
	B		A26769-ND	1.83	1.65	102617-5
	C		A26770-ND	1.53	1.38	87579-4
16	A	.912 (23.16)	A26771-ND	2.46	2.22	103166-6
	B		A26772-ND	2.01	1.81	102617-6
	C		A26773-ND	1.68	1.52	87579-5
18	A	1.012 (25.70)	A26774-ND	2.76	2.49	103166-7
	B		A26775-ND	2.22	2.00	102617-7
	C		A26776-ND	1.83	1.65	87579-6
20	A	1.112 (28.24)	A26777-ND	3.00	2.70	103166-8
	B		A26778-ND	2.46	2.22	102617-8
	C		A26779-ND	2.01	1.81	87579-7
24	A	1.312 (33.32)	A26780-ND	3.81	3.43	1-103166-0
	B		A26781-ND	3.33	3.00	1-102617-0
	C		A26782-ND	3.18	2.87	87579-9
26	A	1.412 (35.86)	A26783-ND	3.84	3.46	1-103166-1
	B		A26784-ND	3.12	2.81	1-102617-1
	C		A26785-ND	2.58	2.33	1-87579-0
30	A	1.612 (40.94)	A26786-ND	4.62	4.16	1-103166-3
	B		A26787-ND	3.57	3.22	1-102617-3
	C		A26788-ND	2.91	2.62	1-87579-2
34	A	1.812 (46.02)	A26789-ND	4.98	4.49	1-103166-5
	B		A26790-ND	4.02	3.62	1-102617-5
40	A	2.112 (53.64)	A26791-ND	5.76	5.19	1-103166-8
	B		A26792-ND	4.65	4.19	1-102617-8
	C		A26793-ND	3.78	3.41	1-87579-7
50	A	2.612 (66.34)	A26794-ND	7.08	6.38	2-103166-3
	B		A26795-ND	5.70	5.13	2-102617-3
	C		A26796-ND	4.65	4.19	2-87579-2
Fig. 5 — ACTION PIN .025” (.64mm) Square Straight Post, with Detent Windows						
6	A	.412 (10.46)	A26690-ND	5.73	4.78	102699-2
8		.512 (13.00)	A26692-ND	6.69	5.58	102699-3
10		.612 (15.54)	A26694-ND	8.31	6.93	102699-4
16		.912 (23.16)	A26696-ND	9.99	8.33	102699-7
20		1.112 (28.24)	A26698-ND	12.36	10.30	102699-9
26	A	1.412 (35.86)	A26700-ND	11.73	10.56	1-102699-2
30		1.612 (40.94)	A26702-ND	12.36	10.30	1-102699-4
40		2.112 (53.64)	A26704-ND	14.19	12.78	1-102699-9
60		3.112 (79.04)	A26706-ND	17.64	14.70	2-102699-8
Double Row - .150” (3.81mm) Pin to Shroud End Dimension						
Fig. 3 — .025” (.64mm) Square Straight Post, with Detent Windows						
6	A	.580 (14.73)	A26815-ND	1.11	.93	103169-1
	B		A26816-ND	2.67	2.41	102619-1
8	A	.680 (17.27)	A26817-ND	1.38	1.15	103169-2
	B		A26818-ND	1.17	1.06	102619-2
10	A	.780 (19.81)	A26819-ND	1.65	1.38	103169-3
	B		A26820-ND	1.35	1.13	102619-3
12	A	.880 (22.35)	A26821-ND	1.92	1.60	103169-4
	B		A26822-ND	3.33	3.00	102619-4
14	A	.980 (24.89)	A26823-ND	2.16	1.80	103169-5
	B		A26824-ND	1.71	1.43	102619-5
16	A	1.080 (27.43)	A26825-ND	2.55	2.13	103169-6
	B		A26826-ND	1.92	1.60	102619-6
18	A	1.180 (29.97)	A26827-ND	2.70	2.25	103169-7
20	A	1.280 (32.51)	A26828-ND	3.02	2.52	103169-8
	B		A26829-ND	2.31	1.93	102619-8
24	A	1.480 (37.59)	A26830-ND	6.00	5.00	1-103169-0
	B		A26831-ND	2.70	2.25	1-102619-0
26	A	1.580 (40.13)	A26832-ND	3.72	3.10	1-103169-1
	B		A26833-ND	2.85	2.38	1-102619-1
30	A	1.780 (45.21)	A26834-ND	4.23	3.53	1-103169-3
	B		A26835-ND	3.27	2.73	1-102619-3
34	A	1.980 (50.29)	A26836-ND	4.77	3.98	1-103169-5
	B		A26837-ND	3.66	3.05	1-102619-5
40	A	2.280 (57.91)	A26838-ND	5.55	4.63	1-103169-8
	B		A26839-ND	4.26	3.55	1-102619-8
50	A	2.780 (70.61)	A26840-ND	7.17	5.98	2-103169-3
	B		A26841-ND	5.28	4.40	2-102619-3
60	A	3.280 (83.31)	A26842-ND	8.16	6.80	2-103169-8
	B		A26843-ND	6.27	5.65	2-102619-8
Fig. 4 — .025” (.64mm) Square Right-Angle Post, with Detent Windows						
10	A	.780 (19.81)	A26797-ND	1.71	1.43	103167-2
	B		A26798-ND	1.44	1.20	102570-3
12	A	.880 (22.35)	A26799-ND	1.95	1.63	103167-3
	B		A26800-ND	1.62	1.46	102570-4
14	A	.980 (24.89)	A26801-ND	2.22	1.85	103167-4
	B		A26802-ND	1.83	1.65	102570-5
16	A	1.080 (27.43)	A26803-ND	4.29	3.58	103167-5
	B		A26804-ND	2.04	1.70	102570-6
20	A	1.280 (32.51)	A26805-ND	3.10	2.59	103167-7
	B		A26806-ND	2.46	2.05	102570-8
24	A	1.480 (37.59)	A26807-ND	3.99	3.33	103167-9
	B		A26808-ND	3.48	3.14	1-102570-0
26	A	1.580 (40.13)	A26809-ND	3.84	3.20	1-103167-0
	B		A26810-ND	3.12	2.60	1-102570-1
34	A	1.980 (50.29)	A26811-ND	5.19	4.33	1-103167-4
	B		A26813-ND	4.02	3.62	1-102570-5
40	B	2.280 (57.91)	A26814-ND	4.65	3.88	102570-1
Fig. 5 — ACTION PIN .025” (.64mm) Square Straight Post, with Detent Windows						
6	A	.580 (14.73)	A26691-ND	6.45	5.81	1-102557-0
8		.680 (17.27)	A26693-ND	7.05	6.35	1-102557-1
10		.780 (19.81)	A26695-ND	8.31	6.93	102557-9
16		1.080 (27.43)	A26697-ND	9.99	9.00	1-102557-4
20		1.280 (32.51)	A26699-ND	10.77	8.98	102557-2
30	A	1.780 (45.21)	A26703-ND	12.36	11.13	102557-4
40		2.280 (57.91)	A26705-ND	14.19	11.83	102557-1
60		3.280 (83.31)	A26707-ND	17.64	15.88	102557-7

MTE Protected Latching Headers - .100” (2.54mm) Centers

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated • Posts: Copper alloy

Contact Plating:

A: 30µ gold on contact area, 100µ min. tin-lead on solder area, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ min., tin-lead on solder area, with entire post underplated 50µ nickel

C: 100µ Tin-lead over 50µ nickel on entire post

Fig. 1

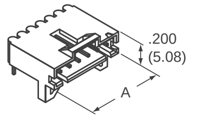


Fig. 2

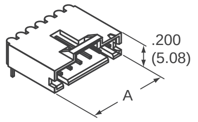


Fig. 3

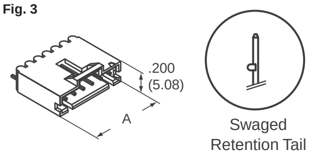


Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Holddown

No. of Pos.	Plat-ing	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28574-ND	.51	.46	103904-1
	B		A28575-ND	.48	.44	103673-1
	C		A28576-ND	.38	.35	103672-1
3	A	.400 (10.16)	A28577-ND	1.44	1.30	103904-2
	B		A28578-ND	.49	.45	103673-2
	C		A28579-ND	.45	.41	103672-2
4	A	.500 (12.70)	A28580-ND	.60	.55	103904-3
	B		A28581-ND	.55	.50	103673-3
	C		A28582-ND	.51	.46	103672-3
5	A	.600 (15.24)	A28583-ND	.73	.66	103904-4
	B		A28584-ND	.66	.60	103673-4
	C		A28585-ND	1.52	1.37	103672-4
6	A	.700 (17.78)	A28586-ND	1.79	1.61	103904-5
	B		A28587-ND	.66	.60	103673-5
	C		A28588-ND	1.54	1.39	103672-5
7	A	.800 (20.32)	A28589-ND	1.91	1.72	103904-6
	B		A28590-ND	.71	.64	103673-6
	C		A28591-ND	1.61	1.46	103672-6
8	A	.900 (22.86)	A28592-ND	2.03	1.83	103904-7
	B		A28593-ND	.76	.69	103673-7
	C		A28594-ND	1.69	1.52	103672-7
9	B	1.000 (25.40)	A28595-ND	.81	.74	103673-8
10	A	1.100 (27.94)	A28596-ND	4.60	4.15	103904-9
	B		A28597-ND	.87	.79	103673-9
	C		A28598-ND	.74	.67	103672-9
11	B	1.200 (30.48)	A28599-ND	4.45	4.01	1-103673-0
	C		A28600-ND	.82	.75	1-103672-0
12	A	1.300 (33.02)	A28601-ND	1.17	1.06	1-103904-1
	B		A28602-ND	1.02	.92	1-103673-1
	C		A28603-ND	3.99	3.59	1-103672-1
14	A	1.500 (38.10)	A28605-ND	1.39	1.25	1-103904-3
	B		A28606-ND	1.23	1.11	1-103673-3
15	B	1.600 (40.64)	A28607-ND	1.18	1.07	1-103673-4
16	B	1.700 (43.18)	A28608-ND	5.69	5.13	1-103673-5
	C		A28609-ND	4.74	4.27	1-103672-5
17	B	1.800 (45.72)	A28522-ND	5.89	5.30	1-103673-6
	C		A28556-ND	1.06	.96	1-103672-6
20	A	2.100 (53.34)	A28612-ND	1.69	1.53	1-103904-9
	B		A28613-ND	3.07	2.77	1-103673-9

Fig. 2 — Single Row, .025” (.64mm) Square Right Angle Post, without Holddown

No. of Pos.	Plat-ing	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28618-ND	.47	.43	103906-1
	B		A28619-ND	.41	.37	103635-1
	C		A28620-ND	.42	.38	103634-1
3	A	.400 (10.16)	A28621-ND	.58	.53	103906-2
	B		A28622-ND	.45	.41	103635-2
	C		A28623-ND	.45	.41	103634-2
4	A	.500 (12.70)	A28624-ND	.60	.55	103906-3
	B		A28625-ND	.51	.46	103635-3
	C		A28626-ND	.55	.50	103634-3
5	A	.600 (15.24)	A28627-ND	.73	.66	103906-4
	B		A28628-ND	.56	.51	103635-4
	C		A28629-ND	.54	.49	103634-4
6	A	.700 (17.78)	A28630-ND	1.57	1.42	103906-5
	B		A28631-ND	.61	.55	103635-5
	C		A28632-ND	.63	.57	103634-5
7	A	.800 (20.32)	A28633-ND	1.71	1.54	103906-6
	B		A28634-ND	.71	.64	103635-6
	C		A28635-ND	1.35	1.22	103634-6
8	A	.900 (22.86)	A28636-ND	.86	.78	103906-7
	B		A28637-ND	.70	.64	103635-7
	C		A28638-ND	.66	.60	103634-7
9	A	1.000 (25.40)	A28639-ND	1.02	.92	103906-8
	B		A28640-ND	.81	.74	103635-8
	C		A28641-ND	1.50	1.36	103634-8
10	A	1.100 (27.94)	A28642-ND	1.00	.90	103906-9
	B		A28643-ND	.87	.79	103635-9
	C		A28644-ND	.74	.67	103634-9
11	A	1.200 (30.48)	A28645-ND	1.11	1.00	1-103906-0
	B		A28646-ND	.96	.87	1-103635-0
	C		A28647-ND	2.17	1.96	1-103634-0
12	A	1.300 (33.02)	A28648-ND	1.28	1.15	1-103906-1
	B		A28649-ND	1.02	.92	1-103635-1
	C		A28650-ND	4.11	3.71	1-103634-1
14	A	1.500 (38.10)	A28653-ND	1.31	1.18	1-103906-3
	B		A28654-ND	5.19	4.68	1-103635-3
	C		A28655-ND	.95	.86	1-103634-3
15	B	1.600 (40.64)	A28656-ND	5.44	4.90	1-103635-4
	C		A28657-ND	.99	.89	1-103634-4
16	B	1.700 (43.18)	A28658-ND	5.69	5.13	1-103635-5
	C		A28659-ND	4.74	4.27	1-103634-5
17	A	1.800 (45.72)	A28557-ND	6.89	6.21	1-103906-6
20	A	2.100 (53.34)	A28661-ND	1.84	1.66	1-103906-9
	B		A28662-ND	3.07	2.77	1-103635-9

Polarized

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, with Swage Retention Tail

No. of Pos.	Plat-ing	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28473-ND	.43	.39	103908-1
	B		A28474-ND	.41	.37	103670-1
	C		A28475-ND	.38	.35	103669-1
3	A	.400 (10.16)	A28476-ND	.49	.45	103908-2
	B		A28477-ND	.45	.41	103670-2
	C		A28478-ND	.42	.38	103669-2
4	A	.500 (12.70)	A28479-ND	.56	.51	103908-3
	B		A28480-ND	.51	.46	103670-3
	C		A28481-ND	.46	.42	103669-3
5	A	.600 (15.24)	A28482-ND	.62	.56	103908-4
	B		A28483-ND	.56	.51	103670-4
	C		A28484-ND	.50	.45	103669-4
6	A	.700 (17.78)	A28485-ND	.68	.61	103908-5
	B		A28486-ND	.61	.55	103670-5
	C		A28487-ND	.54	.49	103669-5
7	A	.800 (20.32)	A28488-ND	.80	.72	103908-6
	B		A28489-ND	.77	.70	103670-6
	C		A28490-ND	.62	.56	103669-6
8	A	.900 (22.86)	A28491-ND	.86	.78	103908-7
	B		A28492-ND	.76	.69	103670-7
	C		A28493-ND	.66	.60	103669-7
9	A	1.000 (25.40)	A28494-ND	.86	.78	103908-8
	B		A28495-ND	.81	.74	103670-8
	C		A28496-ND	1.92	1.73	103669-8
10	A	1.100 (27.94)	A28497-ND	.92	.83	103908-9
	B		A28498-ND	.95	.86	103670-9
	C		A28499-ND	.68	.62	103669-9
11	A	1.200 (30.48)	A28500-ND	5.10	4.59	1-103908-0
	B		A28501-ND	4.45	4.01	1-103670-0
	C		A28502-ND	.82	.75	1-103669-0
12	A	1.300 (33.02)	A28503-ND	1.17	1.06	1-103908-1
	B		A28504-ND	1.02	.92	1-103670-1
	C		A28505-ND	3.99	3.59	1-103669-1
14	A	1.500 (38.10)	A28508-ND	6.21	5.59	1-103908-3
	B		A28509-ND	5.36	4.83	1-103670-3
	C		A28510-ND	.95	.86	1-103669-3
15	A	1.600 (40.64)	A28511-ND	1.37	1.24	1-103908-4
	B		A28512-ND	5.44	4.90	1-103670-4
	C		A28513-ND	4.55	4.10	1-103669-4
16	A	1.700 (43.18)	A28514-ND	1.45	1.31	1-103908-5
	B		A28515-ND	1.23	1.11	1-103670-5
	C		A28516-ND	5.47	4.93	1-103669-5
17	B	1.800 (45.72)	A28794-ND	1.28	1.15	1-103670-6
	C		A28517-ND	1.06	.96	1-103669-6
20	A	2.100 (53.34)	A28518-ND	1.69	1.53	1-103908-9
	B		A28519-ND	1.56	1.41	1-103670-9

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, without Holddown and without Swage Retention Tail

No. of Pos.	Plat-ing	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28523-ND	.43	.39	103735-1
	B		A28524-ND	.39	.36	103638-1
	C		A28525-ND	.38	.35	103639-1
3	A	.400 (10.16)	A28526-ND	.49	.45	103735-2
	B		A28527-ND	.44	.40	103638-2
	C		A28528-ND	.42	.38	103639-2
4	A	.500 (12.70)	A28529-ND	.56	.51	103735-3
	B		A28530-ND	.51	.46	103638-3
	C		A28531-ND	.46	.42	103639-3
5	A	.600 (15.24)	A28532-ND	.62	.56	103735-4
	B		A28533-ND	.56	.51	103638-4
	C		A28534-ND	.59	.53	103639-4
6	A	.700 (17.78)	A28535-ND	1.52	1.38	103735-5
	B		A28536-ND	.61	.55	103638-5
	C		A28537-ND	.63	.57	103639-5
7	A	.800 (20.32)	A28538-ND	.80	.72	103735-6
	B		A28539-ND	.71	.64	103638-6
	C		A28540-ND	.62	.56	103639-6
8	A	.900 (22.86)	A28541-ND	.86	.78	103735-7
	B		A28542-ND	.76	.69	103638-7
	C		A28543-ND	.61	.55	103639-7
9	A	1.000 (25.40)	A28544-ND	1.99	1.80	103735-8
	B		A28545-ND	.81	.74	103638-8
	C		A28546-ND	1.50	1.35	103639-8
10	A	1.100 (27.94)	A28547-ND	1.17	1.06	103735-9
	B		A28548-ND	.95	.86	103638-9
	C		A28549-ND	.74	.67	103639-9
11	A	1.200 (30.48)	A28550-ND	1.19	1.07	1-103735-0
	B		A28551-ND	4.24	3.82	1-103638-0
	C		A28552-ND	.82	.75	1-103639-0
12	A	1.300 (33.02)	A28553-ND	5.41	4.87	1-103735-1
	B		A28554-ND	1.02	.92	1-103638-1
	C		A28555-ND	4.11	3.71	1-103639-1
14	A	1.500 (38.10)	A28558-ND	1.42	1.28	1-103735-3
	B		A28559-ND	1.13	1.02	1-103638-3
	C		A28560-ND	4.36	3.93	1-103639-3
15	B	1.600 (40.64)	A28561-ND	5.44	4.90	1-103638-4
	C		A28562-ND	4.70	4.23	1-103639-4
16	B	1.700 (43.18)	A28563-ND	5.69	5.13	1-103638-5
	C		A28564-ND	1.03	.93	1-103639-5
17	A	1.800 (45.72)	A28520-ND	6.89	6.21	1-103735-6
20	A	2.100 (53.34)	A28568-ND	1.69	1.53	1-103735-9
	B		A28569-ND	3.07	2.77	1-103638-9
	C		A28570-ND	4.04	3.64	1-103639-9

Polarized - High Temperature

Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Swage Retention Tail

No. of Pos.	Plat-ing	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A28675-ND	.53	.48	104361-1
3		.400 (10.16)	A28676-ND	1.80	1.63	104361-2
4		.500 (12.70)	A28677-ND	.54	.49	104361-3
5		.600 (15.24)	A28678-ND	.59	.54	104361-4
6		.700 (17.78)	A28679-ND	.64	.58	104361-5
7	B	.800 (20.32)	A28680-ND	.69	.63	104361-6
8		.900 (22.86)	A28681-ND	.74	.67	104361-7
9		1.000 (25.40)	A28682-ND	.79	.72	104361-8
10		1.100 (27.94)	A28683-ND	3.90	3.54	104361-9
12		1.300 (33.02)	A28684-ND	.99	.90	1-104361-1

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, with Swage Retention Tail

No. of Pos.	Plat-ing	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A28665-ND	.43	.39	104362-1
3		.400 (10.16)	A28666-ND	1.66	1.51	104362-2
4		.500 (12.70)	A28667-ND	1.51	1.38	104362-3
5		.600 (15.24)	A28668-ND	.59	.54	104362-4
6		.700 (17.78)	A28669-ND	1.93	1.75	104362-5
7	B	.800 (20.32)	A28670-ND	3.17	2.88	104362-6
8		.900 (22.86)	A28671-ND	3.40	3.09	104362-7
9		1.000 (25.40)	A28672-ND	.77	.70	104362-8
10		1.100 (27.94)	A28673-ND	.85	.77	104362-9
12		1.300 (33.02)	A28674-ND	4.56	4.14	1-104362-1

Board Mount Headers – .050” (1.27mm) Spacing

Housing: Black thermoplastic, 94V-0 rated. **Contacts:** Copper alloy, plated gold in mating area.

Fig.	Description	No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Dual Row (Figures 1 and 2 Mate with Figure 3)							
1	Protected, Right Angle Header	24	.730 (18.54)	A24196-ND	4.00	3.58	1-104069-2
		30	.880 (22.35)	A3205-ND	5.01	4.49	104069-5
		40	1.130 (28.70)	A3206-ND	6.70	5.98	104069-6
		50	1.380 (35.05)	A3207-ND	8.35	7.48	104069-2
		60	1.630 (41.40)	A3208-ND	10.04	9.00	104069-7
		80	2.130 (54.10)	A24197-ND	13.36	11.96	104069-3
		100	2.630 (66.80)	A3209-ND	16.71	14.96	1-104069-7
2	Protected, Vertical Header	16	.530 (13.46)	A24198-ND	2.44	2.19	1-104068-0
		20	.630 (16.00)	A3210-ND	3.06	2.74	104068-1
		24	.730 (18.54)	A24832-ND	3.64	3.26	1-104068-1
		30	.880 (22.35)	A3211-ND	4.55	4.06	104068-3
		40	1.130 (28.70)	A3212-ND	6.08	5.45	104068-4
		50	1.380 (35.05)	A3213-ND	7.61	6.81	104068-5
		60	1.630 (41.40)	A3214-ND	9.13	8.18	104068-6
		68	1.830 (46.48)	A24833-ND	10.34	9.26	1-104068-8
		80	2.130 (54.10)	A24834-ND	12.16	10.89	1-104068-6
		100	2.630 (66.80)	A3215-ND	15.21	13.62	1-104068-7
3	Vertical Receptacle	20	.544 (13.82)	A3216-ND	2.97	2.69	104078-1
		24	.644 (16.36)	A28758-ND	4.39	3.93	104078-9
		30	.794 (20.17)	A3217-ND	4.45	4.04	104078-4
		40	1.044 (26.52)	A3218-ND	5.94	5.38	104078-2
		50	1.294 (32.87)	A3219-ND	7.45	6.75	104078-5
		60	1.544 (39.22)	A3220-ND	8.93	8.09	104078-6
		80	2.044 (51.92)	A28759-ND	14.59	13.07	104078-7
		100	2.544 (64.62)	A3221-ND	14.87	13.47	104078-8
Single Row							
4	Protected, Right Angle, Thru-Hole Header	4	.330 (8.38)	A0105-ND	.72	.65	104074-7
		8	.630 (16.00)	A0106-ND	1.47	1.33	1-104074-0
		10	.530 (13.46)	A0107-ND	1.83	1.65	104074-1
		12	.730 (18.54)	A0108-ND	2.19	1.98	1-104074-1
		15	.880 (22.35)	A0109-ND	2.73	2.46	104074-3
		20	1.130 (28.70)	A0110-ND	3.66	3.30	104074-4
5	Protected, Vertical, Thru-Hole Header	4	.330 (8.38)	A0100-ND	.66	.60	104071-7
		6	.430 (10.92)	A0101-ND	1.02	.92	104071-8
		12	.730 (18.54)	A0102-ND	2.01	1.81	1-104071-1
		20	1.130 (28.70)	A0103-ND	3.36	3.03	104071-4
		25	1.380 (35.05)	A0104-ND	4.20	3.78	104071-5

(Figures 1 & 2 mate with Figure 3)

Fig. 1

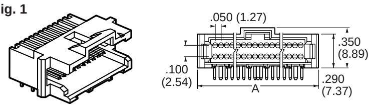


Fig. 2

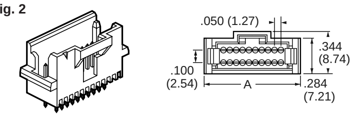


Fig. 3

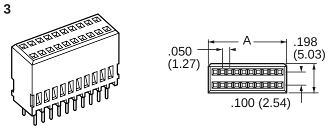


Fig. 4

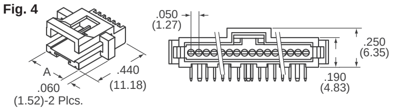
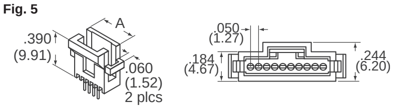


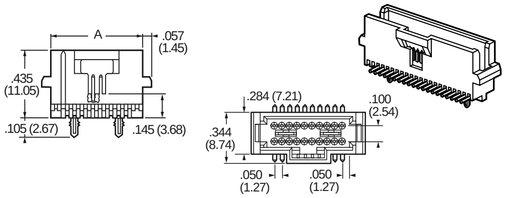
Fig. 5



SMT Headers and Receptacles – .050” (1.27mm) Spacing

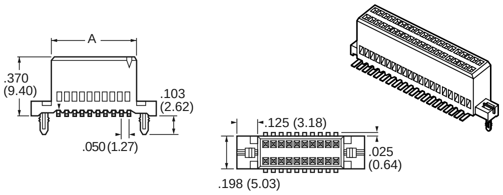
Housing: Glass filled, black thermoplastic, 94V-0 rated.
Contacts: Phosphor bronze, plated gold in mating area.

Vertical Dual Row Surface Mount Header



No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Vertical Dual Row Surface Mount Headers					
20	.630 (16.00)	A3250-ND	3.22	2.89	104549-2
30	.880 (22.35)	A3252-ND	4.84	4.34	104549-5
40	1.130 (28.70)	A3254-ND	6.44	5.77	104549-6
50	1.380 (35.05)	A3256-ND	8.06	7.22	104549-7
100	2.630 (66.80)	A3260-ND	13.14	11.91	1-104549-0

Vertical Dual Row Surface Mount Receptacle

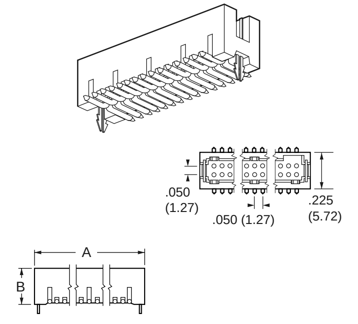


No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Vertical Dual Row Surface Mount Receptacles					
20	.544 (13.82)	A3251-ND	3.13	2.84	104550-2
30	.794 (20.17)	A3253-ND	4.69	4.25	104550-4
40	1.044 (26.52)	A3255-ND	6.25	5.67	104550-5
50	1.294 (32.87)	A3257-ND	7.82	7.08	104550-6
100	2.544 (64.62)	A3261-ND	15.61	14.44	104550-9

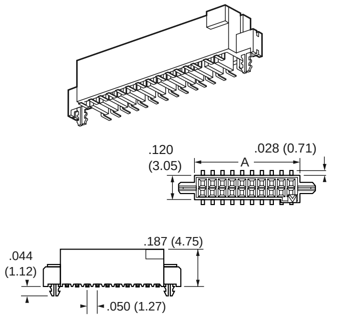
.050” (1.27mm) Grid SMT Connectors

Housing: Black glass filled thermoplastic, 94V-0 rated.
Contacts: Phosphor bronze (headers), beryllium copper (receptacles), both with duplex plated gold in mating area.

Header



Receptacle



No. of Pos.	Dimension – Inch (mm) A	Dimension – Inch (mm) B (Mated Height)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Vertical Dual Row Surface Mount Headers						
20	.622 (15.80)	.250 (6.35)	A3107-ND	4.40	3.99	104655-3
50	1.372 (34.85)	.250 (6.35)	A3108-ND	7.21	6.53	104655-6
70	1.872 (47.55)	.250 (6.35)	A3109-ND	8.19	7.42	104655-8
100	2.622 (66.60)	.250 (6.35)	A3110-ND	6.63	6.00	1-104655-1
20	.622 (15.80)	.320 (8.13)	A3111-ND	4.40	3.99	104656-2
50	1.372 (34.85)	.320 (8.13)	A3112-ND	7.21	6.53	104656-5
70	1.872 (47.55)	.320 (8.13)	A3113-ND	5.04	4.56	104656-7
100	2.622 (66.60)	.320 (8.13)	A3114-ND	6.63	6.00	1-104656-0
20	.622 (15.80)	.390 (9.91)	A3115-ND	4.40	3.99	104693-2
50	1.372 (34.85)	.390 (9.91)	A3116-ND	4.43	4.01	104693-5
70	1.872 (47.55)	.390 (9.91)	A3117-ND	8.19	7.42	104693-7
100	2.622 (66.60)	.390 (9.91)	A3118-ND	8.16	7.31	1-104693-0
Vertical Dual Row Surface Mount Receptacles						
20	.516 (13.11)	—	A3103-ND	3.38	3.03	104652-2
50	1.266 (32.16)	—	A3104-ND	7.05	6.32	104652-5
70	1.766 (44.86)	—	A3105-ND	8.55	7.68	104652-7
100	2.516 (63.91)	—	A3106-ND	10.43	9.35	1-104652-0

HIROSE ELECTRIC CO.,LTD.

High Density I/O Connectors

DXM series high-density I/O connectors with bellow contacts have an interconnect design to ensure positive locking, effortless coupling, terminal protection and EMI reduction in a miniaturized and rugged package. DXM series offer one of the most varied and complete lines of High-Density connectors in the world.

Applications: Office, factory and home automation, computers, measurement, communication and control equipment, and other commercial applications needing high density interconnections.

Features: • 1.27mm (0.050”) contact spacing conserves valuable board space and permits ultra-high density designs • Bellow contacts create smooth and precise mating • Unique shell design assures first make/last break grounding and overall noise protection • IDC termination allows quick and low cost termination to AWG #28 wires • Backshell and receptacle shell are made of diecast zinc alloy or stainless steel to reduce the penetration of external EMI noise • Overmold backshell provided for EDS protection is available in “one-touch” locking and “screw” locking • Termination methods are available in IDC, soldering, right angle dip, straight dip and SMT

Specifications: • Current capacity: 0.5A • Rated voltage: AC125V • Insulation resistance: 250MΩ or less at DC100mA • Withstanding voltage: AC 300Vr.m.s. for 1 minute

Fig. 1 – Plug Discrete IDC

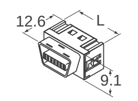


Fig. 2 – Plug Solder Type

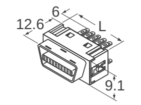


Fig. 3 – Board Lock Pin Harpoon Type

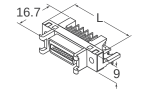


Fig. 4 – Receptacle Straight Type

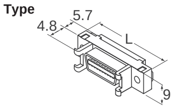


Fig. 5 – Board Screw on Type

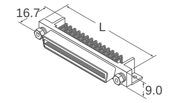


Fig. 6 – Board Lock Pin, Round Type

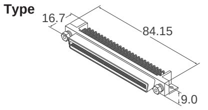


Fig. 7 – Board Lock Pin Harpoon Type

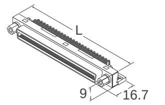


Fig. 8 – Receptacle Straight Type

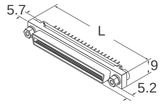


Fig. 9 – Backshell Stainless Steel

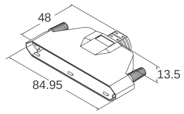


Fig. 10 – Backshell Plastic, Beige

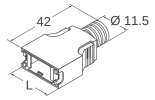


Fig. 11 – Terminator

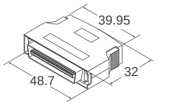


Fig.	No. Contacts	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	14	17.09	H10049-ND	8.92	7.55	5.66	DX30AM-14P
	20	20.90	H10050-ND	8.11	6.87	5.15	DX30AM-20P
	26	24.71	H10001-ND	8.76	7.42	5.57	DX30AM-26P
	36	31.06	H10051-ND	9.18	7.98	6.39	DX30AM-36P
	50	39.95	H10052-ND	10.74	9.34	7.48	DX30AM-50P
	68	51.38	H10053-ND	12.84	11.88	9.96	DX30AM-68P
	80	59.00	H10054-ND	13.67	12.87	11.26	DX30AM-80P
	100	71.70	H10048-ND	14.52	13.67	11.96	DX30AM-100P
2	20	20.90	H10063-ND	9.32	8.10	6.48	DX40M-20P
	26	24.71	H10064-ND	10.19	8.86	7.09	DX40M-26P
	36	31.06	H10065-ND	10.10	9.35	7.83	DX40M-36P
	50	39.95	H10066-ND	11.72	10.85	9.09	DX40M-50P
	100	71.70	H10062-ND	18.23	17.62	15.80	DX40M-100P
3	14	29.54	H10027-ND	4.70	3.89	2.92	DX10G1M-14S
	20	33.35	H10035-ND	4.99	4.13	3.10	DX10GM-20S
	26	37.16	H10029-ND	5.08	4.20	3.15	DX10G1M-26S
	36	43.51	H10031-ND	5.25	4.35	3.26	DX10G1M-36S
	50	52.40	H10033-ND	5.97	4.95	3.71	DX10G1M-50S
	68	63.83	H10037-ND	7.85	6.65	4.99	DX10GM-68S
	14	29.54	H10028-ND*	3.97	3.29	2.47	DX10G1M-14SE
	20	33.35	H10036-ND	4.99	4.13	3.10	DX10GM-20SE
	26	37.16	H10030-ND*	3.97	3.29	2.47	DX10G1M-26SE
	36	43.51	H10032-ND*	4.15	3.44	2.58	DX10G1M-36SE
	50	52.40	H10034-ND*	5.25	4.35	3.26	DX10G1M-50SE
	68	63.83	H10038-ND	7.85	6.65	4.99	DX10GM-68SE

Fig.	No. Contacts	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
4	14	29.54	H10042-ND	8.42	7.13	5.35	DX20M-14S
	20	33.35	H10043-ND	8.46	7.36	5.89	DX20M-20S
	26	37.16	H10044-ND	8.88	7.72	6.18	DX20M-26S
	36	43.51	H10045-ND	9.45	8.22	6.58	DX20M-36S
	50	52.40	H10046-ND	10.47	9.10	7.28	DX20M-50S
	68	63.83	H10047-ND	10.48	9.70	8.13	DX20M-68S
5	68	63.83	H10025-ND	13.84	12.81	10.73	DX10BM-68S
	80	71.45	H10026-ND	13.04	12.28	10.74	DX10BM-80S
	100	84.15	H10023-ND	14.30	13.46	11.78	DX10BM-100S
6	100	—	H10024-ND	14.52	13.67	11.96	DX10BM-100SE
7	100	84.15	H10022-ND	11.22	10.38	8.70	DX10AM-100SE2
	100	84.15	H10021-ND	11.22	10.38	8.70	DX10AM-100SE1
8	68	63.83	H10040-ND	13.22	12.23	10.25	DX20BM-68S
	80	71.45	H10041-ND	13.34	12.34	10.34	DX20BM-80S
	100	84.15	H10039-ND	14.30	13.46	11.78	DX20BM-100S
9	100	—	H10055-ND	11.22	10.38	8.70	DX30M-100-CV1
10	14	25.79	H10056-ND	5.08	4.20	3.15	DX30M-14-CV(10)
	20	29.60	H10057-ND	4.58	3.80	2.85	DX30M-20-CV(10)
	26	33.50	H10058-ND	5.22	4.32	3.24	DX30M-26-CV(10)
	36	39.80	H10059-ND	5.22	4.32	3.24	DX30M-36-CV(10)
	50	48.70	H10060-ND	5.77	4.78	3.59	DX30M-50-CV(10)
	68	60.13	H10061-ND	6.15	5.09	3.82	DX30M-68-CV(10)
11	50	—	H10067-ND	17.76	17.17	15.40	DX70M-50P(TB)CV

* With Board Locks

EDAC INC

Rack and Panel Connectors — 516 Series

Features:
• UL Recognized • Plug and receptacle in 20, 38, 56, 90 or 120 contact sizes • Contact termination options include crimp, P.C. tail, wire hole and wire wrap • Mating and unmating simplified with use of actuating screws • Contacts suitable for either plug or receptacle

Specifications:
• Insulator Material: Diallyl Phthalate, Color: Green, or Polycarbonate Color: Grey • Contact Material: Phosphor Bronze Alloy CA-510 • Contact Plating: Gold over nickel for entire contact • Cover Material: Diecast zinc, finished with grey enamel paint • Current Rating: 8.5 Amperes • Contact Resistance: 10 Milliohms maximum • Dielectric Withstanding Voltage: 2000 V AC rms at sea level • Insulation Resistance: 5000 Megohms minimum • Operating Temperature: -65°C to +125°C • Insertion and Withdrawal Force: 2 to 16 oz. (0.56 to 4.45 N) per contact position

Fig. 1 – 20 Pin Plug and Receptacle, Grey

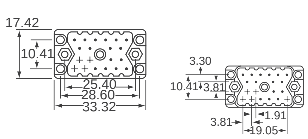


Fig. 2 – 38 Pin Plug and Receptacle, Grey

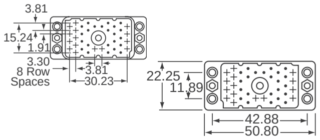


Fig. 3 – 56 Pin Plug and Receptacle, Grey

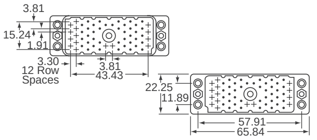


Fig. 4 – 90 Pin Plug and Receptacle, Grey

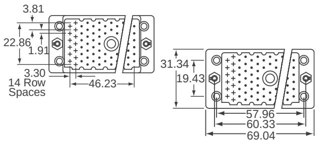


Fig. 5 – 120 Pin Plug and Receptacle, Green

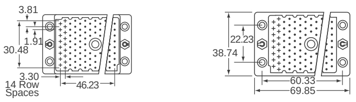
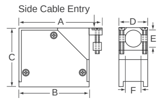


Fig. 6 – Metal Connector Cover



No. of Cont.	Dimensions A	B	C	D	E	F
20	39.09	33.66	23.01	17.42	11.33	12.45
38	56.03	50.95	39.78	22.23	18.29	14.61
56	71.17	66.09	39.78	22.23	18.29	14.61
90	79.20	69.04	45.09	31.34	22.35	22.86
120	80.65	69.85	51.31	38.89	22.61	27.43

Fig. 7 – Contacts

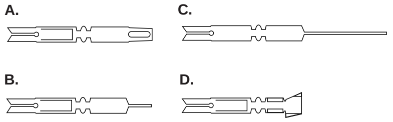


Fig.	No. Con-tacts	Description	Digi-Key Part No.	Price Each 1	25	EDAC Part No.
1	20	Plug with Screw	151-1024-ND	8.00	6.00	516-020-000-301
	20	Plug with Nut	151-1025-ND	5.81	4.36	516-020-000-302
	20	Receptcale with Screw	151-1026-ND	7.62	5.71	516-020-000-401
	20	Receptcale with Nut	151-1027-ND	5.71	4.29	516-020-000-402
2	38	Plug with Screw	151-1028-ND	8.10	6.08	516-038-000-301
	38	Plug with Nut	151-1029-ND	5.71	4.29	516-038-000-302
	38	Receptcale with Screw	151-1030-ND	8.00	6.00	516-038-000-401
	38	Receptcale with Nut	151-1031-ND	5.52	4.14	516-038-000-402
3	56	Plug with Screw	151-1032-ND	8.10	6.08	516-056-000-301
	56	Plug with Nut	151-1033-ND	5.90	4.43	516-056-000-302
	56	Receptcale with Screw	151-1034-ND	8.10	6.07	516-056-000-401
	56	Receptcale with Nut	151-1035-ND	5.71	4.29	516-056-000-402
4	90	Plug with Screw	151-1036-ND	15.71	11.79	516-090-000-301
	90	Plug with Nut	151-1037-ND	7.14	5.36	516-090-000-302
	90	Receptcale with Screw	151-1038-ND	15.43	11.57	516-090-000-401
	90	Receptcale with Nut	151-1039-ND	6.95	5.21	516-090-000-402

Fig.	No. Con-tacts	Description	Digi-Key Part No.	Price Each 1	25	EDAC Part No.
5	120	Plug with Screw	151-1040-ND	18.38	13.79	516-120-000-101
	120	Plug with Nut	151-1041-ND	9.52	7.14	516-120-000-102
	120	Receptcale with Screw	151-1042-ND	18.76	14.07	516-120-000-201
	120	Receptcale with Nut	151-1043-ND	9.90	7.43	516-120-000-202
6	—	Cover for 20 Position	151-1044-ND	13.05	9.79	516-230-520
	—	Cover for 38 Position	151-1045-ND	14.00	10.50	516-230-538
	—	Cover for 56 Position	151-1046-ND	15.33	11.50	516-230-556
	—	Cover for 90 Position	151-1047-ND	15.71	11.79	516-230-590
	—	Cover for 120 Position	151-1048-ND	17.33	11.93	516-230-512
7A	—	Solder Eyelet	151-1049-ND	—	4.00	516-290-500
7B	—	Soldertail	151-1050-ND	—	3.21	516-290-520
7C	—	Wirewrap	151-1051-ND	—	4.11	516-290-541
7D	—	Crimp Type	151-1052-ND	—	4.00	516-290-590
—	—	Crimp Tool	151-1058-ND	159.00	—	516-280-201
—	—	Extraction Tool	151-1059-ND	49.00	—	516-280-300

.050” (1.27mm) Connectors

Fig. 1

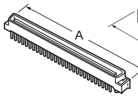


Fig. 2

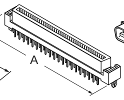


Fig. 3

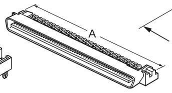
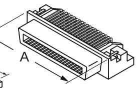
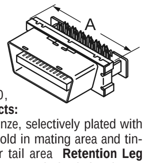


Fig. 4



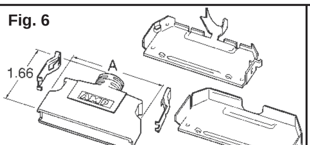
Housing & Tine Plate: Glass-filled nylon, rated 94V-0, black for standard, LCP, rated 94V-0, black for High Temp. **Contacts:** Phosphor bronze, selectively plated with min. of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

Fig. 5



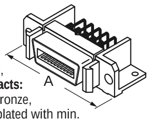
Housing: Glass-filled polyester, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with min. of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

Fig. 6



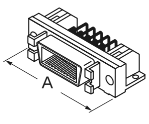
Enclosure: Polyester, rated 94V-0 **Shields:** Brass, nickel plated **Locking Spring:** Stainless Steel

Fig. 7



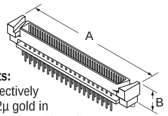
Housing: Glass-filled polyester, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with min. of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

Fig. 8



Housing: LCP, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with min. of 30µ gold in mating area and tin-lead in solder tail area **Shield:** Carbon steel, tin-cobalt plated

Fig. 9



Housing: Glass filled nylon, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with min. of 12µ gold in mating area and tin-lead in solder tail area **Shield:** Carbon steel, tin-cobalt plated

Fig. 10

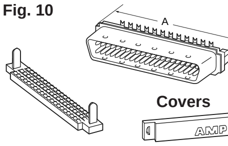
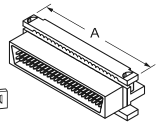
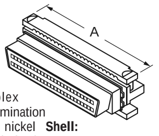


Fig. 11



Housing and Covers: Thermoplastic, 94V-0 rated, black or gray **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ tin-lead on termination end; all underplated 50µ nickel **Shell:** Steel, plated 20µ bright tin-lead over 50µ copper **Recommended Wire Size:** 28 AWG or 30 AWG, solid or stranded, with a .029-.036 (0.74-0.89) insulation diameter

Fig. 12



Housing and Covers: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30µ tin-lead on termination end; all underplated 50µ nickel **Shell:** Steel, plated 200µ bright tin-lead over 50µ copper

Fig. 13

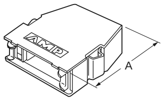


Fig. 14

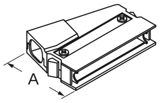
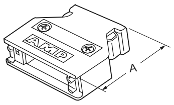
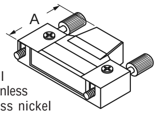


Fig. 15



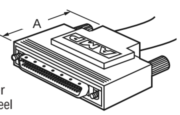
Backshell: Zinc, plated nickel over copper **Spring Latch:** Stainless steel **2-56 Screws:** Stainless steel **Strain Relief Staple:** Steel, plated tin-lead over nickel

Fig. 16



Backshell: Zinc, plated nickel over copper **Jackscrews:** Stainless steel or steel, black electroless nickel plated **Jackscrew Caps:** Polyolefin or PVC, black **2-56 Screws:** Stainless steel Strain Relief Staple: Steel, plated tin-lead over nickel

Fig. 17



Backshells: Zinc **Boot:** PVC, Black **Jackscrews:** Stainless steel and PVC, black **Staple:** Carbon steel, plated 50µ tin-lead over 50µ nickel **2-56 Screws:** Stainless steel

Fig. 18

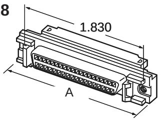


Fig. 19

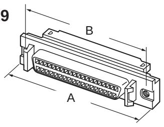
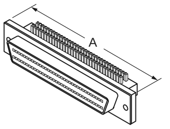


Fig. 20



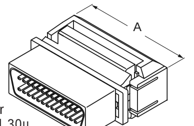
Covers: Thermoplastic, 94V-0 rated, black **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ bright tin-lead in termination area, all underplated 50µ nickel

Fig.	No. of Pos.	Description	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
CHAMP® .050” (1.27mm) Series I (VESA Media Bus Standard)							
1	20	Vert. Plug, w/ Locks, Standard	.949 (24.05)	A26151-ND	4.49	3.63	5-175473-1
1	40	Vert. Plug, w/ Locks, High Temp.	1.447 (36.75)	A26152-ND	1.95	1.58	557102-5
1	50	Vert. Plug, w/ Locks, Standard	1.697 (43.10)	A26153-ND	6.82	5.51	5-175473-6
1	68	Vertical Plug	2.147 (54.53)	A15022-ND	3.54	3.17	1-557102-7
1	80	Vert. Plug, w/ Locks, Standard	2.447 (62.15)	A26154-ND	8.20	6.64	5-175473-9
1	80	Vert. Plug, w/ Locks, High Temp.	2.947 (74.85)	A15020-ND	3.54	3.18	2-557102-1
2	80	Vert. Recept., w/ Locks, High Temp.	2.447 (62.15)	A26157-ND	2.23	1.81	2-557103-1
1	100	Vert. Recept., w/ Locks, High Temp.	2.947 (74.85)	A26155-ND	10.25	8.29	6-175473-0
1	100	Vert. Plug, w/ Locks, High Temp.	2.947 (74.85)	A26156-ND	3.34	2.70	2-557102-5
2	100	Vert. Recept. w/ Locks, Standard	2.947 (74.85)	A26158-ND	10.25	8.29	6-175475-0
2	100	Vert. Recept. w/ Locks, High Temp.	2.947 (74.85)	A26159-ND	4.65	3.77	2-557103-5
3	40	Right Angle Plug, High Temp.	1.391 (35.33)	A26160-ND	2.68	2.17	557100-5
4	40	Right Angle Recept., High Temp.	1.391 (35.33)	A26161-ND	2.00	1.62	557101-5
3	50	Right Angle Plug, High Temp.	1.641 (41.68)	A26149-ND	2.98	2.42	557100-9
4	50	Right Angle Plug, Standard	1.641 (41.68)	A24225-ND	7.50	6.07	5-175474-6
4	50	Right Angle Recept., High Temp.	1.641 (41.68)	A26150-ND	2.19	1.77	557101-9
3	68	Right Angle Plug, Standard	2.091 (53.11)	A26162-ND	7.64	6.18	5-175472-8
3	68	Right Angle Plug, High Temp.	2.091 (53.11)	A15023-ND	3.25	2.90	1-557100-7
3	80	Right Angle Plug, High Temp.	2.391 (60.73)	A15021-ND	3.71	3.32	2-557100-1
4	80	Right Angle Recept., High Temp.	2.391 (60.73)	A24228-ND	2.37	1.92	2-557101-1
3	100	Right Angle Plug, High Temp.	2.891 (73.43)	A24229-ND	3.36	2.72	2-557100-5
4	100	Right Angle Recept., High Temp.	2.891 (73.43)	A24230-ND	3.15	2.55	2-557101-5
4	140	Right Angle Recept., High Temp.	3.891 (98.83)	A24231-ND	4.56	3.69	4-557101-9
CHAMP® .050” (1.27mm) Series II (Wire-To-Board)							
5	26	Plug Cable Connector	1.024 (26.00)	A26163-ND	5.19	4.20	2-175677-4
5	50	Plug Cable Connector	1.626 (41.30)	A26164-ND	8.01	6.48	2-175677-7
6	26	Enclosure Kits	1.319 (33.50)	A26138-ND	4.42	3.58	176793-4
7	14	Right Angle Recept., Board Lock	1.163 (29.54)	A26139-ND	4.86	3.94	2-178238-1
7	20	Right Angle Recept., Board Lock	1.313 (33.35)	A26140-ND	4.16	3.37	2-178238-2
7	26	Right Angle Recept., Board Lock	1.463 (37.16)	A26141-ND	5.05	4.09	2-178238-4
7	50	Right Angle Recept., Board Lock	2.063 (52.40)	A26142-ND	8.32	6.73	2-178238-7
7	68	Right Angle Recept., Board Lock	2.513 (63.83)	A26143-ND	9.73	7.87	2-178238-8
8	14	Right Angle Recept., High Temp.	1.163 (29.54)	A26144-ND	5.03	4.07	557153-3
CHAMP® .050” (1.27mm) FH Connectors							
9	60	Vert. Recept., 18mm, B=.62 (15.70)	1.953 (49.60)	A26145-ND	9.96	8.06	176378-2
9	80	Vert. Recept., 12mm, B=.38 (9.70)	2.453 (62.30)	A26146-ND	10.29	8.33	176372-3
9	80	Vert. Recept., 13mm, B=.42 (10.70)	2.453 (62.30)	A26147-ND	10.50	8.50	176373-3
9	100	Vert. Recept., 16mm, B=.54 (13.70)	2.953 (75.00)	A26148-ND	13.89	11.23	176376-4
AMPLIMITE® .050 (1.27mm) Series (SCSI-2, SCSI-3, IPI-2, HIPPI)							
Cable Plug Connectors							
10	26	w/ Wire Lacing Term. Covers, Black	.979 (24.87)	A23677-ND	7.03	5.62	750913-2
10	26	w/ Wire Lacing Term. Covers. Gray	.979 (24.87)	A26136-ND	7.03	5.62	1-750913-2
10	50	w/ Wire Lacing Term. Covers, Black	1.579 (40.11)	A23678-ND	6.95	5.56	750913-5
10	50	w/ Wire Lacing Term. Covers, Gray	1.579 (40.11)	A3302-ND	7.25	6.49	1-750913-5
10	68	w/ Wire Lacing Term. Covers, Black	2.029 (51.54)	A23679-ND	5.80	4.64	750913-7
10	68	w/ Wire Lacing Term. Covers, Gray	2.029 (51.54)	A3305-ND	7.54	6.76	1-750913-7
10	100	w/ Wire Lacing Term. Covers, Gray	2.829 (71.86)	A23676-ND	17.98	14.38	1-750913-9
10	20	w/ Assembled Terminal Covers	.829 (21.06)	A23687-ND	4.70	3.76	749111-1
10	26	w/ Assembled Terminal Covers	.979 (24.87)	A23686-ND	6.40	5.12	1-749111-0
10	26	w/o Assembled Terminal Covers	.979 (24.87)	A23690-ND	4.70	3.76	749621-2
10	28	w/o Assembled Terminal Covers	1.029 (26.14)	A23691-ND	7.25	5.80	749621-3
10	40	w/o Assembled Terminal Covers	1.329 (33.76)	A23692-ND	4.70	3.76	749621-4
10	50	w/ Assembled Terminal Covers	1.579 (40.11)	A15029-ND	4.37	3.54	749111-4
10	50	w/o Assembled Terminal Covers	1.579 (40.11)	A3301-ND	5.62	5.04	749621-5
10	68	w/ Assembled Terminal Covers	2.029 (51.54)	A3303-ND	6.50	5.20	749111-6
10	68	w/o Assembled Terminal Covers	2.029 (51.54)	A3304-ND	6.11	5.46	749621-7
10	80	w/ Assembled Terminal Covers	2.329 (59.16)	A23688-ND	14.58	11.66	749111-7
10	80	w/o Assembled Terminal Covers	2.329 (59.16)	A23693-ND	14.05	11.24	749621-8
10	100	w/ Assembled Terminal Covers	2.829 (71.86)	A23689-ND	17.98	14.38	749111-8
10	100	w/o Assembled Terminal Covers	2.829 (71.86)	A23694-ND	12.50	10.00	749621-9
10	26	w/ Wire Lacing Term. Covers, Gray	.965(24.51)	A23680-ND	.45	.36	1-750877-2
10	50	w/ Wire Lacing Term. Covers, Black	1.565 (39.75)	A23684-ND	.40	.32	750877-5
10	50	w/ Wire Lacing Term. Covers, Gray	1.565 (39.75)	A23681-ND	.40	.32	1-750877-5
10	68	w/ Wire Lacing Term. Covers, Black	2.015 (51.18)	A23685-ND	.48	.38	750877-7
10	68	w/ Wire Lacing Term. Covers, Gray	2.015 (51.18)	A23682-ND	.48	.38	1-750877-7
10	100	w/ Wire Lacing Term. Covers, Gray	2.815 (71.50)	A23683-ND	.53	.42	1-750877-9
11	50	w/ Assembled Terminal Covers	1.579 (40.11)	A23695-ND	6.25	5.00	749925-3
11	68	w/ Assembled Terminal Covers	2.029 (51.54)	A23696-ND	8.30	6.64	749925-5
Shielded Receptacles							
12	40	w/o Assembled Terminal Covers	1.329 (33.76)	A23699-ND	9.58	7.66	749699-4
12	50	w/ Assembled Terminal Covers	1.579 (40.11)	A23697-ND	7.48	5.98	749210-5
12	50	w/o Assembled Terminal Covers	1.579 (40.11)	A23700-ND	7.48	5.98	749699-5
12	68	w/ Assembled Terminal Covers	2.029 (51.54)	A23698-ND	9.28	7.42	749210-7
12	68	w/o Assembled Terminal Covers	2.029 (51.54)	A23701-ND	6.25	5.00	749699-7
12	68	w/ Wire Lacing Assort. Term. Covers	2.029 (51.54)	A23703-ND	7.20	5.76	786860-7
12	100	w/o Assembled Terminal Covers	2.829 (71.86)	A23702-ND	19.40	15.52	749699-8
Straight and Angled Exit RFI/EMI Shielded Backshell Kits							
13	20	Straight with Spring Latches	1.290 (32.77)	A23546-ND	8.23	6.58	749190-1
14	20	Angled with Spring Latches	1.290 (32.77)	A23551-ND	7.98	6.38	749199-1
15	26	Straight with Spring Latches	1.290 (32.77)	A23589-ND	5.08	4.06	749608-1
14	26	Angled with Spring Latches	1.290 (32.77)	A23590-ND	9.30	7.44	749609-1
13	40	Straight with Spring Latches	1.290 (32.77)	A23547-ND	9.48	7.58	749192-1
13	50	Straight w/ Spring Latches, ø.355 (9.02)	1.395 (35.43)	A23548-ND	6.85	5.48	749193-1
13	50	Straight w/ Spring Latches, ø.400 (10.16)	1.395 (35.43)	A3306-ND	6.21	5.56	749193-2
14	50	Angled with Spring Latches	1.395 (35.43)	A23552-ND	10.15	8.12	749202-2
15	50	Straight with Spring Latches	1.800 (45.72)	A3307-ND	8.09	7.28	749889-3
14	68	Angled with Spring Latches	1.405 (35.69)	A23585-ND	11.83	9.46	749204-1
13	68	Straight with Spring Latches	1.405 (35.69)	A3308-ND	10.99	9.84	749195-2
14	68	Angled with Spring Latches	1.405 (35.69)	A23586-ND	12.00	9.60	749204-2
14	80	Angled with Spring Latches	1.600 (40.64)	A23587-ND	13.05	10.44	749205-1
13	80	Straight with Spring Latches	1.600 (40.64)	A23549-ND	11.30	9.04	749196-2
13	100	Straight with Spring Latches	1.725 (43.82)	A23550-ND	13.40	10.72	749197-1
14	100	Angled with Spring Latches	1.725 (43.82)	A23588-ND	14.73	11.78	749206-1
Shielded Backshell Kits							
16	50	Straight w/ Male #2-56 Jackscrews	1.270 (32.26)	A23543-ND	11.73	9.38	749080-1
17	68	Straight w/ Male #2-56 Jackscrews	1.887 (47.93)	A3309-ND	16.19	14.55	750752-1
17	68	Straight w/ Female #4-40 Jackscrews	1.887 (47.93)	A23591-ND	13.38	10.70	750752-2
16	100	Straight w/ Male #2-56 Jackscrews	1.695 (43.05)	A23544-ND	14.93	11.94	749081-1
16	100	Straight w/ Male #2-56 Jackscrews	2.082 (52.88)	A23545-ND	14.93	11.94	749654-1
Panel Mount Receptacle Assemblies							
18	26	With Rails, 2-56 Threaded Holes	1.465 (37.21)	A23619-ND	7.98	6.38	749611-1
18	50	With Rails, 2-56 Threaded Holes	2.065 (52.45)	A3310-ND	11.65	9.32	749611-5
18	50	With Rails, 4-40 Threaded Holes	2.065 (52.45)	A3311-ND	10.21	9.14	750450-1
19	50	w/o Rails, 2-56 Threaded Holes Unassembled Wire Lacing B: 1.830” (46.48mm)	2.065 (52.45)	A23620-ND	7.85	6.28	786862-5
19	68	w/o Rails, 2-56 Threaded Holes Assembled Standard B: 2.280” (57.91mm)	2.515 (63.88)	A23624-ND	14.43	11.54	749656-7
19	50	w/o Rails, 2-56 Threaded Holes B: 1.830” (46.48mm)	2.065 (52.45)	A3312-ND	10.37	9.29	749656-5
19	50	w/o Rails, 4-40 Threaded Holes B: 1.830” (46.48mm)	2.065 (52.45)	A3313-ND	7.68	6.14	750640-1
20	68	Without Rails and Latch Blocks	2.515 (63.88)	A26137-ND	13.20	10.56	749877-7
20	100	Without Rails and Latch Blocks	3.315 (84.20)	A23724-ND	20.48	16.38	749877-9
20	50	Without Rails and Latch Blocks, Plug	2.065 (52.45)	A23725-ND	24.50	19.60	749879-5

(Continued)

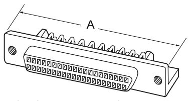
.050” (1.27mm) Connectors *(Cont.)*

Fig. 21



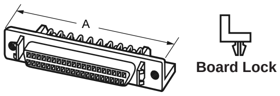
Covers: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ bright tin-lead in termination area, all underplated 50µ nickel **Recommended Wire Size:** .025 (.64) centerline, 30 AWG solid or stranded, PVC, flat ribbon cable

Fig. 22



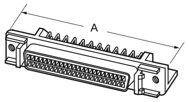
Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 120µ tin-lead on solder end; all underplated 50µ nickel

Fig. 23



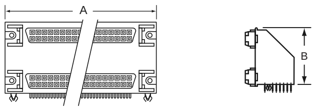
Housing: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 8µ gold on contact area; 2540µ tin-lead on solder area; all underplated 50µ nickel

Fig. 24



Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 120µ tin-lead on solder end; all underplated 50µ nickel

Fig. 25



Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 120µ tin-lead on solder end; all underplated 50µ nickel

Fig. 26

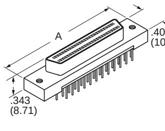


Fig. 27

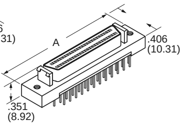
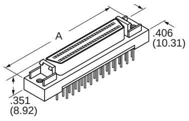
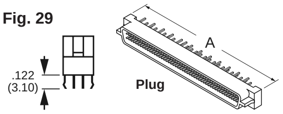


Fig. 28



Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end, 120µ (for .125) 150 (for .173) tin-lead on solder end; all underplated 50µ nickel

Fig. 29



High density interface PCB mount connectors meet the requirements of Versa Module Europe (VME) bussing per SBus standards. Available in configurations for parallel board stacking as required by SBus specifications.

Housing: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, plated; 30µ gold on mating end, 150µ tin-lead on solder tail, all over 50µ nickel underplating

Fig.	No. of Pos.	Description	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
		Unshielded Plug Assemblies and Backshell Kit					
21	68	Unshielded for .025 (0.64) Centerline Ribbon Cable	2.023 (51.30)	A23711-ND	2.30	1.84	786090-7
		Right Angle Receptacle Headers					
22	40	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.815 (46.10)	A23726-ND	5.73	4.58	787170-4
22	50	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A3320-ND	5.55	4.44	787169-5
22	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A23727-ND	6.13	4.90	787170-5
22	50	Without Rails, with Boardlocks, .120 (3.05) Solder Tails	2.065 (52.45)	A23728-ND	8.38	6.70	787362-5
22	68	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A23729-ND	5.33	4.26	787169-7
22	68	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3324-ND	6.76	6.06	787170-7
22	100	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	3.315 (84.20)	A3325-ND	14.85	13.30	787169-9
22	100	Without Rails, with Boardlocks, .120 (3.05) Solder Tails	3.315 (84.20)	A23730-ND	12.53	10.02	787362-9
23	26	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.465 (37.21)	A3314-ND	6.57	5.88	787082-2
23	28	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.515 (38.48)	A23731-ND	6.98	5.58	787082-3
23	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A3316-ND	4.16	3.76	787082-5
23	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A3317-ND	7.15	6.41	787394-5
23	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails, 4-40 Threaded Holes	2.065 (52.45)	A23732-ND	4.90	3.92	787395-5
23	68	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3321-ND	6.70	6.00	787082-7
23	68	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3322-ND	7.10	5.68	787394-7
23	68	With Self Retaining Posts, 8µ Gold	2.100 (53.20)	A23705-ND	6.03	4.82	3-174682-7
23	68	With Self Retaining Posts, 30µ Gold	2.100 (53.20)	A23706-ND	8.40	6.72	8-174682-7
24	26	With Rails, with Boardlocks	1.465 (37.21)	A23733-ND	5.80	4.64	787171-2
24	40	With Rails, with Boardlocks	1.815 (46.10)	A23734-ND	5.95	4.76	787171-4
24	50	With Rails, with Boardlocks	2.065 (52.45)	A3318-ND	7.54	6.76	787171-5
24	26	With Rails, without Boardlocks	1.465 (37.21)	A3315-ND	4.78	3.82	787190-2
24	50	With Rails, with Boardlocks	2.065 (52.45)	A3319-ND	7.28	6.55	787190-5
24	50	With Rails, with Boardlocks, 4-40 Threaded Holes	2.065 (52.45)	A23735-ND	6.03	4.82	787266-5
24	68	With Rails, without Boardlocks	2.515 (63.88)	A23736-ND	7.48	5.98	787190-7
24	68	With Rails, with Boardlocks	2.515 (63.88)	A3323-ND	8.35	7.48	787171-7
25	50/50	Right Angle Stacked with Rails, B: .906 (23.01)	2.065 (52.45)	A23737-ND	20.68	16.54	787656-1
25	68/68	Right Angle Stacked with Rails, B: 1.156 (29.36)	2.515 (63.88)	A23738-ND	33.88	27.10	787678-1
25	68/68	Right Angle Stacked with Rails, Flat Top, B: 1.156 (29.36)	2.515 (63.88)	A23739-ND	36.03	28.82	787679-1
		Vertical Receptacle Headers Without Rails and Latch Blocks					
26	50	.125 (3.18) Solder Tail	2.065 (52.45)	A23740-ND	6.58	5.26	749070-5
26	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A23741-ND	9.03	7.22	786555-5
26	68	.125 (3.18) Solder Tail	2.515 (63.88)	A23742-ND	6.73	5.38	749070-7
26	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A23743-ND	9.55	7.64	786555-7
26	68	.280 (7.11) ACTION PIN Tail	2.515 (63.88)	A23744-ND	18.03	14.42	786557-7
26	100	.125 (3.18) Solder Tail	3.315 (84.20)	A23745-ND	13.50	10.80	749070-9
26	100	.173 (4.39) ACTION PIN Tail	3.315 (84.20)	A23746-ND	26.05	20.84	786555-9
		Vertical Receptacle Headers Without Rails and With Latch Blocks					
27	28	.125 (3.18) Solder Tail	1.515 (38.48)	A23747-ND	5.55	4.44	749721-3
27	50	.125 (3.18) Solder Tail	2.065 (52.45)	A23748-ND	7.38	5.90	749721-5
27	68	.125 (3.18) Solder Tail	2.515 (63.88)	A23749-ND	5.68	4.54	749721-7
27	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A23750-ND	8.58	6.86	786155-7
		Vertical Receptacle Headers With Rails and Latch Blocks					
28	20	.173 (4.39) ACTION PIN Tail	1.315 (33.40)	A23751-ND	5.95	4.76	786554-1
28	26	.125 (3.18) Solder Tail	1.465 (37.21)	A23752-ND	5.38	4.30	749069-2
28	26	.173 (4.39) ACTION PIN Tail	1.465 (37.21)	A23753-ND	6.13	4.90	786554-2
28	50	.125 (3.18) Solder Tail	2.065 (52.45)	A23754-ND	6.43	5.14	749069-5
28	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A23755-ND	7.90	6.32	786554-5
28	68	.125 (3.18) Solder Tail	2.515 (63.88)	A23756-ND	7.38	5.90	749069-7
28	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A23757-ND	11.50	9.20	786554-7
28	68	.280 (7.11) ACTION PIN Tail	2.515 (63.88)	A23758-ND	18.05	14.44	786556-7
28	100	.125 (3.18) Solder Tail	3.315 (84.20)	A23759-ND	13.50	10.80	749069-9
		SBUS Connectors					
29	96	Receptacle Header w/o Polarization	2.795 (70.99)	A23704-ND	14.33	11.46	750350-2
29	96	Plug Header without Polarization	2.80 (71.00)	A23618-ND	9.20	7.36	174683-8

Shielded .050” (1.27mm) Slimline Connectors Right-Angle Headers

Fig. 1

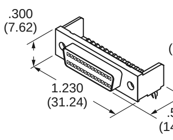
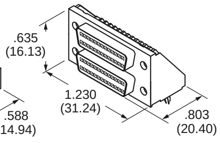


Fig. 2



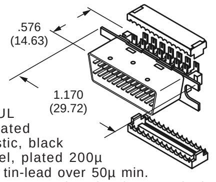
Housing: UL 94V-0 rated thermoplastic, black **Contact Footprints:** .100 x .050 (2.54 x 1.27) staggered centerlines **Bracket:** Zinc, plated 200µ min. tin or tin-lead over 200µ min. copper **Metal-Shell:** Carbon steel, plated 200µ min. tin over 50µ min. copper **Boardlocks:** Copper alloy, tin-lead plated **Contacts:** Phosphor bronze, duplex plated 30µ min. gold on mating end, tin-lead plated 120µ min. on solder end, all over 50µ min. nickel

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	26	Receptacle	A23760-ND	14.26	11.54	750823-1
2	26/26	Stacked Receptacle w/o Rear Contact Shield, Unkeyed	A23761-ND*	31.09	25.14	786200-1
	26/26	Stacked Receptacle with Rear Contact Shield, Keyed	A23762-ND†	18.66	15.09	750821-1
	26/26	Stacked Receptacle with Rear Contact Shield, Unkeyed	A23763-ND*	18.80	15.20	750820-1

* Both headers unkeyed with 4-40 threaded holes.
† Lower header unkeyed with 4-40 threaded holes, upper header keyed in keying position 1.

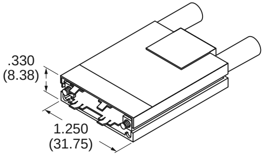
Shielded .050” (1.27mm) Slimline Cable Connectors, Plug

Fig. 1



Covers: UL 94V-0 rated thermoplastic, black **Shell:** Steel, plated 200µ min. bright tin-lead over 50µ min. copper **Contacts:** Phosphor bronze, duplex plated 30µ min. gold on mating end, 50µ min. bright tin-lead on termination end, all underplated 50µ nickel **Bracket:** Zinc, plated 200µ min. nickel over 200µ min. copper **Recommended Wire Size:** 28 AWG, PVC or polyolefin insulation

Fig. 2 Connector shown partially assembled. Given dimensions reflect full assembly.

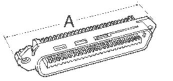


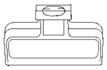
Backshells: Copper-nickel alloy **Jackscrews:** Steel, plated 100µ min. tin over 50µ min. copper, handles covered with ABS, gray **Inserts:** Zinc, plated 200µ min. tin over 200µ min. copper **Outside Covers:** Gray and black

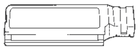
Fig. No.	Description	Cable Dia. Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Plug Connector	w/max. O.D. .032 (0.813)	A23764-ND	10.06	8.14	750833-1
2	Backshell Kit, Unkeyed	.250-.280 (6.35-7.11)	A23765-ND	11.28	9.12	750850-1
	Backshell Kit, Unkeyed	.280-.310 (7.11-7.87)	A23766-ND	9.92	8.02	750850-3

CHAMP® Parallel Interface Connectors

For Discrete Wire Termination




180° Strain Relief

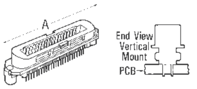

90° Strain Relief

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
22 AWG, Solid or Stranded						
14	1.750 (44.45)	Plug, Screw Lock	A24234-ND	3.08	2.37	552300-1
24	2.175 (55.25)	Plug, Screw Lock	A24235-ND	3.71	2.85	552301-1
		Plug, Bail Lock	A24236-ND	3.13	2.40	552317-1
36	2.685 (68.20)	Plug, Bail Lock	A24237-ND	2.90	2.23	552318-1
50	3.280 (83.31)	Plug, Screw Lock	A24238-ND	2.48	1.90	552173-1
		Plug, Bail Lock	A24239-ND	4.93	3.78	552319-1
		Receptacle, Screw or Bail Lock	A24240-ND	2.75	2.11	552064-1
64	3.875 (98.43)	Plug, Screw Lock	A24241-ND	3.98	3.06	552303-1
		Receptacle, Screw or Bail Lock	A24242-ND	3.60	2.76	552307-1
Large Insulation Wire Connectors, 22 AWG Solid or Stranded						
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A24257-ND	3.62	2.78	5-555037-1
50	3.280 (83.31)	Plug, Screw Lock	A24258-ND	3.80	2.92	556039-1
		Receptacle, Screw or Bail Lock	A24259-ND	3.80	2.92	555227-1
64	3.671 (93.24)	Plug, Bail Lock	A24260-ND	5.51	4.23	555753-1
	3.875 (98.43)	Receptacle, Panel Mt., Screw or Bail Lock	A24261-ND	6.41	4.92	555151-1
24-26 AWG, Solid or 24 AWG Stranded						
14	1.750 (44.45)	Plug, Screw Lock	A24243-ND	3.08	2.37	552282-1
		Plug, Bail Lock	A24244-ND	2.81	2.16	552270-1
		Receptacle, Screw or Bail Lock	A24245-ND	2.77	2.13	552312-1
		Receptacle, Panel Mt., Screw or Bail Lock	A24246-ND	3.13	2.40	2-552271-1
24	2.175 (55.25)	Plug, Screw Lock	A24247-ND	3.78	2.90	552283-1
		Plug, Bail Lock	A1502-ND	3.36	2.72	552272-1
		Receptacle, Screw or Bail Lock	A24248-ND	4.19	3.21	552313-1
		Receptacle, Panel Mt., Screw or Bail Lock	A1508-ND	3.06	2.47	2-552273-1
36	2.685 (68.20)	Plug, Screw Lock	A24249-ND	2.86	2.20	552284-1
		Plug, Bail Lock	A1503-ND	4.54	4.07	552274-1
		Receptacle, Screw or Bail Lock	A24250-ND	2.90	2.23	552314-1
		Receptacle, Panel Mt., Screw or Bail Lock	A1509-ND	3.03	2.46	2-552275-1
50	3.280 (83.31)	Plug, Screw Lock, Thick Flange	A1540-ND	2.79	2.51	229974-1
		Receptacle, Screw Lock, Thick Flange	A1541-ND	2.79	2.51	229975-1
		Plug, Bail Lock	A1542-ND	2.78	2.50	552032-1
		Receptacle, Panel Mt., Screw or Bail Lock	A1543-ND	3.28	2.94	2-552001-1
64	3.875 (98.43)	Plug, Screw Lock	A24252-ND	3.38	2.59	552285-1
		Plug, Bail Lock	A24253-ND	3.67	2.82	552276-1
		Receptacle, Screw or Bail Lock	A24254-ND	4.14	3.18	552315-1
		Receptacle, Panel Mt., Screw or Bail Lock	A24255-ND	3.69	2.83	2-552277-1
26-28 AWG, Stranded						
24	3.875 (98.43)	Plug, Screw Lock	A1530-ND	3.08	2.37	552443-1
		Plug, Bail Lock	A1531-ND	6.26	4.80	552469-1
		Receptacle, Panel Mt., Screw or Bail Lock	A1533-ND	10.75	7.42	2-552474-1
36	2.685 (68.20)	Plug, Screw Lock	A1534-ND	5.65	4.33	552444-1
		Plug, Bail Lock	A1535-ND	2.90	2.23	552470-1
		Receptacle, Panel Mt., Screw or Bail Lock	A1537-ND	6.19	4.75	2-552475-1
50	3.280 (83.31)	Plug, Screw Lock, Thick Flange	A1544-ND	2.72	2.18	552390-1
		Receptacle, Screw Lock, Thick Flange	A1545-ND	2.70	2.16	552391-1
		Plug, Bail Lock	A1546-ND	3.28	2.62	552471-1
		Receptacle, Panel Mt., Screw or Bail Lock	A1547-ND	3.80	3.04	2-552476-1
64	3.875 (98.43)	Plug, Screw Lock	A24256-ND	6.26	4.80	552488-1
Accessories						
Integral Locking Latch, Preassembled						
50	3.280 (83.31)	Receptacle, Black	A24262-ND	2.09	1.61	553921-1
50	3.280 (83.31)	Receptacle, Gray	A24251-ND	2.68	2.06	553921-2
64	3.875 (98.43)	Receptacle	A24263-ND	4.01	3.08	554381-2
Dust Covers						
24	—	Position, Receptacle, Red	A24285-ND	.52	.41	229969-4
36	—	Position, Receptacle, Red	A24286-ND	.52	.41	229969-3
50	—	Position, Receptacle, Red	A24287-ND	.12	.10	229969-1
64	—	Position, Receptacle, Red	A24289-ND	.62	.48	229969-2
24	—	Position, Plug, Blue	A24192-ND	.86	.69	229968-4
36	—	Position, Plug, Blue	A24193-ND	.58	.47	229968-3
50	—	Position, Plug, Blue	A24194-ND	.14	.11	229968-1
64	—	Position, Plug, Blue	A24288-ND	.62	.48	229968-2
Hardware Kits						
Screw Lock Hardware Kit			A1525-ND	2.21	1.70	552568-1
Bail Lock Hardware Kit			A1526-ND	2.05	1.57	552567-1
Bent Bail Lock Hardware Kit use w/90° Strain Relief Cover			A24224-ND	1.91	1.47	552567-2
CHAMP-LOK Hardware Kit for 36 & 50 Pos. Thin Flange			A24226-ND	2.52	1.94	553359-1
Tools						
Insertion Tool for CHAMP IDC Connector			A1528-ND	174.90	—	229764-2
T-Handle Wire Insertion Tool			A1529-ND	8.82	—	229384-1
Portable Hand Operated Tool (MI-1)			A24382-ND	806.65	—	229378-1
Palm Grip Tool			A24383-ND	136.00	—	229451-1

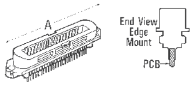
No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Strain Relief Covers					
180° Snap-On					
14	.175 - .220 (4.45 - 5.59)	A24264-ND	1.19	.92	552079-1
	.265 - .310 (6.73 - 7.87)	A24265-ND	2.21	1.70	2-552079-1
24	.230 - .280 (5.84 - 7.11)	A24266-ND	1.63	1.25	552076-1
	.280 - .320 (7.11 - 8.13)	A1506-ND	1.80	1.38	1-552076-1
	.320 - .380 (8.13 - 9.65)	A24267-ND	1.89	1.45	2-552076-1
36	.290 - .360 (7.37 - 9.14)	A24268-ND	1.73	1.33	552073-1
	.360 -.430 (9.14 - 10.92)	A1507-ND	1.64	1.26	552073-5
	.430 - .500 (10.92 - 12.70)	A24269-ND	1.74	1.34	552073-6
50	.330 - .380 (8.38 - 9.65)	A24270-ND	2.23	1.71	3-552008-1
	.380 - .430 (9.65 - 10.92)	A24271-ND	1.38	1.06	2-552008-1
	.430 -.490 (10.92 - 12.45)	A1548-ND	1.90	1.71	552008-1
	.480 - .550 (12.19 - 13.97)	A24272-ND	1.38	1.06	4-552008-1
	.430 - .500 (10.92 - 12.70)	A24273-ND	2.17	1.67	552003-1
64	.480 - .540 (12.19 - 13.72)	A24274-ND	1.96	1.51	552082-1

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
90° Snap-On					
14	.185 - .230 (4.70 - 5.84)	A24275-ND	2.71	2.08	552412-1
	.250 - .300 (6.35 - 7.62)	A24276-ND	1.44	1.11	1-552412-1
24	.250 - .300 (6.35 - 7.62)	A1538-ND	1.13	.87	552413-1
	.305 - .360 (7.75 - 9.14)	A24277-ND	2.40	1.84	1-552413-1
36	.305 - .360 (7.75 - 9.14)	A1539-ND	.97	.75	552414-1
	.330 - .380 (8.38 - 9.65)	A24278-ND	2.22	1.71	3-552414-1
50	.340 - .400 (8.64 - 10.16)	A24279-ND	.98	.76	552014-1
	.315 - .415 (8.00 - 10.54)	A24280-ND	.69	.53	1-552011-1
	.415 - .465 (10.54 - 11.81)	A1549-ND	.53	.43	552011-1
	.475 - .540 (12.07 - 13.72)	A24281-ND	.89	.68	552731-1
64	.410 - .475 (10.41 - 12.07)	A24282-ND	.94	.72	552496-1
	.475 - .540 (12.07 - 13.72)	A24283-ND	1.36	1.05	1-552496-1
	.540 - .605 (13.72 - 15.37)	A24284-ND	1.36	1.05	2-552496-1
No. of Positions	**Description**	**Digi-Key Part No.**	**Price Each 1**	**25**	**AMP Part No.**
Cable to Panel Mount (2 required per assembly)					
24	Snap-On	A24290-ND	.89	.69	1-552298-1
50	Snap-On	A24291-ND	.28	.22	1-552027-1
64	Snap-On	A24292-ND	.59	.46	1-552296-1

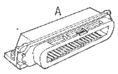
Vertical Mount



Edge Mount



Right Angle



No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Vertical Mount Connectors						
14	1.750 (44.45)	Receptacle, Screw or Bail Lock	A26165-ND	9.98	7.98	552212-1
24	2.175 (55.25)	Plug, Screw Lock	A24350-ND	8.40	6.72	552221-1
		Receptacle, Screw or Bail Lock	A1510-ND	8.91	7.98	552224-1
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A1511-ND	8.33	6.66	522235-1
50	3.280 (83.31)	Plug, Screw Lock	A1550-ND	5.95	5.33	552116-1
		Receptacle, Screw or Bail Lock	A1552-ND	5.98	5.36	552118-1
64	3.875 (98.43)	Plug, Screw Lock	A24351-ND	11.28	9.02	552243-1
		Receptacle, Screw or Bail Lock	A24352-ND	9.90	7.92	552246-1
Edge Mount Connectors						
24	2.175 (55.25)	Receptacle, Screw or Bail Lock	A1512-ND	9.43	7.54	552230-1
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A1513-ND	9.30	7.44	552241-1
50	3.280 (83.31)	Receptacle, Screw or Bail Lock	A1553-ND	8.95	7.16	552130-1
Edge Mount With ACTION PIN Connectors						
36	2.685 (68.20)	Plug	A24388-ND	12.10	9.68	553444-3
		Receptacle	A24389-ND	9.13	7.30	553443-3
50	3.280 (83.31)	Receptacle	A24390-ND	4.85	3.88	553443-4
		Plug	A24392-ND	4.85	3.88	553444-4
		Recept., Self-Retained Terminals	A24393-ND	5.45	4.36	554753-1
		Plug, Self-Retained Terminals	A24394-ND	6.15	4.92	554758-1
		Receptacle, Shielded for Screw Lock	A24395-ND	8.68	6.94	557984-1
64	3.875 (98.43)	Plug	A24396-ND	13.13	10.50	554759-1
		Receptacle	A24397-ND	10.05	8.04	553443-5
Right-Angle Mount Connectors						
14	1.750 (44.45)	Receptacle, Standard, Self-Tapping	A24353-ND	10.20	8.16	552738-1
24	2.175 (55.25)	Receptacle, Standard, Self-Tapping	A1514-ND	8.98	7.18	552740-1
		Receptacle, Standard, Self-Tapping	A24354-ND*	8.98	7.18	552791-1
		Plug, Standard, Self-Tapping	A24355-ND	9.15	7.32	552741-1
		Receptacle, Reverse, Self-Tapping	A24356-ND	10.00	8.00	552740-2
36	2.685 (68.20)	Receptacle, Standard, Self-Tapping	A1515-ND	7.40	5.92	552742-1
50	3.280 (83.31)	Plug, Standard, Self-Tapping	A1555-ND	8.27	6.14	552726-1
		Receptacle, Standard, Self-Tapping	A1554-ND	8.30	6.84	552725-1
		Receptacle, Reverse, Self-Tapping	A24357-ND	5.68	4.54	552725-3
		Plug, Reverse, Self-Tapping	A24358-ND	7.10	5.68	552726-3
		Receptacle, Standard, Thru-Bolt	A24359-ND	7.90	6.32	552725-2
64	3.875 (98.43)	Receptacle, Standard, Self-Tapping	A24360-ND	9.48	7.58	552744-1
		Plug, Standard, Self-Tapping	A24361-ND	17.73	14.18	552745-1
No. of Pos.	**Cable Range Inch (mm)**	**Description**	**Digi-Key Part No.**	**Price Each 1**	**25**	**AMP Part No.**
90° Slide-On Strain Relief Cover Kits & Accessories						
50	.425 - .500 (10.80 - 12.70)	Tapered Cover Kit	A24341-ND	1.92	1.54	552560-5
		Cable Clamp	A24342-ND	.21	.18	1-229910-1
	.350 - .425 (8.89 - 10.80)	Standard Cover Kit	A24343-ND	1.53	1.23	552960-2
		Tapered Cover Kit	A24344-ND	.49	.40	552560-1
	.500 - .550 (12.70 - 13.97)	Standard Cover Kit	A24345-ND	1.33	1.07	552960-5
		Cable Clamp	A24346-ND	.48	.39	4-229910-1
	.425 - .550 (10.80 - 13.97)	90° Slide-On Cover	A24347-ND	.57	.46	552617-1
	.425 Max. (10.80)	Std. Slide-On Cvr. use w/Adj. Clamp	A24348-ND	.66	.53	552760-1
		Adjustable Cable Clamp,	A24349-ND	.37	.30	552763-1
Hardware Kits						
Screw Lock Hardware Kit, Vertical Mount			A1523-ND	3.45	2.76	552563-1
Bail Lock Hardware Kit, Vertical Mount			A1520-ND	1.88	1.50	552562-1
J-Hook Screw Lock, Vertical Mount Kit			A24364-ND	4.45	3.56	552690-1
Screw Lock Hardware Kit, Edge Mount			A1521-ND	4.75	3.80	552675-1
Screw Lock Hardware Kit, Right Angle Mount			A1524-ND	1.60	1.28	552631-1
Metric Front Mount Kit, Right Angle			A24362-ND	4.10	3.28	552633-3
Metric Rear Mount Kit, Right Angle			A24363-ND	4.10	3.28	552633-4
Bent Bail Lock, use with 90° Strain Relief			A24340-ND	1.76	1.43	552561-4
Bail Lock, with Hex Nut 4-40			A24232-ND	1.31	1.05	552561-6
Bail Lock, 90° Bail Clip			A24233-ND	2.08	1.66	552561-8
Accessories						
Metric Standoff Studs			A24381-ND	2.04	1.64	552634-3
Standoff Mounting Studs 4-40, Length .640 (16.26)			A24398-ND	.60	.48	229995-2
Standoff Mounting Studs 4-40, Length 1.000 (25.40)			A24399-ND	.79	.64	552113-1
4-40 Pan Head Screw - Length .425" (10.80)			A26166-ND	.11	.06	229996-2
4-40 Pan Head Screw - Length .350" (8.89)			A24385-ND	.13	.07	229996-3
J-Hook Latch for Panel Mount Recpt. to 90° Cable			A24386-ND	.53	.43	552655-1
4-40 Mounting Screw			A1516-ND	.95/10		229911-1

* For IEEE-488 applications

AMP tyco Electronics
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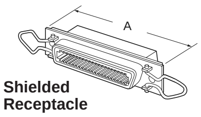
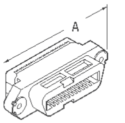
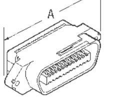
CHAMP® Latch Parallel Interface and Ribbon Cable Connectors



Shielded Receptacle



Receptacle

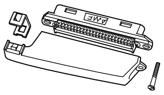


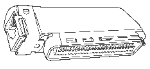
Plug

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
CHAMP® Latch Low Profile Connectors - Plastic						
Screw Lock						
14	1.750 (44.45)	Plug	A24213-ND	7.87	7.15	553596-1
14	1.750 (44.45)	Receptacle	A24214-ND	7.87	7.15	553597-1
24	2.175 (55.25)	Plug	A1559-ND	7.49	6.81	553598-1
24	2.175 (55.25)	Receptacle	A1561-ND	7.49	6.81	553599-1
36	2.685 (68.20)	Plug	A1563-ND	7.63	6.94	553600-1
36	2.685 (68.20)	Receptacle	A1565-ND	7.63	6.94	553601-1
50	3.280 (83.31)	Plug	A1567-ND	9.39	8.41	553602-1
50	3.280 (83.31)	Receptacle	A1569-ND	5.71	5.19	553603-1
64	3.875 (98.43)	Receptacle	A24190-ND	29.12	26.46	552838-1
Bail Lock						
24	2.175 (55.25)	Receptacle	A1561-ND	7.49	6.81	553599-1
36	2.685 (68.20)	Plug	A1564-ND	7.63	6.94	554084-1
36	2.685 (68.20)	Receptacle	A1565-ND	7.63	6.94	553601-1
50	3.280 (83.31)	Receptacle	A1569-ND	5.71	5.19	553603-1
64	3.651 (92.74)	Plug	A24221-ND	29.12	26.46	552933-1
64	3.875 (98.43)	Receptacle	A24190-ND	29.12	26.46	552838-1
Panel Mount						
24	2.175 (55.25)	Plug	A24215-ND	7.49	6.81	554103-1
24	2.175 (55.25)	Receptacle	A24216-ND	7.49	6.81	554088-1
36	2.685 (68.20)	Receptacle	A1566-ND	7.94	7.22	554089-1
50	3.280 (83.31)	Receptacle	A1570-ND	7.83	6.99	554090-1
64	3.875 (98.43)	Receptacle	A24191-ND	40.45	32.36	552843-1
Shielded CHAMP® Latch Panel Mount Connectors - Plastic						
Screw Lock, Preassembled						
24	2.205 (56.01)	Receptacle, 6-32	A1556-ND	9.04	8.21	554434-1
50	3.310 (84.07)	Receptacle, 4-40	A1557-ND	15.57	13.94	554436-2
Bail Lock, Preassembled						
36	2.715 (68.96)	Receptacle, 4-40	A1575-ND	8.96	8.15	554346-2
36	2.715 (68.96)	Receptacle, 4-40	A24218-ND*	8.96	8.15	555983-1
50	3.310 (84.07)	Receptacle, 4-40	A24219-ND*	5.08	4.62	554902-1
Screw Lock, Loose Pieces						
24	2.380 (60.45)	Receptacle	A1558-ND	9.04	8.21	554349-1
36	2.380 (60.45)	Receptacle	A24217-ND	8.86	8.05	554348-1
50	3.475 (88.27)	Receptacle	A1574-ND	8.62	7.84	554350-1
Hardware Kits						
		Bail Lock, 4-40 UNC x .625"(15.88)	A24384-ND	1.84	1.67	552567-3
		Ball Lock, 4-40 UNC x .500"(12.70)	A1517-ND	2.03	1.69	552561-3
		Front Panel Mount Metric Screw Lock	A24222-ND	2.21	2.02	553636-2
		Rear Panel Mount Metric Screw Lock	A24223-ND	3.58	3.26	553636-3
		Shielded Screw Lock, Rear Mount 4-40	A1578-ND	1.76	1.61	554272-1
		Shielded Screw Lock, Rear Mount Metric	A1579-ND	3.06	2.74	554808-1
Accessories						
		Latch Cable Strain Relief Clip, 50 Pos. for Low Profile	A24227-ND	1.94	1.77	554099-1

* Does not have boss feature. Boss is a .040" (1.02) shoulder on front of shield.

CHAMP® Connector Kits





Modular Adapter

Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
50 Position with Tapered Cover Solid and Stranded Kits					
0.550 max. (13.97)	Plug, Black	A24324-ND	3.50	2.84	552382-1
0.550 max. (13.97)	Receptacle, Black	A24325-ND	3.22	2.61	552383-1
.350 - .425 (8.89 - 10.80)	Plug, Black	A1571-ND	3.47	3.17	229912-1
.350 - .425 (8.89 - 10.80)	Receptacle, Black	A1572-ND	3.47	3.17	229913-1
.350 - .425 (8.89 - 10.80)	Plug, Gray	A24326-ND	2.84	2.30	229912-4
.350 - .425 (8.89 - 10.80)	Receptacle, Gray	A24327-ND	2.84	2.30	229913-4
.350 - .425 (8.89 - 10.80)	Plug with Dust Cover, Black	A24328-ND	2.65	2.15	1-229912-1
.350 - .425 (8.89 - 10.80)	Recept. with Dust Cover, Black	A24329-ND	2.65	2.15	1-229913-1
.350 - .425 (8.89 - 10.80)	Recept. with Dust Cover, Gray	A24330-ND	3.08	2.49	1-229912-4
.350 - .425 (8.89 - 10.80)	Recept. with Dust Cover, Gray	A24331-ND	3.13	2.53	1-229913-4
.425 - .500 (10.80 - 12.70)	Plug, Black	A24332-ND	2.84	2.30	2-229912-1
.425 - .500 (10.80 - 12.70)	Receptacle, Black	A24333-ND	2.84	2.30	2-229913-1
.425 - .500 (10.80 - 12.70)	Plug with Dust Cover, Black	A24334-ND	2.91	2.36	3-229912-1
.425 - .500 (10.80 - 12.70)	Receptacle with Dust Cover, Black	A24335-ND	2.91	2.36	3-229913-1
.350 - .425 (8.89 - 10.80)	Plug, Black	A24336-ND	3.85	3.12	552402-1
.350 - .425 (8.89 - 10.80)	Receptacle, Black	A24337-ND	4.51	3.65	552403-1
50 Position CHAMP System 5 Connectors					
.51 (12.95)	Plug, 24 AWG Solid, Red	A24365-ND	14.71	11.90	1-558693-1
.350 - .680 (8.89 - 17.27)	120° Strain Relief, Light Almond	A24366-ND	2.16	1.75	569336-1
.350 - .680 (8.89 - 17.27)	120° Strain Relief, Black	A24367-ND	2.16	1.75	569336-3
.650 - .750 (16.51 - 19.05)	90° Strain Relief, Lt. Almond Cvr.	A24368-ND	3.53	2.85	569335-1
50 Position CHAMP Connector With Crimp Cable Clamp					
—	Plug , 24-26 AWG Solid or Stranded	A24369-ND	2.57	2.08	553213-3
—	Recept., 24-26 AWG Solid or Strand.	A24370-ND	2.57	2.08	553212-3
—	Recept., 24-26 AWG Solid or Strand.	A24371-ND†	3.45	2.80	554886-2
—	Wear Adapter (Plug to Recept. Assy.)	A24372-ND	15.60	12.62	552705-1
CHAMP-LOK Hardware Kits					
	Locking Latch, 36 or 50 Positions	A24338-ND	.37	.30	552723-1
	Locking Latch, 14 or 24 Positions	A24339-ND	.82	.66	552723-2

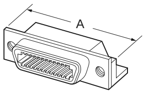
† Integral locking latch

Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Back-to-Back Connector Assembly					
.380 - .400 (9.65 - 10.16)	24 AWG Cable to Cable Kit, 50 Pos.	A24373-ND	24.70	19.97	553257-1
.300 - .375 (7.62 - 9.53)	Back to Back Kit, 24 Pos.	A24374-ND	23.99	19.40	555182-1
.300 - .375 (7.62 - 9.53)	Snap-on-Cover, 24 Pos.	A24375-ND	4.35	3.52	554831-1
Interface Bus Connector					
—	24 Position with 2 Jackscrews	A24376-ND	13.87	11.21	554815-1
50 Positions Gender Menders					
—	Receptacle with J-Hook Hardware	A24377-ND	15.32	12.39	554875-1
—	Receptacle w/out J-Hook Hardware	A24378-ND	17.08	13.82	554875-2
—	Plug with J-Hook Hardware	A24379-ND	30.41	24.59	554876-1
—	Plug w/out J-Hook Hardware	A24380-ND	22.35	18.07	554876-2

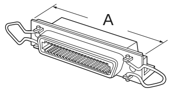
CHAMP® Shielded Connectors

Terminals: Selectively plated gold over nickel plated high strength copper alloy, tin plated tails. **Housing & Cover Material:** Thermoplastic, black

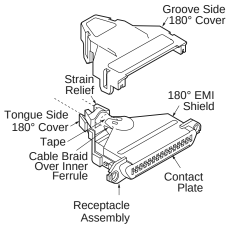
Screw-Lock



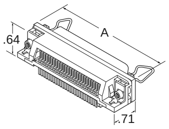
Bail Lock



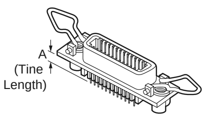
Cable Connector Kits



Board Lock Grounding



Vertical Mount



No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Right Angle, Preassembled Screw Lock						
24	2.205 (56.01)	Receptacle, Standard, 6-32	A15016-ND	11.25	10.04	553811-1
24	2.205 (56.01)	Receptacle, Reverse, 6-32	A24294-ND	29.75	23.80	553811-2
50	3.305 (83.95)	Receptacle, Reverse, 4-40	A24295-ND	8.83	7.06	553813-4
50	3.305 (83.95)	Receptacle, Standard, 4-40	A15001-ND	9.52	8.53	553813-3
Right Angle, Preassembled Bail Lock						
36	2.710 (68.83)	Receptacle, Standard, 4-40	A24298-ND	18.15	14.52	555233-1
50	3.305 (83.95)	Receptacle, Standard, 4-40	A15002-ND	8.95	7.16	554901-1
Right Angle, Board Lock Grounding						
24	2.205 (56.01)	Screw Lock, 6-32, Standard	A24299-ND	8.40	6.72	554923-2
24	2.205 (56.01)	Screw Lock, 6-32, Reverse	A24300-ND	9.60	7.68	554923-1
24	2.205 (56.01)	Screw Lock, 6-32, Low Pro., Reverse	A24301-ND	13.20	10.56	555139-1
24	2.205 (56.01)	Screw Lock, 6-32, Low Profile, Std.	A24302-ND	33.88	27.10	555139-2
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A24303-ND	7.18	5.74	555119-1
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A15004-ND*	6.98	5.58	555520-2
50	3.320 (84.33)	Bail Lock, 4-40, Standard	A15003-ND	9.73	7.78	555057-1
50	3.320 (84.33)	Screw Lock, 4-40, Standard	A24304-ND	12.03	9.62	557932-2
50	3.310 (84.07)	IBM Compatible, Bail Lock, 4-40	A15005-ND	11.38	10.19	555149-1
Vertical Mount						
24	.150 (3.81)	Screw Lock, 6-32	A24305-ND	12.70	10.16	554501-1
24	.215 (5.46)	Screw Lock, 6-32	A24306-ND	17.98	14.38	554501-2
36	.215 (5.46)	Bail Lock, 4-40	A24307-ND	10.88	8.70	554145-4
50	.135 (3.43)	Bail Lock, 4-40	A15008-ND	13.65	12.23	554216-3
50	.200 (5.08)	Screw Lock, 4-40	A24308-ND	10.93	8.74	554217-4
Cover Kits & Accessories						
24	—	180° Cover	A15013-ND	9.28	7.42	554944-1
36	—	180° Cover	A15014-ND	3.58	2.86	554945-1
50	—	180° Cover - Cab. dia. ≤ .500 (12.70)	A15015-ND	3.40	3.05	554946-1
50	—	180° Cover - Cab. dia. ≥ .500 (12.70)	A24320-ND	2.38	1.91	554946-2
—	—	Cap. Pan Head Screw, 4-40 (2 req.)	A24321-ND	.15	.13	554726-1
—	—	Inner Ferrule .350 (8.89) Inside Dia.	A24322-ND	.30	.25	554725-3
—	—	Inner Ferrule .500 (12.7) Inside Dia.	A24323-ND	.33	.27	554725-6
Hardware Kits						
—	—	Bail Lock, Short, 4-40UNC-2Ax.25"	A24296-ND	1.98	1.58	554818-2
—	—	Bail Lock, Short, 4-40UNC-2Ax.50"	A24297-ND	4.10	3.28	554818-1
—	—	Vert. Mt., Pan Head Screws (2 req.)	A24309-ND	3.25	2.60	554043-2
—	—	Vert. Mt., Metric Standoff Screws (panhead screw & standoff)	A24310-ND	6.15	4.92	554858-1

* Has drawn metal shield

No. of Pos.	Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Cable Connector Kits						
Plug — Solid or Stranded						
24	.250 - .500 (6.35 - 12.70)	Screw Lock, 24-26 AWG	A24311-ND	8.18	6.54	554948-4
24	.250 - .500 (6.35 - 12.70)	Screw Lock, 26-28 AWG	A15009-ND	16.28	13.02	554948-3
36	.250 - .500 (6.35 - 12.70)	Screw Lock, 24-26 AWG	A24313-ND	17.25	13.80	554951-2
36	.250 - .500 (6.35 - 12.70)	Bail Lock, 24-26 AWG	A24314-ND	5.65	4.52	554950-2
36	.250 - .500 (6.35 - 12.70)	Bail Lock, 26-28 AWG	A15010-ND	6.93	5.54	554950-1
50	.350 - .625 (8.89 - 15.88)	Screw Lock, 24-26 AWG	A24315-ND	6.63	5.30	554954-2
50	.350 - .625 (8.89 - 15.88)	Screw Lock, 26-28 AWG	A15012-ND	6.50	5.20	554954-1
50	.350 - .625 (8.89 - 15.88)	Bail Lock, 26-28 AWG	A15011-ND	6.50	5.82	554953-1
50	.350 - .625 (8.89 - 15.88)	Bail Lock, 24-26 AWG	A24316-ND	5.93	4.74	554953-2
Receptacle — Solid or Stranded						
50	.350 - .625 (8.89 - 15.88)	Screw or Bail Lock, 24-26 AWG	A24317-ND	14.58	11.66	554955-2
50	.350 - .625 (8.89 - 15.88)	Screw or Bail Lock, 26-28 AWG	A24318-ND	6.23	4.98	554955-1
50	.370 max. (9.40)	Bail Lock, 90° Exit, Gray	A24319-ND	7.95	6.36	5-555012-2

AMP tyco Electronics **Authorized Distributor**

1mm Card Edge Connectors Slot 1 / AGP / NLX

1mm Standard Edge Connectors have been developed specifically to meet the interconnection requirements for the latest technological advances in personal computers.

These include Intel's Pentium II™ processor (Slot 1), Accelerated Graphics Port (AGP), and the new NLX Form Factor motherboard.

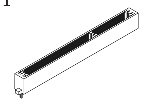
FEATURES:

• 1mm contact spacing compatible with latest interconnection technology for Slot 1, AGP and NLX • High temperature housings suitable for surface mount reflow processes • Pivoting board lock feature offering connector centering before contacts enter pc board holes • Certified by Canadian Standards Association to Canadian and United States Requirements • Produced under a Quality Management System certified to ISO 9001

PERFORMANCE CHARACTERISTICS:

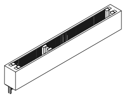
• **Operating Temperature:** 0°C to 85°C • **Voltage:** 250 VAC • **Characteristic Impedance:** 35<20<80 ohms • **Termination Resistance:** 20mΩ maximum (initial) • **Insulation Resistance:** 1000MΩ minimum • **Dielectric Withstanding Voltage:** 400VAC @ sea level • **Durability:** 50 cycles minimum • **Engaging Force:** 3.3 oz. (.917 N) maximum average per contact pair • **Separating Force:** 1.98 to .35 oz. (.550 to .097N) per contact pair

Fig. 1



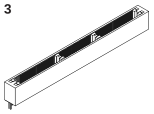
Fully compatible with Intel Pentium II processor module

Fig. 2



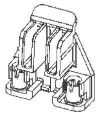
Brings high performance 3-D graphics and full motion video to the desktop

Fig. 3



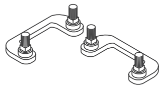
Riser Card Interconnect for new NLX Form Factor motherboard

Fig. 4



Complete 2 module kit. Required for one processor.

Fig. 5



Housing: Nylon, black
Hardware: Brass, copper alloy finish

Fig. 6

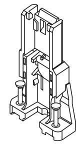


Fig. 7

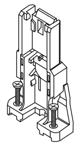


Fig. 8

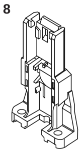


Fig. 9

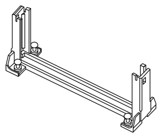


Fig. 10

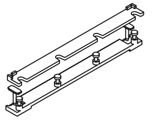


Fig.	Description	Solder Tail Length	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	1mm Standard Edge Connector					
1	242 Position Slot 1 Connector for Pentium II and Celeron Processors	.100 (2.54)	A15102-ND	5.33	4.76	145251-2
2	124 Position AGP (Accelerated Graphics Port) Connector for AGP Card	.085 (2.16) .100 (2.54)	A15103-ND A15104-ND	3.84 3.84	3.43 3.44	145263-1 145263-2
3	340 Position NLX Riser Card Interconnect	.100 (2.54)	A15106-ND	7.25	6.47	145275-2
	Celeron Retention Modules					
4	Module Kit with Captive Brass Fasteners, 2 pieces (Use with 145312-1 Bridge/Stud Assembly)		A15108-ND	5.66	2.83	145342-1
5	Bridge/Stud Assembly for #145342-1. One Bridge/Stud Assembly Required for Each Retention Module		A15109-ND	2.67	1.61	145312-1
	Universal Retention Modules (URM)					
6	URM with Straight Pin Plastic Fasteners. Compatible with .159” (4.04mm) Holes, 2 pieces		A15115-ND	2.20	1.27	145417-2
7	URM with Screw Down Fasteners. Compatible with .140” (3.56mm) or .159” (4.04mm) Holes, 2 pieces		A15116-ND	2.20	1.27	145418-2
8	URM with Clearance Hole for #6 Screw. Customer Supplies Fastener Hardware, 2 pieces		A15117-ND	2.20	1.27	145419-2
	Integrated Retention Modules					
9	Pentium II Retention Module with Fastex Plastic Fasteners Pentium II Retention Module with Slotted, Captive Nuts		A15113-ND A15118-ND	5.48 7.22	2.75 3.62	145327-1 145286-1
	Heat Sink Support Kit					
10	Heat Sink Support Base with Plastic Fasteners for use with Integrated Retention Module #145327-1		A15114-ND	6.87	3.44	145308-1

3M

D-Sub Connectors

Fig. 1

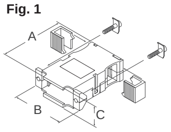


Fig. 2

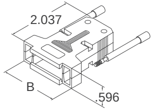
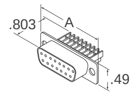
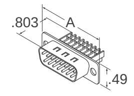


Fig. 3



Socket

Fig. 4



Plug

Metalized Plastic EMI Snap Together and Thumbscrew Junction Shells: Exceptional protection from EMI/ESD shielding • **Snap Together:** 90° exit from both sides or back • **Thumbscrew:** Stable thumbscrew retention feature
Features: Shell: • Material: FR-ABS • Flammability: UL 94V-0 **Grommet for Thumbscrew:** • Material: EPDM Rubber **Hardware** • Material: Steel • Plating: Zinc **Temperature Rating:** -65°C to +105°C **UL File No.:** E68080

Socket and Plug Connectors:
• IDC contact with integral wire strain relief • #20-30 AWG discrete wire capability • Tin plated steel shells for electrical grounding and shielding capability
Features: Insulation: • Material: Thermoplastic Glass Filled Polyester • Flammability: UL 94V-0 • Color: Black **Contact:** • Plug Material: Copper Alloy • Socket Material: Phospher Bronze **Plating:** • Underplate: 50µ” (1.27 µm) Nickel • Wiping Area: Gold — MIL-G-45204, Type II, Grade C **Shell:** • Material: Steel • Plating: Tin **Temperature Rating:** -65°C to +105°C **UL File No.:** E68080

Conn. Size	Dim. Inch A	B	C	Shell Plating	Max. Cable Diam. (In.)	Digi-Key Part No.	Price Each 1	25	100	3M Part No.
				Fig. 1 — EMI Snap Together Backshells						
9	2.000	1.215	.650	Nickel Plated	.375	3M1309-ND	5.37	4.48	3.58	DDM-09-000-1-BSK1
15	1.925	1.540	.650		.375	3M1315-ND	5.79	4.83	3.86	DDM-15-000-1-BSK1
25	2.115	2.100	.650		.500	3M1325-ND	5.88	4.90	3.92	DDM-25-000-1-BSK1
37	2.260	2.740	.650		.500	3M1337-ND	6.99	5.83	4.66	DDM-37-000-1-BSK1
9	2.000	1.215	.650	Non-Plated	.375	3M1319-ND	5.79	4.83	3.86	DDM-09-000-3-BSK1
15	1.925	1.540	.650		.375	3M13115-ND	3.78	3.15	2.52	DDM-15-000-3-BSK1
25	2.115	2.100	.650		.500	3M13125-ND	4.89	4.08	3.26	DDM-25-000-3-BSK1
37	2.260	2.740	.650		.500	3M13137-ND	4.20	3.50	2.80	DDM-37-000-3-BSK1
				Fig. 2 — EMI Thumbscrew Junction Backshells						
9	—	1.353	—	Nickel Plated	.365	3M1339-ND	6.51	5.43	4.34	DDM-09-365-1-BSK1
15	—	1.683	—		.435	3M13215-ND	6.42	5.35	4.28	DDM-15-435-1-BSK1
25	—	2.230	—		.530	3M13225-ND	7.62	6.35	5.08	DDM-25-530-1-BSK1
37	—	2.879	—		.650	3M13237-ND	8.10	6.75	5.40	DDM-37-650-1-BSK1

Conn. Size	Dim. A (In.)	AWG	Contact Plating	Digi-Key Part No.	Price Each 1	25	100	3M Part No.
				Fig. 3 — Socket Connectors				
9	1.21	24-30	30µ”	3M1509-ND	5.16	4.30	3.44	DDM-09S-109A-TG30
			10µ”	3M1519-ND	5.16	4.30	3.44	DDM-09S-109A-TR
		20-22	30µ”	3M1529-ND	5.16	4.30	3.44	DDM-09S-209A-TG30
			10µ”	3M1539-ND	5.16	4.30	3.44	DDM-09S-209A-TR
15	1.54	24-30	30µ”	3M1515-ND	5.52	4.60	3.68	DDM-15S-115A-TG30
			10µ”	3M15115-ND	5.52	4.60	3.68	DDM-15S-115A-TR
		20-22	30µ”	3M15215-ND	5.52	4.60	3.68	DDM-15S-215A-TG30
			10µ”	3M15315-ND	5.52	4.60	3.68	DDM-15S-215A-TR
25	2.09	24-30	30µ”	3M1525-ND	5.94	4.95	3.96	DDM-25S-125A-TG30
			10µ”	3M15125-ND	5.94	4.95	3.96	DDM-25S-125A-TR
		20-22	30µ”	3M15225-ND	5.94	4.95	3.96	DDM-25S-225A-TG30
			10µ”	3M15325-ND	5.94	4.95	3.96	DDM-25S-225A-TR
37	2.73	24-30	30µ”	3M1537-ND	7.56	6.30	5.04	DDM-37S-137A-TG30
			10µ”	3M15137-ND	7.56	6.30	5.04	DDM-37S-137A-TR
		20-22	30µ”	3M15237-ND	10.71	8.93	7.14	DDM-37S-237A-TG30
			10µ”	3M15337-ND	10.71	8.93	7.14	DDM-37S-237A-TR
				Fig. 4 — Plug Connectors				
9	1.21	24-30	30µ”	3M1409-ND	5.52	4.60	3.68	DDM-09P-109G-TG30
			10µ”	3M1419-ND	5.52	4.60	3.68	DDM-09P-109G-TR
		20-22	30µ”	3M1429-ND	5.91	4.93	3.94	DDM-09P-209G-TG30
			10µ”	3M1439-ND	5.91	4.93	3.94	DDM-09P-209G-TR
15	1.54	24-30	30µ”	3M1415-ND	6.21	5.18	4.14	DDM-15P-115G-TG30
			10µ”	3M14115-ND	6.21	5.18	4.14	DDM-15P-115G-TR
		20-22	30µ”	3M14215-ND	6.84	5.70	4.56	DDM-15P-215G-TG30
			10µ”	3M14315-ND	6.84	5.70	4.56	DDM-15P-215G-TR
25	2.09	24-30	30µ”	3M1425-ND	6.96	5.80	4.64	DDM-25P-125G-TG30
			10µ”	3M14125-ND	6.96	5.80	4.64	DDM-25P-125G-TR
		20-22	30µ”	3M14225-ND	8.07	6.73	5.38	DDM-25P-225G-TG30
			10µ”	3M14325-ND	8.07	6.73	5.38	DDM-25P-225G-TR
37	2.73	24-30	30µ”	3M1437-ND	9.09	7.58	6.06	DDM-37P-137G-TG30
			10µ”	3M14137-ND	9.09	7.58	6.06	DDM-37P-137G-TR
		20-22	30µ”	3M14237-ND	10.71	8.93	7.14	DDM-37P-237G-TG30
			10µ”	3M14337-ND	10.71	8.93	7.14	DDM-37P-237G-TR

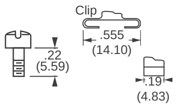
3M9001-ND IDC D-Sub Hand Insertion Tool **$495.00**
3M9002-ND IDC D-Sub Discrete Tooling Nest **$1575.00**

3M

D-Sub Mounting Hardware

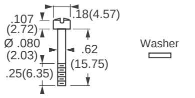
Fig.	Description	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
1	Jack Screw Kit	MDVS22-ND	1.00	.76	.69	3342-1
2	Jack Screw Kit	MDVS62-ND	1.04	.79	.72	3342-2
3	Jack Screw Kit	MDVS35-ND	.71	.54	.49	3342-4
4	Screw Mount Kit	MDSMK1-ND	.79	.61	.55	3342-3
5	Jack Socket Kit	MDVS44-ND	1.77	1.35	1.22	3341-1S
6	Jack Socket Kit	MDVS73-ND	1.60	1.22	1.11	3341-2
7	Jack Socket Kit	MDVS50-ND	1.77	1.35	1.22	3341-1L
8	Jack Socket Kit	MDVS81-ND	1.85	1.41	1.28	3341-4

Fig. 1



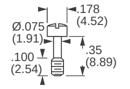
Kit includes 2 screws and 2 clips.

Fig. 2



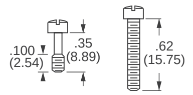
Kit includes 2 screws and 2 flat washers.

Fig. 3



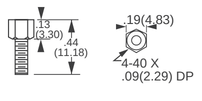
Kit includes 2 screws.

Fig. 4



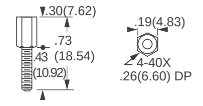
Kit includes 2 screws.

Fig. 5



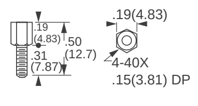
Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

Fig. 6



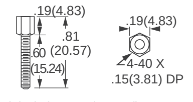
Kit includes 2 sockets, 2 lock washers, and 2 nuts.

Fig. 7



Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

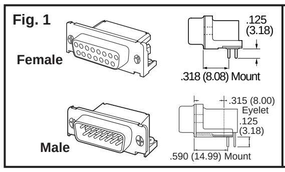
Fig. 8

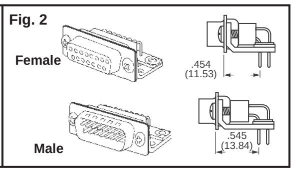


Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

AMP tyco Electronics
Authorized Distributor

AMPLIMITE®
D-Sub Connectors





All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with socket contacts.

Steel Tin Plated Shell HD-20 Series (Fig. 1): • Contact Mating Area Plating: 30µ gold • Eyelets: Brass, Tin Plated • Threaded Inserts: Zinc • Female Screwlock: Zinc • Boardlocks: Copper Alloy, Tin-Lead Plated • Pin Contacts: Brass

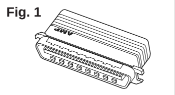
Zinc Plated Shell HDP-20 Series Crimp Snap (Fig. 2): • Contact Mating Area Plating: Gold Flash • Grounding Indents: Without • Recommended PCB Thickness: .062 (1.57mm)

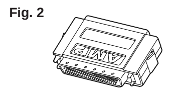
Steel Tin Plated Shell HD-20 Series Solder Cup (Fig. 2): • Contact Mating Area Plating: 30µ gold • Grounding Indents: On Male Plug • Recommended PCB Thickness: .093 (2.36mm)

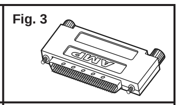
Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts						
1	9	Male	A2096-ND*	2.72	2.44	747250-4
	9	Female	A2100-ND*	2.36	2.12	745781-4
	9	Male	A23272-ND‡	5.31	4.43	747250-3
	9	Female	A23292-ND‡	2.67	2.23	745781-3
	15	Male	A2097-ND*	5.85	4.68	747236-4
	15	Female	A2101-ND*	2.89	2.59	745782-4
	25	Male	A2098-ND*	4.84	4.34	747238-4
	25	Female	A2102-ND*	3.42	3.06	745783-4
	25	Female	A23297-ND‡	6.18	5.15	745783-3
	37	Male	A2099-ND*	10.13	8.10	747252-4
	37	Female	A2103-ND*	4.93	3.94	745784-4
Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes						
1	9	Female	A23291-ND*	5.55	4.63	745781-2
	15	Male	A23270-ND*	4.65	3.88	747236-2
	15	Female	A23294-ND*	6.51	5.43	745782-2
	25	Male	A23271-ND*	5.22	4.35	747238-2
	25	Female	A23296-ND*	7.77	6.48	745783-2
Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks						
1	9	Male	A23273-ND*	6.06	5.05	747250-6
	9	Female	A23293-ND‡	5.97	4.98	745781-6
	15	Female	A23295-ND*	6.93	5.78	745782-6
	25	Female	A23299-ND*	8.19	6.83	745783-6
	25	Female	A23298-ND‡	2.23	1.86	745783-5
	37	Female	A23300-ND*	7.98	6.65	745784-6
Steel, Tin Plated Shell, .318" (8.08mm) Mount with Boardlocks, with Standard Mounting Holes						
1	9	Male	A23275-ND*	6.06	5.05	747840-2
	9	Female	A23301-ND*	1.94	1.62	747844-2
	25	Male	A23283-ND*	8.31	6.93	747842-2
	25	Female	A23310-ND*	3.64	3.04	747846-2
	37	Male	A23288-ND*	12.18	10.15	747843-2
Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts						
1	9	Male	A23277-ND*	1.64	1.37	747840-4
	9	Female	A23303-ND*	1.94	1.62	747844-4
	9	Male	A23276-ND‡	2.04	1.70	747840-3
	9	Female	A23302-ND‡	2.03	1.70	747844-3
	15	Male	A23281-ND*	2.13	1.78	747841-4
	15	Female	A23307-ND*	1.68	1.40	747845-4
	15	Male	A23280-ND‡	6.18	5.15	747841-3
	15	Female	A23306-ND‡	1.60	1.34	747845-3
	25	Male	A23285-ND*	3.73	3.11	747842-4
	25	Female	A23312-ND*	2.98	2.49	747846-4
	25	Male	A23284-ND‡	6.66	5.55	747842-3
	25	Female	A23311-ND‡	2.66	2.22	747846-3
	37	Male	A23289-ND*	4.17	3.48	747843-4
	37	Female	A23315-ND*	5.91	4.93	747847-4
Steel, Tin Plated Shell, .318" (8.08mm) Mount, With Boardlocks, with Fixed Female Screwlocks						
1	9	Male	A23279-ND*	2.33	1.95	747840-6
	9	Female	A23305-ND*	1.94	1.62	747844-6
	9	Male	A23278-ND‡	5.70	4.75	747840-5
	9	Female	A23304-ND‡	2.03	1.70	747844-5
	15	Male	A23282-ND*	2.13	1.78	747841-6
	15	Female	A23309-ND*	7.29	6.08	747845-6
	15	Female	A23308-ND‡	6.06	5.05	747845-5
1	25	Male	A23287-ND*	8.67	7.23	747842-6
	25	Female	A23314-ND*	2.98	2.49	747846-6
	25	Male	A23286-ND‡	6.66	5.55	747842-5
	25	Female	A23313-ND‡	2.46	2.06	747846-5
	37	Male	A23290-ND*	12.57	10.48	747843-6
	37	Female	A23316-ND*	5.91	4.93	747847-6
All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts						
1	25	Female	A23342-ND*	8.13	6.78	748901-1
All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Fixed Female Screwlocks						
1	9	Female	A23343-ND*	8.22	6.85	748979-1
All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts						
1	9	Female	A23338-ND*	5.46	4.55	745394-2
	25		A23337-ND*	6.57	5.48	745392-2
All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks						
1	9	Female	A23339-ND*	6.12	5.10	745395-2
	15		A23340-ND*	6.90	5.75	745396-2
	25		A23341-ND*	7.50	6.25	745397-2
All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes						
1	9	Female	A23334-ND‡	4.23	3.53	745131-1
	15		A23336-ND*	5.16	4.30	745271-2
	25		A23335-ND*	5.64	4.70	745132-2
Steel, Tin Plated .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts						
1	9	Male	A2104-ND*	8.60	6.88	745990-4
	9	Female	A2108-ND*	12.70	10.16	745988-4
	9	Male	A23344-ND‡	12.81	10.68	745990-3
	15	Female	A2109-ND*	14.55	11.64	745984-4
	25	Male	A2106-ND*	15.43	12.34	745994-4
	25	Female	A23349-ND‡	16.53	13.78	745992-3
	37		A2111-ND*	19.65	15.72	745996-4
Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Threaded Inserts						
1	9	Male	A23346-ND*	7.11	5.93	747832-4
	9	Female	A23351-ND*	6.99	5.83	747836-4
	9	Male	A23345-ND‡	13.41	11.18	747832-3
	15	Male	A2105-ND*	6.80	5.44	747833-4
	25	Male	A23348-ND*	4.89	4.08	747834-4
	25	Female	A23354-ND*	4.20	3.50	747838-4
	25	Female	A23353-ND‡	17.16	14.30	747838-3
	37	Male	A2107-ND*	6.68	5.34	747835-4
Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Fixed Female Screwlocks						
1	9	Male	A23347-ND*	16.14	13.45	747832-6
	9	Female	A23352-ND*	6.93	5.78	747836-6
	25	Female	A23355-ND*	19.11	15.93	747838-6
All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts						
1	9	Male	A23375-ND*	5.46	4.55	747467-4
	9	Female	A23359-ND*	5.46	4.55	747459-4
	9	Female	A23358-ND‡	5.16	4.30	747459-3
	15	Female	A23363-ND*	6.15	5.13	747460-4
	15	Female	A23371-ND‡	5.58	4.65	747460-3
	25	Male	A23381-ND*	8.04	6.70	748873-1
	25	Female	A23366-ND‡	6.09	5.08	747461-3
All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Fixed Female Screwlocks						
1	9	Female	A23370-ND*	6.30	5.25	747459-6
	9	Female	A23360-ND‡	5.82	4.85	747459-5
	15	Male	A23382-ND*	8.43	7.03	748952-1
	25	Female	A23368-ND*	7.50	6.25	747461-6
	25	Female	A23367-ND‡	7.02	5.85	747461-5
All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Standard Mounting Holes						
1	9	Male	A23374-ND*	4.95	4.13	747467-2
	9	Female	A23357-ND*	4.68	3.90	747459-2
	9	Male	A23373-ND‡	4.23	3.53	747467-1
	9	Female	A23356-ND‡	4.32	3.60	747459-1
	15	Male	A23376-ND*	5.19	4.33	747468-2
	15	Female	A23362-ND*	5.19	4.33	747460-2
	15	Female	A23361-ND‡	4.68	3.90	747460-1
	25	Male	A23379-ND*	6.84	5.70	748826-1
	25	Female	A23365-ND*	5.64	4.70	747461-2
	25	Male	A23380-ND‡	4.53	3.78	748826-2
	25	Female	A23364-ND‡	5.13	4.28	747461-1
	37	Male	A23378-ND*	7.05	5.88	747470-2
	37	Female	A23369-ND*	7.05	5.88	747462-2
Steel, Tin Plated Shell, .454" (11.53mm) Mount						
2	9	Male	A23386-ND	17.70	14.75	745434-8
	15	Female	A23390-ND	20.58	17.15	745439-4
	25	Female	A23391-ND	24.81	20.68	745440-4
	37	Female	A23392-ND	29.94	24.95	745441-4
	37	Male	A23388-ND‡	27.00	22.50	745437-3
Zinc Plated Shell, .545" (13.84mm) Mount						
2	9	Male	A1020-ND	11.48	9.18	205865-1
	9	Female	A1021-ND	12.38	9.90	205866-1
	15	Female	A1023-ND	14.03	11.22	205868-1
	25	Male	A1024-ND*	15.45	12.36	205857-1
	25	Female	A1025-ND†	16.70	13.36	205858-1
	37	Male	A1026-ND†	18.38	14.70	205859-1
	37	Female	A1027-ND	19.83	15.86	205860-1
Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Standard Mounting Screws						
2	15	Male	A1022-ND	14.30	11.44	745352-4
	15	Female	A23399-ND	17.52	14.60	745113-2
	25	Female	A23401-ND	21.12	17.60	745114-2
	37	Male	A23394-ND	24.60	20.50	745354-4
	37	Female	A23402-ND	25.47	21.23	745115-2
	50	Male	A23395-ND	31.26	26.05	745355-4
	50	Female	A23404-ND	33.60	28.00	745116-2
	50	Female	A23403-ND‡	30.18	25.15	745116-1
Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Female Screwlocks						
2	9	Male	A23397-ND	17.79	14.83	747197-4
	9	Female	A23406-ND	18.42	15.35	747020-2
	15	Female	A23407-ND	20.22	16.85	747021-2
	25	Male	A23396-ND	23.22	19.35	747022-2
	25	Female	A23405-ND	23.40	19.50	745536-2
	50	Male	A23398-ND	33.84	28.20	747497-4
	50	Female	A23409-ND	34.95	29.13	747193-2
	50	Female	A23408-ND‡	32.73	27.28	747193-1

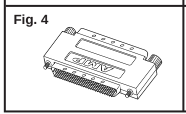
* 30µ Gold † Tin shell ‡ Gold flash on mating end

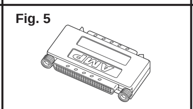
SCSI Terminators

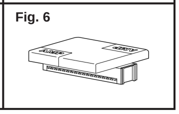












SCSI TYPES:

Single-Ended: Allows up to 5 megabytes per second **A. Passive:** 220/330Ω; for lower data transmission rates • Termination of each signal consists of 220Ω to Term Power Line and 330Ω to ground • 36 resistors • Ideal impedance match, 132Ω **B. Active:** Also referred to as "Regulated" or "Boulay." These terminators include a voltage regulator along with resistors and capacitors. They support applications requiring longer cable lengths and faster data transmission rates. • Eighteen 110Ω resistors • Three or more capacitors • Two voltage reference resistors • One voltage regulator

Differential: Allows up to 10 megabytes per second, cable lengths up to 25 meters • Requires more powerful drivers than single-ended • Ideal impedance match, 122Ω

Force Perfect: Use with near non-SCSI applications wherein the larger bandwidth and faster risetimes create special problems; compensates for variances by averaging the impedance mismatches through diode switching and biasing techniques. Circuitry: Thick film resistors and/or discreet components on aluminum substrate or plastic laminate

Active Negation: Used by SCSI-2 and SCSI-3 Drivers and Receivers in single ended active applications to help ensure clean, noise-free transitions of the signals. These terminators can source as well as sink current, thereby maintaining voltage control.

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Single Ended Passive						
1	50	CHAMP® Style Plug, Mate with .085" (2.16mm) Center-Line SCSI-1	A15032-ND	36.61	29.61	556578-1
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2, Low Profile, ABS	A15036-ND	32.60	29.19	750881-1
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2, Zinc	A23538-ND	45.80	37.04	749535-2
Single Ended Active						
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2, Zinc	A23540-ND	60.42	48.85	750381-1
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2, Low Profile, ABS	A15037-ND	52.03	46.59	869546-1
3	68	AMPLIMITE® .050" (1.27mm) Series Plug; "P&Q" Cable SCSI-3	A15039-ND	49.21	44.06	869516-1
4	68	Plug Feed-Thru to 68 Position Receptacle	A15043-ND	87.40	70.67	869684-1

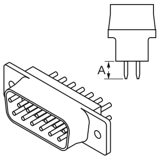
Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Differential						
1	50	CHAMP® Style Plug, Mate with .085" (2.16mm) Center-Line SCSI-1	A15033-ND	75.55	61.09	555867-1
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2	A15038-ND	57.58	46.55	869545-1
3	68	AMPLIMITE® .050" (1.27mm) Series Plug; "P&Q" Cable SCSI-3	A15040-ND	39.98	35.80	869515-1
4	68	Plug Feed-Thru to 68 Position Receptacle	A15044-ND	82.65	74.01	869682-1
5	68	Receptacle Feed-Thru to 50 Position Plug	A15046-ND	63.76	51.55	869678-1
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2	A23539-ND	57.72	46.67	749541-1
3	68	AMPLIMITE® .050" (1.27mm) Series Plug; "P&Q" Cable SCSI-2	A23542-ND	45.94	37.15	750897-1
Force Perfect						
3	68	.050" (1.27mm) Series Plug	A23541-ND	46.77	37.81	869867-1
Active Negation Compatible						
6	68	.050" (1.27mm) Center-Line Ribbon Cable SCSI-3	A24211-ND	44.11	35.67	869725-1

AMP tyco Electronics
Authorized Distributor

AMPLIMITE®

D-Sub Connectors

HD-20 All-Plastic Straight Posted

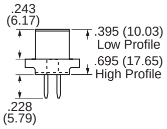


Material and Finish: Housing: 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Brass, nickel plated **Pin Contacts:** Brass plated, tin-lead on termination end, with entire contact 50µ (min.) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Standard Mounting Holes						
9	Male	.125 (3.18)	A23218-ND*	3.93	3.28	208006-2
9	Female	.125 (3.18)	A23238-ND*	4.08	3.40	207826-4
9	Male	.125 (3.18)	A23217-ND‡	3.63	3.03	208006-1
9	Female	.125 (3.18)	A23237-ND‡	3.81	3.18	207826-3
15	Male	.125 (3.18)	A23220-ND*	4.77	3.98	208007-2
15	Female	.125 (3.18)	A23240-ND*	5.01	4.18	207827-4
15	Female	.125 (3.18)	A23239-ND‡	4.47	3.73	207827-3
25	Male	.125 (3.18)	A23222-ND*	6.27	5.23	208008-2
25	Female	.125 (3.18)	A23243-ND*	6.60	5.50	207828-4
25	Male	.125 (3.18)	A23221-ND‡	5.46	4.55	208008-1
25	Female	.125 (3.18)	A23242-ND‡	5.85	4.88	207828-3
37	Female	.125 (3.18)	A23245-ND*	9.87	8.23	207829-4
37	Male	.125 (3.18)	A23223-ND‡	7.77	6.48	208009-1
50	Male	.125 (3.18)	A23225-ND*	11.67	9.73	208010-2
With Threaded Inserts						
9	Female	.125 (3.18)	A23248-ND*	5.58	4.65	207841-4
9	Female	.125 (3.18)	A23247-ND‡	5.28	4.40	207841-3
15	Male	.125 (3.18)	A23227-ND*	6.30	5.25	745052-2
15	Female	.125 (3.18)	A23250-ND*	6.63	5.53	745057-4
15	Female	.125 (3.18)	A23249-ND‡	6.03	5.03	745057-3
25	Male	.125 (3.18)	A23228-ND*	7.86	6.55	745053-2
25	Female	.125 (3.18)	A23252-ND*	8.25	6.88	745058-4
25	Female	.125 (3.18)	A23251-ND‡	7.44	6.20	745058-3
With Fixed Female Screwlocks						
9	Male	.125 (3.18)	A23230-ND*	6.09	5.08	745071-2
9	Female	.125 (3.18)	A23255-ND*	5.58	4.65	745076-4
9	Male	.125 (3.18)	A23229-ND‡	5.79	4.83	745071-1
9	Female	.125 (3.18)	A23254-ND‡	4.86	4.05	745076-3
9	Male	.170 (4.32)	A23231-ND*	6.09	5.08	745071-4
9	Female	.170 (4.32)	A23256-ND*	6.24	5.20	745076-6
15	Female	.125 (3.18)	A23258-ND*	7.17	5.98	745077-4
15	Female	.125 (3.18)	A23257-ND‡	6.69	5.58	745077-3
15	Male	.170 (4.32)	A23232-ND*	6.90	5.75	745072-4
25	Male	.125 (3.18)	A23234-ND*	8.49	7.08	745073-2
25	Female	.125 (3.18)	A23261-ND*	8.52	7.10	745078-4
25	Male	.125 (3.18)	A23233-ND‡	7.71	6.43	745073-1
25	Female	.125 (3.18)	A23260-ND‡	7.14	5.95	745078-3
25	Female	.170 (4.32)	A23264-ND*	8.88	7.40	745078-6
25	Female	.170 (4.32)	A23263-ND‡	8.07	6.73	745078-5
37	Female	.125 (3.18)	A23265-ND*	11.91	9.93	745079-4
37	Male	.170 (4.32)	A23236-ND*	14.64	12.20	745074-4
37	Female	.170 (4.32)	A23266-ND*	11.91	9.93	745079-6

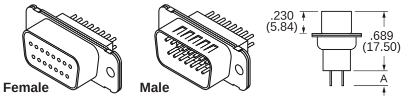
⁎ 30µ gold on mating end
‡ Gold flash on mating end

HD-20 All-Plastic Straight Posted with ACTION PIN



No. of Pos.	Sex	Profile	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Fixed Female Screwlocks						
9	Female	Low	A23136-ND	7.02	5.85	745454-2
25	Female	Low	A23137-ND	11.04	9.20	745458-2
37	Female	Low	A23138-ND	14.16	11.80	745459-2

HD-20 Full Metal-Shell Straight Posted

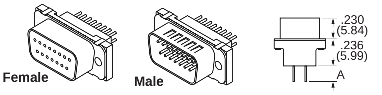


Material and Finish: Shell: Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Pin Contacts:** Brass plated, tin-lead on termination end, with entire contact 50µ (min.) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Without Grounding Indents						
9	Male	.125 (3.18)	A23139-ND‡	4.17	3.48	745182-2
25	Male	.125 (3.18)	A23140-ND‡	6.84	5.70	745186-2
With Grounding Indents						
9	Male	.125 (3.18)	A23141-ND*	4.95	4.13	745410-1
9	Male	.188 (4.78)	A23142-ND*	5.01	4.18	745410-7
25	Male	.125 (3.18)	A23143-ND*	5.31	4.43	745412-1
25	Male	.188 (4.78)	A23144-ND*	8.04	6.70	745412-7
37	Male	.125 (3.18)	A23145-ND*	11.73	9.78	745413-1
50	Male	.125 (3.18)	A23146-ND*	15.93	13.28	745414-1
50	Male	.188 (4.78)	A23147-ND*	14.88	12.40	745414-7
With .120" (3.05mm) Mounting Holes						
9	Female	.125 (3.18)	A23149-ND‡	4.80	4.00	745183-2
9	Female	.188 (4.78)	A23150-ND*	5.04	4.20	745183-7
15	Female	.188 (4.78)	A23148-ND*	6.33	5.28	745185-7
25	Female	.125 (3.18)	A23151-ND*	8.37	6.98	745187-1
25	Female	.188 (4.78)	A23152-ND*	8.40	7.00	745187-7
25	Female	.188 (4.78)	A23153-ND‡	7.71	6.43	745187-8
37	Female	.125 (3.18)	A23154-ND*	12.30	10.25	745189-1
37	Female	.188 (4.78)	A23155-ND*	12.27	10.23	745189-7
50	Female	.125 (3.18)	A23156-ND*	15.63	13.03	745191-1
50	Female	.188 (4.78)	A23157-ND*	15.66	13.05	745191-7
With Clinch Nuts						
9	Female	.125 (3.18)	A23164-ND*	6.90	5.75	747190-2
9	Female	.125 (3.18)	A23163-ND‡	6.84	5.70	747190-1
9	Female	.188 (4.78)	A23165-ND*	7.08	5.90	747190-4
15	Female	.125 (3.18)	A23158-ND*	8.34	6.95	745820-1
15	Female	.125 (3.18)	A23159-ND‡	7.95	6.63	745820-2
25	Female	.125 (3.18)	A23161-ND*	9.63	8.03	745886-1
25	Female	.125 (3.18)	A23162-ND‡	9.72	8.10	745886-2
37	Female	.125 (3.18)	A23167-ND*	13.59	11.33	747315-1
50	Female	.125 (3.18)	A23166-ND*	17.82	14.85	747302-1

⁎ 30µ gold on mating end
‡ Gold flash on mating end

HD-20 Front Metal-Shell Straight Posted



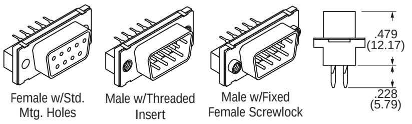
Material and Finish: Shell: Steel, tin plated **Housing:** 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Zinc **Pin Contacts:** Brass plated, tin-lead on termination end, with entire contact 50µ (min.) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Standard Mounting Holes						
9	Male	.125 (3.18)	A23183-ND*	3.66	3.05	747871-2
9	Female	.125 (3.18)	A23206-ND*	3.78	3.15	747150-2
9	Female	.170 (4.32)	A23207-ND*	8.91	7.43	747150-4
15	Female	.125 (3.18)	A23211-ND*	4.50	3.75	747299-2
15	Male	.170 (4.32)	A23185-ND*	4.41	3.68	747872-4
25	Male	.125 (3.18)	A23177-ND*	5.67	4.73	745968-2
25	Female	.125 (3.18)	A23203-ND*	6.18	5.15	745967-2
25	Male	.170 (4.32)	A23178-ND*	5.67	4.73	745968-4
37	Male	.125 (3.18)	A23181-ND*	8.85	7.38	747375-2
37	Female	.125 (3.18)	A23214-ND*	10.86	9.05	747301-2
With 4-40 Threaded Inserts						
9	Male	.125 (3.18)	A23184-ND*	4.98	4.15	747871-8
9	Female	.125 (3.18)	A23209-ND*	4.68	3.90	747150-8
9	Female	.125 (3.18)	A23208-ND‡	5.16	4.30	747150-7
9	Female	.170 (4.32)	A23210-ND‡	4.77	3.98	747150-9
15	Male	.125 (3.18)	A23186-ND*	5.64	4.70	747872-8
15	Female	.125 (3.18)	A23213-ND*	5.85	4.88	747299-8
15	Female	.125 (3.18)	A23212-ND‡	5.46	4.55	747299-7
15	Female	.170 (4.32)	A23195-ND*	5.88	4.90	1-747299-0
25	Male	.125 (3.18)	A23180-ND*	6.93	5.78	745968-8
25	Female	.125 (3.18)	A23205-ND*	7.26	6.05	745967-8
25	Male	.125 (3.18)	A23179-ND‡	6.21	5.18	745968-7
25	Female	.125 (3.18)	A23204-ND‡	6.03	5.03	745967-7
25	Female	.170 (4.32)	A23188-ND*	6.84	5.70	1-745967-0
37	Male	.125 (3.18)	A23182-ND*	12.00	10.00	747375-8
37	Female	.125 (3.18)	A23216-ND*	10.80	9.00	747301-8
37	Female	.125 (3.18)	A23215-ND‡	9.66	8.05	747301-7
With Retention 4-40 Inserts (for .062" [1.58mm] PCB)						
9	Male	.125 (3.18)	A23176-ND*	4.29	3.58	2-748003-0
9	Female	.125 (3.18)	A23199-ND*	4.68	3.90	2-747706-0
15	Female	.125 (3.18)	A23200-ND*	4.50	3.75	2-747707-0
25	Male	.125 (3.18)	A23175-ND*	5.85	4.88	2-747704-0
25	Female	.125 (3.18)	A23201-ND*	6.84	5.70	2-747708-0
37	Female	.125 (3.18)	A23202-ND*	10.80	9.00	2-747709-0
With Fixed Female Screwlocks						
9	Male	.125 (3.18)	A23172-ND*	5.46	4.55	1-747871-4
9	Female	.125 (3.18)	A23193-ND*	5.67	4.73	1-747150-4
9	Male	.125 (3.18)	A23171-ND‡	5.25	4.38	1-747871-3
9	Female	.125 (3.18)	A23192-ND‡	5.37	4.48	1-747150-3
9	Female	.170 (4.32)	A23194-ND*	5.46	4.55	1-747150-6
9	Male	.170 (4.32)	A23173-ND*	5.49	4.58	1-747871-6
15	Female	.125 (3.18)	A23196-ND*	5.85	4.88	1-747299-4
15	Male	.170 (4.32)	A23174-ND*	6.21	5.18	1-747872-6
15	Female	.170 (4.32)	A23197-ND*	6.27	5.23	1-747299-6
25	Male	.125 (3.18)	A23169-ND*	7.50	6.25	1-745968-4
25	Female	.125 (3.18)	A23189-ND*	5.85	4.88	1-745967-4
25	Male	.125 (3.18)	A23168-ND‡	6.78	5.65	1-745968-3
25	Male	.170 (4.32)	A23170-ND*	7.50	6.25	1-745968-6
25	Female	.170 (4.32)	A23191-ND*	7.02	5.85	1-745967-6
25	Female	.170 (4.32)	A23190-ND‡	7.17	5.98	1-745967-5
37	Female	.170 (4.32)	A23198-ND*	13.35	11.13	1-747301-6
With Retention 4-40 Screwlocks (for .062" [1.58mm] PCB)						
25	Male	.125 (3.18)	A23187-ND*	9.12	7.60	748027-1

⁎ 30µ gold on mating end
‡ Gold flash on mating end

HD-20 Front Metal-Shell Straight Posted with ACTION PIN

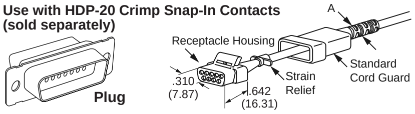
Material and Finish: Front Shell: Steel, tin plated **Housing:** 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Zinc **Action Pin Contacts:** Copper alloy duplex plated **Plating (except 749892-1):** 30µ gold on mating end, tin-lead on Action Pin post surface, with entire contact 50µ (min.) nickel underplated; **Plating for 749892-1 only:** Gold flash on mating end, tin-lead on Action Pin post surface, with entire contact 50µ (min.) nickel underplated



No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Standard Mounting Holes					
9	Female	A23116-ND	6.03	5.03	747089-2
15	Female	A23119-ND	8.67	7.23	747140-2
37	Female	A23125-ND	15.00	12.50	747713-2
50	Female	A23122-ND	23.34	19.45	747143-2
With Threaded Inserts					
9	Female	A23117-ND	5.31	4.43	747090-2
9	Male	A23132-ND	13.02	10.85	786830-1
15	Female	A23120-ND	7.98	6.65	747141-2
25	Female	A23114-ND	7.80	6.50	745925-2
25	Male	A23128-ND	26.88	22.40	748146-4
37	Female	A23126-ND	14.13	11.78	747714-2
37	Male	A23131-ND	34.68	28.90	786534-1
50	Female	A23123-ND	16.23	13.53	747144-2
50	Male	A23130-ND	24.00	20.00	749892-1
With Fixed Female Screwlocks					
9	Female	A23118-ND	7.77	6.48	747091-2
15	Female	A23121-ND	8.58	7.15	747142-2
15	Male	A23133-ND	13.50	11.25	787177-1
25	Female	A23115-ND	8.37	6.98	745928-2
25	Male	A23129-ND	12.36	10.30	748146-6
37	Female	A23127-ND	13.89	11.58	747715-2
50	Female	A23124-ND	17.52	14.60	747145-2

HDJ-20 All Plastic Jacketed Cable Connector

Use with HDP-20 Crimp Snap-In Contacts (sold separately)

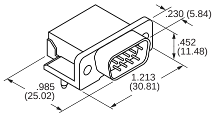


No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	Receptacle	A23471-ND*	.79	.66	207752-3
9	Plug	A23472-ND	2.58	2.15	745018-1
—	Steel Stain Relief	A23464-ND	.15	.13	61831-1

No. of Pos.	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	25	AMP Part No.
HDJ-20 Standard Cord Guards - Black Thermoplastic					
9	.234 (5.94)	A23465-ND	.86	.72	207753-1
HDJ-20 Squeeze-to-Release Cord Guards - Black Thermoplastic					
9	.200 (5.08)	A23466-ND	1.18	.99	745002-1
9	.265 (6.73)	A23467-ND	.87	.73	745002-2

* 94V-0 rated thermoplastic black

Plug Assemblies



HDJ-20 All-Plastic Plug Assemblies with Right-Angle Posted Contacts

Material and Finish: Housing and Post Spacer: Black thermoplastic, 94V-2 rated **Pin Contacts (Posted):** Brass, plated as follows: **A:** Gold flash on mating end, tin-lead on solder posts, entire contact nickel underplated

No. of Positions	Plating Type	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	A	A23474-ND	7.32	6.10	745001-3

AMP tyco Electronics
Authorized Distributor

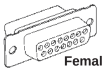
AMPLIMITE®

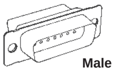
D-Sub Connectors

HDP-20 Zinc and Tin Plated Metal Shell

Crimp Type

Pins and Sockets Sold Separately





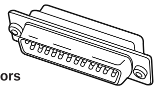
Material and Finish: Shell: Steel, zinc or tin plated **Insert:** 94V-0 rated thermoplastic, black **Mounting Holes: Standard:** .120" (3.05mm) Dia. **Clinch Nut:** 4-40 threads with self-locking feature

Mounting Method: 1: Standard; **2:** Clinch Nut; **3:** Floating Bushing

No. of Pos.	Sex	Mtg. Meth.	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Zinc Plated Shell						
9	Male	1	A1000-ND	1.01	.91	205204-1
9	Female	1	A1001-ND	1.18	1.06	205203-1
15	Male	1	A1002-ND	1.47	1.32	205206-1
15	Female	1	A1003-ND	1.31	1.18	205205-1
25	Male	1	A1004-ND	1.30	1.17	205208-1
25	Female	1	A1005-ND	1.13	1.02	205207-1
37	Male	1	A1006-ND	1.83	1.58	205210-1
37	Female	1	A1007-ND	1.83	1.58	205209-1
50	Male	1	A2037-ND	2.23	1.93	205212-1
50	Female	1	A2041-ND	2.23	1.93	205211-1
Tin Plated Shell Without Grounding Indents						
9	Male	1	A1030-ND	1.35	1.21	205204-3
9	Female	1	A1031-ND	.84	.76	205203-3
9	Female	2	A23416-ND	4.09	3.42	745907-1
15	Male	1	A1032-ND	1.57	1.35	205206-2
15	Female	1	A1033-ND	.93	.84	205205-2
15	Female	2	A23417-ND	3.93	3.28	745909-1
25	Male	1	A1034-ND	.99	.86	207464-1
25	Female	1	A1035-ND	1.05	.95	207463-1
25	Female	2	A23411-ND	3.90	3.25	207516-3
37	Male	1	A1036-ND	1.83	1.58	205210-2
37	Female	1	A1037-ND	1.26	1.14	205209-2
37	Female	2	A23412-ND	5.61	4.68	207661-3
50	Male	1	A2038-ND	4.99	4.30	205212-2
50	Female	1	A2042-ND	2.23	1.93	205211-2
Tin Plated Shell With Grounding Indents						
9	Male	1	A1038-ND	.88	.80	205204-4
9	Male	2	A23415-ND	3.82	3.19	745906-2
15	Male	1	A1039-ND	1.05	.95	205206-3
25	Male	1	A1040-ND	.93	.83	207464-2
25	Male	2	A23413-ND	5.10	4.25	745036-2
37	Male	2	A23414-ND	5.19	4.33	745135-2
37	Male	1	A1041-ND	1.77	1.59	205210-3
50	Male	1	A2039-ND	1.89	1.70	205212-3

Series 109 Connectors for Crimp, Snap-In Contacts

(Per MIL-C-24308 Qualified Connectors)



Class G steel shell has cadmium plating per ASTM-B633.

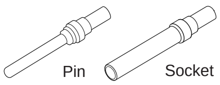
Pins and Sockets Sold Separately
Only use sockets for Series 109 Connectors

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Crimp Type					
9	Male	A2150-ND	3.77	3.25	205162-1
9	Female	A2155-ND	3.77	3.25	205161-1
15	Male	A2151-ND	4.35	3.75	205164-1
15	Female	A2156-ND	4.35	3.75	205163-1
25	Male	A2152-ND	4.64	4.00	205166-1
25	Female	A2157-ND	4.64	4.00	205165-1
37	Male	A2153-ND	6.09	5.25	205168-1
37	Female	A2158-ND	6.09	5.25	205167-1
50	Male	A2154-ND	7.54	6.50	205170-1
50	Female	A2159-ND	7.54	6.50	205169-1

Series 109 Screw-Machined Pins & Sockets

CRIMP TYPE

Pin Diameter: .040" (1.02mm)



MATERIAL: • **Pin Body** – Copper Alloy • **Socket Body** – Beryllium Copper • **Finish:** 50µ Gold • **Contact Size:** 20 DM • **Pin Diameter:** .040" (1.02mm) • **Test Current:** 7.5 amperes

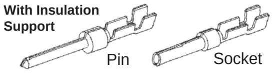
Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
50µ Gold				
Pin (24-20 AWG)	A2160-ND	.99	.61	205089-1
Socket (24-20 AWG)	A2161-ND	1.47	.91	205090-1

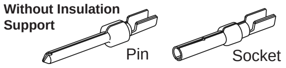
Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for Series 109 D-Sub Crimp Contacts	A9979-ND	14.63	91285-1
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	453.53	601966-1
Positioner (Use with A9977-ND)	A9797-ND	147.00	601966-5

HDP-20 Pins & Sockets

Crimp Type

Pin Dia.: .040" (1.02mm)





Material: Pin: Brass – Phosphor bronze per QQ-B-750

Plated: A: Select – Gold flash over nickel on entire contact, with additional 30µ gold on mating end; **B:** Duplex – 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **C:** Gold flash over nickel on entire contact; **D:** Duplex – Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

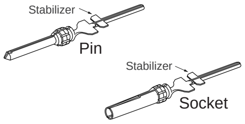
Desc.	AWG	Ins.Dia. In. (mm)	Cont. Fin.	Digi-Key Part No.	Price Each 10	100	AMP Part No.	Digi-Key Part No.	Strip Form Pricing 1,000	AMP Part No.
With Insulation Support										
Pin	28-24	.040 (1.02)	A	A1630-ND	.20	.14	66507-9	A23713-ND	53.89	66507-3
Socket	28-24	.040 (1.02)	A	A1632-ND	.23	.16	66505-9	A23718-ND	58.03	66505-3
Pin	28-24	.040 (1.02)	B	A23039-ND	.18	.13	5-66507-7	A23020-ND	39.71	3-66507-0
Socket	28-24	.040 (1.02)	B	—	—	—	6-66505-2	A23024-ND	51.98	6-66505-0
Pin	28-24	.040 (1.02)	C	A23004-ND	.18	.13	1-66507-0	A23714-ND	51.98	66507-4
Socket	28-24	.040 (1.02)	C	A23003-ND	.20	.14	1-66505-0	A23022-ND	72.54	66505-4
Pin	28-24	.040 (1.02)	D	—	—	—	—	A23021-ND	33.26	3-66507-1
Socket	28-24	.040 (1.02)	D	—	—	—	—	A23040-ND	51.98	5-66505-7
Pin	28-24	.060 (1.52)	A	A23027-ND	.21	.15	66682-4	A23026-ND	43.52	66682-2
Socket	28-24	.060 (1.52)	A	A23031-ND	.23	.16	66683-4	A23030-ND	82.21	66683-2
Pin	28-24	.060 (1.52)	B	—	—	—	—	A23029-ND	66.38	66682-9
Socket	28-24	.060 (1.52)	B	—	—	—	—	A23005-ND	96.64	1-66683-0
Pin	28-24	.060 (1.52)	D	—	—	—	—	A23028-ND	57.14	66682-6
Socket	28-24	.060 (1.52)	D	—	—	—	—	A23053-ND	69.55	66683-7
Pin	26-22	.050 (1.27)	A	A24209-ND	.21	.15	745254-6	A24210-ND	67.90	745254-2
Socket	26-22	.050 (1.27)	A	A23722-ND	.23	.16	745253-6	A23034-ND	96.50	745253-2
Pin	26-22	.050 (1.27)	B	A23015-ND	.19	.13	1-745254-6	A23014-ND	115.47	1-745254-4
Socket	26-22	.050 (1.27)	B	A23011-ND	.20	.14	1-745253-6	A23010-ND	90.42	1-745253-4
Pin	26-22	.050 (1.27)	C	A23038-ND	.19	.13	745254-7	A23037-ND	81.55	745254-3
Socket	26-22	.050 (1.27)	C	A23036-ND	.20	.14	745253-7	A23035-ND	98.66	745253-3
Pin	26-22	.050 (1.27)	D	A23013-ND	.17	.12	1-745254-3	A23012-ND	57.14	1-745254-1
Socket	26-22	.050 (1.27)	D	—	—	—	—	A23008-ND	83.74	1-745253-1
Pin	24-20	.060 (1.52)	A	A1679-ND	.18	.17	66506-9	A23715-ND	42.29	66506-3
Socket	24-20	.060 (1.52)	A	A1680-ND	.19	.17	66504-9	A23719-ND	58.03	66504-3
Pin	24-20	.060 (1.52)	B	A23042-ND	.18	.13	5-66506-7	A23716-ND	38.26	2-66506-4
Socket	24-20	.060 (1.52)	B	A23023-ND	.20	.14	6-66504-0	A23720-ND	43.66	5-66504-9
Pin	24-20	.060 (1.52)	C	A1008-ND	.18	.17	1-66506-0	A23717-ND	62.37	66506-4
Socket	24-20	.060 (1.52)	C	A1009-ND	.19	.17	1-66504-0	A23721-ND	40.19	66504-4
Pin	24-20	.060 (1.52)	D	A23043ND	.15	.11	5-66506-9	A23044-ND	35.34	2-66506-5
Socket	24-20	.060 (1.52)	D	—	—	—	—	A23606-ND	39.50	5-66504-6

Desc.	AWG	Ins.Dia. In. (mm)	Cont. Fin.	Digi-Key Part No.	Strip Form Pricing 10	100	AMP Part No.
Without Insulation Support							
Pin	28-24	.068 (1.73)	A	A23019-ND	1.65	11.50	205310-2
Socket	28-24	.068 (1.73)	A	A23055-ND	3.45	24.09	205311-3
Pin	24-20	.068 (1.73)	A	A23017-ND	1.65	11.51	205202-2
Socket	24-20	.068 (1.73)	A	A23016-ND	1.96	13.68	205201-3
Pin	24-20	.068 (1.73)	C	A23018-ND	1.57	11.00	205202-6
Socket	24-20	.068 (1.73)	C	A23054-ND	1.66	11.63	205201-6
Pin	22-18	.068 (1.73)	A	A23032-ND	1.65	11.51	745229-2
Socket	22-18	.068 (1.73)	A	A23033-ND	1.48	10.32	745230-2
Pin	22-18	.068 (1.73)	B	A23006-ND	1.27	8.84	1-745229-1
Socket	22-18	.068 (1.73)	B	A23007-ND	1.98	13.83	1-745230-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Crimp Tool for D-Sub Contacts w/Die	A9990-ND	145.50	58448-2
Die Set for D-Sub Contacts, use w/A9996	A9814-ND	111.00	58448-3
Pro-Crimper II Hand Tool w/o Die	A9996-ND	66.00	354940-1
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	6.00	91067-2

HDP-20 Solder Post Pins & Sockets

.025" (0.64mm) Square Posted, Snap-In, Precision Formed
Pin Dia.: .040" (1.02mm)



Material: Pin: Brass **Socket:** Phosphor bronze

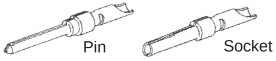
Plated: A: Duplex plated 30µ gold on mating end with entire contact 50µ min. nickel underplated; **B:** Duplex plated gold flash on mating end with entire contact 50µ min. nickel underplated

Desc.	Cont. Fin.	Post Length*	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Socket	A	.125" (3.18mm)	A23048-ND	.33	.24	745288-4
Pin	A	.427" (10.85mm)	A23058-ND	.32	.23	745287-8
Socket	A	.427" (10.85mm)	A23050-ND	.37	.26	745288-8
Socket	B	.427" (10.85mm)	A23049-ND	.33	.23	745288-6
Pin	A	.651" (16.54mm)	A23059-ND	.35	.25	1-745287-2
Socket	A	.651" (16.54mm)	A23046-ND	.40	.28	1-745288-2
Socket	B	.651" (16.54mm)	A23060-ND	.32	.23	1-745288-0

* Length of post extending from rear of HDP-20 metal-shell Connector.

HDP-20 Solder Cup Type Pins & Sockets

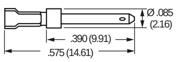
Pin Diameter: .040" (1.02mm)



Material: Pin – Brass per MIL-C-50; Socket – Phosphor bronze per QQ-B-750
Finish: Selective gold, 30µ gold over 30µ nickel

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Pin, 18 AWG	A1028-ND	.25	.15	66570-3
Socket, 18 AWG	A1029-ND	.29	.27	66569-3
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	6.00 Each		91067-2

HDP-20 Front Connector Pins



Precision Formed

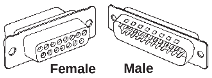
Material: Brass **Finish:** Duplex plated 10µ min. gold in the mating area, 30µ min. tin in the termination area, all over 30µ min. nickel underplating

AWG	Ins Dia. In. (mm)	Digi-Key Part No.	Pricing 10	100	AMP Part No.
28-24	.040 (1.02)	A23052-ND	.87	6.06	6-66507-2
24-20	.060 (1.52)	A23051-ND	.57	3.96	6-66506-2

HD-20 Solder Cup

Connector comes complete with pins & sockets.

Accepts 20 AWG or smaller solid or stranded wire.



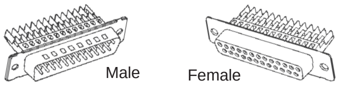
Material and Finish: Shell: Steel, tin or zinc plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze; duplex plated with gold flash on mating end, tin-lead on solder cup, with entire contact nickel underplated

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Tin Plated Shell					
9	Male	A2043-ND	1.83	1.64	747904-2
9	Female	A2047-ND	2.47	2.21	747905-2
15	Male	A2044-ND	2.97	2.66	747908-2
15	Female	A2048-ND	3.65	3.15	747909-2
25	Male	A2045-ND	3.47	3.11	747912-2
25	Female	A2049-ND	4.34	3.89	747913-2
37	Male	A2046-ND	5.68	4.90	747916-2
37	Female	A2050-ND	6.99	6.03	747917-2
Zinc Plated Shell					
9	Male	A23108-ND	2.01	1.68	747904-4
9	Female	A23109-ND	2.79	2.33	747905-4
15	Male	A23110-ND	2.79	2.33	747908-4
25	Male	A23111-ND	3.93	3.28	747912-4
25	Female	A23112-ND	5.04	4.20	747913-4
37	Male	A23113-ND	5.76	4.80	747916-4

AMPLIMITE®

D-Sub Connectors

HDE-20 IDC Discrete Wire Type, Metal/Plastic Shell



Material and Finish: **Metal Shell:** Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze

Plastic Housing: 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze

Contact Finish: Duplex plated; **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated; **C:** 50µ gold on mating end

No. of Pos.	Sex	Cont. Fin.	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Metal Shell for 30-26 AWG Wire						
9	Male	A	A23081-ND	2.85	2.38	745492-1
9	Female	A	A23095-ND	3.60	3.00	745491-1
15	Male	A	A23085-ND	4.92	4.10	745494-1
15	Female	A	A23099-ND	8.19	6.83	745493-1
25	Male	A	A23088-ND	4.95	4.13	745496-1
25	Female	A	A23101-ND	6.63	5.53	745495-1
37	Male	A	A23093-ND	9.18	7.65	745498-1
37	Female	A	A23105-ND	8.25	6.88	745497-1
Metal Shell for 26-22 AWG Wire						
9	Male	A	A1042-ND	3.16	2.84	745492-2
9	Female	A	A1043-ND	3.13	2.80	745491-2
9	Male	B	A23083-ND	2.61	2.18	745492-5
9	Female	B	A23097-ND	3.39	2.83	745491-5
9	Male	C	A23079-ND	4.29	3.58	1-745492-3
15	Male	A	A1044-ND	4.32	3.86	745494-2
15	Female	A	A1045-ND	4.32	3.86	745493-2
15	Male	B	A23086-ND	3.99	3.33	745494-5
15	Female	B	A23100-ND	4.38	3.65	745493-5
25	Male	A	A1046-ND	4.42	3.98	745496-2
25	Female	A	A1047-ND	6.86	6.14	745495-2
25	Male	B	A23091-ND	4.68	3.90	745496-5
25	Female	B	A23103-ND*	6.33	5.28	745495-5
25	Female	C	A23080-ND	8.40	7.00	1-745495-4
37	Male	A	A1048-ND	6.89	6.17	745498-2
37	Female	A	A1049-ND	7.51	6.48	745497-2
Metal Shell for 22-20 AWG Wire						
9	Male	A	A23082-ND	3.54	2.95	745492-3
9	Female	A	A23096-ND	3.93	3.28	745491-3
25	Male	A	A23089-ND	5.97	4.98	745496-3
25	Female	A	A23102-ND	5.64	4.70	745495-3
Plastic Shell for 30-26 AWG Wire						
25	Male	A	A23076-ND	5.01	4.18	745211-1
Plastic Shell for 26-22 AWG Wire						
9	Male	A	A2000-ND	2.92	2.62	745203-2
9	Female	A	A2001-ND	2.96	2.55	745201-2
15	Male	A	A2002-ND	5.80	5.00	745207-2
15	Female	A	A2003-ND	3.89	3.35	745205-2
25	Male	A	A2004-ND	4.84	4.18	745211-2
25	Female	A	A2005-ND	5.48	4.73	745209-2
37	Male	A	A2006-ND	6.67	5.75	745215-2

* 20µ gold on mating end

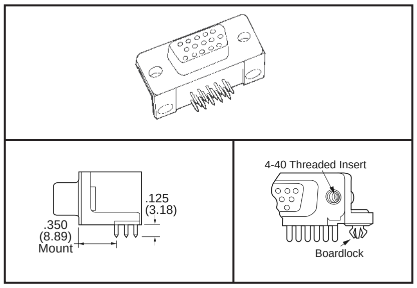
Description	Digi-Key Part No.	Price Each	AMP Part No.
T-Handle Tool for IDC D-Subs	A9980-ND	5.10	91287-1
Manual Pistol Grip Tool for Metal & All-Plastic Shell Connectors	A2031-ND	55.50	58074-1
Head Assembly Tool for D-Sub IDC Connectors	A2032-ND	175.56	58063-2
Contact Extraction Tool for Metal and All-Plastic Shell Connectors	A2033-ND	10.58	91232-1

High Density D-Sub Connectors

HD-22 Right Angle

ELECTRICAL CHARACTERISTICS: • **Single Contact Current Rating:** 2.0 amperes • **Dielectric Withstanding Voltage:** 1000 VAC min.

MATERIAL AND FINISH: • **Front Shell:** Steel, tin plated • **Housing:** 94 V-0 rated • **Socket Contacts:** Phosphor bronze • **Contact Finish:** Duplex Plated: 30µ gold mating end, tin-lead on termination end, with entire contact nickel underplated

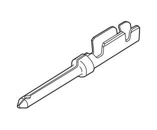


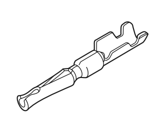
No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Threaded Inserts With Boardlocks					
26	Female	A2092-ND	3.65	3.15	748481-5
44	Female	A2093-ND	4.58	3.95	748482-5
62	Female	A2094-ND	18.44	15.90	748394-5
78	Female	A23067-ND	18.63	15.53	748483-5
15	Male	A23070-ND	3.57	2.98	749767-1
62	Male	A23069-ND	13.92	11.60	749639-1
Screwlocks With Boardlocks					
26	Female	A23066-ND	10.53	8.78	748481-6
62	Female	A23065-ND	19.38	16.15	748394-6
Threaded Inserts Without Boardlocks					
26	Female	A23063-ND*	10.56	8.80	1-748481-9

* .125" (3.18mm) diameter holes

HDP-22 Pins & Sockets

CRIMP TYPE **Pin Diameter: .030" (.76mm)**


Pin


Socket

Material: **Pin –** Brass **Socket –** Phosphor bronze **Finish:** **30µ Gold –** Duplex plated 30µ gold on mating end, tin-lead on crimp barrel, with entire contact nickel underplated **Gold Flash –** Duplex plated gold flash on mating end, tin-lead on crimp barrel, with entire contact nickel underplated

Description	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Pin (22-28 AWG), 30µ Gold	A2088-ND	.15	.09	748333-4
Socket (22-28 AWG), 30µ Gold	A2089-ND	.17	.11	748610-4
Pin (22-28 AWG), Gold Flash	A2086-ND	.13	.08	748333-7
Socket (22-28 AWG), Gold Flash	A2090-ND	.19	.12	748610-7
Socket (22-28 AWG), Gold Flash	A23000-ND*	.15	.11	748610-5

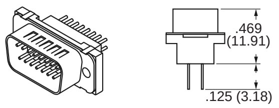
Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for High Density D-Sub Crimp Contacts	A9979-ND	14.63	91285-1
Crimp Tool for High Density D-Sub w/Die	A9815-ND	174.75	90800-1
Die Set for High Density D-Sub Crimp Contact, use w/A9996	A9816-ND	131.25	90800-2
Pro-Crimper II Hand Tool w/o Die Crimp Tool for High Density	A9996-ND	66.00	354940-1

* Strip Form only.

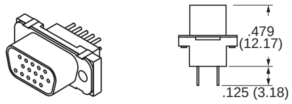
HD-22 Front Metal-Shell Straight Posted

• **Shell:** steel, tin plated • **Housing:** 94V-O rated thermoplastic, black • **Pin Contacts (Posted) Brass:** .30µ gold on mating end, tin-lead, with entire contact 50µ min. nickel underplated

Male



Female

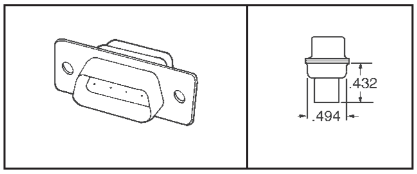


No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
4-40 Threaded Inserts					
15	Male	A23071-ND	8.10	6.75	749798-1
26	Female	A23073-ND	16.71	13.93	749030-1
62	Female	A23072-ND	24.72	20.60	747786-6

High Density D-Sub Connectors

HDP-22 Crimp Type Tin Plated Shell

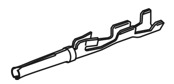
ELECTRICAL CHAR.: • **Contact Rating:** 5.0 amperes • **Dielectric Strength:** 1000 VAC min. • **Insulation Resist.:** 5000 megohms min. **MECHANICAL CHAR.:** • **Contact Insertion Force:** 3 lb. max. • **Durability:** 30µ gold – 500 cycles; Gold Flash - 100 cycles



No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
15	Male	A2076-ND	2.53	2.27	748364-1
15	Female	A2081-ND	2.74	2.46	748565-1
26	Male	A2077-ND	5.07	4.54	748365-1
26	Female	A2082-ND	5.69	5.10	748566-1
44	Male	A2078-ND	5.66	5.07	748366-1
44	Female	A2083-ND	6.41	5.53	748567-1
62	Male	A2079-ND	5.49	4.92	748367-1
62	Female	A2084-ND	7.51	6.48	748568-1
78	Male	A2080-ND	6.34	5.68	748368-1
78	Female	A2085-ND	7.83	6.75	748569-1

HDE-20 Socket

Interchangeable Contacts,
Crimp Snap-In Precision Formed

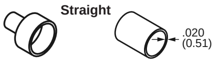

Socket

Material: Phosphor bronze **Finish:** Duplex plated 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated **Wire Size:** 22-18 AWG **Insulation Diameter:** Single Wire: .075" (1.91mm), Two Wire: .054" (1.37mm)

Desc.	Digi-Key Part No.	Strip Form Pricing 10	Strip Form Pricing 100	Strip Form Pricing 1,000	AMP Part No.
Socket	A23002-ND	1.55	10.80	76.11	745270-2

AMPLIMITE®

Die Sets and Ferrules for Shielding Hardware Kits



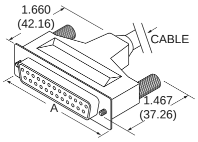
Material and Finish:
Steel (annealed), tin plated

Cable Diameter Inch (mm)	Dimension - Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Stepped Ferrules					
.165 - .246 (4.19 - 6.25)	.440 (11.18)	A23558-ND	.32	.27	747579-8
.230 - .265 (5.84 - 6.73)	.625 (15.88)	A23557-ND	1.32	1.10	1-747580-0
.246 - .324 (6.25 - 8.23)	.440 (11.18)	A23553-ND	.24	.20	1-747579-0
.324 - .375 (8.23 - 9.53)	.440 (11.18)	A23554-ND	.26	.22	1-747579-1
.375 - .432 (9.53 - 10.97)	.625 (15.88)	A23559-ND	.48	.40	747580-4
.422 - .490 (10.72 - 12.45)	.625 (15.88)	A23560-ND	.48	.40	747580-5
Straight Ferrules					
.375 - .435 (9.53 - 11.05)	.440 (11.18)	A23555-ND	.33	.28	1-747579-2
.400 - .455 (10.16 - 11.56)	.440 (11.18)	A23556-ND	.42	.35	1-747579-4
.480 - .562 (12.19 - 14.28)	.625 (15.88)	A23561-ND	.48	.40	747580-6

Cable Diameter Inch (mm)	Dimension - Length Inch (mm)	Digi-Key Part No.	Price Each	AMP Part No.
Crimp Tooling Stepped Ferrule Die Sets				
.165 - .190 (4.19 - 4.83)	.440 (11.18)	A23577-ND	455.85	543424-3
.190 - .217 (4.83 - 5.51)	.440 (11.18)	A23578-ND	455.85	543424-2
.217 - .246 (5.51 - 6.25)	.440 (11.18)	A23579-ND	455.85	543424-8
.246 - .284 (6.25 - 7.21)	.440 (11.18)	A23580-ND	455.85	543424-1
.284 - .324 (7.21 - 8.23)	.440 (11.18)	A23581-ND	455.85	543424-7
.324 - .375 (8.23 - 9.53)	.440 (11.18)	A23582-ND	455.85	543424-6
Crimp Tooling Straight Ferrule Die Sets				
.375 - .435 (9.53 - 11.05)	.440 (11.18)	A23583-ND	455.85	543424-5
.400 - .455 (10.16 - 11.56)	.440 (11.18)	A23584-ND	455.85	543424-4
Hand Crimping Tool (for above die sets)		A23576-ND	672.00	543344-1

Shielding Hardware Kits

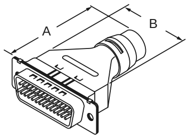
HD-20 Shielding Hardware Enclosure Kits - Solder Cup:



Kit Contents (unassembled): Connector with preloaded, nonremovable contacts, inner shield, outer shield, enclosure, and two jackscrews **(ferrules must be purchased separately). Material and FInish:** • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy • Contacts: Phosphor bronze.

No. of Pos.	Cable Insulation Dia. Inch (mm)	Max. Cable Dia. Inch (mm) †	Sex	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.190 - .375 (4.83 - 9.53)	.350 (8.89)	Male	1.350 (34.29)	A23513-ND	8.85	7.38	748046-1
15	.190 - .375 (4.83 - 9.53)	.350 (8.89)	Male	1.680 (42.67)	A23514-ND	9.84	8.20	748048-1
15	.190 - .375 (4.83 - 9.53)	.350 (8.89)	Female	1.680 (42.67)	A23515-ND	10.71	8.93	748049-1
25	.217 - .435 (5.51 - 11.05)	.350 (8.89)	Male	2.205 (56.01)	A23516-ND	11.16	9.30	748050-1
25	.217 - .435 (5.51 - 11.05)	.350 (8.89)	Female	2.205 (56.01)	A23517-ND	12.21	10.18	748051-1

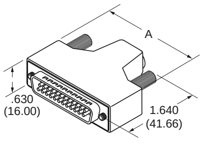
HDE-20 Basic Shielding Hardware Kits:



Kit Contents (unassembled): Connector, inner shield, outer shield **(ferrules must be purchased separately). Material and FInish:** • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Contacts: Phosphor bronze • Contact Finish-Duplex Plated: **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated. **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated.

No. of Pos.	Max. Cable Diameter Inch (mm) †	Sex	Contact Finish	AWG	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.350 (8.89)	Male	A	26-22	1.520 (38.61)	.678 (17.22)	A23518-ND	5.10	4.25	747515-2
9	.350 (8.89)	Female	A	26-22	1.520 (38.61)	.678 (17.22)	A23522-ND	5.40	4.50	747516-2
15	.350 (8.89)	Male	A	26-22	1.520 (38.61)	1.002 (25.45)	A23519-ND	6.18	5.15	747531-2
25	.350 (8.89)	Male	A	26-22	1.520 (38.61)	1.550 (39.37)	A23520-ND	7.98	6.65	747547-2
25	.350 (8.89)	Female	A	26-22	1.520 (38.61)	1.550 (39.37)	A23523-ND	8.61	7.18	747548-2
25	.350 (8.89)	Male	B	26-22	1.520 (38.61)	1.550 (39.37)	A23521-ND	7.53	6.28	747547-5
25	.350 (8.89)	Female	B	26-22	1.520 (38.61)	1.550 (39.37)	A23524-ND	7.08	5.90	747548-5
37	.450 (11.43)	Female	B	26-22	1.867 (47.42)	2.205 (56.01)	A23525-ND	11.22	9.35	747564-5

HDE-20 Basic Shielding Hardware Kits:

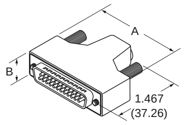


Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(ferrules must be purchased separately). Material and FInish:** • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy • Contacts: Phosphor bronze • Contact Finish - Duplex Plated: **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated.

No. of Pos.	Max. Cable Dia. Inch (mm) †	Sex	Contact Finish	AWG	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.350 (8.89)	Male	A	26-22	1.355 (34.42)	A23526-ND	9.18	7.65	747944-2
9	.350 (8.89)	Male	B	26-22	1.355 (34.42)	A23527-ND	9.06	7.55	747944-5
9	.350 (8.89)	Female	A	30-26	1.355 (34.42)	A23533-ND	9.39	7.83	747943-1
9	.350 (8.89)	Female	A	26-22	1.355 (34.42)	A23534-ND	9.39	7.83	747943-2
15	.350 (8.89)	Male	B	26-22	1.685 (42.80)	A23529-ND	10.29	8.58	747946-5
15	.350 (8.89)	Female	A	30-26	1.685 (42.80)	A23535-ND	10.47	8.73	747945-1
25	.350 (8.89)	Male	A	30-26	2.210 (56.13)	A23530-ND	5.73	4.78	747948-1
25	.350 (8.89)	Male	A	26-22	2.210 (56.13)	A23531-ND	11.91	9.93	747948-2
25	.350 (8.89)	Male	B	26-22	2.210 (56.13)	A23532-ND	10.08	8.40	747948-5
25	.350 (8.89)	Female	A	26-22	2.210 (56.13)	A23536-ND	12.45	10.38	747947-2
25	.350 (8.89)	Female	B	26-22	2.210 (56.13)	A23537-ND	12.00	10.00	747947-5

† Maximum cable diameter after jacket and braid removed.

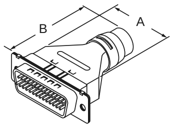
HDP-20 Shielding Hardware Enclosure Kits:



Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(contacts and ferrules must be purchased separately). Material and FInish:** • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy.

No. of Pos.	Max. Cable Dia. Inch (mm) †	Sex	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.350 (8.89)	Male	1.355 (34.42)	.630 (16.00)	A23488-ND	6.21	5.18	747952-1
9	.350 (8.89)	Female	1.355 (34.42)	.630 (16.00)	A23487-ND	6.81	5.68	747951-1
15	.350 (8.89)	Male	1.685 (42.80)	.630 (16.00)	A23490-ND	6.21	5.18	747954-1
15	.350 (8.89)	Female	1.685 (42.80)	.630 (16.00)	A23489-ND	6.69	5.58	747953-1
25	.350 (8.89)	Male	2.210 (56.13)	.630 (16.00)	A23492-ND	7.77	6.48	747956-1
25	.350 (8.89)	Female	2.210 (56.13)	.630 (16.00)	A23491-ND	8.37	6.98	747955-1
37	.450 (11.43)	Male	2.865 (72.77)	.730 (18.54)	A23494-ND	9.75	8.13	747958-1
37	.450 (11.43)	Female	2.865 (72.77)	.730 (18.54)	A23493-ND	9.84	8.20	747957-1
50	.450 (11.43)	Male	2.775 (70.49)	.730 (18.54)	A23496-ND	11.16	9.30	747960-1
50	.450 (11.43)	Female	2.775 (70.49)	.730 (18.54)	A23495-ND	15.54	12.95	747959-1

HDP-20 Basic Shielding Hardware Kits:



Kit Contents (unassembled): Connector, inner shield, outer shield **(contacts and ferrules must be purchased separately). Material and FInish:** • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated.

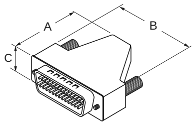
No. of Pos.	Max. Cable Diameter Inch (mm) †	Sex	Mounting Method	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.350 (8.89)	Male	Standard	.700 (17.78)	1.535 (38.99)	A23475-ND	1.75	1.46	747522-1
9	.350 (8.89)	Female	Standard	.700 (17.78)	1.535 (38.99)	A23476-ND	1.55	1.30	747523-1
9	.350 (8.89)	Male	Clinch Nut	.700 (17.78)	1.535 (38.99)	A23485-ND	6.90	5.75	748526-1
15	.350 (8.89)	Male	Standard	1.024 (26.01)	1.535 (38.99)	A23477-ND	1.87	1.56	747538-1
15	.350 (8.89)	Female	Standard	1.024 (26.01)	1.535 (38.99)	A23478-ND	1.95	1.63	747539-1
25	.350 (8.89)	Male	Standard	1.576 (40.03)	1.535 (38.99)	A23479-ND	1.94	1.62	747554-1
25	.350 (8.89)	Female	Standard	1.576 (40.03)	1.535 (38.99)	A23480-ND	1.94	1.62	747555-1
25	.350 (8.89)	Female	Clinch Nut	1.576 (40.03)	1.535 (38.99)	A23486-ND	7.20	6.00	749763-1
37	.450 (11.43)	Male	Standard	2.215 (56.26)	1.892 (48.03)	A23481-ND	3.12	2.60	747570-1
37	.450 (11.43)	Female	Standard	2.215 (56.26)	1.892 (48.03)	A23482-ND	4.65	3.88	747571-1
50	.450 (11.43)	Male	Standard	2.120 (53.85)	1.876 (47.65)	A23483-ND	5.34	4.45	747577-1
50	.450 (11.43)	Female	Standard	2.120 (53.85)	1.876 (47.65)	A23484-ND	6.21	5.18	747578-1

HDP-20 Basic Shielding Hardware Kit:

Preassembled connector kits are available in Subminiature D, shell size 2, 15-position configuration and accept crimp, snap-in HD-20 contacts. Contacts are available separately and allow for selective positioning.

No. of Pos.	Max. Cable Diameter Inch (mm) †	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.0350 (8.89)	Female	A23497-ND	10.65	8.88	749246-1

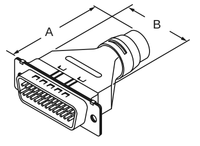
HDP-22 Shielding Hardware Enclosure Kits - Crimp Snap-In Contact Connectors:



Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(contacts and ferrules must be purchased separately). Material and FInish:** • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy.
Plugs accept size 22 DF pin contacts and receptacles accept size 22 DF socket contacts.

No. of Pos.	Max. Cable Diameter Inch (mm) †	Sex	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.350 (8.89)	Male	1.640 (41.66)	1.355 (34.42)	.630 (16.00)	A23506-ND	10.08	8.40	748473-1
15	.350 (8.89)	Female	1.640 (41.66)	1.355 (34.42)	.630 (16.00)	A23510-ND	10.89	9.08	748639-1
26	.350 (8.89)	Male	1.640 (41.66)	1.685 (42.80)	.630 (16.00)	A23507-ND	10.92	9.10	748474-1
26	.350 (8.89)	Female	1.640 (41.66)	1.685 (42.80)	.630 (16.00)	A23511-ND	11.79	9.83	748640-1
62	.450 (11.43)	Male	2.010 (51.05)	2.860 (72.64)	.730 (18.54)	A23508-ND	14.22	11.85	748476-1
62	.450 (11.43)	Female	2.010 (51.05)	2.860 (72.64)	.730 (72.64)	A23512-ND	15.27	12.73	748642-1
78	.450 (11.43)	Male	2.010 (51.05)	2.770 (70.36)	.730 (18.54)	A23509-ND	15.48	12.90	748477-1

HDP-22 Basic Shielding Hardware Kits - Crimp Snap-In Contact Connectors:

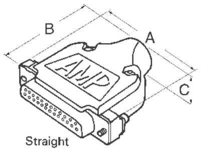


Kit Contents (unassembled): Connector, inner shield, outer shield **(contacts and ferrules must be purchased separately). Material and FInish:** • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated.
Plugs accept size 22 DF pin contacts and receptacles accept size 22 DF socket contacts.

No. of Pos.	Max. Cable Dia. Inch (mm) †	Sex	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.350 (8.89)	Male	1.535 (38.99)	.700 (17.78)	A23498-ND	1.87	1.56	748468-1
15	.350 (8.89)	Female	1.535 (38.99)	.700 (17.78)	A23503-ND	2.61	2.18	748634-1
26	.350 (8.89)	Male	1.535 (38.99)	1.024 (26.01)	A23499-ND	7.35	6.13	748469-1
26	.350 (8.89)	Female	1.535 (38.99)	1.024 (26.01)	A23504-ND	8.31	6.93	748635-1
44	.350 (8.89)	Male	1.535 (38.99)	1.576 (40.03)	A23500-ND	8.37	6.98	748470-1
62	.450 (11.43)	Male	1.892 (48.06)	2.215 (56.26)	A23501-ND	10.08	8.40	748471-1
78	.450 (11.43)	Male	1.876 (47.65)	2.120 (53.85)	A23502-ND	10.50	8.75	748472-1

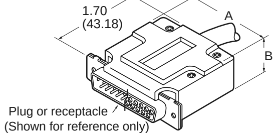
† Maximum cable diameter after jacket and braid removed.

Fig. 1



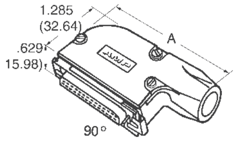
Die Cast Shield: Zinc alloy, plated nickel over copper. **Metal-Plated Plastic Shield:** Thermoplastic, plated nickel over copper. **Plastic Shield:** Thermoplastic, black.

Fig. 2



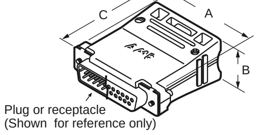
Cable Clamp Housing: Thermoplastic, black with textured finish. **Gates:** Thermoplastic, black. **Flat Head Screws:** Steel, black, zinc plated.

Fig. 3



ETHERNET Slide-locking hood. 90° exit RFI/EMI die cast shields. **Shield:** Zinc alloy, plated nickel over copper.

Fig. 4



Cable Clamp Housing: Thermoplastic **4-40 Mounting Screws:** Steel, zinc plated. **Flat 4-40 Housing Screws:** Steel, zinc plated.

Fig. 5

Plastic Shield: Each kit contains: 1-Hinged Plastic Clamp, 2-Retention Screws, 2-Retention Clips, 1-Cable Gate Plug, 1-Strain Relief Clip, 2-Self Tapping Screws, 1-Connector and Contacts. **Material and Finish: Cover:** Polypropylene, black. **Retention/Self-Tapping Screws:** Steel, zinc plated. **Retention Clips/Strain Relief Clip:** Stainless steel. **Cable Gate Plug:** Polypropylene.

Plastic Shield w/ Connector: Each kit contains: 1-Hinged Plastic Clamp, 2-Self Tapping Screws, 1-Strain Relief Clip, 1-Cable exit gate plug (used to close unused exit). **Material and Finish: Cover:** Polypropylene, black. **Strain Relief Clip:** Stainless steel. **Retainer Clip:** Stainless steel. **Screws:** Carbon steel, zinc plated.

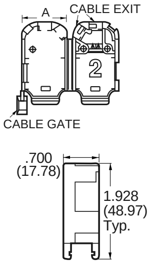
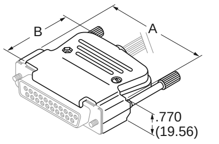
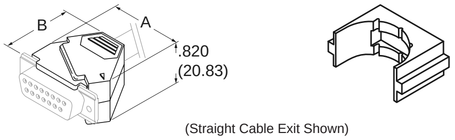


Fig. 6



Cable Clamp Housing: Polyester, black. **4-40 Fillister Head Screws & Hex Nuts:** Steel, clear zinc plated. **Jackscrews:** Steel, black zinc plated

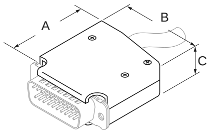
Fig. 7



(Straight Cable Exit Shown)

Straight/90° Exit Cable Clamps can be used on a plug or receptacle and will not interfere with commonly used mating hardware. Their three-piece construction allows easy assembly to a cable harness. Also, the same cable clamp components are used for both straight and 90° cable exit applications. This is accomplished by simply positioning the Male and Female Panels on the Yoke for the desired angle. **Material:** Thermoplastic, black.

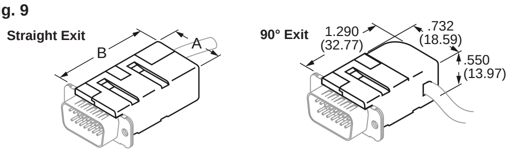
Fig. 8



Straight/45° Exit Cable Clamps can be used on either a plug or receptacle and will not interfere with commonly used hardware, such as Male Screw Retainers, Female Screw-locks or Spring Latches and Latching Blocks. Their hinged construction allows easy assembly to a harness. Also, the straight or 45° angle of the cable exit is achieved by merely positioning the Cable Support Gate for the desired angle prior to installing the assembly onto the plug or receptacle.

Material and Finish: Cable Clamp Housing: Thermoplastic, black with textured finish. **Gates:** Thermoplastic, black. **Pan Head Screw, 6-32 Set Screw and 6-32 Square Nut:** Steel, zinc plated (9 & 15 positions include self-tapping screws only).

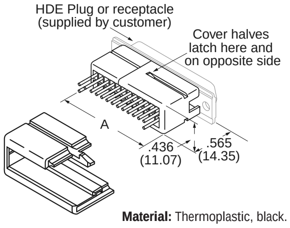
Fig. 9


Straight Exit **90° Exit**

Low Profile Cable Clamps feature a two piece construction which allows the two cover halves to be snapped together, no hardware is required for assembly. They can be used on plugs or receptacles and will not interfere with commonly used mating hardware. Sufficient Cable Support Gates (or a Cable Support Latch) are supplied with each cable clamp kit to achieve adjustable clamping over a wide range of jacketed cable diameters. **Material:** Thermoplastic, black.

Note: To be used with HDE connectors only.

Fig. 10



Material: Thermoplastic, black.

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded Straight Shell with Grommets (Hardware Included)										
1	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.320 (8.13)	Die Cast	A2061-ND†	5.98	5.38	748676-1
						Metal Plated	A2066-ND†	3.90	3.50	748677-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.320 (8.13)	Die Cast	A2062-ND†	5.98	5.38	748676-2
						Metal Plated	A2067-ND†	5.92	5.10	748677-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.470 (11.94)	Metal Plated	A2068-ND†	4.12	3.69	748677-3
						Die Cast	A2063-ND†	6.21	5.58	748676-3
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.470 (11.94)	Die Cast	A2064-ND†	8.97	8.04	748676-4
						Metal Plated	A2069-ND†	9.43	8.13	748677-4
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.470 (11.94)	Die Cast	A2065-ND†	10.12	8.73	748676-5
						Metal Plated	A2070-ND†	15.60	13.45	748677-5
Shielded Straight Shell (Must Order Ferrule & Grommets Separately)										
1	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.200 (5.08)	Die Cast	A2008-ND	7.05	6.32	745171-2
						Metal Plated	A23656-ND	4.23	3.53	745854-5
					.250 (6.35)	Die Cast	A2009-ND	6.27	5.62	745171-1
						Metal Plated	A23655-ND	3.80	3.17	745854-3
					.370 (9.40)	Die Cast	A23637-ND	7.41	6.18	745171-5
						Metal Plated	A23654-ND	4.20	3.50	745854-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.225 (5.72)	Die Cast	A2012-ND	7.28	6.50	745172-3
						Metal Plated	A23662-ND	5.82	4.85	747099-7
					.300 (7.62)	Die Cast	A2013-ND	8.03	7.22	745172-2
						Metal Plated	A23661-ND	5.82	4.85	747099-5
					.375 (9.53)	Die Cast	A2014-ND	6.96	6.21	745172-1
						Metal Plated	A23660-ND	4.11	3.43	747099-3
					.430 (10.92)	Die Cast	A23638-ND	6.90	5.75	1-745172-3
						Metal Plated	A23659-ND	5.82	4.85	747099-1
		1.545 (39.24)	1.805 (45.85)	.620 (15.75)	.300 (7.72)	Die Cast	A23674-ND	9.42	7.85	745919-3
					.375 (9.53)	Die Cast	A23673-ND	7.83	6.53	745919-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.280 (7.11)	Die Cast	A2020-ND	8.42	7.54	745173-5
						Metal Plated	A23653-ND	3.80	3.17	745833-9
					.350 (8.89)	Die Cast	A2021-ND	6.63	5.96	745173-4
						Metal Plated	A23652-ND	4.38	3.65	745833-7
					.430 (10.92)	Die Cast	A2022-ND	6.63	5.96	745173-3
						Metal Plated	A23651-ND	4.23	3.53	745833-5
					.480 (12.19)	Die Cast	A23640-ND	8.13	6.78	745173-2
						Metal Plated	A23650-ND	5.88	4.90	745833-3
					.530 (13.46)	Metal Plated	A23649-ND	5.97	4.98	745833-1
Shielded Straight Shell (Must Order Ferrule & Grommets Separately) cont.										
1	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.350 (8.89)	Die Cast	A2028-ND	5.21	4.66	745174-5
						Metal Plated	A23667-ND	8.85	7.38	747100-9
					.425 (10.80)	Die Cast	A2029-ND	8.97	8.04	745174-4
						Metal Plated	A23666-ND	6.03	5.03	747100-7
					.500 (12.70)	Die Cast	A2030-ND	5.17	4.63	745174-3
						Metal Plated	A23665-ND	6.90	5.75	747100-5
					.530 (13.46)	Die Cast	A23639-ND	10.44	8.70	2-745174-7
					.575 (14.61)	Die Cast	A23642-ND	8.22	6.85	745174-2
						Metal Plated	A23664-ND	8.79	7.33	747100-3
					.650 (16.51)	Die Cast	A23641-ND	8.28	6.90	745174-1
						Metal Plated	A23663-ND	6.03	5.03	747100-1
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.375 (9.53)	Die Cast	A23648-ND	8.37	6.98	745175-6
					.450 (11.43)	Die Cast	A23647-ND	8.61	7.18	745175-5
					.525 (13.34)	Die Cast	A23646-ND	8.43	7.03	745175-4
					.600 (15.24)	Die Cast	A23645-ND	8.61	7.18	745175-3
					.675 (17.15)	Die Cast	A23644-ND	8.52	7.10	745175-2
					.750 (19.05)	Die Cast	A23643-ND	8.37	6.98	745175-1
Straight Shield with Grommets (Hardware Included)										
1	9	1.215 (30.86)	1.910 (48.51)	.570 (14.48)	.320 (8.13)	Plastic, Black	A2071-ND†	3.22	2.89	748678-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.320 (8.13)	Plastic, Black	A2072-ND†	4.38	3.78	748678-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.470 (11.94)	Plastic, Black	A2073-ND†	3.44	3.08	748678-3
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.470 (11.94)	Plastic, Black	A2074-ND†	3.65	3.15	748678-4
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.470 (11.94)	Plastic, Black	A2075-ND†	6.26	5.40	748678-5

† Sold as a kit; complete with Ferrule and Grommets.

(Continued)

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Descrip. (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight / 90° Shield (Hardware Included)									
2	9	.755 (19.18)	.635 (16.13)	.160 (4.06)	Plastic	A9001-ND	2.78	2.50	207467-1
	15	1.078 (27.38)	.635 (16.13	.320 (8.13)	Plastic	A9002-ND	3.43	3.07	207470-1
	25	1.620 (41.15)	.770 (19.56)	.390 (9.91)	Plastic	A9003-ND	3.51	3.15	207345-1
	37	2.268 (57.61)	.770 (19.56)	.640 (16.26) Straight .405 (10.29) 90°	Plastic	A9004-ND	2.11	1.92	207473-1
	50	2.178 (55.32)	.880 (22.35)	.490 (12.45)	Plastic	A2060-ND	3.25	2.80	207476-1
Plastic Shield with Male Screw Retainers (Hardware Included)									
2	9	.755 (19.18)	.635 (16.13)	.160 (4.06)	Plastic	A23621-ND	2.97	2.48	207908-1
	15	1.078 (27.38)	.635 (16.13	.320 (8.13)	Plastic	A23622-ND	3.73	3.11	207908-4
	25	1.620 (41.15)	.770 (19.56)	.390 (9.91)	Plastic	A23623-ND	3.37	2.81	207908-7
	37	2.268 (57.61)	.770 (19.56)	.640 (16.26) Straight .405 (10.29) 90°	Plastic	A23617-ND	3.93	3.28	1-207908-0

Fig.	No. of Pos.	Dimension Inch (mm) A	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
90° Shell - Hardware Included (Must Order Ferrule Separately)								
3	15	2.310 (58.67)	.225 (5.72)	Die Cast	A2015-ND	11.12	9.95	745652-4
			.300 (7.62)	Die Cast	A2016-ND	8.13	7.28	745652-3
			.375 (9.53)	Die Cast	A2017-ND	8.17	7.31	745652-2
			.430 (10.92)	Die Cast	A2036-ND	7.94	7.11	745652-1
	25	2.850 (72.39)	.280 (7.11)	Die Cast	A2023-ND	9.67	8.66	745653-5
			.355 (9.02)	Die Cast	A2024-ND	9.71	8.69	745653-4
			.430 (10.92)	Die Cast	A2025-ND	16.41	14.70	745653-3
			.480 (12.19)	Die Cast	A23672-ND	17.01	14.18	745653-2
			.530 (13.46)	Die Cast	A23671-ND	15.27	12.73	745653-1
90° Shell without Slide Latch (Must Order Ferrule Separately)								
3	15	2.310 (58.67)	.375 (9.53)	Die Cast	A23670-ND	8.88	7.40	745918-2

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight / 90° Shield (Hardware Included)										
4	15	1.550 (39.37)	.826 (20.98)	1.750 (44.45)	.350 (8.89)	Plastic, Gray	A2055-ND	3.36	2.90	206471-1
	25	2.090 (53.09)	.826 (20.98)	1.750 (44.45)	.335 (8.51)	Plastic, Gray	A2056-ND	3.36	2.90	206472-1
		2.090 (53.09)	.826 (20.98)	1.750 (44.45)	.460 (11.68)	Plastic, Gray	A2057-ND	3.34	2.88	745134-1
		2.090 (53.09)	.740 (18.80)	2.100 (53.34)	.530 (13.46)	Plastic, Black	A23636-ND	5.76	4.80	747824-1
	37	2.738 (69.55)	.826 (20.98)	1.750 (44.45)	.675 (17.15)	Plastic, Gray	A2058-ND	3.51	3.03	745081-1
	50	2.644 (67.16)	.938 (23.83)	1.750 (44.45)	.775 (19.69)	Plastic, Gray	A2059-ND	3.65	3.15	745082-1

Fig.	No. of Pos.	Dimension Inch (mm) A	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Plastic Shield (Hardware Included)								
5	9	.782 (19.86)	.250 (6.35)	w/Screws	A2051-ND	1.74	1.50	749914-2
				w/out Screws	A23608-ND	2.37	1.98	750100-1
	15	1.105 (28.07)	.380 (9.65)	w/Screws	A2052-ND	1.71	1.48	749915-2
				w/out Screws	A23609-ND	2.40	2.00	750101-1
	25	1.650 (41.91)	.460 (11.68)	w/Screws	A2053-ND	1.77	1.53	749626-2
				w/out Screws	A23607-ND	1.35	1.13	750078-1
	37	2.296 (58.32)	.550 (13.97)	w/Screws	A2054-ND	2.44	2.10	749916-2
Plastic Shield with Connector (Hardware Included)								
5	25	1. 650 (41.91)	.460 (11.68)	Recept./HDP-20	A23615-ND	4.44	3.70	749812-3
				Plug/HDE-20	A23614-ND	5.85	4.88	749809-3
				Recept./HDE-20	A23616-ND	5.94	4.95	749813-3

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Dataphone									
6	15	1.575 (40.01)	1.312 (33.32)	.400 (10.16)	Straight	A23603-ND	9.54	7.95	745122-2
	25	2.115 (53.72)	1.421 (36.09)	.500 (12.7)	Straight	A23602-ND	8.46	7.05	745121-2
7	25	1.906 (48.41) 2.066 (52.48)	1.672 (42.47) 1.396 (35.46)	.550 (13.97) .550 (13.97)	Straight 90°	A23604-ND	4.20	3.50	745306-1
	37	2.424 (61.57) 2.638 (67.01)	1.820(46.23) 1.596 (40.54)	.750 (19.05) .750 (19.05)	Straight 90°	A23605-ND	10.62	8.85	745311-1

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight / 45° Exit Unshielded Shell (Hardware Included)										
8	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A23627-ND	2.37	1.98	205729-1
	15	1.250 (31.75)	1.073 (27.25)	.580 (14.73)	.320 (8.13)	Plastic	A23632-ND	3.69	3.08	206393-1
	15	1.625 (41.28)	1.073 (27.25)	.620 (15.75)	.320 (8.13)	Plastic	A23628-ND	2.88	2.40	205730-1
	25	1.250 (31.75)	1.615 (41.02)	.580 (14.73)	.420 (10.67)	Plastic	A23631-ND	3.60	3.00	206390-1
	25	1.625 (41.28)	1.615 (41.02)	.620 (15.75)	.420 (10.67)	Plastic	A23626-ND	2.17	1.82	205718-1
	37	1.625 (41.28)	2.263 (57.48)	.620 (15.75)	.490 (12.45)	Plastic	A23629-ND	3.00	2.50	205731-1
	50	1.625 (41.28)	2.168 (55.07)	.730 (18.54)	.600 (15.24)	Plastic	A23630-ND	3.33	2.78	205732-1
Straight / 45° Exit Shell with Male Screw Retainers (Hardware Included)										
8	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A23633-ND	2.45	2.05	206478-1
	25	1.250 (31.75)	1.615 (41.02)	.580 (14.73)	.420 (10.67)	Plastic	A23625-ND	4.14	3.45	1-206478-2
	25	1.625 (41.28)	1.615 (41.02)	.620 (15.75)	.420 (10.67)	Plastic	A23635-ND	2.57	2.15	206478-3

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Low Profile for Jacketed Cable									
9	9	.732 (18.59)	1.582 (40.18)	.330 (8.38)	Straight	A23592-ND‡	6.93	5.78	745547-1
		—	—	.330 (8.38)	90°	A23594-ND‡	3.06	2.55	745550-1
	15	1.056 (26.82)	1.582 (40.18)	.425 (10.80)	Straight	A23595-ND‡	9.15	7.63	745553-1
	25	1.604 (40.74)	1.700 (43.18)	.550 (13.97)	Straight	A23596-ND‡	2.88	2.40	745560-1

‡ To be used with HDE connectors only.

Fig.	No. of Positions	Dimension Inch (mm) A	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Plastic Slide-On Back Covers						
10	9	.610 (15.49)	A23598-ND	1.54	1.29	745530-1
	15	.934 (23.72)	A23599-ND	4.29	3.58	745530-2
	25	1.482 (37.64)	A23600-ND	4.35	3.63	745530-3
	37	2.134 (54.20)	A23601-ND	4.42	3.69	745530-4

AMPLIMITE® Ferrules For Metal Shell Hoods

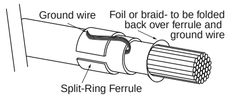
Split-Ring Ferrules for Foil or Braided Cable Shield
- Material: Aluminum

Crimp Ferrules for Braided Cable Shield
- Material and Finish:
  Outer Ferrule: Copper, plated 100µ min. tin
  Inner Ferrule: .023” (0.58mm) thick brass, plated 50µ tin over copper

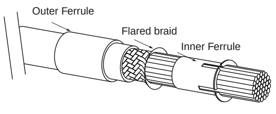
No. of Pos.	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Split-Ring Ferrules					
9	.200 (5.08)	A2010-ND	.22	.20	745508-2
9/15	.225 - .240 (5.72 - 6.10)	A2011-ND	.22	.21	745508-3
9/15/50	.370 - .375 (9.40 - 9.53)	A2019-ND	.22	.21	745508-6
15/25	.280 - .300 (7.11 - 7.62)	A2026-ND	.22	.21	745508-4
25/37	.350 (8.89)	A2027-ND	.22	.21	745508-5
15/25/37	.430 (10.92)	A2034-ND	.38	.35	745508-1
25/37	.480 - .500 (12.19 - 12.70)	A2035-ND	.22	.21	745508-8
50	.525 (13.34)	A23575-ND	1.22	1.02	745508-9

No. of Pos.	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Inner Crimp Ferrules					
9/50	.240 (6.10)	A23564-ND	1.19	1.00	1-745129-8
9	.280 (7.11)	A23572-ND	1.39	1.17	3-745129-4
9/50	.365 - .370 (9.27 - 9.40)	A23563-ND	1.42	1.19	1-745129-7
15/37	.350 (8.90)	A23570-ND	.61	.51	2-745129-0
15/37	.430 (10.92)	A23565-ND	1.26	1.05	1-745129-9
37	.525 (13.34)	A23597-ND	2.80	2.34	2-745129-6
Outer Crimp Ferrules					
9/50	.240 (6.10)	A23573-ND	.81	.68	745130-8
9/15/37	.280 (7.11)	A23569-ND	.91	.76	1-745130-6
9/50	.365 - .370 (9.27 - 9.40)	A23566-ND	1.86	1.55	1-745130-0
15/37	.350 (8.90)	A23574-ND	.55	.47	745130-9
15/37/50	.430 (10.92)	A23567-ND	.72	.61	1-745130-1
37	.240 (6.10)	A23562-ND	.48	.40	747580-8
37	.650 (16.51)	A23568-ND	1.46	1.22	1-745130-3

SPLIT RING FERRULE


Ground wire
Foil or braid- to be folded back over ferrule and ground wire
Split-Ring Ferrule

CRIMP FERRULE



AMP tyco Electronics
Authorized Distributor

AMPLIMITE®

Accessories / Hardware

(Sold In Packages of 2 unless otherwise noted)

Fig. 1

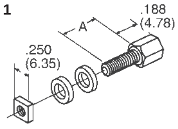


Fig. 2

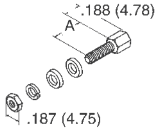


Fig. 3

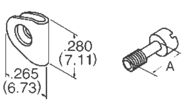


Fig. 4

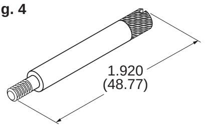


Fig. 5

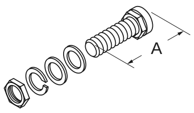


Fig. 6

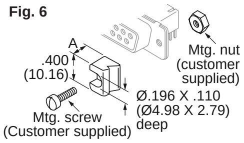


Fig. 7

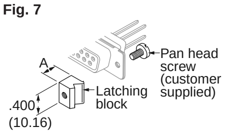


Fig. 8

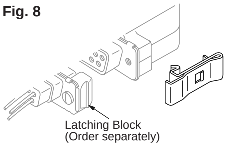

Latching Block
(Order separately)

Fig. 9

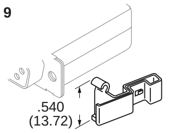


Fig. 10

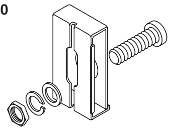
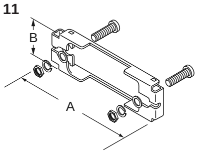


Fig. 11



Style 1: Can be used with cable clamps that do not extend beyond the front flange of the connector or on connectors without cable clamps.

Style 2: Can be used with any cable clamp that has the mounting ear configuration.

Style 3: Can be used on connectors without cable clamps or with cable clamps that do not have the mounting ear configuration.

Fig. 12

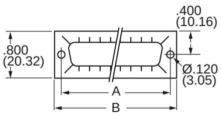


Fig. 13

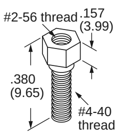


Fig. 14

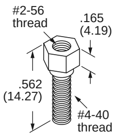


Fig. 15

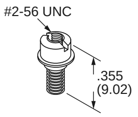


Fig. 16

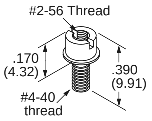


Fig. 17

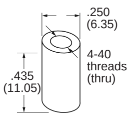


Fig.	Connector Used w/ AMP Series	Finish	Thread	Dim. – A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Female Screw Locks - Steel, Zinc Plated								
1	HD Plastic	Yellow Chromate	4-40	.250 (6.35)	A9005-ND	1.58	1.42	207952-1
2	HDE	Yellow Chromate	4-40	.250 (6.35)	A23427-ND	1.78	1.49	745563-1
	HDE	Clear Chromate	4-40	.250 (6.35)	A23428-ND	1.59	1.33	745563-3
	HDP/HDF	Yellow Chromate	4-40	.312 (7.92)	A9006-ND	1.41	1.27	205817-1
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A23422-ND	1.31	1.10	205817-3
	HDP/HDF	Yellow Chromate	4-40, MIL-C24308	.312 (7.92)	A24835-ND	.79	.67	205817-8
	HDP/HDF	Yellow Chromate	M3 (Metric)	.312 (7.92)	A23424-ND	1.92	1.60	207872-1
	HDP/HDF	Clear Chromate	M3 (Metric)	.312 (7.92)	A23425-ND	2.88	2.40	207872-3
	HD/HDF	Yellow Chromate	4-40	.560 (14.22)	A9007-ND	1.71	1.54	207719-1
	HD/HDF	Clear Chromate	4-40	.560 (14.22)	A23423-ND	1.51	1.26	207719-3
	HD/HDF	Clear Chromate	2-56 Male (4-40 Female)	.560 (14.22)	A23429-ND	2.61	2.18	747223-3
Individual Screwlocks - Steel, Zinc Plated (washers and nuts not included)								
1	HD	Clear Chromate	4-40	.250 (6.35)	A23426-ND	1.41	1.18	207952-3
2	HDP/HDF	Clear Chromate	M2.6 (Metric) Female, (4-40 Male)	.312 (7.92)	A23432-ND	.96	.80	749765-3
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A23430-ND	.91	.76	748270-2
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A23431-ND†	489.70/500		748558-4
Male Screw Retainers for Plastic Shell Connectors - Steel, Zinc Plated (material)								
3	HDE	Yellow Chromate	4-40	.220 (5.59)	A1236-ND	.41	.38	745647-1
Male Screw Retainers for Metal Shell Connectors - Steel, Zinc Plated (material)								
3	HDE/ HDP	Yellow Chromate	4-40	.220 (5.59)	A9008-ND	.60	.54	205980-1
		Yellow Chromate	4-40	.200 (5.08)	A23420-ND	1.07	.90	745136-1
		Yellow Chromate	M3 (Metric)	.225 (5.72)	A23419-ND	1.92	1.60	207871-1
		Clear Chromate	4-40	.220 (5.59)	A23418-ND	.67	.56	205980-4
		Clear Chromate	4-40	.200 (5.08)	A23421-ND	1.07	.90	745136-3
Male Jack Screw - Steel, Zinc Plated								
4	HDE/HDP	Clear Chromate	4-40	—	A23593-ND†	2.57	2.15	747784-3
Locking Post Assembly - Steel, Zinc Plated (2 complete assemblies)								
5	HD/HDE HDF/HDP	Yellow Chromate	4-40	.410 (10.41)	A23439-ND	2.37	1.98	206514-1
		Clear Chromate	4-40	.410 (10.41)	A24836-ND	2.25	1.88	206514-4
		Yellow Chromate	4-40	.560 (14.22)	A23440-ND	2.53	2.11	206514-6
		Yellow Chromate	2-56	.615 (15.62)	A23442-ND	2.25	1.88	747242-1
		Clear Chromate	2-56	.615 (15.62)	A23443-ND	2.25	1.88	747242-3

† Bulk packed and with captivated star washer. No additional hardware included.

Fig.	No. Of Positions	Description	Thread	Dim. – A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Latching Blocks - Slot Recess & Thru-Hole - Zinc								
6	9-37	Rear-Panel Latching	—	.160 (4.06)	A23453-ND	4.03	3.36	747080-2
	9-37	Rear-Panel Latching	—	.190 (4.83)	A23451-ND	.80	.67	745245-2
	9-37	Front-Panel Latching	—	.250 (6.35)	A23452-ND	.77	.64	745286-2
Latching Blocks - Threaded Hole - Zinc								
7	9-37	Rear-Panel Latching	4-40	.190 (4.83)	A23449-ND	2.44	2.04	745403-8
	9-37	Rear-Panel Latching	4-40	.220 (5.59)	A23450-ND	6.47	5.40	747717-2
	9-37	Front-Panel Latching	M3	.250 (6.35)	A23447-ND	1.18	.99	208101-1
	9-37	Front-Panel Latching	4-40	.250 (6.35)	A23448-ND	1.18	.99	208101-8

Fig.	No. Of Positions	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Spring Latches - Stainless Steel						
8	—	With Mounting Ears	A23445-ND	1.50	1.26	745255-2
9	9-37	Spring Latch	A23446-ND	1.58	1.32	745779-2
Slide Latch Clips - Steel, Zinc Plated (clip stainless steel, screws/washers/nuts - steel, zinc plated)						
10	—	Thread 4-40, Screw Length .415 (10.54mm)	A23441-ND	2.13	1.78	206942-1
	—	Thread 2-56, Screw Length .547 (13.89mm)	A23444-ND	4.86	4.05	748078-1

Fig.	No. Of Positions	Style #	Thread Size	Dimensions Inches (mm) A	Dimensions Inches (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Slide Latch Clips - Stainless Steel (screws/washers/nuts - steel, zinc plated)									
11	9	1	4-40	1.397 (35.48)	.490 (12.45)	A23433-ND	2.97	2.48	745404-1
	15	2	2-56	1.725 (43.82)	.470 (11.94)	A23436-ND	4.38	3.65	745583-1
	15	2	4-40	1.725 (43.82)	.470 (11.94)	A24837-ND	4.17	3.48	745583-7
	25	2	2-56	2.265 (57.53)	.470 (11.94)	A23437-ND	7.17	5.98	745584-1
	25	3	4-40	2.265 (57.53)	.470 (11.94)	A23438-ND	3.99	3.33	745584-3
	37	1	4-40	2.913 (73.99)	.490 (12.45)	A23434-ND	4.80	4.00	745407-1
	50	3	4-40	2.819 (71.60)	.575 (14.61)	A23435-ND	6.33	5.28	745578-3

Fig.	No. Of Positions	Dimensions Inches (mm) A	Dimensions Inches (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
EMI/RFI Gaskets - Brass .006" (0.15mm) Thick, Bright Tin Plated							
12	9	.984 (24.99)	1.220 (30.99)	A23457-ND	1.20	1.00	747024-3
	15	1.312 (33.32)	1.555 (39.50)	A23458-ND	1.23	1.03	747025-3
	25	1.852 (47.04)	2.100 (53.34)	A23455-ND	1.32	1.10	745776-3
	37	2.500 (63.50)	2.730 (69.34)	A23456-ND	1.50	1.25	745777-3
13	Screwlock Kits for .050 Series, stainless steel			A23468-ND*	1.84	1.54	749087-2
14	Screwlock Kits for .050 Series, stainless steel			A24212-ND*	4.41	3.68	749087-4
15	Screwlock Kits for .050 Series, stainless steel, Thread 4-40			A23469-ND	2.51	2.10	750644-1
15	Screwlock Kits for .050 Series, stainless steel, Thread 2-56			A23470-ND	2.50	2.09	786585-2
16	Screwlock Kits for .050 Series, stainless steel			A23675-ND	3.78	3.15	750831-1
17	Standoff Bushings, Aluminum			A23454-ND	.71	.60	205933-4
—	Grommet Set (4 per set), 9-15 positions			A23668-ND	.72	.60	747746-1
—	Grommet Set (4 per set), 25-50 positions			A23669-ND	.81	.68	747973-1

* Recommended for right-angle board mount connectors.

KEYSTONE ELECTRONICS CORP.

Connector Hardware

Material: Steel, Zinc Plate and Gold Iridite.
Threads: 4-40

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 50	Keystone Part No.
1	Jack Screws 4/40 thread, (1 pkg. = 2 screws) 2 pc. required per connector	2073K-ND	5.93	5.34	3.32	2073
2	Jack Screws 4/40 thd. slim line, 1.25", (1 pkg. = 2 screws) 2 pc. required per connector	2069K-ND	4.58	4.13	2.57	2069
2	Jack Screws 4/40 thd. slim line, 1.75", (1 pkg. = 2 screws) 2 pc. required per connector	2071K-ND	4.82	4.34	2.70	2071
3	Jack Screws 4/40 x .250" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws) ...	7229K-ND	.90	.81	.48	7229
3	Jack Screws 4/40 x .312" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws) ...	7231K-ND	.73	.66	.39	7231
3	Jack Screws 4/40 x .625" (10 pcs. = 4 flat washes, 2 lock washers, 2 nuts, 2 jack screws)	7233K-ND	1.61	1.45	.86	7233
3	Jack screw .312" L 4-40 thread, clear chromate, (1 pkg. = 2 jack screws) 2 pc. required per connector......................................	7230-5K-ND	.52	.47	.32	7230-5
3	Sems jack screw .285" L 4-40 thread, (1 pkg. = 2 screws) 2 pc. required per connector	7235K-ND	.72	.66	.44	7235
4	"U" Clip Set (4 pieces = 2 screws and 2 clips)...	2062K-ND	.88	.79	.50	2062
5	Saddle Washer Set (4 pieces = 2 screws and 2 clips)	2063K-ND	.99	.89	.56	2063
6	4/40 x .250" Bow Tie Clip Set (4 pieces = 2 screws and 2 clips).............................	2060K-ND	1.10	.99	.62	2060
6	4/40 x .562" Bow Tie Clip Set (4 pieces = 2 Screws and 2 clips)	2061K-ND	1.21	1.09	.68	2061

Fig. 1

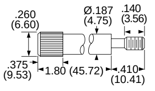


Fig. 2

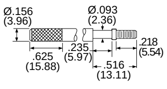


Fig. 3

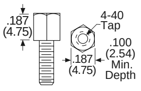


Fig. 4

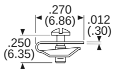


Fig. 5

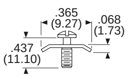
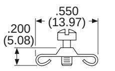


Fig. 6

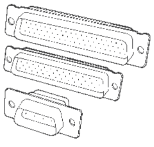


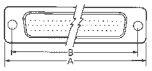
NORCOMP

High Density D-Sub Connectors

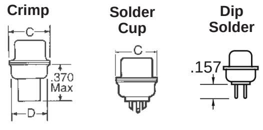
• Compatible with new generation systems from several computer manufacturers • Shells have bright tin finish for EMI/RFI shielding • Male connector shells have grounding indents • Reliable crimp snap-in contacts feature insulation grip for increased holding power • Contacts compatible with industry standard crimp tools.

Materials: Shell: Steel, with bright tin over nickel. Insulator: Glass-filled thermoplastic, UL rated 94V-0. Male Pin: Brass. Female Contact: Phosphor bronze. Contact Plating: gold over nickel (gold flash on entire contact for solder cup and dip solder)

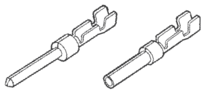




Contacts Sold Separately Below



Stamped Contacts For High Density D-Sub Connectors
Pin Dia: .030" (.76mm)



Wire Size: 22-26 AWG.

No. of Pins	Shell Size	Dimensions (Inch)			
		A	B	C	D
15	DB-9	1.213	.984	.496	.422
26	DB-15	1.543	1.312	.496	.422
44	DB-25	2.087	1.852	.496	.422
62	DB-37	2.732	2.500	.496	.422
78	DB-50	2.638	2.406	.606	.550

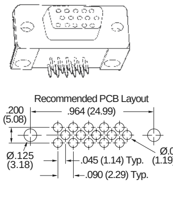
Note: Contacts sold separately (below) for Crimp Type.

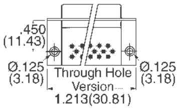
No. of Pins	Type	Digi-Key Part No.	Price Each					NorComp Part No.
			1	10	100	500	1,000	
Crimp								
15	Male	815M-ND	1.91	1.65	1.13	.96	.83	180-015-172-000
15	Female	815F-ND	1.91	1.65	1.13	.96	.83	180-015-272-000
26	Male	826M-ND	5.90	5.09	3.46	2.95	2.55	180-026-172-000
26	Female	826F-ND	6.39	5.51	3.75	3.20	2.76	180-026-272-000
44	Male	844M-ND	6.87	5.93	4.03	3.44	2.97	180-044-172-000
44	Female	844F-ND	6.99	6.03	4.10	3.50	3.02	180-044-272-000
62	Male	862M-ND	8.76	7.55	5.14	4.38	3.78	180-062-172-000
62	Female	862F-ND	8.35	7.20	4.90	4.18	3.60	180-062-272-000
78	Male	878M-ND	15.65	13.49	9.18	7.83	6.75	180-078-172-000
78	Female	878F-ND	10.72	9.25	6.29	5.37	4.63	180-078-272-000
Crimp with .065" Clinch Nuts, Board Side								
15	Male	1815M-ND	3.02	2.60	1.77	1.51	1.30	180-015-172-010
15	Female	1815F-ND	3.02	2.60	1.77	1.51	1.30	180-015-272-010
26	Male	1826M-ND	7.48	6.45	4.39	3.75	3.23	180-026-172-010
26	Female	1826F-ND	7.74	6.68	4.54	3.88	3.34	180-026-272-010
44	Male	1844M-ND	8.27	7.13	4.85	4.14	3.57	180-044-172-010
44	Female	1844F-ND	8.27	7.13	4.85	4.14	3.57	180-044-272-010
62	Male	1862M-ND	10.21	8.80	5.99	5.11	4.40	180-062-172-010
62	Female	1862F-ND	10.21	8.80	5.99	5.11	4.40	180-062-272-010
78	Male	1878M-ND	18.39	15.85	10.78	9.20	7.93	180-078-172-010
78	Female	1878F-ND	14.09	12.15	8.27	7.05	6.08	180-078-272-010
Crimp with .250" Clinch Nuts, Board Side								
15	Male	2815M-ND	3.02	2.60	1.77	1.51	1.30	180-015-172-020
15	Female	2815F-ND	3.02	2.60	1.77	1.51	1.30	180-015-272-020
26	Male	2826M-ND	7.48	6.45	4.39	3.75	3.23	180-026-172-020
26	Female	2826F-ND	7.74	6.68	4.54	3.88	3.34	180-026-272-020
44	Male	2844M-ND	8.27	7.13	4.85	4.14	3.57	180-044-172-020
44	Female	2844F-ND	8.27	7.13	4.85	4.14	3.57	180-044-272-020
62	Male	2862M-ND	10.21	8.80	5.99	5.11	4.40	180-062-172-020
62	Female	2862F-ND	10.21	8.80	5.99	5.11	4.40	180-062-272-020
78	Male	2878M-ND	18.39	15.85	10.78	9.20	7.93	180-078-172-020
78	Female	2878F-ND	14.09	12.15	8.27	7.05	6.08	180-078-272-020
Crimp with .250" Clinch Nuts, Mating Side								
15	Male	3815M-ND	3.02	2.60	1.77	1.51	1.30	180-015-172-030
15	Female	3815F-ND	3.02	2.60	1.77	1.51	1.30	180-015-272-030
26	Male	3826M-ND	7.48	6.45	4.39	3.75	3.23	180-026-172-030
26	Female	3826F-ND	7.74	6.68	4.54	3.88	3.34	180-026-272-030
44	Male	3844M-ND	8.27	7.13	4.85	4.14	3.57	180-044-172-030
44	Female	3844F-ND	8.27	7.13	4.85	4.14	3.57	180-044-272-030
62	Male	3862M-ND	10.21	8.80	5.99	5.11	4.40	180-062-172-030
62	Female	3862F-ND	10.21	8.80	5.99	5.11	4.40	180-062-272-030
78	Male	3878M-ND	18.39	15.85	10.78	9.20	7.93	180-078-172-030
78	Female	3878F-ND	14.09	12.15	8.27	7.05	6.08	180-078-272-030
Contacts								
—	Pin	85P-ND	—	.13	.09	.08	.07	180-001-170-001
—	Socket	85S-ND	—	.13	.09	.08	.07	180-002-170-001
Insertion/Removal Tool		T2020-ND	8.76	7.55	5.14	4.38	3.78	180-901-170-000
Solder Cup								
15	Male	T815M-ND	2.13	1.84	1.25	1.07	.92	180-015-102-001
15	Female	T815F-ND	2.45	2.12	1.44	1.23	1.06	180-015-202-001
26	Male	T826M-ND	6.92	5.97	4.06	3.47	2.99	180-026-102-001
26	Female	T826F-ND	7.35	6.34	4.31	3.68	3.17	180-026-202-001
44	Male	T844M-ND	8.35	7.20	4.90	4.18	3.60	180-044-102-001
44	Female	T844F-ND	9.67	8.34	5.67	4.84	4.17	180-044-202-001
62	Male	T862M-ND	10.40	8.97	6.10	5.20	4.49	180-062-102-001
62	Female	T862F-ND	11.74	10.13	6.89	5.88	5.07	180-062-202-001
Solder Cup with .065" Clinch Nuts, Board Side								
15	Male	4815M-ND	3.28	2.83	1.93	1.64	1.42	180-015-102-011
15	Female	4815F-ND	3.63	3.13	2.13	1.82	1.57	180-015-202-011
26	Male	4826M-ND	11.51	9.93	6.75	5.76	4.97	180-026-102-011
26	Female	4826F-ND	9.11	7.85	5.34	4.56	3.93	180-026-202-011
44	Male	4844M-ND	10.21	8.80	5.99	5.11	4.40	180-044-102-011
44	Female	4844F-ND	11.69	10.08	6.86	5.85	5.04	180-044-202-011
62	Male	4862M-ND	12.53	10.80	7.35	6.27	5.40	180-062-102-011
62	Female	4862F-ND	17.63	15.20	10.34	8.82	7.60	180-062-202-011
78	Male	4878M-ND	17.63	15.20	10.34	8.82	7.60	180-078-102-011
78	Female	4878F-ND	18.42	15.88	10.80	9.21	7.94	180-078-202-011
Solder Cup with .250" Clinch Nuts, Board Side								
15	Male	5815M-ND	3.28	2.83	1.93	1.64	1.42	180-015-102-021
15	Female	5815F-ND	3.63	3.13	2.13	1.82	1.57	180-015-202-021
26	Male	5826M-ND	11.51	9.93	6.75	5.76	4.97	180-026-102-021
26	Female	5826F-ND	9.11	7.85	5.34	4.56	3.93	180-026-202-021
44	Male	5844M-ND	10.21	8.80	5.99	5.11	4.40	180-044-102-021
44	Female	5844F-ND	11.69	10.08	6.86	5.85	5.04	180-044-202-021
62	Male	5862M-ND	12.53	10.80	7.35	6.27	5.40	180-062-102-021
62	Female	5862F-ND	17.63	15.20	10.34	8.82	7.60	180-062-202-021
78	Male	5878M-ND	17.63	15.20	10.34	8.82	7.60	180-078-102-021
78	Female	5878F-ND	18.42	15.88	10.80	9.21	7.94	180-078-202-021
Solder Cup with .250" Clinch Nuts, Mating Side								
15	Male	6815M-ND	3.28	2.83	1.93	1.64	1.42	180-015-102-031
15	Female	6815F-ND	3.63	3.13	2.13	1.82	1.57	180-015-202-031
26	Male	6826M-ND	11.51	9.93	6.75	5.76	4.97	180-026-102-031
26	Female	6826F-ND	9.11	7.85	5.34	4.56	3.93	180-026-202-031
44	Male	6844M-ND	10.21	8.80	5.99	5.11	4.40	180-044-102-031
44	Female	6844F-ND	11.69	10.08	6.86	5.85	5.04	180-044-202-031
62	Male	6862M-ND	12.53	10.80	7.35	6.27	5.40	180-062-102-031
62	Female	6862F-ND	17.63	15.20	10.34	8.82	7.60	180-062-202-031
78	Male	6878M-ND	17.63	15.20	10.34	8.82	7.60	180-078-102-031
78	Female	6878F-ND	18.42	15.88	10.80	9.21	7.94	180-078-202-031
Dip Solder High Density								
15	Male	180-15M-ND	2.38	2.05	1.40	1.19	1.03	180-015-112-001
15	Female	180-15F-ND	2.00	1.73	1.18	1.01	.87	180-015-212-001
26	Male	180-26M-ND	3.68	3.18	2.16	1.85	1.59	180-026-112-001
26	Female	180-26F-ND	4.18	3.60	2.45	2.09	1.80	180-026-212-001
44	Male	180-44M-ND	6.55	5.65	3.85	3.28	2.83	180-044-112-001
44	Female	180-44F-ND	6.53	5.63	3.83	3.27	2.82	180-044-212-001
62	Male	180-62M-ND	8.90	7.68	5.22	4.46	3.84	180-062-112-001
62	Female	180-62F-ND	9.02	7.78	5.29	4.51	3.89	180-062-212-001
78	Male	180-78M-ND	13.05	11.25	7.65	6.53	5.63	180-078-112-001
78	Female	180-78F-ND	12.76	11.00	7.48	6.38	5.50	180-078-212-001
Dip Solder High Density with .065" Clinch Nuts, Board Side								
15	Male	7815M-ND	3.48	3.00	2.04	1.74	1.50	180-015-112-011
15	Female	7815F-ND	3.07	2.65	1.81	1.54	1.33	180-015-212-011
26	Male	7826M-ND	4.90	4.23	2.88	2.46	2.12	180-026-112-011
26	Female	7826F-ND	5.45	4.70	3.20	2.73	2.35	180-026-212-011
44	Male	7844M-ND	8.06	6.95	4.73	4.04	3.48	180-044-112-011
44	Female	7844F-ND	8.03	6.93	4.71	4.02	3.47	180-044-212-011
62	Male	7862M-ND	10.64	9.18	6.24	5.33	4.59	180-062-112-011
62	Female	7862F-ND	10.79	9.30	6.33	5.40	4.65	180-062-212-011
78	Male	7878M-ND	15.23	13.13	8.93	7.62	6.57	180-078-112-011
78	Female	7878F-ND	14.88	12.83	8.73	7.44	6.42	180-078-212-011
Dip Solder High Density with .250" Clinch Nuts, Board Side								
15	Male	8815M-ND	3.48	3.00	2.04	1.74	1.50	180-015-112-021
15	Female	8815F-ND	3.07	2.65	1.81	1.54	1.33	180-015-212-021
26	Male	8826M-ND	4.90	4.23	2.88	2.46	2.12	180-026-112-021
26	Female	8826F-ND	5.45	4.70	3.20	2.73	2.35	180-026-212-021
44	Male	8844M-ND	8.06	6.95	4.73	4.04	3.48	180-044-112-021
44	Female	8844F-ND	8.03	6.93	4.71	4.02	3.47	180-044-212-021
62	Male	8862M-ND	10.64	9.18	6.24	5.33	4.59	180-062-112-021
62	Female	8862F-ND	10.79	9.30	6.33	5.40	4.65	180-062-212-021
78	Male	8878M-ND	15.23	13.13	8.93	7.62	6.57	180-078-112-021
78	Female	8878F-ND	14.88	12.83	8.73	7.44	6.42	180-078-212-021
Dip Solder High Density with .250" Clinch Nuts, Mating Side								
15	Male	9815M-ND	3.48	3.00	2.04	1.74	1.50	180-015-112-031
15	Female	9815F-ND	3.07	2.65	1.81	1.54	1.33	180-015-212-031
26	Male	9826M-ND	4.90	4.23	2.88	2.46	2.12	180-026-112-031
26	Female	9826F-ND	5.45	4.70	3.20	2.73	2.35	180-026-212-031
44	Male	9844M-ND	8.06	6.95	4.73	4.04	3.48	180-044-112-031
44	Female	9844F-ND	8.03	6.93	4.71	4.02	3.47	180-044-212-031
62	Male	9862M-ND	10.64	9.18	6.24	5.33	4.59	180-062-112-031
62	Female	9862F-ND	10.79	9.30	6.33	5.40	4.65	180-062-212-031
78	Male	9878M-ND	15.23	13.13	8.93	7.62	6.57	180-078-112-031
78	Female	9878F-ND	14.88	12.83	8.73	7.44	6.42	180-078-212-031

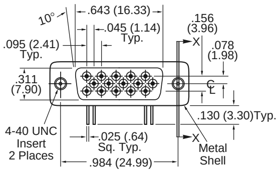
NORCOMP

High Density 90° PC Mount D-Sub Connector

SPECIFICATIONS:
- **Contact Rating:** 5 Amps
- **Dielectric Strength:** 1000V AC RMS
- **Insulation Resistance:** 1000 meg ohms
- **Contact Material:** Phosphor Bronze
- **Contact Finish:** Gold flash over Nickel
- **Operating Temperature:** -55°C to 150°C
- **Shell Material:** Steel, Tin Plated
- **Insulations Material:** Glass-Filled Polyester (UL 94V-0)
- **Gender:** Receptacle (female)







No. of Pins	Type	Digi-Key Part No.	Price Each					NorComp Part No.
			1	10	100	500	1,000	
181 Series (.590" Footprint)								
15	Female	815RF-ND	2.98	2.57	1.75	1.49	1.29	181-015-212-171
26	Female	826RF-ND	8.45	7.29	4.96	4.23	3.65	181-026-212-171
44	Female	844RF-ND	9.13	7.88	5.36	4.57	3.94	181-044-212-171
62	Female	862RF-ND	12.17	10.50	7.14	6.09	5.25	181-062-212-171

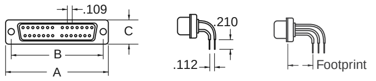
NorComp

Right Angle D-Sub Connectors

173, 174, 175 and 176 Series:

Materials:
- **Shell:** Steel, zinc plated with yellow chromate
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Machined Contacts:** Male: Brass; Female: Phosphor bronze
- **Plating:** Gold flash on entire contact

Connector Size	Dimensions (Inch) A	B	C
9	1.213	.984	.494
15	1.541	1.312	.494
25	2.088	1.852	.494
37	2.729	2.50	.494
50	2.635	2.406	.605



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
*173 Series (.283" Footprint) - Yellow Chromate **						
9	Male	173-09M-ND	5.34	4.60	3.13	173-009-111-141
9	Female	173-09F-ND	6.53	5.63	3.83	173-009-211-141
15	Male	173-15M-ND	9.54	8.23	5.60	173-015-111-141
15	Female	173-15F-ND	10.09	8.70	5.92	173-015-211-141
25	Male	173-25M-ND	9.63	8.30	5.65	173-025-111-141
25	Female	173-25F-ND	13.46	11.60	7.89	173-025-211-141
37	Male	173-37M-ND	13.11	11.30	7.69	173-037-111-141
37	Female	173-37F-ND	18.71	16.13	10.97	173-037-211-141
50	Male	173-50M-ND	16.18	13.95	9.49	173-050-111-141
50	Female	173-50F-ND	25.61	22.08	15.02	173-050-211-141
173 Series (.283" Footprint) - Tin						
9	Male	173-109M-ND	5.16	4.45	3.03	173-009-112-141
9	Female	173-109F-ND	12.47	10.75	7.31	173-009-212-141
15	Male	173-115M-ND	6.35	5.48	3.73	173-015-112-141
15	Female	173-115F-ND	12.24	10.55	7.18	173-015-212-141
25	Male	173-125M-ND	6.79	5.85	3.98	173-025-112-141
25	Female	173-125F-ND	17.37	14.98	10.19	173-025-212-141
37	Male	173-137M-ND	8.70	7.50	5.10	173-037-112-141
37	Female	173-137F-ND	15.52	13.38	9.10	173-037-212-141
50	Male	173-150M-ND	9.31	8.03	5.46	173-050-112-141
50	Female	173-150F-ND	24.13	20.80	14.15	173-050-212-141
174 Series (.370" Footprint) - Tin						
9	Male	174-109M-ND	4.96	4.28	2.91	174-009-112-141
9	Female	174-109F-ND	10.90	9.40	6.40	174-009-212-141
15	Male	174-115M-ND	6.12	5.28	3.59	174-015-112-141
15	Female	174-115F-ND	11.98	10.33	7.03	174-015-212-141
25	Male	174-125M-ND	6.58	5.68	3.86	174-025-112-141
25	Female	174-125F-ND	9.89	8.53	5.80	174-025-212-141
37	Male	174-137M-ND	8.18	7.05	4.80	174-037-112-141
37	Female	174-137F-ND	15.28	13.18	8.96	174-037-212-141
50	Male	174-150M-ND	9.11	7.85	5.34	174-050-112-141
50	Female	174-150F-ND	20.36	17.55	11.94	174-050-212-141
175 Series (.454" Footprint) - Tin						
9	Male	175-109M-ND	5.77	4.98	3.39	175-009-112-151
9	Female	175-109F-ND	13.51	11.65	7.93	175-009-212-151
15	Male	175-115M-ND	6.53	5.63	3.83	175-015-112-151
15	Female	175-115F-ND	15.75	13.58	9.24	175-015-212-151
25	Male	175-125M-ND	8.03	6.93	4.71	175-025-112-151
25	Female	175-125F-ND	19.78	17.05	11.60	175-025-212-151
37	Male	175-137M-ND	9.37	8.08	5.50	175-037-112-151
37	Female	175-137F-ND	17.17	14.80	10.07	175-037-212-151
50	Male	175-150M-ND	11.60	10.00	6.80	175-050-112-151
50	Female	175-150F-ND	25.78	22.23	15.12	175-050-212-151
176 Series (.545" Footprint) - Tin						
9	Male	176-109M-ND	4.96	4.28	2.91	176-009-112-151
9	Female	176-109F-ND	11.37	9.80	6.67	176-009-212-151
15	Male	176-115M-ND	6.12	5.28	3.59	176-015-112-151
15	Female	176-115F-ND	12.30	10.60	7.21	176-015-212-151
25	Male	176-125M-ND	6.61	5.70	3.88	176-025-112-151
25	Female	176-125F-ND	15.89	13.70	9.32	176-025-212-151
37	Male	176-137M-ND	8.18	7.05	4.80	176-037-112-151
37	Female	176-137F-ND	15.92	13.73	9.34	176-037-212-151
50	Male	176-150M-ND	9.25	7.98	5.43	176-050-112-151
50	Female	176-150F-ND	22.68	19.55	13.30	176-050-212-151

* Short mounting bracket attached with 4-40 female screw lock.

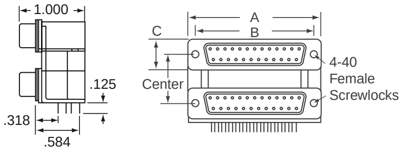
NorComp

Dual Port Right Angle D-Sub Connectors

178, 179 and 189 Series

Materials:
- **Shell:** Steel, zinc with tin plating
- **Contacts:** Gold flash over brass plating.
- **Insulator:** Glass-filled thermoplastic, UL 94V-0 rated, black .

Conn. Size	Dim. (Inch) A	B	C
9	1.204	.984	.494
15	1.535	1.312	.494
25	2.078	1.850	.494
37	2.724	2.500	.494



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
.625 Centers						
9/9	M/M	1009MM-ND	5.48	4.73	3.22	189-009-612-571
15/15	M/M	1015MM-ND	8.24	7.10	4.83	189-015-612-571
25/25	M/M	1025MM-ND	8.85	7.63	5.19	189-025-612-571
37/37	M/M	1037MM-ND	13.40	11.55	7.86	189-037-612-571
9/9	M/F	1009MF-ND	5.48	4.73	3.22	189-009-412-571
15/15	M/F	1015MF-ND	8.24	7.10	4.83	189-015-412-571
25/25	M/F	1025MF-ND	8.85	7.63	5.19	189-025-412-571
37/37	M/F	1037MF-ND	13.40	11.55	7.86	189-037-412-571
9/9	F/F	1009FF-ND	5.48	4.73	3.22	189-009-512-571
15/15	F/F	1015FF-ND	8.24	7.10	4.83	189-015-512-571
25/25	F/F	1025FF-ND	8.85	7.63	5.19	189-025-512-571
37/37	F/F	1037FF-ND	13.40	11.55	7.86	189-037-512-571
9/9	F/M	1009FM-ND	5.48	4.73	3.22	189-009-312-571
15/15	F/M	1015FM-ND	8.24	7.10	4.83	189-015-312-571
25/25	F/M	1025FM-ND	8.85	7.63	5.19	189-025-312-571
37/37	F/M	1037FM-ND	13.40	11.55	7.86	189-037-312-571

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
.750 Centers						
9/9	M/M	1109MM-ND	5.48	4.73	3.22	178-009-612-571
15/15	M/M	1115MM-ND	8.24	7.10	4.83	178-015-612-571
25/25	M/M	1125MM-ND	8.85	7.63	5.19	178-025-612-571
37/37	M/M	1137MM-ND	13.40	11.55	7.86	178-037-612-571
9/9	M/F	1109MF-ND	5.48	4.73	3.22	178-009-412-571
15/15	M/F	1115MF-ND	8.24	7.10	4.83	178-015-412-571
25/25	M/F	1125MF-ND	8.85	7.63	5.19	178-025-412-571
37/37	M/F	1137MF-ND	13.40	11.55	7.86	178-037-412-571
9/9	F/F	1109FF-ND	5.48	4.73	3.22	178-009-512-571
15/15	F/F	1115FF-ND	8.24	7.10	4.83	178-015-512-571
25/25	F/F	1125FF-ND	8.85	7.63	5.19	178-025-512-571
37/37	F/F	1137FF-ND	13.40	11.55	7.86	178-037-512-571
9/9	F/M	1109FM-ND	5.48	4.73	3.22	178-009-312-571
15/15	F/M	1115FM-ND	8.24	7.10	4.83	178-015-312-571
25/25	F/M	1125FM-ND	8.85	7.63	5.19	178-025-312-571
37/37	F/M	1137FM-ND	13.40	11.55	7.86	178-037-312-571
.900 Centers						
9/9	M/M	1209MM-ND	5.48	4.73	3.22	179-009-612-571
15/15	M/M	1215MM-ND	8.24	7.10	4.83	179-015-612-571
25/25	M/M	1225MM-ND	8.85	7.63	5.19	179-025-612-571
37/37	M/M	1237MM-ND	13.40	11.55	7.86	179-037-612-571
9/9	M/F	1209MF-ND	5.48	4.73	3.22	179-009-412-571
15/15	M/F	1215MF-ND	8.24	7.10	4.83	179-015-412-571
25/25	M/F	1225MF-ND	8.85	7.63	5.19	179-025-412-571
37/37	M/F	1237MF-ND	13.40	11.55	7.86	179-037-412-571
9/9	F/F	1209FF-ND	5.48	4.73	3.22	179-009-512-571
15/15	F/F	1215FF-ND	8.24	7.10	4.83	179-015-512-571
25/25	F/F	1225FF-ND	8.85	7.63	5.19	179-025-512-571
37/37	F/F	1237FF-ND	13.40	11.55	7.86	179-037-512-571
9/9	F/M	1209FM-ND	5.48	4.73	3.22	179-009-312-571
15/15	F/M	1215FM-ND	8.24	7.10	4.83	179-015-312-571
25/25	F/M	1225FM-ND	8.85	7.63	5.19	179-025-312-571
37/37	F/M	1237FM-ND	13.40	11.55	7.86	179-037-312-571

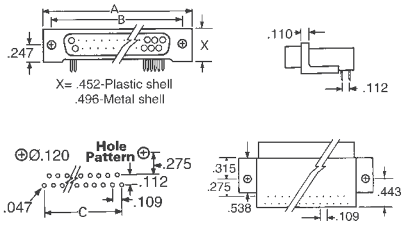
NorComp

Right Angle D-Sub Connectors

177 Series

Materials:
- **Shell:** Steel, zinc with tin plating; or plastic
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Stamped Contacts:** Cupronickel alloys
- **Plating:** Gold over nickel on mating area, tin/lead on solder tails

Connector Size	Dimensions (Inch) A	B	C
9	1.228	.984	.436
15	1.556	1.312	.763
25	2.100	1.852	1.308
37	2.742	2.500	1.962



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
177 Series (.590 Footprint) (Metal Shell with Inside Ground Straps and .120" Diameter Hole)						
9	Male	177-709M-ND	7.19	6.20	4.22	177-009-112-161
9	Female	177-709F-ND	7.83	6.75	4.59	177-009-212-161
15	Male	177-715M-ND	8.29	7.15	4.87	177-015-112-161
15	Female	177-715F-ND	8.87	7.65	5.21	177-015-212-161
25	Male	177-725M-ND	9.28	8.00	5.44	177-025-112-161
25	Female	177-725F-ND	10.47	9.03	6.14	177-025-212-161
37	Male	177-737M-ND	10.44	9.00	6.12	177-037-112-161
37	Female	177-737F-ND	13.05	11.25	7.65	177-037-212-161
177 Series (.590" Footprint) (Metal Shell with Inside Ground Straps and 4-40 Flush Insert)						
9	Male	309M-ND	4.96	4.28	2.91	177-009-112-171
9	Female	309F-ND	5.48	4.73	3.22	177-009-212-171
15	Male	315M-ND	5.80	5.00	3.40	177-015-112-171
15	Female	315F-ND	6.38	5.50	3.74	177-015-212-171
25	Male	325M-ND	6.99	6.03	4.10	177-025-112-171
25	Female	325F-ND	7.71	6.65	4.53	177-025-212-171
37	Male	337M-ND	9.02	7.78	5.29	177-037-112-171
37	Female	337F-ND	9.89	8.53	5.80	177-037-212-171
177 Series (.590 Footprint) (Metal Shell with Inside Ground Straps and 4-40 Hex Standoff)						
9	Male	177-809M-ND	5.22	4.50	3.06	177-009-112-181
9	Female	177-809F-ND	5.74	4.95	3.37	177-009-212-181
15	Male	177-815M-ND	6.26	5.40	3.68	177-015-112-181
15	Female	177-815F-ND	6.67	5.75	3.91	177-015-212-181
25	Male	177-825M-ND	7.19	6.20	4.22	177-025-112-181
25	Female	177-825F-ND	7.95	6.85	4.66	177-025-212-181
37	Male	177-837M-ND	8.70	7.50	5.10	177-037-112-181
37	Female	177-837F-ND	10.15	8.75	5.95	177-037-212-181
177 Series (.590 Footprint) (Plastic Shell with .120" Diameter Hole)						
9	Male	177-509M-ND	2.76	2.38	1.62	177-009-110-061
9	Female	177-509F-ND	3.05	2.63	1.79	177-009-210-061
15	Male	177-515M-ND	3.51	3.03	2.06	177-015-110-061
15	Female	177-515F-ND	4.58	3.95	2.69	177-015-210-061
25	Male	177-525M-ND	5.19	4.48	3.05	177-025-110-061
25	Female	177-525F-ND	5.25	4.53	3.08	177-025-210-061
37	Male	177-537M-ND	6.41	5.53	3.76	177-037-110-061
37	Female	177-537F-ND	6.90	5.95	4.05	177-037-210-061
177 Series (.590 Footprint) (Plastic Shell with 4-40 Flush Insert)						
9	Male	409M-ND	4.06	3.50	2.38	177-009-110-071
9	Female	409F-ND	4.61	3.98	2.71	177-009-210-071
15	Male	415M-ND	4.96	4.28	2.91	177-015-110-071
15	Female	415F-ND	5.48	4.73	3.22	177-015-210-071
25	Male	425M-ND	6.29	5.43	3.69	177-025-110-071
25	Female	425F-ND	6.93	5.98	4.07	177-025-210-071
37	Male	437M-ND	7.60	6.55	4.46	177-037-110-071
37	Female	437F-ND	8.38	7.23	4.92	177-037-210-071
177 Series (.590 Footprint) (Plastic Shell with 4-40 Hex Standoff)						
9	Male	177-609M-ND	4.50	3.88	2.64	177-009-110-081
9	Female	177-609F-ND	5.02	4.33	2.95	177-009-210-081
15	Male	177-615M-ND	5.22	4.50	3.06	177-015-110-081
15	Female	177-615F-ND	5.95	5.13	3.49	177-015-210-081
25	Male	177-625M-ND	6.55	5.65	3.85	177-025-110-081
25	Female	177-625F-ND	7.05	6.08	4.14	177-025-210-081
37	Male	177-637M-ND	7.63	6.58	4.48	177-037-110-081
37	Female	177-637F-ND	8.79	7.58	5.16	177-037-210-081

NorComp

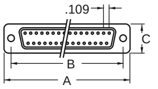
Right Angle D-Sub Connectors

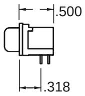
182 Economy Series

Materials:
- **Shell:** Steel, tin plating
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Stamped Contacts:** Brass
- **Plating:** Gold flash on entire contact

Connector Size	Dim. (Inch)		
	A	B	C
9	1.213	.984	.494
15	1.541	1.312	.494
25	2.088	1.852	.494
37	2.729	2.500	.494

182 Series





No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
182 Series (.318" Footprint) (Metal Shell with Inside Ground Straps and .120" Diameter Hole)						
9	Male	182-709M-ND	1.83	1.58	1.08	182-009-112-161
9	Female	182-709F-ND	1.91	1.65	1.13	182-009-212-161
15	Male	182-715M-ND	2.12	1.83	1.25	182-015-112-161
15	Female	182-715F-ND	2.29	1.98	1.35	182-015-212-161
25	Male	182-725M-ND	2.61	2.25	1.53	182-025-112-161
25	Female	182-725F-ND	2.70	2.33	1.59	182-025-212-161
37	Male	182-737M-ND	3.65	3.15	2.15	182-037-112-161
37	Female	182-737F-ND	3.80	3.28	2.23	182-037-212-161
182 Series (.318" Footprint) (Metal Shell with Inside Ground Straps and 4-40 Flush Insert)						
9	Male	182-909M-ND	1.83	1.58	1.08	182-009-112-171
9	Female	182-909F-ND	1.91	1.65	1.13	182-009-212-171
15	Male	182-915M-ND	2.12	1.83	1.25	182-015-112-171
15	Female	182-915F-ND	2.29	1.98	1.35	182-015-212-171
25	Male	182-925M-ND	2.61	2.25	1.53	182-025-112-171
25	Female	182-925F-ND	2.70	2.33	1.59	182-025-212-171
37	Male	182-937M-ND	3.65	3.15	2.15	182-037-112-171
37	Female	182-937F-ND	3.80	3.28	2.23	182-037-212-171
182 Series (.318" Footprint) (Metal Shell with Inside Ground Straps and 4-40 Hex Standoff)						
9	Male	182-809M-ND	1.83	1.58	1.08	182-009-112-181
9	Female	182-809F-ND	1.91	1.65	1.13	182-009-212-181
15	Male	182-815M-ND	2.20	1.90	1.30	182-015-112-181
15	Female	182-815F-ND	2.47	2.13	1.45	182-015-212-181
25	Male	182-825M-ND	2.78	2.40	1.64	182-025-112-181
25	Female	182-825F-ND	2.87	2.48	1.69	182-025-212-181
37	Male	182-837M-ND	3.94	3.40	2.32	182-037-112-181
37	Female	182-837F-ND	3.97	3.43	2.33	182-037-212-181
182 Series (.318" Footprint) (Metal Shell Fork Board Locks in Front Hole and 4-40 Flush Insert)						
9	Male	182-09M-ND	1.60	1.38	.94	182-009-112-531
9	Female	182-09F-ND	1.68	1.45	.99	182-009-212-531
15	Male	182-15M-ND	1.83	1.58	1.08	182-015-112-531
15	Female	182-15F-ND	1.97	1.70	1.16	182-015-212-531
25	Male	182-25M-ND	2.12	1.83	1.25	182-025-112-531
25	Female	182-25F-ND	2.23	1.93	1.31	182-025-212-531
37	Male	182-37M-ND	3.51	3.03	2.06	182-037-112-531
37	Female	182-37F-ND	3.65	3.15	2.15	182-037-212-531

NorComp

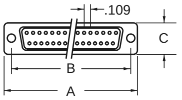
Right Angle D-Sub Connectors

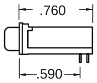
183 Economy Series

Materials:
- **Shell:** Steel, tin plating
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Stamped Contacts:** Brass
- **Plating:** Gold flash on entire contact

Connector Size	Dim. (Inch)		
	A	B	C
9	1.213	.984	.494
15	1.541	1.312	.494
25	2.088	1.852	.494
37	2.729	2.500	.494

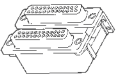
183 Series





No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
183 Series (.590" Footprint) (Metal Shell with Inside Ground Straps and .120" Diameter Hole)						
9	Male	183-709M-ND	1.62	1.40	.96	183-009-112-161
9	Female	183-709F-ND	1.71	1.48	1.01	183-009-212-161
15	Male	183-715M-ND	2.32	2.00	1.36	183-015-112-161
15	Female	183-715F-ND	2.41	2.08	1.42	183-015-212-161
25	Male	183-725M-ND	2.78	2.40	1.64	183-025-112-161
25	Female	183-725F-ND	2.87	2.48	1.69	183-025-212-161
37	Male	183-737M-ND	4.21	3.63	2.47	183-037-112-161
37	Female	183-737F-ND	4.35	3.75	2.55	183-037-212-161
183 Series (.590" Footprint) (Metal Shell with Inside Ground Straps and 4-40 Flush Insert)						
9	Male	183-909M-ND	1.62	1.40	.96	183-009-112-171
9	Female	183-909F-ND	1.71	1.48	1.01	183-009-212-171
15	Male	183-915M-ND	2.32	2.00	1.36	183-015-112-171
15	Female	183-915F-ND	2.41	2.08	1.42	183-015-212-171
25	Male	183-925M-ND	2.78	2.40	1.64	183-025-112-171
25	Female	183-925F-ND	2.87	2.48	1.69	183-025-212-171
37	Male	183-937M-ND	4.21	3.63	2.47	183-037-112-171
37	Female	183-937F-ND	4.35	3.75	2.55	183-037-212-171
183 Series (.590" Footprint) (Metal Shell with Inside Ground Straps and 4-40 Hex Standoff)						
9	Male	183-809M-ND	1.94	1.68	1.14	183-009-112-181
9	Female	183-809F-ND	2.03	1.75	1.19	183-009-212-181
15	Male	183-815M-ND	2.52	2.18	1.48	183-015-112-181
15	Female	183-815F-ND	2.64	2.28	1.55	183-015-212-181
25	Male	183-825M-ND	2.90	2.50	1.70	183-025-112-181
25	Female	183-825F-ND	2.99	2.58	1.76	183-025-212-181
37	Male	183-837M-ND	4.44	3.83	2.61	183-037-112-181
37	Female	183-837F-ND	4.64	4.00	2.72	183-037-212-181
183 Series (.590" Footprint) (Metal Shell Fork Board Locks in Front Hole and 4-40 Flush Insert)						
9	Male	183-09M-ND	1.48	1.28	.87	183-009-112-531
9	Female	183-09F-ND	1.48	1.28	.87	183-009-212-531
15	Male	183-15M-ND	1.94	1.68	1.14	183-015-112-531
15	Female	183-15F-ND	2.20	1.90	1.30	183-015-212-531
25	Male	183-25M-ND	2.26	1.95	1.33	183-025-112-531
25	Female	183-25F-ND	2.49	2.15	1.47	183-025-212-531
37	Male	183-37M-ND	3.63	3.13	2.13	183-037-112-531
37	Female	183-37F-ND	3.63	3.13	2.13	183-037-212-531

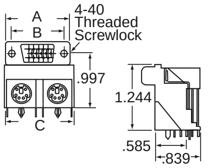
Dual-Port D-Sub Connector



T2325-ND **$12.71/1**
$109.60/10
$745.28/100

999 Series - High Density over (2)PS/2

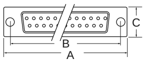
Materials:
- **Shell:** Steel
- **Insulator:** PBT UL rated 94V-0
- **Contacts:** Brass
- **Platings:** Gold Flash contacts, Nickel plated shells



Conn. Size	Dimensions (Inch)		
	A	B	C
15	1.213	.984	1.284

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
15	Female	999-H15F-ND	7.98	6.88	4.68	999-H15-PS2-571

NorComp

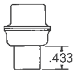


Series 170 Crimp and Poke D-Sub Connectors

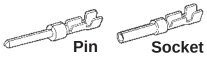
Conn. Size	Dimensions (Inch)		
	A	B	C
9	1.213	.984	.496
15	1.541	1.312	.496
25	2.087	1.852	.496
37	2.732	2.500	.496
50	2.638	2.406	.602

Uses Snap-In Contacts (sold separately)

Features: • Available in 5 industry sizes/positions • Low cost commercial version of military standard • Tin or Yellow Chromate shells • Allows for easy loading of only the positions required using Crimp and Snap-in contacts • Tin-plated connector shells have indents to provide grounding and additional retention • Nylon insulator has a minimum contact retention of 10 lbs. • Contact current rating: 5 amps **Materials:** • Shell: Steel, zinc-plated with yellow chromate or bright tin plating • Insulator: Glass-filled thermoplastic, UL rated 94V-0



Snap-In Contacts for Crimp D-Sub Connectors



Features: Low cost and high performance stamped contacts features insulation support for increased holding power • Contact range: 20-28 AWG • Contacts are commercial quality stamped and are compatible with industry tooling. **Material:** • Male Pins: Brass • Female Pins: Phosphor bronze

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Tin Shells – Crimp D-Sub Standard						
9	Male	709M-ND	.67	.58	.40	170-009-172-000
9	Female	709F-ND	.67	.58	.40	170-009-272-000
15	Male	715M-ND	.78	.68	.46	170-015-172-000
15	Female	715F-ND	.86	.75	.51	170-015-272-000
25	Male	725M-ND	.78	.68	.46	170-025-172-000
25	Female	725F-ND	.84	.72	.49	170-025-272-000
37	Male	737M-ND	1.54	1.33	.91	170-037-172-000
37	Female	737F-ND	1.62	1.40	.96	170-037-272-000
50	Male	750M-ND	2.08	1.79	1.22	170-050-172-000
50	Female	750F-ND	2.12	1.83	1.25	170-050-272-000
Tin Shell Crimp with .065" Clinch Nuts, Board Side						
9	Male	5709M-ND	1.71	1.48	1.01	170-009-172-010
9	Female	5709F-ND	1.71	1.48	1.01	170-009-272-010
15	Male	5715M-ND	1.83	1.58	1.08	170-015-172-010
15	Female	5715F-ND	1.94	1.68	1.14	170-015-272-010
25	Male	5725M-ND	1.83	1.58	1.08	170-025-172-010
25	Female	5725F-ND	1.89	1.63	1.11	170-025-272-010
37	Male	5737M-ND	2.76	2.38	1.62	170-037-172-010
37	Female	5737F-ND	2.73	2.35	1.60	170-037-272-010
50	Male	5750M-ND	3.54	3.05	2.08	170-050-172-010
50	Female	5750F-ND	3.19	2.75	1.87	170-050-272-010
Tin Shell Crimp with .250" Clinch Nuts, Board Side						
9	Male	6709M-ND	1.71	1.48	1.01	170-009-172-020
9	Female	6709F-ND	1.71	1.48	1.01	170-009-272-020
15	Male	6715M-ND	1.83	1.58	1.08	170-015-172-020
15	Female	6715F-ND	1.94	1.68	1.14	170-015-272-020
25	Male	6725M-ND	1.83	1.58	1.08	170-025-172-020
25	Female	6725F-ND	1.89	1.63	1.11	170-025-272-020
37	Male	6737M-ND	2.76	2.38	1.62	170-037-172-020
37	Female	6737F-ND	2.73	2.35	1.60	170-037-272-020
50	Male	6750M-ND	3.54	3.05	2.08	170-050-172-020
50	Female	6750F-ND	3.19	2.75	1.87	170-050-272-020
Tin Shell Crimp with .250" Clinch Nuts, Mating Side						
9	Male	7709M-ND	1.71	1.48	1.01	170-009-172-030
9	Female	7709F-ND	1.71	1.48	1.01	170-009-272-030
15	Male	7715M-ND	1.83	1.58	1.08	170-015-172-030
15	Female	7715F-ND	1.94	1.68	1.14	170-015-272-030
25	Male	7725M-ND	1.83	1.58	1.08	170-025-172-030
25	Female	7725F-ND	1.89	1.63	1.11	170-025-272-030
37	Male	7737M-ND	2.76	2.38	1.62	170-037-172-030
37	Female	7737F-ND	2.73	2.35	1.60	170-037-272-030
50	Male	7750M-ND	3.54	3.05	2.08	170-050-172-030
50	Female	7750F-ND	3.19	2.75	1.87	170-050-272-030
Yellow Chromate – Crimp D-Sub Standard						
9	Male	1709M-ND	1.25	1.08	.74	170-009-171-000
9	Female	1709F-ND	1.36	1.18	.80	170-009-271-000
15	Male	1715M-ND	1.39	1.20	.82	170-015-171-000
15	Female	1715F-ND	1.36	1.18	.80	170-015-271-000
25	Male	1725M-ND	1.45	1.25	.85	170-025-171-000
25	Female	1725F-ND	1.51	1.30	.89	170-025-271-000
37	Male	1737M-ND	1.89	1.63	1.11	170-037-171-000
37	Female	1737F-ND	2.00	1.73	1.18	170-037-271-000
50	Male	1750M-ND	1.74	1.50	1.02	170-050-171-000
50	Female	1750F-ND	1.89	1.63	1.11	170-050-271-000
Yellow Chromate Crimp with .065" Clinch Nuts, Board Side						
9	Male	2709M-ND	2.12	1.83	1.25	170-009-171-010
9	Female	2709F-ND	2.23	1.93	1.31	170-009-271-010
15	Male	2715M-ND	2.26	1.95	1.33	170-015-171-010
15	Female	2715F-ND	2.23	1.93	1.31	170-015-271-010
25	Male	2725M-ND	2.32	2.00	1.36	170-025-171-010
25	Female	2725F-ND	2.38	2.05	1.40	170-025-271-010
37	Male	2737M-ND	2.76	2.38	1.62	170-037-171-010
37	Female	2737F-ND	2.87	2.48	1.69	170-037-271-010
50	Male	2750M-ND	2.61	2.25	1.53	170-050-171-010
50	Female	2750F-ND	2.76	2.38	1.62	170-050-271-010
Yellow Chromate Crimp with .250" Clinch Nuts, Board Side						
9	Male	3709M-ND	2.12	1.83	1.25	170-009-171-020
9	Female	3709F-ND	2.23	1.93	1.31	170-009-271-020
15	Male	3715M-ND	2.26	1.95	1.33	170-015-171-020
15	Female	3715F-ND	2.23	1.93	1.31	170-015-271-020
25	Male	3725M-ND	2.32	2.00	1.36	170-025-171-020
25	Female	3725F-ND	2.38	2.05	1.40	170-025-271-020
37	Male	3737M-ND	2.76	2.38	1.62	170-037-171-020
37	Female	3737F-ND	2.87	2.48	1.69	170-037-271-020
50	Male	3750M-ND	2.61	2.25	1.53	170-050-171-020
50	Female	3750F-ND	2.76	2.38	1.62	170-050-271-020
Yellow Chromate Crimp with .250" Clinch Nuts, Mating Side						
9	Male	4709M-ND	2.12	1.83	1.25	170-009-171-030
9	Female	4709F-ND	2.23	1.93	1.31	170-009-271-030
15	Male	4715M-ND	2.26	1.95	1.33	170-015-171-030
15	Female	4715F-ND	2.23	1.93	1.31	170-015-271-030
25	Male	4725M-ND	2.32	2.00	1.36	170-025-171-030
25	Female	4725F-ND	2.38	2.05	1.40	170-025-271-030
37	Male	4737M-ND	2.76	2.38	1.62	170-037-171-030
37	Female	4737F-ND	2.87	2.48	1.69	170-037-271-030
50	Male	4750M-ND	2.61	2.25	1.53	170-050-171-030
50	Female	4750F-ND	2.76	2.38	1.62	170-050-271-030
Contacts						
—	Pin	82P-ND	—	.16	.11	170-001-170-002
—	Socket	82S-ND	—	.18	.13	170-002-170-002
—	Pin	82PSF-ND*	—	.12	.08	170-001-170-001
—	Socket	82SSF-ND*	—	.14	.10	170-002-170-001

Tools

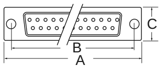
Desciption	Digi-Key Part No.	Price Each	NorComp Part No.
Insertion/Removal Tool	T1010-ND	2.93	170-901-170-000
Hand Crimping Tool for Stamped Contacts	T1000S-ND	199.50	170-701-170-000

*Pins and Sockets are selectively gold plated

NORCOMP

D-Sub Connectors

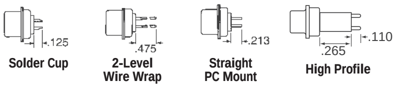
Series 171 – Stamped Contacts
Series 172 – Machined Contacts



Features: • Available in 5 industry sizes/positions • Non-removable contacts • Tin or Yellow Chromate shells available • Tin shells have indents to provide grounding and additional retention • Screw machine contacts offer high reliability. **Materials:** • Shell: Steel, zinc plated with yellow chromate or bright tin over nickel • Insulator: Glass-filled thermoplastic, UL rated 94V-O • Contacts: Brass male pins; Phosphor bronze female pins • Plating: Gold flash on entire contact

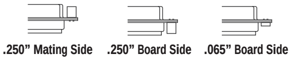
Conn. Size	Dim. (Inch) A	B	C
9	1.213	.984	.494
15	1.541	1.312	.494
25	2.088	1.852	.494
37	2.729	2.500	.494
50	2.635	2.406	.605

Original D-Subminiature

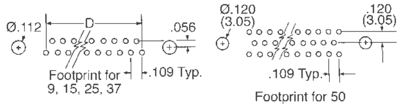


Clinch Nut Hardware

Clinch Nuts: Brass, clear zinc plating with 4-40 threads



Hole Patterns



Series 171 — Stamped Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Tin Shells – Solder Cup						
9	Male	209M-ND	.63	.55	.38	171-009-102-001
9	Female	209F-ND	.67	.58	.40	171-009-202-001
15	Male	215M-ND	.92	.79	.54	171-015-102-001
15	Female	215F-ND	1.13	.98	.67	171-015-202-001
25	Male	225M-ND	1.08	.93	.64	171-025-102-001
25	Female	225F-ND	1.26	1.09	.75	171-025-202-001
37	Male	237M-ND	1.94	1.68	1.14	171-037-102-001
37	Female	237F-ND	2.29	1.98	1.35	171-037-202-001
50	Male	250M-ND	4.07	3.51	2.39	171-050-102-001
50	Female	250F-ND	4.42	3.81	2.60	171-050-202-001
Tin Shells with .065" Clinch Nuts, Board Side – Solder Cup						
9	Male	1209M-ND	1.57	1.35	.92	171-009-102-011
9	Female	1209F-ND	1.62	1.40	.96	171-009-202-011
15	Male	1215M-ND	1.91	1.65	1.13	171-015-102-011
15	Female	1215F-ND	2.15	1.85	1.26	171-015-202-011
25	Male	1225M-ND	2.09	1.80	1.23	171-025-102-011
25	Female	1225F-ND	2.32	2.00	1.36	171-025-202-011
37	Male	1237M-ND	3.05	2.63	1.79	171-037-102-011
37	Female	1237F-ND	3.48	3.00	2.04	171-037-202-011
50	Male	1250M-ND	5.42	4.68	3.18	171-050-102-011
50	Female	1250F-ND	5.83	5.03	3.42	171-050-202-011
Tin Shells with .250" Clinch Nuts, Board Side –Solder Cup						
9	Male	2209M-ND	1.57	1.35	.92	171-009-102-021
9	Female	2209F-ND	1.62	1.40	.96	171-009-202-021
15	Male	2215M-ND	1.91	1.65	1.13	171-015-102-021
15	Female	2215F-ND	2.15	1.85	1.26	171-015-202-021
25	Male	2225M-ND	2.09	1.80	1.23	171-025-102-021
25	Female	2225F-ND	2.32	2.00	1.36	171-025-202-021
37	Male	2237M-ND	3.05	2.63	1.79	171-037-102-021
37	Female	2237F-ND	3.48	3.00	2.04	171-037-202-021
50	Male	2250M-ND	5.42	4.68	3.18	171-050-102-021
50	Female	2250F-ND	5.83	5.03	3.42	171-050-202-021
Tin Shells with .250" Clinch Nuts, Mating Side – Solder Cup						
9	Male	3209M-ND	1.57	1.35	.92	171-009-102-031
9	Female	3209F-ND	1.62	1.40	.96	171-009-202-031
15	Male	3215M-ND	1.91	1.65	1.13	171-015-102-031
15	Female	3215F-ND	2.15	1.85	1.26	171-015-202-031
25	Male	3225M-ND	2.09	1.80	1.23	171-025-102-031
25	Female	3225F-ND	2.32	2.00	1.36	171-025-202-031
37	Male	3237M-ND	3.05	2.63	1.79	171-037-102-031
37	Female	3237F-ND	3.48	3.00	2.04	171-037-202-031
50	Male	3250M-ND	5.42	4.68	3.18	171-050-102-031
50	Female	3250F-ND	5.83	5.03	3.42	171-050-202-031
Tin Shells – Dip Solder						
9	Male	4209M-ND	1.13	.98	.67	171-009-112-001
9	Female	4209F-ND	1.28	1.10	.75	171-009-212-001
15	Male	4215M-ND	1.80	1.55	1.06	171-015-112-001
15	Female	4215F-ND	1.39	1.20	.82	171-015-212-001
25	Male	4225M-ND	2.52	2.18	1.48	171-025-112-001
25	Female	4225F-ND	1.77	1.53	1.04	171-025-212-001
37	Male	4237M-ND	4.32	3.73	2.54	171-037-112-001
37	Female	4237F-ND	2.87	2.48	1.69	171-037-212-001
50	Male	4250M-ND	4.55	3.93	2.67	171-050-112-001
50	Female	4250F-ND	4.38	3.78	2.57	171-050-212-001
Tin Shells with .065" Clinch Nuts, Board Side –Dip Solder						
9	Male	5209M-ND	2.00	1.73	1.18	171-009-112-011
9	Female	5209F-ND	2.15	1.85	1.26	171-009-212-011
15	Male	5215M-ND	2.67	2.30	1.57	171-015-112-011
15	Female	5215F-ND	2.26	1.95	1.33	171-015-212-011
25	Male	5225M-ND	3.39	2.93	1.99	171-025-112-011
25	Female	5225F-ND	2.64	2.28	1.55	171-025-212-011
37	Male	5237M-ND	5.19	4.48	3.05	171-037-112-011
37	Female	5237F-ND	3.74	3.23	2.20	171-037-212-011
50	Male	5250M-ND	5.42	4.68	3.18	171-050-112-011
50	Female	5250F-ND	5.25	4.53	3.08	171-050-212-011
Tin Shells with .250" Clinch Nuts, Board Side – Dip Solder						
9	Male	6209M-ND	2.00	1.73	1.18	171-009-112-021
9	Female	6209F-ND	2.15	1.85	1.26	171-009-212-021
15	Male	6215M-ND	2.67	2.30	1.57	171-015-112-021
15	Female	6215F-ND	2.26	1.95	1.33	171-015-212-021
25	Male	6225M-ND	3.39	2.93	1.99	171-025-112-021
25	Female	6225F-ND	2.64	2.28	1.55	171-025-212-021
37	Male	6237M-ND	5.19	4.48	3.05	171-037-112-021
37	Female	6237F-ND	3.74	3.23	2.20	171-037-212-021
50	Male	6250M-ND	5.42	4.68	3.18	171-050-112-021
50	Female	6250F-ND	5.25	4.53	3.08	171-050-212-021
Tin Shells with .250" Clinch Nuts, Mating Side – Dip Solder						
9	Male	7209M-ND	2.00	1.73	1.18	171-009-112-031
9	Female	7209F-ND	2.15	1.85	1.26	171-009-212-031
15	Male	7215M-ND	2.67	2.30	1.57	171-015-112-031
15	Female	7215F-ND	2.26	1.95	1.33	171-015-212-031
25	Male	7225M-ND	3.39	2.93	1.99	171-025-112-031
25	Female	7225F-ND	2.64	2.28	1.55	171-025-212-031
37	Male	7237M-ND	5.19	4.48	3.05	171-037-112-031
37	Female	7237F-ND	3.74	3.23	2.20	171-037-212-031
50	Male	7250M-ND	5.42	4.68	3.18	171-050-112-031
50	Female	7250F-ND	5.25	4.53	3.08	171-050-212-031

Series 172 — Machined Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Tin Shells – Solder Cup						
9	Male	1109M-ND	2.09	1.80	1.23	172-009-102-001
9	Female	1109F-ND	2.41	2.08	1.42	172-009-202-001
15	Male	1115M-ND	2.67	2.30	1.57	172-015-102-001
15	Female	1115F-ND	3.22	2.78	1.89	172-015-202-001
25	Male	1125M-ND	3.45	2.98	2.03	172-025-102-001
25	Female	1125F-ND	4.76	4.10	2.79	172-025-202-001
37	Male	1137M-ND	4.61	3.98	2.71	172-037-102-001
37	Female	1137F-ND	6.44	5.55	3.78	172-037-202-001
50	Male	1150M-ND	5.83	5.03	3.42	172-050-102-001
50	Female	1150F-ND	8.61	7.43	5.05	172-050-202-001
Tin Shells with .065" Clinch Nuts, Board Side – Solder Cup						
9	Male	2109M-ND	2.96	2.55	1.74	172-009-102-011
9	Female	2109F-ND	3.28	2.83	1.93	172-009-202-011
15	Male	2115M-ND	3.54	3.05	2.08	172-015-102-011
15	Female	2115F-ND	4.09	3.53	2.40	172-015-202-011
25	Male	2125M-ND	4.32	3.73	2.54	172-025-102-011
25	Female	2125F-ND	5.63	4.85	3.30	172-025-202-011
37	Male	2137M-ND	5.48	4.73	3.22	172-037-102-011
37	Female	2137F-ND	7.31	6.30	4.29	172-037-202-011
50	Male	2150M-ND	6.70	5.78	3.93	172-050-102-011
50	Female	2150F-ND	9.48	8.18	5.56	172-050-202-011
Tin Shells with .250" Clinch Nuts, Board Side – Solder Cup						
9	Male	3109M-ND	2.96	2.55	1.74	172-009-102-021
9	Female	3109F-ND	3.28	2.83	1.93	172-009-202-021
15	Male	3115M-ND	3.54	3.05	2.08	172-015-102-021
15	Female	3115F-ND	4.09	3.53	2.40	172-015-202-021
25	Male	3125M-ND	4.32	3.73	2.54	172-025-102-021
25	Female	3125F-ND	5.63	4.85	3.30	172-025-202-021
37	Male	3137M-ND	5.48	4.73	3.22	172-037-102-021
37	Female	3137F-ND	7.31	6.30	4.29	172-037-202-021
50	Male	3150M-ND	6.70	5.78	3.93	172-050-102-021
50	Female	3150F-ND	9.48	8.18	5.56	172-050-202-021
Tin Shells with .250" Clinch Nuts, Mating Side – Solder Cup						
9	Male	4109M-ND	2.96	2.55	1.74	172-009-102-031
9	Female	4109F-ND	3.28	2.83	1.93	172-009-202-031
15	Male	4115M-ND	3.54	3.05	2.08	172-015-102-031
15	Female	4115F-ND	4.09	3.53	2.40	172-015-202-031
25	Male	4125M-ND	4.32	3.73	2.54	172-025-102-031
25	Female	4125F-ND	5.63	4.85	3.30	172-025-202-031
37	Male	4137M-ND	5.48	4.73	3.22	172-037-102-031
37	Female	4137F-ND	7.31	6.30	4.29	172-037-202-031
50	Male	4150M-ND	6.70	5.78	3.93	172-050-102-031
50	Female	4150F-ND	9.48	8.18	5.56	172-050-202-031
Yellow Chromate – Solder Cup						
9	Male	109M-ND	1.75	1.51	1.03	172-009-101-001
9	Female	109F-ND	2.13	1.84	1.25	172-009-201-001
15	Male	115M-ND	2.26	1.96	1.33	172-015-101-001
15	Female	115F-ND	2.99	2.58	1.76	172-015-201-001
25	Male	125M-ND	3.05	2.63	1.79	172-025-101-001
25	Female	125F-ND	4.42	3.81	2.60	172-025-201-001
37	Male	137M-ND	4.42	3.81	2.60	172-037-101-001
37	Female	137F-ND	6.14	5.30	3.60	172-037-201-001
50	Male	150M-ND	4.87	4.20	2.86	172-050-101-001
50	Female	150F-ND	7.41	6.39	4.35	172-050-201-001
Yellow Chromate with .065" Clinch Nuts, Board Side – Solder Cup						
9	Male	5109M-ND	2.84	2.45	1.67	172-009-101-011
9	Female	5109F-ND	3.28	2.83	1.93	172-009-201-011
15	Male	5115M-ND	3.42	2.95	2.01	172-015-101-011
15	Female	5115F-ND	4.23	3.65	2.49	172-015-201-011
25	Male	5125M-ND	4.29	3.70	2.52	172-025-101-011
25	Female	5125F-ND	5.83	5.03	3.42	172-025-201-011
37	Male	5137M-ND	5.83	5.03	3.42	172-037-101-011
37	Female	5137F-ND	7.77	6.70	4.56	172-037-201-011
50	Male	5150M-ND	6.47	5.58	3.80	172-050-101-011
50	Female	5150F-ND	9.16	7.90	5.38	172-050-201-011
Yellow Chromate with .250" Clinch Nuts, Board Side – Solder Cup						
9	Male	6109M-ND	2.84	2.45	1.67	172-009-101-021
9	Female	6109F-ND	3.28	2.83	1.93	172-009-201-021
15	Male	6115M-ND	3.42	2.95	2.01	172-015-101-021
15	Female	6115F-ND	4.23	3.65	2.49	172-015-201-021
25	Male	6125M-ND	4.29	3.70	2.52	172-025-101-021
25	Female	6125F-ND	5.83	5.03	3.42	172-025-201-021
37	Male	6137M-ND	5.83	5.03	3.42	172-037-101-021
37	Female	6137F-ND	7.77	6.70	4.56	172-037-201-021
50	Male	6150M-ND	6.47	5.58	3.80	172-050-101-021
50	Female	6150F-ND	9.16	7.90	5.38	172-050-201-021
Yellow Chromate with .250" Clinch Nuts, Mating Side – Solder Cup						
9	Male	7109M-ND	2.84	2.45	1.67	172-009-101-031
9	Female	7109F-ND	3.28	2.83	1.93	172-009-201-031
15	Male	7115M-ND	3.42	2.95	2.01	172-015-101-031
15	Female	7115F-ND	4.23	3.65	2.49	172-015-201-031
25	Male	7125M-ND	4.29	3.70	2.52	172-025-101-031
25	Female	7125F-ND	5.83	5.03	3.42	172-025-201-031
37	Male	7137M-ND	5.83	5.03	3.42	172-037-101-031
37	Female	7137F-ND	7.77	6.70	4.56	172-037-201-031
50	Male	7150M-ND	6.47	5.58	3.80	172-050-101-031
50	Female	7150F-ND	9.16	7.90	5.38	172-050-201-031
Straight PCB Mount						
9	Male	509M-ND	1.73	1.49	1.02	172-009-111-001
9	Female	509F-ND	2.51	2.16	1.47	172-009-211-001
15	Male	515M-ND	2.21	1.91	1.30	172-015-111-001
15	Female	515F-ND	3.50	3.02	2.06	172-015-211-001
25	Male	525M-ND	3.07	2.65	1.81	172-025-111-001
25	Female	525F-ND	4.81	4.15	2.83	172-025-211-001
37	Male	537M-ND	4.55	3.93	2.67	172-037-111-001
37	Female	537F-ND	6.96	6.00	4.08	172-037-211-001
50	Male	550M-ND	5.39	4.65	3.17	172-050-111-001
50	Female	550F-ND	9.43	8.13	5.53	172-050-211-001
Tin Shells – Dip Solder						
9	Male	1509MN-ND	2.18	1.88	1.28	172-009-112-001
9	Female	1509FN-ND	2.73	2.35	1.60	172-009-212-001
15	Male	1515MN-ND	2.84	2.45	1.67	172-015-112-001
15	Female	1515FN-ND	3.80	3.28	2.23	172-015-212-001
25	Male	1525MN-ND	3.63	3.13	2.13	172-025-112-001
25	Female	1525FN-ND	5.66	4.88	3.32	172-025-212-001
37	Male	1537MN-ND	4.96	4.28	2.91	172-037-112-001
37	Female	1537FN-ND	7.98	6.88	4.68	172-037-212-001
50	Male	1550MN-ND	6.26	5.40	3.68	172-050-112-001
50	Female	1550FN-ND	10.70	9.23	6.28	172-050-212-001
Tin Shells with .065" Clinch Nuts, Board Side – Dip Solder						
9	Male	2509M-ND	3.05	2.63	1.79	172-009-112-011
9	Female	2509F-ND	3.60	3.10	2.11	172-009-212-011
15	Male	2515M-ND	3.71	3.20	2.18	172-015-112-011
15	Female	2515F-ND	4.67	4.03	2.74	172-015-212-011
25	Male	2525M-ND	4.50	3.88	2.64	172-025-112-011
25	Female	2525F-ND	6.53	5.63	3.83	172-025-212-011
37	Male	2537M-ND	5.83	5.03	3.42	172-037-112-011
37	Female	2537F-ND	8.85	7.63	5.19	172-037-212-011
50	Male	2550M-ND	7.13	6.15	4.19	172-050-112-011
50	Female	2550F-ND	11.57	9.98	6.79	172-050-212-011
Tin Shells with .250" Clinch Nuts, Board Side – Dip Solder						
9	Male	3509M-ND	3.05	2.63	1.79	172-009-112-021
9	Female	3509F-ND	3.60	3.10	2.11	172-009-212-021
15	Male	3515M-ND	3.71	3.20	2.18	172-015-112-021
15	Female	3515F-ND	4.67	4.03	2.74	172-015-212-021
25	Male	3525M-ND	4.50	3.88	2.64	172-025-112-021
25	Female	3525F-ND	6.53	5.63	3.83	172-025-212-021
37	Male	3537M-ND	5.83	5.03	3.42	172-037-112-021
37	Female	3537F-ND	8.85	7.63	5.19	172-037-212-021
50	Male	3550M-ND	7.13	6.15	4.19	172-050-112-021
50	Female	3550F-ND	11.57	9.98	6.79	172-050-212-021
Tin Shells with .250" Clinch Nuts, Mating Side – Dip Solder						
9	Male	4509M-ND	3.05	2.63	1.79	172-009-112-031
9	Female	4509F-ND	3.60	3.10	2.11	172-009-212-031
15	Male	4515M-ND	3.71	3.20	2.18	172-015-112-031
15	Female	4515F-ND	4.67	4.03	2.74	172-015-212-031
25	Male	4525M-ND	4.50	3.88	2.64	172-025-112-031
25	Female	4525F-ND	6.53	5.63	3.83	172-025-212-031
37	Male	4537M-ND	5.83	5.03	3.42	172-037-112-031
37	Female	4537F-ND	8.85	7.63	5.19	172-037-212-031
50	Male	4550M-ND	7.13	6.15	4.19	172-050-112-031
50	Female	4550F-ND	11.57	9.98	6.79	172-050-212-031
Yellow Chromate with .065" Clinch Nuts, Board Side – Dip Solder						
9	Male	5509M-ND	2.84	2.45	1.67	172-009-111-011
9	Female	5509F-ND	3.68	3.18	2.16	172-009-211-011
15	Male	5515M-ND	3.36	2.90	1.98	172-015-111-011
15	Female	5515F-ND	4.52	3.90	2.66	172-015-211-011
25	Male	5525M-ND	4.21	3.63	2.47	172-025-111-011
25	Female	5525F-ND	6.24	5.38	3.66	172-025-211-011
37	Male	5537M-ND	6.00	5.18	3.52	172-037-111-011
37	Female	5537F-ND	8.67	7.48	5.09	172-037-211-011
50	Male	5550M-ND	6.96	6.00	4.08	172-050-111-011
50	Female	5550F-ND	11.25	9.70	6.60	172-050-211-011
Yellow Chromate with .250" Clinch Nuts, Board Side – Dip Solder						
9	Male	6509M-ND	2.84	2.45	1.67	172-009-111-021
9	Female	6509F-ND	3.68	3.18	2.16	172-009-211-021
15	Male	6515M-ND	3.36	2.90	1.98	172-015-111-021
15	Female	6515F-ND	4.52	3.90	2.66	172-015-211-021
25	Male	6525M-ND	4.21	3.63	2.47	172-025-111-021
25	Female	6525F-ND	6.24	5.38	3.66	172-025-211-021
37	Male	6537M-ND	6.00	5.18	3.52	172-037-111-021
37	Female	6537F-ND	8.67	7.48	5.09	172-037-211-021
50	Male	6550M-ND	6.96	6.00	4.08	172-050-111-021
50	Female	6550F-ND	11.25	9.70	6.60	172-050-211-021
Yellow Chromate with .250" Clinch Nuts, Mating Side – Dip Solder						
9	Male	7509M-ND	2.84	2.45	1.67	172-009-111-031
9	Female	7509F-ND	3.68	3.18	2.16	172-009-211-031

(Continued)

NorComp D-Sub Connectors *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Male	7515M-ND	4.28	3.70	2.52	172-015-111-031
15	Female	7515F-ND	4.52	3.90	2.66	172-015-211-031
25	Male	7525M-ND	4.21	3.63	2.47	172-025-111-031
25	Female	7525F-ND	6.24	5.38	3.66	172-025-211-031
37	Male	7537M-ND	6.00	5.18	3.52	172-037-111-031
37	Female	7537F-ND	8.67	7.48	5.09	172-037-211-031
50	Male	7550M-ND	6.96	6.00	4.08	172-050-111-031
50	Female	7550F-ND	11.25	9.70	6.60	172-050-211-031
Yellow Chromate with .065" Clinch Nuts, Board Side – Wire Wrap						
9	Male	5609M-ND	3.77	3.25	2.21	172-009-141-011
9	Female	5609F-ND	4.44	3.83	2.61	172-009-241-011
15	Male	5615M-ND	5.86	5.05	3.44	172-015-141-011
15	Female	5615F-ND	6.35	5.48	3.73	172-015-241-011
25	Male	5625M-ND	7.48	6.45	4.39	172-025-141-011
25	Female	5625F-ND	9.22	7.95	5.41	172-025-241-011
37	Male	5637M-ND	10.38	8.95	6.09	172-037-141-011
37	Female	5637F-ND	13.08	11.28	7.67	172-037-241-011
50	Male	5650M-ND	13.49	11.63	7.91	172-050-141-011
50	Female	5650F-ND	17.08	14.73	10.02	172-050-241-011
Yellow Chromate with .250" Clinch Nuts, Board Side – Wire Wrap						
9	Male	6609M-ND	3.77	3.25	2.21	172-009-141-021
9	Female	6609F-ND	4.44	3.83	2.61	172-009-241-021
15	Male	6615M-ND	5.86	5.05	3.44	172-015-141-021
15	Female	6615F-ND	6.35	5.48	3.73	172-015-241-021
25	Male	6625M-ND	7.48	6.45	4.39	172-025-141-021
25	Female	6625F-ND	9.22	7.95	5.41	172-025-241-021
37	Male	6637M-ND	10.38	8.95	6.09	172-037-141-021
37	Female	6637F-ND	13.08	11.28	7.67	172-037-241-021
50	Male	6650M-ND	13.49	11.63	7.91	172-050-141-021
50	Female	6650F-ND	17.08	14.73	10.02	172-050-241-021
Yellow Chromate with .250" Clinch Nuts, Mating Side – Wire Wrap						
9	Male	7609M-ND	3.77	3.25	2.21	172-009-141-031
9	Female	7609F-ND	4.44	3.83	2.61	172-009-241-031
15	Male	7615M-ND	5.86	5.05	3.44	172-015-141-031
15	Female	7615F-ND	6.35	5.48	3.73	172-015-241-031
25	Male	7625M-ND	7.48	6.45	4.39	172-025-141-031
25	Female	7625F-ND	9.22	7.95	5.41	172-025-241-031
37	Male	7637M-ND	10.38	8.95	6.09	172-037-141-031
37	Female	7637F-ND	13.08	11.28	7.67	172-037-241-031
50	Male	7650M-ND	13.49	11.63	7.91	172-050-141-031
50	Female	7650F-ND	17.08	14.73	10.02	172-050-241-031
Yellow Chromate Shells – Wire Wrap						
9	Male	609M-ND	2.58	2.23	1.52	172-009-141-001
9	Female	609F-ND	3.15	2.72	1.85	172-009-241-001
15	Male	615M-ND	3.83	3.30	2.25	172-015-141-001
15	Female	615F-ND	4.71	4.07	2.77	172-015-241-001
25	Male	625M-ND	6.55	5.65	3.85	172-025-141-001
25	Female	625F-ND	7.27	6.27	4.27	172-025-241-001
37	Male	637M-ND	8.38	7.23	4.92	172-037-141-001
37	Female	637F-ND	10.88	9.38	6.38	172-037-241-001
50	Male	650M-ND	10.32	8.90	6.05	172-050-141-001
50	Female	650F-ND	13.87	11.96	8.14	172-050-241-001
Tin Shells – Wire Wrap						
9	Male	1609MN-ND	3.07	2.65	1.81	172-009-142-001
9	Female	1609FN-ND	3.71	3.20	2.18	172-009-242-001
15	Male	1615MN-ND	4.73	4.08	2.78	172-015-142-001
15	Female	1615FN-ND	5.54	4.78	3.25	172-015-242-001
25	Male	1625MN-ND	6.82	5.88	4.00	172-025-142-001
25	Female	1625FN-ND	10.96	9.45	6.43	172-025-242-001
37	Male	1637MN-ND	9.74	8.40	5.72	172-037-142-001
37	Female	1637FN-ND	12.21	10.53	7.16	172-037-242-001
50	Male	1650MN-ND	12.76	11.00	7.48	172-050-142-001
50	Female	1650FN-ND	16.65	14.35	9.76	172-050-242-001
Tin Shells with .065" Clinch Nuts, Board Side – Wire Wrap						
9	Male	2609M-ND	3.94	3.40	2.32	172-009-142-011
9	Female	2609F-ND	4.58	3.95	2.69	172-009-242-011
15	Male	2615M-ND	5.60	4.83	3.29	172-015-142-011
15	Female	2615F-ND	6.41	5.53	3.76	172-015-242-011
25	Male	2625M-ND	7.69	6.63	4.51	172-025-142-011
25	Female	2625F-ND	11.83	10.20	6.94	172-025-242-011
37	Male	2637M-ND	10.61	9.15	6.23	172-037-142-011
37	Female	2637F-ND	13.08	11.28	7.67	172-037-242-011
50	Male	2650M-ND	13.63	11.75	7.99	172-050-142-011
50	Female	2650F-ND	17.52	15.10	10.27	172-050-242-011
Tin Shells with .250" Clinch Nuts, Board Side – Wire Wrap						
9	Male	3609M-ND	3.94	3.40	2.32	172-009-142-021
9	Female	3609F-ND	4.58	3.95	2.69	172-009-242-021
15	Male	3615M-ND	5.60	4.83	3.29	172-015-142-021
15	Female	3615F-ND	6.41	5.53	3.76	172-015-242-021
25	Male	3625M-ND	7.69	6.63	4.51	172-025-142-021
25	Female	3625F-ND	11.83	10.20	6.94	172-025-242-021
37	Male	3637M-ND	10.61	9.15	6.23	172-037-142-021
37	Female	3637F-ND	13.08	11.28	7.67	172-037-242-021
50	Male	3650M-ND	13.63	11.75	7.99	172-050-142-021
50	Female	3650F-ND	17.52	15.10	10.27	172-050-242-021
Tin Shells with .250" Clinch Nuts, Mating Side – Wire Wrap						
9	Male	4609M-ND	3.94	3.40	2.32	172-009-142-031
9	Female	4609F-ND	4.58	3.95	2.69	172-009-242-031
15	Male	4615M-ND	5.60	4.83	3.29	172-015-142-031
15	Female	4615F-ND	6.41	5.53	3.76	172-015-242-031
25	Male	4625M-ND	7.69	6.63	4.51	172-025-142-031
25	Female	4625F-ND	11.83	10.20	6.94	172-025-242-031
37	Male	4637M-ND	10.61	9.15	6.23	172-037-142-031
37	Female	4637F-ND	13.08	11.28	7.67	172-037-242-031
50	Male	4650M-ND	13.63	11.75	7.99	172-050-142-031
50	Female	4650F-ND	17.52	15.10	10.27	172-050-242-031

Series 172 High Profile — Machined Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Yellow Chromate						
9	Male	8609M-ND	3.77	3.25	2.21	172-009-181-001
9	Female	8609F-ND	4.41	3.80	2.59	172-009-281-001
15	Male	8615M-ND	5.42	4.68	3.18	172-015-181-001
15	Female	8615F-ND	6.90	5.95	4.05	172-015-281-001
25	Male	8625M-ND	8.03	6.93	4.71	172-025-181-001
25	Female	8625F-ND	10.67	9.20	6.26	172-025-281-001
37	Male	8637M-ND	11.48	9.90	6.74	172-037-181-001
37	Female	8637F-ND	15.28	13.18	8.96	172-037-281-001
50	Male	8650M-ND	14.65	12.63	8.59	172-050-181-001
50	Female	8650F-ND	19.95	17.20	11.70	172-050-281-001
Yellow Chromate w/ .065" Clinch Nuts, Board Side						
9	Male	9609M-ND	4.64	4.00	2.72	172-009-181-011
9	Female	9609F-ND	5.28	4.55	3.10	172-009-281-011
15	Male	9615M-ND	6.29	5.43	3.69	172-015-181-011
15	Female	9615F-ND	7.77	6.70	4.56	172-015-281-011
25	Male	9625M-ND	8.90	7.68	5.22	172-025-181-011
25	Female	9625F-ND	11.54	9.95	6.77	172-025-281-011
37	Male	9637M-ND	12.35	10.65	7.25	172-037-181-011
37	Female	9637F-ND	16.15	13.93	9.47	172-037-281-011
50	Male	9650M-ND	15.52	13.38	9.10	172-050-181-011
50	Female	9650F-ND	20.82	17.95	12.21	172-050-281-011
Yellow Chromate w/ .250" Clinch Nuts, Board Side						
9	Male	10609M-ND	4.64	4.00	2.72	172-009-181-021
9	Female	10609F-ND	5.28	4.55	3.10	172-009-281-021
15	Male	10615M-ND	6.29	5.43	3.69	172-015-181-021
15	Female	10615F-ND	7.77	6.70	4.56	172-015-281-021
25	Male	10625M-ND	8.90	7.68	5.22	172-025-181-021
25	Female	10625F-ND	11.54	9.95	6.77	172-025-281-021
37	Male	10637M-ND	12.35	10.65	7.25	172-037-181-021
37	Female	10637F-ND	16.15	13.93	9.47	172-037-281-021
50	Male	10650M-ND	15.52	13.38	9.10	172-050-181-021
50	Female	10650F-ND	20.82	17.95	12.21	172-050-281-021
Yellow Chromate w/ .250" Clinch Nuts, Mating Side						
9	Male	11609M-ND	4.64	4.00	2.72	172-009-181-031
9	Female	11609F-ND	5.28	4.55	3.10	172-009-281-031
15	Male	11615M-ND	6.29	5.43	3.69	172-015-181-031
15	Female	11615F-ND	7.77	6.70	4.56	172-015-281-031
25	Male	11625M-ND	8.90	7.68	5.22	172-025-181-031
25	Female	11625F-ND	11.54	9.95	6.77	172-025-281-031
37	Male	11637M-ND	12.35	10.65	7.25	172-037-181-031
37	Female	11637F-ND	16.15	13.93	9.47	172-037-281-031
50	Male	11650M-ND	15.52	13.38	9.10	172-050-181-031
50	Female	11650F-ND	20.82	17.95	12.21	172-050-281-031
Tin Shells						
9	Male	12609M-ND	3.31	2.85	1.94	172-009-182-001
9	Female	12609F-ND	4.35	3.75	2.55	172-009-282-001
15	Male	12615M-ND	4.90	4.23	2.88	172-015-182-001
15	Female	12615F-ND	6.44	5.55	3.78	172-015-282-001
25	Male	12625M-ND	7.48	6.45	4.39	172-025-182-001
25	Female	12625F-ND	10.06	8.68	5.90	172-025-282-001
37	Male	12637M-ND	15.11	13.03	8.86	172-037-182-001
37	Female	12637F-ND	14.85	12.80	8.71	172-037-282-001
50	Male	12650M-ND	14.88	12.83	8.73	172-050-182-001
50	Female	12650F-ND	19.95	17.20	11.70	172-050-282-001
Tin Shells with .065" Clinch Nuts, Board Side						
9	Male	13609M-ND	4.18	3.60	2.45	172-009-182-011
9	Female	13609F-ND	5.22	4.50	3.06	172-009-282-011
15	Male	13615M-ND	5.77	4.98	3.39	172-015-182-011
15	Female	13615F-ND	7.31	6.30	4.29	172-015-282-011
25	Male	13625M-ND	8.35	7.20	4.90	172-025-182-011
25	Female	13625F-ND	10.93	9.43	6.41	172-025-282-011
37	Male	13637M-ND	15.98	13.78	9.37	172-037-182-011
37	Female	13637F-ND	15.72	13.55	9.22	172-037-282-011
50	Male	13650M-ND	15.75	13.58	9.24	172-050-182-011
50	Female	13650F-ND	20.82	17.95	12.21	172-050-282-011
Tin Shells with .250" Clinch Nuts, Board Side						
9	Male	14609M-ND	4.18	3.60	2.45	172-009-182-021
9	Female	14609F-ND	5.22	4.50	3.06	172-009-282-021
15	Male	14615M-ND	5.77	4.98	3.39	172-015-182-021
15	Female	14615F-ND	7.31	6.30	4.29	172-015-282-021
25	Male	14625M-ND	8.35	7.20	4.90	172-025-182-021
25	Female	14625F-ND	10.93	9.43	6.41	172-025-282-021
37	Male	14637M-ND	15.98	13.78	9.37	172-037-182-021
37	Female	14637F-ND	15.72	13.55	9.22	172-037-282-021
50	Male	14650M-ND	15.75	13.58	9.24	172-050-182-021
50	Female	14650F-ND	20.82	17.95	12.21	172-050-282-021
Tin Shells with .250" Clinch Nuts, Mating Side						
9	Male	15609M-ND	4.18	3.60	2.45	172-009-182-031
9	Female	15609F-ND	5.22	4.50	3.06	172-009-282-031
15	Male	15615M-ND	5.77	4.98	3.39	172-015-182-031
15	Female	15615F-ND	7.31	6.30	4.29	172-015-282-031
25	Male	15625M-ND	8.35	7.20	4.90	172-025-182-031
25	Female	15625F-ND	10.93	9.43	6.41	172-025-282-031
37	Male	15637M-ND	15.98	13.78	9.37	172-037-182-031
37	Female	15637F-ND	15.72	13.55	9.22	172-037-282-031
50	Male	15650M-ND	15.75	13.58	9.24	172-050-182-031
50	Female	15650F-ND	20.82	17.95	12.21	172-050-282-031
TOOLS						
Hand Crimp Tool for Screw Machined Contacts		T1000M-ND	452.20			170-702-170-000

Parallel Interface Connectors (Centronics Type)

Fig. 1

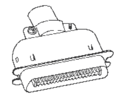


Fig. 2

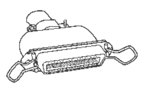


Fig. 3

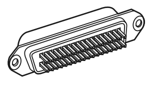


Fig. 4

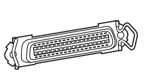


Fig. 5

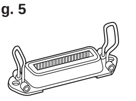


Fig. 6

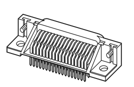
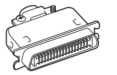


Fig. 7



Material: Insulator: Glass filled thermoplastic, UL rated 94V-0. Shell: Nickel plated steel. Contacts: Copper alloy, 10µ gold over 30µ nickel.

Male Cable Plug (Fig. 1):
• Compatible with industry standard • Solder Cup • Complete with cable boot, shell and hardware

Female Cable Receptacle (Fig. 2):
• Compatible with industry standard • Complete with spring latches and cable boot • Solder Cup • Can be used as panel mount

Panel Mount Male Plug (Fig. 3):
• 0.103" (2.62mm) Mounting hole accepts #3 screw (not included) • Compatible with industry standard • Solder Cup • Insulator color: Blue

Panel Mount Female Receptacle (Fig. 4):
• Compatible with industry standard • Complete with spring latches • Solder Cup • Insulator color: Blue

Straight DIP Solder (Fig. 5):
• For standard .062" (1.57mm) PC mount • Latch locks standard • Insulator color: Blue

Right Angle PCB Mount (Fig. 6):
• Compatible with industry standard • Metal shell for EMI/RFI shielding • Insulator color: Blue

Discrete Wire IDC Solderless (Fig. 7):
• Compatible with standard terminating tools • Quick solderless termination for #24 or 26 AWG • Insulator color: Gray

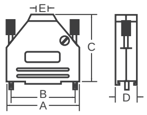
Fig.	No. of Con-tacts	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
1	14	Male	T1501-ND	3.48	3.00	2.04	110-014-103-001
	24	Male	T1502-ND	5.66	4.88	3.32	110-024-103-001
	36	Male	T1503-ND	3.56	3.07	2.09	110-036-103-001
	50	Male	T1504-ND	6.30	5.44	3.70	110-050-103-001
2	14	Female	T1507-ND	4.00	3.45	2.35	110-014-203-001
	24	Female	T1508-ND	4.45	3.84	2.61	110-024-203-001
	36	Female	T1509-ND	4.66	4.02	2.74	110-036-203-001
	50	Female	T1510-ND	7.00	6.04	4.11	110-050-203-001
3	14	Male	1014M-ND	2.51	2.16	1.47	111-014-103-001
	24	Male	1024M-ND	2.69	2.33	1.58	111-024-103-001
	36	Male	1036M-ND	2.61	2.26	1.54	111-036-103-001
	50	Male	1050M-ND	3.96	3.42	2.33	111-050-103-001
4	14	Female	1014F-ND	2.64	2.28	1.55	111-014-203-001
	24	Female	1024F-ND	4.26	3.68	2.50	111-024-203-001
	36	Female	1036F-ND	3.05	2.63	1.79	111-036-203-001
	50	Female	1050F-ND	4.93	4.25	2.89	111-050-203-001
5	14	Male	1014PM-ND	2.97	2.57	1.75	111-014-113-001
	24	Male	1024PM-ND	4.52	3.90	2.66	111-024-113-001
	36	Male	1036PM-ND	4.88	4.21	2.86	111-036-113-001
	50	Male	1050PM-ND	5.39	4.65	3.17	111-050-113-001
	14	Female	1014PF-ND	2.75	2.37	1.61	111-014-213-001
	24	Female	1024PF-ND	2.97	2.57	1.75	111-024-213-001
	36	Female	1036PF-ND	4.38	3.78	2.57	111-036-213-001
	50	Female	1050PF-ND	6.78	5.85	3.98	111-050-213-001
6	14	Male	1014RM-ND	3.18	2.74	1.87	112-014-113-001
	24	Male	1024RM-ND	3.58	3.09	2.10	112-024-113-001
	36	Male	1036RM-ND	5.31	4.58	3.12	112-036-113-001
	50	Male	1050RM-ND	6.39	5.51	3.75	112-050-113-001
	14	Female	1014RF-ND	3.69	3.19	2.17	112-014-213-001
	24	Female	1024RF-ND	3.66	3.16	2.15	112-024-213-001
	36	Female	1036RF-ND	4.66	4.02	2.74	112-036-213-001
	50	Female	1050RF-ND	6.68	5.76	3.92	112-050-213-001
7	36	Male	1036CM-ND	10.18	8.78	5.97	110-036-193-001
	36	Female	1036CF-ND	8.53	7.35	5.00	110-036-293-001

NORCOMP

D-Sub Backshells

970 Series — Straight/Top Entry: • Die Cast: Lightweight zinc. Plating: Nickel over copper or black • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 • Hardware: Nickel plated steel

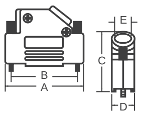
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.228	.984	1.571	.610	.465
15	1.555	1.312	1.634	.610	.465
25	2.102	1.852	1.913	.610	.465
37	2.744	2.500	2.110	.610	.465



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Nickel	970-09N-ND	5.80	5.00	3.40	970-009-030-121
15		970-15N-ND	6.90	5.95	4.05	970-015-030-121
25		970-25N-ND	6.90	5.95	4.05	970-025-030-121
37		970-37N-ND	10.56	9.10	6.19	970-037-030-121
9	Black Die Cast	970-09BC-ND	7.34	6.33	4.31	970-009-040-011
15		970-15BC-ND	8.44	7.28	4.95	970-015-040-011
25		970-25BC-ND	8.44	7.28	4.95	970-025-040-011
37		970-37BC-ND	11.22	9.68	6.58	970-037-040-011
9	Metalized Plastic	970-09MP-ND	5.42	4.68	3.18	970-009-020-121
15		970-15MP-ND	5.63	4.85	3.30	970-015-020-121
25		970-25MP-ND	5.86	5.05	3.44	970-025-020-121
37		970-37MP-ND	6.53	5.63	3.83	970-037-020-121
9	Black Plastic	970-09BP-ND	2.64	2.28	1.55	970-009-010-011
15		970-15BP-ND	2.64	2.28	1.55	970-015-010-011
25		970-25BP-ND	2.76	2.38	1.62	970-025-010-011
37		970-37BP-ND	2.87	2.48	1.69	970-037-010-011

971 Series — 45° Entry: • Die Cast: Lightweight zinc. Plating: Nickel over copper or black • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 • Hardware: Nickel plated steel

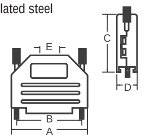
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.220	.984	1.496	.610	.465
15	1.595	1.312	1.618	.610	.465
25	2.114	1.852	1.646	.610	.465
37	2.748	2.500	1.646	.610	.465



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Nickel	971-09N45-ND	5.80	5.00	3.40	971-009-030-121
15		971-15N45-ND	6.90	5.95	4.05	971-015-030-121
25		971-25N45-ND	6.90	5.95	4.05	971-025-030-121
37		971-37N45-ND	10.56	9.10	6.19	971-037-030-121
9	Black Die Cast	971-09CB45-ND	7.34	6.33	4.31	971-009-040-011
15		971-15CB45-ND	8.44	7.28	4.95	971-015-040-011
25		971-25CB45-ND	8.44	7.28	4.95	971-025-040-011
37		971-37CB45-ND	11.22	9.68	6.58	971-037-040-011
9	Metalized Plastic	971-09MP45-ND	5.42	4.68	3.18	971-009-020-121
15		971-15MP45-ND	5.63	4.85	3.30	971-015-020-121
25		971-25MP45-ND	5.86	5.05	3.44	971-025-020-121
37		971-37MP45-ND	6.53	5.63	3.83	971-037-020-121
9	Black Plastic	971-09BP45-ND	2.64	2.28	1.55	971-009-010-011
15		971-15BP45-ND	2.64	2.28	1.55	971-015-010-011
25		971-25BP45-ND	2.76	2.38	1.62	971-025-010-011
37		971-37BP45-ND	2.87	2.48	1.69	971-037-010-011

972 Series — Colored Clam Shell Style: • High temperature plastic UL rated 94V-2 (various colors) • Hardware: Nickel plated steel

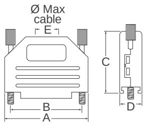
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.378	.984	2.106	.669	.331
15	1.614	1.312	2.106	.630	.472
25	2.145	1.852	2.106	.591	.472
37	2.795	2.500	2.106	.669	.551



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Black Plastic	972-15B-ND	2.64	2.28	1.55	972-015-010-011
15	Grey Plastic	972-15G-ND	2.64	2.28	1.55	972-015-010-031
37		972-37G-ND	3.10	2.68	1.82	972-037-010-031
9	Red Plastic	972-09R-ND	2.64	2.28	1.55	972-009-010-061
15		972-15R-ND	2.28	1.82	1.60	972-015-010-061
25		972-25R-ND	2.64	2.28	1.55	972-025-010-061
37		972-37R-ND	3.10	2.68	1.82	972-037-010-061
15	Yellow Plastic	972-15Y-ND	2.64	2.28	1.55	972-015-010-081
25		972-25Y-ND	2.64	2.28	1.55	972-025-010-081
37		972-37Y-ND	3.10	2.68	1.82	972-037-010-081

972 Series — Slim-Line Clam Shell Style: • High temperature ABS plastic UL94V-2

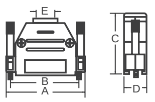
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.339	.591	.453
15	1.575	1.312	1.339	.591	.453
25	2.106	1.852	1.575	.591	.453
37	2.795	2.500	1.575	.591	.453



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Grey Plastic	972-09SG-ND	3.16	2.73	1.86	972-009-01S-031
15		972-15SG-ND	3.34	2.88	1.96	972-015-01S-031
25		972-25SG-ND	3.51	3.03	2.06	972-025-01S-031
37		972-37SG-ND	3.68	3.18	2.16	972-037-01S-031
9	Black Plastic	972-09SB-ND	3.16	2.73	1.86	972-009-01S-011
15		972-15SB-ND	3.34	2.88	1.96	972-015-01S-011
25		972-25SB-ND	3.51	3.03	2.06	972-025-01S-011
37		972-37SB-ND	3.68	3.18	2.16	972-037-01S-011

973 Series — Straight/Top Entry: • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 (black) • Hardware: Nickel plated steel

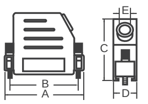
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.221	.598	.335
15	1.575	1.312	1.378	.598	.335
25	2.106	1.852	1.496	.598	.433
37	2.756	2.500	1.575	.598	.433



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	973-09MP-ND	7.25	6.25	4.25	973-009-020-121
15		973-15MP-ND	7.51	6.48	4.41	973-015-020-121
25		973-25MP-ND	7.69	6.63	4.51	973-025-020-121
37		973-37MP-ND	10.41	8.98	6.11	973-037-020-121
9	Black Plastic	973-09BP-ND	3.86	3.33	2.27	973-009-010-011
15		973-15BP-ND	4.03	3.48	2.37	973-015-010-011
25		973-25BP-ND	4.23	3.65	2.49	973-025-010-011
37		973-37BP-ND	5.13	4.43	3.01	973-037-010-011

974 Series — 40° Entry: • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-0 (black) • Hardware: Nickel plated steel

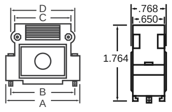
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.457	.598	.335
15	1.575	1.312	1.457	.598	.335
25	2.106	1.852	1.614	.598	.433
37	2.756	2.500	1.614	.598	.433



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	974-09MP40-ND	7.25	6.25	4.25	974-009-020-121
15		974-15MP40-ND	7.51	6.48	4.41	974-015-020-121
25		974-25MP40-ND	7.69	6.63	4.51	974-025-020-121
37		974-37MP40-ND	10.41	8.98	6.11	974-037-020-121
9	Black Plastic	974-09BP40-ND	3.86	3.33	2.27	974-009-010-011
15		974-15BP40-ND	4.03	3.48	2.37	974-015-010-011
25		974-25BP40-ND	4.23	3.65	2.49	974-025-010-011
37		974-37BP40-ND	5.13	4.43	3.01	974-037-010-011

976 Series — Plastic, Flat Ribbon: • ABS high temperature plastic 94HB. Complete with 4-40 mating screws, housing screws, and housing nuts.

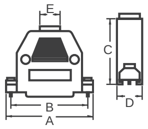
Conn. Size	Dimensions (Inch) A	B	C	D
9	1.319	.984	.758	.946
15	1.622	1.312	1.102	1.289
25	2.157	1.852	1.642	1.874
37	2.815	2.500	2.283	2.470



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Plastic Grey	976-09RP-ND	1.39	1.20	.82	976-009-010-031
15		976-15RP-ND	1.57	1.35	.92	976-015-010-031
25		976-25RP-ND	1.86	1.60	1.09	976-025-010-031
37		976-37RP-ND	1.97	1.70	1.16	976-037-010-031

977 Series — Plastic or Metalized: • Available in both plain plastic and metalized for EMI/RFI suppression • Over 60 dB shielding • Materials: Shell – Thermoplastic polyester; UL rated 94V-0; Screw locks – brass; EMI/RFI plating – Electroplated with nickel over copper

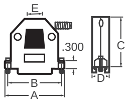
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.213	.984	1.594	.646	.275
15	1.563	1.312	1.453	.646	.400
25	2.165	1.852	1.752	.646	.435
37	2.736	2.500	2.096	.984	.535
50	2.640	2.406	1.750	.731	.450



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Shielded Metalized Plastic (for EMI/RFI)	909GM-ND	.75	.65	.45	977-009-020-121
15		915GM-ND	.89	.77	.53	977-015-020-121
25		925GM-ND	.89	.77	.53	977-025-020-121
37		937GM-ND	2.23	1.93	1.31	977-037-020-121
50		950GM-ND	1.75	1.51	1.03	977-050-020-121
9	Plain Plastic	909GP-ND	.54	.47	.32	977-009-010-031
15		915GP-ND	.67	.58	.40	977-015-010-031
25		925GP-ND	.73	.63	.43	977-025-010-031
37		937GP-ND	1.00	.86	.59	977-037-010-031
50		950GP-ND	1.51	1.30	.89	977-050-010-031

978 Series — Plastic or Metalized: • Available in both plain plastic and metalized for EMI/RFI suppression • Over 60 dB shielding • EMI/RFI Plating - Electroplated with nickel over copper • Materials: Shell – Thermoplastic polyester; UL rated 94V-0; Screw locks – brass

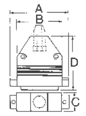
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.220	.984	1.693	.655	.276
15	1.535	1.312	1.693	.655	.315
25	2.118	1.852	1.929	.655	.374
37	2.756	2.500	1.929	.655	.433
50	2.650	2.406	1.909	.655	.551



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Un-shielded	909C-ND	1.10	.96	.65	978-009-010-031
15		915C-ND	1.19	1.03	.70	978-015-010-031
25		925C-ND	1.24	1.07	.73	978-025-010-031
37		937C-ND	1.73	1.49	1.02	978-037-010-031
50		950C-ND	1.75	1.51	1.03	978-050-010-031
9	Shielded	909CA-ND	1.37	1.19	.81	978-009-020-121
15		915CA-ND	1.54	1.33	.91	978-015-020-121
25		925CA-ND	1.67	1.44	.98	978-025-020-121

979 Series — Die-Cast Zinc: • Rubber grommet/ strain relief for complete EMI/RFI shielding (over 70db) • Solid die-cast ZINC construction • Supplied complete with rubber grommet kit and male screw locks.

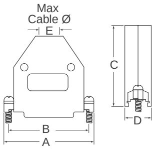
Conn. Size	Dimensions (Inch) A	B	C	D	Max. Cable Dia.
9	1.22	.79	.63	1.9	.42
15	1.55	1.11	.63	1.9	.42
25	2.10	1.64	.63	1.9	.42
37	2.73	2.27	.63	1.9	.43
50	2.64	2.18	.77	1.9	.73



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Zinc	909Z-ND	2.64	2.28	1.55	979-009-030-121
15		915Z-ND	3.10	2.68	1.82	979-015-030-121
25		925Z-ND	3.91	3.37	2.29	979-025-030-121
37		937Z-ND	5.28	4.55	3.10	979-037-030-121
50		950Z-ND	7.22	6.23	4.24	979-050-030-121

979 Series — Plastic or Metalized Backshell: • ABS high temperature plastic UL94HB • Chrome plating

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.232	.984	1.913	.656	.354
15	1.555	1.312	1.895	.669	.374
25	2.100	1.852	1.900	.655	.397
37	2.748	2.500	1.900	.655	.512
50	2.697	2.406	1.900	.770	.512



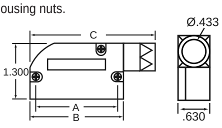
No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Plastic Grey	979-09PG-ND	1.22	1.05	.72	979-009-010-031
15		979-15PG-ND	1.31	1.13	.77	979-015-010-031
25		979-25PG-ND	1.39	1.20	.82	979-025-010-031
37		979-37PG-ND	2.61	2.25	1.53	979-037-010-031
50		979-50PG-ND	2.78	2.40	1.64	979-050-010-031
9	Metalized Plastic	979-09MP-ND	1.71	1.48	1.01	979-009-020-121
15		979-15MP-ND	1.86	1.60	1.09	979-015-020-121
25		979-25MP-ND	2.12	1.83	1.25	979-025-020-121
37		979-37MP-ND	3.57	3.08	2.10	979-037-020-121
50		979-50MP-ND	3.86	3.33	2.27	979-050-020-121

(Continued)

NORCOMP D-Sub Backshells *(Cont.)*

980 / 981 Series — Ethernet: • **Material:** Die-cast zinc alloy, nickel plated. Complete with housing screws and housing nuts.

Conn. Size	Dimensions (Inch) A	B	C
9	.984	1.240	1.850
15	1.312	1.555	2.323
25	1.852	2.106	2.835

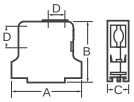


(Series 981 - Right Angle shown)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Series 980 Straight	915ES-ND	4.01	3.46	2.36	980-015-030-121
9	Series 981 Right Angle	909ER-ND	4.09	3.53	2.40	981-009-030-121
15		915ER-ND	4.36	3.76	2.56	981-015-030-121
25		925ER-ND	4.29	3.70	2.52	981-025-030-121

982 Series — Plastic or Metalized: • Cable Exit Top or Side • Available in both plain plastic and metalized for EMI/RFI suppression • Over 60dB shielding • Operating Temperature: -35°C to +95°C • Materials: Shell: Thermoplastic polyester; UL rated 94V-0; Screw locks: brass; EMI/RFI plating: Electroplated with nickel over copper. Electroplated parts not UL rated

Connector Size	Dimensions (Inch) A	B	C	D
9*	1.23	1.38	.630	.350
15	1.56	1.61	.630	.374
25	2.10	1.81	.630	.444
37	2.74	1.81	.630	.444
50	2.65	1.81	.735	.543

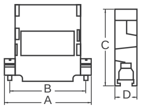


No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	909U-ND*	3.39	2.93	1.99	982-009-010-031
15		915U-ND	3.39	2.93	1.99	982-015-010-031
25		925U-ND	3.66	3.16	2.15	982-025-010-031
37		937U-ND	4.28	3.70	2.52	982-037-010-031
50		950U-ND	5.12	4.42	3.01	982-050-010-031
9	Shielded Metalized Plastic	909UA-ND*	6.39	5.51	3.75	982-009-020-121
15		915UA-ND	6.50	5.60	3.81	982-015-020-121
25		925UA-ND	6.92	5.97	4.06	982-025-020-121
37		937UA-ND	8.05	6.95	4.73	982-037-020-121
50		950UA-ND	8.83	7.62	5.18	982-050-020-121

* Part Number 909U-ND and 909UA-ND does not have a side cable exit.

983 Series — Plain Plastic or Metalized Plastic: • May be used as a "Gender Changer," pin-out changer, or standard backshell • Snap-together assembly • Half-clamp with self-tapping screws provides positive strain-relief • Available in plain plastic or metalized for EMI/RFI shielding

Conn. Size	Dimensions (Inch) A	B	C	D	Max. Cable Dia.
9	1.25	.98	1.92	.65	.27
15	1.56	1.31	1.92	.63	.47
25	2.12	1.85	1.92	.63	.47
37	2.75	2.50	1.92	.63	.47
50	2.75	2.40	1.92	.75	.47

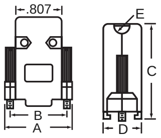


No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Plain Plastic	909P-ND	1.13	.98	.67	983-009-010-031
15		915P-ND	1.37	1.19	.81	983-015-010-031
25		925P-ND	1.71	1.48	1.01	983-025-010-031
37		937P-ND	2.78	2.40	1.64	983-037-010-031
50		950P-ND	2.93	2.53	1.72	983-050-010-031
9	Metalized Plastic	909M2-ND	1.73	1.50	1.02	983-009-020-121
15		915M2-ND	1.86	1.60	1.09	983-015-020-121
25		925M2-ND	2.37	2.05	1.39	983-025-020-121
37		937M2-ND	3.07	2.65	1.81	983-037-020-121
50		950M2-ND	3.77	3.25	2.21	983-050-020-121

993 Series — 45° Economy: • **Material:** Metalized Plastic and Plastic: ABS high temperature plastic, 94HB. Metalized Plating: Chrome.

Includes housing screws, housing nuts, 4-40 thumbscrews, strain relief clamps, and strain relief screws.

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.213	.984	1.595	.630	.260
25	2.165	1.852	2.095	.641	.400

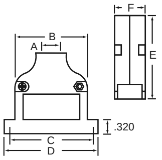


No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	993-09MP45-ND	1.86	1.60	1.09	993-009-020-121
25		993-25MP45-ND	2.00	1.73	1.18	993-025-020-121
9	Plastic	993-109P45-ND	1.31	1.13	.77	993-009-010-031
25		993-125P45-ND	1.45	1.25	.85	993-025-010-031

994 Series — Die Cast, Ethernet:

- **Material:** Die cast zinc alloy, nickel plated. Included are housing screw and housing nuts.

Conn. Size	Dimensions (Inch) A	B	C	D	E	F
9	.433	.790	.984	1.244	1.82	.614
15	.433	1.135	1.312	1.575	1.82	.665
25	.433	1.640	1.852	2.106	1.82	.630

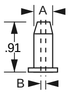


No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Straight	994-09DC-ND	3.31	2.85	1.94	994-009-030-121
15		994-15DC-ND	3.57	3.08	2.10	994-015-030-121
25		994-25DC-ND	3.94	3.40	2.32	994-025-030-121

A

Non-Conductive Rubber Grommet Sets: For better EMI/RFI Shielding and/or strain relief. For use with D-Sub Backshells. **Note:** Grom-9/25 and Grom-50 have four grommets per set and Grom-37 has three per set.

Digi-Key Part No.	Outside Dia. A (Inch)	Inside Diameter B (Inch)			
901G-ND	.400	.185	.248	.290	.335
902G-ND	.620	.320	.410	.500	—
903G-ND	.730	.340	.425	.495	.650



Description	Digi-Key Part No.	Price Each 5	25	100	NorComp Part No.
DB 9/25 Grom. Set	901G-ND	.40	.34	.24	162-000-925-000
DB 37 Grom. Set	902G-ND	1.06	.92	.63	162-000-037-000
DB 50 Grom. Set	903G-ND	1.45	1.25	.85	162-000-050-000

112 Series – Solder Cup with Right Angle Backshell (Centronics Type):

- **Material:** Insulator: Glass-filled thermoplastic, UL Rated 94V-0. Contacts: Copper alloy. Shell: Steel, nickel plated. Contact Plating: Gold plated.

Fig. 1

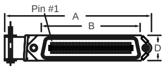


Fig. 2

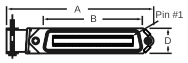


Fig. 3

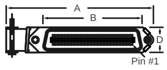
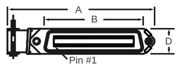
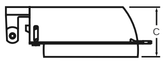


Fig. 4





Conn. Size	Dimensions (Inch) A	B	C	D
36	3.178	1.943	1.075	.646
50	3.780	2.538	1.325	.646

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
1	50	Male	1550RM-ND	9.19	7.93	5.39	112-050-103-011
2	50	Female	1550RF-ND	9.19	7.93	5.39	112-050-203-011
3	50	Male	1550LM-ND	9.19	7.93	5.39	112-050-103-021
4	50	Female	1550LF-ND	9.19	7.93	5.39	112-050-203-021

Hardware

Fig. 1

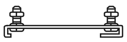


Fig. 2

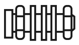


Fig. 3

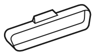


Fig. 4

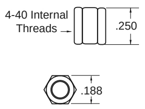


Fig. 5

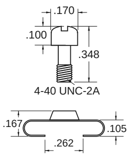


Fig. 6

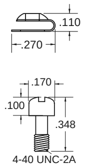


Fig. 7

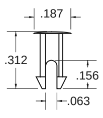


Fig. 8

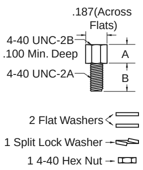
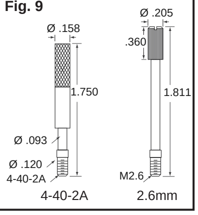


Fig. 9

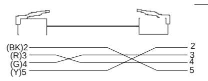


T2020-ND Insertion/Removal Tool .... **$8.76 each**

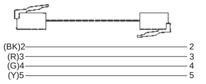
Fig.	Description	Dim. (Inch) A	B	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
	Slide Lock Posts for Ethernet Hoods (994 Series)							
1	9-Pin, D-Sub, or Ethernet 15-Pin, D-Sub, or Ethernet 25-Pin, D-Sub, or Ethernet	—	—	160-09SL-ND T2040-ND 160-25SL-ND	1.77 1.29 2.15	1.53 1.12 1.85	1.04 .76 1.26	160-009-002-031 160-015-003-031 160-025-004-031
2	2 Connectors Required	—	—	T2042-ND	1.34/2	.58	.40	160-000-005-041
	Dust Covers							
3	Female, 9-Position D-Sub	—	—	909DC-ND	.52	.45	.31	160-000-209-00
	Female, 15-Position D-Sub	—	—	915DC-ND	.52	.45	.31	160-000-215-00
	Female, 25-Position D-Sub	—	—	925DC-ND	.52	.45	.31	160-000-225-00
	Male, 9-Position D-Sub	—	—	160-09M-ND	.55	.48	.33	160-000-109-000
	Male, 15-Position D-Sub	—	—	160-15M-ND	.55	.48	.33	160-000-115-000
	Male, 25-Position D-Sub	—	—	160-25M-ND	.55	.48	.33	160-000-125-000
	4-40 Female Coupling Nut							
4	Brass, Plating Yellow Chromate	—	—	160-06YC-ND	.25	.15	.11	160-000-006-042
	Brass, Plating Nickel	—	—	160-06N-ND	.25	.15	.11	160-000-006-032
	4-40 Male Screwlock with Slip-On Retainer							
5	Steel, Plating Tin	—	—	160-01MT-ND	.87	.75	.51	160-000-001-051
	Steel, Plating Yellow Chromate	—	—	160-01MYC-ND	.81	.70	.48	160-000-001-041
	4-40 Male Screwlock with Clip-On Retainer (2 screws, 2 clips)							
6	Screw - Steel, Tin Plating Clip - Stainless Steel	— —	— —	160-02M-ND	.81	.70	.48	160-000-002-051
	Plastic Clips for Retaining Connectors to PC .062" Board							
7	Nylon	—	—	163-01P-ND	.25	.15	.11	163-001-000-000
	4-40 Female Screwlock Assembly							
8	Steel, Plating Yellow Chromate	.187	.312	160-10F-ND	.70	.60	.41	160-000-010-041
	Steel, Plating Yellow Chromate	.187	.625	160-11F-ND	.99	.85	.58	160-000-011-041
	Steel, Plating Yellow Chromate	.250	.156	160-12F-ND	.81	.70	.48	160-000-012-041
	Steel, Plating Yellow Chromate	.197	.197	160-13F-ND	.55	.48	.33	160-000-013-041
	Steel, Plating Yellow Chromate	.197	.323	160-15F-ND	.55	.48	.33	160-000-015-041
	Steel, Plating Yellow Chromate	.197	.433	160-16F-ND	.64	.55	.38	160-000-016-041
	Steel, Plating Yellow Chromate	.197	.520	160-17F-ND	.67	.58	.40	160-000-017-041
	Steel, Plating Yellow Chromate	.197	.669	160-18F-ND	.70	.60	.41	160-000-018-041
	4-40 Thumbscrew - Nickel Plated Steel Finish							
9	For 977/978/979 Series Backshells			160-02TS-ND	.26	.23	.16	160-000-050-031
	2.6mm Thumbscrew - Nickel Plated Steel Finish							
9	For 970/972 Series Backshells			160-03TS-ND	.70	.60	.41	160-000-060-031

IDC Modular Cable Assemblies

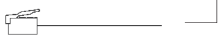
STYLE 1: STANDARD



STYLE 2: REVERSE



STYLE 3: SINGLE-ENDED



H □ □ □ □ - □ □ □ - ND

Wire Type: (Color)
1 = White
2 = Black
3 = Silver Satin

C = Designates Coil Cord

CONNECTOR(S):
44 = 4-Position, 4-Contact (Black on Pin 1)
64 = 6-Position, 4-Contact (Black on Pin 1)
66 = 6-Position, 6-Contact (White on Pin 1)
88 = 8-Position, 8-Contact (Gray on Pin 1)

LENGTH* *(Use "Feet" Only)*
Straight
07 = 7 Feet (2.13 Meters)
14 = 14 Feet (4.27 Meters)
25 = 25 Feet (7.62 Meters)
Coiled
05 = 5 Feet (1.52 Meters)
07 = 7 Feet (2.13 Meters)
10 = 10 Feet (3.05 Meters)
14 = 14 Feet (4.27 Meters)
***All cable lengths are ± 1%*

Straight Cable Assembly

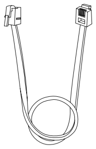
Example: H 1 4 4 1 - 0 7 - ND
Style 1
4-Position 4-Contact
White Wire
7 Feet Long (2.13 Meters)

Coil Cord Assembly

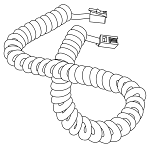
Example: H 1 4 4 1 - 1 0 C - ND
Style 1
4-Position 4-Contact
White Wire
10 Feet Long (3.05 M)
Optimum Extended Length

HOW TO ORDER: 1) You choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type, and Length (*in feet – not meters*).

Straight



Coiled



Straight Cable Assemblies

Style	Digi-Key* Part No.	Price Each 1	10	50	100
4-Position, 4-Contact Assemblies					
1	H144□-07-ND	1.98	1.69	1.43	1.22
	H144□-14-ND	2.37	2.02	1.71	1.46
	H144□-25-ND	2.99	2.54	2.15	1.84
2	H244□-07-ND	1.98	1.69	1.43	1.22
	H244□-14-ND	2.37	2.02	1.71	1.46
	H244□-25-ND	2.99	2.54	2.15	1.84
3	H344□-07-ND	1.19	1.01	.86	.73
	H344□-14-ND	1.58	1.34	1.14	.97
	H344□-25-ND	2.19	1.86	1.57	1.35
6-Position, 4-Contact Assemblies					
1	H164□-07-ND	2.62	2.23	1.88	1.61
	H164□-14-ND	3.04	2.59	2.19	1.87
	H164□-25-ND	3.58	3.05	2.57	2.20
2	H264□-07-ND	2.58	2.20	1.86	1.59
	H264□-14-ND	2.97	2.53	2.13	1.83
	H264□-25-ND	3.58	3.05	2.57	2.20
3	H364□-07-ND	1.49	1.27	1.07	.92
	H364□-14-ND	1.87	1.60	1.35	1.15
	H364□-25-ND	2.49	2.12	1.79	1.53
6-Position, 6-Contact Assemblies					
1	H166□-07-ND	3.08	2.62	2.21	1.89
	H166□-14-ND	3.68	3.13	2.64	2.26
	H166□-25-ND	4.63	3.93	3.32	2.84
2	H266□-07-ND	3.08	2.62	2.21	1.89
	H266□-14-ND	3.68	3.13	2.64	2.26
	H266□-25-ND	4.63	3.93	3.32	2.84
3	H366□-07-ND	1.84	1.57	1.32	1.13
	H366□-14-ND	2.44	2.08	1.76	1.50
	H366□-25-ND	3.39	2.88	2.44	2.08
8-Position, 8-Contact Assemblies					
1	H188□-07-ND	4.20	3.57	3.02	2.58
	H188□-14-ND	5.02	4.26	3.60	3.08
	H188□-25-ND	6.30	5.35	4.52	3.87
2	H288□-07-ND	4.20	3.57	3.02	2.58
	H288□-14-ND	5.02	4.26	3.60	3.08
	H288□-25-ND	6.30	5.35	4.52	3.87
3	H388□-07-ND	2.51	2.13	1.80	1.54
	H388□-14-ND	3.32	2.83	2.39	2.04
	H388□-25-ND	4.61	3.92	3.31	2.83

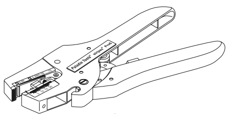
***1**= White, **2** = Black, **3** = Silver Satin.
Note: Custom length also availble — minimum order required.

Coil Cord Assemblies

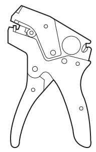
Style	Digi-Key* Part No.	Price Each 1	10	50	100
4-Position, 4-Contact Assemblies					
1	H144□-05C-ND	3.37	2.87	2.42	2.07
	H144□-07C-ND	3.82	3.25	2.74	2.35
	H144□-10C-ND	4.62	3.92	3.31	2.84
	H144□-14C-ND	6.07	5.16	4.36	3.73
2	H244□-05C-ND	3.37	2.87	2.42	2.07
	H244□-07C-ND	3.82	3.25	2.74	2.35
	H244□-10C-ND	4.62	3.92	3.31	2.84
	H244□-14C-ND	6.07	5.16	4.36	3.73
3	H344□-05C-ND	2.57	2.19	1.85	1.58
	H344□-07C-ND	3.02	2.57	2.17	1.86
	H344□-10C-ND	3.82	3.25	2.74	2.35
	H344□-14C-ND	5.28	4.48	3.79	3.24
6-Position, 4-Contact Assemblies					
1	H164□-05C-ND	3.97	3.37	2.85	2.44
	H164□-07C-ND	4.42	3.76	3.17	2.71
	H164□-10C-ND	5.21	4.43	3.74	3.20
	H164□-14C-ND	6.67	5.67	4.79	4.09
2	H264□-05C-ND	3.97	3.37	2.85	2.44
	H264□-07C-ND	4.42	3.76	3.17	2.71
	H264□-10C-ND	5.21	4.43	3.74	3.20
	H264□-14C-ND	6.67	5.67	4.79	4.09
3	H364□-05C-ND	2.87	2.44	2.06	1.77
	H364□-07C-ND	3.32	2.82	2.39	2.04
	H364□-10C-ND	4.12	3.50	2.96	2.53
	H364□-14C-ND	5.57	4.74	4.00	3.42
6-Position, 6-Contact Assemblies					
1	H166□-05C-ND	4.73	4.02	3.39	2.90
	H166□-07C-ND	5.02	4.27	3.60	3.08
	H166□-10C-ND	6.26	5.32	4.50	3.85
	H166□-14C-ND	7.30	6.20	5.24	4.48
2	H266□-05C-ND	4.73	4.02	3.39	2.90
	H266□-07C-ND	5.02	4.27	3.60	3.08
	H266□-10C-ND	6.26	5.32	4.50	3.85
	H266□-14C-ND	7.30	6.20	5.24	4.48
3	H366□-05C-ND	3.49	2.97	2.51	2.15
	H366□-07C-ND	3.78	3.22	2.72	2.32
	H366□-10C-ND	5.03	4.27	3.61	3.09
	H366□-14C-ND	6.06	5.15	4.35	3.72
8-Position, 8-Contact Assemblies					
1	H188□-05C-ND	7.52	6.39	5.40	4.61
	H188□-07C-ND	7.28	6.19	5.22	4.47
	H188□-10C-ND	9.16	7.78	6.57	5.62
	H188□-14C-ND	9.88	8.39	7.09	6.06
2	H288□-05C-ND	7.52	6.39	5.40	4.61
	H288□-07C-ND	7.28	6.19	5.22	4.47
	H288□-10C-ND	9.16	7.78	6.57	5.62
	H288□-14C-ND	9.88	8.39	7.09	6.06
3	H388□-05C-ND	5.83	4.95	4.18	3.58
	H388□-07C-ND	5.59	4.75	4.01	3.43
	H388□-10C-ND	7.47	6.35	5.36	4.58
	H388□-14C-ND	8.18	6.95	5.87	5.02

* **1** = White, **2** = Black, **3** = Silver Satin.

Paladin Tools® Tools

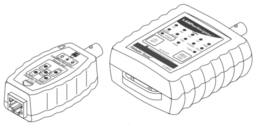


Stripax® Pro 6



Mini-Stripax® Plus

Cable Tester



LAN ProNavigator Test Set

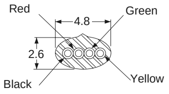
Cable Tester: The modular cable tester is a hand held instrument designed to test telephone (RJ11) and computer data-link (RJ45) wiring.
Wire Strippers: Stripping and cutting wires in the range of 28-12AWG • Solid and fine stranded conductors with all grades of PVC insulation hardness • P.T.F.E. insulation • Stranded conductors (even several conductors in one work cycle) • Self-adjusting cable cutter • Strips both modular and discrete wires
Stripax ® Pro 6 Strippers: The new stripax performs powerful stripping of standard and industrial insulations including PVC, THHN, THHW, silicone and polyethylene. Stripping blades are composed of 68 individual spring-compression blades to adjust precisely to the insulation. Not for Teflon or Kapton hard insulations.
LAN ProNavigator™: Two-piece tester includes main unit and remote with test results at both ends. One-button, simple testing (PASS/FAIL or fault find). Detects opens, shorts, crossed wires and split pairs. Cable types, RG58, RG59, RG6, RG6 Quad, Belden 8281, RG8, RG11, CAT-5, CAT 5e or CAT-6 (UTP/STP) cable.

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Modular Cable Tester	PAL1529-ND	67.99	1529
Sure Strip™ 4.0 (AWG 20-12)	PA904893-ND	56.99	904893
Mini-Stripax® Plus (AWG 28-18)	PAL1115-ND	82.94	1115P
Replacement Blade for PAL1115-ND	PAL2108-ND	21.07	2108
Stripax® Pro 6 (AWG 28-10)	PAL1113.1-ND	75.48	1113.1
LAN ProNavigator test set (main and remote), 2 RJ45 patch cords, 2 belt clips	PAL1543.1-ND	124.99	1543

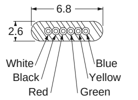
Modular Cable

Flat modular line cord is available in either straight or coiled. **Straight:** H004 is sold in hanks of 100, 500 and 1,000 feet, spools of 2,000 feet; H006, H008 and H010 are sold in hanks of 100 and 500 feet, spools of 1,000 feet. **Coiled:** Hxx4□C, Hxx6□C, Hxx8□C and Hxx10 are sold in 5, 7, 10 and 14 feet approximate optimum extended lengths. Extension beyond the optimum extended length can degrade the retractability of the cord. Both types are available in three colors—white (designated by 1 for □ in part number), black (designated by 2 for □ in part number) and silver satin (designated by 3 for □ in part number).

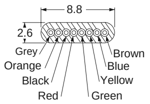
View Ridge Up 4-Conductor Cable



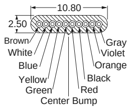
View Ridge Up 6-Conductor Cable



View Ridge Up 8-Conductor Cable



View Ridge Up 10-Conductor Cable



No. of Cond.	Length Ft.(Meter)	Digi-Key* Part No.	Price Each 1	10	100
Coiled Line Cord — 5 ft. (1.52 meter), 7 ft. (2.13 meter), 10 ft. (3.05 meter) and 14 ft. (4.27 meter) approximate extended lengths					
4	5 (1.52)	H054□C-ND	2.01	1.81	1.61
4	7 (2.13)	H074□C-ND	2.52	2.27	2.02
4	10 (3.05)	H104□C-ND	3.42	3.08	2.74
4	14 (4.27)	H144□C-ND	5.07	4.57	4.06
6	5 (1.52)	H056□C-ND	2.55	2.30	2.04
6	7 (2.13)	H076□C-ND	2.88	2.60	2.31
6	10 (3.05)	H106□C-ND	4.29	3.87	3.44
6	14 (4.27)	H146□C-ND	5.46	4.92	4.37
8	5 (1.52)	H058□C-ND	4.68	4.22	3.75
8	7 (2.13)	H078□C-ND	4.41	3.97	3.53
8	10 (3.05)	H108□C-ND	6.54	5.89	5.24
8	14 (4.27)	H148□C-ND	7.35	6.62	5.88
10	5 (1.52)	H0510□C-ND	5.37	4.84	4.30
10	7 (2.13)	H0710□C-ND	5.58	5.03	4.47
10	10 (3.05)	H1010□C-ND	7.14	6.43	5.72
10	14 (4.27)	H1410□C-ND	7.95	7.16	6.36

(Note: "X" in Digi-Key Part No. Represents Number of Feet)

No. of Cond.	Digi-Key* Part No.	Pricing 100 ft.	500 ft.	1,000 ft.	2,000 ft.
Straight Line Cord — 26 AWG					
4	H004□-X-ND	6.30	28.88	52.50	84.00
6	H006□-X-ND	9.75	44.69	65.00	—
8	H008□-X-ND	13.20	60.50	88.00	—
10	H010□-X-ND	18.90	86.63	126.00	—

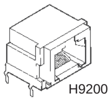
* **1** = White, **2** = Black, **3** = Silver Satin

HIROSE ELECTRIC CO.,LTD.

Data-Link Shielded Jack & Cable Assembly

FEATURES: Plug; • One piece body struct. of the shell and cable clamp make perfect "EMI" protection • A metal shell offers "ESD" protection and a plastic cover is provided for enhanced aesthetics • Using the specified tooling, will provide quick and easy cable assembly. **Jack;** • In order to protect the circuit inside the equip., the jack is constructed to allow the shielding to engage first upon mating.

TM11 "EMI" protection connector is designed to fulfill the requirement of noise and "ESD" protection. The design is in conformance with the F.C.C. regulation as specified in "476 C.F.R., Part 68, subpart F."



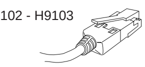
H9200

Shielded Jack — PCB Mount

Positions-Contacts	Digi-Key Part No.	Price Each 1	10	100
8-8	H9200-ND	4.48	3.92	2.78

Standard Style Cable Assemblies

H9102 - H9103



Positions-Contacts	Length Ft. (M)	Cable Type	Termination	Digi-Key Part No.	Price Each
8-8	4 (1.22)	Straight	Double-Ended	H9102-ND	18.21
8-8	7 (2.13)	Straight	Double-Ended	H9103-ND	18.29

HIROSE ELECTRIC CO.,LTD. “TM” Modular Connectors

Fig.1

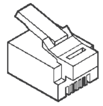


Fig. 2

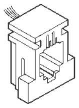


Fig. 3

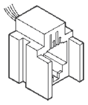


Fig. 4

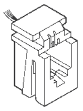


Fig. 5

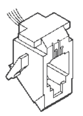


Fig. 6

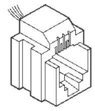


Fig. 7

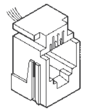


Fig. 8

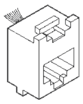


Fig. 9

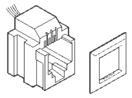


Fig. 10

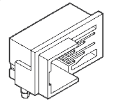


Fig. 11

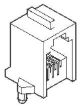


Fig. 12

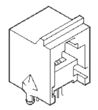


Fig. 13

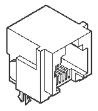


Fig. 14

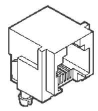


Fig. 15

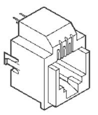


Fig. 16

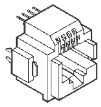


Fig. 17

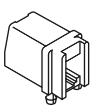


Fig. 18

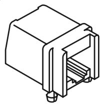


Fig. 19

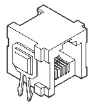


Fig. 20

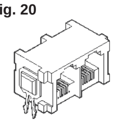


Fig. 21

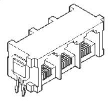


Fig. 22

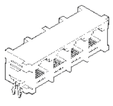


Fig. 23

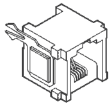


Fig. 24

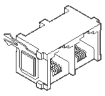


Fig. 25

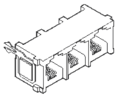


Fig. 26

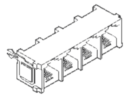


Fig. 27

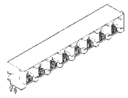


Fig. 28

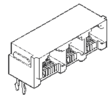


Fig. 29

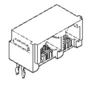


Fig. 30

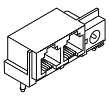


Fig. 31

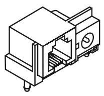


Fig. 32

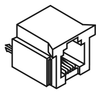


Fig. 33

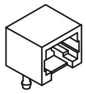


Fig. 34

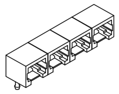


Fig. 35

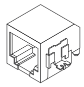


Fig. 36

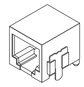


Fig. 37

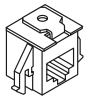


Fig. 38

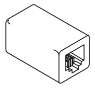


Fig. 39

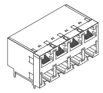


Fig.	Positions- Contacts	Description	Dimensions (mm) W	H	D	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
Plugs (for IDC Termination with Flat Line Cord)										
1	4-4	Plug	7.7	6.6	13.4	H9091-ND	.76	.62	.45	TM3P-44P
	6-4		9.7	6.6	13.4	H9092-ND	.76	.62	.45	TM3P-64P
	6-6		9.7	6.6	13.4	H9093-ND	.95	.78	.57	TM3P-66P
	8-8		11.7	6.6	22.5	H9094-ND	1.60	1.24	.95	TM8P-88P
Receptacles — with 6” (152.4mm) Wire Leads; Color: Gray										
2	4-4	Receptacle	17.5	20.5	10.2	H9001-ND	2.02	1.68	1.24	TM1R-616B44-35S-150
3	4-4		12.4	17.4	14.3	H9002-ND	2.08	1.73	1.28	TM1R-616M44-35S-150A
4	4-4		12.4	21.3	12.5	H9003-ND	2.02	1.68	1.24	TM1R-616P44-35S-150
5	4-4		15.3	20.5	10.2	H9018-ND	2.21	1.84	1.36	TM1R-616W44-4S-150
6	6-4		14.9	18.3	13.7	H9009-ND⋆	2.08	1.73	1.28	TM1RV-623K64-35S-150
7	6-4	Receptacle	12.4	21.4	12.5	H9010-ND⋆	2.15	1.79	1.32	TM1RV-623P64-35S-150
6	6-6		14.9	18.3	13.7	H9015-ND⋆	1.95	1.62	1.20	TM1RV-623K66-35S-150
7	6-6		12.4	21.4	12.5	H9016-ND⋆	2.70	2.25	1.66	TM1RV-623P66-35S-150
8	8-8		16.0	18.4	12.5	H9021-ND⋆	4.48	3.92	2.78	TM1RV-647AF88-35S150
Receptacles — Panel Mount w/ 6” (152.4mm) Wire Leads (Bezel Included); Color: Brown										
9	6-2	Receptacle	14.9	18.3	13.7	H9061-ND	2.31	1.92	1.42	TM2RG-L62-5S-150
	6-4		14.9	18.3	13.7	H9062-ND	2.96	2.46	1.82	TM2RG-L64-5S-150
	6-6		14.9	18.3	13.7	H9063-ND	2.89	2.52	1.79	TM2RG-L66-5S-150
Receptacles — P.C. Board Mount; Color: Gray										
10	4-4	Receptacle	20.0	11.0	10.5	H9031-ND	1.85	1.54	1.14	TM5RF-44
	6-4		24.6	13.0	14.0	H9032-ND	2.41	2.00	1.48	TM5RF-64
	6-6		24.6	13.0	14.0	H9033-ND	2.34	1.95	1.44	TM5RF-66
11	4-4	Receptacle	18.0	18.6	14.3	H9041-ND	1.82	1.52	1.12	TM5RC-44
11	6-4		18.0	21.1	14.3	H9042-ND	1.92	1.60	1.18	TM5RC-64
11	6-6		18.0	21.1	14.3	H9043-ND	2.11	1.76	1.30	TM5RC-66(01)
12	8-8		18.1	21.2	17.5	H9044-ND	2.81	2.45	1.74	TM5RC-88
13	4-4	Receptacle	12.8	14.0	14.0	H9081-ND	1.69	1.41	1.04	TM5RJ3-44
	6-4	Receptacle	14.8	14.0	14.0	H9082-ND	1.95	1.62	1.20	TM5RJ1-64
	6-6	Receptacle	14.8	14.0	14.0	H9083-ND	2.24	1.87	1.38	TM5RJ1-66
	8-8	Receptacle (Keyed)	19.2	14.0	16.0	H9084-ND	3.09	2.57	1.90	TM5RJ1-88
14	6-4	Receptacle	14.8	14.0	14.0	H9126-ND	1.98	1.65	1.22	TM5RJ2-64
	6-6	Receptacle	14.8	14.0	14.0	H9127-ND	2.34	1.95	1.44	TM5RJ2-66
	8-8	Receptacle (Keyed)	19.2	14.0	16.0	H9085-ND	2.89	2.41	1.78	TM5RJ-88
	8-8	Receptacle (Keyed)	18.6	14.0	14.0	H9128-ND	3.19	2.79	1.98	TM5RJ2-88
17	6-2	Receptacle	13.0	14.5	18.0	H9122-ND	1.59	1.33	.98	TM5RE1-62(50)
17	4-4		13.0	14.5	18.0	H9123-ND	2.08	1.73	1.28	TM5RE1-44
17	6-4		15.0	14.5	18.0	H9124-ND	2.11	1.76	1.30	TM5RE1-64
18	6-6		15.0	14.5	18.0	H9125-ND	2.47	2.06	1.52	TM5RE1-66
Receptacles — Top Entry P.C. Board Mount; Color: White										
15	4-4	Low Profile	12.9	18.3	15.0	H9071-ND	2.11	1.76	1.30	TM3RA-44
15	6-4		14.9	18.3	15.0	H9072-ND	2.11	1.76	1.30	TM3RA-64
15	6-6		14.9	18.3	15.0	H9073-ND	2.34	1.95	1.44	TM3RA-66
16	8-8		16.9	18.3	15.0	H9074-ND	2.81	2.45	1.74	TM3RA-88
Receptacles — P.C. Board Mount with Tin Hold-Down Tabs; Color: Gray										
10	4-4	PC Mount	20.0	11.0	10.5	H9034-ND	2.08	1.73	1.28	TM5RF1-44
19	6-2		18.0	15.4	16.0	H9064-ND	2.76	2.30	1.70	TM2REA-0602
19	6-4		18.0	15.4	16.0	H9057-ND	3.12	2.60	1.92	TM2REA-0604
19	6-6		18.0	15.4	16.0	H9058-ND	2.92	2.55	1.81	TM2REA-0606
20	2 x 6-2	PC Mount	28.2	15.4	16.0	H9051-ND	3.08	2.69	1.91	TM2REA-1204
	2 x 6-4		28.2	15.4	16.0	H9052-ND	3.69	3.22	2.28	TM2REA-1208
	2 x 6-6		28.2	15.4	16.0	H9065-ND	4.48	3.92	2.78	TM2REA-1212
21	3 x 6-2	PC Mount	39.2	15.4	16.0	H9053-ND	3.77	3.29	2.33	TM2REA-1806
	3 x 6-4		39.2	15.4	16.0	H9054-ND	4.70	4.11	2.91	TM2REA-1812
	3 x 6-6		39.2	15.4	16.0	H9066-ND	5.91	5.16	3.66	TM2REA-1818
22	4 x 6-2	PC Mount	50.2	15.4	16.0	H9055-ND	4.37	3.82	2.71	TM2REA-2408
	4 x 6-4		50.2	15.4	16.0	H9056-ND	6.13	5.36	3.80	TM2REA-2416
	4 x 6-6		50.2	15.4	16.0	H9059-ND	7.33	6.45	4.84	TM2REA-2424
23	6-2	PC Top Entry	17.2	16.0	15.4	H9110-ND	2.80	2.33	1.72	TM2RE-0602
	6-4		17.2	16.0	15.4	H9111-ND	3.02	2.52	1.86	TM2RE-0604
	6-6		17.2	16.0	15.4	H9112-ND	3.22	2.68	1.98	TM2RE-0606
24	2 x 6-2	PC Top Entry	28.2	16.0	15.4	H9113-ND	3.00	2.62	1.86	TM2RE-1204
	2 x 6-4		28.2	16.0	15.4	H9114-ND	3.82	3.34	2.37	TM2RE-1208
	2 x 6-6		28.2	16.0	15.4	H9115-ND	4.70	4.11	2.91	TM2RE-1212
25	3 x 6-2	PC Top Entry	39.2	16.0	15.4	H9116-ND	3.60	3.15	2.23	TM2RE-1806
	3 x 6-4		39.2	16.0	15.4	H9117-ND	4.79	4.18	2.96	TM2RE-1812
	3 x 6-6		39.2	16.0	15.4	H9118-ND	6.08	5.31	3.76	TM2RE-1818
26	4 x 6-2	PC Top Entry	50.2	16.0	15.4	H9119-ND	4.70	4.11	2.91	TM2RE-2408
	4 x 6-4		50.2	16.0	15.4	H9120-ND	6.44	5.62	3.98	TM2RE-2416
	4 x 6-6		50.2	16.0	15.4	H9121-ND	6.58	5.79	4.34	TM2RE-2424
27	8 x 6-6	Side Entry 8 x 6-6	93.0	14.0	14.0	H9086-ND	11.76	10.29	7.84	TM5RJ1-4848
28	3 x 8-8	3 x 8-8	43.3	14.0	14.7	H9075-ND	7.78	6.85	5.14	TM5RSA-2424
28	—	3 x (1) 8-8, (2) 6-6	30	14	13.5	H9076-ND	7.03	6.19	4.64	TM5RQ-2020
29	—	2 x (1) 8-8, (1) 6-6	28	14	13.5	H9077-ND	6.11	5.33	3.78	TM5RQ-1414
30	2 x 6-2	with Power Plug	35	15	13.7	H9129-ND	2.75	2.40	1.70	TM5RT-1204PWJ
	2 x 6-2		35	15	13.7	H9130-ND	2.75	2.40	1.70	TM5RT1-1204PWJ
31	6-2	with Power Plug	24	15	13.7	H9131-ND	2.76	2.30	1.70	TM5RT-62PWJ
	6-2		24	15	13.7	H9132-ND	2.76	2.30	1.70	TM5RT1-62PWJ
	6-4		24	15	13.7	H9133-ND	3.03	2.64	1.87	TM5RT1-64PWJ
	6-6		24	15	13.7	H9134-ND	2.83	2.48	1.76	TM5RT1-66PWJ
32	4-4	Top Entry SMT	13	17	12.5	H9135-ND	2.31	1.92	1.42	TM15R-44(30)
	6-4		14	17	12.5	H9136-ND	2.63	2.19	1.62	TM15R-64(30)
33	8-8	Receptacle	14	11.7	17	H9138-ND	3.16	2.76	1.96	TM5RL-88
34	4 x 8-8		56	11.7	17	H9139-ND	7.05	6.21	4.66	TM5RL-3232
Receptacles — Right Angle, SMT										
35	6-2	Receptacle	13.6	11.3	13.5	H10131-ND	2.93	2.43	1.82	TM18R-62
	6-4		13.6	11.3	13.5	H10132-ND	3.05	2.52	1.89	TM18R-64
	8-8		15.6	11.3	14.5	H10133-ND	4.29	3.56	2.67	TM18R-88
36	6-2	Receptacle	13.6	11.3	14.2	H10134-ND	2.24	1.87	1.38	TM18RA-FT-62
	6-2		13.6	11.3	14.2	H10135-ND	2.24	1.87	1.38	TM18RA-IB-62
	6-2		13.6	11.3	13.5	H10136-ND	3.92	3.24	2.43	TM18R-DL-62
	6-2		15.6	12.3	14.5	H10137-ND	3.92	3.24	2.43	TM18R-TO-62
	8-8		15.6	12.3	14.5	H10138-ND	4.12	3.41	2.56	TM18R-TO-88
“TM” Modular Connectors										
34	4 x 8-8	with Light Pipes	59.2	15.3	25.9	H9005-ND	14.04	13.22	11.57	TM21R-5A-3232-LP
37	8-8	Wire Lead 12”	24	20	15	H9140-ND	6.60	5.81	4.36	TM11R-88-35S-300
38	8-8	Adapter Recept. to Receptacle	18.6	17	37.5	H9141-ND	11.05	9.74	8.16	TM5RL-88-JJ
39	8 x 8-8	Receptacle w/ LED’s	59.2	28	32.5	H10139-ND	18.23	17.62	15.80	TM21R-5B-3232D-LP

⋆ 50µ Gold Plating

Modular Connectors and Jacks

PRODUCT FACTS: • Meets or exceeds FCC Part 68 rules and regulations; REA PE-76; and UL 1863, Communication Circuit Accessories • Meets 1000 volt dielectric requirement • Designed for direct mounting on pc boards • Designed for ease of soldering and board cleaning • Selectively gold plated contacts for lower cost • Surface mount jacks compatible with vapor phase environment • All jacks are flame retardant polyester, standard color black, unless specified otherwise • Listed by Underwriters Laboratories Inc., File No. E81956 • Certified by Canadian Standards Association File No. LR82669

ELECTRICAL SPECIFICATIONS: • Current Rating – 1.5 amp max. @ 25°C, derated to 0.2 amp max. @ 70°C ambient • Voltage Rating – 150 volts ac max. • Dielectric Withstanding Voltage – 1000 VAC, RMS, 60 Hz, 1 min. • Insulation Resistance – 500 megaohms min. • Surge Test – to 1000 volts **MECHANICAL SPECIFICATIONS:** • PC Board Retention – will not dislodge from pc board when subjected to 1 lb. (4.4 N) pull before soldering and 10 lbs. (44 N) pull after soldering • Durability – 750 mating cycles **MATERIAL AND FINISH:** • Housing – Thru-hole: Polyester, UL 94V-0 rated surface mount: Polyphenylene Sulfide, UL 94V-0 rated • Contact – .014 (0.36) thick phosphor bronze; plated .50µ" gold in contact area and 150µ" tin-lead on solder tails, over .50µ nickel underplate

FIG. 2 PRODUCT FACTS: • True mass displacement termination of jacketed cable with tinsel, solid or stranded conductors • Available for round or flat-oval cable • One piece construction with preloaded contacts • FCC and EIA/TIA industry standard size and performance • Selectively gold plated terminals • Recognized by Underwriters Laboratories Inc., File No. E81956 • Certified by Canadian Standards Association Certificate No. LR 7189A

MATERIAL AND FINISH: • Housing: Polycarbonate, UL 94V-2 flammability rating • Terminal: .014" (.36mm) thick, phosphor bronze; underplated with 100µ" nickel and plated with 50µ" gold in contact region and gold flash on remainder of terminal. **ELECTRICAL SPECIFICATIONS:** • 150VAC max. at 1.5A @ 25°C, derated to .2 A @ 70°C • Dielectric Withstanding Voltage: 1000 Volts AC • Insulation Resistance: 500 Megaohms. **MECHANICAL SPECIFICATIONS:** • Cable-to-Plug Tensile Strength: 17 lbs (76N) min. • Durability: 750 mating cycles

EXTERNAL STRAIN RELIEF: • Positively engaged to the plug housing • Improved shield contact path redundant contact points • 360° wrap on cable jacket and shield foil, extraordinary strain relief • Improved shield coverage at housing

FIG. 9 PRODUCT FACTS: • Performance exceeds Near End Crosstalk (NEXT) requirements of -40dB at 100 MHz per EIA/TIA 568A • Available in single port or multiple port configurations, shielded or unshielded • Eliminate need for customized printed circuit board compensation to achieve high performance

MATERIAL AND FINISH: • Housing: Polyester, black UL 94V-0 rated • Contact: Phosphor bronze, gold over nickel plated in contact area, tin-lead over nickel in solder area • Shield: Brass, bright tin-lead plated **SPECIFICATIONS:** • Current: 1.5 amp max. @ 25°C • Voltage: 150 VAC maximum • Operating Temperature: -40°C to 70°C • Mating/Unmating Forces: 5 pounds maximum

Fig. 1

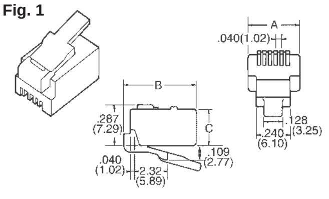
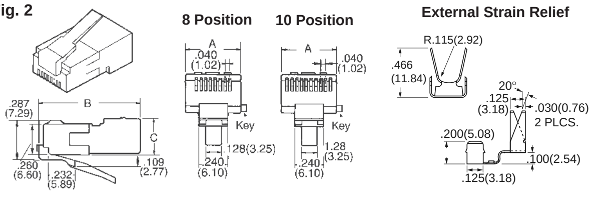


Fig. 2


8 Position

10 Position

External Strain Relief

Fig. 3

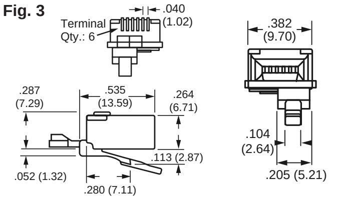


Fig. 4 – Side Entry

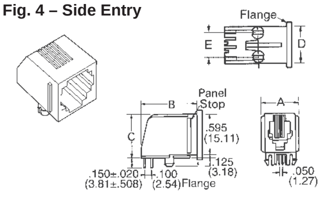


Fig. 5 – Top Entry

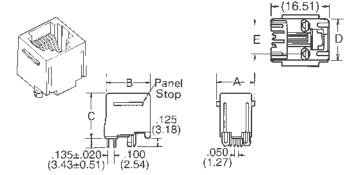
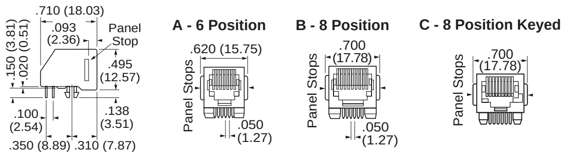


Fig. 6 – Side Entry, Low Profile


A - 6 Position

B - 8 Position

C - 8 Position Keyed

Fig.	Description	Positions Contacts	Dimensions - Inch (mm)					Digi-Key Part No.	Price Each		AMP Part No.
			A	B	C	D	E		1	25	
1	Plug, Handset, Stranded, Flat Oval	4-4	.300 (7.62)	.525 (13.33)	.260 (6.60)	—	—	A9091-ND	.32	.30	5-641334-3
	Plug, Stranded, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9092-ND	.32	.30	5-641335-3
	Plug, Solid, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9116-ND	.40	.32	5-556384-3
	Plug, Stranded, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9093-ND	.38	.35	5-641337-3
	Plug, Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9118-ND	.40	.33	5-555042-3
	Plug, Stranded, Round	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9117-ND	.33	.27	5-554710-3
	Plug, Small Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9119-ND	.61	.49	5-557970-3
	Plug, Long Body, Solid, Flat Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9120-ND	.81	.66	5-555426-3
	Plug, Stranded, Flat Oval, Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9121-ND	.76	.61	5-555176-3
	Plug, Stranded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9122-ND	.76	.61	5-555177-3
	Plug, Stranded, Shielded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9128-ND	1.94	1.55	5-555175-3
	Plug, Shielded, Long Body, Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9027-ND	1.94	1.76	5-555174-2
	Plug, Stranded, Flat Oval	6-2	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24921-ND	.28	.23	5-641333-2
	Plug, Solid, Flat Oval, Small	6-4	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24922-ND†	.77	.62	5-557965-2
2	Plug, Stranded, Flat Oval	8-8	.460 (11.68)	.845(21.46)	.312 (7.92)	—	—	A9094-ND	.73	.69	5-554739-3
	Plug, Keyed, Stranded, Flat Oval	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9058-ND	.57	.46	5-554743-3
	Plug, Solid, Flat Oval	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9126-ND	.61	.49	5-554720-3
	Plug, Solid, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9123-ND	.61	.49	5-557315-3
	Plug, Stranded, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9125-ND	.57	.46	5-554169-3
	Plug, Stranded, Small, Round, Cable	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24923-ND	.40	.32	5-557961-2
	Plug, Solid, Round, Keyed	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9127-ND	.57	.46	5-554170-3
	Plug, High Performance, Stranded, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9059-ND	.84	.68	5-558530-3
	Plug, Stranded, Shielded, High Performance, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9111-ND	2.03	1.63	5-569552-3
	Plug, Solid, Shielded, High Performance, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9112-ND	2.17	1.74	5-569550-3
	Plug, Solid, Unshielded, High Performance	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24920-ND	.90	.72	5-569278-3
	Plug, Solid, Flat Oval, Small	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24924-ND†	.61	.49	5-557972-2
	Plug, Stranded, Flat Oval, Small	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24925-ND†	.63	.51	5-557973-3
	Plug, Solid Keyed, Flat Oval	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24926-ND	1.41	1.14	5-555417-2
	Plug, Stranded, Shielded, Flat Oval	8-8	.464 (11.79)	.915(23.24)	.330 (8.38)	—	—	A9113-ND	1.93	1.55	5-569542-3
	Plug, Stranded, Shielded, Round Long	8-8	.464 (11.79)	.915(23.24)	.330 (8.38)	—	—	A9114-ND	1.93	1.55	5-569532-3
	Plug, Solid, Shielded, Round	8-8	.464 (11.79)	.915(23.24)	.330 (8.38)	—	—	A9115-ND	1.93	1.55	5-569530-3
	Plug, Stranded, Round	10-10	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9129-ND	1.63	1.31	5-557963-3
	External Strain Relief Modular Connector	—	—	—	—	—	—	A9130-ND	—	.76	558527-1
	Crimp Tool Assembly, External Strain Relief	—	—	—	—	—	—	A9800-ND	192.75	—	224928-1
	Die Set, Strain Relief Modular, use with A9996	—	—	—	—	—	—	A9801-ND	140.25	—	224928-2
	Pro-Crimper II Hand Tool Without Die	—	—	—	—	—	—	A9996-ND	66.00	—	354940-1
3	Plug With Offset Latch	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A9057-ND	.85	.68	5-555237-2
	Plug, Round, Stranded, Offset	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A24918-ND	.74	.60	5-555238-2
	Plug, Flat Oval, Solid, Offset	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A24919-ND	.74	.59	5-555236-2
4	Jack, Side Entry With Panel Stops	4-4	.540 (13.72)	.810 (20.57)	.630 (16.00)	.440 (11.18)	.300 (7.62)	A9041-ND	1.14	1.08	520249-2
	Jack, Side Entry With Panel Stops	6-2	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A9082-ND	.68	.55	520250-1
	Jack, Side Entry With Panel Stops	6-4	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A9042-ND	.70	.64	520250-2
	Jack, Side Entry With Panel Stops	6-6	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A9043-ND	.72	.66	520250-3
	Jack, Side Entry With Panel Stops	8-8	.700 (17.78)	.810 (20.57)	.630 (16.00)	.600 (15.24)	.450 (11.43)	A9044-ND	.74	.68	520251-4
	Jack, Side Entry With Panel Stops, Keyed	8-8	.700 (17.78)	.810 (20.57)	.630 (16.00)	.600 (15.24)	.450 (11.43)	A9046-ND	.74	.60	520252-4
	Jack, Side Entry With Flange	4-4	.570 (14.48)	.810 (20.57)	.680 (17.27)	.440 (11.18)	.300 (7.62)	A9077-ND	.89	.72	520241-2
	Jack, Side Entry With Flange	6-4	.650 (16.51)	.810 (20.57)	.680 (17.27)	.520 (13.21)	.400 (10.16)	A9078-ND	2.40	1.92	520242-2
	Jack, Side Entry With Flange	6-6	.650 (16.51)	.810 (20.57)	.680 (17.27)	.520 (13.21)	.400 (10.16)	A9079-ND	.70	.57	520242-3
	Jack, Side Entry With Flange	8-8	.730 (18.54)	.810 (20.57)	.680 (17.27)	.600 (15.24)	.450 (11.43)	A9080-ND	1.73	1.39	520243-4
	Jack Without Panel Stops and Flange	4-4	.440 (11.18)	.810 (20.57)	.630 (16.00)	—	.300 (7.62)	A9047-ND	.70	.56	555980-1
	Jack Without Panel Stops and Flange	6-4	.520 (13.21)	.810 (20.57)	.630 (16.00)	—	.400 (10.16)	A9048-ND	.71	.64	555979-1
	Jack Without Panel Stops and Flange	6-6	.520 (13.21)	.815 (20.70)	.630 (16.00)	—	.400 (10.16)	A9049-ND	.75	.61	520470-3
	Jack Without Panel Stops and Flange	8-8	.600 (15.24)	.810 (20.57)	.630 (16.00)	—	.450 (11.43)	A9050-ND	.80	.64	520426-4
	Jack Without Panel Stops and Flange, Keyed	8-8	.600 (15.24)	.810 (20.57)	.630 (16.00)	—	.450 (11.43)	A9051-ND	1.54	1.23	554517-1

† Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

(Continued)

Fig. 7

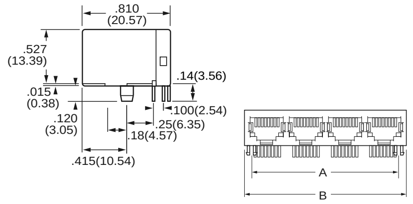


Fig. 8

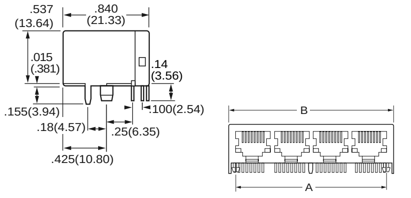


Fig. 9 – Side Entry with Panel Stops

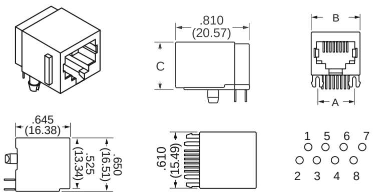


Fig. 10 – Modular Jack

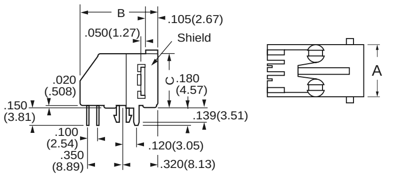


Fig. 11 – Surface Mount

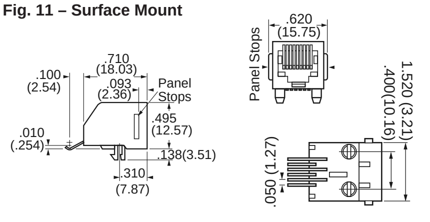


Fig. 12 – Surface Mount

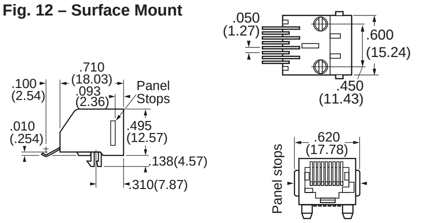


Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	AMP Part No.
5	Jack With Stops	4-4	.550 (13.97)	.625 (15.88)	.645 (16.38)	.450 (11.43)	—	A9071-ND	.66	.60	520257-2
	Jack With Stops	6-4	.630 (16.00)	.625 (15.88)	.645 (16.38)	.530 (13.46)	—	A9072-ND	.70	.64	520258-2
	Jack With Panel Stops	6-6	.630 (16.00)	.625 (15.88)	.645 (16.38)	.530 (13.46)	—	A9073-ND	.72	.66	520258-3
	Jack With Stops	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	—	A9074-ND	.74	.68	520259-4
	Jack With Stops, Keyed	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	—	A9052-ND	.74	.60	520260-4
	Jack, Top Entry Without Stops	4-4	.455 (11.43)	.630 (16.00)	.650 (16.51)	—	.300 (7.62)	A24915-ND	.66	.53	558872-1
	Jack, Top Entry Without Stops	6-4	.530 (13.46)	.625 (15.88)	.645 (16.38)	—	.400 (10.16)	A9083-ND	1.25	1.00	520425-2
	Jack, Top Entry Without Stops	6-6	.530 (13.46)	.625 (15.88)	.645 (16.38)	—	.400 (10.16)	A9084-ND	.73	.66	520425-3
	Jack, Top Entry Without Stops	8-8	.615 (15.62)	.630 (16.00)	.645 (16.38)	—	.450 (11.43)	A9085-ND	.75	.68	556416-1
	Jack, Top Entry Without Stops, Keyed	8-8	.615 (15.62)	.630 (16.00)	.645 (16.38)	—	.450 (11.43)	A9086-ND	1.01	.81	555799-1
	Jack, Top Entry With Stops, Shielded	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	.450 (11.43)	A9087-ND	1.13	.91	557969-1
	Jack, Top Entry With Stops, Shielded, Keyed	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A24916-ND	1.13	.91	557730-1
6A	Jack With Stops	6-6	—	—	—	—	—	A9010-ND	.96	.90	555163-1
6A	Jack With Stops	6-4	—	—	—	—	—	A9011-ND	1.58	1.49	555163-2
6B	Jack With Stops	8-8	—	—	—	—	—	A9012-ND	1.01	.95	555162-1
6C	Jack With Stops, Keyed	8-8	—	—	—	—	—	A9034-ND	.83	.75	555166-1
6A	Jack Without Stops	6-6	—	—	—	—	—	A9031-ND	.77	.70	555165-1
6A	Jack Without Stops	6-4	—	—	—	—	—	A9032-ND	.75	.68	555165-2
6A	Jack Without Stops	6-2	—	—	—	—	—	A24907-ND	.95	.90	555165-5
6A	Jack Without Stops	6-6	—	—	—	—	—	A24908-ND	1.13	1.06	569026-1
6B	Jack Without Stops	8-8	—	—	—	—	—	A9033-ND	.83	.75	555164-1
6B	Jack Without Stops, Keyed	8-6	—	—	—	—	—	A24909-ND	1.22	1.15	569118-1
6C	Jack Without Stops, Keyed	8-8	—	—	—	—	—	A9035-ND	.83	.75	555167-1
7	Jack, 2 Position, Unshielded	8-8	1.00 (25.40)	1.200 (30.48)	—	—	—	A9013-ND	1.77	1.24	557560-1
	Jack, 3 Position, Unshielded	8-8	1.550 (39.37)	1.750 (44.45)	—	—	—	A9014-ND	2.65	1.84	557561-1
	Jack, 4 Position, Unshielded	8-8	2.100 (53.34)	2.300 (58.42)	—	—	—	A9015-ND	3.54	2.47	557562-1
	Jack, 5 Position, Unshielded	8-8	2.650 (67.31)	2.850 (72.39)	—	—	—	A9016-ND	4.39	3.06	557563-1
	Jack, 6 Position, Unshielded	8-8	3.200 (81.28)	3.400 (86.36)	—	—	—	A9017-ND	5.29	3.68	557564-1
	Jack, 8 Position, Unshielded	8-8	4.300 (109.22)	4.500 (114.30)	—	—	—	A9019-ND	7.04	4.90	557566-1
	Jack, 1 Position, Unshielded	8-8	.450 (11.43)	.595 (15.11)	—	—	—	A9063-ND	1.23	.98	557785-1
	Jack, 1 Position, Unshielded	10-10	.450 (11.43)	.595 (15.11)	—	—	—	A9064-ND	2.11	1.69	558065-1
	Jack, 1 Position, Unshielded, Keyed	10-10	.450 (11.43)	.595 (15.11)	—	—	—	A9065-ND	2.63	2.11	558066-1
8	Jack, 6 Position, Shielded, PCB Ground	8-8	3.200 (81.28)	3.430 (87.12)	—	—	—	A9022-ND	6.83	4.76	557572-1
	Jack, 10 Position, Shielded, Keyed, PCB Ground	8-8	.450 (11.43)	.625(15.88)	—	—	—	A9132-ND	4.19	3.36	558068-1
	Jack, 1 Position, Shielded, PCB Ground	10-10	.450 (11.43)	.625(15.88)	—	—	—	A9067-ND	3.35	2.69	558067-1
	Jack, 1 Position, Shielded, Panel Ground	10-10	.450 (11.43)	.625(15.88)	—	—	—	A9068-ND	4.19	3.36	558070-1
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.20 (81.28)	3.43 (87.12)	—	—	—	A9075-ND	8.52	7.63	557572-3
9	Jack, 1 Position, Unshielded With Panel Stops	8-8	.625 (15.88)	.840 (21.34)	.537 (13.64)	—	—	A9088-ND	2.98	2.38	558343-1
	Jack, 1 Position, Unshielded Without Panel Stops	8-8	.625 (15.88)	.840 (21.34)	.537 (13.64)	—	—	A9089-ND	1.73	1.38	558341-1
	Jack, 4 Position, Unshielded Without Panel Stops	8-8	2.3 (58.42)	.810 (20.57)	.527 (13.39)	—	—	A9096-ND	8.38	6.70	558500-1
	Jack, 6 Position, Unshielded Without Panel Stops	8-8	3.40 (86.36)	.810 (20.57)	.527 (13.39)	—	—	A9099-ND	9.65	7.72	558501-1
	Jack, 1 Position, Shielded, PC Ground	8-8	.625 (15.875)	.840 (21.34)	.537 (13.64)	—	—	A9090-ND	2.11	1.70	558342-1
	Jack, 1 Position, Shielded, Panel Ground	8-8	.625 (15.875)	.840 (21.34)	.537 (13.64)	—	—	A9095-ND	2.70	2.16	558344-1
	Jack, 4 Position, Shielded, PC Ground	8-8	2.33 (59.18)	.840 (21.34)	.537 (13.64)	—	—	A9097-ND	10.43	8.34	558503-1
	Jack, 4 Position, Shielded, Panel Ground	8-8	2.33 (59.18)	.840 (21.34)	.537 (13.64)	—	—	A9098-ND	10.43	8.34	558524-1
	Jack, 6 Position, Shielded, PC Ground	8-8	3.43 (87.12)	.840 (21.34)	.537 (13.64)	—	—	A9100-ND	9.83	7.86	558504-1
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.40 (86.36)	.810 (20.57)	.527 (13.39)	—	—	A9101-ND	12.00	9.60	558525-1
	Jack, 8 Position, Shielded, PC Ground	8-8	4.53 (115.06)	.840 (21.34)	.537 (13.64)	—	—	A9103-ND	12.58	10.06	558505-1
	Jack, 8 Position, Shielded, Panel Ground	8-8	4.53 (115.06)	.840 (21.34)	.537 (13.64)	—	—	A9104-ND	15.98	12.78	558526-1
10	Jack, PC Ground	6-6	.537 (13.64)	.720 (18.29)	.495 (12.57)	—	—	A9024-ND	1.11	1.01	555154-1
	Jack, PC Ground	6-4	.537 (13.64)	.720 (18.29)	.495 (12.57)	—	—	A9025-ND	.92	.64	555154-2
	Jack, PC Ground	8-8	.625 (15.88)	.720 (18.29)	.495 (12.57)	—	—	A9026-ND	1.19	1.09	555153-1
	Jack, PC Ground, Keyed	8-8	.625 (15.88)	.720 (18.29)	.495 (12.57)	—	—	A9056-ND	1.21	.97	556591-1
	Jack, Panel Ground	6-6	.545 (13.84)	.720 (18.29)	.495 (12.57)	—	—	A9053-ND	1.03	.82	555140-1
	Jack, Panel Ground	6-4	.545 (13.84)	.720 (18.29)	.495 (12.57)	—	—	A9054-ND	1.03	.82	555140-2
	Jack, Panel Ground	8-8	.625 (15.88)	.720 (18.29)	.495 (12.57)	—	—	A9055-ND	1.21	1.09	555141-1
11	Jack With Stops	6-6	—	—	—	—	—	A9036-ND	1.39	1.12	555077-1
	Jack With Stops	6-4	—	—	—	—	—	A9037-ND	1.38	1.11	555077-2
	Jack Without Stops	6-6	—	—	—	—	—	A24910-ND	1.39	1.12	557314-1
12	Jack, 8 Position With Stops	8-8	—	—	—	—	—	A9039-ND	1.47	1.18	555248-1
	Jack, 8 Position With Stops, Keyed	8-8	—	—	—	—	—	A9038-ND	1.84	1.48	555078-1
	Jack, 8 Position Without Stops	8-8	—	—	—	—	—	A9045-ND	1.47	1.18	555764-1
	Jack, 8 Position With Stops, Keyed, Shielded	8-8	—	—	—	—	—	A9131-ND	2.00	1.60	558178-1

† Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

AMP tyco Electronics
Authorized Distributor

Four Position Data Connector for the IEEE 802.5 Local Area Network

Kit Description:

Connector (top and bottom cover assemblies), stuffer box, ferrule, dust cover, latch lock and strain relief bushings for 45, 90 and 180 degree cable exit.

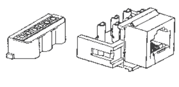
Cableless Balun Kit:

A four position cableless balun kit is available which allows the customer to assemble his own electronic components which are required to convert the balanced twisted-pair cable to unbalanced coaxial cables. This kit contains a single BNC jack receptacle, but will accept a second BNC receptacle which can be ordered separately to provide the dual port version.

Material for A9105 and A9106:

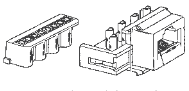
Stuffer Cap: Clear polycarbonate. **AMP-BARREL Terminal:** Tin plated phosphor bronze. **Label:** Adhesive backed polyester. **Contacts:** Nickel plated high strength copper alloy having selective gold plating in contact area and selective tin plating in AMP-BARREL terminal area. **Housing:** Black thermoplastic, 94V-0 rated. **Conductor Type:** Solid or stranded having .048 max. insulation O.D.

Fig. 1 A4004



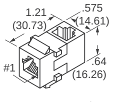
Three Pair Modular Jack
(6 Pos.) IBM Equivalent
P/N: 831575

Fig. 2 A4005



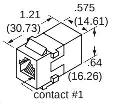
Four Pair Modular Jack
(8 Pos.) IBM Equivalent
P/N: 6091030

Fig. 3



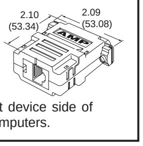
Compact couplers for two modular plugs; couplers snap into 0.585" x 0.765" (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

Fig. 4



Compact couplers for two modular plugs; couplers snap into 0.585" x 0.765" (14.86mm x 19.43mm) rectangular wallplate cut-outs. Wired one-to-one.

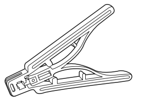
Fig. 5



These versatile connectors convert a 25 position plug or receptacle interface to modular jack interface. Transition Connectors are used most often with data, data-over-voice, and on the dropside or output device side of mainframes, personal or business computers.

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Category 3 Modular Telephone Jack						
1	6	IBM	A4004-ND	6.57	5.88	553983-1
2	8	IBM	A4005-ND	5.01	3.49	554546-1
1	6	Commercial	A9105-ND	5.15	4.12	554171-1
2	8	Commercial	A9106-ND	5.38	4.30	554578-1
Category 3 Panel Mount Coupler						
3	6	Right Angle	A9107-ND	4.15	3.32	555049-1
	8	Right Angle	A9108-ND	4.43	3.54	555051-1
4	6	In-Line	A9109-ND	4.10	3.28	555050-1
	8	In-Line	A9110-ND	4.88	4.37	555052-1
RS-232 to Modular Jack						
5	6	DB25P to RJ11 (6-6)	A23462-ND	11.92	10.43	748100-1
	6	DB25S to RJ11 (6-6)	A23463-ND	34.72	30.38	748152-1
	8	DB25P to RJ45 (8-8)	A23460-ND	18.51	15.43	747772-1
	8	DB25S to RJ45 (8-8)	A23461-ND	12.14	10.63	747868-1

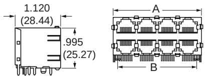
Modular Plugs Tooling



• Strips and terminates cable • Lightweight • Low cost

A9989-ND Crimp Tool for RJ-11(2, 4, & 6) Position Modular Plugs **$24.48**

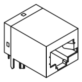
Stacked Modular Jacks



Housing: Polysulfone, black, UL 94V-0 rated **Contact:** .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin-lead on solder tails, over .000050 (0.00127) nickel underplate **Shield:** .010 (0.25) copper alloy tin-lead plated terminals per port: 8 X 8

Description	Ports Terminals	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded With Panel Ground							
2x1 Ports	2-8	.68 (17.27)	.45 (11.43)	A24917-ND	7.85	6.28	569381-1
2x3 Ports	6-8	1.78 (45.21)	1.55 (39.37)	A24189-ND	14.90	11.92	569261-1
2x4 Ports	8-8	2.33 (59.18)	2.10 (53.34)	A24911-ND	12.10	9.68	569262-1
2x6 Ports	12-8	3.43 (87.12)	3.20 (81.28)	A24912-ND	14.68	11.74	569263-1
2x8 Ports	16-8	4.53 (115.06)	4.30 (109.22)	A24913-ND	23.15	18.52	569264-1

Modular Jack with Shorting Bar

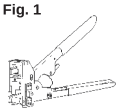


Housing: Polysulfone, black, UL 94V-0 rated **Contact:** .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin-lead on solder tails, over .000050 (0.00127) nickel underplate **Shield:** .010 (0.25) copper Alloy tin-lead plated

Description	Shorting Configurations	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded PCB Ground Jack					
8-Position RJ-48-X	1 to 4 & 2 to 5	A24914-ND	6.88	5.50	557789-1

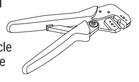
Modular Crimp Tooling

Fig. 1



Cuts, strips, crimps and terminates modular plug connectors. Features: color-coded dies, a cable jacket stripper, smooth ratcheting action to assure positive connector termination and spring-actuated and cushioned handles for fatigue-free use. Available as entire crimping tool, or dies may be purchased separately. Overall size: 7"

Fig. 2



Ratchet control provides complete termination cycle Interchangeable die sets.

Fig.	Description	Digi-Key Part No.	Price Each	AMP Part No.
1	Modular Plug Crimp Tool without Dieset	A9931-ND	83.39	2-231652-0
	Modular Plug Crimp Tool with 4-6 Dieset	A9902-ND	113.99	1-231652-3
	Modular Plug Crimp Tool with 6-6 Dieset	A9901-ND	113.99	2-231652-8
	Mod. Plug Crimp Tool w/ 6-6 Long Body Dieset	A9029-ND	113.99	2-9231652-7
	Modular Plug Crimp Tool with 6-6 Offset Dieset	A9930-ND	113.99	2-231652-6
	Modular Plug Crimp Tool with 8-8 Dieset	A9900-ND	113.99	2-231652-1
	Mod. Plug Crimp Tool w/ 8-8 High Perfor. Dieset	A9929-ND	113.99	3-231652-0
—	4-Position Handset Dieset	A9906-ND	38.25	853400-3
	4-6 Position Die Set	A9905-ND	38.25	853400-8
	6-6 Position Long Body Die Set	A9030-ND	38.25	853400-7
	6-6 Position Offset Die Set	A9927-ND	38.25	853400-6
	8-8 Position Die Set	A9904-ND	38.25	853400-1
	8-8 Position High Perform. Die Set	A9926-ND	38.25	1-853400-0
—	Replacement Wire Strip. Blade Set Kit	A9976-ND	34.43	231662-4
	Wire Strip. Replacement Blades	A9928-ND	4.65	231662-5
2	Pro-Crimper II Hand Tool without Dies	A9996-ND	66.00	354940-1
	10-Position, Pro-Crimper II	A9798-ND	288.00	58560-1
—	10-Position Die Set Only, Pro-Crimper II (Use with A9996-ND)	A9799-ND	252.00	58560-2
—	Crimp Tool, External Strain Relief, Pro-Crimper II	A9800-ND	192.75	224928-1
	Die Set, External Strain Relief (for A9996-ND)	A9801-ND	140.25	224928-2

Hand Tool Kit

Contents include: Carrying case with frame; RJ-11 (4-&-6) RJ-45 (8)-Position die sets, blade replacement kit and small screwdriver.

A9040-ND Production Tool Kit **$178.39**

Production Tool Kit

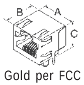
Carrying case with frame; 4-Position handset, RJ-11 (4-&-6) RJ-45 (8)-Position die sets, blade replacement kit and small screwdriver.

A9967-ND Production Tool Kit............ **$210.95**

molex Waldom ELECTRONICS

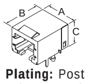
Modular Jacks

Fig. 1



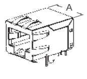
Housing: Black glass-filled high temperature nylon, UL 94V-0 **Contact:** Gold per FCC 68.5 Specification **Plating:** 1.27 (50µ")min. Gold in contact area and 1.27µm (50µ") Tin/Lead in tail area both over nickel overall **Temperature:** -40°C to +80°C

Fig. 2



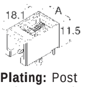
Housing: Black glass-filled nylon, UL 94V-0 **Contact:** Phosphor Bronze **Plating:** Post plate 1.27 to 1.52µm (50 to 60µ") Gold in contact area,1.90µm (75µ") min. (90/10) Tin/Lead in tail area both over nickel overall **Temperature:** -40 to +80°C

Fig. 3



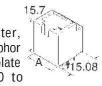
Housing: Black glass-filled nylon, UL 94V-0 **Contact:** Phosphor Bronze **Plating:** Post plate 1.27 to 1.52µm (50 to 60µ") Gold in contact area,1.90µm (75µ") min. (90/10) Tin/Lead in tail area both over nickel overall **Temperature:** -40°C to +80°C

Fig. 4



Housing: Black polyester, UL 94V-0 **Contact:** Phosphor Bronze **Plating:** Post plate 1.27 to 1.52 µm (50 to 60µ") Gold in contact area, 1.90µm (75µ") min. (90/10) Tin/Lead in tail area both over nickel overall **Temperature:** -40°C to +80°C

Fig. 5



Housing: Gray polyester, UL 94V-0. **Contact:** Phosphor Bronze **Plating:** Post plate 1.27 to 1.52 µm (50 to 60µ") Gold in contact area, 1.90µm (75µ") min. (90/10) Tin/Lead in tail area both over nickel overall. **Temperature:** -40°C to +80°C. **Note:** Panel cutout SMT are Black polyester, UL 94V-0

Fig.	Circuits-Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Right Angle, Low Profile Shielded with Lightpipes									
1	8-8	16.38	15.39	13.54	WM1637-ND	3.61	2.94	2.26	43860-0010-TR80
Right Angle, Low Profile - Inverted Unshielded									
1	6-4	15.75	15.39	13.21	WM5430-ND	1.44	1.17	.90	43860-0003
	6-6	15.75	15.39	13.21	WM5431-ND	1.69	1.38	1.06	43860-0002
	8-8	15.75	15.39	13.21	WM5432-ND	1.82	1.48	1.14	43860-0001
Right Angle, Low Profile - Inverted Shielded with All Panel Grounding Tabs									
1	6-4	16.38	15.39	13.54	WM5433-ND	3.06	2.49	1.92	43860-0015
	6-6	16.38	15.39	13.54	WM5434-ND	3.12	2.54	1.96	43860-0014
	8-8	16.38	15.39	13.54	WM5435-ND	3.25	2.65	2.04	43860-0013
Right Angle, Low Profile - Inverted Shielded with Offset Panel Grounding Tabs									
1	6-4	16.38	15.39	13.54	WM5436-ND	3.06	2.49	1.92	43860-0006
	6-6	16.38	15.39	13.54	WM5437-ND	3.12	2.54	1.96	43860-0005
	8-8	16.38	15.39	13.54	WM5438-ND	3.25	2.65	2.04	43860-0004
Right Angle, Low Profile Unshielded									
2	4-4	11.18	18.03	11.58	WM5439-ND	1.77	1.44	1.11	43202-4101
	6-2	13.21	18.03	11.58	WM5440-ND	1.60	1.30	1.01	43202-6107
	6-4	13.21	18.03	11.58	WM5441-ND	1.70	1.38	1.07	43202-6105
	6-6	13.21	18.03	11.58	WM5442-ND	1.89	1.54	1.19	43202-6101
	8-4	15.24	18.03	11.58	WM5443-ND	1.88	1.53	1.18	43202-8119
	8-6	15.24	18.03	11.58	WM5444-ND	1.97	1.61	1.24	43202-8116
	8-8	15.24	18.03	11.58	WM5445-ND	2.01	1.64	1.26	43202-8104
	8-10	15.24	18.03	11.58	WM5446-ND	2.05	1.67	1.29	43202-8101
Right Angle, Low Profile									
3	8-8	16.38	—	—	WM1635-ND*	3.12	2.54	1.96	43202-8816-TR80
	8-8	16.38	—	—	WM1636-ND**	3.12	2.54	1.96	43202-8817-TR80

Fig.	Circuits-Contacts	Key	Dim. (mm) A	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Right Angle - Low Profile								
4	4-4	no	11.18	WM5410-ND	1.36	1.11	.86	95001-2441
	6-4	no	13.21	WM5411-ND	1.51	1.23	.95	95001-2641
	6-6	no	13.21	WM5412-ND	1.58	1.29	.99	95001-2661
	8-8	no	15.24	WM5414-ND	1.66	1.36	1.05	95001-2881
	8-8	yes	15.24	WM5415-ND	2.51	2.04	1.57	95001-2882
Right Angle - Low Profile SMT								
4	4-4	no	11.18	WM5416-ND	2.37	1.93	1.49	95001-6441
	6-4	no	13.21	WM5417-ND	2.72	2.22	1.71	95001-6641
	6-6	no	13.21	WM5418-ND	2.94	2.39	1.84	95001-6661
	8-8	no	15.24	WM5419-ND	3.15	2.57	1.98	95001-6881
	8-8	yes	15.24	WM5420-ND	3.51	2.86	2.20	95001-6882
Vertical, Standard Profile with Small Panel Cutout								
5	4-4	no	11.18	WM5421-ND	1.36	1.11	.86	95003-2441
	6-4	no	13.21	WM5422-ND	1.51	1.23	.95	95003-2641
	6-6	no	13.21	WM5423-ND	1.58	1.29	.99	95003-2661
	8-8	no	15.24	WM5424-ND	1.79	1.46	1.13	95003-2881
	8-8	yes	15.24	WM5425-ND	2.32	1.89	1.46	95003-2882
Vertical, Standard Profile with Small Panel Cutout SMT								
5	4-4	no	11.18	WM5426-ND	1.79	1.46	1.13	95003-6441
	6-4	no	13.21	WM5427-ND	1.83	1.49	1.15	95003-6641
	6-6	no	13.21	WM5428-ND	1.94	1.58	1.21	95003-6661
	8-8	no	15.24	WM5429-ND	2.08	1.69	1.30	95003-6881-TB36

***No Top or Side Tabs** **Top Tabs

Modular Connectors

Fig. 1 — Series SI, 64, 70, 71

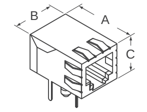


Fig. 2 — Series SI

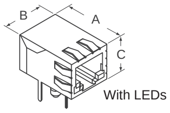


Fig. 3 — Series 30, 36, 37, 39

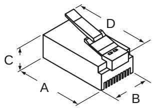


Fig. 4 — Series 65, 71

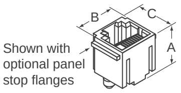


Fig. 5 — Series 66, 71

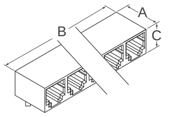


Fig. 6 — Series 68

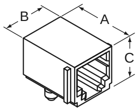


Fig. 7 — Series 71, SI

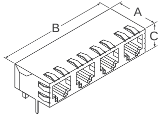


Fig. 8 — Series 73, SI

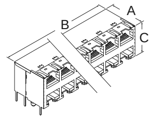


Fig. 9 — Series 80

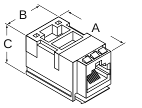


Fig. 10 — Series SI *NEW!*

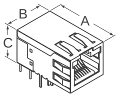
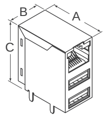
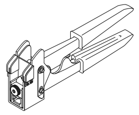


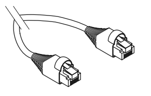
Fig. 11 — Series SI *NEW!*



CRIMP TOOL



CAT5e and CAT6 Jumpers Available Through Digi-Key®



Enhanced CAT-5 Cords: Enhanced patch cords built using high performance Stewart 37 Series plugs optimized for consistent, reliable performance in high speed networking applications. **CAT-6 Cords:** Patch cords built using high performance Stewart 39 Series plugs which are designed & manufactured to meet or exceed the current EIA/TIA CAT-6 draft specs.

Descrip. Ft. (Meter)	Digi-Key Part No.	Price Each
Cat-5 — Enhanced		
3' (.914)	380-1064-ND	8.22
5' (1.524)	380-1066-ND	8.98
7' (2.134)	380-1068-ND	9.77
10' (3.048)	380-1070-ND	10.92
15' (4.572)	380-1072-ND	12.84
20' (6.096)	380-1074-ND	15.35
25' (7.62)	380-1076-ND	17.99
Cat-6		
3' (.914)	380-1063-ND	12.51
5' (1.524)	380-1065-ND	13.66
7' (2.134)	380-1067-ND	14.85
10' (3.048)	380-1069-ND	16.63
15' (4.572)	380-1071-ND	19.97
20' (6.096)	380-1073-ND	23.66
25' (7.62)	380-1075-ND	27.56

Crimp Tools and Die Sets

Description	Digi-Key Part No.	Price Each	Stewart Part No.
Crimp Tool W/4 Position Die Set	380-1055-ND	82.50	2990001-01
Crimp Tool W/6 Position Die Set	380-1056-ND	82.50	2990002-01
Crimp Tool W/8 Position Die Set	380-1057-ND	82.50	2990003-01
Crimp Tool W/10 Position Die Set	380-1058-ND	82.50	2990007-01
4 Position Die Set Modular	380-1059-ND	18.00	2990004-01
6 Position Die Set Modular	380-1060-ND	18.00	2990005-01
8 Position Die Set Modular	380-1061-ND	18.00	2990006-01
10 Position Die Set Modular	380-1062-ND	18.00	2990008-01

Plugs and Jacks:

SI Series: MagJack® Modular Jacks with Integrated Magnetics. The SI Series MagJack connectors offers filtering capabilities for your high-speed network and telecom applications. By integrating the magnetics into the jack body, MagJack high-speed connectors improve our signal while saving you board space.
Note: Pin without electrical connections are omitted.

30 Series: Unshielded modular plugs offer superior performance for voice, data, and high-speed networking applications.
36 Series: Shielded modular plugs provide a highly reliable connection to jacks for high-speed networking applications. Superior shielding characteristics make the 36 Series plugs ideal for environments that require protection from EMI.
Series 37: Category 5 modular plugs are designed to provide exceptional performance in high-speed communication applications. All 37 Series plugs use electropolished, 50-microinch gold-plated contacts for the most reliable, long-lasting performance.
Series 39: The high performance modular plug for cutting edge premises wiring applications.
Series 64, 65, & 70: The 64 and 70 Series jacks provide versatile and reliable right-angle solutions for your networking applications.
Series 66: Our extensive line of single-row harmonica jacks offers shielded and unshielded solutions for twisted-pair networking environments. The contacts are fully enclosed for maximum efficiency and long life.
Series 68: SOF-LOK™ posts use metal tabs to lock the jack tightly to the board with min. impact. The pogo-action contacts provide uniform pressure to the solder pads and absorb the shock of repeated mating cycles for max. durability.
Series 71: Our high-performance modular jacks are designed for fast installation into high-speed applications. The industry-standard, eight-position design is an easy drop-in replacement for Category 3 jacks.
Series 73: Enhanced shielding provides optimum protection against EMI, and our unique panel tabs provide high normal force for superior shielding effectiveness. The longer springs allow repeated insertions/withdrawals from a panel, and prevent "fish hooking" on the panel if overinserted. High-Performance StackJack connectors are designed for demanding Category 5 applications.
Series 80: The rugged design of our cable-ready jacks is ideal for telco, data, mobile, and coupling applications. Available with built-in strain relief.

Series	Fig.	Description	Positions Contacts	Dimensions - Inch (mm)				Digi-Key Part No.	Price Each		Stewart Part No.
				A	B	C	D		1	25	
SI	1	MagJack RJ45 W/EMI Shielding	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1077-ND*	5.82	5.46	SI-10021
		MagJack RJ45 W/EMI Shielding, Common Mode Choke	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1011-ND*	5.82	5.46	SI-20140
	2	MagJack RJ45 W/EMI Shielding, Yellow LED on Left, Green on Right	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1012-ND*	14.46	13.56	SI-40138
		MagJack RJ45 W/EMI Shielding, Green/Yellow Bi-Color LED on Both Sides	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1013-ND*	15.94	14.94	SI-40141
	7	MagJack With EMI Shielding, 2 Port, 10/100BT, Green LED	8-8	.828 (21.03)	1.220 (30.99)	.545 (13.84)	—	380-1083-ND* *NEW!*	14.30	13.41	SI-40131
		MagJack With EMI Shielding, 4 Port, 10/100BT	8-8	.865 (21.97)	2.354 (59.79)	.545 (13.84)	—	380-1079-ND* *NEW!*	27.87	26.13	SI-10022
		MagJack With EMI Shielding, 4 Port, 10/100BT, Green LED	8-8	.865 (21.97)	2.354 (59.79)	.545 (13.84)	—	380-1084-ND* *NEW!*	34.82	32.64	SI-40144
	8	MagJack With EMI Shielding, 8 Port, 10/100BT	8-8	1.103 (28.02)	2.329 (59.16)	1.004 (25.50)	—	380-1080-ND* *NEW!*	37.18	30.86	SI-30005
		MagJack With EMI Shielding, 12 Port, 10/100BT	8-8	1.103 (28.02)	3.429 (87.10)	1.004 (25.50)	—	380-1081-ND* *NEW!*	55.76	46.29	SI-30006
		MagJack With EMI Shielding, 16 Port, 10/100BT	8-8	1.103 (28.02)	4.529 (115.04)	1.004 (25.50)	—	380-1082-ND* *NEW!*	74.34	61.71	SI-30019
	10	MagJack With EMI Shielding, 1 Port, 10/100BT, Green LED	8-8	1.000 (25.40)	.635 (16.13)	.550 (13.97)	—	380-1086-ND* *NEW!*	5.63	5.28	SI-50170
		MagJack With EMI Shielding, 1 Port, 10/100/1000BT, Green LED	—	1.300 (33.02)	.661 (16.79)	.536 (13.61)	—	380-1085-ND* *NEW!*	11.90	11.16	SI-50080
	11	MagJack Dual USB W/EMI Shielding, Green and Yellow LED	—	1.090 (27.68)	.751 (19.08)	1.238 (31.45)	—	380-1087-ND* *NEW!*	14.05	13.17	SI-70022
30	3	Plug, Unshielded, Stranded/Solid	6-2	.525 (13.33)	.380 (9.65)	.260 (6.60)	.534 (13.57)	380-1001-ND	.19	.18	940-SP-3026
		Plug, Handset, Unshielded, Stranded/Solid	4-4	.525 (13.33)	.300 (7.62)	.260 (6.60)	.485 (12.32)	380-1002-ND	.22	.21	940-SP-3044
		Plug, Unshielded, Stranded/Solid	6-4	.525 (13.33)	.380 (9.65)	.260 (6.60)	.534 (13.57)	380-1003-ND	.22	.21	940-SP-3046
		Plug, Unshielded, Stranded/Solid	6-6	.525 (13.33)	.260 (6.60)	.260 (6.60)	.534 (13.57)	380-1004-ND	.26	.24	940-SP-3066
	3	Plug, Unshielded, Stranded/Solid	10-10	.885 (22.48)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1000-ND	.58	.54	940-SP-301010R
		Plug, Unshielded, Stranded/Solid, .038" (.965mm) OD Cable	8-8	.885 (22.48)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1005-ND	.38	.36	940-SP-3088R
		Plug, Unshielded, Stranded/Solid, .040" (1.02mm) OD Cable	8-8	.885 (22.48)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1006-ND	.42	.39	940-SP-3088R-A133
36	3	Plug, Shielded, Stranded/Solid	8-8	1.046 (26.57)	.460 (11.68)	.360 (9.14)	—	380-1007-ND	1.09	1.02	940-SP-360808-A108
37	3	Plug, CAT-5	8-8	.884 (22.46)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1008-ND	.48	.45	943-SP-370808M2-A264
		Plug, CAT-5, Shielded	8-8	.884 (22.46)	.460 (11.68)	.360 (9.14)	—	380-1009-ND	1.34	1.26	943-SP-370808SM2A264
39	3	Plug, CAT-6	8-8	.884 (22.46)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1014-ND	2.08	1.95	SS-39100-002
64	1	Jack, Unshielded Without Stops	10-10	.815 (20.70)	.605 (15.36)	.505 (12.83)	—	380-1015-ND	1.06	.99	SS-641010-NF
		Jack, 1pc Shield Without Stops	10-10	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1016-ND	1.76	1.65	SS-641010S-A-NF
		Jack, Unshielded Without Stops	4-4	.815 (20.70)	.445 (11.30)	.505 (12.83)	—	380-1017-ND	.77	.72	SS-6444-NF
		Jack, Unshielded Without Stops	6-4	.815 (20.70)	.530 (13.46)	.505 (12.83)	—	380-1018-ND	.93	.87	SS-6446-NF
		Jack, Unshielded Without Stops	6-6	.815 (20.70)	.530 (13.46)	.505 (12.83)	—	380-1019-ND	.93	.87	SS-6466-NF
		Jack, Shielded Without Stops	6-6	.850 (21.59)	.545 (13.84)	.545 (13.84)	—	380-1020-ND	1.63	1.53	SS-6466S-A-PG4-BA-50
		Jack, Unshielded With Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	—	380-1021-ND	.86	.81	SS-6488-FLS
		Jack, Unshielded Without Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	—	380-1022-ND	.86	.81	SS-6488-NF
		Jack, 1pc Shield With Stops	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1023-ND	1.57	1.47	SS-6488S-A-FLS
		Jack, 1pc Shield Without Stops	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1024-ND	1.86	1.74	SS-6488S-A-NF
		Jack, 1pc Shield Without Stops, Standard Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1025-ND	1.86	1.74	SS-6488S-A-PG4-BA
65	4	Jack, Unshielded Without Stops	10-8	.650 (16.51)	.615 (15.62)	.627 (15.93)	—	380-1026-ND	.86	.81	SS-650810-A-NF
		Jack, 1pc Shield With Stops	10-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	—	380-1027-ND	2.27	2.13	SS-650810S-A-FLS
		Jack, 1pc Shield Without Stops	10-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	—	380-1028-ND	2.27	2.13	SS-650810S-A-NF
		Jack, Unshielded Without Stops	10-10	.650 (16.51)	.615 (15.62)	.627 (15.93)	—	380-1029-ND	1.70	1.59	SS-651010-A-NF
		Jack, Unshielded Without Stops	4-4	.650 (16.51)	.455 (11.56)	.650 (16.51)	—	380-1030-ND	1.76	1.65	SS-6544-NF
66	5	Jack, Unshielded, 2 Port Without Stops	6-6	.815 (20.70)	.848 (21.54)	.503 (12.78)	—	380-1031-ND	3.71	3.48	SS-666602-NF
		Jack, Unshielded, 4 Port Without Stops	6-6	.815 (20.70)	1.744 (44.30)	.503 (12.78)	—	380-1032-ND	4.93	4.62	SS-666604-NF
		Jack, Shielded, 4 Port Without Stops	8-8	.865 (21.97)	2.100 (53.34)	.545 (13.84)	—	380-1035-ND	6.50	6.09	SS-668804S-A-PG4-AC
		Jack, Unshielded, 6 Port Without Stops	6-6	.815 (20.70)	2.640 (67.06)	.503 (12.78)	—	380-1033-ND	11.17	10.47	SS-666606-NF
		Jack, Unshielded, 4 Port Without Stops	8-8	.815 (20.70)	4.300 (109.22)	.523 (13.28)	—	380-1034-ND	3.20	3.00	SS-668804-NF
		Jack, Shielded, 8 Port Without Stops	8-8	.865 (21.97)	4.300 (109.22)	.545 (13.84)	—	380-1036-ND	11.23	10.53	SS-668808S-A-PG4-AC
68	6	Jack, Unshielded, With Stops	6-6	.725 (18.42)	.526 (13.34)	.505 (12.83)	—	380-1037-ND	2.88	2.70	SS6866B-FLS-C40
70	1	Jack, Unshielded Without Stops	10-8	.712 (18.08)	.600 (15.24)	.453 (11.51)	—	380-1038-ND	1.09	1.02	SS-700810-NF
		Jack, 1pc Shield Without Stops, Alternate Style Shield Ground Tail	10-8	.738 (18.74)	.626 (15.90)	.475 (12.06)	—	380-1039-ND	2.43	2.28	SS-700810S-A-PG4-1-BA
		Jack, 1pc Shield Without Stops	10-8	.738 (18.74)	.626 (15.90)	.475 (12.06)	—	380-1040-ND	2.43	2.28	SS-700810S-A-PG4-BA
		Jack, Unshielded Without Stops	6-2	.712 (18.08)	.525 (13.33)	.453 (11.51)	—	380-1041-ND	1.47	1.38	SS-7026-NF
		Jack, Unshielded Without Stops	6-4	.712 (18.08)	.525 (13.33)	.453 (11.51)	—	380-1042-ND	1.54	1.44	SS-7046-NF
		Jack, Unshielded Without Stops	6-6	.712 (18.08)	.525 (13.33)	.453 (11.51)	—	380-1043-ND	1.63	1.53	SS-7066-NF
71	1	Jack, Unshielded Without Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	—	380-1046-ND	1.02	.96	SS-7188-NF
		Jack, 1pc Shield Without Stops, Without Panel Stop Flanges	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	—	380-1047-ND	1.98	1.86	SS-7188S-A-NF
		Jack, 1pc Shield Without Stops, Alternate Style Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1048-ND	1.98	1.86	SS-7188S-A-PG4-1-BA
		Jack, 1pc Shield Without Stops, Standard Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1049-ND	1.98	1.86	SS-7188S-A-PG4-BA
	4	Jack, Unshielded Without Stops	8-8	.650 (16.51)	.615 (15.62)	.644 (16.36)	—	380-1050-ND	.93	.87	SS-7188V-A-NF
		Jack, Standard Shield Without Stops	8-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	—	380-1051-ND	2.62	2.46	SS-7188VS-A-NF
	5	Jack, 1pc Shield, 2 Port Without Stops	8-8	.815 (20.70)	1.205 (30.61)	.523 (13.28)	—	380-1044-ND	7.97	7.47	SS-718802S-A-NF
	7	Jack, 1pc Shield, 4 Port	8-8	.815 (20.70)	2.305 (58.55)	.523 (13.28)	—	380-1045-ND	9.44	8.85	SS-718804S-A-PG4-AC
73	8	Jack, Shielded, 12 Port Without Stops	8-8	1.103 (28.02)	3.429 (87.10)	1.004 (25.50)	—	380-1052-ND	16.80	15.75	SS-73100-046
		Jack, Shielded, 16 Port Without Stops	8-8	1.103 (28.02)	4.529 (115.04)	1.004 (25.50)	—	380-1053-ND	24.00	22.50	SS-73100-047
80	9	Jack, Unshielded, Cable Ready	10-8	1.300 (33.02)	.750 (19.05)	.780 (19.81)	—	380-1078-ND	6.24	5.85	SS-800810SB-SP50-040-250

*** Note: Pins without electrical connections are omitted.**

Corcom / tyco Electronics
Authorized Distributor

Filtered Modular Jacks

Jack design and component selection compatible with equipment registered under FCC Part 68. UL Recognized. CSA Certified. U.S. Patent No. 4,695,115 and U.S. Patent No. 4,772,224 and a variety of international patents.
RJ11 / RJ45 SERIES, Shielded: The metal shield provides additional protection, and is available with RFI gasket style spring fingers to provide a low impedance ground path across the interface.

Fig. 1

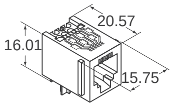


Fig. 2

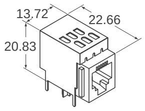


Fig. 3

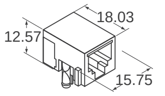


Fig. 4

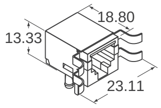


Fig. 5

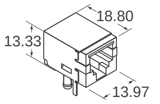


Fig. 6

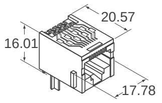


Fig. 7

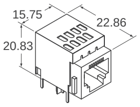


Fig. 8

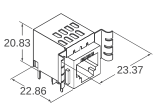


Fig. 9

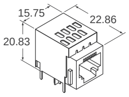


Fig. 10

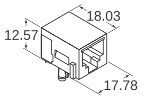


Fig. 11

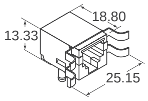


Fig. 12

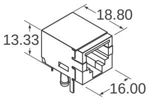


Fig. 13

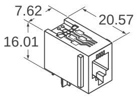


Fig.	Description	Position Con-tacts	Ferrites	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
RJ11 Series								
1	Unshielded	6-2	Sleeves	CCM9000-ND	2.57	1.80	1.50	RJ11-2L-S
	Unshielded	6-4	Sleeves	CCM9001-ND	2.86	2.00	1.67	RJ11-4L-S
	Unshielded	6-6	Sleeves	CCM9002-ND	3.15	2.20	1.84	RJ11-6L-S
	Unshielded	6-2	Block	CCM9003-ND	2.72	1.90	1.59	RJ11-2L-B
	Unshielded	6-4	Block	CCM9004-ND	2.86	2.00	1.67	RJ11-4L-B
	Unshielded	6-6	Block	CCM9005-ND	3.00	2.10	1.75	RJ11-6L-B
2	Shielded	6-4	Sleeves*	CCM9010-ND	3.80	2.66	2.22	RJ11-4L2-S
	Shielded	6-6	Sleeves*	CCM9011-ND	4.09	2.86	2.39	RJ11-6L2-S
	Shielded	6-4	Block*	CCM9012-ND	3.80	2.66	2.22	RJ11-4L2-B
	Shielded	6-6	Block*	CCM9013-ND	3.95	2.76	2.30	RJ11-6L2-B
3	Unshielded	6-6	Block	CCM1394-ND	2.63	1.84	1.54	RJ11-6N-B
	Unshielded	6-6	Sleeves	CCM1395-ND	2.80	1.96	1.64	RJ11-6N-S
4	Shielded	6-6	Block	CCM1396-ND	3.09	2.16	1.80	RJ11-6N3-B
	Shielded	6-6	Sleeves	CCM1397-ND	3.23	2.26	1.89	RJ11-6N3-S
5	Shielded	6-6	Block	CCM1398-ND	3.09	2.16	1.80	RJ11-6N4-B
	Shielded	6-6	Sleeves	CCM1399-ND	3.23	2.26	1.89	RJ11-6N4-S

Fig.	Description	Position Con-tacts	Ferrites	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
RJ45 Series								
6	Unshielded	8-8	Sleeves	CCM9050-ND	3.66	2.56	2.14	RJ45-8L-S
	Unshielded	8-8	Block	CCM9052-ND	3.32	2.32	1.94	RJ45-8L-B
7	Shielded	8-8	Sleeves*	CCM9051-ND	4.80	3.36	2.81	RJ45-8L2-S
	Shielded	8-8	Block*	CCM9053-ND	4.49	3.14	2.62	RJ45-8L2-B
8	Shielded	8-8	Sleeves	CCM1390-ND	9.35	6.54	5.46	RJ45-8LCT1-S
	Shielded	8-8	Block	CCM1391-ND	9.04	6.32	5.28	RJ45-8LCT1-B
9	Shielded	8-8	Sleeves	CCM1392-ND	9.35	6.54	5.46	RJ45-8LCT2-S
	Shielded	8-8	Block	CCM1393-ND	9.04	6.32	5.28	RJ45-8LCT2-B
10	Unshielded	8-8	Block	CCM1500-ND	2.63	1.84	1.54	RJ45-8N-B
	Unshielded	8-8	Sleeves	CCM1501-ND	3.00	2.10	1.75	RJ45-8N-S
11	Shielded	8-8	Block	CCM1502-ND	3.09	2.16	1.80	RJ45-8N3-B
	Shielded	8-8	Sleeves	CCM1503-ND	3.55	2.48	2.07	RJ45-8N3-S
12	Shielded	8-8	Block	CCM1504-ND	3.09	2.16	1.80	RJ45-8N4-B
	Shielded	8-8	Sleeves	CCM1505-ND	3.55	2.48	2.07	RJ45-8N4-S
RJH Series								
13	Filtered	4-4	Block	CCM9060-ND	2.92	2.04	1.70	RJH-4L-B

* Board Ground (pins only). ***Note: LCT Version incorporates 82Pf capacitors.***

CUI INC

Modular Components

Fig. 1

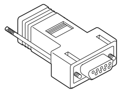


Fig. 2

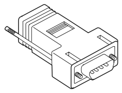


Fig. 3

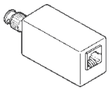


Fig. 4

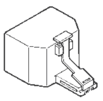


Fig. 5

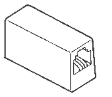


Fig. 6

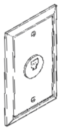


Fig. 7

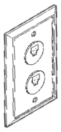


Fig.	Description	Digi-Key Part No.	Pricing 1	10	50	100	1,000
2	DB9P to RJ45 Jack (8-8)	046-0000-ND*	4.13	37.13	165.00	288.75	2062.50
1	DB9S to RJ45 Jack (8-8)	046-0001-ND*	4.13	37.13	165.00	288.75	2062.50
2	DB9P to RJ12 Jack (6-6)	046-0002-ND*	4.13	37.13	165.00	288.75	2062.50
1	DB9S to RJ12 Jack (6-6)	046-0003-ND*	4.13	37.13	165.00	288.75	2062.50
2	DB15P to RJ45 (8-8)	046-0004-ND*	4.63	41.63	185.00	323.75	2312.50
1	DB15S to RJ45 (8-8)	046-0005-ND*	4.63	41.63	185.00	323.75	2312.50
2	DB25P to RJ12 (6-6)	046-0008-ND*	4.38	39.38	175.00	306.25	2187.50
1	DB25S to RJ12 (6-6)	046-0009-ND*	4.38	39.38	175.00	306.25	2187.50
2	DB25P to RJ45 (8-8)	046-0010-ND*	4.38	39.38	175.00	306.25	2187.50
1	DB25S to RJ45 (8-8)	046-0011-ND*	4.38	39.38	175.00	306.25	2187.50
2	DB15P to RJ12 (6-6)	046-0016-ND*	4.63	41.63	185.00	323.75	2312.50
1	DB15S to RJ12 (6-6)	046-0017-ND*	4.63	41.63	185.00	323.75	2312.50
3	BNC RJ12 Converter (6-6)	048-0000-ND	16.58	149.18	663.00	1160.25	8287.50
4	4 Wire TEE Adapter 1M-2F	048-0050-ND	2.00	18.00	80.00	140.00	1000.00
4	6 Wire TEE Adapter 1M-2F	048-0051-ND	2.98	26.78	119.00	208.25	1487.50
5	6-6 Modular Coupling (crossed) #1 to #6	048-0056-ND	1.50	13.50	60.00	105.00	750.00
5	6-6 Modular Coupling (straight) #1 to #1	048-0103-ND	1.50	13.50	60.00	105.00	750.00
6	4 Wire Wall Plate (6-4)	048-0059-ND	1.73	15.53	69.00	120.75	862.50
7	6 Wire Dual Wall Plate (6-6)	048-0060-ND	2.53	22.73	101.00	176.75	1262.50
6	6 Wire Wall Plate (6-6)	048-0061-ND	2.70	24.30	108.00	189.00	1350.00
6	8 Wire Wall Plate (8-8)	048-0062-ND	3.35	30.15	134.00	234.50	1675.00

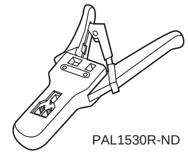
* User Configurable

Paladin Tools®

Crimp Tools

• Fully ratcheting cycle • Adjustable crimp tension • Hardened dies for long life • Crimp 4, 6, and 8 position • Cuts and strips cable • RJ45, RJ11

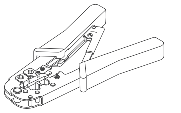
PAL1530R-ND Modular Crimp Tool **$126.99**
PAL2530-ND Replacement Blade Set (for 1530R) **$10.34**



PAL1530R-ND

All-in-One Telephone Tool

• Ratcheted design • 6 position, (RJ11/RJ12), 8-position, (RJ45) modular telephone plugs • Cuts, strips, and crimps 28-24 AWG telephone and data cables



PAL1545.1-ND All-in-One Telephone Tool **$39.71**

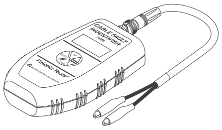
DataShark Network Termination Kit

Modular plug crimper for RJ45 and RJ11/12 connectors. Universal stripper for twisted pair and flat cable. Non-impact punchdown tool with 110 blade, 10 pieces of RJ45 modular plug connectors. Detailed instruction for cable assembly

PAL70007.1-ND Network Tool Kit **$45.98**

Cable Tester

Tester displays: length of cable, cable remaining on spool, distance to short, distance to open, and injects tone into cable. The most accurate true TDR technology with ±1.5% accuracy. Measures to 3200'. Built-in tone generator with warble tone. Scroll through pre-programmed NVP values for common cable types. Fast 1 second tests. Detects live voltage. Easy-to-read large display. Push-button controls. BNC-to-Alligator clips adapter make testing fast. Requires only one 9V battery, included.



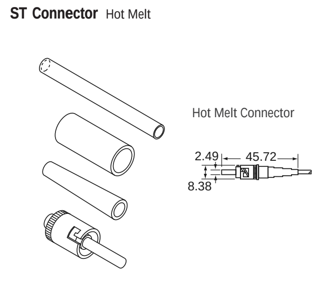
PAL1549.1-ND Cable Fault Identifier TDR Tester **$319.00**

3M Fiber Optics

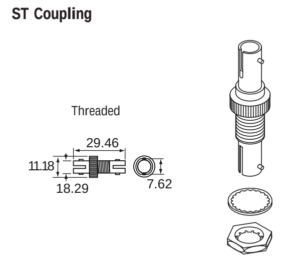
ST* Connectors and Accessories

The design of the 3M ST* Connector product line is compatible with AT&T ST* Connectors, Systimax* components, and other ST* connector products. The 3M products are made with a high quality PC finish on zirconia ceramic ferrules.

ST Connector Hot Melt



ST Coupling



ST* Bayonet Connectors

Mode	Type	Fiber Size (µm)	Attenuation	Reflection	Digi-Key Part No.	Price Each 1	10	25
Multi	Hot Melt	125	<0.2 dB typ.	≤-25 dB typ.	MF6100-ND	9.11	8.10	6.08
Multi	Crimplok	125	<0.2 dB typ.	≤-29 dB typ.	MF6901-ND	9.63	8.25	7.70

ST* Couplings

- **Operating Temperature:** -40°C to 85°C/-40°F to 185°F • **Housing Material:** Nickel Plated Zinc

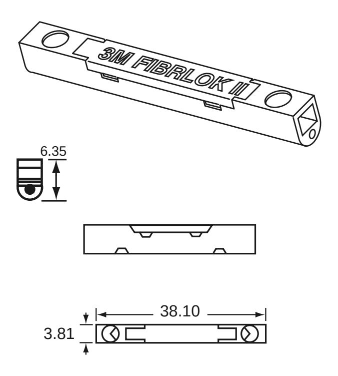
Mode	Description	Sleeve Material	Digi-Key Part No.	Price Each 1	10
Multi	Threaded Coupling w/Panel Nut & Lock Washer	Beryllium Copper	MF6112-ND	2.36	2.10
Multi	Duplex Threaded	Beryllium Copper	MF6113-ND	5.06	4.50
Single	Threaded Coupling w/Panel Nut & Lock Washer	Zirconia Ceramic	MF8119-ND	8.44	7.50

Universal Optical Fiber Splice

The Fibrlok II 2529 Universal Optical Fiber Splice can be used with either single-mode or multimode fibers with a (nominal) glass cladding diameter of 125 microns. The 2529 splice can be used with any combination of fibers with coating diameters from 250 to 900 microns.

Specifications:

- **Fiber Diameter:** 125µm
- **Mean Insertion Loss:** <0.1 dB
- **Reflectance:** <-35 dB from -40° to 80°C (-40°F to 176°F)
- **Tensile Strength:** 1.0 lb. (.45kg) min.; >3.0 lbs. (1.36kg) typical

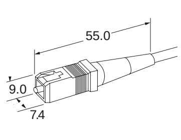


Description	Digi-Key Part No.	Price Each
Universal Optical Fiber Splice	MF2529-ND	12.25
Fiber Optic Assembly Tool	MF2501-ND	85.75

Amphenol Fiber Optic Connectors

- **Connection Loss:** 0.27 dB typical; single mode

Description	Digi-Key Part No.	Pricing 1	10	50
954 SC Series Connector				
SC Ceramic, 125µm hole dia.	AFP1011-ND	7.80	75.00	360.00



SC Connectors and Accessories

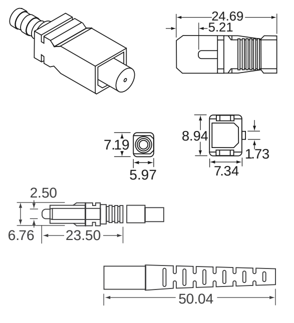
SC Connectors comply with NTT, JIS, ISO/IEC, and TIA/EIA component and ISO/IEC, CENELEC, ANSI, TIA/EIA-568A and BISCI system and cabling level standards.

Epoxy SC Connectors are available in single-mode and multimode utilizing epoxy adhesive.

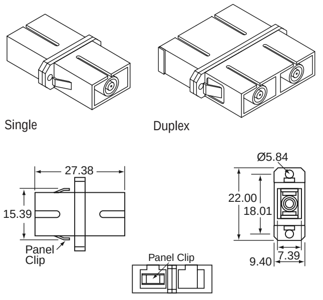
Hot-Melt SC Connectors are available in multimode, preloaded with hot melt adhesive, enabling a field termination in less than two minutes for multiple terminations.

Crimplok SC Connectors combine the speed of non-adhesive connectors with the performance characteristics of epoxy and hot-melt connectors. They are the ideal solution for emergency restoration work or for quickly making fiber connections at a desk.

SC Connector



SC Coupling



(Dimensions shown for Single Coupling)

SC Connectors

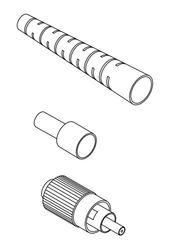
Mode	Type	Fiber Size (µm)	Attenuation	Reflection	Digi-Key Part No.	Price Each 1	10	25
Multi	Hot Melt	125	<0.2 dB typ.	≤-25 dB typ.	MF6300-ND	9.11	8.10	6.08
Multi	Crimplok	125	<0.3 dB typ.	≤-27 dB typ.	MF6900-ND	9.63	8.25	7.70
Single	Epoxy	126	<0.3 dB typ.	≤-45 dB typ.	MF8306-ND	7.76	6.90	5.18
Single	Epoxy	127	<0.3 dB typ.	≤-45 dB typ.	MF8307-ND	16.31	14.50	10.88

SC Couplings

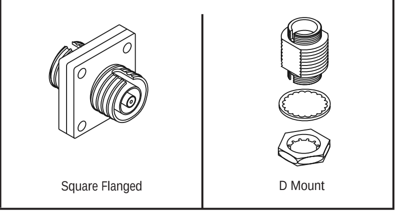
Description	Operating Temperature	Digi-Key Part No.	Price Each 1	10	25
Standard Density	-40°C – 85°C / -40°F – 185°F	MF8310-ND	7.20	6.40	4.80
Duplex, Standard Density	-40°C – 75°C / -40°F – 167°F	MF8313-ND	16.88	15.00	11.25

MF6955-ND	Crimplok Field Termination Kit for SC Connectors	$532.00

FC/PC Connectors and Accessories



FC/PC Coupling



The 3M PC/FC Connector is designed for advanced fiber optic systems requiring exceptional stability and low reflections. It is a field mountable, pull-proof connector that is fully compatible with all PC connectors adhering to NTT specifications.

FC/PC Connectors

Mode	Type	Fiber Size (µm)	Attenuation	Reflection	Digi-Key Part No.	Price Each 1	10	25
Multi	Hot Melt	125	<0.2 dB typ.	≤-25 dB typ.	MF6200-ND	12.15	10.80	8.10
Single	Epoxy	126	<0.3 dB typ.	≤-45 dB typ.	MF8203-ND	7.76	6.90	5.18

FC/PC Couplings

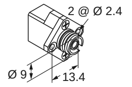
Mode	Housing Design	Operating Temperature	Digi-Key Part No.	Price Each 1	10	25
Multi	Square Flanged	-40° to 85°C/-40° to 185°F	MF6210-ND	9.00	8.00	6.00
Single	Square Flanged	-40° to 85°C/-40° to 185°F	MF8210-ND	10.13	9.00	6.75
Single	D-Mount	-40° to 85°C/-40° to 185°F	MF8211-ND	10.13	9.00	6.75

HIROSE ELECTRIC CO.,LTD.

Fiber Optics

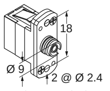
Adapters - Split Sleeve

Fig. 1



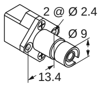
(Cut-out Dim)

Fig. 2



(Cutout Dim.)

Fig. 3



(Cut-out Dim)

Fig. 4

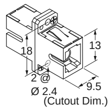


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Fig. 5

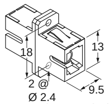

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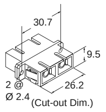
Fig. 6



(Cut-out Dim.)

Fig. 7

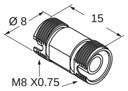


Fig. 8

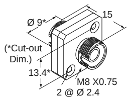


Fig.	Description	External Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	SC Hybrid SC/FC, Angled	—	H2492-ND	13.50	12.71	11.52	HSCJ-HRFCJ-B
2	SC Hybrid SC/FC, Straight	—	H2493-ND	15.52	14.61	13.24	HSCJ-HRFCJ-C
3	SC Hybrid SC/ST, Angled	—	H2494-ND	17.06	16.49	15.35	HSCJ-HSTJ-B
4	Panel Mount, Die Cast, Zirconia	—	H2495-ND	13.60	12.80	11.60	HSC-A2-D1
5	Panel Mount, Plastic, Zirconia	Blue	H2496-ND	9.05	7.92	7.17	HSC-A3-D1(02)
6	F-type, Zirconia	Blue	H2497-ND	15.25	14.36	13.01	HSCF-2A-D(P)
7	Non-Flange, Phosphor Bronze	—	H2498-ND	14.03	12.36	11.09	HRFC-A2-SF(01)
8	Cost-Effective, Phosphor Bronze	—	H2499-ND	10.69	9.42	8.45	HRFC-PA11-G1

Terminator

Fig. 1

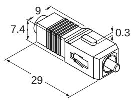


Fig. 2

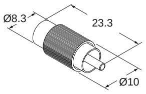


Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Plug, SC type	H2512-ND	57.34	54.48	52.23	HSC-TM-P1
2	Plug, FC type	H2513-ND	66.91	63.57	60.94	HRFC-TM-P1

MU Connectors and Adapters

Fig. 1

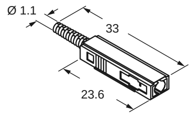


Fig. 2

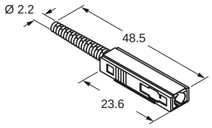


Fig. 3

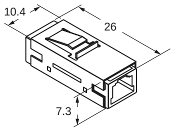


Fig. 4

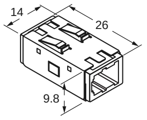


Fig.	Description	Boot Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Simplex Plug for 0.9 Buffered fiber	Blue	H2500-ND	6.83	6.01	5.33	HMUA-P1-H1
2	Simplex Plug for 2 Cable	Blue	H2501-ND	6.83	6.01	5.33	HMUA-P2-H1
3	Simplex Patch Panel Mount Adapter	—	H2502-ND	12.77	12.02	10.89	HMUA-A-3
4	Duplex Patch Panel Mount Adapter	—	H2503-ND	15.35	14.45	13.10	HMUA-2A-3

Attenuators (Maximum Input Power 10mW)

Fig. 1

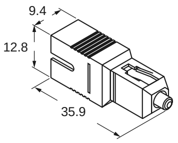


Fig. 2

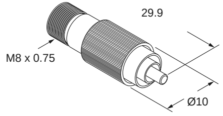
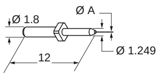


Fig.	Description	Attenuation =1.31 m	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	SC Attenuator	5dB	H2504-ND	91.76	87.17	83.57	HSC-AT8K-A05A
	SC Attenuator	10dB	H2505-ND	91.76	87.17	83.57	HSC-AT8K-A10A
	SC Attenuator	15dB	H2506-ND	91.76	87.17	83.57	HSC-AT8K-A15A
	SC Attenuator	20dB	H2507-ND	91.76	87.17	83.57	HSC-AT8K-A20A
2	FC Attenuator	5dB	H2508-ND	124.25	118.04	113.16	HRFC-AT5K-A05A
	FC Attenuator	10dB	H2509-ND	124.25	118.04	113.16	HRFC-AT5K-A10A
	FC Attenuator	15dB	H2510-ND	124.25	118.04	113.16	HRFC-AT5K-A15A
	FC Attenuator	20dB	H2511-ND	124.25	118.04	113.16	HRFC-AT5K-A20A

Ferrule

Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
0.125	H2514-ND	6.53	5.75	5.09	HMUA-F3-A125
0.1255	H2515-ND	6.53	5.75	5.09	HMUA-F3-A1255
0.126	H2516-ND	6.53	5.75	5.09	HMUA-F3-A126



AMP tyco Electronics
Authorized Distributor

Dimensions in mm.

Fiber Optics OPTIMATE® DNP (Dry Non-Polish) Connectors

Fig. 1
Single Position
Plug Assembly

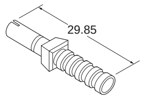


Fig. 2
Single Position
Device Mounts

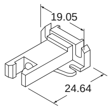
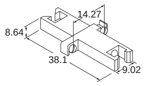


Fig. 3
Single Position
Bulkhead Receptacle



2.39 Dia. - 2 Holes

Fig. 4
Dual Position
Plug Assembly

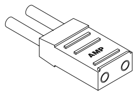


Fig. 5
Dual Position
Bulkhead Receptacle

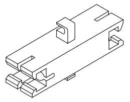
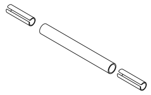
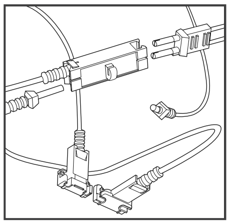


Fig. 6
Splice and
Retention Clip





Optical Characteristics: • Insertion Loss: 2dB • Ref.: FOTP 34 Method C **Environmental Characteristics:** • Temperature Range: -40°C to +60°C **Mechanical Characteristics:** • Insertion Force: 13.34N [3 lb] (plug to receptacle) • Cable retention plug: 8.89N [12 lb.]

Materials: • Retention Clip: Copper alloy, plated • Splice: Copper alloy, plated • Connectors: Thermoplastic

The economics of using fiber-optic systems is a complex subject. Comparisons of the costs of fiber-optic systems and copper-wired systems are difficult and open to debate. Proper evaluations must be based on the users' needs.

Widespread application of fiber-optic technology will depend on its providing performance equal to or superior to copper cable, and at a lower cost. That fiber-optics can outperform cable in some areas seems established. That it can do so more cheaply, is not the rule. As with many new technologies, the prices of fiber-optic components have been dropping, often dramatically. Better products at cheaper prices have been introduced continually, and manufacturers' volume production and maturity of experience are combining to produce significant price reductions. In contrast, prices have been rising for copper cable and associated hardware. Although the point at which fiber-optic systems become less expensive than copper cable systems depends on the application, fiber-optics are becoming more attractive every day.

Users evaluating fiber-optics should consider costs beyond those for the components themselves. Considerations include the education needed to design a fiber-optic system and the costs of training craftsmen and technicians to handle, install, and maintain fiber-optic systems. On the other hand, the small size, light weight, and flexibility may present offsetting cost advantages. Handling, storage, and installation costs may be reduced.

Fig.	Description	Digi-Key Part No.	Pricing 1	25	AMP Part No.
1	Single Position Plug Assembly	A1703-ND	1.09	23.50	228087-1
2	Single Position Device Mounts	A1705-ND	.96	20.77	228043-1
3	Single Position Bulkhead Receptacle	A1707-ND	1.69	36.56	228042-1
4	Dual Position Plug Assembly	A20128-ND	2.39	51.75	228088-1
5	Dual Position Bulkhead Receptacle	A20129-ND	1.74	37.69	228045-1
6	Plastic Fiber Retention Clip	A20131-ND	.23	4.07	228046-1

Description	Digi-Key Part No.	Pricing 1	5	AMP Part No.
Hot Knife, Plastic Fiber	A99100-ND	63.35	271.50	228085-1
Single Position Plastic Cutting Fixture	A99102-ND	87.01	372.90	228837-1

Note: X in Part No. = Meter Per Roll
FIBER OPTIC CABLE (O.D. = .089)

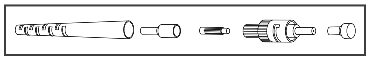
Digi-Key Part No.	Price (Meter) 5	10	15	25	50	100
A1700-X-ND	11.37	21.11	30.24	48.72	81.20	146.16

A1799-ND Technicians Guide to Fiber Optics -
For more information on the technical aspect of fiber optics **$43.04**

AMP tyco Electronics
Authorized Distributor

Fiber Optic Connectors

ST Style LightCrimp XTC Connectors

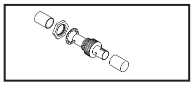


Features: • Singlemode or multimode • Just crimp it on the fiber • 2-minute termination • Epoxyless or quick-cure epoxy types • Pre-radiused PC finish (epoxy type) • Body Material: Epoxyless - aluminum; Epoxy - polymer • Coupling Nut Material: multimode epoxyless - polymer; Singlemode Epoxyless - die cast; Epoxy - die cast zinc • Storage Temp. Range: -40°C to +85°C

Fiber Size (µm)	Mode Type	Ferrule Material	Insertion Loss dB, Avg.	Oper. Temp. Range (°C)	Durability cycles, <.20 (dB) change	Digi-Key Part No.	Price Each 1	10	AMP Part No.
LightCrimp Epoxyless ST Style Connectors									
125	Multi	Plastic	0.4	-40° to +65°	500	A20100-ND	9.63	8.56	492168-1
125	Multi	St. Steel	0.4	-10° to +65°	500	A20101-ND	12.42	11.04	504034-1
125	Multi	Ceramic	0.4	-40° to +65°	1000	A20102-ND	15.05	13.38	504001-1
126	Single	Ceramic	0.2	-40° to +65°	1000	A20103-ND	36.61	32.54	504000-1
Epoxy ST Style Connectors									
125	Multi	Ceramic	0.4	-20° to +75°	1000	A20104-ND	5.90	5.24	501380-1
125	Multi	Ceramic	0.4	-20° to +75°	1000	A20105-ND	3.96	3.52	503571-1
125,140	Multi	St. Steel	0.3	-20° to +75°	500	A20106-ND	8.01	7.12	504008-3
125	Multi	Composite	0.3	-20° to +75°	5000	A20107-ND	2.52	2.24	503415-1
126	Single	Zircon/Ceramic	0.3	-20° to +75°	200	A20108-ND	6.68	5.94	502579-2

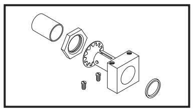
ST Style Coupling Receptacles

Free-Hanging or Panel Mount Design



Type	Sleeve Material	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Multimode	Composite	A20109-ND	2.21	1.96	501381-1
Single- or Multimode	Metal	A20110-ND	2.23	1.98	504021-1
Single- or Multimode	Ceramic	A20111-ND	6.35	5.64	502750-1

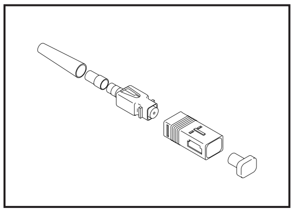
ST Style Active Device Mounts



Designed to accept multimode TO-18, TO-46, and TO-52 active devices • Nickel plated, die cast zinc • Mount to PCB or through panel • Includes positioning ring

Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Standard Height	A20142-ND	8.57	7.62	501474-1
Low Profile	A20143-ND	8.39	7.46	502585-2

SC Style Connectors



LightCrimp Epoxyless Type

Features: • Innovative crimp design • Compliant with EIA/TIA 568A • No epoxy or adhesives • Shorter assembly time • Reduced polishing time • Lower installed cost • Secure repeatable matings • No need for curing oven or power supply • Consistent performance over a wide range of temperatures **Specifications: • Attenuation @1300 nm:** Mean 0.12 dB • **Operational Temperature Cable Dependent:** 40°C to 65°C **Materials: • Connector Ferrule:** Zirconia Ceramic • **Connector Body:** Thermoplastic • **Strain Relief:** Thermoplastic

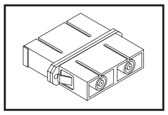
Epoxy Type

Features: • Easy to install • Singlemode or Multimode • Two versions available to match various assembly techniques • Compliant with Bellcore 326, JIS C-5973, Fibre Channel, TIA 568 • Pre-radiused ferrules **Performance Characteristics:** • **Insertion Loss:** 0.2dB typ. Return Loss: <-59dB typ. • **Temperature Range:** -40°C to +85°C; 0.1dB change typ. • **Durability:** Singlemode: 0.1dB typ. change after 200 cycles; Multimode: <0.1dB typ. change after 500 cycles

Description	Fiber Size (µm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
LightCrimp Epoxyless SC Style Connectors — 3.0mm Cable Dia.					
Simplex Multimode Connector	125	A20117-ND	17.37	15.44	503692-1
Duplex Multimode Connector	125	A20118-ND	36.18	32.16	503693-1
Epoxy SC Style Connectors — 3.0mm Cable Dia.					
Simplex Multimode Connector	125	A20112-ND	4.50	4.00	503948-1
Simplex Singlemode Connector	125	A20113-ND	7.22	6.42	504646-1
Simplex Singlemode Connector	126	A20114-ND	7.22	6.42	504646-2
Duplex Multimode Connector	125	A20115-ND	10.35	9.20	504657-1
Duplex Singlemode Connector	126	A20116-ND	14.81	13.16	504655-1

SC Coupling Adapters

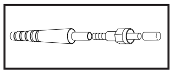
Features: • Suitable for any SC Type connector • Choice of housing colors • Metal Alignment Sleeve



Description	Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
SC Simplex Adapter	Blue	A20144-ND	6.37	5.66	502632-8
SC Simplex Adapter	Beige	A20145-ND	6.37	5.66	502632-9
SC Duplex Adapter	Blue	A20146-ND	9.90	8.80	502776-8
SC Duplex Adapter	Beige	A20147-ND	9.90	8.80	502776-9

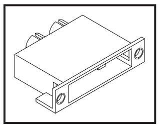
FSMA Connectors

Features: • Industry compatible with 905 and 906 style connectors • Design parameters conform to NATO and IEC interface standards • **Ferrule Material:** Stainless steel • **Connector Body Material:** Nickel-Plated brass • **Fiber Diameter:** 125µm **Performance Characteristics:** • **Insertion Loss:** 1.5dB typical • **Temperature Range:** -55°C to +105°C • **Durability:** 200 mating cycles



Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
FSMA Connector (905)	A20126-ND	15.01	13.34	504566-1
FSMA Connector (906)	A20127-ND	17.03	15.14	504014-1

FSD Style Connectors



FSD Connector **Specifications:** • Multimode • Meets specifications of FDDI PMD – ANSI X3.166 • **Insertion Loss:** typ. 0.5dB Ceramic Ferrule, 0.5 dB Polymer Ferrule • **Durability:** Ceramic Ferrule ≤0.2dB Change after 500 cycles; Polymer Ferrule ≤0.2 dB Change after 250 cycles • **Operating Temperature:** -40°C to +85°C

FSD-MC Connector Plug **Specifications:** • **Insertion Loss:** typ. 0.5dB • **Durability:** typ. ≤0.2dB Change after 500 cycles • **Operating Temperature:** -40°C to +85°C

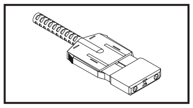
Fiber Size (µm)	Ferrule Material	Digi-Key Part No.	Price Each 1	10	AMP Part No.
FSD Connector - Multimode - Duty Dual ZIP Cable					
125	Ceramic	A20119-ND	22.84	20.30	502015-1
125	Polymer Composite	A20120-ND	22.12	19.66	503347-5
Field Keyable FSD-ST Receptacles					
Metal Multimode Receptacle		A20122-ND	20.39	18.12	502808-2
Ceramic Singlemode Receptacle		A20123-ND	28.28	25.14	502809-1

Loopback Connector

SC Low Loss Loopback Connector **Features:** • Multimode • Use for equipment testing • 0.6 dB Insertion loss • 0.5” (12.7mm) Ferrule centerline

Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
SC Loopback Connector	A20140-ND	34.43	30.60	503141-1

RSD (Retractable Shroud Duplex) Connectors



RSD Connector **Features:** • Designed to meet the requirements of the SBCON section of the ANSI X3Ts11 Fiber Channel specification currently under development • Designed to meet the intermateability details defined in the IBM Enterprise Systems Architecture/390, ESCON I/O Interface, Physical Layer specification SA23-0394-01

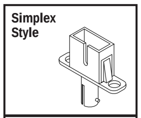
RSD Connector Plug Kit **Features:** • Multimode • Compatible with IBM ESCON connector system • Simple field assembly. **Performance Characteristics:** • **Insertion Loss:** typical 0.5dB • **Durability:** ≤0.2dB change after 500 cycles • **Temperature Range:** -20°C to +70°C

Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
ESCON Multimode DUALAN Connector Kit	A20124-ND	19.13	17.00	492181-1
ESCON Curing Fixture Kit	A9823-ND	18.27	16.24	492236-2
RSD-ST Style Receptacle	A20125-ND*	31.97	28.42	502826-2

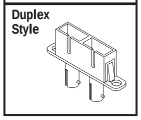
* Inter-mateable with IBM ESCON type connectors

Hybrid Adapters

Features: • Use for Multimode or Singlemode • Available with mounting screws • Adapt various connector interfaces • Metal alignment sleeve



Simplex Style



Duplex Style

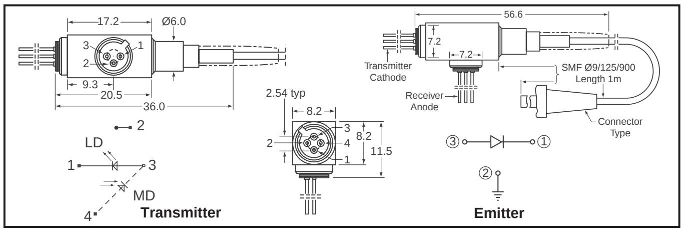
Description	Housing Material	Housing Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Simplex Style						
SC to ST	Plastic	Black	A20148-ND	6.37	5.66	502780-1
SC to ST	Plastic	Blue	A20149-ND	6.37	5.66	502780-2
SC to ST	Plastic	Beige	A20150-ND	6.37	5.66	502780-3
SC to ST	Nickel Plated	Die Cast	A20151-ND	10.06	8.94	503638-1
SC to FC	Plastic	Black	A20152-ND	6.68	5.94	502781-1
SC to FC	Plastic	Blue	A20153-ND	6.68	5.94	502781-2
SC to FC	Plastic	Beige	A20154-ND	6.68	5.94	502781-3
SC to FC	Nickel Plated	Die Cast	A20155-ND	13.66	12.14	503480-1
Duplex Style						
SC to ST	Plastic	Black	A20157-ND	9.90	8.80	503137-1
SC to ST	Plastic	Blue	A20158-ND	9.90	8.80	503137-2
SC to ST	Plastic	Beige	A20159-ND	9.90	8.80	503137-3

Infineon technologies

BIDI® Optical Standard Module

Features:
- Designed for application in passive-optical networks
- Integrated Wavelength Division Multiplexer (WDM)
- Bi-Directional Transmission in 2nd and 3rd optical window
- FP-Laser Diode with Multi-Quantum Well structure
- Class 3B Laser Product
- Suitable for bit rates up to 1.25 Gbit/s
- Ternary Photodiode at rear mirror for monitoring and control of radiant power
- Single fiber solution
- Low noise/high bandwidth PIN diode
- Hermetically sealed subcomponents, similar to TO 46
- With singlemode fiber pigtail

SBL52414GIN-ND Optical Standard Module 1310 nm Emitting, 1550 nm Receiving **$446.25**

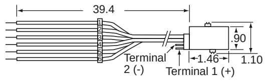


Fiber Optic Switches and Accessories

Fiber Optic Multimode Switches

Low Profile Fiber Optic Switches are miniature, board mountable devices that permit the switching of an optical signal from one fiber to another. Switching is accomplished by a slight pivoting motion of a spherical mirror which reflects the optical signal to the appropriate fiber. This patented imaging technology provides very low optical loss. Fiber Optic Switches can be terminated with any fiber optic connector.

Specifications: • **Switching Speed:** 5 msec typ. • **Operating wavelength:** 750-1450 nm • **Insertion loss at 1300nm:** 0.5 dB typical, 0.8 dB max. per FOTP-34 • **Crosstalk:** -45 dB typical per FOTP-42 • **Switch Driver:** 5V at 80mA max., 12V option available • **Fiber Type:** Graded Index 62.5/125 • **Lead Length:** 1 meter • **Operating Temperature Range:** -10°C to +65°C per FOTP-3, C2 • **Connector Style:** ST Style • **Durability:** >1 million cycles



Switch	Fiber Leads Used
1x2 SPDT	1, 2, 3
Dual 1x2 DPDT	1, 2, 3, 4, 5, 6

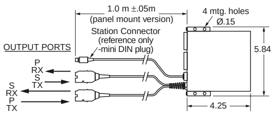
Switch Type	Circuit	Electrical Interface	Fiber Connector	Digi-Key Part No.	Price Each	AMP Part No.
1 x 2	SPDT	Straight Pin	ST Style	A20163-ND	394.80	99427-2
Dual 1 x 2	DPDT	Straight Pin	ST Style	A20164-ND	394.80	99982-2

FDDI 2000 Bypass Switches

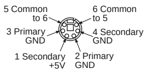
The FDDI 2000 bypass switch is a second-generation device that allows a dual-attach station to be bypassed without loss of ring integrity. The switch module contains two fully reversing optical bypass switches that direct the optical signals to the appropriate fiber according to signals on the device's electrical interface.

Features: • Increases reliability of mission-critical network applications • Meets or exceeds all ANSI standards • Low insertion loss — 1.1 dB typical, including connectors • Meets ANSI FDDI power output specification of -20 dBm

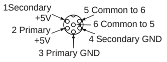
Specifications: • **Switching Speed:** 10 ms max. • **Operating Wavelength:** 750-1450 nm • **Insertion Loss:** 1.1 dB typ., 1.8 dB max. (FOTP-34, Method B – Long Launch) • **Crosstalk:** -45 dB typical (FOTP-42) • **Switch Driver:** 5V at 160mA • **Fiber Type:** 62.5/125 µm • **Operating Temp. Range:** -10°C to +65°C • **Durability:** >1 million cycles



6-Position Mini DIN Plug

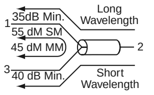


6-Pos. Circular DIN Plug



Description	Port Interface	Mounting	Digi-Key Part No.	Price Each	AMP Part No.
6-Pos. Shielded Mini Circular DIN Plug	FSD MIC	Panel	A20166-ND	988.75	209161-4
6-Pos. Shielded Circular DIN Plug	FSD MIC	Panel	A20168-ND	988.75	209161-2

Multiplexers and Demultiplexers



1 = Transmitter; 2 = Trunk Line; 3 = Receiver

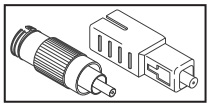
Multiplexers allow use of a single fiber for simultaneous transmission of two signals of different wavelengths. Demultiplexers separate the combined wavelengths from the single fiber into individual fibers. Both the multiplexers and demultiplexers are available for multimode as well as singlemode applications.

Multimode Specifications: • **Insertion Loss:** MUX: 0.9dB typ., 1.2dB max.; DEMUX: 0.9dB typ., 1.3dB max. (per FOTP-34, Method A) • **Directivity:** >55dB typ. • **Wavelength Bandpass:** 120 nm typ. • **Return Loss (Reflectance):** MUX: 35dB Min.; DEMUX: Port 1 – ≤-13dB; Port 2 – ≤-15dB; Port 3 – ≤-35dB • **Isolation:** Bi-Directional MUX and DEMUX: 35dB Min., 42dB typ.; Unidirectional MUX and DEMUX: 35 dB Min., 42dB typ. • **Operating Temperature:** -40°C to +65°C

Singlemode Specifications: • **Insertion Loss:** DEMUX: 0.9dB typ., 1.3dB max. (per FOTP-180) • **Directivity:** >65dB typ. • **Wavelength Bandpass:** 120 nm typ. • **Return Loss (Reflectance):** DEMUX: Port 1 – ≤-40dB; Ports 2 & 3 – ≤-55dB • **Isolation:** Unidirectional DEMUX: 35 dB Min., 42dB typ. • **Polarization Sensitivity:** <0.1dB • **Operating Temperature:** -20°C to +60°C

Fiber	Mode	.5m Cable Length	Connector	nm	Digi-Key Part No.	Price Each	AMP Part No.
62.5/125	Multimode	3mm Dia.	ST Style	850/1310	A20169-ND	465.50	99102-3
9/125	Singlemode	3mm Dia.	FC/SPC	1310/1550	A20171-ND	626.50	99717-6
9/125	Singlemode	3mm Dia.	SC/SPC	1310/1550	A20172-ND	626.50	99717-8

Singlemode Fiber Optic Attenuators



Singlemode High Performance Attenuators utilize unique all fiber mechanisms to increase the loss of an optical signal. These designs minimize reflectance. High Performance Attenuators use no filters, air-gaps, or core mismatches. **Specifications:** • **Fixed Attenuation Values:** 3- 20dB • **Reflectance:** ≤-45 dB, -50, -55 and -60dB • **Operating Temperature:** -40°C to +75°C • **Vibration Resistance:** ≤0.1 x attenuation

Attenuation (dB)	Digi-Key Part No.	Price Each	AMP Part No.
FC Dual Window Attenuators			
3	A20173-ND	67.50	209948-3
10	A20175-ND	67.50	1-209948-0
15	A20176-ND	67.50	1-209948-5
20	A20177-ND	67.50	2-209948-0
SC Dual Window Attenuators			
3	A20178-ND	67.50	209943-3
5	A20179-ND	67.50	209943-5
10	A20180-ND	67.50	1-209943-0
15	A20181-ND	67.50	1-209943-5
20	A20182-ND	67.50	2-209943-0

Kits, Tools & Accessories

Termination Kits

For AMP SC, FSMA, ST Style, and FSD Styles: Termination kits provide all the materials and tools (except epoxy) required to terminate a particular type of fiber optic connector. Tools are conveniently packaged in a handy carrying case. The kits contain polishing materials for approximately 60 connectors. The consumable items in the kit can be purchased separately.

For LightCrimp ST Style: Termination Kits include all the tools required to prepare and terminate all LightCrimp ST Style connectors.

Polishing (Lapping) Film Packets: Polishing film sheets are used with polishing bushings for hand polishing of fiber optic connectors. Most part numbers consist of a packet of ten 8.5" x 11.0" (21.59cm x 27.94cm) sheets. Each packet will polish between 60 and 80 connectors.

Consumables Kits: Contains all consumable supplies for at least 100 connectors. Epoxy (general purpose), polish film, epoxy applicators and polish pad.

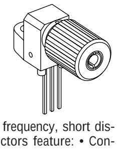
Inspection Microscope Kits: The complete microscope kit includes a handy carrying case, tripod stand, AC adapter and all adapters needed to inspect the FSMA, FSD, ST Style and SC Type Connectors.

Features: • Pre-centered adapter mount provides quick, easy focusing, and changing of connectors • Kg-3 infrared filter to protect the user • Durable, lightweight A.B.S. plastic microscope body • Lockable, high density polyethylene, double-well carrying case with antistatic foam cut-outs

Description	Digi-Key Part No.	Price Each	AMP Part No.
LightCrimp Epoxy Type Termination Kits (Epoxy Sold Separately)			
ST Style	A9828-ND	785.56	503746-1
FSMA	A9835-ND	786.24	503746-2
FSD	A9834-ND	1227.47	503746-6
SC	A9829-ND	845.67	503746-7
LightCrimp XTC Termination Tool Kit			
Mini Tool Kit	A9825-ND	712.23	492322-1
Tool Kit Without Microscope	A9826-ND	1145.74	503330-1
Tool Kit With Premium Microscope	A9827-ND	2733.83	503330-2
LightCrimp SC Style Termination Tool Kit			
LightCrimp SC Termination Kit Without Microscope	A9830-ND	1232.12	503706-1
Microscope Adapter (Universal 2.5mm)	A20215-ND	42.63	502977-1
LightCrimp SC/Ceramic With Inspection Microscope	A9831-ND	2508.01	503706-2
LightCrimp SC (Upgrade) Kit (Add to an ST Style Kit for SC Terminations)	A9832-ND	680.38	503707-1
Scribing Tools			
Sapphire-Tipped Scribe Tool	A99109-ND	51.03	504064-1
Replacement Blades for A99109-ND	A99110-ND	46.32	504290-1
Pro-Crimper II Hand Tool			
For use with FSMA – With Die Set	A99108-ND	151.38	58551-1
For use with FSMA – Die Set Only (hex die)	A20218-ND	73.50	58552-1
For use with ST and SC Style – With Die Set	A99105-ND	136.50	58433-4
For use with ST Style – Die Set Only	A20214-ND	71.75	58424-1
For use with FSD (ceramic) – With Die Set	A99107-ND	291.38	58519-1
For use with FSD (ceramic) – Die Set Only	A20217-ND	215.25	58510-1
Crimp Tool – Handle Only	A9996-ND	66.00	354940-1
Polishing Bushing			
For ST Style (Polymer Composite) - Beige Polymer	A99111-ND	6.46	503304-2
For ST Style (Ceramic, Stainless Steel) - Black Polymer	A99112-ND	6.14	503304-1
Duplex Curing Fixture Kit w/Polishing Bushing	A9833-ND	145.92	501795-1
Polishing (Lapping) Film Packets			
FSMA, FSD, RSD – 5µm, Lt. Gray, (pkg. of 10)	A20221-ND	16.87	228433-8
FC Type, D4 Type – 1µm, Green, (pkg. of 10)	A20222-ND	16.87	228433-7
ST Style, AMP SC – 0.3µm, White (pkg. of 10)	A20223-ND	16.87	228433-5
Consumables Kits			
FSMA, FSD, ST Style	A9836-ND	253.63	502306-1
FC Type, D4 Type, AMP SC, Singlemode ST Style	A9837-ND	349.55	502306-2
LightCrimp	A9838-ND	106.14	502306-3
Epoxy Curing Oven			
110 VAC Oven w/Adapter Block - Universal Block*	A20220-ND	736.70	502134-1
Microscope Kits			
100x Microscope (10x Eyepiece)	A20224-ND	1452.82	502970-1

* Universal block 12 single and 4 FSD Connectors

INDUSTRIAL
FIBER OPTICS, INC.



Fiber Optic LEDs and Detectors

Fiber Optic family of low-cost, medium frequency, short distance fiber optic LEDs and photo detectors feature: • Connector-less interface • No optical design required • Simple fiber termination and connection.

Each LED and detector consists of a PBT housing, an internal active element such as an LED or photodetector, and a cinch nut to hold the fiber in place. The PBT housing retains the active element and the cinch nut while optimizing coupling between the active element and the jacketed 1000µm plastic fiber.

Shared Ratings: Maximum Ratings and Characteristics (T_A=25°C): Operating and Storage Temperature Range (T_{OP},T_{STG}): -40° to 85°C. De-rated above 25°C: 1.33mW/°C.

Description	Reverse Voltage V_R	Power Dissipation P_{TOT} T_A=25°C	Forward Current DC I_F	Rise/Fall Time tr,tf †	Typ. Photo–sensitivity PEAK	Typ. Output Power Coupled*	Digi-Key Part No.	Price Each	IFO Part No.
Plastic Fiber Optic Infrared LED	3.0V	1P00mW	50mA	1.0/1.0 µs	950nm	100µW	FB118-ND	3.48	IF-E91A
Plastic Fiber Optic 100 Mbps Infrared LED	3.0V	60mW	60mA	7.0/7.0 ns	870nm	300µW	FB134-ND	5.25	IF-E91D
Plastic Fiber Optic Blue LED	5.0V	60mW	35mA	0.5/0.5 µs	430nm	25µW	FB125-ND	14.38	IF-E92A
Plastic Fiber Optic Blue LED	5.0V	60mW	35mA	0.6/0.6 µs	470nm	75µW	FB126-ND	14.38	IF-E92B
Plastic Fiber Optic Green LED	5.0V	60mW	35mA	3.5/16 ns	530nm	75µW	FB127-ND	10.63	IF-E93
Plastic Fiber Optic Red LED	5.0V	60mW	35mA	0.1/0.1 µs	660nm	<50µW	FB128-ND	4.88	IF-E96
Plastic Fiber Optic Super-Bright LED	5.0V	100mW	40mA	0.5/0.5 µs	660nm	<100µW	FB129-ND	6.50	IF-E97
Plastic Fiber Optic 50 Mbps Red LED	5.0V	100mW	40mA	8.0/8.0 ns	650nm	>100µW	FB135-ND	14.00	IF-E98
Plastic Fiber Optic 155 Mbps Red LED	5.0V	100mW	40mA	—	650nm	-1.5µW	FB136-ND	40.00	IF-E99

Description	Rise/Fall Time tr, tf †	Total Capacitance CT	Dark Current (VR=30 Volts, EE=0) ID	Reverse Breakdown Voltage B(BR)R	Max. Photo–sensitivity PEAK	Power Dissipa–tion P_{TOT}	Digi-Key Part No.	Price Each	IFO Part No.
Active Photodiode	5/5 ns	4pF	<60nA	60.0V	880nm	100mW	FB120-ND	4.18	IF-D91

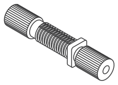
Description	Rise/Fall Time tr,tf †	Collector Emitter Voltage VCEO	Emitter Collector Voltage VECO	Collector Current IC	Collector Peak Current ICM t=1ms	Max. Photo–sensitivity PEAK	Digi-Key Part No.	Price Each	IFO Part No.
Active Phototransister	20/20 µs	30.0V	5.0V	50mA	100mA	870nm	FB121-ND	3.65	IF-D92
Active Photodarlington	5/2.5 ms	15.0V	5.0V	50mA	100mA	850nm	FB122-ND	5.65	IF-D93

Description	Rise/Fall Time tr,tf †	Supply Voltages VS	Voltage@ Output Lead	Propagation delay time tP	Max. Photo–sensitivity PEAK	Power Dissipa–tion P_{TOT}	Digi-Key Part No.	Price Each	IFO Part No.
Photologic Detector w/Totem-Pole Output	70/70 ns	18.0V	—	8 µs	800nm	100mW	FB123-ND	6.55	IF-D95T
Photologic Detector w/Open Collector Output	0.1/0.1 µs	18.0V	35.0V	8 µs	800nm	100mW	FB124-ND	6.55	IF-D95OC
Photologic Detector w/Open Collector Output	—	7.0V	18.0V	65 ns	850nm	40mW	FB132-ND	10.63	IF-D96
Photologic Detector w/Totem-Pole Output	0.1/0.1 µs	7.0V	—	12 ns	800nm	100mW	FB133-ND	18.75	IF-D97
Photologic Detector w/Totem-Pole Output	3/3 ns	7.0V	3.4V	3.5 ns	1050nm	250mW	FB137-ND	31.00	IF-D98

* Into plastic fiber (1mm core dia.). Distance lens to fiber <0.1 mm, 10cm polished fiber, IF=10mA † Rise time and fall times–measured from the 10% to 90% to 10% points respectively.

NOTE: Use Fiber Optic Cable, Digi-Key part #A1700-X-ND (X = 5, 10, 15, 25, 50 or 100 meters).

Fiber Optic Connector

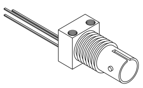


This multi-purpose connector is designed for jacketed 1mm core plastic fiber. It utilizes the same cinch nuts, alignment principles and no-fuss fiber terminations to quickly handle the most common requirements for joining two fibers.

FB139-ND *NEW!*......**$10.00**

Fiber Optic Cable Assemblies and Accessories

1.3μm LED



ST Style: The InGaAsP SLED products offer high coupled powers for digital fiber optic transmission applications. Compatible with industry standards, the LED ADMs consist of hermetically sealed TO-18 style SLEDs which have been actively aligned for maximum coupled power. The ST connectors are suitable for both panel/bulkhead and PC board mounting. **Features:** • High coupled power, typ. 75 μW into 62.5 μm fiber • High reliability MTTW 2.3 x 10^8 hours • Wavelength centered at 1320 nm • Hermetically sealed TO-18 style package installed in industry standard ADMs

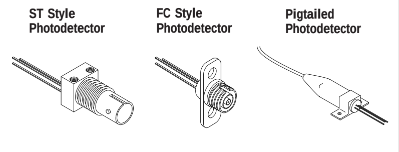
Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Standard	A20193-ND	94.10	83.64	259012-1
Premium	A20194-ND	100.98	89.76	259012-2

Multimode InGaAs Photodetector

ST Style: The multimode design using InGaAs PIN photodetectors offer high responsitivity for nearly all digital and analog fiber optic applications. The unique design balances high-speed performance with noise-free linear output. Spectral response has been optimized for the long wavelength region of 1150 nm to 1600 nm.

Features: • High reliability passivated planar structure • High responsitivity • Low dark current • Low capacitance • Hermetically sealed TO-18 style package installed in industry standard ADMs • -40° to +85°C operating temperature range

Pigtailed: Pigtailed InGaAs PIN photodetectors offer high responsitivity for nearly all digital and analog fiber optic applications. Spectral response has been optimized for the long wavelength region of 1150 nm to 1600 nm. The modules are designed for board mounting.



ST Style Photodetector **FC Style Photodetector** **Pigtailed Photodetector**

Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
	ST Style			
Multimode, Standard	A20197-ND	87.21	77.52	259013-1
Multimode, Premium	A20198-ND	94.10	83.64	259013-2
	FC Style			
Multimode, Standard	A20202-ND	87.21	77.52	259015-1
Multimode, Premium	A20203-ND	94.10	83.64	259015-2
	Pigtailed			
Singlemode, SC Style	A20207-ND	243.27	151.37	269046-3

Fiber Optic Cable Assemblies

- Multimode • 62.5/125 Micron Fiber Size • Orange

Fig. 1 — ST-ST Zip Style Cable.Duplex Conn.

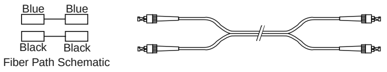


Fig. 2 — FSD-FSD Zip Style Cable. Duplex Conn.

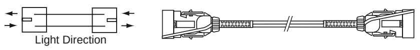


Fig. 3 — SC-SC Zip Style Cable. Duplex Conn.

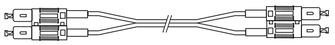


Fig. 4 — SC-SC Zip Style Cable. Duplex Conn.

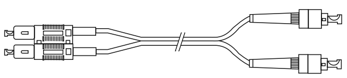


Fig. 5 — SC-SC Riser Rated Cable. Simplex Conn.

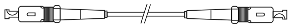


Fig. 6 — SC-ST Riser Rated Cable. Simplex Conn.

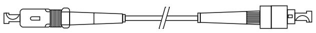
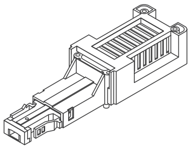


Fig.	Length (meter)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
1	1	A11BBC-0201D-ND*	28.96	25.74	503995-1
	2	A11BBC-0202D-ND*	31.52	28.02	503995-2
	3	A11BBC-0203D-ND*	34.04	30.26	503995-3
	5	A11BBC-0205D-ND*	39.13	34.78	503995-4
	10	A11BBC-0210D-ND*	51.80	46.04	503995-5
	1	A11BBP-0201D-ND†	28.98	25.76	503994-1
	2	A11BBP-0202D-ND†	30.65	27.24	503994-2
	3	A11BBP-0203D-ND†	32.99	29.32	503994-3
	5	A11BBP-0205D-ND†	36.97	32.86	503994-4
	10	A11BBP-0210D-ND†	46.71	41.52	503994-5
2	1	A11FFC-0201D-ND*	77.60	68.98	504626-1
	2	A11FFC-0202D-ND*	81.09	72.08	504626-2
	3	A11FFC-0203D-ND*	84.60	75.20	504626-3
	5	A11FFC-0205D-ND*	91.55	81.38	504626-4
	10	A11FFC-0210D-ND*	108.99	96.88	504626-5
	1	A11FFP-0201D-ND†	66.04	58.70	504625-1
	2	A11FFP-0202D-ND†	69.55	61.82	504625-2
	3	A11FFP-0203D-ND†	73.04	64.92	504625-3
	5	A11FFP-0205D-ND†	80.01	71.12	504625-4
	10	A11FFP-0210D-ND†	97.45	86.62	504625-5
3	1	A11DDC-0201D-ND*	40.07	35.62	504971-1
	2	A11DDC-0202D-ND*	41.90	37.24	504971-2
	3	A11DDC-0203D-ND*	43.72	38.86	504971-3
	5	A11DDC-0205D-ND*	47.36	42.10	504971-4
	10	A11DDC-0210D-ND*	56.48	50.20	504971-5
4	1	A11DBC-0201D-ND*	34.25	30.44	504958-1
	2	A11DBC-0202D-ND*	31.88	28.34	504958-2
	3	A11DBC-0203D-ND*	37.37	33.22	504958-3
	5	A11DBC-0205D-ND*	41.18	36.60	504958-4
	10	A11DBC-0210D-ND*	49.59	44.08	504958-5
5	1	A11DDC-0101B-ND*	17.24	15.32	504970-1
	2	A11DDC-0102B-ND*	18.43	16.38	504970-2
	3	A11DDC-0103B-ND*	19.62	17.44	504970-3
	5	A11DDC-0105B-ND*	22.01	19.56	504970-4
	10	A11DDC-0110B-ND*	27.97	24.86	504970-5
6	1	A11DBC-0101B-ND*	17.24	15.32	504972-1
	2	A11DBC-0102B-ND*	18.43	16.38	504972-2
	3	A11DBC-0103B-ND*	19.62	17.44	504972-3
	5	A11DBC-0105B-ND*	22.01	19.56	504972-4
	10	A11DBC-0110B-ND*	27.97	24.86	504972-5

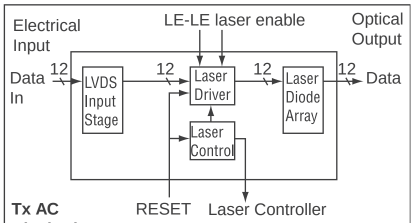
* Ceramic † Polymer Composite

Parallel Optical Link:

PAROLI® Tx AC,Rx AC, 1.6 Gbit/s



Features:
- Power supply 3.3V
- Low voltage differential signal electrical interface (LVDS)
- 12 Electrical data channels
- Asynchronous, AC-coupled optical link
- 12 Optical data channels
- Transmission data rate of up to 1600 Mbits per channel
- PIN diode array technology



Tx AC
Block Diagram

V23815-U1306IN-ND Rx AC **$743.75**
V23814-U1306IN-ND Tx AC................................ **$743.75**

Plastic Fiber Optic Diodes and Housings

• 2.2 mm Aperture holds Standard 1000 Micron Plastic Fiber • No Fiber Stripping Required • Fast Switching Time • Good Linearity • Sensitive in visible and near IR Range • Molded Microlens for Efficient Coupling

Fig. 1

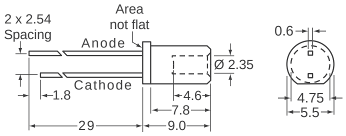


Fig. 2

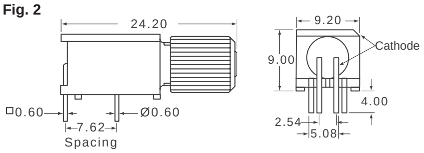


Fig. 3

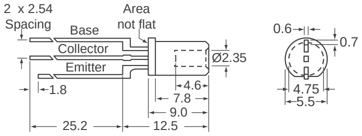


Fig. 4

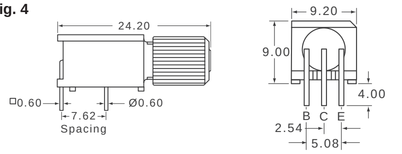
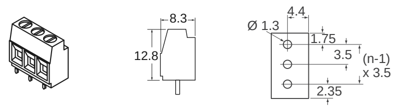


Fig.	Description	Max. Wavelength (nm)	Digi-Key Part No.	Price Each 1	25
1	Fiber Optic Transmitter Diode	660	SFH756IN-ND	5.91	5.06
2	Connector Housing	660	SFH756VIN-ND	7.04	5.08
1	Fiber Optic Photodiode Detector (Receiver)	850	SFH250IN-ND	2.92	2.50
2	Connector Housing	850	SFH250VIN-ND	5.72	4.89
3	Fiber Optic Phototransistor Detector (Receiver)	850	SFH350IN-ND	1.87	1.70
4	Connector Housing	850	SFH350VIN-ND	4.59	3.93
1	Fiber Optic Transmitter Diode	950	SFH450IN-ND	1.71	1.31
2	Connector Housing	950	SFH450VIN-ND	4.32	3.69

Weidmüller Terminal Blocks

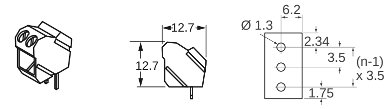
Dimensions in mm

Fig. 1 LM 3.5/90



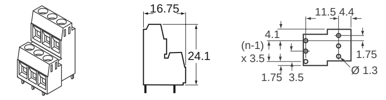
Specifications:
- Screw Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 2 LM 3.5/135



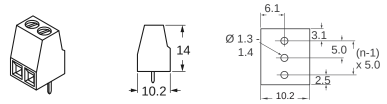
Specifications:
- Screw Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 3 LM2N 3.5/90



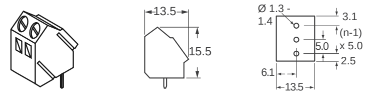
Specifications:
- Screw Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 4 LM 5.00/90



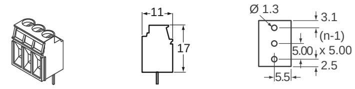
Specifications:
- Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 5 LM 5.00/135



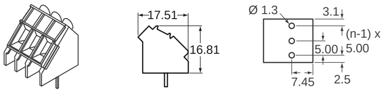
Specifications:
- Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 6 LP 5.00/90



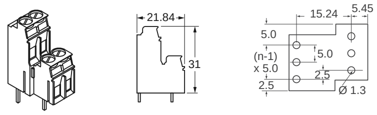
Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 7 LP 5.00/135



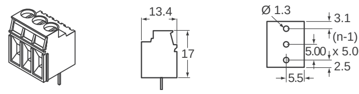
Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 8 LP 2N/5.00



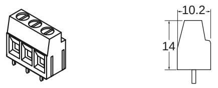
Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 9 LPP 5.00/90



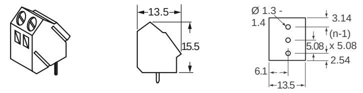
Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm • Test Point

Fig. 10 LM 5.08/90



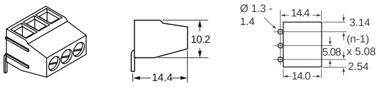
Specifications:
- Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 11 LM 5.08/135



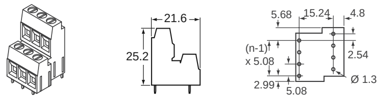
Specifications:
- Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 12 LM 5.08/180



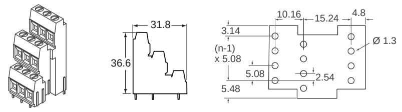
Specifications:
- Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 13 LM2N 5.08/90



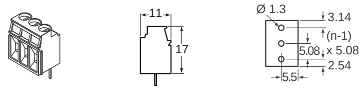
Specifications:
- Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 14 LM3R 5.08/90



Specifications:
- Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 15 LP 5.08/90



Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

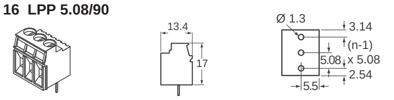
Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
3.5mm Pin Spacing – PCB Terminal Blocks							
1	2	Black	281-1400-ND	.72	.65	.58	1699670000
	3		281-1401-ND	1.08	.98	.87	1699680000
	4		281-1402-ND	1.52	1.37	1.22	9967700000
	6		281-1403-ND	2.27	2.04	1.82	9967720000
	8		281-1404-ND	3.02	2.72	2.42	9967740000
	10		281-1405-ND	3.78	3.41	3.03	9967760000
	12		281-1406-ND	4.55	4.10	3.64	9967780000
2	2	Black	281-1407-ND	.86	.77	.69	1715010000
	3		281-1408-ND	1.28	1.15	1.02	1715050000
	4		281-1409-ND	1.70	1.53	1.36	9995680000
	6		281-1410-ND	2.54	2.29	2.03	9995700000
	8		281-1411-ND	3.41	3.07	2.73	9995720000
	10		281-1412-ND	4.23	3.81	3.39	9995740000
	12		281-1413-ND	5.09	4.58	4.07	9995760000
3	4	Black	281-1670-ND	2.27	2.04	1.82	1720000000
	6		281-1671-ND	3.42	3.08	2.74	1720010000
	8		281-1672-ND	4.56	4.11	3.65	1720020000
	10		281-1673-ND	5.69	5.12	4.55	1720030000
	12		281-1674-ND	6.81	6.13	5.45	1720040000
	16		281-1675-ND	9.11	8.20	7.29	1720060000
	20		281-1676-ND	11.37	10.24	9.10	1720080000
	24		281-1677-ND	13.65	12.29	10.92	1720100000
5.00mm Pin Spacing – PCB Terminal Blocks							
4	2	Black	281-1414-ND	.57	.52	.46	1715250000
	3		281-1415-ND	.86	.77	.69	1715260000
	4		281-1416-ND	1.14	1.03	.92	9993300000
	6		281-1417-ND	1.71	1.54	1.37	9993320000
	8		281-1418-ND	2.28	2.06	1.83	9993340000
	10		281-1419-ND	2.85	2.57	2.28	9993360000
	12		281-1420-ND	3.42	3.08	2.74	9993380000
5	2	Black	281-1421-ND	.62	.56	.50	1715290000
	3		281-1422-ND	.93	.84	.75	1715300000
	4		281-1423-ND	1.25	1.13	1.00	9993510000
	6		281-1424-ND	1.86	1.68	1.49	9993530000
	8		281-1425-ND	2.49	2.25	2.00	9993550000
	10		281-1426-ND	3.11	2.80	2.49	9993570000
	12		281-1427-ND	3.74	3.37	2.99	9993590000
6	2	Black	281-1876-ND	.75	.68	.60	1696060000
	3		281-1877-ND	1.11	1.00	.89	1696070000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
7	2	Black	281-1880-ND	.80	.72	.64	1697180000
	3		281-1881-ND	1.20	1.08	.96	1697190000
8	4	Orange	281-1456-ND	1.94	1.75	1.55	1635170000
	6		281-1457-ND	2.90	2.61	2.32	1625570000
	8		281-1458-ND	3.86	3.47	3.09	1596440000
	10		281-1459-ND	4.83	4.35	3.87	1596480000
	12		281-1460-ND	5.79	5.22	4.64	1632710000
9	2	Black	281-1878-ND	1.10	.99	.88	1697140000
	3		281-1879-ND	1.62	1.46	1.30	1697150000
5.08mm Pin Spacing – PCB Terminal Blocks							
10	2	Black	281-1435-ND	.57	.52	.46	1716020000
	3		281-1436-ND	.86	.77	.69	1716030000
	4		281-1437-ND	1.14	1.03	.92	9993920000
	6		281-1438-ND	1.71	1.54	1.37	9993940000
	8		281-1439-ND	2.28	2.06	1.83	9993960000
	10		281-1440-ND	2.85	2.57	2.28	9993980000
	12		281-1441-ND	3.42	3.08	2.74	9994000000
11	2	Black	281-1442-ND	.62	.56	.50	1716060000
	3		281-1443-ND	.93	.84	.75	1716070000
	4		281-1444-ND	1.25	1.13	1.00	9994340000
	6		281-1445-ND	1.86	1.68	1.49	9994360000
	8		281-1446-ND	2.49	2.25	2.00	9994380000
	10		281-1447-ND	3.11	2.80	2.49	9994400000
	12		281-1448-ND	3.74	3.37	2.99	9994420000
12	2	Black	281-1449-ND	.62	.56	.50	1716040000
	3		281-1450-ND	.93	.84	.75	1716050000
	4		281-1451-ND	1.25	1.13	1.00	9994760000
	6		281-1452-ND	1.86	1.68	1.49	9994780000
	8		281-1453-ND	2.49	2.25	2.00	9994800000
	10		281-1454-ND	3.11	2.80	2.49	9994820000
	12		281-1455-ND	3.74	3.37	2.99	9994840000
13	4	Black	281-1564-ND	1.79	1.62	1.44	1769080000
	6		281-1565-ND	2.69	2.43	2.16	1769090000
	8		281-1566-ND	3.59	3.23	2.88	1769100000
	10		281-1567-ND	4.49	4.04	3.59	1769110000
	12		281-1568-ND	5.38	4.85	4.31	1769120000
	16		281-1569-ND	7.18	6.46	5.75	1769140000
	20		281-1570-ND	8.97	8.08	7.18	1769160000
	24		281-1571-ND	10.76	9.69	8.62	1769180000
14	6	Black	281-1572-ND	3.15	2.84	2.52	1769930000
	9		281-1573-ND	4.73	4.26	3.78	1769940000
	12		281-1574-ND	6.30	5.67	5.04	1769950000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
14	15	Black	281-1575-ND	7.88	7.09	6.30	1769960000
	18		281-1576-ND	9.45	8.51	7.56	1769970000
	24		281-1577-ND	12.60	11.34	10.08	1769990000
	30		281-1578-ND	15.75	14.18	12.60	1770010000
	36		281-1579-ND	18.90	17.01	15.12	1770030000
15	2	Black	281-1870-ND	.75	.68	.60	1696040000
	3		281-1871-ND	1.11	1.00	.89	1696050000
16	2	Black	281-1872-ND	1.10	.99	.88	1697120000
	3		281-1873-ND	1.62	1.46	1.30	1697130000
17	2	Black	281-1874-ND	.80	.72	.64	1676740000
	3		281-1875-ND	1.20	1.08	.96	1676750000
18	4	Orange	281-1461-ND	1.94	1.75	1.55	1635150000
	6		281-1462-ND	2.90	2.61	2.32	1625550000
	8		281-1463-ND	3.86	3.47	3.09	1596470000
	10		281-1464-ND	4.83	4.35	3.87	1596500000
	12		281-1465-ND	5.79	5.22	4.64	1632560000
19	1	Black	281-1735-ND	3.90	3.51	3.12	1755190000
20	2	Black	281-1882-ND	.33	.30	.27	1760510000
	3		281-1883-ND	.50	.45	.40	1760520000
21	2	Black	281-1678-ND	.74	.67	.59	1721640000
	3		281-1679-ND	1.04	.94	.83	1721650000
	4		281-1680-ND	1.37	1.23	1.10	1721660000
	5		281-1681-ND	1.70	1.53	1.36	1721670000
	6		281-1682-ND	1.95	1.76	1.56	1721680000
	8		281-1683-ND	2.54	2.29	2.03	1721700000
	10		281-1684-ND	3.18	2.87	2.55	1721720000
	12		281-1685-ND	3.80	3.42	3.04	1721740000
22	2	Black	281-1686-ND	.74	.67	.59	1734220000
	3		281-1687-ND	1.04	.94	.83	1734230000
	4		281-1688-ND	1.37	1.23	1.10	1734240000
	5		281-1689-ND	1.70	1.53	1.36	1734250000
	6		281-1690-ND	1.95	1.76	1.56	1734260000
	8		281-1691-ND	2.54	2.29	2.03	1734280000
	10		281-1692-ND	3.18	2.87	2.55	1734300000
	12		281-1693-ND	3.80	3.42	3.04	1734320000
23	2	Black	281-1694-ND	.74	.67	.59	1722400000
	3		281-1695-ND	1.04	.94	.83	1722410000
	4		281-1696-ND	1.37	1.23	1.10	1722420000
	5		281-1697-ND	1.70	1.53	1.36	1722430000
	6		281-1698-ND	1.95	1.76	1.56	1722440000

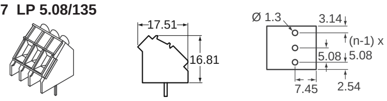
(Continued)

Fig. 16 LPP 5.08/90



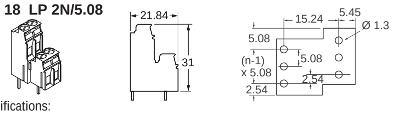
Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm • Test Point

Fig. 17 LP 5.08/135



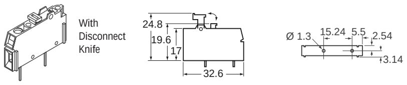
Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 18 LP 2N/5.08



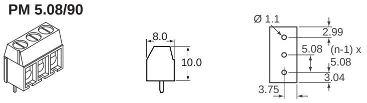
Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 19 LPTR 5.08/90



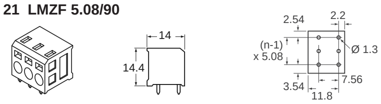
Specifications:
- Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 20 PM 5.08/90



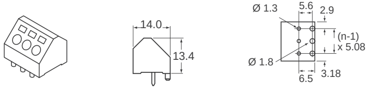
Specifications:
- Leaf Spring Screw Clamp • UL: 300V @ 16A • 14AWG • Pin Length: 3.5mm

Fig. 21 LMZF 5.08/90



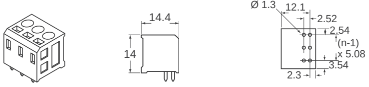
Specifications:
- Tension Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.1mm

Fig. 22 LMZF 5.08/135



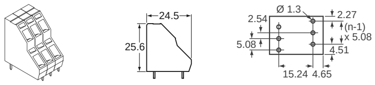
Specifications:
- Tension Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 23 LMZF 5.08/180



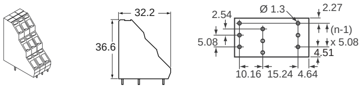
Specifications:
- Tension Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 24 LM2NZF 5.08/135



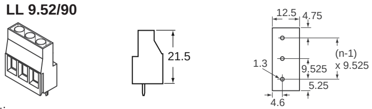
Specifications:
- Tension Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 25 LM3RZF 5.08/135



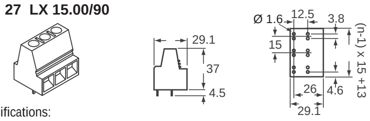
Specifications:
- Tension Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 26 LL 9.52/90



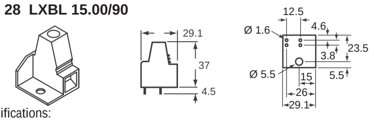
Specifications:
- Screw Clamp • UL: 300V @ 30A • 10AWG • Pin Length: 5.0mm

Fig. 27 LX 15.00/90



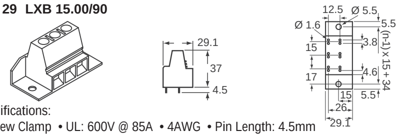
Specifications:
- Screw Clamp • UL: 600V @ 85A • 4AWG • Pin Length: 4.5mm

Fig. 28 LXBL 15.00/90



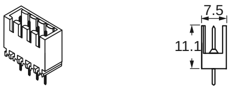
Specifications:
- Screw Clamp • UL: 600V @ 85A • 4AWG • Pin Length: 4.5mm

Fig. 29 LXB 15.00/90



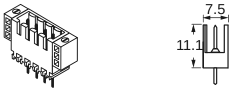
Specifications:
- Screw Clamp • UL: 600V @ 85A • 4AWG • Pin Length: 4.5mm

Fig. 30 SL 3.5/180/…G



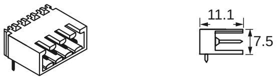
Specifications:
- UL: 300V @ 10A • Pin Length: 4.5mm

Fig. 31 SL 3.5/180/…F



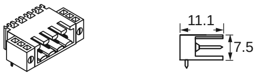
Specifications:
- UL: 300V @ 10A • Pin Length: 4.5mm

Fig. 32 SL 3.5/90/…G



Specifications:
- UL: 300V @ 10A • Pin Length: 4.5mm

Fig. 33 SL 3.5/90/…F



Specifications:
- UL: 300V @ 10A • Pin Length: 4.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
23	8	Black	281-1699-ND	2.54	2.29	2.03	1722460000
	10		281-1700-ND	3.18	2.87	2.55	1722480000
	12		281-1701-ND	3.80	3.42	3.04	1722500000
24	4	Orange	281-1582-ND	2.22	2.00	1.78	1764810000
	6		281-1583-ND	3.47	3.12	2.78	1764820000
	8		281-1584-ND	4.43	3.99	3.54	1764830000
	10		281-1585-ND	5.54	4.99	4.43	1764840000
	12		281-1586-ND	6.65	5.99	5.32	1764850000
	16		281-1587-ND	8.87	7.98	7.10	1764870000
	20		281-1580-ND	11.07	9.97	8.86	1758020000
	24		281-1588-ND	13.29	11.97	10.64	1764900000
25	6	Orange	281-1589-ND	3.60	3.24	2.88	1764910000
	9		281-1590-ND	4.98	4.49	3.99	1764920000
	12		281-1591-ND	6.65	5.99	5.32	1764930000
	15		281-1592-ND	8.31	7.48	6.65	1764940000
	18		281-1593-ND	9.98	8.98	7.98	1764950000
	24		281-1594-ND	13.29	11.97	10.64	1764960000
	36		281-1595-ND	19.94	17.95	15.95	1764990000
	48		281-1581-ND	26.58	23.93	21.27	1758050000
9.52mm Pin Spacing – PCB Terminal Blocks							
26	2	Black	281-1596-ND	1.04	.94	.83	1724700000
	3		281-1597-ND	1.53	1.38	1.23	1724710000
15.00mm Pin Spacing – PCB Terminal Blocks							
27	1	Grey	281-1598-ND	4.50	4.05	3.60	1783660000
	2		281-1599-ND	8.00	7.20	6.40	1783670000
	3		281-1600-ND	11.99	10.79	9.59	1783680000
	4		281-1601-ND	15.99	14.40	12.80	1783690000
	5		281-1602-ND	19.98	17.99	15.99	1806460000
28	1	Grey	281-1603-ND	4.56	4.11	3.65	1783700000
29	2	Grey	281-1604-ND	8.12	7.31	6.50	1783710000
	3		281-1605-ND	12.12	10.91	9.70	1783720000
	4		281-1606-ND	16.11	14.50	12.89	1783730000
	5		281-1607-ND	20.12	18.11	16.10	1806470000
	6		281-1608-ND	24.11	21.70	19.29	1783740000
	8		281-1609-ND	32.10	28.89	25.68	1783750000
3.5mm Pitch Omnimate – PCB Pin Headers							
30	2	Black	281-1144-ND	.54	.49	.44	1614240000
	3		281-1145-ND	.81	.73	.65	1616020000
	4		281-1146-ND	1.11	1.00	.89	1616030000
	6		281-1147-ND	1.64	1.48	1.31	1616050000
	8		281-1148-ND	2.19	1.98	1.76	1614250000
	10		281-1149-ND	2.73	2.46	2.19	1616080000
	12		281-1150-ND	3.29	2.96	2.63	1616100000
	16		281-1151-ND	4.37	3.93	3.50	1614260000
	24		281-1152-ND	6.56	5.90	5.25	1618680000

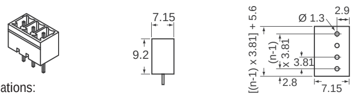
Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
31	2	Black	281-1153-ND	.63	.57	.51	1616140000
	3		281-1154-ND	.95	.86	.76	1616150000
	4		281-1155-ND	1.26	1.14	1.01	1616160000
	6		281-1156-ND	1.89	1.71	1.52	1616180000
	8		281-1157-ND	2.52	2.27	2.02	1614270000
	10		281-1158-ND	3.15	2.84	2.52	1616210000
	12		281-1159-ND	3.77	3.39	3.02	1616230000
	16		281-1160-ND	5.03	4.53	4.02	1616270000
	24		281-1161-ND	7.53	6.78	6.03	1618980000
32	2	Black	281-1117-ND	.54	.49	.44	1614160000
	3		281-1118-ND	.81	.73	.65	1615420000
	4		281-1119-ND	1.11	1.00	.89	1615430000
	6		281-1120-ND	1.64	1.48	1.31	1615440000
	8		281-1121-ND	2.19	1.98	1.76	1614180000
	10		281-1122-ND	2.73	2.46	2.19	1615470000
	12		281-1123-ND	3.23	2.91	2.58	1615490000
	16		281-1124-ND	4.37	3.93	3.50	1614190000
	24		281-1125-ND	6.56	5.90	5.25	1618050000
33	2	Black	281-1126-ND	.63	.57	.51	1615530000
	3		281-1127-ND	.95	.86	.76	1615540000
	4		281-1128-ND	1.26	1.14	1.01	1615550000
	6		281-1129-ND	1.89	1.71	1.52	1615570000
	8		281-1130-ND	2.52	2.27	2.02	1614200000
	10		281-1131-ND	3.15	2.84	2.52	1615600000
	12		281-1132-ND	3.77	3.39	3.02	1615620000
3.81mm Pitch Omnimate – PCB Pin Headers							
34	2	Green	281-1948-ND	.54	.49	.44	1793610000
	3		281-1949-ND	.81	.73	.65	1793620000
	4		281-1950-ND	1.11	1.00	.89	1793630000
	5		281-1951-ND	1.37	1.23	1.10	1793640000
	6		281-1952-ND	1.64	1.48	1.31	1793650000
	8		281-1953-ND	2.19	1.98	1.76	1793660000
	10		281-1954-ND	2.73	2.46	2.19	1793670000
	12		281-1955-ND	3.29	2.96	2.63	1793680000
	16		281-1956-ND	4.37	3.93	3.50	1793690000
35	2	Green	281-1957-ND	.63	.57	.51	1793790000
	3		281-1958-ND	.95	.86	.76	1793800000
	4		281-1959-ND	1.26	1.14	1.01	1793810000
	5		281-1960-ND	1.55	1.40	1.24	1793820000
	6		281-1961-ND	1.89	1.71	1.52	1793830000
	8		281-1962-ND	2.52	2.27	2.02	1793840000
	10		281-1963-ND	3.15	2.84	2.52	1793850000
	12		281-1964-ND	3.77	3.39	3.02	1793860000
	16		281-1965-ND	5.03	4.53	4.02	1793870000
36	2	Green	281-1930-ND	.54	.49	.44	1793240000
	3		281-1931-ND	.81	.73	.65	1793250000
	4		281-1932-ND	1.11	1.00	.89	1793260000
	5		281-1933-ND	1.37	1.23	1.10	1793270000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
36	6	Green	281-1934-ND	1.64	1.48	1.31	1793280000
	8		281-1935-ND	2.19	1.98	1.76	1793290000
	10		281-1936-ND	2.73	2.46	2.19	1793300000
	12		281-1937-ND	3.23	2.91	2.58	1793310000
	16		281-1938-ND	4.37	3.93	3.50	1793320000
37	2	Green	281-1939-ND	.63	.57	.51	1793420000
	3		281-1940-ND	.95	.86	.76	1793430000
	4		281-1941-ND	1.26	1.14	1.01	1793440000
	5		281-1942-ND	1.58	1.42	1.26	1793450000
	6		281-1943-ND	1.89	1.71	1.52	1793460000
	8		281-1944-ND	2.52	2.27	2.02	1793470000
	10		281-1945-ND	3.15	2.84	2.52	1793480000
	12		281-1946-ND	3.77	3.39	3.02	1793490000
	16		281-1947-ND	5.03	4.53	4.02	1793500000
5.00mm Pitch Omnimate – PCB Pin Headers							
38	2	Black	281-1234-ND	.46	.42	.36	1626620000
	3		281-1235-ND	.68	.61	.53	1626630000
	4		281-1236-ND	.89	.80	.69	1596130000
	6		281-1237-ND	1.31	1.18	1.02	1626650000
	8		281-1238-ND	1.79	1.60	1.38	1596140000
	10		281-1239-ND	2.19	1.97	1.69	1626680000
	12		281-1240-ND	2.66	2.39	2.06	1603310000
	16		281-1241-ND	3.57	3.20	2.76	1626730000
	24		281-1242-ND	5.21	4.67	4.02	1626810000
39	2	Black	281-1216-ND	.46	.42	.36	1626210000
	3		281-1217-ND	.68	.61	.53	1626220000
	4		281-1218-ND	.91	.82	.70	1596150000
	6		281-1219-ND	1.31	1.18	1.02	1626240000
	8		281-1220-ND	1.74	1.57	1.35	1626250000
	10		281-1221-ND	2.23	2.00	1.73	1596170000
	12		281-1222-ND	2.66	2.39	2.06	1603320000
	16		281-1223-ND	3.57	3.20	2.76	1603330000
5.08mm Pitch Omnimate – PCB Pin Headers							
40	2	Black	281-1297-ND	.46	.42	.36	1524110000
	3		281-1298-ND	.68	.61	.53	1524210000
	4		281-1299-ND	.91	.82	.70	1524310000
	6		281-1300-ND	1.35	1.22	1.05	1524510000
	8		281-1301-ND	1.79	1.60	1.38	1524710000
	10		281-1302-ND	2.23	2.00	1.73	1524910000
	12		281-1303-ND	2.66	2.39	2.06	1525110000
	16		281-1304-ND	3.57	3.20	2.76	1525510000
41	4	Black	281-1893-ND	1.73	1.56	1.38	1726970000
	6		281-1894-ND	2.60	2.34	2.08	1726980000
	8		281-1895-ND	3.45	3.11	2.76	1726990000
	10		281-1896-ND	4.32	3.89	3.46	1727000000
	12		281-1897-ND	5.18	4.66	4.14	1727010000
	16		281-1898-ND	6.90	6.21	5.52	1727030000

NOTE: All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

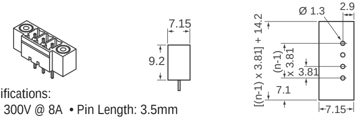
(Continued)

Fig. 34 SL 3.81/180G



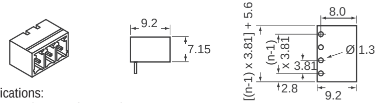
Specifications:
- UL: 300V @ 8A • Pin Length: 3.5mm

Fig. 35 SL 3.81/180F



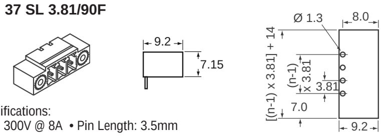
Specifications:
- UL: 300V @ 8A • Pin Length: 3.5mm

Fig. 36 SL3.81/90G



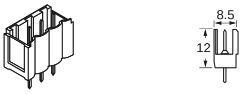
Specifications:
- UL: 300V @ 8A • Pin Length: 3.5mm

Fig. 37 SL 3.81/90F



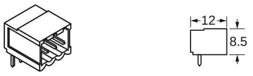
Specifications:
- UL: 300V @ 8A • Pin Length: 3.5mm

Fig. 38 SL 5.00/180/…B



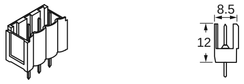
Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 39 SL 5.00/90/…B



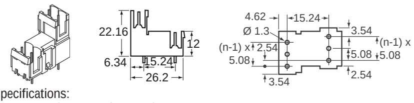
Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 40 SL 5.08/180/…B



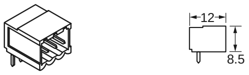
Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 41 SLD 5.08V/180B



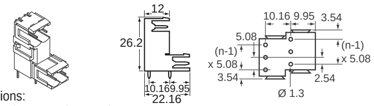
Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 42 SL 5.08/90



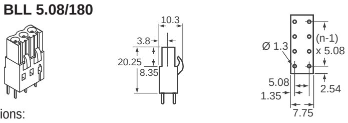
Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 43 SLD 5.08V/90B



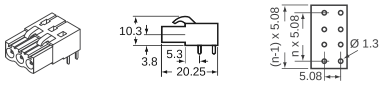
Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 44 BLL 5.08/180



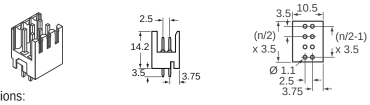
Specifications:
- Solder connection • UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 45 BLL 5.08/90



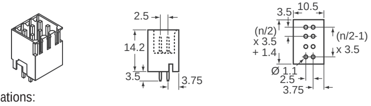
Specifications:
- Solder connection • UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 46 S2L 3.5/180 - Double Density



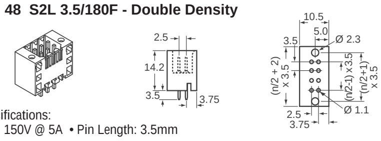
Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 47 S2L 3.5/180G - Double Density



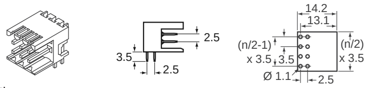
Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 48 S2L 3.5/180F - Double Density



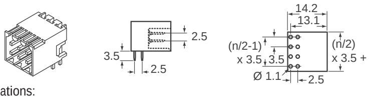
Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 49 S2L 3.5/90 - Double Density



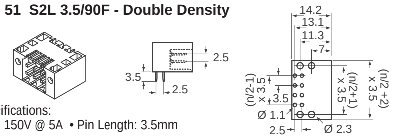
Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 50 S2L 3.5/90G - Double Density



Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 51 S2L 3.5/90F - Double Density



Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

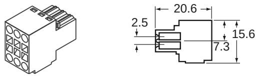
Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
41	24	Black	281-1899-ND	10.35	9.32	8.28	1727070000
	32		281-1900-ND	13.82	12.44	11.06	1727110000
	48		281-1901-ND	20.72	18.65	16.58	1727190000
42	2	Black	281-1279-ND	.46	.42	.36	1514910000
	3		281-1280-ND	.68	.61	.53	1515010000
	4		281-1281-ND	.91	.82	.70	1515110000
	6		281-1282-ND	1.35	1.22	1.05	1515310000
	8		281-1283-ND	1.79	1.60	1.38	1515510000
	10		281-1284-ND	2.23	2.00	1.73	1515710000
	12		281-1285-ND	2.66	2.39	2.06	1515910000
	16		281-1286-ND	3.57	3.20	2.76	1516310000
43	4	Black	281-1884-ND	1.73	1.56	1.38	1726510000
	6		281-1885-ND	2.60	2.34	2.08	1726520000
	8		281-1886-ND	3.45	3.11	2.76	1726530000
	10		281-1887-ND	4.32	3.89	3.46	1726540000
	12		281-1888-ND	5.18	4.66	4.14	1726550000
	16		281-1889-ND	6.90	6.21	5.52	1726570000
	24		281-1890-ND	10.35	9.32	8.28	1726610000
	32		281-1891-ND	13.82	12.44	11.06	1726650000
	48		281-1892-ND	20.72	18.65	16.58	1726730000
5.08mm Pitch Omnimate – PCB Socket Headers							
44	2	Black	281-1745-ND	1.16	1.04	.93	1646250000
	3		281-1746-ND	1.74	1.57	1.40	1646260000
	4		281-1747-ND	2.31	2.08	1.85	1646270000
	6		281-1748-ND	3.48	3.14	2.79	1646290000
	8		281-1749-ND	4.64	4.18	3.71	1646310000
	10		281-1750-ND	5.79	5.22	4.64	1646330000
	12		281-1751-ND	6.95	6.26	5.56	1646350000
	16		281-1752-ND	9.27	8.35	7.42	1649170000
	24		281-1753-ND	13.89	12.51	11.12	1649250000
45	2	Black	281-1736-ND	1.16	1.04	.93	1646030000
	3		281-1737-ND	1.74	1.57	1.40	1646040000
	4		281-1738-ND	2.31	2.08	1.85	1646050000
	6		281-1739-ND	3.48	3.14	2.79	1646070000
	8		281-1740-ND	4.64	4.18	3.71	1646090000
	10		281-1741-ND	5.79	5.22	4.64	1646110000
	12		281-1742-ND	6.95	6.26	5.56	1646130000
	16		281-1743-ND	9.27	8.35	7.42	1648810000
	24		281-1744-ND	13.89	12.51	11.12	1648890000
3.5mm Minimate Double Density – PCB Pin Headers							
46	6	Black	281-1828-ND	1.61	1.45	1.29	1729270000
	8		281-1829-ND	2.15	1.94	1.72	1729280000
	10		281-1830-ND	2.69	2.42	2.15	1729290000
	12		281-1831-ND	3.21	2.89	2.57	1729300000
46	16	Black	281-1832-ND	4.29	3.87	3.44	1729320000
	20		281-1833-ND	5.36	4.82	4.29	1729340000
	24		281-1834-ND	6.42	5.78	5.14	1729360000
47	6	Black	281-1835-ND	1.61	1.45	1.29	1728950000
	8		281-1836-ND	2.15	1.94	1.72	1728960000
	10		281-1837-ND	2.69	2.42	2.15	1728970000
	12		281-1838-ND	3.21	2.89	2.57	1728980000
	16		281-1839-ND	4.29	3.87	3.44	1729000000
	20		281-1840-ND	5.36	4.82	4.29	1729020000
	24		281-1841-ND	6.42	5.78	5.14	1729040000
48	6	Black	281-1842-ND	2.09	1.88	1.67	1729590000
	8		281-1843-ND	2.61	2.35	2.09	1729600000
	10		281-1844-ND	3.15	2.84	2.52	1729610000
	12		281-1845-ND	3.69	3.33	2.96	1729620000
	16		281-1846-ND	4.76	4.28	3.81	1729640000
	20		281-1847-ND	5.82	5.24	4.66	1729660000
	24		281-1848-ND	6.90	6.21	5.52	1729680000
49	6	Black	281-1807-ND	1.61	1.45	1.29	1728310000
	8		281-1808-ND	2.15	1.94	1.72	1728320000
	10		281-1809-ND	2.69	2.42	2.15	1728330000
	12		281-1810-ND	3.21	2.89	2.57	1728340000
	16		281-1811-ND	4.29	3.87	3.44	1728360000
	20		281-1812-ND	5.36	4.82	4.29	1728380000
	24		281-1813-ND	6.42	5.78	5.14	1728400000
50	6	Black	281-1814-ND	1.61	1.45	1.29	1727990000
	8		281-1815-ND	2.15	1.94	1.72	1728000000
	10		281-1816-ND	2.69	2.42	2.15	1728010000
	12		281-1817-ND	3.21	2.89	2.57	1728020000
	16		281-1818-ND	4.29	3.87	3.44	1728040000
	20		281-1819-ND	5.36	4.82	4.29	1728060000
	24		281-1820-ND	6.42	5.78	5.14	1728080000
51	6	Black	281-1821-ND	2.09	1.88	1.67	1728630000
	8		281-1822-ND	2.61	2.35	2.09	1728640000
	10		281-1823-ND	3.15	2.84	2.52	1728650000
	12		281-1824-ND	3.69	3.33	2.96	1728660000
	16		281-1825-ND	4.76	4.28	3.81	1728680000
	20		281-1826-ND	5.82	5.24	4.66	1728700000
	24		281-1827-ND	6.90	6.21	5.52	1728720000
3.50mm Minimate Double Density – Socket Blocks							
52	6	Black	281-1849-ND	4.97	4.47	3.98	1727640000
	8		281-1850-ND	6.62	5.96	5.30	1727650000
	10		281-1851-ND	8.27	7.44	6.62	1727660000
	12		281-1852-ND	9.90	8.91	7.92	1727670000
52	16	Black	281-1853-ND	13.23	11.91	10.59	1727690000
	20		281-1854-ND	16.52	14.87	13.22	1727710000
	24		281-1855-ND	19.80	17.82	15.84	1747940000
53	6	Black	281-1856-ND	5.22	4.70	4.18	1748170000
	8		281-1857-ND	7.07	6.36	5.66	1748180000
	10		281-1858-ND	8.84	7.96	7.07	1748190000
	12		281-1859-ND	10.61	9.55	8.49	1748200000
	16		281-1860-ND	14.15	12.74	11.32	1748220000
	20		281-1861-ND	17.66	15.89	14.13	1748240000
	24		281-1862-ND	21.21	19.09	16.97	1748260000
54	6	Black	281-1863-ND	6.38	5.74	5.10	1748490000
	8		281-1864-ND	8.18	7.36	6.54	1748500000
	10		281-1865-ND	9.96	8.97	7.97	1748510000
	12		281-1866-ND	11.78	10.60	9.42	1748520000
	16		281-1867-ND	15.39	13.86	12.32	1748540000
	20		281-1868-ND	19.01	17.11	15.21	1748560000
	24		281-1869-ND	22.62	20.36	18.10	1748580000
3.50mm Omnimate – Socket Blocks							
55	2	Black	281-1054-ND	1.58	1.42	1.26	1615670000
	3		281-1055-ND	2.36	2.12	1.89	1615680000
	4		281-1056-ND	3.14	2.83	2.51	1615690000
	6		281-1057-ND	4.73	4.26	3.78	1610180000
	8		281-1058-ND	6.30	5.67	5.04	1615700000
	10		281-1059-ND	7.88	7.09	6.30	1610200000
	12		281-1060-ND	9.44	8.50	7.55	1615730000
	16		281-1061-ND	12.59	11.33	10.07	1615770000
	24		281-1062-ND	18.86	16.97	15.09	1620440000
56	2	Black	281-1063-ND	1.65	1.49	1.32	1615780000
	3		281-1064-ND	2.48	2.23	1.98	1615790000
	4		281-1065-ND	3.30	2.97	2.64	1615800000
	6		281-1066-ND	4.97	4.47	3.98	1615820000
	8		281-1067-ND	6.72	6.05	5.38	1615840000
	10		281-1068-ND	8.42	7.58	6.74	1615860000
	12		281-1069-ND	10.10	9.09	8.08	1615880000
	16		281-1070-ND	13.47	12.13	10.78	1615920000
	24		281-1071-ND	20.19	18.18	16.16	1620910000
57	2	Black	281-1018-ND	1.65	1.49	1.32	1638780000
	3		281-1019-ND	2.48	2.23	1.98	1638790000
	4		281-1020-ND	3.30	2.97	2.64	1638800000
	6		281-1021-ND	4.95	4.46	3.96	1638820000
	8		281-1022-ND	6.60	5.94	5.28	1638840000
	10		281-1023-ND	8.25	7.43	6.60	1638860000
	12		281-1024-ND	9.90	8.91	7.92	1638880000
	16		281-1025-ND	13.20	11.88	10.56	1638920000
	24		281-1026-ND	19.80	17.82	15.84	1639000000

NOTE: All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

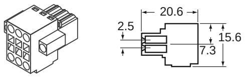
Terminal Blocks *(Cont.)*

Fig. 52 B2L 3.5



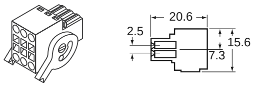
Specifications:
• Tension Clamp • UL: 150V @ 5A • 16AWG

Fig. 53 B2L 3.5F



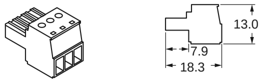
Specifications:
• Tension Clamp • UL: 150V @ 5A • 16AWG

Fig. 54 B2L 3.5LH



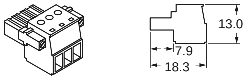
Specifications:
• Tension Clamp • UL: 150V @ 5A • 16AWG

Fig. 55 BL 3.5



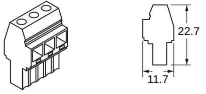
Specifications:
• Screw Clamp • UL: 300V @ 10A • 14AWG

Fig. 56 BL 3.5/…F



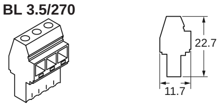
Specifications:
• Screw Clamp • UL: 300V @ 10A • 14AWG

Fig. 57 BL 3.5/90



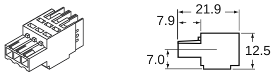
Specifications:
• Screw Clamp • UL: 300V @ 10A • 14AWG

Fig. 58 BL 3.5/270



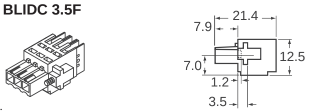
Specifications:
• Screw Clamp • UL: 300V @ 10A • 14AWG

Fig. 59 BLIDC 3.5



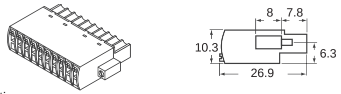
Specifications:
• IDC connection • UL: 300V @ 7A • 20AWG

Fig. 60 BLIDC 3.5F



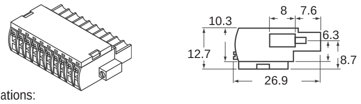
Specifications:
• IDC connection • UL: 300V @ 7A • 20AWG

Fig. 61 BL-I/O 3.5/10F



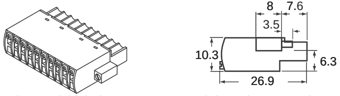
Specifications:
• Push-In Spring connection • UL: 50V @ 5A • 16AWG

Fig. 62 BL-I/O 3.5/10F LED



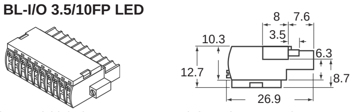
Specifications:
• Push-In Spring connection • UL: 24V @ 5A • 16AWG • Integrated LEDs

Fig. 63 BL-I/O 3.5/10FP



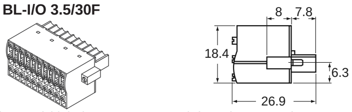
Specifications: • Field device connector • Push-in Spring connection
• UL: 50V @ 5A • 16AWG • Offset Flanges

Fig. 64 BL-I/O 3.5/10FP LED



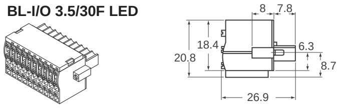
Specifications: • Field device connector • Push-in Spring connection
• UL: 24V @ 5A • 16AWG • Offset Flanges • Integrated LEDs

Fig. 65 BL-I/O 3.5/30F



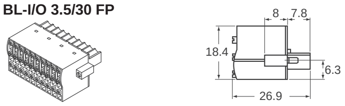
Specifications: • Field device connector • Push-in Spring connection
• UL: 50V @ 5A • 16AWG

Fig. 66 BL-I/O 3.5/30F LED



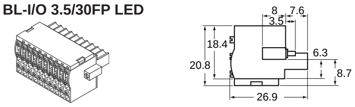
Specifications: • Field device connector • Push-in Spring connection
• UL: 24V @ 5A • 16AWG • Integrated LEDs

Fig. 67 BL-I/O 3.5/30 FP



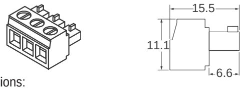
Specifications: • Field device connector • Push-in Spring connection
• UL: 50V @ 5A • 16AWG • Offset Flanges

Fig. 68 BL-I/O 3.5/30FP LED



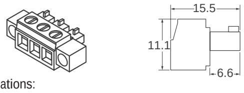
Specifications: • Field device connector • Push-in Spring connection
• UL: 24V @ 5A • 16AWG • Offset Flanges • Integrated LEDs

Fig. 69 BL3.81



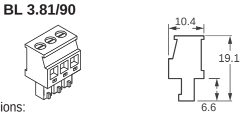
Specifications:
• Clamping Yoke • UL 300V @ 8A • 16AWG

Fig. 70 BL 3.81F



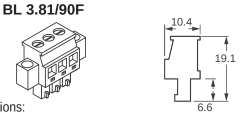
Specifications:
• Clamping Yoke • UL: 300V @ 8A • 16AWG

Fig. 71 BL 3.81/90



Specifications:
• Clamping Yoke • UL 300V @ 8A • 16AWG

Fig. 72 BL 3.81/90F



Specifications:
• Clamping Yoke • UL: 300V @ 8A • 16AWG

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Weidmuller Part No.
58	2	Black	281-1036-ND	1.65	1.49	1.32	1639700000
	3		281-1037-ND	2.48	2.23	1.98	1639710000
	4		281-1038-ND	3.30	2.97	2.64	1639720000
	6		281-1039-ND	4.95	4.46	3.96	1639740000
	8		281-1040-ND	6.60	5.94	5.28	1639760000
	10		281-1041-ND	8.25	7.43	6.60	1639780000
	12		281-1042-ND	9.90	8.91	7.92	1639800000
	16		281-1043-ND	13.20	11.88	10.56	1639840000
	24		281-1044-ND	19.80	17.82	15.84	1639920000
59	2	Black	281-1702-ND	1.82	1.64	1.46	1770940000
	3		281-1703-ND	2.72	2.45	2.18	1770950000
	4		281-1704-ND	3.63	3.27	2.91	1770960000
	6		281-1705-ND	5.45	4.91	4.36	1770980000
	8		281-1706-ND	7.26	6.54	5.81	1771000000
	10		281-1707-ND	9.08	8.17	7.26	1771020000
	12		281-1708-ND	10.89	9.81	8.72	1771040000
	16		281-1709-ND	14.52	13.07	11.62	1771080000
	2	Black	281-1718-ND*	1.91	1.72	1.53	1770670000
	3		281-1719-ND*	2.85	2.57	2.28	1770680000
	4		281-1720-ND*	3.81	3.43	3.05	1770690000
	6		281-1721-ND*	5.72	5.15	4.58	1770710000
	8		281-1722-ND*	7.62	6.86	6.10	1770730000
60	2	Black	281-1710-ND	1.95	1.76	1.56	1771090000
	3		281-1711-ND	2.93	2.64	2.34	1771100000
	4		281-1712-ND	3.87	3.49	3.10	1771110000
	6		281-1713-ND	5.82	5.24	4.66	1771130000
	8		281-1714-ND	7.76	6.98	6.21	1771150000
	10		281-1715-ND	9.72	8.75	7.78	1771170000
	12		281-1716-ND	11.66	10.49	9.33	1771190000
	16		281-1717-ND	15.54	13.99	12.44	1771230000
	2	Black	281-1723-ND*	2.04	1.84	1.64	1770740000
	3		281-1724-ND*	3.08	2.77	2.46	1770750000
	4		281-1725-ND*	4.07	3.66	3.26	1770760000
	6		281-1726-ND*	6.11	5.50	4.89	1770780000
	8		281-1727-ND*	7.98	7.19	6.39	1770800000
3.50 mm Omnimate – BLI/O Socket Blocks							
61	10	Black	281-1803-ND	6.72	6.05	5.38	1779880000
62	10	Black	281-1804-ND	21.38	19.24	17.10	1789090000
63	10	Black	281-1805-ND	6.72	6.05	5.38	1779870000
64	10	Black	281-1806-ND	21.38	19.24	17.10	1789080000
65	30	Black	281-1799-ND	28.55	25.70	22.84	1779920000
66	30	Black	281-1800-ND	43.20	38.88	34.56	1789110000
67	30	Black	281-1801-ND	28.55	25.70	22.84	1779910000
68	30	Black	281-1802-ND	43.20	38.88	34.56	1789100000
3.81mm Omnimate – Socket Blocks							
69	2	Green	281-1912-ND	1.58	1.42	1.26	1792860000
	3		281-1913-ND	2.36	2.12	1.89	1792870000
	4		281-1914-ND	3.14	2.83	2.51	1792880000
	5		281-1915-ND	3.92	3.53	3.14	1792890000
	6		281-1916-ND	4.73	4.26	3.78	1792900000
	8		281-1917-ND	6.30	5.67	5.04	1792910000
	10		281-1918-ND	7.88	7.09	6.30	1792920000
	12		281-1919-ND	9.44	8.50	7.55	1792930000
	16		281-1920-ND	12.59	11.33	10.07	1792940000
70	2	Green	281-1921-ND	1.65	1.49	1.32	1793040000
	3		281-1922-ND	2.48	2.23	1.98	1793050000
	4		281-1923-ND	3.30	2.97	2.64	1793060000
	5		281-1924-ND	4.22	3.80	3.38	1793070000
	6		281-1925-ND	4.97	4.47	3.98	1793080000
	8		281-1926-ND	6.72	6.05	5.38	1793090000
	10		281-1927-ND	8.42	7.58	6.74	1793100000
	12		281-1928-ND	10.10	9.09	8.08	1793110000
	16		281-1929-ND	13.47	12.13	10.78	1793120000
71	2	Green	281-1966-ND	1.65	1.49	1.32	1798680000
	3		281-1967-ND	2.48	2.23	1.98	1798690000
	4		281-1968-ND	3.30	2.97	2.64	1798710000
	5		281-1969-ND	4.13	3.72	3.30	1798720000
	6		281-1970-ND	4.95	4.46	3.96	1798730000
	8		281-1971-ND	6.60	5.94	5.28	1798740000
	10		281-1972-ND	8.25	7.43	6.60	1798750000
	12		281-1973-ND	9.90	8.91	7.92	1798760000
	16		281-1974-ND	13.20	11.88	10.56	1798770000
72	2	Green	281-1975-ND	1.77	1.60	1.42	1798850000
	3		281-1976-ND	2.66	2.39	2.13	1798860000
	4		281-1977-ND	3.53	3.18	2.82	1798870000
	5		281-1978-ND	4.41	3.97	3.53	1798880000
	6		281-1979-ND	5.30	4.77	4.24	1798890000
	8		281-1980-ND	7.05	6.35	5.64	1798900000
	10		281-1981-ND	8.84	7.96	7.07	1798910000
	12		281-1982-ND	10.61	9.55	8.49	1798920000
	16		281-1983-ND	14.13	12.72	11.31	1798930000
73	2	Green	281-1984-ND	1.65	1.49	1.32	1799010000
	3		281-1985-ND	2.48	2.23	1.98	1799020000
	4		281-1986-ND	3.30	2.97	2.64	1799030000
	5		281-1987-ND	4.13	3.72	3.30	1799040000
	6		281-1988-ND	4.95	4.46	3.96	1799050000
	8		281-1989-ND	6.60	5.94	5.28	1799060000
	10		281-1990-ND	8.25	7.43	6.60	1799070000
	12		281-1991-ND	9.90	8.91	7.92	1799080000
	16		281-1992-ND	13.20	11.88	10.56	1799090000
74	2	Green	281-1993-ND	1.77	1.60	1.42	1799170000
	3		281-1994-ND	2.66	2.39	2.13	1799180000
	4		281-1995-ND	3.53	3.18	2.82	1799190000
	5		281-1996-ND	4.41	3.97	3.53	1799200000
	6		281-1997-ND	5.30	4.77	4.24	1799210000
	8		281-1998-ND	7.05	6.35	5.64	1799220000
	10		281-1999-ND	8.84	7.96	7.07	1799230000
	12		281-2000-ND	10.61	9.55	8.49	1799240000
	16		281-2001-ND	14.13	12.72	11.31	1799250000
5.00mm Omnimate – Socket Blocks							
75	2	Black	281-1180-ND	1.15	1.04	.89	1625610000
	3		281-1181-ND	1.71	1.54	1.33	1625620000
	4		281-1182-ND	2.26	2.03	1.75	1596080000
	6		281-1183-ND	3.40	3.05	2.62	1596090000
	8		281-1184-ND	4.62	4.15	3.57	1596110000
	10		281-1185-ND	5.76	5.16	4.44	1596120000
	12		281-1186-ND	7.50	6.73	5.79	1602990000
	16		281-1187-ND	10.02	8.98	7.73	1603300000
	24		281-1188-ND	15.00	13.45	11.57	1611470000
76	2	Black	281-1189-ND	1.28	1.15	.99	1636890000
	3		281-1190-ND	1.96	1.76	1.51	1636900000
	4		281-1191-ND	2.61	2.34	2.01	1636910000
	6		281-1192-ND	3.82	3.42	2.95	1636930000
	8		281-1193-ND	5.10	4.57	3.93	1636950000
	10		281-1194-ND	6.34	5.68	4.89	1636970000
	12		281-1195-ND	7.60	6.82	5.87	1636990000
	16		281-1196-ND	10.14	9.09	7.82	1637030000
5.08mm Omnimate – Socket Blocks							
77	2	Black	281-1243-ND	1.17	1.05	.90	1526410000
	3		281-1244-ND	1.76	1.58	1.36	1526510000
	4		281-1245-ND	2.32	2.08	1.79	1526610000
	6		281-1246-ND	3.46	3.10	2.67	1526810000
	8		281-1247-ND	4.62	4.15	3.57	1527010000
	10		281-1248-ND	5.76	5.16	4.44	1527210000
	12		281-1249-ND	6.90	6.18	5.32	1527410000
	16		281-1250-ND	9.01	8.08	6.95	1527810000
	24		281-1251-ND	13.81	12.38	10.65	1528610000
78	2	Black	281-1902-ND	3.56	3.20	2.85	1499510000
	3		281-1903-ND	5.33	4.80	4.26	1499610000
	4		281-1904-ND	7.11	6.40	5.69	1499710000
	5		281-1905-ND	8.87	7.98	7.10	1499810000
	6		281-1906-ND	10.86	9.78	8.69	1499910000
	8		281-1907-ND	14.16	12.75	11.33	1500110000
	10		281-1908-ND	17.72	15.95	14.18	1500310000
	12		281-1909-ND	21.72	19.55	17.38	1500510000
	16		281-1910-ND	28.32	25.49	22.66	1500910000
	24		281-1911-ND	44.69	40.22	35.75	1501710000

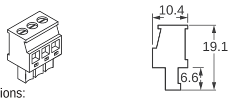
* Bus Version

NOTE: All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

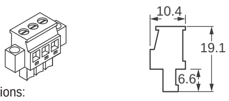
SL-SMT Series: • Stable at 500°F (260°C) compatible with all reflow soldering processes
• Pick and place compatible • 10 times greater strength than standard “Gull Wing” SMT pins

Fig. 73 BL 3.81/270



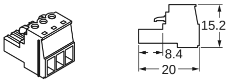
Specifications:
• Clamping Yoke • UL: 300V @ 8A •16AWG

Fig. 74 BL 3.81/270F



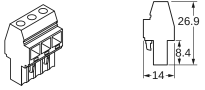
Specifications:
• Clamping Yoke • UL: 300V @ 8A •16AWG

Fig. 75 BLZ 5.00



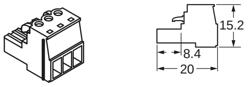
Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 76 BLZ 5.00/90



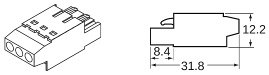
Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 77 BLZ 5.08



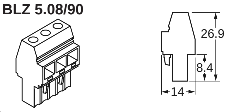
Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 78 BLT 5.08/180



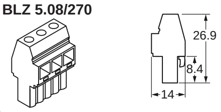
Specifications:
• Top connection • UL 300V @ 15A • 12AWG

Fig. 79 BLZ 5.08/90



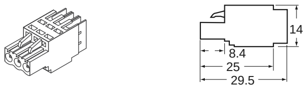
Specification:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 80 BLZ 5.08/270



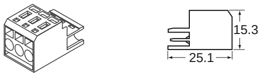
Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 81 BLIDC 5.08



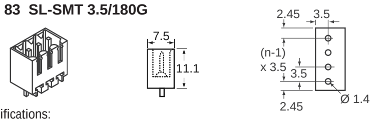
Specifications:
• IDC connection • UL: 300V @ 8A • 20AWG

Fig. 82 SLZF 5.08/180



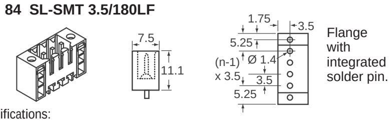
Specifications:
• Tension Clamp • UL: 300V @ 10A • 12AWG

Fig. 83 SL-SMT 3.5/180G



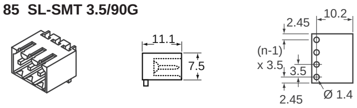
Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 10A • Pin Length: 1.5mm

Fig. 84 SL-SMT 3.5/180LF



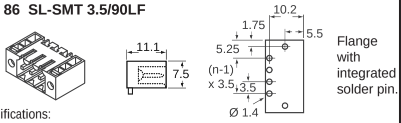
Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 10A • Pin Length: 1.5mm

Fig. 85 SL-SMT 3.5/90G



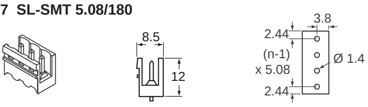
Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 10A • Pin Length: 1.5mm

Fig. 86 SL-SMT 3.5/90LF



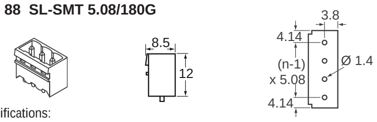
Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 10A • Pin Length: 1.5mm

Fig. 87 SL-SMT 5.08/180



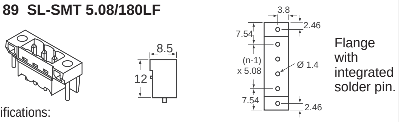
Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 88 SL-SMT 5.08/180G



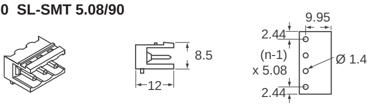
Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 89 SL-SMT 5.08/180LF



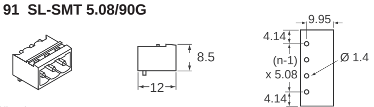
Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 90 SL-SMT 5.08/90



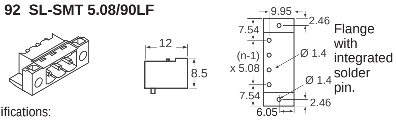
Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 91 SL-SMT 5.08/90G



Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 92 SL-SMT 5.08/90LF



Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

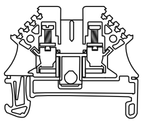
Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
79	2	Black	281-1252-ND	1.32	1.19	1.03	1552710000
	3		281-1253-ND	1.96	1.76	1.51	1552810000
	4		281-1254-ND	2.61	2.34	2.01	1552910000
	6		281-1255-ND	3.89	3.49	3.00	1553110000
	8		281-1256-ND	5.20	4.66	4.01	1553310000
	10		281-1257-ND	6.48	5.81	5.00	1553510000
	12		281-1258-ND	7.78	6.97	6.00	1553710000
	16		281-1259-ND	10.37	9.29	8.00	1554110000
	24		281-1260-ND	15.42	13.82	11.89	1554910000
80	2	Black	281-1261-ND	1.28	1.15	.99	1557310000
	3		281-1262-ND	1.92	1.72	1.48	1557410000
	4		281-1263-ND	2.61	2.34	2.01	1557510000
	6		281-1264-ND	3.82	3.42	2.95	1557710000
	8		281-1265-ND	5.20	4.66	4.01	1557910000
	10		281-1266-ND	6.34	5.68	4.89	1558110000
	12		281-1267-ND	7.78	6.97	6.00	1558310000
	16		281-1268-ND	10.37	9.29	8.00	1558710000
81	2	Black	281-1728-ND	1.76	1.58	1.41	1759390000
	3		281-1729-ND	2.64	2.38	2.12	1759400000
	4		281-1730-ND	3.51	3.16	2.81	1759410000
	6		281-1731-ND	5.27	4.74	4.22	1759430000
	8		281-1732-ND	7.04	6.34	5.63	1759450000
	10		281-1733-ND	8.79	7.92	7.04	1759470000
	12		281-1734-ND	10.53	9.48	8.43	1759490000
5.08mm Omnimate – Pin Plugs							
82	2	Black	281-1790-ND	4.53	4.08	3.63	1709600000
	3		281-1791-ND	2.10	1.89	1.68	1709610000
	4		281-1792-ND	2.57	2.31	2.06	1709620000
	6		281-1793-ND	3.48	3.14	2.79	1709640000
	8		281-1794-ND	4.53	4.08	3.63	1709660000
	10		281-1795-ND	5.45	4.91	4.36	1709680000
	12		281-1796-ND	6.38	5.74	5.10	1709700000
	16		281-1797-ND	8.15	7.34	6.52	1709740000
	24		281-1798-ND	12.00	10.80	9.60	1709820000
3.5mm Omnimate – SMT Compatible PCB Pin Headers							
83	2	Black	281-1772-ND	.60	.54	.48	1752982001
	3		281-1773-ND	.90	.81	.72	1752992001
	4		281-1774-ND	1.23	1.11	.99	1753002001
	6		281-1775-ND	1.83	1.65	1.47	1753022001
	8		281-1776-ND	2.39	2.15	1.91	1753042001
	10		281-1777-ND	3.03	2.73	2.43	1753062001
	12		281-1778-ND	3.59	3.23	2.87	1753082001
	16		281-1779-ND	4.86	4.38	3.89	1753122001
	24		281-1780-ND	7.16	6.44	5.73	1753202001
84	2	Black	281-1781-ND	.72	.65	.58	1760962001
	3		281-1782-ND	1.10	.99	.88	1760972001
	4		281-1783-ND	1.40	1.26	1.12	1760982001
	6		281-1784-ND	2.10	1.89	1.68	1761002001
	8		281-1785-ND	2.81	2.53	2.25	1761022001
	10		281-1786-ND	3.50	3.15	2.80	1761042001
	12		281-1787-ND	4.19	3.77	3.35	1761062001
	16		281-1788-ND	5.60	5.04	4.48	1761102001
	24		281-1789-ND	8.36	7.52	6.69	1761182001
85	2	Black	281-1754-ND	.60	.54	.48	1761542001
	3		281-1755-ND	.90	.81	.72	1761552001
	4		281-1756-ND	1.23	1.11	.99	1761562001
	6		281-1757-ND	1.83	1.65	1.47	1761582001
	8		281-1758-ND	2.39	2.15	1.91	1761602001
	10		281-1759-ND	3.03	2.73	2.43	1761622001
	12		281-1760-ND	3.59	3.23	2.87	1761642001
	16		281-1761-ND	4.86	4.38	3.89	1761682001
	24		281-1762-ND	7.16	6.44	5.73	1761762001
86	2	Black	281-1763-ND	.72	.65	.58	1762002001
	3		281-1764-ND	1.10	.99	.88	1762012001
	4		281-1765-ND	1.40	1.26	1.12	1762022001
	6		281-1766-ND	2.10	1.89	1.68	1762042001
	8		281-1767-ND	2.81	2.53	2.25	1762062001
	10		281-1768-ND	3.50	3.15	2.80	1762082001
	12		281-1769-ND	4.19	3.77	3.35	1762102001
	16		281-1770-ND	5.60	5.04	4.48	1762142001
	24		281-1771-ND	8.36	7.52	6.69	1762222001
5.08mm Omnimate – SMT Compatible PCB Pin Headers							
87	2	Black	281-1610-ND	.53	.48	.42	1775522001
	3		281-1611-ND	.78	.71	.63	1775572001
	4		281-1612-ND	1.04	.94	.83	1775592001
	5		281-1613-ND	1.29	1.17	1.04	1775632001
	6		281-1614-ND	1.55	1.40	1.24	1775642001
	8		281-1615-ND	2.04	1.84	1.64	1775662001
	10		281-1616-ND	2.57	2.31	2.06	1775682001
	12		281-1617-ND	3.06	2.76	2.45	1775702001
	16		281-1618-ND	4.10	3.69	3.28	1775742001
	24		281-1619-ND	5.97	5.38	4.78	1775822001
88	2	Black	281-1620-ND	.53	.48	.42	1775922001
	3		281-1621-ND	.78	.71	.63	1775932001
	4		281-1622-ND	1.04	.94	.83	1775942001
	5		281-1623-ND	1.29	1.17	1.04	1775952001
	6		281-1624-ND	1.55	1.40	1.24	1775962001
	8		281-1625-ND	2.04	1.84	1.64	1775982001
	10		281-1626-ND	2.57	2.31	2.06	1776002001
88	12	Black	281-1627-ND	3.06	2.76	2.45	1776022001
	16		281-1628-ND	4.10	3.69	3.28	1776272001
	24		281-1629-ND	5.97	5.38	4.78	1776352001
89	2	Black	281-1630-ND	.86	.77	.69	1776362001
	3		281-1631-ND	1.04	.94	.83	1776372001
	4		281-1632-ND	1.26	1.14	1.01	1776382001
	5		281-1633-ND	1.49	1.34	1.19	1776392001
	6		281-1634-ND	1.71	1.54	1.37	1776402001
	8		281-1635-ND	2.25	2.03	1.80	1776422001
	10		281-1636-ND	2.82	2.54	2.26	1776442001
	12		281-1637-ND	3.36	3.03	2.69	1776462001
	16		281-1638-ND	4.50	4.05	3.60	1776502001
	24		281-1639-ND	6.57	5.92	5.26	1776592001
90	2	Black	281-1640-ND	.53	.48	.42	1774762001
	3		281-1641-ND	.78	.71	.63	1774772001
	4		281-1642-ND	1.04	.94	.83	1774782001
	5		281-1643-ND	1.29	1.17	1.04	1774792001
	6		281-1644-ND	1.55	1.40	1.24	1774802001
	8		281-1645-ND	2.04	1.84	1.64	1774822001
	10		281-1646-ND	2.57	2.31	2.06	1774842001
	12		281-1647-ND	3.06	2.76	2.45	1774862001
	16		281-1648-ND	4.10	3.69	3.28	1774902001
	24		281-1649-ND	5.97	5.38	4.78	1774982001
91	2	Black	281-1660-ND	.53	.48	.42	1775002001
	3		281-1661-ND	.78	.71	.63	1775012001
	4		281-1662-ND	1.04	.94	.83	1775022001
	5		281-1663-ND	1.29	1.17	1.04	1775032001
	6		281-1664-ND	1.55	1.40	1.24	1775042001
	8		281-1665-ND	2.04	1.84	1.64	1775062001
	10		281-1666-ND	2.57	2.31	2.06	1775082001
	12		281-1667-ND	3.06	2.76	2.45	1775102001
	16		281-1668-ND	4.10	3.69	3.28	1775142001
	24		281-1669-ND	5.97	5.38	4.78	1775222001
92	2	Black	281-1650-ND	.86	.77	.69	1775232001
	3		281-1651-ND	1.04	.94	.83	1775242001
	4		281-1652-ND	1.26	1.14	1.01	1775252001
	5		281-1653-ND	1.49	1.34	1.19	1775262001
	6		281-1654-ND	1.71	1.54	1.37	1775272001
	8		281-1655-ND	2.25	2.03	1.80	1775292001
	10		281-1656-ND	2.82	2.54	2.26	1775312001
	12		281-1657-ND	3.36	3.03	2.69	1775332001
	16		281-1658-ND	4.50	4.05	3.60	1775372001
	24		281-1659-ND	6.57	5.92	5.26	1775452001

281-1376-ND Screwdriver for 3.5mm Plugs $11.76

NOTE: All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

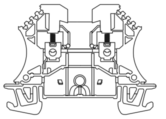
Weidmüller DIN Rail - Mounted Terminal Blocks and Accessories

Fig. 1 - WDU 2.5N



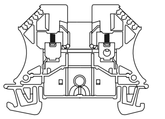
- Termination Block Width: 5mm
- Wire Size (UL): 24-12 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 25A

Fig. 2 - WDU 2.5



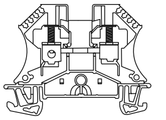
- Termination Block Width: 5mm
- Wire Size (UL): 22-12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 25A

Fig. 3 - WDU 4



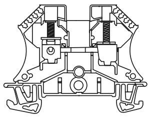
- Termination Block Width: 6mm
- Wire Size (UL): 22-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 35A

Fig. 4- WDU 6



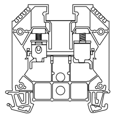
- Termination Block Width: 8mm
- Wire Size (UL): 20-8: AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 45A

Fig. 5 - WDU 10



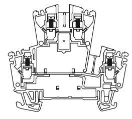
- Term. Block Width: 10mm
- Wire Size (UL): 16-6 AWG
- Voltage Approval (UL): 1000V
- Current Approval (UL): 65A

Fig. 6 - WDU 16



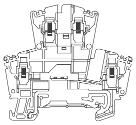
- Termination Block Width: 12mm
- Wire Size (UL): 14-6 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 70A

Fig. 7 - WDK 2.5N



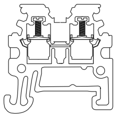
- Termination Block Width: 5mm
- Wire Size (UL): 22-12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

Fig. 8 - WDK 2.5 DU-PE



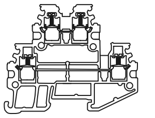
• Termination Block Width: 5mm • Wire Size (UL): 22-12 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 20A

Fig. 9 - WDU 1.5/R 3.5



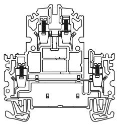
• Termination Block Width: 3.5mm • Wire Size (UL): 26-14 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 15A

Fig. 10 - WDK 1.5/R 3.5



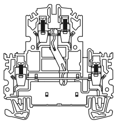
• Termination Block Width: 3.5mm • Wire Size (UL): 26-14 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 15A

Fig. 11 - WDK 4N



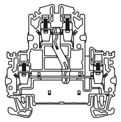
• Termination Block Width: 6mm • Wire Size (UL): 22-10 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 35A

Fig. 12 - WDK 4NV



• Termination Block Width: 6mm • Wire Size (UL): 22-10 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 35A

Fig.13 - WDK 2.5 NV



• Termination Block Width: 5mm • Wire Size (UL): 26-12 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 20A

TERMINAL BLOCKS							*ACCESSORIES (See Descriptions and Prices Below)*							
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.	Grounding Blocks	End Plates	End Brackets	Partitions	Jumpers/ Jumper Links	Notching Tools	DIN Rail	Marking Tags
1	WDU 2.5N	281-1466-ND	1.38	1.25	1.11	1040800000	281-1490-ND	281-1499-ND	281-1503-ND	—	281-1505-ND	281-1533-ND	281-1534-ND	281-1550-ND
2	WDU 2.5	281-1467-ND	1.13	1.02	.90	1020000000	281-1491-ND	281-1500-ND	281-1503-ND	—	281-1505-ND	281-1533-ND	281-1534-ND	281-1550-ND
3	WDU 4	281-1468-ND	1.23	1.11	.99	1020100000	281-1492-ND	281-1500-ND	281-1503-ND	—	281-1514-ND	281-1533-ND	281-1534-ND	281-1551-ND
4	WDU 6	281-1469-ND	1.65	1.49	1.32	1020200000	281-1493-ND	281-1500-ND	281-1503-ND	—	281-1518-ND 281-1521-ND	281-1533-ND	281-1534-ND	—
5	WDU 10	281-1470-ND	2.19	1.98	1.76	1020300000	281-1494-ND	281-1500-ND	281-1503-ND	—	281-1522-ND 281-1525-ND	281-1533-ND	281-1534-ND	—
6	WDU 16	281-1471-ND	4.79	4.31	3.83	1020400000	281-1495-ND	—	281-1502-ND	—	— 281-1529-ND	281-1533-ND	281-1534-ND	—
7	WDK 2.5N	281-1472-ND	3.51	3.16	2.81	1041100000	281-1496-ND	—	281-1502-ND	281-1501-ND	281-1505-ND 281-1506-ND	281-1533-ND	281-1534-ND	281-1550-ND
8	WDK 2.5 DU-PE	281-1555-ND	5.21	4.69	4.17	1036400000	281-1496-ND	—	281-1502-ND	281-1501-ND	—	281-1533-ND	281-1534-ND	281-1550-ND
9	WDU 1.5/R 3.5	281-1476-ND	1.43	1.29	1.14	1753280000	—	281-1478-ND	281-1480-ND	—	281-1481-ND 281-1482-ND	281-1533-ND	281-1535-ND	281-1536-ND 281-1537-ND
10	WDK 1.5/R 3.5	281-1477-ND	3.15	2.84	2.52	1753290000	—	281-1479-ND	281-1480-ND —	—	281-1481-ND 281-1482-ND	281-1533-ND	281-1535-ND	281-1536-ND 281-1537-ND
11	WDK 4N	281-1473-ND	4.08	3.67	3.26	1041900000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1514-ND 281-1515-ND	281-1533-ND	281-1534-ND	281-1550-ND
12	WDK 4NV	281-1474-ND	7.20	6.48	5.76	1041910000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1514-ND 281-1515-ND	281-1533-ND	281-1534-ND	281-1550-ND
13	WDK 2.5 NV	281-1475-ND	7.16	6.44	5.73	1041610000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1505-ND 281-1506-ND	281-1533-ND	281-1534-ND	281-1550-ND

Accessories

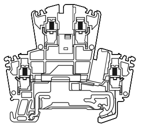
Description	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
Grounding Blocks					
WPE 2.5N	281-1490-ND	5.46	4.92	4.37	1016200000
WPE 2.5	281-1491-ND	5.70	5.13	4.56	1010000000
WPE 4	281-1492-ND	5.85	5.27	4.68	1010100000
WPE 6	281-1493-ND	6.36	5.73	5.09	1010200000
WPE 10	281-1494-ND	6.68	6.01	5.34	101 0300000
WPE 16	281-1495-ND	8.36	7.52	6.69	1010400000
WDK 2.5N DU-PE	281-1496-ND*	6.24	5.62	5.00	1041650000
WDK 4N PE	281-1497-ND†	7.08	6.38	5.67	1041920000
End Plates					
WAP WDU 1.5/R 3.5	281-1478-ND	.30	.27	.24	1754190000
WAP WDK 1.5/R 3.5	281-1479-ND	.81	.73	.65	1754200000
WAP WDU 1.5	281-1499-ND	.72	.65	.58	1060000000
WAP WDU 2.5	281-1500-ND	.75	.68	.60	1050000000
End Brackets					
EW 15	281-1480-ND	.66	.60	.53	3828600000
WEW 35/1	281-1502-ND	4.02	3.62	3.22	1061200000
WEW 35/2	281-1503-ND	2.07	1.87	1.66	1059000000
Partitions					
WTW	281-1501-ND	4.17	3.76	3.34	1058800000
Jumpers					
ZQV 1.5/R 3.5/2 GE	281-1481-ND	.45	.41	.36	1754210000
ZQV 1.5/R 3.5/3 GE	281-1482-ND	.92	.83	.74	1754220000
ZQV 2.5N/2	281-1505-ND	.50	.45	.40	1693800000
ZQV 2.5N/3	281-1506-ND	.95	.86	.76	1693810000
ZQV 4N/2	281-1514-ND	1.07	.96	.86	1758250000
ZQV 4N/3	281-1515-ND	1.59	1.44	1.28	1762630000
ZQV 4N/10	281-1517-ND	5.21	4.69	4.17	1758260000

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
Jumper Links					
WQV 6/2	281-1518-ND	1.58	1.42	1.26	1052360000
WQV 6/3	281-1519-ND	2.31	2.08	1.85	1054760000
WQV 6/4	281-1520-ND	3.02	2.72	2.42	1054860000
WQV 6/10	281-1521-ND	7.22	6.50	5.78	1052260000
WQV 10/2	281-1522-ND	1.65	1.49	1.32	1052560000
WQV 10/3	281-1523-ND	2.31	2.08	1.85	1054960000
WQV 10/4	281-1524-ND	3.02	2.72	2.42	1055060000
WQV 10/10	281-1525-ND	7.22	6.50	5.78	1052460000
WQV 16/10	281-1529-ND	7.56	6.81	6.05	1053360000
Notching Tool					
Cutting Tool WAW 1	281-1533-ND	39.48	—	—	900450
Screwdrivers					
0.6 x 3.5	281-1530-ND	9.77	8.79	7.82	9008330000
0.8 x 4.0	281-1531-ND	13.23	11.91	10.59	900834
1.0 x 5.5	281-1532-ND	18.00	16.20	14.40	900835
DIN Rail - Slotted 1M					
TS 35 x 7.5mm	281-1534-ND	11.60	10.44	9.28	51451
TS 15 x 5.5mm	281-1535-ND	9.95	8.96	7.96	11751
Marking Pen					
STI - Black	281-1554-ND	7.14	6.43	5.72	508401694
Outlet Modules					
AC, Single	281-1560-ND	15.75	14.40	11.25	9915480000
AC, Duplex	281-1561-ND	25.20	23.04	18.00	9915490000
Fuse Block					
With Indicator	281-1562-ND	12.15	11.11	8.68	67601493

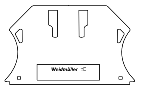
* Single level + ground † Double level grounding block

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
Marker Strips					
DEK 5/3.5 MC Blank (unprinted)	281-1536-ND	8.40	7.56	6.72	1755270000
DEK 5/3.5 FS 1-10 Premarked (printed)	281-1537-ND	8.40	7.56	6.72	1762320001
WS 10/5 Blank (unprinted)	281-1547-ND	1.44	1.30	1.16	1060860000
WS 10/6 Blank (unprinted)	281-1548-ND	1.49	1.34	1.19	1060960000
DEK 5/5 Blank (unprinted)	281-1550-ND	2.43	2.19	1.95	0473360000
DEK 5/6 Blank (unprinted)	281-1551-ND	2.43	2.19	1.95	0468560000
DEK 5/8 Blank (unprinted)	281-1553-ND	2.58	2.33	2.07	1277060000

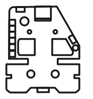
Grounding Blocks Grounds connected wires to DIN rail



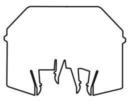
End Plates - Covers open end of terminal block



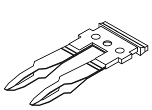
End Brackets - Clamps blocks into place on Rail



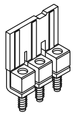
Partitions - WTW



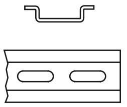
Jumpers - For cross connection ZQV



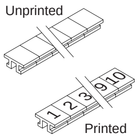
Jumper Links - For cross connection WQV



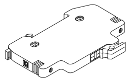
DIN Rail-with mounting holes



Marker Strips-Will mark termination points

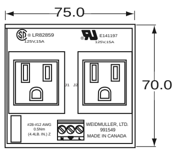


Fuse Block TS 35 DIN Rail with neon indicator

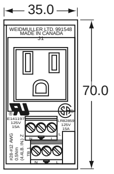


Outlet Modules-TS 35 DIN Rail

Duplex



Single



AMERICAN ELECTRICAL INC.

DIN Rail

Features: • Steel Design • CE Approved • Zinc Chromate Plating • No Markings on Rail

PART NUMBERING SYSTEM

ADR☐☐☐☐-☐☐☐☐☐-ND

A = AMERICAN ELECTRICAL INC

DR = DIN RAIL

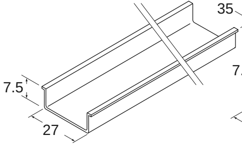
Width and height in MM
3575 = 35MM X 7.55MM
3515 = 35MM X 15MM

S = Slotted
U = Unslotted

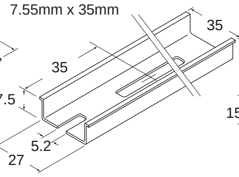
Length in inches with an implied decimal point after the second digit. Example: 3 IN = 0300

Note: Lengths exceeding 48" may incur additional shipping charges.

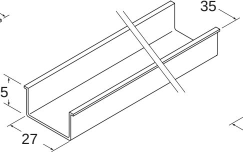
Unslotted
7.55mm x 35mm



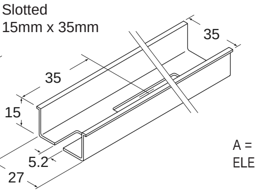
Slotted
7.55mm x 35mm



Unslotted
15mm x 35mm



Slotted
15mm x 35mm



Length (In.)	Digi-Key Part No.	"U" Price Each			"S" Price Each		
		1	10	100	1	10	100
	U = Unslotted S = Slotted						
3	ADR3575-☐0300-ND	1.44	1.08	.75	1.44	1.08	.75
4	ADR3575-☐0400-ND	1.61	1.22	.88	1.61	1.22	.88
5	ADR3575-☐0500-ND	1.63	1.26	.94	1.63	1.26	.94
6	ADR3575-☐0600-ND	1.88	1.45	1.09	1.88	1.45	1.09
7	ADR3575-☐0700-ND	2.15	1.66	1.25	2.15	1.66	1.25
8	ADR3575-☐0800-ND	2.40	1.87	1.40	2.40	1.87	1.40
9	ADR3575-☐0900-ND	2.65	2.07	1.55	2.65	2.07	1.55
10	ADR3575-☐1000-ND	2.89	2.25	1.69	2.89	2.25	1.69
11	ADR3575-☐1100-ND	3.11	2.44	1.83	3.11	2.44	1.83
12	ADR3575-☐1200-ND	3.32	2.61	1.96	3.32	2.61	1.96
13	ADR3575-☐1300-ND	3.52	2.77	2.08	3.52	2.77	2.08
14	ADR3575-☐1400-ND	3.71	2.93	2.20	3.71	2.93	2.20
15	ADR3575-☐1500-ND	3.88	3.08	2.31	3.88	3.08	2.31
16	ADR3575-☐1600-ND	4.04	3.22	2.42	4.04	3.22	2.42
17	ADR3575-☐1700-ND	4.20	3.36	2.52	4.20	3.36	2.52
18	ADR3575-☐1800-ND	4.34	3.48	2.61	4.34	3.48	2.61
19	ADR3575-☐1900-ND	4.48	3.59	2.69	4.48	3.59	2.69
20	ADR3575-☐2000-ND	4.61	3.69	2.77	4.61	3.69	2.77
21	ADR3575-☐2100-ND	4.73	3.79	2.84	4.73	3.79	2.84
22	ADR3575-☐2200-ND	4.84	3.88	2.91	4.84	3.88	2.91
23	ADR3575-☐2300-ND	4.94	3.95	2.97	4.94	3.95	2.97
24	ADR3575-☐2400-ND	5.02	4.02	3.02	5.02	4.02	3.02
25	ADR3575-☐2500-ND	5.10	4.09	3.07	5.10	4.09	3.07
26	ADR3575-☐2600-ND	5.17	4.14	3.10	5.17	4.14	3.10
27	ADR3575-☐2700-ND	5.27	4.22	3.17	5.27	4.22	3.17
28	ADR3575-☐2800-ND	5.42	4.34	3.26	5.42	4.34	3.26
29	ADR3575-☐2900-ND	5.58	4.47	3.36	5.58	4.47	3.36
30	ADR3575-☐3000-ND	5.73	4.59	3.45	5.73	4.59	3.45
31	ADR3575-☐3100-ND	5.88	4.70	3.54	5.88	4.70	3.54
32	ADR3575-☐3200-ND	6.02	4.82	3.63	6.02	4.82	3.63
33	ADR3575-☐3300-ND	6.16	4.93	3.72	6.16	4.93	3.72
34	ADR3575-☐3400-ND	6.30	5.05	3.81	6.30	5.05	3.81
35	ADR3575-☐3500-ND	6.44	5.16	3.90	6.44	5.16	3.90
36	ADR3575-☐3600-ND	6.57	5.26	3.98	6.57	5.26	3.98
37	ADR3575-☐3700-ND	6.71	5.37	4.06	6.71	5.37	4.06
38	ADR3575-☐3800-ND	6.83	5.47	4.15	6.83	5.47	4.15
39	ADR3575-☐3900-ND	6.96	5.57	4.23	6.96	5.57	4.23
40	ADR3575-☐4000-ND	7.08	5.67	4.30	7.08	5.67	4.30
41	ADR3575-☐4100-ND	7.20	5.77	4.38	7.20	5.77	4.38
42	ADR3575-☐4200-ND	7.32	5.86	4.46	7.32	5.86	4.46
43	ADR3575-☐4300-ND	7.44	5.95	4.53	7.44	5.95	4.53
44	ADR3575-☐4400-ND	7.55	6.04	4.61	7.55	6.04	4.61
45	ADR3575-☐4500-ND	7.66	6.13	4.68	7.66	6.13	4.68
46	ADR3575-☐4600-ND	7.77	6.22	4.75	7.77	6.22	4.75
47	ADR3575-☐4700-ND	7.87	6.30	4.82	7.87	6.30	4.82
48	ADR3575-☐4800-ND	7.97	6.38	4.88	7.97	6.38	4.88
49	ADR3575-☐4900-ND	8.07	6.46	4.95	8.07	6.46	4.95
50	ADR3575-☐5000-ND	8.17	6.54	5.01	8.17	6.54	5.01
51	ADR3575-☐5100-ND	8.26	6.61	5.07	8.26	6.61	5.07
52	ADR3575-☐5200-ND	8.35	6.68	5.14	8.35	6.68	5.14
53	ADR3575-☐5300-ND	8.44	6.75	5.20	8.44	6.75	5.20
54	ADR3575-☐5400-ND	8.55	6.84	5.27	8.55	6.84	5.27
55	ADR3575-☐5500-ND	8.67	6.93	5.34	8.67	6.93	5.34
56	ADR3575-☐5600-ND	8.79	7.02	5.41	8.79	7.02	5.41
57	ADR3575-☐5700-ND	8.91	7.11	5.49	8.91	7.11	5.49
58	ADR3575-☐5800-ND	9.02	7.20	5.56	9.02	7.20	5.56
59	ADR3575-☐5900-ND	9.14	7.29	5.63	9.14	7.29	5.63
60	ADR3575-☐6000-ND	9.25	7.38	5.70	9.25	7.38	5.70
61	ADR3575-☐6100-ND	9.36	7.46	5.77	9.36	7.46	5.77
62	ADR3575-☐6200-ND	9.47	7.54	5.83	9.47	7.54	5.83
63	ADR3575-☐6300-ND	9.58	7.62	5.90	9.58	7.62	5.90
64	ADR3575-☐6400-ND	9.69	7.71	5.97	9.69	7.71	5.97
65	ADR3575-☐6500-ND	9.80	7.79	6.03	9.80	7.79	6.03
66	ADR3575-☐6600-ND	9.90	7.86	6.10	9.90	7.86	6.10
67	ADR3575-☐6700-ND	10.01	7.94	6.16	10.01	7.94	6.16
68	ADR3575-☐6800-ND	10.11	8.02	6.22	10.11	8.02	6.22
69	ADR3575-☐6900-ND	10.21	8.09	6.29	10.21	8.09	6.29
70	ADR3575-☐7000-ND	10.31	8.16	6.35	10.31	8.16	6.35
71	ADR3575-☐7100-ND	10.41	8.24	6.41	10.41	8.24	6.41
72	ADR3575-☐7200-ND	10.50	8.31	6.47	10.50	8.31	6.47
73	ADR3575-☐7300-ND	10.60	8.38	6.53	10.60	8.38	6.53
74	ADR3575-☐7400-ND	10.69	8.44	6.58	10.69	8.44	6.58
75	ADR3575-☐7500-ND	10.79	8.51	6.64	10.79	8.51	6.64
76	ADR3575-☐7600-ND	10.88	8.58	6.70	10.88	8.58	6.70
77	ADR3575-☐7700-ND	10.97	8.64	6.75	10.97	8.64	6.75
78	ADR3575-☐7800-ND	11.06	8.70	6.80	11.06	8.70	6.80
—	**ADR3575-☐7874-ND***	11.12	8.75	6.84	11.12	8.75	6.84

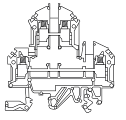
Length (In.)	Digi-Key Part No.	"U" Price Each			"S" Price Each		
		1	10	100	1	10	100
	U = Unslotted S = Slotted						
3	ADR3515-☐0300-ND	1.51	1.14	.80	1.51	1.14	.80
4	ADR3515-☐0400-ND	1.64	1.25	.91	1.64	1.25	.91
5	ADR3515-☐0500-ND	1.74	1.34	1.01	1.74	1.34	1.01
6	ADR3515-☐0600-ND	2.05	1.58	1.19	2.05	1.58	1.19
7	ADR3515-☐0700-ND	2.34	1.81	1.36	2.34	1.81	1.36
8	ADR3515-☐0800-ND	2.61	2.03	1.53	2.61	2.03	1.53
9	ADR3515-☐0900-ND	2.87	2.24	1.68	2.87	2.24	1.68
10	ADR3515-☐1000-ND	3.12	2.44	1.83	3.12	2.44	1.83
11	ADR3515-☐1100-ND	3.35	2.63	1.98	3.35	2.63	1.98
12	ADR3515-☐1200-ND	3.57	2.81	2.11	3.57	2.81	2.11
13	ADR3515-☐1300-ND	3.77	2.98	2.24	3.77	2.98	2.24
14	ADR3515-☐1400-ND	3.96	3.15	2.36	3.96	3.15	2.36
15	ADR3515-☐1500-ND	4.13	3.30	2.47	4.13	3.30	2.47
16	ADR3515-☐1600-ND	4.29	3.44	2.58	4.29	3.44	2.58
17	ADR3515-☐1700-ND	4.45	3.56	2.68	4.45	3.56	2.68
18	ADR3515-☐1800-ND	4.60	3.68	2.76	4.60	3.68	2.76
19	ADR3515-☐1900-ND	4.73	3.79	2.84	4.73	3.79	2.84
20	ADR3515-☐2000-ND	4.85	3.88	2.91	4.85	3.88	2.91
21	ADR3515-☐2100-ND	4.95	3.97	2.98	4.95	3.97	2.98
22	ADR3515-☐2200-ND	5.05	4.04	3.03	5.05	4.04	3.03
23	ADR3515-☐2300-ND	5.13	4.11	3.08	5.13	4.11	3.08
24	ADR3515-☐2400-ND	5.20	4.16	3.12	5.20	4.16	3.12
25	ADR3515-☐2500-ND	5.36	4.29	3.22	5.36	4.29	3.22
26	ADR3515-☐2600-ND	5.53	4.43	3.33	5.53	4.43	3.33
27	ADR3515-☐2700-ND	5.70	4.56	3.43	5.70	4.56	3.43
28	ADR3515-☐2800-ND	5.86	4.69	3.53	5.86	4.69	3.53
29	ADR3515-☐2900-ND	6.02	4.82	3.63	6.02	4.82	3.63
30	ADR3515-☐3000-ND	6.18	4.95	3.73	6.18	4.95	3.73
31	ADR3515-☐3100-ND	6.33	5.07	3.83	6.33	5.07	3.83
32	ADR3515-☐3200-ND	6.48	5.19	3.92	6.48	5.19	3.92
33	ADR3515-☐3300-ND	6.63	5.31	4.02	6.63	5.31	4.02
34	ADR3515-☐3400-ND	6.77	5.42	4.11	6.77	5.42	4.11
35	ADR3515-☐3500-ND	6.92	5.54	4.20	6.92	5.54	4.20
36	ADR3515-☐3600-ND	7.05	5.65	4.28	7.05	5.65	4.28
37	ADR3515-☐3700-ND	7.19	5.75	4.37	7.19	5.75	4.37
38	ADR3515-☐3800-ND	7.32	5.86	4.45	7.32	5.86	4.45
39	ADR3515-☐3900-ND	7.44	5.96	4.54	7.44	5.96	4.54
40	ADR3515-☐4000-ND	7.57	6.06	4.62	7.57	6.06	4.62
41	ADR3515-☐4100-ND	7.69	6.15	4.69	7.69	6.15	4.69
42	ADR3515-☐4200-ND	7.80	6.25	4.77	7.80	6.25	4.77
43	ADR3515-☐4300-ND	7.92	6.34	4.85	7.92	6.34	4.85
44	ADR3515-☐4400-ND	8.03	6.43	4.92	8.03	6.43	4.92
45	ADR3515-☐4500-ND	8.13	6.51	4.99	8.13	6.51	4.99
46	ADR3515-☐4600-ND	8.24	6.59	5.06	8.24	6.59	5.06
47	ADR3515-☐4700-ND	8.34	6.67	5.13	8.34	6.67	5.13
48	ADR3515-☐4800-ND	8.43	6.75	5.19	8.43	6.75	5.19
49	ADR3515-☐4900-ND	8.56	6.85	5.27	8.56	6.85	5.27
50	ADR3515-☐5000-ND	8.69	6.95	5.36	8.69	6.95	5.36
51	ADR3515-☐5100-ND	8.83	7.05	5.44	8.83	7.05	5.44
52	ADR3515-☐5200-ND	8.95	7.15	5.52	8.95	7.15	5.52
53	ADR3515-☐5300-ND	9.08	7.25	5.59	9.08	7.25	5.59
54	ADR3515-☐5400-ND	9.21	7.34	5.67	9.21	7.34	5.67
55	ADR3515-☐5500-ND	9.33	7.44	5.75	9.33	7.44	5.75
56	ADR3515-☐5600-ND	9.45	7.53	5.82	9.45	7.53	5.82
57	ADR3515-☐5700-ND	9.58	7.62	5.90	9.58	7.62	5.90
58	ADR3515-☐5800-ND	9.69	7.71	5.97	9.69	7.71	5.97
59	ADR3515-☐5900-ND	9.81	7.80	6.04	9.81	7.80	6.04
60	ADR3515-☐6000-ND	9.93	7.88	6.11	9.93	7.88	6.11
61	ADR3515-☐6100-ND	10.04	7.97	6.18	10.04	7.97	6.18
62	ADR3515-☐6200-ND	10.15	8.05	6.25	10.15	8.05	6.25
63	ADR3515-☐6300-ND	10.26	8.13	6.32	10.26	8.13	6.32
64	ADR3515-☐6400-ND	10.37	8.21	6.39	10.37	8.21	6.39
65	ADR3515-☐6500-ND	10.48	8.29	6.45	10.48	8.29	6.45
66	ADR3515-☐6600-ND	10.59	8.37	6.52	10.59	8.37	6.52
67	ADR3515-☐6700-ND	10.69	8.44	6.58	10.69	8.44	6.58
68	ADR3515-☐6800-ND	10.79	8.51	6.64	10.79	8.51	6.64
69	ADR3515-☐6900-ND	10.89	8.59	6.70	10.89	8.59	6.70
70	ADR3515-☐7000-ND	10.99	8.66	6.77	10.99	8.66	6.77
71	ADR3515-☐7100-ND	11.09	8.73	6.83	11.09	8.73	6.83
72	ADR3515-☐7200-ND	11.18	8.79	6.88	11.18	8.79	6.88
73	ADR3515-☐7300-ND	11.28	8.86	6.94	11.28	8.86	6.94
74	ADR3515-☐7400-ND	11.37	8.92	7.00	11.37	8.92	7.00
75	ADR3515-☐7500-ND	11.46	8.99	7.05	11.46	8.99	7.05
76	ADR3515-☐7600-ND	11.55	9.05	7.11	11.55	9.05	7.11
77	ADR3515-☐7700-ND	11.64	9.11	7.16	11.64	9.11	7.16
78	ADR3515-☐7800-ND	11.72	9.17	7.21	11.72	9.17	7.21
—	**ADR3515-☐7874-ND***	11.78	9.21	7.25	11.78	9.21	7.25

Note: ☐ S = Slotted, U = Unslotted **Note:** Sold in 1" increments from 3 to 78". Call for custom lengths and pricing!

***** 2 meter length

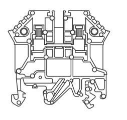
DIN Rail Mounted Terminal Blocks and Accessories

Fig. 1



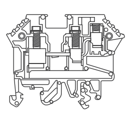
Color: Beige

Fig. 2



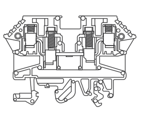
Color: Beige

Fig. 3



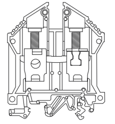
Color: Beige

Fig. 4



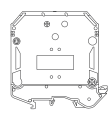
Color: Beige

Fig. 5



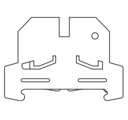
Color: Beige

Fig. 6



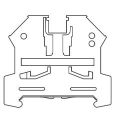
Color: Beige

Fig. 7



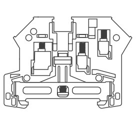
Color: Green/Yellow

Fig. 8



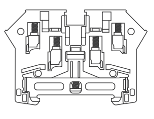
Color: Green/Yellow

Fig. 9



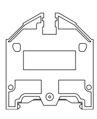
Color: Green/Yellow

Fig. 10



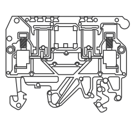
Color: Green/Yellow

Fig. 11



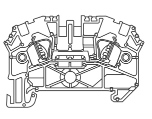
Color: Green/Yellow

Fig. 12



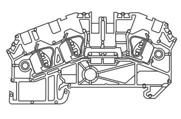
Color: Beige

Fig. 13



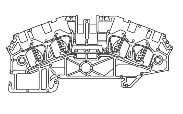
Color: Beige

Fig. 14



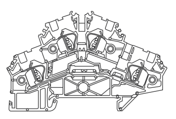
Color: Beige

Fig. 15



Color: Beige

Fig. 16



Color: Beige

Terminal Blocks							Specifications				Accessories								
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.	Dimensions L x W x H (mm)	Wire Size (AWG)	UL Rated Voltage (V)	UL Rated Current (A)	End Plate	Isolation Partition	Separator	End Bracket	Test Socket	Test Plug	Cross Connection	Marker Strip (Blank)	Marker Strip (1-10)
Screw Terminal																			
1	SRD 2.5	ED2542-ND	2.30	2.07	1.84	41206.2	59 x 5 x 60	22-14	300	20	2101.2	—	2566.2	2826.2	2075.0	2007.0	2567.0/2570.0	2430.0	2431.0
1	SRD 4	ED2527-ND	2.40	2.16	1.92	41020.2	59 x 6 x 60	22-12	300	30	2101.2	—	2566.2	2826.2	2075.0	2007.0	2087.0/2090.0	2430.0	2431.0
2	SR 10	ED2526-ND	1.48	1.33	1.18	41005.2	48 x 8 x 47	22-8	600	65	2001.2	2002.2	2003.2	2826.2	—	—	2060.0/2750.2 & 2063.0/2753.2	—	—
2	SR 2.5	ED2547-ND	.93	.84	.74	41296.2	48 x 5 x 47	22-14	600	20	2001.2	2002.2	2566.2	2826.2	2075.0	2007.0	2567.0/2570.0	2430.0	2431.0
2	SR 4	ED2525-ND	.95	.86	.76	41001.2	48 x 6 x 47	22-10	600	40	2001.2	2002.2	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
3	SR 4 DR	ED2543-ND	1.85	1.67	1.48	41210.2	57 x 6 x 47	22-12	600	20	—	—	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
4	SR 4 DRL	ED2544-ND	2.58	2.32	2.06	41211.2	67 x 6 x 47	22-12	600	20	—	—	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
5	SR 16	ED2528-ND	2.20	1.98	1.76	41050.2	50 x 12 x 58	12-4	600	85	2104.2	—	2003.2	2826.2	—	—	2112.0	—	—
5	SR 35	ED2529-ND	4.30	3.87	3.44	41052.2	58 x 16 x 71	12-2	600	115	2116.2	—	—	2761.0	—	—	—	—	—
6	SR 150	ED2538-ND	24.68	22.21	19.74	41124.2	93 x 31 x 109	2-300MCM	600	275	—	—	—	2761.0	—	—	—	—	—
6	SR 240	ED2539-ND	29.63	26.67	23.70	41126.2	93 x 36 x 123	2/0-500	600	370	—	—	—	2761.0	—	—	—	—	—
6	SR 50	ED2536-ND	9.95	8.96	7.96	41120.2	79 x 20 x 76	6-1/0	600	150	—	—	—	2761.0	—	—	—	—	—
6	SR 95	ED2537-ND	19.75	17.78	15.80	41122.2	84 x 25 x 88	2-4/0	600	230	—	—	—	2761.0	—	—	—	—	—
12	SRSI 4-2	ED2535-ND	4.33	3.90	3.46	41078.2	51 x 8 x 39	22-12	300	6.3	—	—	—	2826.2	—	—	—	—	—
Tension Spring																			
13	ZR 2.5	ED2548-ND*	.98	.88	.78	43500.2	59 x 5 x 39	20-12	600	27	3700.2	2957.2	—	—	—	—	3710.8/3718.8	2430.0	2431.0
13	ZR 4	ED2553-ND*	1.15	1.04	.92	43515.2	64 x 6 x 42	20-10	600	35	3703.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
14	ZR 2.5 DR	ED2549-ND*	1.40	1.26	1.12	43501.2	71.3 x 5 x 39	20-12	600	27	3701.2	2957.2	—	—	—	—	3710.8/3718.8	2430.0	2431.0
14	ZR 4 DR	ED2554-ND*	1.58	1.42	1.26	43516.2	78.5 x 6 x 42	20-10	600	35	3704.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
15	ZR 2.5 DRL	ED2550-ND*	1.83	1.65	1.46	43502.2	83.6 x 5 x 39	20-12	600	27	3702.2	2957.2	—	—	—	—	3710.8/3718.8	2430.0	2431.0
15	ZR 4 DRL	ED2555-ND*	1.98	1.78	1.58	43517.2	93 x 6 x 42	20-10	600	35	3705.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
16	ZRD 2.5	ED2559-ND	2.25	2.03	1.80	43562.2	84 x 5 x 53	20-12	300	10	3756.2	—	—	3748.2	—	—	3710.8/3718.8	2430.0	2431.0

Grounding Blocks											
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.	Dim. (mm) L x W x H	Wire Size (AWG)	Isolation Partition	Marker Strip (Blank)	Marker Strip (1-10)
6	SRSL 4-T15	ED2534-ND†	2.80	2.52	2.24	41064.2	32 x 7 x 32	22-10	—	—	—
7	SRSLN 2.5-T35	ED2531-ND	2.93	2.64	2.34	41058.2	52 x 6 x 39	22-14	—	2035.0	2036.0
8	SRSL 10-T35	ED2546-ND	3.88	3.49	3.10	41213.2	56 x 10 x 47	20-8	—	—	—
8	SRSL 2.5-T35	ED2530-ND	2.93	2.64	2.34	41056.2	52 x 6 x 47	22-14	—	2035.0	2036.0
8	SRSL 4-T35	ED2545-ND	3.13	2.82	2.50	41212.2	56 x 8 x 47	22-10	—	—	—
9	SRSL 2.5-T35 DR	ED2532-ND	3.95	3.56	3.16	41060.2	62.5 x 6 x 47	22-14	—	2430.0	2431.0
10	SRSL 2.5-T35 DRL	ED2533-ND	4.10	3.69	3.28	41062.2	67 x 6 x 47	22-14	—	2035.0	2036.0
11	SRSL 16-T35	ED2540-ND	6.05	5.45	4.84	41197.2	56 x 12 x 58	12-6	—	—	—
11	SRSL 35-T35	ED2541-ND	8.13	7.32	6.50	41199.2	58 x 16 x 71	12-2	—	—	—
13	ZRSL 2.5	ED2551-ND†	3.40	3.06	2.72	43510.2	59 x 5 x 39	20-12	2957.2	2430.0	2431.0
13	ZRSL 4	ED2556-ND†	3.43	3.09	2.74	43525.2	64 x 6 x 42	20-10	2957.2	2035.0	2036.0
14	ZRSL 4 DR	ED2557-ND†	4.13	3.72	3.30	43526.2	78.5 x 6 x 42	20-10	2957.2	2430.0	2431.0
15	ZRSL 2.5 DRL	ED2552-ND†	4.70	4.23	3.76	43512.2	83.6 x 5 x 39	20-12	2957.2	2430.0	2431.0
15	ZRSL 4 DRL	ED2558-ND†	5.53	4.98	4.42	43527.2	93 x 6 x 42	20-10	2957.2	2035.0	2036.0
16	ZRSLD 2.5	ED2560-ND†	4.08	3.67	3.26	43567.2	84 x 5 x 53	20-12	—	2430.0	2431.0

*UL approvals pending †Color: Green/Yellow

Accessories

END PLATES:

In general end plates are used at the end of each terminal row. If different terminals of different sizes are used on 1 terminal row, end plates are also used between these different sized terminals. The overall dimension of end plates conform to the dimension of the terminal to match.

ISOLATION PARTITIONS:

When operating with cross-connections, partition plates have to be mounted between the cross-connection. This is necessary in order to follow the prescribed air and creepage distances.

SEPERATORS:

Some terminal types are used with separators when operating them with cross-connections for to follow the prescribed air and creepage distances. Seperators can be mounted subsequently between the cross-connections.

TEST-SOCKETS:

Sockets type STB are inserted in the busbar or screwed in the modular terminal in place of the terminal screw. They serve to take up the test sockets type PS.

TEST PLUGS:

Test plug type PS serve for the final testing of finished wired terminal strips.

CROSS-CONNECTION SYSTEMS:

Q - Cross connection; QI - For cross connections the cross connection bar, connection sleeve and fixing screw are already captively mounted with the corresponding number of poles.

Series	Description	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.
End Plates						
AP 1.5-4	—	ED2505-ND	.45	.41	.36	2738.2
AP 16	—	ED2495-ND	.70	.63	.56	2104.2
AP 2.5-10	—	ED2478-ND	.50	.45	.40	2001.2
AP 35	—	ED2497-ND	1.00	.90	.80	2116.2
AP 4	—	ED2494-ND	.83	.75	.66	2101.2
AP-SR	—	ED2490-ND	.45	.41	.36	2070.2
ZAP 2.5/2A	—	ED2513-ND	.63	.57	.50	3700.2
ZAP 2.5/3A	—	ED2514-ND	.65	.59	.52	3701.2
ZAP 2.5/4A	—	ED2515-ND	.68	.61	.54	3702.2
ZAP 4/2A	—	ED2516-ND	.65	.59	.52	3703.2
ZAP 4/3A	—	ED2517-ND	.70	.63	.56	3704.2
ZAP 4/4A	—	ED2518-ND	.73	.66	.58	3705.2
ZAPD 2.5	—	ED2524-ND	1.05	.95	.84	3756.2
Isolation Partitions						
TW 2.5-10	—	ED2479-ND	.65	.59	.52	2002.2
TWMF	—	ED2512-ND	2.28	2.05	1.82	2957.2
Separators						
TRS 1	—	ED2480-ND	.15	.14	.12	2003.2
TRS 3	—	ED2502-ND	.18	.16	.14	2566.2
End Brackets						
ES 35/2/K	7.5mm	ED2481-ND	.53	.48	.42	2005.2
ES 35/2/K	8mm	ED2509-ND	.83	.75	.66	2826.2
HES 35 ST	11mm	ED2508-ND	2.55	2.30	2.04	2761.0
ZES 35	6mm	ED2523-ND	.80	.72	.64	3748.2
Test Sockets						
STB 14/2.3	—	ED2482-ND	.30	.27	.24	2006.0
STB 8.5/2.3	—	ED2491-ND	.30	.27	.24	2075.0
Test Plug						
PS 2.3	—	ED2483-ND	2.58	2.32	2.06	2007.0

Series	Description	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.
Cross Connection Jumpers for Screw Terminal Blocks						
Q 2	—	ED2484-ND	.90	.81	.72	2019.0
Q 2	—	ED2488-ND	1.33	1.20	1.06	2060.0
Q 2	—	ED2492-ND	.90	.81	.72	2087.0
Q 2	—	ED2496-ND	1.53	1.38	1.22	2112.0
Q 2	—	ED2498-ND	.90	.81	.72	2422.0
Q 2	—	ED2503-ND	.90	.81	.72	2567.0
Q 2	—	ED2510-ND	.90	.81	.72	2832.0
Q 10	—	ED2485-ND	3.88	3.49	3.10	2022.0
Q 10	—	ED2489-ND	6.15	5.54	4.92	2063.0
Q 10	—	ED2493-ND	3.88	3.49	3.10	2090.0
Q 10	—	ED2499-ND	3.88	3.49	3.10	2425.0
Q 10	—	ED2504-ND	3.88	3.49	3.10	2570.0
Q 10	—	ED2511-ND	3.88	3.49	3.10	2835.0
QI 2	—	ED2506-ND	1.08	.97	.86	2740.2
QI 10	—	ED2507-ND	5.15	4.64	4.12	2743.2
Cross Connection Jumpers for Tension Spring Terminal Blocks						
ZQI 2.5/10	—	ED2520-ND	4.70	4.23	3.76	3718.8
ZQI 2.5/2	—	ED2519-ND	.53	.48	.42	3710.8
ZQI 4/10	—	ED2522-ND	5.10	4.59	4.08	3728.8
ZQI 4/2	—	ED2521-ND	.58	.52	.46	3720.8
Marker Strips						
SB 5/10	Blank Strip/10 5mm	ED2500-ND	.50	.45	.40	2430.0
SB 5/10 FW 1-10	Printed Strip/10 5mm	ED2501-ND	.50	.45	.40	2431.0(1-10)
SB 6/10	Blank Strip/10 6mm	ED2486-ND	.50	.45	.40	2035.0
SB 6/10 FW 1-10	Printed Strip/10 6mm	ED2487-ND	.50	.45	.40	2036.0(1-10)

PHOENIX CONTACT DIN Rail-Mounted Terminal Blocks and Accessories

Fig. 1 — MT 1.5
- Termination Block Width: 4.2mm • Terminations per Linear Meter: 476 • Wire Size (UL): 30-14 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 15A

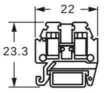


Fig. 2 — MTTB 1.5
- Termination Block Width: 4.2mm • Terminations per Linear Meter: 952 • Wire Size (UL): 30-14 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 15A

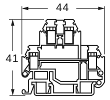


Fig. 3 — MBK 3/E-Z
- Termination Block Width: 5.2mm • Terminations per Linear Meter: 384 • Wire Size (UL): 28-12 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 20A

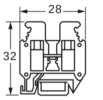


Fig. 4 — MBK 5/E-Z
- Termination Block Width: 6.2mm • Terminations per Linear Meter: 322 • Wire Size (UL): 26-10 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 30A

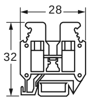


Fig. 5 — UK 1.5 N
- Termination Block Width: 4.2mm • Terminations per Linear Meter: 476 • Wire Size (UL): 30-14 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 15A

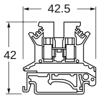


Fig. 6 — UK 2.5 N
- Termination Block Width: 5.2mm • Terminations/Linear Meter: 384 • Wire Size (UL): 30-12 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 20A

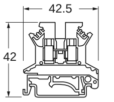


Fig. 7 — UK 5 N
- Termination Block Width: 6.2mm • Terminations/Linear Meter: 322 • Wire Size (UL): 30-10 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 30A

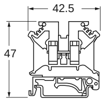


Fig. 8 — UK 6 N
- Termination Block Width: 8.2mm • Terminations/Linear Meter: 242 • Wire Size (UL): 26-8 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 50A

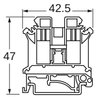


Fig. 9 — UK 10 N
- Termination Block Width: 10.2mm • Terminations per Linear Meter: 196 • Wire Size (UL): 24-6 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 65A

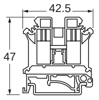


Fig. 10 — UKK 5
- Termination Block Width: 6.2mm • Terminations/Linear Meter: 644 • Wire Size (UL): 26-10 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 30A

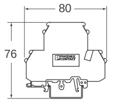


Fig. 11 — SLKK 5
- Termination Block Width: 6.2mm • Terminations/Linear Meter: 805 • Wire Size (UL): 26-10 AWG • Volt. Approval (UL): 600V • Current Approval (UL): 30A

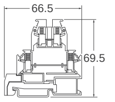


Fig. 12 — DIK 1.5
- Termination Block Width: 6.2mm • Wire Size (UL): 30-14 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 15A

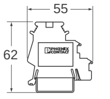


Fig. 13 — DIKD 1.5
- Termination Block Width: 6.2mm • Wire Size (UL): 30-14 AWG • Voltage Approval (UL): 300V • Current Approval (UL): 15A

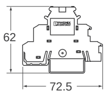


Fig. 14 — UDK 4
- Termination Block Width: 6.2mm • Wire Size (UL): 30-10 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 30A

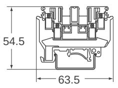


Fig. 15 — UK 4
- Termination Block Width: 6.2mm • Wire Size (UL): 28-12 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 20A

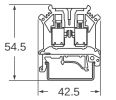


Fig. 16 — UK 5-HESI
- Termination Block Width: 8.2mm • Wire Size (UL): 26-10 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 6.3A

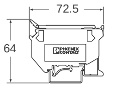


Fig. 17 — UKK 5-HESI
- Termination Block Width: 8.2mm • Wire Size (UL): 24-8 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 30A

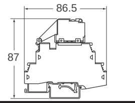


Fig. 18 — UK 6.3-HESI
- Termination Block Width: 10.2mm • Wire Size (UL): 26-8 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 25A

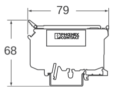
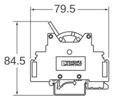


Fig. 19 — UK 10.3-HESI
- Termination Block Width: 17.6mm • Wire Size (UL): 24-8 AWG • Voltage Approval (UL): 600V • Current Approval (UL): 35A



Terminal Blocks

Fig.	Series	Digi-Key Part No.	Price Each 1	Price Each 10	Mfg. Part No.
1	MT 1.5	277-1506-ND	1.93	1.74	3100305
2	MTTB 1.5	277-1483-ND	4.73	4.26	1414129
3	MBK 3/E-Z	277-1481-ND	2.35	2.12	1413036
4	MBK 5/E-Z	277-1480-ND	2.26	2.03	1402940
5	UK 1.5 N	277-1504-ND	1.58	1.43	3005837
6	UK 2.5 N	277-1499-ND	1.51	1.37	3003347
7	UK 5 N	277-1501-ND	1.68	1.51	3004362
8	UK 6 N	277-1502-ND	2.15	1.94	3004524
9	UK 10 N	277-1503-ND	2.74	2.47	3005073
10	UKK 5	277-1491-ND	4.28	3.85	2774017
	UKK 5-TG	277-1563-ND	10.52	9.47	3007042

Fig.	Series	Digi-Key Part No.	Price Each 1	Price Each 10	Mfg. Part No.
11	SLKK 5	277-1521-ND	7.99	7.19	0461018
12	DIK 1.5	277-1543-ND	5.12	4.61	2715966
13	DIKD 1.5	277-1544-ND	8.90	8.01	2715979
	DIKD 1.5-TG	277-1564-ND	8.94	8.05	2774237
	DIKD 1.5-2D	277-1565-ND	10.48	9.43	2716512
14	UDK 4	277-1576-ND	3.52	3.17	2775016
	UDK 4-TG	277-1554-ND	3.89	3.51	2777014
15	UK 4-TG	277-1556-ND	3.96	3.57	2812018
16	UK 5-HESI	277-1557-ND	7.56	6.81	3004100
	UK 5-HESILA 250	277-1558-ND	11.69	10.52	3004142

Fig.	Series	Digi-Key Part No.	Price Each 1	Price Each 10	Mfg. Part No.
16	UK 5-HESILED 24	277-1559-ND	11.69	10.52	3004126
17	UKK 5-HESI (5x20)	277-1569-ND	17.96	16.17	3007204
	UKK 5-HESI (6.3x32)	277-1570-ND	18.80	16.92	3007217
	UKK 5-HESILA 250 (5x20)	277-1571-ND	25.99	23.39	0711629
	UKK 5-HESILED 24 (6.3x32)	277-1572-ND	26.06	23.46	0711632
	UKK 5-HESILA 250 (6.3x32)	277-1573-ND	27.09	24.38	0711616
	UKK 5-HESILED 24 (5x20)	277-1574-ND	25.30	22.77	3026654
18	UK 6.3-HESI	277-1560-ND	9.42	8.48	3004171
	UK 6.3-HESILED 24	277-1561-ND	14.58	13.12	3004265
	UK 6.3-HESILA 250	277-1562-ND	14.58	13.12	3004249
19	UK 10.3-HESI	277-1555-ND	15.88	14.30	3004906

Accessories

Marker Strip: **U** = Unprinted **P** = Printed

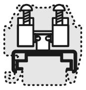
Fig.	Series	Digi-Key Part No.	Grounding Block	End Cover	Spacer Cover	Spacer Plate	Partition Plate	Isolator Bridge Bar	Bridge Bar Isolator	Fixed Bridge	Insertion Bridge	Marker Strip U	Marker Strip P	Marker Pen	Screwdriver	End Bracket	DIN Rail
1	MT 1.5	277-1506-ND	277-1507-ND	277-1508-ND	—	—	—	—	—	277-1494-ND	—	A	B	277-1474-ND	277-1477-ND	277-1485-ND	277-1509-ND
2	MTTB 1.5	277-1483-ND	—	277-1495-ND	277-1496-ND	277-1497-ND	—	—	—	277-1494-ND	—	A	B	277-1474-ND	277-1477-ND	277-1485-ND 277-1523-ND	277-1509-ND 277-1510-ND
3	MBK 3/E-Z	277-1481-ND	277-1482-ND	277-1484-ND	—	—	—	—	—	277-1488-ND	277-1486-ND	D	H, L	277-1474-ND	277-1478-ND	277-1485-ND	277-1509-ND
4	MBK 5/E-Z	277-1480-ND	277-1520-ND	277-1484-ND	—	—	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1485-ND	277-1509-ND
5	UK 1.5 N	277-1504-ND	277-1505-ND	277-1493-ND	—	—	—	—	—	277-1494-ND	—	C	P, Q	277-1474-ND	277-1477-ND	277-1523-ND	277-1510-ND
6	UK 2.5 N	277-1499-ND	277-1517-ND	277-1493-ND	—	—	—	—	—	277-1488-ND	277-1486-ND	D	H, L	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
7	UK 5 N	277-1501-ND	277-1518-ND	277-1498-ND	—	—	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
8	UK 6 N	277-1502-ND	277-1519-ND	277-1498-ND	—	—	—	—	—	277-1515-ND	277-1512-ND	F	J, N	277-1474-ND	277-1479-ND	277-1523-ND	277-1510-ND
9	UK 10 N	277-1503-ND	277-1500-ND	277-1498-ND	—	—	—	—	—	277-1516-ND	277-1513-ND	G	K, O	277-1474-ND	277-1479-ND	277-1523-ND	277-1510-ND
10	UKK 5	277-1491-ND	277-1492-ND	277-1487-ND	277-1490-ND	277-1489-ND	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	—	277-1523-ND	277-1510-ND
	UKK 5-TG	277-1563-ND	—	—	—	—		277-1550-ND	277-1549-ND							—	—
11	SLKK 5	277-1521-ND	—	277-1487-ND	277-1490-ND	277-1489-ND	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
12	DIK 1.5	277-1543-ND	—	—	—	—	277-1540-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
13	DIKD 1.5	277-1544-ND	—	—	—	—	277-1541-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	DIKD 1.5-TG	277-1564-ND	—	—	—	—	277-1541-ND	—	—	—	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	DIKD 1.5-2D	277-1565-ND	—	—	—	—	277-1541-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
14	UDK 4	277-1576-ND	—	—	—	—	—	277-1550-ND	277-1549-ND	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	UDK 4-TG	277-1554-ND		277-1545-ND				—	—	—							
15	UK 4-TG	277-1556-ND	—	277-1498-ND	—	—	277-1542-ND	—	—	—	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
16	UK 5-HESI	277-1557-ND	—	—	—	—	—	—	—	—	277-1548-ND	F	J, N	277-1474-ND	277-1478-ND	—	—
	UK 5-HESILA 250	277-1558-ND															
	UK 5-HESILED 24	277-1559-ND															
17	UKK 5-HESI (5x20)	277-1569-ND	—	—	—	—	—	—	—	277-1568-ND	—	F	J, N	277-1474-ND	277-1478-ND	—	—
	UKK 5-HESI (6.3x32)	277-1570-ND															
	UKK 5-HESILA 250 (5x20)	277-1571-ND															
	UKK 5-HESILED 24 (6.3x32)	277-1572-ND															
	UKK 5-HESILA 250 (6.3x32)	277-1573-ND															
	UKK 5-HESILED 24 (5x20)	277-1574-ND															
18	UK 6.3-HESI	277-1560-ND	—	—	—	—	—	—	—	—	277-1513-ND	G	K, O	277-1474-ND	277-1479-ND	—	—
	UK 6.3-HESILED 24	277-1561-ND															
	UK 6.3-HESILA 250	277-1562-ND															
19	UK 10.3-HESI	277-1555-ND	—	—	—	—	—	—	—	—	277-1566-ND 277-1567-ND	G	K, O	277-1474-ND	277-1479-ND	—	—

(Continued)

Accessories *(Cont.)*

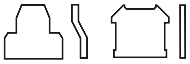
Grounding Block

Grounds connected wires to DIN rail



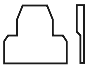
End Cover

Covers open end of terminal block


2 level
1 level

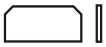
Spacer Cover

Covers open end of 2 level terminal block and compensates for level offset



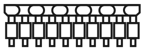
Spacer Plate

Compensates for level offset on closed end of 2 level terminal block



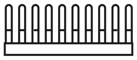
Fixed Bridge

For cross connections between terminal blocks in terminal center bridging cavity, 10 position, divisible



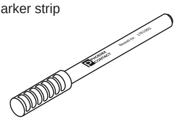
Insertion Bridge

For cross connections between terminal blocks in wire entry cavity, 10 position, divisible



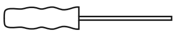
Marker Pen

To label the unprinted marker strip



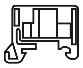
Screwdriver

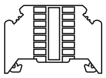
Fully insulated blade shaft, straight blade design



End Bracket

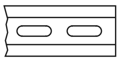
Clamps terminal blocks into place on DIN rail

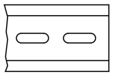

For 15mm wide DIN rail


For 35mm wide DIN rail

DIN Rail

With elongated mounting holes

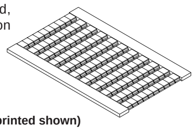

15mm wide
5.5mm deep
1 meter long


35mm wide
7.5mm deep
1 meter long

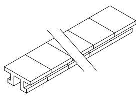
Marker Strip

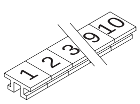
Unprinted or printed, will mark termination points

ZBFM Type


(Unprinted shown)

ZB Type


Unprinted

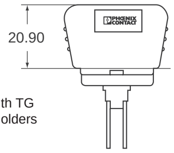


Printed

Fuse Plug

Fuse Plug for cartridge fuse inserts 5x20mm, color: black, with LED/light indicator

Use With TG Fuse Holders

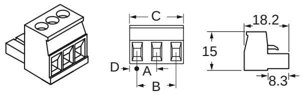


Description, Width	Digi-Key Part No.	Price Each 1	10	100	Phoenix-Contact Part No.
Grounding Blocks					
MT 1.5-PE, 4.2mm	277-1507-ND	6.06	5.46	4.86	3100318
MBK 3/E-Z-PE, 5.2mm	277-1482-ND	5.45	4.91	4.36	1413117
MBK 5/E-Z-PE, 6.2mm	277-1520-ND	5.87	5.29	4.70	0452043
USLKG 1.5 N, 4.2mm	277-1505-ND	12.13	10.92	9.71	3005853
USLKG 2.5 N, 5.2mm	277-1517-ND	6.12	5.51	4.90	0441119
USLKG 5, 6.2mm	277-1518-ND	6.02	5.42	4.82	0441504
USLKG 6 N, 8.2mm	277-1519-ND	6.59	5.93	5.27	0442079
USLKG 10 N, 10.2mm	277-1500-ND	7.18	6.46	5.75	3003923
UKK 5-PE, 6.2mm	277-1492-ND	13.45	12.11	10.76	2774211
End Covers					
D-MT 1.5	277-1508-ND	.54	.49	.43	3100321
D-MTTB 1.5	277-1495-ND	.84	.76	.68	3002665
D-MBK/E	277-1484-ND	.65	.59	.52	1415021
D-UK 2.5	277-1493-ND	.87	.78	.70	3001022
D-UK 4/10	277-1498-ND	.89	.81	.72	3003020
D-UKK 3/5	277-1487-ND	1.33	1.20	1.07	2770024
D-UDK RELG	277-1545-ND	1.04	.94	.83	2777027
D-UDK 4	277-1577-ND	1.22	1.11	.98	2775113
Spacer Covers					
DG-MTTB 1.5, 2mm	277-1496-ND	1.00	.91	.81	3002678
DG-UKK 3/5, 2.5mm	277-1490-ND	1.46	1.32	1.17	2770817
Spacer Plates					
DP-MTTB 1.5, 2mm	277-1497-ND	.95	.86	.76	3002681
DP-UKK 3/5, 2.5mm	277-1489-ND	.98	.88	.79	2770794
Fixed Bridge					
FBRN 10-4 N	277-1494-ND	5.64	5.08	4.51	3001624
FBRI 10-5 N	277-1488-ND	7.78	7.01	6.23	2770642
FBRI 10-8 N	277-1568-ND	8.25	7.43	6.60	2772080
FBI 10-6	277-1514-ND	6.64	5.98	5.32	0203250
FBI 10-8	277-1515-ND	7.76	6.98	6.21	0203263
FBI 10-10	277-1516-ND	10.05	9.05	8.05	0203276
Partition Plate					
2mm for DIK	277-1540-ND	1.31	1.18	1.05	1413272
2mm for DIKD	277-1541-ND	1.46	1.32	1.17	1413285
1.5mm for UK	277-1542-ND	1.02	.92	.82	3003224
Isolator Bridge Bar					
Use with 1302338	277-1550-ND	5.17	4.66	4.14	0301505
Bridge Bar Isolator					
Use with 0301505	277-1549-ND	.41	.38	.33	1302338
Insertion Bridge					
EBL 10-5	277-1486-ND	2.31	2.08	1.85	2303132
EB 10-6	277-1511-ND	3.70	3.33	2.96	0201139
EB 10-8	277-1512-ND	4.58	4.13	3.67	0202138
EBS 10-8	277-1548-ND	4.58	4.13	3.67	3118135
EB 10-10	277-1513-ND	6.15	5.54	4.92	0203137
EB 56-18	277-1566-ND	54.07	48.66	43.26	3009299
EB 56-18/L1-L2-L3	277-1567-ND	155.38	139.84	124.30	3009367
EB 80-DIK BU	277-1546-ND	41.84	37.66	33.48	2715940
EB 80-DIK RD	277-1547-ND	41.84	37.66	33.48	2715953
Marker Pen					
M-PEN, black	277-1474-ND	12.73	11.46	10.19	1051993
Screwdrivers					
SZS 0.4 x 2.5	277-1477-ND	13.33	12.00	10.66	1205037
SZS 0.6 x 3.5	277-1478-ND	13.33	12.00	10.66	1205053
SZS 1.0 x 4.0	277-1479-ND	20.17	18.15	16.14	1205066
End Brackets					
E/MK 1, 6mm	277-1485-ND	.84	.76	.68	1421659
E/NS 35 N, 9.5mm	277-1523-ND	1.25	1.13	1.01	0800886
DIN Rail					
NS 15 PERF 1 METER	277-1509-ND	8.13	7.32	6.50	5602099
NS 35/7.5 PERF 1 METER	277-1510-ND	9.75	8.78	7.80	5602100
Fuse Plugs					
ST-SILA 250-UK 4	277-1551-ND	9.90	8.91	7.92	0921053
ST-SILED 24-UK 4	277-1552-ND	13.50	12.16	10.81	0921037
ST-SI-UK 4	277-1553-ND	3.63	3.27	2.91	0921011

Style	Description	Digi-Key Part No.	Price Each 1	10	100	Phoenix-Contact Part No.
Marker Strips						
A	ZBFM 4/WH: UNPRINTED — Unprinted, will Mark 100 Termination Points	277-1524-ND	8.59	7.74	6.88	0803579
B	ZBFM 4/WH: LGS: 1-100 — Preprinted 1-100, will Mark 100 Termination Points	277-1522-ND	12.05	10.85	9.64	0800268
A	ZBFM 8/WH: UNPRINTED	277-1575-ND	8.59	7.74	6.88	0800734
C	ZB 4: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1525-ND	1.42	1.28	1.14	0805001
D	ZB 5: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1472-ND	.92	.83	.74	1050004
E	ZB 6: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1473-ND	.92	.83	.74	1051003
F	ZB 8: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1475-ND	.92	.83	.74	1052002
G	ZB 10: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1476-ND	1.42	1.28	1.14	1053001
H	ZB 5, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1528-ND	1.28	1.16	1.03	1050017:0001
I	ZB 6, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1530-ND	1.28	1.16	1.03	1051016:0001
J	ZB 8, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1532-ND	1.97	1.77	1.58	1052015:0001
K	ZB 10, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1534-ND	1.97	1.77	1.58	1053014:0001
L	ZB 5, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1529-ND	1.28	1.16	1.03	1050017:0011
M	ZB 6, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1531-ND	1.28	1.16	1.03	1051016:0011
N	ZB 8, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1533-ND	1.97	1.77	1.58	1052015:0011
O	ZB 10, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1535-ND	1.97	1.77	1.58	1053014:0011
P	ZB 4, QR: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1526-ND	1.97	1.77	1.58	0805807:0001
Q	ZB 4, QR: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1527-ND	1.97	1.77	1.58	0805807:0011

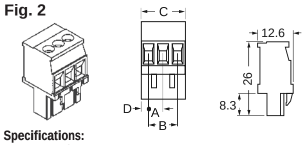
Terminal Blocks — PCB Plugs and Headers

Fig. 1



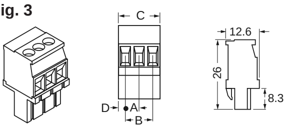
Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 2



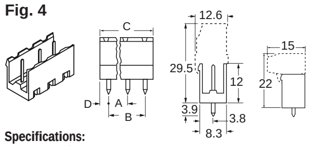
Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 3



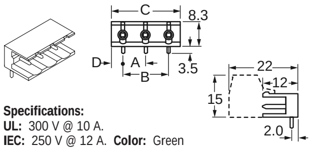
Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 4



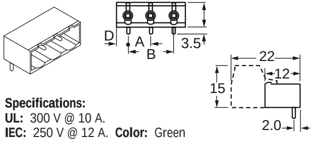
Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 5



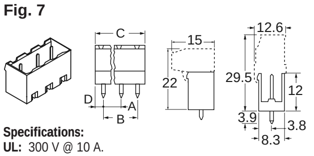
Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 6



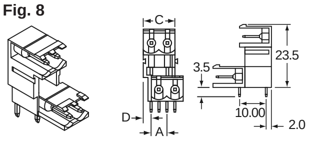
Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 7



Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 8



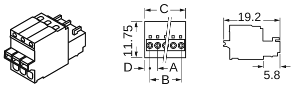
Specifications:
UL: 300 V @ 10 A. **IEC:** 250 V @ 10 A. **Color:** Green

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 1 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1000-ND	1.38	1.24	1.11	MSTB 2.5/2-ST	1754449
3	5.0	10	15	2.5	277-1001-ND	2.07	1.86	1.66	MSTB 2.5/3-ST	1754465
4	5.0	15	20	2.5	277-1002-ND	2.76	2.48	2.21	MSTB 2.5/4-ST	1754481
5	5.0	20	25	2.5	277-1003-ND	3.42	3.08	2.74	MSTB 2.5/5-ST	1754504
6	5.0	25	30	2.5	277-1004-ND	4.11	3.70	3.29	MSTB 2.5/6-ST	1754520
7	5.0	30	35	2.5	277-1005-ND	4.81	4.33	3.85	MSTB 2.5/7-ST	1754546
8	5.0	35	40	2.5	277-1006-ND	5.46	4.92	4.37	MSTB 2.5/8-ST	1754562
9	5.0	40	45	2.5	277-1007-ND	6.18	5.56	4.94	MSTB 2.5/9-ST	1754588
10	5.0	45	50	2.5	277-1008-ND	6.86	6.18	5.50	MSTB 2.5/10-ST	1754601
11	5.0	50	55	2.5	277-1009-ND	7.53	6.78	6.03	MSTB 2.5/11-ST	1754627
12	5.0	55	60	2.5	277-1010-ND	8.22	7.40	6.58	MSTB 2.5/12-ST	1754643
Fig. 1 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1011-ND	1.38	1.24	1.11	MSTB 2.5/2-ST-5.08	1757019
3	5.08	10.16	15.24	2.54	277-1012-ND	2.07	1.86	1.66	MSTB 2.5/3-ST-5.08	1757022
4	5.08	15.24	20.32	2.54	277-1013-ND	2.76	2.48	2.21	MSTB 2.5/4-ST-5.08	1757035
5	5.08	20.32	25.40	2.54	277-1014-ND	3.42	3.08	2.74	MSTB 2.5/5-ST-5.08	1757048
6	5.08	25.40	30.48	2.54	277-1015-ND	4.11	3.70	3.29	MSTB 2.5/6-ST-5.08	1757051
7	5.08	30.48	35.56	2.54	277-1016-ND	4.81	4.33	3.85	MSTB 2.5/7-ST-5.08	1757064
8	5.08	35.56	40.64	2.54	277-1017-ND	5.46	4.92	4.37	MSTB 2.5/8-ST-5.08	1757077
9	5.08	40.64	45.72	2.54	277-1018-ND	6.18	5.56	4.94	MSTB 2.5/9-ST-5.08	1757080
10	5.08	45.72	50.80	2.54	277-1019-ND	6.86	6.18	5.50	MSTB 2.5/10-ST-5.08	1757093
11	5.08	50.80	55.88	2.54	277-1020-ND	7.53	6.78	6.03	MSTB 2.5/11-ST-5.08	1757103
12	5.08	55.88	60.96	2.54	277-1021-ND	8.22	7.40	6.58	MSTB 2.5/12-ST-5.08	1757116
Fig. 2 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1029-ND	1.59	1.43	1.27	MVSTBR 2.5/2-ST	1792016
3	5.0	10	15	2.5	277-1030-ND	2.34	2.11	1.88	MVSTBR 2.5/3-ST	1792029
4	5.0	15	20	2.5	277-1031-ND	3.16	2.85	2.53	MVSTBR 2.5/4-ST	1792032
5	5.0	20	25	2.5	277-1032-ND	3.95	3.56	3.17	MVSTBR 2.5/5-ST	1792045
6	5.0	25	30	2.5	277-1033-ND	4.75	4.28	3.80	MVSTBR 2.5/6-ST	1792058
7	5.0	30	35	2.5	277-1034-ND	5.54	4.99	4.44	MVSTBR 2.5/7-ST	1792061
8	5.0	35	40	2.5	277-1035-ND	6.31	5.68	5.05	MVSTBR 2.5/8-ST	1792074
9	5.0	40	45	2.5	277-1036-ND	7.11	6.40	5.69	MVSTBR 2.5/9-ST	1792087
10	5.0	45	50	2.5	277-1037-ND	7.88	7.09	6.31	MVSTBR 2.5/10-ST	1792090
11	5.0	50	55	2.5	277-1038-ND	8.68	7.82	6.95	MVSTBR 2.5/11-ST	1792100
12	5.0	55	60	2.5	277-1039-ND	9.46	8.52	7.58	MVSTBR 2.5/12-ST	1792113
Fig. 2 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1040-ND	1.59	1.43	1.27	MVSTBR 2.5/2-ST-5.08	1792249
3	5.08	10.16	15.24	2.54	277-1041-ND	2.34	2.11	1.88	MVSTBR 2.5/3-ST-5.08	1792252
4	5.08	15.24	20.32	2.54	277-1042-ND	3.16	2.85	2.53	MVSTBR 2.5/4-ST-5.08	1792265
5	5.08	20.32	25.40	2.54	277-1043-ND	3.95	3.56	3.17	MVSTBR 2.5/5-ST-5.08	1792278
6	5.08	25.40	30.48	2.54	277-1044-ND	4.75	4.28	3.80	MVSTBR 2.5/6-ST-5.08	1792281
7	5.08	30.48	35.56	2.54	277-1045-ND	5.54	4.99	4.44	MVSTBR 2.5/7-ST-5.08	1792294
8	5.08	35.56	40.64	2.54	277-1046-ND	6.31	5.68	5.05	MVSTBR 2.5/8-ST-5.08	1792304
9	5.08	40.64	45.72	2.54	277-1047-ND	7.11	6.40	5.69	MVSTBR 2.5/9-ST-5.08	1792317
10	5.08	45.72	50.80	2.54	277-1048-ND	7.88	7.09	6.31	MVSTBR 2.5/10-ST-5.08	1792320
11	5.08	50.80	55.88	2.54	277-1049-ND	8.68	7.82	6.95	MVSTBR 2.5/11-ST-5.08	1792333
12	5.08	55.88	60.96	2.54	277-1050-ND	9.46	8.52	7.58	MVSTBR 2.5/12-ST-5.08	1792346
Fig. 3 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1051-ND	1.59	1.43	1.27	MVSTBW 2.5/2-ST	1792524
3	5.0	10	15	2.5	277-1052-ND	2.34	2.11	1.88	MVSTBW 2.5/3-ST	1792537
4	5.0	15	20	2.5	277-1053-ND	3.16	2.85	2.53	MVSTBW 2.5/4-ST	1792540
5	5.0	20	25	2.5	277-1054-ND	3.95	3.56	3.17	MVSTBW 2.5/5-ST	1792553
6	5.0	25	30	2.5	277-1055-ND	4.75	4.28	3.80	MVSTBW 2.5/6-ST	1792566
7	5.0	30	35	2.5	277-1056-ND	5.54	4.99	4.44	MVSTBW 2.5/7-ST	1792579
8	5.0	35	40	2.5	277-1057-ND	6.31	5.68	5.05	MVSTBW 2.5/8-ST	1792582
9	5.0	40	45	2.5	277-1058-ND	7.11	6.40	5.69	MVSTBW 2.5/9-ST	1792595
10	5.0	45	50	2.5	277-1059-ND	7.88	7.09	6.31	MVSTBW 2.5/10-ST	1792605
11	5.0	50	55	2.5	277-1060-ND	8.68	7.82	6.95	MVSTBW 2.5/11-ST	1792618
12	5.0	55	60	2.5	277-1061-ND	9.46	8.52	7.58	MVSTBW 2.5/12-ST	1792621
Fig. 3 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1062-ND	1.59	1.43	1.27	MVSTBW 2.5/2-ST-5.08	1792757
3	5.08	10.16	15.24	2.54	277-1063-ND	2.34	2.11	1.88	MVSTBW 2.5/3-ST-5.08	1792760
4	5.08	15.24	20.32	2.54	277-1064-ND	3.16	2.85	2.53	MVSTBW 2.5/4-ST-5.08	1792773
5	5.08	20.32	25.40	2.54	277-1065-ND	3.95	3.56	3.17	MVSTBW 2.5/5-ST-5.08	1792786
6	5.08	25.40	30.48	2.54	277-1066-ND	4.75	4.28	3.80	MVSTBW 2.5/6-ST-5.08	1792799
7	5.08	30.48	35.56	2.54	277-1067-ND	5.54	4.99	4.44	MVSTBW 2.5/7-ST-5.08	1792809
8	5.08	35.56	40.64	2.54	277-1068-ND	6.31	5.68	5.05	MVSTBW 2.5/8-ST-5.08	1792812
9	5.08	40.64	45.72	2.54	277-1069-ND	7.11	6.40	5.69	MVSTBW 2.5/9-ST-5.08	1792825
10	5.08	45.72	50.80	2.54	277-1070-ND	7.88	7.09	6.31	MVSTBW 2.5/10-ST-5.08	1792838
11	5.08	50.80	55.88	2.54	277-1071-ND	8.68	7.82	6.95	MVSTBW 2.5/11-ST-5.08	1792841
12	5.08	55.88	60.96	2.54	277-1072-ND	9.46	8.52	7.58	MVSTBW 2.5/12-ST-5.08	1792854
Fig. 4 — 5mm Connector Header — Vertical										
2	5.0	5	10	2.5	277-1073-ND	.48	.44	.39	MSTBV 2.5/2-G	1753437
3	5.0	10	15	2.5	277-1074-ND	.72	.65	.58	MSTBV 2.5/3-G	1753453
4	5.0	15	20	2.5	277-1075-ND	.96	.87	.77	MSTBV 2.5/4-G	1753479
5	5.0	20	25	2.5	277-1076-ND	1.20	1.08	.96	MSTBV 2.5/5-G	1753495
6	5.0	25	30	2.5	277-1077-ND	1.43	1.29	1.15	MSTBV 2.5/6-G	1753518
7	5.0	30	35	2.5	277-1078-ND	1.66	1.50	1.34	MSTBV 2.5/7-G	1753534
8	5.0	35	40	2.5	277-1079-ND	1.90	1.71	1.52	MSTBV 2.5/8-G	1753550
9	5.0	40	45	2.5	277-1080-ND	2.15	1.94	1.72	MSTBV 2.5/9-G	1753576
10	5.0	45	50	2.5	277-1081-ND	2.38	2.15	1.91	MSTBV 2.5/10-G	1753592
11	5.0	50	55	2.5	277-1082-ND	2.63	2.37	2.11	MSTBV 2.5/11-G	1753615
12	5.0	55	60	2.5	277-1083-ND	2.86	2.58	2.29	MSTBV 2.5/12-G	1753631
Fig. 4 — 5.08mm Connector Header — Vertical										
2	5.08	5.08	10.16	2.54	277-1128-ND	.48	.44	.39	MSTBV 2.5/2-G-5.08	1758018
3	5.08	10.16	15.24	2.54	277-1129-ND	.72	.65	.58	MSTBV 2.5/3-G-5.08	1758021
4	5.08	15.24	20.32	2.54	277-1130-ND	.96	.87	.77	MSTBV 2.5/4-G-5.08	1758034
5	5.08	20.32	25.40	2.54	277-1131-ND	1.20	1.08	.96	MSTBV 2.5/5-G-5.08	1758047
6	5.08	25.40	30.48	2.54	277-1132-ND	1.43	1.29	1.15	MSTBV 2.5/6-G-5.08	1758050
7	5.08	30.48	35.56	2.54	277-1133-ND	1.66	1.50	1.34	MSTBV 2.5/7-G-5.08	1758063
8	5.08	35.56	40.64	2.54	277-1134-ND	1.90	1.71	1.52	MSTBV 2.5/8-G-5.08	1758076
9	5.08	40.64	45.72	2.54	277-1135-ND	2.15	1.94	1.72	MSTBV 2.5/9-G-5.08	1758089
10	5.08	45.72	50.80	2.54	277-1136-ND	2.38	2.15	1.91	MSTBV 2.5/10-G-5.08	1758092
11	5.08	50.80	55.88	2.54	277-1137-ND	2.63	2.37	2.11	MSTBV 2.5/11-G-5.08	1758102
12	5.08	55.88	60.96	2.54	277-1138-ND	2.86	2.58	2.29	MSTBV 2.5/12-G-5.08	1758115
Fig. 5 — 5mm Connector Header — Right Angle										
2	5.0	5	10	2.5	277-1084-ND	.48	.44	.39	MSTB 2.5/2-G	1754436
3	5.0	10	15	2.5	277-1085-ND	.72	.65	.58	MSTB 2.5/3-G	1754452
4	5.0	15	20	2.5	277-1086-ND	.96	.87	.77	MSTB 2.5/4-G	1754478
5	5.0	20	25	2.5	277-1087-ND	1.20	1.08	.96	MSTB 2.5/5-G	1754494
6	5.0	25	30	2.5	277-1088-ND	1.43	1.29	1.15	MSTB 2.5/6-G	1754517
7	5.0	30	35	2.5	277-1089-ND	1.66	1.50	1.34	MSTB 2.5/7-G	1754533
8	5.0	35	40	2.5	277-1090-ND	1.90	1.71	1.52	MSTB 2.5/8-G	1754559
9	5.0	40	45	2.5	277-1091-ND	2.15	1.94	1.72	MSTB 2.5/9-G	1754575
10	5.0	45	50	2.5	277-1092-ND	2.38	2.15	1.91	MSTB 2.5/10-G	1754591
11	5.0	50	55	2.5	277-1093-ND	2.63	2.37	2.11	MSTB 2.5/11-G	1754614
12	5.0	55	60	2.5	277-1094-ND	2.86	2.58	2.29	MSTB 2.5/12-G	1754630
Fig. 5 — 5.08mm Connector Header — Right Angle										
2	5.08	5.08	10.16	2.54	277-1095-ND	.48	.44	.39	MSTB 2.5/2-G-5.08	1759017
3	5.08	10.16	15.24	2.54	277-1096-ND	.72	.65	.58	MSTB 2.5/3-G-5.08	1759020
4	5.08	15.24	20.32	2.54	277-1097-ND	.96	.87	.77	MSTB 2.5/4-G-5.08	1759033
5	5.08	20.32	25.40	2.54	277-1098-ND	1.20	1.08	.96	MSTB 2.5/5-G-5.08	1759046
6	5.08	25.40	30.48	2.54	277-1099-ND	1.43	1.29	1.15	MSTB 2.5/6-G-5.08	1759059
7	5.08	30.48	35.56	2.54	277-1100-ND	1.66	1.50	1.34	MSTB 2.5/7-G-5.08	1759062
8	5.08	35.56	40.64	2.54	277-1101-ND	1.90	1.71	1.52	MSTB 2.5/8-G-5.08	1759075
9	5.08	40.64	45.72	2.54	277-1102-ND	2.15	1.94	1.72	MSTB 2.5/9-G-5.08	1759088
10	5.08	45.72	50.80	2.54	277-1103-ND	2.38	2.15	1.91	MSTB 2.5/10-G-5.08	1759091
11	5.08	50.80	55.88	2.54	277-1104-ND	2.63	2.37	2.11	MSTB 2.5/11-G-5.08	1759101
12	5.08	55.88	60.96	2.54	277-1105-ND	2.86	2.58	2.29	MSTB 2.5/12-G-5.08	1759114
Fig. 6 — 5mm Connector Header — Right Angle										
2	5.0	5	12	3.5	277-1117-ND	.48	.44	.39	MSTBA 2.5/2-G	1757475
3	5.0	10	17	3.5	277-1118-ND	.72	.65	.58	MSTBA 2.5/3-G	1757488
4	5.0	15	22	3.5	277-1119-ND	.96	.87	.77	MSTBA 2.5/4-G	1757491
5	5.0	20	27	3.5	277-1120-ND	1.20	1.08	.96	MSTBA 2.5/5-G	1757501
6	5.0	25	32	3.5	277-1121-ND	1.43	1.29	1.15	MSTBA 2.5/6-G	1757514
7	5.0	30	37	3.5	277-1122-ND	1.66	1.50	1.34	MSTBA 2.5/7-G	1755493
8	5.0	35	42	3.5	277-1123-ND	1.90	1.71	1.52	MSTBA 2.5/8-G	1757527
9	5.0	40	47	3.5	277-1124-ND	2.15	1.94	1.72	MSTBA 2.5/9-G	1757530
10	5.0	45	52	3.5	277-1125-ND	2.38	2.15	1.91	MSTBA 2.5/10-G	1757543
11	5.0	50	57	3.5	277-1126-ND	2.63	2.37	2.11	MSTBA 2.5/11-G	1757556
12	5.0	55	62	3.5	277-1127-ND	2.86	2.58	2.29	MSTBA 2.5/12-G	1757569
Fig. 6 — 5.08mm Connector Header — Right Angle										
2	5.08	5.08	12.16	3.54	277-1106-ND	.48	.44	.39	MSTBA 2.5/2-G-5.08	1757242
3	5.08	10.16	17.24	3.54	277-1107-ND	.72	.65	.58	MSTBA 2.5/3-G-5.08	1757255
4	5.08	15.24	22.32	3.54	277-1108-ND	.96	.87	.77	MSTBA 2.5/4-G-5.08	1757268
5	5.08	20.32	27.40	3.54	277-1109-ND	1.20	1.08	.96	MSTBA 2.5/5-G-5.08	1757271
6	5.08	25.40	32.48	3.54	277-1110-ND	1.43	1.29	1.15	MSTBA 2.5/6-G-5.08	1757284
7	5.08	30.48	37.56	3.54	277-1111-ND	1.66	1.50	1.34	MSTBA 2.5/7-G-5.08	1757297
8	5.08	35.56	42.64	3.54	277-1112-ND	1.90	1.71	1.52	MSTBA 2.5/8-G-5.08	1757307
9	5.08	40.64	47.72	3.54	277-1113-ND	2.15	1.94	1.72	MSTBA 2.5/9-G-5.08	1757310
10	5.08	45.72	52.80	3.54	277-1114-ND	2.38	2.15	1.91	MSTBA 2.5/10-G-5.08	1757323
11	5.08	50.80	57.88	3.54	277-1115-ND	2.63	2.37	2.11	MSTBA 2.5/11-G-5.08	1757336
12	5.08	55.88	62.96	3.54	277-1116-ND	2.86	2.58	2.29	MSTBA 2.5/12-G-5.08	1757349
Fig. 7 — 5mm Connector Header — Vertical										
2	5.0	5	12	3.5	277-1140-ND	.48	.44	.39	MSTBVA 2.5/2-G	1755516
3	5.0	10	17	3.5	277-1141-ND	.72	.65	.58	MSTBVA 2.5/3-G	1755529
4	5.0	15	22	3.5	277-1142-ND	.96	.87	.77	MSTBVA 2.5/4-G	1755532
5	5.0	20	27	3.5	277-1143-ND	1.20	1.08	.96	MSTBVA 2.5/5-G	1755545
6	5.0	25	32	3.5	277-1144-ND	1.43	1.29	1.15	MSTBVA 2.5/6-G	1755558
7	5.0	30	37	3.5	277-1145-ND	1.66	1.50	1.34	MSTBVA 2.5/7-G	1755561
8	5.0	35	42	3.5	277-1146-ND	1.90	1.71	1.52	MSTBVA 2.5/8-G	1755574
9	5.0	40	47	3.5	277-1147-ND	2.15	1.94	1.72	MSTBVA 2.5/9-G	1755587
10	5.0	45	52	3.5	277-1139-ND	2.38	2.15	1.91	MSTBVA 2.5/10-G	1755503
11	5.0	50	57	3.5	277-1148-ND	2.63	2.37	2.11	MSTBVA 2.5/11-G	1755590
12	5.0	55	62	3.5	277-1149-ND	2.86	2.58	2.29	MSTBVA 2.5/12-G	1755600

(Continued)

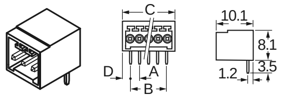
Terminal Blocks — PCB Plugs and Headers *(Cont.)*

Fig. 9



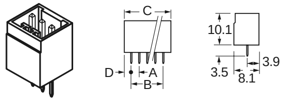
Specifications:
UL: 125 V @ 4 A, 20-28 AWG.
IEC: 100 V @ 4 A, 20-28 AWG. **Color:** Green

Fig. 10



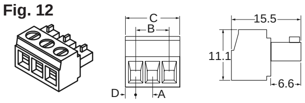
Specifications:
UL: 125 V @ 4 A. **IEC:** 80 V @ 4 A. **Color:** Green

Fig. 11



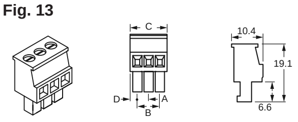
Specifications:
UL: 125 V @ 4 A. **IEC:** 80 V @ 4 A. **Color:** Green

Fig. 12



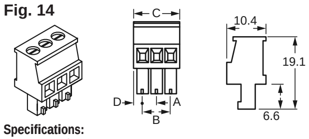
Specifications:
UL: 300 V @ 8 A. 14-30 AWG.
IEC: 125 V @ 8 A. 16-28 AWG. **Color:** Green

Fig. 13



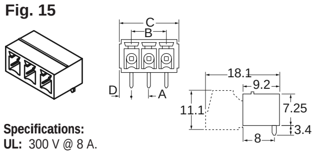
Specifications:
UL: 300 V @ 8 A. 14-30 AWG.
IEC: 125 V @ 8 A. 16-28 AWG. **Color:** Green

Fig. 14



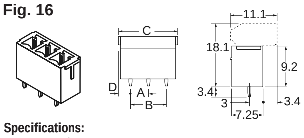
Specifications:
UL: 300 V @ 8 A. 14-30 AWG.
IEC: 125 V @ 8 A. 16-28 AWG. **Color:** Green

Fig. 15



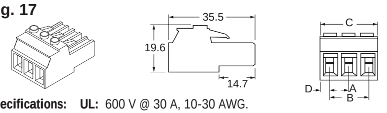
Specifications:
UL: 300 V @ 8 A.
IEC: 125 V @ 8 A. **Color:** Green

Fig. 16



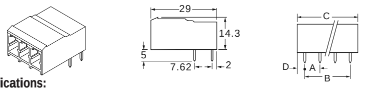
Specifications:
UL: 300 V @ 8 A.
IEC: 125 V @ 8 A. **Color:** Green

Fig. 17



Specifications: **UL:** 600 V @ 30 A, 10-30 AWG.
IEC: 800 V @ 20 A, 10-24 AWG. **Color:** Green

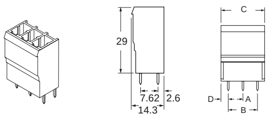
Fig. 18



Specifications:
UL: 600 V @ 30 A. **IEC:** 400 V @ 20 A. **Color:** Green

Fig. 19

Specifications:
UL: 600 V @ 30 A.
IEC: 400 V @ 20 A.
Color: Green



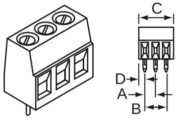
No. of Pos.	Dimensions (mm)				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
Fig. 7 — 5.08mm Connector Header — Vertical										
2	5.08	5.08	12.16	3.54	277-1150-ND	.48	.44	.39	MSTBVA 2.5/2-G-5.08	1755736
3	5.08	10.16	17.24	3.54	277-1151-ND	.72	.65	.58	MSTBVA 2.5/3-G-5.08	1755749
4	5.08	15.24	22.32	3.54	277-1152-ND	.96	.87	.77	MSTBVA 2.5/4-G-5.08	1755752
5	5.08	20.32	27.40	3.54	277-1153-ND	1.20	1.08	.96	MSTBVA 2.5/5-G-5.08	1755765
6	5.08	25.40	32.48	3.54	277-1154-ND	1.43	1.29	1.15	MSTBVA 2.5/6-G-5.08	1755778
7	5.08	30.48	37.56	3.54	277-1155-ND	1.66	1.50	1.34	MSTBVA 2.5/7-G-5.08	1755781
8	5.08	35.56	42.64	3.54	277-1156-ND	1.90	1.71	1.52	MSTBVA 2.5/8-G-5.08	1755794
9	5.08	40.64	47.72	3.54	277-1157-ND	2.15	1.94	1.72	MSTBVA 2.5/9-G-5.08	1755804
10	5.08	45.72	52.80	3.54	277-1158-ND	2.38	2.15	1.91	MSTBVA 2.5/10-G-5.08	1755817
11	5.08	50.80	57.88	3.54	277-1159-ND	2.63	2.37	2.11	MSTBVA 2.5/11-G-5.08	1755820
12	5.08	55.88	62.96	3.54	277-1160-ND	2.86	2.58	2.29	MSTBVA 2.5/12-G-5.08	1755833
Fig. 8 — 5.0mm & 5.08mm Double Level PCB Header without Side Panels										
2	5.00	—	10.00	2.50	277-1379-ND	1.74	1.57	1.40	MDSTB 2.5/2-G	1762046
3	5.00	—	15.00	2.50	277-1380-ND	2.50	2.25	2.00	MDSTB 2.5/3-G	1762059
2	5.08	—	10.16	2.54	277-1381-ND	1.74	1.57	1.40	MDSTB 2.5/2-G-5.08	1762062
3	5.08	—	15.24	2.54	277-1382-ND	2.50	2.25	2.00	MDSTB 2.5/3-G-5.08	1762075
Fig. 9 — 2.5mm Spring Cage Terminal Block Plug										
2	2.5	2.5	5.6	1.55	277-1430-ND	2.56	2.31	2.05	FK-MC 0.5/2-ST-2.5	1881325
3	2.5	5.0	8.1	1.55	277-1431-ND	3.46	3.12	2.77	FK-MC 0.5/3-ST-2.5	1881338
4	2.5	7.5	10.6	1.55	277-1432-ND	4.37	3.94	3.50	FK-MC 0.5/4-ST-2.5	1881341
5	2.5	10.0	13.1	1.55	277-1433-ND	5.23	4.71	4.19	FK-MC 0.5/5-ST-2.5	1881354
6	2.5	12.5	15.6	1.55	277-1434-ND	6.15	5.54	4.92	FK-MC 0.5/6-ST-2.5	1881367
7	2.5	15.0	18.1	1.55	277-1435-ND	7.03	6.33	5.63	FK-MC 0.5/7-ST-2.5	1881370
8	2.5	17.5	20.6	1.55	277-1436-ND	7.98	7.19	6.39	FK-MC 0.5/8-ST-2.5	1881383
9	2.5	20.0	23.1	1.55	277-1437-ND	8.84	7.96	7.08	FK-MC 0.5/9-ST-2.5	1881396
10	2.5	22.5	25.6	1.55	277-1438-ND	9.76	8.79	7.82	FK-MC 0.5/10-ST-2.5	1881406
11	2.5	25.0	28.1	1.55	277-1439-ND	10.62	9.56	8.50	FK-MC 0.5/11-ST-2.5	1881419
12	2.5	27.5	30.6	1.55	277-1440-ND	11.56	10.41	9.25	FK-MC 0.5/12-ST-2.5	1881422
Fig. 10 — 2.5mm Connector Header - Right Angle										
2	2.5	2.5	6.9	2.2	277-1441-ND	.61	.55	.49	MC 0.5/2-G-2.5	1881448
3	2.5	5.0	9.4	2.2	277-1442-ND	.87	.79	.70	MC 0.5/3-G-2.5	1881451
4	2.5	7.5	11.9	2.2	277-1443-ND	1.14	1.03	.92	MC 0.5/4-G-2.5	1881464
5	2.5	10.0	14.4	2.2	277-1444-ND	1.42	1.28	1.14	MC 0.5/5-G-2.5	1881477
6	2.5	12.5	16.9	2.2	277-1445-ND	1.68	1.51	1.35	MC 0.5/6-G-2.5	1881480
7	2.5	15.0	19.4	2.2	277-1446-ND	1.94	1.75	1.55	MC 0.5/7-G-2.5	1881493
8	2.5	17.5	21.9	2.2	277-1447-ND	2.21	1.99	1.77	MC 0.5/8-G-2.5	1881503
9	2.5	20.0	24.4	2.2	277-1448-ND	2.47	2.23	1.98	MC 0.5/9-G-2.5	1881516
10	2.5	22.5	26.9	2.2	277-1449-ND	2.76	2.48	2.21	MC 0.5/10-G-2.5	1881529
11	2.5	25.0	29.4	2.2	277-1450-ND	3.00	2.71	2.41	MC 0.5/11-G-2.5	1881532
12	2.5	27.5	31.9	2.2	277-1451-ND	3.28	2.95	2.63	MC 0.5/12-G-2.5	1881545
Fig. 11 — 2.5mm Connector Header - Vertical										
2	2.5	2.5	6.9	2.2	277-1452-ND	.61	.55	.49	MCV 0.5/2-G-2.5	1881558
3	2.5	5.0	9.4	2.2	277-1453-ND	.87	.79	.70	MCV 0.5/3-G-2.5	1881561
4	2.5	7.5	11.9	2.2	277-1454-ND	1.14	1.03	.92	MCV 0.5/4-G-2.5	1881574
5	2.5	10.0	14.4	2.2	277-1455-ND	1.42	1.28	1.14	MCV 0.5/5-G-2.5	1881587
6	2.5	12.5	16.9	2.2	277-1456-ND	1.68	1.51	1.35	MCV 0.5/6-G-2.5	1881590
7	2.5	15.0	19.4	2.2	277-1457-ND	1.94	1.75	1.55	MCV 0.5/7-G-2.5	1881600
8	2.5	17.5	21.9	2.2	277-1458-ND	2.21	1.99	1.77	MCV 0.5/8-G-2.5	1881613
9	2.5	20.0	24.4	2.2	277-1459-ND	2.47	2.23	1.98	MCV 0.5/9-G-2.5	1881626
10	2.5	22.5	26.9	2.2	277-1460-ND	2.76	2.48	2.21	MCV 0.5/10-G-2.5	1881639
11	2.5	25.0	29.4	2.2	277-1461-ND	3.00	2.71	2.41	MCV 0.5/11-G-2.5	1881642
12	2.5	27.5	31.9	2.2	277-1462-ND	3.28	2.95	2.63	MCV 0.5/12-G-2.5	1881655
Fig. 12 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1161-ND	1.63	1.47	1.30	MC 1.5/2-ST-3.81	1803578
3	3.81	7.62	12.22	2.3	277-1162-ND	2.41	2.17	1.93	MC 1.5/3-ST-3.81	1803581
4	3.81	11.43	16.03	2.3	277-1163-ND	3.20	2.88	2.56	MC 1.5/4-ST-3.81	1803594
5	3.81	15.24	19.84	2.3	277-1164-ND	4.04	3.64	3.24	MC 1.5/5-ST-3.81	1803604
6	3.81	19.05	23.65	2.3	277-1165-ND	4.82	4.35	3.86	MC 1.5/6-ST-3.81	1803617
7	3.81	22.86	27.46	2.3	277-1166-ND	5.63	5.07	4.51	MC 1.5/7-ST-3.81	1803620
8	3.81	26.67	31.27	2.3	277-1167-ND	6.41	5.77	5.13	MC 1.5/8-ST-3.81	1803633
9	3.81	30.48	35.08	2.3	277-1168-ND	7.23	6.51	5.79	MC 1.5/9-ST-3.81	1803646
10	3.81	34.29	38.89	2.3	277-1169-ND	8.03	7.24	6.43	MC 1.5/10-ST-3.81	1803659
11	3.81	38.10	42.70	2.3	277-1170-ND	8.83	7.95	7.07	MC 1.5/11-ST-3.81	1803662
12	3.81	41.91	46.51	2.3	277-1171-ND	9.62	8.66	7.70	MC 1.5/12-ST-3.81	1803675
13	3.81	45.72	50.32	2.3	277-1172-ND	10.44	9.40	8.36	MC 1.5/13-ST-3.81	1803688
14	3.81	49.53	54.13	2.3	277-1173-ND	11.25	10.13	9.00	MC 1.5/14-ST-3.81	1803691
15	3.81	53.34	57.94	2.3	277-1174-ND	12.04	10.84	9.64	MC 1.5/15-ST-3.81	1803701
16	3.81	57.15	61.75	2.3	277-1175-ND	12.83	11.55	10.27	MC 1.5/16-ST-3.81	1803714
Fig. 13 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1176-ND	1.74	1.57	1.40	MCVW 1.5/2-ST-3.81	1826979
3	3.81	7.62	12.22	2.3	277-1177-ND	2.59	2.33	2.07	MCVW 1.5/3-ST-3.81	1826982
4	3.81	11.43	16.03	2.3	277-1178-ND	3.45	3.11	2.76	MCVW 1.5/4-ST-3.81	1826995
5	3.81	15.24	19.84	2.3	277-1179-ND	4.33	3.90	3.47	MCVW 1.5/5-ST-3.81	1827004
6	3.81	19.05	23.65	2.3	277-1180-ND	5.19	4.67	4.15	MCVW 1.5/6-ST-3.81	1827017
7	3.81	22.86	27.46	2.3	277-1181-ND	6.05	5.45	4.84	MCVW 1.5/7-ST-3.81	1827020
8	3.81	26.67	31.27	2.3	277-1182-ND	6.92	6.23	5.54	MCVW 1.5/8-ST-3.81	1827033
9	3.81	30.48	35.08	2.3	277-1183-ND	7.80	7.02	6.24	MCVW 1.5/9-ST-3.81	1827046
10	3.81	34.29	38.89	2.3	277-1184-ND	8.63	7.77	6.91	MCVW 1.5/10-ST-3.81	1827059
11	3.81	38.10	42.70	2.3	277-1185-ND	9.52	8.57	7.62	MCVW 1.5/11-ST-3.81	1827062
12	3.81	41.91	46.51	2.3	277-1186-ND	10.40	9.36	8.32	MCVW 1.5/12-ST-3.81	1827075
13	3.81	45.72	50.32	2.3	277-1187-ND	11.25	10.13	9.00	MCVW 1.5/13-ST-3.81	1827088
14	3.81	49.53	54.13	2.3	277-1188-ND	12.12	10.91	9.70	MCVW 1.5/14-ST-3.81	1827091
15	3.81	53.34	57.94	2.3	277-1189-ND	12.99	11.69	10.39	MCVW 1.5/15-ST-3.81	1827101
16	3.81	57.15	61.75	2.3	277-1190-ND	13.85	12.47	11.08	MCVW 1.5/16-ST-3.81	1827114
Fig. 14 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1191-ND	1.74	1.57	1.40	MCVR 1.5/2-ST-3.81	1827127
3	3.81	7.62	12.22	2.3	277-1192-ND	2.59	2.33	2.07	MCVR 1.5/3-ST-3.81	1827130
4	3.81	11.43	16.03	2.3	277-1193-ND	3.45	3.11	2.76	MCVR 1.5/4-ST-3.81	1827143
5	3.81	15.24	19.84	2.3	277-1194-ND	4.33	3.90	3.47	MCVR 1.5/5-ST-3.81	1827156
6	3.81	19.05	23.65	2.3	277-1195-ND	5.19	4.67	4.15	MCVR 1.5/6-ST-3.81	1827169
7	3.81	22.86	27.46	2.3	277-1196-ND	6.05	5.45	4.84	MCVR 1.5/7-ST-3.81	1827172
8	3.81	26.67	31.27	2.3	277-1197-ND	6.92	6.23	5.54	MCVR 1.5/8-ST-3.81	1827185
9	3.81	30.48	35.08	2.3	277-1198-ND	7.80	7.02	6.24	MCVR 1.5/9-ST-3.81	1827198
10	3.81	34.29	38.89	2.3	277-1199-ND	8.63	7.77	6.91	MCVR 1.5/10-ST-3.81	1827208
11	3.81	38.10	42.70	2.3	277-1200-ND	9.52	8.57	7.62	MCVR 1.5/11-ST-3.81	1827211
12	3.81	41.91	46.51	2.3	277-1201-ND	10.40	9.36	8.32	MCVR 1.5/12-ST-3.81	1827224
13	3.81	45.72	50.32	2.3	277-1202-ND	11.25	10.13	9.00	MCVR 1.5/13-ST-3.81	1827237
14	3.81	49.53	54.13	2.3	277-1203-ND	12.12	10.91	9.70	MCVR 1.5/14-ST-3.81	1827240
15	3.81	53.34	57.94	2.3	277-1204-ND	12.99	11.69	10.39	MCVR 1.5/15-ST-3.81	1827253
16	3.81	57.15	61.75	2.3	277-1205-ND	13.85	12.47	11.08	MCVR 1.5/16-ST-3.81	1827266
Fig. 15 — 3.81mm Connector Header — Right Angle										
2	3.81	3.81	9.01	2.6	277-1206-ND	.56	.51	.45	MC 1.5/2-G-3.81	1803277
3	3.81	7.62	12.82	2.6	277-1207-ND	.85	.77	.68	MC 1.5/3-G-3.81	1803280
4	3.81	11.43	16.63	2.6	277-1208-ND	1.12	1.01	.90	MC 1.5/4-G-3.81	1803293
5	3.81	15.24	20.44	2.6	277-1209-ND	1.39	1.26	1.12	MC 1.5/5-G-3.81	1803303
6	3.81	19.05	24.25	2.6	277-1210-ND	1.68	1.51	1.35	MC 1.5/6-G-3.81	1803316
7	3.81	22.86	28.06	2.6	277-1211-ND	1.95	1.76	1.56	MC 1.5/7-G-3.81	1803329
8	3.81	26.67	31.87	2.6	277-1212-ND	2.22	2.01	1.78	MC 1.5/8-G-3.81	1803332
9	3.81	30.48	35.68	2.6	277-1213-ND	2.54	2.29	2.03	MC 1.5/9-G-3.81	1803345
10	3.81	34.29	39.49	2.6	277-1214-ND	2.81	2.53	2.25	MC 1.5/10-G-3.81	1803358
11	3.81	38.10	43.30	2.6	277-1215-ND	3.07	2.77	2.46	MC 1.5/11-G-3.81	1803361
12	3.81	41.91	47.11	2.6	277-1216-ND	3.37	3.03	2.70	MC 1.5/12-G-3.81	1803374
13	3.81	45.72	50.92	2.6	277-1217-ND	3.63	3.27	2.91	MC 1.5/13-G-3.81	1803387
14	3.81	49.53	54.73	2.6	277-1218-ND	3.90	3.51	3.12	MC 1.5/14-G-3.81	1803390
15	3.81	53.34	58.54	2.6	277-1219-ND	4.19	3.77	3.35	MC 1.5/15-G-3.81	1803400
16	3.81	57.15	62.35	2.6	277-1220-ND	4.46	4.02	3.57	MC 1.5/16-G-3.81	1803413
Fig. 16 — 3.81mm Connector Header — Vertical										
2	3.81	3.81	9.01	2.6	277-1221-ND	.56	.51	.45	MCV 1.5/2-G-3.81	1803426
3	3.81	7.62	12.82	2.6	277-1222-ND	.85	.77	.68	MCV 1.5/3-G-3.81	1803439
4	3.81	11.43	16.63	2.6	277-1223-ND	1.12	1.01	.90	MCV 1.5/4-G-3.81	1803442
5	3.81	15.24	20.44	2.6	277-1224-ND	1.39	1.26	1.12	MCV 1.5/5-G-3.81	1803455
6	3.81	19.05	24.25	2.6	277-1225-ND	1.68	1.51	1.35	MCV 1.5/6-G-3.81	1803468
7	3.81	22.86	28.06	2.6	277-1226-ND	1.95	1.76	1.56	MCV 1.5/7-G-3.81	1803471
8	3.81	26.67	31.87	2.6	277-1227-ND	2.22	2.01	1.78	MCV 1.5/8-G-3.81	1803484
9	3.81	30.48	35.68	2.6	277-1228-ND	2.54	2.29	2.03	MCV 1.5/9-G-3.81	1803497
10	3.81	34.29	39.49	2.6	277-1229-ND	2.81	2.53	2.25	MCV 1.5/10-G-3.81	1803507
11	3.81	38.10	43.30	2.6	277-1230-ND	3.07	2.77	2.46	MCV 1.5/11-G-3.81	1803510
12	3.81	41.91	47.11	2.6	277-1231-ND	3.37	3.03	2.70	MCV 1.5/12-G-3.81	1803523
13	3.81	45.72	50.92	2.6	277-1232-ND	3.63	3.27	2.91	MCV 1.5/13-G-3.81	1803536
14	3.81	49.53	54.73	2.6	277-1233-ND	3.90	3.51	3.12	MCV 1.5/14-G-3.81	1803549
15	3.81	53.34	58.54	2.6	277-1234-ND	4.19	3.77	3.35	MCV 1.5/15-G-3.81	1803552
16	3.81	57.15	62.35	2.6	277-1235-ND	4.46	4.02	3.57	MCV 1.5/16-G-3.81	1803565
Fig. 17 — 7.62mm Connector Terminal Block Plug										
2	7.62	7.62	15.22	3.8	277-1463-ND	3.89	3.50	3.11	PC 4 HV/2-ST-7.62	1848892
3	7.62	15.24	22.84	3.8	277-1464-ND	5.85	5.27	4.68	PC 4 HV/3-ST-7.62	1848902
4	7.62	22.86	30.46	3.8	277-1465-ND	7.77	7.00	6.22	PC 4 HV/4-ST-7.62	1848915
Fig. 18 — 7.62mm Connector Header - Right Angle										
2	7.62	7.62	15.22	3.8	277-1466-ND	2.52	2.27	2.02	PC 4/2-G-7.62	1804797
3	7.62	15.24	22.84	3.8	277-1467-ND	3.78	3.41	3.03	PC 4/3-G-7.62	1804807
4	7.62	22.86	30.46	3.8	277-1468-ND	4.99	4.50	4.00	PC 4/4-G-7.62	1804810
Fig. 19 — 7.62mm Connector Header - Vertical										
2	7.62	7.62	15.22	3.8	277-1469-ND	2.52	2.27	2.02	PCV 4/2-G-7.62	1804687
3	7.62	15.24	22.84	3.8	277-1470-ND	3.78	3.41	3.03	PCV 4/3-G-7.62	1804690
4	7.62	22.86	30.46	3.8	277-1471-ND	4.99	4.50	4.00	PCV 4/4-G-7.62	1804700

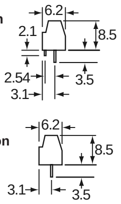
Terminal Blocks

Micro-Pitch Terminal Blocks: The MPT 0.5 is the smallest screw terminal block available. With a micro-pitch of 2.54mm, the MPT 0.5 is ideal for high density applications.

Press Fit Terminal Blocks: The Press-Fit printed circuit board terminal block line is the perfect solution when wave soldering is not an option. The Press-Fit line is available in both fixed and pluggable styles.

Fig. 1

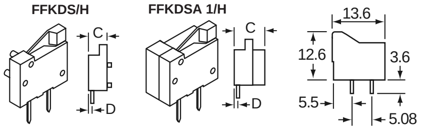




NOTE: The 2 and 3 position versions have an additional locating pin to support the mechanical load.

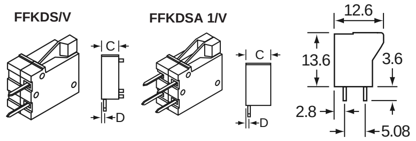
Specifications:
UL: 125 V @ 6 A, 30-20 AWG.
IEC: 63 V @ 6 A, 26-20 AWG. **Color:** Green

Fig. 2



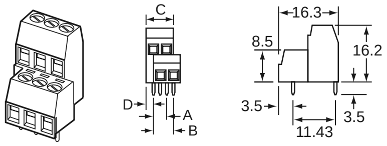
Specifications:
UL: 150 V @ 6 A, 26-20 AWG. **IEC:** 63 V @ 6 A, 26-20 AWG.
Color: Green

Fig. 3



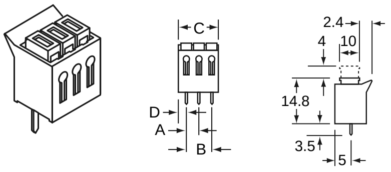
Specifications:
UL: 150 V @ 6 A, 26-20 AWG. **IEC:** 63 V @ 6 A, 26-20 AWG.
Color: Green

Fig. 4



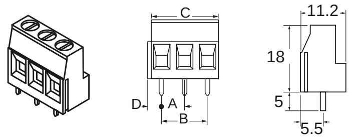
Specifications:
UL: 300 V @ 10 A. 30-16 AWG. **IEC:** 125 V @ 10 A. 26-16 AWG.
Color: Green

Fig. 5



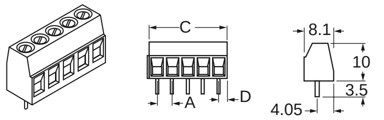
Specifications:
UL: 300 V @ 5 A. 28-22 AWG.
IEC: 125 V @ 5 A. 26-22 AWG. **Color:** Green

Fig. 6



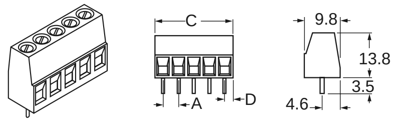
Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 32 A. 12-24 AWG. **Color:** Green

Fig. 7



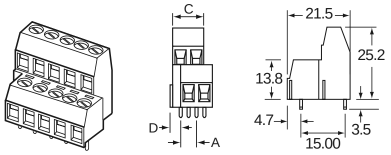
Specifications:
UL: 300 V @ 10 A. 14-30 AWG.
IEC: 250 V @ 16 A. 16-26 AWG. **Color:** Green

Fig. 8



Specifications:
UL: 300 V @ 15 A. 14-30 AWG.
IEC: 250 V @ 24 A. 14-26 AWG. **Color:** Green

Fig. 9



Specifications:
UL: 300 V @ 10 A. 30-14 AWG. **IEC:** 250 V @ 24 A. 26-14 AWG.
Color: Green

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 1 — 2.54mm Micro-Pitch Terminal Blocks										
2	2.54	2.54	5.54	1.50	277-1273-ND	1.07	.96	.86	MPT 0.5/2-2.54	1725656
3	2.54	5.08	8.08	1.50	277-1274-ND	1.59	1.43	1.27	MPT 0.5/3-2.54	1725669
4	2.54	7.62	10.62	1.50	277-1275-ND	2.15	1.94	1.72	MPT 0.5/4-2.54	1725672
5	2.54	10.16	13.16	1.50	277-1276-ND	2.67	2.40	2.14	MPT 0.5/5-2.54	1725685
6	2.54	12.70	15.70	1.50	277-1277-ND	3.20	2.88	2.56	MPT 0.5/6-2.54	1725698
7	2.54	15.24	18.24	1.50	277-1278-ND	3.71	3.34	2.97	MPT 0.5/7-2.54	1725708
8	2.54	17.78	20.78	1.50	277-1279-ND	4.26	3.84	3.42	MPT 0.5/8-2.54	1725711
9	2.54	20.32	23.32	1.50	277-1280-ND	4.78	4.31	3.83	MPT 0.5/9-2.54	1725724
10	2.54	22.86	25.86	1.50	277-1281-ND	5.33	4.80	4.27	MPT 0.5/10-2.54	1725737
11	2.54	25.40	28.40	1.50	277-1282-ND	5.86	5.28	4.70	MPT 0.5/11-2.54	1725740
12	2.54	27.94	30.94	1.50	277-1283-ND	6.41	5.77	5.13	MPT 0.5/12-2.54	1725753
Fig. 2 — Modular 2.54mm PCB Spring Cage Fixed Terminal Block - Horizontal Wire Entry										
1	—	—	2.54	0.90	277-1310-ND	.72	.65	.58	FFKDS/H-2.54	1791826
Fig. 2 — End Terminal Block for FFKDS/H-2.54										
1	—	—	5.08	0.90	277-1311-ND	1.14	1.03	.92	FFKDSA 1/H-5.08	1791868
Fig. 3 — Modular 2.54mm PCB Spring Cage Fixed Terminal Block - Vertical Wire Entry										
1	—	—	2.54	0.90	277-1312-ND	.72	.65	.58	FFKDS/V-2.54	1791813
Fig. 3 — End Terminal Block for FFKDS/V-2.54										
1	—	—	5.08	0.90	277-1313-ND	1.09	.99	.88	FFKDSA 1/V-5.08	1791855
Fig. 4 — 3.81mm Double Level Terminal Blocks										
2	3.81	3.81	7.62	1.90	277-1356-ND	2.65	2.39	2.13	MKKDS 1/2-3.81	1708026
3	3.81	7.62	11.43	1.90	277-1357-ND	3.97	3.57	3.18	MKKDS 1/3-3.81	1708039
4	3.81	11.43	15.24	1.90	277-1358-ND	5.30	4.78	4.25	MKKDS 1/4-3.81	1708042
5	3.81	15.24	19.05	1.90	277-1359-ND	6.62	5.96	5.30	MKKDS 1/5-3.81	1708055
6	3.81	19.05	22.86	1.90	277-1360-ND	7.94	7.15	6.36	MKKDS 1/6-3.81	1708068
7	3.81	22.86	26.67	1.90	277-1361-ND	9.28	8.36	7.43	MKKDS 1/7-3.81	1708071
8	3.81	26.67	30.48	1.90	277-1362-ND	10.61	9.55	8.49	MKKDS 1/8-3.81	1708084
9	3.81	30.48	34.29	1.90	277-1363-ND	11.93	10.75	9.55	MKKDS 1/9-3.81	1708107
10	3.81	34.29	38.10	1.90	277-1364-ND	13.26	11.94	10.61	MKKDS 1/10-3.81	1708110
11	3.81	38.10	41.91	1.90	277-1365-ND	14.59	13.13	11.67	MKKDS 1/11-3.81	1708123
12	3.81	41.91	45.72	1.90	277-1366-ND	15.91	14.33	12.73	MKKDS 1/12-3.81	1708136

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 5 — 3.81mm Insulation Displacement Terminal Blocks										
2	3.81	3.81	8.81	2.50	277-1417-ND	.82	.74	.66	IDC 0.3/2-3.81	1706170
3	3.81	7.62	12.62	2.50	277-1418-ND	1.17	1.06	.94	IDC 0.3/3-3.81	1706183
4	3.81	11.43	16.43	2.50	277-1419-ND	1.50	1.35	1.20	IDC 0.3/4-3.81	1706196
5	3.81	15.24	20.24	2.50	277-1420-ND	1.86	1.68	1.49	IDC 0.3/5-3.81	1706206
6	3.81	19.06	24.05	2.50	277-1421-ND	2.18	1.97	1.75	IDC 0.3/6-3.81	1706219
7	3.81	22.86	27.86	2.50	277-1422-ND	2.55	2.30	2.04	IDC 0.3/7-3.81	1706222
8	3.81	26.67	31.67	2.50	277-1423-ND	2.87	2.59	2.30	IDC 0.3/8-3.81	1706235
9	3.81	30.48	35.48	2.50	277-1424-ND	3.22	2.91	2.58	IDC 0.3/9-3.81	1706248
10	3.81	34.29	39.29	2.50	277-1425-ND	3.56	3.21	2.85	IDC 0.3/10-3.81	1706251
11	3.81	38.10	43.10	2.50	277-1426-ND	3.91	3.53	3.14	IDC 0.3/11-3.81	1706264
12	3.81	41.91	46.91	2.50	277-1427-ND	4.25	3.83	3.41	IDC 0.3/12-3.81	1706277
Fig. 6 — 5mm PCB Connector Terminal Block										
2	5.0	5	10	2.5	277-1022-ND	1.35	1.22	1.09	MKDS 3/2	1711026
3	5.0	10	15	2.5	277-1023-ND	2.05	1.85	1.65	MKDS 3/3	1711039
4	5.0	15	20	2.5	277-1024-ND	2.72	2.45	2.18	MKDS 3/4	1711042
8	5.0	35	40	2.5	277-1025-ND	5.43	4.90	4.35	MKDS 3/8	1711084
12	5.0	55	60	2.5	277-1026-ND	8.11	7.31	6.49	MKDS 3/12	1711123
Fig. 7 — 5mm PCB Connector Terminal Block										
2	5.0	—	10	2.5	277-1236-ND	.72	.65	.58	MKDSN 1.5/2	1729018
3	5.0	—	15	2.5	277-1237-ND	1.09	.99	.88	MKDSN 1.5/3	1729021
4	5.0	—	20	2.5	277-1238-ND	1.46	1.31	1.17	MKDSN 1.5/4	1729034
5	5.0	—	25	2.5	277-1239-ND	1.81	1.63	1.45	MKDSN 1.5/5	1729047
6	5.0	—	30	2.5	277-1240-ND	2.17	1.96	1.74	MKDSN 1.5/6	1729050
7	5.0	—	35	2.5	277-1241-ND	2.55	2.30	2.04	MKDSN 1.5/7	1729063
8	5.0	—	40	2.5	277-1242-ND	2.90	2.61	2.32	MKDSN 1.5/8	1729076
9	5.0	—	45	2.5	277-1243-ND	3.26	2.94	2.62	MKDSN 1.5/9	1729089
10	5.0	—	50	2.5	277-1244-ND	3.63	3.27	2.91	MKDSN 1.5/10	1729092
11	5.0	—	55	2.5	277-1245-ND	3.98	3.58	3.19	MKDSN 1.5/11	1729102
12	5.0	—	60	2.5	277-1246-ND	4.36	3.92	3.49	MKDSN 1.5/12	1729115
Fig. 8 — 5mm PCB Connector Terminal Block										
2	5.0	—	10	2.5	277-1258-ND	.86	.78	.69	MKDS 1.5/2	1715022
3	5.0	—	15	2.5	277-1259-ND	1.29	1.16	1.03	MKDS 1.5/3	1715035
4	5.0	—	20	2.5	277-1260-ND	1.73	1.56	1.39	MKDS 1.5/4	1715048
8	5.0	—	40	2.5	277-1261-ND	3.42	3.08	2.74	MKDS 1.5/8	1715080
12	5.0	—	60	2.5	277-1262-ND	5.17	4.66	4.14	MKDS 1.5/12	1715129

(Continued)

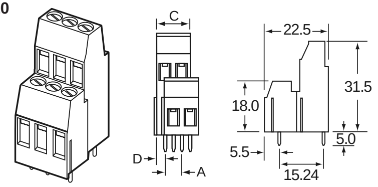
Multi-Level Terminal Blocks:

With their small pitch, the two and three level MKKDS and MK3DS are ideal solutions due to the increasing packing and connection density on printed circuit boards.

Insulation Displacement Terminal Blocks:

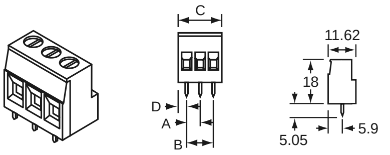
The IDC printed circuit board terminal blocks mass terminate insulated conductors quickly without the need for tools.

Fig. 10



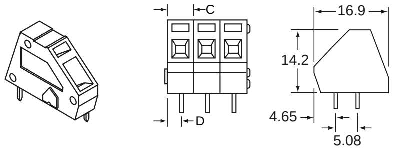
Specifications:
UL: 300 V @ 10 A. 30-12 AWG.
IEC: 250 V @ 22 A. 24-12 AWG. **Color:** Green

Fig. 11



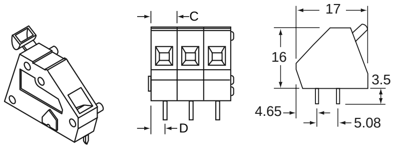
Specifications:
UL: 300 V @ 10 A, 30-12 AWG. **IEC:** 250 V @ 12 A, 28-14 AWG.
Color: Green

Fig. 12



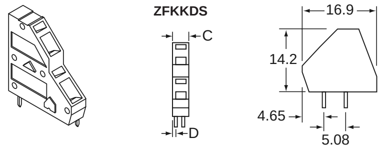
Specifications:
UL: 300 V @ 6 A. **IEC:** 250 V @ 6 A. **Color:** Green

Fig. 13



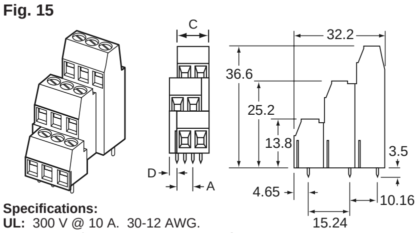
Specifications:
UL: 300 V @ 6 A. **IEC:** 250 V @ 6 A. **Color:** Green

Fig. 14



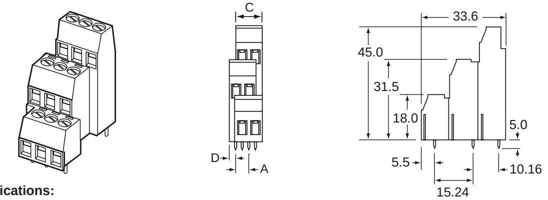
Specifications:
UL: 300 V @ 10 A, 26-12 AWG.
IEC: 250 V @ 12 A, 24-14 AWG. **Color:** Green

Fig. 15



Specifications:
UL: 300 V @ 10 A. 30-12 AWG.
IEC: 250 V @ 22 A. 26-14 AWG. **Color:** Green

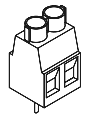
Fig. 16



Specifications:
UL: 300 V @ 10 A. 30-12 AWG.
IEC: 250 V @ 32 A. 24-12 AWG. **Color:** Green

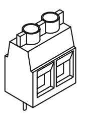
Fig. 17

A

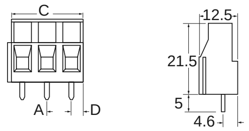


Specifications:
UL: 300 V @ 10 A. 10-30 AWG.
IEC: 500 V @ 32 A. 10-24 AWG. **Color:** Green

B



Specifications:
UL: 300 V @ 30 A, 10-30 AWG; and 600 V @ 5A
IEC: 690 V @ 32 A. 10-24 AWG. **Color:** Green



No. of Pos.	Dimensions (mm)				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
Fig. 9 — 5.0mm & 5.08mm Double Level Terminal Blocks										
2	5.00	—	10.00	2.50	277-1367-ND	2.05	1.85	1.65	MKKDS 1.5/2	1725012
3	5.00	—	15.00	2.50	277-1368-ND	3.07	2.77	2.46	MKKDS 1.5/3	1725025
2	5.08	—	10.16	2.54	277-1369-ND	2.05	1.85	1.65	MKKDS 1.5/2-5.08	1725038
3	5.08	—	15.24	2.54	277-1370-ND	3.07	2.77	2.46	MKKDS 1.5/3-5.08	1725041
Fig. 10 — 5.0mm and 5.08mm Double Level Terminal Blocks										
2	5.00	—	10.00	2.50	277-1371-ND	3.47	3.13	2.78	MKKDS 3/2	1721029
3	5.00	—	15.00	2.50	277-1372-ND	5.21	4.70	4.18	MKKDS 3/3	1721032
2	5.08	—	10.16	2.54	277-1373-ND	3.47	3.13	2.78	MKKDS 3/2-5.08	1721728
3	5.08	—	15.24	2.54	277-1374-ND	5.21	4.70	4.18	MKKDS 3/3-5.08	1721731
Fig. 11 — 5.08mm Press-Fit PCB Terminal Blocks										
2	5.08	5.08	11.34	3.13	277-1284-ND	1.56	1.41	1.25	EMKDS 2.5/2-5.08	1730612
3	5.08	10.16	16.42	3.13	277-1285-ND	2.33	2.10	1.87	EMKDS 2.5/3-5.08	1730625
4	5.08	15.24	21.50	3.13	277-1286-ND	3.13	2.82	2.51	EMKDS 2.5/4-5.08	1730638
5	5.08	20.32	26.58	3.13	277-1287-ND	3.90	3.51	3.12	EMKDS 2.5/5-5.08	1730641
6	5.08	25.40	31.66	3.13	277-1288-ND	4.69	4.23	3.76	EMKDS 2.5/6-5.08	1730654
7	5.08	30.48	36.74	3.13	277-1289-ND	5.46	4.92	4.37	EMKDS 2.5/7-5.08	1730667
8	5.08	35.56	41.82	3.13	277-1290-ND	6.21	5.60	4.98	EMKDS 2.5/8-5.08	1730670
9	5.08	40.64	46.90	3.13	277-1291-ND	7.03	6.33	5.63	EMKDS 2.5/9-5.08	1730683
10	5.08	45.72	51.98	3.13	277-1292-ND	7.79	7.01	6.23	EMKDS 2.5/10-5.08	1730696
11	5.08	50.80	57.06	3.13	277-1293-ND	8.59	7.74	6.88	EMKDS 2.5/11-5.08	1730706
12	5.08	55.88	62.14	3.13	277-1294-ND	9.37	8.44	7.50	EMKDS 2.5/12-5.08	1730719
Fig. 6 — 5.08mm PCB Connector Terminal Block										
2	5.08	5.08	10.16	2.54	277-1027-ND	1.35	1.22	1.09	MKDS 3/2-5.08	1711725
3	5.08	10.16	15.24	2.54	277-1028-ND	2.05	1.85	1.65	MKDS 3/3-5.08	1711738
Fig. 7 — 5.08mm PCB Connector Terminal Block										
2	5.08	—	10.16	2.54	277-1247-ND	.72	.65	.58	MKDSN 1.5/2-5.08	1729128
3	5.08	—	15.24	2.54	277-1248-ND	1.09	.99	.88	MKDSN 1.5/3-5.08	1729131
4	5.08	—	20.32	2.54	277-1249-ND	1.46	1.31	1.17	MKDSN 1.5/4-5.08	1729144
5	5.08	—	25.40	2.54	277-1250-ND	1.81	1.63	1.45	MKDSN 1.5/5-5.08	1729157
6	5.08	—	30.48	2.54	277-1251-ND	2.17	1.96	1.74	MKDSN 1.5/6-5.08	1729160
7	5.08	—	35.56	2.54	277-1252-ND	2.55	2.30	2.04	MKDSN 1.5/7-5.08	1729173
8	5.08	—	40.64	2.54	277-1253-ND	2.90	2.61	2.32	MKDSN 1.5/8-5.08	1729186
9	5.08	—	45.72	2.54	277-1254-ND	3.26	2.94	2.62	MKDSN 1.5/9-5.08	1729199
10	5.08	—	50.80	2.54	277-1255-ND	3.63	3.27	2.91	MKDSN 1.5/10-5.08	1729209
11	5.08	—	55.88	2.54	277-1256-ND	3.98	3.58	3.19	MKDSN 1.5/11-5.08	1729212
12	5.08	—	60.96	2.54	277-1257-ND	4.36	3.92	3.49	MKDSN 1.5/12-5.08	1729225

No. of Pos.	Dimensions (mm)				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
Fig. 8 — 5.08mm PCB Connector Terminal Block										
2	5.08	—	10.16	2.54	277-1263-ND	.86	.78	.69	MKDS 1.5/2-5.08	1715721
3	5.08	—	15.24	2.54	277-1264-ND	1.29	1.16	1.03	MKDS 1.5/3-5.08	1715734
4	5.08	—	20.32	2.54	277-1265-ND	1.73	1.56	1.39	MKDS 1.5/4-5.08	1715747
8	5.08	—	40.64	2.54	277-1266-ND	3.42	3.08	2.74	MKDS 1.5/8-5.08	1715789
10	5.08	—	50.80	2.54	277-1267-ND	4.32	3.89	3.46	MKDS 1.5/10-5.08	1715802
12	5.08	—	60.96	2.54	277-1268-ND	5.17	4.66	4.14	MKDS 1.5/12-5.08	1715828
Fig. 12 — Modular 5.08mm PCB Spring Cage Fixed Terminal Block - Single Level without Lever										
1	—	—	5.08	2.54	277-1314-ND	.31	.29	.25	ZFKDS 1.5-5.08	1706701
Fig. 12 — End Terminal Block for ZFKDS 1.5-5.08										
1	—	—	7.62	2.54	277-1315-ND	.44	.40	.36	ZFKDSA1.5-7.62	1706727
Fig. 13 — Modular 5.08mm PCB Spring Cage Fixed Terminal Block - Single Level with Lever										
1	—	—	5.08	2.54	277-1316-ND	.39	.36	.32	ZFKDS 1.5-W-5.08	1706714
Fig. 13 — End Terminal Block for ZFKDS 1.5-W-5.08										
1	—	—	7.62	2.54	277-1317-ND	.51	.46	.41	ZFKDSA 1.5-W-7.62	1706730
Fig. 14 — Modular 5.08mm PCB Spring Cage Fixed Terminal Block - Double Level without Lever										
1	—	—	5.08	1.27	277-1318-ND	.86	.78	.69	ZFKKDS 1.5-5.08	1704402
Fig. 15 — 5.08mm Triple Level Terminal Blocks										
2	5.08	—	10.16	2.54	277-1375-ND	5.42	4.88	4.34	MK3DS 1.5/2-5.08	1724013
3	5.08	—	15.24	2.54	277-1376-ND	8.14	7.33	6.52	MK3DS 1.5/3-5.08	1724026
Fig. 16 — 5.08mm Triple Level Terminal Blocks										
2	5.08	—	10.16	2.54	277-1377-ND	4.90	4.42	3.93	MK3DS 3/2-5.08	1723014
3	5.08	—	15.24	2.54	277-1378-ND	7.37	6.64	5.90	MK3DS 3/3-5.08	1723027
Fig. 17A — 6.35mm PCB Connector Terminal Block										
2	6.35	—	12.69	3.17	277-1269-ND	1.37	1.23	1.10	MKDS 5/2-6.35	1714955
3	6.35	—	19.04	3.17	277-1270-ND	1.91	1.72	1.53	MKDS 5/3-6.35	1714968
Fig. 17B — 9.52mm PCB Connector Terminal Block										
2	9.52	—	19.02	4.76	277-1271-ND	1.37	1.23	1.10	MKDS 5/2-9.5	1714971
3	9.52	—	28.52	4.76	277-1272-ND	2.00	1.81	1.61	MKDS 5/3-9.5	1714984

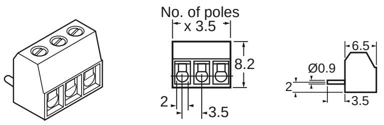
ON-SHORE TECHNOLOGY, INC.

Terminal Blocks

UL# E101811, 86ME2081
CSA# 068503X0000

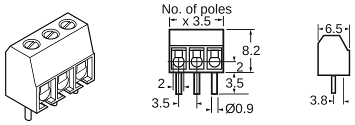
These On-Shore Technology Terminal Blocks are Stackable for any number of contacts. 4.5mm Lead Length.

Fig. 1



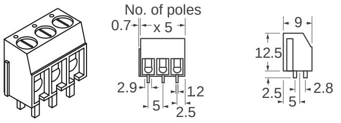
SPECIFICATIONS: • Rated Voltage: 125V • Rated Current: 6A • Wire Size: 28-16AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Grey

Fig. 2



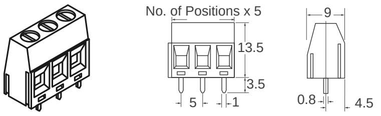
SPECIFICATIONS: • Rated Voltage: 125V • Rated Current: 6A • Wire Size: 28-16AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Grey

Fig. 3



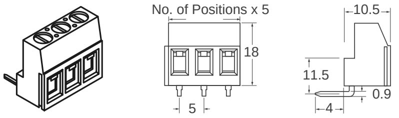
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-12AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Grey

Fig. 4



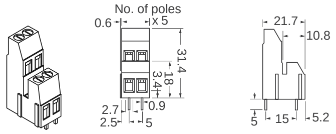
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 28-12AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Green

Fig. 5



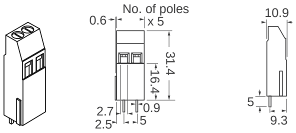
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 22-14AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Green

Fig. 6



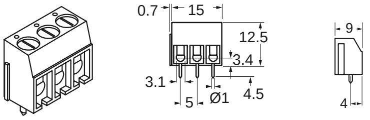
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 30-12AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Green

Fig. 7



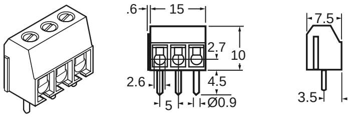
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 30-12AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Green

Fig. 8



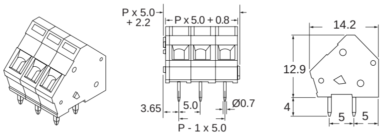
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: AWG 22-14 • Temp.: -30°C/+105°C • Flammability: UL94V-O • Color: Blue

Fig. 9



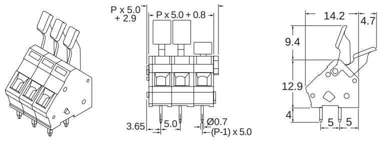
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: AWG 22-14 • Temp.: -30°C/+105°C • Flammability: UL94V-O • Color: Blue

Fig. 10



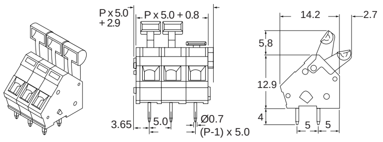
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/+105°C • Flammability: UL94V-O • Color: Slade Gray

Fig. 11



SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/+105°C • Flammability: UL94V-O • Color: Slade Gray

Fig. 12



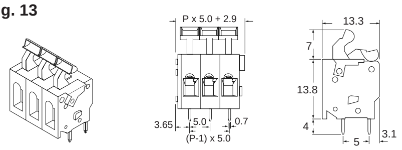
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/+105°C • Flammability: UL94V-O • Color: Slade Gray

Fig.	No. of Pos.	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
3.5mm Lead Spacing - Terminal Blocks						
1	2	7.0	ED1501-ND	.40	.36	.32
	3	10.5	ED1502-ND	.60	.54	.48
	4	14.0	ED1503-ND	.80	.72	.64
	5	17.5	ED1504-ND	1.00	.90	.80
	6	21.0	ED1505-ND	1.20	1.08	.96
	7	24.5	ED1506-ND	1.40	1.26	1.12
	8	28.0	ED1507-ND	1.60	1.44	1.28
	9	31.5	ED1508-ND	1.80	1.62	1.44
	10	35.0	ED1509-ND	2.00	1.80	1.60
	11	38.5	ED1510-ND	2.20	1.98	1.76
	12	42.0	ED1511-ND	2.40	2.16	1.92
	14	49.0	ED1512-ND	2.80	2.52	2.24
	16	56.0	ED1513-ND	3.20	2.88	2.56
2	2	7.0	ED1514-ND	.40	.36	.32
	3	10.5	ED1515-ND	.60	.54	.48
	4	14.0	ED1516-ND	.80	.72	.64
	5	17.5	ED1517-ND	1.00	.90	.80
	6	21.0	ED1518-ND	1.20	1.08	.96
	7	24.5	ED1519-ND	1.40	1.26	1.12
	8	28.0	ED1520-ND	1.60	1.44	1.28
	9	31.5	ED1521-ND	1.80	1.62	1.44
	10	35.0	ED1522-ND	2.00	1.80	1.60
	11	38.5	ED1523-ND	2.20	1.98	1.76
	12	42.0	ED1524-ND	2.40	2.16	1.92
	14	49.0	ED1525-ND	2.80	2.52	2.24
	16	56.0	ED1526-ND	3.20	2.88	2.56
5.0mm Lead Spacing - Terminal Blocks						
3	2	10.0	ED1556-ND	.65	.59	.52
	3	15.0	ED1557-ND	.98	.88	.78
	4	20.0	ED1558-ND	1.30	1.17	1.04
3	5	25.0	ED1559-ND	1.63	1.47	1.30
	6	30.0	ED1560-ND	1.95	1.76	1.56
	7	35.0	ED1561-ND	2.28	2.05	1.82
	8	40.0	ED1562-ND	2.60	2.34	2.08
	9	45.0	ED1563-ND	2.93	2.64	2.34
	10	50.0	ED1564-ND	3.25	2.93	2.60
	11	55.0	ED1565-ND	3.58	3.22	2.86
	12	60.0	ED1566-ND	3.90	3.51	3.12
4	2	10.0	ED1930-ND	.55	.50	.44
	3	15.0	ED1931-ND	.83	.75	.66
5	2	10.0	ED1932-ND	.88	.79	.70
	3	15.0	ED1933-ND	1.31	1.19	1.05
6	2	10.0	ED1578-ND	2.00	1.80	1.60
	4	20.0	ED1580-ND	4.00	3.60	3.20
	5	25.0	ED1581-ND	5.00	4.50	4.00
	6	30.0	ED1582-ND	6.00	5.40	4.80
	7	35.0	ED1583-ND	7.00	6.30	5.60
	8	40.0	ED1584-ND	8.00	7.20	6.40
	9	45.0	ED1585-ND	9.00	8.10	7.20
	10	50.0	ED1586-ND	10.00	9.00	8.00
	11	55.0	ED1587-ND	11.00	9.90	8.80
	12	60.0	ED1588-ND	12.00	10.80	9.60
7	2	10.0	ED1589-ND	1.23	1.11	.98
	4	20.0	ED1591-ND	2.45	2.21	1.96
	6	30.0	ED1593-ND	3.68	3.31	2.94
	8	40.0	ED1595-ND	4.90	4.41	3.92
	10	50.0	ED1597-ND	6.13	5.52	4.90
	12	60.0	ED1599-ND	7.35	6.62	5.88
8	2	10.0	ED1601-ND	.34	.31	.28
	3	15.0	ED1602-ND	.51	.47	.41
	4	20.0	ED2233-ND	.69	.63	.56
	6	30.0	ED2234-ND	1.04	.94	.83
8	8	40.0	ED2235-ND	1.38	1.25	1.11
	12	60.0	ED2236-ND	2.07	1.87	1.66
9	2	10.0	ED1623-ND	.37	.34	.30
	3	15.0	ED1624-ND	.56	.51	.45
	4	20.0	ED2221-ND	.74	.67	.60
	5	25.0	ED2222-ND	.93	.84	.74
	6	30.0	ED2223-ND	1.11	1.00	.89
	7	35.0	ED2224-ND	1.30	1.17	1.04
	10	50.0	ED2225-ND	1.85	1.67	1.48
	12	60.0	ED2226-ND	2.22	2.00	1.78
10	2	10.0	ED2237-ND	.60	.54	.48
	3	15.0	ED2238-ND	.90	.81	.72
	4	20.0	ED2239-ND	1.20	1.08	.96
	5	25.0	ED2240-ND	1.50	1.35	1.20
	6	30.0	ED2241-ND	1.80	1.62	1.44
	7	35.0	ED2242-ND	2.10	1.89	1.68
	8	40.0	ED2243-ND	2.40	2.16	1.92
	9	45.0	ED2244-ND	2.70	2.43	2.16
	10	50.0	ED2245-ND	3.00	2.70	2.40
	11	55.0	ED2246-ND	3.30	2.97	2.64
	12	60.0	ED2247-ND	3.60	3.24	2.88
11	2	10.0	ED2248-ND	.73	.66	.58
	3	15.0	ED2249-ND	1.09	.98	.87
	4	20.0	ED2250-ND	1.45	1.31	1.16
	5	25.0	ED2251-ND	1.81	1.64	1.45
	6	30.0	ED2252-ND	2.18	1.96	1.74
	7	35.0	ED2253-ND	2.54	2.29	2.03
	8	40.0	ED2254-ND	2.90	2.61	2.32
	9	45.0	ED2255-ND	3.26	2.94	2.61
	10	50.0	ED2256-ND	3.63	3.27	2.90
	11	55.0	ED2257-ND	3.99	3.59	3.19
	12	60.0	ED2258-ND	4.35	3.92	3.48

(Continued)

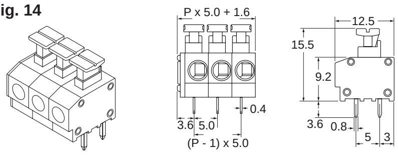
Terminal Blocks *(Cont.)*

Fig. 13



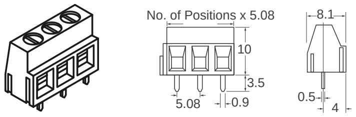
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/+105°C • Flammability: UL94V-O • Color: Slade Gray

Fig. 14



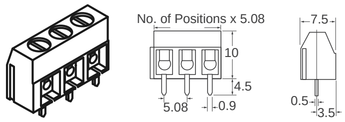
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 10A • Wire Size: 20-14AWG • Temp.: -30°C/+105°C • Flammability: UL94V-O • Color: Slade Gray

Fig. 15



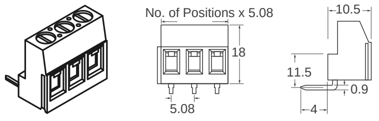
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Green

Fig. 16



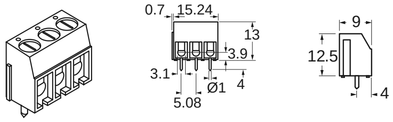
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Blue

Fig. 17



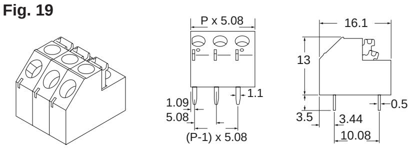
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 22-14AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Green

Fig. 18



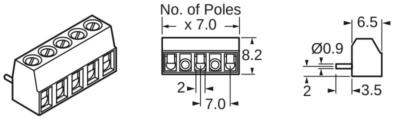
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Blue

Fig. 19



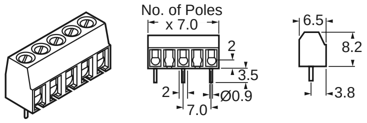
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-15AWG • Temp.: -30°C/+105°C • Flammability: UL94V-O • Color: Slade Gray

Fig. 20



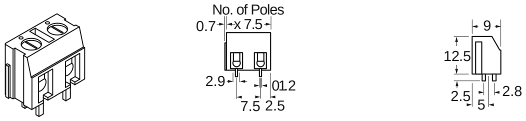
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 6A • Wire Size: 28-16AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Grey

Fig. 21



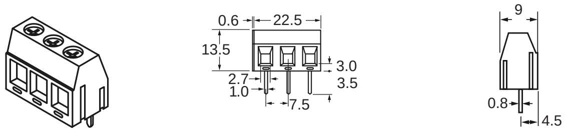
SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 6A • Wire Size: 28-16AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Grey

Fig. 22



SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Grey

Fig. 23



SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 22-12AWG • Temperature: -30°C/+105°C • Flammability: UL94V-O • Color: Green

Fig.	No. of Pos.	Block Length (mm)	Digi-Key Part No.	Price Each		
				1	10	100
12	2	10.0	ED2259-ND	.73	.66	.58
	3	15.0	ED2260-ND	1.09	.98	.87
	4	20.0	ED2261-ND	1.45	1.31	1.16
	5	25.0	ED2262-ND	1.81	1.64	1.45
	6	30.0	ED2263-ND	2.18	1.96	1.74
	7	35.0	ED2265-ND	2.54	2.29	2.03
	8	40.0	ED2266-ND	2.90	2.61	2.32
	9	45.0	ED2267-ND	3.26	2.94	2.61
	10	50.0	ED2268-ND	3.63	3.27	2.90
	11	55.0	ED2269-ND	3.99	3.59	3.19
	12	60.0	ED2270-ND	4.35	3.92	3.48
13	2	10.0	ED2293-ND	.68	.61	.54
	3	15.0	ED2294-ND	1.01	.92	.81
	4	20.0	ED2295-ND	1.35	1.22	1.08
	5	25.0	ED2296-ND	1.69	1.52	1.35
	6	30.0	ED2297-ND	2.03	1.83	1.62
	7	35.0	ED2298-ND	2.36	2.13	1.89
	8	40.0	ED2299-ND	2.70	2.43	2.16
	9	45.0	ED2300-ND	3.04	2.74	2.43
	10	50.0	ED2301-ND	3.38	3.04	2.70
	11	55.0	ED2302-ND	3.71	3.35	2.97
	12	60.0	ED2303-ND	4.05	3.65	3.24
14	2	10.0	ED2315-ND	.73	.66	.58
	3	15.0	ED2316-ND	1.09	.98	.87
	4	20.0	ED2317-ND	1.45	1.31	1.16
	5	25.0	ED2318-ND	1.81	1.64	1.45
	6	30.0	ED2319-ND	2.18	1.96	1.74
	7	35.0	ED2320-ND	2.54	2.29	2.03
	8	40.0	ED2321-ND	2.90	2.61	2.32
	9	45.0	ED2322-ND	3.26	2.94	2.61

Fig.	No. of Pos.	Block Length (mm)	Digi-Key Part No.	Price Each		
				1	10	100
14	10	50.0	ED2323-ND	3.63	3.27	2.90
	11	55.0	ED2324-ND	3.99	3.59	3.19
	12	60.0	ED2325-ND	4.35	3.92	3.48
5.08mm Lead Spacing - Terminal Blocks						
15	2	10.16	ED1973-ND	.60	.54	.48
	3	15.24	ED1974-ND	.90	.81	.72
16	2	10.16	ED1975-ND	.40	.36	.32
	3	15.24	ED1976-ND	.60	.54	.48
17	2	10.16	ED1977-ND	.88	.79	.70
	3	15.24	ED1978-ND	1.31	1.19	1.05
18	2	10.16	ED1609-ND	.37	.34	.30
	3	15.24	ED1610-ND	.55	.50	.45
	4	20.32	ED2227-ND	.74	.67	.60
	5	25.40	ED2228-ND	.93	.84	.74
	6	30.48	ED2229-ND	1.11	1.00	.89
	7	35.56	ED2230-ND	1.30	1.17	1.04
	10	50.80	ED2231-ND	1.85	1.67	1.48
	12	60.96	ED2232-ND	2.22	2.00	1.78
19	2	10.16	ED2326-ND	.78	.70	.62
	3	15.24	ED2327-ND	1.16	1.05	.93
	4	20.32	ED2328-ND	1.55	1.40	1.24
	5	25.40	ED2329-ND	1.94	1.75	1.55
	6	30.48	ED2330-ND	2.33	2.10	1.86
	7	35.56	ED2331-ND	2.71	2.45	2.17
7.0mm Lead Spacing - Terminal Blocks						
20	2	14.0	ED1527-ND	.44	.40	.36
	3	21.0	ED1528-ND	.66	.60	.53
	4	28.0	ED1529-ND	.88	.80	.71
	5	35.0	ED1530-ND	1.10	.99	.88
	7	49.0	ED1532-ND	1.54	1.39	1.24
	8	56.0	ED1533-ND	1.76	1.59	1.41

Fig.	No. of Pos.	Block Length (mm)	Digi-Key Part No.	Price Each		
				1	10	100
21	2	14.0	ED1534-ND	.44	.40	.36
	3	21.0	ED1535-ND	.66	.60	.53
	4	28.0	ED1536-ND	.88	.80	.71
	5	35.0	ED1537-ND	1.10	.99	.88
	6	42.0	ED1538-ND	1.32	1.19	1.06
	7	49.0	ED1539-ND	1.54	1.39	1.24
	8	56.0	ED1540-ND	1.76	1.59	1.41
7.5mm Lead Spacing - Terminal Blocks						
22	2	15.0	ED1567-ND	.75	.68	.60
	3	22.5	ED1568-ND	1.13	1.02	.90
	4	30.0	ED1569-ND	1.50	1.35	1.20
	5	37.5	ED1570-ND	1.88	1.69	1.50
	6	45.0	ED1571-ND	2.25	2.03	1.80
	7	52.5	ED1572-ND	2.63	2.37	2.10
	8	60.0	ED1573-ND	3.00	2.70	2.40
	9	67.5	ED1574-ND	3.38	3.04	2.70
	10	75.0	ED1575-ND	3.75	3.38	3.00
	11	82.5	ED1576-ND	4.13	3.72	3.30
	12	90.0	ED1577-ND	4.50	4.05	3.60
23	2	15.0	ED2354-ND	.68	.61	.54
	3	22.5	ED2355-ND	1.01	.92	.81
	4	30.0	ED2356-ND	1.35	1.22	1.08
	5	37.5	ED2357-ND	1.69	1.52	1.35
	6	45.0	ED2358-ND	2.03	1.83	1.62
	7	52.5	ED2359-ND	2.36	2.13	1.89
	8	60.0	ED2360-ND	2.70	2.43	2.16
	9	67.5	ED2361-ND	3.04	2.74	2.43
	10	75.0	ED2362-ND	3.38	3.04	2.70
	11	82.5	ED2363-ND	3.71	3.35	2.97
	12	90.0	ED2364-ND	4.05	3.65	3.24

ON-SHORE TECHNOLOGY, INC.

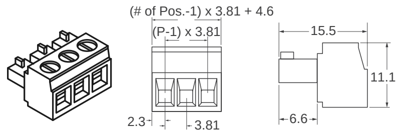
Two-Piece Terminal Blocks

FEATURES

• Modularity:
Fixed and Pluggable PCB Terminals are available in both metric and inch pin spacings. The key feature of our modular terminal housings is their tongue and groove joint design that permits individual 2 or 3 pole terminal modules to be joined together to produce multi-pole terminal assemblies.

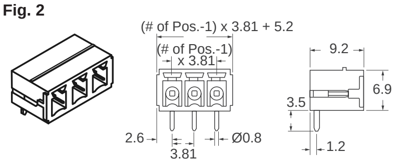
• Housings:
PCB Mini-Terminal Block housings are precision molded from self-extinguishing 6.6 polyimide (nylon) molding material. All housings have funnel shaped wire entry guides to prevent wire fraying and minimize misconnections.

Fig. 1



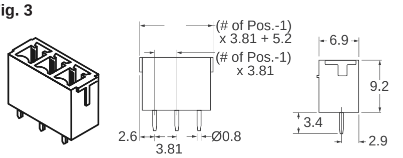
SPECIFICATIONS: **• Rated Voltage:** 300V **• Rated Current:** 8A **• Wire Size:** 28-16AWG **• Temperature:** -30°C/+105°C **• Flammability:** UL94V-O **• Color:** Green

Fig. 2



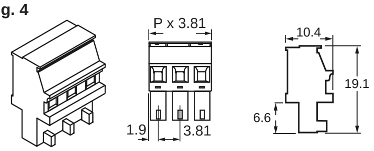
SPECIFICATIONS: **• Rated Voltage:** 300V **• Rated Current:** 8A **• Temperature:** -30°C/+105°C **• Flammability:** UL94V-O **• Color:** Green

Fig. 3



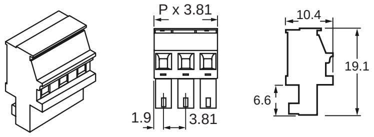
SPECIFICATIONS: **• Rated Voltage:** 300V **• Rated Current:** 8A **• Temperature:** -30°C/+105°C **• Flammability:** UL94V-O **• Color:** Green

Fig. 4



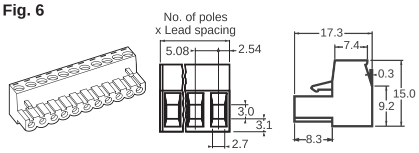
SPECIFICATIONS: **• Rated Voltage:** 300V **• Rated Current:** 8A **• Wire Size:** 28-16AWG **• Temperature:** -30°C/+105°C **• Flammability:** UL94V-0 **• Color:** Green

Fig. 5



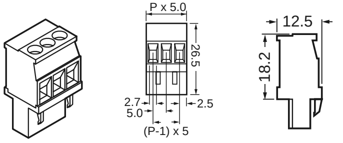
SPECIFICATIONS: **• Rated Voltage:** 300V **• Rated Current:** 8A **• Wire Size:** 28-16AWG **• Temperature:** -30°C/+105°C **• Flammability:** UL94V-0 **• Color:** Green

Fig. 6



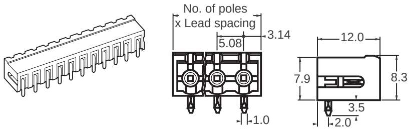
SPECIFICATIONS: **• Rated Voltage:** 300V **• Rated Current:** 15A **• Wire Size:** 22-12AWG **• Temperature:** -30°C/+105°C **• Flammability:** UL94V-0 **• Color:** Green

Fig. 7



SPECIFICATIONS: **• Rated Voltage:** 300V **• Rated Current:** 15A **• Wire Size:** 22-10AWG **• Temperature:** -30°C/+105°C **• Flammability:** UL94V-0 **• Color:** Green

Fig. 8



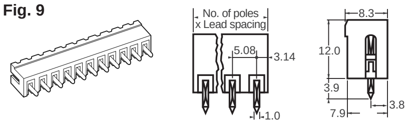
SPECIFICATIONS: **• Rated Voltage:** 300V **• Rated Current:** 15A **• Temperature:** -30°C/+105°C **• Flame Class:** UL 94 V-0 **• Color:** Green

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each		
				1	10	100
3.81mm Lead Spacing – Plugs						
1	2	8.41	ED1960-ND	1.15	1.04	.92
	3	12.22	ED1961-ND	1.73	1.56	1.38
	4	16.03	ED1962-ND	2.30	2.07	1.84
	5	19.84	ED1963-ND	2.88	2.59	2.30
	6	23.65	ED1964-ND	3.45	3.11	2.76
	7	27.46	ED1965-ND	4.03	3.63	3.22
	8	31.27	ED1966-ND	4.60	4.14	3.68
	9	35.08	ED1967-ND	5.18	4.66	4.14
	10	38.89	ED1968-ND	5.75	5.18	4.60
	11	42.70	ED1969-ND	6.33	5.70	5.06
	12	46.51	ED1970-ND	6.90	6.21	5.52
	14	54.13	ED1971-ND	8.05	7.25	6.44
	16	61.75	ED1972-ND	9.20	8.28	7.36
3.81mm Lead Spacing — Horiz. Header						
2	2	9.01	ED1934-ND	.50	.45	.40
	3	12.82	ED1935-ND	.75	.68	.60
	4	16.63	ED1936-ND	1.00	.90	.80
	5	20.44	ED1937-ND	1.25	1.13	1.00
	6	24.25	ED1938-ND	1.50	1.35	1.20
	7	28.06	ED1939-ND	1.75	1.58	1.40
	8	31.87	ED1940-ND	2.00	1.80	1.60
	9	35.68	ED1941-ND	2.25	2.03	1.80
	10	39.49	ED1942-ND	2.50	2.25	2.00
	11	43.30	ED1943-ND	2.75	2.48	2.20
	12	47.11	ED1944-ND	3.00	2.70	2.40
	14	54.73	ED1945-ND	3.50	3.15	2.80
	16	63.35	ED1946-ND	4.00	3.60	3.20
3.81mm Lead Spacing — Vert. Header						
3	2	9.01	ED1947-ND	.50	.45	.40
	3	12.82	ED1948-ND	.75	.68	.60
	4	16.63	ED1949-ND	1.00	.90	.80
	5	20.44	ED1950-ND	1.25	1.13	1.00
	6	24.25	ED1951-ND	1.50	1.35	1.20
	7	28.06	ED1952-ND	1.75	1.58	1.40
	8	31.87	ED1953-ND	2.00	1.80	1.60
	9	35.68	ED1954-ND	2.25	2.03	1.80
	10	39.49	ED1955-ND	2.50	2.25	2.00
	11	43.30	ED1956-ND	2.75	2.48	2.20
	12	47.11	ED1957-ND	3.00	2.70	2.40
	14	54.73	ED1958-ND	3.50	3.15	2.80
	16	63.35	ED1959-ND	4.00	3.60	3.20
3.81mm Lead Spacing — Plugs						
4	2	7.62	ED2454-ND	.90	.81	.72
	3	11.43	ED2455-ND	1.35	1.22	1.08
4	4	15.24	ED2456-ND	1.80	1.62	1.44
	5	19.05	ED2457-ND	2.25	2.03	1.80
	6	22.86	ED2458-ND	2.70	2.43	2.16
	7	26.67	ED2459-ND	3.15	2.84	2.52
	8	30.48	ED2460-ND	3.60	3.24	2.88
	9	34.29	ED2461-ND	4.05	3.65	3.24
	10	38.10	ED2462-ND	4.50	4.05	3.60
	12	45.72	ED2463-ND	5.40	4.86	4.32
	14	53.34	ED2464-ND	6.30	5.67	5.04
	16	60.96	ED2465-ND	7.20	6.48	5.76
3.81mm Lead Spacing — Plugs						
5	2	7.62	ED2466-ND	.90	.81	.72
	3	11.43	ED2467-ND	1.35	1.22	1.08
	4	15.24	ED2468-ND	1.80	1.62	1.44
	5	19.05	ED2469-ND	2.25	2.03	1.80
	6	22.86	ED2470-ND	2.70	2.43	2.16
	7	26.67	ED2471-ND	3.15	2.84	2.52
	8	30.48	ED2472-ND	3.60	3.24	2.88
	9	34.29	ED2473-ND	4.05	3.65	3.24
	10	38.10	ED2474-ND	4.50	4.05	3.60
	12	45.72	ED2475-ND	5.40	4.86	4.32
	14	53.34	ED2476-ND	6.30	5.67	5.04
	16	60.96	ED2477-ND	7.20	6.48	5.76
5mm Lead Spacing — Plugs						
6	2	10	ED1701-ND*	.93	.84	.73
	3	15	ED1702-ND*	1.40	1.25	1.10
	4	20	ED1703-ND*	1.60	1.44	1.28
	5	25	ED1704-ND*	2.00	1.80	1.60
	6	30	ED1705-ND*	2.40	2.16	1.92
	7	35	ED1706-ND*	2.80	2.52	2.24
	8	40	ED1707-ND*	3.20	2.88	2.56
	9	45	ED1708-ND*	3.60	3.24	2.88
	10	50	ED1709-ND*	4.00	3.60	3.20
	11	55	ED1710-ND*	4.40	3.96	3.52
	12	60	ED1711-ND*	4.80	4.32	3.84
	14	70	ED1712-ND*	5.60	5.04	4.48
	16	80	ED1713-ND*	6.40	5.76	5.12
	18	90	ED1714-ND*	7.20	6.48	5.76
	20	100	ED1715-ND*	8.00	7.20	6.40
	24	120	ED1716-ND*	9.60	8.64	7.68
5mm Lead Spacing — Plugs						
7	2	10	ED2376-ND	1.30	1.17	1.04
	3	15	ED2377-ND	1.95	1.76	1.56
	4	20	ED2378-ND	2.60	2.34	2.08
	5	25	ED2379-ND	3.25	2.93	2.60
	6	30	ED2380-ND	3.90	3.51	3.12
7	7	35	ED2381-ND	4.55	4.10	3.64
	8	40	ED2382-ND	5.20	4.68	4.16
	9	45	ED2383-ND	5.85	5.27	4.68
	10	50	ED2384-ND	6.50	5.85	5.20
	12	60	ED2385-ND	7.80	7.02	6.24
	14	70	ED2386-ND	9.10	8.19	7.28
	16	80	ED2387-ND	10.40	9.36	8.32
5mm Lead Spacing — Horiz. Headers						
8	2	10	ED1801-ND†	.34	.31	.27
	3	15	ED1802-ND†	.51	.46	.41
	4	20	ED1803-ND†	.68	.61	.54
	5	25	ED1804-ND†	.85	.77	.67
	6	30	ED1805-ND†	1.02	.92	.81
	7	35	ED1806-ND†	1.20	1.07	.94
	8	40	ED1807-ND†	1.37	1.22	1.08
	9	45	ED1808-ND†	1.54	1.38	1.21
	10	50	ED1809-ND†	1.71	1.53	1.34
	11	55	ED1810-ND†	1.88	1.68	1.48
	12	60	ED1811-ND†	2.05	1.83	1.61
	14	70	ED1812-ND†	2.39	2.14	1.88
	16	80	ED1813-ND†	2.73	2.44	2.15
	18	90	ED1814-ND†	3.07	2.75	2.41
	20	100	ED1815-ND†	3.42	3.05	2.68
	24	120	ED1816-ND†	4.10	3.66	3.22
5mm Lead Spacing — Vert. Headers ‡						
9	2	10	ED1833-ND†	.34	.31	.27
	3	15	ED1834-ND†	.51	.46	.41
	4	20	ED1835-ND†	.68	.61	.54
	5	25	ED1836-ND†	.85	.77	.67
	6	30	ED1837-ND†	1.02	.92	.81
	7	35	ED1838-ND†	1.20	1.07	.94
	8	40	ED1839-ND†	1.37	1.22	1.08
	9	45	ED1840-ND†	1.54	1.38	1.21
	10	50	ED1841-ND†	1.71	1.53	1.34
	11	55	ED1842-ND†	1.88	1.68	1.48
	12	60	ED1843-ND†	2.05	1.83	1.61
	14	70	ED1844-ND†	2.39	2.14	1.88
	16	80	ED1845-ND†	2.73	2.44	2.15
	18	90	ED1846-ND†	3.07	2.75	2.41
	20	100	ED1847-ND†	3.42	3.05	2.68
	24	120	ED1848-ND†	4.10	3.66	3.22
5.08mm Lead Spacing — Plugs						
6	2	10.16	ED1717-ND*	.93	.84	.73
	3	15.24	ED1718-ND*	1.40	1.25	1.10
	4	20.32	ED1719-ND*	1.87	1.67	1.46
	5	25.40	ED1720-ND*	2.34	2.08	1.83
6	6	30.48	ED1721-ND*	2.80	2.50	2.19
	7	35.56	ED1722-ND*	3.27	2.91	2.56
	8	40.64	ED1723-ND*	3.73	3.33	2.92
	9	45.72	ED1724-ND*	4.20	3.74	3.28
	10	50.80	ED1725-ND*	4.67	4.16	3.65
	11	55.88	ED1726-ND*	5.14	4.58	4.01
	12	60.96	ED1727-ND*	5.60	4.99	4.38
	14	71.12	ED1728-ND*	6.53	5.76	5.11
	16	81.28	ED1729-ND*	7.47	6.58	5.84
	18	91.44	ED1730-ND*	8.40	7.40	6.56
	20	101.60	ED1731-ND*	9.33	8.22	7.29
	24	121.92	ED1732-ND*	11.20	9.86	8.75
5.08mm Lead Spacing — Plugs						
10	2	20.32	ED2409-ND	1.25	1.13	1.00
	3	25.40	ED2410-ND	1.88	1.69	1.50
	4	30.48	ED2411-ND	2.50	2.25	2.00
	5	35.56	ED2412-ND	3.13	2.82	2.50
	6	40.64	ED2413-ND	3.75	3.38	3.00
	7	45.72	ED2414-ND	4.38	3.94	3.50
	8	50.80	ED2415-ND	5.00	4.50	4.00
	9	55.88	ED2416-ND	5.63	5.07	4.50
	10	60.96	ED2417-ND	6.25	5.63	5.00
5.08mm Lead Spacing — Horiz. Headers						
8	2	10.16	ED1817-ND†	.34	.31	.27
	3	15.24	ED1818-ND†	.51	.46	.41
	4	20.32	ED1819-ND†	.68	.61	.54
	5	25.40	ED1820-ND†	.85	.77	.67
	6	30.48	ED1821-ND†	1.02	.92	.81
	7	35.56	ED1822-ND†	1.20	1.07	.94
	8	40.64	ED1823-ND†	1.37	1.22	1.08
	9	45.72	ED1824-ND†	1.54	1.38	1.21
	10	50.80	ED1825-ND†	1.71	1.53	1.34
	11	55.88	ED1826-ND†	1.88	1.68	1.48
	12	60.96	ED1827-ND†	2.05	1.83	1.61
	14	71.12	ED1828-ND†	2.39	2.14	1.88
	16	81.28	ED1829-ND†	2.73	2.44	2.15
	18	91.44	ED1830-ND†	3.07	2.75	2.41
	20	101.60	ED1831-ND†	3.42	3.05	2.68
	24	121.92	ED1832-ND†	4.10	3.66	3.22
5.08mm Lead Spacing — Horiz. Headers						
11	2	20.32	ED2427-ND	1.50	1.35	1.20
	3	25.40	ED2428-ND	1.50	1.35	1.20
	4	30.48	ED2429-ND	2.00	1.80	1.60
	5	35.56	ED2430-ND	2.50	2.25	2.00

* Use Keying Star ED1901-ND † Use Keying Star ED1902-ND
‡ Drawing shows 5.08 pitch

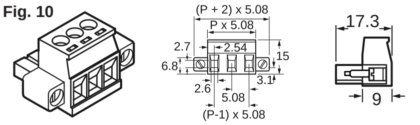
(Continued)

Fig. 9



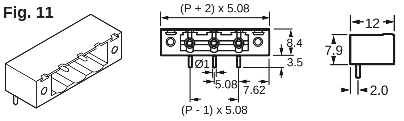
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 10



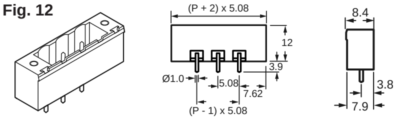
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 28-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 11



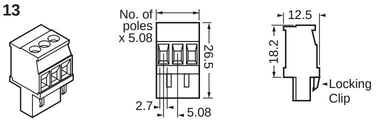
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 12



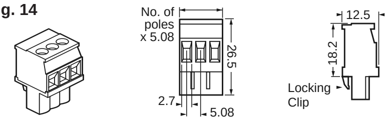
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 13



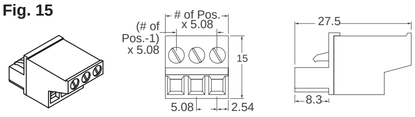
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 14



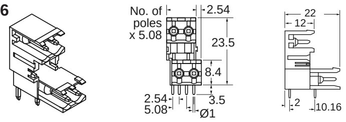
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 15



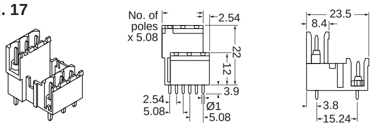
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 16



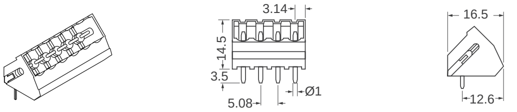
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 17



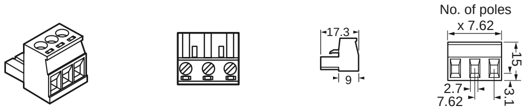
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** U 94V-0 • **Color:** Green

Fig. 18



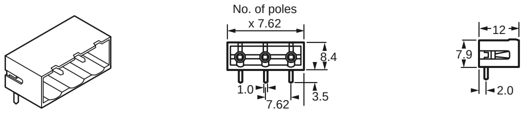
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 19



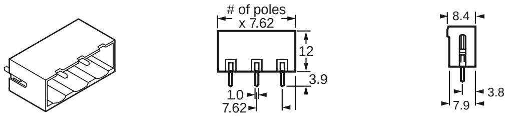
SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-O • **Color:** Green

Fig. 20



SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-O • **Color:** Green

Fig. 21



SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-O • **Color:** Green

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
11	6	40.64	ED2431-ND	3.00	2.70	2.40
	7	45.72	ED2432-ND	3.50	3.15	2.80
	8	50.80	ED2433-ND	4.00	3.60	3.20
	9	55.88	ED2434-ND	4.50	4.05	3.60
	10	60.96	ED2435-ND	5.00	4.50	4.00
5.08mm Lead Spacing — Vert. Headers						
9	2	10.16	ED1849-ND†	.34	.31	.27
	3	15.24	ED1850-ND†	.51	.46	.41
	4	20.32	ED1851-ND†	.68	.61	.54
	5	25.40	ED1852-ND†	.85	.77	.67
	6	30.48	ED1853-ND†	1.02	.92	.81
	7	35.56	ED1854-ND†	1.20	1.07	.94
	8	40.64	ED1855-ND†	1.37	1.22	1.08
	9	45.72	ED1856-ND†	1.54	1.38	1.21
	10	50.80	ED1857-ND†	1.71	1.53	1.34
	11	55.88	ED1858-ND†	1.88	1.68	1.48
	12	60.96	ED1859-ND†	2.05	1.83	1.61
	14	71.12	ED1860-ND†	2.39	2.14	1.88
	16	81.28	ED1861-ND†	2.73	2.44	2.15
	18	91.44	ED1862-ND†	3.07	2.75	2.41
	20	101.60	ED1863-ND†	3.42	3.05	2.68
	24	121.92	ED1864-ND†	4.10	3.66	3.22
5.08mm Lead Spacing — Vert. Headers						
12	2	20.32	ED2445-ND	1.50	1.35	1.20
	3	25.40	ED2446-ND	1.50	1.35	1.20
	4	30.48	ED2447-ND	2.00	1.80	1.60
	5	35.56	ED2448-ND	2.50	2.25	2.00
	6	40.64	ED2449-ND	3.00	2.70	2.40
	7	45.72	ED2450-ND	3.50	3.15	2.80
	8	50.80	ED2451-ND	4.00	3.60	3.20
	9	55.88	ED2452-ND	4.50	4.05	3.60
	10	60.96	ED2453-ND	5.00	4.50	4.00
5.08mm Lead Spacing — Vert. Plug						
13	2	10.16	ED1746-ND†	1.30	1.17	1.04
	3	15.24	ED1747-ND†	1.95	1.76	1.56
	4	20.32	ED1748-ND†	2.60	2.34	2.08
	5	25.40	ED1749-ND†	3.25	2.93	2.60
	6	30.48	ED1750-ND†	3.90	3.51	3.12
13	7	35.56	ED1751-ND†	4.55	4.10	3.64
	8	40.64	ED1752-ND†	5.20	4.68	4.16
	9	45.72	ED1753-ND†	5.85	5.27	4.68
	10	50.80	ED1754-ND†	6.50	5.85	5.20
	11	55.88	ED1755-ND†	7.15	6.44	5.72
	12	60.96	ED1756-ND†	7.80	7.02	6.24
	14	71.12	ED1757-ND†	9.10	8.19	7.28
	16	81.28	ED1758-ND†	10.40	9.36	8.32
5.08mm Lead Spacing — Vert. Plug						
14	2	10.16	ED1759-ND†	1.30	1.17	1.04
	3	15.24	ED1760-ND†	1.95	1.76	1.56
	4	20.32	ED1761-ND†	2.60	2.34	2.08
	5	25.40	ED1762-ND†	3.25	2.93	2.60
	6	30.48	ED1763-ND†	3.90	3.51	3.12
	7	35.56	ED1764-ND†	4.55	4.10	3.64
	8	40.64	ED1765-ND†	5.20	4.68	4.16
	9	45.72	ED1766-ND†	5.85	5.27	4.68
	10	50.80	ED1767-ND†	6.50	5.85	5.20
	11	55.88	ED1768-ND†	7.15	6.44	5.72
	12	60.96	ED1769-ND†	7.80	7.02	6.24
	14	71.12	ED1770-ND†	9.10	8.19	7.28
	16	81.28	ED1771-ND†	10.40	9.36	8.32
5.08mm Lead Spacing – Plugs						
15	2	5.08	ED1983-ND	2.00	1.80	1.60
	3	10.16	ED1984-ND	3.00	2.70	2.40
	4	15.24	ED1985-ND	4.00	3.60	3.20
	5	20.32	ED1986-ND	5.00	4.50	4.00
	6	25.40	ED1987-ND	6.00	5.40	4.80
	7	30.48	ED1988-ND	7.00	6.30	5.60
	8	35.56	ED1989-ND	8.00	7.20	6.40
	9	40.64	ED1990-ND	9.00	8.10	7.20
	10	45.72	ED1991-ND	10.00	9.00	8.00
	11	50.80	ED1992-ND	11.00	9.90	8.80
	12	55.88	ED1993-ND	12.00	10.80	9.60
	14	66.04	ED1994-ND	14.00	12.60	11.20
	16	76.20	ED1995-ND	16.00	14.40	12.80
	18	86.36	ED1996-ND	18.00	16.20	14.40
	20	96.52	ED1997-ND	20.00	18.00	16.00
	24	116.84	ED1998-ND	24.00	21.60	19.20
5.08mm Lead Spacing — Horiz. Headers						
16	4	5.08	ED1903-ND	1.50	1.35	1.20
	6	10.16	ED1904-ND	2.25	2.03	1.80
5.08mm Lead Spacing — Vert. Headers						
17	4	5.08	ED1905-ND	1.50	1.35	1.20
	6	10.16	ED1906-ND	2.25	2.03	1.80
5.08mm Lead Spacing — 45° Header						
18	2	5.08	ED1907-ND	.35	.32	.28
	3	10.16	ED1908-ND	.53	.48	.42
	4	15.24	ED1909-ND	.70	.63	.56
	5	20.32	ED1910-ND	.88	.79	.70
	6	25.40	ED1911-ND	1.05	.95	.84
	7	30.48	ED1912-ND	1.23	1.11	.98
	8	35.56	ED1913-ND	1.40	1.26	1.12
	9	40.64	ED1914-ND	1.58	1.42	1.26
	10	45.72	ED1915-ND	1.75	1.58	1.40
	11	50.80	ED1916-ND	1.93	1.74	1.54
	12	55.88	ED1917-ND	2.10	1.89	1.68
	13	60.96	ED1918-ND	2.28	2.05	1.82
	14	66.04	ED1919-ND	2.45	2.21	1.96
	15	71.12	ED1920-ND	2.63	2.37	2.10
	16	76.20	ED1921-ND	2.80	2.52	2.24
	17	81.28	ED1922-ND	2.98	2.68	2.38
	18	86.36	ED1923-ND	3.15	2.84	2.52
	19	91.44	ED1924-ND	3.33	3.00	2.66
	20	96.52	ED1925-ND	3.50	3.15	2.80
	21	101.60	ED1926-ND	3.68	3.31	2.94
	22	106.68	ED1927-ND	3.85	3.47	3.08
	23	111.76	ED1928-ND	4.03	3.63	3.22
	24	116.84	ED1929-ND	4.20	3.78	3.36
7.62mm Lead Spacing — Plugs						
19	2	15.24	ED1733-ND*	1.25	1.13	1.00
	3	22.86	ED1734-ND*	1.88	1.69	1.50
	4	30.48	ED1735-ND*	2.50	2.25	2.00
	5	38.10	ED1736-ND*	3.13	2.82	2.50
	6	45.72	ED1737-ND*	3.75	3.38	3.00
	7	53.34	ED1738-ND*	4.38	3.94	3.50
19	8	60.96	ED1739-ND*	5.00	4.50	4.00
	9	68.58	ED1740-ND*	5.63	5.07	4.50
	10	76.20	ED1741-ND*	6.25	5.63	5.00
	11	83.82	ED1742-ND*	6.88	6.19	5.50
	12	91.44	ED1743-ND*	7.50	6.75	6.00
	14	106.68	ED1744-ND*	8.75	7.88	7.00
	16	121.92	ED1745-ND*	10.00	9.00	8.00
7.62mm Lead Spacing — Horiz. Header						
20	2	15.24	ED1865-ND†	.45	.41	.36
	3	22.86	ED1866-ND†	.68	.61	.54
	4	30.48	ED1867-ND†	.90	.81	.72
	5	38.10	ED1868-ND†	1.13	1.02	.90
	6	45.72	ED1869-ND†	1.35	1.22	1.08
	7	53.34	ED1870-ND†	1.58	1.42	1.26
	8	60.96	ED1871-ND†	1.80	1.62	1.44
	9	68.58	ED1872-ND†	2.03	1.83	1.62
	10	76.20	ED1873-ND†	2.25	2.03	1.80
	11	83.82	ED1874-ND†	2.48	2.23	1.98
	12	91.44	ED1875-ND†	2.70	2.43	2.16
	14	106.68	ED1876-ND†	3.15	2.84	2.52
	16	121.92	ED1877-ND†	3.60	3.24	2.88
7.62mm Lead Spacing — Vert. Header						
21	2	15.24	ED1878-ND†	.45	.41	.36
	3	22.86	ED1879-ND†	.68	.61	.54
	4	30.48	ED1880-ND†	.90	.81	.72
	5	38.10	ED1881-ND†	1.13	1.02	.90
	6	45.72	ED1882-ND†	1.35	1.22	1.08
	7	53.34	ED1883-ND†	1.58	1.42	1.26
	8	60.96	ED1884-ND†	1.80	1.62	1.44
	9	68.58	ED1885-ND†	2.03	1.83	1.62
	10	76.20	ED1886-ND†	2.25	2.03	1.80
	11	83.82	ED1887-ND†	2.48	2.23	1.98
	12	91.44	ED1888-ND†	2.70	2.43	2.16
	14	106.68	ED1890-ND†	3.15	2.84	2.52
	16	121.92	ED1891-ND†	3.60	3.24	2.88
Keying Star			ED1901-ND	.70	.63	.56
Keying Star			ED1902-ND	.70	.63	.56

* Use Keying Star ED1901-ND † Use Keying Star ED1902-ND

ON-SHORE TECHNOLOGY, INC.

Pluggable Terminal Blocks and Pin Headers

• **Recommended Hole Diameter in Printed Circuit Board:** 1.5mm • **Spacing:** 5mm • **Rated Voltage:** 300V • **Rated Current:** 10A • **Rated Temperature:** -30°C/+105°C • **Flame Class:** 94V-0 • **Rated Cross Section:** 1.5mm² • **Terminal Plating:** tin • **Resistance to Tracking:** KB380 • **Wire Guard Material:** BeCu • **Wire Size:** 22-14AWG

Fig. 1

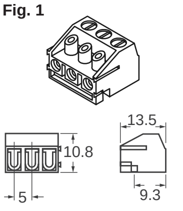
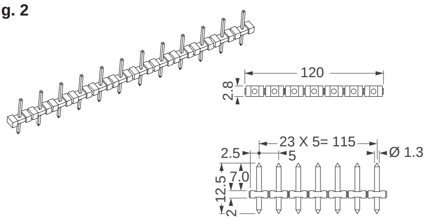


Fig. 2



No. of Pos.	Digi-Key Part No.	Pricing 1	10	100
Fig.1 – Pluggable Terminal Blocks				
2	ED1613-ND	.62	5.56	49.40
3	ED1614-ND	.93	8.33	74.00
4	ED2214-ND	1.24	11.16	99.20
5	ED2215-ND	1.55	13.95	124.00
6	ED2216-ND	1.86	16.74	148.80
7	ED2217-ND	2.17	19.53	173.60
10	ED2218-ND	3.10	27.90	248.00
12	ED2219-ND	3.72	33.48	297.60
Fig.2 – Pin Headers				
2	ED1660-ND	.28	2.50	22.25
3	ED1661-ND	.31	2.77	24.58
4	ED1662-ND	.34	3.06	27.16
5	ED1663-ND	.38	3.38	30.02
6	ED1664-ND	.41	3.73	33.17
7	ED1665-ND	.46	4.12	36.65

No. of Pos.	Digi-Key Part No.	Pricing 1	10	100
8	ED1666-ND	.51	4.56	40.50
9	ED1667-ND	.56	5.03	44.75
10	ED1668-ND	.62	5.56	49.44
11	ED1669-ND	.68	6.15	54.63
12	ED1670-ND	.75	6.79	60.37
13	ED1671-ND	.83	7.50	66.71
14	ED1672-ND	.92	8.29	73.71
15	ED1673-ND	1.02	9.16	81.45
16	ED1674-ND	1.12	10.12	90.00
17	ED1675-ND	1.24	11.19	99.44
18	ED1676-ND	1.37	12.36	109.88
19	ED1677-ND	1.52	13.66	121.42
20	ED1678-ND	1.68	15.09	134.16
21	ED1679-ND	1.85	16.68	148.24
22	ED1680-ND	2.05	18.43	163.81
23	ED1681-ND	2.26	20.36	181.00
24	ED1682-ND	2.50	22.50	200.00

Terminal Blocks

UL# E101811, 86ME2081 CSA# 068503X0000

SPECIFICATIONS:
• **Rated Current:** 16A • **Insulator:** PA 6 GV/PBTP • **Temperature Range:** -30°C to +105°C • **Flame Class:** 94V-0

Fig. 1
Cable Inlet: Front

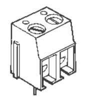


Fig. 2
Cable Inlet: Top

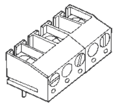


Fig. 3
Cable Inlet: 45°

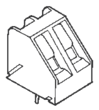
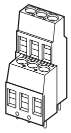


Fig. 4
Double Terminal Block



These On-Shore Technology Terminal Blocks are Stackable for any number of contacts. 4.5mm Lead Length.

Fig.	No. Of Pos.	Lead Spacing (mm)	Rated Volt. (V-) VDE 0110	Terminal Plating	Block Length (mm)	Digi-Key Part No.	Pricing 1	10	100
1	2	5.0	250	Nickel	10	ED1631-ND	.65	5.85	52.00
	2	5.08	300	Tin	10.16	ED1643-ND	.55	4.95	44.00
	2	7.5	380	Tin	15	ED1605-ND	.53	4.73	42.00
	2	10.0	500	Tin	15	ED1615-ND	.53	4.73	42.00
	2	10.0	250	Tin	15	ED1627-ND	.53	4.73	42.00
	2	10.0	500	Nickel	15	ED1633-ND	.80	7.20	64.00
1	3	5.0	250	Nickel	15	ED1632-ND	.98	8.78	78.00
	3	5.08	300	Tin	15.24	ED1644-ND	.83	7.43	66.00
	3	7.5	380	Tin	22.5	ED1606-ND	.79	7.09	63.00
	3	10.0	500	Tin	25	ED1616-ND	.79	7.09	63.00
	3	10.0	250	Tin	25	ED1628-ND	.79	7.09	63.00
	3	10.0	500	Nickel	25	ED1634-ND	1.20	10.80	96.00
2	2	5.0	250	Tin	10	ED1603-ND	.53	4.73	42.00
	2	5.0	125	Tin	10	ED1625-ND	.53	4.73	42.00
	2	5.08	250	Tin	10.16	ED1611-ND	.53	4.73	42.00

Fig.	No. Of Pos.	Lead Spacing (mm)	Rated Volt. (V-) VDE 0110	Terminal Plating	Block Length (mm)	Digi-Key Part No.	Pricing 1	10	100
2	2	7.5	380	Tin	15	ED1607-ND	.60	5.40	48.00
	2	10.0	250	Tin	15	ED1617-ND	.60	5.40	48.00
	2	10.0	250	Tin	15	ED1629-ND	.60	5.40	48.00
2	3	5.0	250	Tin	15	ED1604-ND	.79	7.09	63.00
	3	5.0	125	Tin	15	ED1626-ND	.79	7.09	63.00
	3	5.08	250	Tin	15.25	ED1612-ND	.79	7.09	63.00
	3	7.5	380	Tin	22.5	ED1608-ND	.90	8.10	72.00
	3	10.0	250	Tin	25	ED1618-ND	.90	8.10	72.00
	3	10.0	250	Tin	25	ED1630-ND	.90	8.10	72.00
3	2	5.0	250	Nickel	10	ED1619-ND	.59	5.27	46.80
	2	10.0	250	Nickel	15	ED1621-ND	.75	6.75	60.00
3	3	5.0	250	Nickel	15	ED1620-ND	.88	7.88	70.00
	3	10.0	250	Nickel	25	ED1622-ND	1.13	10.13	90.00
4	2	5.0	300	Tin	10	ED1653-ND	1.28	11.48	102.00
4	3	5.0	300	Tin	15	ED1654-ND	1.91	17.21	153.00

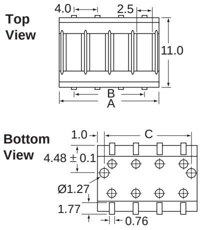
BOURNS INC

70AD Modular Contacts

The **Model 70AD Modular Contact** is a low profile modular design connector that makes a high integrity, yet quickly removable connection. **Applications:** Rechargeable batteries and battery packs, battery chargers, cellular and portable phones, two-way radios, laptop computers, etc. **Materials and Finishes: Insulator:** Glass reinforced thermoplastic; UL 94V-0 rated, black **Contact:** Copper alloy **Finish Underplating:** Nickel **Finish Contact Area:** 30µ in. Au over Ni (male), Precious metal (female) **Finish Termination:** Tin alloy (meets MIL-STD202, method 208) **Electrical Operating Characteristics: Current Rating:** DC 3A/contact **Voltage Rating:** DC 30V (male) **Contact Resistance:** 25mΩ max **Dielectric Voltage:** AC 500V **Insulating Resistance:** 400MΩ min. (male), 500MΩ min. (female) **Operating Temperature:** -55°C to 125°C **Mechanical Characteristics: Normal Force:** 100 grams min. (male) **Durability:** 5,000 cycles

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	100	Bourns Part No.
Female SMT							
1	2	70ADJ-2-F-ND	1.23	.98	.76	.72	70ADJ-2-FL0
	3	70ADJ-3-F-ND	1.45	1.16	.90	.85	70ADJ-3-FL0
	4	70ADJ-4-F-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL0
	5	70ADJ-5-F-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL0
	6	70ADJ-6-F-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL0
Female SMT with Locator Pin							
1	2	70ADJ-2-F1-ND	1.23	.98	.76	.72	70ADJ-2-FL1
	3	70ADJ-3-F1-ND	1.45	1.16	.90	.85	70ADJ-3-FL1
	4	70ADJ-4-F1-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL1
	5	70ADJ-5-F1-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL1
	6	70ADJ-6-F1-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL1
Female Through-Hole							
2	2	70ADH-2-F-ND	1.23	.98	.76	.72	70ADH-2-FL0
	3	70ADH-3-F-ND	1.45	1.16	.90	.85	70ADH-3-FL0
	4	70ADH-4-F-ND	1.83	1.46	1.13	1.06	70ADH-4-FL0
	5	70ADH-5-F-ND	2.18	1.74	1.34	1.27	70ADH-5-FL0
	6	70ADH-6-F-ND	2.55	2.04	1.57	1.48	70ADH-6-FL0
Male SMT							
3	2	70ADJ-2-M-ND	1.30	1.04	.80	.76	70ADJ-2-ML0
	3	70ADJ-3-M-ND	1.63	1.30	1.00	.95	70ADJ-3-ML0
	4	70ADJ-4-M-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML0
	5	70ADJ-5-M-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML0
	6	70ADJ-6-M-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML0
Male SMT with Locator Pin							
3	2	70ADJ-2-M1-ND	1.30	1.04	.80	.76	70ADJ-2-ML1
	3	70ADJ-3-M1-ND	1.63	1.30	1.00	.95	70ADJ-3-ML1
	4	70ADJ-4-M1-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML1
	5	70ADJ-5-M1-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML1
	6	70ADJ-6-M1-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML1
Male Through-Hole							
4	2	70ADH-2-M-ND	1.30	1.04	.80	.76	70ADH-2-ML0
	3	70ADH-3-M-ND	1.63	1.30	1.00	.95	70ADH-3-ML0
	4	70ADH-4-M-ND	2.03	1.62	1.25	1.18	70ADH-4-ML0
	5	70ADH-5-M-ND	2.45	1.96	1.51	1.43	70ADH-5-ML0
	6	70ADH-6-M-ND	2.85	2.28	1.76	1.66	70ADH-6-ML0

Female Modular Contact



No. of Contacts	Dim. (mm) A	B	C
2	9.0	4.0	7.0
3	13.0	8.0	11.0
4	17.0	12.0	15.0
5	21.0	16.0	19.0
6	25.0	20.0	23.0

Fig. 1 - Female Surface Mount

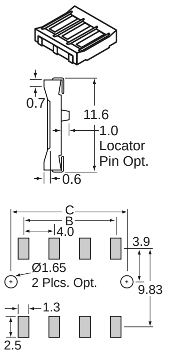
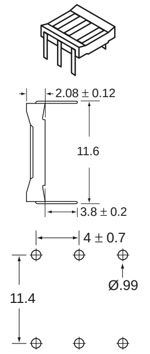
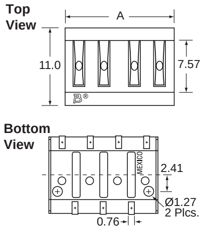


Fig. 2 - Female Through Hole



Male Modular Contact



No. of Contacts	Dim. (mm) A	B
2	7.7	5.11
3	11.7	9.11
4	15.7	13.11
5	19.7	17.11
6	23.7	21.11

Fig. 3 - Male Surface Mount

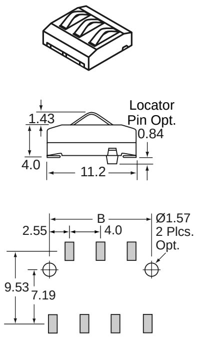
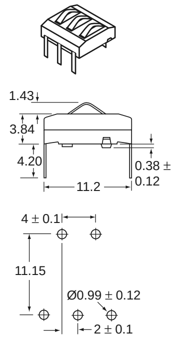


Fig. 4 - Male Through Hole



American Electrical Inc.

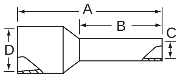
Crimp Wire Ferrules

For Use with European Style Terminal Blocks

CE

Wire Ferrules – Insulated

Material: Copper/Plastic. Surface: Tin-plated.



Size mm^2	AWG	Type	Color Code	Dimensions (mm)				Digi-Key Part No.	Pricing			AE Part No.
				A	B	C	D		10	50	100	
0.14	26	DIN	Gray	10.5	6	0.8	2.0	288-1001-ND*	2.32	10.15	17.40	1161014
				12.5	8	0.8	2.0	288-1002-ND*	2.48	10.85	18.60	1181014
		W	Gray	10.5	6	0.8	2.0	288-1039-ND*	2.32	10.15	17.40	1162014
				12.5	8	0.8	2.0	288-1040-ND*	2.48	10.85	18.60	1182014
0.25	24	DIN	Yellow	10.5	6	0.8	2.0	288-1003-ND*	2.32	10.15	17.40	11610025
				12.5	8	0.8	2.0	288-1004-ND*	2.48	10.85	18.60	11810025
		W	Blue	10.5	6	0.8	2.0	288-1041-ND*	2.32	10.15	17.40	11620025
				12.5	8	0.8	2.0	288-1042-ND*	2.48	10.85	18.60	11820025
0.34	22	DIN	Turquoise	10.5	6	0.8	2.0	288-1005-ND*	2.32	10.15	17.40	1161034
				12.5	8	0.8	2.0	288-1006-ND*	2.48	10.85	18.60	1181034
		W	Turquoise	10.5	6	0.8	2.0	288-1043-ND*	2.32	10.15	17.40	1162034
				12.5	8	0.8	2.0	288-1044-ND*	2.48	10.85	18.60	1182034
0.50	20	DIN	White	11.5	6	1.1	2.5	288-1007-ND	1.68	7.35	12.60	1161050
				13.5	8	1.1	2.5	288-1008-ND	1.20	5.25	9.00	1181050
				15.5	10	1.1	2.5	288-1009-ND	1.68	7.35	12.60	11101050
		W	Orange	11.5	6	1.1	2.5	288-1045-ND	1.68	7.35	12.60	1162050
				13.5	8	1.1	2.5	288-1046-ND	1.20	5.25	9.00	1182050
				15.5	10	1.1	2.5	288-1047-ND	1.68	7.35	12.60	11102050
0.75	20	DIN	Gray	12.0	6	1.3	2.8	288-1010-ND	1.76	7.70	13.20	1161075
				14.0	8	1.3	2.8	288-1011-ND	1.20	5.25	9.00	1181075
				16.0	10	1.3	2.8	288-1012-ND	1.76	7.70	13.20	11101075
				18.0	12	1.3	2.8	288-1013-ND	1.76	7.70	13.20	11121075
		W	White	12.0	6	1.3	2.8	288-1048-ND	1.76	7.70	13.20	1162075
				14.0	8	1.3	2.8	288-1049-ND	1.20	5.25	9.00	1182075
				16.0	10	1.3	2.8	288-1050-ND	1.76	7.70	13.20	11102075
				18.0	12	1.3	2.8	288-1051-ND	1.76	7.70	13.20	11122075
1.00	18	DIN	Red	12.5	6	1.5	3.0	288-1014-ND	2.00	8.75	15.00	1161010
				14.5	8	1.5	3.0	288-1015-ND	1.28	5.60	9.60	1181010
				16.5	10	1.5	3.0	288-1016-ND	2.00	8.75	15.00	11101010
				18.5	12	1.5	3.0	288-1017-ND	2.00	8.75	15.00	11121010
		W	Yellow	12.5	6	1.5	3.0	288-1052-ND	2.00	8.75	15.00	1162010
				14.5	8	1.5	3.0	288-1053-ND	1.28	5.60	9.60	1182010
				16.5	10	1.5	3.0	288-1054-ND	2.00	8.75	15.00	11102010
				18.5	12	1.5	3.0	288-1055-ND	2.00	8.75	15.00	11122010
1.50	16	DIN	Black	12.5	6	1.8	3.4	288-1018-ND*	2.80	12.25	21.00	1161015
				14.5	8	1.8	3.4	288-1019-ND	1.76	7.70	13.20	1181015
				16.5	10	1.8	3.4	288-1020-ND	2.80	12.25	21.00	11101015
				18.5	12	1.8	3.4	288-1021-ND	2.80	12.25	21.00	11121015
				24.5	18	1.8	3.4	288-1022-ND	2.80	12.25	21.00	11181015
		W	Red	12.5	6	1.8	3.4	288-1056-ND*	2.80	12.25	21.00	1162015
				14.5	8	1.8	3.4	288-1057-ND	1.76	7.70	13.20	1182015
				16.5	10	1.8	3.4	288-1058-ND	2.80	12.25	21.00	11102015
				18.5	12	1.8	3.4	288-1059-ND	2.80	12.25	21.00	11122015
				24.5	18	1.8	3.4	288-1060-ND	2.80	12.25	21.00	11182015
2.08	14	DIN	Yellow	14.5	8	2.05	3.6	288-1023-ND*	2.20	9.63	16.50	1181208
		W	Yellow	14.5	8	2.05	3.6	288-1061-ND*	2.20	9.63	16.50	1182208
2.50	14	DIN	Blue	15.0	8	2.3	4.2	288-1024-ND	1.76	7.70	13.20	1181025
				19.0	12	2.3	4.2	288-1025-ND	2.40	10.50	18.00	11121025
				25.0	18	2.3	4.2	288-1026-ND	3.20	14.00	24.00	11181025
		W	Blue	15.0	8	2.3	4.2	288-1062-ND	1.76	7.70	13.20	1182025
				19.0	12	2.3	4.2	288-1063-ND	2.40	10.50	18.00	11122025
				25.0	18	2.3	4.2	288-1064-ND	3.20	14.00	24.00	11182025
4.00	12	DIN	Gray	17.5	10	2.9	4.8	288-1027-ND	2.88	12.60	21.60	11101040
				20.0	12	2.9	4.8	288-1028-ND	2.88	12.60	21.60	11121040
				26.0	18	2.9	4.8	288-1029-ND	3.68	13.80	18.40	11181040
		W	Gray	17.5	10	2.9	4.8	288-1065-ND	2.88	10.80	14.40	11102040
				20.0	12	2.9	4.8	288-1066-ND	2.88	10.80	14.40	11122040
				26.0	18	2.9	4.8	288-1067-ND	3.68	13.80	18.40	11182040
6.00	10	DIN	Yellow	20.0	12	3.6	6.2	288-1030-ND	3.80	14.25	19.00	11121060
				25.0	18	3.6	6.2	288-1031-ND	4.40	16.50	22.00	11181060
		W	Black	20.0	12	3.6	6.2	288-1068-ND	3.80	14.25	19.00	11122060
				25.0	18	3.6	6.2	288-1069-ND	4.40	16.50	22.00	11182060
10.00	8	DIN	Red	21.0	12	4.6	7.5	288-1032-ND	3.80	14.25	19.00	11121100
				27.0	18	4.6	7.5	288-1033-ND	6.40	24.00	32.00	11181100
		W	Ivory	21.0	12	4.6	7.5	288-1070-ND	3.80	14.25	19.00	11122100
				27.0	18	4.6	7.5	288-1071-ND	6.40	24.00	32.00	11182100
16.00	6	DIN	Blue	23.0	12	6.0	8.8	288-1034-ND	5.20	19.50	26.00	11121160
				29.0	18	6.0	8.8	288-1035-ND	8.00	30.00	40.00	11181160
		W	Green	23.0	12	6.0	8.8	288-1072-ND	5.20	19.50	26.00	11122160
				29.0	18	6.0	8.8	288-1073-ND	8.00	30.00	40.00	11182160
25.00	4	DIN	Yellow	29.0	16	7.5	11.0	288-1036-ND	13.20	49.50	66.00	11161250
				31.0	18	7.5	11.0	288-1037-ND	13.20	49.50	66.00	11181250
				35.0	22	7.5	11.0	288-1038-ND	18.00	67.50	90.00	11221250
		W	Brown	29.0	16	7.5	11.0	288-1074-ND	13.20	49.50	66.00	11162250
				31.0	18	7.5	11.0	288-1075-ND	13.20	49.50	66.00	11182250
				35.0	22	7.5	11.0	288-1076-ND	18.00	67.50	90.00	11222250

* Does not conform to DIN 46228 Part 4

Assortment Boxes

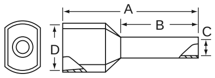
Assortment Box 1	Assortment Box 2	Assortment Box 3
150 pieces	**400 pieces**	**100 pieces**
(30 pieces each of sizes 0.25, 0.34, 0.50, 0.75, and 1.00)	(50 pieces each of sizes 0.50 and 2.50; 100 pieces each of sizes 0.75, 1.00, and 1.50)	(50 pieces each of size 4.00; 20 pieces each of sizes 6.00 and 10.00, 10 pieces of size 16.00)
DIN Type	**DIN Type**	**DIN Type**
288-1147-ND **$50.00**	288-1148-ND **$75.00**	288-1149-ND **$62.50**
W Type	**W Type**	**W Type**
288-1153-ND **$50.00**	288-1154-ND **$75.00**	288-1155-ND **$62.50**

Crimp Tools

288-1163-ND	Prototype Tool For 10-22 AWG Ferrules (AE Part # Trap 22-10)	**$43.73**
288-1158-ND	For 10-24 AWG Ferrules (AE Part # TRAP 24-10)	**$175.00**
288-1159-ND	For 4-8 AWG Ferrules (AE Part #. TRAP 8-4)	**$188.46**
288-1161-ND	For 10-28 AWG Ferrules (AE Part # SQ 28-10)	**$210.00**
288-1162-ND	For 8-12 AWG Ferrules (AE Part # TRAP 12-8 TW)	**$250.72**

Twin-Wire Ferrules for Two Wires

Material: Copper/Plastic.
Surface: Tin-plated.



Size mm^2	AWG	Color	Dimensions (mm)				Digi-Key Part No.	Pricing			AE Part No.
			A	B	C	D		10	50	100	
2 x 0.50	2 x 20	White	15.0	8.0	1.5	2.3 / 4.5	288-1124-ND	1.60	7.00	12.00	1381050
2 x 0.75	2 x 20	Gray	15.0	8.0	1.8	2.6 / 5.1	288-1125-ND	1.60	7.00	12.00	1381075
2 x 0.75	2 x 20	Gray	17.0	10.0	1.8	2.6 / 5.1	288-1126-ND	2.04	8.93	15.30	13101075
2 x 1.00	2 x 18	Red	15.0	8.0	2.05	3.2 / 5.1	288-1127-ND	1.88	8.23	14.10	1381010
2 x 1.00	2 x 18	Red	17.0	10.0	2.05	3.2 / 5.1	288-1128-ND	2.60	11.38	19.50	13101010
2 x 1.50	2 x 16	Black	16.0	8.0	2.3	3.5 / 6.4	288-1129-ND	2.24	9.80	16.80	1381015
2 x 1.50	2 x 16	Black	20.0	12.0	2.3	3.5 / 6.4	288-1130-ND	3.20	14.00	24.00	13121015
2 x 2.50	2 x 14	Blue	18.5	10.0	2.9	4.0 / 7.5	288-1131-ND	3.20	14.00	24.00	13101025
2 x 2.50	2 x 14	Blue	21.5	13.0	2.9	4.0 / 7.5	288-1132-ND	3.20	14.00	24.00	13131025
2 x 4.00	2 x 12	Gray	23.0	12.0	3.8	4.9 / 8.6	288-1133-ND	5.80	21.75	29.00	13121040
2 x 6.00	2 x 10	Yellow	25.0	14.0	4.9	5.8 / 9.6	288-1134-ND	6.20	23.25	31.00	13141060
2 x 10.0	2 x 8	Red	26.0	14.0	6.5	7.0 / 12.6	288-1135-ND	7.60	28.50	38.00	13141100
2 x 16.0	2 x 6	Blue	31.0	16.0	8.5	8.8 / 16.6	288-1136-ND	20.00	87.50	150.00	13161160

Assortment Boxes

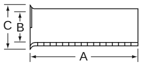
288-1150-ND	**Asst. Box 4 — 200 pieces** (50 pieces each of sizes 0.50, 0.75, 1.00, 1.50)	**$50.00**
288-1151-ND	**Asst. Box 5 — 200 pieces** (50 pieces each of sizes 0.50, 1.00, 1.50, 2.50)	**$55.00**
288-1152-ND	**Asst. Box 6 — 90 pieces** (30 pieces each of sizes 1.50 and 2.50, 20 pieces of size 4.00, 10 pieces of size 6.00)	**$62.50**

Wire Ferrules on Strips

Size mm^2	AWG	Type	Color Code	Digi-Key Part No.	Pricing 10	Pricing 50	Pricing 100	AE Part No.
0.50	20	DIN	White	288-1142-ND	1.50	6.56	11.25	101050
		W	Orange	288-1137-ND	1.50	6.56	11.25	102050
0.75	20	DIN	Gray	288-1143-ND	1.50	6.56	11.25	101075
		W	White	288-1138-ND	1.50	6.56	11.25	102075
1.00	18	DIN	Red	288-1144-ND	1.60	7.00	12.00	101100
		W	Yellow	288-1139-ND	1.60	7.00	12.00	102100
1.50	16	DIN	Black	288-1145-ND	2.20	9.63	16.50	101150
		W	Red	288-1140-ND	2.20	9.63	16.50	102150
2.50	14	DIN	Blue	288-1146-ND	2.20	9.63	16.50	101250
		W	Blue	288-1141-ND	2.20	9.63	16.50	102250

Wire Ferrules – Non-Insulated

Material: Copper. Surface: Tin-plated.



Size mm^2	AWG	Dimensions (mm)			Digi-Key Part No.	Pricing			AE Part No.
		A	B	C		10	50	100	
0.25	24	5	0.8	1.7	288-1077-ND*	.60	2.63	4.50	12510025
		7	0.8	1.7	288-1078-ND*	.60	2.63	4.50	12710025
0.34	22	5	0.9	1.8	288-1079-ND*	.64	2.80	4.80	12510034
		7	0.9	1.8	288-1080-ND*	.64	2.80	4.80	12710034
0.50	20	6	1.0	2.1	288-1081-ND	.68	2.98	5.10	12610050
		8	1.0	2.1	288-1082-ND*	.72	3.15	5.40	12810050
		10	1.0	2.1	288-1083-ND	.72	3.15	5.40	121010050
0.75	20	6	1.2	2.3	288-1084-ND	.84	3.68	6.30	12610075
		8	1.2	2.3	288-1085-ND*	.84	3.68	6.30	12810075
		10	1.2	2.3	288-1086-ND	.88	3.85	6.60	121010075
		12	1.2	2.3	288-1087-ND	.96	4.20	7.20	121210075
1.00	18	6	1.4	2.5	288-1088-ND	.88	3.85	6.60	12610100
		7	1.4	2.5	288-1089-ND	.88	3.85	6.60	12710100
		8	1.4	2.5	288-1090-ND*	.88	3.85	6.60	12810100
		10	1.4	2.5	288-1091-ND	.88	3.85	6.60	121010100
		12	1.4	2.5	288-1092-ND*	1.00	4.38	7.50	121210100
1.50	16	7	1.7	2.8	288-1093-ND	.92	4.03	6.90	12710150
		8	1.7	2.8	288-1094-ND	.92	4.03	6.90	12810150
		10	1.7	2.8	288-1095-ND	.96	4.20	7.20	121010150
		12	1.7	2.8	288-1096-ND	1.08	4.73	8.10	121210150
		15	1.7	2.8	288-1097-ND*	1.08	4.73	8.10	121510150
		18	1.7	2.8	288-1098-ND	1.12	4.90	8.40	121810150
2.50	14	7	2.2	3.4	288-1099-ND	1.16	5.08	8.70	12710250
		8	2.2	3.4	288-1100-ND	1.16	5.08	8.70	12810250
		10	2.2	3.4	288-1101-ND	1.16	5.08	8.70	121010250
		12	2.2	3.4	288-1102-ND	1.16	5.08	8.70	121210250
		15	2.2	3.4	288-1103-ND*	1.28	5.60	9.60	121510250
		18	2.2	3.4	288-1104-ND	1.28	5.60	9.60	121810250
4.00	12	9	2.8	4.0	288-1105-ND	1.12	4.90	8.40	12910400
		10	2.8	4.0	288-1106-ND	1.12	4.90	8.40	121010400
		12	2.8	4.0	288-1107-ND	1.00	4.38	7.50	121210400
		15	2.8	4.0	288-1108-ND	1.28	5.60	9.60	121510400
		18	2.8	4.0	288-1109-ND	1.32	5.78	9.90	121810400
6.00	10	10	3.5	4.7	288-1110-ND	2.24	9.80	16.80	121010600
		12	3.5	4.7	288-1111-ND	2.24	9.80	16.80	121210600
		15	3.5	4.7	288-1112-ND	2.40	10.50	18.00	121510600
		18	3.5	4.7	288-1113-ND	2.40	10.50	18.00	121810600
10.00	8	12	4.5	5.8	288-1114-ND	2.00	8.75	15.00	1212110
		15	4.5	5.8	288-1115-ND	2.00	8.75	15.00	1215110
		18	4.5	5.8	288-1116-ND	2.40	10.50	18.00	1218110
		20	4.5	5.8	288-1117-ND*	2.40	10.50	18.00	1220110
16.00	6	12	5.8	7.5	288-1118-ND	2.88	12.60	21.60	1212116
		15	5.8	7.5	288-1119-ND	2.88	12.60	21.60	1215116
		18	5.8	7.5	288-1120-ND	2.88	12.60	21.60	1218116
25.00	4	12	7.3	9.5	288-1121-ND*	10.40	45.50	78.00	1212125
		15	7.3	9.5	288-1122-ND	10.40	45.50	78.00	1215125
		18	7.3	9.5	288-1123-ND	10.40	45.50	78.00	1218125

* Does not conform to DIN 46228 Part 1

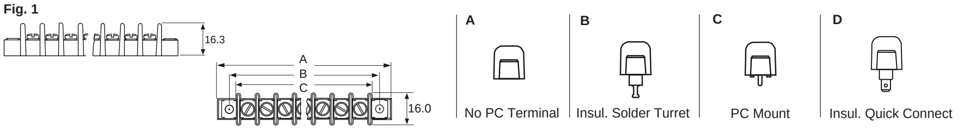
Assortment Boxes

288-1156-ND	**Assortment Box 7 — 1,800 pieces** (500 pieces of size 0.50; 400 pieces each of sizes 0.75 and 1.00; 300 pieces of size 1.50; 200 pieces of Size 2.50)	**$87.50**
288-1157-ND	**Assortment Box 8 — 370 pieces** (150 pieces of size 4.00; 100 pieces of size 6.00; 80 pieces of size 10.00; 40 pieces of size 16.00)	**$75.00**

molex Waldom ELECTRONICS BEAU

Barrier Terminal Blocks

Fig. 1



A No PC Terminal

B Insul. Solder Turret

C PC Mount

D Insul. Quick Connect

Fig. 2

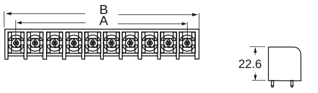


Fig. 3

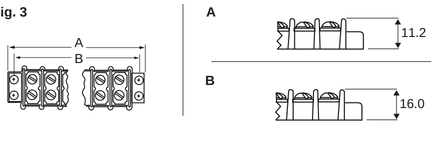


Fig. 4

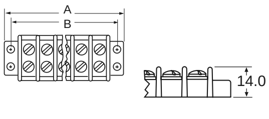


Fig. 5

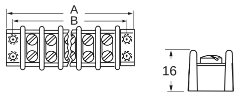
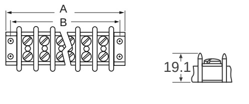


Fig. 6



.375" PCB Single Barrier Terminal Strip
Ratings: #6-32 Binding Head Screw: UL: Class B - 15Amps @ 300V 14AWG. Class C - 15 Amps @ 150V 14AWG. CSA: Class B & C - 20 Amps @ 300V 14AWG, Mechanical: Torque - 12 in-lbs. Strip length - 5/16". Wire range - 12 to 24AWG, Materials: Insulator: Thermoplastic, UL94V-0, black. Terminal: Brass, tin-lead plate. Screws: #6-32, phillips/slotted, steel, zinc chromate plate

Tri-Barrier and Double Row Barrier Terminal Strips
PCB Tri-Barrier Terminal Strip, 600V
Ratings: M4 Wire Clamp Screw: UL & CSA: Class B & C: 45 Amps @ 600V 8 AWG Mechanical: Torque - 16 in-lbs. Wire Range: 8 to 18 AWG Strip length - 5/16" Insulator : Thermoplastic, UL94V-0, black. Terminal: High copper brass, tin-lead plate. Screws: M4, steel, zinc chromate plate with clamp washer. UL File No. E48521, CSA File No. 025562 for all the Tri-Barrier, Double Row and Single Row

.375" Double Row Low Profile Barrier Terminal Strip
Ratings: #6-32 Binding Head Screw: UL: Class B - 15Amps @ 300V 14 AWG, Class C - 15Amps @ 150V 14 AWG. CSA: Class B & C - 20 Amps @ 150V 14AWG Mechanical: Torque - 8in-lbs. Strip length - 5/16" Wire range - 12 to 24 AWG Insulator: Thermoplastic, UL94V0, black. Terminal: Brass, nickel plate. Screws: #6-32, phillips/slotted, steel, zinc chromate plate

Fig.	No. of Contacts	Dim.– Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
.375" Single Row, PCB Barrier Terminal Strip									
1A	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5720-ND	1.74	1.54	1.03	38720-0202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5721-ND	2.26	2.00	1.33	38720-0203
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5722-ND	2.58	2.28	1.52	38720-0204
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5723-ND	3.16	2.79	1.86	38720-0205
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5724-ND	3.55	3.13	2.09	38720-0206
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5725-ND	4.51	3.99	2.66	38720-0208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5726-ND	5.48	4.84	3.23	38720-0210
	12	5.33 (135)	4.88 (124)	4.58 (116)	WM5727-ND	6.32	5.58	3.72	38720-0212
1B	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5728-ND	2.06	1.83	1.22	38720-3202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5729-ND	2.71	2.39	1.60	38720-3203
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5730-ND	3.35	2.96	1.98	38720-3204
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5731-ND	3.93	3.48	2.32	38720-3205
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5732-ND	4.51	3.99	2.66	38720-3206
	7	3.46 (87.8)	3.00 (76.2)	2.71 (68.8)	WM5733-ND	5.10	4.50	3.00	38720-3207
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5734-ND	5.74	5.07	3.38	38720-3208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5735-ND	7.03	6.21	4.14	38720-3210
	11	4.96 (126)	4.50 (114)	4.21 (107)	WM5736-ND	7.61	6.72	4.48	38720-3211
	12	5.33 (135)	4.88 (124)	4.58 (116)	WM5737-ND	8.19	7.23	4.82	38720-3212
1C	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5738-ND	1.81	1.60	1.07	38720-6202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5739-ND	2.39	2.11	1.41	38720-6203
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5740-ND*	1.87	1.65	1.11	38720-6303
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5741-ND	2.84	2.51	1.67	38720-6204
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5742-ND*	2.26	2.00	1.33	38720-6304
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5743-ND	3.48	3.08	2.05	38720-6205
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5744-ND*	2.84	2.51	1.67	38720-6305
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5745-ND	3.93	3.48	2.32	38720-6206
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5746-ND*	3.35	2.96	1.98	38720-6306
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5747-ND	5.03	4.44	2.96	38720-6208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5748-ND	6.13	5.41	3.61	38720-6210
1D	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5749-ND	1.87	1.65	1.11	38721-6702
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5750-ND	2.45	2.17	1.45	38721-6703
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5751-ND	2.97	2.62	1.75	38721-6704
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5752-ND	4.06	3.59	2.39	38721-6706

*No mounting ends

Fig.	No. of Contacts	Dim.– Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
.500" Single Row, PCB Tri-Barrier Terminal Strip, 600V								
2	3	1.00 (25.4)	1.61 (40.9)	WM5754-ND	7.55	6.66	4.44	38660-7803
	4	1.50 (38.1)	2.11 (53.6)	WM5755-ND	9.55	8.43	5.62	38660-7804
	5	2.00 (50.8)	2.61 (66.3)	WM5756-ND	11.61	10.25	6.83	38660-7805
	6	2.50 (63.5)	3.11 (79.0)	WM5757-ND	13.61	12.01	8.01	38660-7806
	7	3.00 (76.2)	3.61 (91.7)	WM5758-ND	15.67	13.83	9.22	38660-7807
.375" Double Row Low Profile Barrier Terminal Strip								
3A	2	1.41 (35.8)	1.13 (28.7)	WM5759-ND	1.55	1.37	.92	38770-0102
	3	1.78 (45.2)	1.50 (38.1)	WM5760-ND	1.74	1.54	1.03	38770-0103
	4	2.16 (54.9)	1.88 (47.8)	WM5761-ND	2.13	1.88	1.26	38770-0104
	5	2.53 (64.3)	2.25 (57.2)	WM5762-ND	2.77	2.45	1.64	38770-0105
	6	2.91 (73.9)	2.63 (66.8)	WM5763-ND	3.29	2.91	1.94	38770-0106
	7	3.28 (83.3)	3.00 (76.3)	WM5764-ND	3.42	3.02	2.02	38770-0107
	8	3.66 (93.1)	3.38 (85.9)	WM5765-ND	4.06	3.59	2.39	38770-0108
	10	4.41 (112)	4.13 (105)	WM5766-ND	4.90	4.33	2.89	38770-0110
	12	5.16 (131)	4.88 (124)	WM5767-ND	5.55	4.90	3.27	38770-0112
	13	5.53 (140)	5.25 (133)	WM5768-ND	6.13	5.41	3.61	38770-0113
	14	5.91 (150)	5.63 (143)	WM5769-ND	6.58	5.81	3.87	38770-0114
	16	6.66 (169)	6.38 (162)	WM5770-ND	7.42	6.55	4.37	38770-0116
	18	7.41 (188)	7.13 (181)	WM5771-ND	8.19	7.23	4.82	38770-0118
	20	8.16 (207)	7.88 (200)	WM5772-ND	9.22	8.14	5.43	38770-0120
	30	11.91 (303)	11.63 (295)	WM5773-ND	13.42	11.84	7.90	38770-0130
.375" Double Row Barrier Terminal Strip								
3B	2	1.41 (35.8)	1.13 (28.7)	WM5774-ND	1.55	1.37	.92	38760-0102
	3	1.78 (45.2)	1.50 (38.1)	WM5775-ND	1.74	1.54	1.03	38760-0103

.375" Double Row Barrier Terminal Strip
Same as the Low Profile except the CSA ratings Class B & C: 20 Amps @ 300V 14AWG

.438" Double Row Barrier Terminal Strip
Ratings: #6-32 Binding Head Screw. UL: Class B & C 15 Amps @ 300V 14AWG CSA: Class B & C 20 Amps @ 300V 14AWG Mechanical: Torque - 8in-lbs. Strip length - 5/16: Wire range - 12 to 24AWG Material: Same as the .375" Terminal Strips

.563" Double Row Phenolic Barrier Terminal Strip
Ratings: #8-32 Binding Head Screw: UL & CSA: Class B & C: 30Amps @ 300V 10AWG Mechanical: Torque - 16in-lbs. Strip length - 5/16" Wire range - 10 to 18AWG Materials: Insulator: General purpose phenolic, UL94V-0, black. Terminal: Brass, nickel plate. Screws: #8-32, phillips/slotted, steel, zinc chromate plate

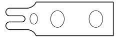
.688" Double Row Phenolic Barrier Terminal Strip
Ratings: #10-32 Screw UL: Class B - 50 Amps @ 300V 6AWG (lugged). Class C - 50 Amps @ 150V, 6AWG (lugged). CSA: Class B - 50 Amps @ 300V 6AWG (lugged). Mechanical: Torque - 20 in-lbs. Torque - 22 in-lbs. Strip length - 5/16" Wire range - 6AWG lugged. Max. Materials: Same as the .562" except the screw size which is #10-32

Fig.	No. of Contacts	Dim.– Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
3B	4	2.16 (54.9)	1.88 (47.8)	WM5776-ND	2.13	1.88	1.26	38760-0104
	5	2.53 (64.3)	2.25 (57.2)	WM5777-ND	2.77	2.45	1.64	38760-0105
	6	2.91 (73.9)	2.63 (66.8)	WM5778-ND	3.29	2.91	1.94	38760-0106
	7	3.28 (83.3)	3.00 (76.3)	WM5779-ND	3.42	3.02	2.02	38760-0107
	8	3.66 (93.1)	3.38 (85.9)	WM5780-ND	4.06	3.59	2.39	38760-0108
	10	4.41 (112)	4.13 (105)	WM5781-ND	4.90	4.33	2.89	38760-0110
	12	5.16 (131)	4.88 (124)	WM5782-ND	5.55	4.90	3.27	38760-0112
	14	5.91 (150)	5.63 (143)	WM5783-ND	6.58	5.81	3.87	38760-0114
	16	6.66 (169)	6.38 (162)	WM5784-ND	7.42	6.55	4.37	38760-0116
	18	7.41 (188)	7.13 (181)	WM5785-ND	8.19	7.23	4.82	38760-0118
	20	8.16 (207)	7.88 (200)	WM5786-ND	9.22	8.14	5.43	38760-0120
	22	8.91 (226)	8.63 (219)	WM5787-ND	9.74	8.60	5.73	38760-0122
	24	9.66 (245)	9.38 (238)	WM5788-ND	10.84	9.57	6.38	38760-0124
	30	11.91 (303)	11.63 (295)	WM5789-ND	13.42	11.84	7.90	38760-0130
.438" Double Row Barrier Terminal Strip								
4	2	1.63 (41.4)	1.31 (33.3)	WM5790-ND	1.61	1.43	.95	38780-0102
	3	2.06 (52.3)	1.75 (44.5)	WM5791-ND	2.06	1.83	1.22	38780-0103
	4	2.50 (63.5)	2.19 (55.6)	WM5792-ND	2.90	2.57	1.71	38780-0104
	5	2.94 (74.7)	2.63 (66.8)	WM5793-ND	3.22	2.85	1.90	38780-0105
	6	3.38 (85.9)	3.06 (77.7)	WM5794-ND	3.81	3.36	2.24	38780-0106
	7	3.81 (96.8)	3.50 (88.9)	WM5795-ND	4.58	4.05	2.70	38780-0107
	8	4.25 (108)	3.94 (100)	WM5796-ND	4.84	4.27	2.85	38780-0108
	10	5.13 (130)	4.81 (122)	WM5797-ND	5.87	5.18	3.46	38780-0110
	12	6.00 (152)	5.69 (145)	WM5798-ND	7.03	6.21	4.14	38780-0112
	14	6.88 (175)	6.56 (167)	WM5799-ND	8.19	7.23	4.82	38780-0114
	16	7.75 (197)	7.44 (189)	WM5800-ND	9.09	8.03	5.35	38780-0116
	18	8.63 (219)	8.31 (211)	WM5801-ND	10.00	8.83	5.89	38780-0118
	20	9.50 (241)	9.19 (233)	WM5802-ND	10.90	9.62	6.42	38780-0120
.563" Double Row Phenolic Barrier Terminal Strip with Closed Bottom								
5	2	2.09 (53.9)	1.69 (42.9)	WM5803-ND	2.58	2.28	1.52	38211-0102
	3	2.66 (67.6)	2.25 (57.2)	WM5804-ND	3.81	3.36	2.24	38211-0103
	4	3.22 (81.8)	2.81 (71.4)	WM5805-ND	4.58	4.05	2.70	38211-0104
	5	3.78 (96.0)	3.38 (85.9)	WM5806-ND	5.74	5.07	3.38	38211-0105
	6	4.34 (110)	3.94 (100)	WM5807-ND	6.64	5.87	3.91	38211-0106
	7	4.91 (125)	4.50 (114)	WM5808-ND	7.22	6.38	4.25	38211-0107
	8	5.47 (139)	5.06 (129)	WM5809-ND	7.87	6.95	4.63	38211-0108
	10	6.59 (167)	6.19 (157)	WM5810-ND	10.19	9.00	6.00	38211-0110
	12	7.72 (196)	7.31 (186)	WM5811-ND	12.32	10.87	7.25	38211-0112
	16	9.97 (253)	9.56 (243)	WM5812-ND	16.00	14.12	9.41	38211-0116
	20	12.22 (310)	11.81 (300)	WM5813-ND	20.25	17.87	11.92	38211-0120
	24	14.47 (368)	14.06 (357)	WM5814-ND	24.06	21.23	14.16	38211-0124
.688" Double Row Phenolic Barrier Terminal Strip								
6	2	2.50 (63.5)	2.06 (52.4)	WM5815-ND	5.43	4.79	3.20	38280-0102
	3	3.19 (81)	2.75 (69.9)	WM5816-ND	7.69	6.79	4.53	38280-0103
	4	3.88 (98.4)	3.44 (87.3)	WM5817-ND	10.02	8.84	5.90	38280-0104
	5	4.56 (116)	4.13 (105)	WM5818-ND	12.34	10.89	7.26	38280-0105
	6	5.25 (133)	4.81 (122)	WM5819-ND	15.38	13.57	9.05	38280-0106
	8	6.63 (168)	6.19 (157)	WM5820-ND	19.26	16.99	11.33	38280-0108
	10	8.00 (203)	7.56 (192)	WM5821-ND	23.71	20.93	13.95	38280-0110
	12	9.38 (238)	8.94 (227)	WM5822-ND	28.62	25.26	16.84	38280-0112

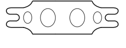
Style 1, 2, and 3 Solder Terminals

Series	Style	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
.375	1	WM5918-ND	.21	.19	.13	38002-0204
	2	WM5919-ND	.28	.25	.17	38002-0157
	3	WM5920-ND	.12	.11	.08	38002-0159
.438	1	WM5921-ND	.28	.25	.17	38002-0304
	2	WM5922-ND	.36	.32	.21	38002-0255
	3	WM5923-ND	.23	.20	.14	38002-0257
.563	1	WM5924-ND	.42	.37	.25	38002-0321
	2	WM5925-ND	.49	.44	.29	38002-0323
	3	WM5926-ND	.52	.46	.31	38002-0325

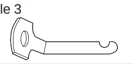
Style 1



Style 2



Style 3



Barrier and Eurostyle® Terminal Blocks

Fig. 1

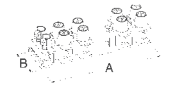


Fig. 2

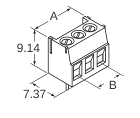


Fig. 3

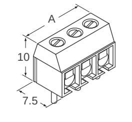


Fig. 4

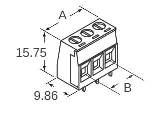


Fig. 5

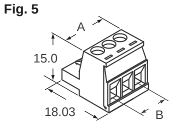


Fig. 6

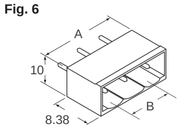


Fig. 7

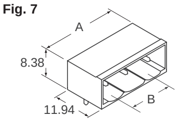


Fig. 8

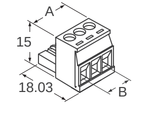


Fig. 9

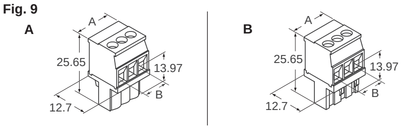


Fig. 10

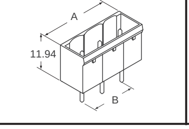


Fig. 11

60 Amps/ Line

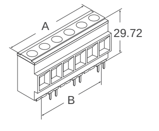
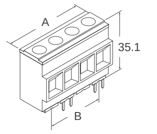


Fig. 12

90 Amps/ Line



8.00mm Two-Screw Terminal Strip

Ratings UL: Class B: 10Amps @ 250V 12AWG Class C: 10Amps @ 300V 12AWG CSA: Class B & C: 10Amps @300 V 12AWG Safety Agencies: UL File No. E82573 CSA: Files No. 25562 Mechanical: Torque - 4 in-lbs. Wire range - 12 to 24 AWG Materials: Insulator - Nylon 6.6, UL94V-2, white. Inserts - Brass, chemically tinned. Wire protector - 18/18 stainless band steel. Screws - Zinc-plated steel. Terminals - Nickel-plated brass

10.0mm Two-Screw Terminal Strip

Ratings UL: Class B: 16 Amps @ 250V 10AWG Class C: 16Amps @ 300V 10AWG CSA: Class B & Class C - 25Amps @300V 10AWG Safety Agencies: UL: File No. E82573 CSA: File No. 25562 Mechanical: Torque - 5in-lbs. Wire Range - 10 to 24 AWG Materials: Same as 8.00mm

12.0mm Two-Screw Terminal Strip

Ratings UL & CSA - Class B & C - 25Amps @ 600V 8AWG Mechanical: Torque 10 in-lbs. Wire Range 8 to 24 AWG Materials: Same as 8.00mm & 10.0mm

3.50mm Eurostyle Fixed PCB Terminal Block

Ratings: UL: Class B: 8 Amps @ 150V 16AWG CSA: Same as the UL Safety Agencies: UL & CSA are pending Mechanical: Torque - 2in-lbs. Strip length - .250" (6mm). Wire Range - 16 to 26AWG. Materials: Insulator: Polyimide, UL94V-0, green. Terminal: Brass, tin plate. Clamp: Brass, nickel plate. Screws: Steel, zinc chromate plate

5.00mm Eurostyle Economy Screw Terminal Block

Ratings: UL: Class B: 15Amps @ 250V 14AWG. Class C: 10Amps @ 300V 14AWG. CSA: 15Amps @ 300V 14AWG. Safety Agencies: UL: File No. E150931 Mechanical: Torque - 3in-lbs. Strip length - .250" (6mm). Wire Range - 14 to 24AWG Materials: Insulator: Polyimide, UL94V-0, grey. Terminal: Brass, tin plate. Wire Protector: Phosphor bronze, tin plate. Screws: Steel, zinc chromate plate

5.00mm and 5.08mm Eurostyle Pluggable PCB Terminal Block

Ratings: UL: Class B: 15Amps @ 300V 12AWG Class C: 10Amps @ 300V 12AWG CSA: Class B: 15Amps @ 300V 12AWG. Safety Agencies: UL: File No. E48521 CSA: File No. 025562 Mechanical: Torque - 5in-lbs. Strip length - .250" (6mm). Wire Range - 12 to 26AWG Materials: Insulator: Polyimide, UL94V-0, black. Pressure clamp: Brass, nickel plate. Contacts: Phosphor bronze, tin plate. Header pins: Brass, tin plate. Screws: 2.5mm, steel, zinc chromate plate

5.00mm and 5.08mm Eurostyle Pluggable PCB Header, Closed Ends

Ratings: UL and CSA - Class B: 15Amps @ 300V UL: Class C: 10 Amps @ 300V File No. E150931 Materials: Nylon 6.6, UL94V-0, black. Header pins: Brass, tin plate

10.16mm Eurostyle High Power Fixed Blocks

Ratings: UL and CSA Agencies: UL: File No. E48521 Guide No. XCFR2 CSA: File No. 025562 Electrical: Voltage: 600V Maximum Current: 60 Amp Insulation Resistance: > 50,000 Gigaohms Mechanical: Max. tightening Torque: 18 in. lbs. 2.03 Nm Operating Temperature: 130°C Physical: Insulator: PBT UL94 V-0, Black Screws: Bronze Screw Plating: Tin Pressure Clamp: Brass Pressure Clamp Plating: Nickel Contacts: Copper Contact Plating: Tin

15.00mm Eurostyle High Power Fixed Blocks

Ratings: UL and CSA Agencies: UL: File No. E48521 Guide No. XCFR2 CSA: File No. 025562 Electrical: Voltage: 600V Maximum Current: 90 Amp Insulation Resistance: > 50,000 Gigaohms Mechanical: Max. tightening Torque: 24 in. lbs. 2.71 Nm Operating Temperature: 130°C Physical: Insulator: PBT UL94 V-0, Black Screws: Bronze Screw Plating: Tin Pressure Clamp: Brass Pressure Clamp Plating: Nickel Contacts: Copper Contact Plating: Tin

Fig.	No. of Contacts	Dim. – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
8.00mm Two-Screw Terminal Strip, with Wire Protector								
1	2	.54 (13.8)	.630 (16.0)	WM5900-ND	1.61	1.43	.95	39150-0302
	3	.86 (21.8)	.630 (16.0)	WM5901-ND	2.32	2.05	1.37	39150-0303
	4	1.17 (29.8)	.630 (16.0)	WM5902-ND	3.10	2.74	1.83	39150-0304
	5	1.49 (37.8)	.630 (16.0)	WM5903-ND	4.51	3.99	2.66	39150-0305
	6	1.80 (45.8)	.630 (16.0)	WM5904-ND	4.51	3.99	2.66	39150-0306
	6	1.80 (45.8)	.630 (16.0)	WM5905-ND*	3.10	2.74	1.83	39150-0206
	8	2.43 (61.8)	.630 (16.0)	WM5906-ND	5.93	5.24	3.50	39150-0308
	12	3.69 (93.8)	.630 (16.0)	WM5907-ND	8.32	7.35	4.90	39150-0312
10.0mm Two-Screw Terminal Strip, with Wire Protector								
1	3	1.04 (26.5)	.787 (20.0)	WM5908-ND	2.45	2.17	1.45	39400-0303
	3	1.04 (26.5)	.787 (20.0)	WM5909-ND*	2.39	2.11	1.41	39400-0403
	4	1.44 (36.5)	.787 (20.0)	WM5910-ND	3.16	2.79	1.86	39400-0304
	5	1.83 (46.5)	.787 (20.0)	WM5911-ND	4.71	4.16	2.77	39400-0305
	6	2.22 (56.5)	.787 (20.0)	WM5912-ND	4.71	4.16	2.77	39400-0306
	8	3.01 (76.5)	.787 (20.0)	WM5913-ND	6.19	5.47	3.65	39400-0308
	10	3.80 (96.5)	.787 (20.0)	WM5914-ND	8.96	7.91	5.28	39400-0310
	12	4.59 (116.5)	.787 (20.0)	WM5915-ND	8.64	7.63	5.09	39400-0312
12.0mm Two-Screw Terminal Strip, with Wire Protector								
1	10	4.57 (116)	.944 (24.0)	WM5916-ND	12.96	11.44	7.63	39600-0310
	12	5.51 (140)	.944 (24.0)	WM5917-ND	12.45	10.99	7.33	39600-0312

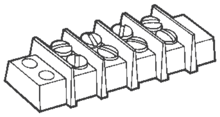
* Low Profile

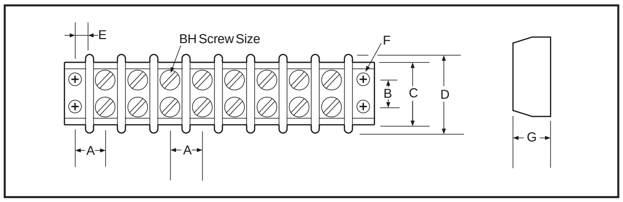
Fig.	No. of Contacts	Dim. – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
3.50mm Eurostyle Fixed PCB Terminal Block								
2	2	.275 (7)	—	WM5823-ND	1.16	1.03	.69	39830-0102
	3	.413 (10.5)	—	WM5824-ND	1.81	1.60	1.07	39830-0103
5.00mm Eurostyle Economy Screw Terminal Block								
3	2	.394 (10)	—	WM5825-ND	.78	.69	.46	39840-0102
	3	.591 (15)	—	WM5826-ND	1.16	1.03	.69	39840-0103
5.08mm Eurostyle Single-Piece (Fixed) Block								
4	2	.42 (10.7)	.20 (5.1)	WM5892-ND	1.36	1.20	.80	39880-0102
	3	.62 (15.7)	.40 (10.2)	WM5893-ND	2.00	1.77	1.18	39880-0103
	4	.82 (20.8)	.60 (15.2)	WM5894-ND	2.71	2.40	1.60	39880-0104
	5	1.02 (25.9)	.80 (20.3)	WM5895-ND	3.36	2.97	1.98	39880-0105
	6	1.22 (31)	1.00 (25.4)	WM5896-ND	4.07	3.60	2.40	39880-0106
	8	1.62 (41.1)	1.40 (35.6)	WM5897-ND	5.43	4.79	3.20	39880-0108
	10	2.02 (51.3)	1.80 (45.7)	WM5898-ND	6.78	5.99	4.00	39880-0110
5.00mm Eurostyle Pluggable PCB Terminal Block								
5	2	.39 (9.9)	.20 (5)	WM5862-ND	2.07	1.83	1.22	39870-0102
	3	.59 (14.9)	.39 (10)	WM5863-ND	3.17	2.80	1.87	39870-0103
	4	.78 (19.9)	.59 (15)	WM5864-ND	4.20	3.71	2.48	39870-0104
	5	.98 (24.9)	.79 (20)	WM5865-ND	5.23	4.62	3.08	39870-0105
	6	1.18 (29.9)	.99 (25)	WM5866-ND	6.27	5.53	3.69	39870-0106
	7	1.37 (34.9)	1.18 (30)	WM5867-ND	7.30	6.45	4.30	39870-0107
	8	1.57 (39.9)	1.38 (35)	WM5868-ND	8.34	7.36	4.91	39870-0108
	9	1.77 (44.9)	1.58 (40)	WM5869-ND	9.37	8.27	5.52	39870-0109
	10	1.97 (49.9)	1.77 (45)	WM5870-ND	10.47	9.24	6.16	39870-0110
	12	2.36 (59.9)	2.17 (55)	WM5871-ND	12.54	11.07	7.38	39870-0112
5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Vert.								
6	2	.45 (11.3)	.20 (5)	WM5872-ND	.78	.69	.46	39870-0502
	3	.64 (16.3)	.39 (10)	WM5873-ND	1.16	1.03	.69	39870-0503
	4	.84 (21.3)	.59 (15)	WM5874-ND	1.62	1.43	.96	39870-0504
	5	1.04 (26.3)	.79 (20)	WM5875-ND	2.00	1.77	1.18	39870-0505
	6	1.23 (31.3)	.99 (25)	WM5876-ND	2.39	2.11	1.41	39870-0506
	7	1.45 (36.9)	1.18 (30)	WM5877-ND	2.78	2.46	1.64	39870-0507
	8	1.65 (41.9)	1.38 (35)	WM5878-ND	3.17	2.80	1.87	39870-0508
	9	1.85 (46.9)	1.58 (40)	WM5879-ND	3.62	3.20	2.13	39870-0509
	10	2.05 (51.9)	1.77 (45)	WM5880-ND	4.01	3.54	2.36	39870-0510
	12	2.44 (62.0)	2.17 (55)	WM5881-ND	4.78	4.22	2.82	39870-0512

Fig.	No. of Contacts	Dim. – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Right-Angle								
7	2	.45 (11.3)	.20 (5)	WM5882-ND	.78	.69	.46	39870-0702
	3	.64 (16.3)	.39 (10)	WM5883-ND	1.16	1.03	.69	39870-0703
	4	.84 (21.3)	.59 (15)	WM5884-ND	1.62	1.43	.96	39870-0704
	5	1.04 (26.3)	.79 (20)	WM5885-ND	2.00	1.77	1.18	39870-0705
	6	1.23 (31.3)	.99 (25)	WM5886-ND	2.39	2.11	1.41	39870-0706
	7	1.45 (36.9)	1.18 (30)	WM5887-ND	2.78	2.46	1.64	39870-0707
	8	1.65 (41.9)	1.38 (35)	WM5888-ND	3.17	2.80	1.87	39870-0708
	9	1.85 (46.9)	1.58 (40)	WM5889-ND	3.62	3.20	2.13	39870-0709
	10	2.05 (51.9)	1.77 (45)	WM5890-ND	4.01	3.54	2.36	39870-0710
	12	2.44 (62.0)	2.17 (55)	WM5891-ND	4.78	4.22	2.82	39870-0712
5.08mm Eurostyle Pluggable PCB Terminal Block, Right-Angle								
8	2	.39 (10)	.20 (5.1)	WM5827-ND	2.07	1.83	1.22	39860-0102
	3	.59 (15.1)	.40 (10.2)	WM5828-ND	3.17	2.80	1.87	39860-0103
	4	.79 (20.2)	.60 (15.2)	WM5829-ND	4.20	3.71	2.48	39860-0104
	5	.99 (25.3)	.80 (20.3)	WM5830-ND	5.23	4.62	3.08	39860-0105
	6	1.19 (30.4)	1.00 (25.4)	WM5831-ND	6.27	5.53	3.69	39860-0106
	8	1.59 (40.5)	1.40 (35.6)	WM5832-ND	8.34	7.36	4.91	39860-0108
	10	1.99 (50.7)	1.80 (45.7)	WM5833-ND	10.47	9.24	6.16	39860-0110
	12	2.39 (60.8)	2.20 (55.9)	WM5834-ND	12.54	11.07	7.38	39860-0112
5.08mm Eurostyle Pluggable PCB Terminal Block, Vert.								
9A	2	.395 (10)	.20 (5.1)	WM5835-ND	2.39	2.11	1.41	39860-0202
	3	.595 (15.1)	.40 (10.2)	WM5836-ND	3.62	3.20	2.13	39860-0203
	4	.795 (20.2)	.60 (15.2)	WM5837-ND	4.78	4.22	2.82	39860-0204
	5	.995 (25.3)	.80 (20.3)	WM5838-ND	6.01	5.31	3.54	39860-0205
	6	1.19 (30.4)	1.00 (25.4)	WM5839-ND	7.17	6.33	4.22	39860-0206
	8	1.59 (40.5)	1.40 (35.6)	WM5840-ND	9.63	8.50	5.67	39860-0208
	10	1.99 (50.7)	1.80 (45.7)	WM5841-ND	12.02	10.61	7.07	39860-0210
9B	2	.395 (10)	.200 (5.1)	WM5842-ND	2.39	2.11	1.41	39860-0302
	3	.595 (15.1)	.400 (10.2)	WM5843-ND	3.62	3.20	2.13	39860-0303
	4	.795 (20.2)	.600 (15.2)	WM5844-ND	4.78	4.22	2.82	39860-0304
	6	1.19 (30.4)	1.00 (25.4)	WM5845-ND	7.17	6.33	4.22	39860-0306
5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Vert.								
10	2	.45 (11.4)	.20 (5.1)	WM5846-ND	.78	.69	.46	39860-0502
	3	.65 (16.5)	.40 (10.2)	WM5847-ND	1.16	1.03	.69	39860-0503
	4	.85 (21.6)	.60 (15.2)	WM5848-ND	1.62	1.43	.96	39860-0504
	5	1.05 (26.7)	.80 (20.3)	WM5849-ND	2.00	1.77	1.18	39860-0505
	6	1.25 (31.8)	1.00 (25.4)	WM5850-ND	2.39	2.11	1.41	39860-0506
	8	1.67 (42.5)	1.40 (35.6)	WM5851-ND	3.17	2.80	1.87	39860-0508
	10	2.07 (52.7)	1.80 (45.7)	WM5852-ND	4.01	3.54	2.36	39860-0510
	12	2.47 (62.8)	2.20 (55.9)	WM5853-ND	4.78	4.22	2.82	39860-0512
5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Right-Angle								
7	2	.45 (11.4)	.20 (5.1)	WM5854-ND	.78	.69	.46	39860-0702
	3	.65 (16.5)	.40 (10.2)	WM5855-ND	1.16	1.03	.69	39860-0703
	4	.85 (21.6)	.60 (15.2)	WM5856-ND	1.62	1.43	.96	39860-0704
	5	1.05 (26.7)	.80 (20.3)	WM5857-ND	2.00	1.77	1.18	39860-0705
	6	1.25 (31.8)	1.00 (25.4)	WM5858-ND	2.39	2.11	1.41	39860-0706
	8	1.67 (42.5)	1.40 (35.6)	WM5859-ND	3.17	2.80	1.87	39860-0708
	10	2.07 (52.7)	1.80 (45.7)	WM5860-ND	4.01	3.54	2.36	39860-0710
	12	2.47 (62.8)	2.20 (55.9)	WM5861-ND	4.78	4.22	2.82	39860-0712
10.16mm Eurostyle High Power Fixed Blocks								
11	2	.86 (21.84)	.40 (10.16)	WM5964-ND	4.26	3.84	3.41	39910-0102
	3	1.26 (32.00)	.80 (20.32)	WM5965-ND	5.78	5.20	4.63	39910-0103
	4	1.66 (42.16)	1.20 (30.48)	WM5966-ND	7.26	6.54	5.81	39910-0104
	6	2.46 (62.48)	2.00 (50.80)	WM5967-ND	10.26	9.23	8.21	39910-0106
	8	3.26 (82.80)	2.80 (71.12)	WM5968-ND	13.30	11.98	10.65	39910-0108
15.00mm Eurostyle High Power Fixed Blocks								
12	2	1.15 (29.21)	.59 (14.99)	WM5969-ND	6.68	6.01	5.35	39920-0102
	3	1.74 (44.20)	1.18 (30.00)	WM5970-ND	8.72	7.85	6.98	39920-0103
	4	2.33 (59.18)	1.77 (44.96)	WM5971-ND	10.79	9.71	8.63	39920-0104
	6	3.51 (89.15)	2.95 (74.93)	WM5972-ND	14.89	13.41	11.92	39920-0106
	8	4.69 (119.13)	4.13 (104.90)	WM5973-ND	19.00	17.10	15.21	39920-0108

CINCH Waldom ELECTRONICS

Barrier Blocks



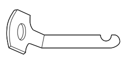


Terminal Spacing	Dimensions – Inch (mm)							BH Screw Size
	A	B	C	D	E	F	G	
.375 (9.52)	.375 (9.52)	.313 (7.95)	.688 (17.48)	.875 (22.23)	.141 (3.58)	.160 (4.06)	.406 (10.31)	5-40x3/16
.438 (11.13)	.438 (11.13)	.422 (10.72)	.875 (22.23)	1.125 (28.58)	.156 (3.96)	.175/.180 (4.44/4.57)	.500 (12.70)	6-32x1/4
.563 (14.30)	.563 (14.30)	.500 (12.70)	1.062 (26.97)	1.312 (33.32)	.203 (5.16)	.209 (5.31)	.625 (15.88)	8-32x5/16

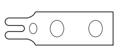
Features:
• Interposing barriers between terminals • Can be equipped with binder head screws only, or with binder head screws and W, 3/4W and Y solder terminals • UL recognized

Performance Data:
Insulation Material: Molded monoblock, general purpose phenolic
Eyelet Material: Brass
Eyelet Plating: Nickel
Screw Material: Steel or brass
Screw Plating: Nickel over copper flash
Solder Terminal Material: Brass
Solder Terminal Plating: Tin
Operating Temperature: -55°F to +300°F (-48°C to +149°C)
Maximum Wire Size: .375" (9.53mm) - #16; .438" (11.13mm) - #15; .563" (14.30mm) - #10
Voltage Rating: .375" and .438" (9.53mm and 11.13mm) - 1100VAC rms max.; .563" (14.30mm) - 1600VAC rms max.
Current Rating: .375" (9.53mm) - 15A max.; .438" (11.13mm) - 20A max.; .563" (14.30mm) - 30A max.
Max. Watts per Terminal: .375" (9.53mm) – 3750; .438" (11.13mm) – 5000; .563" (14.30mm) – 7500

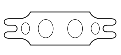
Y Type



3/4W Type



W Type



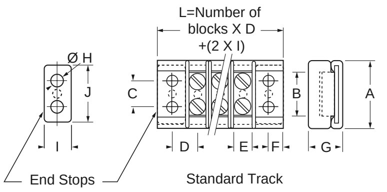
Terminal Spacing	No. of Contacts	Digi-Key Part No.	Pricing 1	25	50	100	250	500	Cinch Part No.
.375" (9.53 mm)	2	CBB102-ND	1.54	29.36	53.42	96.54	229.27	427.97	2-140
	3	CBB103-ND	1.92	36.50	66.40	120.01	285.02	532.03	3-140
	4	CBB104-ND	2.04	38.78	70.54	127.49	302.78	565.18	4-140
	5	CBB105-ND	2.10	39.97	72.71	131.41	312.09	582.57	5-140
	6	CBB106-ND	2.78	52.82	96.09	173.66	412.44	769.89	6-140
	7	CBB107-ND	2.94	55.98	101.85	184.06	437.14	815.99	7-140
	8	CBB108-ND	3.34	63.58	115.66	209.02	496.41	926.64	8-140
	9	CBB109-ND	3.71	70.54	128.32	231.90	550.77	1028.10	9-140
	10	CBB110-ND	4.08	77.49	140.97	254.77	605.08	1129.49	10-140
	11	CBB111-ND	4.61	87.61	159.38	288.04	684.10	1276.98	11-140
	12	CBB112-ND	4.74	90.15	163.99	296.37	703.88	1313.91	12-140
.438" (11.13 mm)	2	CBB202-ND	1.38	26.26	47.78	86.34	205.07	382.79	2-141
	3	CBB203-ND	2.16	41.10	74.78	135.14	320.96	599.12	3-141
	4	CBB204-ND	2.16	41.10	74.78	135.14	320.96	599.12	4-141
	5	CBB205-ND	2.41	45.81	83.33	150.60	357.66	667.64	5-141
	6	CBB206-ND	2.70	51.26	93.26	168.54	400.28	747.18	6-141
	7	CBB207-ND	3.23	61.37	111.64	201.77	479.20	894.50	7-141
	8	CBB208-ND	3.37	64.10	116.61	210.74	500.51	934.28	8-141
	9	CBB209-ND	3.77	71.73	130.49	235.82	560.07	1045.47	9-141
	10	CBB210-ND	3.87	73.55	133.80	241.81	574.30	1072.02	10-141
	11	CBB211-ND	4.39	83.44	151.79	274.33	651.53	1216.19	11-141
	12	CBB212-ND	4.57	86.95	158.18	285.87	678.94	1267.35	12-141
.563" (14.30 mm)	2	CBB302-ND	2.03	38.65	70.31	127.06	301.77	563.29	2-142
	3	CBB303-ND	2.37	44.99	81.84	147.91	351.28	655.72	3-142
	4	CBB304-ND	2.66	50.66	92.15	166.54	395.53	738.32	4-142
	5	CBB305-ND	3.69	70.17	127.65	230.70	547.91	1022.76	5-142
	6	CBB306-ND	5.12	97.34	177.07	320.01	760.02	1418.70	6-142
	7	CBB307-ND	5.56	105.73	192.33	347.59	825.53	1540.99	7-142
	8	CBB308-ND	5.78	109.96	200.03	361.50	858.57	1602.66	8-142
	9	CBB309-ND	8.65	164.35	298.98	540.32	1283.26	2395.42	9-142
	10	CBB310-ND	9.07	172.41	313.64	566.82	1346.19	2512.88	10-142
	11	CBB311-ND	9.46	179.84	327.16	591.26	1404.24	2621.25	11-142
	12	CBB312-ND	9.51	180.73	328.77	594.17	1411.14	2634.13	12-142

W, 3/4W and Y Solder Terminals

Series	Type	Digi-Key Part No.	Pricing 1	25	50	100	250	500	Cinch Part No.
.375" (9.53mm)	Y	CBB001-ND	.46	8.83	16.07	29.04	68.96	128.72	Y-140
	3/4W	CBB002-ND	.45	8.60	15.64	28.26	67.13	125.31	3/4W-140
	W	CBB003-ND	.46	8.83	16.07	29.04	68.96	128.72	W-140
.438" (11.13mm)	Y	CBB004-ND	.72	13.66	24.86	44.92	106.69	199.16	Y-141
	3/4W	CBB005-ND	.60	11.41	20.75	37.50	89.07	166.27	3/4W-141
	W	CBB006-ND	.61	11.62	21.13	38.19	90.69	169.30	W-141
.563" (14.30mm)	Y	CBB007-ND	.82	15.51	28.21	50.99	121.10	226.05	Y-142
	3/4W	CBB008-ND	.80	15.23	27.71	50.08	118.93	222.01	3/4W-142
	W	CBB009-ND	.82	15.51	28.21	50.99	121.10	226.05	W-142

AMP tyco Electronics Authorized Distributor

FLEXI-BLOCK® Terminal Block System

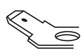


Accessories

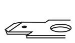
Jumper Tab

90° Tab

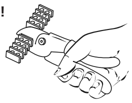
45° Tab



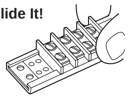
Flat Tab



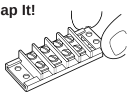
Snip It!



Slide It!



Snap It!



Product Specifications: • Blocks and End Stops: Nylon • Track: NORYL EN 265 • FASTON Tab and Jumper Tab: Tin plated brass • Screws: Nickel plated brass Ratings: • 6000 Breakdown voltage, rms line-to-line • 6000 Breakdown voltage, rms line-to-ground • Operating Temperature: 105°C Max.

Max. Size	Max. Amps	Volts	Wire Range	Dimensions (Inch) A	B	C	D	E	F	G	H	I	J
6	15	300	22-14	1.125	.750	.422	.438	.343	.219	.563	.171	.437	.96
8	30	600	22-10	1.312	.875	.500	.563	.437	.281	.656	.203	.557	1.15

Size	Description	Digi-Key Part No.	Pricing 1	10	AMP Part No.
6	#6 Block Assembly, 100pcs/pkg	A0130-ND	45.94/pkg (100 pcs/pkg)		1-604102-1
8	#8 Block Assembly, 100pcs/pkg	A0131-ND	52.08/pkg (100 pcs/pkg)		1-604152-1
6	Track 36" long, 80 positions	A0132-ND	6.33	56.93	1-601805-1
8	Track 36" long, 60 positions	A0133-ND	5.85	52.65	1-601806-1
6	End Stop, 2 required per assembly	A0134-ND	—	.87	604111-1
8	End Stop, 2 required per assembly	A0135-ND	—	1.19	604161-1
6, 8	Flat Tab	A0136-ND	—	12.00	601989-1
6, 8	45° Tab	A0137-ND	—	10.46	601989-2
6, 8	90° Tab	A0138-ND	—	7.13	601989-3
6	Jumper Tab	A0139-ND	—	2.20	601985-2
8	Jumper Tab	A0140-ND	—	3.10	604591-1
6	#6 Terminal Block Kit	A0150-ND*	88.58	797.18	601804-8
8	#8 Terminal Block Kit	A0151-ND†	117.78	1059.98	604336-1
6, 8	Cutting Tool (Track & Tape)	A9958-ND	38.06	—	604008-1

* Kit consists of 1 ea. 100-block assembly, 25 end stops, 2 tracks
† Kit consists of 1 ea. 100-block assembly, 50 end stops, 8 tracks

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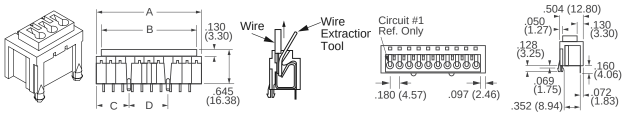
molex Waldom ELECTRONICS

Wire Trap - LITE



FEATURES: • Allows fast interconnect to PCB • Mounting pegs for PCB polarization • Wire insertion/extraction from vertical direction • Accommodates 16-20 AWG wire (see chart for wire types) • Can be robotically inserted into PCB

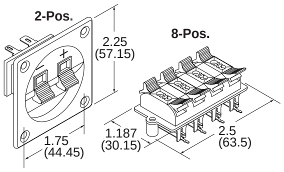
SPECIFICATIONS: Physical: • Terminal: Phosphor bronze • Plating: Tin • Housing: 94V-0 Polyester. **Mechanical:** • Temperature Rise: 30°C max. (per U.L. specifications) • Storage Temperature: -40°C to +105°C max. • Wire pullout force: 10 lbs. min (18 AWG wire) • Wire Insertion/Extraction cycles: 5 max. **Electrical:** • Voltage Rating: 600V (RMS) • Current Rating: 6.0 amperes per circuit (18 AWG wire) • Contact Resistance: 10 milliohm max. • Insulation Resistance: 1,000 Megohm min. • Dielectric Strength: 1,500VAC. **Agency Approvals:** UL file #: E29179. CSA File #: LR19980. **Wire Types:** • Conductor Diameter Range: .038" – .060" (.97mm – 1.52mm). Insulation Outside Dia. Range: .079" – .118" (2.01mm – 3.00mm). **Suggested Wire Types:** 16 AWG. 18 AWG solid or standard with top coat. 20 AWG stranded with top coat.

Pos.	Dimension – Inch (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
3	.714 (18.14)	.520 (13.21)	.067 (1.70)	.580 (14.73)	WM1272-ND	1.49	13.17	87.80	351.18	22-45-4036
4	.894 (22.71)	.700 (17.78)	.067 (1.70)	.720 (18.29)	WM1273-ND	1.83	16.19	107.94	431.74	22-45-4046
5	1.074 (27.28)	.800 (20.32)	.247 (6.27)	.720 (18.29)	WM1274-ND	2.10	18.52	123.49	493.96	22-45-4056
6	1.254 (31.85)	1.060 (26.92)	.247 (6.27)	.720 (18.29)	WM1275-ND	2.33	20.57	137.17	548.66	22-45-4066
10	1.974 (50.14)	1.780 (45.21)	.607 (15.42)	.720 (18.29)	WM1277-ND	3.46	30.56	203.76	815.03	22-45-4106

The power should be removed before servicing the product.

GC ELECTRONICS

Spring Push Terminals



These terminals have spring loaded posts for easy connection with Red and Black color codes. Designed for various audio applications such as surround sound and speaker connections, amplifiers and more.

GC399-ND	2 Pos. for panel mounting to speakers, mounts in 2" (50.80mm) hole	**$1.60**
GC400-ND	4 Pos. for mounting directly to chassis or panels	**$1.84**
GC401-ND	8 Pos. with right angle PCB terminals, with Mounting. Ears	**$2.79**

Amphenol® Smart Card Connectors

PUSHMATIC® II With or Without Locking Arms

Fig.1

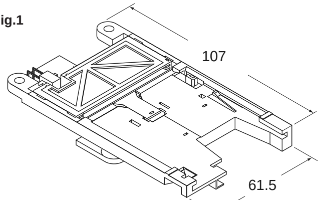


Fig. 2

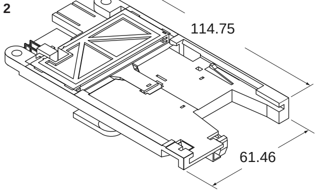


Fig. 3

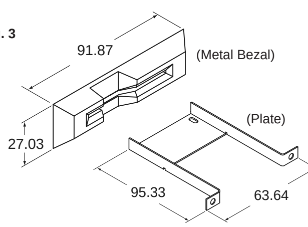
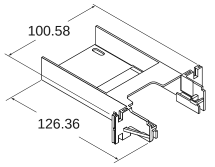


Fig. 4



Applications: • Payment and security systems **Design Features:** • Anti-vandal Smart Card Connector for unattended terminals • Miniaturized style, suitable for mobile interface devices • Card accessible during power failure • Card presence switch, also can be used for system wake up • Card end position switch also acts as card locking sensor • Additional sensor for card active position detects abnormal termination of the transaction • Self retracting and self cleaning data contacts provide protection against vandalism • SCC meets the requirements as specified in document EMV 96 (Europay Mastercard Visa/Integrated Circuit Card Specification for Payment Systems) • Housing bottom features a large debris slot allowing the egress of coins, paper, as well as cut in half cards • 16 way interface header allows for custom cabling **Assembly Instructions:** • PUSHMATIC® II can be used with mounting adapter and bezels according to customer design.

Standard Style Smart Card Connectors

Fig. 5

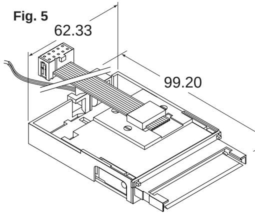


Fig. 6

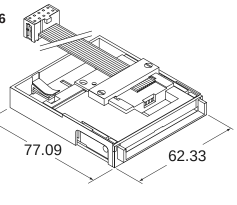
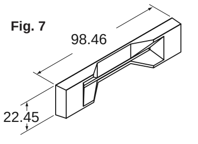


Fig. 7



Note: Use only with Fig. 6
C702 10M008 5142
C702 10M008 5222

Applications: • Unattended Point of Sale systems • Vending equipment • Access control **Design Features:** • High numbers of card insertion cycles, due to the principle of landing contacts • Designed for harsh applications and environments • Modular system with several operating methods from manual handling to automatic card ejection • Bezel Accessory **Assembly Instructions:** • Please make sure that interface cables are unrestricted and free to move after assembly.

Superflat Style Smart Card Connectors

Fig. 8

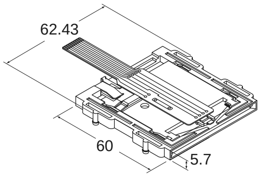
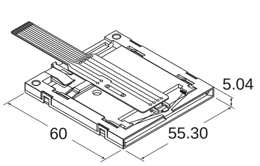


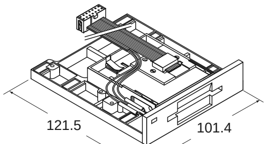
Fig. 9



Applications: • Point of Sale systems • Mobile devices • Access control • Keyboards **Design Features:** • Miniature size ideally suited for mobile devices **Assembly Instructions:** • Please make sure that flexprints remain free and unrestricted after assembly.

Disk Drive Slot Smart Card Connectors

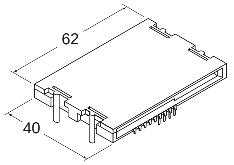
Fig. 10



Design Features: • A Smart Card Connector (C702-1) with Push Pull card handling • Mounted on a 3.5 high inch disk drive frame (tan color: RAL 7032) with a bicolor LED (red/green) • Mounting screws are included **Assembly Instructions:** • Please make sure that interface cables are unrestricted and free to move after assembly.

PCB Mount Wiping Contact Smart Card Connectors

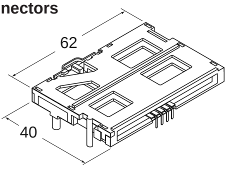
Fig. 11



Applications: • Set top boxes • Toll road transponders • Parking meters • Utility metering systems **Design Features:** • Termination: dip solder pins • Special shape of wiping contacts minimize card scratching and wear • Smart Card Connector meets the requirements as specified in document ISO 7816 **Soldering Conditions:** • Wave soldering: 260°C; 10s max.

PCB Mount Wiping Contact Smart Card Connectors

Fig. 12



C702 10M008 2724

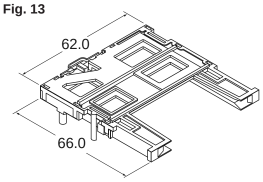
C702 10M008 2554 with 3mm Standoffs

These acceptors are low cost and provide direct sliding contact between the acceptor and the chip card. These acceptors have NC closed card present switches which open when the card is fully inserted.

Applications: • Set top boxes • Toll road transponders • Parking meters • Utility metering systems **Design Features:** • Termination: dip solder pins • Special shape of wiping contacts minimize card scratching and wear • Smart Card Connector meets the requirements as specified in document EMV 96 (Europay Mastercard Visa/Integrated Circuit Card Specification for Payment Systems) Includes 3mm stand-offs **Soldering Conditions:** • Wave soldering: 260°C; 10s max.

PCB Mounting Contact Smart Card Connectors with 3mm Standoffs

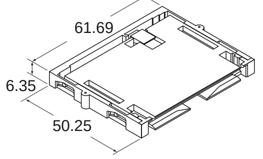
Fig. 13



Applications: • TV/Satellite decoders • Point of Sale systems • Computer networks and energy meters • Also suitable for applications with permanently inserted cards under changing temperatures **Design Features:** • Meets the EMV Integrated Circuit Card Specification for Payment Systems (Europay Mastercard Visa) • Has a switch which indicates whether a card is in the reading position

Landing Card PCB Mount Smart Card Connectors

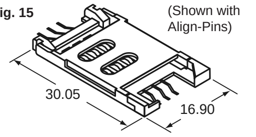
Fig. 14



Design Features: • High number of mating cycles due to minimized wiping distance on card contacts • Contact self-cleaning effect • Short card insertion depth **Soldering Conditions:** • Wave soldering: 260°C; 10s max.

SIMLOCK®

Fig. 15



(Shown with Align-Pins)

Applications: • Designed for mini SIM/SAM card **Design features:** • Size: same footprint as SIM card • Reliable function in locked state during mobile use • Polarization notch does not allow incorrect card positioning • Suitable for automatic assembly processes (Pick & Place, Tape & Reel, and Reflow) **Soldering Conditions:** • Infrared reflow: 245°C; 10s max.

SIMBLOCK®

Fig. 16

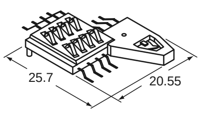
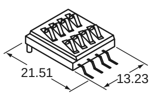


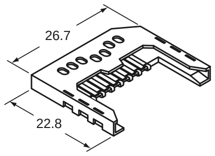
Fig. 17



Applications: • Handsets • E-Purses **Design Features:** • Contacts chip cards according to ISO 7816 and Plug in SIM-Cards • Low height (2mm standard) • High co-planarity accuracy • SMT-Version with 6 contacts especially designed for GSM 11.11 interfaces **Soldering Conditions:** • Infrared reflow: 245°C; 10s max.

MMC Connectors

Fig. 18



Applications: • Audio • Video • PC • Automotive • Telecom Designed according to latest MMCA specification. Cut out for mechanical and electrical contact tests. Underneath contact design.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	T&R Pricing 800	Amphenol Part No.
1	Pushmatic® II, 12V	361-1005-ND	30.81	28.76	26.71	—	C702 10M008 9042
	Pushmatic® II, 5V	361-1007-ND	30.81	28.76	26.71	—	C702 10M008 9062
2	Pushmatic® II, 12V, with Locking Arms	361-1006-ND	34.70	32.39	30.07	—	C702 10M008 9052
	Pushmatic® II, 5V, with Locking Arms	361-1008-ND	35.48	33.11	30.75	—	C702 10M008 9072
3	Metal Bezel for Pushmatic® II	361-1009-ND	10.72	8.86	7.46	—	C702 G46 000 G2
	Metal Mounting Plate for Pushmatic® II	361-1010-ND	4.67	3.63	2.90	—	C702 G51 012 E2
4	Plastic Adapter for Deep Bezel	361-1011-ND	10.35	8.55	7.20	—	C702 N25 040 E2
5	Pushmatic®, 12V, ISO	361-1001-ND	19.68	18.37	17.06	—	C702 10M008 7002
	Pushmatic®, 5V, ISO	361-1002-ND	19.68	18.37	17.06	—	C702 10M008 7012
6	Push Pull, ISO	361-1003-ND	12.85	11.76	10.59	—	C702 10M008 5142
	Push Pull, Afnor	361-1004-ND	17.09	15.95	14.81	—	C702 10M008 5222
7	Plastic Bezel, Black, Standard Style	361-1012-ND	8.30	6.86	5.78	—	C702 N11 141 E2
8	Superflat Snap-In, EMV Compatible	361-1014-ND	8.76	7.08	5.57	—	C702 10M008 0664
9	Superflat	361-1015-ND	10.58	8.74	7.36	—	C702 10M008 0014

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	T&R Pricing 800	Amphenol Part No.
10	Disk Drive Slot, Desktop	361-1022-ND	35.01	32.68	30.35	—	C705 10M008 0195
11	ISO Wiping Contact, Snap-In	361-1016-ND	2.54	1.95	1.56	—	C702 10M008 2064
12	ISO Wiping Contact, EMV, Snap-In	361-1018-ND	2.11	1.63	1.30	—	C702 10M008 2724
	ISO Wiping Contact EMV, with Standoffs	361-1019-ND	2.28	1.75	1.40	—	C702 10M008 2554
13	ISO Wiping Contact w/Rails, w/Standoffs	361-1017-ND	2.60	2.00	1.60	—	C702 10M008 2834
14	ISO Landing PCB	361-1013-ND	6.24	4.84	3.87	—	C702 10M008 1214
15	SIMLOCK® without Align-Pins, Black	361-1020-1-ND*	2.18	1.68	1.34	—	C707 10M006 5002
	SIMLOCK® without Align-Pins, Black	361-1020-2-ND	—	—	—	750.40	C707 10M006 5002
	SIMLOCK® with Align-Pins, Black	361-1021-1-ND*	2.18	1.68	1.34	—	C707 10M006 0492
	SIMLOCK® with Align-Pins, Black	361-1021-2-ND	—	—	—	750.40	C707 10M006 0492
16	SIMBLOCK® with NC Switch	361-1023-ND	2.99	2.32	1.86	—	C707 10M006 0532
17	SIMBLOCK® without Switch	361-1024-ND	2.73	2.10	1.68	—	C707 10M006 0522
18	Multimedia Card Push Pull	361-1025-ND	1.95	1.50	1.20	—	C709 10A007 1001

* Denotes Cut Tape

PIDG Ring Terminals

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts:** • **Temperature Rating:** 105°C Max. • **AMP Wire:** Solid or Stranded • **Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. • **Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. • **Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

PIDG Insulation Restricting Terminals: **Material:** • Insulation: Nylon • Terminal Body and Metallic Sleeve: Copper per ASTM B-152 • Plating: Nickel per QQ-N-290 or Tin per MIL-T-10727. Insulation Restriction Terminals prevent the insulation of thin-wall insulation wire from entering the terminal's wire crimp area during the crimping process.

PIDG Radiation Resistant: **Temp. Rating:** 150°C Max. **Material:** • Insulation: Polyvinylidene Fluoride (PVF_2) • Terminal, Splice Body & Metallic Sleeve: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727.

Fig. 1

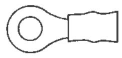


Fig. 2

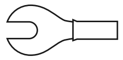
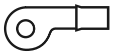


Fig. 3



PIDG - Ring

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
26-24 AWG Yellow														
1	4	.203 x .736	.105	A27492-ND	.83	.73	52189	—	—	—	—	—	—	—
	6	.250 x .792	.105	A27493-ND	.35	.31	53073	—	—	—	—	—	—	—
26-22 AWG Yellow														
1	0	.140 x .525	.082	A27224-ND	.83	.73	321013	—	—	—	—	—	—	—
	2	.140 x .525	.082	A0879-ND	.23	.20	323912	A0879CT-ND	—	200.00	A0879TR-ND	4,000	160.00/M	2-323912-1
		.140 x .615		A27225-ND	.26	.23	329951	—	—	—	—	—	—	—
	4	.203 x .646	.082	A0880-ND	.23	.21	323914	—	—	—	—	—	—	—
	6	.203 x .646	.082	A0881-ND	.23	.20	323915	—	—	—	—	—	—	—
		.250 x .740		A27226-ND	.23	.21	326875	A27226CT-ND	—	178.53	A27226TR-ND	4,000	142.82/M	2-326875-1
	8	.250 x .740	.082	A0882-ND	.27	.24	323916	A0882CT-ND	—	357.03	A0882TR-ND	4,000	285.62/M	2-323916-1
	10	.250 x .740	.082	A0883-ND	.31	.27	324075	—	—	—	—	—	—	—
24-20 AWG Natural														
1	2	.160 x .589	.100	A27495-ND	.71	.63	329636	—	—	—	—	—	—	—
	6	.281 x .774		A27496-ND	.28	.25	323986	—	—	—	—	—	—	—
	8	.312 x .821		A27497-ND	.28	.25	323989	—	—	—	—	—	—	—
	10	.312 x .821		A27498-ND	.32	.28	323990	—	—	—	—	—	—	—
22-16 AWG Red														
1	2	.182 x .669	.125	A27499-ND	.83	.73	324158	—	—	—	—	—	—	—
		.182 x .669	.140	A27500-ND	.23	.20	320773	—	—	—	—	—	—	—
		.218 x .672	.125	A0884-ND	.23	.20	328657	—	—	—	—	—	—	—
	4	.182 x .669	.140	A27228-ND	.22	.20	320882	A27228CT-ND	—	258.98	A27228TR-ND	5,000	207.18/M	2-320882-1
		.218 x .672	.125	A27227-ND	.23	.21	320553	A27227CT-ND	—	178.53	A27227TR-ND	5,000	142.82/M	2-320553-2
		.218 x .672	.140	A1087-ND	.23	.21	31880	A1087CT-ND	—	178.53	A1087TR-ND	5,000	142.82/M	2-31880-1
		.250 x .844	.125	A27229-ND	.32	.28	323758	A27229CT-ND	—	433.83	A27229TR-ND	5,000	347.06/M	2-323758-1
		.250 x .844	.140	A27230-ND	.32	.28	330648	—	—	—	—	—	—	—
	6	.218 x .672	.125	A27231-ND	.23	.21	36149	A27231CT-ND	—	178.53	A27231TR-ND	5,000	142.82/M	2-36149-2
		.218 x .672	.140	A27232-ND	.23	.21	36150	A27232CT-ND	—	178.53	A27232TR-ND	5,000	142.82/M	2-36150-1
		.250 x .782	.125	A27233-ND	.16	.15	51863	A27233CT-ND	—	124.48	A27233TR-ND	5,000	99.58/M	51863-1
		.281 x .797	.125	A27234-ND	.16	.14	36151	A27234CT-ND	—	173.03	A27234TR-ND	5,000	138.42/M	2-36151-2
		.281 x .797	.140	A1060-ND*	.16	.08	36152	A1060CT-ND*	—	120.63	A1060TR-ND*	5,000	96.50/M	2-36152-1
		.312 x .844	.125	A27235-ND	.28	.25	323008	A27235CT-ND	—	173.03	A27235TR-ND	5,000	138.42/M	2-323008-1
		.312 x .844	.140	A27236-ND	.23	.20	326878	—	—	—	—	—	—	—
	8	.281 x .797	.125	A27239-ND	.23	.20	320554	A27239CT-ND	—	173.03	A27239TR-ND	5,000	138.42/M	2-320554-1
		.281 x .797	.140	A27238-ND	.23	.20	31886	A27238CT-ND	—	128.18	A27238TR-ND	5,000	102.54/M	2-31886-2
		.312 x .844	.140	A1061-ND	.16	.08	31890	A1061CT-ND	—	124.48	A1061TR-ND	5,000	99.58/M	2-31890-1
		.312 x .844	.125	A27511-ND	.23	.20	31888	—	—	—	—	—	—	—
		.312 x .844	.125	A27237-ND	.16	.15	320551	A27237CT-ND	—	124.48	A27237TR-ND	5,000	99.58/M	1-320551-1
		.344 x .876	.140	A27240-ND	1.03	.91	32835	—	—	—	—	—	—	—
	10	.281 x .797	.125	A27243-ND	.23	.20	320552	A27243CT-ND	—	173.03	A27243TR-ND	5,000	138.42/M	2-320552-1
		.281 x .797	.140	A27242-ND	.20	.18	31887	A27242CT-ND	—	173.03	A27242TR-ND	5,000	138.42/M	2-31887-1
		.312 x .844	.125	A27241-ND	.16	.15	36153	A27241CT-ND	—	124.48	A27241TR-ND	5,000	99.58/M	2-36153-2
		.312 x .844	.140	A1062-ND*	.16	.08	36154	A1062CT-ND*	—	124.48	A1062TR-ND*	5,000	99.58/M	2-36154-2
		.344 x .876	.125	A27244-ND	1.02	.90	32836	—	—	—	—	—	—	—
		.344 x .876	.140	A27245-ND	.22	.19	32837	—	—	—	—	—	—	—
	1/4	.469 x 1.078	.125	A27246-ND	.27	.24	320571	A27246CT-ND	—	205.90	A27246TR-ND	5,000	164.72/M	2-320571-2
		.469 x 1.078	.140	A0885-ND	.27	.24	31894	A0885CT-ND	—	143.58	A0885TR-ND	5,000	114.86/M	2-31894-2
	5/16	.469 x 1.078	.125	A27247-ND	.27	.24	320572	—	—	—	—	—	—	—
		.469 x 1.078	.140	A0886-ND	.26	.23	31895	A0886CT-ND	—	205.90	A0886TR-ND	5,000	164.72/M	2-31895-1
	3/8	.531 x 1.218	.140	A0887-ND	.33	.29	31897	—	—	—	—	—	—	—
		.531 x 1.218	.125	A27248-ND	.28	.25	320573	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.140	A0888-ND	.69	.61	328975	—	—	—	—	—	—	—
16-14 AWG Blue														
1	4	.250 x .703	.150	A27249-ND	.26	.23	324159	A27249CT-ND	—	173.03	A27249TR-ND	5,000	138.42/M	2-324159-2
		.250 x .703	.170	A1091-ND	.23	.20	328996	A1091CT-ND	—	173.00	A1091TR-ND	5,000	138.40/M	2-328996-1
		.250 x .813	.150	A27502-ND	.68	.60	323676	—	—	—	—	—	—	—
	6	.250 x .703	.150	A27253-ND	.23	.21	320561	A27253CT-ND	—	178.53	A27253TR-ND	5,000	142.82/M	2-320561-2
		.250 x .703	.170	A1070-ND	.16	.08	320619	—	—	—	—	—	—	—
		.250 x .813	.170	A27504-ND	.36	.31	50881	—	—	—	—	—	—	—
		.312 x .813	.170	A27254-ND	.23	.20	326882	A27254CT-ND	—	173.03	A27254TR-ND	5,000	138.42/M	2-326882-1
		.312 x .844	.150	A27250-ND	.23	.21	51864	A27250CT-ND	—	178.53	A27250TR-ND	5,000	142.82/M	51864-3
		.343 x .859	.150	A27251-ND	.23	.20	36157	A27251CT-ND	—	173.03	A27251TR-ND	5,000	138.42/M	2-36157-2
		.343 x .859	.170	A27252-ND	.23	.20	36158	A27252CT-ND	—	173.03	A27252TR-ND	5,000	138.42/M	2-36158-1
	8	.312 x .813	.170	A27257-ND	.34	.30	53941-1	A27257CT-ND	—	344.08	A27257TR-ND	5,000	275.26/M	53941-2
		.312 x .844	.150	A27255-ND	.23	.21	51864-1	A27255CT-ND	—	178.53	A27255TR-ND	5,000	142.82/M	51864-5
		.343 x .859	.150	A27256-ND	.23	.20	320560	A27256CT-ND	—	173.03	A27256TR-ND	5,000	138.42/M	2-320561-1
		.343 x .859	.170	A1071-ND	.16	.08	320565	A1071CT-ND	—	120.63	A1071TR-ND	5,000	96.50/M	2-320565-1
	10	.312 x.844	.150	—	—	—	—	A28118CT-ND*	—	153.06	A28118TR-ND*	5,000	156.98/M	51861-4
		.312 x .813	.170	A27260-ND	.23	.20	53942-1	A27260CT-ND	—	173.03	A27260TR-ND	5,000	138.42/M	53942-2
		.312 x .844	.150	A27258-ND	.23	.21	51864-2	—	—	—	—	—	—	—
		.343 x .859	.150	A27259-ND	.23	.20	320574	A27259CT-ND	—	173.03	A27259TR-ND	5,000	138.42/M	2-320574-2
		.343 x .859	.170	A1072-ND	.16	.08	36160	A1072CT-ND	—	120.63	A1072TR-ND	5,000	96.50/M	2-36160-1
		.343 x .859	.170	A27512-ND*	.26	.23	31903	—	—	—	—	—	—	—
		.469 x 1.078	.170	A27261-ND	.44	.39	324533	—	—	—	—	—	—	—
	1/4	.469 x 1.078	.150	A27262-ND	.27	.24	320563	A27262CT-ND	—	205.90	A27262TR-ND	4,000	164.72/M	2-320563-2
		.469 x 1.078	.170	A0889-ND	.18	.09	321045	A0889CT-ND	—	199.58	A0889TR-ND	4,000	159.66/M	2-321045-1

*Vinyl Insulation † Heavy duty for extra mechanical strength.

(Continued)

PIDG Ring Terminals *(Cont.)*

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
16-14 AWG Blue (cont.)														
1	5/16	.469 x 1.078	.150	A27263-ND	.27	.24	320575	—	—	—	—	—	—	—
			.170	A0890-ND	.26	.23	328998	—	—	—	—	—	—	—
	3/8	.531 x 1.218	.150	A27264-ND	.28	.25	320564	—	—	—	—	—	—	—
			.170	A0891-ND	.31	.27	328999	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.150	A27265-ND	.87	.76	328976	—	—	—	—	—	—	—
			.170	A0892-ND	.84	.74	328849	—	—	—	—	—	—	—
16-14 AWG Yellow/Black †														
1	6	.281 x .953	.230	A27267-ND	.39	.34	320631	—	—	—	—	—	—	—
			.250	A27266-ND	.49	.43	35634	—	—	—	—	—	—	—
	8	.343 x 1.046	.230	A09035-ND	.38	.34	320627	A09035CT-ND	178.15	323.90	A09035TR-ND	2,500	259.12/M	1-320627-0
			.250	A27268-ND	.42	.37	35106	A27268CT-ND	133.35	242.45	A27268TR-ND	2,500	193.96/M	2-35106-1
	10	.343 x 1.046	.230	A09036-ND	.48	.42	320630	A09036CT-ND	172.73	314.05	A09036TR-ND	2,500	251.24/M	2-320630-2
			.250	A27269-ND	.43	.38	34805	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.230	A27270-ND	.39	.34	34974	—	—	—	—	—	—	—
		.500 x 1.188	.250	A27506-ND	.54	.48	323682	A27506CT-ND	232.69	423.08	A27506TR-ND	2,500	338.46/M	2-323682-1
		.531 x 1.296	.230	A27271-ND	.29	.26	327743	—	—	—	—	—	—	—
		.531 x 1.296	.250	A09037-ND	.47	.42	34806	—	—	—	—	—	—	—
	5/16	.531 x 1.296	.250	A27507-ND	.53	.46	34810	—	—	—	—	—	—	—
	3/4	1.25 x 2.219	.250	A27509-ND	1.83	1.61	322724	—	—	—	—	—	—	—
	3/8	.531 x 1.296	.230	A27508-ND	.55	.48	330896	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A09038-ND	.76	.67	35316	—	—	—	—	—	—	—
12-10 AWG Yellow														
1	4	.281 x .953	.250	A27272-ND	.47	.42	35148	—	—	—	—	—	—	—
	6	.281 x .953	.230	A27273-ND	.33	.29	320634	—	—	—	—	—	—	—
		.281 x .953	.250	A0893-ND	.29	.26	35149	—	—	—	—	—	—	—
		.312 x 1.052	.230	A27274-ND	.43	.38	326886	—	—	—	—	—	—	—
		.375 x 1.083	.230	A27276-ND	.30	.27	320567	A27276CT-ND	127.01	230.93	A27276TR-ND	2,500	184.74/M	2-320567-2
		.375 x 1.083	.250	A27275-ND	.30	.27	35107	—	—	—	—	—	—	—
	8	.312 x 1.031	.230	A27277-ND	.33	.29	35787	—	—	—	—	—	—	—
		.312 x 1.052	.230	A27278-ND	.44	.38	324915	—	—	—	—	—	—	—
		.375 x 1.083	.230	A27280-ND	.30	.27	320568	A27280CT-ND	127.01	230.93	A27280TR-ND	2,500	184.74/M	2-320568-1
		.375 x 1.083	.250	A1081-ND	.21	.10	35108	—	—	—	—	—	—	—
		.375 x 1.172	.300	A27279-ND*	1.07	.95	35605	—	—	—	A27279TR-ND*	1,000	350.44	2-35605-2
	10	.312 x 1.052	.230	A27282-ND	.43	.38	324918	—	—	—	—	—	—	—
		.343 x 1.046	.230	A27281-ND	.33	.29	32883	A27281CT-ND	441.17	802.13	A27281TR-ND	2,500	641.70/M	1-32883-0
		.375 x 1.083	.230	A27284-ND	.21	.18	36161	A27284CT-ND	85.40	155.28	A27284TR-ND	2,500	124.22/M	2-36161-2
		.375 x 1.083	.250	A1082-ND	.21	.10	35109	A1082CT-ND	85.40	155.28	A1082TR-ND	2,500	124.22/M	2-35109-1
		.375 x 1.172	.300	A27283-ND*	.62	.55	35364	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.230	A27285-ND	.32	.29	35273	A27285CT-ND	268.48	488.15	A27285TR-ND	2,500	390.52/M	2-35273-2
		.500 x 1.277	.300	A27286-ND*	1.15	1.01	323763	—	—	—	—	—	—	—
		.531 x 1.322	.230	A27288-ND	.35	.31	320569	A27288CT-ND	146.23	265.88	A27288TR-ND	2,500	212.70/M	2-320569-3
		.531 x 1.322	.250	A1083-ND	.35	.28	35110	A1083CT-ND	146.23	265.88	A1083TR-ND	2,500	212.70/M	2-35110-1
		.531 x 1.416	.300	A27287-ND*	.67	.59	35345	—	—	—	—	—	—	—
	3/8	.593 x 1.414	.250	A1084-ND	.35	.28	35112	—	—	—	—	—	—	—
		.593 x 1.414	.230	A27291-ND	.35	.31	320577	—	—	—	—	—	—	—
		.593 x 1.510	.300	A28077-ND*	1.21	1.07	35478	—	—	—	A28077TR-ND*	750	408.18	1-35478-0
		.750 x 1.594	.250	A27510-ND	1.04	.92	35150	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A0894-ND	.55	.48	35151	—	—	—	—	—	—	—
	5/16	.531 x 1.322	.250	A1095-ND	.35	.28	35111	A1095CT-ND	146.23	265.88	A1095TR-ND	2,500	212.70/M	2-35111-1
		.531 x 1.322	.230	A27290-ND	.35	.31	320576	—	—	—	—	—	—	—
		.531 x 1.416	.300	A27289-ND*	1.15	1.01	35346	—	—	—	—	—	—	—

*Vinyl Insulation † Heavy duty for extra mechanical strength.

PIDG Slotted Ring Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
2	26-22 Yellow	6	.250 x .719	.082	A27448-ND	.26	.23	323011	A27448CT-ND	195.75	A27448TR-ND	4,000	156.60/M	2-323011-2
	22-16 Red	8	.281 x .770	.140	A27449-ND	.59	.52	36954	—	—	—	—	—	—

PIDG Ring Tongue Insulation Restricting Terminals

Fig.	AWG	Stud Size	Dim. – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	22 Red/Green	4	.218 x .734	.038 - .110	A27334-ND	.32	.28	52273
		6	.250 x .844		A27335-ND	.32	.28	51863-2
		8	.312 x .906		A27336-ND	.32	.28	1-320551-2
		10	.312 x .906		A27337-ND	.32	.28	2-36153-3
	20 Red/Red	4	.218 x .734	.046 - .110	A27338-ND	.28	.25	52273-1
		6	.218 x .734		A27339-ND	.32	.28	2-36149-4
		6	.250 x .844		A27340-ND	.32	.28	51863-3
		8	.312 x .906		A27341-ND	.32	.28	1-320551-3
		10	.312 x .906		A27342-ND	.32	.28	2-36153-4
	18 Red/White	6	.218 x .734	.056 - .110	A27343-ND	.32	.28	2-36149-5
		6	.250 x .844		A27344-ND	.32	.28	51863-4
		8	.312 x .906		A27345-ND	.32	.28	1-320551-4
		10	.312 x .906		A27346-ND	.32	.28	2-36153-5
	16 Blue/Blue	6	.250 x .765	.063 - .130	A27347-ND	.36	.32	2-320561-3
		6	.312 x .906		A27348-ND	.32	.28	51864-6
		8	.312 x .906		A27349-ND	.36	.32	1-51864-0
		10	.312 x .906		A27350-ND	.28	.25	51864-7
		1/4	.469 x 1.140		A27513-ND	.60	.53	2-320563-3
	14 Blue/Green	6	.312 x .906	.078 - .130	A27351-ND	1.18	1.04	51864-8
		8	.312 x .906		A27352-ND	.28	.25	1-51864-1
		10	.312 x .906		A27353-ND	.32	.28	51864-9
		1/4	.469 x 1.140		A27514-ND	.50	.44	2-320563-4
	12 Yellow/Yellow	6	.375 x 1.148	.095 - .200	A27354-ND	.55	.49	2-36161-5
		8	.375 x 1.148		A27355-ND	.42	.37	2-320568-2
		10	.375 x 1.148		A27356-ND	.42	.37	2-36161-3
		1/4	.531 x 1.392		A27515-ND	1.10	.97	2-320569-5
	10 Yellow/Brown	8	.375 x 1.148	.119 - .200	A27357-ND	.48	.42	2-320568-3
		10	.375 x 1.148		A27358-ND	.50	.44	2-36161-4
		1/4	.531 x 1.392		A27516-ND	.98	.87	2-320569-6
		5/16	.531 x 1.392		A27517-ND	.69	.61	2-320576-3

PIDG Ring Tongue Radiation Resistant

Fig.	AWG	Stud Size	Dimensions - Inch W x L	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	22-16 Red	6	.218 x .672	.125	A27292-ND	.36	.32	53406-1
		6	.250 x .782		A27293-ND	.36	.32	53407-1
		8	.312 x .844		A27294-ND	.41	.36	53408-1
		10	.312 x .844		A27295-ND	.41	.36	53409-1
	16-14 Blue	6	.250 x .703	.150	A27296-ND	.42	.37	53415-1
		6	.312 x .844		A27297-ND	.40	.35	53416-1
		8	.312 x .844		A27298-ND	.45	.40	53417-1
		10	.312 x .844		A27299-ND	.41	.36	53418-1
	12-10 Yellow	8	.375 x 1.083	.230	A27300-ND	.68	.60	53424-1
		10	.375 x 1.083		A27301-ND	.64	.56	53425-1

PIDG Offset Ring Tongue Terminals

Fig.	AWG	Stud Size	Dim. – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
3	22-16 Red	6	.375 x .906	.125	A27526-ND	.37	.32	323039
		10			A27527-ND	.51	.45	324011
	16-14 Blue	6	.375 x .906	.150	A27528-ND	.51	.45	323817
		10			A27529-ND	.47	.41	323818

Tools

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$66.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$112.50**

PIDG Spade Terminals

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts: • Temperature Rating:** 105°C Max. **• AMP Wire:** Solid or Stranded **• Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. **• Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. **• Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

Fig. 1

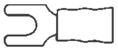


Fig. 2

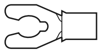
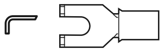


Fig. 3



PIDG Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
1	26-22 Yellow	4	.203 x .627	.082	A27415-ND	.24	.21	321035	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.140	A0895-ND	.23	.20	328394	—	—	—	—	—	—	—
		4	.218 x .674		A0896-ND	.27	.24	327717	—	—	—	—	—	—	—
		6	.250 x .846	.140	A1063-ND	.16	.08	34541	A1063CT-ND	—	173.03	A1063TR-ND	5,000	138.42/M	2-34541-1
			.297 x .753	.125	A27416-ND	.23	.20	34080	A27416CT-ND	—	173.03	A27416TR-ND	5,000	138.42/M	2-34080-1
			.297 x .753	.140	A27417-ND	.23	.20	326861	—	—	—	—	—	—	—
		8	.375 x .908	.125	A27418-ND	.31	.27	32050	A27418CT-ND	—	392.40	A27418TR-ND	5,000	313.92/M	2-32050-1
			.375 x .908	.140	A1064-ND	.23	.20	32053	—	—	—	—	—	—	—
		10	.375 x .908	.125	A27419-ND	1.00	.88	32051	—	—	—	—	—	—	—
			.375 x .908	.140	A1065-ND	.23	.20	32054	—	—	—	—	—	—	—
	16-14 Blue	6	.244 x .846	.170	A27421-ND	.24	.21	328281	A27421CT-ND	—	448.50	A27421TR-ND	5,000	358.80/M	1-328281-1
			.297 x .753		A1073-ND	.23	.20	35559	A1073CT-ND	—	173.03	A1073TR-ND	5,000	138.42/M	2-35559-1
			.385 x .908		A27420-ND	.23	.20	32058	—	—	—	—	—	—	—
		8	.297 x .753	.170	A1074-ND	.26	.23	321233	A1074CT-ND	—	196.23	A1074TR-ND	5,000	156.98/M	2-321233-1
			.312 x 1.034	.170	A27519-ND	.30	.26	325199	—	—	—	—	—	—	—
			.385 x .908	.150	A27422-ND	.40	.35	32056	—	—	—	—	—	—	—
			.385 x .908	.170	A0897-ND	.23	.20	32059	—	—	—	—	—	—	—
		10	.385 x .908	.150	A27520-ND	.41	.37	32057	—	—	—	—	—	—	—
			.385 x .908	.170	A1075-ND	.26	.23	32060	A1075CT-ND	—	346.03	A1075TR-ND	5,000	276.82/M	2-32060-1
	12-10 Yellow	6	.290 x .954	.230	A27423-ND	.47	.42	322985	—	—	—	—	—	—	—
			.312 x 1.095		A27424-ND	.45	.39	326859	A27424CT-ND	368.54	670.08	A27424TR-ND	2,500	536.06/M	2-326859-1
		8	.406 x 1.095	.230	A0898-ND	.33	.29	32588	—	—	—	—	—	—	—
		10	.406 x 1.095	.230	A1085-ND	.33	.27	32589	—	—	—	—	—	—	—

PIDG Spring Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
Short															
2	26-22 Yellow	4	.203 x .695	.082	A27434-ND	.40	.35	52922	A27434CT-ND	—	443.93	A27434TR-ND	5,000	355.14/M	52922-1
		6	.250 x .679		A27435-ND	.33	.29	52924	A27435CT-ND	—	249.13	A27435TR-ND	4,000	149.48/M	52924-1
		8	.375 x .787		A27436-ND	1.24	1.09	52925	—	—	—	—	—	—	—
	22-16 Red	4	.203 x .799	.125	A0902-ND	.23	.20	52927	—	—	—	—	—	—	—
		5	.250 x .799	.125	A27437-ND	.35	.31	52928	A27437CT-ND	—	195.75	A27437TR-ND	5,000	156.60/M	52928-1
		6	.250 x .799	.125	A1067-ND	.26	.23	52929	A1067CT-ND	—	136.48	A1067TR-ND	5,000	109.18/M	52929-1
		6	.250 x .799	.140	—	—	—	—	A28004CT-ND	—	221.98	A28004TR-ND	5,000	177.58/M	52929-3
		8	.375 x .860	.125	A1089-ND	.26	.23	52930	A1089CT-ND	—	221.98	A1089TR-ND	5,000	177.58/M	52930-1
		10	.406 x .908	.125	A1099-ND	.37	.33	52931	A1099CT-ND	—	195.75	A1099TR-ND	5,000	156.60/M	52931-1
	16-14 Blue	5	.250 x .799	.170	A28166-ND	.37	.32	52934	A28166CT-ND	—	391.48	A28166TR-ND	5,000	313.18/M	52934-1
		6	.250 x .799	.170	A1078-ND	.26	.23	52935	—	—	—	—	—	—	—
		6	.250 x .799	.182	A27438-ND	.26	.23	52935-2	—	—	—	—	—	—	—
		8	.375 x .860	.170	A1093-ND	.29	.26	52936	A1093CT-ND	—	195.75	A1093TR-ND	5,000	156.60/M	52936-1
		8	.375 x.860	.182	A28167-ND	.44	.39	52936-2	A28167CT-ND	—	391.48	A28167TR-ND	5,000	313.18/M	52936-3
		10	.406 x .908	.170	A1094-ND	.29	.26	52937	—	—	—	—	—	—	—
		10	.406 x .908	.182	A28168-ND	.95	.84	52937-2	—	—	—	—	—	—	—
	12-10 Yellow	6	.250 x .959	.250	A1096-ND	.33	.27	52941	A1096CT-ND	138.44	251.70	A1096TR-ND	2,500	201.36/M	52941-1
		8	.375 x 1.052		A1097-ND	.38	.30	52942	A1097CT-ND	138.44	251.70	A1097TR-ND	2,500	201.36/M	52942-1
		10	.406 x 1.100		A1098-ND	.38	.30	52943	—	—	—	—	—	—	—
		1/4	.625 x 1.225		A27439-ND	.77	.68	52945	—	—	—	—	—	—	—
Long															
2	22-16 Red	6	.250 x .933	.125	A09040-ND	.47	.41	52409	—	—	—	—	—	—	—
		6	.250 x .933	.140	A28156-ND	.46	.40	52409-2	—	—	—	—	—	—	—
		8	.281 x .979	.125	A09041-ND	.41	.36	52410	A09041CT-ND	—	195.75	A09041TR-ND	5,000	156.60/M	52410-1
		10	.343 x 1.005	.125	A09042-ND	.95	.84	52411	—	—	—	—	—	—	—
	16-14 Blue	6	.250 x .933	.150	A09043-ND	.29	.26	52420	A09043CT-ND	—	443.93	A09043TR-ND	5,000	355.14/M	52420-2
		6	.250 x .933	.170	A27446-ND	.55	.48	52420-1	A27446CT-ND	—	221.98	A27446TR-ND	5,000	177.58/M	52420-3
		8	.281 x .979	.150	A09044-ND	.49	.43	52421	—	—	—	—	—	—	—
		8	.281 x .979	.170	A27447-ND	.29	.26	52421-1	—	—	—	—	—	—	—
		10	.343 x 1.005	.170	A09045-ND	.29	.26	52422-1	—	—	—	—	—	—	—
	12-10 Yellow	6	.312 x 1.131	.250	A27521-ND	.59	.52	52430-1	—	—	—	—	—	—	—
		8	.375 x 1.174		A27522-ND	.61	.53	52431-1	—	—	—	—	—	—	—
		10	.375 x 1.219		A27523-ND	.70	.62	52432-1	A27523CT-ND	363.04	660.08	A27523TR-ND	2,500	528.06/M	52432-3
		1/4	.437 x 1.289		A27524-ND	.65	.58	52433-1	—	—	—	—	—	—	—

PIDG Flanged Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
3	26-22 Yellow	2	.182 x .649	.082	A27426-ND	.69	.61	324597	—	—	—	—	—	—	—
		4	.196 x .649		A27427-ND	1.92	1.69	52369	—	—	—	—	—	—	—
		6	.250 x .649		A27428-ND	.60	.53	51874	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.125	A27429-ND	1.09	.96	2-324608-2	—	—	—	—	—	—	—
		2	.182 x .727	.140	A0899-ND	.29	.26	324608	—	—	—	—	—	—	—
		6	.250 x .737	.125	A27431-ND	.25	.22	322777	A27431CT-ND	—	188.80	A27431TR-ND	5,000	151.04/M	2-322777-1
		6	.296 x .737	.125	A27430-ND	.25	.22	32561	A27430CT-ND	—	188.80	A27430TR-ND	5,000	151.04/M	2-32561-1
		6	.296 x .737	.140	A1066-ND	.25	.22	32562	A1066CT-ND	—	188.80	A1066TR-ND	5,000	151.04/M	2-32562-1
		8	.416 x .830	.140	A1088-ND	.53	.47	32498	A1088CT-ND	—	489.95	A1088TR-ND	5,000	391.96/M	2-32498-1
	16-14 Blue	6	.294 x .737	.170	A1076-ND	.25	.22	320861	A1076CT-ND	—	188.80	A1076TR-ND	5,000	151.04/M	2-320861-1
		8	.294 x .737		A1077-ND	.25	.22	320862	A1077CT-ND	—	214.13	A1077TR-ND	5,000	171.30/M	2-320862-1
		8	.416 x .830		A27518-ND	.95	.84	33156	—	—	—	—	—	—	—
		10	.294 x .737		A1092-ND	.24	.21	320863	A1092CT-ND	—	214.13	A1092TR-ND	5,000	171.30/M	2-320863-2
	12-10 Yellow	6	.296 x 1.017	.250	A0900-ND	.64	.57	325150	—	—	—	—	—	—	—
		6	.328 x 1.017	.230	A27432-ND	.73	.64	324587	—	—	—	—	—	—	—
		8	.416 x 1.017	.230	A09039-ND	.32	.29	32510	A09039CT-ND	244.53	444.60	A09039TR-ND	2,500	355.68/M	2-32510-1
		10	.416 x 1.017	.250	A0901-ND	.99	.87	324015	A0901CT-ND	192.90	350.73	A0901TR-ND	2,500	280.58/M	2-324015-1

Tools

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$66.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$112.50**

PIDG Knife Disconnect & Butt Splices

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts:** • **Temperature Rating:** 105°C Max. • **AMP Wire:** Solid or Stranded • **Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. • **Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. • **Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

PIDG - Spare Wire Caps: **Material:** Copper Tin Plated, Insulation: Nylon

PIDG - Butt Splice Step Down Adapter Inserts: **Material:** • Adapter Body: Copper per ASTM B-152 • Plating: Zinc/DyeChromate

Fig. 1

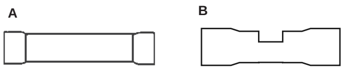


Fig. 2

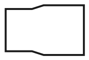
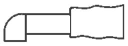


Fig. 3

For Unstripped Wire

For Stripped Wire

Fig. 4



PIDG Butt Splices

Fig.	AWG Color	Dim. - Inch Length	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	100	Amp Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	Amp Part No.
1a	26-22 Yellow	—	.082	A0913-ND	.58	.51	2-323994-2	—	—	—	—	—	—	—
	22-16 Red‡	1.265	.125	A1069-ND	.57	.27	320559	A1069CT-ND	224.14	407.53	A1069TR-ND	2,500	326.02/M	2-320559-4
	16-14 Blue	1.265	.150	A1080-ND	.57	.27	320562	A1080CT-ND	341.52	620.95	A1080TR-ND	2,500	496.76/M	2-320562-3
	12-10 Yellow	1.656	.220	A1086-ND	.96	.46	320570	—	—	—	—	—	—	—
1b	26-22 Yellow†	.890	.082	A27450-ND	.57	.50	323994	—	—	—	—	—	—	—
	24-20 Natural	1.035	.100	A27451-ND	.45	.40	323975	—	—	—	—	—	—	—
Step Down Type (with adapter insert)														
1b	16-14 to 22-18 Blue	1.265	.150/.115	A27452-ND*	1.09	.96	327583	A27452CT-ND*	630.84	1146.98	A27452TR-ND*	2,500	917.58/M	2-320562-3
	12-10 to 16-14 Yellow	1.656	.220/.170	A27453-ND	1.67	1.47	327638	—	—	—	—	—	—	—
	12-10 to 22-16 Yellow	1.656	.220/.140	A27454-ND	2.03	1.79	327639	—	—	—	—	—	—	—
Radiation Resistant														
1b	22-16 Red Stripe	1.265	.125	A27455-ND	1.03	.91	53548-1	—	—	—	—	—	—	—
	16-14 Blue Stripe	1.265	.150	A27456-ND	1.03	.91	53549-1	—	—	—	—	—	—	—
	12-10 Yellow Stripe	1.656	.220	A27457-ND	1.56	1.38	53550-1	—	—	—	—	—	—	—

* Includes adapter insert † 26-22 splices are 26-24 range in accordance with MIL-T-7928 ‡ 22-16 splices are 22-18 range in accordance with MIL-T-7928

PIDG - Spare Wire Caps

Fig.	AWG	Insulation Diameter Inch	Cap Insulation Color	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Unstripped Wire							
3	—	.048 - .075	Transparent	A27478-ND	.25	.22	324484
		.080 - .115	Red	A27479-ND	.27	.24	324485
		.120 - .145	Blue	A27480-ND	.32	.28	324486
		.080 - .115	Red	A27569-ND*	.40	.35	324694
		.120 - .145	Blue	A27570-ND*	.41	.36	324695
Stripped Wire							
3	22-18	.124	Red	A27481-ND	.29	.26	328307
	16-14	.149	Blue	A27482-ND	.37	.33	328308
	12-10	.210	Yellow	A27483-ND	.42	.37	328309

* Moisture Resistant

PIDG - Butt Splice Step Down Adapter Inserts

Fig.	AWG	Use With Butt Splices	Digi-Key Part No.	Price Each 10	100	AMP Part No.
2	22-18 Red	A1080-ND	A27458-ND	.21	.19	327635
	22-18 Red	A1086-ND	A27459-ND	.58	.51	327636
	16-14 Blue	A1086-ND	A27460-ND	.38	.33	327637

PIDG Knife Disconnect Splices

Fig.	AWG	Dim. - Inch Length	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	100	AMP Part No.
4	22-16 Red	.878	.125 .140	A27473-ND A1068-ND	.49 .44	.43 .31	320555 32446
	16-14 Blue	.878	.150 .170	A27474-ND A1079-ND	.49 .44	.43 .31	320566 32448
	12-10 Yellow	1.260	.250	A09046-ND	1.33	1.17	35762

Tools

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$66.00**
A09093-ND	Sealed Splice Connector Kit (includes 10 [12-10 AWG] splice, 15 [22-18 AWG] splice, 25 [16-14 AWG] splice, molded case and crimping tool	**$112.29**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$112.50**
A27484-ND	Long Handle Tool for PIDG Spare Wire Caps (22-18 AWG)	**$262.50**
A27485-ND	Heavy Head Tool for PIDG Spare Wire Caps (12-10 AWG)	**$478.50**
A27486-ND	T-Head Tool for PIDG Spare Wire Caps (22-18 and 16-14 AWG)	**$796.50**

ELECTRO-TAP Connectors and Closed End Splices

ELECTRO-TAP Cable Connector/Splice

• **Housing Material:** Nylon • **Contact Material:** Brass • **Contact Plating:** Tin

Fig.	AWG	Insul. Dia. Inch	Dimension – Inch L	W	H	Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
1	22-18	.160	.687	.484	.444	Red	A1050-ND	.40	.32	53440-2
	14-18					Blue	A1051-ND	.40	.32	53440-1

Fig. 1

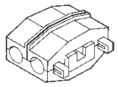


Fig. 2

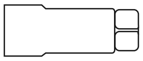
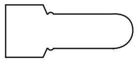


Fig. 3



Closed End Splices

• For single and multiple wire applications • Nylon or vinyl or PVF² insulated • Temperature Ratings of 90°C, 105°C, 150°C • 300V, 600V or 1000V rated • Crescent crimp configuration • Covers wire ranges from 24 to 6 AWG (0.2 to =16 mm²); 509 to 42, 700 CMA • Copper or steel splice material • Plated or unplated • Solid or stranded copper wire • UL and CSA approved

Fig.	AWG	Insul. Color	Mat'l.	Open. Dia. Inch	Length Inch	Splice Mark*	Digi-Key Part No.	Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	Amp Part No.
Vinyl BOMB-TAIL Splices																	
2	22-16	Blue	Copper	.173	.750	VS	A09052-ND	.24	.21	34306	—	—	—	—	—	—	—
		Blue	Copper	.215	.800	VS	A27567-ND	.24	.21	34864	—	—	—	—	—	—	—
		Trans.	Steel	.265	1.000	ECV	A27476-ND	.14	.12	328890	—	—	—	—	—	—	—
		Trans.	Steel	.265	.825	ECV	A09053-ND	.11	.10	330021	—	—	—	—	—	—	—
	22-14	Red	Copper	.156	.729	VS	A09054-ND	.24	.22	34304	—	—	—	—	—	—	—
		Purple		.187	.740	VS	A09055-ND	.09	.04	36964	A09055CT-ND	58.82	106.95	A09055TR-ND	2,500	64.18/M	2-36964-2
		Purple		.235	.775	VS	A27475-ND	.12	.11	2-328375-3	—	—	—	—	—	—	—
		Purple		.235	.900	ECV	A27568-ND	.15	.13	55843-1	—	—	—	—	—	—	—
	22-12	Trans.	Copper	.360	1.500	ECV	A09056-ND	.14	.12	53234-1	—	—	—	—	—	—	—
					1.125		A27571-ND	.13	.12	329251	—	—	—	—	—	—	—
	22-10	Yellow	Copper	.235	.975	VS	A09059-ND	.27	.24	34308	—	—	—	—	—	—	—
		Yellow		.300	1.010	VS	A09060-ND	.97	.86	34865	—	—	—	—	—	—	—
		Purple		.312	1.010	VS	A09057-ND	.13	.12	36965	A09057CT-ND	63.57	115.58	A09057TR-ND	1,500	69.35/M	1-36965-1
		Purple		.360	1.125	ECV	A09058-ND	.10	.05	321519	—	—	—	—	—	—	—
	18-8	Green	Copper	.500	1.575	ECV	A09061-ND	.40	.35	320788	—	—	—	—	—	—	—
Nylon Molded Splices																	
2	22-14	Trans.	Copper	.250	.680	ECN	A09062-ND	.13	.06	35115	A09062CT-ND	68.09	123.80	A09062TR-ND	2,500	99.04/M	1-35115-0
3	22-10	Trans.	Copper	.375	.775	ECN	A09063-ND	.12	.06	35653	A09063CT-ND	74.91	136.20	A09063TR-ND	1,500	108.96/M	2-35653-1
					.970	EC	A09064-ND	.17	.15	53915-1	A09064CT-ND	113.08	205.60	A09064TR-ND	1,500	123.36/M	53915-2
					.720	EC	A27477-ND	.11	.10	328730	A27477CT-ND	55.78	101.43	A27477TR-ND	1,500	60.86/M	2-328730-1

* **VS** = 300V, 90°C **ECV** = 600V max. Building Wiring, 1000V max. Fixtures and Signs, 105°C UL, 90°C CSA **ECN** = 300V, 105°C **EC** = 600V max. Building Wiring, 1000V max. Fixtures and Signs, 105°C

Plasti-Grip™ Terminals and Splices

Temperature Rating: 90°C Max. **Material:** • Insulation: Vinyl • Terminal Body: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727 (spring spade terminals are phosphor bronze per ASTM B-139 or brass per ASTM B-36 and tin-plated per MIL-T-10727) **Voltage:** 600V Max (1000V Fixture or Sign).

Recognized under the component program of Underwriters Laboratories Incorporated File No. E13288.

Fig. 1

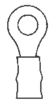


Fig. 2

Fig. 3

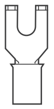


Fig. 4

Fig. 5

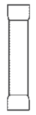


Fig. 6

Fig. 7

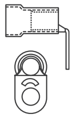


Fig. 8

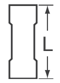


Fig. 9

Ring Tongue Terminals

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AMP Part No.
22-16 AWG Red														
1	2	.218 x .684	.140	A0954-ND	.21	.18	34140	—	—	—	—	—	—	—
	4	.218 x .684	.125	A27302-ND	.21	.18	32944	—	—	—	—	—	—	—
	4	.218 x .684	.140	A0955-ND	.21	.18	34141	A0955CT-ND	—	154.93	A0955TR-ND	5,000	123.94/M	2-34141-1
	4	.281 x .809	.140	A28199-ND	.27	.24	34143	—	—	—	—	—	—	—
	6	.218 x .684	.125	A27303-ND	.21	.18	32945	A27303CT-ND	—	161.15	A27303TR-ND	5,000	128.92/M	2-32945-1
	6	.218 x .684	.140	A09016-ND[1]	.21	.18	34142	—	—	—	—	—	—	—
	6	.281 x .809	.125	A27304-ND	.21	.18	32947	A27304CT-ND	—	154.93	A27304TR-ND	5,000	123.94/M	2-32947-1
	6	.281 x .809	.140	A0956-ND[2]	.21	.18	34144	A0956CT-ND	—	101.23	A0956TR-ND	5,000	80.98/M	2-34144-1
	6	.312 x .856	.125	A27305-ND	.21	.18	32950	A27305CT-ND	—	161.15	A27305TR-ND	5,000	128.92/M	2-32950-1
	6	.312 x .856	.140	A27306-ND	.21	.18	34147	A27306CT-ND	—	154.93	A27306TR-ND	5,000	123.94/M	2-34147-1
	8	.281 x .809	.125	A27308-ND	.21	.18	32948	A27308CT-ND	—	294.70	A27308TR-ND	5,000	235.76/M	2-32948-1
	8	.281 x .809	.140	A09017-ND[1]	.12	.06	34145	A09017CT-ND	—	154.93	A09017TR-ND	5,000	123.94/M	2-34145-1
	8	.312 x .856	.125	A27307-ND	.21	.18	32951	A27307CT-ND	—	161.15	A27307TR-ND	5,000	128.92/M	2-32951-1
	8	.312 x .856	.140	A0957-ND[2]	.12	.06	34148	A0957CT-ND	—	154.93	A0957TR-ND	5,000	123.94/M	2-34148-1
	10	.281 x .809	.125	A28192-ND	.21	.18	32949	A28192CT-ND	—	276.20	A28192TR-ND	5,000	220.96/M	2-32949-1
	10	.281 x .809	.140	A09018-ND[1]	.21	.18	34146	—	—	—	—	—	—	—
	10	.312 x .856	.125	A09019-ND	.21	.18	32952	A09019CT-ND	—	154.93	A09019TR-ND	5,000	123.94/M	2-32952-1
	10	.312 x .856	.140	A0958-ND[2]	.20	.18	34149	A0958CT-ND	—	101.23	A0958TR-ND	5,000	80.98/M	2-34149-1
	1/4	.469 x 1.090	.125	A27309-ND	.27	.24	32953	A27309CT-ND	—	370.78	A27309TR-ND	5,000	296.62/M	2-32953-1
	1/4	.469 x 1.090	.140	A0959-ND	.24	.21	34150	A0959CT-ND	—	178.28	A0959TR-ND	5,000	142.62/M	2-34150-1
	5/16	.469 x 1.090	.140	A0960-ND	.24	.21	34151	A0960CT-ND	—	178.28	A0960TR-ND	5,000	142.62/M	2-34151-1
	3/8	.531 x 1.230	.140	A0961-ND	.25	.22	34152	—	—	—	—	—	—	—
16-14 AWG Blue														
1	4	.250 x .715	.170	A0962-ND	.27	.24	34157	—	—	—	—	—	—	—
	6	.250 x .715	.170	A09020-ND[1]	.21	.18	34158	—	—	—	—	—	—	—
	6	.343 x .871	.170	A0963-ND[2]	.21	.18	34159	A0963CT-ND	—	161.15	A0963TR-ND	5,000	128.92/M	2-34159-1
	8	.312 x .825	.170	A27311-ND	.21	.18	328527	—	—	—	—	—	—	—
	8	.343 x .871	.145	A27310-ND	.21	.18	32959	A27310CT-ND	—	316.68	A27310TR-ND	5,000	253.34/M	2-32959-1
	8	.343 x .871	.170	A0964-ND	.12	.06	34160	A0964CT-ND	—	154.93	A0964TR-ND	5,000	123.94/M	2-34160-1
	10	.343 x .871	.145	A09021-ND	.21	.18	32960	A09021CT-ND	—	154.93	A09021TR-ND	5,000	123.94/M	2-32960-1
	10	.343 x .871	.170	A0965-ND	.20	.18	34161	A0965CT-ND	—	101.23	A0965TR-ND	5,000	80.98/M	2-34161-1
	1/4	.469 x 1.090	.145	A27312-ND	.36	.31	32961	—	—	—	—	—	—	—
	1/4	.469 x 1.090	.170	A0966-ND	.13	.07	34162	—	—	—	—	—	—	—
	5/16	.469 x 1.090	.170	A0967-ND	.24	.21	34163	—	—	—	—	—	—	—
	3/8	.531 x 1.248	.170	A0968-ND	.27	.24	34164	—	—	—	—	—	—	—
16-14HD AWG Yellow/Black														
1	10	.343 x 1.046	.250	A28193-ND	.38	.34	321518	A28193CT-ND	155.79	283.25	A28193TR-ND	2,500	226.60/M	2-321518-1
	1/4	.531 x 1.296	.200	A27555-ND	.40	.35	34824	—	—	—	—	—	—	—
12-10 AWG Yellow														
1	6	.281 x .953	.250	A27313-ND	.27	.24	34852	—	—	—	—	—	—	—
	6	.375 x 1.098	.230	A28194-ND	.27	.24	34168	A28194CT-ND	116.52	211.85	A28194TR-ND	2,500	169.48/M	2-34168-1
	8	.375 x 1.098	.230	A27314-ND	.19	.17	34169	A27314CT-ND	112.05	203.73	A27314TR-ND	2,500	162.98/M	2-34169-1
	8	.375 x 1.098	.250	A0969-ND	.27	.24	34853	A0969CT-ND	116.52	211.85	A0969TR-ND	2,500	169.48/M	2-34853-1
	10	.375 x 1.098	.230	A09022-ND	.27	.24	34170	A09022CT-ND	64.58	117.43	A09022TR-ND	2,500	93.94/M	2-34170-1
	10	.375 x 1.098	.250	A0970-ND[2]	.26	.23	34854	A0970CT-ND	64.58	117.43	A0970TR-ND	2,500	93.94/M	2-34854-1
	1/4	.400 x 1.373	.300	A28195-ND	.30	.27	55678-1	A28195CT-ND	204.67	372.13	A28195TR-ND	1,500	297.70/M	55678-2
	1/4	.531 x 1.327	.230	A27315-ND	.32	.28	34171	A27315CT-ND	127.15	231.18	A27315TR-ND	2,500	184.94/M	2-34171-1
	1/4	.531 x 1.327	.250	A0971-ND	.31	.28	34855	A0971CT-ND	127.15	231.18	A0971TR-ND	2,500	184.94/M	2-34855-1
	5/16	.531 x 1.327	.230	A27316-ND	1.01	.89	34172	A27316CT-ND	264.44	480.80	A27316TR-ND	2,500	384.64/M	2-34172-1
	5/16	.531 x 1.327	.250	A0972-ND	.21	.19	34856	—	—	—	—	—	—	—
	3/8	.593 x 1.421	.230	A0973-ND	.31	.28	34173	—	—	—	—	—	—	—
	2	.750 x 1.594	.250	A09023-ND[1]	.55	.48	34837	—	—	—	—	—	—	—
8 AWG Red														
1	8	.478 x 1.586	.360	A27530-ND	.84	.74	52041	—	—	—	—	—	—	—
	10	.431 x 1.556	.360	A27318-ND	.55	.49	52263	—	—	—	A27318TR-ND	500	168.21	52263-2
	10	.431 x 1.576	.330	A27317-ND	.55	.49	52263-1	—	—	—	—	—	—	—
	1/4	.431 x 1.561	.360	A28196-ND	1.33	1.17	55621-1	—	—	—	—	—	—	—
	1/4	.478 x 1.586	.360	A27320-ND	.84	.74	52041-1	—	—	—	A27320TR-ND	500	469.50	52041-7
	1/4	.478 x 1.600	.330	A27319-ND	.83	.73	52041-3	—	—	—	A27319TR-ND	500	461.85	52041-9
	5/16	.587 x 1.696	.360	A27321-ND	.90	.79	52291	—	—	—	—	—	—	—
	3/8	.587 x 1.696	.360	A27531-ND	.86	.76	52291-1	—	—	—	—	—	—	—
	1/2	.875 x 1.860	.330	A27532-ND	1.48	1.30	52262-1	—	—	—	—	—	—	—
6 AWG Blue														
1	8	.500 x 1.869	.360	A27322-ND	1.67	1.47	52042-2	—	—	—	—	—	—	—
	10	.468 x 1.719	.436	A27323-ND	.88	.77	52265	—	—	—	—	—	—	—
	10	.500 x 1.844	.436	A27533-ND	1.67	1.47	52042-4	—	—	—	—	—	—	—
	1/4	.398 x 1.846	.450	A28197-ND	1.06	.93	55679-1	—	—	—	—	—	—	—
	1/4	.500 x 1.844	.436	A27325-ND	.94	.83	52042-1	—	—	—	—	—	—	—
	1/4	.500 x 1.869	.360	A27324-ND	.98	.86	52042-3	—	—	—	A27324TR-ND	500	499.77	52042-9
	5/16	.625 x 1.906	.450	A27326-ND	1.04	.91	52264	—	—	—	—	—	—	—
	3/8	.625 x 1.906	.450	A27534-ND	1.81	1.60	52264-1	—	—	—	—	—	—	—
	1/2	.815 x 1.851	.436	A27535-ND	2.26	1.99	52350	—	—	—	—	—	—	—
4 AWG Yellow														
1	10	.546 x 1.948	.450	A27327-ND	1.23	1.08	52043-2	—	—	—	—	—	—	—
	1/4	.546 x 1.948	.450	A27328-ND	1.94	1.71	52043-3	—	—	—	—	—	—	—
	1/4	.546 x 1.948	.515	A27329-ND	1.11	.98	52043-1	—	—	—	—	—	—	—
	5/16	.679 x 2.014	.450	A27330-ND	2.62	2.31	52266-3	—	—	—	—	—	—	—
	5/16	.679 x 2.014	.515	A27331-ND	1.96	1.72	52266	—	—	—	—	—	—	—
	3/8	.679 x 2.014	.450	A27536-ND	1.93	1.70	52266-4	—	—	—	—	—	—	—
2 AWG Red														
1	1/4	.675 x 2.071	.560	A27332-ND	2.55	2.25	52267-1	—	—	—	—	—	—	—
	5/16	.711 x 2.089	.560	A27537-ND	2.53	2.23	52044-4	—	—	—	—	—	—	—
	5/16	.711 x 2.089	.632	A27538-ND	1.68	1.48	52044-1	—	—	—	—	—	—	—
	3/8	.711 x 2.089	.632	A27539-ND	2.56	2.25	52044-2	—	—	—	—	—	—	—
1/0 AWG Blue														
1	5/16	.807 x 2.447	.684	A27333-ND	2.12	1.86	52045-1	—	—	—	—	—	—	—
	3/8	.807 x 2.447	.665	A27540-ND	2.12	1.86	52045-5	—	—	—	—	—	—	—

[1] Short; [2] Long

(Continued)

Spade Tongue Terminals

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AMP Part No.
22-16 AWG Red														
2	6	.250 x .858	.140	A27425-ND	.21	.18	327043	A27425CT-ND	—	161.15	A27425TR-ND	5,000	128.92/M	2-327043-1
	6	.297 x .765	.125	A27572-ND	.26	.23	327735	A27572CT-ND	—	149.95	A27572TR-ND	5,000	119.96/M	2-327735-1
	6	.297 x .765	.140	A0974-ND	.21	.18	320665	—	—	—	—	—	—	—
	8	.375 x .920	.125	A27573-ND	.28	.25	32981	A27573CT-ND	—	322.25	A27573TR-ND	5,000	193.35/M	2-32981-1
	8	.375 x .920	.140	A0975-ND	.21	.18	34155	—	—	—	—	—	—	—
	10	.375 x .920	.140	A0976-ND	.21	.18	34156	—	—	—	—	—	—	—
16-14 AWG Blue														
2	6	.297 x .765	.145	A0977-ND	.21	.18	322994	—	—	—	—	—	—	—
	8	.385 x .920	.170	A0978-ND	.21	.18	34166	—	—	—	—	—	—	—
	10	.385 x .920	.170	A0979-ND	.21	.18	34167	—	—	—	—	—	—	—
12-10 AWG Yellow														
2	8	.406 x 1.095	.250	A0980-ND	.58	.51	35152	—	—	—	—	—	—	—
	10	.406 x 1.095	.230	A0981-ND	.27	.24	34176	A0981CT-ND	233.04	423.70	A0981TR-ND	2,500	338.96/M	2-34176-1

Flanged Spade

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AMP Part No.
22-16 AWG Red														
3	6	.328 x .749	.140	A28249-ND	.45	.39	324560	A28249CT-ND	—	463.25	A28249TR-ND	5,000	370.60/M	2-324560-1
	6	.296 x .749		A0982-ND	.23	.20	322249	A0982CT-ND	—	168.75	A0982TR-ND	5,000	135.00/M	1-322249-1
	8	.416 x .842		A0983-ND	.77	.68	324169	—	—	—	—	—	—	—
	8	.296 x .749		A27433-ND	.30	.26	1-322249-0	A27433CT-ND	—	405.08	A27433TR-ND	5,000	324.06/M	1-322249-9
	10	.296 x .749		A0984-ND	.45	.39	328516	—	—	—	—	—	—	—
16-14 AWG Blue														
3	6	.294 x .749	.170	A0985-ND	.23	.20	324165	A0985CT-ND	—	168.75	A0985TR-ND	5,000	135.00/M	2-324165-1
	8	.294 x .749		A09024-ND	.33	.29	53874-1	A09024CT-ND	—	254.83	A09024TR-ND	5,000	203.86/M	53874-2
12-10 AWG Yellow														
3	6	.296 x 1.017	.230	A0986-ND	.50	.44	324581	A0986CT-ND	283.75	515.90	A0986TR-ND	2,500	412.72/M	1-324581-1
	8	.416 x 1.017	.230	A0987-ND	.60	.53	324172	—	—	—	—	—	—	—
	10	.416 x 1.017	.250	A09025-ND	.30	.27	52856	—	—	—	—	—	—	—

Spring Spade Tongue

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AMP Part No.
Short														
22-16 AWG Red														
4	4	.203 x .811	.140	A0988-ND	.24	.21	52947	A0988CT-ND	—	375.85	A0988TR-ND	5,000	300.68/M	52947-1
	6	.234 x .811		A27440-ND	.24	.21	53240-1	A27440CT-ND	—	187.93	A27440TR-ND	5,000	112.76/M	53240-2
	6	.250 x .811		A0989-ND	.23	.21	52949	A0989CT-ND	—	118.08	A0989TR-ND	5,000	94.46/M	52949-1
	8	.244 x .872		A27441-ND	.32	.28	53241-1	A27441CT-ND	—	180.70	A27441TR-ND	5,000	144.56/M	53241-2
	8	.375 x .872		A0990-ND	.29	.26	52950	A0990CT-ND	—	375.85	A0990TR-ND	5,000	225.51/M	52950-1
	10	.294 x .920		A27442-ND	.19	.16	53242-1	—	—	—	—	—	—	—
	10	.406 x .920		A0991-ND	.35	.31	52951	A0991CT-ND	—	361.40	A0991TR-ND	5,000	216.84/M	52951-1
16-14 AWG Blue														
4	6	.250 x .811	.170	A0992-ND	.23	.21	52955	A0992CT-ND	—	180.70	A0992TR-ND	5,000	144.56/M	52955-1
	6	.250 x .860	.250	A27575-ND	.32	.28	52955-2	—	—	—	—	—	—	—
	8	.244 x .872	.170	A27443-ND	.27	.24	53244-1	—	—	—	—	—	—	—
	8	.375 x .872	.170	A0993-ND	.28	.25	52956	A0993CT-ND	—	187.93	A0993TR-ND	5,000	150.34/M	52956-1
	10	.294 x .920	.170	A27576-ND	.32	.28	53245-1	—	—	—	—	—	—	—
	10	.406 x .920	.170	A0994-ND	.24	.21	52957	A0994CT-ND	—	180.70	A0994TR-ND	5,000	108.42/M	52957-1
12-10 AWG Yellow														
4	6	.250 x .959	.200	A27577-ND	.42	.37	52961	A27577CT-ND	269.21	489.48	A27577TR-ND	2,500	293.69/M	52961-1
	6	.250 x .959	.250	A27444-ND	.42	.37	53246-1	—	—	—	—	—	—	—
	8	.312 x 1.052	.250	A27541-ND	.44	.39	53247-1	—	—	—	—	—	—	—
	8	.375 x 1.052	.200	A27578-ND	.45	.39	52962	—	—	—	—	—	—	—
	10	.406 x 1.100	.200	A27445-ND	.46	.40	52963	—	—	—	—	—	—	—
Long														
22-16 AWG Red														
4	6	.250 x .945	.140	A09027-ND	.41	.36	52453	—	—	—	—	—	—	—
	8	.281 x .991		A09028-ND	.40	.36	52454	—	—	—	—	—	—	—
	10	.343 x 1.017		A09029-ND	.34	.30	52455	—	—	—	—	—	—	—
16-14 AWG Blue														
4	6	.250 x .945	.170	A09030-ND	.39	.34	52463	—	—	—	—	—	—	—
	8	.281 x .991		A09031-ND	.41	.36	52464	A09031CT-ND	—	375.85	A09031TR-ND	5,000	225.51/M	52464-1
	10	.343 x 1.017		A09032-ND	.49	.43	52465	—	—	—	—	—	—	—

Butt Splices

Fig.	Dim. L Max. Inch	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Tape & Reel† Size	Tape & Reel† Pricing
26-22 AWG Yellow (26-24 per MIL-T-7928)										
5	.620	.080	A27461-ND	.22	.20	—	—	—	—	—
22-16 AWG Red (22-18 per MIL-T-7928)										
5	1.065	.120	A09033-ND	.24	.21	—	—	—	—	—
	1.065	.170	A27462-ND	.25	.22	—	—	—	—	—
	1.076	.140	A0997-ND	.14	.07	A0997CT-ND	100.40	182.55	2,500	146.04/M
	1.065	.083 x .171	A27463-ND	.25	.22	—	—	—	—	—
16-14 AWG Blue										
5	1.065	.140	A27464-ND	.36	.31	—	—	—	—	—
	1.065	.170	A0998-ND	.14	.07	A0998CT-ND	57.86	105.20	2,500	84.16/M
	1.065	.215	A27465-ND	.25	.22	—	—	—	—	—
	1.105	.170	A28185-ND	.73	.65	—	—	—	—	—
	1.065	.135 x .245	A09034-ND	.84	.74	—	—	—	—	—
16-14 AWG Natural w/Blue Stripes										
5	1.065	.170	A27542-ND	.25	.22	—	—	—	—	—
12-10 AWG Yellow										
5	1.160	.200	A27466-ND	.41	.36	—	—	—	—	—
		.230	A0999-ND	.23	.11	—	—	—	—	—
		.250	A27467-ND	.53	.47	—	—	—	—	—

† For Tape and Reel Part Number change CT-ND to TR-ND

Multiple Stud Terminals

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel 5,000	AMP Part No.
6	22-16 Red	6-8-10	.125	A27556CT-ND	3.35	29.49	A27556TR-ND	191.52/M	54774-2

Ring Tongue 90° Bend Terminal

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
7	8 Red	10	.360	A27563-ND	1.71	1.50	55654-1
	6 Blue	1/4	.436	A27564-ND	2.53	2.23	54754-1
	4 Yellow	1/4	.515	A27565-ND	2.95	2.60	322894

Parallel Splices

Fig.	AWG Color	Dim. L Max. Inch	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
8	22-16 Red	.760	.120	A27468-ND	.27	.24	34131
	22-16 Red	.760	.140	A27574-ND	.21	.19	34132
	16-14 Blue	.760	.140	A27469-ND	.15	.14	34133
	16-14 Blue	.760	.170	A27470-ND	.73	.64	34134
	12-10 Yellow	.843	.200	A27471-ND	.42	.37	34135
	12-10 Yellow	.870	.230	A27472-ND	.23	.20	34136

Ring Flag Tongue

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
9	16-14 Blue	14	.170	A27557-ND	1.20	1.06	322310
	16-14HD Black		.230	A27558-ND	1.42	1.25	322313
	12-10 Yellow		.230	A27559-ND	1.93	1.70	322316

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
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FASTONS

Fig. 1

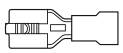


Fig. 2

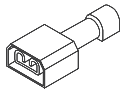
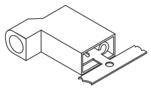


Fig. 3



PIDG FASTON: Receptacle material is brass unless otherwise noted. **Ultra-Fast FASTON Receptacles:** Fully Insulated FASTON Receptacles offer all the advantages of the standard Ultra-Fast product plus an insulation crimp. Ultra-Fast Plus Receptacles are preinsulated assemblies featuring a co-molded housing produced from two different nylon materials. The receptacle and wire barrel portions of the housing are molded from type 6/6 nylon material with a +125°C UL temperature rating. The insulation barrel is molded from a premium grade nylon. Material: • Housing: Nylon Type 6/6 • Terminal: Tin-Plated, Copper alloy • Base : Brass

PIDG FASTONS

Fig.	AWG	Insulation Color	Fits Tab Size (Inch)	Insul. Dia. Inch	Digi-Key Part No.	Price Each		Digi-Key Part No.	Cut Tape Pricing		Tape & Reel†		Digi-Key Part No.	Cut Strip Pricing		Strip & Reel‡	
						10	100		500	1,000	Size	Pricing		500	1,000	Size	Pricing
.110” Low Insertion																	
1	22-18	Red	.110 x .012	.140	—	—	—	—	—	—	—	—	A27941TR-ND	—	—	5,000	164.92/M
	22-18	Red	.110 x .016	.140	A27944-ND	.23	.21	A27944CT-ND	—	236.95	5,000	189.56/M	—	—	—	—	—
	22-18	Red	.110 x .020	.140	A09050-ND	.23	.11	A09050CT-ND	—	179.53	5,000	143.62/M	—	—	—	—	—
	22-18	Red	.110 x .032	.140	A09051-ND	.23	.11	A09051CT-ND	—	179.53	5,000	143.62/M	A27952CT-ND	—	165.15	5,000	132.12/M
	16-14	Blue	.110 x .020	.170	A0912-ND	.23	.11	A0912CT-ND	—	179.53	4,000	143.62/M	—	—	—	—	—
	16-14	Blue	.110 x .032	.170	A27967-ND	.23	.21	A27967CT-ND	—	179.53	4,000	143.62/M	—	—	—	—	—
	16-14	Blue	.110 x .016	.170	A27964-ND	.23	.21	A27964CT-ND	—	179.53	4,000	143.62/M	—	—	—	—	—
.110” Standard																	
1	22	Red/Green	.110 x .016	.040 - 0.80	A28002-ND#	.62	.55	—	—	—	—	—	—	—	—	—	—
	22-18	Trans.	.110 x .016	.110	A27942-ND§	.25	.22	A27942CT-ND§	—	279.15	5,000	223.32/M	—	—	—	—	—
	22-18	Trans.	.110 x .020	.100	A09049-ND§	.25	.12	A09049CT-ND§	—	192.75	5,000	154.20/M	A27947CT-ND§	—	142.62	5,000	142.62/M
	22-18	Trans.	.110 x .032	.100	A0911-ND§	.25	.12	A0911CT-ND§	—	192.75	5,000	154.20/M	A28001TR-ND§	—	—	5,000	295.72/M
.187” Series																	
1	26-24	Yellow	.187 x .020	.082	A27940-ND§	.18	.09	A27940CT-ND§	—	236.95	5,000	142.17/M	A28000TR-ND§	—	—	4,000	256.70/M
	22-18	Red		.135	A0909-ND	.18	.09	A0909CT-ND	—	146.23	4,000	116.98/M	A27954CT-ND	90.83	165.15	3,500	132.12/M
	16-14	Blue		.170	A0910-ND	.23	.11	A0910CT-ND	—	179.53	4,000	143.62/M	—	—	—	—	—
.205” Series																	
1	22-18	Red	.205 x .020	.135	A09047-ND	.23	.11	A09047CT-ND	—	179.53	4,000	143.62/M	—	—	—	—	—
	22-18	Red/Black	.205 x .020	.140	A27955-ND	.49	.43	—	—	—	—	—	—	—	—	—	—
	22-18	Red	.205 x .032	.135	A0907-ND	.23	.11	A0907CT-ND	—	179.53	4,000	143.62/M	—	—	—	—	—
	16-14	Blue	.205 x .020	.170	A09048-ND	.23	.11	A09048CT-ND	—	236.95	4,000	189.56/M	—	—	—	—	—
	16-14	Blue	.205 x .032	.170	A0908-ND	.23	.11	A0908CT-ND	—	236.95	4,000	189.56/M	—	—	—	—	—
.250” Series																	
1	22-18	Red	.250 x .032	.140	A0903-ND	.18	.09	A0903CT-ND	—	146.23	4,000	116.98/M	—	—	—	—	—
	22-18	Red		.140	A27957-ND*	.28	.25	A27957CT-ND*	—	240.55	4,000	192.44/M	—	—	—	—	—
	16-14	Blue		.170	A0904-ND	.18	.09	A0904CT-ND	80.42	146.23	3,500	116.98/M	A27974CT-ND	90.83	165.15	3,500	132.12/M
	14-12	Green		.250	A0905-ND§	.33	.16	A0905CT-ND§	139.73	254.05	2,500	203.24/M	A27976TR-ND§	—	—	2,000	253.40/M
	14-12	Green		.250	A27977-ND§◊	.36	.32	—	—	—	—	—	—	—	—	—	—
	12-10	Yellow		.250	A0906-ND	.26	.12	A0906CT-ND	112.50	204.55	2,500	163.64/M	A27963CT-ND	—	236.00	2,000	188.80/M
	12-10	Yellow		250	A27978-ND	.67	.59	—	—	—	—	—	—	—	—	—	—

† For Tape and Reel Part No. change CT-ND to TR-ND ‡ For Strip and Reel Part No. change CT-ND to TR-ND § Not UL or CSA approved or listed # Insulation restricted *Unplated receptacle body ◊ Receptable material is phosphor bronze

Ultra-Fast FASTON Receptacles

Fig.	AWG Color	Insulation Diameter	Mating Tab	Digi-Key Part No.	Price Each		Amp Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip & Reel		Amp Part No.
					10	100			500	1,000		Size	Pricing	
Ultra-Fast Plus Fully Insulated														
.110” Series														
2	22-18 Red	.060-.120	.020	—	—	—	—	A27844CT-ND	59.04	101.41	A27844TR-ND	3,000	90.14/M	2-520932-2
.187” Series														
2	22-18 Red	.060-.135	.020	A27846-ND	.23	.20	2-520409-2	A27846CT-ND	63.14	114.80	A27846TR-ND	2,500	91.84/M	2-520401-2
	22-18 Red	.060-.135	.032	A27848-ND	.23	.20	2-520411-2	A27848CT-ND	63.14	114.80	A27848TR-ND	2,700	91.85/M	2-520403-2
	16-14 Blue	.090-.160	.020	A27850-ND	.23	.20	3-520410-2	A27850CT-ND	—	114.80	A27850TR-ND	2,200	91.85/M	3-520402-2
	16-14 Blue	.090-.160	.032	A27852-ND	.23	.20	3-520412-2	A27852CT-ND	—	114.80	A27852TR-ND	2,000	91.84/M	3-520404-2
.250” Series														
2	22-18 Red	.060-.135	.032	A27854-ND	.25	.22	2-520407-2	A27854CT-ND	69.33	126.05	A27854TR-ND	2,200	100.85/M	2-520405-2
	16-14 Blue	.090-.160		A27856-ND	.25	.22	3-520408-2	A27856CT-ND	69.33	126.05	A27856TR-ND	2,200	100.85/M	3-520406-2
Ultra-Fast Fully Insulated														
.110” Series														
2	26-22 Violet	.100	.020	A27793-ND	.19	.17	7-520366-2	A27793CT-ND	—	107.35	A27793TR-ND	3,000	85.88/M	7-520365-2
	22-18 Red	.120	.016	A27795-ND	.19	.17	2-520081-2	A27795CT-ND	—	107.35	A27795TR-ND	3,000	85.88/M	2-520080-2
	22-18 Red	.120	.020	A27797-ND	.17	.15	2-520084-2	A27797CT-ND	—	107.35	A27797TR-ND	3,000	85.88/M	2-520083-2
	22-18 Red	.120	.032	A27799-ND	.19	.17	2-520273-2	A27799CT-ND	—	107.35	A27799TR-ND	3,000	85.88/M	2-520272-2
	22-18 Red	.230	.020	—	—	—	—	A27800CT-ND	63.05	108.29	A27800TR-ND	2,000	96.26/M	2-520306-2
	22-18 Red	.230	.032	—	—	—	—	A27801CT-ND	63.05	108.29	A27801TR-ND	2,000	96.26/M	2-520310-2
	16-14 Blue	.260	.020	—	—	—	—	A27802CT-ND	63.05	108.29	A27802TR-ND	2,000	96.26/M	3-520370-2
.187” Series														
2	22-18 Red	.135	.020	A27804-ND	.16	.14	2-520182-2	A27804CT-ND	54.60	99.28	A27804TR-ND	2,700	79.42/M	2-520181-2
	22-18 Red	.135	.032	A27806-ND	.18	.16	2-520194-2	A27806CT-ND	54.60	99.28	A27806TR-ND	2,700	79.42/M	2-520193-2
	22-18 Red	.230	.020	—	—	—	—	A27807CT-ND	58.30	100.13	A27807TR-ND	2,000	89.00/M	2-520261-2
	22-18 Red	.230	.032	A27809-ND	.20	.18	2-520275-2	A27809CT-ND	—	123.03	A27809TR-ND	2,000	98.42/M	2-520274-2
	16-14 Blue	.160	.020	A27811-ND	.18	.16	3-350816-2	A27811CT-ND	54.60	99.28	A27811TR-ND	2,200	79.42/M	3-350815-2
	16-14 Blue	.160	.032	A27813-ND	.18	.16	3-520125-2	A27813CT-ND	54.60	99.28	A27813TR-ND	2,200	79.42/M	3-520124-2
	16-14 Blue	.260	.020	A27815-ND	.20	.18	3-520151-2	A27815CT-ND	—	111.25	A27815TR-ND	2,000	89.00/M	3-520150-2
.250” Series														
2	22-18 Red	.135	.032	A27817-ND	.17	.15	2-520184-2	A27817CT-ND	59.95	109.00	A27817TR-ND	2,200	87.20/M	2-520183-2
	22-18 Red	.135		A27819-ND†	.27	.24	2-520184-4	A27819CT-ND†	—	143.35	A27819TR-ND†	2,000	114.68/M	2-520183-4
	22-18 Red	.230		A27821-ND	.22	.19	2-520264-2	A27821CT-ND	—	122.13	A27821TR-ND	2,000	97.70/M	2-520263-2
	22-18 Red	.230		—	—	—	—	A27822CT-ND†	84.14	144.52	A27822TR-ND†	2,000	128.46/M	2-520263-4
	16-14 Blue	.160		A27824-ND	.17	.15	3-350820-2	A27824CT-ND	59.95	109.00	A27824TR-ND	2,200	87.20/M	3-350819-2
	16-14 Blue	.160		A27826-ND†	.27	.24	3-520117-2	A27826CT-ND†	—	143.35	A27826TR-ND†	2,200	114.69/M	3-520116-2
	16-14 Blue	.260		A27828-ND	.19	.17	3-520141-2	A27828CT-ND	—	122.13	A27828TR-ND	2,000	97.70/M	3-520140-2
	16-14 Blue	.260		—	—	—	—	A27829CT-ND†	84.14	144.52	A27829TR-ND†	2,000	128.46/M	3-520140-4
	12-10 Yellow	.320		A27831-ND	.24	.22	4-520448-2	A27831CT-ND	77.33	140.60	A27831TR-ND	1,500	112.48/M	4-520447-2
Ultra-Fast Fully Insulated Faston Receptacles														
.250” Series														
2	22-18 Red	.135	.032	A27906-ND	.29	.26	2-520103-2	—	—	—	A27906TR-ND	1,400	164.05/M	2-520102-2
	16-14 Blue	.160		A27907-ND	.29	.26	3-520107-2	—	—	—	A27907TR-ND	1,400	164.05/M	3-520106-2
Ultra-Fast Fully Insulated Faston Flag Receptacles														
.187” Series														
3	22-18 Red	.165	.020	A27833-ND	.30	.27	2-520335-2	A27833CT-ND	—	183.93	A27833TR-ND	2,200	147.15/M	2-520334-2
	22-18 Red	.165	.032	A27835-ND	.30	.27	2-520337-2	A27835CT-ND	—	183.93	A27835TR-ND	2,200	147.15/M	2-520336-2
	16-14 Blue	.185	.020	A27837-ND	.30	.27	3-520339-2	A27837CT-ND	—	183.93	A27837TR-ND	2,000	147.14/M	3-520338-2
	16-14 Blue	.185	.032	—	—	—	—	A27838CT-ND	96.38	165.53	A27838TR-ND	2,200	147.15/M	3-520340-2
.250” Series														
3	22-18 Red	.165	.032	A27840-ND	.29	.25	2-520129-2	A27840CT-ND	—	197.93	A27840TR-ND	2,200	158.35/M	2-520128-2
	22-18 Red	.230		—	—	—	—	A27841CT-ND *NEW!*	105.23	168.36	A27841TR-ND	1,700	147.32/M	2-520856-2
	16-14 Blue	.185		A27843-ND	.29	.25	3-520133-2	A27843CT-ND	108.86	—	A27843TR-ND	2,100	158.34/M	3-520132-2

† Terminal base material is phosphur bronze

A28005-ND	Hand Tool for Fastons (without dies)	**$238.50**
A27992-ND	TETRA-CRIMP Hand Tool for PIDG Faston Receptacles	**$358.50**
A28009-ND	Ultra-Fast Die Set for .187 and .250 Series (22-18 AWG), use with A28005-ND	**$403.50**
A28010-ND	Ultra-Fast Die Set for .187 and .250 Series (16-14 AWG), use with A28005-ND	**$403.50**

Budget and Economy Fastons

Budget Line

Fig.	AWG	Stock Thick-ness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing				Digi-Key Part No.	Tape & Reel		Amp Part No.
							10	100	500	1,000		Size	Pricing	
.250" Series - Insulation Support														
1	18-22	.016	Brass	.250 x .032	.090-.130	A27608CT-ND	.61	5.20	21.65	34.64	A27608TR-ND	10,000	23.39/M	42510-1
	18-22		Tin Plated Brass		.090-.130	A27609CT-ND	.66	5.63	23.44	37.50	A27609TR-ND	10,000	25.32/M	42510-2
	14-18		Brass		.120-.170	A27610CT-ND	.43	3.69	15.39	24.62	A27610TR-ND	10,000	16.62/M	42400-1
	14-18		Tin Plated Brass		.120-.170	A27611CT-ND	.48	4.12	17.18	27.48	A27611TR-ND	10,000	18.55/M	42400-2
Flag														
2	12-18	.016	Brass	.250 x .032	.110-.210	A27612CT-ND	.69	5.93	24.71	39.54	A27612TR-ND	4,000	29.66/M	42511-1
			Tin Plated Brass			A27613CT-ND	.56	4.81	20.04	32.06	A27613TR-ND	4,000	24.05/M	42511-2
3	18-22	.016	Brass	.250 x .032	.060-1.00	A27618CT-ND†	.77	6.64	27.65	44.24	A27618TR-ND†	9,000	33.18/M	62718-1
	18-22		Tin Plated Brass		.060-1.00	A27619CT-ND†	1.43	12.23	50.98	81.56	A27619TR-ND†	9,000	61.17/M	62718-2
	14-18		Brass		.110-.160	A27614CT-ND*	1.14	9.78	40.75	65.20	A27614TR-ND*	9,000	48.90/M	63009-1
	14-18		Tin Plated Brass		.110-.160	A27615CT-ND*	.57	4.92	20.49	32.78	A27615TR-ND*	9,000	24.59/M	63009-2
	14-18		Brass		.110-.160	A27616CT-ND†	.62	5.32	22.15	35.44	A27616TR-ND†	9,000	26.58/M	63010-1
	14-18		Tin Plated Brass		.110-.160	A27617CT-ND†	.70	5.99	24.98	39.96	A27617TR-ND†	9,000	29.97/M	63010-2
Low Insertion Force														
4	14-18	.016	Brass	.016	.120-.170	A27780CT-ND	.49	4.21	17.55	28.08	A27780TR-ND	10,000	18.96/M	63306-1
	14-18	.016	Tin Plated Brass	.016	.120-.170	A27781CT-ND	.55	4.70	19.58	31.32	A27781TR-ND	10,000	21.15/M	63306-2
	10-14	.018	Tin Plated Brass	.018	.150-.200	A27783CT-ND	.82	7.02	29.26	46.82	A27783TR-ND	9,000	35.12/M	63365-2
.187" Series - Insulation Support														
1	16-20	.012	Brass	.020	.090-.130	A27715CT-ND	.34	2.90	12.06	19.30	A27715TR-ND	20,000	13.03/M	42617-1
			Tin Plated Brass	.020		A27716CT-ND	.36	3.10	12.90	20.64	A27716TR-ND	20,000	13.94/M	42617-2
			Brass	.032		A27717CT-ND	.64	5.52	23.00	36.80	A27717TR-ND	20,000	24.84/M	61919-1
Flag														
2	16-20	.012	Brass	.020	.110-.170	A27718CT-ND	.51	4.37	18.19	29.10	A27718TR-ND	6,000	21.83/M	42618-1
			Tin Plated Brass			A27719CT-ND	.56	4.80	19.99	31.98	A27719TR-ND	6,000	23.99/M	42618-2
Low Insertion Force														
4	16-20	.012	Brass	.020	.090-.130	A27786CT-ND	.55	4.68	19.51	31.22	A27786TR-ND	20,000	21.08/M	63475-1
			Tin Plated Brass	.020		A27787CT-ND	.39	3.38	14.08	22.52	A27787TR-ND	20,000	15.21/M	63475-2
			Brass	.032		A27788CT-ND	.64	5.49	22.86	36.58	A27788TR-ND	20,000	24.70/M	63477-1
			Tin Plated Brass	.032		A27789CT-ND	.66	5.69	23.69	37.90	A27789TR-ND	20,000	25.59/M	63477-2

† Right handed flag * Left handed flag

Fig. 1

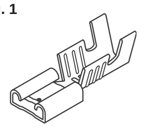


Fig. 2

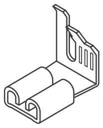
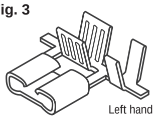
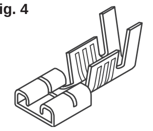


Fig. 3



Left handed flag shown

Fig. 4



Economy Line

Fig.	AWG	Stock Thick-ness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing				Digi-Key Part No.	Tape & Reel		Amp Part No.
							10	100	500	1,000		Size	Pricing	
.250" Series														
Insulation Support														
1	22-26	.016	Brass	.250 x .032	.040-.060	A27620CT-NDΔ	1.00	8.54	35.60	56.96	A27620TR-NDΔ	12,000	38.45/M	61202-1
	18-22	.016	Brass	.250 x .032	.090-.130	A27621CT-ND	.42	3.60	15.01	24.02	A27621TR-ND	12,000	16.22/M	42743-1
			Tin Plated Brass			A27622CT-ND	.47	4.05	16.86	26.98	A27622TR-ND	12,000	18.22/M	42743-2
	14-18	.016	Brass	.250 x .032	.120-.170	A27623CT-ND	.42	3.60	15.01	24.02	A27623TR-ND	12,000	16.22/M	42660-1
			Tin Plated Brass		.120-.170	A27624CT-ND	.47	4.05	16.86	26.98	A27624TR-ND	12,000	18.22/M	42660-2
			Brass		.150-.218	A27625CT-ND	.60	5.12	21.31	34.10	A27625TR-ND	10,000	23.02/M	42692-1
			Tin Plated Brass		.150-.218	A27626CT-ND	.47	4.05	16.86	26.98	A27626TR-ND	10,000	18.22/M	42692-2
2	18-22	.015	Brass	.250 x .032	.060-.100	A27627CT-ND	1.23	10.58	44.09	70.54	A27627TR-ND	2,500	70.54/M	61988-1
			Tin Plated Brass			A27628CT-ND	1.20	10.28	42.85	68.56	A27628TR-ND	2,500	68.56/M	61988-2
	14-18	.015	Brass	.250 x .032	.120-.170	A27629CT-ND	1.07	9.19	38.29	61.26	A27629TR-ND	2,000	61.26/M	61944-1
		.015	Tin Plated Brass			A27630CT-ND	1.15	9.82	40.90	65.44	A27630TR-ND	2,000	65.44/M	61944-2
		.032-.016	Brass			A27631CT-ND‡	2.00	17.10	71.26	114.02	A27631TR-ND‡	2,000	114.02/M	62109-1
		.032-.016	Tin Plated Brass			A27632CT-ND‡	1.98	16.96	70.65	113.04	A27632TR-ND‡	2,000	113.04/M	62109-2
	10-14	.015	Brass	.250 x .032	.150-.200	A27633CT-ND	1.23	10.58	44.09	70.54	A27633TR-ND	2,000	70.54/M	62253-1
			Tin Plated Brass			A27634CT-ND	1.15	9.82	40.90	65.44	A27634TR-ND	2,000	65.44/M	62253-2
Non-Insulation Support														
3	14-18	.016	Brass	.250 x .032	—	A27638CT-ND	.63	5.37	22.38	35.80	A27638TR-ND	14,000	24.17/M	42845-1
3	14-18	.016	Tin Plated Brass		—	A27639CT-ND	.65	5.55	23.11	36.98	A27639TR-ND	14,000	24.97/M	42845-2
4	14-18	.015	Pre-Tin Brass		—	A27640CT-ND	1.30	11.18	46.59	74.54	A27640TR-ND	2,500	74.54/M	62276-1
4	10-14	.015	Pre-Tin Brass		—	A27641CT-ND	2.95	25.31	105.45	168.72	A27641TR-ND	2,000	168.72/M	62068-1
Flag Insulation Support														
5	14-18	.016	Brass	.250 x .032	.110-.160	A27635CT-ND*	.48	4.15	17.28	27.64	A27635TR-ND*	7,000	20.73/M	63096-1
6	12-18		Brass		.110-.210	A27636CT-ND	.50	4.32	17.99	28.78	A27636TR-ND	4,000	21.59/M	42742-1
6	12-18		Tin Plated Brass		.110-.210	A27637CT-ND	.55	4.73	19.70	31.52	A27637TR-ND	4,000	23.64/M	42742-2
Flag Non-Insulation Support														
7	12-18	.016	Pre-Tin Brass	.250 x .032	—	A27642CT-ND†	.55	4.73	19.70	31.52	A27642TR-ND†	5,000	23.64/M	61177-2
			Pre-Tin Brass		—	A27643CT-ND§	1.03	8.84	36.84	58.94	A27643TR-ND§	4,000	44.21/M	62091-2
	10-12 or (2)14	.016	Brass	.250 x .032	—	A27644CT-ND§	.86	7.39	30.79	49.26	A27644TR-ND§	4,000	36.95/M	62011-1
			Tin Plated Brass		—	A27645CT-ND§	1.04	8.95	37.28	59.64	A27645TR-ND§	4,000	44.73/M	62011-2
.205" Series - Insulation Support														
8	18-22	.012	Brass	.020	.085-.125	A27689CT-ND	.53	4.55	18.96	30.34	A27689TR-ND	15,000	20.48/M	42710-1
	18-22		Tin Plated Brass	.020	.085-.125	A27690CT-ND	.58	4.97	20.73	33.16	A27690TR-ND	15,000	22.39/M	42710-2
	18-22		Tin Plated Brass	.032	.085-.125	A27691CT-ND	1.40	11.98	49.93	79.88	A27691TR-ND	20,000	53.92/M	60904-2
	14-18		Tin Plated Brass	.020	.130-.180	A27692CT-ND	.58	4.97	20.73	33.16	A27692TR-ND	16,000	22.39/M	42713-2
.187" Series														
Insulation Support														
1	16-20	.012	Brass	.020	.090-.130	A27720CT-ND	.33	2.80	11.66	18.66	A27720TR-ND	20,000	12.60/M	42801-1
			Tin Plated Brass	.020		A27721CT-ND	.36	3.13	13.03	20.84	A27721TR-ND	20,000	14.07/M	42801-2
			Brass	.032		A27722CT-ND	.39	3.37	14.03	22.44	A27722TR-ND	20,000	15.15/M	60196-1
			Tin Plated Brass	.032		A27723CT-ND	.42	3.62	15.06	24.10	A27723TR-ND	20,000	16.27/M	60196-2
Non-Insulation Support														
3	16-20	.012	Brass	.020	—	A27724CT-ND	.60	5.13	21.39	34.22	A27724TR-ND	25,000	21.39/M	42799-1
			Tin Plated Brass		—	A27725CT-ND	.64	5.47	22.78	36.44	A27725TR-ND	25,000	22.78/M	42799-2
Flag Insulation Support														
6	16-20	.012	Brass	.020	.110-.170	A27726CT-ND	.37	3.14	13.06	20.90	A27726TR-ND	6,000	15.68/M	42800-1
			Tin Plated Brass	.020		A27727CT-ND	.41	3.55	14.78	23.64	A27727TR-ND	6,000	17.73/M	42800-2
			Brass	.032		A27728CT-ND	.52	4.49	18.70	29.92	A27728TR-ND	6,000	22.44/M	60529-1
			Tin Plated Brass	.032		A27729CT-ND	.44	3.75	15.61	24.98	A27729TR-ND	6,000	18.74/M	60529-2

Δ UL/CSA certified for 22 AWG only † Right handed flag * Left handed flag § Right or left handed. Carrier out front for thru spacing ‡ Dual thickness

Fig. 1

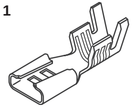


Fig. 2

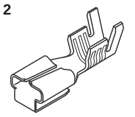


Fig. 3

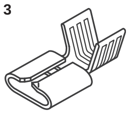


Fig. 4

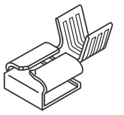


Fig. 5

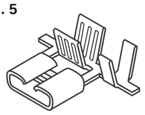


Fig. 6

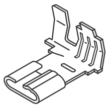


Fig. 7

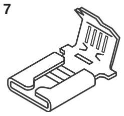
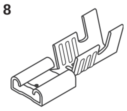


Fig. 8



Premier and Commercial Fastons

Fig. 1

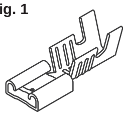


Fig. 2

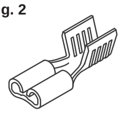


Fig. 3

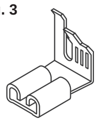


Fig. 4

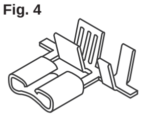


Fig. 5

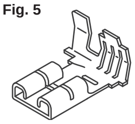


Fig. 6

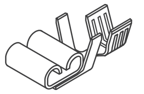


Fig. 7

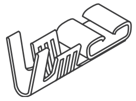
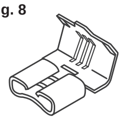


Fig. 8



Premier

Fig.	AWG	Stock Thick-ness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Amp Part No.
										10	100	500	1,000		Size	Pricing	
.312" Series - Insulation Support																	
1	14-18	.016	Brass	.312 x .032	.090-.120	—	X	X	A27979CT-ND	1.16	9.97	41.54	66.46	A27979TR-ND	8,000	49.85/M	62092-1
	12-16		Tin Plated Brass		.160 or (2) .110 Max.	X	—	X	A27580CT-ND	1.17	10.00	41.65	66.64	A27580TR-ND	6,000	49.98/M	61399-1
.250" Series																	
1	20-24	.016	Tin Plated Brass	.250 x .032	.030-.070	X‡	—	X‡	A27581CT-ND	.85	7.28	30.35	48.56	A27581TR-ND	12,000	32.78/M	61368-1
	18-22		Brass		.060-.100	X	—	X	A27582CT-ND	.85	7.28	30.35	48.56	A27582TR-ND	12,000	32.78/M	42640-1
	18-22		Tin Plated Brass		.060-.100	X	—	X	A27583CT-ND	.66	5.69	23.70	37.92	A27583TR-ND	12,000	25.60/M	42640-2
	18-22		Brass		.090-.130	X	—	X	A27584CT-ND	.85	7.28	30.35	48.56	A27584TR-ND	12,500	32.78/M	41771
	18-22		Tin Plated Brass		.090-.130	X	—	X	A24736CT-ND	—	—	26.07	47.40	A24736TR-ND	12,500	25.60/M	41772
	14-18	.018	Tin Plated Brass	.250 x .032	.060-.110	X	—	X	A24744CT-ND	—	—	—	60.70	A24744TR-ND	12,000	32.78/M	61375-1
		.016	Nickel Plated Steel		.120-.170	—	X	—	A27588CT-ND	.60	5.16	21.49	34.38	A27588TR-ND	10,000	23.21/M	42219-1
		.018	Brass		.120-.170	X	—	X	A27587CT-ND	.66	5.69	23.70	37.92	A27587TR-ND	11,000	25.60/M	41202
		.018	Tin Plated Brass		.120-.170	X	—	X	A27589CT-ND	.66	5.69	23.70	37.92	A27589TR-ND	11,000	25.60/M	41274
	12-16 or (2)18	.018	Brass	.250 x .032	.210-.265 or (2).120 Max.	X	—	X	A27590CT-ND	.97	8.29	34.55	55.28	A27590TR-ND	6,000	41.46/M	41727
		.018	Tin Plated Brass		.210-.265 or (2).120 Max.	X	—	X	A27592CT-ND	.78	6.65	27.73	44.36	A27592TR-ND	6,000	33.27/M	41728
		.016	Nickel Plated Steel		.210-.265	—	X	—	A27591CT-ND	1.05	9.04	37.68	60.28	A27591TR-ND	5,000	45.21/M	42579-1
	10-14	.018	Brass	.250 x .032	.150-.200	X	—	X	A27595CT-ND	.66	5.69	23.70	37.92	A27595TR-ND	9,000	28.44/M	41449
			Tin Plated Brass			X	—	X	A24737CT-ND	—	—	—	47.40	A24737TR-ND	9,000	28.44/M	41450
	10-14 or (2)14	.018	Tin Plated Brass	.250 x .032	.225-.275 or (2).140 Max.	X	—	X	A27594CT-ND	.78	6.65	27.73	44.36	A27594TR-ND	6,000	33.27/M	60635-1
			Brass			X	—	X	A27593CT-ND	.97	8.29	34.55	55.28	A27593TR-ND	6,000	41.46/M	60635-3
Non-Insulation Support																	
2	14-18	.018	Tin Plated Brass	.250 x .032	—	X	—	X	A24738CT-ND	.79	6.77	28.20	45.12	A24738TR-ND	12,000	30.46/M	41194
Flag Insulation Support																	
3	12-18	.018	Brass	.250 x .032	.110-.210	X	—	X	A27605CT-ND	.84	7.22	30.06	48.10	A27605TR-ND	4,000	36.08/M	41531
		.018	Nickel Plated Steel			—	X	X	A24739CT-ND	1.18	10.08	42.00	67.20	A24739TR-ND	3,500	67.20/M	41531-1
		.018	Tin Plated Brass			X	—	X	A27606CT-ND	.84	7.22	30.06	48.10	A27606TR-ND	4,000	36.08/M	41532
		.016	Nickel Plated Steel			—	—	—	A27607CT-ND	.75	6.41	26.73	42.76	A27607TR-ND	3,500	42.76/M	42404-1
4	18-22	.016	Brass	.250 x .032	.060-.100	X	—	X	A27597CT-ND*	.89	7.67	31.94	51.10	A27597TR-ND*	9,000	38.33/M	62813-1
			Tin Plated Brass			X	—	X	A27598CT-ND*	.94	8.05	33.55	53.68	A27598TR-ND*	9,000	40.26/M	62813-2
			Brass			X	—	X	A27599CT-ND†	1.14	9.79	40.80	65.28	A27599TR-ND†	9,000	48.96/M	62814-1
			Tin Plated Brass			X	—	X	A27600CT-ND†	1.43	12.26	51.06	81.70	A27600TR-ND†	9,000	61.28/M	62814-2
	14-18	.016	Brass	.250 x .032	.110-.160	X	—	X	A27601CT-ND*	.75	6.44	26.81	42.90	A27601TR-ND*	9,000	32.18/M	63011-1
			Tin Plated Brass			X	—	X	A27602CT-ND*	.58	4.94	20.59	32.94	A27602TR-ND*	9,000	24.71/M	63011-2
			Brass			X	—	X	A27603CT-ND†	.79	6.76	28.15	45.04	A27603TR-ND†	9,000	33.78/M	63012-1
			Tin Plated Brass			X	—	X	A27604CT-ND†	.55	4.74	19.76	31.62	A27604TR-ND†	9,000	23.72/M	63012-2
Low Insertion Force - Flag Insulation Support																	
5	12-18	.016	Brass	.250 x .032	.110-.210	X	—	X	A27784CT-ND	.59	5.02	20.90	33.44	A27784TR-ND	4,000	25.08/M	63445-1
			Tin Plated Brass			X	—	X	A27785CT-ND	.70	5.98	24.93	39.88	A27785TR-ND	4,000	29.91/M	63445-2
			Brass			X	—	X	A23262CT-ND	.91	7.76	32.34	51.74	A23262TR-ND	4,000	38.81/M	63445-4
Reversible Flag - Straight End Feed - Insulation Support																	
7	14-18	.016	Brass	.250 x .032	.090-.130	X	—	X	A27675CT-ND	.63	5.38	22.41	35.86	A27675TR-ND	6,500	26.90/M	62048-1
			Tin Plated Brass		.090-.130	X	—	X	A27676CT-ND	.71	6.13	25.53	40.84	A27676TR-ND	6,500	30.64/M	62048-2
			Tin Plated Brass		.170-.220	X	—	X	A27677CT-ND	1.19	10.16	42.33	67.72	A27677TR-ND	8,000	50.79/M	60764-2
.250" Series - Receptacles for Hermetic Header Tabs																	
Straight - Insulation Support																	
1	14-18	.018	Tin Plated Brass	.250 x .032	.120-.170	X	—	X	A27657CT-ND§	.91	7.77	32.36	51.78	A27657TR-ND§	11,000	34.96/M	41832
	10-14		Tin Plated Brass		.150-.200	X	—	X	A27659CT-ND§	1.14	9.80	40.81	65.30	A27659TR-ND§	8,000	48.98/M	42437-2
	10-14		Tin Plated Phos. Brz.		.150-.200	X	—	X	A27660CT-ND◊	1.11	9.48	39.49	63.18	A27660TR-ND◊	8,000	47.39/M	42437-5
Flag Insulation Support																	
3	12-18	.018	Tin Plated Phos. Brz.	.250 x .032	.110-.210	X	—	X	A27661CT-ND◊	1.17	10.01	41.73	66.76	A27661TR-ND◊	4,000	50.07/M	41800
			Brass			X	—	X	A27662CT-ND§	1.10	9.45	39.38	63.00	A27662TR-ND§	4,000	47.25/M	41801
			Tin Plated Brass			X	—	X	A27663CT-ND§	.90	7.69	32.04	51.26	A27663TR-ND§	4,000	38.45/M	41802
			Tin Phosphor Brz.			X	—	X	A27664CT-ND≠	1.73	14.81	61.70	98.72	A27664TR-ND≠	4,000	74.04/M	60274-2
	10-12	.018	Tin Plated Brass	.250 x .032	.110-.210	X	—	X	A27665CT-ND§	1.02	8.76	36.51	58.42	A27665TR-ND§	3,500	58.42/M	60851-1
			Silver Plated Brass			X	—	X	A27666CT-ND§	3.14	26.92	112.18	179.48	A27666TR-ND§	3,500	179.48/M	60851-2
			Silver Plate Phos. Brz.			X	—	X	A27667CT-ND◊	2.95	25.28	105.31	168.50	A27667TR-ND◊	3,500	168.50/M	42563-6
			Nickel Plated Steel			—	—	—	A27668CT-ND	1.70	14.54	60.60	96.96	A27668TR-ND	3,500	96.96/M	42563-9
			Tin Plated Phos. Brz.			X	—	X	A27669CT-ND◊	1.22	10.48	43.66	69.86	A27669TR-ND◊	3,500	69.86/M	42563-8
Reversible Flag - Side Feed - Insulation Support																	
6	12-16	.018	Tin Plated Phos. Brz.	.250 x .032	.130-.170	X	—	X	A27678CT-ND◊	1.34	11.45	47.71	76.34	A27678TR-ND◊	2,500	76.34/M	61188-1
Flag Non-Insulation Support																	
8	12-18	.018	Tin Plate Phos. Brz.	.250 x .032	—	X	—	X	A27670CT-ND#	1.14	9.81	40.86	65.38	A27670TR-ND#	4,000	49.04/M	62056-6
	12-18		Tin Plated Brass		—	X	—	X	A27671CT-ND#	.88	7.54	31.41	50.26	A27671TR-ND#	4,000	37.70/M	62056-3
	12-18		Tin Plated Brass		—	X	—	X	A27672CT-ND*	.88	7.54	31.41	50.26	A27672TR-ND*	4,000	37.70/M	62056-4
	10-12		Tin Plated Brass		—	X	—	X	A27673CT-ND†	1.08	9.28	38.65	61.84	A27673TR-ND†	4,000	46.38/M	62057-3
	10-12		Tin Plated Brass		—	X	—	X	A27674CT-ND††	1.88	16.16	67.31	107.70	A27674TR-ND††	4,000	80.78/M	62022-2
.205" Series																	
Insulation Support																	
1	18-22	.012	Tin Plated Brass	.020	.085-.125	X	—	X	A27681CT-ND	.73	6.22	25.93	41.48	A27681TR-ND	20,000	28.00/M	42198-2
	14-18	.016	Tin Plated Brass	.032	.130-.180	X	—	X	A27682CT-ND	.75	6.44	26.84	42.94	A27682TR-ND	8,000	32.21/M	42233-2
Non-Insulation Support																	
2	18-22	.012	Tin Plated Brass	.020	—	X	—	X	A27683CT-NDΔ	.71	6.06	25.24	40.38	A27683TR-NDΔ	20,000	27.26/M	42197-2
Flag Insulation Support																	
3	16-20	.012	Brass	.020	.110-.170	X	—	X	A27684CT-ND	.82	7.04	29.34	46.94	A27684TR-ND	5,000	35.21/M	42199-1
	16-20	.012	Tin Plated Brass	.020		X	—	X	A27685CT-ND	1.03	8.79	36.64	58.62	A27685TR-ND	5,000	43.97/M	42199-2
	14-20	.016	Brass	.032		X	—	X	A27686CT-ND	.87	7.47	31.14	49.82	A27686TR-ND	5,000	37.37/M	42234-1
	14-20	.016	Tin Plated Brass	.032		X	—	X	A27687CT-ND	.87	7.47	31.14	49.82	A27687TR-ND	5,000	37.37/M	42234-2
	14-20	.016	Tin Plated Brass	.020		X	—	X	A27688CT-ND	.92	7.85	32.69	52.30	A27688TR-ND	5,000	39.23/M	62354-1
.187" Series																	
Insulation Support																	
1	20-24	.012	Tin Plated Brass	.020	.040-.070	X‡	—	X‡	A27695CT-ND	.56	4.83	20.14	32.22	A27695TR-ND	20,000	21.75/M	60573-1
			Brass		.040-.070	X‡	—	X‡	A27696CT-ND	.72	6.18	25.76	41.22	A27696TR-ND	20,000	27.83/M	60573-2
			Tin Plated Brass		.060-.110	X‡	—	X‡	A27698CT-ND	.56	4.83	20.14	32.22	A27698TR-ND	20,000	21.75/M	62138-1
			Brass		.060-.110	X‡	—	X‡	A27699CT-ND	.56	4.83	20.14	32.22	A27699TR-ND	20,000	21.75/M	62138-2

‡ UL and CSA certified for 22-20 AWG § Recommended for external use only ◊ Internal or external use ≠ Left hand for internal or external use # Right hand, reverse reel * Left Hand † Right Hand
†† Right or left hand. Carrier is in front to facilitate thru splicing Δ No slots

(Continued)

AMP tyco Electronics Authorized Distributor

Premier and Commercial Fastons *(Cont.)*

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Amp Part No.
										10	100	500	1,000		Size	Pricing	
1	20-24	.012	Tin Plated Brass	.032	.040-.070	X‡	—	X‡	A27697CT-ND	.72	6.18	25.76	41.22	A27697TR-ND	20,000	27.83/M	62181-1
	16-20		Brass	.020	.090-.130	X	—	X	A27700CT-ND	.54	4.60	19.15	30.64	A27700TR-ND	20,000	20.69/M	42452-1
	16-20		Tin Plated Brass	.020	.090-.130	X	—	X	A24732CT-ND	—	—	—	30.64	A24732TR-ND	20,000	20.69/M	42452-2
	16-20		Brass	.032	.090-.130	X	—	X	A27702CT-ND	.59	5.09	21.21	33.94	A27702TR-ND	20,000	22.91/M	61758-1
	16-20		Brass	.020	.060-.110	X	—	X	A27703CT-ND	.72	6.18	25.76	41.22	A27703TR-ND	20,000	27.83/M	62137-1
	16-20		Tin Plated Brass	.020	.060-.110	X	—	X	A27704CT-ND	.72	6.18	25.76	41.22	A27704TR-ND	20,000	27.83/M	62137-2
1	16-18 or (2)18	.012	Brass	.020	(2).105 Max.	—	—	X	A27705CT-ND	.72	6.18	25.76	41.22	A27705TR-ND	18,000	27.83/M	60487-1
			Tin Plated Brass	.020		—	—	X	A27706CT-ND	.56	4.83	20.14	32.22	A27706TR-ND	18,000	21.75/M	60487-2
			Tin Plated Brass	.015		—	—	X	A27707CT-ND	.66	5.64	23.50	37.60	A27707TR-ND	20,000	25.38/M	61945-1
Non-Insulation Support																	
2	16-20	.012	Tin Plated Brass	.020	—	X	—	X	A27708CT-ND	.84	7.20	29.99	47.98	A27708TR-ND	12,000	32.39/M	42373-2
			Nickel Plated Steel	.020	—	—	X	—	A27709CT-ND	1.16	9.96	41.50	66.40	A27709TR-ND	12,000	44.82/M	42373-3
			Tin Plated Brass	.015	—	—	—	X	A27710CT-ND	1.25	10.70	44.58	71.32	A27710TR-ND	12,000	48.15/M	42374-2
Flag Insulation Support																	
3	16-20	.012	Brass	.020	.110-.170	X	—	X	A27711CT-ND	.63	5.39	22.46	35.94	A27711TR-ND	6,000	26.96/M	42486-1
			Tin Plated Brass	.020	.110-.170	X	—	X	A27712CT-ND	.63	5.39	22.46	35.94	A27712TR-ND	6,000	26.96/M	42486-2
			Tin Plated Brass	.032	.110-.170	X	—	X	A27713CT-ND	.63	5.39	22.46	35.94	A27713TR-ND	6,000	26.96/M	62591-1
			Brass	.020	.170-.225	X	—	X	A27714CT-ND	.82	7.04	29.34	46.94	A27714TR-ND	5,000	35.21/M	62817-1

‡ UL and CSA certified for 22-20 AWG § Recommended for external use only ◊ Internal or external use ≠ Left hand for internal or external use # Right hand, reverse reel ✱ Left Hand † Right Hand

†† Right or left hand. Carrier is in front to facilitate thru splicing Δ No slots

Premier - Loose Piece

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Pricing		Amp Part No.
										10	100	
.250” Series - Insulation Support												
1	18-22	.016	Tin Plated Brass	.250 x .032	.090-.130	X	—	X	A24736-ND	1.63	14.37	60878-2
	14-18	.018			.060-.110	X	—	X	A24744-ND	1.37	12.10	41729
	10-14	.018			.150-.200	X	—	X	A24737-ND	1.63	14.37	61227-1
.187” Series - Insulation Support												
1	16-20	.012	Tin Plated Brass	.020	.090-.130	X	—	X	A24732-ND	1.45	12.72	42566-2

Commercial

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing				Digi-Key Part No.	Tape & Reel		Amp Part No.
							10	100	500	1,000		Size	Pricing	
.250” Series - Insulation Support														
1	16-20, (2)23 or (2)20	.016	Brass	.250 x .032	.100-.140 or (2).060 Max	A27679CT-ND§	.84	7.19	29.94	47.90	A27679TR-ND§	12,000	32.34/M	60384-1
	14-18 or (2)17	.016	Tin Plated Brass	.250 x .032	.120-.170 or (2).060 Max	A27680CT-ND§	1.05	9.02	37.58	60.12	A27680TR-ND§	12,000	40.59/M	60385-2
Flag														
2	20-24	.016	Tin Plated Brass	.250 x .032	.048-.078	A27646CT-ND✱	1.70	14.60	60.85	97.36	A27646TR-ND✱	3,000	97.36/M	60736-2
	16-22		Brass		.090-.140	A27647CT-ND	.71	6.07	25.29	40.46	A27647TR-ND	3,000	40.46/M	62418-1
	16-22		Tin Plated Brass		.090-.140	A27648CT-ND	.93	7.99	33.29	53.26	A27648TR-ND	3,000	53.26/M	62418-2
	14-18		Brass		.090-.140	A27649CT-ND	.88	7.58	31.60	50.56	A27649TR-ND	3,000	50.56/M	60290-1
	14-18		Tin Plated Brass		.090-.140	A27650CT-ND	1.06	9.36	39.80	68.36	A27650TR-ND	3,000	60.76/M	60290-2
.187” Series - Insulation Support														
1	14-18	.014	Brass	.020	.150-.190	A27730CT-ND	.66	5.66	23.59	37.74	A27730TR-ND	12,000	25.48/M	62016-1
			Tin Plated Brass			A27731CT-ND	.89	7.82	33.26	49.51	A27731TR-ND	12,000	34.28/M	62016-2
	14-18 or (2)16	.014	Brass	.020	.180-.230 or (2).110 Max.	A27732CT-ND	.71	6.10	25.40	40.64	A27732TR-ND	12,500	27.44/M	60742-1
			Tin Plated Brass			A27733CT-ND	.71	6.10	25.40	40.64	A27733TR-ND	12,500	27.44/M	60742-2
Receptacle and Tab Combination														
3	16-20	.020 (tab) .014 (recep.)	Tin Plated Brass	.020	.090-.130	A27738CT-ND	1.21	10.39	43.30	69.28	A27738TR-ND	3,500	69.28/M	62026-1
			Brass		.090-.130	A27739CT-ND	1.07	9.19	38.30	61.28	A27739TR-ND	3,500	61.28/M	62026-2
			Tin Plated Brass		.060-.110	A27740CT-ND	1.38	11.82	49.25	78.80	A27740TR-ND	3,500	78.80/M	62139-1
Flag														
4	16-20	.012	Brass	.020	.090-.130	A27734CT-ND	.74	6.38	26.56	42.50	A27734TR-ND	4,000	31.88/M	60755-1
	16-20		Tin Plated Brass		.090-.130	A27735CT-ND	.98	8.40	34.99	55.98	A27735TR-ND	4,000	41.99/M	60755-2
	18-22		Brass		.060-.070	A27736CT-ND	1.79	15.30	63.75	102.00	A27736TR-ND	4,000	76.50/M	62085-1
	18-22		Tin Plated Brass		.060-.070	A27737CT-ND	1.35	11.57	48.20	77.12	A27737TR-ND	4,000	57.84/M	62085-2
.110” Series														
Insulation Support														
5	22-24	.010	Pre-Tin Brass	.020	.040-.060	A27745CT-ND†	.60	5.18	21.56	34.50	A27745TR-ND†	20,000	23.29/M	42067-1
				.016		A27746CT-ND	.60	5.18	21.56	34.50	A27746TR-ND	15,000	23.29/M	42415-1
	18-22	.010	Brass	.020	.060-.100	A24745CT-ND	.58	4.95	20.63	33.00	A24745TR-ND	15,000	22.28/M	42068
			Pre-Tin Brass	.020	.060-.100	A27747CT-ND	.42	3.63	15.11	24.18	A27747TR-ND	15,000	16.33/M	42068-1
			Pre-Tin Brass	.016	.060-.100	A27748CT-ND	.60	5.18	21.56	34.50	A27748TR-ND	15,000	23.29/M	60118-1
			Pre-Tin Brass	.032	.060-.100	A27749CT-ND	.49	4.17	17.39	27.82	A27749TR-ND	15,000	18.78/M	60197-1
			Pre-Tin Brass	032	.060-.100	A27750CT-ND	.63	5.44	22.65	36.24	A27750TR-ND	15,000	24.47/M	60577-1
			Pre-Tin Brass	.020	.090-.130	A27751CT-ND	.49	4.19	17.45	27.92	A27751TR-ND	15,000	18.85/M	62094-1
			Pre-Tin Brass	.020	.120-.140	A27752CT-ND	.60	5.18	21.56	34.50	A27752TR-ND	12,000	23.29/M	60729-1
			Pre-Tin Brass	.025	.120-.140	A27753CT-ND	.75	6.47	26.94	43.10	A27753TR-ND	12,000	29.10/M	61158-1
	16-20	.010	Pre-Tin Brass	.020	.120-.140	A27754CT-ND	.45	3.82	15.91	25.46	A27754TR-ND	15,000	17.19/M	61400-1
			Pre-Tin Brass	.020	.060-.100	A27755CT-ND	.71	6.05	25.20	40.32	A27755TR-ND	15,000	27.22/M	61408-1
			Pre-Tin Brass	.032	.120-.140	A27756CT-ND	.50	4.27	17.79	28.46	A27756TR-ND	12,500	19.22/M	62050-1
			Tin Plated Brass	.020	.150-.170	A27757CT-ND	.56	4.81	20.05	32.08	A27757TR-ND	10,000	21.66/M	62191-1
Non-Insulation Support														
6	18-20 or (2)20	.010	Pre-Tin Brass	.020	—	A27758CT-ND	.56	4.77	19.86	31.78	A27758TR-ND	25,000	19.87/M	42399-1
	16-20			.016	—	A27759CT-ND	.54	4.65	19.39	31.02	A27759TR-ND	20,000	20.94/M	61457-1
	14-18			.020	—	A27760CT-ND	.73	6.22	25.93	41.48	A27760TR-ND	6,000	31.11/M	62852-1
Flag Insulation Support														
7	18-22	.012	Tin Plated Brass	.020	.060-.100	A27761CT-ND	.76	6.55	27.28	43.64	A27761TR-ND	12,000	29.46/M	61070-1
		.012	Brass	.020		A27762CT-ND	.68	5.81	24.23	38.76	A27762TR-ND	12,000	26.17/M	61070-2
		.010	Pre-Tin Brass	.020		A27763CT-ND	.73	6.26	26.10	41.76	A27763TR-ND	12,000	28.19/M	61481-1
		.010	Pre-Tin Brass	.032		A27764CT-ND	.73	6.26	26.10	41.76	A27764TR-ND	12,000	28.19/M	62336-1
8	18-22	.010	Pre-Tin Brass	.020	.065-.100	A27765CT-ND	.76	6.55	27.29	43.66	A27765TR-ND	12,000	29.48/M	61372-1
				.016		A27766CT-ND‡	.92	7.87	32.79	52.46	A27766TR-ND‡	8,000	39.35/M	61459-1
				.025		A27767CT-ND‡	.73	6.29	26.23	41.96	A27767TR-ND‡	12,000	28.33/M	61530-1
Flag Non-Insulation Support														
9	16-22	.012	Brass	.020	—	A27768CT-NDΔ	.88	7.54	31.43	50.28	A27768TR-NDΔ	15,000	33.94/M	60991-1
		.010	Pre-Tin Brass		—	A27769CT-NDΔ	.64	5.59	23.78	35.39	A27769TR-NDΔ	15,000	22.69/M	61549-1
		.010	Pre-Tin Brass		—	A27770CT-NDΔ	.60	5.18	21.60	34.56	A27770TR-NDΔ	15,000	23.33/M	62321-1

§ AMPLIVAR fastons - use with magnet wire ✱ UL listed and CSA certified for 20-22 AWG wire only † UL listed for 22 AWG wire only ‡ CSA certified only Δ UL listed and CSA certified for 18-22 AWG only

Fig. 1

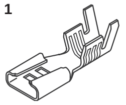


Fig. 2

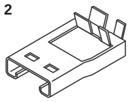


Fig. 3

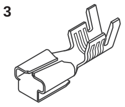


Fig. 4

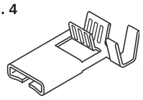


Fig. 5

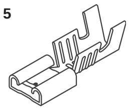


Fig. 6

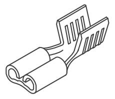


Fig. 7

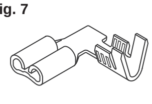


Fig. 8

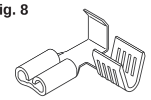
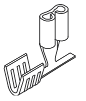


Fig. 9



Moldable Line FASTONS

Fig.	AWG	Stock Thick-ness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Amp Part No.
						.250” Series								
						Insulation Support								
1	18-22	.016	Brass	.250 x .032	.090-.130	A27651CT-ND	.64	5.46	22.74	36.38	A27651TR-ND	10,000	24.56/M	63127-1
	14-18		Brass		.120-.170	A27652CT-ND	.43	3.69	15.39	24.62	A27652TR-ND	10,000	16.62/M	60650-1
	14-18		Tin Plated Brass		.120-.170	A27653CT-ND	.66	5.63	23.44	37.50	A27653TR-ND	10,000	25.32/M	60650-2
						Non-Insulation Support								
2	14-18	.016	Brass	.250 x .032	—	A27654CT-ND	.67	5.72	23.84	38.14	A27654TR-ND	6,000	28.61/M	60938-1
			Tin Plated Brass		—	A27655CT-ND	.88	7.52	31.34	50.14	A27655TR-ND	6,000	37.61/M	60938-2
						Flag-Insulation Support								
3	12-18	.016	Brass	.250 x .032	.110-.210	A27656CT-ND	.69	5.93	24.71	39.54	A27656TR-ND	4,000	29.66/M	60641-1
						.205” Series								
						Flag-Insulation Support								
3	14-20	.016	Brass	.032	.100-.170	A27693CT-ND	1.05	9.00	37.51	60.02	A27693TR-ND	5,000	45.02/M	60195-1
			Tin Plated Brass			A27694CT-ND	1.19	10.23	42.63	68.20	A27694TR-ND	5,000	51.15/M	60195-2
						.187” Series								
1	16-20	.012	Brass	.020	.090-.130	A27741CT-ND	.32	2.76	11.50	18.40	A27741TR-ND	20,000	12.42/M	60214-1
			Tin Plated Brass			A27742CT-ND	.66	5.65	23.54	37.66	A27742TR-ND	20,000	25.43/M	60214-2
						Flag-Insulation Support - Economy Line								
3	16-20	.012	Brass	.020	.110-.170	A27743CT-ND	.67	5.73	23.88	38.20	A27743TR-ND	6,000	28.65/M	61029-1
			Tin Plated Brass			A27744CT-ND	.59	5.04	20.99	33.58	A27744TR-ND	6,000	25.19/M	61029-2

Fig. 1

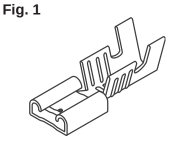


Fig. 2

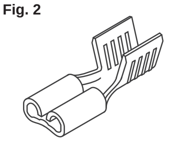
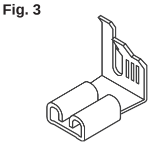


Fig. 3



.250” Series FASTIN-FASTON Connectors

Fig. 1

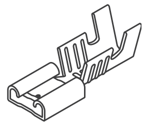


Fig. 2

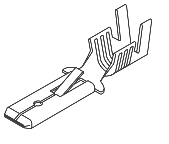


Fig. 3

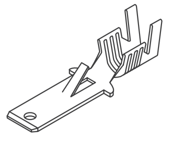


Fig. 4

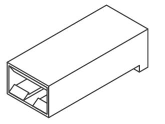


Fig. 5

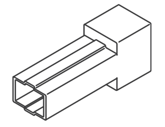


Fig. 6

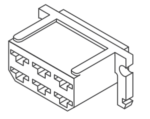
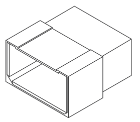


Fig. 7



Receptacles

Fig.	AWG	Stock Thick-ness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Amp Part No.
						Use with Single Circuit Connectors								
1	14-18	.016	Brass	.032	.120-.160	A27926CT-ND	.89	7.66	31.91	51.06	A27926TR-ND	11,000	34.47/M	42281-1
	14-18		Tin Plated Brass		.120-.160	A27927CT-ND	.89	7.66	31.91	51.06	A27927TR-ND	11,000	34.47/M	42281-2
	14-18		Brass		.120-.160	A27928CT-ND*	.80	6.89	28.70	45.92	A27928TR-ND*	10,000	31.00/M	60634-1
	12-16 or (2)16		Brass		.160-.220 or (2).130 Max.	A27929CT-ND	1.07	9.21	38.39	61.42	A27929TR-ND	9,000	46.07/M	60249-1
	12-16 or (2)16		Tin Plated Brass		.160-.220 or (2).130 Max.	A27930CT-ND	.94	8.06	33.58	53.72	A27930TR-ND	9,000	40.29/M	60249-2
						Use with Multiple Circuit Connectors								
1	18-22	.012	Tin Plated Brass	.032	.085-.125	A27933CT-ND	.89	7.66	31.91	51.06	A27933TR-ND	12,000	34.47/M	60295-2
	18-22		Tin Plated Brass		.060-.100	A27934CT-ND	1.17	10.07	41.96	67.14	A27934TR-ND	12,000	45.32/M	60413-1
	14-18		Brass		.120-.160	A27935CT-ND	.89	7.66	31.91	51.06	A27935TR-ND	12,000	34.47/M	42100-1
	14-18		Tin Plated Brass		.120-.160	A27936CT-ND	.89	7.66	31.91	51.06	A27936TR-ND	12,000	34.47/M	42100-2
	12-16 or (2)16		Tin Plated Brass		.160-.210 or (2).130 Max.	A27937CT-ND	1.04	8.88	36.99	59.18	A27937TR-ND	10,000	39.95/M	60253-2

* No front slot

Tabs

Fig.	AWG	Stock Thick-ness (Inch)	Material & Finish	Tab Thick-ness (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Amp Part No.
						Use with Single or Multiple Circuit Connectors								
2	18-22	.015	Brass	.032	.085-.125	A27920CT-ND	1.56	13.34	55.56	88.90	A27920TR-ND	9,000	66.68/M	62553-1
	18-22		Tin Plated Brass		.085-.125	A27921CT-ND	1.25	10.72	44.65	71.44	A27921TR-ND	9,000	53.58/M	62553-3
	14-18		Brass		.120-.160	A27922CT-ND	.75	6.44	26.81	42.90	A27922TR-ND	6,000	32.18/M	42460-1
	14-18		Tin Plated Brass		.120-.160	A27923CT-ND	.73	6.27	26.14	41.82	A27923TR-ND	6,000	31.37/M	42460-2
	10-14		Tin Plated Brass		.120-.170	A27925CT-ND	.90	7.74	32.24	51.58	A27925TR-ND	9,000	38.69/M	60701-1
3	14-18	.015	Tin Plated Brass	.016	.120-.145	A27924CT-ND†	1.24	10.61	44.19	70.70	A27924TR-ND†	8,000	53.03/M	42580-2

† Used for back-to-back with a combined thickness of .032”

Nylon Housings - UL94 V-2

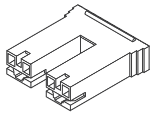
Fig.	Housing Type	Color	Digi-Key Part No.	Pricing 10	100	500	1,000	Amp Part No.
			Single Circuit Tab Housings					
4	Receptacle	Natural	A27915-ND	1.28	11.28	47.96	71.39	480054-3
	Receptacle	Black	A27917-ND	2.39	21.05	89.51	133.24	480054-4
	Receptacle	Red	A27918-ND	2.35	20.67	87.90	130.85	480054-5
5	Tab	Natural	A27916-ND	1.31	11.52	48.98	72.91	480053-3
	Tab	Red	A27919-ND	2.35	20.67	87.90	130.85	480053-5
			Six Circuit Tab Housings					
6	Receptacle	Natural	A27931-ND	8.33	73.31	311.79	464.12	480003-5
7	Tab	Natural	A27932-ND	8.54	75.13	319.55	475.66	480004-5

Water Valve Coil Connector

This connector is designed to mate with the Appliance Industry's Standard Water Valve Coil. The connector is suitable for such applications as washing machine mixing valves, dishwasher fill valves and refrigerators with automatic ice makers.

Specifications: • Material: Nylon • UL 94 Flammability Rating: V-2

Features: • Prevents terminal back-out of housing through plastic retention feature



Color	Digi-Key Part No.	Pricing 10	100	500	1,000	Amp Part No.
Natural	A27938-ND	1.34	11.82	50.28	74.84	520935-1
Red	A27939-ND	2.31	20.36	86.60	128.91	520935-2

FASTON Tabs

Fig.	Stud Dia. (Inch)	Stock Thick-ness (Inch)	Material/Finish and Description	RU	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	Amp Part No.
.250" Series (dimple - both sides)											
1	.177	.032	Brass	—	—	A27857-ND	.73	6.38	27.14	40.40	63038-2
2	.130	.032	Tin Plated Brass	X	X	A27858-ND	.83	7.31	31.09	46.27	42822-2
	.145		Tin Plated Brass	X	X	A27859-ND	.97	8.55	36.35	54.11	42822-4
	.171		Brass	X	X	A27860-ND	1.36	11.94	50.79	75.60	60465-1
	.171		Tin Plated Brass	X	X	A27861-ND	.98	8.65	36.78	54.76	60465-2
	.197		Tin Plated Brass	X	X	A27863-ND	.98	8.65	36.78	54.76	61499-1
	.203		Tin Plated Brass	X	X	A27862-ND	1.00	8.81	37.47	55.77	61365-1
3	.097	.032	Brass	X	X	A27864-ND	3.51	30.86	131.24	195.35	41339
	.130		Tin Plated Brass	X	X	A27865-ND	2.08	18.27	77.70	115.65	42095-1
	.130		Tin Plated Brass	X	X	A27866-ND	.93	8.20	34.86	51.89	42117-2
	.171		Brass	X	X	A27867-ND	1.30	11.40	48.48	72.17	42214-1
	.171		Tin Plated Brass	X	X	A27868-ND	1.04	9.13	38.84	57.82	42214-2
4	.125	.032	Brass	X	X	A27869-ND	1.53	13.47	57.29	85.27	41398
5	.130	.032	Tin Plated Brass	X	X	A27870-ND	1.03	9.08	38.62	57.49	42506-2
6	.097	.032	Tin Plated Brass, 1 Pair	—	—	A27882-ND	.92	8.06	34.27	51.01	60080-2
	.130		Brass, 1 Pair	X	X	A27872-ND	1.02	8.94	38.00	56.57	41290
	.130		Brass, 2 Pair	X	X	A27873-ND	2.07	18.22	77.49	115.34	41291
	.130		Brass, 3 Pair	X	X	A27874-ND	2.79	24.51	104.26	155.20	41292
	.130		Brass, 4 Pair	X	X	A27875-ND	7.26	63.86	271.60	404.29	41370
	.130	.032	Tin Plated Brass, 1 Pair	X	X	A27876-ND	.92	8.06	34.27	51.01	41480
	.130		Tin Plated Brass, 2 Pair	X	X	A27877-ND	2.16	19.01	80.87	120.37	41481
	.130		Tin Plated Brass, 3 Pair	X	X	A27878-ND	6.41	56.37	239.76	356.89	41482
	.171		Brass, 1 Pair	X	X	A27880-ND	1.02	8.94	38.00	56.57	41619
	.171		Tin Plated Brass, 1 Pair	X	X	A27881-ND	2.40	21.14	89.92	133.85	42802-1
7	.130	.032	Brass	X	X	A27871-ND	2.27	19.94	84.82	126.26	62261-1
Cut Tape and Tape & Reel											
6	.130	.032	Tin Plated Brass	X	X	A27879CT-ND	3.50	30.00	125.00	200.00	42115-4
						A27879TR-ND		600.00/3,000			
.187" Series											
3	.145	.020	Tin Plated Brass	X	X	A27894-ND	.70	6.12	26.03	38.75	61407-3
6	.130	.020	Tin Plated Brass	X	X	A27893-ND	1.03	9.05	38.47	57.27	61951-1
8	.130	.020	Tin Plated Brass	X	X	A27895-ND†	.62	5.48	23.29	34.67	61761-2
	.145		Brass	X	X	A27896-ND†	.91	8.00	34.03	50.66	62576-1
	.171		Tin Plated Brass	X	X	A27897-ND§	.58	5.09	21.64	32.21	61664-1

† Bent 45° § Bent 90°

Fig. 1

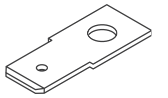


Fig. 2

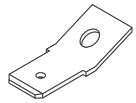


Fig. 3

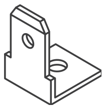


Fig. 4

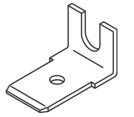


Fig. 5

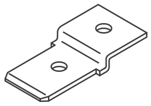


Fig. 6

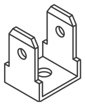


Fig. 7

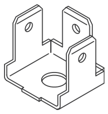
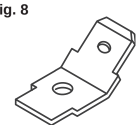


Fig. 8



Wire Crimp and Printed Circuit Board Tabs

Fig. 1

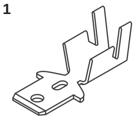


Fig. 2

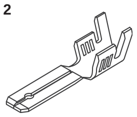


Fig. 3

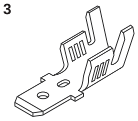


Fig. 4

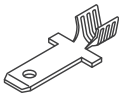


Fig. 5

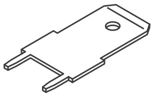


Fig. 6

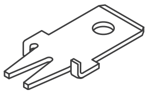


Fig. 7

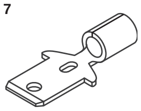


Fig. 8

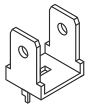


Fig. 9

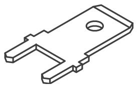


Fig. 10

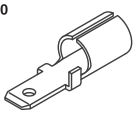


Fig. 11

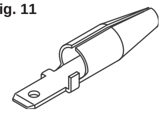
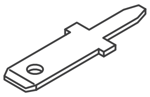


Fig. 12



Wire Crimp

Fig.	AWG	Stock Thick-(Inch)	Material & Finish	Tab Thick-ness (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Amp Part No.
.250" Series																	
1	14-18	.032	Brass	.032	.120-.170	X	—	X	A27887CT-ND	.77	6.62	27.56	44.10	A27887TR-ND	8,000	33.08/M	41411
	14-18		Tin Plated Brass			X	—	X	A27888CT-ND	.62	5.35	22.29	35.66	A27888TR-ND	8,000	26.75/M	41412
2	18-22	.016	Brass	.032	.080-.120	—	X	X	A27883CT-ND	1.67	14.29	59.53	95.24	A27883TR-ND	3,500	95.24/M	42475-3
	18-22		Tin Plated Brass		.080-.120	—	X	X	A27884CT-ND	1.07	9.16	38.16	61.06	A27884TR-ND	3,500	61.06/M	42475-4
	14-18		Tin Plated Brass		.110-.150	—	X	X	A24741CT-ND	1.18	10.10	42.08	67.32	A24741TR-ND	3,000	67.32/M	42474-2
	14-18		Brass		.110-.150	—	X	X	A27885CT-ND	.83	7.14	29.76	47.62	A27885TR-ND	3,000	47.62/M	42474-3
	14-18		Tin Plated Brass		.110-150	—	X	X	A27886CT-ND	1.07	9.16	38.16	61.06	A27886TR-ND	3,000	61.06/M	42474-4
	12-14		Tin Plated Brass		.110-.170	—	X	X	A27889CT-ND	1.09	9.36	39.00	62.40	A27889TR-ND	3,000	62.40/M	61281-3
.187" Series																	
3	18-22	.020	Tin Plated Brass	.020	.080-.120	X	—	X	A27898CT-ND	.70	6.00	24.99	39.98	A27898TR-ND	5,000	29.99/M	42490-3
	18-22		Brass	.020	.080-.120	X	—	X	A27899CT-ND	.88	7.58	31.60	50.56	A27899TR-ND	5,000	37.92/M	42490-4
	14-18		Brass	.020	.120-.150	X	—	X	A27900CT-ND	.81	6.96	29.01	46.42	A27900TR-ND	3,500	46.42/M	60850-1
	14-18		Tin Plated Brass	.020	.120-.150	X	—	X	A27901CT-ND	1.09	9.36	39.00	62.40	A27901TR-ND	3,500	62.40/M	60850-2
	14-18		Tin Plated Brass	.032	.120-.150	X	—	X	A27902CT-ND*	1.04	8.94	37.26	59.62	A27902TR-ND*	3,500	59.62/M	61687-2
.110" Series																	
4	18-22	.020	Pre-Tin Brass	—	—	X	—	X	A24783CT-ND	.85	7.28	30.34	48.54	A24783TR-ND	10,000	32.77/M	62122-1
	18-22	.020	Pre-Tin Brass	—	—	X	—	X	A24784CT-ND	1.06	9.06	37.76	60.42	A24784TR-ND	10,000	40.79/M	62384-1

* Premilled dual stock thickness

Printed Circuit Board Tabs

Fig.	Fits Tab Size (Inch)	Material & Finish	PCB Hole Dia. (Inch)	PCB Thickness (Inch)	RU	CSA	Digi-Key Part No.	Loose Piece Pricing 10	100	Amp Part No.	Digi-Key Part No.	Cut Tape Pricing 10	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Amp Part No.
.250" Series																	
5	.250 x .032	Tin Plated Brass	.055	.125	X	X	A24742-ND	.56	4.96	62409-1	A24742CT-ND	—	38.33	A24742TR-ND	6,000	23.00/M	62650-1
6		Tin Plated Brass	.100	.062	X	X	A24743-ND	1.64	14.40	63067-1	A24743CT-ND	—	74.28	A24743TR-ND	4,000	44.57/M	63066-1
.187" Series																	
7	.187 x .020	Pre-Plated Brass	.097	.062	X	X	A24733-ND	1.17	10.29	61907-1	—	—	—	—	—	—	—
8	.187 x .020	Pre-Tin Brass	.137	.062	X	X	—	—	—	—	A24734CT-ND	.93	52.92	A24734TR-ND	10,000	35.73/M	62221-1
9	.187 x .032	Tin-Plated Brass	.055	.125	X	X	—	—	—	—	A24735CT-ND	.69	39.24	A24735TR-ND	10,000	26.49/M	63525-1
.110" Series																	
10	.110 x .020	Tin Brass	.057	.032 -.093	X	X	A24840-ND	1.13	9.91	61134-3	—	—	—	—	—	—	—
11			.064	.032 -.093	X	X	—	—	—	—	A24746CT-ND	1.29	73.66	A24746TR-ND	4,000	55.25/M	61968-1
12			.046	.062	X	X	—	—	—	—	A24747CT-ND	.85	48.54	A24747TR-ND	10,000	32.77/M	62395-1

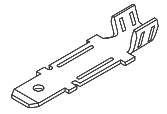
(Continued)

AMP tyco Electronics Authorized Distributor

FASTON Tabs *(Cont.)*

High Temperature Tabs (343° to 371°C)

AWG	Material & Finish	Tab Thickness (Inch)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Amp Part No.
.312" Series											
15-20	Steel Nickel Plated	.032	A27904CT-ND	1.25	10.70	44.58	71.32	A27904TR-ND	2,000	71.32/M	63300-1
.250" Series											
15-20	Steel Nickel Plated	.032	A27905CT-ND†	1.18	10.13	42.23	67.56	A27905TR-ND†	2,000	67.56/M	63301-1



† Dimple instead of a hole

Tab Adapters

Fig.	Dual Thickness (Inch)	Material & Finish	Fits Tab (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	Amp Part No.
.250" Series Tab Adapters											
1	.018 - .032	Brass	.032	X	—	A27890-ND	1.44	12.65	53.80	80.09	61765-1
		Tin Plated Brass		X	—	A27891-ND	1.43	12.62	53.70	79.93	61765-2
2	—	Tin Plated Brass	.032	—	—	A27892-ND	2.59	22.82	97.06	144.48	61810-2
.187" Series Tab Adapters											
1	.013 x.020	Tin Plated Brass	.020	X	X	A27903-ND*	1.10	9.64	41.02	61.05	61045-2

Fig. 1

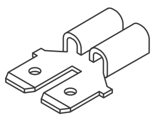
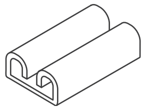


Fig. 2



* Premilled dual stock thickness

AMP tyco Electronics Authorized Distributor

Positive Lock Mark I and II

6/6 Nylon Housing - UL94 V-2

Fig.	Housing Type	Color	Digi-Key Part No.	Pricing 10	100	500	1,000	Amp Part No.
.250" Mark I - 1 Position								
1	Receptacle	Black	A24749-ND*	1.20	10.52	44.74	66.59	520961-1

* Press-to-release with secondary lock

Fig. 1

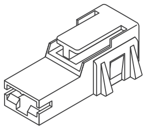


Fig. 2

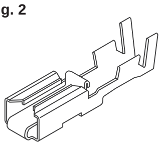
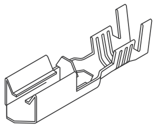


Fig. 3



Receptacles

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Tab Thickness (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Amp Part No.
.250" Series - Mark I														
2	14-18	.016	Brass/Tin	—	.095-.125	A24750CT-ND	1.93	16.53	68.88	110.20	A24750TR-ND	1,500	110.20/M	154718-3
	11-13			—	.135-.170	A24751CT-ND	2.00	17.18	71.59	114.54	A24751TR-ND	1,500	114.54/M	154717-3
.250" Series - Mark II														
3	18-22	—	Brass/Tin	.032	.060-.100	A24752CT-ND	.88	7.52	31.33	50.12	A24752TR-ND	6,000	37.59/M	63119-1
	14-18	—			.090-.155	A24753CT-ND	.72	6.21	25.86	41.38	A24753TR-ND	6,000	31.04/M	63097-1
	14-18	—			.090-.155	A24754CT-ND	.90	7.75	32.28	51.64	A24754TR-ND	6,000	38.73/M	63809-1
	10-12	—			.150-.200	A24755CT-ND	1.03	8.87	36.95	59.12	A24755TR-ND	6,000	44.34/M	63239-1
.187" Series - Mark II														
3	16-20	—	Brass/Tin	.020	.090-.130	A24756CT-ND	.64	5.45	22.73	36.36	A24756TR-ND	12,000	24.55/M	63195-1
	20-24	—	Brass/Pre-Tin	.032	.060-.110	A24757CT-ND	.86	7.34	30.56	48.90	A24757TR-ND	12,000	33.01/M	63196-2

AMPIP Post-Insulation Pods - Receptacle Housings

Fig.	Material	Flammability Rating Of Plastic Material	Color	Insulaton Max. Dia. (Inch)	Fits Tab Size (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	Amp Part No.
Flag Style													
1	Nylon	UL94V-2	Natural	.210	.250	X	X	A27908-ND	1.05	9.27	39.43	58.70	1-480307-1
	Nylon	UL94V-2	Natural	.140 or (2).110	.250	X	X	A27909-ND	4.73	41.64	177.13	263.66	1-480306-1
	Vinyl	UL94HB	Blue	.150	.250	—	—	A27910-ND	3.73	32.82	139.61	207.81	480019-6
	Nylon	UL94V-2	Natural	.175	.187	X	X	A27911-ND	7.04	61.91	263.34	391.99	1-480487-2
Straight Style													
2	Nylon	UL94V-2	Natural	.200	.250	X	X	A27912-ND	1.02	8.97	38.13	56.76	1-480416-0
				.180	.205	X	X	A27913-ND	2.63	23.10	98.25	146.25	1-480418-0
				.170	.187	X	X	A27914-ND	1.02	9.02	38.34	57.08	1-480435-0

Fig. 1

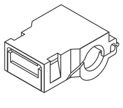
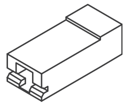


Fig. 2



Line Splice Connector

Fig.	Material and Finish	Fits Tab Size (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	Amp Part No.
1	Plastic Tube over Brass Tab	.250	—	—	A24729-ND	2.23	19.58	83.29	123.98	321235
	Plastic Tube over Tin Plated Brass Tab		X	X	A24730-ND†	3.35	29.50	125.48	186.79	1-321235-1
2	Natural Nylon Housing over Brass Tab	.187	X	—	A24731-ND*	6.77	59.58	253.39	377.19	360035-1

Fig. 1

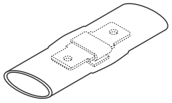
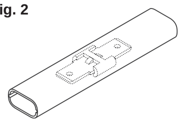


Fig. 2



† Recommended for UL applications * Flammability UL94V-2 rating of plastic material

Tools

A9796-ND Tool Die Set 14-26AWG, Ultrafast **$211.50**

A9996-ND PRO-CRIMPER II Hand Tool without Dies **$66.00**

Ring Tongue Terminals

PLASTI-BOND Ring Tongue

Temperature Rating: 85°C Max. **Material:** • Insulation: Vinyl • Terminal Body and Metallic Sleeve: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727.

AWG	Stud Size	Insulation Diameter Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
20-16	14	.170	A27549-ND	.84	.74	36273
		.200	A27550-ND	1.60	1.41	320699
16-14	14	.190	A27551-ND	1.12	.99	35626
	1/4	.215	A27552-ND	1.08	.95	35628
12-10	1/4	.230	A27553-ND	1.59	1.40	35627

AMPLI-BOND Ring Tongue

Temperature Rating: 105°C Max.

Material:

- Insulation: Vinyl
- Terminal Body: Copper per ASTM B-152
- Insulation Support Ring: Steel per ASTM-A-109
- Plating: Tin per MIL-T-10727

Fig. 1

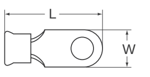
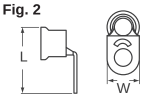
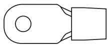


Fig. 2



AWG	Stud Size	Dimensions W x L	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Straight - Fig. 1							
8 Red	8	.375 x 1.549	.298	A27543-ND	1.44	1.27	330600
	8	.478 x 1.586	.298	A27359-ND	1.44	1.27	322047
	10	.375 x 1.315	.298	A28019-ND	2.54	2.24	54739-1
	10	.375 x 1.579	.298	A27544-ND	1.44	1.27	323974
	10	.406 x 1.328	.298	A27360-ND	1.44	1.27	323197
	10	.431 x 1.562	.298	A27361-ND	1.49	1.31	322128
	10	.431 x 1.562	.377	A28021-ND	3.41	3.00	322154
	10	.478 x 1.586	.298	A27545-ND	1.44	1.27	322048
	10	.587 x 1.702	.298	A28022-ND	2.06	1.81	322002
	1/4	.478 x 1.586	.298	A27362-ND	1.49	1.31	322049
	1/4	.478 x 1.586	.377	A28024-ND	2.03	1.79	327268
	1/4	.587 x 1.702	.298	A28026-ND	2.54	2.24	321669
	5/16	.587 x 1.702	.298	A27363-ND	1.49	1.31	322003
	5/16	.587 x 1.702	.377	A27546-ND	3.44	3.02	328525
	3/8	.587 x 1.702	.298	A27364-ND	2.06	1.82	322004
	1/2	.875 x 1.846	.298	A28023-ND	3.06	2.69	328463
6 Blue	10	.468 x 1.727	.377	A27365-ND	1.88	1.66	322153
	10	.500 x 1.852		A28027-ND	1.87	1.65	322050
	1/4	.500 x 1.852		A27367-ND	1.88	1.66	322051
	5/16	.625 x 1.914		A27547-ND	1.88	1.66	322006
	3/8	.625 x 1.914		A27369-ND	1.88	1.66	322007
4 Yellow	10	.546 x 1.908	.436	A27370-ND	2.53	2.23	322052
	10	.679 x 1.974		A28028-ND	3.23	2.84	322009
	1/4	.546 x 1.908		A27371-ND	2.61	2.30	322053
	1/4	.679 x 1.974		A28030-ND	4.60	4.04	321671
	5/16	.679 x 1.974		A27373-ND	2.31	2.03	322010
	3/8	.679 x 1.974		A27374-ND	2.61	2.30	322011
	1/2	.679 x 1.974		A28029-ND	4.57	4.02	328221
2 Red	1/4	.675 x 2.050	.505	A27375-ND	3.12	2.75	322125
	1/4	.675 x 2.112	.632	A28035-ND	2.98	2.62	322157
	5/16	.711 x 2.068	.505	A27548-ND	5.01	4.41	322074
	5/16	.711 x 2.130	.632	A28037-ND	3.59	3.16	326896
	3/8	.711 x 2.068	.505	A27376-ND	3.12	2.75	322055
2/0 Yel.	3/8	.926 x 2.540	.684	A27377-ND	9.86	8.68	322090
Right Angle - Fig. 2							
8 Red	8	.375 x .318	.298	A28018-ND	2.28	2.00	54575-1
	10	.431 x .318		A28020-ND	2.66	2.34	322880
	1/4	.587 x .381		A28025-ND	3.62	3.19	323869
6 Blue	10	.500 x .317	.377	A27366-ND	3.90	3.43	322887
	1/4	.500 x .379		A27368-ND	2.72	2.40	322888
4 Yellow	1/4	.546 x .377	.436	A27565-ND	2.95	2.60	322894
	5/16	.679 x .470		A28032-ND	3.13	2.75	322897
	3/8	.679 x .470		A28031-ND	2.95	2.60	322898
2 Red	1/4	.610 x .343	.505	A28033-ND	3.79	3.34	52097
	1/4	.675 x .371		A28034-ND	4.05	3.56	322900
	5/16	.711 x .465		A28036-ND	3.67	3.23	322134

TERMINYL Ring Tongue



These terminals have been designed to provide insulated terminals and splices for large wire sizes, many of which are used in airborne and ground support applications. **Temperature Rating:** 105°C Max. **Material:** Insulation: Nylon Terminal Body: ASTM B-152 • Plating: Tin per MIL-T-10727

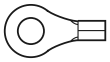
AWG	Stud Size	Dimensions – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
8 Red	8	.478 x 1.425	.256	A27378-ND	1.32	1.16	53041
	10	.431 x 1.402		A27379-ND	1.24	1.09	324043
	1/4	.478 x 1.425		A27380-ND	1.41	1.24	324082
	5/16	.587 x 1.542		A27381-ND	1.34	1.18	324044
	3/8	.587 x 1.542		A27382-ND	1.31	1.16	324045
6 Blue	10	.468 x 1.575	.314	A27383-ND	1.55	1.36	324046
	10	.398 x 1.700		A27384-ND	1.81	1.59	53119-1
	1/4	.500 x 1.700		A27385-ND	1.55	1.36	324047
	5/16	.625 x 1.762		A27386-ND	1.55	1.36	324048
	3/8	.625 x 1.762		A28015-ND	1.29	1.14	324049
4 Yellow	8	.437 x 1.376	.382	A27387-ND	2.01	1.77	331456
	10	.546 x 1.812		A27388-ND	2.05	1.80	324111
	10	.437 x 1.376		A27554-ND	3.14	2.76	1-331456-0
	1/4	.546 x 1.812		A27389-ND	1.87	1.65	324050
	5/16	.679 x 1.878		A27390-ND	1.87	1.65	324051
	3/8	.679 x 1.878		A27391-ND	2.13	1.87	324052
	1/2	.679 x 1.878		A28016-ND	2.15	1.89	324114
2 Red	10	.711 x 2.063	.468	A28017-ND	3.03	2.67	328655
	1/4	.679 x 2.045		A27392-ND	2.43	2.14	324053
	5/16	.711 x 2.063		A27393-ND	2.88	2.54	324112
	3/8	.711 x 2.063		A27394-ND	2.43	2.14	324054
1/0 Blue	1/4	.807 x 2.426	.580	A27395-ND	4.86	4.28	324056
	3/8			A27396-ND	3.31	2.92	324057

DIAMOND GRIP

These terminals are designed for complete uniform reliability under the most critical conditions of vibrations, thermal shock, corrosion, tensions and current overload. **Material:** Terminal Body and Metallic Sleeve: Copper per QQ-C-576 • Plating: Tin per MIL-T-10727 **AMP Wire:** Stranded **Temperature Rating:** 170°C Max.

AWG	Stud Size	Dimensions – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
26-22	0	.140 x .464	.082	A28038-ND	.39	.35	31516
	2	.140 x .464		A27397-ND	.39	.35	31518
	4	.203 x .585		A28039-ND	.39	.35	31679
	6	.250 x .679		A28040-ND	.39	.35	32861
22-16	4	.218 x .603	.125	A28041-ND	.41	.36	31094
	6	.218 x .603	.125	A27398-ND	.41	.36	31096
	6	.281 x .728	.125	A28042-ND	.39	.35	31269
	6	.281 x .728	.140	A28043-ND	.39	.35	31396
	8	.312 x .775	.125	A27399-ND	.39	.35	30996
	8	.312 x .775	.140	A28044-ND	.39	.35	31160
	8	.281 x .728	.125	A28045-ND	.39	.35	31270
	8	.281 x .728	.140	A28046-ND	.52	.46	31397
	10	.312 x .775	.125	A27400-ND	.41	.36	30997
	10	281 x .728	.140	A27401-ND	.39	.35	31398
16-14	6	.250 x .634	.170	A28047-ND	.52	.46	32190
	8	.343 x .790	.170	A28048-ND	.39	.35	30927
	10	.343 x .790	.150	A28049-ND	.41	.36	30993
	10	.343 x .790	.170	A28050-ND	.39	.35	30928
12-10	10	.375 x 1.007	.230	A27402-ND	.55	.49	31771
	1/4	.531 x 1.251		A28051-ND	.62	.55	31772
	3/8	.593 x 1.345		A28052-ND	.64	.57	31828

BUDGET - Ring Tongue



Budget Terminals are primarily the same as SOLISTRAND products except for the absence of the brazed seam in the wire barrel. This terminal is ideal for applications where extreme vibration and tension in the wire are not present.

• **Temperature Rating:** 170°C Max • **Material:** Terminal & Splice Body: Copper per ASTM B-152. Plating: Tin per MIL-T-10727 • **AMP Wire Range:** 22-16 Stranded, 16-14 Stranded, 12-10 Stranded • **UL Listed**

AWG	Stud Size	Dimensions – Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
26-22	0	.140 x .329	A28255-ND	.08	.07	31423
	2	.140 x .329	A27147-ND	.08	.07	31425
	2	.203 x .450	A28257-ND	.08	.07	33695
	2	.140 x .419	A28256-ND	.08	.07	322771
	4	.203 x .450	A27148-ND	.08	.07	31428
	6	.203 x .450	A27149-ND	.08	.07	31430
	6	.250 x .544	A28258-ND	.26	.23	32858
	8	.250 x .544	A28259-ND	.08	.07	32859
	10	.250 x .544	A28260-ND	.08	.07	32860
22-16	1	.218 x .449	A28261-ND	.09	.08	31087
	2	.218 x .499	A28263-ND	.09	.08	31088
	2	.182 x .446	A28262-ND	.09	.08	320677
	4	.218 x .449	A28265-ND	.09	.08	31089
	4	.182 x .446	A28264-ND	.33	.29	36189
	4	.250 x .621	A28266-ND	.09	.08	322418
	5	.218 x .449	A27150-ND	.09	.08	31090
	6	.218 x .449	A28267-ND	.09	.08	31091
	6	.281 x .574	A28269-ND	.09	.08	31264
	6	.312 x .621	A28270-ND	.09	.08	30691
	8	.312 x .621	A28273-ND	.09	.08	30692
	8	.281 x .574	A28272-ND	.09	.08	31265
	8	.344 x .653	A28274-ND	.09	.08	32823
	10	.312 x .621	A28276-ND	.09	.08	30693
	10	.281 x .574	A28275-ND	.09	.08	31266
	10	.344 x .653	A28277-ND	.33	.29	32824
	12	.312 x .621	A28278-ND	.09	.08	30694
	1/4	.469 x .856	A27151-ND	.38	.34	31172
	5/16	.469 x .856	A28281-ND	.11	.10	31173
	5/16	.531 x .995	A28282-ND	.22	.20	324124
	3/8	.531 x .995	A28280-ND	.22	.20	31498
	1/2	.713 x 1.070	A28279-ND	.31	.28	328970
16-14	2	.180 x .445	A28284-ND	.09	.08	326854
	4	.250 x .480	A28285-ND	.09	.08	32185
	6	.343 x .636	A28286-ND	.09	.08	30695
	6	.250 x .480	A28287-ND	.09	.08	32186
	6	.312 x .590	A28288-ND	.09	.08	321683
	8	.343 x .636	A28289-ND	.09	.08	30696
	8	.312 x .590	A28290-ND	.09	.08	322235
	10	.312 x .621	A28291-ND	.09	.08	51872-5
	10	.343 x .636	A27152-ND	.09	.08	30697
	12	.469 x .855	A28292-ND	.11	.10	31163
	14	.468 x .730	A28293-ND	.11	.10	34896
	1/4	.469 x .855	A28294-ND	.11	.10	31164
	5/16	.469 x .855	A28295-ND	.11	.10	31165
	3/8	.531 x .995	A28296-ND	.22	.20	31499
	1/2	.713 x 1.070	A28297-ND	.31	.28	328971
12-10	4	.281 x .630	A28299-ND	.15	.13	34891
	6	.281 x .630	A28300-ND	.15	.13	34892
	6	.375 x .765	A28301-ND	.15	.13	31112
	8	.312 x .708	A28302-ND	.15	.13	34404
	8	.375 x .765	A28303-ND	.15	.13	31113
	10	.343 x .723	A28304-ND	.15	.13	32882
	10	.375 x .765	A27153-ND	.15	.13	31114
	10	.500 x .865	A28305-ND	.17	.15	34964
	1/4	.500 x .865	A28307-ND	.17	.15	34965
	1/4	.531 x 1.004	A28308-ND	.17	.15	31122
	5/16	.531 x 1.004	A28312-ND	.17	.15	31123
	3/8	.593 x 1.098	A28309-ND	.17	.15	30972
	3/8	.750 x 1.271	A28310-ND	.33	.29	34833
	1/2	.715 x 1.102	A28306-ND	.33	.29	52269-1

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$66.00**
A9812-ND	Crimp Tool, Uninsulated Terminals with Die Set	**$118.50**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit	**$112.50**

Solistrand Ring Tongue Terminals

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire. The barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area.

Temperature Rating: 170°C Max.

Material: • Terminal Body: copper per ASTM B-152
• Plating: Tin per MIL-T-10727

UL Listed. CSA Certified. Military Approval.

Fig. 1

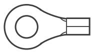


Fig. 2

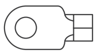


Fig.	AWG	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
1	26-22	2	.140 X .419	A27000-ND	.46	.41	50334
	22-16	2	.182 X .446	A27002-ND	.16	.14	322927
		2	.218 X .449	A27001-ND	.16	.14	34103
		4	.182 X .446	A27003-ND	.42	.37	36467
		4	.218 x .449	A0914-ND	.12	.11	34104
		4	.250 X .621	A28055-ND	.67	.59	323096
		6	.218 X .449	A0915-ND	.10	.05	34105
		6	.281 X .574	A27006-ND	.12	.11	34107
		6	.312 X .621	A27008-ND	.12	.11	34110
		8	.281 x .574	A0916-ND	.12	.11	34108
		8	.312 X .621	A27009-ND	.12	.11	34111
		10	.281 x .574	A0917-ND	.12	.11	34109
		10	.312 X .621	A27012-ND	.12	.11	34112
		10	.344 X .653	A27015-ND	.22	.19	323087
		1/4	.469 X .856	A0918-ND	.14	.12	34113
		1/2	.713 X 1.070	A27019-ND	.35	.31	329966
		5/16	.469 x .856	A0919-ND	.14	.13	34114
		3/8	.531 x .995	A0920-ND	.15	.13	34115
	16-14	4	.250 X .480	A27020-ND	.28	.25	34119
		6	.343 X .636	A27021-ND	.12	.11	34121
		6	.250 X .480	A0921-ND	.12	.11	34120
		6	.312 X .590	A27023-ND	.12	.11	321684
		8	.343 X .636	A0922-ND	.12	.11	34122
		8	.343 x .723	A27154-ND•	.27	.24	35432
		8	.312 X .590	A27025-ND	.17	.15	324955
		10	.343 X .636	A0923-ND	.12	.11	34123
		10	.312 X .669	A27028-ND	.16	.14	320093
		10	.343 x .723	A27155-ND•	.23	.20	34567
		1/4	.469 x .855	A0924-ND	.14	.12	34124
		1/4	.500 x .865	A27157-ND•	.30	.26	35775
		1/2	.750 X 1.184	A27031-ND	.35	.31	50981
		1/2	.750 x 1.271	A27160-ND•	1.57	1.39	321165
		5/16	.469 x .855	A0925-ND	.14	.13	34125
		5/16	.500 x .865	A27158-ND•	.34	.30	35776
		3/8	.531 x .995	A0152-ND	.17	.15	34126
		3/8	.750 x 1.271	A27159-ND•	.50	.44	327732
2	14-12	10	.421 X .739	A27032-ND	.22	.19	34484
		10	.312 X .685	A27033-ND	.24	.22	321828
		3/8	.687 X 1.120	A27034-ND	.61	.54	34486
1	12-10	4	.281 X .630	A27035-ND	.17	.15	322447
		6	.281 x .630	A0926-ND	.17	.15	35476
		6	.375 X .765	A27036-ND	.13	.12	33456
		8	.312 X .708	A27038-ND	.23	.20	322454
		8	.375 x .765	A0927-ND	.17	.15	32994
		10	.343 X .723	A27040-ND	.20	.18	322455
		10	.375 X .765	A0928-ND	.14	.07	33457
		10	.375 X .808	A27042-ND	.48	.43	31805
		10	.500 X .865	A27043-ND	.62	.55	35771
		1/4	.500 X .865	A27045-ND	.19	.17	35772
		1/4	.531 X 1.004	A0929-ND	.19	.17	33458
		5/16	.531 x 1.004	A0930-ND	.20	.18	33459
		3/8	.593 x 1.098	A0931-ND	.20	.18	33220
		1/2	.750 X 1.271	A27049-ND	.37	.33	35135
		1/2	1.250 X 1.896	A27050-ND	1.43	1.26	320763
		5/8	1.250 X 1.896	A27051-ND	1.43	1.26	320764
		1	1.250 X 1.896	A27052-ND	1.69	1.49	1-320765-0
	8	8	.406 X .949	A27053-ND	.43	.38	324061
		8	.469 X .933	A27054-ND	.42	.37	32996
		10	.469 X .933	A27055-ND	.42	.37	33460
		10	.406 X .949	A27057-ND	.43	.38	31807
		1/4	.469 X .933	A27059-ND	.36	.31	33461
		1/4	.594 X 1.168	A27061-ND	.57	.50	35247
		5/16	.594 X 1.168	A27062-ND	.57	.50	33462
		5/16	.562 X 1.074	A27063-ND	1.26	1.11	31808
		3/8	.594 X 1.168	A27064-ND	.59	.52	33463
		1/2	1.250 X 1.965	A27065-ND	1.67	1.47	35664
		5/8	1.250 X 1.965	A27066-ND	1.88	1.65	35665
	6	10	.406 X 1.181	A27067-ND	.62	.55	52197
		10	.406 X 1.181	A27068-ND	.77	.68	53106-1
		10	.625 X 1.246	A27069-ND	.62	.55	33464
		10	.468 X 1.168	A27070-ND	.64	.57	321298
		1/4	.625 X 1.246	A27071-ND	.39	.34	33465
		1/4	.468 X 1.168	A27073-ND	.53	.47	321598
		5/16	.625 X 1.246	A27074-ND	.53	.47	33466
		3/8	.625 X 1.246	A27076-ND	.53	.47	33467
		1/2	.875 X 1.840	A27077-ND	1.11	.98	320344
		1/2	1.250 X 2.033	A27078-ND	2.33	2.05	36808
		5/8	1.250 X 2.033	A27079-ND	1.19	1.05	36809
		3/4	1.250 X 2.033	A27080-ND	1.88	1.65	36810
	4	10	.656 X 1.314	A27081-ND	.89	.78	33468
		10	.500 X 1.199	A27082-ND	.92	.81	33114
		1/4	.656 X 1.314	A27083-ND	.73	.64	33469
1	4	1/4	.500 X 1.199	A27084-ND	.92	.81	31811
		5/16	.656 X 1.314	A27085-ND	.73	.64	33470
		5/16	.565 X 1.324	A27086-ND	1.23	1.08	33115
		3/8	.656 X 1.314	A27087-ND	.89	.78	33471
		3/8	.656 X 1.324	A27088-ND	1.23	1.08	31812
		1/2	1.250 X 2.090	A27089-ND	1.42	1.25	35668
		1/2	.875 X 1.902	A27090-ND	1.47	1.29	327175
		5/8	1.250 X 2.090	A27091-ND	1.42	1.25	35669
		3/4	1.250 X 2.090	A27092-ND	2.58	2.27	35670
	2	1/4	.890 X 1.657	A27095-ND	1.34	1.18	320138
		5/16	.890 X 1.657	A27096-ND	2.08	1.83	35183
		3/8	.890 X 1.657	A27099-ND	1.34	1.18	35184
		7/16	.890 X 1.657	A27100-ND	1.35	1.19	320741
		1/2	.890 X 1.657	A27101-ND	2.08	1.83	35185
		1/2	1.250 X 2.516	A27102-ND	6.20	5.45	323291
		5/8	1.250 X 2.516	A27103-ND	4.23	3.72	320754
2	2	10	.625 X 1.527	A27093-ND	1.62	1.42	330301
		1/4	.625 X 1.527	A27094-ND	1.20	1.06	320383
		5/16	.625 X 1.527	A27097-ND	1.08	.95	322870
		3/8	.625 X 1.527	A27098-ND	1.21	1.07	321600
1	1/0	1/4	.875 x 1.956	A27104-ND	2.05	1.80	36915
		1/4	.807 x 1.925	A27105-ND	2.11	1.86	321866
		5/16	.875 x 1.956	A27106-ND	2.05	1.80	36916
		5/16	.807 x 1.925	A27107-ND	2.11	1.86	321867
		3/8	.875 x 1.956	A27108-ND	1.82	1.60	36917
		3/8	.807 x 1.925	A27109-ND	2.11	1.86	321868
		7/16	.875 x 1.956	A27110-ND	3.44	3.03	36918
		1/2	.875 x 1.956	A27111-ND	2.11	1.86	36919
		1/2	1.265 x 2.678	A27112-ND	4.11	3.61	322291
		5/8	1.265 x 2.678	A27113-ND	4.16	3.66	320744
		3/4	1.265 x 2.678	A27114-ND	4.16	3.66	320748
	2/0	1/4	.946 X 2.000	A27115-ND	2.59	2.28	36921
		5/16	.926 X 1.930	A27116-ND	2.67	2.35	321870
		5/16	.946 X 2.000	A27117-ND	2.59	2.28	36922
		3/8	.926 X 1.930	A27118-ND	2.67	2.35	321871
		3/8	.946 X 2.000	A27119-ND	2.59	2.28	36923
		1/2	.926 X 1.930	A27120-ND	2.67	2.35	321873
		1/2	.946 X 2.000	A27121-ND	2.59	2.28	36925
		5/8	1.270 X 2.671	A27122-ND	5.91	5.20	322224
	3/0	5/8	1.270 X 2.699	A27129-ND	6.72	5.92	322222
2	3/0	5/16	1.020 X 2.112	A27123-ND	4.74	4.17	321874
		3/8	1.020 X 2.112	A27124-ND	3.04	2.68	321875
		3/8	1.082 X 2.143	A27125-ND	3.14	2.77	36927
		7/16	1.020 X 2.112	A27126-ND	4.74	4.17	321876
		1/2	1.082 X 2.143	A27127-ND	4.90	4.31	36929
		1/2	1.020 X 2.112	A27128-ND	4.74	4.17	321877
1	4/0	5/8	1.275 X 2.732	A27136-ND	9.28	8.17	322227
		3/4	1.275 X 2.732	A27137-ND	9.57	8.43	322228
2	4/0	5/16	1.150 X 2.537	A27130-ND	4.73	4.17	321271
		3/8	1.150 X 2.206	A27131-ND	3.24	2.86	36932
		3/8	1.087 X 2.178	A27132-ND	3.65	3.21	321878
		1/2	1.087 X 2.178	A27133-ND	5.69	5.01	321880
		1/2	1.150 X 2.206	A27134-ND	3.24	2.86	36934
		5/8	1.150 X 2.206	A27135-ND	5.22	4.59	36935
	250-300 MCM	3/8	1.435 X 2.602	A27138-ND	9.52	8.38	322252
		7/16	1.435 X 2.602	A27139-ND	9.52	8.38	322253
		1/2	1.435 X 2.602	A27140-ND	9.52	8.38	322254
	300-350 MCM	1/2	1.545 X 2.671	A27141-ND	9.68	8.52	322259
		1/2	1.545 X 3.422	A28760-ND	15.11	13.30	322764
	400 MCM	3/8	1.749 X 2.790	A27142-ND	7.84	6.90	322262
		1/2	1.749 X 2.790	A27143-ND	14.93	13.14	322264
	500-600 MCM	3/8	2.015 X 3.187	A27144-ND	23.64	20.81	322267
		1/2	2.015 X 3.187	A27145-ND	32.67	28.75	322269
		1/2	2.015 X 4.176	A27146-ND	38.40	33.80	322773

• Heavy Duty

Cut Tape and Tape & Reel Product

Fig.	AWG	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Cut Tape Pricing		Tape & Reel†		AMP Part No.
					500	1,000	Size	Pricing	
1	22-16	4	.250 X .621	A28055CT-ND	—	129.55	5,000	103.64/M	2-323096-2
		6	.218 X .449	A0915CT-ND	—	196.30	5,000	157.04/M	2-34105-2
		6	.281 X .574	A27006CT-ND	—	98.15	5,000	78.52/M	2-34107-2
		10	.312 X .621	A27012CT-ND	—	101.28	5,000	81.02/M	2-34112-2
		1/4	.469 X .856	A0918CT-ND	—	112.05	5,000	89.64/M	2-34113-2
	16-14	6	.250 X .480	A0921CT-ND	—	196.30	5,000	157.04/M	2-34120-1
		8	.343 X .636	A0922CT-ND	—	98.15	5,000	78.52/M	2-34122-1
		8	.312 X .590	A27025CT-ND	—	82.98	5,000	66.38/M	2-324955-1
		10	.343 X .723	A27155CT-ND	202.66	368.48	2,500	294.78/M	2-34567-1
		10	.343 X .636	A0923CT-ND	—	98.15	5,000	78.52/M	2-34123-1
	12-10	10	.375 X .765	A0928CT-ND	85.79	155.98	2,500	124.78/M	2-33457-2
		10	.500 X .865	A27043CT-ND	214.87	390.68	2,500	312.54/M	2-35771-1
		1/4	.531 X 1.004	A0929CT-ND	84.22	153.13	2,500	122.50/M	2-33458-3

† For Tape and Reel Part Number change CT-ND to TR-ND

Tools

A27223-ND	Crimp Tool for all Solistrand (except Flag Tongue Terminals)	**$178.50**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9813-ND	Die Set for Uninsulated Terminals, use with A9996	**$94.50**
A9812-ND	Crimp Tool, Uninsulated Terminals with Die Set	**$118.50**

Solistrand Terminals and Splices

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire. The barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area.

Temperature Rating: 170°C Max. **Material:** • Terminal Body: copper per ASTM B-152 • Plating: Tin per MIL-T-10727 UL Listed. CSA Certified. Military Approval.

Uninsulated Ring Tongue and Splices: Temperature Rating: 343°C **Material:** • Terminal and Splice Body: copper per QQ-C-576 • Plating: Nickel per QQ-N-290 • Metallic Sleeve: nickel/silver per QQ-C-585

Parallel Splices: Material: • Splice Body: copper per ASTMB-152

Fig. 1

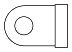


Fig. 2

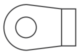


Fig. 3

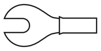


Fig. 4

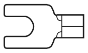


Fig. 5

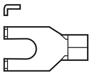


Fig. 6

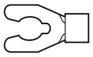


Fig. 7

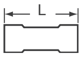


Fig. 8

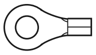


Fig. 9

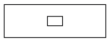


Fig. 10

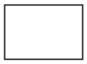
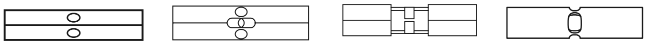


Fig. 11



A – Standard B – Sight Hole C – Strap D

Flag Ring Tongue Terminals

Fig.	AWG	Stud Size	Dim. - Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	16-14	8	.312 x .579	A28056-ND	.59	.52	325069
		10		A27177-ND	.52	.46	322819
	12-10	6	.375 X .702	A28057-ND	.71	.63	36269
		8		A27178-ND	.73	.65	36270
		10		A27179-ND	.52	.46	36271
		1/4		A28058-ND	.70	.62	36272
2	8	10	.500 X .791	A28059-ND	2.85	2.51	321051
		10	.500 X .918	A28060-ND	2.58	2.27	321441
		1/4	.609 X 1.130	A28061-ND	1.91	1.68	322727
1	6	10	.500 X .841	A27180-ND	2.13	1.88	323196
		1/4	.500 X .960	A27181-ND	3.77	3.32	321576
2		3/8	.625 X 1.200	A27182-ND	4.21	3.70	322204
1	4	10	.546 x 1.048	A27183-ND	2.49	2.19	321059
		1/4	.546 x 1.048	A27184-ND	2.49	2.19	321275
2		5/16	.685 x 1.278	A27185-ND	2.35	2.07	321060
2	2	10	.713 x 1.437	A27186-ND	2.77	2.44	321063
		1/4		A27187-ND	4.75	4.18	321201
		5/16		A27188-ND	2.38	2.09	321064

Slotted Ring Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
3	22-16	4	.182 x .425	A28614-ND	.20	.18	321288

Solistrand - Spade Terminals

Fig.	Stud Size	Dimensions - Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
22-16 AWG						
4	2	.182 x .504	A0932-ND	.19	.17	53555-1
	4	.218 x .451	A09000-ND	.22	.20	321463
	6	.297 x .530	A09001-ND[1]	.12	.11	36195
	6	.250 x .623	A0933-ND[2]	.12	.10	323127
	8	.375 x .685	A0934-ND	.42	.37	34117
	10	.375 x .685	A0935-ND	.12	.11	34118
5	2	.182 x .504	A0939-ND	.46	.40	324605
	6	.296 x .514	A0940-ND[2]	.46	.40	320749
	6	.250 x .514	A09006-ND[1]	.46	.40	323136
	8	.296 x .514	A0941-ND[1]	.46	.40	52730
	8	.416 x .607	A09007-ND[2]	.14	.13	323124
6	4	.203 x .576	A0943-ND	.15	.14	53175-1
	8	.244 x .637	A09005-ND	.54	.47	53831-1
16-14 AWG						
4	6	.297 x .530	A09002-ND	.12	.11	322996
	6	.244 x .623	A27163-ND	.80	.71	330827
	8	.385 x .685	A09003-ND	.30	.26	34128
	10	.385 x .764	A27164-ND	.16	.14	33219
	10	.385 x .685	A09004-ND	.42	.37	34129
5	6	.294 x .514	A09008-ND	.46	.40	320855
	8		A0942-ND	.14	.12	320856
	10		A09009-ND	.25	.22	320857
6	8	.375 x .637	A0946-ND	.15	.14	53124-1
12-10 AWG						
4	6	.282 x .631	A0936-ND	.23	.21	322451
	8	.406 x .772	A0937-ND	.20	.17	32995
	10	.406 x .772	A27165-ND	.17	.15	33479
	10	.375 x .772	A0938-ND	.83	.73	35495
6	6	.250 x .636	A0948-ND	.21	.19	53126-1
	8	.375 x .729	A0949-ND	.69	.61	53127-1
Flanged Spade Tongue						
12-10 AWG						
5	6	.296 X .694	A28062-ND	.24	.22	324578
	8	.416 X .694	A27175-ND	.29	.25	323143
	10	.416 X .694	A28063-ND	.24	.22	323144

[1] Short; [2] Long

Short Spring Spade Tongue

Fig.	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Tape & Reel† Size	Tape & Reel† Pricing
22-16 AWG										
6	6	.250 x .576	A0944-ND	.54	.47	A0944CT-ND	—	122.73	5,000	98.18/M
	8	.375 x .637	A27167-ND	11.59	10.20	—	—	—	—	—
16-14 AWG										
6	6	.250 x .576	A0945-ND	.15	.14	A0945CT-ND	—	122.73	5,000	98.18/M
	10	.406 X .685	A0947-ND	.15	.14	A0947CT-ND	—	122.73	5,000	98.18/M
12-10 AWG										
6	8	.312 X .729	A27170-ND	.21	.19	—	—	—	—	—
	10	.406 X .777	A0950-ND	.22	.19	A0950CT-ND	91.18	165.78	2,500	132.62/M
	10	.312 X .777	A28064-ND	.21	.19	A28064CT-ND	91.18	165.78	2,500	132.62/M

† For Tape and Reel Part Number change CT-ND to TR-ND

Parallel Splices

Fig.	AWG	Dimension - Inch Length	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
7	22-16	.301	A27193-ND	.09	.08	34130
	16-14	.301	A27194-ND	.09	.08	34137
	12-10	.343	A27195-ND	.12	.10	34138
	8	.375	A27196-ND	.22	.20	34318
	6	.437	A27197-ND	.38	.33	34319
	4	.531	A27198-ND	.48	.43	34320
	2	.640	A27199-ND	.77	.68	35187
	1/0	.734	A27200-ND	1.21	1.07	36946
	2/0	.734	A27201-ND	1.28	1.13	36948
	3/0	.749	A27202-ND	1.76	1.55	36909
	4/0	.765	A27203-ND	1.97	1.73	36951
	250-300	1.062	A27204-ND	5.13	4.52	322275
	300-350	1.124	A27205-ND	5.24	4.61	322276
	400	1.249	A27206-ND	6.92	6.09	322277
	500-600	1.421	A27566-ND	9.96	8.77	322278

Uninsulated Ring Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Insulation Support For	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
8	22-16	4	.218 X .603	.105 TO .140	A27403-ND	.80	.70	322363
		6	.281 X .728	.105 TO .140	A27404-ND	1.23	1.08	323199
		6	.282 X .574	Non-Insulation	A28053-ND	.28	.25	323219
		6	.218 x .449	Non-Insulation	A27405-ND	.30	.27	322797
		8	.281 x .574	Non-Insulation	A27406-ND	.30	.27	322798
		10	.281 X .728	.105 TO .140	A27407-ND	.80	.70	322366
		10	.281 x .574	Non-Insulation	A27408-ND	.30	.27	322799
	16-14	10	.343 X .800	.140 to .195	A27409-ND	1.29	1.14	322375
			.343 x .636	Non-Insulation	A27410-ND	.35	.31	322695
	12-10	8	.375 X .760	Non-Insulation	A27411-ND	.49	.43	323061
		10	.375 X 1.007	.150 to .250	A27412-ND	1.54	1.35	325154
		10	.375 X .760	Non-Insulation	A27413-ND	.49	.43	323062
		1/4	.531 X 1.004	Non-Insulation	A27414-ND	.63	.55	323063

Uninsulated Splices

Fig.	AWG	Length Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
9	22-16	.578	A27487-ND	.43	.38	323796
10		.301	A27488-ND	.32	.28	323030
9	16-14	.572	A27489-ND	.43	.38	323795
10		.301	A27490-ND	.32	.28	323794
9	12-10	.567	A28054-ND	.64	.56	323755
10		.333	A27491-ND	.39	.34	323754

Solistrand - Butt Splices

Fig.	AWG	Length Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
11C	26-22	.385	A09010-ND	.17	.15	321198
	24-20	.490	A09011-ND	.19	.17	324001
11A	22-16	.578	A0951-ND	.14	.07	31818
11B			A09012-ND	.24	.21	33067
11-A	16-14	.567	A0952-ND	.17	.15	31819
11-B		.567	A09014-ND	.27	.24	330368
11-C		.591	A27207-ND	.24	.21	322459
11-C		.591	A09013-ND	.30	.27	327025
11B	14-12	.690	A27209-ND	.30	.26	321280
11A	12-10	.565	A0953-ND	.20	.10	32151
11B		.567	A09015-ND	.80	.71	330369
11C		.765	A27210-ND	.37	.32	324893
11A	8	.827	A27211-ND	.46	.40	34321
11B			A27212-ND	.55	.49	36906
11A	6	1.015	A27213-ND	.80	.70	34322
11B			A27214-ND	1.14	1.00	36886
11A	4	1.140	A27215-ND	1.31	1.15	34323
11A	2	1.265	A27216-ND	2.33	2.05	35189
11B			A27217-ND	3.96	3.48	322246
11D	1/0	1.412	A27218-ND	3.55	3.13	36957
	2/0	1.437	A27219-ND	4.21	3.71	36958
	3/0	1.480	A27220-ND	5.01	4.41	36959
	4/0	1.484	A27221-ND	4.37	3.84	36960
	250-300	2.093	A27222-ND	10.04	8.84	322279

Tools

A27223-ND	Crimp Tool for all Solistrand (except Flag Tongue Terminals)	**$178.50**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9813-ND	Die Set for Uninsulated Terminals, use with A9996	**$94.50**
A9812-ND	Crimp Tool, Uninsulated Terminals with Die Set	**$118.50**

3M Terminals, Tools, Lugs and Connectors

Insulated

Fig. 1

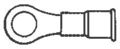


Fig. 2

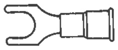


Fig. 3

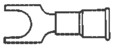


Fig. 4

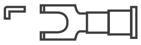


Fig. 5

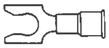


Fig. 6

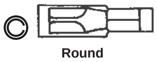


Fig. 7

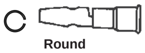


Fig. 8

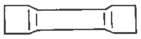


Fig. 9

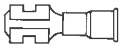


Fig. 10

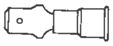


Fig. 11

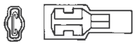


Fig. 12

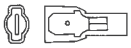
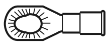


Fig. 13 — Multi-Stud



Uninsulated

Fig. 14

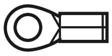


Fig. 15

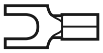


Fig. 16

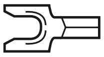


Fig. 17

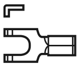


Fig. 18

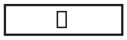


Fig. 19

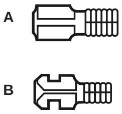


Fig. 20

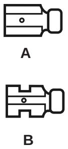
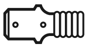


Fig. 21



Heat Shrink

Fig. 22

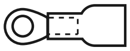


Fig. 23

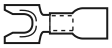


Fig. 24

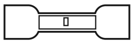


Fig. 25

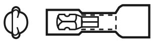
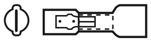


Fig. 26



Miscellaneous

Fig. 27 – Female T-Tap Connector

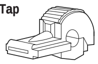


Fig. 28

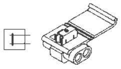


Fig. 29

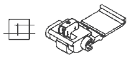


Fig. 30

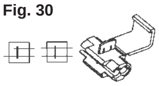


Fig. 31

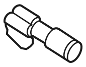


Fig. 32

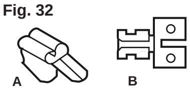


Fig. 33 – Closed End

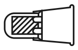


Fig. 34 – Electrical Spring Connector

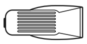


Fig. 35

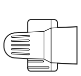


Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	50	100	500	3M Part No.
Insulated									
1	**26-24 Yellow**	#2	.145 (3.68)	920010-30-ND	1.07	.95	.79	.62	MNG24-2RK
		#4		920010-31-ND	1.07	.95	.79	.62	MNG24-4RK
		#6		920010-32-ND	1.07	.95	.79	.62	MNG24-6RK
		#8		920010-33-ND	1.07	.95	.79	.62	MNG24-8RK
		#10		920010-34-ND	1.07	.95	.79	.62	MNG24-10RK
11	**26-20 Yellow**	—	.145 (3.68)	920044-17-ND	.54	.49	.40	.32	MNU20-110DFIK
1	**22-18 Red**	#4	.145 (3.68)	920010-35-ND	.29	.26	.22	.17	MVU18-4R/SK
		#6		920010-01-ND	.29	.26	.22	.17	MVU18-6R/SK
		#8		920010-02-ND	.29	.26	.22	.17	MVU18-8R/LK
		#10		920010-03-ND	.29	.26	.22	.17	MVU18-10R/LK
		1/4		920010-04-ND	.34	.30	.25	.20	MVU18-14R/SK
1		5/16	.145 (3.68)	920010-36-ND	.43	.38	.32	.25	MVU18-516R/SK
1		3/8		920010-37-ND	.43	.38	.32	.25	MVU18-38RK
3		#4		920020-16-ND	.29	.26	.22	.17	MVU18-4FB/SK
3		#6		920022-01-ND	.29	.26	.22	.17	MVU18-6FB/SK
3		#8		920022-02-ND	.29	.26	.22	.17	MVU18-8FBK
3		#10	.145 (3.68)	920020-17-ND	.29	.26	.22	.17	MVU18-10FBK
4		#6		920022-14-ND	.34	.30	.25	.20	MVU18-6FFBK
4		#8		920022-15-ND	.34	.30	.25	.20	MVU18-8FFBK
4		#10		920022-16-ND	.34	.30	.25	.20	MVU18-10FFBK
5		#4		920024-01-ND	.31	.28	.23	.18	MVU18-4FLK
5		#6	.145 (3.68)	920024-02-ND	.31	.28	.23	.18	MVU18-6FLK
5		#8		920024-03-ND	.31	.28	.23	.18	MVU18-8FLK
5		#10		920024-10-ND	.31	.28	.23	.18	MVU18-10FLK
7		.156”		920050-01-ND	.31	.28	.23	.18	MVU18-156DMK
8		—		920030-01-ND	.31	.28	.23	.18	MVU18-BCK
9		.187”	.145 (3.68)	920040-01-ND	.31	.27	.23	.18	MVU18-187DFK
9		.250”		920040-02-ND	.31	.27	.23	.18	MVU18-250DFK
10		.187”		920042-01-ND	.30	.27	.22	.18	MVU18-187DMK
10		.250”		920042-02-ND	.28	.25	.21	.17	MVU18-250DMK
11		.187”		920044-01-ND	.44	.40	.33	.26	MNU18-187DFIK
11		.250”	.145 (3.68)	920044-02-ND	.44	.40	.33	.26	MNU18-250DFIK
11		.250”		920044-23-ND	.46	.41	.34	.27	FDI18-250C
12		.187”		920046-01-ND	.50	.44	.37	.29	MNU18-187DMIK
12		.250”		920046-02-ND	.50	.44	.37	.29	MNU18-250DMIK
13		6/8/10		920010-57-ND	.39	.35	.29	.23	MV18-610R
1	**16-14 Blue**	#4	.170 (4.32)	920010-38-ND	.29	.26	.22	.17	MVU14-4R/SK
		#8		920010-39-ND	.29	.26	.22	.17	MVU14-8RK
		#6		920010-05-ND	.29	.26	.22	.17	MVU14-6R/SK
		#8		920010-06-ND	.29	.26	.22	.17	MVU14-8R/SK
		#10		920010-07-ND	.29	.26	.22	.17	MVU14-10RK
1		1/4	.170 (4.32)	920010-08-ND	.34	.30	.25	.20	MVU14-14R/SK
1		5/16		920010-40-ND	.43	.38	.32	.25	MVU14-516R/SK
1		3/8		920010-41-ND	.43	.38	.32	.25	MVU14-38RK
2		#6		920020-01-ND	.29	.26	.22	.17	MVU14-6FK
2		#8		920020-02-ND	.29	.26	.22	.17	MVU14-8FK
3		#4	.170 (4.32)	920020-18-ND	.29	.26	.22	.17	MVU14-4FB/SK
3		#6		920022-03-ND	.29	.26	.22	.17	MVU14-6FB/SK
3		#8		920022-04-ND	.29	.26	.22	.17	MVU14-8FBK
3		#10		920020-19-ND	.29	.26	.22	.17	MVU14-10FBK
4		#6		920022-17-ND	.34	.30	.25	.20	MVU14-6FFBK
4		#8	.170 (4.32)	920022-18-ND	.34	.30	.25	.20	MVU14-8FFBK
4		#10		920022-19-ND	.34	.30	.25	.20	MVU14-10FFBK
5		#4		920024-11-ND	.31	.28	.23	.18	MVU14-4FLK
5		1/4		920024-12-ND	.38	.34	.28	.22	MVU14-14FLK
5		#6		920024-04-ND	.31	.28	.23	.18	MVU14-6FLK
5		#8	.170 (4.32)	920024-05-ND	.31	.28	.23	.18	MVU14-8FLK
5		#10		920024-06-ND	.31	.28	.23	.18	MVU14-10FLK
6		—		920048-02-ND	.49	.44	.36	.29	MNU14-156DFIK
7		—		920050-02-ND	.31	.28	.23	.18	MVU14-156DMK
8		—		920030-02-ND	.31	.28	.23	.18	MVU14-BCK
9		.187”	.170 (4.32)	920040-03-ND	.31	.27	.23	.18	MVU14-187DFK
9		.250”		920040-04-ND	.31	.27	.23	.18	MVU14-250DFK
10		.187”		920042-03-ND	.30	.27	.22	.18	MVU14-187DMK
10		.250”		920042-04-ND	.30	.27	.22	.18	MVU14-250DMK
11		.187”		920044-03-ND	.44	.40	.33	.26	MNU14-187DFIK
11		.250”	.170 (4.32)	920044-04-ND	.44	.40	.33	.26	MNU14-250DFIK
11		.250”		920044-22-ND	.46	.41	.34	.27	FDI14-250C
12		.187”		920046-03-ND	.50	.44	.37	.29	MNU14-187DMIK
12		.250”		920046-04-ND	.50	.44	.37	.29	MNU14-250DMIK
13		6/8/10		920010-58-ND	.39	.35	.29	.23	MV14-610R

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	50	100	500	3M Part No.
1	**12-10 Yellow**	#4	.250 (6.35)	920010-42-ND	.35	.32	.26	.21	MVU10-4R/SK
		#6		920010-43-ND	.35	.32	.26	.21	MVU10-6RK
		#8		920010-09-ND	.35	.32	.26	.21	MVU10-8RK
		#10		920010-10-ND	.35	.32	.26	.21	MVU10-10RK
		1/4		920010-11-ND	.47	.42	.35	.27	MVU10-14R/SK
1		5/16	.250 (6.35)	920010-44-ND	.47	.42	.35	.27	MVU10-516R/SK
1		3/8		920010-12-ND	.47	.42	.35	.27	MVU10-38R/SK
2		#6		920020-03-ND	.35	.32	.26	.21	MVU10-6FK
2		#8		920020-04-ND	.35	.32	.26	.21	MVU10-8FK
2		#10		920020-05-ND	.35	.32	.26	.21	MVU10-10FK
4		#6	.250 (6.35)	920022-20-ND	.41	.37	.30	.24	MVU10-6FFBK
4		#8		920022-21-ND	.41	.37	.30	.24	MVU10-8FFBK
4		#10		920022-22-ND	.41	.37	.30	.24	MVU10-10FFBK
5		#6		920024-07-ND	.45	.40	.33	.26	MVU10-6FLK
5		#8		920024-08-ND	.45	.40	.33	.26	MVU10-8FLK
5		#10	.250 (6.35)	920024-09-ND	.45	.40	.33	.26	MVU10-10FLK
5		1/4		920024-13-ND	.52	.46	.38	.30	MVU10-14FLK
8		—		920030-03-ND	.38	.34	.28	.22	MVU10BCK
9		.250”		920040-06-ND	.56	.51	.42	.33	MVI10-250DFK
10		.250”		920042-05-ND	.37	.33	.28	.22	MVU10-250DMK
11		.250”	.250 (6.35)	920044-21-ND	.62	.55	.46	.36	MNI10-250DFIK
12		.250”		920046-05-ND	.67	.60	.50	.39	MNU10-250DMIK
13		6/8/10		920010-59-ND	.51	.46	.38	.30	MV10-610R
Uninsulated									
14	**22-18**	#4	—	920010-13-ND	.15	.14	.11	.09	MU18-4R/SK
		#6	—	920010-14-ND	.15	.14	.11	.09	MU18-6R/SK
		#8	—	920010-15-ND	.15	.14	.11	.09	MU18-8R/LK
		#10	—	920010-16-ND	.14	.13	.11	.09	MU18-10R/LK
		1/4	—	920010-17-ND	.24	.21	.18	.14	MU18-14R/SK
14		3/8	—	920010-18-ND	.26	.23	.19	.15	MU18-38RK
15		#4	—	920020-06-ND	.15	.14	.11	.09	MU18-4FB/SK
15		#6	—	920020-07-ND	.15	.14	.11	.09	MU18-6FB/SK
15		#8	—	920020-08-ND	.15	.14	.11	.09	MU18-8FBK
15		#10	—	920020-09-ND	.15	.14	.11	.09	MU18-10FBK
16		#4	—	920024-14-ND	.16	.14	.12	.09	MU18-4FLK
16		#6	—	920024-15-ND	.16	.14	.12	.09	MU18-6FLK
16		#8	—	920024-16-ND	.16	.14	.12	.09	MU18-8FLK
16		#10	—	920024-17-ND	.16	.14	.12	.09	MU18-10FLK
17		#6	—	920022-05-ND	.16	.14	.12	.09	MU18-6FFBK
17		#10	—	920022-07-ND	.15	.14	.11	.09	MU18-10FFBK
18		—	—	920030-07-ND	.24	.22	.18	.14	M18BCK
14	**16-14**	#4	—	920010-19-ND	.15	.14	.11	.09	MU14-4R/SK
		#6	—	920010-20-ND	.15	.14	.11	.09	MU14-6R/SK
		#8	—	920010-21-ND	.15	.14	.11	.09	MU14-8R/LK
		#10	—	920010-22-ND	.15	.14	.11	.09	MU14-10RK
		1/4	—	920010-23-ND	.24	.21	.18	.14	MU14-14R/SK
15		#4	—	920020-10-ND	.15	.14	.11	.09	MU14-4FB/SK
15		#8	—	920020-11-ND	.15	.14	.11	.09	MU14-8FBK
15		#10	—	920020-12-ND	.15	.14	.11	.09	MU14-10FBK
16		#4	—	920024-18-ND	.16	.14	.12	.09	MU14-4FLK
16		#6	—	920024-19-ND	.16	.14	.12	.09	MU14-6FLK
16		#8	—	920024-20-ND	.16	.14	.12	.09	MU14-8FLK
16		#10	—	920024-21-ND	.16	.14	.12	.09	MU14-10FLK
16		1/4	—	920024-22-ND	.26	.23	.19	.15	MU14-14FLK
17		#6	—	920022-08-ND	.16	.14	.12	.09	MU14-6FFBK
17		#8	—	920022-09-ND	.16	.15	.12	.10	MU14-8FFBK
17		#10	—	920022-10-ND	.16	.15	.12	.10	MU14-10FFBK
18		—	—	920030-08-ND	.24	.22	.18	.14	M14BCK
14	**12-10**	#4	—	920010-24-ND	.23	.21	.17	.13	MU10-4R/SK
		#6	—	920010-25-ND	.23	.21	.17	.13	MU10-6RK
		#8	—	920010-26-ND	.23	.21	.17	.13	MU10-8RK
		#10	—	920010-27-ND	.23	.21	.17	.13	MU10-10RK
		1/4	—	920010-28-ND	.27	.24	.20	.16	MU10-14R/SK
14		5/16	—	920010-29-ND	.27	.24	.20	.16	MU10-516R/SK
15		#6	—	920020-13-ND	.23	.21	.17	.13	MU10-6FBK
15		#8	—	920020-14-ND	.23	.21	.17	.13	MU10-8FBK
15		#10	—	920020-15-ND	.23	.21	.17	.13	MU10-10FBK
16		#6	—	920024-23-ND	.22	.20	.17	.13	MU10-6FLK
16		#8	—	920024-24-ND	.22	.20	.17	.13	MU10-8FLK
16		#10	—	920024-25-ND	.22	.20	.17	.13	MU10-10FLK
16		1/4	—	920024-26-ND	.38	.34	.28	.22	MU10-14FLK
17		#6	—	920022-11-ND	.23	.20	.17	.13	MU10-6FFBK

(Continued)

3M Terminals, Tools, Lugs and Connectors *(Cont.)*

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	50	100	500	3M Part No.
17	**12-10**	#8	—	920022-12-ND	.23	.20	.17	.13	MU10-8FFBK
17		#10	—	920022-13-ND	.23	.20	.17	.13	MU10-10FFBK
18		—	—	920030-09-ND	.36	.32	.27	.21	M10BCK
19A	**26-20**	.110"	—	920044-06-ND	.16	.15	.12	.10	MU20-110/32DFK
19B	**22-18**	.187"	—	920044-07-ND	.16	.15	.12	.10	MU18-187DFK
19A		.250"	—	920044-08-ND	.16	.15	.12	.10	MU18-250DFK
19A	**16-14**	.110"	—	920044-09-ND	.16	.15	.12	.10	MU14-110DFK
19B		.187"	—	920044-10-ND	.16	.15	.12	.10	MU14-187DFK
19A		.250"	—	920044-11-ND	.16	.15	.12	.10	MU14-250DFK
20A	**22-18**	.187"	—	920044-12-ND	.21	.19	.15	.12	MU18-187DF/FLAGK
20B		.250"	—	920044-13-ND	.21	.19	.15	.12	MU18-250DF/FLAGK
20A	**16-14**	.187"	—	920044-14-ND	.21	.19	.15	.12	MU14-187DF/FLAGK
20B		.250"	—	920044-15-ND	.21	.19	.15	.12	MU14-250DF/FLAGK
20A	**12-10**	.250"	—	920044-16-ND	.39	.35	.29	.23	MU10-250DF/FLAGK
21	**22-18**	.187"	—	920042-06-ND	.16	.14	.12	.09	MU18-187DMK
		.250"	—	920042-07-ND	.15	.14	.11	.09	MU18-250DMK
21	**16-14**	.187"	—	920042-08-ND	.16	.14	.12	.09	MU14-187DMK
		.250"	—	920042-09-ND	.16	.14	.12	.09	MU14-250DMK
21	**12-10**	.250"	—	920042-10-ND	.21	.19	.16	.12	MU10-250DMK
Multi-Stack Adapters									
31	**22-18**	.250"	—	920084-01-ND	.51	.45	.37	.30	MVU18-250DMFK
	16-14	.250"	—	920084-02-ND	.51	.45	.37	.30	MVU14-250DMFK
32A	—	.250"	—	920082-01-ND	.40	.36	.30	.23	MA250DMFMK
32B		.250"	—	920082-02-ND	.27	.24	.20	.16	MA250DMMFK

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	100	3M Part No.
Heat Shrink Insulated									
22	**22-18 Red**	#6	.145 (3.68)	920010-45-ND	.68	.61	.51	.40	MH18-6R/LK
22		#8		920010-46-ND	.68	.61	.51	.40	MH18-8R/LK
22		#10		920010-47-ND	.68	.61	.51	.40	MH18-10R/LK
23		#6		920024-27-ND	.68	.61	.51	.40	MH18-6FLK
23		#8		920024-28-ND	.68	.61	.51	.40	MH18-8FLK
23		#10	.145 (3.68)	920024-29-ND	.68	.61	.51	.40	MH18-10FLK
24		—		920030-10-ND	.71	.64	.53	.41	MH18BCK
25		—		920044-18-ND	.90	.81	.67	.53	MNHU18-250DFIK
26		—		920042-11-ND	.90	.81	.67	.53	MNHU18-250DMIK
22	**16-14 Blue**	#6	.170 (4.32)	920010-48-ND	.68	.61	.51	.40	MH14-6R/LK
		#8		920010-49-ND	.68	.61	.51	.40	MH14-8R/LK
		#10		920010-50-ND	.68	.61	.51	.40	MH14-10R/LK
		1/4		920010-51-ND	.74	.67	.55	.43	MH14-14R/SK
22	**16-14 Blue**	5/16	.170 (4.32)	920010-52-ND	.74	.67	.55	.43	MH14-516R/SK
		3/8		920010-53-ND	.74	.67	.55	.43	MH14-38RK
23	**16-14 Blue**	#6	.170 (4.32)	920024-30-ND	.68	.61	.51	.40	MH14-6FLK
		#8		920024-31-ND	.68	.61	.51	.40	MH14-8FLK
		#10		920024-32-ND	.68	.61	.51	.40	MH14-10FLK
		1/4		920024-33-ND	.74	.67	.55	.43	MH14-14FLK
24		—	.170 (4.32)	920030-11-ND	.71	.64	.53	.41	MH14BCK
25		—		920044-19-ND	.90	.81	.67	.53	MNHU14-250DFIK
26		—		920042-12-ND	.90	.81	.67	.53	MNHU14-250DMIK
22	**12-10 Yellow**	#10	.250 (6.35)	920010-54-ND	.83	.75	.62	.49	MH10-10RK
22		1/4		920010-55-ND	.86	.77	.64	.50	MH10-14RK
22		3/8		920010-56-ND	.86	.77	.64	.50	MH10-38RK
23		#8		920024-34-ND	.82	.73	.61	.48	MH10-8FLK
23		#10		920024-35-ND	.82	.73	.61	.48	MH10-10FLK
23		1/4	.250 (6.35)	920024-36-ND	.86	.78	.64	.50	MH10-14FLK
24		—		920030-12-ND	.91	.82	.68	.53	MH10BCK
25		—		920044-20-ND	1.19	1.07	.88	.69	MNHU10-250DFIK
26		—		920042-13-ND	1.19	1.07	.88	.69	MNHU10-250DMIK
27	**22-18**	—	.150 (3.81)	920074-01-ND	.35	.31	.26	.21	951K
	18-14	—		920074-02-ND	.35	.31	.26	.21	952K
	12	—		920074-03-ND	.37	.34	.28	.22	953K
28	**22-16 Red**	—	.120 (3.05)	920074-06-ND	.52	.47	.39	.30	557 (BOXED)
29		—		920074-07-ND	.54	.49	.40	.32	558 (BOXED)
30	**18-14 Blue**	—	.145 (3.68)	920074-08-ND	.33	.30	.25	.19	560 (BOXED)

923000-I-ND 3M Insulated Terminal Kit — 650 assorted terminals (14 sizes),
200 cable ties (100 each, 2 sizes), one wire marker dispenser,
one crimping tool, one reusable metal box, one reordering information card........**$109.24**

Fig.	AWG	Description	Digi-Key Part No.	Price Each 10	50	100	500	3M Part No.
Scotchlok Connectors								
33	**22-14**	Closed End Electrical Connector	920030-13-ND	.22	.20	.17	.13	MN14CEC/STK
33	**18-10**		920030-14-ND	.28	.25	.21	.16	MN10CEC/STK (Bulk)
34	**8-14**		920090-01-ND	.69	.62	.51	.40	GK (Gray)
34	**10-18**		920090-02-ND	.31	.28	.23	.18	RK (Red)
35	**8-12**	Spring Connector	920090-04-ND	.86	.77	.64	.50	B/G (Box)
	12-22		920090-05-ND	.21	.19	.15	.12	O/B (Box)
	8-18		920090-06-ND	.32	.29	.24	.19	R/Y (Box)
34	**12-22**	Nylon Spring Connector	920074-04-ND	.24	.21	.18	.14	312 (Yellow)
	10-18		920074-05-ND	.31	.28	.23	.18	512 (Red)

Terminals

Fig. 1

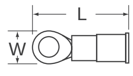


Fig. 2

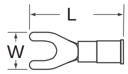


Fig. 3

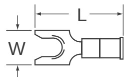


Fig. 4

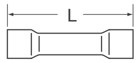


Fig. 5

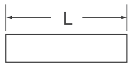


Fig. 6

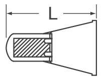


Fig. 7

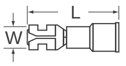


Fig. 8

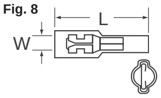


Fig. 9

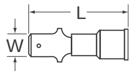


Fig. 10

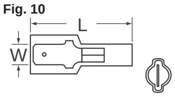


Fig. 11

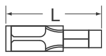


Fig. 12

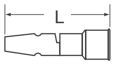


Fig. 13

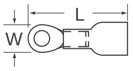


Fig. 14

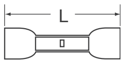


Fig.	AWG	Stud Size	Length	Width	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
Vinyl Insulated Butted Seam Ring Tongue Terminals										
1	**22-18 Red**	#6	0.80	0.25	94725-01-ND	1.33	5.97	9.84	38.64	94725
		#8	0.90	0.33	94727-01-ND	1.33	5.97	9.84	38.64	94727
		#10	0.90	0.33	94717-01-ND	1.33	5.97	9.84	38.64	94717
		1/4	1.08	0.47	94719-01-ND	1.58	7.08	11.66	45.79	94719
		5/16	1.08	0.47	94723-01-ND	1.88	8.42	13.86	54.45	94723
		3/8	1.13	0.56	94721-01-ND	1.88	8.42	13.86	54.45	94721
	16-14 Blue	#6	0.90	0.33	94736-01-ND	1.33	5.97	9.84	38.64	94736
		#8	0.90	0.33	94739-01-ND	1.33	5.97	9.84	38.64	94739
		#10	0.90	0.33	94729-01-ND	1.33	5.97	9.84	38.64	94729
		1/4	1.08	0.47	94731-01-ND	1.58	7.08	11.66	45.79	94731
		5/16	1.08	0.47	94735-01-ND	1.88	8.42	13.86	54.45	94735
		3/8	1.13	0.56	94733-01-ND	1.88	8.42	13.86	54.45	94733
	12-10 Yellow	#6	0.98	0.28	94751-01-ND	1.62	7.27	11.97	47.03	94751
		#8	1.03	0.38	94753-01-ND	1.62	7.27	11.97	47.03	94753
		#10	1.03	0.38	94741-01-ND	1.62	7.27	11.97	47.03	94741
		1/4	1.26	0.53	94743-01-ND	1.88	8.42	13.86	54.45	94743
		5/16	1.26	0.53	94749-01-ND	1.98	8.84	14.56	57.20	94749
		3/8	1.29	0.59	94745-01-ND	1.98	8.84	14.56	57.20	94745
		1/2	1.50	0.75	94747-01-ND	2.85	12.75	21.00	82.50	94747
Nylon Insulated with Insulation Grip Ring Tongue Terminals										
1	**22-18 Red**	#6	0.79	0.25	94724-01-ND	2.02	9.05	14.91	58.58	94724
		#8	0.89	0.33	94726-01-ND	2.02	9.05	14.91	58.58	94726
		#10	0.89	0.33	94716-01-ND	2.02	9.05	14.91	58.58	94716
		1/4	1.07	0.47	94718-01-ND	2.52	11.26	18.55	72.88	94718
		5/16	1.07	0.47	94722-01-ND	2.52	11.26	18.55	72.88	94722
		3/8	1.12	0.56	94720-01-ND	2.82	12.60	20.76	81.54	94720
	16-14 Blue	#6	0.81	0.25	94737-01-ND	2.02	9.05	14.91	58.58	94737
		#8	0.91	0.33	94738-01-ND	2.02	9.05	14.91	58.58	94738
		#10	0.89	0.33	94728-01-ND	2.02	9.05	14.91	58.58	94728
		1/4	1.09	0.47	94730-01-ND	2.52	11.26	18.55	72.88	94730
		5/16	1.09	0.47	94734-01-ND	2.52	11.26	18.55	72.88	94734
		3/8	1.14	0.56	94732-01-ND	2.82	12.60	20.76	81.54	94732
	12-10 Yellow	#6	0.98	0.28	94750-01-ND	2.52	11.26	18.55	72.88	94750
		#8	1.03	0.38	94752-01-ND	2.52	11.26	18.55	72.88	94752
		#10	1.03	0.38	94740-01-ND	2.52	11.26	18.55	72.88	94740
		1/4	1.26	0.53	94742-01-ND	2.91	13.01	21.42	84.15	94742
		5/16	1.26	0.53	94748-01-ND	2.91	13.01	21.42	84.15	94748
		3/8	1.29	0.59	94744-01-ND	2.91	13.01	21.42	84.15	94744
		1/2	1.50	0.75	94746-01-ND	3.64	16.28	26.81	105.33	94746
Nylon Insulated Brazed Seam Ring Tongue Terminals										
1	**8 Red**	1/4	1.26	0.47	94754-01-ND	6.54	29.24	48.16	189.20	94754
		5/16	1.38	0.59	94757-01-ND	6.54	29.24	48.16	189.20	94757
		3/8	1.38	0.59	94755-01-ND	6.54	29.24	48.16	189.20	94755
		1/2	1.72	0.81	94756-01-ND	7.66	34.26	56.42	221.65	94756
	6 Blue	1/4	1.50	0.47	94758-01-ND	7.28	32.56	53.62	210.65	94758
		5/16	1.58	0.63	94761-01-ND	7.28	32.56	53.62	210.65	94761
		3/8	1.58	0.63	94759-01-ND	7.28	32.56	53.62	210.65	94759
		1/2	1.78	0.81	94760-01-ND	8.15	36.47	60.06	235.95	94760
	4 Yellow	1/4	1.74	0.68	94762-01-ND	9.50	42.50	70.00	275.00	94762
		5/16			94765-01-ND	9.50	42.50	70.00	275.00	94765
		3/8			94763-01-ND	9.50	42.50	70.00	275.00	94763
		1/2			94764-01-ND	9.50	42.50	70.00	275.00	94764
Vinyl Insulated Butted Seam Fork Terminals										
2	**22-18 Red**	#6	0.90	0.34	94769-01-ND	1.28	5.74	9.45	37.13	94769
		#8			94771-01-ND	1.28	5.74	9.45	37.13	94771
		#10			94767-01-ND	1.28	5.74	9.45	37.13	94767
	16-14 Blue	#6	0.90	0.34	94775-01-ND	1.28	5.74	9.45	37.13	94775
		#8			94777-01-ND	1.28	5.74	9.45	37.13	94777
		#10			94773-01-ND	1.28	5.74	9.45	37.13	94773
	12-10 Yellow	#6	1.03	0.38	94781-01-ND	1.58	7.06	11.62	45.65	94781
		#8			94783-01-ND	1.58	7.06	11.62	45.65	94783
		#10			94779-01-ND	1.58	7.06	11.62	45.65	94779
Nylon Insulated with Insulation Grip Fork Terminals										
2	**22-18 Red**	#6	0.89	0.34	94768-01-ND	1.98	8.84	14.56	57.20	94768
		#8			94770-01-ND	1.98	8.84	14.56	57.20	94770
		#10			94766-01-ND	1.98	8.84	14.56	57.20	94766
	16-14 Blue	#6	0.91	0.34	94774-01-ND	1.98	8.84	14.56	57.20	94774
		#8			94776-01-ND	1.98	8.84	14.56	57.20	94776
		#10			94772-01-ND	1.98	8.84	14.56	57.20	94772
	12-10 Yellow	#6	1.03	0.38	94780-01-ND	2.55	11.39	18.76	73.70	94780
		#8			94782-01-ND	2.55	11.39	18.76	73.70	94782
		#10			94778-01-ND	2.55	11.39	18.76	73.70	94778
Vinyl Insulated Butted Seam Locking Fork Terminals										
3	**22-18 Red**	#6	0.88	0.25	94865-01-ND	1.39	6.21	10.22	40.15	94865
		#8		0.30	94867-01-ND	1.33	5.95	9.80	38.50	94867
		#10		0.32	94863-01-ND	1.39	6.21	10.22	40.15	94863

(Continued)

3M Terminals *(Cont.)*

Fig.	AWG	Stud Size	Length	Width	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
3	**16-14 Blue**	#6	0.88	0.25	94873-01-ND	1.39	6.21	10.22	40.15	94873
		#8	0.88	0.30	94875-01-ND	1.39	6.21	10.22	40.15	94875
		#10	0.88	0.32	94869-01-ND	1.39	6.21	10.22	40.15	94869
		1/4	1.10	0.43	94871-01-ND	1.68	7.52	12.39	48.68	94871
	12-10 Yellow	#6	1.03	0.28	94881-01-ND	2.02	9.05	14.91	58.58	94881
		#8	1.03	0.32	94883-01-ND	2.02	9.05	14.91	58.58	94883
		#10	1.03	0.32	94877-01-ND	2.02	9.05	14.91	58.58	94877
		1/4	1.24	0.43	94879-01-ND	2.33	10.41	17.15	67.38	94879
Nylon Insulated with Insulation Grip Locking Fork Terminals										
3	**22-18 Red**	#6	0.87	0.25	94864-01-ND	2.13	9.52	15.68	61.60	94864
		#8		0.30	94866-01-ND	2.13	9.52	15.68	61.60	94866
		#10		0.32	94862-01-ND	2.13	9.52	15.68	61.60	94862
	16-14 Blue	#6	0.89	0.25	94872-01-ND	2.13	9.52	15.68	61.60	94872
		#8	0.89	0.30	94874-01-ND	2.13	9.52	15.68	61.60	94874
		#10	0.89	0.32	94868-01-ND	2.13	9.52	15.68	61.60	94868
		1/4	1.09	0.43	94870-01-ND	2.52	11.26	18.55	72.88	94870
	12-10 Yellow	#6	1.03	0.28	94880-01-ND	2.92	13.05	21.49	84.43	94880
		#8	1.03	0.32	94882-01-ND	2.92	13.05	21.49	84.43	94882
		#10	1.03	0.32	94876-01-ND	2.92	13.05	21.49	84.43	94876
		1/4	1.24	0.43	94878-01-ND	3.32	14.83	24.43	95.98	94878
Vinyl Insulated Butted Seam Butt Connectors										
4	**22-18 Red**	—	1.02	—	94785-01-ND	1.39	6.21	10.22	40.15	94785
	16-14 Blue	—	1.02	—	94788-01-ND	1.39	6.21	10.22	40.15	94788
	12-10 Yellow	—	1.05	—	94791-01-ND	1.74	7.78	12.81	50.33	94791
Vinyl Insulated Brazed Seam Butt Connectors										
4	**8 Red**	—	1.43	—	94793-01-ND	6.33	28.31	46.62	183.15	94793
	6 Blue	—	1.69	—	94794-01-ND	10.39	46.50	76.58	300.85	94794
	4 Yellow	—	2.12	—	94795-01-ND	20.62	92.23	151.90	596.75	94795
Nylon Insulated with Insulation Grip Butt Connectors										
4	**22-18 Red**	—	1.01	—	94784-01-ND	4.00	17.91	29.51	115.91	94784
	16-14 Blue	—		—	94787-01-ND	4.00	17.91	29.51	115.91	94787
Nylon Insulated Seamless Butt Connectors										
5	**22-18 Red**	—	1.02	—	94786-01-ND	1.98	8.84	14.56	57.20	94786
	16-14 Blue	—		—	94789-01-ND	1.98	8.84	14.56	57.20	94789
	12-10 Yellow	—		—	94792-01-ND	2.52	11.26	18.55	72.88	94792
Nylon Insulated Closed End Connectors										
6	**22-14**	—	0.76	—	94813-01-ND	1.43	6.42	10.57	41.53	94813
	18-10	—	0.85	—	94796-01-ND	1.43	6.42	10.57	41.53	94796
Vinyl Insulated Butted Seam Female Disconnects										
7	**22-18 Red**	—	0.78	0.187	94800-01-ND	1.39	6.21	10.22	40.15	94800
		—	0.87	0.250	94804-01-ND	1.39	6.21	10.22	40.15	94804
	16-14 Blue	—	0.78	0.187	94817-01-ND	1.39	6.21	10.22	40.15	94817
		—	0.87	0.250	94821-01-ND	1.39	6.21	10.22	40.15	94821
	12-10 Yellow	—	0.96	0.250	94833-01-ND	1.53	6.84	11.27	44.28	94833
Nylon Insulated with Insulation Grip Female Disconnects										
7	**22-18 Red**	—	0.77	0.187	94797-01-ND	2.09	9.33	15.37	60.36	94797
		—	0.86	0.250	94801-01-ND	2.09	9.33	15.37	60.36	94801
	16-14 Blue	—	0.77	0.187	94814-01-ND	2.09	9.33	15.37	60.36	94814
		—	0.86	0.250	94818-01-ND	2.09	9.33	15.37	60.36	94818
	12-10 Yellow	—	0.96	0.250	94830-01-ND	2.28	10.20	16.80	66.00	94830
Fully Nylon Insulated Butted Seam Female Disconnects										
8	**22-18 Red**	—	0.81	0.187	94799-01-ND	2.09	9.33	15.37	60.36	94799
		—	0.91	0.250	94803-01-ND	2.09	9.33	15.37	60.36	94803
	16-14 Blue	—	0.81	0.187	94816-01-ND	2.09	9.33	15.37	60.36	94816
		—	0.91	0.250	94820-01-ND	2.09	9.33	15.37	60.36	94820
	12-10 Yellow	—	0.99	0.250	94832-01-ND	2.57	11.48	18.90	74.25	94832

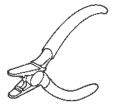
Fig.	AWG	Stud Size	Length	Width	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
Vinyl Insulated Butted Seam Male Disconnects										
9	**22-18 Red**	—	0.85	0.187	94808-01-ND	1.39	6.21	10.22	40.15	94808
		—	0.93	0.250	94812-01-ND	1.39	6.21	10.22	40.15	94812
	16-14 Blue	—	0.85	0.187	94825-01-ND	1.39	6.21	10.22	40.15	94825
		—	0.93	0.250	94829-01-ND	1.39	6.21	10.22	40.15	94829
	12-10 Yellow	—	1.05	0.250	94837-01-ND	1.53	6.84	11.27	44.28	94837
Nylon Insulated with Insulation Grip Male Disconnects										
9	**22-18 Red**	—	0.84	0.187	94805-01-ND	2.09	9.33	15.37	60.36	94805
		—	0.92	0.250	94809-01-ND	2.09	9.33	15.37	60.36	94809
	16-14 Blue	—	0.86	0.187	94822-01-ND	2.09	9.33	15.37	60.36	94822
		—	0.94	0.250	94826-01-ND	2.09	9.33	15.37	60.36	94826
	12-10 Yellow	—	1.05	0.250	94834-01-ND	2.28	10.20	16.80	66.00	94834
Fully Nylon Insulated Butted Seam Male Disconnects										
10	**22-18 Red**	—	0.87	0.187	94807-01-ND	2.09	9.33	15.37	60.36	94807
		—	0.98	0.250	94811-01-ND	2.09	9.33	15.37	60.36	94811
	16-14 Blue	—	0.87	0.187	94824-01-ND	2.09	9.33	15.37	60.36	94824
		—	0.98	0.250	94828-01-ND	2.09	9.33	15.37	60.36	94828
	12-10 Yellow	—	1.05	0.250	94836-01-ND	2.57	11.48	18.90	74.25	94836
Fully Nylon Insulated with Insulation Grip Male Disconnects										
10	**22-18 Red**	—	0.87	0.187	94806-01-ND	2.62	11.73	19.32	75.90	94806
		—	0.95	0.250	94810-01-ND	2.62	11.73	19.32	75.90	94810
	16-14 Blue	—	0.87	0.187	94823-01-ND	2.62	11.73	19.32	75.90	94823
		—	0.95	0.250	94827-01-ND	2.62	11.73	19.32	75.90	94827
	12-10 Yellow	—	1.05	0.250	94835-01-ND	3.22	14.41	23.73	93.23	94835
Nylon Insulated Butted Seam Bullet Style Female Disconnects										
11	**16-14 Blue**	—	1.02	—	94842-01-ND	2.22	9.95	16.38	64.35	94842
		—		—	94843-01-ND	2.32	10.39	17.12	67.24	94843
Nylon Insulated with Insulation Grip Bullet Style Female Disconnects										
11	**22-18 Red**	—	1.02	—	94838-01-ND	2.22	9.95	16.38	64.35	94838
		—		—	94839-01-ND	2.32	10.39	17.12	67.24	94839
Nylon Insulated with insulation Grip Bullet Style Male Disconnects										
12	**22-18 Red**	—	0.85	—	94840-01-ND	2.13	9.52	15.68	61.60	94840
		—	0.89	—	94841-01-ND	2.27	10.16	16.73	65.73	94841
	16-14 Blue	—	0.87	—	94844-01-ND	2.13	9.52	15.68	61.60	94844
		—	0.91	—	94845-01-ND	2.27	10.16	16.73	65.73	94845
Heat Shrink Brazed Seam Ring Tongue Terminals										
13	**22-18 Red**	#6	1.0	0.31	94859-01-ND	7.35	32.90	54.18	212.85	94859
		#8			94860-01-ND	7.35	32.90	54.18	212.85	94860
		#10			94858-01-ND	7.35	32.90	54.18	212.85	94858
	16-14 Blue	#6	1.0	0.31	94855-01-ND	7.35	32.90	54.18	212.85	94855
		#8	1.0	0.31	94856-01-ND	7.35	32.90	54.18	212.85	94856
		#10	1.0	0.31	94851-01-ND	7.35	32.90	54.18	212.85	94851
		1/4	1.1	0.47	94852-01-ND	8.00	35.79	58.94	231.55	94852
		5/16	1.1	0.47	94854-01-ND	8.00	35.79	58.94	231.55	94854
		3/8	1.1	0.56	94853-01-ND	8.00	35.79	58.94	231.55	94853
	12-10 Yellow	#8	1.1	0.38	94849-01-ND	8.95	40.04	65.94	259.05	94849
		#10	1.1	0.38	94846-01-ND	8.95	40.04	65.94	259.05	94846
		1/4	1.2	0.59	94847-01-ND	9.27	41.48	68.32	268.40	94847
		3/8	1.2	0.59	94848-01-ND	9.27	41.48	68.32	268.40	94848
Heat Shrink Seamless Butt Connectors										
14	**22-18 Red**	—	1.2	—	94861-01-ND	7.49	33.49	55.16	216.70	94861
	16-14 Blue	—	1.3	—	94857-01-ND	7.49	33.49	55.16	216.70	94857
	12-10 Yellow	—	1.5	—	94850-01-ND	9.65	43.18	71.12	279.40	94850

3M Scotchlok™ Discrete Connectors and Tools

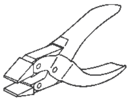
3M Insulated Terminal Kit — 650 assorted terminals (14 sizes), 200 cable ties (100 each, 2 sizes), one wire marker dispenser, one crimping tool, one reusable metal box, one reordering information card.

923000-I-ND..**$109.24**

E-9Y-ND



E-9E-ND



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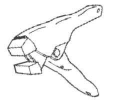

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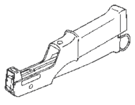


Fig. 1

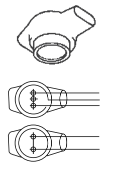


Fig. 2

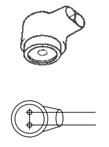


Fig. 3

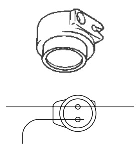


Fig. 4

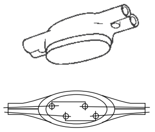


Fig.	Color	Max. Insul. O.D. (mm)	Cable Type PIC-Unfilled AWG	PIC-Filled AWG	Pulp or Paper AWG	How Pkg.	Digi-Key Part No.	Price Each 1	10	100	E-9Y-ND $33.25	E-9E-ND $30.41	E-9BM-ND $77.55	E-9C-ND $148.46
1	Red	1.67	19-26	22-26*	19-26	Loose	UR20074-ND	.34	.26	.19	√ (2 Wire)	√ (3 Wire)	—	—
	Grey	2.08 (out.)	19-24	19-24	19-24	Loose	UAL27827-ND	.76	.58	.42	√ (2 Wire)	√ (3 Wire)	√	√
	Grey	1.93 (cntr.)	17-20	19-24	19-24	Cartridge	UAL27828-ND	—	.65	.47	—	—	—	√
2	Yellow	1.52	22-26	22-26	22-26	Loose	UY14911-ND	.30	.24	.16	√	√	√	√
3	Green	1.67	19-26	22-26	19-26	Loose	UG20082-ND	.46	.35	.26	√	√	√	—
4	Red	3.18	19-24	19-24	19-24	Loose	U1R20017-ND	3.22	2.79	2.42	—	—	√	—

* Can be used on 19AWG (.9mm) Foam Insulated Cable.

Fig. 1

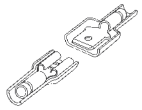


Fig. 2

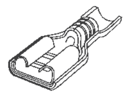


Fig. 3

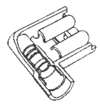


Fig. 4

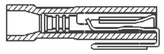


Fig. 5

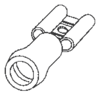


Fig. 6

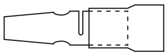


Fig. 7

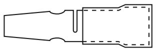


Fig. 8

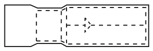


Fig. 9

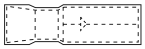
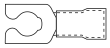


Fig. 10



Fully-Insulated Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size In. (mm)	Max. Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
Avikrimp® - Male									
1	22-18 Red	15	.250 (6.35)	.140 (3.56)	WM18225-ND	.46	.37	.31	19001-0001
		16	.187 (4.75)	.140 (3.56)	WM18226-ND	.46	.37	.31	19001-0003
	16-14 Blue	15	.250 (6.35)	.170 (4.32)	WM18227-ND	.46	.37	.31	19001-0006
		16	.187 (4.75)	.170 (4.32)	WM18228-ND	.53	.42	.35	19001-0008
	12-10 Yellow	4	.250 (6.35)	.230 (5.84)	WM18229-ND	.55	.44	.37	19001-0010
Avikrimp® - Female									
1	22-18 Red	16	.250 (6.35)	.125 (3.18)	WM18230-ND	.42	.34	.28	19002-0001
			.187 (4.75)	.125 (3.18)	WM18231-ND	.42	.34	.28	19002-0005
	16-14 Blue	16	.250 (6.35)	.155 (3.94)	WM18232-ND	.42	.34	.28	19002-0024
			.187 (4.75)	.155 (3.94)	WM18233-ND	.43	.34	.29	19002-0028
	12-10 Yellow	16	.250 (6.35)	.245 (6.22)	WM18234-ND	.50	.40	.33	19002-0044
Insulkrimp® - Female (Standard Flare)									
2	26-24 Yellow	5	.250 (6.35)	.075 (1.91)	WM18235-ND	.22	.18	.15	19003-0071
			.187 (4.75)	.075 (1.91)	WM18236-ND	.22	.17	.15	19003-0064
	22-18 Red	16	.250 (6.35)	.135 (3.43)	WM18237-ND	.23	.19	.16	19003-0001
			.187 (4.75)	.135 (3.43)	WM18238-ND	.23	.18	.15	19003-0011
	22-18 Red	25	.187 x .032 (4.75 x 0.81)	.135 (3.43)	WM5928-ND*	.26	.21	.17	19003-0129
	16-14 Blue	16	.250 (6.35)	.145 (3.68)	WM18239-ND	.23	.18	.15	19003-0040
			.187 (4.75)	.160 (4.06)	WM18240-ND	.18	.14	.12	19003-0050
	16-14 Blue	24	.250 x .032 (6.35 x 0.81)	.145 (3.68)	WM5929-ND*	.20	.16	.14	19003-0044
			.187 x .020 (4.75 x 0.51)	.160 (4.06)	WM5927-ND*	.27	.22	.18	19003-0132
			.187 x .032 (4.75 x 0.81)	.160 (4.06)	WM5930-ND*	.29	.23	.19	19003-0135
Insulkrimp® - Female (Expanded Flare)									
2	12-10 Yellow	16	.250 (6.35)	.275 (6.98)	WM18241-ND	.32	.25	.21	19005-0010

* w/94V-0 Material

Avikrimp® Fully Pre-Insulated Quick Disconnect Flags

Fig.	AWG	Crimp Tool #	Tab Size In. (mm)	Max. Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
3	22-18 Red	12	.250 x .032(6.35 x 0.81))	.150 (3.81)	WM18242-ND	.43	.35	.29	19006-0001
			.187 x .020 (4.75 x 0.51)	.150 (3.81)	WM18245-ND	.43	.35	.29	19006-0005
	16-14 Blue	12	.250 x .032 (6.35 x 0.81)	.170 (4.32)	WM18243-ND	.44	.35	.29	19006-0011
			.187 .020 (4.75 x 0.81)	.170 (4.32)	WM18246-ND	.43	.35	.29	19006-0015
	12-10 Yellow	13	.250 x .032 (6.35 x 0.81)	.248 (6.30)	WM18244-ND	.85	.68	.57	19006-0019

Insulkrimp® Fully-Insulated Flag Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size In. (mm)	Max. Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
3	22-18 Red	14	.250 (6.35)	.175 (4.44)	WM18247-ND	.22	.18	.15	19007-0001
			.187 (4.75)	.175 (4.44)	WM18250-ND	.33	.27	.22	19007-0009
	16-14 Blue	14	.250 (6.35)	.200 (5.08)	WM18248-ND	.33	.27	.22	19007-0021
			.187 (4.75)	.200 (5.08)	WM18251-ND	.33	.26	.22	19007-0029
	16-14 Blue	5	.250 (6.35)	.200 (5.08)	WM5931-ND*	.29	.23	.19	19007-0073
	12-10 Yellow	13	.250 (6.35)	.262 (6.65)	WM18249-ND	.72	.58	.49	19007-0040

* w/94V-0 Material

Piggyback QD's Fully-Insulated Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size In. (mm)	Max. Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
4	22-18	11	.250 (6.35)	.060 (1.52)	WM18252-ND	.63	.51	.42	19013-0001
	16-14		.250 (6.35)	.145 (3.68)	WM18253-ND	.64	.51	.43	19013-0005
	12-10		.250 (6.35)	.150 (3.81)	WM18254-ND	.90	.72	.60	19013-0018

Avikrimp® Nylon Insulated with Vibration Support Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size In. (mm)	Max. Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
Female									
5	22-18	16	.250 x.032 (6.3 x 0.8)	.115 (2.9)	WM18255-ND	.26	.21	.17	19019-0012
			.187 x .020 (4.7 x 0.5)	.115 (2.9)	WM18257-ND	.20	.16	.14	19019-0006
			.110 x .032 (2.8 x 0.8)	.115 (2.9)	WM18259-ND	.20	.16	.14	19019-0004
			.110 x .020 (2.8 x 0.5)	.115 (2.9)	WM18260-ND	.27	.22	.18	19019-0001
	16-14	16	.250 x .032 (6.3 x 0.8)	.138 (3.5)	WM18262-ND	.20	.16	.14	19019-0031
			.187 x .020 (4.7 x 0.5)	.138 (3.5)	WM18258-ND	.20	.16	.14	19019-0027
			.110 x .020 (2.8 x 0.5)	.138 (3.5)	WM18261-ND	.26	.21	.18	19019-0022
	12-10	16	.250 x .032 (6.3 x 0.8)	.225 (5.7)	WM18256-ND	.40	.32	.27	19019-0037

Snap Plugs

Fig.	AWG	Crimp Tool #	Dia. In. (mm)	Max. Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation)									
6	22-18	18	.156 (3.96)	.140 (3.6)	WM18263-ND	.22	.18	.15	19034-0005
	16-14	19	.156 (3.96)	.175 (4.4)	WM18264-ND	.20	.16	.14	19034-0009
Avikrimp® (Nylon Insulation)									
7	22-18	18	.156 (3.96)	.140 (3.6)	WM18267-ND	.34	.27	.23	19036-0003
	16-14	9	.156 (3.96)	.170 (4.3)	WM18268-ND	.35	.28	.23	19036-0008

Snap Plug Receptacles

Fig.	AWG	Crimp Tool #	Snap Plug Dia. In. (mm)	Max. Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation)									
8	22-18	21	.156 (3.9)	.140 (3.5)	WM18265-ND	.20	.16	.14	19038-0001
	16-14	22	.156 (3.9)	.170 (4.3)	WM18266-ND	.21	.17	.14	19038-0007
Avikrimp® (Nylon Insulation)									
9	22-18	21	.156 (3.9)	.125 (3.2)	WM18269-ND	.32	.26	.21	19039-0001
	16-14	22	.156 (3.9)	.150 (3.8)	WM18270-ND	.32	.26	.21	19039-0006

Snap Spade Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max Wire Insul. Dia. In. (mm)	Max. Width In. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation)										
10	22-18 Red	17	5-6	.145 (3.7)	.260 (6.6)	WM18315-ND	.16	.13	.11	19099-0009
		15	8	.145 (3.7)	.300 (7.6)	WM18316-ND	.16	.13	.11	19099-0003
		17	10	.145 (3.7)	.340 (8.6)	WM18317-ND	.16	.13	.11	19099-0015
	16-14 Blue	15	5-6	.175 (4.4)	.260 (6.6)	WM18318-ND	.20	.16	.14	19099-0027
			8	.175 (4.4)	.320 (8.1)	WM18319-ND	.21	.17	.14	19099-0032
			10	.175 (4.4)	.340 (8.6)	WM18320-ND	.16	.13	.11	19099-0034
	12-10 Yellow	15	5-6	.250 (6.4)	.260 (6.6)	WM18321-ND	.30	.24	.20	19099-0044
			8	.250 (6.4)	.330 (8.4)	WM18322-ND	.26	.21	.18	19099-0038
			10	.250 (6.4)	.340 (8.6)	WM18323-ND	.21	.17	.14	19099-0050
Avikrimp® (Nylon Insulation)										
10	22-18 Red	17	5-6	.140 (3.6)	.260 (6.6)	WM18324-ND	.22	.18	.15	19115-0009
			5-6	.140 (3.6)	.270 (6.8)	WM18325-ND	.28	.22	.19	19115-0001
			8	.140 (3.6)	.300 (7.6)	WM18326-ND	.22	.18	.15	19115-0003
			8	.140 (3.6)	.320 (8.1)	WM18327-ND	.28	.22	.19	19115-0012
			10	.140 (3.6)	.340 (8.6)	WM18328-ND	.28	.23	.19	19115-0014
	16-14 Blue	15	5-6	.170 (4.3)	.260 (6.6)	WM18329-ND	.28	.22	.19	19115-0024
			5-6	.170 (4.3)	.270 (6.8)	WM18330-ND	.22	.18	.15	19115-0016
			8	.170 (4.3)	.320 (8.1)	WM18331-ND	.22	.18	.15	19115-0079
			10	.170 (4.3)	.340 (8.6)	WM18332-ND	.22	.18	.15	19115-0031
	12-10 Yellow	15	5-6	.225 (5.7)	.260 (6.6)	WM18333-ND	.50	.41	.34	19115-0042
			8	.225 (5.7)	.330 (8.4)	WM18334-ND	.27	.22	.18	19115-0035
			10	.225 (5.7)	.340 (8.6)	WM18335-ND	.29	.23	.19	19115-0048

(Continued)

Fig. 11

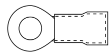


Fig. 12

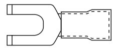


Fig. 13

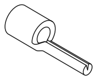


Fig. 14

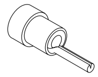


Fig. 15

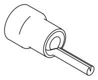


Fig. 16

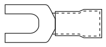


Fig. 17

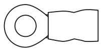


Fig. 18

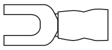


Fig. 19

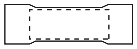


Fig. 20

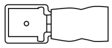
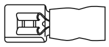


Fig. 21



Standard Ring Tongue

Fig.	AWG	Crimp Tool #	Stud Size	Max. Width In. (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
Insulkrimp® (PVC Insulation)									
11	22-18	17	1-2	.235 (6.0)	WM18271-ND	.14	.11	.10	19070-0005
			3-4	.235 (6.0)	WM18272-ND	.14	.11	.10	19070-0007
			5-6	.264 (6.7)	WM18273-ND	.20	.16	.13	19070-0040
			8	.322 (8.2)	WM18274-ND	.14	.11	.10	19070-0013
			10	.322 (8.2)	WM18275-ND	.21	.17	.14	19070-0015
			1/4	.477 (12.1)	WM18276-ND	.23	.18	.15	19070-0023
			5/16	.477 (12.1)	WM18277-ND	.23	.18	.15	19070-0026
			3/8	.544 (13.8)	WM18278-ND	.24	.19	.16	19070-0033
	16-14	15	3-4	.260 (6.6)	WM18279-ND	.19	.15	.13	19070-0067
			5-6	.260 (6.6)	WM18280-ND	.19	.16	.13	19070-0069
			8	.322 (8.2)	WM18281-ND	.14	.11	.10	19070-0086
			10	.322 (8.2)	WM18282-ND	.20	.16	.13	19070-0090
			1/4	.477 (12.1)	WM18283-ND	.22	.18	.15	19070-0075
			5/16	.477 (12.1)	WM18284-ND	.22	.18	.15	19070-0078
			3/8	.544 (13.8)	WM18285-ND	.25	.21	.17	19070-0059
	12-10	15	5-6	.292 (7.4)	WM18286-ND	.18	.15	.12	19070-0143
		15	8	.292 (7.4)	WM18287-ND	.25	.20	.17	19070-0145
		15	10	.385 (9.8)	WM18288-ND	.18	.15	.12	19070-0123
		15	1/4	.540 (13.7)	WM18289-ND	.21	.17	.14	19070-0132
		15	5/16	.540 (13.7)	WM18290-ND	.21	.17	.14	19070-0136
		15	3/8	.598 (15.2)	WM18291-ND	.31	.25	.21	19070-0153
		18	1/2	.760 (19.3)	WM18292-ND	.37	.29	.25	19070-0109
Avikrimp® (Nylon Insulation)									
11	22-18	17	1-2	.235 (6.0)	WM18293-ND	.25	.20	.17	19073-0005
			3-4	.235 (6.0)	WM18294-ND	.26	.21	.17	19073-0007
			5-6	.264 (6.7)	WM18295-ND	.26	.21	.17	19073-0038
			8	.322 (8.2)	WM18296-ND	.21	.17	.14	19073-0013
			10	.322 (8.2)	WM18297-ND	.21	.17	.14	19073-0017
			1/4	.477 (12.1)	WM18298-ND	.29	.24	.20	19073-0024
			5/16	.477 (12.1)	WM18299-ND	.29	.23	.19	19073-0027
			3/8	.544 (13.8)	WM18300-ND	.38	.31	.26	19073-0032
	16-14	15	3-4	.260 (6.6)	WM18301-ND	.27	.22	.18	19073-0065
			5-6	.260 (6.6)	WM18302-ND	.21	.17	.14	19073-0067
			8	.322 (8.2)	WM18303-ND	.28	.22	.19	19073-0085
			10	.322 (8.2)	WM18304-ND	.21	.17	.14	19073-0087
			1/4	.477 (12.1)	WM18305-ND	.30	.24	.20	19073-0076
			5/16	.477 (12.1)	WM18306-ND	.30	.24	.20	19073-0079
			3/8	.544 (13.8)	WM18307-ND	.32	.26	.22	19073-0059
	12-10	15	5-6	.292 (7.4)	WM18308-ND	.37	.30	.25	19073-0216
			8	.292 (7.4)	WM18309-ND	.37	.30	.25	19073-0222
			10	.385 (9.8)	WM18310-ND	.34	.28	.23	19073-0170
			1/4	.540 (13.7)	WM18311-ND	.41	.33	.27	19073-0188
			5/16	.540 (13.7)	WM18312-ND	.28	.23	.19	19073-0200
			3/8	.598 (15.2)	WM18313-ND	.43	.35	.29	19073-0236
			1/2	.760 (19.3)	WM18314-ND	.47	.37	.31	19073-0145

Flanged Spade Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max Wire Insul. Dia. In. (mm)	Max. Width In. (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
Insulkrimp® (PVC Insulation)										
12	22-18 Red	15	5-6	.145 (3.7)	.301 (7.6)	WM18336-ND	.14	.12	.10	19121-0005
			8	.145 (3.7)	.301 (7.6)	WM18337-ND	.20	.16	.14	19121-0007
			10	.145 (3.7)	.301 (7.6)	WM18338-ND	.20	.16	.13	19121-0009
	16-14 Blue	15	5-6	.175 (4.4)	.301 (7.6)	WM18339-ND	.19	.15	.13	19121-0026
			8	.175 (4.4)	.301 (7.6)	WM18340-ND	.14	.11	.10	19121-0028
			10	.175 (4.4)	.301 (7.6)	WM18341-ND	.14	.11	.10	19121-0030
	12-10 Yellow	15	8	.250 (6.4)	.385 (9.8)	WM18342-ND	.16	.13	.11	19121-0053
			10	.250 (6.4)	.385 (9.8)	WM18343-ND	.16	.13	.11	19121-0056
Avikrimp® (Nylon Insulation)										
12	22-18	17	5-6	.140 (3.6)	.301 (7.6)	WM18344-ND	.26	.21	.18	19127-0007
			10	.140 (3.6)	.301 (7.6)	WM18346-ND	.26	.21	.18	19127-0012
	16-14 Blue	15	5-6	.170 (4.3)	.301 (7.6)	WM18347-ND	.27	.22	.18	19127-0039
			8	.170 (4.3)	.301 (7.6)	WM18348-ND	.27	.22	.18	19127-0042
			10	.170 (4.3)	.301 (7.6)	WM18349-ND	.27	.22	.18	19127-0099
	12-10 Yellow	15	8	.225 (5.7)	.385 (9.8)	WM18350-ND	.42	.34	.28	19127-0086
			10	.225 (5.7)	.385 (9.8)	WM18351-ND	.42	.34	.28	19127-0089

Wire Pin Terminals

Fig.	AWG	Crimp Tool #	Pin Dia. In. (mm)	Max Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
Krimptite® (Non-insulated)									
13	22-18	23	.08 (2.03)	—	WM18374-ND	.15	.12	.10	19211-0003
	16-14		.08 (2.03)	—	WM18375-ND	.15	.12	.10	19211-0005
	12-10		.12 (3.05)	—	WM18376-ND	.20	.16	.14	19211-0001
Insulkrimp® (PVC Insulation)									
14	22-18 Red	15	.08 (2.03)	.145 (3.68)	WM18377-ND	.25	.20	.17	19212-0003
	16-14 Blue		.08 (2.03)	.175 (4.44)	WM18378-ND	.17	.14	.12	19212-0005
	12-10 Yellow		.12 (3.05)	.25 (6.35)	WM18379-ND	.23	.18	.15	19212-0001
Avikrimp® (Nylon Insulation)									
15	22-18 Red	15	.08 (2.03)	.14 (3.56)	WM18380-ND	.32	.26	.22	19213-0009
	16-14 Blue		.08 (2.03)	.17 (4.32)	WM18381-ND	.32	.26	.22	19213-0011
	12-10 Yellow		.12 (3.05)	.225 (5.71)	WM18382-ND	.39	.31	.26	19213-0007

Spade Tongue Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max Wire Insul. Dia. In. (mm)	Max. Width In. (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
Insulkrimp® (PVC Insulation)										
16	22-18 Red	17	5-6	.145 (3.7)	.326 (8.3)	WM18352-ND	.14	.11	.10	19144-0001
			8	.145 (3.7)	.326 (8.3)	WM18353-ND	.14	.11	.10	19144-0003
			10	.145 (3.7)	.326 (8.3)	WM18354-ND	.20	.16	.14	19144-0005
	16-14 Blue	15	5-6	.175 (4.4)	.305 (7.7)	WM18355-ND	.16	.13	.11	19144-0018
			8	.175 (4.4)	.305 (7.7)	WM18356-ND	.16	.13	.11	19144-0020
			8	.175 (4.4)	.372 (9.4)	WM18357-ND	.14	.11	.10	19144-0024
			10	.175 (4.4)	.372 (9.4)	WM18358-ND	.21	.17	.14	19144-0026
	12-10 Yellow	15	5-6	.250 (6.4)	.385 (9.8)	WM18359-ND	.16	.13	.11	19144-0037
			8	.250 (6.4)	.385 (9.8)	WM18360-ND	.32	.25	.21	19144-0039
			10	.250 (6.4)	.385 (9.8)	WM18361-ND	.16	.13	.11	19144-0042
			1/4	.250 (6.4)	.543 (13.8)	WM18362-ND	.29	.23	.20	19144-0046
Avikrimp® (Nylon Insulation)										
16	22-18 Red	17	5-6	.140 (3.6)	.326 (8.3)	WM18363-ND	.28	.22	.19	19198-0070
			8	.140 (3.6)	.326 (8.3)	WM18364-ND	.28	.22	.19	19198-0004
			10	.140 (3.6)	.326 (8.3)	WM18365-ND	.28	.22	.19	19198-0006
	16-14 Blue	15	5-6	.170 (4.3)	.305 (7.7)	WM18366-ND	.27	.21	.18	19198-0016
			8	.170 (4.3)	.305 (7.7)	WM18367-ND	.23	.19	.16	19198-0019
			10	.170 (4.3)	.372 (9.4)	WM18369-ND	.28	.23	.19	19198-0025
	12-10 Yellow	15	5-6	.225 (5.7)	.385 (9.8)	WM18370-ND	.40	.32	.27	19198-0044
			8	.225 (5.7)	.385 (9.8)	WM18371-ND	.40	.32	.27	19198-0047
			10	.225 (5.7)	.385 (9.8)	WM18372-ND	.39	.32	.26	19198-0050
			1/4	.225 (5.7)	.543 (13.8)	WM18373-ND	.40	.33	.27	19198-0056

Perma-Seal - All Weather, Heat-Sealable Nylon Terminals and Splices

Fig.	AWG	Crimp Tool #	Stud Size	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
Ring								
17	22/18	1	6	WM18397-ND	.78	.63	.52	19164-0085
			8	WM18398-ND	.78	.63	.52	19164-0086
			10	WM18399-ND	.78	.63	.52	19164-0003
			1/4	WM18400-ND	.78	.63	.52	19164-0004
			3/8	WM18401-ND	.78	.62	.52	19164-0005
	16/14	1	6	WM18402-ND	.82	.66	.55	19164-0032
			8	WM18403-ND	.82	.66	.55	19164-0033
			10	WM18404-ND	.82	.66	.55	19164-0034
			1/4	WM18405-ND	.82	.66	.55	19164-0026
			5/16	WM18406-ND	.82	.66	.55	19164-0027
			3/8	WM18407-ND	.82	.66	.55	19164-0020
	12/10	1	6	WM18408-ND	.88	.70	.59	19164-0061
			8	WM18409-ND	.88	.70	.59	19164-0062
			10	WM18410-ND	.88	.70	.59	19164-0065
			1/4	WM18411-ND	.80	.64	.54	19164-0066
			5/16	WM18412-ND	.88	.70	.59	19164-0067
			3/8	WM18413-ND	.88	.70	.59	19164-0068
			1/2	WM18414-ND	.88	.70	.59	19164-0058
Spade								
18	22/18	1	6	WM18415-ND	.78	.62	.52	19164-0006
			8	WM18416-ND	.78	.63	.52	19164-0007
			10	WM18417-ND	.78	.62	.52	19164-0008
	16/14	1	6	WM18418-ND	.82	.66	.55	19164-0028
			8	WM18419-ND	.82	.66	.55	19164-0029
			10	WM18420-ND	.82	.66	.55	19164-0030
	12/10	1	6	WM18421-ND	.88	.70	.59	19164-0069
			8	WM18422-ND	.88	.70	.59	19164-0070
			10	WM18423-ND	.88	.70	.59	19164-0072
			1/4	WM18424-ND	.88	.70	.59	19164-0073
Butt Splices								
19	22-18	1	—	WM18425-ND	.81	.65	.54	19164-0013
	16-14		—	WM18426-ND	.85	.68	.57	19164-0044
	12-10		—	WM18427-ND	.91	.73	.61	19164-0056
Quick Disconnect Couplers - Male								
20	22/18	3	.250 (6.35)	WM18428-ND	.81	.65	.54	19164-0015
	16/14	3	.250 (6.35)	WM18430-ND	.85	.68	.57	19164-0048
	12/10	2	.250 (6.35)	WM18432-ND	.91	.73	.61	19164-0075
Quick Disconnect Couplers - Female								
21	22/18	3	.250 (6.35)	WM18429-ND	.81	.65	.54	19164-0017
	16/14	3	.250 (6.35)	WM18431-ND	.85	.68	.57	19164-0050
	12/10	2	.250 (6.35)	WM18433-ND	.91	.73	.61	19164-0076

(Continued)

Fig. 22

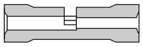


Fig. 23

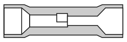


Fig. 24

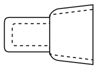


Fig. 25

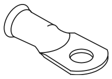


Fig. 26

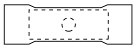
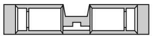


Fig. 27



Step Down Butt Connectors

Fig.	AWG	Crimp Tool #	Insulation Color	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
22	16/14 to 22/18	17	Non-Insulated	WM18389-ND	.95	.76	.64	19215-0013
	12/10 to 16/14		Non-Insulated	WM18390-ND	1.02	.82	.68	19215-0023
23	16/14 to 22/18	9	Blue w/Red Stripe	WM18391-ND	.80	.64	.54	19154-0022
	12/10 to 16/14	10	Yellow w/Blue Stripe	WM18392-ND	1.06	.85	.71	19154-0035

Nylon-Insulated, Closed-End Connectors

Fig.	AWG	Crimp Tool #	Outside Diameter In. (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
24	22-14	6	.31 (7.8)	WM18393-ND	.12	.10	.08	19160-0012
	22-12	7	.35 (8.9)	WM18394-ND	.12	.10	.08	19160-0009
	16-10	6	.44 (11.2)	WM18395-ND	.16	.13	.11	19160-0002
	8	8	.56 (14.2)	WM18396-ND	.31	.25	.21	19160-0024

Heavy Duty Ring Tongue Terminals

Fig.	AWG	Stud Size	Dimensions Length In. (mm)	Width In. (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
25	8	#10	1.20 (30.48)	.445 (11.30)	WM5932-ND	.82	.68	.49	19221-0223
		1/4	1.20 (30.48)	.445 (11.30)	WM5933-ND	.82	.68	.49	19221-0224
		5/16	1.305 (33.15)	.445 (11.30)	WM5934-ND	.82	.68	.49	19221-0225
		3/8	1.305 (33.15)	.605 (15.37)	WM5935-ND	1.10	.91	.65	19221-0226
	6	1/4	1.270 (32.26)	.605 (15.37)	WM5936-ND	1.45	1.20	.86	19221-0227
		5/16	1.410 (35.81)	.605 (15.37)	WM5937-ND	1.54	1.28	.91	19221-0228
		3/8	1.410 (35.81)	.605 (15.37)	WM5938-ND	1.54	1.28	.91	19221-0229
	4	1/4	1.500 (38.10)	.525 (13.33)	WM5939-ND	1.51	1.25	.89	19221-0230
		5/16	1.530 (38.86)	.525 (13.33)	WM5940-ND	1.47	1.22	.87	19221-0231
		3/8	1.530 (38.86)	.525 (13.33)	WM5941-ND	1.47	1.22	.87	19221-0232
	2	5/16	1.620 (41.15)	.615 (15.62)	WM5942-ND	2.06	1.70	1.22	19221-0233
		3/8	1.620 (41.15)	.615 (15.62)	WM5943-ND	2.06	1.70	1.22	19221-0235
		1/2	1.750 (44.45)	.755 (19.18)	WM5944-ND	2.77	2.29	1.63	19221-0236
	1	5/16	1.720 (43.69)	.655 (16.64)	WM5945-ND	2.15	1.77	1.27	19221-0237
		3/8	1.720 (43.69)	.655 (16.64)	WM5946-ND	2.15	1.77	1.27	19221-0238
		1/2	1.830 (46.48)	.755 (19.18)	WM5947-ND	2.96	2.44	1.75	19221-0239
	1/0	5/16	1.830 (46.48)	.725 (18.42)	WM5948-ND	2.83	2.34	1.67	19221-0240
		3/8	1.830 (46.48)	.725 (18.42)	WM5949-ND	2.83	2.34	1.67	19221-0241
		1/2	1.830 (46.48)	.725 (18.42)	WM5950-ND	2.83	2.34	1.67	19221-0242
	2/0	5/16	2.062 (52.37)	.815 (20.70)	WM5951-ND	3.08	2.54	1.82	19221-0243
		3/8	2.062 (52.37)	.815 (20.70)	WM5952-ND	3.08	2.54	1.82	19221-0244
		1/2	2.062 (52.37)	.815 (20.70)	WM5953-ND	3.08	2.54	1.82	19221-0245
	3/0	5/16	2.160 (54.86)	.895 (22.73)	WM5954-ND	4.24	3.50	2.50	19221-0246
		3/8	2.160 (54.86)	.895 (22.73)	WM5955-ND	3.85	3.18	2.27	19221-0247
		1/2	2.160 (54.86)	.895 (22.73)	WM5956-ND	3.85	3.18	2.27	19221-0248
	4/0	3/8	2.350 (59.69)	.985 (25.02)	WM5957-ND	4.79	3.95	2.82	19221-0250
		1/2	2.350 (59.69)	.985 (25.02)	WM5958-ND	4.79	3.95	2.82	19221-0251

Butt Splices

Fig.	AWG	Crimp Tool #	O.D. In. (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
Insulkrimp® (PVC Insulation)								
26	22-18	18	.135 (3.4)	WM18383-ND	.13	.10	.09	19154-0004
	16-14	9	.160 (4.1)	WM18384-ND	.15	.12	.10	19154-0015
	12-10	15	.220 (5.6)	WM18385-ND	.21	.17	.14	19154-0028

Window Butt Splices

Fig.	AWG	Crimp Tool #	Max Wire Insul. Dia. In. (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
27	22-18 Red	15	.140 (3.56)	WM18386-ND	.80	.64	.53	19199-0007
	16-14 Blue		.170 (4.32)	WM18387-ND	.40	.32	.27	19199-0009
	12-10 Yellow		.228 (5.79)	WM18388-ND	.55	.44	.37	19199-0011

Crimp Tools

WM9938-ND	**#1**	Sealed Ring, Spade and Butt	**$103.63**
WM9939-ND	**#2**	Sealed, 10-12 AWG .250" (6.35mm)	**$368.47**
WM9940-ND	**#3**	Sealed, 14-22 AWG .250" (6.35mm)	**$81.24**
WM9941-ND	**#4**	10-12 AWG .250" (6.35mm)	**$309.84**
WM9942-ND	**#5**	24-26 AWG .187" (4.75mm) and .250" (6.35mm)	**$309.84**
WM9943-ND	**#6**	Splice 14-22 and 10-16 AWG	**$244.26**
WM9944-ND	**#7**	Splice 12-22 AWG	**$244.26**
WM9945-ND	**#8**	Splice 8 AWG	**$309.84**
WM9946-ND	**#9**	Butt Splice 14-16 AWG	**$309.83**
WM9947-ND	**#10**	Butt Splice 10-12 AWG	**$309.84**
WM9948-ND	**#11**	Piggyback .250" QD	**$337.63**
WM9949-ND	**#12**	Flag QD's .187" (4.75mm) and .250" (6.35mm)	**$327.87**
WM9950-ND	**#13**	Flag QD's .250" (6.35mm) 10-12 AWG	**$452.68**
WM9951-ND	**#14**	Flag QD's .187" (4.75mm)	**$261.14**
WM9952-ND	**#15**	Terminals/Splices 10-22 AWG	**$309.84**
WM9965-ND	**#16**	Quick Connects 10-22 AWG	**$309.84**
WM9954-ND	**#17**	Terminals/Splices 10-22 AWG	**$309.84**
WM9955-ND	**#18**	Snap Plug 18-22 AWG	**$309.84**
WM9966-ND	**#19**	*NEW!* Snap Plug 14-16 AWG	**$301.43**
WM9957-ND	**#20**	Snap Plug 18-22 AWG	**$309.84**
WM9958-ND	**#21**	Snap Plug 14-16 AWG	**$227.86**
WM9959-ND	**#22**	Wire Pins 10-22 AWG	**$227.87**
WM9972-ND	**#23**	*NEW!* 14-16 AWG .187" and .250" (4.75mm and 6.35mm)	**$346.44**
WM5979-ND	**#24**	18-22 AWG .187" (4.75mm)	**$214.03**
WM5980-ND	**#25**	Ringterm 8-4/0 AWG	**$244.30**

PS Connectors for Tabs

Features:

Secure Locking, Easy Insertion: The combination of terminal and housing provides easy mating onto the male tab. Unmating is also easy, by holding the housing while pulling, the contact lock spring is disengaged by the taper inside the housing. Should you accidentally pull the wire, the locking mechanism ensure that disengagement does not take place.

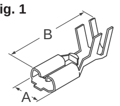
Stable Contact Performance: The contact is designed with a large contact area to give stable performance, even when high current is applied.

Mis-Insertion Prevention Mechanism and Housing Lance: Inside the housing is a stopper that prevents mis-insertion, which ensures that someone will not mistakenly insert a contact in the housing.

Specifications: Current Rating: 25A AC, DC (250 + AWG 10). **Voltage Rating:** 250V AC, DC. **Temp. Range:** -40°C to +105°C.

Applicable Tab: .187" Tab 0.5mm (.020")/0.8mm (.031") thick; .250" Tab 0.8mm (.031") thick.

Fig. 1



Contact for Fig. 2, 3 & 4

Fig. 2

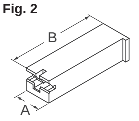


Fig. 3

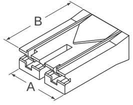


Fig. 4

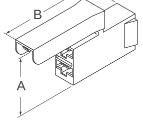
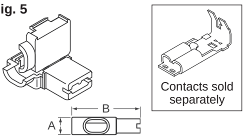


Fig. 5



Contacts sold separately

Contacts sold separately

Circuits	Tab Size	AWG	Dim. (Inch) A	B	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Pricing	JST Part No.
Fig. 1 – Uninsulated Terminal Contacts for Fig. 2, 3 and 4 and Crimp Tools											
—	.187"	20-26	.22	.68	455-1106-1-ND	.67	5.96	26.29	455-1106-2-ND	280.00/10,000	SPS-01T-187
Crimp Tool for 20-26 AWG .187" Terminals					455-1107-ND	367.01 Each			—	—	WC-730
—	.187"	14-20	.22	.68	455-1149-1-ND	.53	4.73	20.89	455-1149-2-ND	165.00/7,500	SPS-51T-187
Crimp Tool for 16-20 AWG .187" Terminals					455-1144-ND	367.01 Each			—	—	WC-710
Crimp Tool for 14-18 AWG .187" Terminals					455-1145-ND	388.91 Each			—	—	YC-711
—	.250"	18-22	.30	.82	455-1115-1-ND	1.07	9.55	42.11	455-1115-2-ND	225.00/5,000	SPS-21T-250
Crimp Tool for 18-22 AWG .250" Terminals					455-1116-ND	367.01 Each			—	—	WC-780
—	.250"	14-18	.30	.82	455-1117-1-ND	.97	8.65	38.16	455-1117-2-ND	205.00/5,000	SPS-61T-250
	.250"	14-18	.30	.82	455-1119-1-ND*	.76	6.77	29.85	455-1119-2-ND*	160.00/5,000	SRSF-61T-250A
Crimp Tool for 14-18 AWG .250" Terminals					455-1118-ND	367.01 Each			—	—	WC-720
Fig. 2 – Single Vertical Housings (Contacts Sold Separately Above)											
1	.187"	—	.30	.96	455-1108-ND	.54	4.51	18.05	—	—	PS-187
	.250"	—	.35	1.09	455-1112-ND	.56	4.66	18.62	—	—	PS-250
Fig. 3 – Dual Vertical Housings (Contacts Sold Separately Above)											
2	.187"	—	.88	.96	455-1109-ND	1.24	10.32	41.28	—	—	PS-187-2A-15
	.250"	—	.94	1.09	455-1113-ND	1.32	10.98	43.92	—	—	PS-250-2A-15
Fig. 4 – Triple Staggered Vertical Housings (Contacts Sold Separately Above)											
3	.187"	—	.72	1.69	455-1110-ND	1.84	15.31	61.25	—	—	PS-187-3V
Fig. 5 – Single Right Angle "One Touch Sleeve" Housings (Contacts Sold Separately Below)											
1	.187"	—	.25	.69	455-1111-ND†	1.25	10.38	41.52	—	—	FPS-187
	.250"	—	.28	.78	455-1114-ND†	1.32	11.04	44.14	—	—	FPS-250
Contacts and Crimp Tool for Fig. 5 Housings											
—	.187"	16-22	—	—	455-1147-1-ND	.90	8.08	35.64	455-1147-2-ND	190.00/5,000	SFPS-41T-187
	.250"	14-18	—	—	455-1148-1-ND	1.36	12.16	53.64	455-1148-2-ND	171.00/3,000	SFPS-61T-250
Crimp Tool for 14-18 AWG .250" Terminals					455-1146-ND	418.01 Each			—	—	YC-272

* Low Insertion Force .250" Terminal † Not CSA certified

Amphenol® Circular Bayonet Lock Connectors

Fig. 1

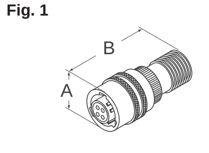


Fig. 2

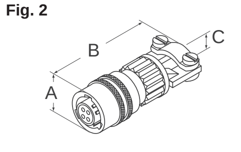


Fig. 3

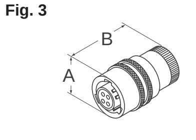


Fig. 4

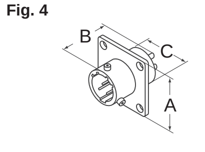


Fig. 5

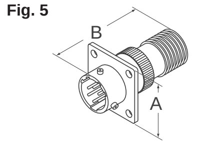


Fig. 6

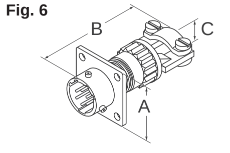


Fig. 7

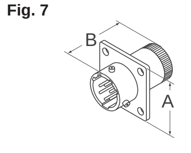


Fig. 8

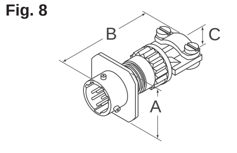


Fig. 9

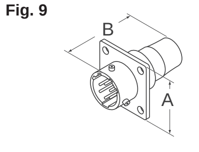
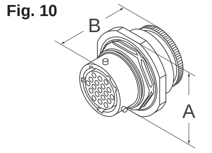
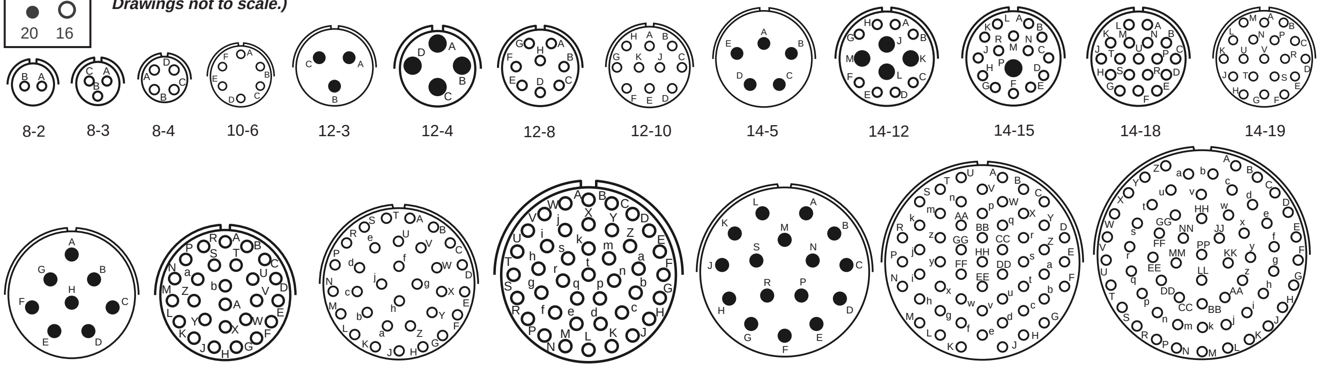


Fig. 10



CONTACT LEGEND
● 20 ○ 16

Insert Patterns ***(Front face of pin insert shown. Drawings not to scale.)***



8-2 8-3 8-4 10-6 12-3 12-4 12-8 12-10 14-5 14-12 14-15 14-18 14-19

16-8 16-26 18-32 20-41 20-16 22-55 24-61

Aluminum shell components. Standard olive drab, electrically conductive cadmium plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene. **Solder contacts** are installed. Pins and sockets are copper alloy/gold plated. **Strain relief** is included on plug.

PT solder series is UL recognized under file #E115497, Section 5

PT with Solder Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size Insert Arrangement No.	No. of Contacts/ Size	Description	Dim. in Inches A	B	C	Digi-Key Part No.	Price Each 1	10
2	8-2	2/20	Plug w/sockets	.750	1.906	.125	PT06A-8-2S(SR)-ND*	21.07	13.75
4			Recept. w/pins	.812	.825	—	PT02A-8-2P-ND	10.55	7.39
2	8-3	3/20	Plug w/sockets	.750	1.906	.125	PT06A-8-3S(SR)-ND*	22.09	14.42
2			Plug w/sockets	.750	1.906	.125	PT06E-8-3S(SR)-ND*	22.73	14.55
4			Recept. w/pins	.812	.825	—	PT02A-8-3P-ND	11.83	8.28
4			Recept. w/pins	.812	.825	—	PT02E-8-3P-ND	10.05	6.03
1	8-4	4/20	Plug w/sockets	.750	1.609	—	PT06A-8-4S-ND	15.83	11.08
2			Plug w/pins	.750	1.906	.125	PT06E8-4P(SR)-ND*	26.59	17.03
2			Plug w/sockets	.750	1.906	.125	PT06E8-4S(SR)-ND*	26.63	17.05
2			Plug w/pins	.750	1.906	.125	PT06A-8-4P(SR)-ND*	19.76	12.90
2			Plug w/sockets	.750	1.906	.125	PT06A-8-4S(SR)-ND*	20.19	13.18
3			Plug w/sockets	.750	1.266	—	PT06E-8-4S-ND	16.74	10.93
4			Recept. w/pins	.812	.825	—	PT02A8-4P-ND	10.85	6.51
4			Recept. w/sockets	.812	.825	—	PT02A8-4S-ND	10.06	7.05
4			Recept. w/pins	.812	.825	—	PT02E-8-4P-ND	11.85	7.11
4			Recept. w/sockets	.812	.825	—	PT02E-8-4S-ND	10.86	6.52
2	10-6	6/20	Plug w/pins	.869	1.906	.188	PT06E10-6P(SR)-ND*	28.58	18.30
2			Plug w/sockets	.869	1.906	.188	PT06E10-6S(SR)-ND*	29.97	19.18
2			Plug w/pins	.859	1.906	.188	PT06A-10-6P(SR)-ND*	19.97	13.04
2			Plug w/sockets	.859	1.906	.188	PT06A-10-6S(SR)-ND*	23.27	14.89
4			Recept. w/pins	.938	.825	—	PT02A10-6P-ND	11.68	7.01
4			Recept. w/sockets	.938	.825	—	PT02A10-6S-ND	11.69	8.18
4			Recept. w/pins	.938	.825	—	PT02E-10-6P-ND	11.38	7.97
4			Recept. w/sockets	.938	.825	—	PT02E-10-6S-ND	14.45	10.12
5			Recept. w/pins	.938	1.553	—	PT00A-10-6P-ND	11.58	8.11
7			Recept. w/pins	.938	1.266	—	PT00E-10-6P-ND	17.72	11.57
8			Recept. w/pins	.938	1.922	.188	PT01A-10-6P(SR)-ND*	19.19	12.53
1	12-3	3/16	Plug w/sockets	1.013	1.609	—	PT06A-12-3S-ND	14.83	10.38
2			Plug w/pins	1.013	1.906	.312	PT06E12-3P(SR)-ND*	27.75	17.76
2			Plug w/sockets	1.013	1.906	.312	PT06E12-3S(SR)-ND*	29.67	18.99
2			Plug w/pins	1.013	1.906	.312	PT06A-12-3P(SR)-ND*	20.47	13.37
2			Plug w/sockets	1.013	1.906	.312	PT06A-12-3S(SR)-ND*	21.07	13.75
4			Recept. w/pins	1.031	.825	—	PT02A12-3P-ND	17.50	11.43
4			Recept. w/sockets	1.031	.825	—	PT02A12-3S-ND	19.53	12.75
4			Recept. w/pins	1.031	.825	—	PT02E-12-3P-ND	9.54	5.73
2	12-4	14/16	Plug w/pins	1.013	1.906	.312	PT06A-12-4P(SR)-ND*	22.82	14.61
4			Recept. w/sockets	1.031	.825	—	PT02E-12-4S-ND	15.80	11.06
1	12-8	8/20	Plug w/pins	1.013	1.609	—	PT06A-12-8P-ND	19.90	12.99
1			Plug w/sockets	1.013	1.609	—	PT06A-12-8S-ND	18.29	11.94
2			Plug w/pins	1.013	1.906	.312	PT06E-12-8P(SR)-ND*	22.63	14.78
2			Plug w/sockets	1.013	1.906	.312	PT06E-12-8S(SR)-ND*	26.39	16.90
4			Recept. w/pins	1.031	.825	—	PT02E-12-8P-ND	10.90	7.63
2	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06E12-10P(SR)-ND*	27.16	17.39
2			Plug w/sockets	1.013	1.906	.312	PT06E12-10S(SR)-ND*	29.57	18.93
2	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06A-12-10P(SR)-ND*	17.45	12.22
2			Plug w/sockets	1.013	1.906	.312	PT06A-12-10S(SR)-ND*	16.23	11.36
4			Recept. w/pins	1.031	.825	—	PT02A12-10P-ND	16.65	10.87
4			Recept. w/sockets	1.031	.825	—	PT02A12-10S-ND	19.19	12.53
4			Recept. w/pins	1.031	.825	—	PT02E-12-10P-ND	11.33	7.93
4			Recept. w/sockets	1.031	.825	—	PT02E-12-10S-ND	12.35	8.65
2	14-5	5/16	Plug w/pins	1.156	1.906	.375	PT06E14-5P(SR)-ND*	32.05	20.51
2			Plug w/sockets	1.156	1.906	.375	PT06E14-5S(SR)-ND*	31.21	21.85
2			Plug w/sockets	1.156	1.906	.375	PT06A-14-5S(SR)-ND*	24.68	15.80
4			Recept. w/pins	1.125	.825	—	PT02A14-5P-ND	15.15	10.61
4			Recept. w/sockets	1.125	.825	—	PT02A14-5S-ND	17.63	11.51
4			Recept. w/pins	1.125	.825	—	PT02E-14-5P-ND	11.25	7.88
2	14-12	8/#20, 4/#16	Plug w/pins	1.156	1.906	.375	PT06A-14-12P(SR)-ND*	22.86	14.63
2			Plug w/sockets	1.156	1.906	.375	PT06E-14-12S(SR)-ND*	22.71	14.82
4			Recept. w/pins	1.125	.825	—	PT02E-14-12P-ND	11.53	8.07
4			Recept. w/sockets	1.125	.825	—	PT02E-14-12S-ND	18.83	12.30
4			Recept. w/sockets	1.125	.825	—	PT02A-14-12S-ND	17.08	11.15
4	14-15	14/#20, 1/#16	Recept. w/pins	1.125	.825	—	PT02A-14-15P-ND	11.35	7.95
1	14-18	18/20	Plug w/pins	1.156	1.609	—	PT06A-14-18P-ND	16.68	11.68
2			Plug w/sockets	1.156	1.906	.375	PT06E-14-18S(SR)-ND*	27.02	17.30
4			Recept. w/pins	1.125	.825	—	PT02A-14-18P-ND	15.05	10.54
4			Recept. w/sockets	1.125	.825	—	PT02E-14-18S-ND	16.79	10.96
2	14-19	19/20	Plug w/pins	1.156	1.906	.375	PT06E14-19P(SR)-ND*	31.36	21.95
2			Plug w/sockets	1.156	1.906	.375	PT06E14-19S(SR)-ND*	31.46	22.02
2			Plug w/pins	1.156	1.906	.375	PT06A-14-19P(SR)-ND*	24.53	15.70
4			Recept. w/pins	1.125	.825	—	PT02A14-19P-ND	14.11	9.88
4			Recept. w/sockets	1.125	.825	—	PT02A14-19S-ND	14.12	9.89
2	16-8	8/16	Plug w/pins	1.281	2.047	.500	PT06E16-8P(SR)-ND*	35.10	24.57
2			Plug w/sockets	1.281	2.047	.500	PT06E16-8S(SR)-ND*	39.58	27.71
4			Recept. w/pins	1.219	.825	—	PT02A16-8P-ND	18.08	11.80
4			Recept. w/sockets	1.219	.825	—	PT02A16-8S-ND	23.39	15.27
4	16-26	26/20	Recept. w/pins	1.219	.825	—	PT02A-16-26P-ND	19.81	12.93
2	20-16	16/16	Plug w/pins	1.531	2.250	.625	PT06E20-16P(SR)-ND*	46.70	32.69
2			Plug w/sockets	1.531	2.250	.625	PT06E20-16S(SR)-ND*	56.73	39.71
4			Recept. w/pins	1.438	1.076	—	PT02A20-16P-ND	24.41	15.63
4			Recept. w/sockets	1.438	1.076	—	PT02A20-16S-ND	31.73	22.22
2	22-55	55/20	Plug w/pins	1.656	2.250	.750	PT06E22-55P(SR)-ND*	56.73	39.72
2			Plug w/sockets	1.656	2.250	.750	PT06E22-55S(SR)-ND*	60.83	42.59
4			Recept. w/pins	1.562	1.076	—	PT02A22-55P-ND	30.31	21.22
4			Recept. w/sockets	1.562	1.076	—	PT02A22-55S-ND	34.41	24.09
1	24-61	61/20	Plug w/pins	1.776	1.750	—	PT06A-24-61P-ND	29.66	18.98
1			Plug w/sockets	1.776	1.750	—	PT06A-24-61S-ND	30.20	19.33

*(SR) at end of part number designates that a strain relief is included

(Continued)

Amphenol® Circular Bayonet Lock Connectors *(Cont.)*

MS with Solder Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. in Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
2	8-2	2/20	Plug w/sockets	.750	1.906	.125	MS3116F-8-2S-ND†	18.17	11.86
3			Plug w/sockets	.750	1.266	—	MS3116E-8-2S-ND*	14.18	9.93
4			Recept. w/pins	.812	.825	—	MS3112E-8-2P-ND*	5.36	3.04
3	8-3	3/20	Plug w/pins	.750	1.266	—	MS3116E-8-3P-ND*	14.13	9.89
3			Plug w/sockets	.750	1.266	—	MS3116E-8-3S-ND*	14.95	10.47
2			Plug w/sockets	.750	1.906	.125	MS3116F-8-3S-ND†	19.21	12.54
4			Recept. w/pins	.812	.825	—	MS3112E-8-3P-ND*	10.50	6.30
4			Recept. w/sockets	.812	.825	—	MS3112E-8-3S-ND	8.88	5.33
2	8-4	4/20	Plug w/pins	.750	1.906	.125	MS3116F-8-4P-ND†	18.03	11.77
3			Plug w/sockets	.750	1.266	—	MS3116E-8-4S-ND*	15.78	11.05
2			Plug w/sockets	.750	1.906	.125	MS3116F-8-4S-ND†	20.24	13.21
4			Recept. w/pins	.812	.825	—	MS3112E-8-4P-ND*	9.87	5.93
4			Recept. w/sockets	.812	.825	—	MS3112E-8-4S-ND*	11.90	8.33
2	10-6	6/20	Plug w/pins	.859	1.906	.188	MS3116F-10-6P-ND†	17.20	11.23
2			Plug w/sockets	.859	1.906	.188	MS3116F-10-6S-ND†	18.45	12.05
6			Recept. w/pins	.938	1.922	.188	MS3110F-10-6P-ND†	19.29	12.59
6			Recept. w/sockets	.938	1.922	.188	MS3110F-10-6S-ND†	18.57	12.13
4			Recept. w/pins	.938	.825	—	MS3112E-10-6P-ND*	10.89	6.54
4			Recept. w/sockets	.938	.825	—	MS3112E-10-6S-ND*	10.40	7.28
3			Plug w/sockets	.859	1.266	—	MS3116E-10-6S-ND*	17.05	11.94

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. in Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
2	12-3	3/16	Plug w/pins	1.013	1.906	.312	MS3116F-12-3P-ND†	16.65	11.66
2			Plug w/sockets	1.013	1.906	.312	MS3116F-12-3S-ND†	20.38	13.30
4			Recept. w/pins	1.031	.825	—	MS3112E-12-3P-ND*	11.19	6.72
4			Recept. w/sockets	1.031	.825	—	MS3112E-12-3S-ND*	10.89	6.54
2	12-10	10/20	Plug w/pins	1.013	1.906	.312	MS3116F-12-10P-ND†	21.02	13.72
2			Plug w/sockets	1.013	1.906	.312	MS3116F-12-10S-ND†	19.05	12.44
4			Recept. w/pins	1.031	.825	—	MS3112E-12-10P-ND*	10.05	7.04
4			Recept. w/sockets	1.031	.825	—	MS3112E-12-10S-ND*	17.86	11.66
2	14-12	18/#20, 4/#16	Plug w/sockets	1.156	1.906	.375	MS3116F-14-12S-ND†	25.54	16.35
4			Recept. w/pins	1.125	.825	—	MS3112E-14-12P-ND*	16.40	11.48
2	14-18	18/20	Plug w/sockets	1.156	1.906	.375	MS3116F-14-18S-ND†	32.47	20.78
4			Recept. w/pins	1.125	.825	—	MS3112E-14-18P-ND*	17.72	11.57
2	14-19	19/20	Plug w/sockets	1.156	1.906	.375	MS3116F-14-19S-ND†	32.04	20.51
4			Recept. w/pins	1.125	.825	—	MS3112E-14-19P-ND*	16.65	11.66
2	16-26	26/20	Plug w/sockets	1.281	2.047	.500	MS3116F-16-26S-ND†	31.44	22.01
4			Recept. w/pins	1.219	.825	—	MS3112E-16-26P-ND*	15.15	10.61
2	18-32	32/20	Plug w/pins	1.319	2.078	.625	MS3116F-18-32P-ND†	35.90	25.13
2	20-41	41/20	Plug w/sockets	1.531	2.250	.625	MS3116F-20-41S-ND†	36.98	25.89
2	22-55	55/20	Plug w/pins	1.656	2.250	.750	MS3116F22-55P-ND†	25.61	16.39
4			Recept. w/pins	1.562	1.076	—	MS3112E-22-55P-ND*	24.98	15.99

* Environmental resistant supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires † Grommet seal with strain relief clamp

Aluminum shell components. Standard olive drab, electrically conductive cadmium plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Crimp contacts are included, but not installed. (See contact hand crimping tools and contact installation/removal tools recommended below). Pins and sockets are copper alloy/gold plated.

Strain relief is included on plug.

PT-SE with Crimp Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. in Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
2	10-6	6/20	Plug w/pins	.859	2.413	.188	PT06SE10-6P(SR)-ND*	31.23	19.99
2			Plug w/sockets	.859	2.413	.188	PT06SE10-6S(SR)-ND*	30.06	21.05
9			Recept. w/pins	.954	1.296	—	PT02SE10-6P-ND	28.85	18.47
9			Recept. w/sockets	.954	1.296	—	PT02SE10-6S-ND	31.21	19.98
2	12-10	10/20	Plug w/pins	1.031	2.413	.312	PT06SE12-10P(SR)-ND*	31.64	22.15
2			Plug w/sockets	1.031	2.413	.312	PT06SE12-10S(SR)-ND*	34.73	24.31
9			Recept. w/pins	1.047	1.296	—	PT02SE12-10P-ND	30.27	19.38
9			Recept. w/sockets	1.047	1.296	—	PT02SE12-10S-ND	33.74	21.60
2	16-8	8/16	Plug w/pins	1.281	2.528	.500	PT06SE16-8P(SR)-ND*	45.88	32.12
2			Plug w/sockets	1.281	2.528	.500	PT06SE16-8S(SR)-ND*	51.32	35.93
9			Recept. w/pins	1.234	1.296	—	PT02SE16-8P-ND	40.70	28.49
9			Recept. w/sockets	1.234	1.296	—	PT02SE16-8S-ND	46.13	32.29
2	18-32	32/20	Plug w/pins	1.391	2.528	.625	PT06SE18-32P(SR)-ND*	53.92	37.75
2			Plug w/sockets	1.391	2.528	.625	PT06SE18-32S(SR)-ND*	63.94	44.76
9			Recept. w/pins	1.328	1.296	—	PT02SE18-32P-ND	49.18	34.43
9			Recept. w/sockets	1.328	1.296	—	PT02SE18-32S-ND	59.19	41.43
2	20-16	16/16	Plug w/pins	1.531	2.753	.625	PT06SE20-16P(SR)-ND*	55.75	39.03
2			Plug w/sockets	1.531	2.753	.625	PT06SE20-16S(SR)-ND*	66.19	46.34
9			Recept. w/pins	1.453	1.358	—	PT02SE20-16P-ND	48.93	34.25
9			Recept. w/sockets	1.453	1.358	—	PT02SE20-16S-ND	59.35	41.55
2	22-55	55/20	Plug w/pins	1.656	2.753	.750	PT06SE22-55P(SR)-ND*	74.37	52.07
2			Plug w/sockets	1.656	2.753	.750	PT06SE22-55S(SR)-ND*	91.77	64.24
9			Recept. w/pins	1.578	1.358	—	PT02SE22-55P-ND	66.05	46.24
9			Recept. w/sockets	1.578	1.358	—	PT02SE22-55S-ND	83.42	58.40
2	24-61	61/20	Plug w/pins	1.777	2.830	.800	PT06SE24-61P(SR)-ND*	83.15	58.21
2			Plug w/sockets	1.777	2.830	.800	PT06SE24-61S(SR)-ND*	101.99	71.39
9			Recept. w/pins	1.703	1.358	—	PT02SE24-61P-ND	75.19	52.64
9			Recept. w/sockets	1.703	1.358	—	PT02SE24-61S-ND	94.00	65.80

* (SR) at end of part number designates that a strain relief is included.

Replacement Crimp Contacts

Desc.	Contact Size	Digi-Key Part No.	Price Each		
			1	10	50
Replacement Pin	16	10-314980-16P-ND	1.37	.82	.54
Replacement Pin	20	10-314980-20P-ND	.89	.54	.35
Replacement Socket	16	10-257982-16F-ND	2.24	1.34	.88
Replacement Socket	20	LP-597820-355-ND	1.31	.79	.51

MS with Crimp Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. in Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
2	10-6	6/20	Plug w/pins	—	2.413	.188	MS3126F-10-6P-ND	17.00	11.90
2			Plug w/sockets	—	2.413	.188	MS3126F-10-6S-ND	18.83	12.30
6			Recept. w/pins	.954	2.422	.188	MS3120F-10-6P-ND	14.28	10.00
6			Recept. w/sockets	.954	2.422	.188	MS3120F-10-6S-ND	15.43	10.80
9			Recept. w/pins	.954	1.296	—	MS3122E-10-6P-ND	21.35	13.94
8			Recept. w/sockets	.955	2.422	.188	MS3121F-10-6S-ND	17.17	11.21
2	12-3	3/16	Plug w/sockets	1.031	2.413	.312	MS3126F-12-3S-ND	22.09	14.42
6			Recept. w/pins	1.047	2.422	.312	MS3120F-12-3P-ND	15.08	10.56
9			Recept. w/pins	1.047	1.296	—	MS3122E-12-3P-ND	24.14	15.46
2	12-10	10/20	Plug w/pins	1.031	2.413	.312	MS3126F-12-10P-ND	23.06	15.06
2			Plug w/sockets	1.031	2.413	.312	MS3126F-12-10S-ND	20.83	13.60
7			Recept. w/pins	1.047	1.328	.312	MS3120E-12-10P-ND	22.14	14.45
9			Recept. w/pins	1.047	1.296	—	MS3122E-12-10P-ND	19.97	13.04
9			Recept. w/sockets	1.047	1.296	—	MS3122E-12-10S-ND	24.66	15.79
2	14-5	5/16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-5S-ND	25.90	16.58
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-5P-ND	19.10	12.47
2	14-12	8/#20, 4/#16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-12S-ND	33.94	23.76
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-12P-ND	27.54	17.63
2	14-15	14/#20, 1/#16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-15S-ND	26.21	16.78
2	14-18	18/20	Plug w/sockets	1.156	2.413	.375	MS3126F-14-18S-ND	31.62	22.14
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-18P-ND	32.04	22.43
2	14-19	19/20	Plug w/pins	1.156	2.413	.375	MS3126F-14-19P-ND	22.93	14.68
2			Plug w/sockets	1.156	2.413	.375	MS3126F-14-19S-ND	30.33	19.42
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-19P-ND	25.25	16.16
6			Recept. w/sockets	1.141	2.422	.375	MS3120F-14-19S-ND	16.38	11.47
10			Recept. w/sockets	1.391	1.438	—	MS3124E-14-19S-ND	25.83	16.54
2	16-8	8/16	Plug w/pins	1.281	2.528	.500	MS3126F-16-8P-ND	21.21	13.85
2	16-26	26/20	Plug w/pins	1.281	2.528	.500	MS3126F-16-26P-ND	31.92	22.35
2			Plug w/sockets	1.281	2.528	.500	MS3126F-16-26S-ND	31.86	20.39
9			Recept. w/pins	1.234	1.296	—	MS3122E-16-26P-ND	29.00	18.57
2	18-11	11/16	Plug w/sockets	1.391	2.528	.625	MS3126F-18-11S-ND	25.07	16.05
2	20-16	16/16	Plug w/sockets	1.531	2.753	.625	MS3126F-20-16S-ND	22.02	14.37
2	20-41	41/20	Plug w/sockets	1.531	2.753	.625	MS3126F-20-41S-ND	34.10	23.87
6			Recept. w/sockets	1.453	2.824	.625	MS3120F-20-41S-ND	27.20	17.41
9			Recept. w/pins	1.453	1.358	—	MS3122E-20-41P-ND	36.64	25.65
2	22-55	55/20	Plug w/sockets	1.656	2.753	.750	MS3126F-22-55S-ND	48.50	33.95
9			Recept. w/pins	1.578	1.358	—	MS3122E-22-55P-ND	32.20	22.54
9			Recept. w/sockets	1.578	1.358	—	MS3122E-22-55S-ND	17.08	11.15
2	24-61	61/20	Plug w/sockets	1.777	2.830	.800	MS3126F-24-61S-ND	46.22	32.36

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Contact Size	Hand Crimping Tool MS Tool Part No.				Insertion Tool						Removal Tool			
	Tool Frame	Price Each	Turret Head	Price Each	Production Metal Pliers	Price Each	Prototype Plastic	Price Each	MS Part No.	Price Each	Prototype	Price Each	MS Part No.	Price Each
20	615708-ND	214.86	615709-ND	82.33	ATBX1-8107-20-ND	146.83	ATA1086-ND	20.48	ATML1703B-ND	23.08	AT2020-ND	30.32	M81969/19B-06-ND	30.32
16	615708-ND	214.86	615709-ND	82.33	ATBX1-8107-16-ND	146.83	ATA1101-ND	30.32	ATML1704B-ND	22.61	AT2016-ND	30.32	M81969/19B-01-ND	46.15

Amphenol®

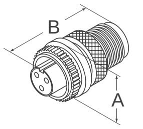
Circular 97 Series Threaded Connectors

with Solder Contacts (MIL-C-5015 Type)

Underwriters Laboratories approved recognition File E115497. Canadian Standard Association Certification File LR69183

Low cost, general duty, non-environmental MIL-C-5015 type connectors. Available in either A solid or B split shell styles. Used extensively in the machine tool industry, welding industry and numerous other commercial applications. • Single key/keyway polarization • Threaded coupling • Hard dielectric inserts made of diallyl-phthalate • Aluminum alloy components with a conductive cadmium plate finish and olive chromate after-treatment • Contacts are solder type, silver plated with pre-tinned solder cups • Cable clamps are zinc alloy with olive drab/green chromate finish

Fig. 1 — Straight Plug (97 Series)



Coupling ring machined from solid aluminum bar stock for high tensile strength. Mates with all types of 97 series receptacles. Front shell includes polarization keyway. Solid shell. Threaded backshell.

Fig. 2 — Straight Plug

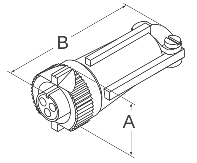
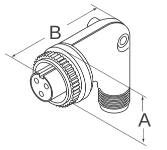
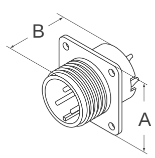


Fig. 3 — Angle Plug (97 Series)



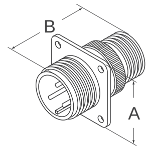
Shell is split longitudinally for convenient solder or inspection. Front shell is keyed to allow the 90 degree angle housing to be rotated and locked at any 45 degree increment.

Fig. 4 — Box Mount Receptacle



Mounting Holes
.147 Dia. sizes 24,28
.120 Dia. all other sizes

Fig. 5 — Wall Mount Receptacle



Mounting Holes
.147 Dia. sizes
24,28.120 Dia.
all other sizes

Fig. 6 — Cable Receptacle

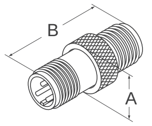


Fig. 7 — Straight Plug

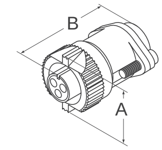


Fig. 8 — Cable Clamp

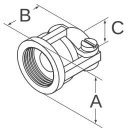
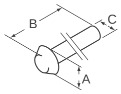


Fig. 9 — Bushing



Insert Patterns
(Front face of pin insert shown. Drawings not to scale.)

CONTACT LEGEND

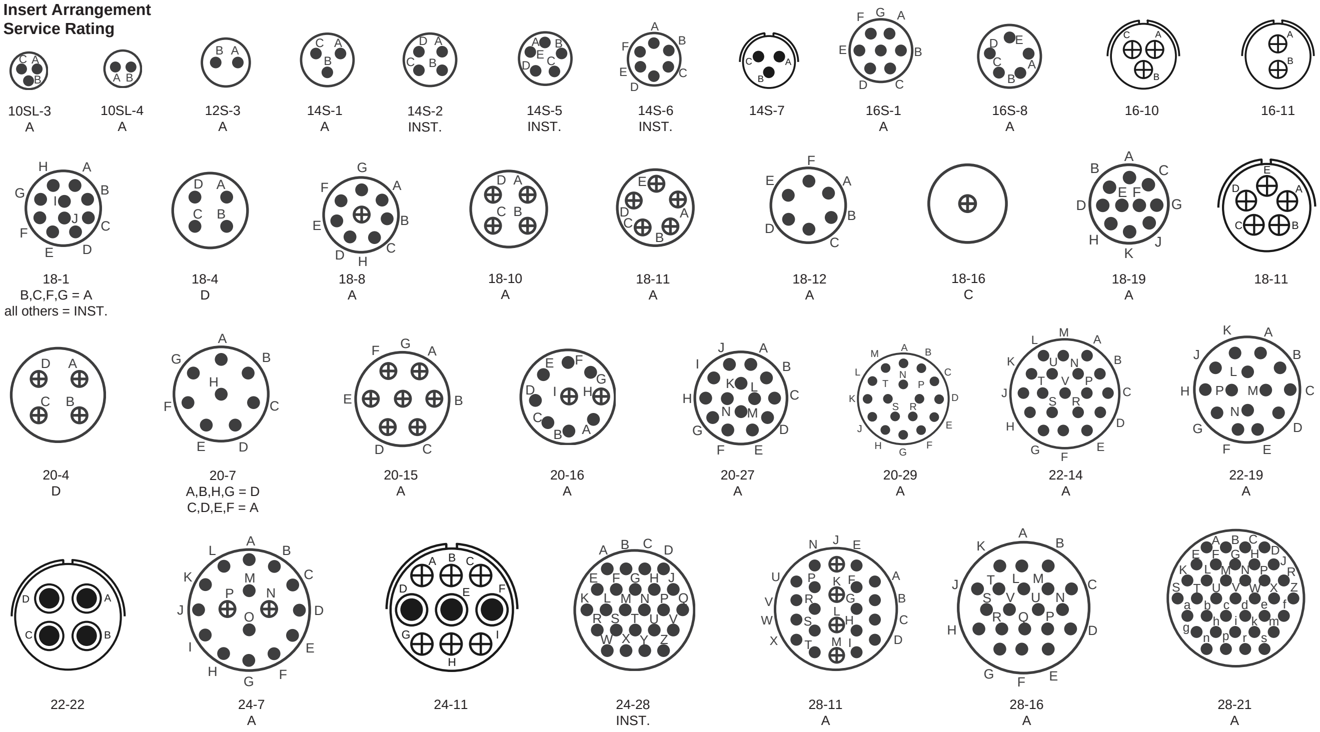
●	⊕	◉
16	12	8

SERVICE RATING:

		INST	A	D	E	B	C
Limited Operating	DC	250	700	1250	1750	2450	4200
Voltages at Sea Level	AC(rms)	200	500	900	1250	1750	3000

TEST CURRENT: Contact Size 16 = 13 amperes, Contact Size 12 = 23 amperes
NOTE: Transients were not considered in calculating these values.
NOTE: Limiting operating voltage at 50,000 feet altitude are approx. 25% of the sea level values.

Insert Arrangement
Service Rating



10SL-3 A
10SL-4 A
12S-3 A
14S-1 A
14S-2 INST.
14S-5 INST.
14S-6 INST.
14S-7
16S-1 A
16S-8 A
16-10
16-11

18-1 B,C,F,G = A all others = INST.
18-4 D
18-8 A
18-10 A
18-11 A
18-12 A
18-16 C
18-19 A
18-11

20-4 D
20-7 A,B,H,G = D C,D,E,F = A
20-15 A
20-16 A
20-27 A
20-29 A
22-14 A
22-19 A

22-22
24-7 A
24-11
24-28 INST.
28-11 A
28-16 A
28-21 A

97 Series Plugs and Receptacles

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10
1	10SL-3	3/16	Plug w/Socket	7/8	1-3/8	97-3106A-10SL-3S-ND	12.00	8.40
3			Plug w/Socket	7/8	1-1/2	97-3108B-10SL-3S-ND	16.03	11.22
4			Recept. w/Pins	1	1-9/32	97-3101A-10SL-3P-ND	14.08	9.86
6			Recept. w/Pins	3/4	1-9/32	97-3102A-10SL-3P-ND	9.69	5.82
1	10SL-4	2/16	Plug w/Socket	7/8	1-3/8	97-3106A-10SL-4S-ND	11.35	7.95
3			Plug w/Socket	7/8	1-1/2	97-3108B-10SL-4S-ND	15.30	10.71
4			Recept. w/Pins	1	1-9/32	97-3102A-10SL-4P-ND	8.91	5.35
6			Recept. w/Pins	1	1-9/32	97-3101A-10SL-4P-ND	13.43	9.40

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10
1	12S-3	2/16	Plug w/Pins	1	1-7/16	97-3106A-12S-3P-ND	10.40	7.28
			Plug w/Socket	1	1-7/16	97-3106A-12S-3S-ND	11.13	7.79
4			Recept. w/Pins	1-3/32	1-15/32	97-3102A-12S-3P-ND	8.27	4.70
			Recept. w/Socket	1-3/32	1-15/32	97-3102A-12S-3S-ND	8.88	5.04
1	14S-1	3/16	Plug w/Pins	1-1/8	1-15/32	97-3106A-14S-1P-ND	10.43	7.30
			Plug w/Socket	1-1/8	1-15/32	97-3106A-14S-1S-ND	12.30	8.61
3			Plug w/Pins	1-1/8	1-23/32	97-3108B-14S-1P-ND	13.93	9.75
			Plug w/Socket	1-1/8	1-23/32	97-3108B-14S-1S-ND	14.28	10.00

(Continued)

97 Series Plugs and Receptacles *(Cont.)*

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. (Inch)		Digi-Key Part No.	Price Each	
				A	B		1	10
5	14S-1	3/16	Recept. w/Pins Recept. w/Socket	1-3/16 1-3/16	1-15/32 1-15/32	97-3100A-14S-1P-ND 97-3100A-14S-1S-ND	12.00 12.30	8.40 8.61
6			Recept. w/Pins Recept. w/Socket	7/8 7/8	1-15/32 1-15/32	97-3101A-14S-1P-ND 97-3101A-14S-1S-ND	14.78 15.00	10.35 10.50
1	14S-2	4/16	Plug w/Pins Plug w/Socket	1-1/8 1-1/8	1-15/32 1-15/32	97-3106A-14S-2P-ND 97-3106A-14S-2S-ND	10.38 12.88	7.27 9.02
3			Plug w/Pins Plug w/Socket	1-1/8 1-1/8	1-23/32 1-23/32	97-3108B-14S-2P-ND 97-3108B-14S-2S-ND	13.80 14.90	9.66 10.43
5			Recept. w/Pins Recept. w/Socket	1-3/16 1-3/16	1-15/32 1-15/32	97-3100A-14S-2P-ND 97-3100A-14S-2S-ND	13.35 12.58	9.35 8.81
6			Recept. w/Pins Recept. w/Socket	7/8 7/8	1-15/32 1-15/32	97-3101A-14S-2P-ND 97-3101A-14S-2S-ND	14.70 15.55	10.29 10.89
1	14S-5	5/16	Plug w/Pins Plug w/Socket	1-1/8 1-1/8	1-15/32 1-15/32	97-3106A-14S-5P-ND 97-3106A-14S-5S-ND	11.60 13.83	8.12 9.68
3			Plug w/Pins Plug w/Socket	1-1/8 1-1/8	1-23/32 1-23/32	97-3108B-14S-5P-ND 97-3108B-14S-5S-ND	15.13 15.55	10.59 10.89
5			Recept. w/Pins Recept. w/Socket	1-3/16 1-3/16	1-15/32 1-15/32	97-3100A-14S-5P-ND 97-3100A-14S-5S-ND	13.35 12.03	9.35 8.42
6			Recept. w/Pins Recept. w/Socket	7/8 7/8	1-15/32 1-15/32	97-3101A-14S-5P-ND 97-3101A-14S-5S-ND	15.85 16.55	11.10 11.59
1	14S-6	6/16	Plug w/Pins Plug w/Socket	1-1/8 1-1/8	1-15/32 1-15/32	97-3106A-14S-6P-ND 97-3106A-14S-6S-ND	12.03 13.95	8.42 9.77
3			Plug w/Pins Plug w/Socket	1-1/8 1-1/8	1-23/32 1-23/32	97-3108B-14S-6P-ND 97-3108B-14S-6S-ND	15.55 15.98	10.89 11.19
5			Recept. w/Pins Recept. w/Socket	1-3/16 1-3/16	1-15/32 1-15/32	97-3100A-14S-6P-ND 97-3100A-14S-6S-ND	12.03 13.83	8.42 9.68
6			Recept. w/Pins Recept. w/Socket	7/8 7/8	1-15/32 1-15/32	97-3101A-14S-6P-ND 97-3101A-14S-6S-ND	16.55 16.93	11.59 11.85
1	16S-1	7/16	Plug w/Pins Plug w/Socket	1-1/4 1-1/4	1-15/32 1-15/32	97-3106A-16S-1P-ND 97-3106A-16S-1S-ND	12.03 15.40	8.42 10.78
4			Recept. w/Pins Recept. w/Socket	1-9/32 1-9/32	1-15/32 1-15/32	97-3102A-16S-1P-ND 97-3102A-16S-1S-ND	11.67 11.88	7.01 7.13
1	16S-8	5/16	Plug w/Pins Plug w/Socket	1-1/4 1-1/4	1-15/32 1-15/32	97-3106A-16S-8P-ND 97-3106A-16S-8S-ND	13.43 13.93	9.40 9.75
4			Recept. w/Pins Recept. w/Socket	1-9/32 1-9/32	1-15/32 1-15/32	97-3102A-16S-8P-ND 97-3102A-16S-8S-ND	11.52 11.97	6.92 7.19
1	18-1	10/16	Plug w/Pins Plug w/Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-1P-ND 97-3106A-18-1S-ND	15.78 17.45	11.05 12.22
3			Plug w/Pins Plug w/Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-1P-ND 97-3108B-18-1S-ND	22.02 24.08	14.37 15.41
4			Recept. w/Pins Recept. w/Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-1P-ND 97-3102A-18-1S-ND	13.25 12.78	9.28 8.95
1	18-4	4/16	Plug w/Pins Plug w/Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-4P-ND 97-3106A-18-4S-ND	14.60 15.75	10.22 11.03
3			Plug w/Pins Plug w/Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-4P-ND 97-3108B-18-4S-ND	18.50 19.74	12.08 12.89
4			Recept. w/Pins Recept. w/Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-4P-ND 97-3102A-18-4S-ND	11.52 10.40	6.92 7.28
1	18-8	4/1#12, 4/7#16	Plug w/Pins Plug w/Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-8P-ND 97-3106A-18-8S-ND	17.24 18.62	11.26 12.16
3			Plug w/Pins Plug w/Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-8P-ND 97-3108B-18-8S-ND	22.02 23.39	14.37 15.27
4			Recept. w/Pins Recept. w/Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-8P-ND 97-3102A-18-8S-ND	13.25 14.48	9.28 10.14
1	18-10	4/12	Plug w/Pins Plug w/Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-10P-ND 97-3106A-18-10S-ND	17.48 18.62	12.24 12.16
3			Plug w/Pins Plug w/Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-10P-ND 97-3108B-18-10S-ND	21.38 23.39	13.95 15.27
4			Recept. w/Pins Recept. w/Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-10P-ND 97-3102A-18-10S-ND	12.30 14.48	8.61 10.14
1	18-11	5/12	Plug w/Pins Plug w/Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-11P-ND 97-3106A-18-11S-ND	17.48 17.24	12.24 11.26
3			Plug w/Pins Plug w/Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-11P-ND 97-3108B-18-11S-ND	21.38 22.02	13.95 14.37
4			Recept. w/Pins Recept. w/Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-11P-ND 97-3102A-18-11S-ND	12.30 11.53	8.61 8.07
1	18-12	6/16	Plug w/Pins Plug w/Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-12P-ND 97-3106A-18-12S-ND	14.33 17.48	10.03 12.24
3			Plug w/Pins Plug w/Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-12P-ND 97-3108B-18-12S-ND	20.26 21.38	13.23 13.95
4			Recept. w/Pins Recept. w/Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-12P-ND 97-3102A-18-12S-ND	11.20 10.70	7.84 7.49
1	18-16	1/12	Plug w/Pins Plug w/Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-16P-ND 97-3106A-18-16S-ND	17.48 19.64	12.24 12.82
3			Plug w/Pins Plug w/Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-16P-ND 97-3108B-18-16S-ND	22.04 24.10	14.39 15.43
4			Recept. w/Pins Recept. w/Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-16P-ND 97-3102A-18-16S-ND	11.73 15.00	8.21 10.50
1	18-19	10/16	Plug w/Pins Plug w/Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-19P-ND 97-3106A-18-19S-ND	22.52 19.21	14.42 12.54
3			Plug w/Pins Plug w/Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-19P-ND 97-3108B-18-19S-ND	27.14 22.70	17.37 14.53
4			Recept. w/Pins Recept. w/Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-19P-ND 97-3102A-18-19S-ND	19.07 13.05	12.45 9.14
1	20-4	4/12	Plug w/Pins Plug w/Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-4P-ND 97-3106A-20-4S-ND	20.16 26.35	13.16 16.87
4			Recept. w/Pins Recept. w/Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-4P-ND 97-3102A-20-4S-ND	12.00 14.78	8.40 10.35
1	20-7	8/16	Plug w/Pins Plug w/Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-7P-ND 97-3106A-20-7S-ND	20.16 21.66	13.16 14.14
4			Recept. w/Pins Recept. w/Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-7P-ND 97-3102A-20-7S-ND	12.00 13.83	8.40 9.68
1	20-15	7/12	Plug w/Pins Plug w/Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-15P-ND 97-3106A-20-15S-ND	22.09 27.70	14.42 17.73
4			Recept. w/Pins Recept. w/Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-15P-ND 97-3102A-20-15S-ND	16.05 20.66	11.24 13.49
1	20-16	9/2#12, 9/7#16	Plug w/Pins Plug w/Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-16P-ND 97-3106A-20-16S-ND	22.11 22.50	14.44 14.40
4			Recept. w/pins Recept. w/socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-16P-ND 97-3102A-20-16S-ND	14.48 15.75	10.14 11.03
1	20-27	14/16	Plug w/Pins Plug w/Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-27P-ND 97-3106A-20-27S-ND	19.78 23.18	12.92 14.84
4			Recept. w/Pins Recept. w/Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-27P-ND 97-3102A-20-27S-ND	14.78 14.75	10.35 10.33
1	20-29	17/16	Plug w/Pins Plug w/Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-29P-ND 97-3106A-20-29S-ND	21.07 25.45	13.75 16.29
4			Recept. w/Pins Recept. w/Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-29P-ND 97-3102A-20-29S-ND	16.60 18.05	11.62 11.78
1	22-14	19/16	Plug w/Pins Plug w/Socket	1-19/32 1-19/32	1-31/32 1-31/32	97-3106A-22-14P-ND 97-3106A-22-14S-ND	24.05 27.32	15.40 17.49
4			Recept. w/Pins Recept. w/Socket	1-5/8 1-5/8	1-63/64 1-63/64	97-3102A-22-14P-ND 97-3102A-22-14S-ND	17.24 21.00	11.26 13.71
1	22-19	14/16	Plug w/Pins Plug w/Socket	1-19/32 1-19/32	1-31/32 1-31/32	97-3106A-22-19P-ND 97-3106A-22-19S-ND	23.58 24.05	15.10 15.40
4			Recept. w/Pins Recept. w/Socket	1-5/8 1-5/8	1-63/64 1-63/64	97-3102A-22-19P-ND 97-3102A-22-19S-ND	16.91 17.24	11.04 11.26
1	24-7	16/2 #12, 16/14 #16	Plug w/Pins Plug w/Socket	1-23/32 1-23/32	2-1/4 2-1/4	97-3106A-24-7P-ND 97-3106A-24-7S-ND	28.46 30.83	18.22 19.73
4			Recept. w/Pins Recept. w/Socket	1-3/4 1-3/4	2-1/4 2-1/4	97-3102A-24-7P-ND 97-3102A-24-7S-ND	20.28 22.75	13.24 14.85
1	24-28	24/16	Plug w/Pins Plug w/Socket	1-23/32 1-23/32	2-1/4 2-1/4	97-3106A-24-28P-ND 97-3106A-24-28S-ND	29.77 33.71	19.06 21.58
4			Recept. w/Pins Recept. w/Socket	1-3/4 1-3/4	2-1/4 2-1/4	97-3102A-24-28P-ND 97-3102A-24-28S-ND	22.06 24.50	14.40 15.69
1	28-11	22/4#12, 22/18#16	Plug w/Pins Plug w/Socket	1-31/32 1-31/32	2-1/4 2-1/4	97-3106A-28-11P-ND 97-3106A-28-11S-ND	32.27 34.66	20.65 24.27
4			Recept. w/Pins Recept. w/Socket	2 2	2-1/4 2-1/4	97-3102A-28-11P-ND 97-3102A-28-11S-ND	22.93 29.48	14.68 18.87
1	28-16	20/16	Plug w/Pins Plug w/Socket	1-31/32 1-31/32	2-1/4 2-1/4	97-3106A-28-16P-ND 97-3106A-28-16S-ND	33.23 33.66	21.27 21.55
4			Recept. w/Pins Recept. w/Socket	2 2	2-1/4 2-1/4	97-3102A-28-16P-ND 97-3102A-28-16S-ND	24.05 24.23	15.40 15.51
1	28-21	37/16	Plug w/Pins Plug w/Socket	1-31/32 1-31/32	2-1/4 2-1/4	97-3106A-28-21P-ND 97-3106A-28-21S-ND	34.54 38.94	24.18 27.26
4			Recept. w/Pins Recept. w/Socket	2 2	2-1/4 2-1/4	97-3102A-28-21P-ND 97-3102A-28-21S-ND	29.27 30.68	18.74 21.48

(Continued)

Amphenol® Circular 97 Series Threaded Connectors
with Solder Contacts (MIL-C-5015 Type) *(Cont.)*

Accessories For 97 Series Connectors

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
8	10SL, 12S	5/16	Cable Clamp	.842	.795	5/16	97-3057-1004-ND	5.76	3.27
9			Bushing	.374	2.875	.210	97-79-513-3-ND	1.12	.67
9			Bushing	.500	2.750	.302	97-79-513-4-ND	1.31	.79
—			Cable Clamp w/Bushing	—	—	—	97-3057-1004-1-ND*	7.00	3.98
8	12SL, 14S	7/16	Cable Clamp	.995	.850	7/16	97-3057-1007-ND	5.58	3.34
9			Bushing	.614	2.625	.427	97-79-513-6-ND	1.27	.76
—			Cable Clamp w/Bushing	—	—	—	97-3057-1007-1-ND	7.07	4.01
8	16,16S	9/16	Cable Clamp	1.120	.920	9/16	97-3057-1008-ND	6.40	3.63
9			Bushing	.739	2.500	.552	97-79-513-8-ND	1.04	.63
—			Cable Clamp w/Bushing	—	—	—	97-3057-1008-1-ND	7.47	4.24
8	18	5/8	Cable Clamp	1.216	.920	5/8	97-3057-1010-ND	5.43	3.08
9			Bushing	.889	2.375	.615	97-79-513-10-ND	1.12	.67
—			Cable Clamp w/Bushing	—	—	—	97-3057-1010-1-ND	6.37	3.61
8	20,22	3/4	Cable Clamp	1.403	.927	3/4	97-3057-1012-ND	5.43	3.08
9			Bushing	1.084	2.250	.740	97-79-513-12-ND	1.23	.74
—			Cable Clamp w/Bushing	—	—	—	97-3057-1012-1-ND	6.50	3.69
8	24,28	15/16	Cable Clamp	1.683	1.015	15/16	97-3057-1016-ND	5.90	3.35
9			Bushing	1.084	2.250	.740	97-79-513-12-ND	1.23	.74
9			Bushing	1.309	2.125	.927	97-79-513-16-ND	1.66	.99
—			Cable Clamp w/Bushing	—	—	—	97-3057-1016-1-ND**	8.38	4.75

* When Clamp and bushing are ordered together for shell sizes 10SL and 12S, bushing 97-79-513-4 will be furnished.

**Two telescoping bushings (97-79-513-12 and 97-79-513-16) are furnished with each cable clamp for shell sizes 24 and 28.

MS/Standard Cylindrical
with Solder Contacts (MIL-C-5015 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. (Inch) A	B	Digi-Key Part No.	Price Each 1	10
2	10SL-3	3/16	Plug w/Socket	.946	2.129	MS3106E-10SL-3S-ND*	14.70	10.29
2		3/16	Plug w/Socket	.946	2.129	MS3106F-10SL-3S-ND†	16.70	11.69
7		3/16	Plug w/Socket	.946	1.057	MS3106R-10SL-3S-ND‡	15.25	10.68
2		3/16	Recept. w/Pins	1.000	.297	MS3102E-10SL-3P-ND*	7.24	4.11
7		3/16	Recept. w/Pins	1.000	.297	MS3102R-10SL-3P-ND‡	6.47	3.67
1	10SL-4	2/16	Plug w/Socket	.946	.937	MS3106A-10SL-4S-ND	15.08	10.56
2	10SL-4	2/16	Plug w/Socket	.946	2.129	MS3106E-10SL-4S-ND*	16.78	11.75
2		2/16	Plug w/Socket	.946	2.129	MS3106F-10SL-4S-ND†	14.88	10.42
2		2/16	Recept. w/Pins	1.000	.297	MS3102E-10SL-4P-ND*	6.60	3.75
7		2/16	Recept. w/Pins	1.000	.297	MS3102R-10SL-4P-ND‡	5.86	3.33
2	14S-2	4/16	Plug w/Pins	1.123	2.201	MS3106F-14S-2P-ND†	12.80	8.96
1		4/16	Plug w/Socket	1.123	.937	MS3106A-14S-2S-ND	11.70	8.19
2		4/16	Plug w/Socket	1.123	2.201	MS3106F-14S-2S-ND†	16.91	11.04
2		4/16	Recept. w/Pins	1.188	.297	MS3102E-14S-2P-ND*	8.82	5.30
2		4/16	Recept. w/Socket	1.188	.297	MS3102E-14S-2S-ND*	8.74	4.96
7		4/16	Recept. w/Pins	1.188	.297	MS3102R-14S-2P-ND‡	5.93	3.37
7		4/16	Recept. w/Socket	1.188	.297	MS3102R-14S-2S-ND‡	8.84	5.02
1	14S-5	5/16	Plug w/Pins	1.123	.937	MS3106A-14S-5P-ND	11.58	8.11
1		5/16	Plug w/Socket	1.123	.937	MS3106A-14S-5S-ND	13.00	9.10
2		5/16	Recept. w/Pins	1.188	.297	MS3102E-14S-5P-ND*	7.67	4.36
7		5/16	Recept. w/Pins	1.188	.297	MS3102R-14S-5P-ND‡	9.08	5.15
1	14S-6	6/16	Plug w/Socket	1.123	.937	MS3106A-14S-6S-ND	13.00	9.10
2		6/16	Plug w/Socket	1.123	2.201	MS3106F-14S-6S-ND†	16.80	11.76
2		6/16	Recept. w/Pins	1.188	.297	MS3102E-14S-6P-ND*	7.84	4.45
2		6/16	Recept. w/Socket	1.188	.297	MS3102E-14S-6S-ND*	9.84	5.91
7		6/16	Recept. w/Pins	1.188	.297	MS3102R-14S-6P-ND‡	5.49	3.12
7		6/16	Recept. w/Socket	1.188	.297	MS3102R-14S-6S-ND‡	9.01	5.12
2	14S-7	3/16	Plug w/Socket	1.123	2.201	MS3106F-14S-7S-ND†	17.05	11.13
1	16S-1	7/16	Plug w/Socket	1.250	.937	MS3106A-16S-1S-ND	15.48	10.84
2		7/16	Plug w/Socket	1.250	2.201	MS3106F-16S-1S-ND†	23.18	15.13
2		7/16	Recept. w/Pins	1.281	.297	MS3102E-16S-1P-ND*	8.49	5.10
7		7/16	Recept. w/Pins	1.281	.297	MS3102R-16S-1P-ND‡	6.80	3.86
1	16-10	3/12	Plug w/Socket	1.250	1.124	MS3106A-16-10S-ND	16.53	11.57
2		3/12	Plug w/Socket	1.250	2.524	MS3106F-16-10S-ND†	23.00	14.72
7	16-11	2/12	Recept. w/Pins	1.281	.484	MS3102R-16-11P-ND‡	6.83	3.88
2	18-1	10/16	Recept. w/Pins	1.375	.453	MS3102E-18-1P-ND*	10.20	6.12
7		10/16	Recept. w/Pins	1.375	.453	MS3102R-18-1P-ND‡	10.14	6.09
1		10/16	Plug w/Socket	1.333	1.219	MS3106A-18-1S-ND	18.12	11.83
2	18-11	5/12	Recept. w/Pins	1.375	.453	MS3102E-18-11P-ND*	8.68	4.93
7	20-27	14/16	Recept. w/Pins	.453	1.500	MS3102R-20-27P-ND‡	10.80	6.48
2	22-14	19/16	Recept. w/Pins	.453	1.625	MS3102E-22-14P-ND*	11.43	6.86
2	22-19	14/16	Recept. w/Socket	.453	1.625	MS3102E-22-19S-ND*	12.00	8.40
2	22-22	4/8	Recept. w/Pins	.453	1.625	MS3102E-22-22P-ND*	14.90	10.43
7	24-11	3/#8 6/#12	Recept. w/Pins	.453	1.750	MS3102R-24-11P-ND‡	11.65	8.16
			Plug w/Socket	1.291	1.715	MS3106R-24-11S-ND‡	23.83	15.25

* Environmental resisting

† Environmental resisting with strain relief (MS part number only)

‡ Lightweight environmental resisting

NEW! Ethernet Connection System for Harsh Environments

With the patented RJStop® system you can use a standard RJ45 cordset in a protective composite plug (RJF 544 Series) or metalic plug (RJField Series which will protect it from shocks, dust, and fluids. No hazardous in-field cabling and grounding. The RJField allows you to use an Ethernet Class D / Cat. 5e connection for 10 BaseT, 100 Base TX or 1000 BaseT networks in harsh environments:

Fig. 1 — Receptacle

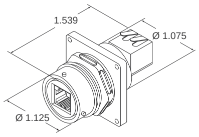


Fig. 2 — Plug Housing

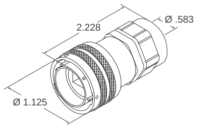


Fig. 3 — Receptacle

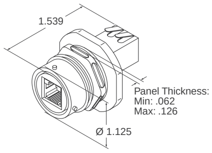


Fig. 4 — Plug Housing

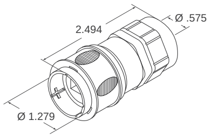
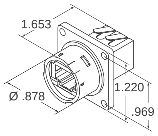


Fig. 5 — Receptacle



RJField Series

Features: • Sealed against fluids and dusts (IP67) • Shock, vibration and traction resistant • No cabling operation in field and no tools required • Mechanical Coding/Polarization (4 positions)

Characteristics:

Data Transmission: 10 BaseT, 100 BaseTX and 1000 BaseT networks Cat 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801 **Mechanical:** • Bayonet Coupling ("Audible & Visual" coupling signal) • 4 mechanical Coding / Polarization possibilities by the user (insert rotation) • RJ45 cordset retention in the plug: 100 N in the axis • Mating cycles: 500 min. **Environmental Protection:** • Sealing: IP67 with recommended 5 to 12 mm cable diameter • Salt Spray: 96 h with black coating. • Fire Retardant / Low Smoke: UL94V-0 and NF F 16 101, & 16 102 • Vibrations: 10-500 Hz, 10 g, 3 axes: no discontinuity > 1 nano s • Shocks: IK06: drop of a 250 g weight from 40 cm (15.75 in.) height onto mated pair of connectors • Humidity: 21 days, 43°C, 98% humidity • Thermal Shock: 5 cycles at -40°C to +100°C • Temperature Range: -40°C to +85°C

RJF 544 Series

Features: • Sealed against fluids and dusts (IP67) • Shock, vibration and traction resistant • No cabling operation in field and no tools required • Improved EMI protection

Characteristics:

Data Transmission: 10 BaseT, 100 BaseTX and 1000 BaseT networks Cat 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801. **Mechanical:** • Quick Push-Pull coupling. • RJ45 cordset retention in the plug: 100 N in the axis. • Mating cycles: 500 min. **Environmental Protection:** • Sealing: IP67 with recommended 5 to 12 mm cable diameter • Salt Spray 1000 h. • Fire Retardant / Low Smoke: UL94V-0 and NFF 16102, DIN 5510-2. • Vibrations: 10-500 HZ, 10 g, 3 axes: no discontinuity > 10 nano s. • Thermal Shock: 5 cycles at -40°C to +100°C. • Operating Temperature: -40°C to +85°C

FIg.	Description	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
	RJField Series (Bayonet Lock)					
1	Receptacle	RJF21B-ND	32.40	20.74	18.36	RJF 21 B
—	Panel Gasket	JE18-ND	2.02	1.21	.79	JE18
2	Plug Housing	RJF6B-ND	31.71	20.30	17.97	RJF 6 B
3	Receptacle	RJF71B-ND	43.17	30.22	26.99	RJF 71 B
—	Cap for Receptacle	RJFC2B-ND	26.68	17.08	15.12	RJF C 2 B
—	Cap for Plug Housing	RJFC6B-ND	28.90	18.50	16.38	RJF C 6 B
—	Cap for Receptacle Housing	RJFC7B-ND	30.19	21.14	18.87	RJF C 7 B
—	Insert and Removal Tool	RJFODE-ND	29.30	18.75	16.61	RJF ODE
	RJF 544 Series (Push-Pull Lock)					
4	Plug Housing	RJF5446-ND	15.09	10.57	7.85	RJF 544 6
5	Receptacle	RJF54421-ND	19.30	12.60	10.57	RJF 544 21
—	Panel Gasket	54402JE-ND	1.41	.85	.55	544 02 JE
—	Cap for Plug Housing	54402BM-ND	17.07	11.14	9.35	544 02 BM
—	Cap for Receptacle	54402BE-ND	17.07	11.14	9.35	544 02 BE
—	Plug Insert Removal Tool	5440OT02-ND	10.20	7.14	5.31	5440 OT 02

Amphenol® C 091 A Circular Connectors

Features/Specifications:

- Metal threaded coupling
- Number of contacts are 3 to 8, 12 and 14
- Internal metal strain relief with half shell construction and snap-in latching
- Complete EMI shielding in fully mated and locked position
- The connectors are registered under File # E 63 093 UL
- Contact plating is silver
- Male and female cable connectors: solder in 3 to 8, 12, 14 positions; crimp in 3 to 8 positions; cable entry straight or right-angled; metal coupling nickel plated or plastic coated
- Male and female receptacles for panel mount: solder in 3 to 8, 12, 14 positions
- Solder termination

Fig. 1 Cable Mount Male (Solder Type)

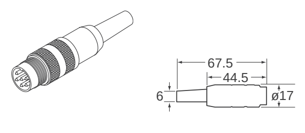


Fig. 2 Cable Mount Female (Solder Type)

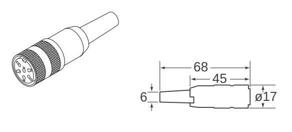
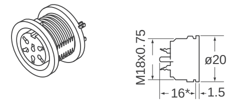
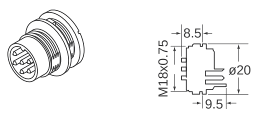


Fig. 3 Panel Mount Receptacle Female



*14mm for parts with 12 or 14 contacts

Fig. 4 Panel Mount Receptacle Male



No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
Fig. 1 Cable Mount Male					
3 DIN	361-1044-ND	7.54	6.38	5.37	T3260 001
4 IEC	361-1045-ND	7.72	6.54	5.50	T3300 001
5	361-1046-ND	7.90	6.69	5.63	T3360 001
5 S DIN	361-1047-ND	8.69	7.56	6.81	T3360 010
6 DIN	361-1048-ND	8.22	6.96	5.85	T3400 001
7	361-1049-ND	8.40	7.11	5.98	T3475 001
8 DIN	361-1050-ND	8.74	7.40	6.22	T3504 001
12	361-1051-ND	13.04	12.28	11.13	T3635 001
14	361-1052-ND	13.96	13.14	11.91	T3650 001
Fig. 2 Cable Mount Female					
3 DIN	361-1053-ND	8.55	7.24	6.09	T3261 001
4 IEC	361-1054-ND	8.84	7.48	6.29	T3301 001
5	361-1055-ND	8.97	7.59	6.39	T3361 001
5 S DIN	361-1056-ND	9.29	8.08	7.28	T3361 010
6 DIN	361-1057-ND	8.23	7.16	6.45	T3401 001
7	361-1058-ND	8.40	7.30	6.57	T3476 001
8 DIN	361-1059-ND	10.42	9.06	8.16	T3505 001
12	361-1060-ND	14.06	13.01	11.67	T3636 001
14	361-1061-ND	12.94	12.18	11.04	T3651 001

No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
Fig. 3 Receptacle Panel Mount Female					
3 DIN	361-1062-ND	4.64	3.84	3.20	T3263 000
4 IEC	361-1063-ND	4.96	4.11	3.42	T3303 000
5	361-1064-ND	5.10	4.23	3.52	T3363 000
5 S DIN	361-1065-ND	6.90	5.72	4.76	T3363 010
6 DIN	361-1066-ND	5.48	4.54	3.78	T3403 000
7	361-1067-ND	5.68	4.71	3.92	T3478 000
8 DIN	361-1068-ND	7.36	6.23	5.24	T3507 000
12	361-1069-ND	11.10	10.27	9.22	T3638 000
14	361-1070-ND	12.26	11.35	10.18	T3653 000
Fig. 4 Receptacle Panel Mount Male					
3 DIN	361-1071-ND	4.15	3.44	2.86	T3262 000
4 IEC	361-1072-ND	4.35	3.60	3.00	T3302 000
5	361-1073-ND	4.58	3.80	3.16	T3362 000
5 S DIN	361-1074-ND	6.67	5.52	4.60	T3362 010
6 DIN	361-1075-ND	4.90	4.06	3.38	T3402 000
7	361-1076-ND	5.10	4.23	3.52	T3477 000
8 DIN	361-1077-ND	5.54	4.59	3.82	T3506-000

C 16-1 Circular Connectors

The circular connectors of the C 16-1 series are designed to meet the high requirements of industrial applications under harsh environmental conditions.

Specifications:

4 Position: • **Number of Contacts:** 4 (3 + PE) • **Termination:** Screw • **Wire Gauge:** AWG 14 • **Rated Insulation Voltage:** 400V • **Current Carrying Capacity:** 16A • **Protection Class:** IP 67

7 Position • **Number of Contacts:** 7 (6 + PE) • **Termination:** Solder • **Wire Gauge:** AWG 18 • **Rated Insulation Voltage:** 250V • **Current Carrying Capacity:** 10A • **Protection Class:** IP 67 • **Contact Plating:** silver

Features:

- Circular connectors with contact arrangements 3 + PE and 6 + PE for power and signal applications
- Applications in machine tools, measurement and control, process technology and medical equipment
- Housing are made from high grade plastic material
- Protected against unlocking by threaded coupling
- Protection degree IP 67 per IEC 60529 in mated condition
- Internal strain relief with screw clamp or clamping ring provides a safe cable restrain

Fig. 1 Cable Mount Male

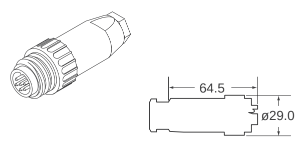


Fig. 2 Cable Mount Male Right Angle

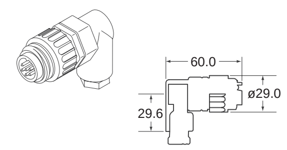


Fig. 3 Panel Mount Receptacle Female

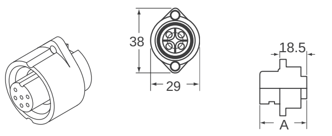


Fig. 4 Cable Mount Female

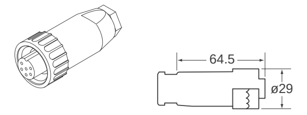


Fig. 5 Cable Mount Female Right Angle

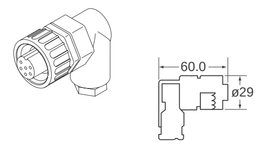


Fig. 6 Panel Mount Receptacle Male

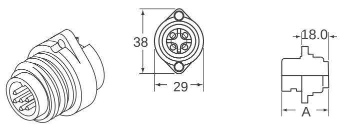


Fig. 7 Protective Cap for Fig. 6

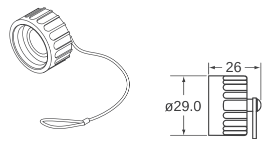
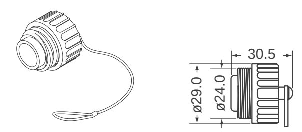


Fig. 8 Protective Cap for Fig. 3



No. of Pos.	Cable Outlet*	Dim. A mm	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
Fig. 1 Cable Mount Male							
4	PG 9	—	361-1026-ND	7.72	6.54	5.50	T3108 001
4	PG 11	—	361-1027-ND	7.88	6.67	5.61	T3108 101
7	PG 9	—	361-1034-ND	8.56	7.44	6.70	T3104 001
7	PG 11	—	361-1035-ND	8.69	7.56	6.81	T3104 101
Fig. 2 Cable Mount Male Right Angle							
4	PG 9	—	361-1028-ND	11.16	10.33	9.27	T3108 081
7	PG 9	—	361-1036-ND	12.28	11.36	10.20	T3104 081
Fig. 3 Receptacle Female							
4	—	32	361-1032-ND	6.90	5.72	4.76	T3111 000
7	—	30.7	361-1040-ND	8.94	7.57	6.37	T3107 000
Fig. 4 Cable Mount Female							
4	PG 9	—	361-1029-ND	8.42	7.13	6.00	T3109 001
4	PG 11	—	361-1030-ND	8.58	7.26	6.11	T3109 101

No. of Pos.	Cable Outlet*	Dim. A mm	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
Fig. 4 Cable Mount Female							
7	PG 9	—	361-1037-ND	9.89	8.60	7.74	T3105 001
7	PG 11	—	361-1038-ND	10.03	8.72	7.85	T3105 101
Fig. 5 Cable Mount Female Right Angle							
4	PG 9	—	361-1031-ND	11.90	11.01	9.88	T3109 081
7	PG 9	—	361-1039-ND	13.62	12.60	11.31	T3105 081
Fig. 6 Receptacle Male							
4	—	32	361-1033-ND	6.09	5.04	4.20	T3110 000
7	—	30	361-1041-ND	7.51	6.36	5.35	T3106 000
Fig. 7 Protective Cap for Fig. 6							
—	—	—	361-1042-ND	7.02	5.94	5.00	T6482 001
Fig. 8 Protective Cap for Fig. 3							
—	—	—	361-1043-ND	6.60	5.59	4.70	T6483 001

* PG9 — 6-8mm with gland bushing and clamping ring; 8-10mm with gland bushing but without clamp ring
PG11 — 8-10mm with gland bushing and clamping ring; 10-12mm with gland bushing but without clamp ring

conxall

Field Installable Connectors

A Switchcraft Company

Conxall was an innovator in the design of all plastic cylindrical connectors. The all plastic connector provides for substantial savings in cost without sacrificing performance and quality.

The all plastic connector is corrosion resistant, non-conductive and withstands substantial abuse, hostile environments, and heavy impacts that would otherwise cause metal connectors to corrode, deform or become electrically conductive and thus become unusable or unsafe.

Specifications:
• Voltage: 600V • Temperature Rating: -55°C to +125°C (-67°F to +257°F) • Contacts: Brass, gold over nickel • Watertight: NEMA 6P, 13: IEC IP67 • UL Recognized: File #E138878 - 250V • CSA Certified: File #LR89277 - 600V

Micro-Con-X®: • Rating: 3.0 thru 7.5A, 600V • Conductor Size: 20 thru 24 AWG

Mini-Con-X®: • Rating: 4.8 thru 13.0A, 600V • Conductor Size: 20 thru 24 AWG

Multi-Con-X®: • Rating: 1.95 thru 23.0A, 600V • Conductor Size: #12 Contacts, 12 thru 14 AWG; #20 Contacts, 20 thru 24 AWG
Note: Contact size is determined by the second digit of Conxall part number: 1=#12, 2=#20

Maxi-Con-X®: • Rating: 1.35 thru 13.0A, 600V • Conductor Size: #12 Contacts, 12 thru 14 AWG; #16 Contacts, 16 thru 18 AWG; #20 Contacts, 20 thru 24 AWG
Note: Contact size is determined by the second digit of Conxall part number: 1=#12, 2=#20, 3=#16

Fig. 1
(Mates with Fig. 4 and 6)

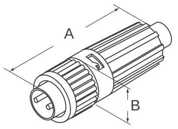


Fig. 2
(Mates with Fig. 3 and 5)

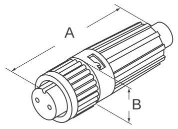


Fig. 3
(Mates with Fig. 2)

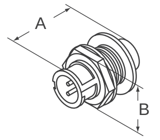
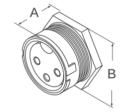
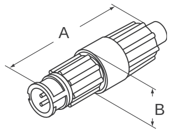


Fig. 4
(Mates with Fig. 1)



Shown with Female Insert

Fig. 5
(Mates with Fig. 2)



Shown with Male Insert

Fig. 6
(Mates with Fig. 1)

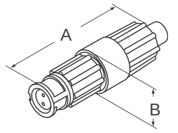


Fig. 7
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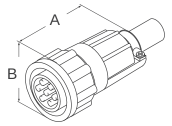

Fig. 8
(Mates with Fig. 9 and 11)

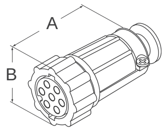

Fig. 9
(Mates with Fig. 8)

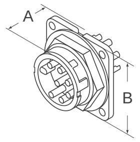

Fig. 10
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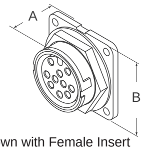

Shown with Female Insert

Fig. 11
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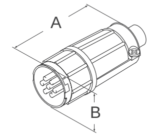
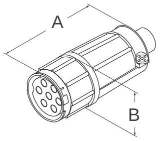


Shown with Male Insert

Fig. 12
(Mates with Fig. 7)



Micro-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.29	.530	0.14	SC1202-ND	3.21	2.40	2.20	16282-2PG-311
3				SC1204-ND	3.76	2.82	2.59	16282-3PG-311
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.29	.530	0.14	SC1203-ND	3.70	2.78	2.54	16282-2SG-311
3				SC1205-ND	4.52	3.39	3.11	16282-3SG-311
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.715	.715	—	SC1206-ND	2.35	1.76	1.62	17282-2PG-300
3				SC1208-ND	2.90	2.18	2.00	17282-3PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.715	.715	—	SC1207-ND	3.00	2.25	2.06	17282-2SG-300
3				SC1209-ND	3.74	2.81	2.57	17282-3SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.32	.500	0.14	SC1210-ND	2.23	1.67	1.53	18282-2PG-311
3				SC1212-ND	3.41	2.55	2.34	18282-3PG-311
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.32	.500	0.14	SC1211-ND	3.52	2.64	2.42	18282-2SG-311
3				SC1213-ND	4.34	3.25	2.98	18282-3SG-311

Mini-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.315	.715	0.250	SC1262-ND	3.31	2.48	2.27	6282-2PG-3DC
3				SC1264-ND	3.86	2.90	2.66	6282-3PG-3DC
4				SC1266-ND	4.39	3.29	3.02	6282-4PG-3DC
5				SC1268-ND	4.90	3.67	3.37	6282-5PG-3DC
6				SC1270-ND	5.39	4.04	3.70	6282-6PG-3DC
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.315	.715	0.250	SC1263-ND	3.97	2.98	2.73	6282-2SG-3DC
3				SC1265-ND	4.79	3.59	3.29	6282-3SG-3DC
4				SC1267-ND	5.58	4.18	3.84	6282-4SG-3DC
5				SC1269-ND	6.35	4.76	4.36	6282-5SG-3DC
6				SC1271-ND	7.10	5.32	4.88	6282-6SG-3DC
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.675	.924	—	SC1272-ND	2.37	1.78	1.63	7282-2PG-300
3				SC1274-ND	2.93	2.19	2.01	7282-3PG-300
4				SC1276-ND	3.45	2.59	2.37	7282-4PG-300
5				SC1278-ND	3.95	2.96	2.71	7282-5PG-300
6				SC1280-ND	4.43	3.32	3.05	7282-6PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.675	.924	—	SC1273-ND	2.81	2.10	1.93	7282-2SG-300
3				SC1275-ND	3.55	2.66	2.44	7282-3SG-300
4				SC1277-ND	4.27	3.20	2.93	7282-4SG-300
5				SC1279-ND	4.96	3.72	3.41	7282-5SG-300
6				SC1281-ND	5.64	4.23	3.88	7282-6SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.395	.625	0.250	SC1282-ND	3.63	2.72	2.49	8282-2PG-3DC
3				SC1284-ND	4.18	3.14	2.88	8282-3PG-3DC
4				SC1286-ND	4.71	3.53	3.24	8282-4PG-3DC
5				SC1288-ND	5.22	3.91	3.59	8282-5PG-3DC
6				SC1290-ND	5.71	4.28	3.92	8282-6PG-3DC

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.395	.625	0.250	SC1283-ND	4.07	3.06	2.80	8282-2SG-3DC
3				SC1285-ND	4.90	3.67	3.37	8282-3SG-3DC
4				SC1287-ND	5.69	4.26	3.91	8282-4SG-3DC
5				SC1289-ND	6.45	4.84	4.44	8282-5SG-3DC
6				SC1291-ND	7.21	5.40	4.95	8282-6SG-3DC

Multi-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.57	.875	0.250	SC1214-ND	4.54	3.41	3.12	3182-2PG-3DC
3				SC1216-ND	5.36	4.02	3.68	3182-3PG-3DC
4				SC1218-ND	5.11	3.83	3.51	3282-4PG-3DC
5				SC1220-ND	5.61	4.21	3.86	3282-5PG-3DC
6				SC1222-ND	6.10	4.58	4.19	3282-6PG-3DC
7				SC1224-ND	6.58	4.93	4.52	3282-7PG-3DC
8				SC1226-ND	7.05	5.28	4.84	3282-8PG-3DC
9				SC1228-ND	7.50	5.63	5.16	3282-9PG-3DC
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.57	.875	0.250	SC1215-ND	5.65	4.24	3.88	3182-2SG-3DC
3				SC1217-ND	6.82	5.11	4.69	3182-3SG-3DC
4				SC1219-ND	6.56	4.92	4.51	3282-4SG-3DC
5				SC1221-ND	7.33	5.50	5.04	3282-5SG-3DC
6				SC1223-ND	8.08	6.06	5.56	3282-6SG-3DC
7				SC1225-ND	8.82	6.62	6.07	3282-7SG-3DC
8				SC1227-ND	9.55	7.16	6.57	3282-8SG-3DC
9				SC1229-ND	10.27	7.70	7.06	3282-9SG-3DC
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.625	1.155	—	SC1230-ND	3.34	2.51	2.30	4182-2PG-300
3				SC1232-ND	4.16	3.12	2.86	4182-3PG-300
4				SC1234-ND	3.89	2.92	2.67	4282-4PG-300
5				SC1236-ND	4.39	3.29	3.02	4282-5PG-300
6				SC1238-ND	4.87	3.66	3.35	4282-6PG-300
7				SC1240-ND	5.35	4.01	3.67	4282-7PG-300
8				SC1242-ND	5.81	4.35	3.99	4282-8PG-300
9				SC1244-ND	6.26	4.69	4.30	4282-9PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.625	1.155	—	SC1231-ND	4.03	3.03	2.77	4182-2SG-300
3				SC1233-ND	5.20	3.90	3.58	4182-3SG-300
4				SC1235-ND	4.65	3.49	3.20	4282-4SG-300
5				SC1237-ND	5.48	4.11	3.77	4282-5SG-300
6				SC1239-ND	6.02	4.51	4.14	4282-6SG-300
7				SC1241-ND	6.68	5.01	4.60	4282-7SG-300
8				SC1243-ND	7.48	5.61	5.14	4282-8SG-300
9				SC1245-ND	8.12	6.09	5.58	4282-9SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.65	.766	0.250	SC1246-ND	4.48	3.36	3.08	5182-2PG-3DC
3				SC1248-ND	5.30	3.97	3.64	5182-3PG-3DC
4				SC1250-ND	5.05	3.78	3.47	5282-4PG-3DC
5				SC1252-ND	5.55	4.16	3.82	5282-5PG-3DC
6				SC1254-ND	6.04	4.53	4.15	5282-6PG-3DC
7				SC1256-ND	6.39	4.79	4.39	5282-7PG-3DC
8				SC1258-ND	6.85	5.14	4.71	5282-8PG-3DC
9				SC1260-ND	7.31	5.48	5.03	5282-9PG-3DC

(Continued)

conxall Field Installable Connectors *(Cont.)*

A Switchcraft Company

Multi-Con-X® Series *(Cont.)*

No. of Pos.	Dim. (Inch) A	Dim. (Inch) B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Conxall Part No.
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.65	.766	0.250	SC1247-ND	5.21	3.91	3.58	5182-2SG-3DC
3				SC1249-ND	6.38	4.78	4.38	5182-3SG-3DC
4				SC1251-ND	6.12	4.59	4.21	5282-4SG-3DC
5				SC1253-ND	6.89	5.17	4.74	5282-5SG-3DC
6				SC1255-ND	7.51	5.63	5.16	5282-6SG-3DC
7				SC1257-ND	8.25	6.19	5.67	5282-7SG-3DC
8				SC1259-ND	8.98	6.74	6.17	5282-8SG-3DC
9				SC1261-ND	9.70	7.28	6.67	5282-9SG-3DC

Maxi-Con-X® Series

No. of Pos.	Dim. (Inch) A	Dim. (Inch) B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Conxall Part No.
Fig. 7 — Cable Pin – Plug with Male Insert								
7	2.0	1.06	.30	SC1184-ND	10.15	7.61	6.98	13182-7PG-326
10				SC1188-ND	10.54	7.91	7.25	13382-10PG-326
18				SC1186-ND	12.42	9.32	8.54	13282-18PG-326

No. of Pos.	Dim. (Inch) A	Dim. (Inch) B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Conxall Part No.
Fig. 8 — Cable Socket – with Female Insert								
7	2.0	1.06	.30	SC1185-ND	12.26	9.19	8.43	13182-7SG-326
10				SC1189-ND	13.39	10.04	9.20	13382-10SG-326
18				SC1187-ND	17.28	12.96	11.88	13282-18SG-326
Fig. 9 — Panel Mount Receptacle with Male Insert								
7	.670	1.25	—	SC1190-ND	7.32	5.49	5.03	14182-7PG-300
10				SC1194-ND	7.98	5.98	5.48	14382-10PG-300
18				SC1192-ND	10.19	7.65	7.01	14282-18PG-300
Fig. 10 — Panel Mount Receptacle with Female Insert								
7	.670	1.25	—	SC1191-ND	10.01	7.51	6.88	14182-7SG-300
10				SC1195-ND	10.22	7.67	7.03	14382-10SG-300
18				SC1193-ND	13.91	10.43	9.56	14282-18SG-300
Fig. 11 — Cable to Cable – Cable Mount Socket with Male Insert								
7	2.0	1.06	.30	SC1196-ND	8.98	6.73	6.17	15182-7PG-326
10				SC1200-ND	10.07	7.55	6.92	15382-10PG-326
18				SC1198-ND	11.95	8.96	8.22	15282-18PG-326
Fig. 12 — Cable to Cable – Cable Mount Socket with Female Insert								
7	2.0	1.06	.30	SC1197-ND	11.21	8.41	7.71	15182-7SG-326
10				SC1201-ND	12.56	9.42	8.64	15382-10SG-326
18				SC1199-ND	16.45	12.34	11.31	15282-18SG-326

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conxall SENSOR-LINK

A Switchcraft Company

Molded Single Ended Cable Assemblies and Panel Mount Receptacles with Wire Leads

Fig. 1

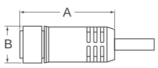


Fig. 2

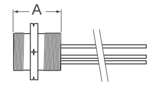


Fig. 3

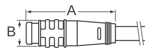


Fig. 4

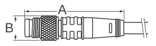


Fig. 5

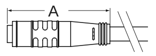


Fig. 6

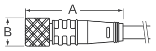


Fig. 7

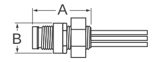
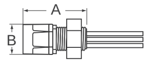


Fig. 8



Features:

Designed to meet or exceed the requirements of UL, CSA, NEMA, ANSI, IEC and SAE, the Sensor-Link series is intermateable and intermountable with other manufacturers equivalents.

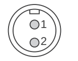
Mini-Mizer® "A" Size Specifications:

• Voltage: 600V • Contacts: Copper alloy, gold-plated • Cable: 16 AWG, PVC Insulated, 600V, 105°C • Overmold: Polyurethane • Operating Ambient Temperature: -20°C to 80°C

Nano-Mizer® Specifications:

• Voltage: 300V, 4 Amps • Contacts: Copper alloy, gold-plated • Cable: .25mm (or approximately 22 AWG) PVC insulated • Operating Ambient Temperature: -20°C to 105°C

A



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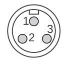

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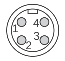

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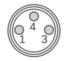

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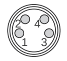


Fig.	No. of Pos.	Description	Length (Feet)	Dim. - (Inch) A	Dim. - (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 25	Conxall Part No.
Mini-Mizer® "A" Size									
1A	2	Female	6	2.25	1.0	SC1293-ND	15.28	12.10	162S72
			12	2.25	1.0	SC1292-ND	18.40	14.57	162S144
1B	3	Female	6	2.25	1.0	SC1295-ND	18.08	14.31	163S72
			12	2.25	1.0	SC1294-ND	22.06	17.46	163S144
1C	4	Female	12	2.25	1.0	SC1296-ND	24.94	19.74	164S144
2A	2	Male	1	1.0	—	SC1297-ND	7.72	6.11	172P12
2B	3		1	1.0	—	SC1298-ND	8.94	7.08	173P12
2C	4		1	1.0	—	SC1299-ND	10.04	7.95	174P12
Nano-Mizer® Series									
3D	3	Male	6	1.16	.328	SC1300-ND	6.80	5.31	603PS2
3E	4		6	1.16	.328	SC1304-ND	7.92	6.19	604PS2
4D	3	Male	6	1.575	.390	SC1301-ND	8.12	6.34	603PT2
4E	4		6	1.575	.390	SC1305-ND	9.24	7.22	604PT2
5D	3	Female	6	1.305	—	SC1302-ND	7.40	5.78	603SS2
5E	4		6	1.305	—	SC1306-ND	8.72	6.81	604SS2
6D	3	Female	6	1.38	.390	SC1303-ND	10.72	8.38	603ST2
6E	4		6	1.38	.390	SC1307-ND	12.04	9.41	604ST2
7D	3	Male	1	.750	.4375	SC1308-ND	7.64	5.98	613P.3
7E	4		1	.750	.4375	SC1310-ND	8.36	6.54	614P.3
8D	3	Female	1	.800	.367	SC1309-ND	9.22	7.20	613S.3
8E	4		1	.800	.367	SC1311-ND	10.08	7.88	614S.3

Switchcraft® EN3 Weathertight Connectors

Fig. 1

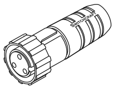


Fig. 2

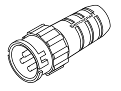


Fig. 3

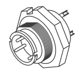
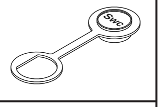
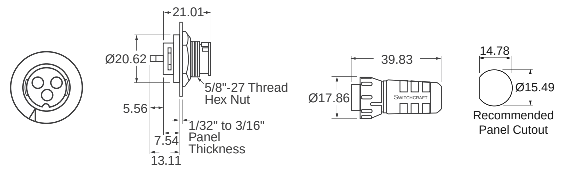


Fig. 4





Features and Benefits: • Housing rated UL 94V-O against flammability • Contact terminal: Solder Cup Contacts • Panel Connector Shell features a positioning keyway to prevent misalignments • No Grommets. Cable clamp assembly features living hinges, which snap easily onto and holds the cable • Choose cord plug or panel mount • 2-8 pins • Exceeds Coast Guard specifications for water tightness (CFR 46 Part 110.20) • Optional cap covers the panel housing assembly when not in use

Applications: • Process control • Marine electronics • Medical instrumentation • Geothermal instrumentation • Communication • Transportation • General industrial electronics

Specifications: • Mechanical: Shock: Mil-Std. 202 method 213B, condition K • Vibration: Mil-Std 202 Method 201 • Life 600 insertion/withdrawal cycles (min.) **Electrical:** Voltage Rating (sea level): • Tested at 600 VRMS • Insulation Resistance: 100 Megohms (min.) at 77°F (25°C) • Contact Resistance: 3.0 Millohms (max.) • Current Rating: 7.5 Amps (#20 contact) **Environmental:** • Temperature Limits: -40°C to +65°C (non-operating) • Moisture Resistance: Mil-Std 202 Method 106F • Insulation Resistance: Mil-Std 202 Method 302, condition B • Thermal Shock: Mil-Std 202 Method 107G • Salt Spray: Mil-Std 202 Method 101D, condition B • Water Tightness Test: U.S. Coast Guard CFR 46 Part 110.20

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Switchcraft Part No.
Plugs							
1	3	Female	SC1156-ND	4.88	3.66	3.36	EN3C3F
		Male	SC1157-ND	3.52	2.64	2.42	EN3C3M
	4	Female	SC1158-ND	5.84	4.38	4.02	EN3C4F
		Male	SC1159-ND	4.04	3.03	2.78	EN3C4M
	5	Female	SC1160-ND	6.80	5.10	4.68	EN3C5F
		Male	SC1161-ND	4.64	3.48	3.19	EN3C5M
	6	Female	SC1162-ND	7.76	5.82	5.34	EN3C6F
		Male	SC1163-ND	5.16	3.87	3.55	EN3C6M
	8	Female	SC1164-ND	9.72	7.29	6.68	EN3C8F
In-Line Receptacles							
2	3	Female	SC1175-ND	4.76	3.57	3.27	EN3L3F
		Male	SC1176-ND	3.44	2.58	2.37	EN3L3M
	4	Female	SC1177-ND	5.68	4.26	3.91	EN3L4F
		Male	SC1178-ND	3.92	2.94	2.70	EN3L4M
	5	Female	SC1179-ND	6.60	4.95	4.54	EN3L5F
		Male	SC1180-ND	4.52	3.39	3.11	EN3L5M
	6	Female	SC1181-ND	7.52	5.64	5.17	EN3L6F
		Male	SC1182-ND	5.00	3.75	3.44	EN3L6M
	8	Male	SC1183-ND	6.16	4.62	4.24	EN3L8M
Panel-Mount Receptacles							
3	3	Female	SC1165-ND	4.32	3.24	2.97	EN3P3F
		Male	SC1166-ND	3.12	2.34	2.15	EN3P3M
	4	Female	SC1167-ND	5.24	3.93	3.60	EN3P4F
		Male	SC1168-ND	3.64	2.73	2.50	EN3P4M
	5	Female	SC1169-ND	6.16	4.62	4.24	EN3P5F
		Male	SC1170-ND	4.20	3.15	2.89	EN3P5M
	6	Female	SC1171-ND	7.12	5.34	4.90	EN3P6F
		Male	SC1172-ND	4.76	3.57	3.27	EN3P6M
	8	Male	SC1173-ND	5.84	4.38	4.02	EN3P8M
4	—	Dust Cap	SC1174-ND	.92	.69	.63	EN3CAP

RP34 Series

Compact Plastic Connector for AC Adapter

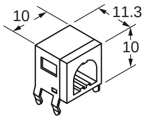
A compact, lightweight, 3-pole plastic connector specially designed for the AC adapter interface for notebook type personal computers. Plug is available in either straight type or right-angle type. Receptacle is very compact with a 10mm sq. mating surface and 11.3mm depth.

• Snap-lock locking and D-shaped mating section for easy insertion and disconnection • One of the three poles is designed for grounding terminal • Snap-fit assembling method for plug eliminates use of screws • External appearance is simplified cubical shape and fits well to any equipment.

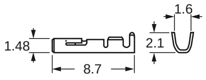
Materials:

• Main Frame and Insulator: Polycarbonate resin containing glass, and PBT resin UL94V-0, black • Male Terminal: Brass with silver plating • Female Terminal: Phosphor bronze with silver plating

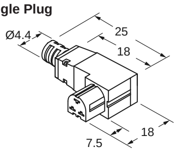
Receptacle



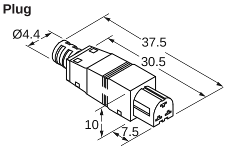
Contact (Female Terminal)



Right Angle Plug



Straight Plug



Con-tacts	Description	Digi-Key Part No.	Price Each			Hirose Part No.
			1	10	100	
3	Plug with Socket, Straight	HR170-ND†	2.89	2.41	1.78	RP34-8SP-3SC
4	Plug with Socket, Straight	HR171-ND†	2.54	2.11	1.56	RP34-8SP-4SC
3	Plug with Socket, Right Angle	HR172-ND†	2.63	2.19	1.62	RP34-8P-3SC
3	Receptacle with Pin, PC Mount	HR173-ND	3.19	2.79	1.98	RP34-8R-3PDL
4	Receptacle with Pin, PC Mount	HR174-ND	2.15	1.79	1.32	RP34-8R-4PDL
—	Contact, Female Terminal, Crimped, Tin	HR175-ND	.63	.52	.38	RP34-SC-112
—	Hand Crimp Tool	H9945-ND *NEW!*	343.18 each			RP34-TC-01

† Contact not included and must be ordered separately (Digi-Key Part No. HR175-ND).

RP34L Series

Connectors for Low Profile Power Supply

Features: Low profile: These receptacles are designed with their installation heights to be shorter than those of conventional RP34 series, such as 6.1mm (for 2-core type) and 5mm (for 3-core type).

Applications: Notebook PCs, portable remote terminals, AV equipment.

Fig. 1

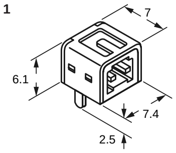


Fig. 2

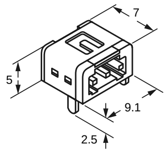


Fig. 3

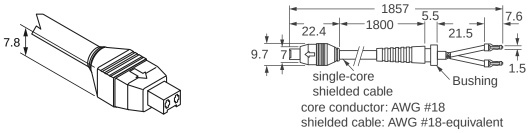


Fig. 4

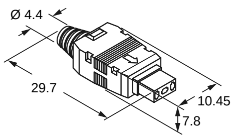


Fig. 5

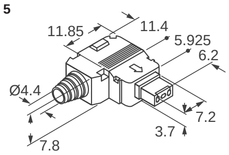


Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each			Hirose Part No.
				1	25	100	
1	2	Receptacle, Dip-Solder Male Terminal	H2348-ND	3.11	2.49	1.93	RP34L-5R-2PD
2	3	Receptacle, Dip-Solder Male Terminal	H2349-ND	2.56	2.05	1.59	RP34L-5R-3PD
3	2	Cable-Integrated Forming Straight Plug, Crimp-Style Female Terminal	H2350-ND	14.86	13.60	12.24	RP34L-5PA-2SC(1857)
4		Assembled Straight Plug, Crimp-Style Female Terminal	H2810-ND	3.22	2.50	2.00	RP34L-5PA-3SC
5	3	Assembled Right Angle Plug, Crimp-Style Female Terminal	H2352-ND	3.80	3.04	2.35	RP34L-5LP-3SC
—	—	Crimp Terminal - AWG 18-22	H2353CT-ND	18.78/100	67.62/500		RP34L-SC1-212(01)
—	—	Crimp Terminal - AWG 18-22	H2353TR-ND	766.33/8,000			RP34L-SC1-212(01)
—	—	Hand Crimp Tool	H9946-ND *NEW!*	1274.68 each			HT-102/RP34L-SC1-212

MQ172 Series SMT

Micro-Miniature Interface Connectors for Power Supply/Signaling

Features: Ultra Miniature/Low Profile SMT Design. **Dimensions:** 3.9mm (H) x 6.4mm (W) x 6mm (D) for the 3 contact type, this series is ideal for today's miniature, lightweight electronic products.

Applications: Portable remote terminals, portable telephones, PHS (personal handy phone system), Notebook PCs, Electronic measuring instruments. **Ratings:** Rated Current: 3A (4-contact type, rated current is 2A, or 3A for optional 2 terminals and 0.5A for other 2 terminals.) Temp. Range: -30°C to +75°C. Rated Volt: DC 30V or less AC 40V or less.

Fig. 1

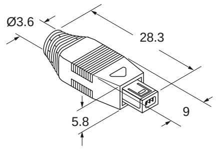


Fig. 2

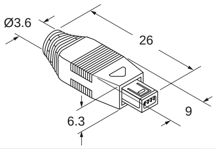


Fig. 3

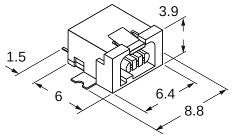


Fig. 4

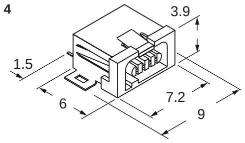


Fig.	No. of Contacts	Description	Digi-Key Part No.	Price Each				Hirose Part No.
				1	10	50	100	
1	3	Plug, Unshielded	H2790-ND	2.83	2.35	2.01	1.74	MQ172-3SA-CV
2	4	Plug, Shielded	H2791-ND	2.81	2.45	2.04	1.74	MQ172X-4SA-CV
3	3	Receptacle, Unshielded, Loose	H2792-ND	1.95	1.62	1.38	1.20	MQ172-3PA

Fig.	No. of Contacts	Digi-Key Part No.	*Loose Piece* Price Each 100	Hirose Part No.	*Cut Tape*⁎ Price Each			*Tape & Reel* † Pricing 1,000	Hirose Part No.
					10	50	100		
Shielded — Receptacle									
4	4	H2794-ND	1.52	MQ172X-4PA	2.23	1.86	1.65	877.80	MQ172X-4PA(11)

⁎ For Cut Tape, add “CT” to the Digi-Key Part No. (H2794CT-ND)
† For Tape & Reel, add “TR” to the Digi-Key Part No. (H2794TR-ND)

3200 Series SMT

Applications: Portable personal computers, electronic notebooks, various OA equipment, and portable mobile communication equipment.

Specifications: Rated Current: 500mA. Rated Voltage: AC125V. Insulation Voltage: 250 MΩ or more at DC100V. Withstanding Voltage: At AC300V rms for 1 minute.

Materials: ***Receptacle:*** Insulation: Synthetic resin, Black. Contacts: Copper alloy, Selective gold-plated. Shell: Stainless steel, Solder-plated. ***Plug:*** Insulation: Synthetic resin, Black. Contacts: Copper alloy, Selective gold-plated. Shell: Copper alloy, Solder-plated. Cover: Synthetic resin, Black color.

Fig. 1 — Receptacle

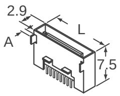


Fig. 2 — Plug

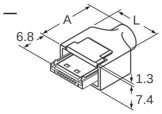


Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
		A	L		1	10	50	
1	8	0.5	12.6	H10011-ND	2.96	2.45	2.04	3260-8S1
	8	1.0	12.6	H10012-ND	2.89	2.41	2.01	3260-8S2
	8	1.5	12.6	H10013-ND	2.96	2.45	2.04	3260-8S3
	10	0.5	14.2	H10007-ND	3.25	2.69	2.24	3260-10S1
	10	1.0	14.2	H10008-ND	3.25	2.69	2.24	3260-10S2
	10	1.5	14.2	H10009-ND	3.25	2.69	2.24	3260-10S3
	12	1.5	14.2	H10010-ND	2.96	2.45	2.04	3260B-12S3(01)
2	8	18	15.1	H10006-ND	2.99	2.48	2.06	3240-8P-C
	10	21	16.7	H10004-ND	5.08	4.20	3.50	3240-10P-C
	12	21	16.7	H10005-ND	5.08	4.20	3.50	3240-12P-TO-C

3500 Series SMT

Fig. 1 — Forward Receptacle

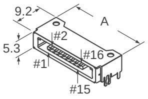


Fig. 2 — Reverse Receptacle

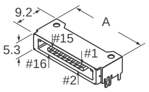


Fig. 3 — SMT Plug

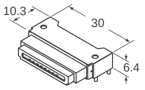
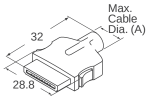


Fig. 4 — Plug



Applications: Hand-held terminals, PDA equipment, notebook computers, mobile communications equipment, office automation equipment, measuring instruments.

Specifications: Rated Voltage: 125VAC. Rated Current: 1A. Operating Temp.: -40°C to +85°C. Insulation Resistance: 1,000 MΩ or greater/ 250VDC. Withstand Voltage: 350 VAC for 1 minute. Contact Resistance: 40 mΩ or less. Insertion/Removal Life: 20,000 times.

Materials: ***Receptacles:*** Insulation: Synthetic resin, Black color UL94V-0. Contacts: Copper alloy, Selective gold plating 0.2µm over palladium plating. Shell: Stainless steel, Solder plating. ***Plug:*** Insulation: Synthetic resin, Black color UL94V-0. Contacts: Copper alloy, Selective gold plating 0.2µm over palladium plating. Shell: Stainless steel. Lock Spring: Stainless steel. Cover: Synthetic resin, Black color.

Fig.	No. of Contacts	Dim. A (mm)	Digi-Key Part No.	Price Each			Hirose Part No.
				1	10	50	
1	10	20.8	H10015-ND	5.42	4.49	3.74	3560-10S
	16	25.6	H10018-ND	6.70	5.55	4.62	3560-16S
2	10	20.8	H10016-ND	5.42	4.49	3.74	3560-10SR
	16	25.6	H10019-ND	6.15	5.09	4.24	3560-16SR
	16	25.6	H10020-ND	6.70	5.55	4.62	3560-16SR1
3	16	—	H10017-ND	6.66	5.64	4.74	3560-16P-PG
4	10	ø5.3	H10014-ND	8.58	7.26	6.11	3540-10P-CV
	16	ø6.2	H10000-ND	12.34	11.42	10.25	3540-16P-CV

(Continued)

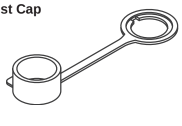
HR10 Series

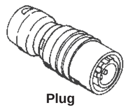
7mm Push-Pull Connectors GOLD PLATED CONTACTS

Features: The most compact HR10 series with well balanced, simplified layout in limited space; Easy "Push-Pull" Operation; Polarization – Five-key system permits only one way of coupling.

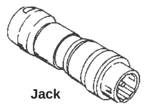
Electrical Specifications: • Current Rating: 2A • Insulation Resistance: 1000MΩ or more at DC100V • Contact Resistance: 10mΩ or less at DC1A.

Dust Cap

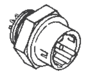




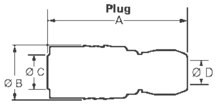
Plug

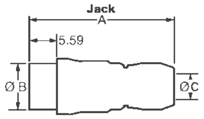


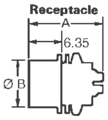
Jack



Receptacle







No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B	C	D
4	HR100, HR103	28.50	11.00	7.00	5.20
6	HR101, HR104	28.50	11.00	7.00	5.20
12	HR102, HR105	32.50	14.00	9.50	7.20

No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B	C
4	HR300, HR303	28.50	8.85	5.20
6	HR301, HR304	28.50	8.85	5.20
12	HR302, HR305	32.50	11.90	7.20

No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B
4	HR342 HR200, HR203	15.50 14.00	8.85 8.85
6	HR343, HR344 HR201, HR204	15.50 14.00	8.85 8.85
12	HR202, HR205 HR347, HR348	16.00 15.50	11.90 11.90

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	HR10 Series					
4	Plug with Pin Insert	HR100-ND	12.41	10.94	9.17	HR10-7P-4P
6	Plug with Pin Insert	HR101-ND	14.07	12.40	10.39	HR10-7P-6P
12	Plug with Pin Insert	HR102-ND	14.06	13.24	11.58	HR10-10P-12P
4	Plug with Socket Insert	HR103-ND	14.07	12.40	10.39	HR10-7P-4S
6	Plug with Socket Insert	HR104-ND	15.16	13.36	11.20	HR10-7P-6S
12	Plug with Socket Insert	HR105-ND	16.85	15.86	13.88	HR10-10P-12S
4	Receptacle with Pin Insert	HR200-ND	7.23	6.36	4.77	HR10-7R-4P
6	Receptacle with Pin Insert	HR201-ND	7.88	6.93	5.20	HR10-7R-6P
12	Receptacle with Pin Insert	HR202-ND	10.08	8.82	6.72	HR10-10R-12P
4	Receptacle with Socket Insert	HR203-ND	8.83	7.73	5.89	HR10-7R-4S
6	Receptacle with Socket Insert	HR204-ND	11.35	9.94	7.57	HR10-7R-6S
12	Receptacle with Socket Insert	HR205-ND	14.07	12.40	10.39	HR10-10R-12S
4	Jack with Pin Insert	HR300-ND	11.66	10.21	7.78	HR10-7J-4P
6	Jack with Pin Insert	HR301-ND	11.03	9.72	8.14	HR10-7J-6P
12	Jack with Pin Insert	HR302-ND	13.23	11.66	9.77	HR10-10J-12P
4	Jack with Socket Insert	HR303-ND	12.14	10.70	8.96	HR10-7J-4S
6	Jack with Socket Insert	HR304-ND	13.80	12.16	10.19	HR10-7J-6S
12	Jack with Socket Insert	HR305-ND	15.52	14.61	12.79	HR10-10J-12S
6	Receptacle with Pin Insert, PCB	HR343-ND	11.41	9.92	7.94	HR10-7R-6PA
12	Receptacle with Pin Insert, PCB	HR347-ND	13.74	12.71	10.65	HR10-10R-12PA
4	Receptacle with Socket Insert, PCB	HR342-ND	11.70	10.83	9.07	HR10-7R-4SA
6	Receptacle with Socket Insert, PCB	HR344-ND	13.86	12.83	10.75	HR10-7R-6SA
12	Receptacle with Socket Insert, PCB	HR348-ND	16.31	15.77	14.14	HR10-10R-12SA
—	Dust Cap for 4-6 Position Recept.	HR345-ND	3.12	2.60	1.92	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND	3.12	2.60	1.92	HR10-10R-C

HR10A Series

Snap-In and Threaded Coupling Connectors SILVER PLATED CONTACTS

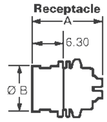
Features:

- Compatible with current HR10 series: Cable crimping tool maintains consistent cable clamp force.
- To prevent from slipping, HR10A series are accompanied with ruled-off-squares roulette.

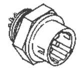
Electrical Specifications:

- Current Rating: 2A
- Insulation Resistance: min. 1,000MΩ
- Contact Resistance: max. 10mΩ.

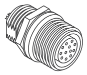
No. of Pins	Digi-Key Part No.	Dimension (mm) A	B
4	HR350, HR351 HR210, HR213 HR232 HR237	15.60 14.00 12.20 12.00	8.85 8.85 8.85 8.85
5	HR352 HR218, HR219	15.60 14.00	8.85 8.85
6	HR353, HR354 HR357 HR346 HR211, HR214 HR233 HR238	15.60 15.50 14.00 14.00 12.20 12.00	8.85 11.00 11.00 8.85 8.85 8.85
10	HR216, HR217 HR358, HR359 HR234 HR239	16.00 15.60 12.20 12.00	14.00 11.90 11.90 11.90
12	HR368, HR373 HR212, HR215 HR360, HR361 HR367, HR369, HR374 HR235 HR370 HR240	16.00 16.00 15.60 15.50 12.20 12.00 11.90	14.00 11.90 11.90 14.00 11.90 14.00 12.00
20	HR377 HR379 HR383, HR384 HR378, HR380 HR385 HR236, HR241	20.20 19.20 17.80 17.80 15.00 15.00	15.40 15.40 18.00 15.40 18.00 15.40

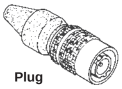


Receptacle

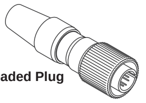


Threaded Receptacle

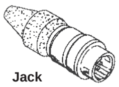




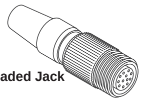
Plug



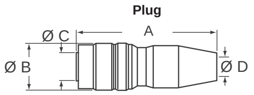
Threaded Plug

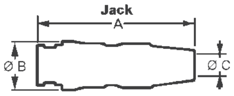


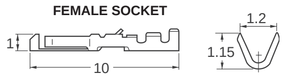
Jack

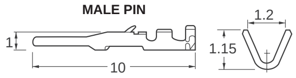


Threaded Jack









No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B	C	D
4	HR110, HR113 HR160, HR165	35.00	11.50	7.00	5.00
5	HR118, HR119	35.00	11.50	7.00	5.00
6	HR355, HR356 HR111, HR114 HR161, HR166	35.00 35.00 35.00	12.00 11.50 11.50	7.00 7.00 7.00	5.00 5.00 5.00
10	HR116, HR117 HR162, HR167	43.00	14.70	9.50	7.00
12	HR371, HR372 HR364, HR365 HR366 HR112, HR115 HR163, HR168	45.80 43.00 43.00 43.00 43.00	15.00 17.00 17.00 14.70 14.70	9.50 9.50 9.50 9.50 9.50	6.50 7.00 7.00 7.00 7.00
20	HR164, HR169 HR375, HR376 HR382	58.80 58.80 56.50	19.00 19.00 20.00	13.00 13.00 13.00	7.00 7.00 7.00

No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B	C
4	HR310, HR313 HR332, HR337	35.3	8.85	5.00
6	HR311, HR314 HR333, HR338	35.3	8.85	5.00
10	HR316, HR317 HR334, HR339	43.00	11.90	7.00
12	HR312, HR315 HR335, HR340 HR362, HR363	43.00 43.00 41.30	11.90 11.90 14.70	7.00 7.00 7.00
20	HR336, HR341	58.50	15.40	7.00

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	HR10A Series, Solder Cup Type					
4	Plug with Pin Insert	HR110-ND	10.88	9.59	8.03	HR10A-7P-4P
5	Plug with Pin Insert	HR118-ND	11.74	10.35	8.67	HR10A-7P-5P
6	Plug with Pin Insert	HR111-ND	11.09	9.77	8.19	HR10A-7P-6P
10	Plug with Pin Insert	HR116-ND	14.68	12.94	10.84	HR10A-10P-10P
12	Plug with Pin Insert	HR112-ND	15.35	13.53	11.34	HR10A-10P-12P
20	Plug with Pin Insert	HR375-ND	28.85	27.89	25.00	HR10A-13P-20P
4	Plug with Socket Insert	HR113-ND	11.64	10.19	7.76	HR10A-7P-4S
5	Plug with Socket Insert	HR119-ND	10.65	9.38	7.86	HR10A-7P-5S
6	Plug with Socket Insert	HR114-ND	10.88	9.59	8.03	HR10A-7P-6S
10	Plug with Socket Insert	HR117-ND	14.05	12.38	10.37	HR10A-10P-10S
12	Plug with Socket Insert	HR115-ND	14.26	12.57	10.53	HR10A-10P-12S
20	Plug with Socket Insert	HR376-ND	35.04	33.29	31.29	HR10A-13P-20S
4	Receptacle with Pin Insert	HR210-ND	6.73	5.92	4.44	HR10A-7R-4P
5	Receptacle with Pin Insert	HR218-ND	8.45	7.44	5.58	HR10A-7R-5P
6	Receptacle with Pin Insert	HR211-ND	7.28	6.41	4.81	HR10A-7R-6P
10	Receptacle with Pin Insert	HR217-ND	10.37	9.08	6.92	HR10A-10R-10P
12	Receptacle with Pin Insert	HR212-ND	11.02	9.64	7.35	HR10A-10R-12P
20	Receptacle with Pin Insert	HR377-ND	17.21	16.64	14.92	HR10A-13R-20P
4	Receptacle with Socket Insert	HR213-ND	6.65	5.86	4.39	HR10A-7R-4S
5	Receptacle with Socket Insert	HR219-ND	6.85	6.03	4.53	HR10A-7R-5S
6	Receptacle with Socket Insert	HR214-ND	7.68	6.76	5.07	HR10A-7R-6S
10	Receptacle with Socket Insert	HR216-ND	10.20	8.93	6.80	HR10A-10R-10S
12	Receptacle with Socket Insert	HR215-ND	10.66	9.33	7.11	HR10A-10R-12S
20	Receptacle with Socket Insert	HR379-ND	34.14	33.01	29.59	HR10A-13R-20S
4	Jack with Pin Insert	HR310-ND	9.62	8.43	6.42	HR10A-7J-4P
6	Jack with Pin Insert	HR311-ND	10.18	8.91	6.79	HR10A-7J-6P
10	Jack with Pin Insert	HR317-ND	12.68	11.18	9.37	HR10A-10J-10P
12	Jack with Pin Insert	HR312-ND	13.65	12.03	10.08	HR10A-10J-12P
4	Jack with Socket Insert	HR313-ND	9.60	8.40	6.40	HR10A-7J-4S
6	Jack with Socket Insert	HR314-ND	10.15	8.89	6.77	HR10A-7J-6S
10	Jack with Socket Insert	HR316-ND	12.08	10.64	8.92	HR10A-10J-10S
12	Jack with Socket Insert	HR315-ND	12.33	10.86	9.10	HR10A-10J-12S
	HR10A Series, Crimp Type (contacts sold separately)					
4	Plug for Pin Insert, Crimp Type	HR160-ND	11.86	10.38	7.91	HR10A-7P-4PC
6	Plug for Pin Insert, Crimp Type	HR161-ND	11.86	10.38	7.91	HR10A-7P-6PC
10	Plug for Pin Insert, Crimp Type	HR162-ND	13.38	11.79	9.88	HR10A-10P-10PC
12	Plug for Pin Insert, Crimp Type	HR163-ND	13.38	11.79	9.88	HR10A-10P-12PC
20	Plug for Pin Insert, Crimp Type	HR164-ND	23.52	22.74	20.39	HR10A-13P-20PC
4	Plug for Socket Insert, Crimp Type	HR165-ND	10.54	9.29	7.79	HR10A-7P-4SC
6	Plug for Socket Insert, Crimp Type	HR166-ND	10.54	9.29	7.79	HR10A-7P-6SC
10	Plug for Socket Insert, Crimp Type	HR167-ND	13.65	12.03	10.08	HR10A-10P-10SC
12	Plug for Socket Insert, Crimp Type	HR168-ND	13.65	12.03	10.08	HR10A-10P-12SC
20	Plug for Socket Insert, Crimp Type	HR169-ND	23.52	22.74	20.39	HR10A-13P-20SC
4	Recept. for Pin Insert, Crimp Type	HR232-ND	6.35	5.55	3.93	HR10A-7R-4PC
6	Recept. for Pin Insert, Crimp Type	HR233-ND	6.35	5.55	3.93	HR10A-7R-6PC
10	Recept. for Pin Insert, Crimp Type	HR234-ND	7.98	7.02	5.27	HR10A-10R-10PC
12	Recept. for Pin Insert, Crimp Type	HR235-ND	7.98	7.02	5.27	HR10A-10R-12PC
20	Recept. for Pin Insert, Crimp Type	HR236-ND	14.38	13.54	11.85	HR10A-13R-20PC
4	Recept. for Socket Insert, Crimp Type	HR237-ND	6.52	5.69	4.03	HR10A-7R-4SC
6	Recept. for Socket Insert, Crimp Type	HR238-ND	6.52	5.69	4.03	HR10A-7R-6SC
10	Recept. for Socket Insert, Crimp Type	HR239-ND	8.30	7.31	5.48	HR10A-10R-10SC
12	Recept. for Socket Insert, Crimp Type	HR240-ND	8.30	7.31	5.48	HR10A-10R-12SC
20	Recept. for Socket Insert, Crimp Type	HR241-ND	14.38	13.54	11.85	HR10A-13R-20SC
4	Jack for Pin Insert, Crimp Type	HR332-ND	11.02	9.64	7.35	HR10A-7J-4PC
6	Jack for Pin Insert, Crimp Type	HR333-ND	11.02	9.64	7.35	HR10A-7J-6PC
10	Jack for Pin Insert, Crimp Type	HR334-ND	13.57	11.96	10.02	HR10A-10J-10PC
12	Jack for Pin Insert, Crimp Type	HR335-ND	13.57	11.96	10.02	HR10A-10J-12PC
20	Jack for Pin Insert, Crimp Type	HR336-ND	23.84	23.05	20.66	HR10A-13J-20PC
4	Jack for Socket Insert, Crimp Type	HR337-ND	11.16	9.77	7.44	HR10A-7J-4SC
6	Jack for Socket Insert, Crimp Type	HR338-ND	11.16	9.77	7.44	HR10A-7J-6SC
10	Jack for Socket Insert, Crimp Type	HR339-ND	13.84	12.20	10.22	HR10A-10J-10SC
12	Jack for Socket Insert, Crimp Type	HR340-ND	13.84	12.20	10.22	HR10A-10J-12SC
20	Jack for Socket Insert, Crimp Type	HR341-ND	23.84	23.05	20.66	HR10A-13J-20SC

(Continued)

HIROSE ELECTRIC CO.,LTD. Circular Connectors *(Cont.)*

Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	HR10A Series, PCB Type					
4	Receptacle with Pin Insert	HR350-ND	6.84	5.79	4.34	HR10A-7R-4PB
6	Receptacle with Pin Insert	HR353-ND	7.46	6.32	4.74	HR10A-7R-6PB
10	Receptacle with Pin Insert	HR358-ND	8.51	7.40	5.92	HR10A-10R-10PB
12	Receptacle with Pin Insert	HR360-ND	10.30	8.96	7.17	HR10A-10R-12PB
20	Receptacle with Pin Insert	HR378-ND	17.21	16.64	14.92	HR10A-13R-20PB
4	Receptacle with Socket Insert	HR351-ND	7.11	5.88	4.41	HR10A-7R-4SB
5	Receptacle with Socket Insert	HR352-ND	6.53	5.53	4.15	HR10A-7R-5SB
6	Receptacle with Socket Insert	HR354-ND	6.84	5.79	4.34	HR10A-7R-6SB
10	Receptacle with Socket Insert	HR359-ND	8.55	7.24	5.43	HR10A-10R-10SB
12	Receptacle with Socket Insert	HR361-ND	8.92	7.76	6.21	HR10A-10R-12SB
20	Receptacle with Socket Insert	HR380-ND	17.21	16.64	14.92	HR10A-13R-20SB
	HR10A Series Threaded Coupling, Solder Cup Type					
6	Plug with Pin Insert	HR355-ND	15.41	14.90	13.36	HR10A-7TP-6P
6	Plug with Pin Insert	HR356-ND*	15.86	15.33	13.75	HR10A-7TP-6P(01)
12	Plug with Pin Insert	HR364-ND	19.35	18.71	16.77	HR10A-10TP-12P
12	Plug with Pin Insert	HR371-ND	19.80	19.14	17.16	HR10A-10WTP-12P
20	Plug with Pin Insert	HR382-ND	36.74	35.52	31.84	HR10A-13TPD-20P
12	Plug with Socket Insert	HR366-ND	20.07	19.41	17.40	HR10A-10TPA-12S
12	Plug with Socket Insert	HR372-ND	19.35	18.71	16.77	HR10A-10WTP-12S
6	Receptacle with Pin Insert	HR346-ND*	16.56	15.59	13.64	HR10-7TR-6S
12	Receptacle with Pin Insert	HR368-ND	12.66	11.72	9.82	HR10A-10TR-12S
12	Receptacle with Pin Insert	HR373-ND	15.23	14.34	12.55	HR10A-10WTR-12S
12	Jack with Socket Insert	HR363-ND	15.95	15.42	13.82	HR10A-10TJ-12S
12	Jack with Pin Insert	HR362-ND	17.57	16.98	15.23	HR10A-10TJ-12P
	HR10A Series Threaded Coupling, Crimp Type (contacts sold separately)					
12	Plug for Pin Insert, Crimp Type	HR365-ND	18.54	17.93	16.07	HR10A-10TP-12PC
12	Recept. for Socket Insert, Crimp Type	HR370-ND	11.46	10.61	8.89	HR10A-10TR-12SC
20	Recept. for Socket Insert, Crimp Type	HR385-ND	17.12	16.55	14.84	HR10A-13TR-20SC
	HR10A Series Threaded Coupling, PCB Type					
6	Receptacle with Socket Insert	HR357-ND	15.03	14.15	12.38	HR10A-7TR-6SA
12	Receptacle with Socket Insert	HR369-ND	12.66	11.72	9.82	HR10A-10TR-12SB
12	Receptacle with Socket Insert	HR374-ND	15.23	14.34	12.55	HR10A-10WTR-12SB
20	Receptacle with Socket Insert	HR384-ND	20.88	20.19	18.10	HR10A-13TR-20SB
12	Receptacle with Pin Insert	HR367-ND	12.66	11.72	9.82	HR10A-10TR-12PB
20	Receptacle with Pin Insert	HR383-ND	20.88	20.19	18.10	HR10A-13TR-20PB
—	Dust Cap for 4-6 Position Recept.	HR345-ND	3.12	2.60	1.92	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND	3.12	2.60	1.92	HR10-10R-C
—	Dust Cap for 20 Position Receptacle	HR381-ND	2.96	2.45	1.84	HR10A-13R-C
—	Male Pin, Crimped, Gold	HR450-ND	—	.29	.17	HR10-PC-111
—	Female Socket, Crimped, Gold	HR452-ND	—	.29	.17	HR12-SC-111
—	Male Pin, Crimped, Silver	HR451-ND	—	.23	.14	HR10-PC-112
—	Female Socket, Crimped, Silver	HR453-ND	—	.23	.14	HR12-SC-112
—	Hand Crimp Tool for HR10A Series	HR497-ND	508.30	—	—	HR12-SC-TC
—	Extraction Tool for Female Sockets	HR498-ND	12.64	—	—	HR12-SC-TP
—	Extraction Tool for Male Pins	HR499-ND	8.47	—	—	RP6-SC-TP

* Gold Plated

MXR Series - Circular Connectors

Miniature Push-Pull Connectors with Ground Function

MXR type connectors are miniature, lightweight, push-pull lock connectors with a ground function which has been developed for use with VTR camera and system camera interfaces.

Features:

- The single action push-pull lock function allows quick connections and disconnections as well as high density mounting
- Verification of a secure engagement is afforded by a click sound which exemplifies the fine feel of this lock system
- Use of aluminum alloy for the shell has contributed to the lightweight design • One of the three conductors makes contact before the others in this sequenced design.

Specifications:

• **Withstand Voltage:** 300V AC for 1 minute • **Current Capacity:** 2A • **Insulation Resistance:** 1000 MΩ or greater at 100V DC • **Contact Resistance:** 20 mΩ or less at 1A AC • **Solder Pot Diameter:** 0.9 mm dia. **Applications:** VTR cameras, system cameras, audio equipment, etc. **Materials:** • **Shell:** Aluminum alloy, nickel plating • **Insulation:** PBT resin, black, UL94V-0 • **Male Pins:** Brass, gold plating • **Female Pins:** Phosphor bronze, partial gold plating

Fig. 1 – Plug

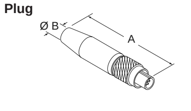


Fig. 2 – Solder Cup

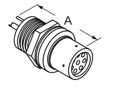


Fig. 3 – Solder Pin

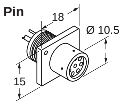


Fig.	No. of Contacts	Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
		Plug								
1	3	Bushing, Black	47	5	HR603-ND	14.86	13.99	12.68	12.24	MXR-8PA-3PB
	4	Bushing, Black	47	5	HR604-ND	15.10	14.21	12.88	12.44	MXR-8PA-4PB
	6	Bushing, Black	47	5	HR606-ND	15.56	14.64	13.27	12.81	MXR-8PA-6PB
	8	Bushing, Black	50	8	HR608-ND	16.01	15.08	13.66	13.19	MXR-8P-8P
	8	Bushing, White	50	8	HR610-ND	16.25	15.30	13.87	13.39	MXR-8P-8P(01)
		Receptacles								
2	3	Solder Cup	19.3	—	HR613-ND	8.52	7.46	6.75	5.68	MXR-8RA-3S
	4		19.3	—	HR614-ND	8.86	7.75	7.02	5.91	MXR-8RA-4S
	6		19.3	—	HR616-ND	9.34	8.17	7.40	6.23	MXR-8RA-6S
	8		20.4	—	HR618-ND	9.84	8.61	7.79	6.56	MXR-8RA-8S
3	3	Solder Pin	—	—	HR623-ND	9.06	7.88	7.10	6.31	MXR-8R-3SA
	4		—	—	HR624-ND	8.86	7.75	7.02	5.91	MXR-8R-4SA
	6		—	—	HR626-ND	9.34	8.17	7.40	6.23	MXR-8R-6SA
	8		—	—	HR628-ND	9.84	8.61	7.79	6.56	MXR-8R-8SA
		Tools								
		Tool, Tightening Jig - MXR Series			H9988-ND	272.38 each				MXR-8P-T01
		Tool, Cable Crimper - MXR Series			H9989-ND	328.16 each				HR10A-TC-04

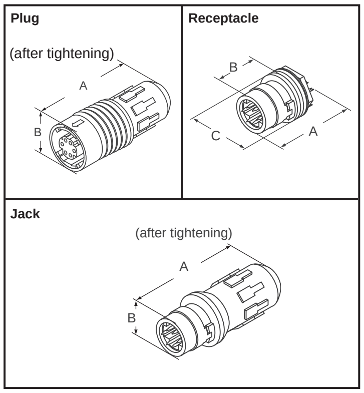
HR30 Series Miniature Waterproof Plastic Connectors

Features: Miniature and compact design: The HR30 allows for a maximum outside diameter of 12.6mm in the 3 and 6 positions, and 15.5mm for the 10 and 12 position connectors. The compact design yields a mated length from the panel of only 32.3mm for the 3 and 6 position version and 42.1mm for the 10 and 12 position. Water-tight connection: Meets the IP67 standard, when in the mated position. Push-pull lock-Using Hirose"s unique lock mechanism, the HR30 connector has a reliable, robust "push-pull" lock that is easy to operate. Light-weight and corrosion free.

Applications: Test and measurement equipment, communication equipment, and other miniature electronic devices.

Specifications: Rated Current: 5A (3 pos.), 2A (6, 10, 12 pos.). Operation Temp. Range: -25ºC~+85ºC. Rated Voltage: AC100V, DC140V (3, 6 pos.), AC30V, DC42V (10, 12 pos.). Storage Temp. Range: -25ºC~+85ºC. Contact Resistance: 5mΩ max. (3 pos.) 15mΩ max. (6, 10, 12 pos.) measured at 1A DC. Insulation Resistance: 1000MΩmin. measured at 100 VDC. Waterproof Performance: Water must not penetrate inside the connector. While mated with a applicable connector, leave under water at a depth of 1m for half hour.

Material: ***Plug:*** Insulator: PPS and PBT, black, UL94V-0, polyacetal, natural. Gasket: SIR/CR, red/black. Contacts: Brass, phosphor bronze, gold plating. Spring: Stainless steel. ***Receptacles:*** Insulator: PPS, black, UL94V-0. Gasket: CR, black. Contacts: Brass, phosphor bronze, gold plating. Hexagonal nut: Zinc alloy, chromate. Washer: Phosphor bronze, nickel plating. ***Crimp Contacts:*** Contacts: Phosphor bronze, selective gold plating.



Digi-Key Part No.	Cable Diameter	Dim. A	Dim. B	Dim. C
HR855-ND	4.2~5	29.8	12.6	—
HR856-ND	4.2~5	29.8	12.6	—
HR857-ND	4.2~5	30.3	12.6	—
HR858-ND	3.5~4.3	29.8	12.6	—
HR859-ND	3.5~4.3	29.8	12.6	—
HR860-ND	3.5~4.3	30.3	12.6	—
HR861-ND	6.2~7	39.8	15.5	—
HR862-ND	6.2~7	39.8	15.5	—
HR863-ND	6.2~7	39.8	15.5	—
HR864-ND	—	16	8.3	12
HR865-ND	—	16	8.3	12
HR866-ND	—	18.4	8.3	12
HR867-ND	—	15.5	9.3	15
HR868-ND	—	15.5	9.3	15
HR869-ND	—	15.5	9.3	15
HR870-ND	4.2~5	28.9	12	—
HR871-ND	3.5~4.3	28.9	12	—
HR872-ND	6.2~7	38	15	—
HR873-ND	6.2~7	38	15	—
HR874-ND	6.2~7	38	15	—

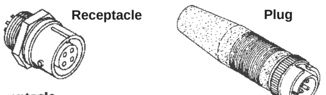
Contacts	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
3	Plug, Solder Female Contact	HR855-ND	9.89	8.60	7.74	6.88	HR30-6P-3S
6	Plug, Solder Female Contact	HR856-ND	7.22	5.98	4.98	4.49	HR30-6P-6S
6	Plug, Solder Male Contact	HR857-ND	7.12	6.03	5.07	4.53	HR30-6P-6P
3	Plug, Solder, Fine Wire, Female Contact	HR858-ND	11.18	9.72	8.75	7.78	HR30-6PA-3S
6	Plug, Solder, Fine Wire, Female Contact	HR859-ND	7.22	5.98	4.98	4.49	HR30-6PA-6S
6	Plug, Solder, Fine Wire, Male Contact	HR860-ND	8.11	6.87	5.78	5.15	HR30-6PA-6P
10	Plug, Crimp, Female Contact	HR861-ND	6.70	5.55	4.62	4.16	HR30-7P-10SC
12	Plug, Crimp, Female Contact	HR862-ND	6.70	5.55	4.62	4.16	HR30-7P-12SC
12	Plug, Crimp, Male Contact	HR863-ND	6.70	5.55	4.62	4.16	HR30-8P-12PC
3	Receptacle, Solder, Male Contact	HR864-ND	7.46	6.32	5.31	4.74	HR30-6R-3P
6	Receptacle, Solder, Male Contact	HR865-ND	5.97	4.95	4.12	3.71	HR30-6R-6P
6	Receptacle, Solder, Female Contact	HR866-ND	6.66	5.64	4.74	4.23	HR30-6R-6S
10	Receptacle, Crimp, Male Contact	HR867-ND	4.70	3.89	3.24	2.92	HR30-7R-10PC
12	Receptacle, Crimp, Male Contact	HR868-ND	4.70	3.89	3.24	2.92	HR30-7R-12PC
12	Receptacle, Crimp, Female Contact	HR869-ND	4.70	3.89	3.24	2.92	HR30-8R-12SC
6	Jack, Solder, Male Contact	HR870-ND	6.81	5.77	4.85	4.33	HR30-6J-6P
6	Jack, Solder, Fine Wire, Male Contact	HR871-ND	7.77	6.58	5.54	4.94	HR30-6JA-6P
10	Jack, Crimp, Male Contact	HR872-ND	6.32	5.24	4.36	3.93	HR30-7J-10PC
12	Jack, Crimp, Male Contact	HR873-ND	6.32	5.24	4.36	3.93	HR30-7J-12PC
12	Jack, Crimp, Female Contact	HR874-ND	6.32	5.24	4.36	3.93	HR30-8J-12SC
—	Dust Cap for Plugs - Solder	HR875-ND	2.24	1.87	1.56	1.38	HR30-6P-C
—	Dust Cap for Plugs - Crimp	HR876-ND	2.24	1.87	1.56	1.38	HR30-7P-C
—	Dust Cap for Plugs - Crimp	HR877-ND	2.24	1.87	1.56	1.38	HR30-8P-C
—	Dust Cap for Solder Type Receptacle	HR878-ND	2.24	1.87	1.56	1.38	HR30-6R-C
—	Dust Cap for Crimp Type Receptacle	HR879-ND	2.24	1.87	1.56	1.38	HR30-7R-C
	Tools						
	Wiring Jig for Solder Plugs	H9950-ND	214.86 each				HR30-6P-6S-T01
	Wiring Jig for Receptacle and Jack	H9951-ND	214.86 each				HR30-6R-6P-T01
	Back Shell Tightening Collar	H9952-ND	136.09 each				HR30-6P-T02
	Manual Crimping Tool	H9953-ND	1141.09 each				HT-102/HR30-1

Description	Digi-Key Part No.	Loose Piece Price Each 100	Hirose Part No.	Cut Tape* Price Each 10	50	100	Tape & Reel† Pricing 10,000	Hirose Part No.
Contacts - Male - Phosphor Bronze with Selective Gold Plating								
26-30AWG	HR880-ND	.19	HR30-PC-111	.25	.17	.15	70.13/M	HR30-PC-211
Contacts - Female - Phosphor Bronze with Selective Gold Plating								
26-30AWG	HR881-ND	.19	HR30-SC-111	.25	.17	.15	70.13/M	HR30-SC-211

* For Cut Tape, add "CT" to the Digi-Key Part No. (HR880CT-ND)
† For Tape & Reel, add "TR" to the Digi-Key Part No. (HR880TR-ND)

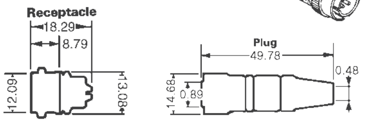
KMC Series

9mm Bayonet Lock Connectors WATER RESISTANT



Features: Five-key mechanism between two metal shells assures error-free polarization in coupling • Bayonet lock offers easier coupling with higher reliability than thread lock.

Electrical Specifications: • Insulation Resistance: min. 2000MΩ at DC100V • Contact Resistance: max. 10mΩ at DC1A • Current Rating: 2A



Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	Plug with Pin Insert	HR400-ND	15.71	13.84	11.60	KMC-9BPD-4P
6	Plug with Pin Insert	HR401-ND	13.31	12.53	10.97	KMC-9BPD-6P
4	Receptacle with Socket Insert	HR402-ND	9.91	8.68	6.61	KMC-9BRD-4S
6	Receptacle with Socket Insert	HR403-ND	11.19	9.87	8.27	KMC-9BRD-6S

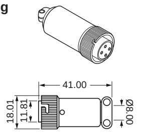
(Continued)

RM Series 12mm Video Connectors Does not have rubber boot.

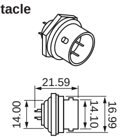
Features:
• Pipe shaped socket contact for long life reliable operation • UL94V-0 diallyl phthalate molding material for excellent electrical and mechanical characteristics • Sleek design with grainy matte finish • Bayonet type coupling for easy operation • Reversible pin and socket insert • 2, 3, 4, 5, 6, and 7 pin available in the common diecasting body • Jack available for cable extension program

Specifications:
• Operating Voltage: AC600V (2 pin) AC500V (3 and 4 pin) AC350V (5, 6 and 7 pin) • Current rating: 5 amps • Insulation resistance: min. 1,000MΩ at DC500V • Contact resistance: max. 4mΩ • Solder cup diameter: 1.1mm (.043") • Temp. cycling: -55°C to +85°C • Contact durability: 2000 times at max. 8mΩ

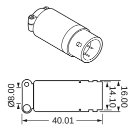
Plug



Receptacle



Jack

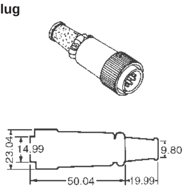


No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
2	Plug with Pin Insert	HR882-ND	8.32	7.04	5.92	5.28	RM12BPE-2PH
2	Plug with Socket Insert	HR883-ND	8.58	7.26	6.11	5.45	RM12BPE-2S
3	Plug with Pin Insert	HR884-ND	8.42	7.13	6.00	5.35	RM12BPE-3PH
3	Plug with Socket Insert	HR885-ND	8.71	7.37	6.20	5.53	RM12BPE-3S
4	Plug with Pin Insert	HR886-ND	8.53	7.22	6.07	5.42	RM12BPE-4PH
4	Plug with Socket Insert	HR887-ND	8.81	7.66	6.90	6.13	RM12BPE-4S
5	Plug with Pin Insert	HR888-ND	8.68	7.35	6.18	5.52	RM12BPE-5PH
5	Plug with Socket Insert	HR889-ND	8.23	7.16	6.45	5.73	RM12BPE-5S
6	Plug with Pin Insert	HR890-ND	8.92	7.55	6.35	5.66	RM12BPE-6PH
6	Plug with Socket Insert	HR891-ND	8.35	7.26	6.54	5.81	RM12BPE-6S
7	Plug with Pin Insert	HR892-ND	8.14	7.08	6.38	5.67	RM12BPE-7PH
7	Plug with Socket Insert	HR893-ND	8.63	7.50	6.75	6.00	RM12BPE-7S
2	Receptacle with Pin Insert	HR221-ND	4.21	3.68	3.06	2.61	RM12BRD-2PH
3	Receptacle with Pin Insert	HR223-ND	4.29	3.75	3.12	2.66	RM12BRD-3PH
4	Receptacle with Pin Insert	HR225-ND	4.46	3.89	3.24	2.76	RM12BRD-4PH
5	Receptacle with Pin Insert	HR227-ND	4.70	4.11	3.42	2.91	RM12BRD-5PH
6	Receptacle with Pin Insert	HR229-ND	4.95	4.32	3.60	3.06	RM12BRD-6PH
7	Receptacle with Pin Insert	HR231-ND	5.31	4.64	3.86	3.29	RM12BRD-7PH
2	Receptacle with Socket Insert	HR220-ND	5.06	4.42	3.68	3.13	RM12BRD-2S
3	Receptacle with Socket Insert	HR222-ND	5.28	4.61	3.84	3.27	RM12BRD-3S
4	Receptacle with Socket Insert	HR224-ND	5.53	4.83	4.02	3.42	RM12BRD-4S
5	Receptacle with Socket Insert	HR226-ND	6.13	5.36	4.46	3.80	RM12BRD-5S
6	Receptacle with Socket Insert	HR228-ND	6.33	5.52	4.60	3.91	RM12BRD-6S
7	Receptacle with Socket Insert	HR230-ND	6.85	5.98	4.98	4.24	RM12BRD-7S
2	Jack with Pin Insert	HR321-ND	6.63	5.79	4.82	4.10	RM12BJB-2PH
3	Jack with Pin Insert	HR323-ND	6.25	5.50	4.88	4.13	RM12BJB-3PH
4	Jack with Pin Insert	HR325-ND	6.33	5.57	4.94	4.18	RM12BJB-4PH
5	Jack with Pin Insert	HR327-ND	6.43	5.66	5.02	4.25	RM12BJB-5PH
6	Jack with Pin Insert	HR329-ND	6.58	5.79	5.13	4.34	RM12BJB-6PH
7	Jack with Pin Insert	HR331-ND	6.83	6.01	5.33	4.51	RM12BJB-7PH
2	Jack with Socket Insert	HR320-ND	8.62	7.54	6.83	5.75	RM12BJB-2S(07)
3	Jack with Socket Insert	HR322-ND	8.93	7.82	7.07	5.96	RM12BJB-3S(07)
4	Jack with Socket Insert	HR324-ND	9.29	8.13	7.36	6.20	RM12BJB-4S(07)
5	Jack with Socket Insert	HR326-ND	9.62	8.43	7.62	6.42	RM12BJB-5S(07)
6	Jack with Socket Insert	HR328-ND	9.59	8.34	7.51	6.68	RM12BJB-6S(07)
7	Jack with Socket Insert	HR330-ND	10.30	9.01	8.16	6.87	RM12BJB-7S(07)

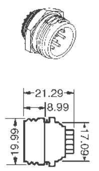
RM Series 15mm Video Connectors

Specifications:
• Operating Voltage: AC350V, DC490V • Current Rating: 5A • Insulation Resistance: 1000MΩ min. at DC500V • Contact Resistance: 14mΩ max. at DC1A • Temp. Cycling: -55°C to +85°C • Applicable Cable Dia.: 8mm max. • Plugs and jacks include rubber boot.

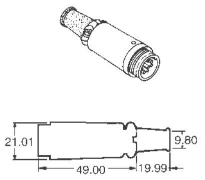
Threaded Plug



Receptacle



Jack



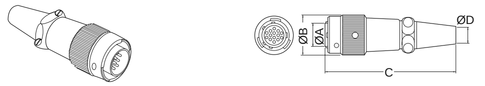
Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
10	Plug with Pin Insert	HR106-ND	10.13	8.87	6.76	RM15TPD-10P
12	Plug with Pin Insert	HR107-ND	10.68	9.35	7.12	RM15TPD-12P
10	Plug with Socket Insert	HR108-ND	11.47	10.04	7.65	RM15TPD-10S
12	Plug with Socket Insert	HR109-ND	10.54	9.29	7.79	RM15TPD-12S
10	Receptacle with Pin Insert	HR206-ND	6.93	6.10	4.58	RM15TRD-10P
12	Receptacle with Pin Insert	HR207-ND	7.40	6.52	4.89	RM15TRD-12P
10	Receptacle with Socket Insert	HR208-ND	6.38	5.61	4.21	RM15TRD-10S
12	Receptacle with Socket Insert	HR209-ND	6.70	5.90	4.43	RM15TRD-12S
10	Jack Extension with Pin Insert	HR306-ND	9.53	8.34	6.36	RM15TJD-10P
12	Jack Extension with Pin Insert	HR307-ND	10.03	8.78	6.69	RM15TJD-12P
10	Jack Extension with Socket Insert	HR308-ND	9.14	8.01	6.10	RM15TJD-10S
12	Jack Extension with Socket Insert	HR309-ND	9.36	8.19	6.24	RM15TJD-12S

JR Series Video Connectors Aluminum

Features:
JR series connectors offer you excellent performances both electrically and mechanically, having five keys in the fitting section to assure quite smooth coupling.

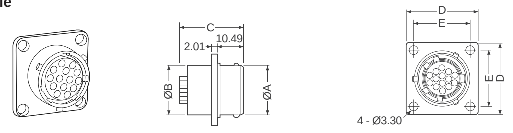
Specifications:
• Withstand Voltage: AC1000V a minute • Insulation Resistance: 1000MΩ min. • Contact Resistance: 5mΩ max.

Plug



No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B	C	D
7	HR138-ND, HR139-ND	16.31	26.97	78.49	11.00
10	HR140-ND, HR141-ND	16.31	26.97	78.49	11.00
14	HR142-ND, HR143-ND	16.31	26.97	78.49	11.00
26	HR144-ND, HR145-ND	20.50	30.99	97.99	12.19

Receptacle



No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B	C	D	E
7	HR146-ND	22.00	19.99	26.49	29.01	23.01
7	HR147-ND	22.00	19.99	27.69	29.01	23.01
10	HR148-ND, HR149-ND	22.00	19.99	26.49	29.01	23.01
14	HR150-ND	22.00	19.99	26.59	29.01	23.01
14	HR151-ND	22.00	19.99	25.78	29.01	23.01
26	HR152-ND	25.81	23.90	26.80	31.98	26.01
26	HR153-ND	25.81	23.90	27.99	31.98	26.01

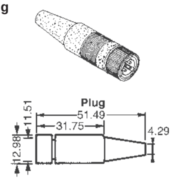
Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
7	Plug with Pin Insert	HR138-ND	16.32	15.36	13.44	JRC16BP-7P
10	Plug with Pin Insert	HR140-ND	16.47	15.51	13.57	JRC16BP-10P
14	Plug with Pin Insert	HR142-ND	15.33	14.44	12.63	JRC16BP-14P
26	Plug with Pin Insert	HR144-ND	24.23	23.42	21.00	JRC21BPA-26P
7	Plug with Socket Insert	HR139-ND	16.00	15.06	13.18	JRC16BP-7S
10	Plug with Socket Insert	HR141-ND	16.26	15.72	14.10	JRC16BP-10S
14	Plug with Socket Insert	HR143-ND	14.96	14.08	12.32	JRC16BP-14S
26	Plug with Socket Insert	HR145-ND	21.56	20.84	18.69	JRC21BP-26S
7	Receptacle with Pin Insert	HR146-ND	10.58	9.27	7.06	JRC16BR-7P
10	Receptacle with Pin Insert	HR148-ND	10.87	9.52	7.25	JRC16BR-10P
14	Receptacle with Pin Insert	HR150-ND	10.94	9.58	7.30	JRC16BR-14P
26	Receptacle with Pin Insert	HR152-ND	13.90	12.25	10.27	JRC21BR-26P
7	Receptacle with Socket Insert	HR147-ND	10.39	9.10	6.93	JRC16BR-7S
10	Receptacle with Socket Insert	HR149-ND	12.26	10.81	9.06	JRC16BR-10S
14	Receptacle with Socket Insert	HR151-ND	10.56	9.24	7.04	JRC16BR-14S
26	Receptacle with Socket Insert	HR153-ND	12.68	11.18	9.37	JRC21BRA-26S

SR30 Series 10mm Min. Microphone Connectors

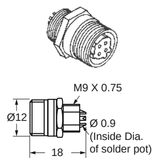
Features:
Standard applicable cable size is the outer diameter 4.2. Male pin: brass + gold plated or silver plated; Female pin: copper alloy + gold plated or silver plated.

Specifications:
• Rated Voltage: AC100V, DC140V • Current Rating: 1A • Insulation Resistance: 200MΩ min. at DC100V
• Contact Resistance: 10mΩ max. at DC1A.

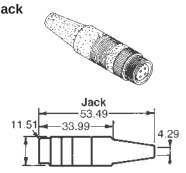
Plug



Receptacle



Jack

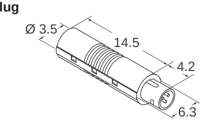


Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	Plug with Pin Insert	HR500-ND	8.08	7.11	5.33	SR30-10PE-4P
6	Plug with Pin Insert	HR501-ND	8.05	7.09	5.32	SR30-10PE-6P
7	Plug with Pin Insert	HR510-ND	8.70	7.66	5.75	SR30-10PF-7P
4	Receptacle with Socket Insert	HR503-ND	6.58	5.79	4.34	SR30-10R-4S
6	Receptacle with Socket Insert	HR504-ND	6.80	5.99	4.49	SR30-10R-6S
7	Receptacle with Socket Insert	HR505-ND	5.69	4.97	3.52	SR30-10R-7S
4	Jack with Socket Insert	HR506-ND	10.99	9.62	7.33	SR30-10JE-4S
6	Jack with Socket Insert	HR507-ND	10.99	9.62	7.33	SR30-10JE-6S
7	Jack with Socket Insert	HR508-ND	10.39	9.10	6.93	SR30-10JF-7S
—	Cable Clamp for SR30 Series	HR509-ND	.45	.32	.22	SR30-P

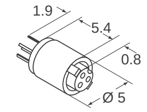
(Continued)

NEW! SR38 Series Microminiature High-Performance

Plug



Receptacle



Features: Microminiature and high density allows space-saving packaging with the ø.53 mm standard dia. (excluding protrusions) body. Highly reliable against external force such as vibration due to the simple locking mechanism guards. Easy to wire and mount plugs: fold-up type, requiring no special tool. Receptacles: circuit board dip type. **Applications:** video equipment, acoustic equipment, measuring instruments, and other electronic equipment.

Contacts	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
3	Plug	HR796-ND	13.74	12.71	11.41	SR38-4P-3P
3	Receptacle	HR797-ND	14.22	13.16	11.81	SR38-4R-3S

HR22 Series High-Performance Compact Circular

The HR22 Series are 20-pin compact circular connectors developed as an interface between machine tool motors and operation panels. With a screw coupling type locking mechanism to prevent unlocking due to motor vibration.

Features: • Anti-Loosening Locking Mechanism. The locking mechanism has an anti-loosening spring in a screw coupling. **Two Types of Termination:** Crimp and Solder Easy Receptacle Mounting. A receptacle may be mounted quickly on a panel by tightening a nut. **• Pin allocation and Major Functions: • Withstand voltage:** AC300V for 1 minimum. **• Current capacity:** 2A **• Insulation resistance:** 1000MΩ or more at DC100V. **• Contact resistance:** 20mΩ or less. **• Solder pot inner diameter:** 0.8

Fig. 1

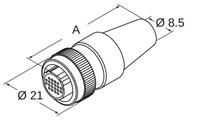


Fig. 2

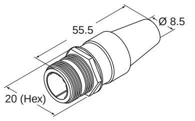


Fig.	No. of Pins	Description	Dim. A mm	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	20	Plug - Female Crimp	—	HR176-ND	14.45	13.60	12.33	HR22-12TPD-20SC
		Plug - Male Crimp	53.5	HR177-ND	14.98	14.10	12.78	HR22-12TPD-20PC
		Plug - Female Solder	—	HR179-ND	28.11	27.18	25.30	HR22-12TPD-20S
		Plug - Male Solder	—	HR180-ND	15.33	14.82	13.80	HR22-12TPD-20P
2	20	Jack - Male Crimp	—	HR181-ND	15.37	14.47	13.11	HR22-12TJD-20PC
		Jack - Male Solder	—	HR182-ND	15.06	14.56	13.56	HR22-12TJD-20P
		Jack - Female Solder	—	HR183-ND	33.75	32.63	30.38	HR22-12TJD-20S
Contact Male Pin AWG 24-28 – Crimp				HR184-ND	.38	.24	.16	HR22-PC-122
Contact Female Pin AWG 24-28 – Crimp				HR185-ND	.41	.26	.17	HR22-SC-122
Tools								
Assembly Wiring Jig for HR22 Series				H9959-ND	201.97 each			HR22-12P-T01
Manual Crimping Tool for HR22 Series - AWG 24-28				H9960-ND	798.06 each			HR22-TA2428HC
Cable Crimping Tool - Wire Dim. 8.5 mm				H9989-ND	328.16 each			HR10A-TC-04

NEW! HR212 Series Microminiature High-Performance

Fig. 1

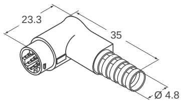


Fig. 2

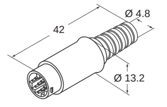


Fig. 3

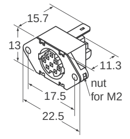


Fig. 4

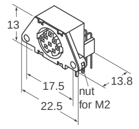


Fig. 5

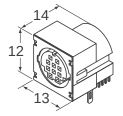
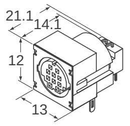


Fig. 6



No. of Pins	Plating	Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Fig. 1 Plug, Right Angle, Solder Type							
8	Tin	Black	HR454-ND	9.00	7.62	6.41	HR212-10LP-8P
8	Tin	Beige	HR455-ND	9.00	7.62	6.41	HR212-10LP-8P(01)
8	Gold	Black	HR456-ND	8.23	7.16	6.45	HR212-10LP-8P(02)
8	Gold	Beige	HR457-ND	8.23	7.16	6.45	HR212-10LP-8P(03)
Fig. 1 Plug, Right Angle, Crimp Type							
5	—	Black	HR458-ND	7.77	6.58	5.54	HR212-10LP-5PC
8	—	Black	HR459-ND	7.77	6.58	5.54	HR212-10LP-8PC
Fig. 2 Plug, Straight, Solder Type							
8	Tin	Black	HR460-ND	8.71	7.37	6.20	HR212-10P-8P
8	Tin	Beige	HR461-ND	8.71	7.37	6.20	HR212-10P-8P(01)
8	Gold	Black	HR462-ND	8.10	7.04	6.34	HR212-10P-8P(02)
8	Gold	Beige	HR463-ND	8.10	7.04	6.34	HR212-10P-8P(03)
Fig. 2 Plug, Straight, Crimp Type							
5	—	Black	HR464-ND	7.46	6.32	5.31	HR212-10P-5C
8	—	Black	HR465-ND	7.46	6.32	5.31	HR212-10P-8PC
8	—	Beige	HR466-ND	7.46	6.32	5.31	HR212-10P-8PC(01)
10	—	Black	HR467-ND	7.77	6.58	5.54	HR212-10P-10PC
10	—	Beige	HR468-ND	7.77	6.58	5.54	HR212-10P-10PC(01)
Fig. 3 Receptacle, Panel Mount, Crimp Type							
8	—	Black	HR469-ND	2.99	2.48	2.06	HR212-10R-8SC
8	—	Beige	HR470-ND	2.99	2.48	2.06	HR212-10R-8SC(01)
Fig. 3 Receptacle, Vertical, PCB Type							
8	Tin	Black	HR471-ND	4.79	3.96	3.30	HR212-10R-8SD(02)
8	Gold	Beige	HR472-ND	5.37	4.44	3.70	HR212-10R-8SD(01)
Fig. 4 Receptacle, Right Angle, PCB Type							
5	Tin	Black	HR473-ND	4.58	3.80	3.16	HR212-10R-5SDL(02)
8	Tin	Black	HR474-ND	4.70	3.89	3.24	HR212-10R-8SDL(02)
8	Gold	Black	HR475-ND	5.37	4.44	3.70	HR212-10R-8SDL(04)
8	Gold	Beige	HR476-ND	5.37	4.44	3.70	HR212-10R-8SDL(01)
Fig. 5 Receptacle, Right Angle, PCB Type							
8	Tin	Black	HR477-ND	5.66	4.68	3.90	HR212-10RA-8SDL(03)
8	Gold	Beige	HR478-ND	6.06	5.02	4.18	HR212-10RA-8SDL(01)
8	Gold	Black	HR479-ND	6.24	5.16	4.30	HR212-10RA-8SDL(02)
Fig. 6 Receptacle, Right Angle, PCB Type							
10	Gold	Black	HR480-ND	8.65	7.52	6.77	HR212-10RC-10SDL(02)

HR25 Series

World's Smallest Round Type Multiple Contact Connectors

The HR25 is the world's smallest high-density round type connector. It was developed using Hirose Electric's long experience with miniaturization technology in answer to the continuing need for the ever greater miniaturization and high-density construction of a wide variety of electronic equipment. The voltage used should be less than 30V AC or 42V DC. Wire AWG 30.

Applications: • CCD cameras, measuring instruments, wide variety of sensors, mobile radio, medical equipment.

Material: • Insulation: PPS resin, black • Contacts: Phosphor bronze, Gold and partial gold plating • Shell: Brass and zinc alloy, Nickel plating

Ratings: • Current capacity 1A • Insulation resistance 1000 MΩ or greater • Contact resistance 30 mΩ • Solder pot inside diameter 0.5 mm

Fig. 1

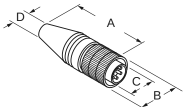


Fig. 2

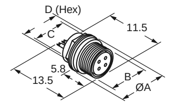


Fig. 3

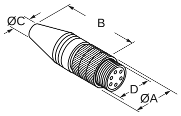


Fig. 4

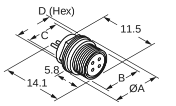


Fig. 5

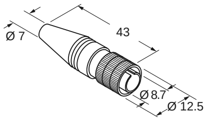


Fig. 6

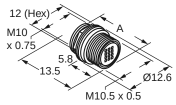


Fig. 7

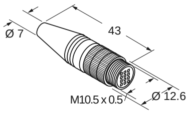


Fig. 8

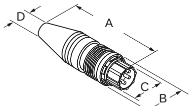


Fig. 9

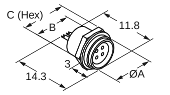


Fig. 10

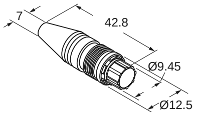


Fig. 11

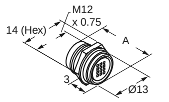
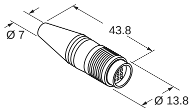


Fig. 12



# of Cont.	Shell Size	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
Fig. 1 Plugs Screw Lock - Male Solder Type											
4	7	35	10.5	6.7	5	HR700-ND	16.18	15.24	13.81	13.33	HR25-7TP-4P
6	7	35	10.5	6.7	5	HR701-ND	15.77	15.24	14.19	13.67	HR25-7TP-6P
8	7	35	10.5	6.7	5	HR702-ND	16.80	16.24	15.12	14.56	HR25-7TP-8P
12	9	43	12.5	8.7	7	HR703-ND	28.07	27.13	25.26	24.33	HR25-9TP-12P
16	9	43	12.5	8.7	7	HR704-ND	30.11	29.11	27.10	26.10	HR25-9TP-16P
20	9	43	12.5	8.7	7	HR705-ND	32.25	31.18	29.03	27.95	HR25-9TP-20P
Fig. 1 Plugs Screw Lock - Female Solder Type											
4	7	35	10.5	6.7	5	HR706-ND	15.84	14.92	13.52	13.05	HR25-7TP-4S
6	7	35	10.5	6.7	5	HR707-ND	15.06	14.56	13.56	13.06	HR25-7TP-6S
8	7	35	10.5	6.7	5	HR708-ND	17.61	17.03	15.85	15.27	HR25-7TP-8S
12	9	43	12.5	8.7	7	HR709-ND	22.13	21.39	19.92	19.18	HR25-9TP-12S
16	9	43	12.5	8.7	7	HR710-ND	23.04	22.28	20.74	19.97	HR25-9TP-16S
20	9	43	12.5	8.7	7	HR711-ND	23.87	23.07	21.48	20.69	HR25-9TP-20S

(Continued)

# of Cont.	Shell Size	Dimensions (mm)				Digi-Key Part No.	Price Each				Hirose Part No.
		A	B	C	D		1	10	50	100	
Fig. 2 Receptacles Screw Lock - Male Solder Cup Type											
4	7	10.6	M8.5x0.5	M8x0.5	10	HR712-ND	14.91	13.14	11.79	11.01	HR25-7TR-4P
6	7	10.6	M8.5x0.5	M8x0.5	10	HR713-ND	13.11	12.34	11.18	10.80	HR25-7TR-6P
8	7	10.6	M8.5x0.5	M8x0.5	10	HR714-ND	14.28	13.44	12.18	11.76	HR25-7TR-8P
12	9	12.6	M10.5x0.5	M10x0.75	12	HR715-ND	17.84	17.25	16.06	15.46	HR25-9TR-12P
16	9	12.6	M10.5x0.5	M10x0.75	12	HR716-ND	19.56	18.91	17.61	16.96	HR25-9TR-16P
20	9	12.6	M10.5x0.5	M10x0.75	12	HR717-ND	20.88	20.19	18.80	18.10	HR25-9TR-20P
Fig. 2 Receptacles Screw Lock - Female Solder Cup Type											
4	7	10.6	M8.5x0.5	M8x0.5	10	HR718-ND	14.47	12.75	11.44	10.68	HR25-7TR-4S
6	7	10.6	M8.5x0.5	M8x0.5	10	HR719-ND	15.20	13.40	12.02	11.23	HR25-7TR-6S
8	7	10.6	M8.5x0.5	M8x0.5	10	HR720-ND	12.89	12.13	11.00	10.62	HR25-7TR-8S
12	9	12.6	M10.5x0.5	M10x0.75	12	HR721-ND	14.84	13.73	12.32	11.51	HR25-9TR-12S
16	9	12.6	M10.5x0.5	M10x0.75	12	HR722-ND	13.62	12.82	11.62	11.22	HR25-9TR-16S
20	9	12.6	M10.5x0.5	M10x0.75	12	HR723-ND	15.08	14.20	12.87	12.42	HR25-9TR-20S
Fig. 3 Jacks Screw Lock - Male Solder Type											
4	7	10.6	35	5	M8.5x0.5	HR724-ND	16.83	15.84	14.36	13.86	HR25-7TJ-4P
6	7	10.6	35	5	M8.5x0.5	HR725-ND	15.77	15.24	14.19	13.67	HR25-7TJ-6P
8	7	10.6	35	5	M8.5x0.5	HR726-ND	16.80	16.24	15.12	14.56	HR25-7TJ-8P
12	9	12.6	43	7	M10.5x0.5	HR727-ND	28.07	27.13	25.26	24.33	HR25-9TJ-12P
16	9	12.6	43	7	M10.5x0.5	HR728-ND	30.11	29.11	27.10	26.10	HR25-9TJ-16P
20	9	12.6	43	7	M10.5x0.5	HR729-ND	32.25	31.18	29.03	27.95	HR25-9TJ-20P
Fig. 3 Jacks Screw Lock - Female Solder Type											
4	7	10.6	35	5	M8.5x0.5	HR730-ND	15.05	14.16	12.84	12.39	HR25-7TJ-4S
6	7	10.6	35	5	M8.5x0.5	HR731-ND	15.06	14.56	13.56	13.06	HR25-7TJ-6S
8	7	10.6	35	5	M8.5x0.5	HR732-ND	15.57	15.06	14.02	13.50	HR25-7TJ-8S
12	9	12.6	43	7	M10.5x0.5	HR733-ND	22.13	21.39	19.92	19.18	HR25-9TJ-12S
16	9	12.6	43	7	M10.5x0.5	HR734-ND	23.04	22.28	20.74	19.97	HR25-9TJ-16S
20	9	12.6	43	7	M10.5x0.5	HR735-ND	23.87	23.07	21.48	20.69	HR25-9TJ-20S
Fig. 4 Receptacles Screw Lock - Male PCB Type											
4	7	10.6	M8.5x0.5	M8x0.5	10	HR736-ND	14.91	13.14	11.79	11.01	HR25-7TR-4PA
6	7	10.6	M8.5x0.5	M8x0.5	10	HR737-ND	13.11	12.34	11.18	10.80	HR25-7TR-6PA
8	7	10.6	M8.5x0.5	M8x0.5	10	HR738-ND	14.28	13.44	12.18	11.76	HR25-7TR-8PA
12	9	12.6	M10.5x0.5	M10x0.75	12	HR739-ND	17.51	16.93	15.76	15.18	HR25-9TR-12PA
16	9	12.6	M10.5x0.5	M10x0.75	12	HR740-ND	19.56	18.91	17.61	16.96	HR25-9TR-16PA
20	9	12.6	M10.5x0.5	M10x0.75	12	HR741-ND	21.71	20.99	19.54	18.82	HR25-9TR-20PA
Fig. 4 Receptacles Screw Lock - Female PCB Type											
4	7	10.6	M8.5x0.5	M8x0.5	10	HR742-ND	14.47	12.75	11.44	10.68	HR25-7TR-4SA
6	7	10.6	M8.5x0.5	M8x0.5	10	HR743-ND	15.20	13.40	12.02	11.23	HR25-7TR-6SA
8	7	10.6	M8.5x0.5	M8x0.5	10	HR744-ND	12.89	12.13	11.00	10.62	HR25-7TR-8SA
12	9	12.6	M10.5x0.5	M10x0.75	12	HR745-ND	13.11	12.34	11.18	10.80	HR25-9TR-12SA
16	9	12.6	M10.5x0.5	M10x0.75	12	HR746-ND	14.16	13.33	12.08	11.67	HR25-9TR-16SA
20	9	12.6	M10.5x0.5	M10x0.75	12	HR747-ND	15.08	14.20	12.87	12.42	HR25-9TR-20SA
Fig. 5 Plugs Screw Lock - Male Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR748-ND	20.58	19.90	18.53	17.84	HR25-9TP-12PC
16	9	—	—	—	—	HR749-ND	20.90	20.20	18.81	18.11	HR25-9TP-16PC
20	9	—	—	—	—	HR750-ND	21.20	20.49	19.08	18.37	HR25-9TP-20PC
Fig. 5 Plugs Screw Lock - Female Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR751-ND	20.58	19.90	18.53	17.84	HR25-9TP-12SC
16	9	—	—	—	—	HR752-ND	20.90	20.20	18.81	18.11	HR25-9TP-16SC
20	9	—	—	—	—	HR753-ND	21.20	20.49	19.08	18.37	HR25-9TP-20SC
Fig. 6 Receptacles Screw Lock - Male Crimp Type (Contacts sold separately)											
12	9	13	—	—	—	HR754-ND	14.05	12.38	11.11	10.37	HR25-9TR-12PC
16	9	13	—	—	—	HR755-ND	14.47	12.75	11.44	10.68	HR25-9TR-16PC
20	9	13	—	—	—	HR756-ND	14.91	13.14	11.79	11.01	HR25-9TR-20PC
Fig. 6 Receptacles Screw Lock - Female Crimp Type (Contacts sold separately)											
12	9	11.5	—	—	—	HR757-ND	14.05	12.38	11.11	10.37	HR25-9TR-12SC
16	9	11.5	—	—	—	HR758-ND	14.47	12.75	11.44	10.68	HR25-9TR-16SC
20	9	11.5	—	—	—	HR759-ND	14.91	13.14	11.79	11.01	HR25-9TR-20SC
Fig. 7 Jacks Screw Lock - Male Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR760-ND	20.58	19.90	18.53	17.84	HR25-9TJ-12PC
16	9	—	—	—	—	HR761-ND	20.90	20.20	18.81	18.11	HR25-9TJ-16PC
20	9	—	—	—	—	HR762-ND	21.20	20.49	19.08	18.37	HR25-9TJ-20PC
Fig. 7 Jacks Screw Lock - Female Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR763-ND	20.58	19.90	18.53	17.84	HR25-9TJ-12SC
16	9	—	—	—	—	HR764-ND	20.90	20.20	18.81	18.11	HR25-9TJ-16SC
20	9	—	—	—	—	HR765-ND	21.20	20.49	19.08	18.37	HR25-9TJ-20SC
Fig. 8 Plugs Push Pull Lock- Male Solder Type											
4	7	34.8	10.5	7.45	5	HR766-ND	19.16	18.52	17.24	16.61	HR25-7P-4P
6	7	34.8	10.5	7.45	5	HR767-ND	20.07	19.41	18.07	17.40	HR25-7P-6P
8	7	34.8	10.5	7.45	5	HR768-ND	21.09	20.39	18.99	18.28	HR25-7P-8P
12	9	42.8	12.5	9.45	7	HR769-ND	30.42	29.41	27.38	26.37	HR25-9P-12P
16	9	42.8	12.5	9.45	7	HR770-ND	32.46	31.38	29.22	28.14	HR25-9P-16P
20	9	42.8	12.5	9.45	7	HR771-ND	34.61	33.46	31.15	30.00	HR25-9P-20P
Fig. 8 Plugs Push Pull Lock - Female Solder Type											
4	7	34.8	10.5	7.45	5	HR772-ND	18.03	17.43	16.23	15.63	HR25-7P-4S
6	7	34.8	10.5	7.45	5	HR773-ND	19.25	18.61	17.33	16.68	HR25-7P-6S
8	7	34.8	10.5	7.45	5	HR774-ND	19.77	19.12	17.80	17.14	HR25-7P-8S
12	9	42.8	12.5	9.45	7	HR775-ND	24.48	23.67	22.04	21.22	HR25-9P-12S
16	9	42.8	12.5	9.45	7	HR776-ND	25.40	24.55	22.86	22.01	HR25-9P-16S
20	9	42.8	12.5	9.45	7	HR777-ND	26.22	25.35	23.60	22.73	HR25-9P-20S
Fig. 9 Receptacles Push Pull Lock- Male Solder Cup Type											
4	7	11	M10x0.75	12	—	HR778-ND	12.89	12.13	11.00	10.62	HR25-7R-4P
6	7	11	M10x0.75	12	—	HR779-ND	13.92	13.11	11.88	11.47	HR25-7R-6P
8	7	11	M10x0.75	12	—	HR780-ND	15.08	14.20	12.87	12.42	HR25-7R-8P
12	9	13	M13x0.75	14	—	HR781-ND	20.07	19.41	18.07	17.40	HR25-9R-12P
16	9	13	M13x0.75	14	—	HR782-ND	22.13	21.39	19.92	19.18	HR25-9R-16P
20	9	13	M13x0.75	14	—	HR783-ND	24.27	23.47	21.85	21.04	HR25-9R-20P
Fig. 9 Receptacles Push Pull Lock - Female Solder Cup Type											
4	7	11	M10x0.75	12	—	HR784-ND	15.33	13.51	12.12	11.32	HR25-7R-4S
6	7	11	M10x0.75	12	—	HR785-ND	13.01	12.24	11.10	10.71	HR25-7R-6S
8	7	11	M10x0.75	12	—	HR786-ND	13.58	12.79	11.59	11.19	HR25-7R-8S
12	9	13	M13x0.75	14	—	HR787-ND	16.01	15.08	13.66	13.19	HR25-9R-12S
16	9	13	M13x0.75	14	—	HR788-ND	15.06	14.56	13.56	13.06	HR25-9R-16S
20	9	13	M13x0.75	14	—	HR789-ND	15.87	15.35	14.29	13.76	HR25-9R-20S
Fig. 10 Plugs Push Pull Lock - Male Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR790-ND	22.94	22.18	20.65	19.88	HR25-9P-12PC
16	9	—	—	—	—	HR791-ND	23.25	22.48	20.93	20.15	HR25-9P-16PC
20	9	—	—	—	—	HR792-ND	23.55	22.77	21.20	20.41	HR25-9P-20PC
Fig. 10 Plugs Push Pull Lock - Female Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR793-ND	22.94	22.18	20.65	19.88	HR25-9P-12SC
16	9	—	—	—	—	HR794-ND	23.25	22.48	20.93	20.15	HR25-9P-16SC
20	9	—	—	—	—	HR795-ND	23.55	22.77	21.20	20.41	HR25-9P-20SC
NEW! Fig. 11 Recept. Push Pull Lock - Male Crimp Type (Contacts sold separately)											
12	9	13.8	—	—	—	HR520-ND	14.28	13.44	12.18	11.76	HR25-9R-12PC
16	9	13.8	—	—	—	HR521-ND	14.62	13.76	12.47	12.04	HR25-9R-16PC
20	9	13.8	—	—	—	HR522-ND	14.98	14.10	12.78	12.34	HR25-9R-20PC
NEW! Fig. 11 Recept. Push Pull Lock - Male Solder Type (Contacts sold separately)											
4	7	11	M10x0.75	11	—	HR412-ND	13.11	12.34	11.18	10.80	HR25-7R-4PA
6	7	11	M10x0.75	11	—	HR414-ND	14.21	13.38	12.13	11.71	HR25-7R-6PA
8	7	11	M10x0.75	11	—	HR416-ND	15.44	14.53	13.17	12.72	HR25-7R-8PA
12	9	13	M12x0.75	14	—	HR424-ND	20.52	19.84	18.47	17.79	HR25-9R-12PA
16	9	13	M12x0.75	14	—	HR426-ND	22.58	21.83	20.32	19.57	HR25-9R-16PA
20	9	13	M12x0.75	14	—	HR428-ND	24.74	23.92	22.27	21.44	HR25-9R-20PA
NEW! Fig. 11 Recept. Push Pull Lock - Female Crimp Type (Contacts sold separately)											
12	9	11.8	—	—	—	HR523-ND	14.28	13.44	12.18	11.76	HR25-9R-12SC
16	9	11.8	—	—	—	HR524-ND	14.62	13.76	12.47	12.04	HR25-9R-16SC
20	9	11.8	—	—	—	HR525-ND	14.98	14.10	12.78	12.34	HR25-9R-20SC
NEW! Fig. 11 Recept. Push Pull Lock - Female Solder Type (Contacts sold separately)											
4	7	11	M10x0.75	12	—	HR413-ND	14.94	13.82	12.41	11.58	HR25-7R-4SA
6	7	11	M10x0.75	12	—	HR415-ND	13.31	12.53	11.36	10.97	HR25-7R-6SA
8	7	11	M10x0.75	12	—	HR417-ND	13.80	13.00	11.78	11.37	HR25-7R-8SA
12	9	13	M12x0.75	14	—	HR425-ND	16.35	15.40	13.95	13.47	HR25-9R-12SA
16	9	13	M12x0.75	14	—	HR427-ND	15.32	14.81	13.79	13.28	HR25-9R-16SA
20	9	13	M12x0.75	14	—	HR429-ND	16.22	15.68	14.60	14.06	HR25-9R-20SA
NEW! Fig. 12 Jacks Push Pull Lock - Male Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR526-ND	22.94	22.18	20.65	19.88	HR25-9J-12PC
16	9	—	—	—	—	HR527-ND	23.25	22.48	20.93	20.15	HR25-9J-16PC
20	9	—	—	—	—	HR528-ND	23.55	22.77	21.20	20.41	HR25-9J-20PC
NEW! Fig. 12 Jacks Push Pull Lock - Male Solder Type (Contacts sold separately)											
4	7	11.8	35.8	5	—	HR406-ND	19.44	18.80	17.50	16.85	HR25-7J-4P
6	7	11.8	35.8	5	—	HR408-ND	20.52	19.84	18.47	17.79	HR25-7J-6P
8	7	11.8	35.8	5	—	HR410-ND	21.51	20.80	19.36	18.65	HR25-7J-8P
12	9	13.8	43.8	7	—	HR418-ND	31.10	30.06	27.99	26.95	HR24-9J-12P
16	9	13.8	43.8	7	—	HR420-ND	33.15	32.05	29.84	28.73	HR25-9J-16P
20	9	13.8	43.8	7	—	HR422-ND	35.30	34.12	31.77	30.59	HR25-9J-20P
NEW! Fig. 12 Jacks Push Pull Lock - Female Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR529-ND	22.94	22.18	20.65	19.88	HR25-9J-12SC
16	9	—	—	—	—	HR530-ND	23.25	22.48	20.93	20.15	HR25-9J-16SC
20	9	—	—	—	—	HR531-ND	23.55	22.77	21.20	20.41	HR25-9J-20SC
NEW! Fig. 12 Jacks Push Pull Lock - Female Solder Type (Contacts sold separately)											
4	7	11.8	35.8	5	—	HR407-ND	19.08	18.45	17.18	16.54	HR25-7J-4S
6	7	11.8	35.8	5	—	HR409-ND	19.71	19.06	17.74	17.09	HR25-7J-6S
8	7	11.8	35.8	5	—	HR411-ND	20.07	19.41	18.07	17.40	HR25-7J-8S
12	9	13.8	43.8	7	—	HR419-ND	25.01	24.18	22.51	21.68	HR25-9J-12S
16	9	13.8	43.8	7	—	HR421-ND	25.89	25.03	23.31	22.44	HR25-9J-16S
20	9	13.8	43.8	7	—	HR423-ND	26.79	25.90	24.12	23.22	HR25-9J-20S

Des-crip-tion	Digi-Key Part No.	*Loose Piece* Price Each 100	Hirose Part No.	*Cut Tape** Price Each			*Tape & Reel* † Pricing 10,000	Hirose Part No.
				1	10	50		
Crimp -Style Contacts - Male								
30-32	HR532-ND	.19	HR25-PC-111	.58	.36	.24	80.22/M	HR25-PC-211
Crimp -Style Contacts - Female								
30-32	HR536-ND	.19	HR25-5C-111	.58	.36	.24	80.22/M	HR25-5C-211
Tool for HR25 Series								
Manual Crimp Tool			H9975-ND	1344.10 each				HR25-TA3032HC

* For Cut Tape, add "CT" to the Digi-Key Part No. (HR532CT-ND)
† For Tape & Reel, add "TR" to the Digi-Key Part No. (HR532TR-ND)

(Continued)

RP13A Series

Push-Pull Lock Connectors

Performance:

Withstanding Voltage: AC 300 minimum
Current Rating: 2A (AWG #24)
Insulation: 1000 MΩ max (DC250V)
Contact: 15 mΩ minimum (DC 1A)

Features: Single motion push-pull locking mechanism provides improved quick inserting/extracting capability. Multi-slot key mating guide prevents mis-insertion. Outer shell, made of strong glass fiber polycarbonate resin, is lightweight yet rigid. As the cable connection method, crimping is used for plug, and crimping and PCB dip for receptacle.

Fig. 1

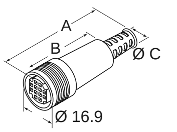


Fig. 2

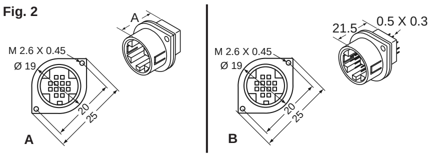


Fig. 3

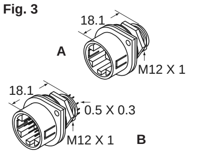


Fig. 4

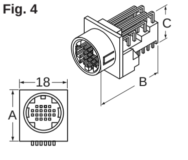
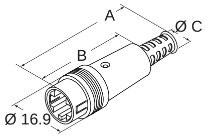


Fig. 5



# of Pins	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Fig. 1 - Plug with Female Terminal – Crimp								
13	47.2	32	6.1	HR242-ND	4.96	4.11	3.42	RP13A-12PA-13SC
13	47.2	32	5.7	HR243-ND	4.70	3.89	3.24	RP13A-12PB-13SC
13	52.2	37	6.1	HR244-ND	5.13	4.25	3.54	RP13A-12PD-13SC
13	47.2	32	6.4	HR245-ND	4.70	3.89	3.24	RP13A-12PE-13SC
13	52.2	37	7.1	HR246-ND	4.70	3.89	3.24	RP13A-12PK-13SC
13	52.2	37	8.1	HR247-ND	4.70	3.89	3.24	RP13A-12PS-13SC
15	52.2	37	6.1	HR248-ND	4.99	4.13	3.44	RP13A-12PD-15SC
15	52.2	37	7.1	HR249-ND	4.99	4.13	3.44	RP13A-12PK-15SC
15	52.2	37	7.5	HR250-ND	4.99	4.13	3.44	RP13A-12PP-15SC
20	52.2	37	6.1	HR251-ND	7.62	6.45	5.43	RP13A-12PD-20SC
20	52.2	37	7.5	HR252-ND	7.62	6.45	5.43	RP13A-12PG-20SC
20	47.2	32	6.4	HR253-ND	7.46	6.32	5.31	RP13A-12PH-20SC
20	52.2	37	7.1	HR254-ND	7.62	6.45	5.43	RP13A-12PK-20SC
20	47.2	32	4.7	HR255-ND	7.46	6.32	5.31	RP13A-12PO-20SC
20	52.2	37	8.1	HR256-ND	8.19	6.93	5.83	RP13A-12PS-20SC
Fig. 2A - Receptacle (Flange Type) with Male Terminal – Crimp								
13	18.1	—	—	HR257-ND	2.31	1.92	1.60	RP13A-12RA-13PC
15	18.1	—	—	HR258-ND	2.41	2.00	1.67	RP13A-12RA-15PC
20	16	—	—	HR259-ND	4.58	3.80	3.16	RP13A-12RA-20PC
Fig. 2B - Receptacle (Flange Type) with Male Terminal – Dip								
13	—	—	—	HR260-ND	4.15	3.44	2.86	RP13A-12RA-13PA
15	—	—	—	HR261-ND	5.97	4.95	4.12	RP13A-12RA-15PA
Fig. 3A - Receptacle (Jam Nut Fastening Type) with Male Terminal – Crimp								
13	—	—	—	HR262-ND	2.28	1.89	1.58	RP13A-12RB-13PC
Fig. 3B - Receptacle (Jam Nut Fastening Type) with Male Terminal – Dip								
13	—	—	—	HR263-ND	4.15	3.44	2.86	RP13A-12RB-13PA
Fig. 4 - Right Angle Dip with Male Terminal								
13	17.5	23.5	13	HR264-ND	8.11	6.87	5.78	RP13A-12RC-13PB
20	19.5	31.5	15	HR265-ND	8.60	7.48	6.74	RP13A-12RC-20PB
Fig. 5 - Jack with Male Terminal – Crimp								
13	49.1	34.6	6.1	HR266-ND	5.77	4.78	3.98	RP13A-12J-13PC
15	54.1	39.6	6.1	HR267-ND	6.32	5.24	4.36	RP13A-12JD-15PC
15	54.1	39.6	7.1	HR268-ND	6.32	5.24	4.36	RP13A-12JK-15PC
20	52.6	37.4	7.4	HR269-ND	10.72	9.92	8.90	RP13A-12JG-20PC
Pins For 13 and 15 Contacts								
Male - Gold Plating, 24-28 AWG				HR270-ND	.60	.38	.25	RP13-PC-121
Male - Silver Plating, 24-28 AWG				HR271-ND	.41	.26	.18	RP13-PC-122
Female - Gold Plating, 24-28 AWG				HR272-ND	.43	.31	.24	RP13A-SC-121
Female - Silver Plating, 24-28 AWG				HR273-ND	.44	.28	.19	RP13A-SC-122
Pins for Size 13 Superthick Wires								
Male - Silver Plating, 18-22 AWG				HR274-ND	.38	.24	.16	RP13-PC-112
Female - Silver Plating, 18-22 AWG				HR275-ND	.44	.28	.19	RP13A-SC-112
Pins for 20 Contact								
Male - Silver Plating 18-22 AWG				HR276-ND	.35	.22	.15	RP19-PC-112
Female - Silver Plating 18-22 AWG				HR277-ND	.35	.22	.15	RP19-SC-112
Male - Gold Plating 24-30 AWG				HR278-ND	.44	.31	.24	RP19-PC-121
Female - Gold Plating 24-30 AWG				HR279-ND	.44	.31	.24	RP19-SC-121
Male - Silver Plating 24-30 AWG				HR280-ND	.35	.22	.15	RP19-PC-122
Female - Silver Plating 24-30 AWG				HR281-ND	.35	.22	.15	RP19-SC-122

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Tools			
Manual Crimping Tool for RP13 Series 18-22 AWG	H9973-ND	487.02	RP13-TC-11
Manual Crimping Tool for RP13 Series 24-28 AWG	H9972-ND	487.02	RP13-TC-12
Manual Crimping Tool for RP13A Series 18-22 AWG	H9971-ND	487.02	RP13A-TC-11
Manual Crimping Tool for RP13A Series 24-28 AWG	H9970-ND	487.02	RP13A-TC-12

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Manual Crimping Tool for RP19 Series 18-22 AWG	H9969-ND	615.94	RP19-TC-11
Manual Crimping Tool for RP19 Series 24-30 AWG	H9968-ND	615.94	RP19-TC-12
Cable Crimping Tool for RP13A Series - Wire Dim. 7.3-8.3 mm	H9967-ND	601.61	RP13A-TC-01
Cable Crimping Tool for RP13A Series - Wire Dim. 7.5-8.6 mm	H9966-ND	601.61	RP13A-TC-02
Extractor - Male Term. RP13 Extractor - Female Term. RP13A	H9965-ND H9964-ND	6.09 4.06	RP13-PC-TP RP13A-SC-TP

RP17 Series

Push-Pull Lock Connectors

Contact Arrangement:

- **Withstanding Voltage:** AC 1000V for 1 minute
- **Current Capacity:** 5A (AWG18-22) Fits contact No. 2,11, 12 2A (AWG24-30) Fits contact #1, 3, 4, 5, 6, 7, 8, 9, 10
- **Insulation Resistance:** 1000 MΩ minimum at DC500V
- **Contact Resistance:** 15mΩ max at DC1A
- **Applicable Wire:** AWG18-22 (Large barrel) AWG24-30 (Small barrel)

Features: One touch "push-pull lock" coupling mechanism assures easy and quick connection and disconnection. Use applicable cable • AWG18-22 (shielded outer diameter. 1.7mm under) to 3 pins among 12 pins and other applicable cable • AWG24-30 (shielded outer diameter. 1.2mm under) to be usable due to crimp terminal. Mating guide keys is multiple polarizing to be ensured specified position. Simple and slender appearance with internal installed cable clamp. External appearance is matte finish black color. Mating position mark is located with white color, assures easy and quick connection and disconnection.

Fig. 1

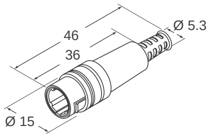


Fig. 2

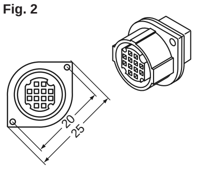


Fig. 3

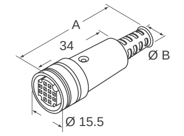


Fig.	No. of Pins	Description	Dim. mm A	B	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	12	Plug - Male Crimp	—	—	HR282-ND	4.70	3.89	3.24	RP17-13P-12PC
		Plug (ESD) Male Crimp	—	—	HR283-ND	5.77	4.78	3.98	RP17A-13P-12PC
2	12	Recept. - Female Crimp	—	—	HR284-ND	1.82	1.52	1.26	RP17-13R-12SC
		Recept. - Female Dip	—	—	HR285-ND	4.70	3.89	3.24	RP17-13RA-12SD
		Recept. (ESD) Female Dip	—	—	HR286-ND	5.42	4.49	3.74	RP17A-13RA-12SD
3	12	Jack - Female Crimp	44	5.3	HR287-ND	7.22	5.98	4.98	RP17-13J-12SC
		Jack - Female Crimp	49	5.1	HR288-ND	6.87	5.69	4.74	RP17-13JA-12SC
Contacts									
Male Pin AWG 18-22					HR289-ND	.44	.28	.19	RP17-PC-112
Male Pin AWG 24-30					HR290-ND	.44	.28	.19	RP17-PC-122
Female Pin AWG 18-22					HR291-ND	.48	.30	.20	RP17-SC-112
Female Pin AWG 24-30					HR292-ND	.48	.30	.20	RP17-SC-122
Tools									
Manual Crimping Tool for AWG 18-22					H9963-ND		487.02		RP17-TC-11
Manual Crimping Tool for AWG 24-30					H9962-ND		487.02		RP17-TC-12
Cable Crimping Tool					H9961-ND		290.06		RP17-TC-01

RP Series Plastic Connectors

12mm Connectors Panel Mount

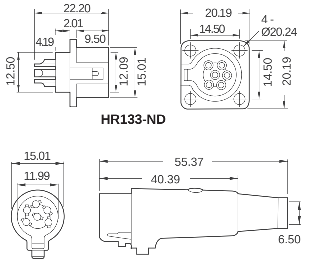
Specifications:

- Operating Voltage: AC150V (6, 7 pin), AC250V (3 pin)
- Current Rating: 5A
- Contact Resistance: 5mΩ max. at DC1A

Materials:

- Male Pin: Brass and silver plating
- Female Pin:
  Phosphor bronze and silver plating

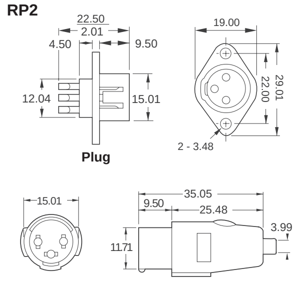
RP1



HR133-ND

HR132-ND

RP2



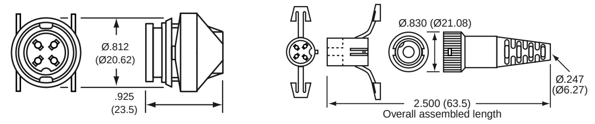
Plug

Receptacle

Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
RP1 Series, 12mm						
6	Plug with Pin Insert	HR133-ND	2.31	1.92	1.42	RPC1-12RB-6P
6	Receptacle with Socket Insert	HR132-ND	4.87	4.25	3.01	RPC1-12P-6S(03)
RP2 Series, 12mm						
3	Plug with Pin Insert	HR135-ND	1.86	1.45	1.11	RPC2-12RB-3P(01)
7	Plug with Pin Insert	HR137-ND	2.83	2.35	1.74	RPC2-12RB-7P(01)
3	Receptacle with Socket Insert	HR134-ND	2.83	2.35	1.74	RPC2-12P-3S
7	Receptacle with Socket Insert	HR136-ND	3.63	3.17	2.25	RPC2-12P-7S

Audio / Instrument Connectors (DIN Type)

Audio/Instrument connectors are economical, quick connect/disconnect attachments for audio and instrument cable having small, flexible, stranded wire conductors. These versatile connectors are ideally suited for application in citizens' band (CB) radios, test equipment, computer input terminals and industrial control equipment.
Material & Finish: Plug/Receptacle: Thermoplastic, black Contacts: Brass, plated. Tin over nickel.

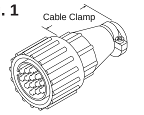


Receptacle Housing Contact Housing Cord Guard

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
		Plug Assemblies				
4	Contact Housing	A25074-ND	1.58	1.47	1.29	207313-1
5	Contact Housing	A25075-ND	1.10	1.02	.89	207488-1
6	Contact Housing	A25076-ND	2.08	1.93	1.69	207332-1
—	Cord Guard	A25077-ND	1.26	1.17	1.03	207314-1
		Receptacle				
4	Receptacle Housing	A25078-ND	2.27	2.11	1.84	207316-1
5	Receptacle Housing	A25079-ND	2.43	2.26	1.97	207487-1
6	Receptacle Housing	A25080-ND	2.27	2.11	1.85	207333-1
		Crimp Contacts — 22-28 AWG				
—	Pin, Diameter .058" (1.47mm), Loose	A25082-ND	.28	.27	.23	207438-3
—	Socket, Loose	A25083-ND	.30	.29	.25	207437-3
		Tool				
—	Contact Extraction Tool	A25081-ND	84.21	—	—	91136-1

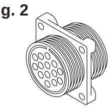
MIL-C-5015 Style Circular Plastic Connectors - Shell Size 20-14

Fig. 1



Reverse Sex

Fig. 2



Reverse Sex

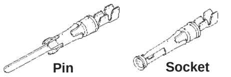
UL File No. E28476 CSA File No. LR7189
Standard Sex: Pin contacts in receptacle housings; socket contacts in plug housings.
Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	Plug Kit, Unassembled				
1	Reverse Sex w/o Cable Clamp Standard Sex w/o Cable Clamp	A25015-ND A25016-ND	12.22 12.33	11.58 11.69	213571-2 213652-1
	Cable Clamps - Shell Size 17				
1	O.D. .453" (11.51mm), for use with 213652-1 O.D. .703" (17.86mm), for use with 213571-2	A1332-ND A1689-ND	2.45 2.76	2.33 2.61	206070-1 206322-1
	Receptacle, Square Flange				
2	Reverse Sex Standard Sex	A25017-ND A25018-ND	7.09 6.95	6.72 6.59	213570-1 213651-1

MIL-C-5015 Style Contacts

Crimp Style, Type III+

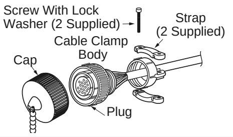
Contact Finish: A: 30µ gold on the electrical engagement area over 50µ nickel **B:** Tin **C:** 30µ selective gold over 30µ nickel



AWG Desc.	Con. mm	Fin.	Digi-Key Part No.	Loose Pc. Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 10	100	Tape & Reel* 4,000	AMP Part No.
				Insulation Diameter Range Inch (mm): .060-.135 (1.52-3.43)							
Pin	24-20	B	—	—	—	—	A25009CT-ND	4.32	38.06	185.34/M	213605-1
Socket	24-20	B	A25007-ND	.58	.41	66565-2	A25007CT-ND	—	35.04	175.20/M	66563-6
Socket	24-20	A	A25008-ND	.65	.45	66565-4	A25008CT-ND	—	46.80	234.00/M	66563-8
				Insulation Diameter Range Inch (mm): .110-.150 (2.79-3.81)							
Pin	18-14	B	—	—	—	—	A25011CT-ND	4.32	38.06	185.34/M	213603-1
Socket	18-14	B	A25130-ND	.44	.31	66601-1	A25130CT-ND	—	28.38	141.89/M	66598-1
Pin	18-14	A	A25131-ND	.56	.39	66602-2	—	—	—	—	—

*For Tape and Reel part number, change CT-ND to TR-ND.

CPC Connector Accessories, Metal-Shell



Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings.

Material: Zinc alloy, nickel plated

Shell Size	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Cable Clamps			
14 22 28	.225 - .562 (5.71 - 14.27) .325 - .750 (8.26 - 19.05) .450 - .938 (11.43 - 23.83)	A1626-ND A1627-ND A1628-ND	7.81 12.79 16.91	7.40 12.12 16.02	208945-5 208945-7 208945-8
		Protective Caps			
14 22 28	— — —	A25047-ND A1633-ND A1634-ND	12.48 24.23 21.64	11.83 22.95 20.51	213823-2 211903-1 211904-1

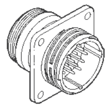
Circular Metal Shell Connectors

Note: Shell Only. Material and Finish: Receptacle: Insert: Black thermoplastic; **Outer Shell:** Aluminum alloy, zinc plated or unplated. **Plug: Insert:** Black thermoplastic; **Outer Shell and Coupling Ring:** Aluminum alloy, zinc plated; **Retainer Ring:** Stainless steel.

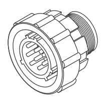
Note: Contacts (pins and sockets) must be ordered separately.

Component Diameter	
Arrangement/ Shell Size	Overall Dia. Inch (mm)
14	1.225 (31.12)
22	1.750 (44.45)
28	2.170 (55.12)

Series 1 & 2

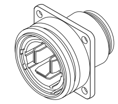


*** Standard Sex (Plug/Socket)**

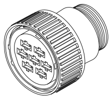


† Reverse Sex (Plug/Pins)

Series 3

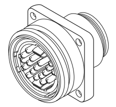


*** Standard Sex Square Flange Receptacle**

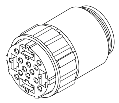


*** Standard Sex Plug**

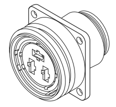
Series 4



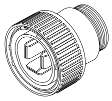
*** Standard Sex Square Flange Receptacle**



*** Standard Sex Plug**



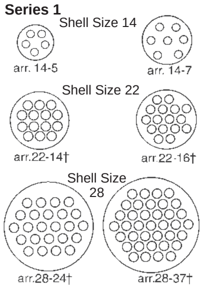
† Reverse Sex Square Flange Receptacle



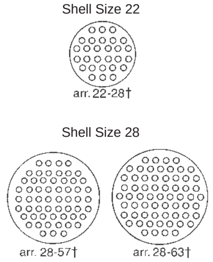
† Reverse Sex Plug

* Standard Sex: Pin contacts in receptacle housings; socket contacts in plug housings.
† Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

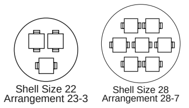
Series 1



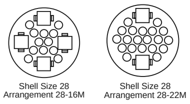
Series 2



Series 3



Series 4



Arrangement No.	Sex	Description (Shell Only)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Series 1			
14-5	Standard	Receptacle-Sq. Flanged Plug	A1600-ND A1601-ND	18.72 44.87	17.35 41.60	208719-1 208718-1
	Reverse	Receptacle-Sq. Flanged Plug	A1602-ND A1603-ND	21.30 33.31	19.75 30.88	208721-1 208720-1
14-7	Standard	Receptacle-Sq. Flanged Plug	A1604-ND A1605-ND	19.52 31.16	18.09 28.88	208715-1 208714-1
	Reverse	Receptacle-Sq. Flanged Plug	A1606-ND A1607-ND	19.52 30.46	18.09 28.24	208717-1 208716-1
22-14	Reverse	Receptacle-Sq. Flanged Plug Plug with Tetraseals	A1608-ND A1609-ND A25051-ND‡	20.89 27.43 36.41	19.37 25.43 33.75	208487-1 208486-1 208486-3
22-16	Standard	Receptacle-Sq. Flanged Plug	A1610-ND A1611-ND	23.31 26.38	21.61 24.46	208489-1 208488-1
28-24	Standard	Receptacle-Sq. Flanged Plug	A1612-ND A1613-ND	29.38 37.08	27.23 34.38	208459-1 208457-1
28-37	Standard	Receptacle-Sq. Flanged Plug	A1614-ND A1615-ND	29.36 37.08	27.21 34.38	208471-1 208470-1
	Reverse	Receptacle-Sq. Flanged Plug	A1616-ND A1617-ND	26.71 32.33	24.76 29.97	208473-1 208472-1
			Series 2			
22-28	Standard	Receptacle-Sq. Flanged Plug	A1618-ND# A1619-ND	17.75 71.07	16.46 65.88	208491-1 208490-1
	Reverse	Receptacle-Sq. Flanged Plug	A1620-ND# A1621-ND	17.08 78.86	15.83 73.10	208493-1 208492-1
28-57	Reverse	Receptacle-Sq. Flanged Plug	A1622-ND# A1623-ND	26.10 105.43	24.19 97.72	208475-1 208474-1
28-63	Standard	Receptacle-Sq. Flanged Plug	A1624-ND# A1625-ND	26.10 98.99	24.19 91.76	208477-1 208476-1
			Series 3			
22-3	Standard	Receptacle-Sq. Flanged Plug	A16070-ND A16071-ND	25.50 35.20	23.64 32.63	208495-1 208494-1
	Reverse	Plug	A25052-ND	32.29	29.93	208496-1
28-7	Standard	Receptacle-Sq. Flanged Plug	A16072-ND A16073-ND	23.23 37.49	21.53 34.76	208483-1 208482-1
28-7	Reverse	Receptacle-Sq. Flanged Plug	A16074-ND A16075-ND	27.86 32.86	25.83 30.46	208485-1 208484-1
			Series 4			
28-16	Standard	Receptacle-Sq. Flanged Plug	A16076-ND A16077-ND	28.56 41.27	26.47 38.25	208479-1 208478-1
28-22	Standard	Receptacle-Sq. Flanged Plug	A16078-ND A16079-ND	28.56 39.44	26.47 36.56	208481-1 208480-1

# Aluminum alloy, unplated. ‡ Tetraseal provides splash-proof sealing between mating metal shells.

AMP tyco Electronics
Authorized Distributor

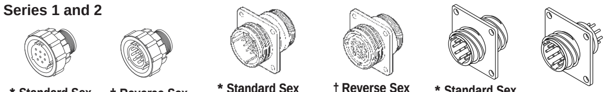
Circular Plastic Connectors

• Lightweight, all-plastic connectors • CPC connectors made of UL recognized, high-grade black thermoplastic material • 94V-1 rated, heat-stabilized, fire-resistant, self-extinguishing • Two connector series for different connection needs: **Series 1** — Standard density applications with Multimate contacts. **Series 2** — High-density applications with size 20 DM and 20 DF contacts, .040" (1.02 mm) dia. • Available in panel-mount, chassis-mount and free hanging versions • Quick-connect/disconnect capability with thread assist, positive detent coupling • Built-in pin and socket protection. Plug or socket half can be "hot", depending on connector sex • 5-key polarization for proper mating of connector halves • Full complement of optional accessories

Component Diameter	
Arrangement/ Shell Size	**Overall Dia. Inch (mm)**
11	.942 (23.93)
13	1.070 (27.18)
17	1.315 (33.40)
23	1.743 (44.2)

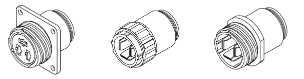
Note: Contacts (pins and sockets) must be ordered separately, unless otherwise noted.

Series 1 and 2



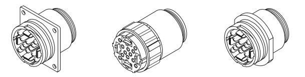
*** Standard Sex (Plug/Socket)** — **† Reverse Sex (Plug/Pins)** — *** Standard Sex Square-Flange Receptacle** — **† Reverse Sex Square-Flange Receptacle** — *** Standard Sex Feed-Thru Receptacle** — *** Standard Sex PC Mount**

Series 3



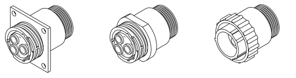
† Reverse Sex Square Flange Receptacle — **† Reverse Sex Plug** — *** Standard Sex Free-Hanging Receptacle**

Series 4



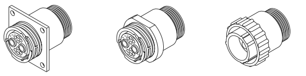
*** Standard Sex Square Flange Receptacle** — *** Standard Sex Plug** — *** Standard Sex Free-Hanging Receptacle**

Series 5



† Rev Sex Square Flange Receptacle — **† Rev Sex Free-Hanging Receptacle** — **† Reverse Sex Plug**

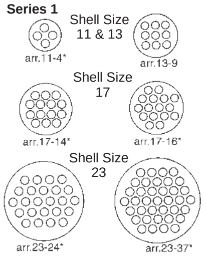
Series 6



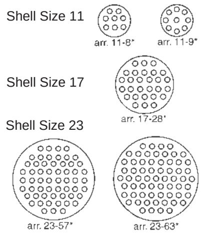
† Rev Sex Square Flange Receptacle — **† Rev Sex Free-Hanging Receptacle** — **† Reverse Sex Plug**

*** Standard Sex:** Pin contacts in receptacle housings; socket contacts in plug housings.
† Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

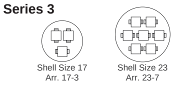
Series 1



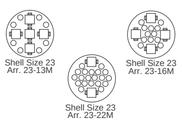
Series 2



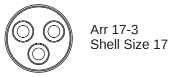
Series 3



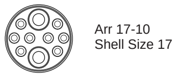
Series 4



Series 5



Series 6



Series 1 (Shell Only)

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	4	Rev.	Receptacle-Square Flanged	A1360-ND	1.62	1.51	206430-1
			Receptacle-Free Hanging	A1361-ND	1.62	1.51	206430-2
			Recept.-Square Flanged w/Inserts	A25053-ND	3.65	3.39	211102-1
			Plug	A1357-ND	1.97	1.83	206429-1
		Std.	Receptacle-Square Flanged	A1301-ND	1.58	1.47	206061-1
			Receptacle-Free Hanging	A1351-ND	1.62	1.51	206153-1
			Plug	A1300-ND	1.95	1.81	206060-1
13	9	Std.	Receptacle-Square Flanged	A1303-ND	1.70	1.58	206705-1
			Receptacle-Free Hanging	A1352-ND	1.72	1.60	206705-2
			Plug	A1302-ND	2.13	1.98	206708-1
17	14	Rev.	Receptacle-Square Flanged	A1362-ND	1.78	1.66	206043-1
			Receptacle-Free Hanging	A1363-ND	2.23	2.08	206043-3
			Plug	A1358-ND	2.19	2.04	206044-1
	16	Std.	Receptacle-Square Flanged	A1305-ND	1.78	1.66	206036-1
			Receptacle-Free Hanging	A1353-ND	1.78	1.66	206036-3
			Receptacle-Feed-Thru	A25058-ND	35.36	32.78	206552-1
			Plug-Reverse Numbering	A25057-ND	3.83	3.56	206554-1
			Plug	A1304-ND	2.19	2.04	206037-1
23	24	Std.	Receptacle-Square Flanged	A1354-ND	2.19	2.04	206838-1
			Receptacle-Free Hanging	A1355-ND	2.99	2.78	206838-2
			Plug	A1350-ND	2.85	2.65	206837-1
	37	Rev.	Receptacle-Square Flanged	A1364-ND	2.01	1.87	206306-1
			Receptacle-Free Hanging	A1365-ND	2.81	2.61	206306-2
			Plug	A1359-ND	2.56	2.38	206305-1
		Std.	Receptacle-Square Flanged	A1307-ND	2.01	1.87	206151-1
			Receptacle-Free Hanging	A1356-ND	2.21	2.06	206151-2
			Plug	A1306-ND	2.56	2.38	206150-1

Series 1 (Shell & Contacts) - PC Mount with .025" (.64mm) Sq. Sol. Tails

Contact Finish: Duplex plated gold flash on entire contact with 30µ min. gold on contact engagement area, tin-lead on the termination area, all over .50µ min. nickel under plating.

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	4	Rev.	Receptacle	A25054-ND	6.52	6.05	208283-1
13	9	Std.	Receptacle	A25055-ND	5.64	5.23	208223-1
17	16	Std.	Receptacle	A25056-ND	9.35	8.67	207303-3

Series 1 (Shell Only) - VDE Tested Connectors

Designed to meet requirements of VDE as shown in DIN Specification 57627. Recognized under the Component Program of UL for 600VAC & 600VDC service, File No. E28476. Certified by CSA, File No. LR7189.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
13	7	Std.	Receptacle-Square Flanged	A1635-ND	2.87	2.66	211401-1
			Plug	A1638-ND	2.60	2.42	211399-1
		Rev.	Receptacle-Square Flanged	A1641-ND	2.54	2.36	211398-1
			Plug	A1644-ND	2.97	2.76	211400-1
17	9	Std.	Receptacle-Square Flanged	A1636-ND	2.64	2.46	211767-1
			Plug	A1639-ND	3.49	3.23	211766-1
		Rev.	Receptacle-Square Flanged	A1642-ND	2.91	2.70	211769-1
			Plug	A1645-ND	3.10	2.87	211768-1
23	19	Std.	Receptacle-Square Flanged	A1637-ND	3.44	3.20	211771-1
			Plug	A1640-ND	4.18	3.88	211770-2
		Rev.	Receptacle-Square Flanged	A1643-ND	2.91	2.70	211773-1
			Plug	A1646-ND	3.51	3.25	211772-1

Series 1 (Shell Only) - Sealed Connectors

Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE for environmentally sealed connectors used in industrial applications. **Operating Temperature Range:** -50°C - 125°C. **Voltage Rating:** 600 V (AC or DC), **Contacts:** 13 amps., single contact rating at 30°C T-Rise. **Flammability Rating:** UL 94V-0 rated. **Sealing Capability:** Per IP66 and IP67. **Housing Material:** Black, high strength, impact resistant thermoplastic. **Seal:** Gray Elastomer. **Fluid Resistance:** Diesel fuel, gear and engine fuel, gasoline, anti-freeze, hydraulic fluid, water.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	4	Rev.	Square Flange	A1675-ND	2.77	2.57	206430-3
			Free-Hanging	A1676-ND	6.05	5.61	206430-4
		Std.	Square Flange	A25038-ND	5.90	5.48	206061-2
13	9	Std.	Square Flange	A1669-ND	2.77	2.57	206705-3
			Free-Hanging	A1670-ND	2.83	2.63	206705-4
17	14	Rev.	Square Flange	A1677-ND	2.83	2.63	206043-4
			Free-Hanging	A1678-ND	4.53	4.20	206043-5
	16	Std.	Square Flange	A1671-ND	3.32	3.08	206036-4
			Free-Hanging	A1672-ND	2.91	2.70	206036-5
23	24	Std.	Square Flange	A1673-ND	3.38	3.14	206838-3
			Free-Hanging	A1674-ND	4.57	4.24	206838-4
	37		Square Flange	A25049-ND	7.18	6.65	206151-3

Series 2 (Shell Only) - Sealed Connectors

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	8	Std.	Receptacle-Square Flanged	A1366-ND	2.93	2.72	205841-1
			Receptacle-Free Hanging	A1367-ND	2.91	2.70	205841-2
			Plug	A1368-ND	3.55	3.29	205838-1
			Receptacle-Feed-Thru	A25048-ND	28.95	26.83	206458-1
		Rev.	Receptacle-Square Flanged	A1369-ND	2.95	2.74	206433-1
			Receptacle-Free Hanging	A1370-ND	2.95	2.74	206433-2
			Plug	A1371-ND	3.55	3.29	206434-1
	9	Std.	Receptacle-Square Flanged	A1372-ND	2.87	2.66	206486-1
			Receptacle-Free Hanging	A1373-ND	2.95	2.74	206486-2
			Plug	A1374-ND	3.49	3.23	206485-1
17	28	Std.	Receptacle-Square Flanged	A1375-ND	3.16	2.93	205840-3
			Plug-Reverse Numbering	A25045-ND	6.72	6.24	206126-1
			Receptacle-Free Hanging	A1376-ND	3.75	3.48	206152-1
			Receptacle-Feed-Thru	A25046-ND	38.60	35.78	206127-1
			Plug - Dia. 1.349 (34.26) max.	A1377-ND	3.75	3.48	205839-3
			Plug - Dia. 1.315 (33.40) max.	A25044-ND	6.72	6.24	206125-1
		Rev.	Receptacle-Square Flanged	A1378-ND	3.08	2.85	206038-1
			Receptacle-Free Hanging	A1379-ND	3.77	3.50	206038-2
			Plug	A1380-ND	3.67	3.41	206039-1
23	57	Rev.	Receptacle-Square Flanged	A1381-ND	4.88	4.53	206438-1
			Receptacle-Free Hanging	A1382-ND	7.81	7.24	206438-2
			Plug	A1383-ND	5.02	4.66	206437-1
	63	Std.	Receptacle-Square Flanged	A1384-ND	4.69	4.36	205843-1
			Receptacle-Free Hanging	A1385-ND	4.94	4.58	205843-2
			Plug	A1386-ND	4.98	4.62	205842-1

Series 2 (Shell & Contacts) - PC Mount with .025" (.64mm) Sq. Sol. Tails

Shell Size	No. of Cont.	Sex	Cont. Finish	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	8	Rev.	A	Receptacle-Square Flanged	A25040-ND	6.44	5.97	208657-1
11	9	Std.	A	Receptacle-Square Flanged	A25041-ND	6.60	6.12	206852-2
17	28	Rev.	B	Receptacle-Square Flanged	A25042-ND	11.23	10.42	207216-2
23	63	Std.	A	Receptacle-Square Flanged	A25043-ND	22.26	20.64	206455-2

A - Duplex plated gold flash on entire contact with 30µ min. gold on contact engagement area, tin-lead on the termination area, all over 50µ min. nickel under plating. **B** - Plated gold flash on the entire contact, tin-lead on the termination area.

Series 3 and 4 (Shell Only)

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Series 3				
17	3	Std.	Receptacle-Square Flanged	A1681-ND	2.30	2.13	206036-2
			Receptacle-Free Hanging	A1683-ND	2.30	2.13	206207-1
			Plug	A1685-ND	2.99	2.78	206037-2
		Rev.	Receptacle-Square Flanged	A16015-ND	2.30	2.13	206425-1
			Receptacle-Free Hanging	A16017-ND	3.12	2.89	206425-2
			Plug	A16019-ND	4.12	3.82	206426-1
23	7	Std.	Receptacle-Square Flanged	A1682-ND	3.53	3.27	206137-1
			Receptacle-Free Hanging	A1684-ND	3.61	3.35	206137-2
			Plug	A1686-ND	3.26	3.03	206136-1
		Rev.	Receptacle-Square Flanged	A16016-ND	2.87	2.66	206227-1
			Receptacle-Free Hanging	A16018-ND	3.96	3.67	206227-2
			Plug	A16020-ND	3.32	3.08	206226-1
			Series 4				
23	13	Std.	Receptacle-Square Flanged	A16029-ND	4.22	3.92	211825-1
			Receptacle-Free Hanging	A16032-ND	3.53	3.27	211825-2
			Plug	A16035-ND	7.30	6.77	211824-1
	16	Std.	Receptacle-Square Flanged	A16030-ND	2.77	2.57	207486-1
			Receptacle-Free Hanging	A16033-ND	3.96	3.67	207486-2
			Plug	A16036-ND	3.20	2.97	207485-1
	22	Std.	Receptacle-Square Flanged	A16031-ND	2.69	2.49	206613-1
			Receptacle-Free Hanging	A16034-ND	3.63	3.37	206613-3
			Plug	A16037-ND	3.83	3.56	206612-1

(Continued)

AMP tyco Electronics Authorized Distributor

Series 5 and 6 Sealed Circular Plastic Connector *(Cont.)*

Sealed CPC connectors are the latest additions to the growing family of Circular Plastic Connectors. Sealed CPC connectors were developed as part of the Series 5 and 6 product line. Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE. Sealed CPC connectors incorporated the latest technology in thermoplastic design and use the POWERBAND precision formed high current contact.

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Series 5							
17	3	Rev	Square Flange, Recept.	A25781-ND	4.04	3.75	213889-2
17	3	Rev	Free-Hanging, Recept.	A25782-ND	4.04	3.75	213890-2
17	3	Rev	Plug Assembly	A25783-ND	7.11	6.60	213905-1
Series 6							
17	10	Rev	Square Flange, Recept.	A25785-ND	3.83	3.56	213893-2
17	10	Rev	Free-Hanging, Recept.	A25786-ND	4.61	4.28	213894-2
17	10	Rev	Plug Assembly	A25787-ND	8.77	8.14	213906-1

Accessories

Fig. 1

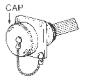


Fig. 2

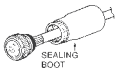


Fig. 3

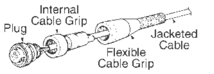


Fig. 4

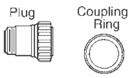


Fig. 5

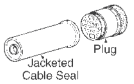


Fig. 6

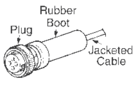


Fig. 7

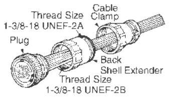


Fig. 8

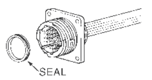


Fig. 9

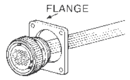
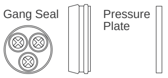


Fig.	Description	Shell Size	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Sealing Cap for Receptacles, Plastic Strap	11 13 17 23	A16038-ND A16039-ND A16040-ND A16041-ND	2.77 2.48 2.97 3.40	2.57 2.30 2.76 3.16	206903-1 211870-1 207445-1 207446-1
1	Sealing Cap for Receptacles, Metal Bead Chain	11 13 17 23 23	A16042-ND A16043-ND A16044-ND A16045-ND A20537-ND†	4.57 5.43 4.41 5.31 6.83	4.24 5.04 4.09 4.93 6.33	208800-1 213485-1 208652-1 208680-1 208680-2
2	Cable Entry Seal, Heat Shrinkable Sealing Boots	11 13 17 23	A16046-ND A16047-ND A16048-ND A16049-ND	6.27 6.91 6.81 7.63	5.82 6.41 6.31 7.07	54010-1 54123-1 54011-1 54012-1
3	Flexible Cable Boot, Black Thermoplastic	11 17	A16050-ND A16052-ND	1.82 3.26	1.70 3.03	207489-1 207241-1
3	Internal Cable Grip, Black Thermoplastic Internal Cable Grip, Blk. Thermoplastic 8.25mm Internal Cable Grip, Blk. Thermoplastic 9.78mm	11 17 17	A16051-ND A16053-ND A16054-ND	1.97 2.75 2.62	1.83 2.55 2.44	207490-1 207387-1 207387-2
4	Replacement Coupling Ring	11 13 17 23	A16055-ND A16056-ND A16057-ND A16058-ND	.77 1.08 .86 1.38	.72 1.01 .80 1.28	213811-1 213813-1 213810-1 213812-1
5	Jacketed Cable Seals, Cable Dia. 7.62mm Jacketed Cable Seals, Cable Dia. 11.43mm Jacketed Cable Seals, Cable Dia. 15.24mm	23 23 23	A16063-ND A16064-ND A16065-ND	12.57 17.86 9.96	11.65 16.55 9.24	207052-1 207052-2 207052-3
6	Rubber Boots Rubber Boots	11 17	A16059-ND* A16060-ND	5.33 3.67	4.94 3.41	206304-1 213933-1
7	Back Shell Extenders	23	A16062-ND	3.26	3.03	207055-1
8	Peripheral Seals for Receptacles Only	11 13 17 23	A1335-ND A1336-ND A1337-ND A1338-ND	.59 .88 .67 1.22	.48 .71 .54 .98	206403-1 206403-4 206403-2 206403-3
9	Panel Mount Flanges for Plugs Only	11 13 17 23	A25003-ND A25004-ND A25019-ND A25020-ND	3.23 2.95 3.10 2.01	3.06 2.79 2.94 1.91	207299-1 207299-2 207299-3 207299-4
	Flange Gasket	17	A25784-ND	.91	.85	81665-2
	Keying Plug, Series 1 & 4 Keying Plug, Series 2 Keying Plug, Series 3 & 4 (Socket Cavities) Keying Plug, Series 3 & 4 (Pin Cavities)		A16066-ND A16067-ND A16068-ND A16069-ND	.15 .35 .56 1.62	.15 .33 .52 1.51	200821-1 206509-1 206508-1 207597-1

* Rubber boots are used with jacketed cable to provide splashproof connections for Series 1 & 3 connectors. Black neoprene.

† For use with series 2 only.

Wire Entry Seal Kits

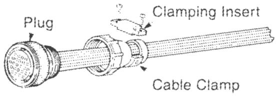


Includes one Gang Seal and one pressure plate marked for cavity identification. **Material and Finish:** Seal - Elastomer, red iron oxide. Pressure Plate - Nylon, black

Shell Size	Insulation Dia. Inch (mm)	Seal Dia. Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	AMP Part No.
Kit for Pins							
13-9	.075 - .125 (1.91 - 3.18)	.681 (17.30)	A25059-ND	3.83	3.56	3.11	213926-1
17-3	.178 - .265 (4.52 - 6.73)	.790 (20.07)	A25060-ND	5.66	5.25	4.59	213899-1
17-10	.150 - .265 (3.81 - 6.73)	.790 (20.07)	A25788-ND	3.61	3.35	2.93	213900-1
17-14	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25061-ND	3.92	3.63	3.18	213919-2
17-16	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25062-ND	3.92	3.63	3.18	213920-2
Kit for Sockets							
13-9	.075 - .125 (1.91 - 3.18)	.681 (17.30)	A25063-ND	3.83	3.56	3.11	213925-1
17-3	.178 - .265 (4.52 - 6.73)	.790 (20.07)	A25060-ND	5.66	5.25	4.59	213899-1
17-10	.150 - .265 (3.81 - 6.73)	.790 (20.07)	A25788-ND	3.61	3.35	2.93	213900-1
17-14	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25064-ND	5.35	4.96	4.34	213919-1
17-16	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25065-ND	9.25	8.57	7.49	213920-1

Cable Clamps – Plastic Shell

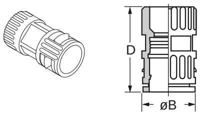
Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings. These may be used on all receptacles and plugs. Two screws included.



Shell Size	Cable Outer Dia. Inch (mm)	Screw Length Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	.329 (8.36)	.375 (9.53)	A1330-ND	2.43	2.31	206062-1
11	.329 (8.36)	.500 (12.7)	A25021-ND	2.43	2.31	206062-3
13	.453 (11.51)	.500 (12.7)	A1331-ND	2.45	2.33	206966-1
17	.453 (11.51)	.500 (12.7)	A1332-ND	2.45	2.33	206070-1
23	.703 (17.86)	.625 (15.88)	A1334-ND	2.57	2.43	206138-1
11	.453 (11.51)	.500 (12.7)	A1687-ND	2.43	2.31	206358-1
13	.703 (17.86)	.625 (15.88)	A1688-ND	2.60	2.47	207008-1
17	.703 (17.86)	.625 (15.88)	A1689-ND	2.76	2.61	206322-1
23	1.125 (28.58)	.625 (15.88)	A1690-ND	3.21	3.05	206512-1
23	1.125 (28.58)	1.00 (25.4)	A16061-ND*	4.06	3.77	207774-1

* Self-Centering

Flexible Tubing Connectors To be used with all circular plastic connectors



Characteristics: • One-piece plastic quick screw connection with UNEF-inner thread • **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene® • **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions • **Temperature Range:** From approx. -30°C up to +100°C • **Color:** Black

CPC Shell Size	Trade Size Tubing Outer – Dia.	Inner Thread UNEF	Dimensions (mm) Largest Outer øB	Dimensions (mm) Total Length D	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	0.51” (13.0mm)	5/8” - 24	20.6	36.6	A16102-ND	2.90	2.54	1-969807-2
13	0.62” (15.8mm)	3/4” - 20	23.6	41.7	A16103-ND	3.02	2.65	1-969809-3
17	0.83” (21.2mm)	15/16” - 20	30.1	50.3	A16104-ND	3.46	3.03	1-969811-4
23	1.12” (28.5mm)	1” - 20	37.0	54.0	A16105-ND	5.42	4.75	2-969813-5

NOTE: Must also be used with Flexible Corrugated Tubing (Mfg. #s 969789-2, 969789-3, 969789-4 & 969789-5).

AMP tyco Electronics Authorized Distributor

Flexible Corrugated Tubing and Connectors

Fig. 1 - All-plastic Tubing

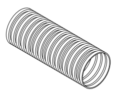


Fig. 2 - Straight Tubing Connections

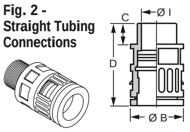
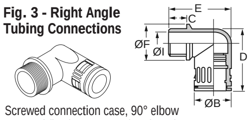


Fig. 3 - Right Angle Tubing Connections



Screwed connection case, 90° elbow type and fixed PG connecting thread DIN 40430

PLASTIC TUBING: • **Properties:** Air- and liquid-tight, oil resistant up to +80°C, benzine resistant, highly resistant to acids and solvents, ozone resistant, free of silicon, cadmium and halogen, self-extinguishing and flame retarding • **Temperature Range:** Approximately -40°C to +115°C, temporarily withstands temperatures up to approx. +150°C • **Color:** Black • UL File No. E86359, GGVS certified

CONNECTIONS: • One-piece plastic quick screw connection with PG-thread acc. to DIN 40430 for corrugated tubings • **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene® • **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions • **Temperature Range:** From approximately -30°C up to +100°C • **Color:** Black • GGVS certified

Trade Size Tubing Outer Dia. - In. (mm)	Bending Radius (mm) ±10%	Digi-Key Part No.	Note: X in Part No. = Meters Per Roll Price Per Roll 5 meter	10 meter	25 meter	50 meter	AMP Part No.
Fig. 1 — All-Plastic Tubing							
0.51 (13.0)	20	A16090-X-ND	12.75	23.38	53.13	85.00	969789-2
0.62 (15.8)	35	A16091-X-ND	16.20	29.70	67.50	108.00	969789-3
0.83 (21.2)	45	A16092-X-ND	26.40	48.40	110.00	176.00	969789-4
1.12 (28.5)	55	A16093-X-ND	41.55	76.18	173.13	277.00	969789-5

Trade Size Tubing Outer – Dia. Inch (mm)	Thread DIN 40430 PG	Smallest Inner øI	Dimensions (mm) Largest Inner øB	Thread Length C	Total Length D	Total Height E	Connection øF	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Fig. 2 — Panel Mount Straight Tubing Connections											
0.51 (13.0)	9	10.0	20.0	10	35.0	—	—	A16094-ND	1.82	1.75	969803-2
0.62 (15.8)	11	12.5	23.0	10	37.0	—	—	A16095-ND	1.86	1.80	969803-3
0.83 (21.2)	16	17.0	29.5	12	43.5	—	—	A16096-ND	1.96	1.89	969803-4
1.12 (28.5)	21	23.5	37.0	12	46.0	—	—	A16097-ND	3.44	3.30	969803-5
Fig. 3 — Panel Mount Right Angle Tubing Connections											
0.51 (13.0)	9	12.0	20.0	10	36.0	34.0	20.0	A16098-ND	3.34	3.21	969817-2
0.62 (15.8)	11	15.5	23.0	10	42.0	37.5	23.0	A16099-ND	3.48	3.36	969817-3
0.83 (21.2)	16	18.0	29.5	12	50.0	47.0	27.0	A16100-ND	3.56	3.44	969817-4
1.12 (28.5)	21	24.0	37.0	12	57.0	55.0	34.0	A16101-ND	5.96	5.73	969817-5

Note: Must order counternuts and seals separately.

Thread DIN 40430 PG	Dimensions (mm) Thickness	Hex Width	Height	Outer Dia.	Inner Dia.	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Counternuts									
9	5.0	22	—	—	—	A16106-ND	.24	.22	796260-2
11	5.0	24	—	—	—	A16107-ND	.25	.23	796260-3
16	6.0	30	—	—	—	A16108-ND	.26	.25	796260-5
21	7.0	36	—	—	—	A16109-ND	.42	.40	796260-6
Flat O-Ring Seal									
9	—	—	1.6	19	15	A16110-ND	.43	.41	796257-2
11	—	—	1.8	23	18	A16111-ND	.47	.45	796255-2
16	—	—	1.8	27	21.5	A16112-ND	.50	.48	796255-3

Contacts (Pins and Sockets)

CONTACT FINISH:

- **A** Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact.
- **B** Duplex plated 30µ gold in mating area over 50µ nickel on contact body; bright tin-lead on solder tab.
- **C** 15µ gold in the mating area over 50µ nickel.
- **D** Selective gold, 30µ gold over 30µ nickel.
- **E** .000100 (0.00254) silver plated contacts with lubricant added.
- **F** Bright tin-lead on entire contact.

Series 1 Signal, Type III+, Precision Formed

Pin Diameter: .062 (1.57mm) **Crimp Contacts:** Brass **Test Current:** 13 Ampere **Solder Contacts and Grounding Pin:** Copper alloy, plated tin or gold **Spring:** Stainless Steel

Fig. 1 – Crimp

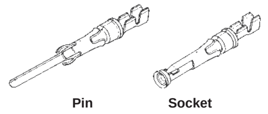


Fig. 2 – Solder Type

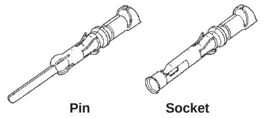


Fig. 3 – Solder Tab

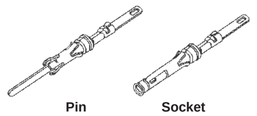


Fig. 4 – Crimp With Insulation Support

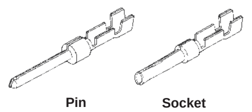


Fig. 5 – Solder Cup

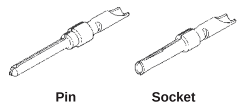
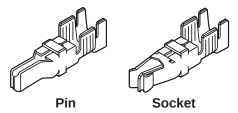


Fig. 6 – Power Contacts



Desc.	Wire Size AWG	Ins. Dia. Inch	Cont. Fin.	Digi-Key Part No.	Loose Pc. Price Each 10	Loose Pc. Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Digi-Key Part No.	Strip Tape and Reel Size	Strip Tape and Reel Pricing	AMP Part No.
Crimp, Fig. 1														
Pin	30-26	.040-.060	F	—	—	—	—	A25084CT-ND	27.67	126.80	A25084TR-ND	4,000	138.33/M	66425-6
Socket			F	—	—	—	—	A25085CT-ND	35.70	163.64	A25085TR-ND	4,000	178.52/M	66424-6
Pin			C	A25088-ND	.97	.68	66429-3	A25088CT-ND	35.74	163.79	A25088TR-ND	4,000	178.68/M	66425-7
Socket			C	A25089-ND	1.36	.95	66428-3	A25089CT-ND	44.40	203.50	A25089TR-ND	4,000	222.00/M	66424-7
Pin			A	A25092-ND	1.03	.72	66429-4	A25092CT-ND	37.62	172.41	A25092TR-ND	4,000	188.09/M	66425-8
Socket			A	A25093-ND	1.61	1.12	66428-4	A25093CT-ND	46.74	214.23	A25093TR-ND	4,000	233.70/M	66424-8
Pin	30-26	.014-.030	C	—	—	—	—	A25094CT-ND	35.70	163.64	A25094TR-ND	4,000	178.52/M	66393-7
Pin			A	A25097-ND	.85	.60	66406-4	A25097CT-ND	37.58	172.25	A25097TR-ND	4,000	187.91/M	66393-8
Socket			A	A25098-ND	1.05	.74	66405-4	A25098CT-ND	46.70	214.05	A25098TR-ND	4,000	233.51/M	66394-8
Pin	26-24	.035-.055	F	A1324-ND	.37	.26	66107-2	A1324CT-ND	22.19	101.71	A1324TR-ND	4,000	110.96/M	66106-6
Socket			F	A1654-ND	.67	.47	66109-2	A1654CT-ND	35.04	160.59	A1654TR-ND	4,000	175.19/M	66108-6
Pin			C	A25104-ND	.63	.44	66109-3	A25104CT-ND	44.37	203.36	A25104TR-ND	4,000	221.85/M	66108-7
Socket			C	A25103-ND	.53	.37	66107-3	A25103CT-ND	35.70	163.64	A25103TR-ND	4,000	178.52/M	66106-7
Pin			A	A1345-ND	.66	.47	66109-4	A1345CT-ND	46.70	214.05	A1345TR-ND	4,000	233.51/M	66108-8
Socket			A	A1344-ND	.56	.39	66107-4	A1344CT-ND	37.58	172.25	A1344TR-ND	4,000	187.91/M	66106-8
Pin	24-20	.040-.080	F	A1322-ND	.37	.26	66103-2	A1322CT-ND	22.68	103.94	A1322TR-ND	4,000	113.39/M	66102-7
Socket			F	A1323-ND	.44	.31	66105-2	A1323CT-ND	28.38	130.06	A1323TR-ND	4,000	141.89/M	66104-7
Pin			C	A25107-ND	.53	.37	66103-3	A25107CT-ND	35.74	163.79	A25107TR-ND	4,000	178.68/M	66102-8
Socket			C	A25108-ND	.63	.44	66105-3	A25108CT-ND	44.40	203.50	A25108TR-ND	4,000	222.00/M	66104-8
Pin			A	A1342-ND	.56	.39	66103-4	A1342CT-ND	37.62	172.41	A1342TR-ND	4,000	188.09/M	66102-9
Socket			A	A1343-ND	.66	.47	66105-4	A1343CT-ND	46.74	214.23	A1343TR-ND	4,000	233.70/M	66104-9
Pin	24-20	.060-.120	F	A25111-ND	.37	.26	66566-2	A25111CT-ND	27.67	126.80	A25111TR-ND	4,000	138.33/M	66564-6
Socket			F	A25007-ND	.58	.41	66565-2	A25007CT-ND	35.04	160.60	A25007TR-ND	4,000	175.20/M	66563-6
Pin			A	A25115-ND	.57	.40	66566-4	A25115CT-ND	38.05	174.41	A25115TR-ND	4,000	190.26/M	66564-8
Socket			D	A25008-ND	.65	.45	66565-4	A25008CT-ND	46.80	214.50	A25008TR-ND	4,000	234.00/M	66563-8
Pin	24-20	.080-.100	F	A1647-ND	.37	.26	66400-1	A1647CT-ND	26.30	120.53	A1647TR-ND	4,000	131.49/M	66332-5
Socket			F	A1656-ND	.44	.31	66399-1	A1656CT-ND	28.38	130.06	A1656TR-ND	4,000	141.89/M	66331-5
Pin			C	A25121-ND	.53	.37	66400-3	A25121CT-ND	35.80	164.07	A25121TR-ND	4,000	178.98/M	66332-7
Socket			C	A25122-ND	.63	.44	66399-3	A25122CT-ND	44.40	203.50	A25122TR-ND	4,000	222.00/M	66331-7
Pin			A	A1648-ND	.56	.39	66400-4	A1648CT-ND	37.68	172.71	A1648TR-ND	4,000	188.42/M	66332-8
Socket			A	A1661-ND	.66	.47	66399-4	A1661CT-ND	46.74	214.23	A1661TR-ND	4,000	233.70/M	66331-8
Pin	18-16	.080-.100	F	A1649-ND	.37	.26	66099-2	A1649CT-ND	22.68	103.94	A1649TR-ND	4,000	113.39/M	66098-7
Socket			F	A1665-ND	.44	.31	66101-2	A1665CT-ND	26.21	120.15	A1665TR-ND	4,000	131.07/M	66100-7
Pin			C	A25123-ND	.62	.44	66099-3	A25123CT-ND	35.80	164.07	A25123TR-ND	4,000	178.98/M	66098-8
Socket			C	A25124-ND	.63	.44	66101-3	A25124CT-ND	44.46	203.76	A25124TR-ND	4,000	222.29/M	66100-8
Pin			A	A1340-ND	.56	.39	66099-4	A1340CT-ND	37.68	172.71	A1340TR-ND	4,000	188.42/M	66098-9
Socket			A	A16080-ND	.66	.47	66101-4	A16080CT-ND	46.80	214.50	A16080TR-ND	4,000	234.00/M	66100-9
Pin	18-14	.080-.100	F	A1320-ND	.37	.26	66361-2	A1320CT-ND	22.68	103.94	A1320TR-ND	4,000	113.39/M	66359-6
Socket			F	A1321-ND	.43	.30	66360-2	A1321CT-ND	28.38	130.06	A1321TR-ND	4,000	141.89/M	66358-6
Pin			C	A25127-ND	.53	.37	66361-3	A25127CT-ND	34.13	156.42	A25127TR-ND	4,000	170.64/M	66359-9
Socket			C	A25128-ND	.79	.55	66360-3	A25128CT-ND	44.42	203.60	A25128TR-ND	4,000	222.11/M	66358-9
Pin			A	A1650-ND	.56	.39	66361-4	A1650CT-ND	35.93	164.70	A1650TR-ND	4,000	179.67/M	1-66359-0
Socket			A	A1341-ND	.83	.58	66360-4	A1341CT-ND	46.76	214.31	A1341TR-ND	4,000	233.79/M	1-66358-0
Pin	18-14	.110-.150	F	A25129-ND	.37	.26	66602-1	A25129CT-ND	22.68	103.94	A25129TR-ND	4,000	113.39/M	66597-1
Socket			F	A25130-ND	.44	.31	66601-1	A25130CT-ND	28.38	130.06	A25130TR-ND	4,000	141.89/M	66598-1
Pin			A	A25131-ND	.56	.39	66602-2	A25131CT-ND	37.74	172.99	A25131TR-ND	4,000	188.72/M	66597-2
Socket			A	A25012-ND	.63	.44	66601-2	A25012CT-ND	46.26	212.04	A25012TR-ND	4,000	231.32/M	66598-2
Crimp, Fig. 1 — Grounding Pin (make first - break last)														
Pin	24-20	.045-.070	A	A25133-ND	1.96	1.37	164163-2	—	—	—	—	—	—	—
Pin	18-16	.078-.098	A	A25600-ND	1.45	1.01	164164-2	A25600CT-ND	119.98	549.90	A25600TR-ND	5,000	599.90/M	164161-4
Solder Type, Fig. 2														
Pin	26-20	.005-.024	A	A25136-ND	.88	.62	66182-1	—	—	—	—	—	—	—
Socket			D	A25137-ND	1.11	.78	66183-1	—	—	—	—	—	—	—
Pin	18-16	.03-.055	A	A25138-ND	.88	.62	66180-1	—	—	—	—	—	—	—
Socket			D	A25139-ND	1.11	.78	66181-1	—	—	—	—	—	—	—
Solder Tab, Fig. 3														
Pin	—	—	B	A16081-ND	1.48	1.03	202236-1	—	—	—	—	—	—	—
Socket	—	—	B	A1668-ND	1.64	1.15	202237-1	—	—	—	—	—	—	—
Pin	—	—	F	A1629-ND	.84	.59	202236-2	—	—	—	—	—	—	—
Socket	—	—	F	A1631-ND	.91	.64	202237-2	—	—	—	—	—	—	—

Series 2

Pin Diameter: .040 (1.02mm) **Test Current:** 7.5 Ampere **Material: Pin Body** - Brass, **Socket** - Phosphor bronze

Desc.	Wire Size AWG	Ins. Dia. Inch	Contact Finish	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Crimp, Fig. 4							
Pin	28-24	.040 max.	A	A1630-ND	.20	.14	66507-9
Socket			A	A1632-ND	.23	.16	66505-9
Pin			D	A25000-ND	.17	.10	5-66507-9
Socket			D	A25001-ND	.18	.12	5-66505-9
Pin	24-20	.050 max.	A	A1679-ND	.18	.17	66506-9
Socket			A	A1680-ND	.19	.17	66504-9
Pin			D	A1008-ND	.18	.17	1-66506-0
Socket			A	A1009-ND	.19	.17	1-66504-0
Socket			D	A25005-ND	.18	.12	5-66504-7
Solder, Fig. 5							
Pin	18	.040 max.	D	A1028-ND	.25	.15	66570-3
Socket			D	A1029-ND	.29	.27	66569-3

Series 3

Desc.	Wire Size AWG	Ins. Dia. Inch	Contact Finish	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Crimp, Fig. 6							
Pin	16-12	.135-.160	F	A16021-ND	1.96	1.37	66261-1
Socket			F	A16025-ND	3.56	2.49	66740-8
Pin			D	A16022-ND	4.90	3.43	66261-2
Socket			D	A16026-ND	6.06	4.23	66740-6
Pin			D	A25031-ND§	5.56	3.89	66262-2
Pin			E	A25032-ND#	2.46	1.72	66261-4
Socket			E	A25033-ND#	4.15	2.90	66740-2
Pin			E	A25034-ND§#	5.12	3.58	66262-4
Pin	10	.190-.220	F	A16023-ND	1.96	1.37	66259-1
Socket			F	A16027-ND	4.62	3.23	66741-8
Pin			D	A16024-ND	5.04	3.52	66259-2
Socket			D	A16028-ND	6.71	4.69	66741-6
Pin			E	A25035-ND#	2.46	1.72	66259-4
Socket			E	A25036-ND#	5.60	3.91	66741-2

# Recommended for high current/vibration applications where corrosion is a problem.
§ Ground contacts

(Continued)

Contacts (Pins and Sockets) *(Cont.)*

Series 4 – Crimp (Series 4 requires a combination of Fig. 1 & 6.)

Descrip.	Wire Size AWG	Insul. Dia. Inch	Contact Finish	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
Crimp, Requires a Combination of Fig. 1 & Fig. 6							
Pin	26-24	.035-.055	F	A1324-ND	.37	.26	66107-2
Pin			A	A1344-ND	.56	.39	66107-4
Socket			A	A1345-ND	.66	.47	66109-4
Socket	26-24	.035-.055	F	A1654-ND	.67	.47	66109-2
Pin	24-20	.040-.080	F	A1322-ND	.37	.26	66103-2
Pin			A	A1342-ND	.56	.39	66103-4
Socket			F	A1323-ND	.44	.31	66105-2
Socket			A	A1343-ND	.66	.47	66105-4
Pin	24-20	.080-.100	A	A1648-ND	.56	.39	66400-4
Socket			A	A1661-ND	.66	.47	66399-4
Pin			F	A1647-ND	.37	.26	66400-1
Socket			F	A1656-ND	.44	.31	66399-1
Pin	18-16	.080-.100	A	A1340-ND	.56	.39	66099-4
Socket			A	A16080-ND	.66	.47	66101-4
Pin			F	A1649-ND	.37	.26	66099-2
Socket			F	A1665-ND	.44	.31	66101-2
Pin	18-14	.080-.100	F	A1320-ND	.37	.26	66361-2
Socket			F	A1321-ND	.43	.30	66360-2
Socket			A	A1341-ND	.83	.58	66360-4
Pin			A	A1650-ND	.56	.39	66361-4

Series 1 Coaxial, Subminiature, Precision Formed, Crimp

Outer Shell: Brass per MIL-C-50

Center Conductor: Beryllium copper per QQ-C-553 (Pin); Brass per QQ-B-626 (Socket)

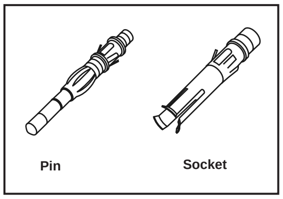
Inner Dielectric: Polypropylene

Retention Spring: Stainless steel per QQ-S-766

Ferrule: Tin-lead per MIL-T-10727 over Copper per QQ-C-576

Contact Finish: Gold/Nickel; Gold/Copper (30µ gold over 50µ nickel–outer shell and socket center conductor; 30µ gold over 100µ copper–pin center conductor)

NOTE: **A ferrule is required for each pin and socket.**



Coaxial Cable

Description	Cable Size RG/U	Digi-Key Part No.	Price Each		AMP Part No.
			10	100	
Contacts					
Pin	178, 196 196 (Double Braid)	A25144-ND	12.65	8.84	226537-2
Socket	178, 196 196 (Double Braid)	A25147-ND	9.69	6.77	51565-2
Pin	174, 188, 316 174 (Double Braid) 179, 187 187 (Double Braid), 161	A25145-ND	8.71	6.09	226537-1
Socket	174, 188, 316 174 (Double Braid) 179, 187 187 (Double Braid), 161	A25148-ND	7.38	5.16	51565-1
Ferrules					
178, 196 RG/U		A25150-ND	.39	.28	1-332057-0
174, 188, 316, 179, 187, 161 RG/U		A25151-ND	.64	.45	1-332056-0

Twisted Pair and Shielded Wire

Description	Cable Size RG/U	Digi-Key Part No.	Price Each		AMP Part No.
			10	100	
Contacts					
Pin	30, 28 (Twisted Pair, Solid) 28 (Twisted Pair, Stranded .005 Dia.) 26 (Twisted Pair, Solid or Stranded .063 Dia.)	A25146-ND	10.01	7.00	226537-3
Socket	30, 28 (Twisted Pair, Solid) 28 (Twisted Pair, Stranded .005 Dia.) 26 (Twisted Pair, Solid or Stranded .063 Dia.)	A25149-ND	11.31	7.90	51565-3
Pin	26 (Shielded, .075 Max. O.D.)	A25145-ND	8.71	6.09	226537-1
Socket	26 (Shielded, .075 Max. O.D.)	A25148-ND	7.38	5.16	51565-1
Ferrule					
Use for Twisted Pair and Shielded Wire		A25150-ND	.39	.28	1-332057-0

Series 1 Signal, Type II, Screw Machined, Crimp

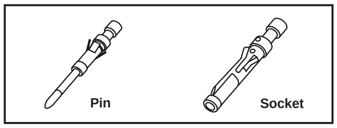
Pin Diameter: 1.57

Test Current: 13 Ampere

Contact Body: Brass

Retention Spring: Stainless steel

Contact Finish: 30µ gold over 50µ nickel. Gold thickness controlled on socket O.D.



Descrip.	Wire Size AWG	Insulation Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
				10	100	
Crimp						
Pin Socket	28-24	.035-.055	A25110-ND A25112-ND	2.70 2.36	1.89 1.65	201611-1 201613-1
Pin Socket	24-20	.040-.062	A25114-ND A25116-ND	2.30 1.95	1.60 1.36	201578-1 201580-1
Pin Socket		.055-.088	A25132-ND A25541-ND	1.61 2.05	1.12 1.43	201330-1 201328-1
Pin Socket	18 (Two)	No Ins. Support	A25544-ND A25135-ND	5.69 12.81	3.98 8.95	202725-1 202726-1
Pin Socket	18-16	.080-.105	A25542-ND A25543-ND	2.59 2.55	1.81 1.78	202507-1 202508-1
Pin Socket		No Ins. Support	A25540-ND A25539-ND	2.64 2.07	1.85 1.45	200336-1 200333-1
Pin		No Ins. Support	A25140-ND†	3.35	2.34	204219-1
Pin Socket	14	No Ins. Support	A25141-ND A25142-ND	1.71 1.96	1.19 1.37	201570-1 201568-1
Pin		No Ins. Support	A25143-ND*†	4.11	2.87	212618-1

* Grounding pin is used to provide a make-first/break-last condition when mating and unmating connector halves.
† Pin length is .630 on these two pins.

.125 POWERBAND Contacts for Sealed Connectors

Test Current: 45 amps

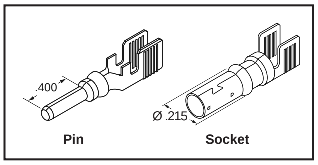
Pin Diameter: .125

Contact Body: Copper with beryllium copper spring

Contact Finish:

A: Post plated 30µ in mating area with 5µ min. gold on remainder of contact, all over 100µ min. nickel;

B: Post plated 200µ silver in mating area with 5µ min. gold on remainder of contact, all over 100µ min. nickel



Descrip.	Wire Size AWG	Contact Finish	Digi-Key Part No.	Price Each		AMP Part No.
				1	10	
Pin	12-14	A	A25066-ND	2.40	2.23	213845-4
Socket			A25067-ND	3.75	3.48	213847-4
Pin		B	A25068-ND	1.97	1.83	213845-3
Socket			A25069-ND	3.79	3.52	213847-3
Pin	8-10	A	A25070-ND	2.40	2.23	213841-4
Socket			A25071-ND	3.75	3.48	213843-4
Pin		B	A25072-ND	1.97	1.83	213841-3
Socket			A25073-ND	3.79	3.52	213843-3

Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.
Series 1 Contacts			
Hand Tool, Pro-Crimper, Handle Only, w/o Dies	A9996-ND	66.00	354940-1
Die Set CPC Conn)	A9919-ND	103.50	58495-2
Contact Extraction Tool	A1329-ND	16.80	305183
Crimp Tool, Pro-Crimper II with Dies	A9920-ND	145.50	58495-1
Crimp Tool, 26-24 AWG Certified – Crimp	A9951-ND	446.88	91515-1
Crimp Tool, 24-20 AWG Certified – Crimp	A9839-ND	504.00	91523-1
Crimp Tool, Ratcheting, 18-16 AWG	A9841-ND	504.00	91505-1
Series 1 & MIL-C-5015 Contacts			
Certi-Crimp Tool, 24-20 AWG	A9941-ND *NEW!*	535.50	91542-1
Crimp Tool, 18-14 AWG	A9009-ND	535.50	91521-1
Series 2 Contacts			
Contact Insertion / Extraction Tool	A1010-ND	6.00	91067-2
Crimp Tool, 26-22	A9806-ND	742.50	91525-1
Crimp Tool for CPC Contacts with Die	A9990-ND	145.50	58448-2
Die Set for CPC Contacts, use with A9996	A9814-ND	111.00	58448-3
Pro-Crimper II Hand Tool without Die	A9996-ND	66.00	354940-1
Series 3 Contacts			
Contact Extraction Tool	A9912-ND	146.85	91019-3
Crimp Tool, 16-12 AWG	A9911-ND	563.92	90382-2
Crimp Tool, 10 AWG	A9910-ND	563.92	90384-1
Coaxial			
Cable Size - RU/U 178 and 196	A25152-ND	1267.88	69656-2
Cable Size - RU/U 174, 188 and 316	A25153-ND	1623.83	69656-3

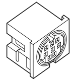
CUI INC

Miniature DIN Connectors

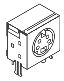
APPLICATIONS: Because of their compact size and durable design, mini-DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment. **GENERAL SPECIFICATIONS: • Rating:** 100V AC 1A MAX, 12V DC 2A MAX **• Insulation Resistance:** MIN 50 MEGΩ @ 250V DC **• Voltage Withstand:** 250V AC, 1 minute **• Contact Resistance:** Pins - 30 mΩ MAX, Shell - 50 mΩ MAX (All accessories included)

No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
Shielded Right Angle Receptacles					
3	CP-2230-ND	.99	.86	.66	MD-30SM
4	CP-2240-ND	1.02	.89	.68	MD-40SM
5	CP-2250-ND	1.05	.91	.70	MD-50SM
6	CP-2260-ND	1.11	.97	.74	MD-60SM
7	CP-2270-ND	1.23	1.07	.82	MD-70SM
8	CP-2280-ND	1.32	1.15	.88	MD-80SM
9	CP-2290-ND	1.65	1.43	1.10	MD-90SM
Slim Shielded Right Angle Receptacles					
4	CP-2244-ND	1.32	1.15	.88	MD-40ST
6	CP-2266-ND	1.37	1.19	.92	MD-60ST
SMT Slim Shielded Right Angle Receptacles					
4	CP-3144-ND	1.77	1.54	1.18	MD-40ST-SMT-1
6	CP-3166-ND	1.88	1.63	1.26	MD-60ST-SMT-1
Right Angle PCB Mount Receptacles					
3	CP-2430-ND	.78	.68	.52	MD-30S
4	CP-2440-ND	.81	.71	.54	MD-40S
5	CP-2450-ND	.86	.75	.57	MD-50S
6	CP-2460-ND	.90	.78	.60	MD-60S
7	CP-2470-ND	1.02	.89	.68	MD-70S
8	CP-2480-ND	1.11	.97	.74	MD-80S
9	CP-2490-ND	1.53	1.33	1.02	MD-90S
Shielded Receptacles with Switch					
3	CP-3030-ND	2.01	1.75	1.34	MD-30SMW
4	CP-3040-ND	2.10	1.82	1.40	MD-40SMW
5	CP-3050-ND	2.19	1.90	1.46	MD-50SMW
6	CP-3060-ND	2.31	2.01	1.54	MD-60SMW
7	CP-3070-ND	2.40	2.08	1.60	MD-70SMW
8	CP-3080-ND	2.46	2.14	1.64	MD-80SMW
Shielded Receptacles with Kinked Pins					
3	CP-4030-ND	.99	.86	.66	MD-30SMK
4	CP-4040-ND	1.02	.89	.68	MD-40SMK
5	CP-4050-ND	1.05	.91	.70	MD-50SMK
6	CP-4060-ND	1.11	.97	.74	MD-60SMK
7	CP-4070-ND	1.23	1.07	.82	MD-70SMK
8	CP-4080-ND	1.32	1.15	.88	MD-80SMK
Shielded Receptacles with Ground Tabs					
3	CP-5030-ND	1.17	1.02	.78	MD-30SG
4	CP-5040-ND	1.20	1.04	.80	MD-40SG
5	CP-5050-ND	1.23	1.07	.82	MD-50SG
6	CP-5060-ND	1.29	1.12	.86	MD-60SG
8	CP-5080-ND	1.50	1.30	1.00	MD-80SG
Shielded Receptacles with Ground Tabs and Kinked Pins					
3	CP-6030-ND	1.17	1.02	.78	MD-30SGK
4	CP-6040-ND	1.20	1.04	.80	MD-40SGK
5	CP-6050-ND	1.23	1.07	.82	MD-50SGK
6	CP-6060-ND	1.29	1.12	.86	MD-60SGK
8	CP-6080-ND	1.50	1.30	1.00	MD-80SGK
Vertical PCB Mount Receptacles					
3	CP-2730-ND	1.02	.89	.68	MD-30SV
4	CP-2740-ND	1.08	.94	.72	MD-40SV
5	CP-2750-ND	1.14	.99	.76	MD-50SV
6	CP-2760-ND	1.17	1.02	.78	MD-60SV
8	CP-2780-ND	1.29	1.12	.86	MD-80SV
Vertical PCB Mount Threaded Receptacles with Hex Nut					
3	CP-2830-ND	1.41	1.23	.94	MD-30CV
4	CP-2840-ND	1.47	1.28	.98	MD-40CV
5	CP-2850-ND	1.50	1.30	1.00	MD-50CV
6	CP-2860-ND	1.56	1.36	1.04	MD-60CV
8	CP-2880-ND	1.65	1.43	1.10	MD-80CV
In-Line Plugs					
3	CP-2030-ND	.87	.76	.58	MD-30
4	CP-2040-ND	.93	.81	.62	MD-40
5	CP-2050-ND	.99	.86	.66	MD-50
6	CP-2060-ND	1.05	.91	.70	MD-60
7	CP-2070-ND	1.11	.97	.74	MD-70
8	CP-2080-ND	1.17	1.02	.78	MD-80
9	CP-2090-ND	1.56	1.36	1.04	MD-90
In-Line Receptacles					
3	CP-2130-ND	1.08	.94	.72	MD-30J
4	CP-2140-ND	1.14	.99	.76	MD-40J
5	CP-2150-ND	1.20	1.04	.80	MD-50J
6	CP-2160-ND	1.26	1.10	.84	MD-60J
7	CP-2170-ND	1.32	1.15	.88	MD-70J
8	CP-2180-ND	1.38	1.20	.92	MD-80J
9	CP-2190-ND	1.83	1.59	1.22	MD-90J
Crimp Pin	CP-9999-ND	—	.09	.05	T-0006

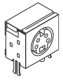
Right Angle Receptacle



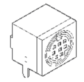
Slim Shielded Rt Angle Recept.



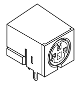
SMT Slim Shielded Rt Angle Recept.



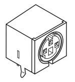
Shielded Right Angle Receptacle



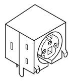
Shielded with Switch



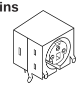
Shielded with Kinked Pins



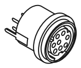
Shielded with Ground Tabs



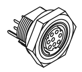
Shielded w/ GND Tabs and Kinked Pins

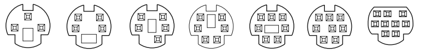


Vert., PCB Mount

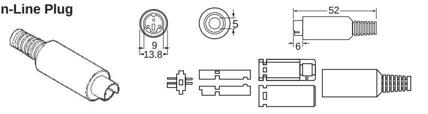


Vert., PCB Threaded with Hex Nut

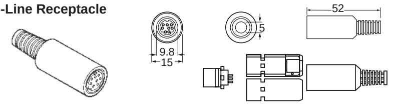


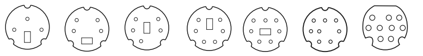


In-Line Plug



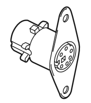
In-Line Receptacle



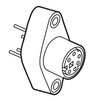


Mini-DIN Panel Mount Connectors

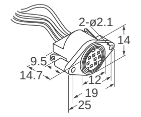
Panel Mount Receptacle, Metal



Panel Mount Receptacle, Plastic



Panel Mount Recept., with 4" Lead Wires



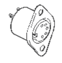
No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
Panel Mount Mini-DIN Connectors — Metal					
3	CP-2530-ND	1.02	.89	.68	MD-30SN
4	CP-2540-ND	1.08	.94	.72	MD-40SN
5	CP-2550-ND	1.17	1.02	.78	MD-50SN
6	CP-2560-ND	1.29	1.12	.86	MD-60SN
7	CP-2570-ND	1.35	1.17	.90	MD-70SN
8	CP-2580-ND	1.38	1.20	.92	MD-80SN
9	CP-2590-ND	1.47	1.28	.98	MD-90SN
Panel Mount Mini-DIN Connectors — Plastic					
3	CP-2630-ND	1.08	.94	.72	MD-30SP
4	CP-2640-ND	1.17	1.04	.78	MD-40SP
5	CP-2650-ND	1.23	1.07	.82	MD-50SP
6	CP-2660-ND	1.38	1.20	.92	MD-60SP
7	CP-2670-ND	1.44	1.28	.96	MD-70SP
8	CP-2680-ND	1.53	1.33	1.02	MD-80SP
Panel Mount Mini-DIN Connectors with 4" Lead Wires (26AWG)					
3	CP-2930-ND	1.65	1.43	1.10	MD-30PL100
4	CP-2940-ND	1.74	1.51	1.16	MD-40PL100
5	CP-2950-ND	1.89	1.64	1.26	MD-50PL100
6	CP-2960-ND	1.98	1.72	1.32	MD-60PL100
8	CP-2980-ND	2.19	1.90	1.46	MD-80PL100

Circular DIN Connectors

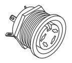
APPLICATIONS: Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value.

GENERAL SPECIFICATIONS: • Ratings: 100V AC 2A MAX **• Insulation Resistance:** MIN 100 MEGΩ @ 500V DC **• Voltage Withstand:** 1000V AC, 1 minute **• Contact Resistance:** Pins - 10 mΩ @ MAX, Shell - 50 mΩ MAX (All accessories included)

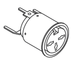
No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
Panel Mount Receptacles					
3	CP-1230-ND	.62	.54	.41	SD-30SN
4	CP-1240-ND	.65	.56	.43	SD-40SN
5	CP-1250-ND	.70	.61	.47	SD-50SN
6	CP-1260-ND	.74	.64	.49	SD-60SN
7	CP-1270-ND	.80	.70	.54	SD-70SN
8	CP-1280-ND	.86	.75	.58	SD-80SN
Panel Mount Locking Receptacles					
3	CP-1233-ND	2.48	2.15	1.66	SD-30LS
4	CP-1234-ND	2.62	2.28	1.75	SD-40LS
5	CP-1235-ND	2.76	2.40	1.85	SD-50LS
6	CP-1236-ND	2.91	2.52	1.94	SD-60LS
7	CP-1237-ND	3.05	2.65	2.04	SD-70LS
8	CP-1238-ND	3.20	2.78	2.14	SD-80LS
Vertical PCB Mount Receptacles					
3	CP-3130-ND	.88	.77	.59	SD-30BV
5	CP-3150-ND	.93	.81	.62	SD-50BV
6	CP-3160-ND	.96	.83	.64	SD-60BV
7	CP-3170-ND	.99	.86	.66	SD-70BV
8	CP-3180-ND	1.04	.90	.69	SD-80BV
Right Angle Receptacles					
3	CP-2330-ND	.69	.60	.46	SDS-30J
4	CP-2340-ND	.72	.63	.48	SDS-40J
5	CP-2350-ND	.72	.63	.48	SDS-50J
6	CP-2360-ND	1.08	.94	.72	SDS-60J
7	CP-2370-ND	1.20	1.04	.80	SDS-70J
8	CP-2380-ND	1.32	1.15	.88	SDS-80J
13	CP-2313-ND	2.85	2.47	1.90	SDD-130J
Right Angle Front Shielded Receptacles					
3	CP-7030-ND	.75	.65	.50	SDF-30J
4	CP-7040-ND	.90	.78	.60	SDF-40J
5	CP-7050-ND	.90	.78	.60	SDF-50J
6	CP-7060-ND	1.23	1.07	.82	SDF-60J
7	CP-7070-ND	1.32	1.15	.88	SDF-70J
8	CP-7080-ND	1.50	1.30	1.00	SDF-80J
13	CP-3313-ND	2.97	2.58	1.98	SDF-130J
Right Angle Surface Mount Receptacles					
4	CP-1000-ND	1.26	1.10	.84	SDS-40J-SMT
8	CP-1001-ND	1.53	1.33	1.02	SDS-80J-SMT
In-Line Plugs					
3	CP-1030-ND	.53	.46	.35	SD-30
4	CP-1040-ND	.54	.47	.36	SD-40
5	CP-1050-ND	.61	.53	.41	SD-50
6	CP-1060-ND	.64	.56	.43	SD-60
7	CP-1070-ND	.72	.63	.49	SD-70
8	CP-1080-ND	.76	.66	.51	SD-80
13	CP-1013-ND	1.65	1.43	1.10	SD-130
In-Line Locking Plugs					
3	CP-1033-ND	3.41	2.96	2.28	SD-30LP
4	CP-1034-ND	3.55	3.08	2.37	SD-40LP
5	CP-1035-ND	3.73	3.24	2.49	SD-50LP
6	CP-1036-ND	3.88	3.36	2.59	SD-60LP
7	CP-1037-ND	4.02	3.49	2.68	SD-70LP
8	CP-1038-ND	4.16	3.61	2.78	SD-80LP
In-Line Right Angle Plugs					
3	CP-1330-ND	2.28	1.98	1.52	SDR-30
5	CP-1350-ND	2.49	2.16	1.66	SDR-50
6	CP-1360-ND	2.55	2.21	1.70	SDR-60
7	CP-1370-ND	2.73	2.37	1.82	SDR-70
8	CP-1380-ND	2.82	2.45	1.88	SDR-80
In-Line Receptacles					
3	CP-1130-ND	.65	.56	.43	SD-30J
4	CP-1140-ND	.71	.62	.47	SD-40J
5	CP-1150-ND	.73	.63	.49	SD-50J
6	CP-1160-ND	.77	.67	.51	SD-60J
7	CP-1170-ND	.83	.72	.56	SD-70J
8	CP-1180-ND	.89	.78	.60	SD-80J
13	CP-1113-ND	3.75	3.25	2.50	SD-130J



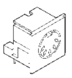
Panel Mount Receptacle



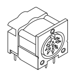
Panel Mount Locking Recept.



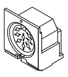
Verticle PCB Mount Recept.



Rt Angle Receptacle

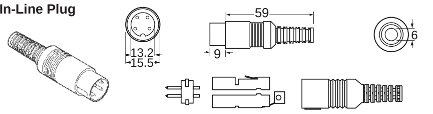


Rt Angle Front Shielded Receptacle

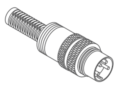


Rt Angle SMT Receptacle

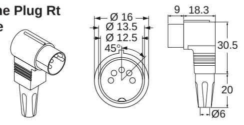
In-Line Plug



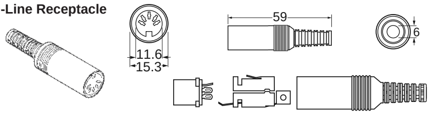
In-Line Locking Plug

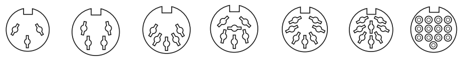


In-Line Plug Rt Angle



In-Line Receptacle





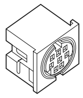
SINGATRON

Mini DIN Connectors

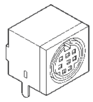
APPLICATIONS: Because of their compact size and durable design, mini-DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment.

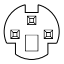
GENERAL SPECIFICATIONS: • Rating: 100V AC 1A MAX, 12V DC 2A MAX. **• Insulation Resistance:** MIN 50 MEGΩ @ 250V DC **• Voltage Withstand:** 250V AC, 1 minute **• Contact Resistance:** Pins - 30 mΩ MAX, Shell - 50 mΩ MAX (All accessories included)

Right Angle Receptacle



Shielded Right Angle Receptacle

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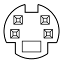
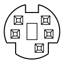
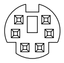
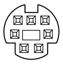
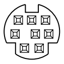

4 Pos.

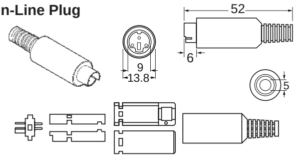

5 Pos.


6 Pos.

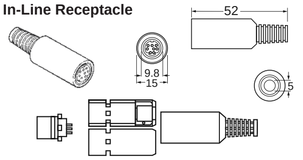

7 Pos.

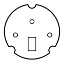

8 Pos.

In-Line Plug



In-Line Receptacle

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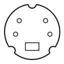
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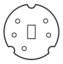
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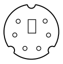
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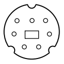
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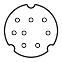
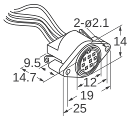

8 Pos.

Description	Digi-Key Part No.	Pricing 1	10	100	Singatron Part No.
Right Angle PCB Mount Receptacles					
3-Pos. Right Angle Receptacle	275-1040-ND	.81	7.02	54.60	2MJ-0001A110
4-Pos. Right Angle Receptacle	275-1041-ND	.84	7.29	56.70	2MJ-0002A110
5-Pos. Right Angle Receptacle	275-1042-ND	.88	7.70	59.85	2MJ-0003A110
6-Pos. Right Angle Receptacle	275-1043-ND	.93	8.10	63.00	2MJ-0004A110
7-Pos. Right Angle Receptacle	275-1044-ND	1.05	9.18	71.40	2MJ-0005A110
8-Pos. Right Angle Receptacle	275-1045-ND	1.15	9.99	77.70	2MJ-0006A110
Shielded Right Angle Receptacles					
3-Pos. Right Angle Receptacle	275-1046-ND	1.02	8.91	69.30	2MJ-0101A120
4-Pos. Right Angle Receptacle	275-1047-ND	1.05	9.18	71.40	2MJ-0102A120
5-Pos. Right Angle Receptacle	275-1048-ND	1.09	9.45	73.50	2MJ-0103A120
6-Pos. Right Angle Receptacle	275-1049-ND	1.15	9.99	77.70	2MJ-0104A120
7-Pos. Right Angle Receptacle	275-1050-ND	1.27	11.07	86.10	2MJ-0105A120
8-Pos. Right Angle Receptacle	275-1051-ND	1.36	11.88	92.40	2MJ-0106A120
In-Line Plug					
3-Pos. In-Line Plug	275-1028-ND	.93	8.10	63.00	62000-3P
4-Pos. In-Line Plug	275-1029-ND	.99	8.64	67.20	62000-4P
5-Pos. In-Line Plug	275-1030-ND	1.05	9.18	71.40	62000-5P
6-Pos. In-Line Plug	275-1031-ND	1.12	9.72	75.60	62000-6P
7-Pos. In-Line Plug	275-1032-ND	1.18	10.26	79.80	62000-7P
8-Pos. In-Line Plug	275-1033-ND	1.24	10.80	84.00	62000-8P
In-Line Receptacle					
3-Pos. In-Line Jack	275-1034-ND	1.15	9.99	77.70	63000-3P
4-Pos. In-Line Jack	275-1035-ND	1.21	10.53	81.90	63000-4P
5-Pos. In-Line Jack	275-1036-ND	1.27	11.07	86.10	63000-5P
6-Pos. In-Line Jack	275-1037-ND	1.33	11.61	90.30	63000-6P
7-Pos. In-Line Jack	275-1038-ND	1.40	12.15	94.50	63000-7P
8-Pos. In-Line Jack	275-1039-ND	1.46	12.69	98.70	63000-8P

Description	Digi-Key Part No.	Pricing 1	10	100	Singatron Part No.
Panel Mount Mini-DIN Connectors With 6" (15.24cm) Lead WIre (26AWG)					
3-Pos. Recept.	275-1100-ND	1.71	14.85	115.50	2MJ-20116000
4-Pos. Recept.	275-1101-ND	1.95	17.01	132.30	2MJ-20216000
5-Pos. Recept.	275-1102-ND	2.14	18.63	144.90	2MJ-20316000
6-Pos. Recept.	275-1103-ND	2.33	20.25	157.50	2MJ-20416000
7-Pos. Recept.	275-1104-ND	2.42	21.06	163.80	2MJ-20516000
8-Pos. Recept.	275-1105-ND	2.42	21.06	163.80	2MJ-20616000

Panel Mount Recept., Plastic



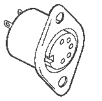
SINGATRON

Circular DIN Connectors

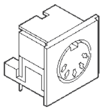
APPLICATIONS: Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value.

GENERAL SPECIFICATIONS: • Ratings: 100V AC 2A MAX **• Insulation Resistance:** MIN 100 MEGΩ @ 500V DC **• Voltage WIthstand:** 1000V AC, 1 minute **• Contact Resistance:** Pins - 10 mΩ @ MAX, Shell - 50 mΩ MAX (All accessories included)

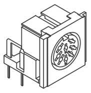
Panel Mount Receptacle

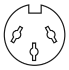


Right Angle Receptacle



Front Shielded Right Angle Receptacle

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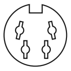
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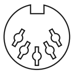
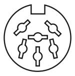
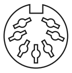
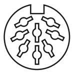
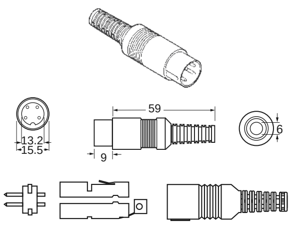

5 Pos.


6 Pos.

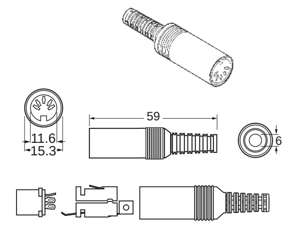

7 Pos.


8 Pos.

In-Line Plug



In-Line Jack



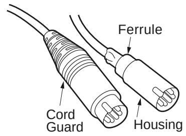
Description	Digi-Key Part No.	Pricing 1	10	100	Singatron Part No.
Panel Mount Receptacles					
3-Pos. Panel Mount Receptacle	275-1012-ND	.64	5.54	43.05	YE-1363
4-Pos. Panel Mount Receptacle	275-1013-ND	.67	5.81	45.15	YE-1364
5-Pos. Panel Mount Receptacle	275-1014-ND	.72	6.26	48.72	YE-1365A
6-Pos. Panel Mount Receptacle	275-1015-ND	.76	6.62	51.45	YE-1366
7-Pos. Panel Mount Receptacle	275-1016-ND	.82	7.16	55.65	YE-1367
8-Pos. Panel Mount Receptacle	275-1017-ND	.88	7.70	59.85	YE-1368A
Right Angle Receptacles					
5-Pos. Right Angle Receptacle	275-1019-ND	.78	6.75	52.50	2DJ-00600003
6-Pos. Right Angle Receptacle	275-1020-ND	1.24	10.80	84.00	2DJ-0196PA02
7-Pos. Right Angle Receptacle	275-1021-ND	1.33	11.61	90.30	2DJ-0077PA03
8-Pos. Right Angle Receptacle	275-1022-ND	1.43	12.42	96.60	2DJ-0108PA03
Right Angle Front Shielded Receptacles					
4-Pos. Right Angle Front Shielded	275-1023-ND	1.24	10.80	84.00	DJ-037-4PS(A)
5-Pos. Right Angle Front Shielded	275-1024-ND	1.09	9.45	73.50	2DJ-0065PSA2
6-Pos. Right Angle Front Shielded	275-1025-ND	1.43	12.42	96.60	2DJ-0196PSA2
7-Pos. Right Angle Front Shielded	275-1026-ND	1.52	13.23	102.90	2DJ-0077PSA2
8-Pos. Right Angle Front Shielded	275-1027-ND	1.71	14.85	115.50	2DJ-0108PSA2
In-Line Plug					
3-Pos. In-Line Plug	275-1000-ND	.53	4.59	35.70	YE-1153
4-Pos. In-Line Plug	275-1001-ND	.56	4.86	37.80	YE-1154
5-Pos. In-Line Plug	275-1002-ND	.59	5.13	39.90	YE-1155A
6-Pos. In-Line Plug	275-1003-ND	.62	5.40	42.00	YE-1156
7-Pos. In-Line Plug	275-1004-ND	.68	5.94	46.20	YE-1157
8-Pos. In-Line Plug	275-1005-ND	.74	6.48	50.40	YE-1158A
In-Line Jack					
3-Pos. In-Line Jack	275-1006-ND	.67	5.81	45.15	YE-1333
4-Pos. In-Line Jack	275-1007-ND	.73	6.35	49.35	YE-1334
5-Pos. In-Line Jack	275-1008-ND	.74	6.48	50.40	YE-1335A
6-Pos. In-Line Jack	275-1009-ND	.79	6.89	53.55	YE-1336
7-Pos. In-Line Jack	275-1010-ND	.85	7.43	57.75	YE-1337
8-Pos. In-Line Jack	275-1011-ND	.91	7.97	61.95	YE-1338A

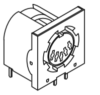
AMP tyco Electronics
Authorized Distributor

Shielded DIN Connectors

Features:
Crimp, snap-in contacts; Designed for ease of post molding; Pre-molded cord guard; Tin plated brass contacts; Ferrule crimps onto shield for reliable termination; Meets or exceeds DIN specification 41524 for 4-and-8-position plugs: 45322; UL recognized under the Component Program. File No E28476; CSA certified, File No. LR-35510.

Housings:
Black nylon 94V-O.
Ferrule and Shield: Brass, tin plated.
Cord Guard: Thermoplastic polymer, black.
Contacts: Brass, tin plated.
Pin Contacts: Copper alloy;
.00050" tin over .000100" nickel plating.




Receptacle

Description	Digi-Key Part No.	Pricing 1	25	AMP Part No.
4-Pos. Housing	A1651-ND	3.22	76.13	212437-2
5-Pos. Housing	A1652-ND	1.76	41.56	212437-3
6-Pos. Housing	A1653-ND	1.76	41.56	212437-4
8-Pos. Housing	A1655-ND	1.91	45.06	212437-6
Ferrule, 5.08mm-6.35mm Cable Dia.	A1657-ND	1.25	25.00	212435-8
Cord Guard, 4.19mm-6.35mm Cable Dia.	A1659-ND	1.93	38.50	212800-1
5-Pos. Receptacle	A1663-ND	2.63	58.58	212044-1
6-Pos. Receptacle	A1664-ND	3.24	72.63	212045-1
8-Pos. Receptacle	A1666-ND	3.50	78.44	212047-1
Pin Contact, 28-22 AWG	A1667-ND	7.08/10	49.46/100	66728-5
Contact Insertion Tool	A9998-ND	16.78	—	91002-1
Contact Extraction Tool	A9997-ND	213.30	—	91144-1

Amphenol RF "FAKRA" SMB Connectors

With recent advancements in communications technology and increased consumer demand for a diverse array of on-board telematics services, RF communications systems have become indispensable components of the modern automobile.

To keep RF interconnection costs low and ensure high levels of electrical and mechanical performance the German and American automotive industries have standardized a high-performing, cost-effective RF connector based on the FAKRA and USCAR standards.

Utilizing a standard metal SMB connector embedded within a plastic housing that can be designed with multiple colored codes for easy identification, FAKRA connectors are designed to perform up to 4 GHz and meet the particular mechanical and environmental requirements of the automobile industry.

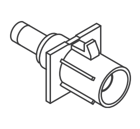
FEATURES:

Electrical: Impedance - 50Ω. Frequency Range-DC–4GHz. Performance Spec-SAE/USCAR-17. Insulation Resistance-1000MΩ min. Center Contact Resistance-center contact <20 mΩ, outer contact <10 mΩ. Dielectric Withstanding Voltage-at sea level >1000VRMS.

Mechanical: Durability (matings)-100 min. Plastic Housing – Engagement Force- ≤ 20 N. Plastic Housing – Disengagement Force-≥ 25 N. Coding-13 mechanical and colored codings. Operating Temperature Range- –40°C/+115°C.

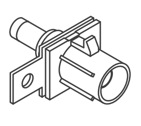
Materials: Plastic Housing-PBT with 15% Glass Fiber. Secondary Locking Clip-PBT with 15% Glass Fiber. Center Contact-female: Beryllium Copper, male: Brass. Body-Brass. Barrel-Brass. Retainer Ring-Beryllium Copper. Ferrule-Copper. Insulator-TFE. Plating: Center Contact-Gold. Body, Barrel and Ferrule-Nickel.

Fig. 1



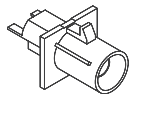
Single Male

Fig. 2



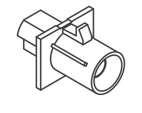
Single Male with Bracket

Fig. 3



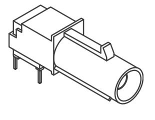
Single Male Edgecard with Support Legs

Fig. 4



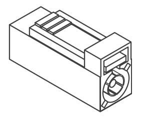
Single Male Edgecard without Support Legs

Fig. 5



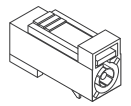
Single Male R/A PCB with Extended Housing

Fig. 6



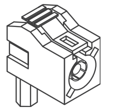
Single Female

Fig. 7



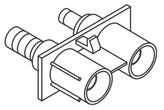
Single Female with Clip Provision at 6 o'clock

Fig. 8



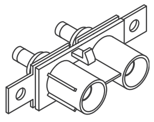
Single R/A Female

Fig. 9



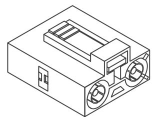
Dual Male

Fig. 10



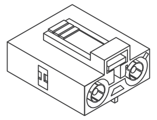
Dual Male with Bracket

Fig. 11



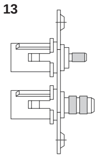
Dual Female

Fig. 12



Dual Female with Clip Provision at 6 o'clock

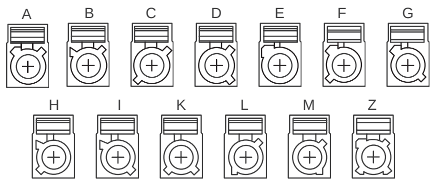
Fig. 13



Twin SMB Crimp Plug

FAKRA Keying Codes

Female Housings



Mechanical and Color Coding

Coding	Rib Combination	Color	Similar RAL No.
A	A - B1	Deep Black	9005
B	A - B2	Signal White	9003
C	A - C	Signal Blue	5005
D	A - D	Bordeaux Violet	4004
E	B1 - B2	Leaf Green	6002
F	B1 - C	Brown	8011
G	B1 - D	Blue Grey	7031
H	B2 - C	Heather Violet	4003
I	B2 - D	Beige	1001
K	C - D	Curry Yellow	1027
L	A - E	Dahlia Yellow	1033
M	A - F	Pastel Green	6019
Z	Neutral Coding	Water Blue	5021

Male Housings

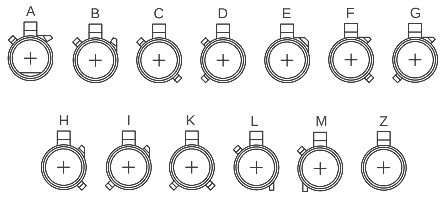


Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol Part No.
	FAKRA Coding "A" (Deep Black)						
1	RG-174, 188, 316	ARF1253-ND	3.21	2.68	1.73	1.61	FA1-NASP-C01-1
	RG-58, 141	ARF1255-ND	3.38	2.82	1.83	1.70	FA1-NASP-C04-1
2	5RG-174, 188, 316	ARF1252-ND	3.48	2.91	1.88	1.75	FA1-NASP-C01-0
	RG-58, 141	ARF1254-ND	3.62	3.02	1.96	1.82	FA1-NASP-C04-0
3	—	ARF1256-ND	3.28	2.74	1.77	1.64	FA1-NASP-PCB-0
4	—	ARF1257-ND	3.35	2.79	1.81	1.68	FA1-NASP-PCB-1
5	—	ARF1274-ND	2.73	2.28	1.47	1.37	FA1-NARP-PCB-9
6	Cables with .057 OD	ARF1250-ND	4.11	3.43	2.22	2.06	FA1-NASJ-C09-0
	RG-178, .071 OD Cables	ARF1251-ND	4.11	3.43	2.22	2.06	FA1-NASJ-C10-0
	RG-174, 188, 316	ARF1266-ND	3.59	2.99	1.94	1.80	FA1-NASJ-C01-0
	RG-58, 141	ARF1268-ND	3.69	3.08	1.99	1.85	FA1-NASJ-C04-0
7	RG-174, 188, 316	ARF1267-ND	3.69	3.08	1.99	1.85	FA1-NASJ-C01-6
	RG-58, 141	ARF1269-ND	3.80	3.17	2.05	1.90	FA1-NASJ-C04-6
8	RG-174, 188, 316	ARF1272-ND	4.11	3.43	2.22	2.06	FA1-NARJ-C01-0
	RG-58, 141	ARF1273-ND	4.31	3.60	2.33	2.16	FA1-NARJ-C04-0
9	RG-58/RG-174 Combo Design	ARF1263-ND	6.87	5.73	3.70	3.44	FA2-NASP-C00-9
	RG-174, 188, 316	ARF1270-ND	6.73	5.61	3.63	3.37	FA2-NASP-C01-9
	RG-58, 141	ARF1271-ND	6.80	5.67	3.66	3.40	FA2-NASP-C04-9
10	RG-58/RG-174 Combo Design	ARF1262-ND	7.21	6.01	3.89	3.61	FA2-NASP-C00-0
	RG-174, 188, 316	ARF1264-ND	7.07	5.90	3.81	3.54	FA2-NASP-C01-0
	RG-58, 141	ARF1265-ND	7.14	5.96	3.85	3.58	FA2-NASP-C04-0
11	RG-174, 188, 316	ARF1258-ND	7.76	6.47	4.18	3.89	FA2-NASJ-C01-0
	RG-58, 141	ARF1260-ND	7.90	6.59	4.26	3.96	FA2-NASJ-C04-0
12	RG-174, 188, 316	ARF1259-ND	7.90	6.59	4.26	3.96	FA2-NASJ-C01-6
	RG-58, 141	ARF1261-ND	8.07	6.73	4.35	4.04	FA2-NASJ-C04-6
	FAKRA Coding "B" (Signal White)						
1	RG-174, 188, 316	ARF1278-ND	3.21	2.68	1.73	1.61	FA1-NBSP-C01-1
	RG-58, 141	ARF1280-ND	3.38	2.82	1.83	1.70	FA1-NBSP-C04-1
2	RG-174, 188, 316	ARF1277-ND	3.48	2.91	1.88	1.75	FA1-NBSP-C01-0
	RG-58, 141	ARF1279-ND	3.62	3.02	1.96	1.82	FA1-NBSP-C04-0
3	—	ARF1281-ND	3.28	2.74	1.77	1.64	FA1-NBSP-PCB-0
4	—	ARF1282-ND	3.35	2.79	1.81	1.68	FA1-NBSP-PCB-1
5	—	ARF1286-ND	2.73	2.28	1.47	1.37	FA1-NBRP-PCB-9
6	RG-174, 188, 316	ARF1287-ND	3.59	2.99	1.94	1.80	FA1-NBSJ-C01-0
	RG-58, 141	ARF1289-ND	3.69	3.08	1.99	1.85	FA1-NBSJ-C04-0
	Cables with .057 OD	ARF1291-ND	4.11	3.43	2.22	2.06	FA1-NBSJ-C09-0
	RG-178, .071 OD Cables	ARF1292-ND	4.11	3.43	2.22	2.06	FA1-NBSJ-C10-0
7	RG-174, 188, 316	ARF1288-ND	3.69	3.08	1.99	1.85	FA1-NBSJ-C01-6
	RG-58, 141	ARF1290-ND	3.80	3.17	2.05	1.90	FA1-NBSJ-C04-6
8	RG-174, 188, 316	ARF1275-ND	4.11	3.43	2.22	2.06	FA1-NBRJ-C01-0
	RG-58, 141	ARF1276-ND	4.31	3.60	2.33	2.16	FA1-NBRJ-C04-0
9	RG-58/RG-174 Combo Design	ARF1297-ND	6.87	5.73	3.70	3.44	FA2-NBSP-C00-9
	RG-174, 188, 316	ARF1298-ND	6.73	5.61	3.63	3.37	FA2-NBSP-C01-9
	RG-58, 141	ARF1299-ND	6.80	5.67	3.66	3.40	FA2-NBSP-C04-9
10	RG-58/RG-174 Combo Design	ARF1283-ND	7.21	6.01	3.89	3.61	FA2-NBSP-C00-0
	RG-174, 188, 316	ARF1284-ND	7.07	5.90	3.81	3.54	FA2-NBSP-C01-0
	RG-58, 141	ARF1285-ND	7.14	5.96	3.85	3.58	FA2-NBSP-C04-0
11	RG-174, 188, 316	ARF1293-ND	7.76	6.47	4.18	3.89	FA2-NBSJ-C01-0
	RG-58, 141	ARF1295-ND	7.90	6.59	4.26	3.96	FA2-NBSJ-C04-0
12	RG-174, 188, 316	ARF1294-ND	7.90	6.59	4.26	3.96	FA2-NBSJ-C01-6
	RG-58, 141	ARF1296-ND	8.07	6.73	4.35	4.04	FA2-NBSJ-C04-6
	FAKRA Coding "C" (Signal Blue)						
1	RG-174, 188, 316	ARF1316-ND	3.21	2.68	1.73	1.61	FA1-NCSP-C01-1
	RG-58, 141	ARF1317-ND	3.38	2.82	1.83	1.70	FA1-NCSP-C04-1
2	RG-174, 188, 316	ARF1300-ND	3.48	2.91	1.88	1.75	FA1-NCSP-C01-0
	RG-58, 141	ARF1301-ND	3.62	3.02	1.96	1.82	FA1-NCSP-C04-0
3	—	ARF1302-ND	3.28	2.74	1.77	1.64	FA1-NCSP-PCB-0
4	—	ARF1303-ND	3.35	2.79	1.81	1.68	FA1-NCSP-PCB-1
5	—	ARF1309-ND	2.73	2.28	1.47	1.37	FA1-NCRP-PCB-9
6	RG-174, 188, 316	ARF1310-ND	3.59	2.99	1.94	1.80	FA1-NCSJ-C01-0
	RG-58, 141	ARF1312-ND	3.69	3.08	1.99	1.85	FA1-NCSJ-C04-0
	Cables with .057 OD	ARF1314-ND	4.11	3.43	2.22	2.06	FA1-NCSJ-C09-0
	RG-178, .071 OD Cables	ARF1315-ND	4.11	3.43	2.22	2.06	FA1-NCSJ-C10-0
7	RG-174, 188, 316	ARF1311-ND	3.69	3.08	1.99	1.85	FA1-NCSJ-C01-6
	RG-58, 141	ARF1313-ND	3.80	3.17	2.05	1.90	FA1-NCSJ-C04-6
8	RG-174, 188, 316	ARF1307-ND	4.11	3.43	2.22	2.06	FA1-NCRJ-C01-0
	RG-58, 141	ARF1308-ND	4.31	3.60	2.33	2.16	FA1-NCRJ-C04-0
9	RG-58/RG-174 Combo Design	ARF1322-ND	6.87	5.73	3.70	3.44	FA2-NCSP-C00-9
	RG-174, 188, 316	ARF1323-ND	6.73	5.61	3.63	3.37	FA2-NCSP-C01-9
	RG-58, 141	ARF1324-ND	6.80	5.67	3.66	3.40	FA2-NCSP-C04-9
10	RG-58/RG-174 Combo Design	ARF1304-ND	7.21	6.01	3.89	3.61	FA2-NCSP-C00-0
	RG-174, 188, 316	ARF1305-ND	7.07	5.90	3.81	3.54	FA2-NCSP-C01-0
	RG-58, 141	ARF1306-ND	7.14	5.96	3.85	3.58	FA2-NCSP-C04-0
11	RG-174, 188, 316	ARF1318-ND	7.76	6.47	4.18	3.89	FA2-NCSJ-C01-0
	RG-58, 141	ARF1320-ND	7.90	6.59	4.26	3.96	FA2-NCSJ-C04-0
12	RG-174, 188, 316	ARF1319-ND	7.90	6.59	4.26	3.96	FA2-NCSJ-C01-6
	RG-58, 141	ARF1321-ND	8.07	6.73	4.35	4.04	FA2-NCSJ-C04-6
13	RG-58/RG-174 Combo Design	ARF1325-ND	6.80	5.67	3.66	3.40	FC2-NCDSP-C00-0

(*Continued*)

“FAKRA” SMB Connectors *(Cont.)*

Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each				Amphenol Part No.
			1	10	25	100	
FAKRA Coding “D” (Bordeaux Violet)							
1	RG-174, 188, 316	ARF1343-ND	3.21	2.68	1.73	1.61	FA1-NDSP-C01-1
	RG-58, 141	ARF1344-ND	3.38	2.82	1.83	1.70	FA1-NDSP-C04-1
2	RG-174, 188, 316	ARF1331-ND	3.48	2.91	1.88	1.75	FA1-NDSP-C01-0
	RG-58, 141	ARF1332-ND	3.62	3.02	1.96	1.82	FA1-NDSP-C04-0
3	—	ARF1333-ND	3.28	2.74	1.77	1.64	FA1-NDSP-PCB-0
4	—	ARF1334-ND	3.35	2.79	1.81	1.68	FA1-NDSP-PCB-1
5	—	ARF1328-ND	2.73	2.28	1.47	1.37	FA1-NDRP-PCB-9
6	Cables with .057 OD	ARF1329-ND	4.11	3.43	2.22	2.06	FA1-NDSJ-C09-0
	RG-178, .071 OD Cables	ARF1330-ND	4.11	3.43	2.22	2.06	FA1-NDSJ-C10-0
	RG-174, 188, 316	ARF1339-ND	3.59	2.99	1.94	1.80	FA1-NDSJ-C01-0
	RG-58, 141	ARF1341-ND	3.69	3.08	1.99	1.85	FA1-NDSJ-C04-0
7	RG-174, 188, 316	ARF1340-ND	3.69	3.08	1.99	1.85	FA1-NDSJ-C01-6
	RG-58, 141	ARF1342-ND	3.80	3.17	2.05	1.90	FA1-NDSJ-C04-6
8	RG-174, 188, 316	ARF1337-ND	4.11	3.43	2.22	2.06	FA1-NDRJ-C01-0
	RG-58, 141	ARF1338-ND	4.31	3.60	2.33	2.16	FA1-NDRJ-C04-0
9	RG-58/RG-174 Combo Design	ARF1349-ND	6.87	5.73	3.70	3.44	FA2-NDSP-C00-9
	RG-174, 188, 316	ARF1351-ND	6.73	5.61	3.63	3.37	FA2-NDSP-C01-9
	RG-58, 141	ARF1352-ND	6.80	5.67	3.66	3.40	FA2-NDSP-C04-9
10	RG-58/RG-174 Combo Design	ARF1335-ND	7.21	6.01	3.89	3.61	FA2-NDSP-C00-0
	RG-58, 141	ARF1336-ND	7.14	5.96	3.85	3.58	FA2-NDSP-C04-0
	RG-174, 188, 316	ARF1350-ND	7.07	5.90	3.81	3.54	FA2-NDSP-C01-0
11	RG-174, 188, 316	ARF1345-ND	7.76	6.47	4.18	3.89	FA2-NDSJ-C01-0
	RG-58, 141	ARF1347-ND	7.90	6.59	4.26	3.96	FA2-NDSJ-C04-0
12	RG-174, 188, 316	ARF1346-ND	7.90	6.59	4.26	3.96	FA2-NDSJ-C01-6
	RG-58, 141	ARF1348-ND	8.07	6.73	4.35	4.04	FA2-NDSJ-C04-6
FAKRA Coding “E” (Leaf Green)							
1	RG-174, 188, 316	ARF1356-ND	3.21	2.68	1.73	1.61	FA1-NESP-C01-1
	RG-58, 141	ARF1358-ND	3.38	2.82	1.83	1.70	FA1-NESP-C04-1
2	RG-174, 188, 316	ARF1355-ND	3.48	2.91	1.88	1.75	FA1-NESP-C01-0
	RG-58, 141	ARF1357-ND	3.62	3.02	1.96	1.82	FA1-NESP-C04-0
3	—	ARF1359-ND	3.28	2.74	1.77	1.64	FA1-NESP-PCB-0
4	—	ARF1360-ND	3.35	2.79	1.81	1.68	FA1-NESP-PCB-1
5	—	ARF1371-ND	2.73	2.28	1.47	1.37	FA1-NERP-PCB-9
6	RG-174, 188, 316	ARF1372-ND	3.59	2.99	1.94	1.80	FA1-NESJ-C01-0
	RG-58, 141	ARF1374-ND	3.69	3.08	1.99	1.85	FA1-NESJ-C04-0
	Cables with .057 OD	ARF1376-ND	4.11	3.43	2.22	2.06	FA1-NESJ-C09-0
	RG-178, .071 OD Cables	ARF1377-ND	4.11	3.43	2.22	2.06	FA1-NESJ-C10-0
7	RG-174, 188, 316	ARF1373-ND	3.69	3.08	1.99	1.85	FA1-NESJ-C01-6
	RG-58, 141	ARF1375-ND	3.80	3.17	2.05	1.90	FA1-NESJ-C04-6
8	RG-174, 188, 316	ARF1353-ND	4.11	3.43	2.22	2.06	FA1-NERJ-C01-0
	RG-58, 141	ARF1354-ND	4.31	3.60	2.33	2.16	FA1-NERJ-C04-0
9	RG-58/RG-174 Combo Design	ARF1366-ND	6.87	5.73	3.70	3.44	FA2-NESP-C00-9
	RG-174, 188, 316	ARF1368-ND	6.73	5.61	3.63	3.37	FA2-NESP-C01-9
	RG-58, 141	ARF1370-ND	6.80	5.67	3.66	3.40	FA2-NESP-C04-9
10	RG-58/RG-174 Combo Design	ARF1365-ND	7.21	6.01	3.89	3.61	FA2-NESP-C00-0
	RG-174, 188, 316	ARF1367-ND	7.07	5.90	3.81	3.54	FA2-NESP-C01-0
	RG-58, 141	ARF1369-ND	7.14	5.96	3.85	3.58	FA2-NESP-C04-0
11	RG-174, 188, 316	ARF1361-ND	7.76	6.47	4.18	3.89	FA2-NESJ-C01-0
	RG-58, 141	ARF1363-ND	7.90	6.59	4.26	3.96	FA2-NESJ-C04-0
12	RG-174, 188, 316	ARF1362-ND	7.90	6.59	4.26	3.96	FA2-NESJ-C01-6
	RG-58, 141	ARF1364-ND	8.07	6.73	4.35	4.04	FA2-NESJ-C04-6
FAKRA Coding “F” (Brown)							
1	RG-174, 188, 316	ARF1384-ND	3.21	2.68	1.73	1.61	FA1-NFSP-C01-1
	RG-58, 141	ARF1386-ND	3.38	2.82	1.83	1.70	FA1-NFSP-C04-1
2	RG-174, 188, 316	ARF1383-ND	3.48	2.91	1.88	1.75	FA1-NFSP-C01-0
	RG-58, 141	ARF1385-ND	3.62	3.02	1.96	1.82	FA1-NFSP-C04-0
3	—	ARF1387-ND	3.28	2.74	1.77	1.64	FA1-NFSP-PCB-0
4	—	ARF1388-ND	3.35	2.79	1.81	1.68	FA1-NFSP-PCB-1
5	—	ARF1380-ND	2.73	2.28	1.47	1.37	FA1-NFRP-PCB-9
6	Cables with .057 OD	ARF1381-ND	4.11	3.43	2.22	2.06	FA1-NFSJ-C09-0
	RG-178, .071 OD Cables	ARF1382-ND	4.11	3.43	2.22	2.06	FA1-NFSJ-C10-0
	RG-174, 188, 316	ARF1399-ND	3.59	2.99	1.94	1.80	FA1-NFSJ-C01-0
	RG-58, 141	ARF1401-ND	3.69	3.08	1.99	1.85	FA1-NFSJ-C04-0
7	RG-174, 188, 316	ARF1400-ND	3.69	3.08	1.99	1.85	FA1-NFSJ-C01-6
	RG-58, 141	ARF1402-ND	3.80	3.17	2.05	1.90	FA1-NFSJ-C04-6
8	RG-174, 188. 316	ARF1378-ND	4.11	3.43	2.22	2.06	FA1-NFRJ-C01-0
	RG-58, 141	ARF1379-ND	4.31	3.60	2.33	2.16	FA1-NFRJ-C04-0
9	RG-58/RG-174 Combo Design	ARF1394-ND	6.87	5.73	3.70	3.44	FA2-NFSP-C00-9
	RG-174, 188, 316	ARF1396-ND	6.73	5.61	3.63	3.37	FA2-NFSP-C01-9
	RG-58, 141	ARF1398-ND	6.80	5.67	3.66	3.40	FA2-NFSP-C04-9
10	RG-58/RG-174 Combo Design	ARF1393-ND	7.21	6.01	3.89	3.61	FA2-NFSP-C00-0
	RG-174, 188, 316	ARF1395-ND	7.07	5.90	3.81	3.54	FA2-NFSP-C01-0
	RG-58, 141	ARF1397-ND	7.14	5.96	3.85	3.58	FA2-NFSP-C04-0
11	RG-174, 188, 316	ARF1389-ND	7.76	6.47	4.18	3.89	FA2-NFSJ-C01-0
	RG-58, 141	ARF1391-ND	7.90	6.59	4.26	3.96	FA2-NFSJ-C04-0
12	RG-174, 188, 316	ARF1390-ND	7.90	6.59	4.26	3.96	FA2-NFSJ-C01-6
	RG-58, 141	ARF1392-ND	8.07	6.73	4.35	4.04	FA2-NFSJ-C04-6
FAKRA Coding “G” (Blue Grey)							
1	RG-174, 188, 316	ARF1408-ND	3.21	2.68	1.73	1.61	FA1-NGSP-C01-1
	RG-58, 141	ARF1410-ND	3.38	2.82	1.83	1.70	FA1-NGSP-C04-1
2	RG-174, 188, 316	ARF1407-ND	3.48	2.91	1.88	1.75	FA1-NGSP-C01-0
	RG-58, 141	ARF1409-ND	3.62	3.02	1.96	1.82	FA1-NGSP-C04-0
3	—	ARF1411-ND	3.28	2.74	1.77	1.64	FA1-NGSP-PCB-0
4	—	ARF1412-ND	3.35	2.79	1.81	1.68	FA1-NGSP-PCB-1
5	—	ARF1405-ND	2.73	2.28	1.47	1.37	FA1-NGRP-PCB-9
6	Cables with .057 OD	ARF1406-ND	4.11	3.43	2.22	2.06	FA1-NGSJ-C09-0
	RG-174, 188, 316	ARF1413-ND	3.59	2.99	1.94	1.80	FA1-NGSJ-C01-0
	RG-58, 141	ARF1415-ND	3.69	3.08	1.99	1.85	FA1-NGSJ-C04-0
	RG-178, .071 OD Cables	ARF1417-ND	4.11	3.43	2.22	2.06	FA1-NGSJ-C10-0
7	RG-174, 188, 316	ARF1414-ND	3.69	3.08	1.99	1.85	FA1-NGSJ-C01-6
	RG-58, 141	ARF1416-ND	3.80	3.17	2.05	1.90	FA1-NGSJ-C04-6
8	RG-174, 188, 316	ARF1403-ND	4.11	3.43	2.22	2.06	FA1-NGRJ-C01-0
	RG-58, 141	ARF1404-ND	4.31	3.60	2.33	2.16	FA1-NGRJ-C04-0
FAKRA Coding “H” (Heather Violet)							
1	RG-174, 188, 316	ARF1423-ND	3.21	2.68	1.73	1.61	FA1-NHSP-C01-1
	RG-58, 141	ARF1425-ND	3.38	2.82	1.83	1.70	FA1-NHSP-C04-1
2	RG-174, 188, 316	ARF1422-ND	3.48	2.91	1.88	1.75	FA1-NHSP-C01-0
	RG-58, 141	ARF1424-ND	3.62	3.02	1.96	1.82	FA1-NHSP-C04-0
3	—	ARF1426-ND	3.28	2.74	1.77	1.64	FA1-NHSP-PCB-0
4	—	ARF1427-ND	3.35	2.79	1.81	1.68	FA1-NHSP-PCB-1
5	—	ARF1420-ND	2.73	2.28	1.47	1.37	FA1-NHRP-PCB-9
6	Cables with .057 OD	ARF1421-ND	4.11	3.43	2.22	2.06	FA1-NHSJ-C09-0
	RG-174, 188, 316	ARF1428-ND	3.59	2.99	1.94	1.80	FA1-NHSJ-C01-0
	RG-58, 141	ARF1430-ND	3.69	3.08	1.99	1.85	FA1-NHSJ-C04-0
	RG-178, .071 OD Cables	ARF1432-ND	4.11	3.43	2.22	2.06	FA1-NHSJ-C10-0
7	RG-174, 188, 316	ARF1429-ND	3.69	3.08	1.99	1.85	FA1-NHSJ-C01-6
	RG-58, 141	ARF1431-ND	3.80	3.17	2.05	1.90	FA1-NHSJ-C04-6
8	RG-174, 188, 316	ARF1418-ND	4.11	3.43	2.22	2.06	FA1-NHRJ-C01-0
	RG-58, 141	ARF1419-ND	4.31	3.60	2.33	2.16	FA1-NHRJ-C04-0
FAKRA Coding “I” (Beige)							
1	RG-174, 188, 316	ARF1439-ND	3.21	2.68	1.73	1.61	FA1-NISP-C01-1
	RG-58, 141	ARF1441-ND	3.38	2.82	1.83	1.70	FA1-NISP-C04-1
2	RG-174, 188, 316	ARF1438-ND	3.48	2.91	1.88	1.75	FA1-NISP-C01-0
	RG-58, 141	ARF1440-ND	3.62	3.02	1.96	1.82	FA1-NISP-C04-0
3	—	ARF1442-ND	3.28	2.74	1.77	1.64	FA1-NISP-PCB-0
4	—	ARF1443-ND	3.35	2.79	1.81	1.68	FA1-NISP-PCB-1
5	—	ARF1435-ND	2.73	2.28	1.47	1.37	FA1-NIRP-PCB-9
6	Cables with .057 OD	ARF1436-ND	4.11	3.43	2.22	2.06	FA1-NISJ-C09-0
	RG-178, .071 OD Cables	ARF1437-ND	4.11	3.43	2.22	2.06	FA1-NISJ-C10-0
	RG-174, 188, 316	ARF1444-ND	3.59	2.99	1.94	1.80	FA1-NISJ-C01-0
	RG-58, 141	ARF1446-ND	3.69	3.08	1.99	1.85	FA1-NISJ-C04-0
7	RG-174, 188, 316	ARF1445-ND	3.69	3.08	1.99	1.85	FA1-NISJ-C01-6
	RG-58, 141	ARF1447-ND	3.80	3.17	2.05	1.90	FA1-NISJ-C04-6
8	RG-174, 188, 316	ARF1433-ND	4.11	3.43	2.22	2.06	FA1-NIRJ-C01-0
	RG-58, 141	ARF1434-ND	4.31	3.60	2.33	2.16	FA1-NIRJ-C04-0
FAKRA Coding “K” (Curry Yellow)							
1	RG-174, 188, 316	ARF1481-ND	3.21	2.68	1.73	1.61	FA1-NKSP-C01-1
	RG-58, 141	ARF1483-ND	3.38	2.82	1.83	1.70	FA1-NKSP-C04-1
2	RG-174, 188, 316	ARF1480-ND	3.48	2.91	1.88	1.75	FA1-NKSP-C01-0
	RG-58, 141	ARF1482-ND	3.62	3.02	1.96	1.82	FA1-NKSP-C04-0
3	—	ARF1484-ND	3.28	2.74	1.77	1.64	FA1-NKSP-PCB-0
4	—	ARF1485-ND	3.35	2.79	1.81	1.68	FA1-NKSP-PCB-1
5	—	ARF1486-ND	2.73	2.28	1.47	1.37	FA1-NKRP-PCB-9
6	RG-174, 188, 316	ARF1487-ND	3.59	2.99	1.94	1.80	FA1-NKSJ-C01-0
	RG-58, 141	ARF1489-ND	3.69	3.08	1.99	1.85	FA1-NKSJ-C04-0
	Cables with .057 OD	ARF1491-ND	4.11	3.43	2.22	2.06	FA1-NKSJ-C09-0
	RG-178, .071 OD Cables	ARF1492-ND	4.11	3.43	2.22	2.06	FA1-NKSJ-C10-0
7	RG-174, 188, 316	ARF1488-ND	3.69	3.08	1.99	1.85	FA1-NKSJ-C01-6
	RG-58, 141	ARF1490-ND	3.80	3.17	2.05	1.90	FA1-NKSJ-C04-6
8	RG-174, 188, 316	ARF1478-ND	4.11	3.43	2.22	2.06	FA1-NKRJ-C01-0
	RG-58, 141	ARF1479-ND	4.31	3.60	2.33	2.16	FA1-NKRJ-C04-0
FAKRA Coding “L” (Dahlia Yellow)							
1	RG-174, 188, 316	ARF1503-ND	3.21	2.68	1.73	1.61	FA1-NLSP-C01-1
	RG-58, 141	ARF1505-ND	3.38	2.82	1.83	1.70	FA1-NLSP-C04-1
2	RG-174, 188, 316	ARF1502-ND	3.48	2.91	1.88	1.75	FA1-NLSP-C01-0
	RG-58, 141	ARF1504-ND	3.62	3.02	1.96	1.82	FA1-NLSP-C04-0
3	—	ARF1506-ND	3.28	2.74	1.77	1.64	FA1-NLSP-PCB-0
4	—	ARF1507-ND	3.35	2.79	1.81	1.68	FA1-NLSP-PCB-1
5	—	ARF1495-ND	2.73	2.28	1.47	1.37	FA1-NLRP-PCB-9
6	RG-174, 188, 316	ARF1496-ND	3.59	2.99	1.94	1.80	FA1-NLSJ-C01-0
	RG-58, 141	ARF1498-ND	3.69	3.08	1.99	1.85	FA1-NLSJ-C04-0
	Cables with .057 OD	ARF1500-ND	4.11	3.43	2.22	2.06	FA1-NLSJ-C09-0
	RG-178, .071 OD Cables	ARF1501-ND	4.11	3.43	2.22	2.06	FA1-NLSJ-C10-0
7	RG-174, 188, 316	ARF1497-ND	3.69	3.08	1.99	1.85	FA1-NLSJ-C01-6
	RG-58, 141	ARF1499-ND	3.80	3.17	2.05	1.90	FA1-NLSJ-C04-6
8	RG-174, 188, 316	ARF1493-ND	4.11	3.43	2.22	2.06	FA1-NLRJ-C01-0
	RG-58, 141	ARF1494-ND	4.31	3.60	2.33	2.16	FA1-NLRJ-C04-0
FAKRA Coding “M” (Pastel Green)							
1	RG-174, 188, 316	ARF1518-ND	3.21	2.68	1.73	1.61	FA1-NMSP-C01-1
	RG-58, 141	ARF1520-ND	3.38	2.82	1.83	1.70	FA1-NMSP-C04-1
2	RG-174, 188, 316	ARF1517-ND	3.48	2.91	1.88	1.75	FA1-NMSP-C01-0
	RG-58, 141	ARF1519-ND	3.62	3.02	1.96	1.82	FA1-NMSP-C04-0
3	—	ARF1521-ND	3.28	2.74	1.77	1.64	FA1-NMSP-PCB-0
4	—	ARF1522-ND	3.35	2.79	1.81	1.68	FA1-NMSP-PCB-1
5	—	ARF1510-ND	2.73	2.28	1.47	1.37	FA1-NMRP-PCB-9
6	RG-174, 188, 316	ARF1511-ND	3.59	2.99	1.94	1.80	FA1-NMSJ-C01-0
	RG-58, 141	ARF1513-ND	3.69	3.08	1.99	1.85	FA1-NMSJ-C04-0
	Cables with .057 OD	ARF1515-ND	4.11	3.43	2.22	2.06	FA1-NMSJ-C09-0
	RG-178, .071 OD Cables	ARF1516-ND	4.11	3.43	2.22	2.06	FA1-NMSJ-C10-0
7	RG-174, 188, 316	ARF1512-ND	3.69	3.08	1.99	1.85	FA1-NMSJ-C01-6
	RG-58, 141	ARF1514-ND	3.80	3.17	2.05	1.90	FA1-NMSJ-C04-6
8	RG-174, 188, 316	ARF1508-ND	4.11	3.43	2.22	2.06	FA1-NMRJ-C01-0
	RG-58, 141	ARF1509-ND	4.31	3.60	2.33	2.16	FA1-NMRJ-C04-0
FAKRA Coding “Z” (Water Blue)							
1	RG-174, 188, 316	ARF1533-ND	3.21	2.68	1.73	1.61	FA1-NZSP-C01-1
	RG-58, 141	ARF1535-ND	3.38	2.82	1.83	1.70	FA1-NZSP-C04-1
2	RG-174, 188, 316	ARF1532-ND	3.48	2.91	1.88	1.75	FA1-NZSP-C01-0
	RG-58, 141	ARF1534-ND	3.62	3.02	1.96	1.82	FA1-NZSP-C04-0
3	—	ARF1536-ND	3.28	2.74	1.77	1.64	FA1-NZSP-PCB-0
4	—	ARF1537-ND	3.35	2.79	1.81	1.68	FA1-NZSP-PCB-1
5	—	ARF1525-ND	2.73	2.28	1.47	1.37	FA1-NZRP-PCB-9
6	RG-174, 188, 316	ARF1526-ND	3.59	2.99	1.94	1.80	FA1-NZSJ-C01-0
	RG-58, 141	ARF1528-ND	3.69	3.08	1.99	1.85	FA1-NZSJ-C04-0
	Cables with .057 OD	ARF1530-ND	4.11	3.43	2.22	2.06	FA1-NZSJ-C09-0
	RG-178, .071 OD Cables	ARF1531-ND	4.11	3.43	2.22	2.06	FA1-NZSJ-C10-0
7	RG-174, 188, 316	ARF1527-ND	3.69	3.08	1.99	1.85	FA1-NZSJ-C01-6
	RG-58, 141	ARF1529-ND	3.80	3.17	2.05	1.90	FA1-NZSJ-C04-6
8	RG-174, 188, 316	ARF1523-ND	4.11	3.43	2.22	2.06	FA1-NZRJ-C01-0
	RG-58, 141	ARF1524-ND	4.31	3.60	2.33	2.16	FA1-NZRJ-C04-0
9	RG-58/RG-174 Combo Design	ARF1543-ND	6.87	5.73	3.70	3.44	FA2-NZSP-C00-9
	RG-174, 188, 316	ARF1545-ND	6.73	5.61	3.63	3.37	FA2-NZSP-C01-9
	RG-58, 141	ARF1547-ND	6.80	5.67	3.66	3.40	FA2-NZSP-C04-9
10	RG-58/RG-174 Combo Design	ARF1542-ND	7.21	6.01	3.89	3.61	FA2-NZSP-C00-0
	RG-174, 188, 316	ARF1544-ND	7.07	5.90	3.81	3.54	FA2-NZSP-C01-0
	RG-58, 141	ARF1546-ND	7.14	5.96	3.85	3.58	FA2-NZSP-C04-0
11	RG-174, 188, 316	ARF1538-ND	7.76	6.47	4.18	3.89	FA2-NZSJ-C01-0
	RG-58, 141	ARF1540-ND	7.90	6.59	4.26	3.96	FA2-NZSJ-C04-0
12	RG-174, 188, 316	ARF1539-ND	7.90	6.59	4.26	3.96	FA2-NZSJ-C01-6
	RG-58, 141	ARF1541-ND	8.07	6.73	4.35	4.04	FA2-NZSJ-C04-6

SMA & SMB Connectors

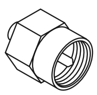
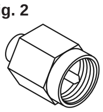
Fig. 1


Fig. 2


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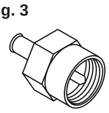

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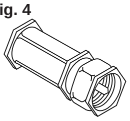

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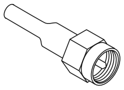

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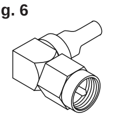

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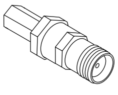

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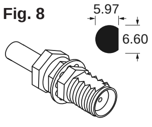

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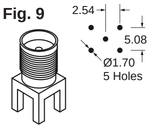

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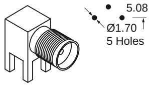

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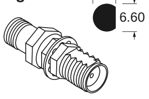

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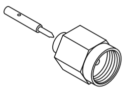

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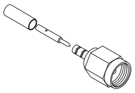

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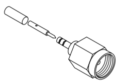

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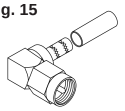

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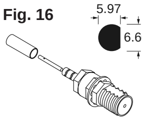

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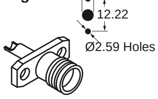

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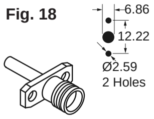

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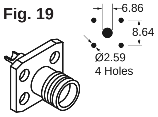

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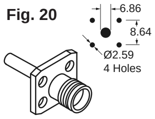

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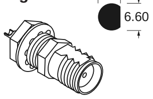

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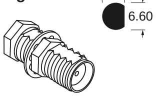

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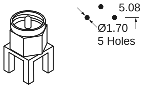

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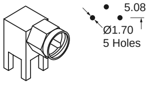

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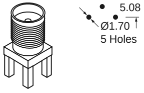

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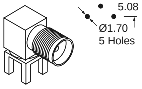

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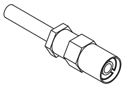

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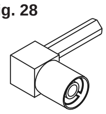

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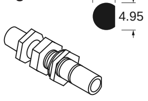

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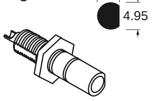

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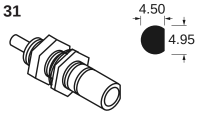

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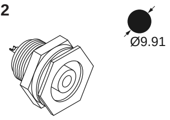

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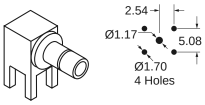

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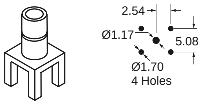


SMA Coaxial Connectors

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Amphenol Part No.
1	Plug, Straight	.085" (2.2mm) RG-405 (M17/133)	Gold	Solder	Plugable	ARF1184-ND	5.62	97.75	340.00	901-9723
2	Plug, Straight	.141" (3.6mm) RG-402 (M17/130)	Gold	Solder	Plugable	ARF1185-ND	5.62	97.75	340.00	901-9808
3	Plug, Straight	.085" (2.2mm) RG-405 (M17/133)	Gold	Solder	Plugable	ARF1186-ND	6.90	115.00	344.00	901-9805-HP
4	Plug, Straight	55, 58, 141, 142, 223	Gold	Crimp	Solder	ARF1187-ND*	52.10	906.00	3150.99	901-103
4	Plug, Straight	174, 316	Gold	Clamp	Solder	ARF1188-ND*	37.60	654.00	2275.00	901-128-11
5	Plug, Straight	55B, 142B, 223, 400	Gold	Crimp	Solder	ARF1189-ND	7.90	137.50	478.00	901-9511-1
5	Plug, Straight	55B, 142B, 223, 400	Passivated	Crimp	Solder	ARF1190-ND	7.11	123.75	430.00	901-9511-1SF
5	Plug, Straight	174, 178, 187, 188, 316	Gold	Crimp	Solder	ARF1191-ND	7.21	125.25	436.00	901-9511-3
5	Plug, Straight	174, 178, 187, 188, 316	Passivated	Crimp	Solder	ARF1192-ND	6.44	112.00	389.00	901-9511-3SF
5	Plug, Straight	Dbl. Braid RG-188, 316	Passivated	Crimp	Solder	ARF1193-ND	7.31	127.00	442.00	901-9511-12SF
6	Plug, Right Angle	55, 141, 142, 223	Gold	Crimp	Solder	ARF1194-ND	11.50	200.00	696.00	901-9531-1
6	Plug, Right Angle	SF 142B, Times AA-2423	Passivated	Crimp	Solder	ARF1195-ND	9.19	159.75	556.00	901-9531-1SF
6	Plug, Right Angle	174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1196-ND	11.56	201.00	700.00	901-9531-3
6	Plug, Right Angle	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1197-ND	8.42	146.25	509.00	901-9531-3SF
6	Plug, Right Angle	Double Braid RG-316	Gold	Crimp	Solder	ARF1198-ND	11.98	208.25	725.00	901-9531-12
6	Plug, Right Angle	Double Braid RG-316	Passivated	Crimp	Solder	ARF1199-ND	8.47	147.50	513.00	901-9531-12SF
7	Jacks	174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1200-ND	51.66	861.00	2579.26	901-9602-3
7	Jacks	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1201-ND	38.49	669.50	2329.00	901-9602-3SF
8	Jacks, Bulkhead	55, 142, 223, 400	Passivated	Crimp	Solder	ARF1202-ND	21.76	378.50	1316.00	901-9610-1SF
8	Jacks, Bulkhead	174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1203-ND	15.88	276.25	961.00	901-9610-3
8	Jacks, Bulkhead	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1204-ND	14.34	249.25	867.00	901-9610-3SF
9	Jacks, Printed Circuit Board, Panel	—	Gold	—	—	ARF1205-ND	8.49	147.75	514.00	901-144
10	Jacks, Printed Circuit Board, Angle	—	Gold	—	—	ARF1206-ND	10.71	186.25	648.00	901-143
11	Adapters, Bulkhead Jack-Jack, Front or Rear Mt.	—	Gold	—	—	ARF1207-ND	13.82	240.25	836.00	901-9209A
11	Adapters, Bulkhead Jack-Jack, Front or Rear Mt.	—	Passivated	—	—	ARF1208-ND	14.64	244.00	731.00	901-9209-ASF

* Safety wire holes.

SMA Brass Coaxial Connectors

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Amphenol Part No.
12	Plug, Straight	.141" (3.6mm) S/R	Gold	Solder	Solder	ARFX1209-ND	3.99	66.50	199.00	901-9868-RFX
12	Plug, Straight	.085" (2.16mm) S/R	Gold	Solder	Solder	ARF1210-ND	3.15	52.50	158.00	901-9867-RFX
13	Plug, Straight	58	Gold	Crimp	Solder	ARF1211-ND	4.97	86.50	301.00	901-9870
13	Plug, Straight	141, 223	Gold	Crimp	Solder	ARF1212-ND	5.23	91.00	316.00	901-9871
13	Plug, Straight	58	NIckel	Crimp	Solder	ARFX1213-ND	3.39	56.50	170.00	901-9876-RFX
14	Plug, Straight	174, 188, 316	Nickel	Crimp	Solder	ARFX1214-ND	3.39	56.50	170.00	901-9877-RFX
14	Plug, Straight	174, 188, 316	Gold	Crimp	Solder	ARF1215-ND	4.93	85.75	298.00	901-9916
15	Plug, Right Angle	174, 188, 316	Gold	Crimp	Solder	ARF1216-ND	8.28	144.00	501.00	901-9872
15	Plug, Right Angle	58	Gold	Crimp	Solder	ARF1217-ND	8.79	153.00	532.00	901-9873
15	Plug, Right Angle	141, 223	Gold	Crimp	Solder	ARF1218-ND	7.43	129.25	449.00	901-9874
15	Plug, Right Angle	58	Nickel	Crimp	Solder	ARFX1219-ND	5.70	95.00	285.00	901-9880-RFX
15	Plug, Right Angle	174, 188, 316	Nickel	Crimp	Solder	ARFX1220-ND	5.46	91.00	280.00	901-9881-RFX
16	Bulkhead Jack	174, 188, 316	Gold	Crimp	Solder	ARF1221-ND	7.43	129.25	449.00	901-9875
16	Bulkhead Jack	174, 188, 316	Nickel	Crimp	Solder	ARFX1222-ND	7.59	126.50	413.00	901-9879-RFX
17	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1223-ND	5.58	93.00	279.00	901-9893-RFX
18	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1224-ND	7.83	130.50	391.00	901-9891-RFX
19	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1225-ND	5.79	96.50	337.75	901-9892-RFX
20	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1226-ND	8.37	139.50	418.00	901-9887-RFX
21	Bulkhead Recep. Front Mt.	—	Nickel	—	—	ARFX1227-ND	4.80	80.00	240.00	901-9889-RFX
22	Bulkhead Recep. Rear Mt.	—	Nickel	—	—	ARFX1228-ND	4.80	80.00	240.00	901-9890-RFX
23	Plug Straight PCB Recep.	—	Gold	—	—	ARFX1229-ND	4.47	74.50	223.00	901-9895-RFX
24	Plug Rt. Angle PCB Recep.	—	Gold	—	—	ARFX1230-ND	8.31	138.50	415.00	901-9894-RFX
25	Receptacle,Straight PCB	—	Gold	—	—	ARFX1231-ND	3.58	62.25	217.00	901-144-8RFX
26	Recep., Right Angle PCB	—	Gold	—	—	ARFX1232-ND	5.52	96.00	334.00	901-143-6RFX

SMB Coaxial Connectors

Fig.	Description	Cable Group RG/U	Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Amphenol Part No.
27	Plug, Straight	RG-174, 179, 187,188, 316	Nickel	Crimp	Solder	ARF1233-ND	5.56	96.75	337.00	903-370P-51S
28	Plug, Right Angle	RG-174, 179, 187,188, 316	Nickel	Crimp	Solder	ARF1235-ND	3.43	59.50	207.00	903-367P-51A2
28	Plug, Right Angle	RG-178, 196	Gold	Crimp	Solder	ARF1236-ND	4.91	110.50	384.00	903-291P-51A1
28	Plug, Right Angle	RG-178, 196	Nickel	Crimp	Solder	ARF1237-ND	3.82	77.25	268.00	903-368P-51A1
29	Bulkhead Jack	RG-174,188A, 316	Gold	Crimp	Solder	ARF1238-ND	6.04	105.00	365.00	903-505J-51S
29	Bulkhead Jack	Dbl. Shield 316	Gold	Crimp	Solder	ARF1239-ND	6.04	105.00	365.00	903-505J-51S1

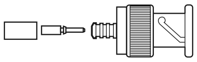
Fig.	Description	Plating	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Amphenol Part No.
30	Bulkhead, Recept. Front Mount Solder Cup Terminal	Gold	ARF1240-ND	5.21	90.50	315.00	903-406J-51R
31	Bulkhead, Recept. Front Mount Blunt Post Terminal	Gold	ARF1241-ND	4.28	74.50	259.00	903-402J-51R
32	Bulkhead Jack, Recept. Recessed, Solder Cup Term.	Gold	ARF1242-ND	12.06	209.75	729.00	903-407J-51R
33	Jack Right Angle	Tin Lead (Body & Legs) Gold (Interface & Term.)	ARF1243-ND	5.92	103.00	358.00	903-373J-51A
34	Jack Straight	Gold	ARF1244-ND	3.54	61.75	214.00	903-499J-51P2

Amphenol® RF

RF & RFX Connectors

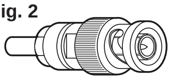
BNC Coaxial Connectors

Fig. 1



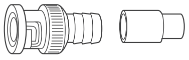
MIL-Crimp 3 Piece

Fig. 2



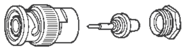
Original Crimp

Fig. 3



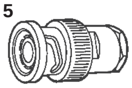
Single Crimp 2 Piece

Fig. 4



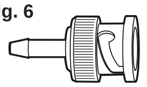
Quick Trim

Fig. 5



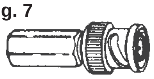
MIL-Clamp

Fig. 6



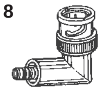
FCP

Fig. 7



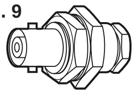
Suretwist®

Fig. 8



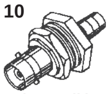
Angle Plug

Fig. 9



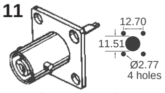
MIL-Clamp Jack

Fig. 10



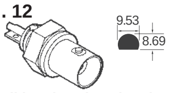
MIL-Crimp Bulkhead Jack

Fig. 11



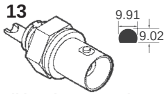
Panel Receptacle

Fig. 12



Bulkhead Jack Isolated

Fig. 13



Bulkhead Receptacle

Fig. 14

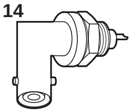


Fig. 15

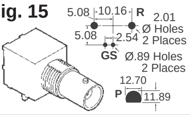


Fig. 16

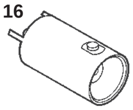


Fig. 17

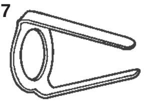


Fig. 18

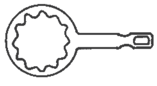


Fig. 19

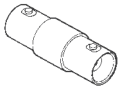


Fig. 20

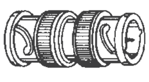


Fig. 21

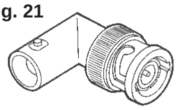


Fig. 22

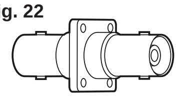


Fig. 23

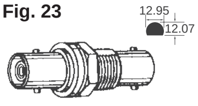


Fig. 24

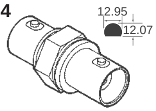


Fig. 25

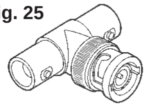


Fig. 26

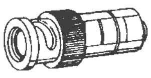
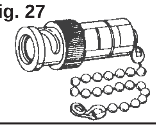


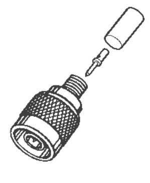
Fig. 27



* RFX connectors. RFX™ is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

Fig.	Description	Cable Group RG/U	Crimp Tool Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
1	Plug (MIL-Crimp)	58, 141, 142	CTL-1	ARF1039-ND	6.80	77.25	268.00	31-320
	Plug (MIL-Crimp)	58, 141, 142	CTL-1	ARFX1039-ND*	1.65	27.50	99.00	31-320-RFX
	Plug (Quick-Crimp)	Plenum 58	CTL-1	ARFX1041-ND*	2.17	24.50	85.00	36650-3RFX
	Plug (MIL-Crimp)	59, 62	CTL-1	ARF1042-ND	6.95	79.00	274.00	31-321
	Plug (MIL-Crimp)	59, 62	CTL-1	ARFX1042-ND*	1.65	27.50	99.00	31-321-RFX
	Plug (MIL-Crimp)	59, 62, 71, 140, 210, 302	CTL-1	ARF1156-ND	6.34	72.00	250.00	68175
	Plug (MIL-Crimp)	Belden 9259	CTL-1	ARF1052-ND	6.44	73.00	253.00	68175-1003
	Plug (MIL-Crimp)	59 (20AWG Ctr. Cond.)	CTL-1	ARF1046-ND	6.98	79.25	275.00	68175-1005
	Plug (MIL-Crimp)	59 (20AWG Ctr. Cond.)	CTL-1	ARFX1046-ND*	2.26	25.75	89.00	68175-5RFX
	Plug (MIL-Crimp)	Plenum 59, 62	CTL-1	ARFX1047-ND*	2.62	29.75	103.00	68175-11RFX
	Plug (MIL-Crimp)	174, 188, 316	CTL-2	ARF1049-ND	7.29	82.75	287.00	31-315
	Plug (MIL-Crimp)	174, 188, 316	CTL-2	ARFX1049-ND*	2.10	35.00	104.00	31-315-RFX
	Plug (MIL-Crimp)	179, 187	CTL-2	ARF1050-ND	9.27	105.25	365.00	31-242
	Plug (MIL-Crimp)	Belden 8281	CTL-2	ARF1051-ND	7.93	90.00	312.00	31-321-1000
	Plug (MIL-Crimp)	Belden 8281	CTL-2	ARFX1051-ND*	2.78	32.50	113.00	31-321-10RFX
	Plug (MIL-Crimp)	Belden 9907, 89907	CTL-1	ARF1054-ND	6.44	73.00	253.00	31-320-1006
	Plug (MIL-Crimp)	59, 62	CTL-1	ARFX1123-ND*	1.65	27.50	82.50	31-71008-RFX
	Plug (MIL-Crimp), 75Ω	59, 62	CTL-1	ARF1175-ND	5.00	56.75	197.00	31-71008
	Plug (MIL-Crimp), 75Ω	59, 62 (20 GACC)	CTL-1	ARF1176-ND	5.28	60.00	208.00	31-71008-1000
	Plug (MIL-Crimp), 75Ω	179, 187	CTL-2	ARF1174-ND	6.31	71.75	248.00	31-71013
	Plug (MIL-Crimp), 75Ω	Belden 8218	CTL-2	ARF1173-ND	5.15	58.50	203.00	31-71033
	Plug (MIL-Crimp), 75Ω	Belden 8281, 88281	CTL-2	ARF1172-ND	5.46	62.00	215.00	31-71032
	Plug (Thinnet/Ethernet)	58	CTL-1	ARF1181-ND	3.20	36.50	126.00	31-5800
	Plug (IBM/Arcnet)	59, 62	CTL-1	ARF1182-ND	3.32	38.50	133.00	31-5900
2	Plug (Original Crimp)	174, 179, 187, 188, 316	—	ARF1143-ND	21.45	213.75	743.00	31-371
3	Plug (Single Crimp)	59, 62	CTL-2	ARFX1124-ND*	2.96	43.75	114.00	31-5556-RFX
4	Plug (Quicktrim®)	59, 62	CTL-1	ARF1045-ND	11.10	162.25	591.00	31-4541
	Plug (Quicktrim®)	59, 62	CTL-1	ARFX1045-ND*	6.06	66.00	229.00	31-4541-RFX
5	Plug (MIL-Clamp)	58	—	ARF1040-ND	5.83	69.75	241.00	31-202
	Plug (MIL-Clamp)	59, 62	—	ARF1043-ND	5.61	81.50	282.00	31-212
	Plug (MIL-Clamp)	59, 62	—	ARFX1043-ND*	2.16	36.00	106.00	31-212-RFX
	Plug (Standard Clamp)	8, 9, 87A, 214, 313, 225	—	ARF1155-ND	17.96	249.75	865.00	6775
	Plug (Standard Clamp)	55, 58, 141, 142, 223, 400	—	ARF1126-ND	6.31	82.00	284.00	31-2
	Plug (Standard Clamp)	55, 58, 141, 142, 223, 400	—	ARFX1119-ND*	2.25	37.50	112.50	31-2-RFX
	Plug (Standard Clamp)	59, 62, 71, 140, 210, 302	—	ARF1123-ND	12.78	145.25	503.00	31-12
	Plug (MIL-Clamp)	174, 179, 187, 188, 316	—	ARF1157-ND	10.49	119.25	413.00	69475
	Plug (Standard Clamp)	178, 196	—	ARF1120-ND	10.40	118.25	409.00	15875
6	Plug (FCP)	58, 141	—	ARF1145-ND	7.96	90.50	313.00	31-4700
	Plug (FCP)	59	—	ARF1146-ND	7.59	111.25	385.00	31-4702
7	Plug (Suretwist®)	59, 62	—	ARF1044-ND	7.59	86.25	299.00	31-5136
	Plug (Suretwist®)	59, 62	—	ARFX1044-ND*	2.04	38.25	138.00	31-5136-RFX
	Plug (Suretwist®)	58, 58A, 58C, 141, 303 LMR 195, Belden 7806A	—	ARF1147-ND	9.12	103.50	359.00	31-5137
	Plug (Suretwist®)	58, 141, 142	—	ARFX1147-ND*	3.00	44.39	103.50	31-5137-RFX
	Plug (Suretwist®)	Plenum 59, 62	—	ARF1048-ND	8.88	148.00	473.60	31-5369
8	Angle Plug (MIL-Crimp)	58, 141, 142A	CTL-1	ARF1055-ND	32.15	365.25	1265.00	31-335
	Angle Plug (MIL-Crimp)	58, 141, 142A	CTL-1	ARFX1055-ND*	5.37	89.50	268.50	31-335-RFX
	Angle Plug (MIL-Crimp)	59, 62	CTL-1	ARF1056-ND	26.38	299.75	1038.00	31-336
9	Bulkhead Jack (Clamp)	55, 58, 141, 142, 223, 400	—	ARF1127-ND	10.64	121.00	419.00	31-206
10	Bulkhead Jack (MIL-Crimp)	55, 58, 141, 142, 223, 400	CTL-1	ARF1060-ND	8.61	173.25	600.00	31-342
	Bulkhead Jack (MIL-Crimp)	55, 58, 141, 142, 223, 400	CTL-1	ARFX1060-ND*	4.15	45.00	157.50	31-342-RFX
	Bulkhead Jack (MIL-Crimp)	59, 62, 140, 210	CTL-1	ARFX1061-ND*	4.50	75.00	262.50	31-343-RFX
	Bulkhead Jack (MIL-Crimp)	174, 188, 316	CTL-2	ARF1139-ND	13.85	157.25	545.00	31-318
	Bulkhead Jack (MIL-Crimp)	174, 188, 316	CTL-2	ARFX1139-ND*	4.17	69.50	243.00	31-318-RFX
11	Panel Receptacle (Solder)	—	UG-290A	ARF1062-ND	9.06	103.00	356.00	31-203
	Panel Receptacle (Solder)	—	—	ARFX1062-ND*	3.54	59.00	178.00	31-203-RFX
12	Bulkhead Recept. Isolated (Solder)	—	—	ARF1063-ND	6.74	76.50	265.00	31-10
	Bulkhead Recept. Isolated (Solder)	—	—	ARFX1063-ND*	2.67	44.50	133.50	31-10-RFX
	Bulkhead Isolated Recept.	—	—	ARF1121-ND	9.73	110.50	383.00	31-10-75
13	Bulkhead Recept. Pressurized	—	UG-625B	ARF1134-ND	3.81	43.25	150.00	31-236
	Bulkhead Recept.	—	UG-1094/U	ARF1064-ND	3.23	36.75	127.00	31-221
	Bulkhead Recept. (Solder)	—	—	ARFX1064-ND*	3.12	22.75	81.51	31-221-RFX
	Bulkhead Recept.	—	UG-1094A	ARF1131-ND	4.18	47.50	164.00	31-2221
	Bulkhead Recept.	—	—	ARF1149-ND	9.18	104.25	361.00	31-70018
	Bulkhead Recept. Pressurized	—	UG-657	ARF1122-ND	8.11	103.50	359.00	31-102
	Bulkhead Recept. Pressurized	—	UG-912	ARF1136-ND	31.84	361.75	1253.00	31-238
14	Angle Bulkhead Recept.	—	UG-1098	ARF1130-ND	60.27	684.75	2370.99	31-222
15	Rt. Angle Bulkhead Recept.	—	—	ARF1065-ND	7.11	80.75	280.00	31-5431
	Rt. Ang. Bulkhead Recept. w/Hardware	—	—	ARF1065NW-ND	7.58	96.75	336.00	31-5431-2010
	Rt. Angle Bulkhead Recept.	75Ω	—	ARF1177-ND	6.13	69.75	241.00	31-71047-1010
	Rt. Angle Bulkhead Recept.	50Ω	—	ARF1178-ND	6.13	69.75	241.00	31-5640-1010
	Rt. Angle Bulkhead Recept. Metal	75Ω	—	ARF1179-ND	6.13	69.75	241.00	31-71043-1010
	Rt. Angle Bulkhead Recept. Low Profile	50Ω	—	ARF1180-ND	7.05	80.00	277.00	31-5486-1010
16	Receptacle Vertical PC	—	—	ARF1066-ND	8.05	91.50	317.00	31-5329
17	Shield Grounding Lug	—	—	ARF1067-ND	.76	8.50	30.00	31-759
18	Grounding Lug	—	—	ARF1068-ND	.74	8.25	28.00	31-10152-RFX
19	Straight/Jack-Jack	—	UG-914/U	ARF1069-ND	6.74	76.50	265.00	31-219
	Straight/Jack-Jack	—	—	ARFX1069-ND*	4.68	43.25	163.02	31-219-RFX
	Straight/Jack-Jack	75Ω	—	ARF1150-ND	7.50	85.25	295.00	31-70019
20	Straight/Plug-Plug	—	UG-491A/U	ARF1070-ND	12.08	150.75	522.00	31-218
	Straight/Plug-Plug	—	—	ARFX1070-ND*	3.27	54.50	164.59	31-218-RFX
21	Angle/Jack-Plug	—	UG-306/U	ARF1071-ND	16.74	190.25	659.00	31-9
	Angle/Jack-Plug	—	—	ARFX1071-ND*	5.64	70.25	245.00	31-9-RFX
	Angle/Jack-Plug	—	UG-306A	ARF1128-ND	18.27	207.50	719.00	31-209
22	Panel/Jack-Jack	—	UG-414	ARF1154-ND	36.57	454.25	1573.00	47000
23	Bulkhead/Jack-Jack, Gasketed	50Ω	—	ARFX1130-ND*	5.03	58.25	202.00	31-220G-RFX
	Bulkhead/Jack-Jack (Sealed)	50Ω	UG-492A	ARF1129-ND	11.68	132.75	460.00	31-220H
	Bulkhead/Jack-Jack, Non-Gasketed	50Ω	—	ARF1072-ND	10.80	122.75	425.00	31-220N
	Bulkhead/Jack-Jack	—	—	ARFX1072-ND*	4.61	52.00	180.00	31-220N-RFX
	Bulkhead/Jack-Jack (Sealed)	—	UG-492D	ARF1140-ND	14.98	170.25	589.00	31-3220
	Bulkhead/Jack-Jack, Gasketed	75Ω	—	ARF1151-ND	25.38	288.25	998.00	31-70020
24	Bulkhead/Jack-Jack (Ins.)	—	—	ARF1073-ND	16.26	184.75	640.00	31-4803
25	Tee/Jack-Plug-Jack	—	UG-274	ARF1152-ND	16.63	180.25	650.00	31-8
	Tee/Jack-Plug-Jack	50Ω	UG-274A/U	ARF1074-ND	13.21	150.00	520.00	31-208
	Tee/Jack-Plug-Jack	50Ω	—	ARFX1074-ND*	4.41	73.50	216.42	31-208-RFX
26	Res. Cap, 50 Ohm	—	—	ARF1075-ND	19.37	220.00	762.00	46650-51
	Res. Cap, 50 Ohm	—	—	ARFX1075-ND*	3.17	36.00	125.00	46650-51-RFX
	Res. Cap, 75 Ohm	—	—	ARFX1076-ND*	2.46	41.00	145.00	46650-75-RFX
	Res. Cap, 93 Ohm	—	—	ARFX1077-ND*	2.79	46.50	139.50	46650-93-RFX
27	Res. Cap & Chain, 50 Ohm	—	—	ARF1078-ND	21.01	238.75	827.00	35650-51
	Res. Cap & Chain, 75 Ohm	—	—	ARF1079-ND	21.01	238.75	827.00	35650-75

Fig. 1



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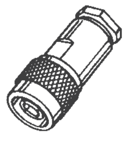

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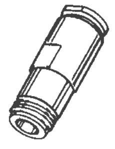

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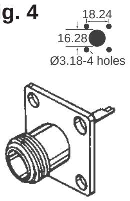

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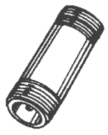

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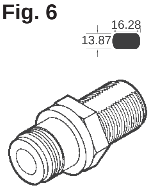

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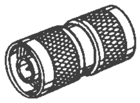

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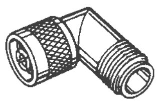

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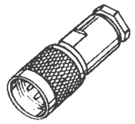

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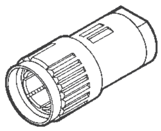

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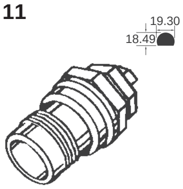

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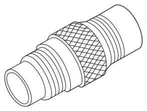

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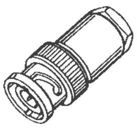

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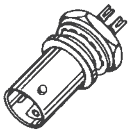

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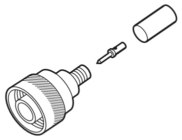

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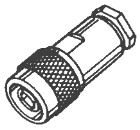

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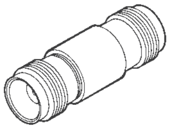


Type N Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
1	Plug (Crimp)‡	8, 213	M39012/10B-0007	ARF1013-ND	12.78	144.50	512.00	82-340
1	Plug (Crimp)	9, 214	—	ARF1163-ND	13.69	155.00	549.00	82-332
1	Plug (Crimp)	55, 142, 223	—	ARF1164-ND	9.97	112.75	400.00	82-5370
1	Plug (Crimp)‡	214, 225, 393	M39012/01-0501	ARF1018-ND	14.61	172.25	610.00	82-4425
1	Plug (Crimp)‡	Ethernet	—	ARF1019-ND	20.79	346.50	1039.50	82-4426-1001
2	Plug (Clamp)	8, 9, 144, 165, 213, 214. 216. 225	UG-21D/U	ARF1014-ND	11.86	134.25	475.00	82-202
2	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-1185	ARF1161-ND	11.86	134.25	475.00	82-312
2	Plug (Clamp)	58, 141, 142	UG-536B/U	ARF1016-ND	10.25	172.25	610.00	34025
2	Plug (Clamp)	58, 141, 142	UG-536B	ARFX1016-ND*	7.18	77.75	283.50	34025-RFX
2	Plug (Clamp)	Belden 9913	—	ARF1020-ND	11.25	127.25	451.00	82-202-1006
2	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-21D	ARFX1183-ND*	5.85	72.50	280.80	82-202-RFX
3	Jack (Clamp)	8, 9, 87A, 144, 165,	UG-23B/U	ARF1021-ND	14.91	168.75	598.00	82-63
4	Panel Receptacle	—	UG-58A/U	ARF1023-ND	11.83	146.75	519.00	82-97
4	Panel Receptacle	—	UG-58A	ARFX1023-ND*	4.86	72.00	266.00	82-97-RFX
4	Panel Receptacle	—	UG-58	ARF1160-ND	11.99	135.50	480.00	82-24
5	Straight/Jack-Jack	—	UG-29B/U	ARF1025-ND	17.29	195.50	693.00	82-101
5	Straight/Jack-Jack	—	UG-29B	ARFX1025-ND*	7.22	87.50	238.50	82-101-RFX
6	Bulkhead/Jack-Jack	—	UG-30/U	ARF1026-ND	29.98	339.25	1201.00	82-66
7	Straight/Plug-Plug	—	UG-57B/U	ARF1027-ND	15.28	172.75	612.00	82-100
7	Straight/Plug-Plug	—	UG-57B	ARFX1027-ND*	7.35	122.50	367.50	82-100-RFX
8	Angle/Jack-Plug	—	UG-27A	ARF1028-ND	32.60	368.75	1306.00	82-64

* RFX connectors.
‡ Crimp tools are listed within the RF & RFX Connectors section.

Twinaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
9	Plug (Clamp)	Times AA-6026, AA-6076, AA-6079	—	ARF1031-ND	14.43	260.15	852.47	82-5589
9	Plug (Clamp)		—	ARFX1031-ND*	13.57	198.82	756.00	82-5589-RFX1
10	Plug (Clamp) Plastic Body	Belden 8227, 9207, IBM 7362211	—	ARF1033-ND	15.88	226.20	822.55	82-GB635-CR
11	Receptacle	—	—	ARFX1035-ND*	10.76	116.50	405.00	82-5590-RFX
12	Adapter/Jack-Jack	IBM 7362230	—	ARF1036-ND	33.92	375.07	1304.54	82-5588
12	Adapter/Jack-Jack			ARFX1036-ND*	7.76	86.50	325.50	82-5588-RFX
13	BNC Plug/Twinax - Noryl	108A	—	ARF1037-ND	13.39	151.50	536.00	31-224
13	BNC Plug/Twinax - TFE	108A	—	ARF1133-ND	22.20	251.25	890.00	31-2226
14	BNC Bulkhead/Twinax - Noryl	—	—	ARF1038-ND	25.22	285.25	1011.00	31-223
14	BNC Bulkhead/Twinax - TFE	—	—	ARF1132-ND	22.23	251.50	891.00	31-2225

* RFX connectors

TNC Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
15	Plug (Quick Crimp)‡	—	—	ARF1081-ND	7.11	80.75	280.00	36825
15	Plug (MIL-Crimp)	142, 223	—	ARF1135-ND	6.89	78.25	271.00	31-2373
15	Plug (Crimp)‡	59, 62	M23329/4-05	ARF1084-ND	6.77	77.00	266.00	31-2368
16	Plug (Clamp)	58, 141	—	ARF1082-ND	17.30	294.10	1003.40	79875
16	Plug (Clamp)	58, 141, 142A	—	ARFX1082-ND*	2.40	40.00	120.00	79875-RFX
17	Straight/Jack-Jack	—	—	ARF1090-ND	23.43	390.50	1264.75	31-4791

‡ Crimp tools are listed within the RF & RFX Connectors section.

*RFX™, is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

RF & RFX Connectors

Fig. 1

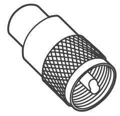


Fig. 2

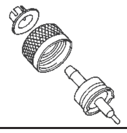


Fig. 3

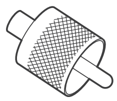
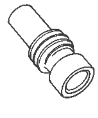


Fig. 4



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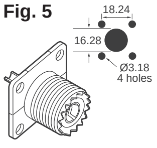

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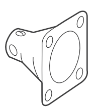
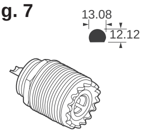


Fig. 7



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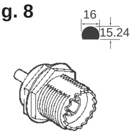


Fig. 9

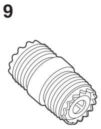
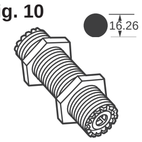


Fig. 10



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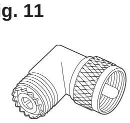

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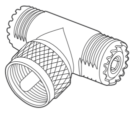

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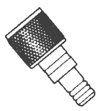

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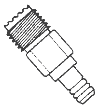

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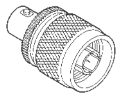

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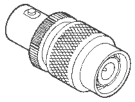

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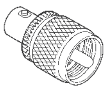

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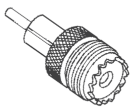

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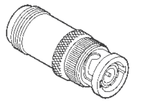

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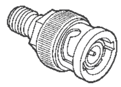

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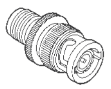

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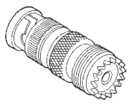


Fig. 23

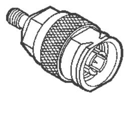


Fig. 24

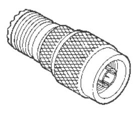


Fig. 25

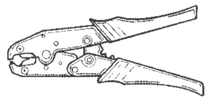
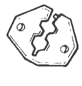


Fig. 26



UHF Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Amphenol Part No.
1	Plug	8, 9, 87A, 214, 313, 225	PL-259/U	ARF1000-ND	4.73	41.75	131.00	83-1SP-1050
1	Plug	8, 9, 87A, 214, 313, 225	—	ARFX1000-ND	2.71	30.75	109.00	83-1SP-15RFX
1	Plug (TFE Insul.)	8, 9, 87A, 214, 313, 225	PL-259	ARF1001-ND	3.96	71.50	235.00	83-822
1	Plug (UG Standard)	59, 62, 140, 210	—	ARF1166-ND	10.85	131.54	339.76	83-750
2	Plug	58, 58A, 58C, 141, 303	—	ARF1002-ND	11.13	131.85	445.36	83-58FCP
2	Plug (Crimp)	58, 141, 142	—	ARFX1002-ND*	3.69	41.75	148.00	83-58FCP-RFX
3	Plug (Crimp)	58, 58A, 58C, 141, 303	—	ARF1165-ND	8.10	88.56	327.00	83-58SP
4	Reducing Adapter	55, 58, 141, 142	UG-175/U	ARF1003-ND	1.15	12.92	46.50	83-185
4	Reducing Adapter	58, 141, 142	UG-175	ARFX1003-ND*	.51	8.50	25.50	83-185-RFX
4	Reducing Adapter	59, 62, 71, 140, 210	UG-176/U	ARF1004-ND	4.74	60.80	217.60	83-168
4	Reducing Adapter	59, 62, 71, 140, 210	UG-176	ARFX1004-ND*	.67	7.50	27.00	83-168-RFX
5	Panel Receptacle	—	SO-239/U	ARF1005-ND	3.51	47.25	175.50	83-1R
5	Panel Receptacle	—	SO-239	ARFX1005-ND*	3.72	62.00	186.00	83-1R-RFX
5	Panel Mount (TFE Insul.)	—	SO-239/A	ARF1168-ND	6.96	75.75	273.00	83-798
6	Panel Mount Hood	58, 141	UG-177	ARF1167-ND	4.21	43.75	146.00	83-765
7	Bulkhead Receptacle	—	—	ARF1006-ND	12.09	143.50	552.45	83-875-1002
8	Bulkhead Receptacle	—	—	ARF1007-ND	4.60	49.85	187.20	83-878
8	Bulkhead Receptacle	—	—	ARFX1007-ND*	3.48	58.00	172.46	83-878-RFX
9	Straight/Jack-Jack	—	PL-258/U	ARF1008-ND	7.22	90.27	288.05	83-1J
10	Bulkhead/Jack-Jack	—	UG-363/U	ARF1009-ND	17.49	291.50	874.50	83-1F
11	Angle/Jack-Plug	—	UG-646/U	ARF1010-ND	13.40	180.60	565.79	83-1AP
12	Tee/Jack-Plug-Jack	—	M-358	ARF1011-ND	16.03	187.57	727.87	83-1T

* RFX connectors. RFX™, is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX ™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

Mini UHF Connectors

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Amphenol Part No.
13	Plug (Crimp)•	58, 58A, 58C, 141, 303	ARF1092-ND	2.25	37.50	141.00	81-115N-1000
14	Jack (Crimp)•	58, 58A, 58C, 141, 303	ARF1093-ND	3.30	55.00	165.00	81-116

• Crimp tools are listed below.

Between Series Adapters

Fig.	Description	Military Part No.	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Amphenol Part No.
15	BNC Jack to N Plug	UG-201A/U	ARF1096-ND	15.29	168.00	598.00	31-216
15	BNC Jack to N Plug	UG-201A/U	ARFX1096-ND*	11.88	181.81	596.44	31-216-RFX
16	BNC Jack to TNC Plug	—	ARF1098-ND	39.88	438.50	1559.00	79675
17	BNC Jack to UHF Plug	UG-273/U	ARF1099-ND	20.10	289.98	1005.00	31-28
17	BNC Jack to UHF Plug	UG-273/U	ARFX1099-ND*	17.07	260.75	858.00	31-28-RFX
18	UHF Jack to RCA Plug	—	ARF1101-ND	8.95	192.43	608.60	83-10
19	BNC Plug to N Jack	UG-349A/U	ARF1102-ND	18.78	222.29	874.50	31-217
19	BNC Plug to N Jack	UG-349A/U	ARFX1102-ND*	20.37	230.50	859.30	31-217-RFX
20	BNC Plug to SMA Jack	—	ARF1103-ND	74.36	817.50	2905.99	901-165
21	BNC Plug to TNC Jack	—	ARF1104-ND	42.95	472.25	1679.00	79025
22	BNC Plug to UHF Jack	UG-255/U	ARF1105-ND	20.52	288.02	1026.00	2900
23	N Plug to SMA Jack	—	ARF1106-ND	100.67	1106.75	3935.00	901-294
24	N Plug to UHF Jack	UG-146/U	ARF1107-ND	22.04	263.00	935.00	4400

* RFX adapters.

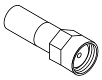
ECONOHEX™ Crimp Tools and Dies

Fig.	Description	Digi-Key Part No.	Price Each	Amphenol Part No.
	CTL Series Crimp Tools			
25	Crimp Tool – RG 58, 59, 62, Plenum 59, 62	ARF1116-ND†	49.21	CTL-1
25	Crimp Tool – RG 174, Belden 8281	ARF1117-ND†	49.21	CTL-2
25	Crimp Tool – RG 58, 8, 213	ARF1118-ND†	49.21	CTL-3
25	Crimp Tool – Belden 8227, IBM 7362211	ARF1119-ND†	49.21	CTL-4
25	Crimp Tool – RG 55, 58, 59, 62, 140, 141, 142, 210, 223, 303, 400, Plenum 59, 62	ARF1183-ND†	49.21	CTL-5
	Crimp Tool and Dies			
25	Tool Handle without Dies	ARF1108-ND	84.56	227-987
26	Crimp Die Set – Twin AX	ARF1110-ND	65.46	227-1417
26	Crimp Die Set – BNC, TNC	ARF1111-ND	51.02	227-1418
26	Crimp Die Set – “N” Type	ARF1113-ND	51.02	227-1420

† CTL Series crimp tools are sold complete as a tool handle with die set included.

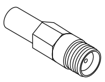
RF Connectors

Fig. 1



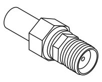
SMA Plug

Fig. 2



SMA Jack

Fig. 3



SMA Bulkhead Jack

Fig. 4

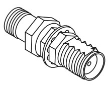


Fig. 5

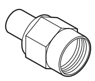


Fig. 6

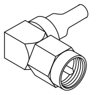


Fig. 7

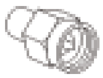


Fig. 8

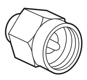
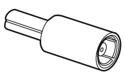
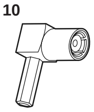


Fig. 9



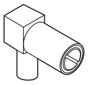
MIL-Type

Fig. 10



MIL-Type

Fig. 11



Zinc Die Cast

Fig. 12

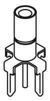


Fig. 13

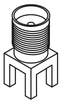


Fig. 14

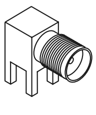


Fig. 15

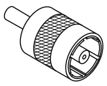


Fig. 16

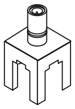


Fig. 17

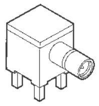


Fig. 18

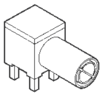
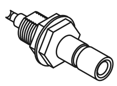


Fig. 19



Front mount shown

Fig. 20

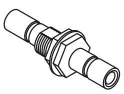


Fig. 21

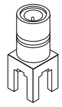
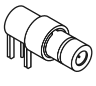


Fig. 22



SMA Crimp Connectors

A9966-ND Hand Crimp Tool, w/o Dies **$702.45**

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.	Die Set	Price Each	Locator Plug*	Price Each
1	Plug, Hex Crimp, Brass, Ni Plated	142, 142A, 142B	A4010-ND	4.18	3.60	447647-2	—	—	—	—
	Plug, Hex Crimp, Brass, Ni Plated	174, 174A, 188, 188A, 316	A4011-ND	4.10	3.53	447647-3	—	—	—	—
	Plug, Hex Crimp, Brass, Ni Plated	Belden YR20621	A24676-ND	4.10	3.53	1-447647-1	—	—	—	—
2	Jack, Hex Crimp	142	A4006-ND	11.70	10.07	447648-2	—	—	—	—
	Jack, Hex Crimp	174, 188, 316	A4007-ND	5.38	4.63	447648-3	—	—	—	—
3	Bulkhead Jack, Crimp	142	A4008-ND	15.75	13.55	447650-2	—	—	—	—
	Bulkhead Jack, Crimp	174, 188, 316	A4009-ND	9.10	7.83	447650-3	—	—	—	—
5	Plug, with Center Contact	405 Semi-Rigid	A4012-ND	7.88	5.20	227868-1	A9964-ND	214.76	A9961-ND	60.03
	Plug, with Center Contact	405 Semi-Rigid	A4013-ND	13.75	11.83	228639-1	A9964-ND	214.76	A9961-ND	60.03
	Short Plug, with Center Contact	405 Semi-Rigid	A24680-ND	10.18	8.76	221447-1	—	—	—	—
6	Right Angle Plug, w/ Center Contact	405 Semi-Rigid	A24681-ND	36.88	31.72	228583-1	A9964-ND	214.76	A9961-ND	60.03
7	Solderless Plug, w/ Center Contact	402 (.141)	A4014-ND	11.43	9.83	227743-1	A9965-ND	446.22	A9961-ND	60.03
	Solderless Plug, w/ Center Contact	402 (.141)	A4015-ND	11.25	9.68	228634-1	A9965-ND	446.22	A9961-ND	60.03
	Solderless Plug, w/o Center Contact	402 (.141)	A4017-ND	3.00	2.58	228635-1	A9965-ND	446.22	A9962-ND	85.98
8	Plug, Retractable Collar	402 (.141)	A4018-ND	3.83	3.29	227531-5	A9963-ND	427.50	A9962-ND	85.98

***** Must use a locator with die set.

SMA Crimp Connectors for Flexible Cables

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Plug, Stainless Steel, Passivated, Length: .950”	174, 188, 188A, 316	A24683-ND‡	13.45	11.57	225532-4
	Plug, Brass, Nickel, Length: 1.188”	17,16	A24684-ND‡	11.85	10.20	221117-2
	Plug, Stainless Steel, Passivated	179, 179A, 179B, 161, 187, 187B, Belden 9221	A24685-ND‡	14.23	12.24	225532-8
	Plug, Stainless Steel, Passivated	58, 58A, 58B, 58C	A24686-ND‡	14.80	12.73	225532-1
	Plug, Stainless Steel, Passivated	223, 55, 55A, 55B	A24687-ND‡	15.43	13.27	1-225532-0
	Plug, Stainless Steel, Passivated	142, 142A, 142B, 400, Belden 84142	A24688-ND‡	14.08	12.11	225532-3
3	Bulkhead Jack, Stainless Steel, Passivated	174, 188, 188A, 316	A24689-ND	30.90	26.58	225608-4
4	Bulkhead Jack Adapter (Jack-Jack)	—	A24690-ND	19.48	16.75	221643-1

‡ Mil Type

SMA PC Board Connectors

Fig.	Description	Body Finish and Plating	Digi-Key Part No.	Price Each 1	25	AMP Part No.
13	Vertical Jack	Brass and Gold	A24691-ND	7.30	6.28	221789-1
14	Right Angle Jack	Stainless Steel and Gold	A24692-ND	15.98	13.74	221790-1

SMB Connectors

Center Contact: Gold

Fig.	Description	Style	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
50 Ohm							
9	Plug, Gold	Mil Type	178, 178A, 178B, 196, 196A	A4020-ND††	9.18	7.90	413985-5
	Plug, Nickel			A4021-ND††	5.25	4.52	413985-6
	Plug, Gold	Mil Type	174, 316, 188, 188A	A4026-ND††	6.25	5.38	413985-1
	Plug, Nickel			A4027-ND††	5.48	4.71	413985-3
	Plug, Gold	Mil Type	179, 179A, 179B, 161, 187, 187A, Belden 9221	A4031-ND††	8.43	7.25	1-413985-0
	Plug, Nickel			A4032-ND††	5.00	4.30	1-413985-1
	Plug, Gold	Mil Type	RD 316. 188 Double Braid	A4034-ND††	8.43	7.25	413985-2
	Plug, Nickel			A4035-ND††	5.00	4.30	413985-4
10	Plug, Right Angle, Nickel	Mil Type	178, 178A, 178B, 196, 196A	A4023-ND††	6.65	5.72	414002-8
11	Plug, Right Angle, Gold	Zinc		A4024-ND††	4.48	3.85	414363-8
	Plug, Right Angle, Nickel			A4025-ND††	4.33	3.72	414363-9
10	Plug, Right Angle, Gold	Mil Type	174, 316, 188, 188A, 179, 179A, 179B, 161, 187, 187A, Belden 9221	A4028-ND††	10.40	9.28	414002-1
	Plug, Right Angle, Nickel			A4029-ND††	6.95	5.98	414002-3
11	Plug, Right Angle, Gold	Zinc		A4030-ND††	4.25	3.66	414363-3
	Plug, Right Angle, Nickel			A4033-ND††	4.13	3.55	414363-5
10	Plug, Right Angle, Gold	Mil Type	RD 316, 188 Double Braid	A4036-ND††	7.90	6.80	414002-2
	Plug, Right Angle, Nickel			A4037-ND††	6.33	5.44	414002-4
11	Plug, Right Angle, Gold	Zinc	RD 316, 188 Double Braid	A4038-ND††	4.24	3.80	414363-4
	Plug, Right Angle, Nickel			A4039-ND††	4.13	3.55	414363-6
12	Jack, Vertical, Nickel	Comm.	—	A24693-ND	2.82	2.43	221111-1
16	Jack, Vertical, Gold	Mil Type	—	A4041-ND	4.33	3.72	413990-1
	Jack, Vertical, Nickel			A4042-ND	3.48	2.99	413990-2
17	Jack, Right Angle, Low Profile, Gold	Mil Type	—	A4043-ND	8.50	7.31	413996-2
	Jack, Right-Angle with Standoff Pads, Gold			A24694-ND	6.15	5.29	414026-2
	Jack, Right Angle with Standoff Pads, Nickel			A4044-ND	4.93	4.24	414026-3
	Jack, Right Angle, Nickel/Tin-Lead/Zinc Die Cast	Zinc		A4045-ND	4.60	3.96	414337-1
18	Plug, Right Angle, Gold, Nickel/Tin-Lead, Zinc Die Cast	Zinc	—	A4046-ND	6.03	5.19	414338-1
19	Receptacle, Solder Pot, Front Mount, Nickel	Mil Type		A24695-ND	5.30	4.56	228216-1
	Receptacle, Solder Pot, Rear Mount, Nickel			A24696-ND	5.30	4.56	228215-1
20	Bulkhead Jack Adapter (Jack-Jack), Nickel	Mil Type	—	A24697-ND	7.10	6.11	228553-1
75 Ohm							
10	Plug, Right Angle, Gold	Comm.	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24704-ND†	17.38	14.95	414048-6
15	Plug, Nickel	Comm.	179, 179A, 179B, 161, 187, 187A, Belden 9221	A4040-ND†	9.18	7.90	414618-2
21	PC Board Jack, Vertical, Gold	Mil Type	—	A4047-ND	5.93	5.10	414244-1
	PC Board Jack, Vertical, Tin-Lead			A4050-ND	4.75	4.09	414244-4
22	Jack, Right Angle, Front: Nickel, Rear: Tin-Lead	Comm.	—	A24698-ND	6.48	5.57	221014-1
Tools							
	Crimp Tool, 50 Ohm, Hex/Comm. with Die Set		174, 316, 188, 179, 161, 187, RD 316, 188 Double Braid	A9808-ND	134.25	—	58500-1
	Crimp Tool, 50 Ohm, Hex/Comm. with Die Set		178, 196, 174, 316, 179, 161, 187,188	A9810-ND	780.00	—	58046-1
	Pro Crimper II Hand Tool w/o Die, Use with A9968 and A9809		—	A9996-ND	66.00	—	354940-1
	Die Set, Hex/Comm, use with A9996		174, 179, 187	A9809-ND	73.50	—	58489-1
	Die Set, Mil Type Crimp, use with A9996		—	A9968-ND	60.75	—	58483-1

†† Uses A9996-ND PRO-CRIMPER and A9968-ND Die † Uses A9996-ND PRO-CRIMPER and A9809-ND Die

Fig. 1

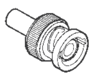


Fig. 2

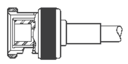


Fig. 3

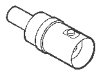
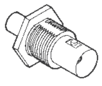


Fig. 4



BNC Coaxial Connectors Dual Crimp

MIL-C-39012 Class II - Cat. B

Fig.	Descrip-tion	Center Contact	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	CERTI-CRIMP Hand Tool	Die for Pro-Crimper
1	Plug	Gold	Nickel	TEFLON	174, 188, 188A, 316	A24422-ND	2.82	2.43	225395-7	A24569-ND	—
		Gold	Nickel	Polyethylene	174, 188, 188A, 316	A24423-ND	1.62	1.40	1-227079-6	A24774-ND	A24780-ND
		Tin Lead	Nickel	Polyethylene	174, 188, 188A, 316	A24424-ND	1.46	1.26	1-227079-4	A24774-ND	A24780-ND
		Gold	Silver	TEFLON	174, 188, 188A, 316	A24425-ND	4.88	4.20	2-331350-4	A24569-ND	—
		Gold	Nickel	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24426-ND	2.78	2.40	225395-8	A24774-ND	—
		Tin Lead	Nickel	Polyethylene	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24427-ND	1.62	1.40	2-227079-0	A24774-ND	A24780-ND
		Gold	Nickel	Polyethylene	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24428-ND	1.62	1.40	2-227079-2	A24774-ND	A24780-ND
		Gold	Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24429-ND	8.38	7.21	2-331350-5	—	—
		Gold	Nickel	Polyethylene	RD 316, 188, Double Braid	A24430-ND	1.62	1.40	8-227079-2	A24782-ND	A24779-ND
		Gold	Nickel	TEFLON	Belden 9252, 122	A24431-ND	3.58	3.08	5-225395-7	—	—
		Gold	Nickel	TEFLON	180, 180A, 180B, 195, 195A	A24432-ND	2.82	2.43	225395-9	—	—
		Tin Lead	Nickel	Polyethylene	180, 180A, 180B, 195, 195A	A24433-ND	1.62	1.40	3-227079-7	A24782-ND	A24779-ND
		Gold	Silver	TEFLON	180, 180A, 180B, 195, 195A	A24434-ND	8.85	7.62	2-331350-6	—	—
		Gold	Nickel	Polyethylene	Belden 9907, RG-141	A24435-ND	1.62	1.40	6-227079-7	A24572-ND	A24570-ND
		Gold	Nickel	Polyethylene	Belden 89907	A24436-ND	1.62	1.40	6-227079-8	A24572-ND	A24781-ND
		Gold	Nickel	TEFLON	Belden 8218	A24437-ND	2.82	2.43	1-225395-0	—	—
		Gold	Nickel	Polyethylene	Belden 8218	A24438-ND	1.62	1.40	1-227079-9	A24782-ND	A24779-ND
		Tin Lead	Nickel	Polyethylene	Belden 8218	A24439-ND	1.62	1.40	1-227079-7	A24782-ND	A24779-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A1100-ND	3.66	3.28	225395-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1101-ND	3.62	3.24	225395-2	A24573-ND	A24776-ND
2	Plug	Tin Lead	Nickel	Polyethylene	58, 58A, 58B, 58C	A1117-ND	2.11	1.89	227079-1	A24572-ND	A24778-ND
		Gold	Nickel	Polyethylene	58, 58A, 58B, 58C	A1119-ND	2.10	1.89	227079-5	A24572-ND	A24770-ND
		Silver	Nickel	Polyethylene	58, 58A, 58B, 58C	A1118-ND	1.90	1.71	227079-9	A24572-ND	A24770-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24440-ND	5.83	5.01	2-331350-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	141, 141A, 303	A24441-ND	2.82	2.43	225395-5	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A24442-ND	1.62	1.40	4-227079-3	A24572-ND	A24570-ND
		Gold	Nickel	TEFLON	Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A24443-ND	3.58	3.08	4-225395-2	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	223, 55, 55A, 55B	A24444-ND	2.82	2.43	225395-3	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	223, 55, 55A, 55B	A24445-ND	1.46	1.26	227079-6	A24572-ND	A24570-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A24446-ND	2.82	2.43	225395-6	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	142, 142A, 142B, 400	A24447-ND	2.35	2.03	6-227079-1	A24572-ND	A24570-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A24448-ND	4.70	4.05	2-331350-9	A24571-ND	A24777-ND
		Tin Lead	Nickel	Polyethylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1120-ND	2.10	1.89	227079-3	—	A24775-ND
		Gold	Nickel	Polyethylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1122-ND	2.10	1.89	227079-7	—	A24570-ND
		Silver	Nickel	Polyethylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1121-ND	2.10	1.89	1-227079-1	—	A24570-ND
		Gold	Silver	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24449-ND	4.60	3.96	331350	A24573-ND	—
		Gold	Nickel	TEFLON	302, Belden 88241, 89269, Hi-Temp 62A Times PL62, Berk-Tek, BTDC-59, BTDC-62	A24450-ND	3.58	3.08	4-225395-1	A24573-ND	A24776-ND
		Gold	Nickel	Polyethylene	302, Belden 88241, 89269, Hi-Temp 62A Times PL62, Berk-Tek, BTDC-59, BTDC-62	A24451-ND	1.62	1.40	4-227079-9	A24573-ND	A24570-ND
		Gold	Nickel	Polyethylene	Hi-Temp 59, Times PL59, PLF59, (20 AWG C.C.)	A24452-ND	1.62	1.40	5-227079-3	—	A24776-ND
		Gold	Nickel	TEFLON	Belden 9104, 9240, 9112, 9167, 9259, 9266, Times FM-59	A24453-ND	2.81	2.42	2-225395-0	A24573-ND	A24776-ND
		Gold	Nickel	Polyethylene	Belden 9104, 9240, 9112, 9167, 9259, 9266, Times FM-59	A24454-ND	1.46	1.26	1-227079-3	—	A24776-ND
		Gold	Nickel	Polyethylene	Belden 9248, 9114	A24455-ND	1.62	1.40	3-227079-0	—	A24776-ND
		Gold	Nickel	Polyethylene	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A24456-ND	1.62	1.40	5-227079-8	—	A24631-ND
		Gold	Silver	TEFLON	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A24457-ND	5.63	4.84	4-331350-0	—	A24631-ND
		Gold	Nickel	TEFLON	8, 8A, 213	A24458-ND	12.78	10.99	2-225395-1	A24574-ND	—
3	Cable Jack	Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A1102-ND	5.28	4.54	225396-1	A24571-ND	—
	Jack	Gold	Nickel	TEFLON	174, 188, 188A, 316	A24459-ND	5.35	4.61	225396-7	A24569-ND	—
		Gold	Nickel	Polypropylene	174, 188, 188A, 316	A24460-ND	2.88	2.48	228979-7	A24774-ND	—
		Gold	Nickel	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24461-ND	5.35	4.61	225396-8	A24569-ND	—
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24462-ND	6.58	5.66	2-331351-1	A24571-ND	—
		Gold	Nickel	Polypropylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24463-ND	2.88	2.48	228979-6	—	A24570-ND
		Gold	Nickel	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1103-ND	5.28	4.54	225396-2	A24573-ND	A24776-ND
		Gold	Silver	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24464-ND	9.03	7.77	331351	A24573-ND	—
4	Bulkhead Jack	Gold	Nickel	TEFLON	174, 188, 188A, 316	A24465-ND	3.83	3.29	225398-7	A24569-ND	—
		Gold	Nickel	Polypropylene	174, 188, 188A, 316	A24466-ND	3.63	3.12	228980-7	A24774-ND	—
		Gold	Silver	TEFLON	174, 188, 188A, 316	A24467-ND	7.23	6.22	1-331693-2	A24569-ND	—
		Gold	Nickel	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24468-ND	3.83	3.29	225398-8	A24569-ND	—
		Gold	Nickel	TEFLON	Times RD316	A24469-ND	3.83	3.29	1-225398-5	—	—
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A1111-ND	4.97	4.47	225398-1	A24571-ND	—
		Gold	Nickel	Polypropylene	58, 58A, 58B, 58C	A24470-ND	3.65	3.14	228980-5	A24572-ND	A24570-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24471-ND	10.33	8.88	1-331693-1	A24571-ND	—
		Gold	Nickel	TEFLON	223, 55, 55A, 55B	A24472-ND	3.83	3.29	225398-3	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A24473-ND	3.83	3.29	225398-6	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1112-ND	4.97	4.47	225398-2	A24573-ND	A24776-ND
	Right Angle Plug	Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24474-ND	20.13	17.31	225973-1	A24571-ND	—
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A24475-ND	20.85	17.94	225974-1	A24571-ND	—
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A24476-ND	20.85	17.94	225974-2	A24571-ND	—
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A24477-ND	20.13	17.31	225973-4	A24571-ND	—
		Gold	Nickel	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24478-ND	20.85	17.94	225974-5	A24573-ND	—
Panel Insulation Bushings for Bulkhead Jacks (2 required)						A24479-ND	.48	.41	330620	—	—
BNC Premises Wire Kit						A9822-ND	154.50	—	58477-1	—	—

RF Connectors

Fig. 1

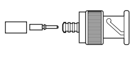


Fig. 2

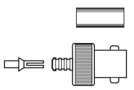


Fig. 3

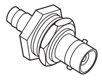


Fig. 4

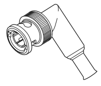
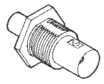


Fig. 5



BNC Hex Crimp Connectors 50 Ohm

Collar and outer contacts - nickel plated. Center Contact: Gold (except A24400: Silver) MIL-G-45204

Fig.	Description	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Die for Pro-Crimper	Price Each
1	Plug	Nickel	Polymethylpentene	174, 188, 188A, 316	A1166-ND	2.53	2.27	2-221128-1	A9995-ND	42.00
		Nickel	Polymethylpentene	179, 179A, 179B, 161, 187, Belden 9221	A1167-ND	2.54	2.28	2-221128-3	A9995-ND	42.00
		Nickel	Polymethylpentene	180, 180A, 180B, 195, 195A	A1168-ND	2.54	2.28	2-221128-5	A9995-ND	42.00
		Nickel	Polymethylpentene	Belden 9907, 89907, Comm/Scope 2104	A1169-ND	2.54	2.28	2-221128-7	A9994-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, Berk-Tek, BTDC-58, Comm/Scope 2135	A1164-ND	2.54	2.28	1-221128-0	A9994-ND	42.00
		Nickel	Polymethylpentene	140, 210, 62, 62A, 62B, 59, 59A, 59B, 302, Belden 9291, 9209, 9269, 89269, 88241, Hi-Temp, 62A,Times PL-62, Berk-Tek BTDC-59, BTDC-62, 124	A1165-ND	2.54	2.28	1-221128-1	A9994-ND	42.00
		Nickel	Polypropylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Beldon 9291, 9209, 9269,	A24400-ND	1.95	1.69	1-221128-4	A9994-ND	42.00
		Nickel	Polyethylene	188, 316 Double Braid	A1172-ND	2.28	2.05	2-221128-9	A9995-ND	42.00
		Nickel	Polypropylene	Belden 9104, 9240, 9112, 9167, 9259, 9266, Times FM-59	A1171-ND	2.54	2.28	1-221128-7	A9994-ND	42.00
		Nickel	Polypropylene	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A1170-ND	2.54	2.28	1-221128-2	A9960-ND	42.00
2	Cable Jack	Nickel	Polymethylpentene	174, 188, 188A, 316	A1803-ND	3.15	2.71	413779-3	A9995-ND	42.00
		Nickel	Polymethylpentene	179, 179A, 197B, 161, 187, 187A, Belden 9221	A1804-ND	4.30	3.70	413779-4	A9995-ND	42.00
		Nickel	Polymethylpentene	180, 180A, 180B, 195, 195A	A1805-ND	3.13	2.69	413779-5	A9995-ND	42.00
		Nickel	Polymethylpentene	Belden 89907, 9907, Comm/Scope 3104, 2104	A1806-ND	3.13	2.69	413779-6	A9994-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A1801-ND	4.93	4.24	413779-1	A9994-ND	42.00
		Nickel	Polymethylpentene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1802-ND	3.13	2.69	413779-2	A9994-ND	42.00
3	Bulkhead Jack	Nickel	Polymethylpentene	174, 188, 188A, 316	A1813-ND	4.00	3.44	413771-3	A9995-ND	42.00
		Nickel	Polymethylpentene	179, 179A, 179B, 161, 187, 187A, Belden 9221	A1814-ND	5.35	4.61	413771-4	A9995-ND	42.00
		Nickel	Polymethylpentene	180, 180A, 180B, 195, 195A	A1815-ND	3.95	3.40	413771-5	A9995-ND	42.00
		Nickel	Polymethylpentene	Belden 89907, 9907, Comm/Scope 3104, 2104	A1816-ND	3.95	3.40	413771-6	A9995-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, BerkTek BTDC-58, Comm/Scope 2135	A1811-ND	4.80	4.13	413771-1	A9994-ND	42.00
		Nickel	Polymethylpentene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1812-ND	3.95	3.40	413771-2	A9994-ND	42.00
4	Plug, Right Angle	Nickel	Polymethylpentene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1182-ND	10.65	9.16	413959-2	A9994-ND	42.00
		Nickel	Polymethylpentene	174, 188, 188A, 316	A1183-ND	10.65	9.16	413959-3	A9995-ND	42.00
		Nickel	Polymethylpentene	179, 179A, 179B, 161, 187, 187A, Belden 9221	A1184-ND	10.65	9.16	413959-4	A9995-ND	42.00
		Nickel	Polymethylpentene	180, 180A, 180B, 195, 195A	A1185-ND	10.65	9.16	413959-5	A9995-ND	42.00
		Nickel	Polymethylpentene	Belden 89907, 9907, Comm/Scope 3104, 2104	A1186-ND	10.65	9.16	413959-6	A9994-ND	42.00
		Nickel	Polymethylpentene	188, 174, 316 Double Braid	A1187-ND	10.48	9.01	413959-7	A9995-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C	A1181-ND	9.50	6.31	413959-1	A9994-ND	42.00

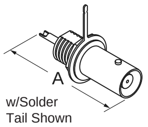
BNC Single Crimp Connectors 50 Ohm

Center Contact: Gold, MIL Type

Fig.	Description	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	CERTI-CRIMP Hand Tool	Price Each
1	Plug	Silver	TEFLON	178, 178A, 178B, 196, 196A	A24401-ND	10.65	9.16	330876	—	—
		Nickel	Polypropylene	174, 188, 188A, 316	A24402-ND	9.63	8.28	225527-9	—	—
		Silver	Polypropylene	174, 188, 188A, 316	A24403-ND	15.40	13.25	2-330058-1	—	—
		Silver	TEFLON	174, 188, 188A, 316	A24404-ND	10.63	9.14	2-330061-1	—	—
		Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24405-ND	10.60	9.12	2-329446-1	—	—
		Silver	Polypropylene	58, 58A, 58B, 58C	A24406-ND	8.20	7.06	2-329082-1	—	—
		Silver	TEFLON	58, 58A, 58B, 58C	A24407-ND	9.65	8.30	2-329444-1	—	—
		Silver	TEFLON	58, 58A, 58B, 58C	A24408-ND	14.98	12.88	330884	—	—
		Silver	TEFLON	223, 55, 55A, 55B	A24409-ND	9.65	8.30	2-329444-2	—	—
		Silver	TEFLON	142, 142A, 142B, 400	A24410-ND	9.65	8.30	2-330358-2	A24772-ND	1222.13
		Silver	Polypropylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24411-ND	8.20	7.06	2-329083-1	—	—
		Silver	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24412-ND	9.65	8.30	2-329445-1	—	—
2	Jack	Nickel	TEFLON	174, 188, 188A, 316	A24413-ND	14.68	12.63	2-330062-1	—	—
		Nickel	TEFLON	58, 58A, 58B, 58C	A24414-ND	12.38	10.65	2-329545-1	—	—
		Silver	TEFLON	223, 55, 55A, 55B	A24415-ND	15.60	13.42	2-329452-2	—	—
4	Plug, Right Angle	Silver	TEFLON	58, 58A, 58B, 58C	A24420-ND	26.03	22.39	331175	—	—
5	Bulkhead Jack	Silver	Polypropylene	174, 188, 188A, 316	A24416-ND	11.33	9.74	2-330060-1	—	—
		Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24417-ND	18.78	16.15	2-329458-1	—	—
		Silver	TEFLON	58, 58A, 58B, 58C	A24418-ND	16.35	14.07	2-329456-1	—	—

Bulkhead Solder Jacks Connectors 50 Ohm

Fig. 1



w/Solder Tail Shown

Fig. 2

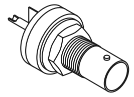


Fig. 3

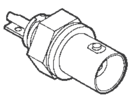
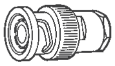


Fig.	Description	Dielectric	Dimension A	Contact Material	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	w/o Solder Terminal*	VALOX	1.060 (26.93)	Silver	Nickel	A24520-ND	2.23	1.92	227754-3
	with Solder Terminal**	VALOX	1.060 (26.93)	Silver	Nickel	A24521-ND	2.18	1.88	227755-3
	with Solder Terminal**	VALOX	1.312 (33.33)	Gold	Nickel	A24522-ND	1.80	1.55	227169-7
	w/o Solder Terminal*	VALOX	1.060 (26.93)	Gold	Nickel	A24523-ND	1.55	1.34	227754-2
	with Solder Terminal**	VALOX	1.060 (26.93)	Gold	Nickel	A24524-ND	1.60	1.38	227755-2
	with Solder Terminal**	TEFLON	1.312 (33.33)	Gold	Nickel	A24525-ND	2.50	2.15	227169-8
	w/o Solder Terminal*	TEFLON	1.060 (26.93)	Gold	Nickel	A24526-ND	2.45	2.11	227715-3
	with Solder Terminal**	TEFLON	1.060 (26.93)	Gold	Nickel	A24527-ND	2.75	2.37	227716-3
2	Sealed	Polymethylpentene	—	Gold	Nickel	A24528-ND	6.45	5.55	227426-1
3	Isolated	VALOX, White	—	Tin	Nickel	A24529-ND	2.50	2.15	227726-1
	Isolated	VALOX, White	—	Silver	Nickel	A24530-ND	2.50	2.15	227726-2
	Isolated	VALOX, White	—	Gold	Nickel	A24531-ND	2.21	1.91	227726-3

* Includes lockwasher and jam nut. ** Includes solder terminal and jam nut.

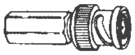
BNC Field Serviceable Plug Connectors 50 Ohm

Center Contact: Gold



Body Plating	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Silver	58, 58A, 58B, 58C, 141, 141A, 303, 222, 55, 55A, 55B, 142, 142A, 142B, 400	A24480-ND	16.78	14.43	221265-1
Nickel	58, 58A, 58B, 58C, 141, 141A, 303, 222, 55, 55A, 55B, 142, 142A, 142B, 400	A24481-ND	11.05	9.51	1-221265-0
	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269, 89269, 88241 Hi-Temp 62A, Times PL-62, Berk-Tek, BTDC-59, BTDC-62, 302, 71, 71A, 71B	A24482-ND	10.93	9.40	1-221265-1

BNC Twist-On Connectors 50 Ohm

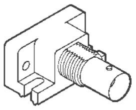


Center Contact: Gold. Body Plating: Nickel

Description	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Plug	Polymethylpentene	59, 59A, 59B	A24483-ND	3.33	2.86	414265-3
Jack	Acetal	59, 59A, 59B	A24484-ND	5.48	4.71	222428-1

AMP tyco Electronics
Authorized Distributor

RF Connectors

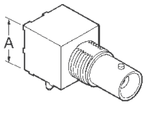


Right Angle

PC Board/Panel Mount Jack Connectors w/Mounting Flanges 50 Ohm

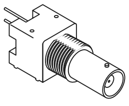
Description	Center Contact	Mount. Height In. (mm)	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Right Angle	Tin	.625 (15.88)	VALOX, White	A1123-ND	4.90	4.22	226978-1
Right Angle	Gold	.625 (15.88)	VALOX, White	A24511-ND	4.90	4.22	226978-3
Vertical	Gold	1.375 (34.93)	VALOX, White	A24540-ND	5.53	4.76	226987-7

PC Board/Panel Mount Right Angle Jack Connectors
50 Ohm



Description	Center Contact	Mount. Height A- in. (mm)	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
W/O Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, White	A24485-ND	2.49	2.15	226990-1
W/Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, White	A24486-ND	1.83	1.58	227161-1
W/O Mounting Posts	Gold	.625 (15.88)	VALOX, White	A24487-ND	2.13	1.84	226990-3
W/Mounting Posts	Gold	.625 (15.88)	VALOX, White	A24488-ND	1.83	1.58	227161-3
W/ Mounting Posts	Gold	.519 (13.18)	VALOX, White	A24489-ND	1.83	1.58	227161-7
W/O Mounting Posts	Tin-Lead	.519 (13.18)	VALOX, White	A24490-ND	2.14	1.84	226990-7
W/O Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, Black	A24491-ND	2.14	1.84	226990-2
W/Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, Black	A24492-ND	1.83	1.58	227161-2
W/O Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A24493-ND	2.13	1.84	226990-6
W/Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A24494-ND	1.83	1.58	227161-6
W/Mounting Posts	Gold	.519 (13.18)	VALOX, Black	A24495-ND	1.83	1.58	227161-9
W/O Mounting Posts	Tin-Lead	.625 (15.88)	Metal	A24496-ND	4.90	4.22	227433-1
W/Mounting Posts	Tin-Lead	.625 (15.88)	Metal	A24497-ND	2.48	2.14	227661-1
W/O Mounting Posts	Gold	.625 (15.88)	Metal	A24498-ND	2.54	2.19	227676-1
W/Mounting Posts	Gold	.625 (15.88)	Metal	A24499-ND	2.48	2.14	227677-1
W/Mounting Posts	Gold	.500 (12.70)	Metal	A24500-ND	4.40	3.79	413879-1

PC Board/Panel Mount Vertical Jack Connectors
50 Ohm



Description	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Without Mounting Posts	Tin-Lead	VALOX, White	A24501-ND	4.78	4.11	226993-1
With Mounting Posts	Tin-Lead	VALOX, White	A24502-ND	1.83	1.58	227222-1
Without Mounting Posts	Gold	VALOX, White	A24503-ND	4.90	4.22	226993-3
With Mounting Posts	Gold	VALOX, White	A24504-ND	1.83	1.58	227222-3
Without Mounting Posts	Tin-Lead	VALOX, Black	A24505-ND	4.90	4.22	226993-2
With Mounting Posts	Tin-Lead	VALOX, Black	A24506-ND	2.40	2.07	227222-2
Without Mounting Posts	Gold	VALOX, Black	A24507-ND	4.90	4.22	226993-6
With Mounting Posts	Gold	VALOX, Black	A24508-ND	2.40	2.07	227222-6
With Mounting Posts	Tin-Lead	Metal	A24509-ND	2.35	2.03	227671-1
With Mounting Posts	Gold	Metal	A24510-ND	2.11	1.82	227673-1

Jack Accessories 50 and 75 Ohm

Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Insulating Bushing for Mounting Jacks, Nylon	A24532-ND	.33	.28	222163-1
Insulating Bushing for Bulkhead Solder Jacks	A24533-ND	.20	.18	227223-1
Screw for panel thickness of 3/32 (2.38) or greater	A24534-ND	.28	.24	221108-2
Screw for panel thickness of less than 3/32 (2.38)	A24535-ND	.28	.24	221108-4
Lockwasher	A1129-ND	.21	.19	1-329632-2
Hex Nut	A1128-ND	.22	.20	1-329631-2

Vertical Metallized PC Board Mount Jack Connectors 50 Ohm

Fig. 1

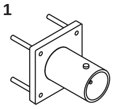


Fig. 2

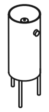


Fig. 3

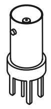
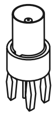


Fig.	Body Plating	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Nickel	Silver	VALOX	A24512-ND	2.97	2.56	227699-1
	Nickel	Gold	VALOX	A24513-ND	2.97	2.56	227699-2
	Nickel	Tin	VALOX	A24514-ND	2.97	2.56	227699-3
2	Nickel	Gold	VALOX	A24515-ND	3.33	2.86	221123-2
3	Nickel	Silver	VALOX	A24516-ND	4.50	3.87	222420-1
	Tin-Lead, Leg Length: .125 (3.18)	Silver	VALOX	A24517-ND	3.58	3.08	414305-1
	Tin-Lead, Leg Length: .175 (4.45)	Silver	VALOX	A24518-ND	4.58	3.94	414305-2

Press-Fit Terminal Jack Connectors 50 Ohm



Body Plating	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Nickel	Gold	TEFLON	A24519-ND	3.78	3.25	222006-1

Right-Angle PC Board Mount Jack Connectors

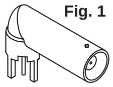


Fig. 1

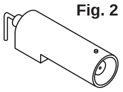
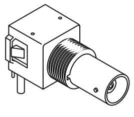


Fig. 2

Fig.	Body Plating	Center Contact Length - In (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Nickel	.171 (4.34)	A24536-ND	4.98	4.28	413631-1
	Tin-Lead	.171 (4.34)	A24537-ND	5.00	4.30	413631-2
	Nickel	.131 (3.33)	A24538-ND	5.55	4.78	413631-3
2	Nickel	—	A24539-ND	2.02	1.74	414373-1

BNC Self-Terminating Jack Connectors 50 Ohm



Built-in chip resistor terminates the signal line to the proper characteristic impedance when in the unmated state.
Body: Polyester, PBT, Black; **Dielectric:** Polyester, PBT, Natural

Description	Center Contact	Digi-Key Part No.	Price Each 1	25	AMP Part No.
PCB, Right Angle, Tin Lead	Gold on mating end and Tin Lead on solder tails	A24634-ND	13.45	11.57	414367-1

BNC Adapters 50 Ohm

Fig.	Description	Body Material and Plating	Center Contact Material and Plating	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Tee, Jack-Plug-Jack	Brass, Nickel	BE CU, Gold (30µ)	A24549-ND	12.85	11.06	221543-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	PH BR, Gold (15µ)	A24550-ND	5.70	4.91	413592-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	BE CU, Gold (30µ)	A24551-ND	5.53	4.76	413592-6
	Tee, Jack-Plug-Jack	Brass, Nickel	BE CU, Silver (200µ)	A24552-ND	19.58	16.84	329518
2	Tee, Jack-Jack-Jack	Brass, Nickel	BE CU, Silver (200µ)	A24553-ND	15.50	13.33	221988-1
3	Right Angle, Jack-Plug	Nickel	Silver	A24554-ND	16.18	13.92	329517
	Right Angle, Jack-Plug	Nickel	Gold	A24555-ND	20.70	17.81	222165-2
4	Bulkhead Jack, Jack-Jack	Nickel	Silver	A24556-ND	14.98	12.88	330024
	Bulkhead Jack, Jack-Jack	Nickel	Gold (50µ)	A24557-ND	5.48	4.71	228226-1
	Bulkhead Jack, Jack-Jack	Nickel	Gold (15µ)	A24558-ND	3.80	3.27	228226-3
5	Jack Covers	Silver	—	A24559-ND	6.08	5.23	330022
6	Feed-Thru, Jack-Jack	Nickel	Silver	A24560-ND	7.33	6.30	221551-1
	Feed-Thru, Jack-Jack	Nickel	Gold	A24561-ND	6.73	5.79	221551-3
	Feed-Thru, Jack-Jack	Nickel	Gold	A24562-ND	3.10	2.67	414414-1

Fig. 1

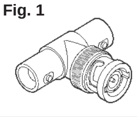


Fig. 2

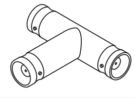


Fig. 3

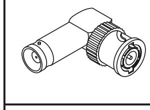


Fig. 4

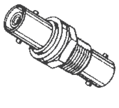


Fig. 5

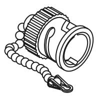
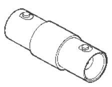


Fig. 6



RF Connectors

Fig. 1

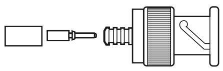


Fig. 2

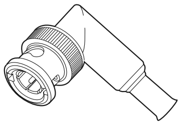


Fig. 3

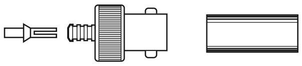
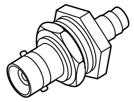


Fig. 4



BNC Dual Crimp Connectors 75 Ohm

Body Plating: Nickel Center contacts: Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.	Dies for Pro-Crimper	Price Each
1	Plug	179, 179A, 179B, 187, 187A, 161, Belden 9221	A24575-ND	2.08	1.79	221185-8	A24630-ND	201.75
	Plug	AT&T 735A	A24576-ND	2.09	1.80	1-221185-8	A24632-ND	148.50
	Plug	Belden 8218	A24577-ND	2.09	1.80	221185-3	A24632-ND	148.50
	Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24587-ND	2.08	1.79	221185-2	A24597-ND	118.50
1	Plug	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A24588-ND	2.09	1.80	221185-9	A24597-ND	118.50
	Plug	Belden 9145, AT&T 734A	A24589-ND	2.09	1.80	1-221185-0	A24597-ND	118.50
	Plug	Belden 9248, 9114	A24590-ND	2.08	1.79	221185-1	A24633-ND	201.75
	Plug	6, 6A	A24591-ND	2.08	1.79	221185-7	A24631-ND	148.50
	Plug	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A24592-ND	2.09	1.80	221185-5	A24631-ND	148.50
2	Right Angle Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24593-ND	10.95	9.42	221402-2	A24597-ND	118.50
3	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A24594-ND	4.68	4.03	221199-5	A24630-ND	201.75
4	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A24595-ND	4.95	4.26	221221-5	A24630-ND	201.75
	Bulkhead Jack	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24596-ND	4.70	4.05	221221-2	A24597-ND	118.50

BNC Hex Crimp Connectors 75 Ohm

Collar and outer contacts - nickel plated Center contacts - gold MIL-G-45204

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.	Dies for Pro-Crimper	Price Each
1	Plug	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1828-ND	3.50	3.01	413589-8	A9993-ND	42.00
	Plug	AT&T 735A	A1820-ND	3.50	3.01	1-413589-0	A9992-ND	42.00
	Plug	AT&T KS 19224 L2	A1824-ND	3.50	3.01	413589-4	—	—
	Plug	Belden 8218	A1823-ND	3.50	3.01	413589-3	—	—
	Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1822-ND	3.50	3.01	413589-2	A9992-ND	42.00
1	Plug	302, Belden 89269, 88241, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-62	A1821-ND	3.50	3.01	413589-1	A9992-ND	42.00
	Plug	59 Double Braid	A1826-ND	4.83	4.15	413589-6	A9993-ND	42.00
	Plug	Belden 8212, 9104, 9112, 9167, 9240, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A1829-ND	3.50	3.01	413589-9	A9992-ND	42.00
	Plug	Belden 9145, AT&T 734A	A1827-ND	3.50	3.01	413589-7	A9992-ND	42.00
	Plug	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A1825-ND	3.50	3.01	413589-5	—	—
2	Plug, Right Angle	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1873-ND	13.78	11.85	413588-8	A9993-ND	42.00
	Plug, Right Angle	AT&T 735A	A1881-ND	13.78	11.85	1-413588-0	—	—
	Plug, Right Angle	AT&T KS 19224 L2	A1876-ND	13.78	11.85	413588-4	A9993-ND	42.00
	Plug, Right Angle	Belden 8218	A1875-ND	14.53	12.50	413588-3	A9992-ND	42.00
	Plug, Right Angle	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1872-ND	13.78	11.85	413588-2	—	—
2	Plug, Right Angle	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A1880-ND	13.78	11.85	413588-9	A9992-ND	42.00
	Plug, Right Angle	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A1877-ND	13.78	11.85	413588-5	—	—
3	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1838-ND	4.53	3.01	413760-8	A9993-ND	42.00
	Jack	AT&T KS 19224 L2	A1834-ND	4.53	3.01	413760-4	A9993-ND	42.00
	Jack	Belden 8218	A1833-ND	4.53	3.01	413760-3	A9992-ND	42.00
	Jack	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1832-ND	2.58	1.71	413760-2	A9992-ND	42.00
	Jack	302, Belden 89269, 88241, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-62	A1831-ND	4.53	3.01	413760-1	A9992-ND	42.00
3	Jack	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A1839-ND	4.53	3.01	413760-9	A9992-ND	42.00
	Jack	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A1835-ND	4.53	3.01	413760-5	—	—
4	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1848-ND	5.33	4.58	413590-8	A9993-ND	42.00
	Bulkhead Jack	AT&T KS 19224 L2	A1844-ND	5.05	4.35	413590-4	A9993-ND	42.00
	Bulkhead Jack	Belden 8218	A1843-ND	6.13	5.27	413590-3	A9992-ND	42.00
	Bulkhead Jack	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1842-ND	5.05	4.35	413590-2	A9992-ND	42.00
4	Bulkhead Jack	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A1849-ND	5.05	4.35	413590-9	A9992-ND	42.00

BNC Bulkhead Jack Connectors 75 Ohm

Center Contact: Gold

Fig. 1

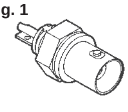


Fig. 2

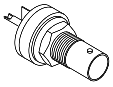


Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Jack, Solder, Nickel	A24598-ND	3.10	2.67	221244-1
2	Jack, Sealed Solder, Nickel	A24599-ND	6.23	5.36	414217-1

BNC PC Board/Panel Mount Jack Connectors

75 Ohm

Fig. 1

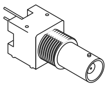


Fig. 2

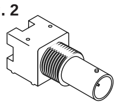


Fig.	Description	Contact Finish	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Vertical, Metal	Gold 30µ	A24604-ND	6.33	5.44	222132-1
2	Right Angle, VALOX, White	Gold 30µ	A24600-ND	5.43	4.67	413194-1
	Right Angle, VALOX, Black	Gold 30µ	A24601-ND	5.43	4.67	413194-2
	Right Angle, VALOX, White	Gold 50µ	A24602-ND	6.40	5.51	414459-1
	Right Angle, VALOX, Metal	Gold 30µ	A24603-ND	4.48	3.85	222092-1

BNC PC Board Mount Jack Connectors

75 Ohm

Center Contact: Gold (except A24607-ND: Silver)

Fig. 1

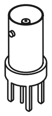


Fig. 2

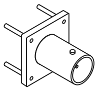


Fig. 3

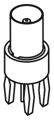


Fig. 4

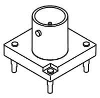


Fig. 5

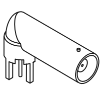


Fig. 6

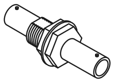
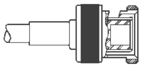


Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Vertical Metallized, Tin-Lead	A24606-ND	3.95	3.40	414394-1
2	Vertical Metallized, Nickel	A24607-ND	4.85	4.18	413986-1
3	Press Fit, Nickel, L (excl. pins): .810	A24608-ND	3.93	3.38	222462-1
	Press Fit, Nickel, L (excl. pins): .640	A24609-ND	5.23	4.50	414088-1
4	Vertical Metallized (PCB: .125 min.)	A24610-ND	7.60	6.54	221336-3
5	Right Angle, Nickel	A24611-ND	5.13	4.41	413558-1
	Right Angle, Tin-Lead	A24612-ND	4.90	4.22	413558-2
6	Bulkhead Jack Adapter, Nickel	A24613-ND	7.70	6.63	222117-1

BNC JIS Hex Crimp Cable Plug Connectors 50 Ohm and 75 Ohm



Body Plating: Nickel Center Contact: Gold

Impedance Ohm	JIS Cable	Digi-Key Part No.	Price Each 1	25	AMP Part No.	CERTI-CRIMP Hand Tool
75	5C-2V	A24541-ND	3.33	2.86	1-413589-2	—
	3C-2V	A24542-ND	3.33	2.86	1-413589-1	A9992-ND
	3C-2W	A24543-ND	3.33	2.86	1-413589-4	A9992-ND
	2.5C-2V	A24544-ND	3.33	2.86	1-413589-6	A9971-ND
	2.5C-2W	A24545-ND	3.33	2.86	1-413589-5	A9992-ND
	1.5C-2V	A24546-ND	3.33	2.86	1-413589-3	A9971-ND
50	3D-2V	A24547-ND	2.02	1.74	3-221128-1	A9972-ND
	1.5D-2V	A24548-ND	2.02	1.74	3-221128-2	—

BNC RF PC Board / Panel Mount Decoupled Jack Connectors

50 Ohm and 75 Ohm

Body Plating: VALOX, Black
Center Contact: Gold

Fig. 1

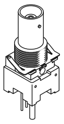


Fig. 2

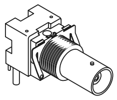
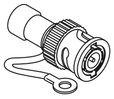


Fig.	Impedance Ohm	Mounting Post Length	Capacity/Voltage	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Vertical				
1	50	.137	9400pF / 1500V	A24615-ND	5.75	4.95	413476-2
			Low Profile, Right Angle				
2	50	.158	9400pF / 1500V	A24618-ND	3.15	2.71	413515-2
	50	.158	20000pF / 500V	A24619-ND	3.15	2.71	413515-3
	50	.110	7900pF / 1600V	A24620-ND	3.15	2.71	413515-7
	50	.185	9400pF / 1500V	A24621-ND	3.15	2.71	413515-8
	50	.110	9400pF / 1500V	A24622-ND	3.15	2.71	413515-9
			Standard, Right Angle				
2	50	.158	9400pF / 1500V	A24624-ND	3.70	3.19	413524-2
	50	.110	9400pF / 1500V	A24625-ND	3.70	3.19	413524-5

Terminator Plugs

50, 75, 93 Ohm



Body Plating: Nickel Center Contact: Gold

Description	Resistor Specification	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Tether	1 Watt, 50 Ohm	A24563-ND	7.13	6.13	221629-1
Without Tether	1 Watt, 50 Ohm	A24564-ND	3.95	3.40	221629-4
With Tether	1 Watt, 75 Ohm	A24565-ND	9.48	8.15	221629-2
Without Tether	1 Watt, 75 Ohm	A24566-ND	8.25	7.10	221629-5
Without Tether	1 Watt, 93 Ohm	A24567-ND	6.33	5.44	221629-6
With Tether	1 Watt, 50 Ohm*	A24568-ND	6.45	5.55	1-221629-6

* Tether is conductive with #4 stud size.

BNC Action Pin / Bulkhead Decoupled Jack Connectors

Body Plating: Nickel
Center Contact: Gold

Fig. 1

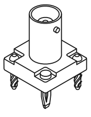


Fig. 2

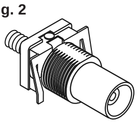


Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Jack, PC Board Action Pin, 50 Ohm	—	A24627-ND	11.93	10.26	414553-1
2	Bulkhead Jack, Hex Crimp	58, 58A, 58B, 58C	A24628-ND	9.23	7.94	414758-1
	Bulkhead Jack, Hex Crimp	174, 174A, 316, 188, 188A	A24629-ND	10.25	8.82	414758-2

Twin BNC and Twin-Ax Jack Connectors

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Plug, Silver*	108, 108A, Belden 9272, 89272	A24705-ND	18.18	15.64	332225
	Plug, Nickel*	108, 108A, Belden 9272, 89272	A24706-ND	16.53	14.22	332225-5
2	Bulkhead Jack, Silver*	108, 108A, Belden 9272, 89272	A24707-ND	24.55	21.12	332342
3	Right-Angle Jack w/Mounting Posts, VALOX, White	—	A24708-ND	7.45	6.41	228686-1
4	Vertical Jack w/Mounting Posts, VALOX, White	—	A24709-ND	12.33	10.60	221198-1
5	Bulkhead Jack Adapter, Nickel (Center Contact: Silver)	—	A24710-ND	22.73	19.55	332215
6	Twin-Ax Bulkhead Solder, Front Mount, Nickel over Zinc	—	A24711-ND	4.00	3.44	228284-1

* Center contact: silver

Fig. 1

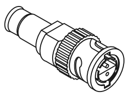


Fig. 2

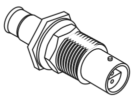


Fig. 3

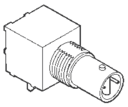


Fig. 4

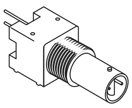


Fig. 5

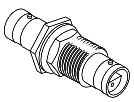
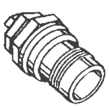


Fig. 6



RF Connectors

Fig. 1 MIL Type

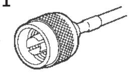


Fig. 2 Commercial Type

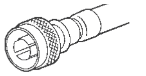


Fig. 3 MIL Type

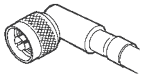


Fig. 4 MIL Type

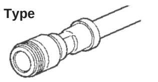


Fig. 5 MIL Type

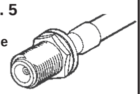


Fig. 6

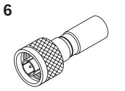


Fig. 7

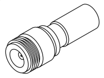


Fig. 8

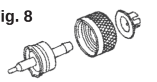


Fig. 9

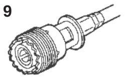


Fig. 10

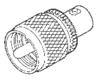


Fig. 11

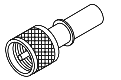


Fig. 12

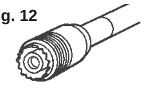


Fig. 13

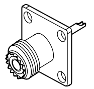


Fig. 14

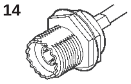


Fig. 15

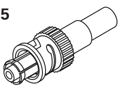


Fig. 16

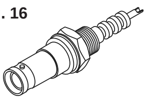


Fig. 17

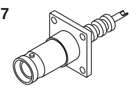


Fig. 18

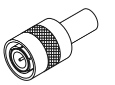


Fig. 19

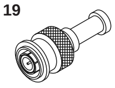


Fig. 20

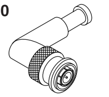


Fig. 21

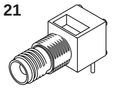


Fig. 22

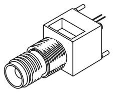


Fig. 23

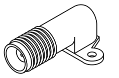


Fig. 24

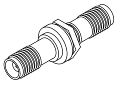


Fig. 25

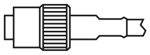


Fig. 26

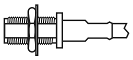
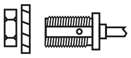


Fig. 27



N Dual Crimp Connectors 50 Ohm

Center contact plating: gold *Uses CERTI-CRIMP: A24574-ND **Uses CERTI-CRIMP: A9975-ND

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Dual Crimp						
1	Plug, Nickel	58, 58A, 58B, 58C	A1147-ND	10.25	8.82	1-225661-2
	Plug, Silver	58, 58A, 58B, 58C	A1148-ND	15.13	13.01	225361-1
1	Plug, Nickel	223, 55, 55A, 55B	A1149-ND	10.25	8.82	1-225661-3
1	Plug, Silver	142, 142A, 142B, 400	A1151-ND	15.18	13.06	225361-4
1	Plug, Nickel	8, 8A, 213	A1152-ND*	10.25	8.82	225661-2
	Plug, Silver	8, 8A, 213	A1153-ND*	16.78	14.43	51692-2
	Plug, Nickel, Weatherproof	8, 8A, 213	A1154-ND*	11.50	9.89	225662-2
1	Plug, Nickel	393	A1156-ND*	11.50	9.89	1-225662-1
	Plug, Silver	393	A1157-ND*	18.85	16.22	1-225092-1
1	Plug, Nickel	9, 9A, 9B, 214	A1158-ND*	10.25	8.82	225661-1
	Plug, Silver	9, 9A, 9B, 214	A1159-ND*	21.95	18.88	51692-1
	Plug, Nickel, Weatherproof	9, 9A, 9B, 214	A1160-ND*	11.50	9.89	225662-1
1	Plug, Nickel, Weatherproof	142, 142A, 142B, 400	A24652-ND	14.30	12.30	225699-1
2	Plug, Nickel	8, 8A, 213	A1162-ND*	7.18	6.18	1-227086-0
3	Right Angle Plug, Nickel	8, 8A, 213	A24654-ND*	27.95	24.04	225699-2
	Right Angle Plug, Silver	8, 8A, 213	A1137-ND*	44.95	38.66	225014-2
	Right Angle Plug, Silver, Weatherproof	8, 8A, 213	A1138-ND*	44.95	38.66	225389-2
3	Right Angle Plug, Nickel	9, 9A, 9B, 214	A1139-ND*	27.95	24.04	225669-1
	Right Angle Plug, Silver	9, 9A, 9B, 214	A1140-ND*	44.95	38.66	225014-3
4	Jack, Nickel, Weatherproof	58, 58A, 58B, 58C	A24655-ND	18.93	16.28	1-225664-2
	Jack, Nickel, Weatherproof	8, 8A, 213	A24656-ND*	18.93	16.28	225664-2
	Jack, Silver	8, 8A, 213	A1142-ND*	30.70	26.41	225093-2
Hex Crimp						
2	Plug, Nickel	115A, Belden 89880, 9880	A24659-ND**	13.70	11.79	414160-3
Semi-Rigid Cable Crimp						
1	Plug, Nickel	402, 141	A24660-ND	32.70	28.13	228440-1
5	Bulkhead Jack, Nickel, Rear Mount	402, 141	A24661-ND	35.03	30.13	228658-1
Terminators						
6	Plug, Nickel	—	A24662-ND	33.58	28.88	227953-1
7	Jack, Nickel	—	A24663-ND	18.13	15.59	227997-1

UHF Connectors

Center contact plating: Tin (except A24672-ND: Gold)

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Standard UHF Connectors						
8	Plug, Single Crimp, Tin Plated	58, 58A, 58B, 58C	A1107-ND	8.55	7.36	226279-1
	Plug, Single Crimp, Tin Plated	59, 59A, 59B	A1106-ND	5.05	4.35	226279-3
9	Jack, Single Crimp, Tin Plated	58, 58A, 58B, 58C	A1132-ND	10.08	8.67	226694-1
10	Adapter, UHF Plug to BNC Jack	—	A1135-ND	26.55	22.84	222320-1
Miniature UHF Connectors						
11	Plug, Dual Crimp, Nickel	58, 58A, 58B, 58C	A24671-ND	1.80	1.55	226600-1
12	Jack, Dual Crimp, Nickel	316	A24672-ND	1.61	1.39	414477-1
	Jack, Crimp. Nickel	58, 58A, 58B, 58C	A1104-ND	4.10	3.68	226602-1
13	Panel Solder Jack, Nickel	—	A1131-ND	3.10	2.67	226601-1
	Panel Solder Jack, Nickel	—	A24673-ND	3.90	3.36	226601-3
14	Bulkhead Jack, Crimp, Nickel	174, 316, 188, 188A	A24674-ND	6.43	5.53	228665-2
	Bulkhead Jack, Crimp, Nickel	58, 58A, 58B, 58C	A1105-ND	3.95	3.40	414045-1

SHV Dual Crimp Connectors

Center contact plating: Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
15	Plug, Nickel	58, 58A, 58B, 58C	A24664-ND	27.75	23.87	51426-4
	Plug, Silver	58, 58A, 58B, 58C	A24665-ND	29.73	25.57	51426-1
15	Plug, Nickel	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24666-ND	27.75	23.87	51426-5
15	Plug, Silver	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24667-ND	29.73	25.57	51426-2
16	Bulkhead Solder Jack, Silver	—	A24668-ND	19.28	16.58	51494-1
	Bulkhead Solder Jack, Nickel	—	A24669-ND	12.20	10.50	51494-2
17	Panel Solder Jack, Nickel	—	A24670-ND	32.30	27.78	51421-2

TNC Hex and Dual Crimp Connectors

50 Ohm

Center Contacts: Gold

Dies for Pro-Crimper: **A:** A9994-ND **B:** A24570-ND **C:** A24574-ND

Certi-Crimp Tool: **D:** A24572-ND

Fig.	Description	Die/ Tool	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Hex Crimp							
18	Plug	—	174, 188, 188A, 316	A24635-ND	4.53	3.90	222506-5
18	Plug	A	58, 58A, 58B, 58C	A24636-ND	3.25	2.80	222506-1
Dual Crimp							
19	Plug	B/D	58, 58A, 58B, 58C, 141, 141A, 303	A24637-ND	2.45	2.11	227000-5
19	Plug, Weatherproof	—	223, 55, 55A, 55B	A24638-ND♦	26.45	22.75	225550-1
19	Plug, Weatherproof	—	142, 142A, 142B, 400	A24639-ND♦	15.55	13.38	225555-6
19	Plug	B	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24640-ND♦	3.65	3.14	227000-7
19	Plug, Weatherproof	C	8, 8A, 213	A24641-ND♦	35.23	30.30	225555-7
19	Plug, Weatherproof	C	Alpha 9847, Belden 8213, 9292	A24642-ND♦	20.10	17.29	1-225550-3
19	Plug, Weatherproof	C	9, 9A, 9B, 214	A24644-ND	20.10	17.29	225550-8
20	Right Angle Plug, Weatherproof	—	58, 58A, 58B, 58c	A24645-ND	34.05	29.29	225559-2
20	Right Angle Plug, Weatherproof	—	142, 142A, 142B, 400	A24646-ND	32.38	27.85	225554-6
20	Right Angle Plug, Weatherproof	C	393, 225	A24647-ND	35.95	30.92	1-225554-1

♦ Mil Type

TNC PC Board / Panel Mount Connectors

50 Ohm

Center Contacts: Gold

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
21	Right Angle Jack, Metal With Mounting Posts	A24648-ND	6.08	5.23	227839-1
22	Vertical Jack, Metal With Mounting Posts	A24649-ND	7.03	6.05	227835-1
23	Right Angle Jack, Nickel	A24650-ND	8.45	7.27	413933-1
24	Bulkhead Jack Adapter, Nickel	A24651-ND	10.03	8.63	221500-1

Miniature Threaded Connectors 50 Ohm

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Tool	Price Each
25	Plug, TEFLON	178, 178A, 178B, 196, 196A	A24699-ND	11.90	10.24	2-330311-2	—	—
	Plug, TEFLON	174, 316, 188, 188A	A24700-ND	11.83	10.17	2-330311-1	A28796-ND	2385.00
	Plug, TEFLON	180, 180A, 180B, 195, 195A	A24701-ND	8.33	7.16	1-330723-0	—	—
26	Jack, TEFLON	180, 180A, 180B, 195, 195A	A24702-ND	14.05	12.09	1-330599-0	—	—
27	Solder Jack Adapter	—	A24703-ND	16.78	14.43	329852	—	—

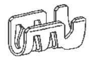
AMP tyco Electronics Authorized Distributor

Hand Tools and Die Sets for RF Connectors

Term.Type (Crimp)	Description	Digi-Key Part No.	Price Each	AMP Part No.
	50 Ohm			
Dual	Pro-Crimper II (BNC)	A24786-ND	66.00	58433-1
—	Pro-Crimper Hand Tool	A9996-ND	66.00	354940-1
—	Crimp Tool, BNC with Die Set	A9802-ND	66.00	58433-2
Hex	Pro-Crimper Die Set	A9995-ND	42.00	58436-3
Hex	Pro-Crimper Die Set	A9994-ND	42.00	58436-1
Hex	Pro-Crimper Die Set	A9960-ND	42.00	58436-2
Dual	Certi-Crimp with Die Set	A24574-ND	849.41	220015-1
Dual	Pro-Crimper Die Set	A24570-ND	45.00	58435-1
Dual	Pro-Crimper Die Set	A24780-ND	148.50	318450-2
Dual	Pro-Crimper Die Set	A24779-ND	201.75	58330-1
Dual	Certi-Crimp with Die Set	A24782-ND	635.00	69477-4
Dual	Pro-Crimper Die Set	A24781-ND	487.50	318452-2
Dual	Pro-Crimper Die Set	A24777-ND	126.00	220189-3
Dual	Pro-Crimper Die Set	A24778-ND	126.00	220189-1
Dual	Pro-Crimper Die Set	A24776-ND	124.50	58537-1
Dual	Pro-Crimper Die Set	A24775-ND	126.00	220189-2
Dual	Certi-Crimp with Die Set	A24772-ND	1222.13	69331-1
Dual	Certi-Crimp with Die Set	A9970-ND *NEW!*	238.50	91904-2
	BNC Pro-Crimper Dies, 75 Ohm			
Hex	BNC Die Set	A9993-ND	42.00	58425-2
Hex	BNC Die Set	A9992-ND	42.00	58425-1
—	Crimp Tool with Die Set	A9803-ND	105.00	58531-2
—	Crimp Tool with Die Set	A9804-ND	105.00	58531-1
—	Crimp Tool with Die Set	A9805-ND	105.00	58531-3
Dual	Die Set	A24597-ND	118.50	58085-1
Dual	Die Set	A24630-ND	201.75	318451-2
Dual	Die Set	A24631-ND	148.50	58538-1
Dual	Die Set	A24632-ND	148.50	58174-1
Dual	Die Set	A24633-ND	201.75	58086-1
	N-Type			
—	Crimp Tool with Die Set	A9807-ND	126.00	58501-1
Hex	Die Set, use with A9996-ND	A9975-ND	56.25	58485-1
	Cable Stripper			
—	Cable Stripping Tool	A1110-ND	131.14	603995-1

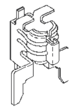
Braid-Pic Contacts and Terminals

Fig. 1 –
Cable Contact



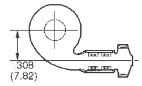
Ohm: 50 or 75

Fig. 2 –
Vertical Receptacle



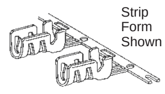
Ohm: 50 or 75

Fig. 3 –
Grounding Terminals



Cable Group RG/U:
58, 58A, 58B, 58C

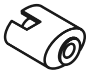
Fig. 4 –
Braid Termination



Cable Group RG/U:
174, 316, 188, 188A, 179, 179A, 179B, 187, 187A

Fig.	Digi-Key Part No.	Loose Pc. Price Each 1	25	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip T & R 4,900	AMP Part No.
1	A24719-ND	1.25	1.01	226286-3	—	—	—	—	—	—
2	A24720-ND	1.20	.97	226287-2	—	—	—	—	—	—
3	A24721-ND	.77	.62	226619-3	—	—	—	—	—	—
4	A24723-ND	1.04	.84	226176-4	A24723CT-ND	104.54	479.12	A24723TR-ND	522.68/M	226176-2

Shielded Wire Ferrules (Thermashield)



Description	Primary Ins. Dia. Range – In. (mm)	Cable Size	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Tin Plated, Violet	.033-.059 (0.84-1.5)	RG-196A/U	A24713-ND	.94	.76	2-323930-2
Zinc Plated, Tin	.059-.085 (1.5-2.16)	RG-174/U	A24714-ND	1.03	.83	323931
Zinc Plated, Brown	.085-.095 (2.16-2.41)	—	A24715-ND	.96	.77	323932
Zinc Plated, Green	.115-.130 (2.92-3.30)	RG58C/U, RG-141A/U, RG-223/U	A24716-ND	1.30	1.05	323934
Tin Plated, Green	.115-.130 (2.92-3.30)	RG58C/U, RG-141A/U, RG-223/U	A24717-ND	.94	.76	2-323934-2
Zinc Plated, Violet	.130-.145 (3.3-3.68)	—	A24718-ND	2.27	1.82	327137

Paladin Tools®

Coaxial Crimper

Fully ratcheted crimp tool for RG6/6QS CATV "F" terminations. Safety release

PAL70006.1-ND..**$27.99**

CUI INC

F Connectors

Fig. 1

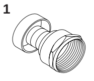


Fig. 2

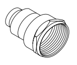


Fig. 3

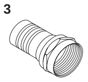


Fig. 4

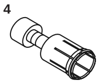


Fig. 5 *NEW!*

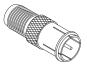


Fig. 6

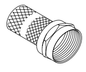


Fig. 7

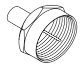


Fig. 8

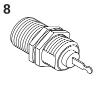


Fig. 9

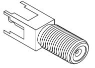


Fig. 10

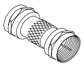


Fig. 11

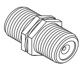


Fig. 12

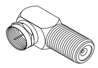


Fig. 13

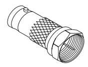
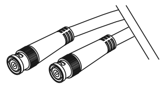


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	1,000
1	Separated Crimp Ring, for RG-59 Cable	CP-0010-ND	.33	.29	.22	.17
	Separated Crimp Ring, for RG-58 Cable	CP-0030-ND	.36	.32	.24	.18
	Separated Crimp Ring, for RG-6 Cable	CP-0060-ND	.37	.32	.25	.19
2	Built-On Crimp Ring, for RG-59 Cable	CP-0110-ND	.51	.44	.34	.26
	Built-On Crimp Ring, for RG-6 Cable	CP-0160-ND	.51	.44	.34	.26
3	Long Type Built-On Crimp Ring, for RG-59 Cable	CP-0210-ND	.48	.42	.33	.25
	Long Type Built-On Crimp Ring, for RG-6 Cable	CP-0260-ND	.48	.42	.33	.25
4	Push-On, Crimp Type, for RG-59 Cable	CP-0310-ND	.71	.62	.47	.36
	Push-On, Crimp Type, for RG-58 Cable	CP-0330-ND	.71	.62	.47	.36
5	Adapter, Screw-On/Push-On	CP-2000-ND *NEW!*	1.14	.99	.76	.57
6	Twist-On Type, for RG-59 Cable	CP-0410-ND	.44	.38	.30	.22
7	Male Terminator, with Built-In 75 Ohm Resistor	CP-0610-ND	.41	.36	.28	.21
8	Female Bulkhead Receptacle, with Washer and Nut	CP-1010-ND	.53	.46	.35	.27
9	PCB Type, Full Length 26mm	CP-1210-ND	.77	.67	.52	.39
10	Adapter, Universal Male F to F Coupler	CP-2010-ND	1.24	1.08	.83	.62
11	Adapter, Female F to F Coupler, with Washer and Nut	CP-2110-ND	.48	.42	.33	.25
12	Adapter, Right Angle F Male to F Female	CP-2510-ND	1.62	1.41	1.08	.81
13	Adapter, F Male to BNC Female	CP-0130-ND	2.19	1.90	1.46	1.10

tpi

BNC and F Connector Cables, Male to Male



Item	Description	Cable Type RG58	RG59	RG6
Conductor	Material	BC	CCS	BC
	No. / in. (mm)	1 / .32 (0.813)	1 / .253 (0.643)	1 / .253 (0.643)
Insulation	Material	LDPE	LDPE	LDPE
	Color	Natural	Natural	Natural
	Diameter: in. (mm)	.116 (2.95)	.146 (3.71)	.146 (3.71)
Braided Shielding	Material	BC	BC	BC
	No. / in. (mm)	16/7 / .051 (0.12)	16/7 / .051 (0.12)	16/7 / .051 (0.12)
Jacket	Material	PVC	PVC	PVC
	Thickness: in. (mm)	.283 (0.72)	.354 (0.9)	.354 (0.9)
	Color	Black	Black	See Below
	Outer Diameter: in. (mm)	.195 ± .006 (4.95 ± 0.15)	.236 ± .006 (6.0 ± 0.15)	.236 ± .006 (6.0 ± 0.15)
General	Tensile Strength	1,500 psi	1,500 psi	1,500 psi
	Nominal Impedance (ohm)	53.5	73	75
	Nominal Capacitance (pF/m)	93.5	68.9	44.3
	Attenuation 100MHz (db/km)	138	125	102
	Voltage Rating	5.0kv	7.0kv	3.0kv
	UL Standard	1354	1354	1354

BC = Bare Copper   CCS = Copper Clad Steel   LDPE = Low Density PE

Length Ft. (M)	Digi-Key Part No.	Price Each	TPI Part No.
BNC Connector Cables			
RG58/U Molded Strain Relief Cables 50Ω			
1 (.30)	290-1009-ND	7.95	58-012-1M
2 (.61)	290-1010-ND	8.49	58-024-1M
3 (.91)	290-1011-ND	8.95	58-036-1M
4 (1.22)	290-1012-ND	9.44	58-048-1M
5 (1.52)	290-1013-ND	9.98	58-060-1M
6 (1.83)	290-1014-ND	10.49	58-072-1M
10 (3.05)	290-1015-ND	12.54	58-120-1M
15 (4.57)	290-1016-ND	15.18	58-180-1M
25 (7.62)	290-1017-ND	20.79	58-300-1M
50 (15.24)	290-1018-ND	31.99	58-600-1M
75 (22.86)	290-1019-ND	45.49	58-900-1M
100 (30.48)	290-1020-ND	57.49	58-1200-1M
RG59/U Molded Strain Relief Cables 75Ω			
1 (.30)	290-1021-ND	7.95	59-012-1M
2 (.61)	290-1022-ND	8.49	59-024-1M
3 (.91)	290-1023-ND	8.95	59-036-1M
4 (1.22)	290-1024-ND	9.44	59-048-1M
5 (1.52)	290-1025-ND	9.98	59-060-1M
6 (1.83)	290-1026-ND	10.49	59-072-1M
10 (3.05)	290-1027-ND	12.54	59-120-1M
15 (4.57)	290-1028-ND	15.18	59-180-1M
25 (7.62)	290-1029-ND	20.79	59-300-1M
50 (15.24)	290-1030-ND	31.99	59-600-1M
75 (22.86)	290-1031-ND	45.49	59-900-1M
100 (30.48)	290-1032-ND	57.49	59-1200-1M
F Connector Cables			
RG6/U Molded End Cables - Black			
3 (.91)	290-1081-ND	7.08	F6-3B
6 (1.83)	290-1082-ND	9.15	F6-6B
10 (3.05)	290-1083-ND	10.68	F6-10B
12 (3.66)	290-1084-ND	11.73	F6-12B
15 (4.57)	290-1085-ND	14.28	F6-15B
25 (7.62)	290-1086-ND	17.88	F6-25B
50 (15.24)	290-1135-ND	16.79	F6-50B
75 (22.86)	290-1136-ND	26.35	F6-75B
100 (30.48)	290-1137-ND	35.50	F6-100B
RG6/U Molded End Cables - White			
3 (.91)	290-1090-ND	7.41	F6-3W
6 (1.83)	290-1091-ND	9.60	F6-6W
10 (3.05)	290-1092-ND	11.01	F6-10W
12 (3.66)	290-1093-ND	12.21	F6-12W
15 (4.57)	290-1094-ND	14.61	F6-15W
25 (7.62)	290-1095-ND	18.21	F6-25W
50 (15.24)	290-1138-ND	16.79	F6-50W
75 (22.86)	290-1139-ND	26.35	F6-75W
100 (30.48)	290-1140-ND	35.50	F6-100W

Coax Adapter Connector Kit

Kit includes male and female connectors of all eight types. Any adapter can be created on the spot in just seconds. Simply screw any combination of 24 connectors to one of the six universal interfaces.

• Gold plated contacts • Silver plated machined brass connector bodies with teflon insulation

290-1045-ND   TPI Part No. TPI-3000A **$150.00**

JOHNSON Components

Fixed Length Cables

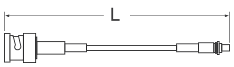
Features:

• Tested to customer specifications • Flexible cable • 0 to 26 GHz • 50 and 75 Ohms • Controlled impedance

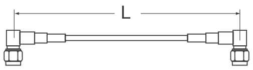
Applications:

• Voltage/Continuity Test Fixture • Interface location gauging • VSWR Quality Assurance Scalar Analyzer • VSWR/TDR Design Engineering Vector Analyzer • CNC Hardline Bender (Semi-rigid cables)

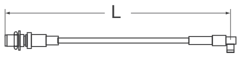
Straight to Straight



Right Angle to Right Angle



Straight to Right Angle



Straight to Straight

Cable Type	Dim. L (In.)	Digi-Key Part No.	Price Each			Johnson Part No.
			1	10	25	
SMB Plug to SMB Plug						
RG-316	6	J1206-ND	13.50	10.13	8.55	415-0003-006
	12	J1212-ND	13.88	10.41	8.79	415-0003-012
	24	J1224-ND	15.00	11.25	9.50	415-0003-024
	36	J1236-ND	15.75	11.82	9.98	415-0003-036
SMB 75Ω Plug to SMB 75Ω Plug						
RG-179	6	J1606-ND	13.88	10.41	8.79	415-0008-006
	12	J1612-ND	14.63	10.97	9.27	415-0008-012
	24	J1624-ND	15.75	11.82	9.98	415-0008-024
	36	J1636-ND	17.25	12.94	10.93	415-0008-036
RG-179DS	6	J1806-ND	14.25	10.69	9.03	415-0010-006
	12	J1812-ND	15.38	11.54	9.74	415-0010-012
	24	J1824-ND	17.25	12.94	10.93	415-0010-024
	36	J1836-ND	19.13	14.35	12.12	415-0010-036
Belden 735A	6	J2006-ND	18.00	13.50	11.40	415-0012-006
	12	J2012-ND	19.50	14.63	12.35	415-0012-012
	24	J2024-ND	22.13	16.60	14.02	415-0012-024
	36	J2036-ND	25.13	18.85	15.92	415-0012-036
MCX Plug to MCX Plug						
RG-178	6	J2206-ND	12.75	9.57	8.08	415-0014-006
	12	J2212-ND	13.50	10.13	8.55	415-0014-012
	24	J2224-ND	15.00	11.25	9.50	415-0014-024
	36	J2236-ND	16.50	12.38	10.45	415-0014-036
RG-316	6	J2606-ND	10.50	7.88	6.65	415-0018-006
	12	J2612-ND	10.88	8.16	6.89	415-0018-012
	24	J2624-ND	11.63	8.72	7.37	415-0018-024
	36	J2636-ND	12.75	9.57	8.08	415-0018-036
RG-316DS	6	J2806-ND	10.13	7.60	6.42	415-0020-006
	12	J2812-ND	10.50	7.88	6.65	415-0020-012
	24	J2824-ND	11.63	8.72	7.37	415-0020-024
	36	J2836-ND	13.13	9.85	8.32	415-0020-036
MCX Plug to MCX Bulkhead Jack						
RG-316	6	J2406-ND	15.38	11.54	9.74	415-0016-006
	12	J2412-ND	15.75	11.82	9.98	415-0016-012
	24	J2424-ND	16.50	12.38	10.45	415-0016-024
	36	J2436-ND	17.63	13.22	11.17	415-0016-036
MCX 75Ω Plug to MCX 75Ω Plug						
RG-179	6	J3006-ND	17.63	13.22	11.17	415-0022-006
	12	J3012-ND	18.38	13.79	11.64	415-0022-012
	24	J3024-ND	19.50	14.63	12.35	415-0022-024
	36	J3036-ND	21.00	15.75	13.30	415-0022-036
Belden 735A	6	J3106-ND	20.63	15.47	13.07	415-0023-006
	12	J3112-ND	22.13	16.60	14.02	415-0023-012
	24	J3124-ND	24.75	18.57	15.68	415-0023-024
	36	J3136-ND	27.75	20.82	17.58	415-0023-036
SMA Plug to SMA Plug						
RG-178	6	J3306-ND	12.75	9.57	8.08	415-0025-006
	12	J3312-ND	13.50	10.13	8.55	415-0025-012
	24	J3324-ND	15.00	11.25	9.50	415-0025-024
	36	J3336-ND	17.63	13.22	11.17	415-0025-036
RG-316	6	J3706-ND	11.25	8.44	7.13	415-0029-006
	12	J3712-ND	12.00	9.00	7.60	415-0029-012
	24	J3724-ND	12.75	9.57	8.08	415-0029-024
	36	J3736-ND	13.88	10.41	8.79	415-0029-036
RG-316DS	6	J4106-ND	11.63	8.72	7.37	415-0033-006
	12	J4112-ND	12.00	9.00	7.60	415-0033-012
	24	J4124-ND	13.50	10.13	8.55	415-0033-024
	36	J4136-ND	14.63	10.97	9.27	415-0033-036
RG-58	12	J4612-ND	13.50	10.13	8.55	415-0038-012
	24	J4624-ND	14.25	10.69	9.03	415-0038-024
	36	J4636-ND	15.00	11.25	9.50	415-0038-036
RG-142	12	J5112-ND	16.88	12.66	10.69	415-0043-012
	24	J5124-ND	21.75	16.32	13.78	415-0043-024
	36	J5136-ND	26.63	19.97	16.87	415-0043-036
SMA Plug to SMA Bulkhead Jack						
RG-316	6	J3906-ND	12.75	9.57	8.08	415-0031-006
	12	J3912-ND	13.50	10.13	8.55	415-0031-012
	24	J3924-ND	14.25	10.69	9.03	415-0031-024
	36	J3936-ND	15.00	11.25	9.50	415-0031-036
RG-316DS	6	J4306-ND	12.75	9.57	8.08	415-0035-006
	12	J4312-ND	13.50	10.13	8.55	415-0035-012
	24	J4324-ND	15.00	11.25	9.50	415-0035-024
	36	J4336-ND	16.13	12.10	10.22	415-0035-036
RG-58	12	J4812-ND	17.25	12.94	10.93	415-0040-012
	24	J4824-ND	18.00	13.50	11.40	415-0040-024
	36	J4836-ND	18.75	14.07	11.88	415-0040-036
RG-142	12	J5312-ND	20.63	15.47	13.07	415-0045-012
	24	J5324-ND	25.50	19.13	16.15	415-0045-024
	36	J5336-ND	30.38	22.79	19.24	415-0045-036
BNC Plug to BNC Plug						
RG-58	12	J6212-ND	8.63	6.47	5.47	415-0054-012
	24	J6224-ND	9.38	7.04	5.94	415-0054-024
	36	J6236-ND	10.50	7.88	6.65	415-0054-036
RG-59TFE	12	J6312-ND	11.63	8.72	7.37	415-0055-012
	24	J6324-ND	15.75	11.82	9.98	415-0055-024
	36	J6336-ND	19.88	14.91	12.59	415-0055-036
Belden 8218	12	J6412-ND	8.63	6.47	5.47	415-0056-012
	24	J6424-ND	9.75	7.32	6.18	415-0056-024
	36	J6436-ND	10.50	7.88	6.65	415-0056-036
RG-59	12	J6512-ND	8.63	6.47	5.47	415-0057-012
	24	J6524-ND	9.75	7.32	6.18	415-0057-024
	36	J6536-ND	10.50	7.88	6.65	415-0057-036
BNC 75Ω Plug to BNC 75Ω Plug						
Belden 8218	12	J5512-ND	11.63	8.72	7.37	415-0047-012
	24	J5524-ND	12.38	9.29	7.84	415-0047-024
	36	J5536-ND	13.50	10.13	8.55	415-0047-036
RG-59	12	J5612-ND	12.38	9.29	7.84	415-0048-012
	24	J5624-ND	13.13	9.85	8.32	415-0048-024
	36	J5636-ND	14.25	10.69	9.03	415-0048-036
Belden 8281	12	J5712-ND	13.20	9.90	8.36	415-0049-012
	24	J5724-ND	15.38	11.54	9.74	415-0049-024
	36	J5736-ND	17.25	12.94	10.93	415-0049-036
COMSCOPE 735	12	J5812-ND	12.75	9.57	8.08	415-0050-012
	24	J5824-ND	14.25	10.69	9.03	415-0050-024
	36	J5836-ND	16.13	12.10	10.22	415-0050-036
Belden 735A	12	J5912-ND	13.88	10.41	8.79	415-0051-012
	24	J5924-ND	16.50	12.38	10.45	415-0051-024
	36	J5936-ND	19.50	14.63	12.35	415-0051-036
Belden 734A	12	J6012-ND	15.00	11.25	9.50	415-0052-012
	24	J6024-ND	19.13	14.35	12.12	415-0052-024
	36	J6036-ND	22.88	17.16	14.49	415-0052-036
Belden 1694A	12	J6112-ND	12.75	9.57	8.08	415-0053-012
	24	J6124-ND	14.25	10.69	9.03	415-0053-024
	36	J6136-ND	15.38	11.54	9.74	415-0053-036
N Plug to N Plug						
RG-58	12	J6612-ND	12.38	9.29	7.84	415-0058-012
	24	J6624-ND	13.13	9.85	8.32	415-0058-024
	36	J6636-ND	14.25	10.69	9.03	415-0058-036
RG-142	12	J6812-ND	16.50	12.38	10.45	415-0060-012
	24	J6824-ND	21.38	16.04	13.54	415-0060-024
	36	J6836-ND	26.25	19.69	16.63	415-0060-036
RG-8	12	J7012-ND	15.38	11.54	9.74	415-0062-012
	24	J7024-ND	18.75	14.07	11.88	415-0062-024
	36	J7036-ND	21.75	16.32	13.78	415-0062-036
RG-213	12	J7112-ND	13.88	10.41	8.79	415-0063-012
	24	J7124-ND	15.38	11.54	9.74	415-0063-024
	36	J7136-ND	17.25	12.94	10.93	415-0063-036
SMA Plug to N Plug						
RG-58	12	J6712-ND	12.75	9.57	8.08	415-0059-012
	24	J6724-ND	13.88	10.41	8.79	415-0059-024
	36	J6736-ND	14.63	10.97	9.27	415-0059-036
RG-142	12	J6912-ND	16.50	12.38	10.45	415-0061-012
	24	J6924-ND	21.75	16.32	13.78	415-0061-024
	36	J6936-ND	26.25	19.69	16.63	415-0061-036
SMA Plug to BNC Plug						
RG-316	6	J3606-ND	10.50	7.88	6.65	415-0028-006
	12	J3612-ND	10.88	8.16	6.89	415-0028-012
	24	J3624-ND	11.63	8.72	7.37	415-0028-024
	36	J3636-ND	12.75	9.57	8.08	415-0028-036
RG-58	12	J4512-ND	10.88	8.16	6.89	415-0037-012
	24	J4524-ND	12.00	9.00	7.60	415-0037-024
	36	J4536-ND	12.75	9.57	8.08	415-0037-036
RG-142	12	J5012-ND	15.00	11.25	9.50	415-0042-012
	24	J5024-ND	19.50	14.63	12.35	415-0042-024
	36	J5036-ND	24.38	18.29	15.44	415-0042-036

Right Angle to Right Angle

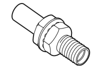
Cable Group	Dim. L (In.)	Digi-Key Part No.	Price Each			Johnson Part No.
			1	10	25	
SMB Plug to SMB Plug						
RG-178	6	J1006-ND	15.00	11.25	9.50	415-0001-006
	12	J1012-ND	15.75	11.82	9.98	415-0001-012
	24	J1024-ND	17.25	12.94	10.93	415-0001-024
	36	J1036-ND	18.75	14.07	11.88	415-0001-036
RG-316	6	J7306-ND	13.88	10.41	8.79	415-0004-006
	12	J7312-ND	14.25	10.69	9.03	415-0004-012
	24	J7324-ND	15.38	11.54	9.74	415-0004-024
	36	J7336-ND	16.50	12.38	10.45	415-0004-036
RG-316DS	6	J1406-ND	14.63	10.97	9.27	415-0006-006
	12	J1412-ND	15.00	11.25	9.50	415-0006-012
	24	J1424-ND	16.50	12.38	10.45	415-0006-024
	36	J1436-ND	18.00	13.50	11.40	415-0006-036
SMB 75Ω Plug to SMB 75Ω Plug						
RG-179	6	J1706-ND	14.25	10.69	9.03	415-0009-006
	12	J1712-ND	15.00	11.25	9.50	415-0009-012
	24	J1724-ND	16.13	12.10	10.22	415-0009-024
	36	J1736-ND	17.25	12.94	10.93	415-0009-036
RG-179DS	6	J1906-ND	14.63	10.97	9.27	415-0011-006
	12	J1912-ND	15.38	11.54	9.74	415-0011-012
	24	J1924-ND	17.25	12.94	10.93	415-0011-024
	36	J1936-ND	19.13	14.35	12.12	415-0011-036
Belden 735A	6	J2106-ND	18.75	14.07	11.88	415-0013-006
	12	J2112-ND	20.25	15.19	12.83	415-0013-012
	24	J2124-ND	22.88	17.16	14.49	415-0013-024
	36	J2136-ND	25.50	19.13	16.15	415-0013-036
MCX Plug to MCX Plug						
RG-178	6	J2306-ND	12.38	9.29	7.84	415-0015-006
	12	J2312-ND	13.50	10.13	8.55	415-0015-012
	24	J2324-ND	14.63	10.97	9.27	415-0015-024
	36	J2336-ND	16.50	12.38	10.45	415-0015-036
RG-316	6	J2706-ND	12.00	9.00	7.60	415-0019-006
	12	J2712-ND	12.38	9.29	7.84	415-0019-012
	24	J2724-ND	13.50	10.13	8.55	415-0019-024
	36	J2736-ND	14.25	10.69	9.03	415-0019-036
RG-316DS	6	J2906-ND	12.00	9.00	7.60	415-0021-006
	12	J2912-ND	12.75	9.57	8.08	415-0021-012
	24	J2924-ND	13.88	10.41	8.79	415-0021-024
	36	J2936-ND	15.00	11.25	9.50	415-0021-036
MCX 75Ω Plug to MCX 75Ω Plug						
Belden 735A	6	J3206-ND	16.50	12.38	10.45	415-0024-006
	12	J3212-ND	17.63	13.22	11.17	415-0024-012
	24	J3224-ND	20.25	15.19	12.83	415-0024-024
	36	J3236-ND	23.25	17.44	14.73	415-0024-036
SMA Plug to SMA Plug						
RG-178	6	J3506-ND	17.63	13.22	11.17	415-0027-006
	12	J3512-ND	18.38	13.79	11.64	415-0027-012
	24	J3524-ND	20.25	15.19	12.83	415-0027-024
	36	J3536-ND	21.75	16.32	13.78	415-0027-036
RG-316	6	J4006-ND	14.63	10.97	9.27	415-0032-006
	12	J4012-ND	15.00	11.25	9.50	415-0032-012
	24	J4024-ND	16.13	12.10	10.22	415-0032-024
	36	J4036-ND	17.25	12.94	10.93	415-0032-036
RG-316DS	6	J4406-ND	15.00	11.25	9.50	415-0036-006
	12	J4412-ND	15.38	11.54	9.74	415-0036-012
	24	J4424-ND	16.50	12.38	10.45	415-0036-024
	36	J4436-ND	18.00	13.50	11.40	415-0036-036
RG-58	12	J4912-ND	16.50	12.38	10.45	415-0041-012
	24	J4924-ND	17.25	12.94	10.93	415-0041-024
	36	J4936-ND	18.00	13.50	11.40	415-0041-036
RG-142	12	J5412-ND	19.88	14.91	12.59	415-0046-012
	24	J5424-ND	24.75	18.57	15.68	415-0046-024
	36	J5436-ND	29.63	22.22	18.77	415-0046-036

Straight to Right Angle

Cable Group	Dim. L (In.)	Digi-Key Part No.	Price Each			Johnson Part No.
			1	10	25	
SMB Plug to SMB Plug						
RG-316	6	J1106-ND	13.50	10.13	8.55	415-0002-006
	12	J1112-ND	14.25	10.69	9.03	415-0002-012
	24	J1124-ND	15.00	11.25	9.50	415-0002-024
	36	J1136-ND	16.13	12.10	10.22	415-0002-036
RG-316DS	6	J1306-ND	13.88	10.41	8.79	415-0005-006
	12	J1312-ND	14.63	10.97	9.27	415-0005-012
	24	J1324-ND	15.75	11.82	9.98	415-0005-024
	36	J1336-ND	17.25	12.94	10.93	415-0005-036
RG-178	6	J1506-ND	16.50	12.38	10.45	415-0007-006
	12	J1512-ND	17.25	12.94	10.93	415-0007-012
	24	J1524-ND	19.13	14.35	12.12	415-0007-024
	36	J1536-ND	20.63	15.47	13.07	415-0007-036
MCX Plug to MCX Plug						
RG-316	6	J2506-ND	11.25	8.44	7.13	415-0017-006
	12	J2512-ND	11.63	8.72	7.37	415-0017-012
	24	J2524-ND	12.38	9.29	7.84	415-0017-024
	36	J2536-ND	13.50	10.13	8.55	415-0017-036
SMA Plug to SMA Plug						
RG-178	6	J3406-ND	15.38	11.54	9.74	415-0026-006
	12	J3412-ND	16.13	12.10	10.22	415-0026-012
	24	J3424-ND	17.63	13.22	11.17	415-0026-024
	36	J3436-ND	19.50	14.63	12.35	415-0026-036
RG-316	6	J3806-ND	13.13	9.85	8.32	415-0030-006
	12	J3812-ND	13.50	10.13	8.55	415-0030-012
	24	J3824-ND	14.63	10.97	9.27	415-0030-024
	36	J3836-ND	15.38	11.54	9.74	415-0030-036
RG-316DS	6	J4206-ND	13.13	9.85	8.32	415-0034-006
	12	J4212-ND	13.88	10.41	8.79	415-0034-012
	24	J4224-ND	15.00	11.25	9.50	415-0034-024
	36	J4236-ND	16.13	12.10	10.22	415-0034-036
RG-58	12	J4712-ND	15.00	11.25	9.50	415-0039-012
	24	J4724-ND	15.75	11.82	9.98	415-0039-024
	36	J4736-ND	16.50	12.38	10.45	415-0039-036
RG-142	12	J5212-ND	18.38	13.79	11.64	415-0044-012
	24	J5224-ND	23.25	17.44	14.73	415-0044-024
	36	J5236-ND	28.13	21.10	17.82	415-0044-036

JOHNSON
Components™

RF Connectors SMA/SMB Type

Fig. 1

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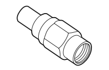
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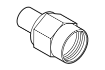
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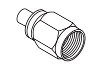
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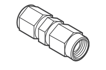
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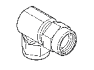
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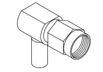
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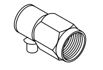
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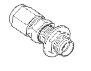
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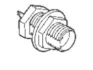
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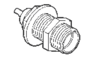
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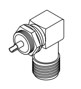
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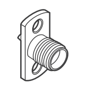
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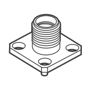
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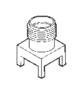
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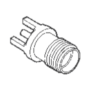
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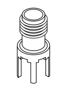
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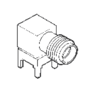
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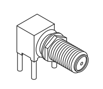
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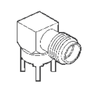
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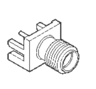
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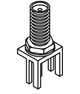
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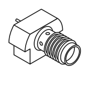
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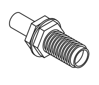
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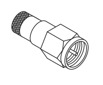
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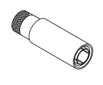
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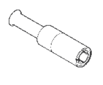
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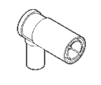
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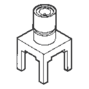
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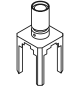
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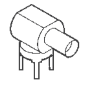
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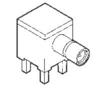
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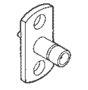
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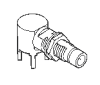
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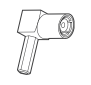


Fig.	Type (Desc.)	Cable Group	Plating	Digi-Key Part No.	Price Each			Johnson Part No.
					1	10	50	
SMA Type								
1	Crimp	2*	Gold	J523-ND	7.83	6.87	5.90	142-0303-411
	Crimp	2*	Nickel	J524-ND	7.53	6.61	5.68	142-0303-416
2	Crimp	2*	Gold	J525-ND	4.71	4.14	3.56	142-0403-011
	Crimp	2*	Nickel	J526-ND	4.34	3.81	3.27	142-0403-016
3	Solder	RG-402	Gold	J485-ND	1.29	1.13	.98	142-0694-011
	Solder	RG-402	Nickel	J486-ND	.89	.79	.68	142-0694-016
	Solder	RG-405	Gold	J487-ND	3.86	3.39	2.92	142-0693-001
	Solder	RG-405	Nickel	J488-ND	3.47	3.05	2.62	142-0693-006
4	Crimp	RG-178/U, 196	Gold	J605-ND	6.06	5.32	4.57	142-0402-011
	Crimp	4	Gold	J637-ND‡	6.15	5.40	4.64	142-0439-001
	Crimp	5	Gold	J638-ND‡‡	6.15	5.40	4.64	142-0435-001
5	Clamp	2*	Gold	J474-ND	10.00	8.77	7.54	142-0203-011
	Clamp	2*	Nickel	J475-ND	9.13	8.01	6.89	142-0203-016
	Clamp	3**	Gold	J480-ND	17.11	15.01	12.90	142-0207-011
	Clamp	3**	Nickel	J481-ND	16.15	14.17	12.18	142-0207-016
6	Clamp	2*	Nickel	J477-ND	7.79	6.83	5.88	142-0203-106
	Clamp	3**	Nickel	J484-ND	8.91	7.82	6.72	142-0207-106
7	Crimp	2*	Gold	J510-ND	6.88	6.04	5.19	142-0403-101
	Crimp	4	Gold	J639-ND‡	8.65	7.59	6.53	142-0439-101
	Crimp	5	Gold	J640-ND‡‡	9.61	8.43	7.25	142-0435-101
8	Solder	.086 Semi-Rigid	Gold	J606-ND	8.56	7.51	6.46	142-0693-101
	Solder	.141 Semi-Rigid	Gold	J607-ND	8.56	7.51	6.46	142-0694-101
9	Clamp	2*	Gold	J478-ND	11.54	10.12	8.70	142-0103-401
10	Panel Mt.	—	Gold	J490-ND	5.39	4.73	4.06	142-0701-401
11	Panel Mt.	—	Gold	J489-ND	6.45	5.66	4.87	142-0701-411
12	Solder	—	Gold	J609-ND	12.30	10.79	9.28	142-0701-531
13	Flange Mt.	—	Gold	J492-ND	5.37	4.71	4.05	142-0701-621
14	Flange Mt.	—	Gold	J493-ND	5.37	4.71	4.05	142-0701-631
15	PC Mt.	—	Gold	J494-ND	6.75	5.92	5.09	142-0701-211
	PC Mt.	—	Nickel	J495-ND	6.34	5.57	4.79	142-0701-216
16	PC Mt.	—	Gold	J500-ND	4.65	4.08	3.51	142-0701-201
17	PC Mt.	—	Gold	J608-ND	4.65	4.08	3.51	142-0701-231
18	PC Mt.	—	Gold	J496-ND	11.29	9.90	8.51	142-0701-321
	PC Mt.	—	Nickel	J497-ND	10.60	9.30	7.99	142-0701-326
19	PC Mt.	—	Gold	J569-ND	10.77	9.45	8.13	142-0701-501
20	PC Mt.	—	Gold	J501-ND	7.45	6.54	5.62	142-0701-301
21	.062" PC Mt.	—	Gold	J502-ND§	5.07	4.45	3.83	142-0701-801
	.062" PC Mt.	—	Gold	J629-ND§	6.06	5.32	4.57	142-0711-821
	.031" PC Mt.	—	Gold	J657-ND	5.58	4.90	4.21	142-0701-881
	.062" PC Mt.	—	Gold	J658-ND§	5.92	5.19	4.46	142-0701-851
	.042" PC Mt.	—	Gold	J630-ND	6.75	5.92	5.09	142-0701-841
22	PC Mt.	—	Gold	J610-ND	6.34	5.56	4.78	142-0701-871
23	PC Mt.	—	Gold	J631-ND	5.47	4.80	4.13	142-0721-881
24	Crimp	4‡	Gold	J641-ND	9.61	8.43	7.25	142-0339-401
	Crimp	5‡‡	Gold	J642-ND	9.61	8.43	7.25	142-0335-401
25	50 ohm Terminator	—	Gold	J634-ND	31.20	27.36	23.52	142-0801-861

Fig.	Type (Desc.)	Cable Group	Plating	Digi-Key Part No.	Price Each			Johnson Part No.
					1	10	50	
SMB Type								
26	50 ohm Terminator	—	Gold	J635-ND	13.20	11.58	9.95	131-3801-811
	75 ohm Terminator	—	Gold	J636-ND	12.21	10.71	9.21	131-3801-821
27	Crimp	2*	Nickel	J464-ND	4.93	4.33	3.72	131-1403-016
28	Crimp	2*	Gold	J465-ND	4.89	4.29	3.69	131-1403-101
	Crimp	2*	Nickel	J466-ND	4.11	3.61	3.10	131-1403-116
29	PC Mt.	—	Gold	J467-ND†	2.65	2.33	2.00	131-1701-201
	PC Mt.	—	Nickel	J468-ND†	2.50	2.20	1.89	131-1701-206
	PC Mt.	—	Nickel	J469-ND†	2.50	2.20	1.89	131-1701-216
30	PC Mt.	—	Gold	J613-ND†	2.09	1.84	1.58	131-3701-261
	PC Mt.	—	Nickel	J614-ND†	2.00	1.75	1.51	131-3701-266
	PC Mt.	—	Gold	J615-ND†	2.09	1.84	1.58	131-3701-271
	PC Mt.	—	Nickel	J616-ND†	2.00	1.75	1.51	131-3701-276
31	PC Mt.	—	Gold	J472-ND	5.05	4.43	3.81	131-3701-301
32	PC Mt.	—	Gold	J470-ND	4.65	4.09	3.51	131-1701-371
	PC Mt.	—	Nickel	J471-ND	4.48	3.93	3.38	131-1701-376
33	Panel Mt.	—	Gold	J520-ND	7.00	6.14	5.28	131-3701-621
34	Panel Mt.	—	Gold	J522-ND	6.73	5.91	5.08	131-3701-341
NEW! Non-Magnetic SMA Connectors NEW!								
3	Crimp	2*	Gold	J660-ND	13.26	11.63	10.00	142-9403-011
	Crimp	6◊	Gold	J661-ND	13.81	12.12	10.42	142-9404-011
	Crimp	3**	Gold	J664-ND	14.37	12.60	10.83	142-9407-001
8	Crimp	2*	Gold	J662-ND	19.89	17.45	15.00	142-9403-101
	Crimp	6◊	Gold	J663-ND	20.44	17.93	15.42	142-9404-101
	Crimp	3**	Gold	J665-ND	20.44	17.93	15.42	142-9407-101
17	PC Mt.	—	Gold	J666-ND	9.83	8.63	7.42	142-9701-201
	PC Mt.	—	Gold	J667-ND	9.83	8.63	7.42	142-9701-211
20	PC Mt.	—	Gold	J668-ND	17.68	15.51	13.33	142-9701-301
21	PC Mt.	—	Gold	J669-ND	12.16	10.66	9.17	142-9701-801
	PC Mt.	—	Gold	J670-ND	12.16	10.66	9.17	142-9701-811
NEW! Non-Magnetic SMB Connectors NEW!								
27	Crimp	2*	Gold	J671-ND	17.29	15.17	13.04	131-9403-001
	Crimp	6◊	Gold	J672-ND	17.29	15.17	13.04	131-9404-001
29	PC Mt.	—	Gold	J675-ND	7.18	6.30	5.42	131-9701-201
	PC Mt.	—	Gold	J676-ND	7.18	6.30	5.42	131-9701-211
31	PC Mt.	—	Gold	J677-ND	15.80	13.86	11.92	131-9701-301
35	Crimp	2*	Gold	J673-ND	24.31	21.32	18.33	131-9403-101
	Crimp	6◊	Gold	J674-ND	24.31	21.32	18.33	131-9404-101
Crimp Tool Frame				J572-ND	87.15	—	—	140-0000-952
Die Set for SMA, SMB Type (RG178, 316, 316DS, 58)				J573-ND	105.83	—	—	140-0000-951

* **Group 2 Cables:** RG-161/U, RG-174/U, RG-179/U, RG-187/U, RG-188/U, RG-316/U
** **Group 3 Cables:** RG-58/U, RG-141/U, RG-303/U
‡ **Group 4 Cables:** LMR-200, HPF-200, RF-200
‡‡ **Group 5 Cables:** LMR-240, HPF-240, RF-240
◊ **Group 6 Cables:** RG-179DS, RG-187DS, RG-188DS, RG-316DS
† J467, J468, J613 and J614 Leg Length: .155"; J469, J615 and J616 Leg Length: .095"
§ J502: Round Contact, B. Dim. .073"; § J629: Round Contact, B. Dim. .042"; § J658: Tab Contact, B. Dim. .083"

RF Connectors MMCX Type

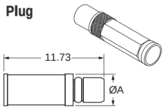
Fig. 1 – Straight Cabled Plug


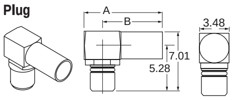
Fig. 2 – Right Angle Flexible Cabled Plug


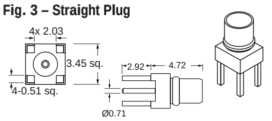
Fig. 3 – Straight Plug


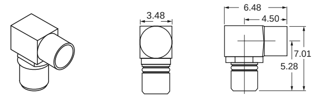
Fig. 4 – Right Angle Semi-Rigid Plug


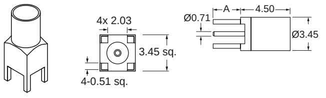
Fig. 5 – Straight Jack


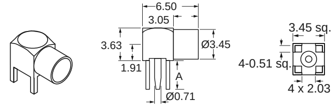
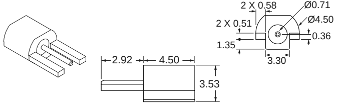
Fig. 6 – Right Angle Jack


Fig. 7 – End Launch Jack


ELECTRICAL RATINGS: • **Impedance:** 50 Ohms • **Frequency Range:** 0-6 GHz • **Working Voltage:** 170 Vrms at sea level • **Insulation Resistance:** 1000 megaohms min.
MECHANICAL RATINGS: • **Engagement/Disengagement Force:** 8.0 lbs. max. engagement; 1.4 lbs. min. disengagement • **Contact Retention Force:** 2.0 lbs. min. axial force • **Cable Retention:** 30 lbs. • **Durability:** 500 cycles min. **ENVIRONMENTAL RATINGS** • **Operating Temp.:** –55°C to 155°C

Fig.	Cable Type	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
1	RG 178/U, 196	3.48	—	J589-ND	4.47	3.92	3.37	135-3402-001
	RG 316/U, 188, 161, 174	4.39	—	J590-ND	6.66	5.85	5.03	135-3403-001
	RG 316 DS, 188 DS, 187 DS	4.39	—	J591-ND	6.83	5.99	5.15	135-3404-001
	.047" Dia. Flexible, Huber K01152-07, Axon P512479A	3.48	—	J592-ND	4.47	3.92	3.37	135-3436-001
2	RG 178/U, 196	8.99	7.01	J593-ND	7.31	6.42	5.52	135-3402-101
	RG 316/U, 188, 187, 179, 161, 174	10.46	8.48	J594-ND	7.39	6.49	5.58	135-3403-101
	RG 316 DS, RG 188 DS	10.46	8.48	J595-ND	7.56	6.63	5.70	135-3404-101
	.047" Dia. Flexible, Huber K01152-07, Axon P512479A	8.99	7.01	J596-ND	7.48	6.56	5.64	135-3436-101
3	—	—	—	J601-ND	7.02	6.16	5.30	135-3801-201
4	—	—	—	J602-ND	7.48	6.56	5.64	135-3693-101
5	Straight - Gold PCB	2.92	—	J597-ND	4.47	3.92	3.37	135-3701-201
	Straight - Gold PCB	1.73	—	J598-ND	4.39	3.85	3.31	135-3701-211
6	Right Angle - Gold PCB	2.92	—	J599-ND	8.61	7.56	6.50	135-3701-301
	Right Angle - Gold PCB	1.73	—	J600-ND	8.45	7.41	6.37	135-3701-311
7	End Launch - PCB	—	—	J603-ND	5.53	4.85	4.17	135-3711-801
Hand Crimp Tool (frame only)				J572-ND	87.15 each			140-0000-952
Crimp Tool Die Set				J604-ND	173.12 each			140-0000-953

JOHNSON Components™

RF Connectors MCX Type

FEATURES: • 30% Smaller than SMB. • Rugged snap-on mating design. • Captivated contact. **ELECTRICAL:** • **Impedance:** 50 Ohms • **Frequency Range:** 0-6 GHz • **Working Voltage at sea level:** 335 VRMS; 250 VRMS (J531-ND and J532-ND). **MECHANICAL:** • **Engage/Disengage Force:** 3.4 lbs. max engagement/5 lbs. typical disengagement • **Contact Retention Force:** 4 lbs. min. axial force • **Durability:** 500 cycles min.

Fig. 1 – Right Angle Cable Plug

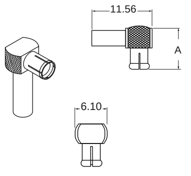


Fig. 2 – Straight Cable Plug

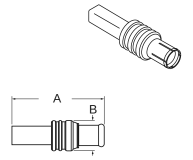


Fig. 3 – Straight Crimp Type Bulkhead Jack

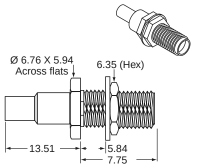


Fig. 4 – Straight Plug Receptacle

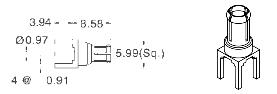


Fig. 5 – Straight PC Mount Jack

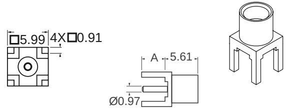


Fig. 6 – Right Angle PC Mnt. Jack

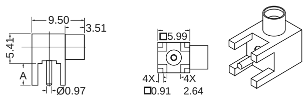


Fig. 7 – Front Mount Bulkhead Jack Receptacle

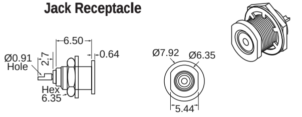


Fig. 8 – End Launch Jack

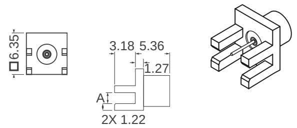


Fig. 9 – SMT Straight Jack

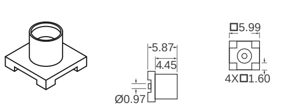


Fig. 10 – SMT Right Angle Jack

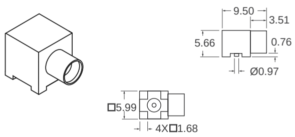


Fig. 11 – Straight Jack Receptacle - 2.54mm

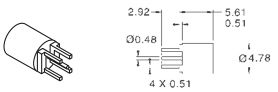


Fig.	Cable Type	Plating	Dim. A (mm)	Dim. B (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Johnson Part No.
50 Ohm										
1	RG 178	Gold	11.58	—	J531-ND	4.82	4.23	3.64	3.12	133-3402-101
	RG 316	Gold	11.58	—	J535-ND	4.56	4.01	3.44	2.95	133-3403-101
	RG 178	Nickel	11.58	—	J532-ND	4.65	4.08	3.51	3.01	133-3402-106
	RG 316	Nickel	11.58	—	J536-ND	4.39	3.86	3.32	2.84	133-3403-106
2	RG 316	Gold	15.19	4.98	J533-ND	3.80	3.34	2.87	2.46	133-3403-001
	RG 316	Nickel	15.19	4.98	J534-ND	3.55	3.12	2.68	2.30	133-3403-006
4	—	Gold	—	—	J612-ND	6.18	5.42	4.66	3.99	133-3801-201
5	—	Gold	3.94	—	J537-ND	3.41	3.00	2.58	2.21	133-3701-201
	—	Nickel	3.94	—	J538-ND	3.38	2.97	2.55	2.19	133-3701-206
	—	Gold	2.79	—	J539-ND	3.55	3.12	2.68	2.30	133-3701-211
	—	Nickel	2.79	—	J540-ND	3.38	2.97	2.55	2.19	133-3701-216
6	—	Gold	3.94	—	J541-ND	7.79	6.84	5.88	5.04	133-3701-301
6	—	Nickel	3.94	—	J542-ND	7.62	6.68	5.75	4.93	133-3701-306
	—	Gold	2.79	—	J543-ND	7.98	7.00	6.02	5.16	133-3701-311
	—	Nickel	2.79	—	J544-ND	7.79	6.84	5.88	5.04	133-3701-316
7	—	Gold	—	—	J545-ND	5.87	5.15	4.43	3.80	133-3701-401
	—	Nickel	—	—	J546-ND	5.68	4.98	4.29	3.67	133-3701-406
8	—	Gold	1.73	—	J547-ND	4.48	3.93	3.38	2.90	133-3701-801
9	—	Gold	—	—	J548-ND	5.10	4.47	3.85	3.30	133-3711-201
10	—	Gold	—	—	J549-ND	8.33	7.31	6.29	5.39	133-3711-301
11	—	Gold	—	—	J611-ND	4.05	3.55	3.06	2.62	133-3701-231
75 Ohm										
1	RG-179	Gold	7.98	—	J643-ND	5.27	4.62	3.97	3.41	133-8433-101
	RG-179DS	Gold	7.98	—	J644-ND	5.27	4.62	3.97	3.41	133-8434-101
2	RG-179	Gold	20.47	5.94	J645-ND	8.79	7.71	6.63	5.68	133-8433-001
	RG-179DS	Gold	20.47	5.94	J646-ND	8.79	7.71	6.63	5.68	133-8434-001
3	RG-179	Gold	—	—	J647-ND	10.59	9.29	7.98	6.84	133-8333-401
	RG-179DS	Gold	—	—	J648-ND	10.59	9.29	7.98	6.84	133-8334-401
5	—	Gold	3.80	—	J649-ND	4.83	4.24	3.65	3.13	133-8701-201
	—	Gold	2.70	—	J650-ND	4.65	4.08	3.51	3.01	133-8701-211
6	—	Gold	3.80	—	J651-ND	8.25	7.24	6.22	5.33	133-8701-301
	—	Gold	2.70	—	J652-ND	8.25	7.24	6.22	5.33	133-8701-311
8	—	Gold	1.73	—	J653-ND	4.74	4.16	3.58	3.07	133-8701-801
9	—	Gold	—	—	J654-ND	5.28	4.63	3.98	3.42	133-8711-201
NEW! Non-Magnetic MCX Connectors NEW!										
1	RG-316/u, 188, 174	Gold	7.90	11.56	J680-ND	8.29	7.27	6.25	5.36	133-9403-101
	RG-316DS, 188DS	Gold	7.90	11.56	J681-ND	8.84	7.76	6.67	5.72	133-9404-101
2	RG-316/u, 188, 174	Gold	15.19	4.98	J678-ND	7.18	6.30	5.42	4.65	133-9403-001
	RG-316DS, 188DS	Gold	15.19	4.98	J679-ND	7.74	6.79	5.84	5.00	133-9404-001
5	—	Gold	3.94	—	J682-ND	5.86	5.14	4.42	3.79	133-9701-201
	—	Gold	2.79	—	J683-ND	5.86	5.14	4.42	3.79	133-9701-211
6	—	Gold	3.94	—	J684-ND	9.39	8.24	7.09	6.07	133-9701-301
	—	Gold	2.79	—	J685-ND	9.13	8.01	6.89	5.91	133-9701-311
8	—	Gold	1.57	—	J686-ND	12.16	10.66	9.17	7.86	133-9701-801
Prototype Crimp Tool					J574-ND	325.65 each				141-0000-908
Hand Crimp Tool (frame only)					J572-ND	87.15 each				140-0000-952
Die Set (RG178, 316)					J573-ND	105.83 each				140-0000-951

Adapters

Gold plated.

Fig. 1

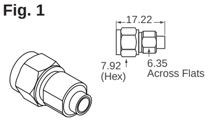


Fig. 2

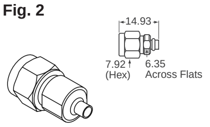


Fig. 3

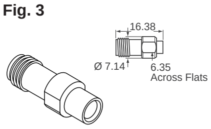


Fig. 4

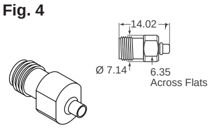


Fig. 5

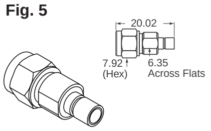


Fig. 6

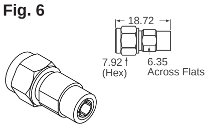


Fig. 7

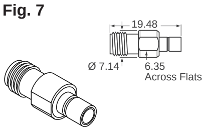


Fig. 8

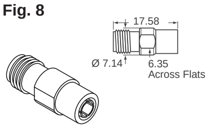


Fig. 9

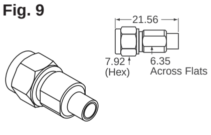


Fig. 10

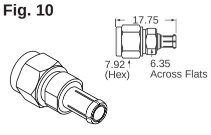


Fig. 11

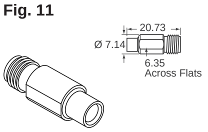


Fig. 12

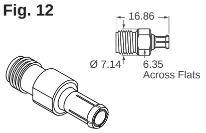


Fig. 13

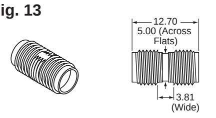


Fig. 14

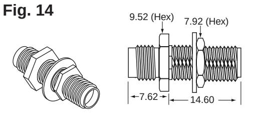


Fig. 15

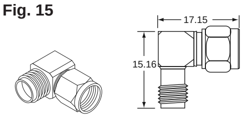


Fig. 16

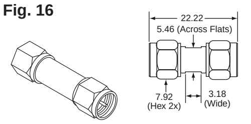


Fig. 17

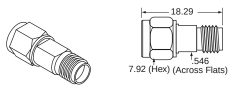


Fig.	Description	VSWR (GHz)	Freq. Range (GHz)	Digi-Key Part No.	Price Each 1	10	Johnson Part No.
1	SMA Plug to MMCX Jack	1.05+.05f	0-6	J617-ND	32.40	26.90	134-1019-151
2	SMA Plug to MMCX Plug	1.05+.05f	0-6	J618-ND	35.10	29.14	134-1019-161
3	SMA Jack to MMCX Jack	1.05+.05f	0-6	J619-ND	29.70	24.66	134-1019-171
4	SMA Jack to MMCX Plug	1.05+.05f	0-6	J620-ND	32.40	26.90	134-1019-181
5	SMA Plug to SMB Jack	1.05+.01f	0-4	J621-ND	29.70	24.66	134-1012-011
6	SMA Plug to SMB Plug	1.05+.01f	0-4	J622-ND	32.40	26.90	134-1012-021
7	SMA Jack to SMB Jack	1.05+.01f	0-4	J623-ND	29.70	24.66	134-1012-031
8	SMA Jack to SMB Plug	1.05+.01f	0-4	J624-ND	29.70	24.66	134-1012-041
9	SMA Plug to MCX Jack	1.03+.03f	0-6	J625-ND	29.70	24.66	134-1018-001

Fig.	Description	VSWR (GHz)	Freq. Range (GHz)	Digi-Key Part No.	Price Each 1	10	Johnson Part No.
10	SMA Plug to MCX Plug	1.03+.03f	0-6	J626-ND	32.40	26.90	134-1018-011
11	SMA Jack to MCX Jack	1.03+.03f	0-6	J627-ND	29.70	24.66	134-1018-021
12	SMA Jack to MCX Plug	1.03+.03f	0-6	J628-ND	29.70	24.66	134-1018-031
13	SMA Jack to SMA Jack	1.05+.005f	0-18	J655-ND	10.30	9.03	142-0901-801
14	SMA Jack to SMA Bulkhead Jack	1.05+.01f	0-18	J659-ND	15.89	13.94	142-0901-401
15	SMA Jack to SMA Plug / Rt. Angle	1.035+.02f	0-18	J632-ND	14.61	12.82	142-0901-941
16	SMA Plug to SMA Plug	1.05+.01f	0-18	J633-ND	13.02	11.42	142-0901-811
17	SMA Plug to SMA Jack	1.05+.005f	0-18	J656-ND	11.54	10.12	142-0901-821

RF Connectors and Adapters

Fig. 1

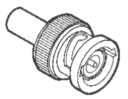


Fig. 2

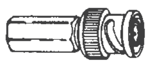


Fig. 3

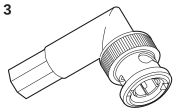


Fig. 4

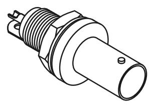


Fig. 5

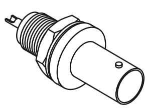


Fig. 6

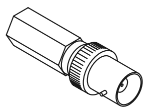
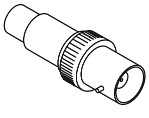


Fig. 7



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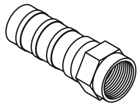

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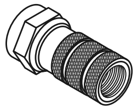

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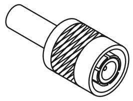


Fig. 11

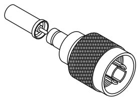


Fig. 12

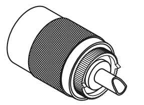


Fig. 13

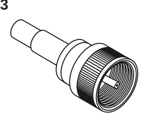


Fig. 14

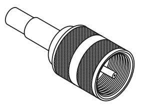


Fig. 15

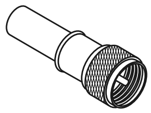


Fig. 16

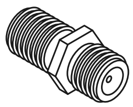


Fig. 17

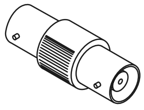


Fig. 18

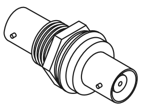
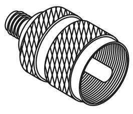


Fig. 19



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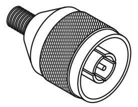


Fig. 21

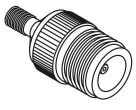


Fig. 22

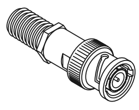
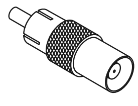


Fig. 23



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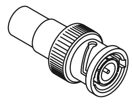


Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each			Cambridge Part No.
					1	25	50	
Connectors								
True 75 Ohm BNC								
1	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	RG-59, 140, 302, Belden 9209A, 8279, 8241, 8263	367-1067-ND	3.66	3.33	2.66	CPMC-68-2
			RG-6, Belden 8215	367-1069-ND	4.24	3.85	3.08	CPMC-68-5
			RG-179, 187, Belden 1520A	367-1072-ND	4.04	3.68	2.94	CPMC-68-20
BNC								
1	Plug	Crimp-Type Push-On, 50Ω	RG-58	367-1001-ND	1.43	1.31	1.05	CP-88-1
			RG-59, 62	367-1002-ND	1.43	1.31	1.05	CP-88-2
			RG-6	367-1004-ND	1.67	1.52	1.22	CP-88-5
		Crimp-Type, Solder or Crimp Contact, 50Ω	RG-179, 187	367-1043-ND	1.88	1.71	1.37	CPM-88-20
			RG-174, 188,316	367-1044-ND	1.88	1.71	1.37	CPM-88-19
			RG-58, 141	367-1047-ND	1.36	1.24	.99	CPMC-88-1
			RG-59, 62	367-1048-ND	1.36	1.24	.99	CPMC-88-2
			RG-TFE-59, 62	367-1050-ND	1.39	1.27	1.01	CPMC-88-10
			RG-142, 233, 400, 55	367-1052-ND	1.46	1.33	1.07	CPMC-88-13
			Belden 8218	367-1053-ND	1.65	1.50	1.20	CPMC-88-18
		Crimp-Type, Solder or Crimp Contact, 75Ω	RG-59, 62	367-1045-ND	1.52	1.38	1.11	CPMC-78-2
			Belden 8218, 1855A	367-1046-ND	1.78	1.62	1.30	CPMC-78-18
2	Plug	Twist-On, Field Installable, 50Ω	RG-58	367-1030-ND	1.67	1.52	1.22	CPFI-UG88-1
			RG-59, 62	367-1031-ND	1.75	1.59	1.27	CPFI-UG88-2
			RG-6	367-1034-ND	1.72	1.57	1.26	CPFI-UG88-5
3	Plug	Twist-On, Field Installable, 50Ω	RG-59, 62	367-1029-ND	3.87	3.52	2.82	CPFI-RA-2
4	Jack	Front-Mnt. Bulkhead Jack w/ Solder Tab, 50Ω	—	367-1019-ND	1.05	.95	.76	CP-1094-AST
5	Jack	Front-Mnt. Bulkhead Jack w/out Solder Lug, 50Ω	—	367-1020-ND	1.00	.92	.73	CP-1094-U
		Front-Mnt. Bulkhead Jack with Solder Lug, 50Ω	—	367-1021-ND	1.05	.95	.76	CP-1094-UL
6	Jack	Straight Twist-On Jack, 50 Ohm	RG-59, 62	367-1036-ND	1.99	1.81	1.45	CPFI-UG89-2
7	Jack	Crimp-Type Jack, Push-On Body, 50Ω	RG-59, 62	367-1007-ND	1.46	1.33	1.07	CP-89-2
			RG-6	367-1008-ND	1.62	1.48	1.18	CP-89-5
Type F								
8	Plug	Crimp Plug	RG-6	367-1022-ND	.28	.26	.21	CPF-56-ALM
			RG-6 Quad Shield	367-1023-ND	.32	.30	.24	CPF-56-ALS
			RG-59	367-1025-ND	.27	.25	.20	CPF-59-ALM
9	Plug	Twist-On Plug (no Crimp)	RG-6	367-1027-ND	.25	.23	.19	CPFI-56
TNC								
10	Plug	Crimp-Type Plug Solder or Crimp	RG-58, 141	367-1056-ND	1.52	1.38	1.11	CPMC-TNC-1
			RG-142, 223, 400, 55	367-1057-ND	1.72	1.57	1.26	CPMC-TNC-13
			RG-8X (MINI 8)	367-1058-ND	1.70	1.55	1.24	CPMC-TNC-17
Type N								
11	Plug	Crimp-Type Plug	RG-58	367-1059-ND	3.24	2.95	2.36	CPN-1
			RG-142, TFE	367-1060-ND	3.34	3.04	2.44	CPN-142T
			RG-8, 213	367-1061-ND	3.40	3.09	2.47	CPN-8
UHF								
12	Plug	Solder-Type, Standard	RG-8, 213	367-1010-ND	1.41	1.29	1.03	CP-AD-250
13	Plug	Crimp-Type, Crimp Contact	RG-58	367-1037-ND	.99	.91	.73	CPL-259-1
			RG-8	367-1039-ND	1.23	1.12	.90	CPL-259-8
			RG-8X (MINI 8)	367-1041-ND	1.05	.95	.76	CPL-259-17
14	Plug	Crimp-Type, Crimp Contact, Double Nut	RG-58	367-1042-ND	1.57	1.43	1.14	CPL-259-18
Mini-UHF								
15	Plug	Crimp-Type, Solder or Crimp Contact	RG-58	367-1064-ND	1.08	.98	.79	MINI-UHF-1
			RG-8X (MINI 8)	367-1066-ND	1.08	.98	.79	MINI-UHF-17

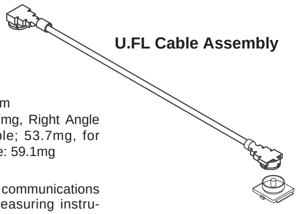
* For 10 gauge wire

Fig.	Description	Digi-Key Part No.	Price Each			Cambridge Part No.
			1	25	50	
Adapters						
F In-Series						
16	Jack to Jack Adapter, 3/4" In-line Splice	367-1026-ND	.24	.22	.18	CPF-81
BNC						
17	Jack to Jack Adapter	367-1015-ND	1.20	1.10	.88	CP-AD-555
18	Bulkhead Jack to Jack Adapter with Lock Washer	367-1016-ND	1.78	1.62	1.30	CP-AD-556M
Between Series						
19	UHF Plug to SMA Jack	367-1009-ND	5.96	5.42	4.34	CP-AD-215
20	N Plug to SMA Jack	367-1017-ND	6.06	5.51	4.41	CP-AD-810
21	N Jack to SMA Jack	367-1018-ND	6.14	5.59	4.47	CP-AD-819
22	BNC Plug to F Jack	367-1014-ND	1.69	1.54	1.24	CP-AD-516
23	BNC Jack to RCA Plug	367-1012-ND	1.15	1.05	.84	CP-AD-501
24	BNC 50 Ohm Plug to RCA Jack	367-1013-ND	.99	.91	.73	CP-AD-515

HIROSE ELECTRIC CO.,LTD. Hirose - *A Leading Company of Wireless LAN Connectors*

U.FL SMD Ultra-Miniature Coaxial Connectors and Assemblies

U.FL Series: Industry Standard for Bluetooth and Wireless LAN (World's Smallest and Lightest Coaxial Connectors, meeting frequencies up to 6GHz)



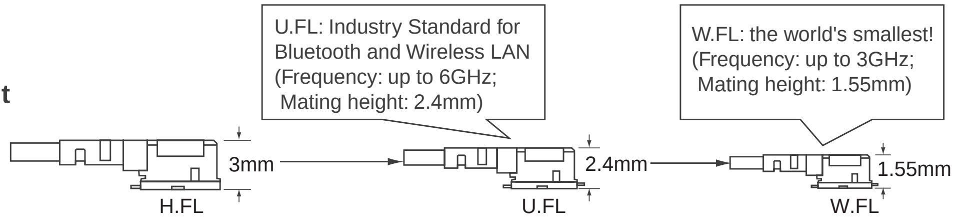
FEATURES:
- Mating Height: Only 2.4mm
- Weight: Receptacle: 15.7mg, Right Angle Plugs for ø0.81mm cable; 53.7mg, for ø1.13 and ø1.32mm cable: 59.1mg

APPLICATIONS:
- Mobile phones, wireless communications equipment, electronic measuring instruments, GPS, wireless LAN, Bluetooth, etc.

U.FL Cable Assemblies
(See Pricing Below)

Part Number	Shield	Cable Diameter (mm)	Cable Length (mm)	Mating Height (mm)	Frequency (Ghz)
With 5010 Cable					
U.FL-2LP-04-A-(200) (500)	Single	0.81	200 500	2.4	3
With 5016 Cable					
U.FL-2LP-5016-A-(200) (500)	Single	1.13	200 500	2.4	6
With 066 Cable					
U.FL-2LP-066-A-(200) (500)	Double	1.32	200 500	2.4	6

Mating Height


U.FL: Industry Standard for Bluetooth and Wireless LAN (Frequency: up to 6GHz; Mating height: 2.4mm)
W.FL: the world's smallest! (Frequency: up to 3GHz; Mating height: 1.55mm)
3mm
2.4mm
1.55mm
H.FL
U.FL
W.FL

Required Board Space for Receptacle

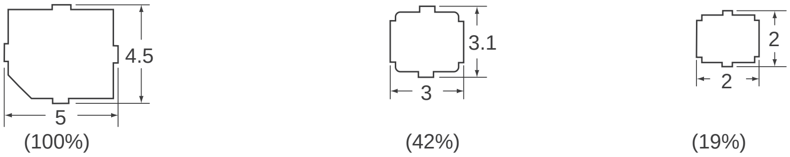


Fig. 1

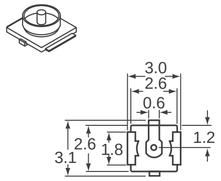


Fig. 2

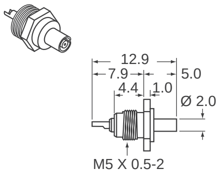


Fig. 3

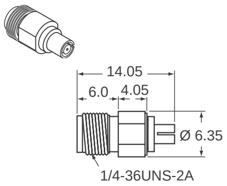


Fig. 4

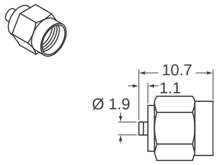


Fig. 5

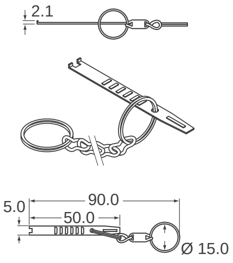
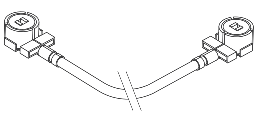


Fig. 6



FEATURES:
- Extremely Small Board Occupation resulting in an area of just 7.7mm^2
- Mating Height from the printed circuit board when it mates a receptacle with a (right angle) plug is 2.5mm maximum
- These are the world's lightest coaxial connector meeting frequencies up to 6GHz. Receptacle: 15.7mg, Right Angle Plugs for ø0.81mm cable; 53.7mg, for ø1.13 and ø1.32mm cable: 59.1mg
- To meet the frequency requirements of a wide variety of miniature equipment, these connectors offer high frequency performance from DC to 6GHz
- The embossed tape packaging of the receptacles permits automatic mounting
- The extraction tool permits simple removal of the connectors
- Mating checks are made easy with the lock sensation it permits a check of sure mating

APPLICATIONS:
- Mobile phones
- Wireless communications equipment
- Electronic measuring instruments
- GPS
- Wireless LAN
- Bluetooth

SPECIFICATIONS:
- Nominal characteristic impedance: 50Ω
- Rated voltage: 60VAC (rms)
- Rated frequency: DC to 6GHz
- Operating Temperature Range: -40°C to +90°C
- Operating humidity: 90% max.
- Contact resistance: Center: 20mΩ max.; Outside: 10mΩ max.
- Insulation Resistance: 500MΩ min.
- V.S.W.R.: 1.3 max.

MATERIAL AND FINISH:
- Shell: Phosphor bronze, silver plating
- Center contact (male): Brass, gold plating
- Center contact (female): Phosphor bronze, gold plating
- Insulator: Plug: PBT, black, UL94V-0; Receptacle: LCP, beige, UL94V-0

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
			U.FL Series				
1	Receptacle Coaxial SMD	H9161-ND	1.48	1.21	.98	.88	U.FL-R-SMT(01)
		H9161TR-ND	854.20/2,500		1675.54/5,000		U.FL-R-SMT(10)
2	Inspection Receptacle	H9160-ND	21.42	20.71	19.28	18.57	U.FL-R-1
3	Adapter Side U.FL Plug/SMA Side Jack	H9158-ND	23.48	22.70	21.13	20.35	HRMJ-U.FLP
4	Adapter Side U.FL Jack/SMA Side Plug	H9157-ND	19.35	18.71	17.42	16.77	HRMP-U.FLJ
5	Removal Tool	H9159-ND	24.11	23.31	21.70	20.90	U.FL-LP-N-2
			Cable Assemblies				
6	UFL/UFL 200mm, 0.81mm Diameter	H9162-ND	8.55	7.24	6.09	5.43	U.FL-2LP-04-A-(200)
	UFL/UFL 500mm, 0.81mm Diameter	H9163-ND	8.44	7.34	6.61	5.88	U.FL-2LP-04-A-(500)
	UFL/UFL 200mm, 1.13mm Diameter	H9166-ND	8.74	7.40	6.22	5.55	U.FL-2LP-5016-A-(200)
	UFL/UFL 500mm, 1.13mm Diameter	H9167-ND	8.79	7.64	6.88	6.12	U.FL-2LP-5016-A-(500)
	UFL/UFL 200mm, 1.32mm Diameter	H9164-ND	8.79	7.44	6.26	5.58	U.FL-2LP-066-A-(200)
	UFL/UFL 500mm, 1.32mm Diameter	H9165-ND	8.92	7.76	6.99	6.21	U.FL-2LP-066-A-(500)

HIROSE ELECTRIC CO.,LTD.

NEW! W.FL Series Connectors

World's Lowest Profile, Ultra Small Coaxial Connectors (1.55mm Stacking Height)

Fig. 1

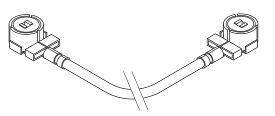


Fig. 2

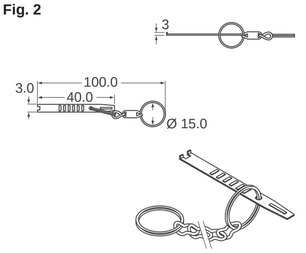


Fig. 3

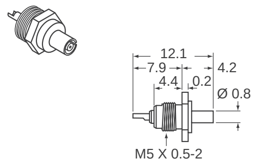
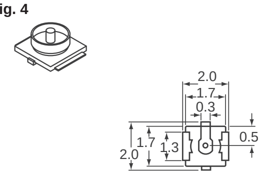


Fig. 4



Applications:
• Mobile phones • Wireless PDA's • Wireless LAN • Bluetooth communication protocol • Wireless communication equipment • GPS • etc.

Performance	Standard	Conditions
Characteristic Impedence	50Ω	—
Insulation Resistance	500MΩ or greater	100VDC
Withstanding Voltage	200VAC	1 Minute
Contact Resistance	Inner 20MΩ, Outer 10MΩ or less	100mA or less
V.S.W.R.	V.S.W.R. 1.3 or less	Up to 3GHz

Part	Material	Finish
Outer Conductor	Phosphor Bronze	Silver Plating
Inner Conductor	Phosphor Bronze, Brass	Gold Plating
Insulator	PBT, LCP	—

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Ultra Cable Assembly, 100mm	H9168-ND	8.24	6.98	5.87	W.FL-2LP-04-A-(100)
1	Ultra Cable Assembly, 500mm	H9170-ND	8.23	7.16	6.45	W.FL-2LP-04-A-(500)
1	Ultra Cable Assembly, 1000mm	H9169-ND	9.61	8.36	7.53	W.FL-2LP-04-A-(1000)
2	Extraction Tool for W.FL Series	H9171-ND	83.37	—	—	W.FL-LP-N
3	Inspection Receptacle	H9172-ND	23.84	23.05	21.46	W.FL-R-1
4	Ultra Low Coax SMD Receptacle	H9173CT-ND	1.48	1.21	.98	W.FL-R-SMT(10)
4	Ultra Low Coax SMD Receptacle	H9173TR-ND	1014.00/2,000			W.FL-R-SMT(10)

Miniature RF Connectors

Fig. 1

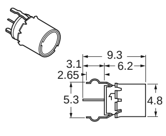


Fig. 2

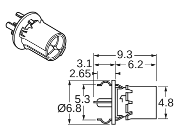


Fig. 3

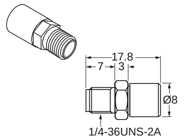


Fig. 4

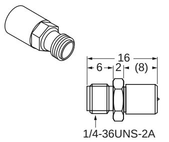


Fig. 5

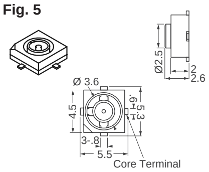


Fig. 6

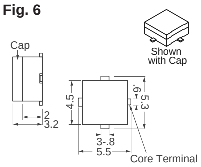


Fig. 7

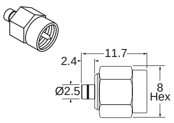


Fig. 8

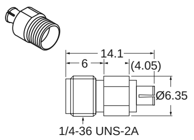


Fig. 9

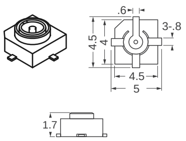


Fig. 10

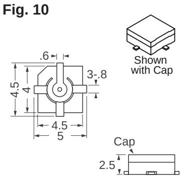


Fig. 11

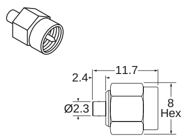


Fig. 12

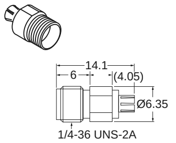


Fig. 13

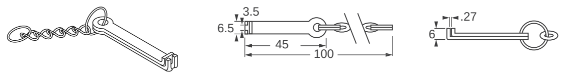


Fig. 14 **Double End**

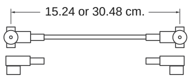
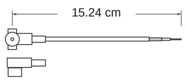


Fig. 15 **Single End**



FL (Finger-Lock) Series Coaxial Connectors:

Low-profile microminiature high-frequency connectors. The FL Series connectors are low-profile micro-miniature coaxial connectors intended for high-density packaging of components on printed circuit boards. The FL Series is ideal for high-density circuit board wiring in signal transmission applications at high frequencies up to 1GHz.
Features: High-level matching: Maximum V.S.W.R is only 1.2 at frequencies up to 1GHz.
Applications: Typical applications include cellular telephones, radio communications equipment, electronic measuring instruments, CATV, control units, etc.
Material and Finish: • Shell: Brass or phosphor bronze, silver plating • Center contact (male): Brass, gold plating • Center contact (female): Phosphor bronze, gold plating • Insulation: Polybutylene terephthalate (PBT), black.
Performance Characteristics: • Characteristic impedance: 50Ω • Insulation resistance: 1000MΩ or more (at 250VDC) • Contact resistance: 10mΩ or less for both center and outer conductors (at 1 ADC) • Withstanding voltage: 250VAC (rms) for one minute • Coupling/removal force: 300 gf of more • Life of contacts: 50 times of use

S.FL2 Series Coaxial Connectors:

S.FL2 (Super FL Type 2 Coaxial Connector) Series is a surface mount, low profile, miniature coaxial connector intended for high density packaging. Compared to Hirose's FL Series connectors, the S.FL2 Series offers a 50% reduced profile when assembled, achieving increased density of internal wiring for high frequency transmission applications.
Features: Highly flexible, offers high frequency performance below V.S.W.R 1.2 over 0-2000MHz range.

H.FL Series Coaxial Connectors:

The H.FL connectors have a lower profile, with a mounted height of approximately 30% that of our S.FL2 connectors. They occupy 20% less board space, allowing higher density internal wiring.
Features: • High frequency response of V.S.W.R 1.3 or less from D.C. to 3000MHz.
Material and Treatment: • Shell: Phosphor bronze, silver plating • Insulator: PBT plastic (plug side), black; Liquid crystal polymer (receptacle side), black • Male center contact: Bronze, gold plating • Female center contact: Phosphor bronze, gold plating.
Performance Characteristics: • Characteristic impedance: 50Ω • Insulation resistance: 500MΩ or greater at DC 250V • Contact resistance: 20mΩ (center), 10mΩ (exterior) at DC 10mA • Dielectric strength: AC 300V (r.m.s), 1 minute • Contact service life: 50 times • Voltage standing wave ratio: 1.3 or less, DC to 3000MHz (target value)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	FL Series					
1	Receptacle PC MT	H9142-ND	2.67	2.33	1.65	FL-R-PC(1)
2	Receptacle with Washer	H9143-ND	3.77	3.29	2.33	FL-R-PC(3)
3	Adapter Plug/SMA Plug	H9144-ND	42.95	40.81	38.35	HRMJ-FLJ
4	Adapter Receptacle/SMA Plug	H9145-ND	37.46	36.21	32.47	HRMJ-FLP-1
13	Removal Tool (FL Series)	H9146-ND	24.62	—	—	FL-LP-N
14	6" (15.24cm) FL/FL Series Cable Assembly	229-1000-ND	12.03	11.28	10.34	4189-06
14	12" (30.48cm) FL/FL Series Cable Assembly	229-1001-ND	12.54	11.76	10.78	4189-12
14	12" (30.48cm) FL/SMA Series Cable Assembly	229-1002-ND	23.36	21.90	20.08	4192-12
15	6" (15.24cm) FL Single End Cable Assembly	229-1003-ND	8.80	8.25	7.57	4191-06
	S.FL2 Series					
5	Receptacle Coaxial SMT	H9152-ND	2.85	2.38	1.76	S.FL2-R-SMT(01)
6	Receptacle Coaxial with Cap SMT	H9153CT-ND	2.71	2.26	1.67	S.FL2-R-SMT(C)(10)
6	Receptacle Coaxial with Cap SMT	H9153TR-ND	2776.38/2,500			S.FL2-R-SMT(C)(10)
7	Adapter Plug/SMA Jack	H9154-ND	24.63	23.81	21.35	HRMP-S.FLJ
8	Adapter Jack/SMA Plug	H9155-ND	32.82	31.73	28.45	HRMJ-S.FLP
13	Removal Tool (S.FL2 Series)	H9156-ND	37.46	—	—	S.FL-LP-N
14	6" (15.24cm) S.FL2/S.FL2 Cable Assembly	229-1008-ND	11.36	10.65	9.77	2189-06
14	12" (30.48cm) S.FL2/S.FL2 Cable Assembly	229-1009-ND	12.70	11.91	10.92	2189-12
14	12" (30.48cm) S.FL2/SMA Cable Assembly	229-1010-ND	32.32	30.30	27.78	2192-12
15	6" (15.24cm) S.FL2 Single End Cable Assembly	229-1011-ND	8.48	7.95	7.29	2191-6
	H.FL Series					
9	Receptacle Coaxial SMT	H9147-ND	1.98	1.65	1.22	H.FL-R-SMT(01)
10	Receptacle Coaxial with Cap SMT	H9148CT-ND	2.08	1.73	1.28	H.FL-R-SMT(C)(10)
10	Receptacle Coaxial with Cap SMT	H9148TR-ND	2128.00/2,500			H.FL-R-SMT(C)(10)
11	Adapter Jack/SMA Plug	H9150-ND	20.90	20.20	18.11	HRMP-H.FLJ
12	Adapter Plug/SMA Jack	H9149-ND	28.47	27.53	24.68	HRMJ-H.FLP-3
13	Removal Tool (H.FL Series)	H9151-ND	35.55	—	—	H.FL-LP-N
14	6" (15.24cm) H.FL/H.FL Series Cable Assembly	229-1004-ND	10.62	9.96	9.13	1189-06
14	12" (30.48cm) H.FL/H.FL Series Cable Assembly	229-1005-ND	11.97	11.22	10.29	1189-12
14	12" (30.48cm) H.FL/SMA Cable Assembly	229-1006-ND	31.01	29.07	26.65	1192-12
15	6" (15.24cm) H.FL Single End Cable Assembly	229-1007-ND	7.87	7.38	6.77	1191-06

HIROSE ELECTRIC CO.,LTD.

Coaxial Switching Connector

MS-145 Series

Fig. 1

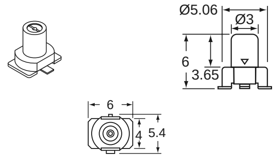


Fig. 2

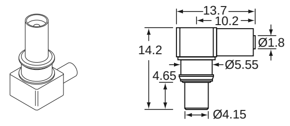


Fig. 3

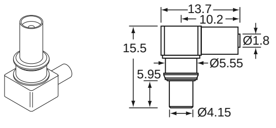


Fig. 4

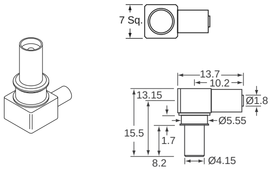


Fig. 5

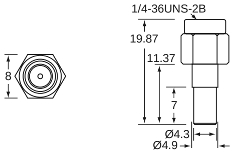


Fig. 6

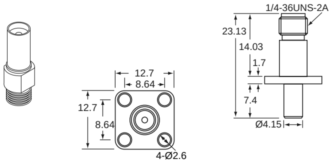
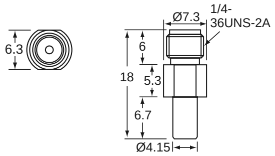
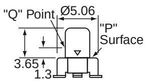


Fig. 7



Plug Applications



Designed as interface coaxial switches, and other applications requiring redirecting of signals when mating with corresponding plugs. The mating action redirects the signals from the receptacle side to the plug side.

Features:

- **Frequency Range:** From DC to 2.5GHz and with GSM, PCS, cdma-One, W-CDMA, etc.
- **Low Profile:** Low protrusion of only 6mm above the mounting surface (receptacle).
- **Durability:** High durability (mating/unmating) of 10,000 cycles. Self alignment of mating parts. Inducement to floating is +/-0.5mm.
- Engages by pushing up to the 5.06mm diameter shoulder (P surface) of the MS-145 (MS-145-C(LP)-1 engages up to a position (Q point) of 1.3mm from the 5.06mm diameter shoulder of the MS-145).

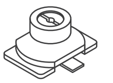
Applications:

- Mobile phone antenna switching
- Checks of microwave boards, etc.

Fig.	Description	Effect. Engage. Length (mm)	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Interface Coaxial Switch Receptacle	—	H2803CT-ND	1.98	1.53	1.22	MS-145(06)
1	Interface Coaxial Switch Receptacle	—	H2803TR-ND	811.00/1,000			MS-145(06)
2	Plug	0.82	H2804-ND*	15.87	14.82	13.76	MS-145-C(LP)-1
3	Plug	1.32	H2805-ND*	22.94	21.41	19.88	MS-145-C(LP)-A
4	Plug	1.32	H2806-ND*	15.66	14.62	13.58	MS-145-C(LP)-MI
5	SMA Adaptor to Male	1.32	H2807-ND	19.86	18.54	17.22	MS-145-HRMP-A
6	SMA Adaptor to Female, Panel Mount	0.82	H2808-ND	27.65	25.81	23.96	MS-145-HRMJ
7	SMA Adaptor to Female, Straight	1.32	H2809-ND	19.86	18.54	17.22	MS-145-HRMJ-A-D

* Applicable cable for plugs: 1.5D-HQEW or 1.5D-QEW (manufactured by Fujikura Ltd.).

Coaxial Switching Connector MS-147 Series



The switching function is accomplished by mating with the corresponding plug. The transmission is redirected from normal direction to the plug assembly. The surface mounted receptacle protrudes above the board 3.9mm. The MS147 has an insertion loss of 0.15dB.

Characteristics: Impedance of 50 Ohm, isolation of 25dB min (DC-2.0GHz) and 20dB (2.0GHz to 2.5GHz). Self-aligning within 0.5mm and with a guaranteed durability of 12,000 mating/unmating cycles.

Applications: Most mobile phones and circuit testing applications.

Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Interface Coaxial Switching Receptacle	H2800CT-ND	1.95	1.50	1.20	MS-147(06)
Interface Coaxial Switching Receptacle	H2800TR-ND	1177.50/1,500			MS-147(06)
Mating Adapter	H2801-ND	20.18	18.83	17.49	MS-147-HRMJ-1
Mating Cable Assembly	H2802-ND	19.67	18.36	17.05	MS-147-C(LP)-1

Ultra Miniature Snap-On Coaxial Connector

PC Card Type II Mountable MMCX Type

Fig. 1

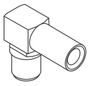


Fig. 2

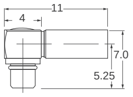


Fig. 3

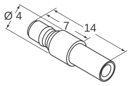


Fig. 4

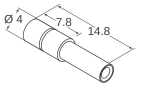


Fig. 5

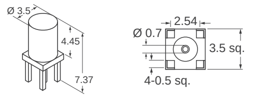
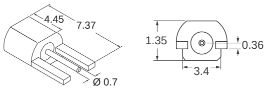


Fig. 6



FEATURES: Snap-on coupling mechanism makes it easy to engage and disengage. Low profile accommodates PCMCIA type II cards. The MMCX-LR-SMT only 3.51mm mounted on the bottom of the type II card. Designed for ultra thin cable. Industry Standard RG-type coaxial cable. RG-178B/U (ø1.8), RG-316/U (ø2.59 max.) ø1.48 single shielded cable (one of the smallest available). CO-6F-FH-SB (ø1.48) made by Hitachi Cable Ltd. Campatibility mates with all industry standard MMCX connectors.

SPECIFICATIONS: • Nominal characteristic impedance: 50Ω. • **Operating Temperature Range:** -55ºC~+85ºC • **Rated Frequency:** DC-6GHz • **Insulation Resistance:** 500MΩ min. • **Contact Resistance:** 10mΩ max.(center), 5mΩ max. (outer)

MATERIAL: • **Body:** Brass with gold plating • **Male center contact:** Phosphor bronze with gold plating • **Female Center Contact**: Beryllium bronze with gold plating • **Insulator:** PTFE. **Fixing Ring:** Beryllium copper (plug) with nickel plating • **Crimp Sleeve:** Copper with gold plating • **Cover:** Brass (plug) with gold plating

Fig.	Cable Type	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	Right Angle Plug					
1	CO-6F-FH-SB (1.48) Single Shielded	H3220-ND	11.45	9.96	7.97	MMCX-LP-FHSB
	RG-178B/U Type Coaxial Cable	H3221-ND	10.67	9.28	7.43	MMCX-LP-178B/U
2	RG-316/U Type Coaxial Cable	H3222-ND	10.51	9.14	7.32	MMCX-LP-316/U
	Straight Plug					
3	CO-6F-FH-SB (1.48) Single Shielded	H3223-ND	8.49	7.38	5.91	MMCX-P-FHSB
	RG-178B/U Type coaxial cable	H3224-ND	8.87	7.51	5.63	MMCX-P-178B/U
	Straight Jack					
4	CO-6F-FH-SB (1.48) Single Shielded	H3225-ND	8.95	7.78	6.23	MMCX-J-FHSB
	RG-178B/U Type Coaxial Cable	H3226-ND	8.17	7.10	5.68	MMCX-J-178B/U
	Receptacle					
5	Vertical, PCB Through Hole	H3227-ND	10.10	9.35	7.83	MMCX-R-PC
6	Right Angle, PCB Surface Mount	H3228-ND	11.32	9.84	7.88	MMCX-LR-SMT

KEYSTONE

Standardized Phono-plugs

Fig. 1

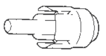


Fig. 2

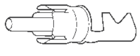


Fig. 3

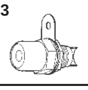


Fig. 4

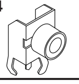


Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
1	Conventional Type	561K-ND	.55	4.55	41.09
2	Strain Relief Lug Crimps to Wire Insulation	565K-ND	.74	6.12	52.43
3	Panel Mount Jack Hex Base Type	576K-ND	1.82	15.07	134.21
4	Snap-Fit 90° PC Phono Jack	901K-ND	1.15	9.50	85.59

Switchcraft®

Audio Connectors and Couplers

Fig. 1

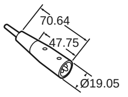


Fig. 2

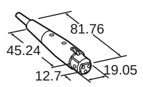


Fig. 3

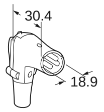


Fig. 4

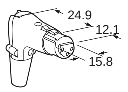


Fig. 5

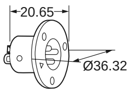


Fig. 6

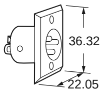


Fig. 7

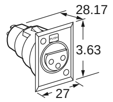


Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Mfg. Part No.
1	Plug Male Straight 3 pos Satin Nickel Finish	SC1003-ND	4.96	3.72	3.41	A3M
	Plug Male Straight 3 pos Black w/Silver Contacts	SC1004-ND†	4.96	3.72	3.41	A3MB
	Plug Male Straight 4 pos Satin Nickel Finish	SC1014-ND	5.72	4.29	3.93	A4M
	Plug Male Straight 5 pos Satin Nickel Finish	SC1022-ND	10.08	7.56	6.93	A5M
2	Plug Female Straight 3 pos Satin Nickel Finish	SC1001-ND	5.60	4.20	3.85	A3F
	Plug Female Straight 3 pos Black w/Silver Contacts	SC1002-ND†	5.60	4.20	3.85	A3FB
	Plug Female Straight 4 pos Satin Nickel Finish	SC1013-ND	7.80	5.85	5.36	A4F
	Plug Female Straight 5 pos Satin Nickel Finish	SC1021-ND	12.72	9.54	8.75	A5F
3	Plug Male Rt. Angle 3 pos Satin Nickel Finish	SC1012-ND	14.68	11.01	10.09	R3M
4	Plug Female Rt. Angle 3 pos Satin Nickel Finish	SC1011-ND	15.92	11.94	10.95	R3F
5	Receptacle Male Panel Mount 3 pos Satin Nickel Finish	SC1008-ND	6.00	4.50	4.13	C3M
6	Receptacle Male Narrow Panel Mount 3 pos Satin Nickel Finish	SC1010-ND	4.68	3.51	3.22	D3M
6	Receptacle Male Narrow Panel Mount 4 pos Satin Nickel Finish	SC1020-ND	5.56	4.17	3.82	D4M
6	Receptacle Male Narrow Panel Mount 5 pos Satin Nickel Finish	SC1028-ND	9.84	7.38	6.77	D5M
7	Receptacle Female Narrow Panel Mount 3 pos Satin Nickel Finish	SC1009-ND	6.32	4.74	4.35	D3F
7	Receptacle Female Narrow Panel Mount 4 pos Satin Nickel Finish	SC1019-ND	8.96	6.72	6.16	D4F
7	Receptacle Female Narrow Panel Mount 5 pos Satin Nickel Finish	SC1027-ND	14.48	10.86	9.96	D5F

† "Black Velvet" (Electrically Conductive Chrome Plate)

1/4” (6.35mm) Plugs, Jacks and Audio Adapters

Fig. 1

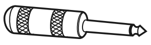


Fig. 2

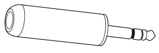
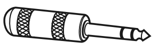


Fig. 3



Dimensions for Figures 1-3

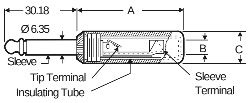
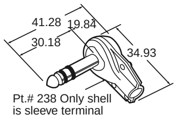


Fig. 4



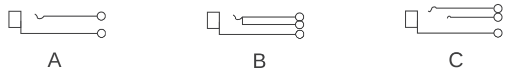


Fig. 5

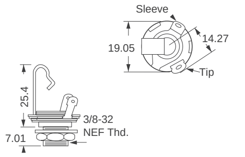


Fig. 6

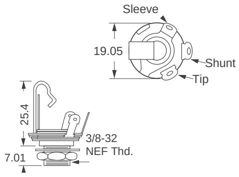


Fig.	Description	Mates With	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	25	Switchcraft Part No.
1/4” (6.35mm) “Littel Plugs” Two Conductor Phone Plugs										
1	Shielded with Solder Lug and Cable Clamp	11	42.88	7.54	12.70	SC1075-ND	3.96	29.70	68.00	280
1/4” (6.35mm) “Littel Plugs” Three Conductor Phone Plugs										
2	Black with Solder Lug and Cable Clamp	12B	42.88	7.54	12.70	SC1081-ND	4.52	33.90	77.75	267
3	Shielded with Solder Lug and Cable Clamp	12B	42.88	7.54	12.70	SC1084-ND	5.36	40.20	92.25	297
1/4” (6.35mm) Right Angle Flat, Two Conductor Type Phone Plugs										
4	Shielded with Solder Lugs	11	—	—	—	SC1068-ND	4.40	33.00	75.75	228
1/4” (6.35mm) Right Angle Flat, Three Conductor Type Phone Plugs										
4	Shielded with Solder Lugs	12B	—	—	—	SC1069-ND	5.68	42.60	97.75	238

Fig. 7

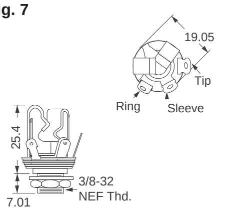


Fig. 8

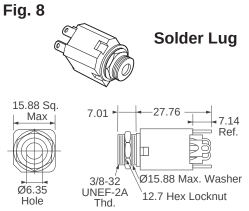


Fig. 9

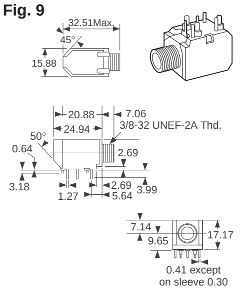


Fig. 10

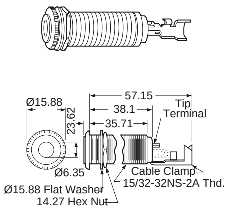


Fig. 11

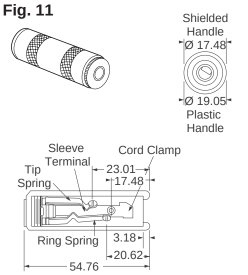


Fig. 12

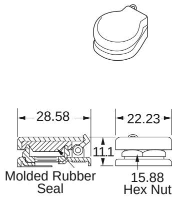
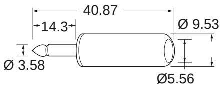


Fig.	Sche-matic	Description	Digi-Key Part No.	Pricing 1	10	25	Switchcraft Part No.
1/4” (6.35mm) “Littel Jax,” Two Conductor Phone Jacks							
5	A	Phone Jack 1/4” (6.35mm), Open Circuit	SC1085-ND	2.00	15.00	34.50	11
6	B	Phone Jack 1/4” (6.35mm), Tip Shunt	SC1089-ND	2.00	15.00	34.50	12A
1/4” (6.35mm) “Littel Jax,” Three Conductor Phone Jacks							
7	C	Phone Jack Double Open Circuit	SC1094-ND	2.08	15.60	35.75	12B
1/4” (6.35mm) Two Conductor Jacks with Solder Lug Terminals							
8	A	Phone Jack Enclosed Insulated Bushing	SC1103-ND	2.24	16.80	38.50	N111
	B	Phone Jack Enclosed Single Closed Circuit	SC1104-ND	1.92	14.40	33.00	112A
1/4” (6.35mm) Two Conductor Jacks with PC Terminals							
9	A	Phone Jack Right Angle Single Open Circuit	SC1121-ND	1.76	13.20	30.25	RN111PC
	B	Phone Jack Right Angle Single Closed Circuit	SC1122-ND	2.00	15.00	34.50	RN112APC
1/4” (6.35mm) Three Conductor Jacks with Solder Lug Terminals							
8	C	Phone Jack Enclosed Double Open Circuit	SC1107-ND	1.96	14.70	33.75	112B
1/4” (6.35mm) Three Conductor Jacks with PC Terminals							
9	C	Phone Jack Right Angle Double Open Circuit	SC1123-ND	2.16	16.20	37.25	RN112BPC
1/4” (6.35mm) “TP-Jax” Thick-Panel Phone Jacks							
10	A	2 Conductor, Open Circuit	SC1034-ND	6.32	47.40	108.75	151
	C	3 Conductor, Open Circuit	SC1035-ND	6.96	52.20	119.50	152B
“Extension-Jax” 1/4” (6.35mm) Cable Extension Jacks							
11	—	In Line 3 Conductor Shielded Handle Screw Terminals	SC1042-ND	8.44	63.30	145.00	1230
Jack Cover							
12	—	Jack Cover Black with Hardware	SC1101-ND	7.44	55.80	128.00	515

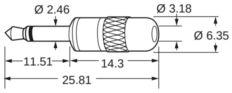
Switchcraft® Phone, Power and Phono Plugs and Jacks

Fig. 1



3.5mm Plug

Fig. 2



2.5mm Plug

Fig. 3

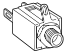
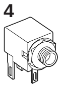


Fig. 4



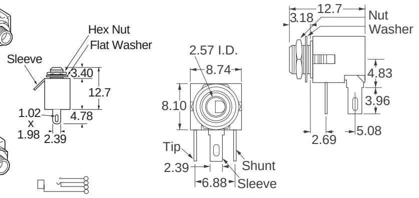
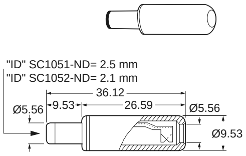


Fig. 5



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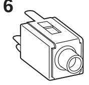
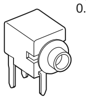


Fig. 7



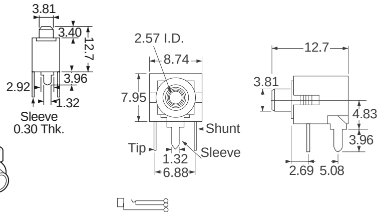
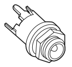
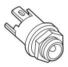


Fig. 8



PCB Term.

Fig. 9



Solder Lug Term.

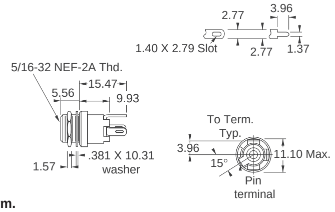


Fig. 10

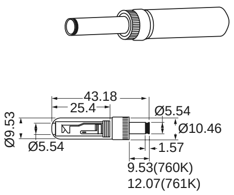


Fig. 11

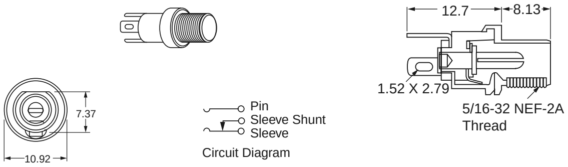


Fig. 12

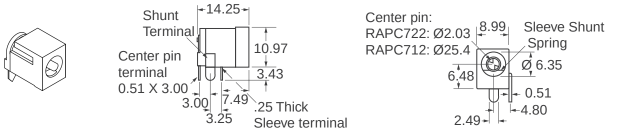


Fig. 13

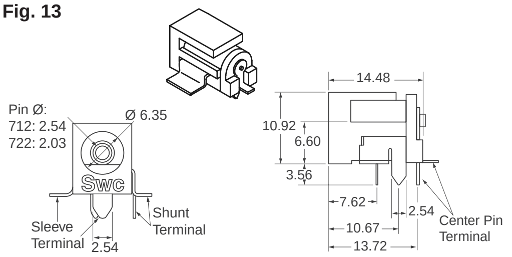


Fig. 14

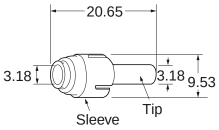


Fig. 15

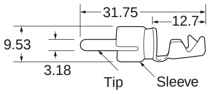


Fig. 16

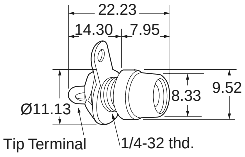


Fig. 17

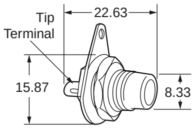
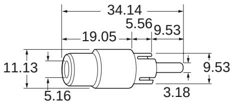


Fig. 18



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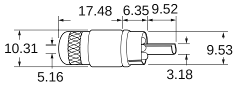

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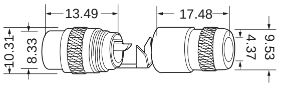
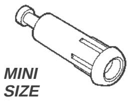


Fig.	Mates With	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
		"Tini Plug" Miniature Phone Plugs					
1	41	.141" (3.58mm) Black w/ Screw Terminals	SC1053-ND	3.12	2.34	2.15	740
	41	.141" (3.58mm) Black w/ Solder Lug & Cable Clamp	SC1055-ND	3.04	2.28	2.09	750
	41	.141" (3.58mm) Red w/ Solder Lug & Cable Clamp	SC1056-ND	3.04	2.28	2.09	755
	41	.141" (3.58mm) Shielded w/ Solder Lug & Cable Clamp	SC1057-ND	4.12	3.09	2.83	780
		"Micro-plug" Subminiature Phone Plugs					
2	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Black w/ Solder Lugs	SC1058-ND	3.08	2.31	2.12	850
	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Red w/ Solder Lugs	SC1059-ND	3.08	2.31	2.12	855
	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Natural w/ Solder Lugs	SC1060-ND	3.08	2.31	2.12	880
		"Micro-d Jax" Subminiature Enclosed Phone Jack					
3	850	Subminiature 2 Cond Closed Circuit Solder Lug	SC1043-ND	2.04	1.53	1.40	MDSL2A
6	850	Subminiature 2 Cond Closed Circuit PCB	SC1044-ND	2.04	1.53	1.40	MDPC2A
4	850	Subminiature Rt. Angle 2 Cond Solder Lug	SC1045-ND	2.28	1.71	1.57	MDSL2ARA
7	850	Subminiature Rt. Angle PCB	SC1046-ND	2.28	1.71	1.57	MDPC2ARA
		Power Plugs					
5	712A	Power Plug .1" Black Handle (2.5 mm Dia.)	SC1051-ND	2.92	2.19	2.01	760
5	722A	Power Plug .08" Black Handle (2.1 mm Dia.)	SC1052-ND	2.92	2.19	2.01	S760
10	L712A	Conn Power Plug Locking 2.5 mm Blk	SC1148-ND	4.24	3.18	2.92	761K
10	712A	Conn Power Plug Locking 2.5 mm Blk	SC1149-ND	4.24	3.18	2.92	760K
		Power Jacks					
8	760K	Panel Mount Jack .1" Dia. PC Terminals (2.5 mm Dia.)	SC1050-ND	2.92	2.19	2.01	PC712A
8	S760K	Panel Mount Jack .08" Dia. (2.1 mm Dia.)	SC1047-ND	2.92	2.19	2.01	PC722A
9	760	Panel Mount Jack .1" Dia., Solder Lug (2.5 mm Dia.)	SC1048-ND	2.92	2.19	2.01	712A
9	S760	Panel Mount Jack .08" Dia., Solder Lug (2.1 mm Dia.)	SC1049-ND	2.92	2.19	2.01	722A
11	761K	Conn Power Jack 2.5 mm Panel Mount Long	SC1150-ND	4.00	3.00	2.75	L712A
	S761K	Conn Power Jack 2.1 mm Panel Mount Long	SC1151-ND	4.00	3.00	2.75	L722A
12	760	Conn Power Jack Right Angle PCB 2.5 mm	SC1152-ND	1.08	.81	.74	RAPC712
	S760	Conn Power Jack Right Angle PCB 2.1 mm	SC1153-ND	1.08	.81	.74	RAPC722
13	760	Conn Power Jack Hybrid SMT 2.5 mm	SC1154-ND	1.20	.90	.83	RASH712
	S760	Conn Power Jack Hybrid SMT 2.1 mm	SC1155-ND	1.20	.90	.83	RASH722

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	100	Switchcraft Part No.
	Phono Jacks and Plugs						
14	Phono Plug 2 Cond	SC1131-ND	.52	.39	.36	.33	3501M
15	Phono Plug 2 Cond. w/ Cable Clamp	SC1132-ND	1.00	.75	.69	.63	3501MC
16	Phono Jack 2 Cond. Panel Mount	SC1133-ND	1.40	1.05	.96	.88	3501FP
—	Insulated Washer Flat For SC1133-ND	SC1144-ND	.34	.25	.23	.21	S-2207
—	Insulated Washer Extruded For SC1133-ND	SC1145-ND	.38	.28	.26	.24	S-1564
17	Phono Jack 2 Cond. Panel Mount w/ Hardware	SC1134-ND	1.76	1.32	1.21	1.10	3501FR
—	Insulated Washer Flat For SC1134-ND	SC1146-ND	.17	.13	.12	.11	S-1028
—	Insulated Washer Extruded For SC1134-ND	SC1147-ND	.38	.28	.26	.24	S-1029
18	Phono Plug 2 Cond, Red Cable Clamp	SC1135-ND	1.48	1.11	1.02	.93	3558-1
18	Phono Plug 2 Cond, Black Cable Clamp	SC1136-ND	1.48	1.11	1.02	.93	3558-2
19	Phono Plug 2 Cond, Shielded w/ Cable Clamp	SC1138-ND	1.96	1.47	1.35	1.23	3502
20	Phono Extension Jack 2 Cond, Shielded w/ Heavy Duty Clamp	SC1139-ND	2.76	2.07	1.90	1.73	3503

JOHNSON Components™

Plugs and Jacks

Fig. 1


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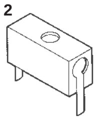


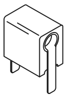
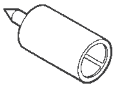
Fig. 3


Fig. 4


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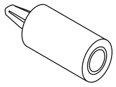
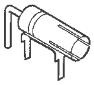


Fig. 6


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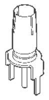

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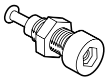

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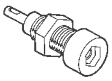

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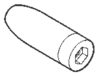

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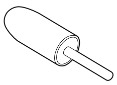

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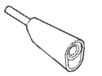

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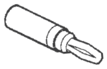

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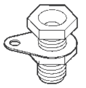

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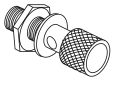

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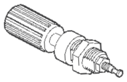

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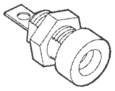

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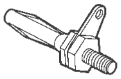

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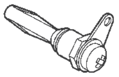

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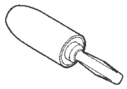

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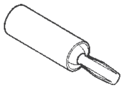

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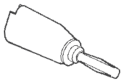


Fig.	Color	Digi-Key Part No.	Pricing						Johnson Part No.
			1	10	100	250	500	1,000	
Tip Jacks – for Standard Tip Plug: 2.03mm									
1	White	J330-ND	1.00	8.90	70.49	148.40	278.25	519.40	105-1041-001
	Red	J124-ND	1.00	8.90	70.49	148.40	278.25	519.40	105-1042-001
	Black	J125-ND	1.00	8.90	70.49	148.40	278.25	519.40	105-1043-001
	Green	J331-ND	1.00	8.90	70.49	148.40	278.25	519.40	105-1044-001
	Yellow	J333-ND	1.00	8.90	70.49	148.40	278.25	519.40	105-1047-001
	Blue	J126-ND	1.00	8.90	70.49	148.40	278.25	519.40	105-1050-001
Horizontal Test Jacks – for Standard Tip Plug: 2.03mm									
2	White	J108-ND	.36	3.19	25.27	53.20	99.75	186.20	105-0751-001
	Red	J109-ND*	.36	3.19	25.27	53.20	99.75	186.20	105-0752-001
	Black	J110-ND*	.36	3.19	25.27	53.20	99.75	186.20	105-0753-001
	Green	J111-ND	.36	3.19	25.27	53.20	99.75	186.20	105-0754-001
	Orange	J112-ND	.36	3.19	25.27	53.20	99.75	186.20	105-0756-001
	Yellow	J113-ND	.36	3.19	25.27	53.20	99.75	186.20	105-0757-001
	Brown	J114-ND	.36	3.19	25.27	53.20	99.75	186.20	105-0758-001
	Blue	J115-ND	.36	3.19	25.27	53.20	99.75	186.20	105-0760-001
	Violet	J116-ND	.36	3.19	25.27	53.20	99.75	186.20	105-0762-001
Horizontal Insulated Miniature Test Jacks – for Standard Tip Plug: 2.03mm									
3	White	J575-ND	.35	3.12	24.70	52.00	97.50	182.00	105-1101-001
	Red	J576-ND	.35	3.12	24.70	52.00	97.50	182.00	105-1102-001
	Black	J577-ND	.35	3.12	24.70	52.00	97.50	182.00	105-1103-001
	Green	J578-ND	.35	3.12	24.70	52.00	97.50	182.00	105-1104-001
	Yellow	J579-ND	.35	3.12	24.70	52.00	97.50	182.00	105-1107-001
	Blue	J580-ND	.35	3.12	24.70	52.00	97.50	182.00	105-1110-001
Vertical Test Jacks – for Standard Tip Plug: 2.03mm									
4	White	J119-ND	.54	4.82	38.19	80.40	150.75	281.40	105-0851-001
	Red	J120-ND	.54	4.82	38.19	80.40	150.75	281.40	105-0852-001
	Black	J121-ND	.54	4.82	38.19	80.40	150.75	281.40	105-0853-001
	Green	J122-ND	.54	4.82	38.19	80.40	150.75	281.40	105-0854-001
	Yellow	J123-ND	.54	4.82	38.19	80.40	150.75	281.40	105-0857-001
	Blue	J312-ND	.54	4.82	38.19	80.40	150.75	281.40	105-0860-001
Vertical Insulated Formed Contact Test Jacks – for Standard Tip Plug: 2.03mm									
5	White	J581-ND	.49	4.37	34.58	72.80	136.50	254.80	105-2201-201
	Red	J582-ND	.49	4.37	34.58	72.80	136.50	254.80	105-2202-201
	Black	J583-ND	.49	4.37	34.58	72.80	136.50	254.80	105-2203-201
	Green	J584-ND	.49	4.37	34.58	72.80	136.50	254.80	105-2204-201
	Yellow	J585-ND	.49	4.37	34.58	72.80	136.50	254.80	105-2207-201
	Blue	J586-ND	.43	3.86	30.59	64.40	120.75	225.40	105-2210-201
Shielded Test Jack – Horizontal									
6	Tin	J463-ND	3.65	32.47	257.07	541.20	1014.75	1894.20	129-0701-301
	Gold	J571-ND	4.50	39.50	291.06	623.70	1039.50	—	129-0701-302
Shielded Test Jack – Vertical									
7	Tin	J462-ND	3.56	31.68	250.80	528.00	990.00	1848.00	129-0701-201
	Gold	J570-ND	4.40	38.56	284.13	608.85	1014.75	—	129-0701-202
Tip Jacks – Insulated Deluxe									
8	White	J105-ND	1.05	9.34	73.91	155.60	291.75	544.60	105-0601-001
	Red	J106-ND	1.05	9.34	73.91	155.60	291.75	544.60	105-0602-001
	Black	J107-ND	1.05	9.34	73.91	155.60	291.75	544.60	105-0603-001
	Green	J337-ND	1.05	9.34	73.91	155.60	291.75	544.60	105-0604-001
	Yellow	J338-ND	1.05	9.34	73.91	155.60	291.75	544.60	105-0607-001
	Blue	J339-ND	1.05	9.34	73.91	155.60	291.75	544.60	105-0610-001
Tip Jacks – Insulated Standard Type 6.35mm									
9	White	J320-ND	.60	5.38	42.56	89.60	168.00	313.60	105-0801-001
	Red	J117-ND*	.60	5.38	42.56	89.60	168.00	313.60	105-0802-001
	Black	J118-ND*	.60	5.38	42.56	89.60	168.00	313.60	105-0803-001
	Green	J321-ND	.60	5.38	42.56	89.60	168.00	313.60	105-0804-001
	Yellow	J323-ND	.60	5.38	42.56	89.60	168.00	313.60	105-0807-001
	Blue	J325-ND	.60	5.38	42.56	89.60	168.00	313.60	105-0810-001
Tip Jacks with Sleeve Assembly									
10	White	J450-ND	1.25	11.09	87.78	184.80	346.50	646.80	105-0701-001
	Red	J451-ND	1.25	11.09	87.78	184.80	346.50	646.80	105-0702-001
	Black	J452-ND	1.25	11.09	87.78	184.80	346.50	646.80	105-0703-001

Fig.	Color	Digi-Key Part No.	Pricing						Johnson Part No.
			1	10	100	250	500	1,000	
Tip Plugs – Insulated Solderless Type									
11	White	J300-ND	.73	6.48	51.30	108.00	202.50	378.00	105-0301-001
	Red	J103-ND*	.73	6.48	51.30	108.00	202.50	378.00	105-0302-001
	Black	J104-ND*	.73	6.48	51.30	108.00	202.50	378.00	105-0303-001
	Green	J301-ND	.73	6.48	51.30	108.00	202.50	378.00	105-0304-001
	Blue	J305-ND	.73	6.48	51.30	108.00	202.50	378.00	105-0310-001
Tip Plugs – Insulated Stacking Single Type									
12	Red	J454-ND	2.70	24.00	190.00	400.00	750.00	1400.00	105-1202-001
Miniature Banana Plugs – Insulated Solder Type									
13	Red	J457-ND	1.45	12.86	101.84	214.40	402.00	750.40	108-1002-001
	Black	J458-ND	1.45	12.86	101.84	214.40	402.00	750.40	108-1003-001
For Standard Banana Plug 4.44mm Across Flats									
14	—	J147-ND*	1.16	10.34	81.89	172.40	323.25	603.40	108-0740-001
Uninsulated w/Knurled Thumb Nut For Standard Banana Plug 4.44mm Across Flats									
15	—	J587-ND	2.14	18.98	150.29	316.40	593.25	1107.40	111-2223-001
Binding Posts – Insulated Standard									
16	White	J370-ND	1.80	15.96	126.35	266.00	498.75	931.00	111-0101-001
	Red	J164-ND*	1.80	15.96	126.35	266.00	498.75	931.00	111-0102-001
	Black	J165-ND*	1.80	15.96	126.35	266.00	498.75	931.00	111-0103-001
	Green	J371-ND	1.94	17.23	136.42	287.20	538.50	1005.20	111-0104-001
	Yellow	J372-ND	1.80	15.96	126.35	266.00	498.75	931.00	111-0107-001
Banana Jacks – Insulated Solder Terminal									
17	White	J150-ND*	.46	4.13	32.68	68.80	129.00	240.80	108-0901-001
	Red	J151-ND*	.46	4.13	32.68	68.80	129.00	240.80	108-0902-001
	Black	J152-ND*	.46	4.13	32.68	68.80	129.00	240.80	108-0903-001
	Green	J153-ND	.52	4.61	36.48	76.80	144.00	268.80	108-0904-001
	Orange	J356-ND	.46	4.13	32.68	68.80	129.00	240.80	108-0906-001
	Yellow	J154-ND	.46	4.13	32.68	68.80	129.00	240.80	108-0907-001
	Brown	J357-ND	.52	4.61	36.48	76.80	144.00	268.80	108-0908-001
	Blue	J155-ND	.46	4.13	32.68	68.80	129.00	240.80	108-0910-001
	Violet	J358-ND	.52	4.61	36.48	76.80	144.00	268.80	108-0912-001
	Gray	J359-ND *NEW!*	.46	4.13	32.68	68.80	129.00	240.80	108-0913-001
Banana Plug – Uninsulated Panel Mount Threaded Stud									
18	—	J148-ND	1.23	10.94	86.64	182.40	342.00	638.40	108-0750-001
Banana Plug – Uninsulated Panel Mount Screw Type									
19	—	J149-ND	1.06	9.41	74.48	156.80	294.00	548.80	108-0753-001
Banana Plugs – Insulated Solderless Tapered Handle									
20	White	J144-ND*	.98	8.74	69.16	145.60	273.00	509.60	108-0301-001
	Red	J145-ND*	.98	8.74	69.16	145.60	273.00	509.60	108-0302-001
	Black	J146-ND*	.98	8.74	69.16	145.60	273.00	509.60	108-0303-001
	Green	J340-ND	.98	8.74	69.16	145.60	273.00	509.60	108-0304-001
	Orange	J341-ND	.98	8.74	69.16	145.60	273.00	509.60	108-0306-001
	Yellow	J342-ND	.98	8.74	69.16	145.60	273.00	509.60	108-0307-001
	Brown	J343-ND	.98	8.74	69.16	145.60	273.00	509.60	108-0308-001
	Blue	J344-ND	.98	8.74	69.16	145.60	273.00	509.60	108-0310-001
	Violet	J345-ND	.98	8.74	69.16	145.60	273.00	509.60	108-0312-001
	Gray	J346-ND *NEW!*	.98	8.74	69.16	145.60	273.00	509.60	108-0313-001
Banana Plugs – Insulated Round Body Solder Stud									
21	Red	J156-ND	1.98	17.57	139.08	292.80	549.00	1024.80	108-1722-101
	Black	J157-ND	1.98	17.57	139.08	292.80	549.00	1024.80	108-1723-101
Banana Plugs – Insulated Round Body Solderless									
21	Red	J158-ND	1.50	13.37	105.83	222.80	417.75	779.80	108-1722-103
	Black	J159-ND	1.50	13.37	105.83	222.80	417.75	779.80	108-1723-103
Banana Plugs – Insulated Stacking Single Type									
22	White	J459-ND	1.64	14.54	115.14	242.40	454.50	848.40	108-1081-001
	Red	J460-ND	1.64	14.54	115.14	242.40	454.50	848.40	108-1082-001
	Black	J461-ND	1.64	14.54	115.14	242.40	454.50	848.40	108-1083-001

J100-KIT-ND ***Digi-Key® Plug & Jack Kit*** Contains 10 each of the plugs or jacks as denoted (*) on chart. Price includes compartment divided plastic box for easy storage and quick access **$76.95**

CUI INC

Audio and Power Connectors

General Specifications:
- **Contact Resistance:** 10 - 20 mΩ • **Insulation Resistance:** 50 MΩ min.: 500 VDC • **Voltage Withstand:** 250 VAC, 1 minute • **Life:** 5,000 cycles, most models • **Insertion/Extraction Force:** 0.8 - 2.0 Kgs

Fig. 1 – Right Angle Panel Mount Jack, Mono

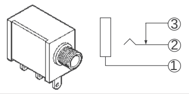


Fig. 2 – PCB Panel Mount Jack, Mono

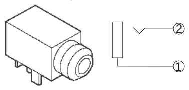


Fig. 3 – Straight Panel Mount Jack, Mono

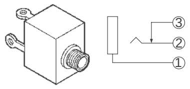


Fig. 4 – Audio Jack, Mono

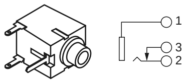


Fig. 5 – Audio Jack, Mono

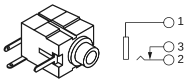


Fig. 6 – Audio Jack, Mono

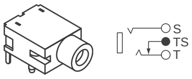


Fig. 7 – SMT Audio Jack, Mono

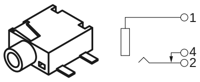


Fig. 8 – SMT Audio Jack, Mono

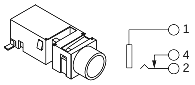


Fig. 9 – SMT Audio Jack, Mono

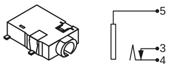


Fig. 10 – Audio Jack, Mono

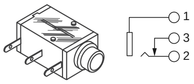


Fig. 11 – SMT Audio Jack, Mono

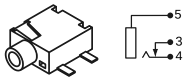


Fig. 12 – SMT Audio Jack, Mono

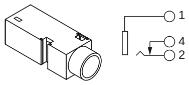


Fig. 13 – Right Angle Panel Mount Jack, Mono

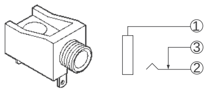


Fig. 14 – Audio Jack, Mono

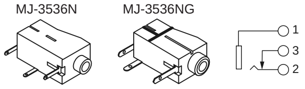


Fig. 15 – Male Power Plug

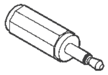


Fig. 16 – Male Power Jack, Closed

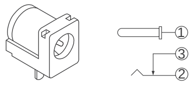


Fig. 17 – Right Angle Power Jack

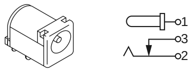


Fig. 18 – SMT Power Jack

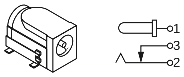


Fig. 19 – SMT Power Jack

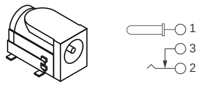


Fig. 20 – Male Power Jack, Open

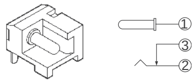


Fig. 21 – Panel Mount Jack

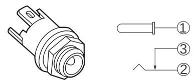


Fig. 22 – Power Jack with Solder Eyelets

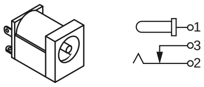


Fig. 23 – Vertical Power Jacks SMT

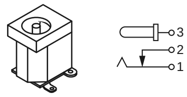


Fig. 24 – Right Angle Power Jack

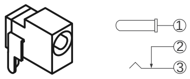


Fig. 25 – DC Power Jack

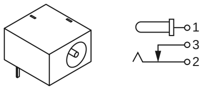


Fig. 26 – SMT Power Jack

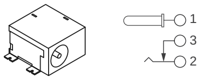


Fig. 27 – DC Power Jack

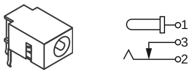


Fig. 28 – Male Power Jack, PCB (with kinked PCB pins)

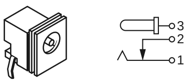


Fig. 29 – SMT Power Jack

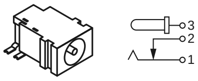


Fig. 30 – DC Power Jack

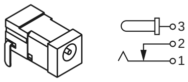


Fig. 31 – SMT Power Jack

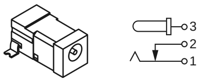


Fig. 32 – DC Power Jack

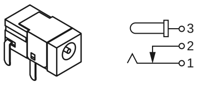


Fig. 33 – SMT Power Jack

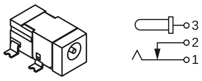


Fig. 34 – DC Power Jack (with 1mm PCB pins)

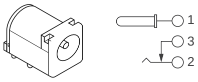


Fig. 35 – Male Power Jack, PCB

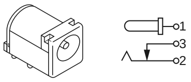


Fig. 36 – Male Power Jack, PCB (with kinked PCB pins)

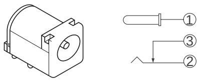


Fig. 37 – Male Power Jack, PCB (with kinked PCB pins)

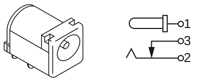


Fig. 38 – Female Plug, 5.5mm Outside

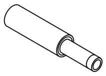


Fig. 39 – Female Plug, 3.5mm Outside

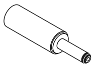


Fig. 40 – Female Plug

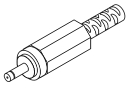


Fig. 41 – Earphone Combo Jack

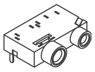


Fig. 42 – Audio Jack, Stereo

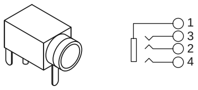


Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	2.5	CP-2502-ND*	.99	.86	.66	MJ-2502
2	2.5	CP-2503-ND†	.51	.44	.34	MJ-2503A
3	2.5	CP-2505-ND*	.93	.81	.62	MJ-2505
4	2.5	CP-2506-ND*	.37	.33	.25	MJ-2506
		CP-2506N-ND†	.37	.33	.25	MJ-2506N
5	2.5	CP-2508-ND*	.26	.23	.18	MJ-2508
		CP-2508N-ND†	.26	.23	.18	MJ-2508N
6	2.5	CP-M2509N-ND	.38	.34	.26	MJ-2509N
7	2.5	CP-2512TR-ND	828.00/800			MJ-2510-SMT
		CP-2512-ND§	2.07	1.80	1.38	MJ-2510-SMT-1
8	2.5	CP-2523MJTR-ND	429.00/1,000			MJ-2523-SMT
		CP-2523MJ-ND§	.75	.65	.50	MJ-2523-SMT-1
9	2.5	CP-2533MJTR-ND	495.00/1,000			MJ-2533-SMT
		CP-2533MJ-ND§	.99	.86	.66	MJ-2533-SMT-1
10	3.5	CP-3502MJ-ND*	.66	.58	.45	MJ-3502
		CP-3502N-ND†	.62	.54	.41	MJ-3502N
11	3.5	CP-3510MJTR-ND	288.00/800			MJ-3510-SMT
		CP-3510MJ-ND§	.69	.60	.46	MJ-3510-SMT-1
12	3.5	CP-3523MJTR-ND	433.50/1,000			MJ-3523-SMT
		CP-3523MJ-ND§	.76	.66	.51	MJ-3523-SMT-1
13	3.5	CP-3536-ND*	.39	.35	.27	MJ-3536
14	3.5	CP-3536N-ND†	.39	.35	.27	MJ-3536N
		CP-3536NG-ND‡	.39	.35	.27	MJ-3536NG
15	2.5	CP-2501-ND	.76	.66	.51	MP-2501
	3.5	CP-3501-ND	.76	.66	.51	MP-3501

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
16	2.1	CP-002A-ND	.38	.33	.26	PJ-002A
	2.5	CP-002B-ND	.38	.33	.26	PJ-002B
17	2.0	CP-002AH-ND	.42	.37	.28	PJ-002AH
	2.5	CP-002BH-ND	.42	.37	.28	PJ-002BH
18	2.0	CP-002AHPJTR-ND	112.50/250			PJ-002AH-SMT
	2.0	CP-002AHPJ-ND§	.81	.71	.54	PJ-002AH-SMT-1
	2.5	CP-002BHPJTR-ND	112.50/250			PJ-002BH-SMT
	2.5	CP-002BHPJ-ND§	.81	.71	.54	PJ-002BH-SMT-1
19	2.1	CP-002APJTR-ND	100.88/250			PJ-002A-SMT
	2.1	CP-002APJ-ND§	.73	.64	.49	PJ-002A-SMT-1
	2.5	CP-002BPJTR-ND	100.88/250			PJ-002B-SMT
	2.5	CP-002BPJ-ND§	.73	.64	.49	PJ-002B-SMT-1
20	2.1	CP-003A-ND	.34	.30	.23	PJ-003A
	2.5	CP-003B-ND	.34	.30	.23	PJ-003B
21	2.0	CP-5-ND*	1.83	1.59	1.22	PJ-005A
	2.5	CP-6-ND*	1.83	1.59	1.22	PJ-005B
22	2.1	CP-006A-ND	.45	.38	.30	PJ-006A
	2.5	CP-006B-ND	.45	.39	.30	PJ-006B
23	2.1	CP-006APJTR-ND	97.50/250			PJ-006A-SMT
	2.1	CP-006APJ-ND§	.75	.65	.50	PJ-006A-SMT-1
	2.5	CP-006BPJTR-ND	97.50/250			PJ-006B-SMT
	2.5	CP-006BPJ-ND§	.75	.65	.50	PJ-006B-SMT-1
24	1.3	CP-2519-ND	.45	.39	.30	PJ-007
25	1.0	CP-014C-ND	.42	.37	.28	PJ-014C
	1.3	CP-014D-ND	.42	.37	.28	PJ-014D

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
26	1.0	CP-014CHPJTR-ND	360.00/800			PJ-014CH-SMT
	1.0	CP-014CHPJ-ND§	.78	.68	.52	PJ-014CH-SMT-1
	1.3	CP-014DHPJTR-ND	360.00/800			PJ-014DH-SMT
	1.3	CP-014DHPJ-ND§	.78	.68	.52	PJ-014DH-SMT-1
	1.0	CP-014CPJTR-ND	332.40/800			PJ-014C-SMT
	1.0	CP-014CPJ-ND§	.72	.63	.48	PJ-014C-SMT-1
	1.3	CP-014DPJTR-ND	332.40/800			PJ-014D-SMT
	1.3	CP-014DPJ-ND§	.72	.63	.48	PJ-014D-SMT-1
27	1.65	CP-016-ND	.54	.47	.36	PJ-016
28	1.65	CP-021-ND	.42	.37	.28	PJ-021
29	1.65	CP-021PJTR-ND	294.00/700			PJ-021-SMT
		CP-021PJ-ND§	.84	.73	.56	PJ-021-SMT-1
30	0.65	CP-022-ND	.69	.60	.46	PJ-022
31	0.65	CP-022PJTR-ND	360.00/1,000			PJ-022-SMT
		CP-022PJ-ND§	.69	.60	.46	PJ-022-SMT-1
32	0.65	CP-023-ND	.75	.65	.50	PJ-023
33	0.65	CP-023PJTR-ND	390.00/1,000			PJ-023-SMT
		CP-023PJ-ND§	.75	.65	.50	PJ-023-SMT-1
34	2.1	CP-102A-ND	.38	.33	.26	PJ-102A
	2.5	CP-102B-ND	.38	.33	.26	PJ-102B
35	2.1	CP-102AH-ND	.42	.37	.28	PJ-102AH
	2.5	CP-102BH-ND	.42	.37	.28	PJ-102BH
36	2.1	CP-202A-ND	.38	.33	.26	PJ-202A
	2.5	CP-202B-ND	.38	.33	.26	PJ-202B

* Threaded with nut † Non-threaded ‡ Non-threaded and Isolated Ground § Tray

(Continued)

Fig. 43 – SMT Stereo Jack

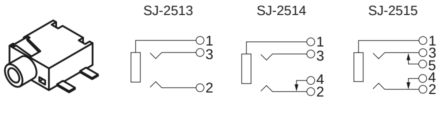


Fig. 44 – SMT Audio Jack, Stereo

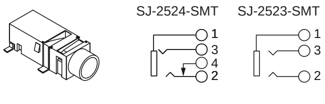


Fig. 45 – SMT Audio Jack, Stereo

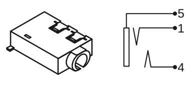


Fig. 46 – SMT Audio Jack, Stereo

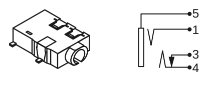


Fig. 47 – SMT Audio Jack, Stereo

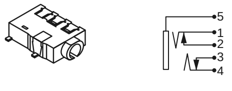


Fig. 48 – Right Angle PCB Mount Jack, Stereo (SJ-3504);
Right Angle PCB Stereo Jack, Stereo (SJ-3505)

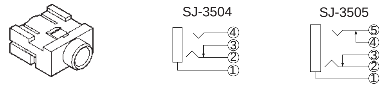


Fig. 49 – Audio Jack, Stereo

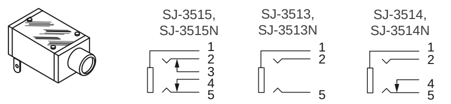


Fig. 50 – SMT Audio Jack, Stereo

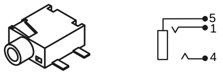


Fig. 51 – SMT Audio Jack, Stereo

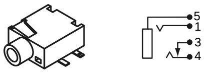


Fig. 52 – SMT Audio Jack, Stereo

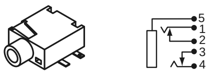


Fig. 53 – Audio Jack, Stereo

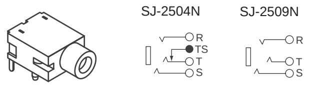


Fig. 54 – Audio Jack, Stereo

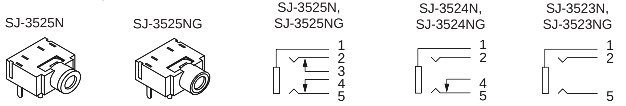


Fig. 55 – SMT Audio Jack, Stereo

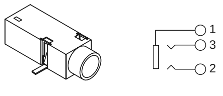


Fig. 56 – SMT Audio Jack, Stereo

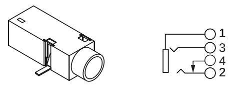


Fig. 57 – Audio Jack, Stereo

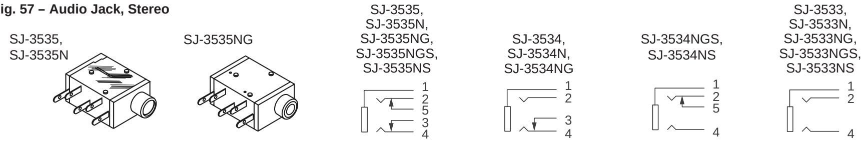


Fig. 58 – Stereo Jack

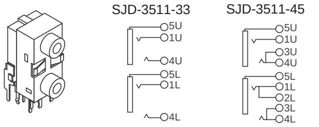


Fig. 59 – Stereo Jack

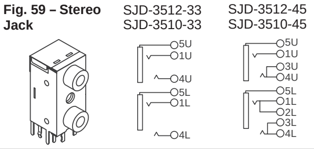


Fig. 60 – Audio Jack, Stereo

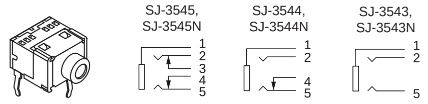


Fig. 61 – Audio Jack, Stereo

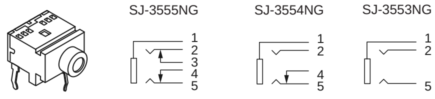


Fig. 62 – Audio Jack

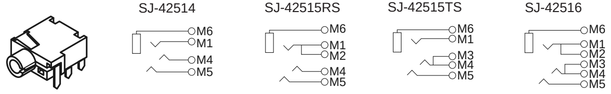


Fig. 63 – SMT Audio Jack

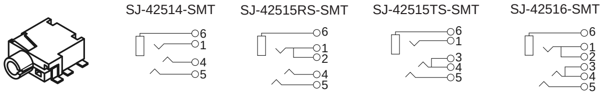


Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
37	2.1	CP-202AH-ND	.42	.37	.28	PJ-202AH
	2.5	CP-202BH-ND	.42	.37	.28	PJ-202BH
38	2.1	CP-004A-ND	.65	.56	.43	PP-002A
	2.5	CP-004B-ND	.65	.56	.43	PP-002B
39	1.3	CP-002D-ND	.78	.68	.53	PP-002D
40	.7 x 2.35	CP-012-ND	.90	.78	.60	PP-012
	1.7 x 4.0	CP-013-ND	.84	.73	.56	PP-013
	1.7 x 4.75	CP-014-ND	.84	.73	.56	PP-014
41	3.5/ 2.5	CP-320154-ND	1.18	1.03	.79	SJD-3201-54
42	2.5	CP-2503A-ND†	.65	.56	.43	SJ-2503A
43	2.5	CP-2514TR-ND	1050.00/1,000			SJ-2513-SMT
		CP-2514-ND§	2.10	1.82	1.40	SJ-2513-SMT-1
		CP-2516TR-ND	864.00/800			SJ-2514-SMT
		CP-2516-ND§	2.16	1.88	1.44	SJ-2514-SMT-1
		CP-2518TR-ND	1095.00/1,000			SJ-2515-SMT
		CP-2518-ND§	2.19	1.90	1.46	SJ-2515-SMT-1
44	2.5	CP-2523SJTR-ND	429.00/1,000			SJ-2523-SMT
		CP-2523SJ-ND§	.75	.65	.50	SJ-2523-SMT-1
		CP-2524SJTR-ND	448.50/1,000			SJ-2524-SMT
		CP-2524SJ-ND§	.79	.69	.53	SJ-2524-SMT-1
45	2.5	CP-2533SJTR-ND	495.00/1,000			SJ-2533-SMT
		CP-2533SJ-ND§	.99	.86	.66	SJ-2533-SMT-1
46	2.5	CP-2534SJTR-ND	525.00/1,000			SJ-2534-SMT
		CP-2534SJ-ND§	1.05	.91	.70	SJ-2534-SMT-1
47	2.5	CP-2535SJTR-ND	540.00/1,000			SJ-2535-SMT
		CP-2535SJ-ND§	1.08	.94	.72	SJ-2535-SMT-1
48	3.5	CP-3504-ND†	2.06	1.79	1.38	SJ-3504
		CP-3505-ND†	2.10	1.83	1.41	SJ-3505
49	3.5	CP-3513-ND*	.80	.70	.54	SJ-3513
		CP-3513N-ND†	.77	.67	.52	SJ-3513N
		CP-3514-ND*	.84	.74	.57	SJ-3514
		CP-3514N-ND†	.82	.71	.55	SJ-3514N
		CP-3515-ND*	.84	.74	.57	SJ-3515
		CP-3515N-ND†	.82	.71	.55	SJ-3515N
50	3.5	CP-3513SJTR-ND	288.00/800			SJ-3513-SMT
		CP-3513SJ-ND§	.69	.60	.46	SJ-3513-SMT-1
51	3.5	CP-3514SJTR-ND	300.00/800			SJ-3514-SMT
		CP-3514SJ-ND§	.72	.63	.48	SJ-3514-SMT-1
52	3.5	CP-3515SJTR-ND	312.00/800			SJ-3515-SMT
		CP-3515SJ-ND§	.72	.63	.48	SJ-3515-SMT-1
53	2.5	CP-S2504N-ND	.45	.40	.31	SJ-2504N
		CP-S2509N-ND	.43	.37	.29	SJ-2509N
54	3.5	CP-3523N-ND†	.62	.54	.41	SJ-3523N
		CP-3523NG-ND‡	.74	.64	.50	SJ-3523NG
		CP-3524NG-ND‡	.78	.68	.53	SJ-3524NG
		CP-3524N-ND†	.71	.62	.47	SJ-3524N
		CP-3525N-ND†	.74	.64	.50	SJ-3525N
		CP-3525NG-ND‡	.80	.70	.54	SJ-3525NG
55	3.5	CP-3523SJTR-ND	433.50/1,000			SJ-3523-SMT
		CP-3523SJ-ND§	.76	.66	.51	SJ-3523-SMT-1
56	3.5	CP-3524SJTR-ND	448.50/1,000			SJ-3524-SMT
		CP-3524SJ-ND§	.79	.69	.53	SJ-3524-SMT-1
57	3.5	CP-3533-ND*	.98	.85	.66	SJ-3533
		CP-3533N-ND†	.95	.83	.64	SJ-3533N
		CP-3533NG-ND‡	.95	.83	.64	SJ-3533NG
		CP-3533NGS-ND‡◊	1.09	.95	.73	SJ-3533NGS
		CP-3533NS-ND†◊	1.09	.95	.73	SJ-3533NS
		CP-3534-ND*	1.01	.88	.68	SJ-3534
		CP-3534N-ND†	.98	.85	.66	SJ-3534N
		CP-3534NG-ND‡	.98	.85	.66	SJ-3534NG
		CP-3534NGS-ND‡◊	1.12	.97	.75	SJ-3534NGS
57	3.5	CP-3534NS-ND†◊	1.12	.97	.75	SJ-3534NS
		CP-3535-ND*	1.04	.91	.70	SJ-3535
		CP-3535N-ND†	1.01	.88	.68	SJ-3535N
		CP-3535NG-ND‡	1.01	.88	.68	SJ-3535NG
		CP-3535NGS-ND‡◊	1.15	1.00	.77	SJ-3535NGS
		CP-3535NS-ND†◊	1.15	1.00	.77	SJ-3535NS
58	3.5	CP-351133-ND	1.67	1.46	1.12	SJD-3511-33
		CP-351145-ND	1.58	1.37	1.05	SJD-3511-45
59	3.5	CP-351033-ND	1.43	1.24	.96	SJD-3510-33
		CP-351233-ND	1.67	1.46	1.12	SJD-3512-33
		CP-351045-ND	1.49	1.29	1.00	SJD-3510-45
		CP-351245-ND	1.82	1.58	1.22	SJD-3512-45
60	3.5	CP-3543-ND*	.95	.83	.64	SJ-3543
		CP-3543N-ND†	.97	.84	.65	SJ-3543N
		CP-3544-ND*	1.00	.87	.67	SJ-3544
		CP-3544N-ND†	.97	.84	.65	SJ-3544N
		CP-3545-ND*	1.03	.90	.69	SJ-3545
		CP-3545N-ND†	1.00	.87	.67	SJ-3545N
61	3.5	CP-3553NG-ND‡	.89	.78	.60	SJ-3553NG
		CP-3554NG-ND‡	.94	.82	.63	SJ-3554NG
		CP-3555NG-ND‡	.97	.84	.65	SJ-3555NG
62	2.5	CP-42514-ND	1.02	.89	.68	SJ-42514
		CP-42515RS-ND	1.05	.91	.70	SJ-42515RS
		CP-42515TS-ND	1.05	.91	.70	SJ-42515TS
		CP-42516-ND	1.08	.94	.72	SJ-42516
63	2.5	CP-42514SJTR-ND	510.00/1,000			SJ-42514-SMT
		CP-42514SJ-ND§	1.02	.89	.68	SJ-42514-SMT-1
		CP-42515RSSJTR-ND	525.00/1,000			SJ-42515RS-SMT
		CP-42515RSSJ-ND§	1.05	.91	.70	SJ-42515RS-SMT-1
		CP-42515TSSJTR-ND	525.00/1,000			SJ-42515TS-SMT
		CP-42515TSSJ-ND§	1.05	.91	.70	SJ-42515TS-SMT-1
		CP-42516SJTR-ND	540.00/1,000			SJ-42516-SMT
		CP-42516SJ-ND§	1.08	.94	.72	SJ-42516-SMT-1

* Threaded with nut † Non-threaded ‡ Non-threaded and Isolated Ground § Tray ◊ Shielded Version

(Continued)

Fig. 64 – SMT Audio Jack

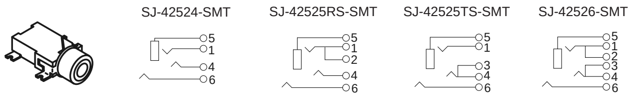


Fig. 65 – SMT Audio Jack

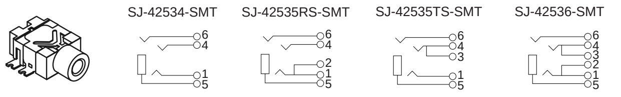


Fig. 66 – Panel Mount Audio Jack

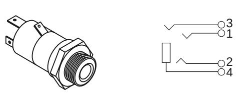


Fig. 67 – Audio Jack

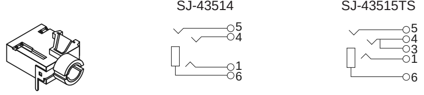


Fig. 68 – Audio Jack

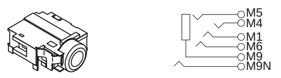


Fig. 69 – 2.5mm Male Stereo Plug

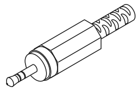


Fig. 70 – 3.5mm Male Stereo Plug

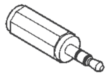


Fig. 71 – Stereo Audio Cables

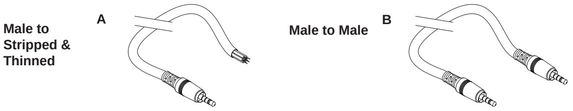


Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
64	2.5	CP-42524SJTR-ND	510.00/1,000			SJ-42524-SMT
		CP-42524SJ-ND§	1.02	.89	.68	SJ-42524-SMT-1
		CP-42525RSSJTR-ND	525.00/1,000			SJ-42525RS-SMT
		CP-42525RSSJ-ND§	1.05	.91	.70	SJ-42525RS-SMT-1
		CP-42525TSSJTR-ND	525.00/1,000			SJ-42525TS-SMT
		CP-42525TSSJ-ND§	1.05	.91	.70	SJ-42525TS-SMT-1
		CP-42526SJTR-ND	540.00/1,000			SJ-42526-SMT
		CP-42526SJ-ND§	1.08	.94	.72	SJ-42526-SMT-1

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
65	2.5	CP-42534SJTR-ND	570.00/1,000			SJ-42534-SMT
		CP-42534SJ-ND§	1.14	.99	.76	SJ-42534-SMT-1
		CP-42535RSSJTR-ND	585.00/1,000			SJ-42535RS-SMT
		CP-42535RSSJ-ND§	1.17	1.02	.78	SJ-42535RS-SMT-1
		CP-42535TSSJTR-ND	585.00/1,000			SJ-42535TS-SMT
		CP-42535TSSJ-ND§	1.17	1.02	.78	SJ-42535TS-SMT-1
		CP-42536SJTR-ND	600.00/1,000			SJ-42536-SMT
		CP-42536SJ-ND§	1.20	1.04	.80	SJ-42536-SMT-1

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
66	3.5	CP-43502PM-ND	3.69	3.20	2.46	SJ-43502PM
67	3.5	CP-43514-ND	.90	.78	.60	SJ-43514
		CP-43515TS-ND	.93	.81	.62	SJ-43515TS
68	3.5	CP-63516-ND	1.26	1.10	.84	SJ-63516
69	2.5	CP-2501SP-ND	.96	.84	.64	SP-2501
70	3.5	CP-3502-ND	.87	.76	.59	SP-3501

Fig.	Dia. mm	Length Feet	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.	Mating Jacks
Cable Assembly 4 Conductor								
71B	2.5	6	CP-254CS-M/M-ND	11.76	10.20	7.84	CA-254CS-M/M	SJ-4252X-SMT
71A	2.5		CP-254CS-ND	9.30	8.06	6.20	CA-254CS	SJ-4252X-SMT
71A	2.5		CP-254S-ND	10.26	8.90	6.84	CA-254S	SJ-4251X-SMT, SJ-4243X-SMT
71B	2.5		CP-254S-M/M-ND	12.66	10.98	8.44	CA-254S-M/M	SJ-4251X-SMT, SJ-4243X-SMT, SJ-4251X
71A	3.5		CP-354S-ND	9.96	8.64	6.64	CA-354S	SJ-4351X, SJ-43502PM
71B	3.5		CP-354S-M/M-ND	12.39	10.74	8.26	CA-354S-M/M	SJ-4351X, SJ-43502PM
Cable Assembly 6 Conductor								
71A	3.5	6	CP-356CS-ND	13.95	12.09	9.30	CA-356CS	SJ-63516
71B			CP-356CS-M/M-ND	18.54	16.07	12.36	CA-356CS-M/M	SJ-63516

§ Tray

Phono Plugs and Jacks

Fig. 1

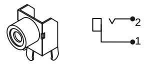


Fig. 2

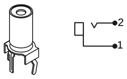


Fig. 3

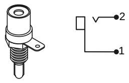


Fig. 4

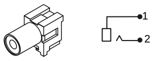


Fig. 5

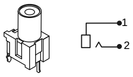


Fig. 6

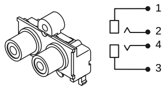


Fig. 7

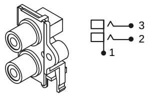


Fig. 8

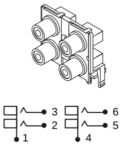


Fig. 9

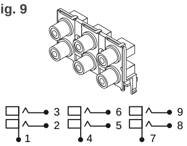


Fig. 10

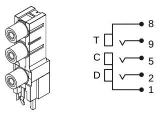


Fig. 11

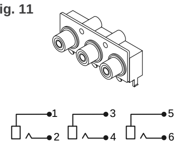


Fig. 12

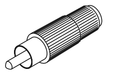


Fig. 13

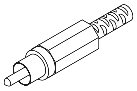


Fig.	Color	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	Black	CP-1400-ND	.61	.53	.41	RCJ-011
	Red	CP-1401-ND	.61	.53	.41	RCJ-012
	White	CP-1402-ND	.61	.53	.41	RCJ-013
	Yellow	CP-1403-ND	.61	.53	.41	RCJ-014
	Blue	CP-1404-ND	.61	.53	.41	RCJ-015
	Green	CP-1405-ND	.61	.53	.41	RCJ-016
2	Black	CP-1406-ND	.58	.51	.39	RCJ-021
	Red	CP-1407-ND	.58	.51	.39	RCJ-022
	White	CP-1408-ND	.58	.51	.39	RCJ-023
	Yellow	CP-1409-ND	.58	.51	.39	RCJ-024
	Blue	CP-1410-ND	.58	.51	.39	RCJ-025
	Green	CP-1411-ND	.58	.51	.39	RCJ-026
3	Black	CP-1412-ND	.71	.62	.47	RCJ-031
	Red	CP-1413-ND	.71	.62	.47	RCJ-032
	White	CP-1414-ND	.71	.62	.47	RCJ-033
	Yellow	CP-1415-ND	.71	.62	.47	RCJ-034
	Blue	CP-1416-ND	.71	.62	.47	RCJ-035
	Green	CP-1417-ND	.71	.62	.47	RCJ-036
4	Black	CP-1418-ND	.88	.77	.59	RCJ-041
	Red	CP-1419-ND	.88	.77	.59	RCJ-042

Fig.	Color	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
4	White	CP-1420-ND	.88	.77	.59	RCJ-043
	Yellow	CP-1421-ND	.88	.77	.59	RCJ-044
	Blue	CP-1422-ND	.88	.77	.59	RCJ-045
	Green	CP-1423-ND	.88	.77	.59	RCJ-046
5	Black	CP-1424-ND	.66	.57	.44	RCJ-051
	Red	CP-1425-ND	.66	.57	.44	RCJ-052
	White	CP-1426-ND	.66	.57	.44	RCJ-053
	Yellow	CP-1427-ND	.66	.57	.44	RCJ-054
	Blue	CP-1428-ND	.66	.57	.44	RCJ-055
	Green	CP-1429-ND	.66	.57	.44	RCJ-056
6	Red/Black	CP-1430-ND	.89	.78	.60	RCJ-2121
	White/Yellow	CP-1431-ND	.89	.78	.60	RCJ-2134
	Red/White	CP-1432-ND	.89	.78	.60	RCJ-2123
7	Red/Black	CP-1433-ND	.86	.75	.58	RCJ-2221
	White/Yellow	CP-1434-ND	.86	.75	.58	RCJ-2234
	Red/White	CP-1435-ND	.86	.75	.58	RCJ-2223
8	Red/Black	CP-1436-ND	1.47	1.28	.98	RCJ-412211
	White/Yellow	CP-1437-ND	1.47	1.28	.98	RCJ-413344
	Red/White	CP-1438-ND	1.47	1.28	.98	RCJ-412233

Fig.	Color	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
9	Red/Black	CP-1439-ND	1.98	1.72	1.32	RCJ-61212121
	White/Yellow	CP-1440-ND	1.98	1.72	1.32	RCJ-61343434
	Red/White	CP-1441-ND	1.98	1.72	1.32	RCJ-61232323
	Red/White/Yellow	CP-1442-ND	1.98	1.72	1.32	RCJ-61223344
10	Red/White/Yellow	CP-1443-ND	1.51	1.31	1.01	RCJ-31234
	Red/Green/Blue	CP-1444-ND	1.51	1.31	1.01	RCJ-31265
11	Red/White/Yellow	CP-1445-ND	1.49	1.29	1.00	RCJ-32234
	Red/Green/Blue	CP-1446-ND	1.49	1.29	1.00	RCJ-32265
12	Black	CP-1447-ND	.62	.54	.42	RCP-011
	Red	CP-1448-ND	.62	.54	.42	RCP-012
	White	CP-1449-ND	.62	.54	.42	RCP-013
	Yellow	CP-1450-ND	.62	.54	.42	RCP-014
	Blue	CP-1451-ND	.62	.54	.42	RCP-015
	Green	CP-1452-ND	.62	.54	.42	RCP-016
13	Black	CP-1453-ND	.62	.54	.42	RCP-021
	Red	CP-1454-ND	.62	.54	.42	RCP-022
	White	CP-1455-ND	.62	.54	.42	RCP-023
	Yellow	CP-1456-ND	.62	.54	.42	RCP-024
	Blue	CP-1457-ND	.62	.54	.42	RCP-025
	Green	CP-1458-ND	.62	.54	.42	RCP-026

EDAC INC Waterproof Connector Assemblies

Colored wires to be installed in the following order:

1. Black	4. Green	7. Orange
2. White	5. Brown	8. Yellow
3. Red	6. Blue	9. Violet

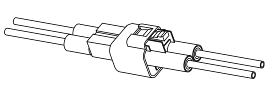


Fig. 1

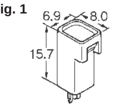


Fig. 2

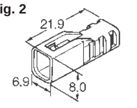


Fig. 3

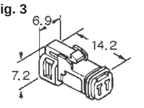


Fig. 4

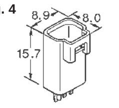


Fig. 5

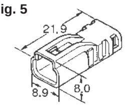


Fig. 6

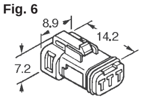


Fig. 7

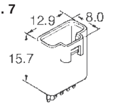


Fig. 8

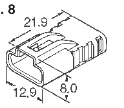


Fig. 9

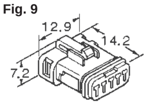


Fig. 10

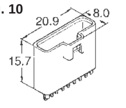


Fig. 11

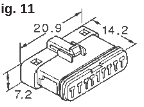


Fig. 12

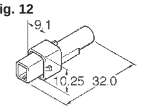


Fig. 13

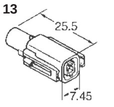


Fig. 14

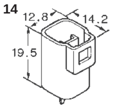


Fig. 15

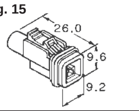


Fig. 16

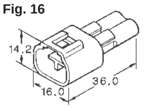


Fig. 17

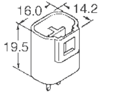


Fig. 18

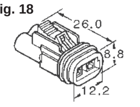


Fig. 19

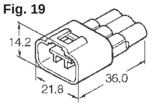


Fig. 20

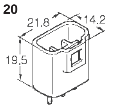
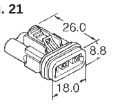


Fig. 21



Features: Major applications include baths, toilets, hot-water suppliers, washing machines, water purifiers, outdoor motors, frozen food showcases, and construction devices.

566 (WP20/22) Series, 22 AWG : FEATURES: As being a fully waterproof small-sized connector of 2 mm pitch. **SPECIFICATIONS: Pitch:** 2.0 mm. **Rated Voltage:** 250V. **Rated Current:** Max 2A. **Withstand Voltage:** AC1000V, 1 Minute. **Contact Resistance:** 10mΩ max. **Insulation Resistance:** 1000MΩ min./DC500V. **Temperature Range:** -40°C~+105°C. **Water proof grade:** JIS C0920 (grade 8) Water proof type by JIS C0920. **Applicable Board Thickness:** 1.6 mm. **Housing - Pin Block:** PBT (UL94V-0). **Terminal:** PB/Tin plating. **Wire - Housing Seal:** Silicone Rubber.

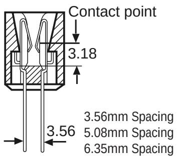
568 (CL07C) Series, 20 AWG FEATURES: • As a waterproof connector of single-pole specification, housing lock can assure tight closing without being easily disengaged. The lock is small in size and compact. • Outstanding in mechanical/electrical characteristics, etc. because of the highly stable contact part. • Conforming to Electric Apparatus Control Regulations. **SPECIFICATIONS: Rated Voltage:** 300V. **Rated Current:** Max 5A. **Withstand Voltage:** AC1700V, 1 Minute. **Contact Resistance:** 10mΩ max. **Insulation Resistance:** 1000MΩ min./DC500V. **Temperature Range:** -40°C~+105°C. **Water proof grade:** JIS C0920 (grade 4) Water proof type by JIS C0920. **Housing - Pin Block:** PBT (UL94V-0). **Terminal:** Brass/Tin plating. **Wire - Housing Seal:** Silicone Rubber.

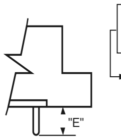
570 (CL07D/E) Series, 16 AWG FEATURES: • Fully waterproof connector of 5.8 mm pitch, being applicable to large current (max. 10A). • Conforming to Electric Apparatus Control Regulations. **SPECIFICATIONS: Rated Voltage:** 300V. **Rated Current:** Max 10A. **Withstand Voltage:** AC1700V, 1 Minute. **Contact Resistance:** 10mΩ max. **Insulation Resistance:** 1000MΩ min./DC500V. **Temperature Range:** -40°C~+105°C. **Water proof grade:** JIS C0920 (grade 4) Water proof type by JIS C0920. **Applicable Board Thickness:** 1.6 mm. **Housing - Pin Block:** PBT (UL94V-0). **Terminal:** Brass/Tin plating. **Wire - Housing Seal:** Silicone Rubber.

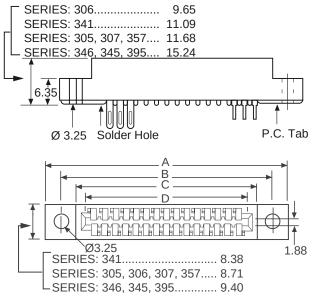
Fig.	Description	Length Ft. (M)	Digi-Key Part No.	Pricing 1	10	100	EDAC Part No.
WP20/22 Series — 22 AWG							
1	Connector Plug, 2 Position, PCB Mount	—	151-1001-ND	.87	7.70	61.60	566-002-420-101
2	Cable Assembly Plug, 2 Position	3 (.91)	151-1002-ND	5.25	48.30	420.00	566-002-714-120
3	Assembly Receptacle, 2 Position	3 (.91)	151-1003-ND	5.68	52.21	454.00	566-002-724-220
4	Connector Plug, 3 Position, PCB Mount	—	151-1004-ND	1.33	11.83	94.60	566-003-420-101
5	Cable Assembly Plug, 3 Position	3 (.91)	151-1005-ND	7.78	71.53	622.00	566-003-714-120
6	Assembly Receptacle, 3 Position	3 (.91)	151-1006-ND	8.18	75.21	654.00	566-003-724-220
7	Connector Plug, 5 Position, PCB Mount	—	151-1007-ND	1.98	17.60	140.80	566-005-420-101
8	Cable Assembly Plug, 5 Position	3 (.91)	151-1008-ND	12.78	117.53	1022.00	566-005-714-120
9	Assembly Receptacle, 5 Position	3 (.91)	151-1009-ND	13.05	120.06	1044.00	566-005-724-220
10	Connector Plug, 9 Position, PCB Mount	—	151-1010-ND	2.91	25.85	206.80	566-009-420-101
11	Assembly Receptacle, 9 Position	3 (.91)	151-1011-ND	22.98	211.37	1838.00	566-009-724-220
CL07C Series — 18 AWG							
12	Cable Assembly Plug, 1 Position	3 (.91)	151-1014-ND	3.40	31.28	272.00	568-001-734-100
13	Assembly Receptacle, 1 Position	3 (.91)	151-1015-ND	3.05	28.06	244.00	568-001-744-200
CL07D/E Series — 18 AWG							
14	Connector Plug, 1 Position, PCB Mount	—	151-1016-ND	1.15	10.18	81.40	570-001-420-101
15	Cable Assembly Receptacle, 1 Position	3 (.91)	151-1017-ND	3.95	36.34	316.00	570-001-744-200
16	Assembly Plug, 2 Position	3 (.91)	151-1018-ND	6.53	60.03	522.00	570-002-734-100
17	Connector Plug, 2 Position, PCB Mount	—	151-1019-ND	1.40	12.38	99.00	570-002-420-101
18	Cable Assembly Receptacle, 2 Position	3 (.91)	151-1020-ND	6.93	63.71	554.00	570-002-744-200
19	Cable Assembly Plug, 3 Position	3 (.91)	151-1021-ND	10.28	94.53	822.00	570-003-734-100
20	Connector Plug, 3 Position, PCB Mount	—	151-1022-ND	2.42	21.45	171.60	570-003-420-101
21	Assembly Receptacle, 3 Position	3 (.91)	151-1023-ND	10.63	97.75	850.00	570-003-744-200
—	Extraction Tool, 566 Series		151-1012-ND	205.35	—	—	566-280-300

Edgeboard Connectors

MATERIALS: Insulator: Thermoplastic Polyester,UL 94V-0. **Contacts:** Copper, Nickel, Tin Alloy CA-725 or Phosphor Bronze. **Contact Plating:** Gold on Mating Area, Tin-Lead on the Contact Tails, Nickel Underplate. **Colors**:Series 305, 306, 307, 341, 345 and 346 are green. Series 357 and 395 are black. **MECHANICAL: P.C. Card Slot:** Accepts boards .054" (1.37mm) to .070" (1.78mm) thick. **ELECTRICAL: Insulation Resistance:** 5000 megohms at 500 VDC. **Dielectric Withstanding Voltage:** 1500 V.A.C. RMS at sea level. **Current Rating:** 3 Amperes. **Contact Resistance:** 6 Milliohms, maximum. **ENVIRONMENTAL: Operating Temperature:** -65° to +125°C.






SERIES: 306.................... 9.65
SERIES: 341.................... 11.09
SERIES: 305, 307, 357.... 11.68
SERIES: 346, 345, 395.... 15.24
6.35
Ø 3.25
Solder Hole
P.C. Tab
A
B
C
D
Ø3.25
1.88
SERIES: 341............................ 8.38
SERIES: 305, 306, 307, 357..... 8.71
SERIES: 346, 345, 395............ 9.40

NOTE:
SERIES 341: 10.16mm for 28/56 pin & up.
SERIES 306: 12.70mm for 28 pin & up.
SERIES 305, 307, 357: 12.70mm for 28/56 pin & up

Pos./ Char.	Dimensions (mm)					Digi-Key	Pricing				EDAC
	A ±.38	B ±.20	C ±.38	D ±.15	E ±.51	Part No.	1	10	100	500	Part No.
Solder Tail — 3.56mm Row-to-Row Spacing											
2.54mm Contact Centers											
12	37.47	29.85	22.23	17.78	3.18	EDC341122-ND	2.39	21.18	169.40	654.50	341-012-520-202
20	47.63	40.01	32.39	27.94	3.18	EDC341202-ND	2.60	23.10	184.80	714.00	341-020-520-202
30	60.33	52.71	45.09	40.64	3.18	EDC341302-ND	2.88	25.58	204.60	790.50	341-030-520-202
40	73.03	65.41	57.79	53.34	3.18	EDC341402-ND	3.16	28.05	224.40	867.00	341-040-520-202
50	85.73	78.11	70.49	66.04	3.18	EDC341502-ND	3.50	31.08	248.60	960.50	341-050-520-202
3.96mm Contact Centers											
12	46.79	38.91	31.65	27.94	5.41	EDC305122-ND	1.43	12.65	101.20	391.00	305-012-520-202
20	62.64	54.76	47.50	43.79	5.41	EDC305202-ND	1.86	16.50	132.00	510.00	305-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC305242-ND	2.14	18.98	151.80	586.50	305-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC305302-ND	2.42	21.45	171.60	663.00	305-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC305362-ND	2.76	24.48	195.80	756.50	305-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC305442-ND	3.19	28.33	226.60	875.50	305-044-520-202
Solder Tail — 5.08mm Row-to-Row Spacing											
2.54mm Contact Centers											
20	46.61	40.01	32.00	27.94	4.44	EDC395202-ND	2.17	19.25	154.00	595.00	395-020-520-202
26	54.23	47.63	39.62	35.56	4.44	EDC395262-ND	2.36	20.90	167.20	646.00	395-026-520-202
30	59.31	52.71	44.70	40.64	4.44	EDC395302-ND	2.48	22.00	176.00	680.00	395-030-520-202
34	64.39	57.79	49.78	45.72	4.44	EDC395342-ND	2.54	22.55	180.40	697.00	395-034-520-202
36	66.93	60.33	52.32	48.26	4.44	EDC395362-ND	2.60	23.10	184.80	714.00	395-036-520-202
40	72.01	65.41	57.40	53.34	4.44	EDC395402-ND	2.79	24.75	198.00	765.00	395-040-520-202
44	77.09	70.49	62.48	58.42	4.44	EDC395442-ND	2.95	26.13	209.00	807.50	395-044-520-202
50	84.71	78.11	70.10	66.04	4.44	EDC395502-ND	3.13	27.78	222.20	858.50	395-050-520-202
56	92.33	85.73	77.72	73.66	4.44	EDC395562-ND	3.32	29.43	235.40	909.50	395-056-520-202
60	97.41	90.81	82.80	78.74	4.44	EDC395602-ND	3.44	30.53	244.20	943.50	395-060-520-202
62	99.95	93.35	85.34	81.28	4.44	EDC395622-ND	3.53	31.35	250.80	969.00	395-062-520-202
3.96mm Contact Centers											
20	62.64	54.76	47.50	43.79	5.41	EDC357202-ND	1.98	17.60	140.80	544.00	357-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC357242-ND	2.08	18.43	147.40	569.50	357-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC357302-ND	2.39	21.18	169.40	654.50	357-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC357362-ND	2.73	24.20	193.60	748.00	357-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC357442-ND	3.10	27.50	220.00	850.00	357-044-520-202
Solder Tail — 6.35mm Row-to-Row Spacing											
3.18mm Contact Centers											
44	90.42	83.69	77.09	73.03	4.44	EDC346442-ND	3.22	28.60	228.80	884.00	346-044-520-202
56	109.47	102.74	96.14	92.08	4.44	EDC346562-ND	3.60	31.90	255.20	986.00	346-056-520-202
72	134.87	128.14	121.54	117.48	4.44	EDC346722-ND	4.34	38.50	308.00	1190.00	346-072-520-202
100	179.32	172.59	165.99	161.93	4.44	EDC346102-ND	5.46	48.40	387.20	1496.00	346-100-520-202
Solder Tail — Center Spacing (Single Row)											
3.96mm Contact Centers											
10	62.64	54.76	47.50	43.79	5.41	EDC306102-ND	1.77	15.68	125.40	484.50	306-010-520-102
15	82.45	74.57	67.31	63.60	5.41	EDC306152-ND	2.39	21.18	169.40	654.50	306-015-520-102
18	94.34	86.46	79.20	75.49	5.41	EDC306182-ND	2.76	24.48	195.80	756.50	306-018-520-102
22	110.19	102.31	95.05	91.34	5.41	EDC306222-ND	3.22	28.60	228.80	884.00	306-022-520-102
Solder Eyelets — 3.56mm Row-to-Row Spacing											
3.96mm Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC305120-ND	1.43	12.65	101.20	391.00	305-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC305200-ND	1.86	16.50	132.00	510.00	305-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC305240-ND	2.14	18.98	151.80	586.50	305-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC305300-ND	2.42	21.45	171.60	663.00	305-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC305360-ND	2.76	24.48	195.80	756.50	305-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC305440-ND	3.41	30.25	242.00	935.00	305-044-500-202
Solder Eyelets — 5.08mm Row-to-Row Spacing											
3.96mm Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC307120-ND	1.52	13.48	107.80	416.50	307-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC307200-ND	1.98	17.60	140.80	544.00	307-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC307240-ND	2.08	18.43	147.40	569.50	307-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC307300-ND	2.39	21.18	169.40	654.50	307-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC307360-ND	2.73	24.20	193.60	748.00	307-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC307440-ND	3.19	28.33	226.60	875.50	307-044-500-202
Solder Eyelets — Center Spacing (Single Row)											
3.96mm Contact Centers											
10	62.64	54.76	47.50	43.79	7.16	EDC306100-ND	1.77	15.68	125.40	484.50	306-010-500-102
15	82.45	74.57	67.31	63.60	7.16	EDC306150-ND	2.39	21.18	169.40	654.50	306-015-500-102
18	94.34	86.46	79.20	75.49	7.16	EDC306180-ND	2.76	24.48	195.80	756.50	306-018-500-102
22	110.19	102.31	95.05	91.34	7.16	EDC306220-ND	3.22	28.60	228.80	884.00	306-022-500-102

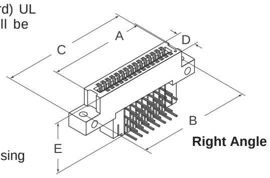
Pos./ Char.	Contact Spacing (mm)	Dim. (mm)		Bus	Digi-Key	Pricing				EDAC
		C ±.38	D ±.15	Style	Part No.	1	10	100	500	Part No.
Industry Standard Bus Systems										
60	2.54	82.80	78.74	MULTIBUS 1	EDC345602-ND	4.19	37.13	297.00	1147.50	345-060-524-201
120	2.54	159.00	154.94	VERSABUS	EDC345202-ND	6.98	61.88	495.00	1912.50	345-120-520-201
56	3.18	96.14	92.08	STANDARD BUS	EDC346052-ND	4.09	36.30	290.40	1122.00	346-056-520-802
62	2.54	85.34	81.28	IBM PC-XT	EDC395062-ND	1.09	9.63	77.00	297.50	395-062-520-350
98	2.54	131.06	127.00	IMB PC-AT ISA	EDC395982-ND	1.40	12.38	99.00	382.50	395-098-520-350

Sullins Edgecard Connectors

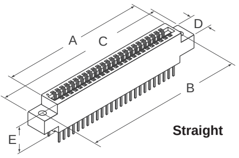
MATERIALS
- **Insulator:** Glass filled thermoplastic polyester PBT (Standard) UL 94V-0 Approved. For 1mm and .050" spacing parts, it will be "PPS" and for all others it will be "PBT"
- **Contacts:** Phosphor Bronze (Standard)
- **Contact Plating:** Gold over Nickel
- **UL File Number:** E64287
- **Termination Plating:** Tin

MECHANICAL
- **Board Insertion Force:** 16 ozs. maximum per contact pair using .062 steel test blade
- **Board Withdrawal Force:** 1 oz. minimum per contact pair using .062 steel test blade

ELECTRICAL
- **Insulation Resistance:** 5,000 megohms.
- **Dielectric Withstanding Voltage:** Contact. Centers — .100, .125, .156., 1mm and .050" Voltage — 600 VDC, 800 VDC, 1800 VDC, 250 VDC
- **Current Rating:** 3 amperes, 1mm and .050" parts are 1 amp
- **Voltage Drop:** 30 mV at rated current
- **Contact Resistance:** 10 milliohms max. at rated current



Right Angle



Straight

ENVIRONMENTAL
- **Solvent Resistance:** Perchloroethylene, Freon 113, Freon 11, Trichloroethylene
- **Operating Temperature:** PBT -65°C to 130°C, PPS -65°C to 220°C. Phosphor Bronze -65°C to 125°C

Fig. 1 Eyelet

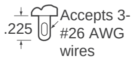


Fig. 2 Right Angle

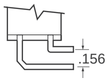


Fig. 3 Narrow Dip Solder

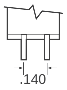


Fig. 4 Wide Dip Solder

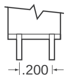


Fig. 5 Staggered Dip

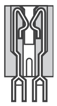


Fig. 6 Surface Mount

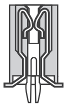


Fig. 7 Card Extender

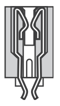
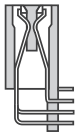


Fig. 8 Right Angle



Polarizing Keys

Polarizing Keys not available for product with .050 and 1mm contact spacing.

Description	Digi-Key Part No.	Pricing 10	100	Sullins Part No.
Polarizing Key used for Low Profile (.431")	PLA-K1-ND	1.00	7.00	PLA-K1
Polarizing Key used for all other Profiles	PLC-K1-ND	1.00	7.00	PLC-K1

High Profile

Pos./ Cont.	Dimensions (Inches)					Digi-Key Part No.	Pricing			Sullins Part No.
	A	B	C	D	E		1	10	100	
Fig. 5 Peripheral Component Interconnect (PCI) .050" Contact Centers										
80/160	4.240	4.526	4.840	.370	.300	S08019-ND•	15.62	124.00	868.00	RZB80DHHN
42/49	4.890	5.176	5.490	.370	.300	S09119-578-ND•	16.38	130.00	910.00	RZB91DCHN-S578
Fig. 4 Solder Tail .100" Contact Centers										
6/12	0.860	1.175	1.435	.370	—	S1066-ND•	1.73	13.75	96.25	EZC06DCWN
10/20	1.260	1.575	1.835	.370	—	S1106-ND•	2.33	18.50	129.50	EZC10DCWN
12/24	1.460	1.775	2.035	.370	—	S1126-ND•	2.17	17.25	120.75	EZC12DCWN
15/30	1.760	2.075	2.335	.370	—	S1156-ND•	2.68	21.25	148.75	EZC15DCWN
25/50	2.760	3.075	3.335	.370	—	S1256-ND•	3.02	24.00	168.00	EZC25DCWN
25/50	2.760	3.075	3.335	.370	—	S1250-ND	3.02	24.00	168.00	EZC25DCWH
18/36	2.060	2.375	2.635	.370	—	S1186-371-ND	2.14	17.00	119.00	EZC18DCWN-S371
Fig. 5 Right Angle .100" Contact Centers										
49/98	5.460	—	—	.370	—	S14916-605-ND•	12.19	96.75	677.25	EZC49DCAN-S605
Fig. 2 Solder Tail Right Angle .100" Contact Centers										
10/20	1.460	1.775	2.035	.370	—	S11022-ND	3.56	28.25	197.75	EZC10DCAH
Wire Wrap .100" Contact Centers										
10/20	1.260	1.575	1.835	.370	—	S11013-ND	2.84	22.50	157.50	EZC10DCMH
Solder Tail .125" Contact Centers										
28/56	3.785	4.045	4.325	.370	.431	S22821-ND††	6.14	48.75	341.25	EZA28DRJH
50/100	6.535	6.795	7.075	.370	—	S25011-ND	8.60	68.25	477.75	EZA50DCSD
Solder Tail .156" Contact Centers										
6/12	1.221	1.534	1.784	.370	—	S5066-ND•	2.68	21.25	148.75	EZM06DCWN
22/44	3.717	4.030	4.280	.370	—	S5220-ND	3.94	31.25	218.75	EZM22DCWH
36/72	5.901	6.214	6.464	.370	—	S5366-ND•	4.66	37.00	259.00	EZM36DCWN
43/86	6.993	7.306	7.556	.370	—	S5437-ND•	5.32	42.25	295.75	EZM43DCTN

Low Profile

Pos./ Cont.	Dimensions (Inches)					Digi-Key Part No.	Pricing			Sullins Part No.
	A	B	C	D	E		1	10	100	
At Expansion Board Connector										
49/98	PCB Expansion Port Edge Card					S1020-ND•	3.12	24.75	173.25	EZC49DCWN-S420
Right Angle — Solder Tail — .156" Spacing										
Fig. 2 .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S1051-ND	6.33	50.25	351.75	EZC05DRAS
6/12	0.875	1.175	1.475	.330	.431	S1061-ND	5.70	45.25	316.75	EZC06DRAS
10/20	1.275	1.575	1.875	.330	.431	S1101-ND	4.97	40.48	294.40	EZC10DRAS
15/30	1.775	2.075	2.375	.330	.431	S1151-ND	5.99	47.50	332.50	EZC15DRAS
18/36	2.075	2.375	2.675	.330	.431	S1181-ND	6.52	51.75	362.25	EZC18DRAS
22/44	2.475	2.775	3.075	.330	.431	S1221-ND	7.62	60.50	423.50	EZC22DRAS
Fig. 2 .156" Contact Centers										
12/24	2.156	2.469	2.811	.325	.431	S5121-ND	7.94	63.00	441.00	EZM12DRAS
22/44	3.716	4.029	4.371	.325	.431	S5221-ND	8.57	68.00	476.00	EZM22DRAS
Eyelet — .007" Thick, .140" Spacing										
Fig. 1 .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5065-ND	4.50	35.75	250.25	EZM06DSEH
10/20	1.844	2.157	2.499	.325	.431	S5105-ND	4.28	34.00	238.00	EZM10DSEH
15/30	2.624	2.937	3.279	.325	.431	S5155-ND	4.57	36.25	253.75	EZM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S5185-ND	5.36	42.50	297.50	EZM18DSEH
22/44	3.716	4.029	4.371	.325	.431	S5225-ND	5.45	43.25	302.75	EZM22DSEH
Eyelet — .014" Thick, .140" Spacings										
Fig. 1 .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S1052-ND	2.71	21.50	150.50	EZC05DREH
6/12	0.875	1.175	1.475	.330	.431	S1062-ND	2.84	22.50	157.50	EZC06DREH
10/20	1.275	1.575	1.875	.330	.431	S1102-ND	3.24	25.75	180.25	EZC10DREH
15/30	1.775	2.075	2.375	.330	.431	S1152-ND	4.13	32.75	229.25	EZC15DREH
18/36	2.075	2.375	2.675	.330	.431	S1182-ND	4.57	36.25	253.75	EZC18DREH
22/44	2.475	2.775	3.075	.330	.431	S1222-ND	6.24	49.50	346.50	EZC22DREH
25/50	2.775	3.075	3.375	.330	.431	S1252-ND	5.48	43.50	304.50	EZC25DREH
35/70	3.775	4.075	4.375	.400	.431	S1352-ND	6.74	53.50	374.50	EZC35DREH
36/72	3.875	4.175	4.475	.400	.431	S1362-ND	8.69	69.00	483.00	EZC36DREH
Fig. 1 .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5062-ND	3.31	26.25	183.75	EZM06DREH
10/20	1.844	2.157	2.499	.325	.431	S5102-ND	4.19	33.25	232.75	EZM10DREH
15/30	2.624	2.937	3.279	.325	.431	S5152-ND	4.88	38.75	271.25	EZM15DREH
18/36	3.092	3.405	3.747	.325	.431	S5182-ND	5.80	46.00	322.00	EZM18DREH
22/44	3.716	4.029	4.371	.325	.431	S5222-ND	5.07	40.25	281.75	EZM22DREH
28/56	4.652	4.965	5.307	.438	.431	S5282-ND	7.72	61.25	428.75	EZM28DREH
36/72	5.900	6.213	6.555	.438	.431	S5362-ND	11.43	90.75	635.25	EZM36DREH
Solder Tail — .140" Spacing										
Fig. 3 .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S1053-ND	2.61	20.75	145.25	EZC05DRTH
10/20	1.275	1.575	1.875	.330	.431	S1103-ND	3.06	24.25	169.75	EZC10DRTH
15/30	1.775	2.075	2.375	.330	.431	S1153-ND	3.47	27.50	192.50	EZC15DRTH
20/40	2.275	2.575	2.875	.330	.431	S1203-ND	5.51	43.75	306.25	EZC20DRTH
Fig. 3 .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5063-ND	4.54	36.00	252.00	EZM06DRTH
10/20	1.844	2.157	2.499	.325	.431	S5103-ND	4.35	34.50	241.50	EZM10DRTH
22/44	3.716	4.029	4.371	.325	.431	S5223-ND	5.54	44.00	308.00	EZM22DRTH
28/56	4.652	4.965	5.307	.438	.431	S5283-ND	8.06	64.00	448.00	EZM28DRTH
Solder Tail — .200" Spacing										
Fig. 4 .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S1054-ND	2.27	18.00	126.00	EZC05DRXH
6/12	0.875	1.175	1.475	.330	.431	S1064-ND	2.36	18.75	131.25	EZC06DRXH
10/20	1.275	1.575	1.875	.330	.431	S1104-ND	2.68	21.25	148.75	EZC10DRXH
15/30	1.775	2.075	2.375	.330	.431	S1154-ND	3.09	24.50	171.50	EZC15DRXH
18/36	2.075	2.375	2.675	.330	.431	S1184-ND	3.09	24.50	171.50	EZC18DRXH
20/40	2.275	2.575	2.875	.330	.431	S1204-ND	3.94	31.25	218.75	EZC20DRXH
22/44	2.475	2.775	3.075	.330	.431	S1224-ND	4.47	35.50	248.50	EZC22DRXH
25/50	2.775	3.075	3.375	.330	.431	S1254-ND	4.47	35.50	248.50	EZC25DRXH
30/60	3.275	3.575	3.875	.330	.431	S1304-ND	6.74	53.50	374.50	EZC30DRXH
36/72	3.875	4.175	4.475	.330	.431	S1364-ND	5.61	44.50	311.50	EZC36DRXH
40/80	4.275	4.575	4.875	.330	.431	S1404-ND	6.90	54.75	383.25	EZC40DRXH
50/100	5.275	5.575	5.875	.400	.431	S1504-ND	9.67	76.75	537.25	EZC50DRXH
60/120	6.275	6.575	6.875	.400	.431	S1604-ND	9.17	72.75	509.25	EZC60DRXH
Fig. 4 .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5064-ND	3.02	24.00	168.00	EZM06DRXH
10/20	1.844	2.157	2.499	.325	.431	S5104-ND	3.02	24.00	168.00	EZM10DRXH
12/24	2.156	2.469	2.811	.325	.431	S5124-ND	3.59	28.50	199.50	EZM12DRXH
15/30	2.624	2.937	3.279	.325	.431	S5154-ND	3.47	27.50	192.50	EZM15DRXH
18/36	3.092	3.405	3.747	.325	.431	S5184-ND	4.16	33.00	231.00	EZM18DRXH
22/44	3.716	4.029	4.371	.325	.431	S5224-ND	4.16	33.00	231.00	EZM22DRXH
25/50	4.184	4.497	4.839	.325	.431	S5254-ND	5.32	42.25	295.75	EZM25DRXH
28/56	4.652	4.965	5.307	.438	.431	S5284-ND	6.08	48.25	337.75	EZM28DRXH
36/72	5.900	6.213	6.555	.438	.431	S5364-ND	7.91	62.75	439.25	EZM36DRXH
Staggered Dip										
NEW! Fig. 5 .050" Contact Centers NEW!										
6/12	0.540	0.826	1.140	.370	.610	S3118-ND•	10.43	82.75	579.25	RZB06DHHN
10/20	0.740	1.026	1.340	.370	.610	S3119-ND•	10.93	86.75	520.50	RZB10DHHN
13/26	0.890	1.176	1.490	.370	.610	S3120-ND•	11.25	89.25	535.50	RZB13DHHN
15/30	0.990	1.276	1.590	.370	.610	S3121-ND•	11.53	91.50	549.00	RZB15DHHN
20/40	1.240	1.526	1.840	.370	.610	S3122-ND•	12.06	95.75	574.50	RZB20DHHN
22/44	1.340	1.626	1.940	.370	.610	S3123-ND•	12.35	98.00	588.00	RZB22DHHN
25/50	1.490	1.776	2.090	.370	.610	S3124-ND•	12.66	100.50	603.00	RZB25DHHN
30/60	1.740	2.026	2.340	.370	.610	S3125-ND•	13.29	105.50	633.00	RZB30DHHN
34/68	1.940	2.226	2.540	.370	.610	S3126-ND•	13.80	109.50	657.00	RZB34DHHN
35/70	1.990	2.276	2.590	.370	.610	S3127-ND•	13.89	110.25	661.50	RZB35DHHN

• No Mounting Ears   †† .165" Post Length   † Card Extender   ‡ Hairpin Bellows   ‡‡ Cantilever   § Metal Boardlocks

(Continued)

Sullins Edgecard Connectors Low Profile *(Cont.)*

Pos./ Cont.	Dimensions (Inches)					Digi-Key Part No.	Pricing			Sullins Part No.
	A	B	C	D	E		1	10	100	
40/80	2.240	2.526	2.840	.370	.610	S3128-ND•	14.52	115.25	691.50	RZB40DHHN
45/90	2.490	2.776	3.090	.370	.610	S3129-ND•	15.03	119.25	715.50	RZB45DHHN
50/100	2.740	3.026	3.340	.370	.610	S3130-ND•	15.66	124.25	745.50	RZB50DHHN
60/120	3.240	3.526	3.840	.370	.610	S3131-ND•	16.85	133.75	802.50	RZB60DHHN
64/128	3.440	3.726	4.040	.370	.610	S3132-ND•	17.29	137.25	823.50	RZB64DHHN
75/150	3.990	4.276	4.590	.370	.610	S3133-ND•	18.62	147.75	886.50	RZB75DHHN
80/160	4.240	4.526	4.840	.370	.610	S3134-ND•	19.22	152.50	915.00	RZB80DHHN
85/170	4.490	4.776	5.090	.370	.610	S3135-ND•	19.85	157.50	945.00	RZB85DHHN
95/190	4.990	5.276	5.590	.370	.610	S3136-ND•	20.98	166.50	999.00	RZB95DHHN
100/200	5.240	5.526	5.840	.370	.610	S3137-ND•	21.58	171.25	1027.50	RZB100DHHN
105/210	5.490	5.776	6.090	.370	.610	S3138-ND•	22.18	176.00	1056.00	RZB105DHHN
108/216	5.640	5.926	6.240	.370	.610	S3139-ND•	22.49	178.50	1071.00	RZB108DHHN
110/220	5.740	6.026	6.340	.370	.610	S3140-ND•	22.81	181.00	1086.00	RZB110DHHN
120/240	6.240	6.526	6.840	.370	.610	S3141-ND•	24.03	190.75	1144.50	RZB120DHHN
NEW! Fig. 5 .050" High Speed NEW!										
73/219	—	—	4.250	.465	.613	S3282-ND•	20.85	165.50	993.00	RPWB073GKHR-T621
80/240	—	—	4.600	.465	.613	S3283-ND•	26.05	206.75	1240.50	RPWB080GKHR-T621
90/270	—	—	5.100	.465	.613	S3284-ND•	36.92	293.00	1758.00	RPWB090GKHR-T621
100/300	—	—	5.600	.465	.613	S3285-ND•	49.23	390.75	2344.50	RPWB110GKHR-T621
NEW! Fig. 5 1mm Contact Centers NEW!										
5/10	0.507	0.793	1.107	.370	.610	S3149-ND•	13.48	107.00	642.00	RZE05DHHN
10/20	0.704	0.990	1.304	.370	.610	S3150-ND•	14.68	116.50	699.00	RZE10DHHN
15/30	0.901	1.187	1.501	.370	.610	S3151-ND•	15.97	126.75	760.50	RZE15DHHN
20/40	1.098	1.384	1.698	.370	.610	S3152-ND•	17.14	136.00	816.00	RZE20DHHN
25/50	1.295	1.581	1.895	.370	.610	S3153-ND•	18.43	146.25	877.50	RZE25DHHN
30/60	1.492	1.778	2.092	.370	.610	S3154-ND•	19.72	156.50	939.00	RZE30DHHN
35/70	1.689	1.975	2.289	.370	.610	S3155-ND•	21.01	166.75	1000.50	RZE35DHHN
40/80	1.885	2.171	2.485	.370	.610	S3156-ND•	22.30	177.00	1062.00	RZE40DHHN
45/90	2.082	2.368	2.682	.370	.610	S3157-ND•	23.50	186.50	1119.00	RZE45DHHN
50/100	2.279	2.565	2.879	.370	.610	S3158-ND•	24.79	196.75	1180.50	RZE50DHHN
Surface Mount										
NEW! Fig. 6 .050" Contact Centers NEW!										
6/12	0.540	0.826	1.140	.370	.610	S3204-ND•	10.43	82.75	496.50	RZB06DHFR
10/20	0.740	1.026	1.340	.370	.610	S3205-ND•	10.93	86.75	520.50	RZB10DHFR
13/26	0.890	1.176	1.490	.370	.610	S3206-ND•	11.25	89.25	535.50	RZB13DHFR
15/30	0.990	1.276	1.590	.370	.610	S3207-ND•	11.53	91.50	549.00	RZB15DHFR
20/40	1.240	1.526	1.840	.370	.610	S3208-ND•	12.06	95.75	574.50	RZB20DHFR
22/44	1.340	1.626	1.940	.370	.610	S3209-ND•	12.35	98.00	588.00	RZB22DHFR
25/50	1.490	1.776	2.090	.370	.610	S3210-ND•	12.66	100.50	603.00	RZB25DHFR
30/60	1.740	2.026	2.340	.370	.610	S3211-ND•	13.29	105.50	633.00	RZB30DHFR
34/68	1.940	2.226	2.540	.370	.610	S3212-ND•	13.80	109.50	657.00	RZB34DHFR
35/70	1.990	2.276	2.590	.370	.610	S3213-ND•	13.89	110.25	661.50	RZB35DHFR
40/80	2.240	2.526	2.840	.370	.610	S3214-ND•	14.52	115.25	691.50	RZB40DHFR
45/90	2.490	2.776	3.090	.370	.610	S3215-ND•	15.03	119.25	715.50	RZB45DHFR
50/100	2.740	3.026	3.340	.370	.610	S3216-ND•	15.66	124.25	745.50	RZB50DHFR
60/120	3.240	3.526	3.840	.370	.610	S3217-ND•	16.85	133.75	802.50	RZB60DHFR
64/128	3.440	3.726	4.040	.370	.610	S3218-ND•	17.29	137.25	823.50	RZB64DHFR
75/150	3.990	4.276	4.590	.370	.610	S3219-ND•	18.62	147.75	886.50	RZB75DHFR
80/160	4.240	4.526	4.840	.370	.610	S3220-ND•	19.22	152.50	915.00	RZB80DHFR
85/170	4.490	4.776	5.090	.370	.610	S3221-ND•	19.85	157.50	945.00	RZB85DHFR
95/190	4.990	5.276	5.590	.370	.610	S3222-ND•	20.98	166.50	999.00	RZB95DHFR
100/200	5.240	5.526	5.840	.370	.610	S3223-ND•	21.58	171.25	1027.50	RZB100DHFR
105/210	5.490	5.776	6.090	.370	.610	S3224-ND•	22.18	176.00	1056.00	RZB105DHFR
108/216	5.640	5.926	6.240	.370	.610	S3225-ND•	22.49	178.50	1071.00	RZB108DHFR
110/220	5.740	6.026	6.340	.370	.610	S3226-ND•	22.81	181.00	1086.00	RZB110DHFR
120/240	6.240	6.526	6.840	.370	.610	S3227-ND•	24.03	190.75	1144.50	RZB120DHFR
NEW! Fig. 6 1mm Contact Centers NEW!										
5/10	0.507	0.793	1.107	.370	.610	S3232-ND•	13.48	107.00	642.00	RZE05DHFR
10/20	0.704	0.990	1.304	.370	.610	S3233-ND•	14.68	116.50	699.00	RZE10DHFR
15/30	0.901	1.187	1.501	.370	.610	S3234-ND•	15.97	126.75	760.50	RZE15DHFR
20/40	1.098	1.384	1.698	.370	.610	S3235-ND•	17.14	136.00	816.00	RZE20DHFR
25/50	1.295	1.581	1.895	.370	.610	S3236-ND•	18.43	146.25	877.50	RZE25DHFR
30/60	1.492	1.778	2.092	.370	.610	S3237-ND•	19.72	156.50	939.00	RZE30DHFR
35/70	1.689	1.975	2.289	.370	.610	S3238-ND•	21.01	166.75	1000.50	RZE35DHFR
40/80	1.885	2.171	2.485	.370	.610	S3239-ND•	22.30	177.00	1062.00	RZE40DHFR
45/90	2.082	2.368	2.682	.370	.610	S3240-ND•	23.50	186.50	1119.00	RZE45DHFR
50/100	2.279	2.565	2.879	.370	.610	S3241-ND•	24.79	196.75	1180.50	RZE50DHFR
Right Angle										
NEW! Fig. 8 .050" Contact Centers NEW!										
6/12	0.540	0.826	1.140	.370	.915	S3242-ND	27.56	218.75	1312.50	RZB06DHAS
10/20	0.740	1.026	1.340	.370	.915	S3243-ND	28.60	227.00	1362.00	RZB10DHAS
13/26	0.890	1.176	1.490	.370	.915	S3244-ND	29.39	233.25	1399.50	RZB13DHAS
15/30	0.990	1.276	1.590	.370	.915	S3245-ND	30.05	238.50	1431.00	RZB15DHAS
20/40	1.240	1.526	1.840	.370	.915	S3246-ND	31.34	248.75	1492.50	RZB20DHAS
22/44	1.340	1.626	1.940	.370	.915	S3247-ND	32.00	254.00	1524.00	RZB22DHAS
25/50	1.490	1.776	2.090	.370	.915	S3248-ND	32.79	260.25	1561.50	RZB25DHAS
30/60	1.740	2.026	2.340	.370	.915	S3249-ND	34.21	271.50	1629.00	RZB30DHAS
34/68	1.940	2.226	2.540	.370	.915	S3250-ND	35.37	280.75	1684.50	RZB34DHAS
35/70	1.990	2.276	2.590	.370	.915	S3251-ND	35.63	282.75	1696.50	RZB35DHAS
40/80	2.240	2.526	2.840	.370	.915	S3252-ND	37.08	294.25	1765.50	RZB40DHAS
45/90	2.490	2.776	3.090	.370	.915	S3253-ND	38.40	304.75	1828.50	RZB45DHAS
50/100	2.740	3.026	3.340	.370	.915	S3254-ND	39.82	316.00	1896.00	RZB50DHAS
60/120	3.240	3.526	3.840	.370	.915	S3255-ND	42.68	338.75	2032.50	RZB60DHAS
64/128	3.440	3.726	4.040	.370	.915	S3256-ND	43.72	347.00	2082.00	RZB64DHAS
75/150	3.990	4.276	4.590	.370	.915	S3257-ND	46.84	371.75	2230.50	RZB75DHAS
80/160	4.240	4.526	4.840	.370	.915	S3258-ND	48.26	383.00	2298.00	RZB80DHAS
85/170	4.490	4.776	5.090	.370	.915	S3259-ND	49.71	394.50	2367.00	RZB85DHAS
95/190	4.990	5.276	5.590	.370	.915	S3260-ND	52.45	416.25	2497.50	RZB95DHAS
100/200	5.240	5.526	5.840	.370	.915	S3261-ND	53.87	427.50	2565.00	RZB100DHAS
105/210	5.490	5.776	6.090	.370	.915	S3262-ND	55.31	439.00	2634.00	RZB105DHAS
108/216	5.640	5.926	6.240	.370	.915	S3263-ND	56.20	446.00	2676.00	RZB108DHAS
110/220	5.740	6.026	6.340	.370	.915	S3264-ND	56.73	450.25	2701.50	RZB110DHAS
120/240	6.240	6.526	6.840	.370	.915	S3265-ND	59.60	473.00	2838.00	RZB120DHAN
NEW! Fig. 8 1mm Contact Centers NEW!										
5/10	0.507	0.793	1.107	.370	.915	S3272-ND	48.38	384.00	2304.00	RZE05DHAS
10/20	0.704	0.990	1.304	.370	.915	S3273-ND	49.80	395.25	2371.50	RZE10DHAS
15/30	0.901	1.187	1.501	.370	.915	S3274-ND	51.35	407.50	2445.00	RZE15DHAS
20/40	1.098	1.384	1.698	.370	.915	S3275-ND	52.76	418.75	2512.50	RZE20DHAS
25/50	1.295	1.581	1.895	.370	.915	S3276-ND	54.31	431.00	2586.00	RZE25DHAS
30/60	1.492	1.778	2.092	.370	.915	S3277-ND	55.85	443.25	2659.50	RZE30DHAS
35/70	1.689	1.975	2.289	.370	.915	S3278-ND	57.42	455.75	2734.50	RZE35DHAS
40/80	1.885	2.171	2.485	.370	.915	S3279-ND	58.97	468.00	2808.00	RZE40DHAS
45/90	2.082	2.368	2.682	.370	.915	S3280-ND	60.39	479.25	2875.50	RZE45DHAS
50/100	2.279	2.565	2.879	.370	.915	S3281-ND	61.93	491.50	2949.00	RZE50DHAS
Extender Card Bend										
NEW! Fig. 7 .050" Contact Centers NEW!										
6/12	0.540	0.826	1.140	.370	.610	S3164-ND•	9.83	78.00	468.00	RZB06DHRN
10/20	0.740	1.026	1.340	.370	.610	S3165-ND•	10.33	82.00	492.00	RZB10DHRN
13/26	0.890	1.176	1.490	.370	.610	S3166-ND•	10.65	84.50	507.00	RZB13DHRN
15/30	0.990	1.276	1.590	.370	.610	S3167-ND•	10.96	87.00	522.00	RZB15DHRN
20/40	1.240	1.526	1.840	.370	.610	S3168-ND•	11.47	91.00	546.00	RZB20DHRN
22/44	1.340	1.626	1.940	.370	.610	S3169-ND•	11.78	93.50	561.00	RZB22DHRN
25/50	1.490	1.776	2.090	.370	.610	S3170-ND•	12.10	96.00	576.00	RZB25DHRN
30/60	1.740	2.026	2.340	.370	.610	S3171-ND•	12.69	100.75	604.50	RZB30DHRN
34/68	1.940	2.226	2.540	.370	.610	S3172-ND•	13.20	104.75	628.50	RZB34DHRN
35/70	1.990	2.276	2.590	.370	.610	S3173-ND•	13.32	105.75	634.50	RZB35DHRN
40/80	2.240	2.526	2.840	.370	.610	S3174-ND•	13.92	110.50	663.00	RZB40DHRN
45/90	2.490	2.776	3.090	.370	.610	S3175-ND•	14.46	114.75	688.50	RZB45DHRN
50/100	2.740	3.026	3.340	.370	.610	S3176-ND•	15.06	119.50	717.00	RZB50DHRN
60/120	3.240	3.526	3.840	.370	.610	S3177-ND•	16.29	129.25	775.50	RZB60DHRN
64/128	3.440	3.726	4.040	.370	.610	S3178-ND•	16.70	132.50	795.00	RZB64DHRN
75/150	3.990	4.276	4.590	.370	.610	S3179-ND•	18.02	143.00	858.00	RZB75DHRN
80/160	4.240	4.526	4.840	.370	.610	S3180-ND•	18.65	148.00	888.00	RZB80DHRN
85/170	4.490	4.776	5.090	.370	.610	S3181-ND•	19.25	152.75	916.50	RZB85DHRN
95/190	4.990	5.276	5.590	.370	.610	S3182-ND•	20.38	161.75	970.50	RZB95DHRN
100/200	5.240	5.526	5.840	.370	.610	S3183-ND•	20.98	166.50	999.00	RZB100DHRN
105/210	5.490	5.776	6.090	.370	.610	S3184-ND•	21.61	171.50	1029.00	RZB105DHRN
108/216	5.640	5.926	6.240	.370	.610	S3185-ND•	21.92	174.00	1044.00	RZB108DHRN
110/220	5.740	6.026	6.340	.370	.610	S3186-ND•	22.21	176.25	1057.50	RZB110DHRN
120/240	6.240	6.526	6.840	.370	.610	S3187-ND•	23.44	186.00	1116.00	RZB120DHRN
NEW! Fig. 7 1mm Contact Centers NEW!										
5/10	0.507	0.793	1.107	.370	.610	S3193-ND•†	12.73	101.00	606.00	RZE05DHRN
10/20	0.704	0.990	1.304	.370	.610	S3194-ND•†	13.89	110.25	661.50	RZE10DHRN
15/30	0.901	1.187	1.501	.370	.610	S3195-ND•†	15.18	120.50	723.00	RZE15DHRN
20/40	1.098	1.384	1.698	.370	.610	S3196-ND•†	16.38	130.00	780.00	RZE20DHRN
25/50	1.295	1.581	1.895	.370	.610	S3197-ND•†	17.67	140.25	841.50	RZE25DHRN
30/60	1.492	1.778	2.092	.370	.610	S3198-ND•†	18.96	150.50	903.00	RZE30DHRN
35/70	1.689	1.975	2.289	.370	.610	S3199-ND•†	20.25	160.75	964.50	RZE35DHRN
40/80	1.885	2.171	2.485	.370	.610	S3200-ND•†	21.55	171.00	1026.00	RZE40DHRN
45/90	2.082	2.368	2.682	.370	.610	S3201-ND•†	22.71	180.25	1081.50	RZE45DHRN
50/100	2.279	2.565	2.879	.370	.610	S3202-ND•†	24.03	190.75	1144.50	RZE50DHRN
NEW! Peripheral Component Interconnect (PCI) Dual .050" Contact Centers NEW!										
60/120	3.340	3.626	3.940	.370	.610	S3188-ND•†‡	16.29	129.25	775.50	RZB60DHRN-S578
60/120	3.340	—	—	.350	.610	S3142-ND•‡‡	.72	5.75	34.50	TRWB060DKHN-T578
60/120	3.340	3.465	3.715	.350	.551	S3191-ND†‡‡	4.38	34.75	208.50	TRWB060DKRQ-T578
60/120	3.340	—	—	.350	.610	S3143-ND•‡‡§	1.01	8.00	48.00	TRWB060DKHN-T20
60/120	3.340	—	—	.350	.610	S3144-ND•‡‡§	1.73	13.75	82.50	TRXB060DKHN-T20
60/120	3.340	3.626	3.940	.370	.610	S3266-ND‡	42.87	340.25	2041.50	RZB60DHAS-S621
60/120	5.640	3.626	3.940	.370	.610	S3228-ND†‡§	16.85	133.75	802.50	RZB60DHFR-S621
60/120	3.340	—	—	.350	.551	S3269-ND‡‡	5.29	42.00	252.00	TRWB060DKAN-T621
60/120	3.340	—	—	.350	.610	S3286-ND‡‡	4.28	34.00	204.00	RPWB060DKFN-T578
92/184	5.040	5.326	5.640	.370	.610	S3267-ND‡	51.85	411.50	2469.00	RZB92DHAS-S250
92/184	5.040	5.326	5.640	.370	.610	S3229-ND‡§	20.66	164.00	984.00	RZB92DHFR-S250
92/184	5.040	—	—	.350	.841	S3270-ND‡‡	6.77	53.75	322.50	TRWB092DKAN-T250
92/184	5.040	5.326	5.640	.370	.610	S3268-ND‡	51.85	411.50	2469.00	RZB92DHAS-S329
92/184	5.040	5.326	5.640	.370	.610	S3230-ND‡§	20.66	164.00	984.00	RZB92DHFR-S329
92/184	5.040	—	—	.350	.841	S3271-ND‡‡	6.77	53.75	322.50	TRWB092DKAN-T329
92/184	5.040	5.326	5.640	.370	.610	S3189-ND†‡	20.07	159.25	955.50	RZB92DHRN-S378
92/184	5.040	—	—	.350	.610	S3145-ND‡‡	5.99	47.50	285.00	TRWB092DKHN-T378
92/184	5.040	5.165	5.415	.350	.550	S3192-ND†‡‡	6.93	55.00	330.00	RPWB092DKRQ-T378
92/184	5.040	—	—	.350	.610	S3146-ND‡‡§	3.15	25.00	150.00	TRWB092DKHN-T20
92/184	5.040	5.326	5.640	.370	.610	S3190-ND†‡	20.07	159.25	955.50	RZB92DHRN-S330
92/184	5.040	—	—	.350	.610	S3147-ND•‡‡	5.99	47.50	285.00	TRWB092DKHN-T330
92/184	5.040	—	—	.350	.610	S3148-ND‡‡§	3.15	25.00	150.00	TRWB092DKHN-T26
NEW! AGP Connector NEW!										
66/132	(1.0mm AGP w/ locking feature)					S3159-ND	3.40	27.00	162.00	TPWE066DKHN-T6
90/180	(u-AGP-PRO)					S3161-ND	2.27	18.00	108.00	TPWE090DKHN-TAGP
66/132	(1.0mm AGP Edge Card)					S3203-ND†	6.11	48.50	291.00	LPWE066DKRN-TAGP
66/132	(Universal AGP)					S3160-ND	1.17	9.25	55.50	TPWE066DKHN-TUGP
NEW! Slot 1 Connector NEW!										
121/242	(Slot 1 Pin connector)					S3162-ND	2.90	23.00	138.00	TPWE121DKHN-T621

• No Mounting Ears †† .165" Post Length † Card Extender ‡ Hairpin Bellows ‡‡ Cantilever § Metal Boardlocks

HRS HIROSE ELECTRIC CO.,LTD.

DIN Connectors

Fig. 1

2-Row, Plug, Right-Angle Type

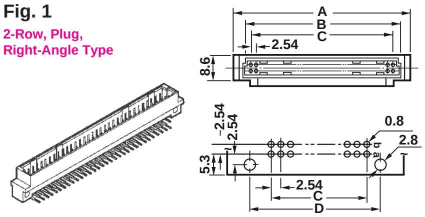


Fig. 2

2-Row, Plug, Straight Type

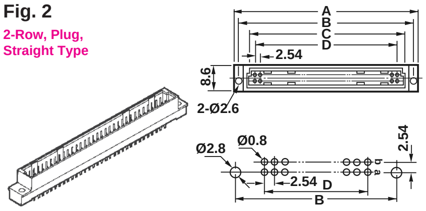


Fig. 3

2-Row, Socket, Right-Angle Type

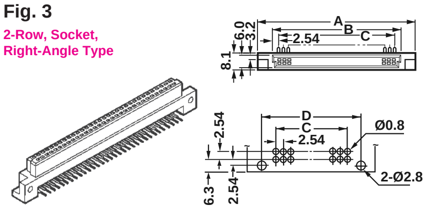
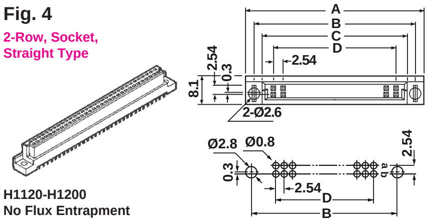


Fig. 4

2-Row, Socket, Straight Type



H1120-H1200
No Flux Entrapment

Fig. 5

3-Row, Plug, Right-Angle Type

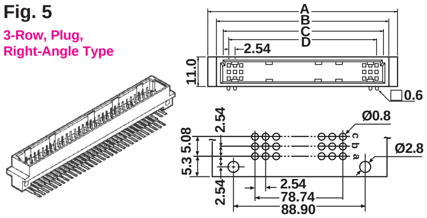


Fig. 6

3-Row, Plug, Straight Type

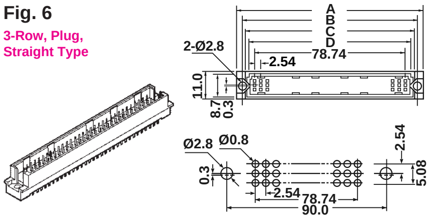


Fig. 7

3-Row, Socket, Right-Angle Type

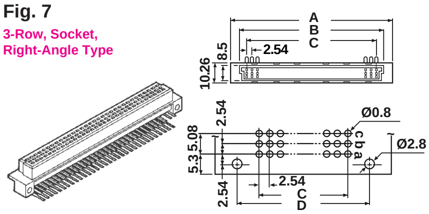


Fig. 8

3-Row, Socket, Straight Type

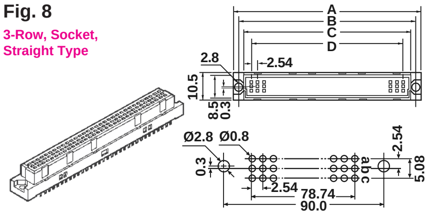


Fig.	No. of Rows	No. of Pins	Type	Dimensions (mm)				Digi-Key Part No	Pricing					Hirose Part No.
				A	B	C	D		1	10	100	500	1,000	
1	2	20	Plug-Right Angle	38.12	29.47	22.86	33.02	H1020-ND	2.67	22.14	164.00	615.00	1090.60	PCN10-20P-2.54DS
		32	Plug-Right Angle	53.26	44.71	38.10	48.26	H1032-ND	3.12	25.92	192.00	720.00	1276.80	PCN10-32P-2.54DS
		44	Plug-Right Angle	68.60	59.95	53.34	63.50	H1044-ND	2.94	25.68	181.90	722.25	1391.00	PCN10-44P-2.54DS
		50	Plug-Right Angle	76.22	67.57	60.96	71.12	H1050-ND	2.64	23.04	163.20	648.00	1248.00	PCN10-50P-2.54DS
		64	Plug-Right Angle	94.00	85.35	78.74	88.90	H1064-ND	3.00	26.16	185.30	735.75	1417.00	PCN10-64P-2.54DS
		90	Plug-Right Angle	127.02	118.37	111.76	121.92	H1090-ND	4.43	38.64	273.70	1086.75	2093.00	PCN10-90P-2.54DS
		100	Plug-Right Angle	139.72	131.07	124.46	134.62	H1100-ND	3.85	33.60	238.00	945.00	1820.00	PCN10-100P-2.54DS
2	2	20	Plug-Straight	43.3	38.1	29.47	22.86	H2020-ND	2.05	17.01	126.00	472.50	837.90	PCN10-20P-2.54DSA
		32	Plug-Straight	58.34	53.34	44.71	38.10	H2032-ND	2.41	19.98	148.00	555.00	984.20	PCN10-32P-2.54DSA
		44	Plug-Straight	73.58	68.10	59.95	53.34	H2044-ND	2.54	21.06	156.00	585.00	1037.40	PCN10-44P-2.54DSA
		50	Plug-Straight	81.40	76.20	67.57	60.96	H2050-ND	2.78	24.24	171.70	681.75	1313.00	PCN10-50P-2.54DSA
		64	Plug-Straight	99.18	93.98	85.34	78.74	H2064-ND	3.22	28.08	198.90	789.75	1521.00	PCN10-64P-2.54DSA
		90	Plug-Straight	132.20	127.00	118.37	111.76	H2090-ND	5.03	43.92	311.10	1235.25	2379.00	PCN10-90P-2.54DSA
3	2	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H2120-ND	2.81	24.48	173.40	688.50	1326.00	PCN10C-20S-2.54DS
		32	Socket-Right Angle	58.34	44.36	38.10	53.34	H2132-ND	3.77	32.88	232.90	924.75	1781.00	PCN10C-32S-2.54DS
		44	Socket-Right Angle	73.58	59.60	53.34	68.58	H2144-ND	4.84	42.24	299.20	1188.00	2288.00	PCN10C-44S-2.54DS
		50	Socket-Right Angle	81.20	67.22	60.96	76.20	H2150-ND	5.12	44.64	316.20	1255.50	2418.00	PCN10C-50S-2.54DS
		64	Socket-Right Angle	98.98	85.00	78.74	93.98	H2164-ND	6.60	57.60	408.00	1620.00	3120.00	PCN10C-64S-2.54DS
		90	Socket-Right Angle	132.00	118.02	111.76	127.00	H2190-ND	7.48	65.78	493.35	1988.35	3812.25	PCN10C-90S-2.54DS
		100	Socket-Right Angle	144.70	130.72	124.46	139.70	H2200-ND	8.52	74.55	568.00	2263.13	4348.75	PCN10C-100S-2.54DS
3	2	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H3020-ND	2.34	19.44	144.00	540.00	957.60	PCN13-20S-2.54DS
		32	Socket-Right Angle	58.34	44.36	38.10	53.43	H3032-ND	2.86	23.76	176.00	660.00	1170.40	PCN13-32S-2.54DS
		44	Socket-Right Angle	73.58	59.60	53.34	68.58	H3044-ND	2.86	24.96	176.80	702.00	1352.00	PCN13-44S-2.54DS
		50	Socket-Right Angle	81.20	67.22	60.96	76.20	H3050-ND	3.52	30.72	217.60	864.00	1664.00	PCN13-50S-2.54DS
		64	Socket-Right Angle	98.98	85.00	78.74	93.98	H3064-ND	3.58	31.20	221.00	877.50	1690.00	PCN13-64S-2.54DS
		90	Socket-Right Angle	132.00	118.02	111.76	127.00	H3090-ND	4.57	39.84	282.20	1120.50	2158.00	PCN13-90S-2.54DS
		100	Socket-Right Angle	144.70	130.72	124.46	139.70	H3100-ND	4.95	43.20	306.00	1215.00	2340.00	PCN13-100S-2.54DS
4	2	20	Socket-Straight	39.12	34.12	29.12	22.86	H1120-ND	4.57	39.84	282.20	1120.50	2158.00	PCN10C-20S-2.54DSA
		32	Socket-Straight	54.36	49.36	44.36	38.10	H1132-ND	3.52	30.72	217.60	864.00	1664.00	PCN10C-32S-2.54DSA
		44	Socket-Straight	69.60	64.60	59.60	53.34	H1144-ND	4.90	42.72	302.60	1201.50	2314.00	PCN10C-44S-2.54DSA
		50	Socket-Straight	77.22	72.22	67.22	60.96	H1150-ND	5.12	44.64	316.20	1255.50	2418.00	PCN10C-50S-2.54DSA
		64	Socket-Straight	95.00	90.00	85.00	78.74	H1164-ND	6.13	53.52	379.10	1505.25	2899.00	PCN10C-64S-2.54DSA
		90	Socket-Straight	128.02	123.02	118.02	111.76	H1190-ND	7.15	62.92	471.90	1901.90	3646.50	PCN10C-90S-2.54DSA
		100	Socket-Straight	140.72	135.72	130.72	124.46	H1200-ND	7.13	62.70	470.25	1895.25	3633.75	PCN10C-100S-2.54DSA
4	2	32	Socket-Straight-W/W	54.36	49.36	43.36	38.10	H4232-ND	6.68	58.32	413.10	1640.25	3159.00	PCN10-32S-2.54WB
		50	Socket-Straight-W/W	77.22	72.22	67.22	60.96	H4250-ND	8.47	74.13	564.80	2250.38	4324.25	PCN10-50S-2.54WB
		64	Socket-Straight-W/W	95.00	99.00	85.00	78.74	H4264-ND	10.15	88.83	676.80	2696.63	5181.75	PCN10-64S-2.54WB
		90	Socket-Straight-W/W	128.02	123.00	118.00	111.76	H4290-ND	12.35	108.78	911.40	3748.50	7203.00	PCN10-90S-2.54WB
		20	Socket-Straight	39.12	34.12	29.12	22.86	H4020-ND	1.72	14.31	106.00	397.50	704.90	PCN13-20S-2.54DSA
		32	Socket-Straight	54.36	49.36	44.36	38.10	H4032-ND	2.05	17.01	126.00	472.50	837.90	PCN13-32S-2.54DSA
		44	Socket-Straight	69.60	64.60	59.60	53.34	H4044-ND	2.37	19.71	146.00	547.50	970.90	PCN13-44S-2.54DSA
		50	Socket-Straight	77.22	72.22	67.22	60.96	H4050-ND	2.63	21.87	162.00	607.50	1077.30	PCN13-50S-2.54DSA
		64	Socket-Straight	95.00	90.00	85.00	78.74	H4064-ND	3.02	25.11	186.00	697.50	1236.90	PCN13-64S-2.54DSA
		90	Socket-Straight	128.02	123.02	118.02	111.76	H4090-ND	3.27	28.56	202.30	803.25	1547.00	PCN13-90S-2.54DSA
		100	Socket-Straight	140.72	135.72	130.72	124.46	H4100-ND	3.55	30.96	219.30	870.75	1677.00	PCN13-100S-2.54DSA
4	2	64	Socket-Straight	95.00	90.00	85.00	78.74	H8164-ND	6.00	52.32	370.60	1471.50	2834.00	PCN10MC-64S-2.54DSA
		100	Socket-Straight	140.72	135.72	130.72	124.46	H8200-ND	8.90	77.91	593.60	2365.13	4544.75	PCN10MC-100S-2.54DSA
1	2	64	Plug-Right Angle	94.00	85.35	78.74	88.90	H5164-ND	5.69	49.68	351.90	1397.25	2691.00	PCN10MC-64P-2.54DS
		100	Plug-Right Angle	139.72	131.07	124.46	134.62	H5200-ND	6.35	55.44	392.70	1559.25	3003.00	PCN10MC-100P-2.54DS
5	3	64*	Plug-Right Angle	94.00	88.00	85.25	78.74	H5064-ND	4.15	36.24	256.70	1019.25	1963.00	PCN10-64ACP-2.54DS
		96	Plug-Right Angle	94.00	88.00	85.25	78.74	H5096-ND	4.46	38.88	275.40	1093.50	2106.00	PCN10-96P-2.54DS
		96	Plug-Right Angle	94.00	88.00	85.25	78.74	H5196-ND	7.35	64.68	485.10	1955.10	3748.50	PCN10MC-96P-2.54DS
6	3	64*	Plug-Straight	95.00	90.00	88.00	85.25	H6064-ND	3.86	31.92	239.40	897.75	1729.00	PCN10-64ACP-2.54DSA
		96	Plug-Straight	95.00	90.00	88.00	85.25	H6096-ND	6.05	52.80	374.00	1485.00	2860.00	PCN10-96P-2.54DSA
7	3	64*	Socket-Right Angle	94.00	85.00	78.74	88.90	H7064-ND	4.26	37.20	263.50	1046.25	2015.00	PCN13-64ACS-2.54DS
		96	Socket-Right Angle	94.00	85.00	78.74	88.90	H7096-ND	5.20	45.36	321.30	1275.75	2457.00	PCN13-96S-2.54DS
8	3	96	Socket-Straight	95.00	90.00	85.00	78.74	H8196-ND	6.27	54.72	387.60	1539.00	2964.00	PCN10MC-96S-2.54DSA
		64*	Socket-Straight	95.00	90.00	85.00	78.74	H8064-ND	5.06	44.16	312.80	1242.00	2392.00	PCN10-64ACS-2.54DSA
		96	Socket-Straight	95.00	90.00	85.00	78.74	H8096-ND	3.66	31.92	226.10	897.75	1729.00	PCN13-96S-2.54DSA
		96	Socket-Straight-W/W	95.00	90.00	85.00	78.74	H8296-ND	12.77	112.48	942.40	3876.00	7448.00	PCN10-96S-2.54WB

* 64 pins; in 3-row format with pins on outside rows and middle row open.

DIN Connectors

Specification: • Housing: Polyester, grey, 94V-0 rated

Fig.	No. of Rows	No. of Pins	DIN Performance Rating	Dimensions – Inch (mm)			Digi-Key Part No.	Price Each		AMP Part No.
				A	B	C		1	25	
Brass Contacts										
Type B Right Angle Plug With Solder Posts										
1	2	32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A29001-ND	2.19	2.04	536053-5
		64		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A1250-ND	3.15	2.83	536052-5
		64		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29000-ND†	3.11	2.89	536385-5
Type C Plug, Right Angle										
3	2	32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A1276-ND	2.12	1.97	650946-5
	3	48		2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A1275-ND	2.36	2.12	650478-5
	3	48		2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A29005-ND†	2.77	2.57	650916-5
	3	48		2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A1281-ND	2.36	2.12	650948-5
	2	64		3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A1280-ND	2.83	2.54	650951-5
	2	64	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A29008-ND†	2.73	2.54	536406-5
	3	64*				.104 (2.64)	A29013-ND†	2.73	2.54	536356-5
	3	64*				.104 (2.64)	A1255-ND	2.82	2.53	650945-5
	3	96				.130 (3.30)	A1279-ND	3.38	3.03	650947-5
	3	96				.130 (3.30)	A29007-ND†	3.20	2.98	536405-5
	3	96	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A1254-ND	3.37	3.02	650473-5
			2				A29009-ND§	3.81	3.54	536010-5
			2				A29010-ND†§	4.17	3.88	536416-5
			2				A29012-ND†	3.20	2.98	650913-5
			3				A29011-ND	3.30	3.07	650473-9
	3	120	2	4.500 (114.30)	3.900 (99.06)	.104 (2.64)	A1277-ND	5.07	4.54	650906-5
		120		4.500 (114.30)	3.900 (99.06)	.130 (3.30)	A1283-ND	5.07	4.54	650949-5
		150		5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A1278-ND	5.32	4.94	650907-5
		150		5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A29006-ND†	5.54	5.15	650915-5
Type R Vertical Plug with Solder Posts										
5	3	32*	2	2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A1238-ND	1.97	1.83	650936-5
		48	2			.130 (3.30)	A29035-ND	1.96	1.83	650479-5
		48	3			.130 (3.30)	A29036-ND	2.19	2.04	650479-9
		48	2			.180 (4.57)	A1237-ND	2.28	2.05	650477-5
		64*	2			.130 (3.30)	A29034-ND	2.32	2.16	650933-5
	3	64*	2	3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A1261-ND	2.70	2.42	650934-5
		96		3.740 (95.00)	3.543 (89.99)	.130 (3.30)	A29032-ND	2.84	2.64	650908-5
		96		3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A1260-ND	3.28	2.94	650470-5
		120		4.535 (115.19)	4.343 (110.31)	.180 (4.57)	A1239-ND	3.98	3.70	650910-5
		120		4.535 (115.19)	4.343 (110.31)	.130 (3.30)	A29037-ND	3.98	3.70	650919-5
	3	150	2	5.535 (140.59)	5.343 (135.71)	.180 (4.57)	A1297-ND	4.76	4.42	650911-5
Phosphor Bronze Contacts										
Type B Vertical Receptacle										
2	2	32	2	2.100 (53.34)	1.943 (49.35)	.180 (4.57)	A1253-ND	2.93	2.73	650858-5
		64	2	3.700 (93.98)	3.543 (89.99)	.098 (2.49)	A29002-ND	2.91	2.71	650859-5
		64	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29003-ND	2.91	2.71	650860-5
		64	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1252-ND	3.38	3.03	650861-5
		64	—	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29004-ND	3.59	3.34	650861-4
Type C Vertical Receptacle										
4	3	48	2	2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A1287-ND	3.38	3.03	535070-5
		48		2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A29022-ND	2.91	2.71	535070-4
		48		2.100 (53.34)	1.944 (49.37)	.180 (4.57)	A29023-ND	2.91	2.71	535071-4
		64*		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1259-ND	3.38	3.03	650408-5
		64*		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A1286-ND	3.38	3.03	650956-5
	3	64*	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29020-ND†	3.27	3.04	650983-5
		64*				.180 (4.57)	A29021-ND	3.04	2.83	650408-4
		96				.180 (4.57)	A1258-ND	4.05	3.63	535043-5
		96				.130 (3.30)	A1285-ND	4.05	3.63	535090-5
		96				.130 (3.30)	A29014-ND	3.48	3.24	535090-4
4	3	96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29015-ND†	3.89	3.62	650963-4
			3			.130 (3.30)	A29016-ND	4.48	4.16	535090-9
			2			.180 (4.57)	A29017-ND	3.49	3.25	535043-4
			2			.180 (4.57)	A29018-ND†	4.62	4.29	536412-4
			3			.180 (4.57)	A29019-ND	4.48	4.16	535043-9
	3	120	2	4.500 (114.30)	4.343 (110.31)	.130 (3.30)	A1289-ND	5.56	4.98	535098-5
		120		4.500 (114.30)	4.343 (110.31)	.180 (4.57)	A29025-ND	4.73	4.40	535099-5
		150		5.500 (139.70)	5.343 (135.71)	.130 (3.30)	A1290-ND	7.38	6.59	650405-5
		150		5.500 (139.70)	5.343 (135.71)	.180 (4.57)	A29027-ND	6.38	5.93	650406-5
Type C Vertical Receptacle with Action Pin For PC Board Mount — .012" x .024" (0.30mm x 0.61mm)										
4	3	32*	2	2.100 (53.34)	1.944 (49.38)	.190 (4.83)	A1294-ND	2.64	2.45	535068-5
		48	3	2.100 (53.34)	1.944 (49.37)		A29030-ND	3.02	2.81	535034-9
		48	2	2.100 (53.34)	1.944 (49.38)		A1293-ND	2.80	2.61	535034-5
		64*	2	3.700 (93.98)	3.543 (89.99)		A29029-ND	3.09	2.88	535059-4
		64*	2	3.700 (93.98)	3.543 (89.99)		A1292-ND	3.59	3.22	535059-5
	3	96	2	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A1291-ND	4.05	3.63	535032-4
		96	3	3.700 (93.98)	3.543 (89.99)		A29028-ND	3.49	3.25	535032-9
		120	2	4.500 (114.30)	4.343 (110.31)		A1295-ND	5.01	4.66	535079-5
		150	2	5.500 (139.70)	5.343 (135.71)		A1296-ND	6.66	6.19	535080-5
Type R Vertical Plug with Action Pin Posts										
5	3	32*	2	2.140 (54.36)	1.943 (49.35)	.250 (6.35)	A1244-ND	2.19	2.04	650931-5
		32*		2.140 (54.36)	1.943 (49.35)	.521 (13.23)	A1268-ND	2.30	2.14	650932-5
		48		2.140 (54.36)	1.943 (49.35)	.250 (6.35)	A1243-ND	2.44	2.27	650918-5
		64*		3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A1242-ND	3.29	2.95	650912-5
		64*		3.740 (95.00)	3.543 (89.99)	.521 (13.23)	A1266-ND	3.42	3.07	650930-5
	3	96	2	3.740 (95.00)	3.543 (89.99)	.521 (13.23)	A1265-ND	4.23	3.79	650909-5
		96		3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A1241-ND	3.29	2.95	650889-5
		120		4.535 (115.19)	4.343 (110.31)	.250 (6.35)	A1245-ND	4.20	3.90	650921-5
		150		5.535 (140.59)	5.343 (135.71)	.250 (6.35)	A1246-ND	4.98	4.63	650924-5

Fig. 1

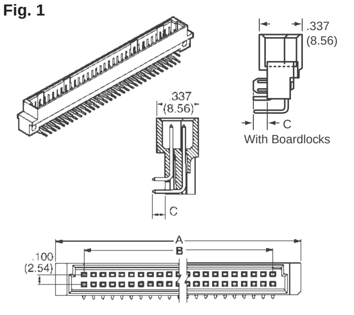


Fig. 2

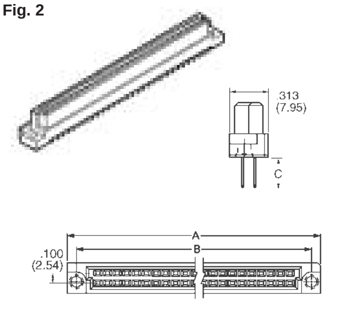


Fig. 3

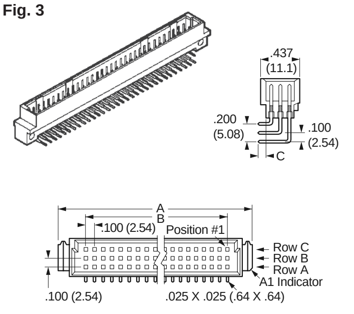


Fig. 4

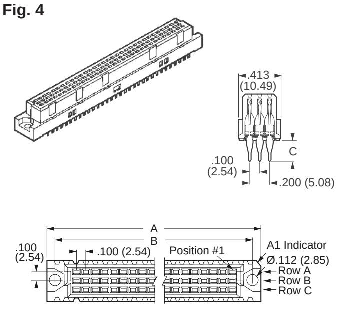
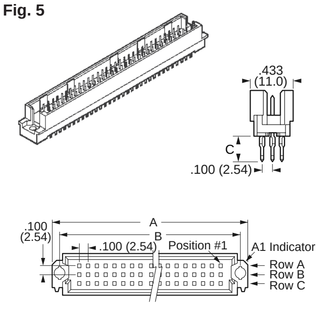


Fig. 5



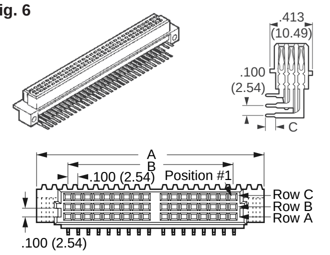
* In 3-row format with pins on outside rows and middle row open † With Boardlock § High Temperature Housing

(Continued)

AMP tyco Electronics Authorized Distributor DIN Connectors *(Cont.)*

Fig.	No. of Rows	No. of Pins	DIN Performance Rating	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Type R Right Angle Receptacle										
6	3	48	2	2.096 (53.24)	1.500 (48.26)	.110 (2.79)	A29041-ND	2.90	2.70	650868-4
		48		2.096 (53.24)	1.500 (48.26)	.110 (2.79)	A1271-ND	3.37	3.02	650868-5
		48		2.096 (53.24)	1.500 (48.26)	.110 (2.79)	A29042-ND†	3.75	3.49	650893-4
		64*		3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A1263-ND	3.59	3.22	650870-4
		96		3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A29044-ND	3.78	3.51	650462-4
	3	96	3	3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A1264-ND	4.39	3.93	650462-5
			2	3.696 (93.88)		.110 (2.79)	A29038-ND	3.75	3.49	650461-4
			2	3.696 (93.88)		.110 (2.79)	A1262-ND	4.39	3.93	650461-5
			2	3.696 (93.88)		.110 (2.79)	A29039-ND†	4.12	3.83	650895-4
			3	3.696 (93.88)		.110 (2.79)	A29040-ND	3.81	3.54	650461-9
	3	120	2	4.496 (114.20)	3.900 (99.06)	.110 (2.79)	A1273-ND	5.92	5.30	650874-5
		150		5.496 (139.60)	4.900 (124.46)		A1274-ND	6.92	6.43	650875-5

Fig. 6



* In 3-row format with pins on outside rows and middle row open † With Boardlock § High Temperature Housing

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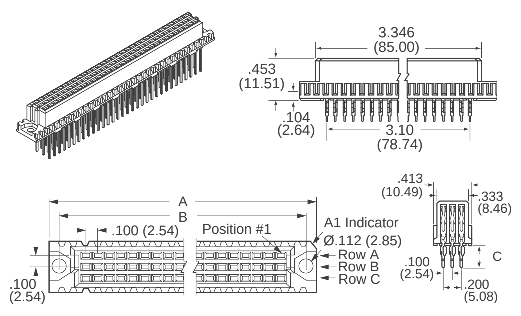
AMP tyco Electronics Authorized Distributor Eurocard Din Connectors

Din Connectors (Mtg. Pin Size - .025" (.64mm) Square)

Material: • Housing: Polyester, grey 94V-0 rated • Contacts: Phosphor bronze and copper alloy

No. of Rows	No. of Pins	Dimension - Inch (mm) A	B	Post Length Inch (mm) (C)	Digi-Key Part No.	Price Each 1	25	Amp Part No.
Type C Vertical Receptacle with Action Pin Posts								
Standard Size (PCB Thickness .093" (2.36mm) and Above)								
3	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29047-ND	11.56	10.74	215912-4
					A29048-ND†	13.55	12.59	1-215912-4
Standard Size (PCB Thickness .062" (1.57mm) and .093" (2.36mm) and Above)								
3	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29049-ND	5.54	5.15	148057-5
				.521 (13.23)	A29052-ND†	9.63	8.03	1-148057-5
				.669 (16.99)	A29051-ND	5.77	5.36	148059-5
				.669 (16.99)	A29050-ND†	9.18	8.53	1-148059-5
Type C Right Angle Plug with Action Pin Posts								
Standard Size (PCB Thickness .062" (1.57mm) and .093" (2.36mm) and Above)								
3	96	3.689 (93.70)	3.500 (88.90)	.114 (2.90)	A29053-ND	9.27	8.61	215605-4

† Precious metal plating in contact area and for 5.08 (.200) from tip of post; gold flash on remainder of post.

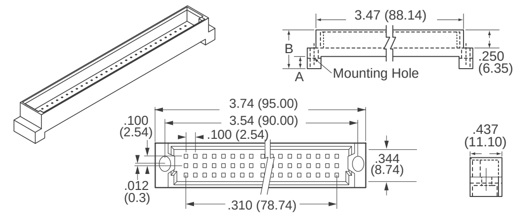


Shrouds

Shrouds are for use with all 96 position, 3 row, type C and R connectors (without mounting holes) mounted in .125" (3.18mm), .093" (2.36mm) and .062" (1.57mm) thick PC boards. Twelve interference areas are located in selected cavities.

Material: Polyester, grey, 94V-0 rated

PC Board Thickness - Inch (mm)	Use With Post Length - Inch (mm)	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
.125 (3.18)	.521 (13.23)	.100 (2.54)	.450 (11.43)	A29058-ND	2.10	1.95	533236-4
.125 (3.18)	.669 (16.99)	.250 (6.35)	.600 (15.24)	A29059-ND	2.10	1.95	533236-5
.093 (2.36)	.521 (13.23)	.135 (3.43)	.485 (12.32)	A29060-ND	2.10	1.95	533236-7
.062 (1.57)	.521 (13.23)	.165 (4.19)	.515 (13.08)	A29061-ND	4.20	3.90	1-533236-0
With Mounting Holes							
.125 (3.18)	.521 (13.23)	.100 (2.54)	.450 (11.43)	A29062-ND	2.10	1.95	535074-1



Keying Systems

Material: Polycarbonate, red, 94V-1 rated

Fig. 1

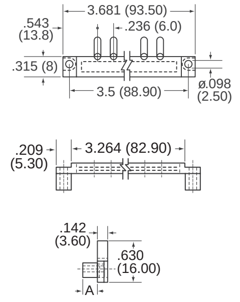


Fig. 2

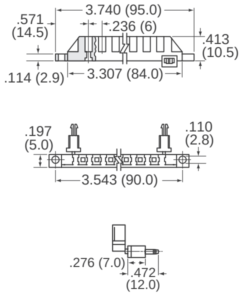
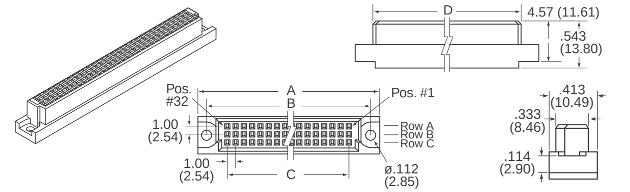


Fig.	Connector Type	Dimension Inch (mm) A	Digi-Key Part No.	Price Each 1	25	Amp Part No.
Pin Assembly Keying Strip						
1	C, D, F*, R	.236 (6.00)	A29065-ND	1.32	1.23	926495-1
	C, D, R	.165 (4.20)	A29066-ND	1.79	1.67	926495-4
Receptacle Assembly Keying Strip						
2	B, C, D, F, Q, R	—	A29067-ND†	1.74	1.62	926495-2

* Use this keying system only † Two Keying plugs are molded to the strip, additional quantities of plugs can be ordered separately (Keying Plug Part No. 926495-3)

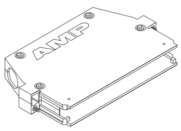
Vertical Receptacle Housing
(For Crimp Snap-In Receptacle Contacts)

Material: Housing - Polycarbonate, grey, 94V-1 rated



No. of Rows	No. of Pins	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	Amp Part No.
Type C									
3	96	3.740 (95.00)	3.540 (90.00)	3.100 (78.74)	3.299 (83.80)	A29054-ND	6.75	6.27	925486-1
	48	2.142 (54.40)	1.949 (49.50)	1.500 (38.10)	1.740 (44.20)	A29055-ND	5.71	5.31	926040-2
Tools (not pictured)									
Tandem Spring Hand Tool						A29056-ND	616.46	—	90301-2
Extraction Tool						A29057-ND	74.82	—	91156-2

Two-piece Cable Clamp Assemblies

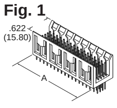


Material: Thermoplastic, grey, 94V-1 rated
Note: Kits are packaged unassembled.
Includes: Cover (shell half), Screw M 2.5 (.10) x DIN 84, Hex. Nut M2.5 (.10) DIN 439, Cable outlet closing plate, Cable Boot, Screw M 2.5 (.10) x DIN 84, Strain Relief Clamp, Fixture for 180 degrees Far. Cable outlet
Not supplied in kit: Guide Bracket, Pin Assembly, Receptacle Assembly

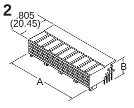
A29063-ND Cable Hood Kit, Type C and Type D **$24.08/1, $559.00/25**

AMP tyco Electronics
Authorized Distributor

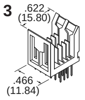
Z-Pack 2mm FB (Futurebus+) Connectors

Fig. 1


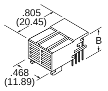
Signal Module, Vertical Pin

Fig. 2


Signal Module, Right-Angle Receptacle

Fig. 3


Power Module, Vertical Pin

Fig. 4


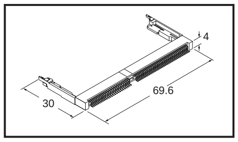
Power Module, Right Angle Receptacle

The Z-PACK 2mm FB two-piece connector system uses a modular concept and a 2mm contact pitch to provide high-density, high-speed signal and power connections for Futurebus+ and Futurebus+ “like” applications. **Product Facts:** • High-density connections; four-row, 2mm x 2mm circuit grid • Modular design for signal and power connections • Designed to meet International Specifications IEC 1076-4-0X (48B) and EIA IS 64 • Module assemblies are end-to-end stackable • Choice of solder leads or compliant press-fit leads • Flat rock receptacle tooling • Unique “cold hold” receptacle retention feature requires no tooling for lower applied cost • Integral receptacle lead organizer **Pin and Receptacle Contacts:** Duplex plated gold flash over 0.0008 (.000030) min. palladium-nickel on mating surface, 0.0038 (.000150) min. tin-lead on solder lead, with entire contact underplated 0.0013 (.000050) nickel **Pin Contacts:** Phosphor bronze **Receptacle Contacts:** Copper alloy 18C **Housing:** Liquid crystal polymer

Fig.	Description	No.of Pos.	Dim. – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	With Solder Leads	24	.468 (11.89)	—	A3262-ND	2.33	2.12	536501-1
		48	.940 (23.88)	—	A3263-ND	3.87	3.51	536501-2
		96	1.885 (47.88)	—	A3264-ND	8.71	7.80	536501-3
		192	3.775 (95.89)	—	A3265-ND	12.35	11.19	536501-4
	With Compliant Press-Fit Leads	24	.468 (11.89)	—	A3266-ND	2.36	2.14	536504-1
		48	.940 (23.88)	—	A3267-ND	3.87	3.51	536504-2
		96	1.885 (47.88)	—	A3268-ND	8.71	7.80	536504-3
		192	3.775 (95.89)	—	A3269-ND	15.15	13.52	536504-4
2	With Solder Leads	24	.468 (11.89)	.107 (2.72)	A3270-ND	2.54	2.31	536507-1
		48	.940 (23.88)	.107 (2.72)	A3271-ND	5.30	4.76	536507-2
		96	1.885 (47.88)	.107 (2.72)	A3272-ND	9.49	8.50	536507-3
		192	3.775 (95.89)	.107 (2.72)	A3273-ND	16.67	14.93	536507-4
		24	.468 (11.89)	.139 (3.53)	A3274-ND	3.12	2.80	536510-1
		48	.940 (23.88)	.139 (3.53)	A3275-ND	5.30	4.76	536510-2
		96	1.885 (47.88)	.139 (3.53)	A3276-ND	9.49	8.50	536510-3
		192	3.775 (95.89)	.139 (3.53)	A3277-ND	16.67	14.93	536510-4
	With Compliant Press-Fit Leads	24	.468 (11.89)	—	A3278-ND	1.92	1.73	536511-1
		48	.940 (23.88)	—	A3279-ND	5.30	4.76	536511-2
		96	1.885 (47.88)	—	A3280-ND	9.49	8.50	536511-3
		192	3.775 (95.89)	—	A3281-ND	16.67	14.93	536511-4
3	With Solder Leads	8	—	—	A3282-ND	2.57	2.33	536600-1
	With Compliant Press-Fit Leads	8	—	—	A3283-ND	2.57	2.33	536603-1
4	With Solder Leads	8	—	.107 (2.72)	A3284-ND	2.83	2.54	536607-1
		8	—	.139 (3.53)	A3285-ND	5.62	5.09	536613-1
	With Compliant Press-Fit Leads	8	—	—	A3286-ND	4.66	4.23	536614-1

HIROSE ELECTRIC CO.,LTD.

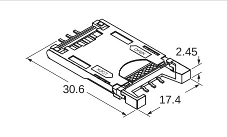
DIMM Sockets — SX6E Series



Features: The SX6E Series are 0.8mm pitch horizontal SMT type sockets conforming to the 144-pin, 8-byte Small Outline DIMM specification which has been standardized by JEDEC. These miniature, lightweight sockets succeed in establishing a mounting height of only 4mm.
Applications: Personal computers, office automation equipment, measuring instruments, communications equipment, medical equipment, factory automation, game machines, EWS, general-use computers, etc.
Ratings: Temp. Range: -55°C to +85°C Volt: 25V AC Current: 0.3A

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
144	Conn DIMM SMD	H2341-ND	4.81	3.74	2.99	SX6E-144S-O.8SH(20)

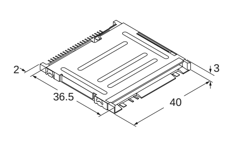
SIM Card Sockets — ID1A Series



Features: Suited for Plug-in SIM Cards of the GSM Standard (11.11). SIM card Subscriber Identity Modules are used for subscriber identification with portable telephone terminals having (or using) GSM standard (11.11) plug-in SIM cards. These sockets are miniature and thin with a height of 2.45mm, length of 30.6mm, and width of 17.4mm.
Applications: Portable terminals and equipment that uses GSM Standard (11.11) plug-in SIM cards.
Ratings: Current: 1A Temp. Range: -30°C to +80°C. Volt: 100V AC

Digi-Key Part No.	Bulk Price Each 1	25	100	Hirose Part No.	Digi-Key Part No.	T & R Pricing 500	Hirose Part No.
H1016-ND	2.96	2.28	1.82	ID1A-6S-2.54SF	H1016TR-ND	742.50	ID1A-6S-2.54SF(21)

SmartMedia Connectors — MCR 102 Series

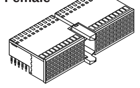
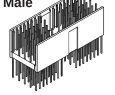
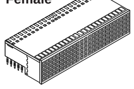
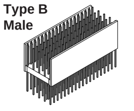
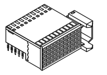
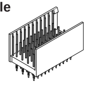


Features: The MCR102 Series of miniature, thin connectors conforms to the SSFDC Forum of "SmartMedia" miniature storage media. Available in three types: 3.3V card type, 5V card type, and a combined type for both 3.3V and 5V cards.
Applications: Digital cameras, PDA, voice recorders, and other equipment that uses SmartMedia.
Ratings: Current: 0.5A Temp Range: -20°C to +60°C Voltage: 125V AC

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
22	Smart Card 3.3V/5V	H2319-ND	4.99	3.87	3.10	MCR102A-22R-1.27SF
22	Smart Card 3.3V	H2339-ND	4.29	3.44	2.66	MCR102-22RL-1.27SF
22	Smart Card 5V	H2340-ND	5.34	4.27	3.30	MCR102-22RH-1.27SF

Sullins ELECTRONICS CORPORATION

Hard Metric Compact PCI Connectors

Type A Female

Type A Male

Type B Female

Type B Male

Type C Female

Type C Male


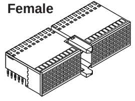
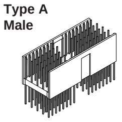
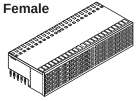
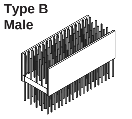
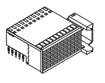
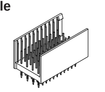
Designed for the Telecommunications industry to replace the DIN 41612 Series of 2 piece connectors. It is much higher density than the older 4162 and the IEC Specification allows for greater standardization.

Specifications: • Insulator Material: Liquid Crystal Polymer (LCP) UL94V-O • Contact Material: Phosphor Bronze • Current Rating: 1 Amp • Dielectric Withstanding Voltage: AC 1000V for 1 Minute • Insulator Resistance: 1000 megohm Minimum at DC 500V • Contact Resistance: 30 milliohm Maximum at DC 100mA • Operating Temperature: -65°C to + 125°C

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	Sullins Part No.
110	Type A Female HM Unshielded	S3100-ND	6.31	5.72	2AF1105F001-0-H
110	Type A Female HM Shielded	S3101-ND	7.50	6.80	2AF1105F001-1-H
154	Type A Male cPCI HM	S3102-ND	6.31	5.72	2AM154P1011-1-H
154	Type A Male HM cPCI Hot Swap	S3103-ND	7.50	6.80	2AM154P1012-1-H
100	Type A Male HM cPCI Telephony	S3104-ND	4.64	4.20	2AM100P1013-1-H
95	Type B19 Female HM Unshielded	S3105-ND	6.07	5.50	2B19F955F001-0-H
95	Type B19 Female HM Shielded	S3106-ND	6.65	6.03	2B19F955F001-1-H
133	Type B19 Male HM	S3107-ND	5.46	4.95	2B19M133P1001-1-H
110	Type B22 Female HM Unshielded	S3108-ND	7.10	6.44	2B22F1105F001-0-H
110	Type B22 Female HM Shielded	S3109-ND	7.50	6.80	2B22F1105F001-1-H
154	Type B22 Male HM	S3110-ND	6.17	5.60	2B22M154P1001-1-H
154	Type B22 Male HM CPCI Telephony	S3111-ND	6.89	6.24	2B22M154P1013-1-H
125	Type B25 Female HM Shielded	S3112-ND	9.41	8.52	2B25F1255F001-1-H
125	Type B25 Female HM Unshielded	S3113-ND	7.16	6.48	2B25F1255F001-0-H
175	Type B25 Male HM	S3114-ND	7.02	6.36	2B25M175P1001-1-H
55	Type C Female HM Unshielded	S3115-ND	4.40	3.99	2CF555F001-0-H
55	Type C Female HM Shielded	S3116-ND	5.70	5.16	2CF555F001-1-H
77	Type C Male HM	S3117-ND	3.31	3.00	2CM77P1001-1-H

HIROSE ELECTRIC CO.,LTD.

2mm Hard Metric Connector

Type A Female

Type A Male

Type B Female

Type B Male

Type C Female

Type C Male


Applications: Switchboards, transmission systems, Cellular base stations, industrial computer boards, measuring instruments, control equipment. **Product Specifications:** **Rated current:** 1.5A **Operating Temp:** -55 to +85ºC **Rated volt:** AC 300V **Material: Headers & Receptacle - Insulator:** PBT resin, Gray **Terminal:** Phosphor bronze **PCN21B - Contact area:** Nickel base, gold plating **PCB leads:** Nickel base, tin plating **Receptacle Shield:** Phosphor bronze **PCN21B - Contact area:** Nickel base, gold plating. **PCB leads:** Nickel base, tin plating. UL94V-0

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	Hirose Part No.
110	Recept. Style A, Female, w/out ground plate	H3208-ND	6.50	5.25	PCN21B-110SA-2PF
110	Header Style A, Male, Short pin	H3200-ND	4.58	3.56	PCN21B-110PA-2PF
110	Header Style A, Male, Short pin w/ground	H3201-ND	5.45	4.23	PCN21B-110PA-2PF-G
110	Recept. Style B, Female, w/out ground plate	H3210-ND	7.22	5.61	PCN21B-110SB-2PF
125	Recept. Style B, Female, w/out ground plate	H3209-ND	7.12	5.76	PCN21B-125SB-2PF
110	Header Style B, Male, Short pin	H3204-ND	4.55	3.54	PCN21B-110PB-2PF
110	Header Style B, Male, Short pin w/ground	H3205-ND	5.42	4.21	PCN21B-110PB-2PF-G
125	Header Style B, Male, Short pin	H3202-ND	5.05	3.92	PCN21B-125PB-2PF
125	Header Style B, Male, Short pin w/ground	H3203-ND	6.03	4.68	PCN21B-125PB-2PF-G
55	Recept. Style C, Female, w/out ground plate	H3211-ND	4.67	3.63	PCN21B-55SC-2PF
—	Bottom ground plate for Recept Style C	H3212-ND	1.48	1.08	PCN21A-SC-G
55	Header Style C, Male, Short pin	H3206-ND	3.07	2.39	PCN21B-55PC-2PF
55	Header Style C, Male, Short pin w/ground	H3207-ND	3.48	2.70	PCN21B-55PC-2PF-G
—	Coding key for Male Header, Yellow - 3.3V	H3213-ND	.45	.27	PCN21-P-CK(A)
—	Coding key for Female Recept, Yellow - 3.3V	H3214-ND	.45	.27	PCN21-S-CK(A)
—	Coding key for Male Header, Blue - 5V	H3215-ND	.45	.27	PCN21-P-CK(B)
—	Coding key for Female Recept, Blue - 5V	H3216-ND	.45	.27	PCN21-S-CK(B)

DIMM Sockets — SX1 Series

Features: The SX1 Series of horizontal SMT type sockets with 0.635mm pitch comply with the "Small Outline DIMM" specification standardized by JEDEC. Compared with the 72-pin DRAM SIMM socket, these SX1 sockets are about half the size. These sockets can be used in applications requiring double density (i.e., both sides) and permit module boards to be designed with higher level functions and higher density. **Applications:** Personal computers, office automation equipment, measuring instruments, communications equipment, medical equipment, factory automation, game machines, EWS, general-use computers, etc. **Ratings:** Temp. Range -55°C to +85°C Volt: 25V AC Current: 0.5A

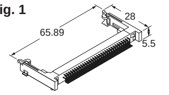
Fig. 1


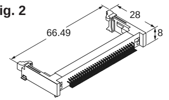
Fig. 2


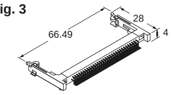
Fig. 3


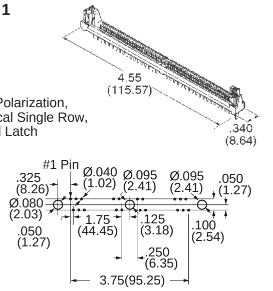
Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
		Standard					
1	72	Height 5.5mm, DIMM key 3.3V	H2342-ND	5.17	4.14	3.20	SX1B-72S-0.635SH
	72	Height 5.5mm, DIMM key 5V	H2343-ND	5.17	4.14	3.20	SX1BA-72S-0.635SH
		High Profile					
2	72	Height 8.0mm, DIMM key 3.3V	H2344-ND	7.78	6.54	5.14	SX1C-72S-0.635SH
	72	Height 8.0mm, DIMM key 5V	H2345-ND	7.78	6.54	5.14	SX1CA-72S-0.635SH
		Low Profile					
3	72	Height 4.0mm, DIMM key 3.3V	H2346-ND	6.08	4.87	3.76	SX1E-72S-0.635SH
	72	Height 4.0mm, DIMM key 5V	H2347-ND	6.08	4.87	3.76	SX1EA-72S-0.635SH

molex Waldom ELECTRONICS

SIMM Sockets

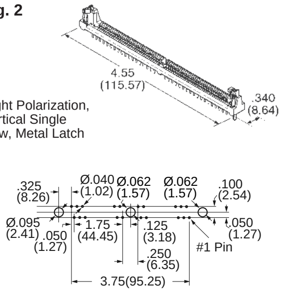
Features and Benefits: • Zero insertion force contacts improve socket and module contact life and provide for fast on-line assembly • Guaranteed 2 points of contact per readout with standard JEDEC module • Anti-overstress latch feature provides extra protection during module removal • Polarization posts provide orientation for proper loading of socket into printed circuit board • Polarization rib properly orients module to socket • EIA standard dimensions **Electrical Specifications:** • Voltage: 250V • Current: 1.0A • Contact Resistance: 30mΩ max. • Dielectric Withstanding Voltage: 1000V AC • Insulation Resistance: 5000MΩ min. • Capacitance: 2.5 pF max. **Mechanical Specifications:** • Normal Force: 150g • Durability: 25 cycles **Physical Specifications:** • Housing: Black LCP, UL 94V-0 • Latch: Stainless Steel • Contact: Phosphor Bronze Alloy • Temperature: -40°C to +85°C

Fig. 1



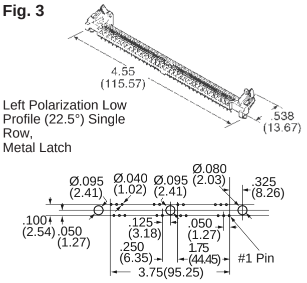
Left Polarization, Vertical Single Row, Metal Latch

Fig. 2



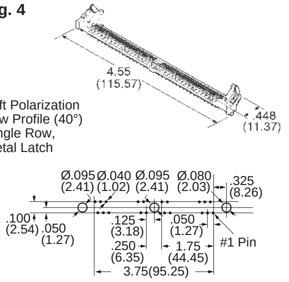
Right Polarization, Vertical Single Row, Metal Latch

Fig. 3



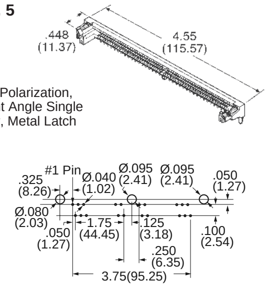
Left Polarization Low Profile (22.5°) Single Row, Metal Latch

Fig. 4



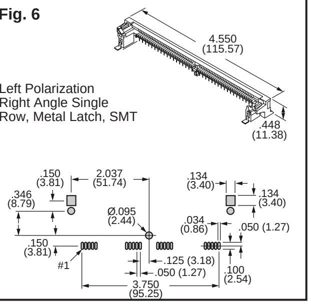
Left Polarization Low Profile (40°) Single Row, Metal Latch

Fig. 5



Left Polarization, Right Angle Single Row, Metal Latch

Fig. 6

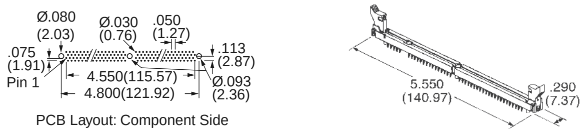


Left Polarization Right Angle Single Row, Metal Latch, SMT

Fig.	Plate	Digi-Key Part No.	Price Each 1	25	50	100	Molex Part No.
1	Tin	WM1700-ND	3.42	3.14	2.85	2.57	15-82-0775
	Gold	WM1702-ND	3.42	3.14	2.85	2.57	15-82-0762
2	Tin	WM1701-ND	3.42	3.14	2.85	2.57	15-82-0777
	Gold	WM1703-ND	3.42	3.14	2.85	2.57	15-82-0788
3	Tin	WM1704-ND	3.42	3.14	2.85	2.57	15-82-0678
	Gold	WM1705-ND	3.42	3.14	2.85	2.57	15-82-0675
4	Tin	WM1706-ND	4.91	4.51	4.10	3.69	15-82-0649
	Gold	WM1707-ND	3.42	3.14	2.85	2.57	15-82-0627
5	Tin	WM1709-ND	6.40	5.88	5.34	4.81	15-82-1538
	Gold	WM1708-ND	11.53	10.57	9.61	8.65	15-82-0312
6	Gold	WM18502-ND	15.37	14.09	12.81	11.53	15-82-0328

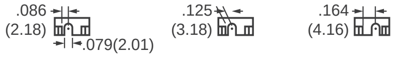
DIMM Sockets

Features and Benefits: • Accepts JEDEC M0-161 modules for 100% industry compatibility • Dual ejector latches for easy module removal • Palladium nickel with gold flash plating for improved reliability • Added contact wipe for improved reliability
Electrical Specifications: • Voltage: 100V • Current: 1.0A • Contact Resistance: 20mΩ max. • Dielectric Withstanding Voltage: 750V AC • Insulation Resistance: 100MΩ min.
Mechanical Specifications: • Mating Force: 5 oz. per pair • Durability: 25 cycles min.
Physical Specifications: • Housing and Latch: High temperature resistant thermoplastic, UL 94V-0 • Contact: Phosphor Bronze • Plating: Selective palladium nickel with gold flash with tin/lead on solder tails • Temperature: -40°C to +85°C



PCB Layout: Component Side

Function / Voltage Key Details



Detail "Z" **Detail "Y"** **Detail "X"**

Description	Circuits	Function Key	Voltage Key	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
DRAM 3.3V	168	Detail Y	Detail Y	WM1710-ND	4.57	4.19	3.81	71251-0001
SDRAM 3.3V	168	Detail Z	Detail Y	WM1714-ND	4.26	3.91	3.55	71251-0016
Unbuffered 3.3V	168	Detail X	Detail Y	WM1712-ND	4.26	3.91	3.55	71251-0012
DRAM 3.3V, Forklock Version	168	Detail Y	Detail Y	WM18497-ND†	4.55	4.18	3.80	71736-0001

† White glass-filled LCP, UL94-0

S.O. DIMM Sockets

Features and Benefits: • Size 144 circuits • S.O. DIMM sockets accept JEDEC standard DRAM and SDRAM modules; SGRAM socket accepts JEDEC standard SGRAM modules • Plastic latch prevents scratching of module, while metal anti-overstress feature protects latch from bending too far in or out • Front solder tabs provide secure PCB hold-down • Polarization key assures proper module insertion
Electrical Specifications: • Power Supply: 3.3V • Voltage: 100V • Current: 0.3A • Dielectric Withstanding Voltage: 200V AC/1 min. • Insulation Resistance: 1000MΩ min.
Physical Specifications • Temperature: -55°C to +85°C

Fig. 1 — S.O. DIMM, Right Angle, SMT

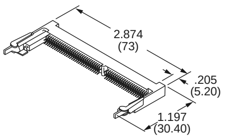


Fig. 3 — SGRAM, Right Angle, SMT

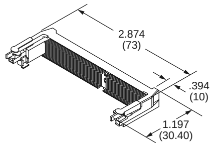


Fig. 2 — S.O. DIMM, Right Angle, SMT, Reverse Keying

Reverse keying enables back-to-back placement of sockets for space savings

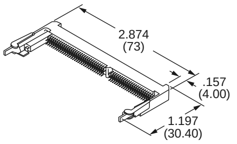


Fig.	Description	Max. Contact Resistance	Mounted Height	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
S.O. DIMM Sockets								
1	SMT, Right Angle	60mΩ	5.2mm	WM18499-ND	5.98	5.48	4.99	54142-1440
2	SMT, Right Angle, Reverse Keying	60mΩ	4.0mm	WM18501-ND	5.98	5.48	4.99	54432-1440
SGRAM Socket								
3	SMT, Right Angle	70mΩ	10.0mm	WM18500-ND	5.55	5.09	4.63	54189-1440

HRS HIROSE ELECTRIC CO.,LTD.

NEW! Memory Stick® Connectors

Features: The connector will not allow the card to be completely inserted from the wrong end or reversed. The card will stop about 7mm before complete insertion position, visually indicating incorrect insertion. Incorrect insertion of the card will not damage the contacts. The card can be easily withdrawn and reinserted correctly. **Specifications:** • Insulation Resistance: 1000MΩ min. • Withstanding Voltage: No Flashover or insulation breakdown • Contact Resistance: 100mΩ max. • Durability (mating/unmating): 12000 cycles at 400 to 600 cycles per hour • Current Rating: 0.5A • Voltage rating: 125V AC • Storage Temperature: -40°C to +85°C • Operating Temperature: -20°C to +85°C *(Includes temperature rise caused by current flow)*

Materials: • **Insulator:** Heat resistant glass reinforced thermoplastic compound, Black, UL94V-0 • **Contacts:** Phosphor Bronze, Contact Area: Gold plating, Termination Area: Solder plating • **Metal Hold Down:** Phosphor Bronze, Contact Area: Nickel plating, Termination Area: Solder plating • **Cover:** Stainless Steel • **Ejection Mechanism Components:** Stainless Steel

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	10 Position with Flange for Screw Attachment	HR894-ND	5.02	4.16	3.12	CB1A-10S-1.5H(57)
1	10 Position with Flange for Screw Attachment	HR798-ND*	5.02	4.16	3.12	CB1AC-10S-1.5H(57)
2	10 Position without Flange	HR895-ND	5.02	4.16	3.12	CB1AA-10S-1.5H(57)
3	10 Position, Left Ejection	HR799-ND	6.92	5.86	4.39	CB1C-10S-1.5H-EJL
4	10 Position, Right Ejection	HR800-ND	7.33	6.21	4.66	CB1C-10S-1.5H-EJR

* Without Insertion Stoppers

Fig. 1

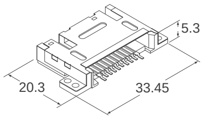


Fig. 2

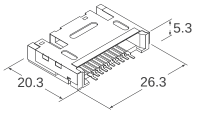


Fig. 3

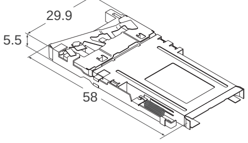
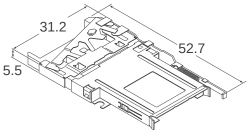


Fig. 4



HIROSE ELECTRIC CO.,LTD.

NEW! DM1 Series Secure Digital Memory Card Connectors

Features: • Metal cover extends over the back of the connector allowing it to withstand force of up to 400N (static load) when dropped or accidentally hit • The connectors will release the card when a moderate pull-out force of about 4N is applied. There will be no damage to the lock components and all connector functions will not be affected • Built-in lock feature holds the card securely in place • Built-in Push-in/ Push-out ejection mechanism assures simple and reliable card insertion and withdrawal • Designed to accept secure Digital I/O card (Built-in Ground Contact) **Applications:** Notebook PC's, digital cameras, PDA's, audio/video equipment and other devices utilizing SD I/O cards

Fig.	Description	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 450	Hirose Part No.
1	Standard Type	HR845CT-ND	3.80	73.69	235.80	HR845TR-ND	854.78	DM1AA-SF-PEJ(21)
2	Reverse Type	HR846CT-ND	3.80	73.69	235.80	HR846TR-ND	854.78	DM1B-DSF-PEJ

Fig. 1

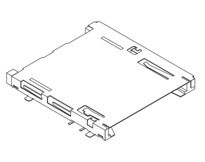
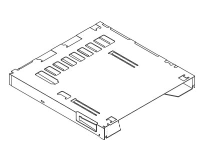


Fig. 2



PCMCIA IC Memory Card Connectors

Fig. 1

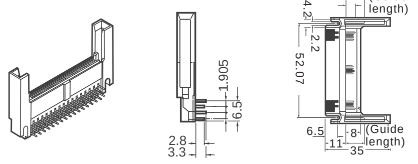


Fig. 2

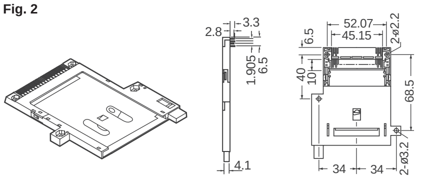


Fig. 3

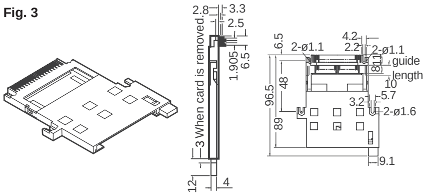


Fig. 4

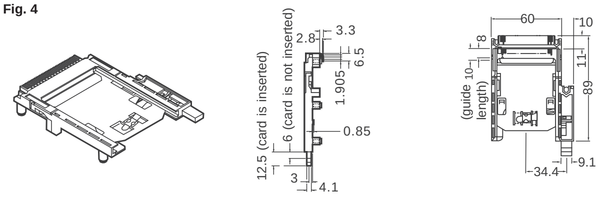
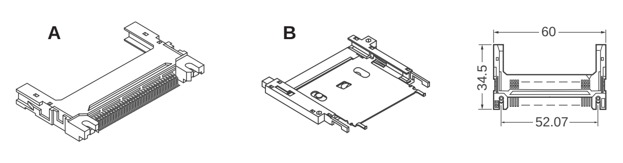


Fig. 5



• Leading features of PCMCIA standard of mis-insertion prevention mechanism and sequencing mechanism for circuit protection, are incorporated • Receptacle is of surface mount type • Pushbutton switch of ejecting section has an inner spring which makes the pushbutton free from vibration. **Material: Insulator:** Black **Contact:** Selective gold plating **Ejector:** SUS **Electrical Specifications: Current Rating:** 0.5A per pin **Rated Voltage:** 125V AC **Withstanding Voltage:** 500V AC for one minute at specified value **Insulation Resistance:** Min. 1000MΩ at 500V DC **Contact Resistance:** Max. 40mΩ at 1mA DC

Fig.	No. of Pins	Type	Description	Digi-Key Part No.	Pricing 1	10	Hirose Part No.
1	68	I, II	Memory Card Connector	HR801-ND	5.47	47.76	IC1FA-68PD-1.27DS
2	68	I, II	Memory Card Connector with Ejecting Mechanism	HR802-ND	10.78	94.29	IC1G-68PD-1.27DS-EJ
	68	I, II	With Ejector and ESD Groundings Features	HR810-ND	11.45	100.17	IC1G-68PD-1.27DS-EJ-E
3	68	I	Memory Card Connector with Ejecting Mechanism	HR803-ND	10.99	96.18	IC1F-68PD-1.27DS-EJ
4	68	I, II	Memory Card Connector with Ejecting Mechanism and Std-off	HR804-ND	10.66	93.24	IC1FB-68PD-1.27DS-EJ
5A	68	I, II	SMT Connector without Ejector	HR805-ND	7.85	69.08	IC1G-68PD-1.27SF
5B	68	I, II	SMT Ejector for HR805	HR806-ND	6.41	55.92	IC1G-68PD-EJ

PCMCIA IC Memory Card Connectors

Fig. 1: IC1 Series

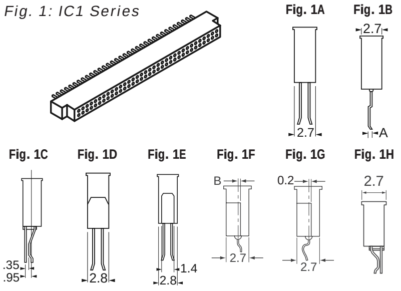
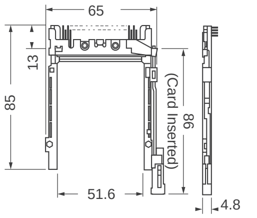


Fig. 1A
Fig. 1B
Fig. 1C
Fig. 1D
Fig. 1E
Fig. 1F
Fig. 1G
Fig. 1H

The IC1 Series connectors comply with Ver. 3 and Ver. 4.2, JEIDA and PCMCIA 2.0 Standards.
Features: • Provided with complete features of the JEIDA and PCMCIA Standards, such as polarizing method and sequence construction for circuit protection • Surface mount socket connectors (card side) • Off-center socket connectors are also available that allow high packaging profile • All the pin connectors described are compatible with cards of type I and II • Surface mount header connectors are available

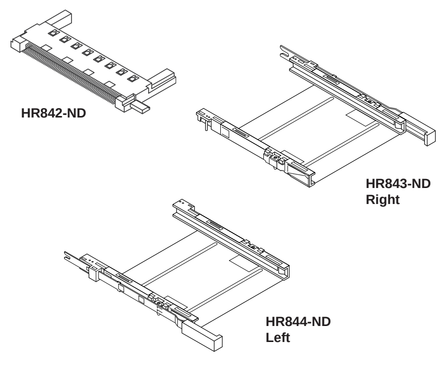
Fig. 2: IC7 Series



The IC7 Series of miniature, lightweight 68-pin connectors complies with JEIDA Ver. 4.2 and is suitable for use with PCMCIA Type III cards.
Features: • Smaller and thinner than our previous product • Forty-seven percent lighter than our previous product • Equipped with an eject button for smooth removal of cards • Two types of eject button, either left or right • There is also a reverse type for mounting on the back surface of the board • Equipped with a frame ground terminal • Types available for DIP and SMT board mounting methods • The SMT type can be mounted on both sides of the board and can also be used as a 2-slot connector

Fig.	No.of Pins	Type	Description	Digi-Key Part No.	Pricing 1	10	Hirose Part No.
			Socket Connector Memory Card				
1A	68	I, II	2.7mm Dual	HR831-ND	3.74	32.64	IC1F-68RD-1.27SH
1B	68	I, II	Single Side, A = .3mm	HR828-ND	7.28	61.60	IC1F-68RD-1.27SF
1B	68	I, II	Single Side, A = .854mm	HR829-ND	5.06	44.16	IC1F-68RD-1.27SFA
1C	68	I, II	Off-Center	HR830-ND	4.48	39.12	IC1H-68RD-1.27SH
1D	68	I, II	2.8mm Dual	HR832-ND	4.48	39.12	IC1BB-68RD-1.27SH
1E	68	I, II	2.8mm Dual	HR833-ND	5.25	45.84	IC1BA-68RD-1.27SH
1F	68	I, II	2.7mm Dual, B = .3mm	HR630-ND *NEW!*	4.32	35.76	IC1HA-68RD-1.27SH
1F	68	I, II	2.7mm Dual, B = .9mm	HR631-ND *NEW!*	4.15	34.32	IC1K-68RD-1.27SF
1G	68	I, II	2.7mm Dual	HR632-ND *NEW!*	4.15	34.32	IC1K-68RD-1.27SFA
1H	68	I, II	2.7mm Dual	HR633-ND *NEW!*	4.15	34.32	IC1K-68RD-1.27SFB
			Memory Card Connector				
2	68	I, II, III	Light Weight, Right Eject	HR816-ND	6.38	56.10	IC7-68PD-1.27DS-EJR
	68	I, II, III	Light Weight, Left Eject	HR817-ND	6.38	56.10	IC7-68PD-1.27DS-EJL
	68	I, II, III	Light Weight, Rev Right Eject	HR818-ND	6.38	56.10	IC7-68PDR-1.27DS-EJR
	68	I, II, III	Light Weight, Rev Left Eject	HR819-ND	6.38	56.10	IC7-68PDR-1.27DS-EJL

IC11 Series PC Card Connectors for PC CardBus



Features:
Space-Saving Design: Miniature and thin at 62.9mm (width) x 85mm (length) x 5.65mm (height), this space-saving design is only 8mm from the card edge position to the connector tip portion
Increased Degree of Card Ejection: An original ejection design increases the degree of card ejection
Materials:
Insulation: • SMT Portion — Liquid crystal polymer (UL94V-0), beige • Card Guide Portion — PBTresin (UL94V-0), black • Eject Button — PBTresin (UL94V-0), black
Contacts: • Signal Portion — Brass with partial gold plating • CardBus Ground Plate Portion — Phosphor bronze with partial gold plating

Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
			68 Position PC Card Connector for PC CardBus		
—	HR842-ND	8.03	70.62	312.98	IC11-68L-1.27SF-EJR
			Ejector PC CardBus Connector		
Right	HR843-ND	3.63	31.68	132.00	IC11-BD-EJR
Left	HR844-ND	3.22	28.08	117.00	IC11-BD-EJL

Compact Flash Card Connectors

Card Headers - MI21 Series-Type I or II Cards

Features: • Compact design occupies minimum space • Connectors are designed with small width and depth for miniaturization and the foot print on the board has been made smaller • Card ejection mechanism • Two point ejection mechanism to assure even card ejection • Designed and packaged for board placement with automatic equipment • Headers are designed with a pick up area to accommodate the pick-and-place nozzles of automatic mounting machines. (Patents pending) • Receptacles are designed to be mounted on top the board, and automatic mounting is possible on the specified board

Materials and Finishes: • **Insulator**: PPS resin, Black, UL94V-0 • **Contacts**: Brass • **Engagement Area**: Gold plating of 0.1µm • **Termination Area**: Solder plating • **Reinforced Fitting**: Brass, Applied to eject mechanism • **Eject Fitting**: Stainless steel • **Ground Clip**: Stainless steel, Applied to MI21 • **Nut**: Steel, Solder plating.

Fig. 1

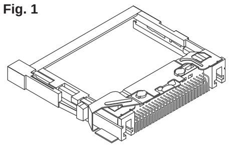


Fig. 2

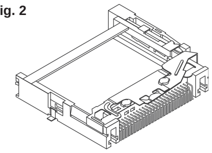


Fig. 3

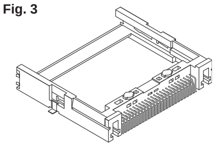


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	Right Side Eject Button, 0.0mm, Standard Mounting	H3230-ND	8.81	7.46	5.60	MI21-50PD-SF-EJR
2	Left Side Eject Button, No Offset, Standard Mounting	H3231-ND	8.81	7.46	5.60	MI21-50PD-SF-EJL
3	No Eject Button, No Offset, Standard Mounting	H3232-ND	6.79	5.75	4.31	MI21-50PD-SF
3	No Eject Button, No Offset, Reverse Mounting	H3233-ND*	5.83	4.83	3.62	MI21A-50PDR-SF
1	Right Side Eject Button, 2.2mm, Standard Mounting	H3234-ND	8.81	7.46	5.60	MI21A-50PD-SF-EJR
2	Left Side Eject Button, 2.2mm Offset, Standard Mounting	H3235-ND	8.81	7.46	5.60	MI21A-50PD-SF-EJL
3	No Eject Button, 2.2mm Offset, Standard Mounting	H3236-ND	6.79	5.75	4.31	MI21A-50PD-SF

*Reverse Mounting

Compact Flash Card Connectors

Card Headers

Features and Benefits:

• Size 50 circuits • Dual-row 1.27mm (.050") pitch at card interface and 0.635mm (.025") pitch in-line SMT tails • High temperature housing suitable for reflow soldering • In-line SMT tails protect against damage during assembly

Electrical Specifications:

• Voltage: 100V • Current: 0.5A • Contact Resistance: 40mΩ max. • Dielectric Withstanding Voltage: 500V AC/1 min. • Insulation Resistance: 1000MΩ min.

Physical Specifications:

• Housing: Glass-filled LCP, UL94V-0 (WM18503-ND: black; WM18505-ND and WM18506-ND: white) • Contact: Phosphor bronze • Plating: Gold over palladium nickel in contact area; tin/lead in solder tail area, nickel underplate overall • Solder Tab: Phosphor bronze, tin/lead over copper plating • Temperature: -20°C to +90°C • PC Board Thickness: 0.80mm • PC Card Thickness: 3.30mm ±0.1 • PC Card Width: 42.80mm ±0.1

Card Ejectors

Features and Benefits:

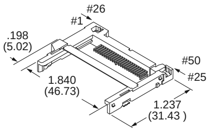
• Low-profile modular design snaps easily onto header • Can be used with both top and bottom mount headers • Lever design provides for smooth card extraction

Physical Specifications:

• Metal Shell and Lever: Stainless steel

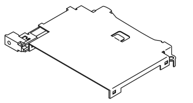
• Top button: Glass-filled PBT, UL 94V-0 (WM18504-ND has a brass pin and black polycarbonate base button)

Fig. 1 – Right Angle, SMT Top Mount Header *For Type I and Type II Cards*



Integral gold plated frame grounds and solder tabs

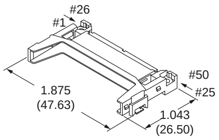
Fig. 2 – Left Side Flip Button Ejector *For Type I and Type II Headers*



Mates with WM18503-ND

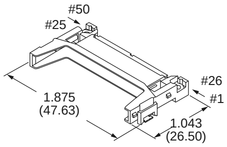
Flip-style button folds 90°
Stainless steel rod

Fig. 3 – Right Angle, SMT Top Mount Header *For Type I Cards*



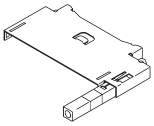
Solder tabs in front provide stability during mating

Fig. 4 – Right Angle, SMT Bottom Mount Header *For Type I Cards*



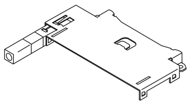
Solder tabs in front provide stability during mating

Fig. 5 – Right Side Button Ejector*For Type I Headers*



Mates with WM18505-ND and WM18506-ND

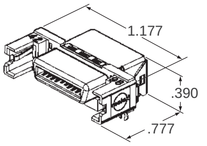
Fig. 6 – Left Side Button Ejector*For Type I Headers*

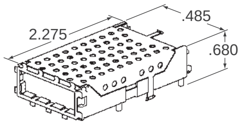


Mates with WM18505-ND and WM18506-ND

Fig.	Description	Digi-Key Part No.	Pricing 1	25	50	Molex Part No.
	For Type I and Type II Cards and Headers					
1	Header, Rt. Angle, SMT, 5.85mm Low Profile Height	WM18503-ND	16.50	378.06	687.38	55244-5021
2	Ejector, Left Side Flip Button	WM18504-ND	5.77	132.14	240.25	55246-0011
	For Type I Cards and Headers					
3	Top Mount Header, Rt. Angle, SMT, 1.64mm Standoff Height	WM18505-ND	8.11	185.91	338.02	53856-5010
4	Bottom Mount Header, Rt. Angle, SMT, 1.64mm Standoff Height	WM18506-ND	8.11	185.91	338.02	53927-5010
5	Ejector, Right Side Flip Button (for Top or Bottom Mount Headers)	WM18507-ND	5.59	128.19	233.07	55021-0001
6	Ejector, Left Side Button (for Top or Bottom Mount Headers)	WM18508-ND	5.59	128.19	233.07	55022-0001

Gigabit Interface Converter (GBIC)





Features and Benefits:

• Meets Gigabit Interface Converter (GBIC) specifications • Rugged blind-mate guide ears with +/-2.00mm (0.079") mismating tolerance • Shielded for improved EMI protection with ESD ground contacts and optional shielding pegs • Staggered "hot-plug" first-mate, last-break contacts on 1.27mm (.050") pitch spacing

Electrical:

• Voltage: 30V • Current: 1.0A • Contact Resistance: 20m ohms • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000M ohms

GBIC Guide Frame:

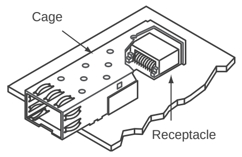
• Complies with the current GBIC standard (SFF-8053) • All metal construction provides the ultimate in EMI protection • Plated die cast body provides the option to solder directly to the PCB • EMI gasket provides 360 degrees of contact to the chassis • Compatible with the industry standard footprint • Mounting options for horizontal and vertical applications

Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
20 Pos., SCA-2 Recept with Shielding Pegs	WM1630-ND	12.58	11.54	10.49	74065-0005
Guide Frame for GBIC	WM1631-ND	16.04	14.71	13.37	73847-0001-TR12
Adapt. w/o Serial ID,Copper GBIC to DB9 Female	WM1632-ND	79.25	72.65	66.04	73086-0001-TR12

Small Frame Pluggable Connectors and Frames (SFP)

Features:

The SFP system follows the function of the standard Gigabit Interface Converter (GBIC) products, with reduced size and increased data-transfer rates at and beyond two Gigabits per second (Gbps). A multi-source, industry-standard product line, our SFP products feature a common design interface for use with multiple data transfer protocols, including Fibre Channel, Gigabit Ethernet, InfiniBand and proprietary links.



Cage Features:

- All metal construction for EMI protection
- Two point spring contacts for optimal EMI grounding
- Chamfered edges on cover facilitate assembly
- Design allows cages to be mounted on opposite sides of PCB for "belly-to-belly" applications

SMT Receptacle:

- Alignment posts provide stability for placement on the PCB
- Standoffs allow easy PCB cleaning after soldering
- SMT design provides option for placement on both sides of PCB

Circuits	Digi-Key Part No.	Price Each 1	10	100	T & R Pricing* 480	Molex Part No.
	Receptacle, Right Angle, SMT					
20	WM1633CT-ND†	7.87	7.22	6.56	2203.12	74441-0001
	Cage for Small Frame Solder-Tail Post					
—	WM1634-ND	12.22	11.20	9.17	—	73927-0002-TR24
	HSSDC2 Receptacle, Right Angle Shielded InfiniBand Keyed					
7	WM5976-ND	18.00	15.00	10.50	—	74703-0007
	HSSDC2 Receptacle, Right Angle Shielded Fibre Channel Keyed					
7	WM5977-ND	20.77	17.31	12.12	—	74703-0107

† Cut Tape *For Tape & Reel Part No., change CT to TR.

AMP tyco Electronics
Authorized Distributor

I.C. Sockets

Performance Characteristics:

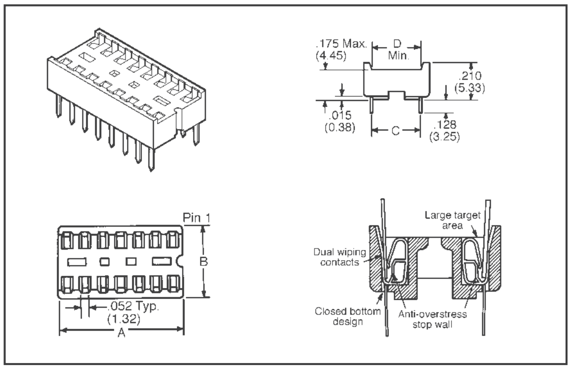
Physical: • Engaging force: 340 grams max.(initial) • Separating force: 25 grams min.

Electrical: • Rating: 250 VAC • Contact resistance: 20 milliohms max. initial, 30 milliohms max. after test • Dielectric withstanding voltage: 1000 VRMS min. • Insulation resistance: 10,000 megohms min. (initial) • Capacitance: 0.5 picofarad max.

Environmental: • Operating temperature: -55°C to + 105°C (tin); -55°C to + 125°C (gold) • Vibration: 15 G's, 10-2000-10 Hz with 100mA current • Shock: 100 G's sawtooth; 6 shocks.

Material and Finish: • Housing: Glass-filled thermoplastic. 94V-0 rated. (black).

Notes: • Closed bottom design: inhibits flux contamination and solder wicking • Over-stress stop wall: prevents damage to socket contact from bent or twisted DIP leads and off-set insertion or extraction of DIP packages • Closed Frame Style (unless noted) • Large target area: makes it easy to insert DIP packages • Dual wiping contacts: make a gas-tight connection for high reliability • Low profile: .175 (4.45) max. seating plane above pc board • Dual wiping contacts • Stackable end-to-end and side-to-side • Designed to meet EiA RS-415, MIL-S-83734 and stringent computer specifications • Recognized under the Component Program of Underwriters Lab. Inc. File E28476 • Certified by Canadian Standards Association File No. LR 16455.

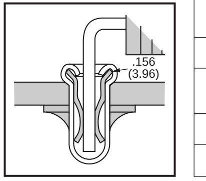


No. of Pins	Dimensions – In. (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Dual Leaf Low Profile Dip Sockets								
Phosphor Bronze with 15µ Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9406-ND	.57	.46	2-641296-4
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9408-ND	.57	.46	2-640463-4
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9414-ND	.99	.80	2-640357-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9416-ND	.87	.70	2-640358-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94116-ND*	.99	.80	2-641600-4
18	.895 (22.73)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9418-ND	1.44	1.16	2-640359-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9420-ND	1.32	1.06	2-640464-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94120-ND*	1.26	1.01	2-641602-4
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9424-ND	1.92	1.54	2-640361-4
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94124-ND*	1.74	1.40	2-641932-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9428-ND	1.80	1.44	2-640362-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94128-ND*	1.80	1.44	2-641605-4
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94132-ND*	2.07	1.66	2-644018-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9440-ND	1.77	1.42	2-640379-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94140-ND*	1.77	1.42	2-641606-4
Beryllium Copper with 30µ Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24793-ND	.51	.41	2-641296-2
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24794-ND	.36	.29	2-640463-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24795-ND*	.99	.80	2-641599-2
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24796-ND*	1.05	.84	2-641600-2
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24797-ND*	1.80	1.44	2-641932-2
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24798-ND*	2.31	1.85	2-641604-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24799-ND*	2.37	1.90	2-641605-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24800-ND*	2.67	2.14	2-644018-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24801-ND*	2.37	1.90	2-641606-2
Sockets with Retention Solder Tails								
Phosphor Bronze with 15µ Gold Plating								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24802-ND	.51	.41	2-641260-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24803-ND*	1.80	1.44	2-641615-4
Phosphor Bronze with Tinned Plating								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24804-ND*	.60	.48	2-641615-3
Beryllium Copper with 30µ Gold Plating								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24805-ND*	2.37	1.90	2-641615-3
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24806-ND*	2.37	1.90	2-641616-2
Beryllium Copper with Tinned Plating								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24807-ND	.27	.22	2-641260-1
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24808-ND*	.51	.41	2-641609-1
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24809-ND*	.57	.46	2-641610-1
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24810-ND*	.57	.46	2-641612-1
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24811-ND*	.66	.53	2-641933-1
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24812-ND*	1.08	.87	2-382189-1

* Open Frame Style.

Test Sockets

Reusable Receptacles for Component Testing: • Receptacles help prevent heat damage to pc boards and components during burn-in and bread-boarding evaluation • Receptacles eliminate need for soldering components directly to the board • Board components can be inserted and extracted at a minimum of 100 times.

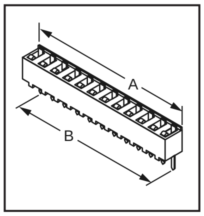


Description	Accepts Lead Size - Inch (mm)	Finish Cup	Spring	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Closed Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29070-ND	.81	.65	.52	380598-1
		Tin-Lead	30µ Gold	A29071-ND	.35	.29	.23	380598-2
		Tin-Lead	Tin-Lead	A29072-ND	.29	.23	.19	380598-3
Closed Bottom	.036 - .051 (0.91 - 1.30)	Tin-Lead	Tin-Lead	A29073-ND	.29	.23	.19	1-380758-0
		Tin-Lead	30µ Gold	A29074-ND	.34	.28	.22	1-380758-1
Open Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29075-ND	.85	.68	.54	380635-1
		Tin-Lead	30µ Gold	A29076-ND	.52	.42	.34	380635-2
		Tin-Lead	Tin-Lead	A29077-ND	.38	.31	.25	380635-5
Open Bottom	.036 - .051 (0.91 - 1.30)	Tin-Lead	TIn-Lead	A29078-ND	.29	.23	.19	640206-1
		Tin-Lead	30µ Gold	A29079-ND	.45	.36	.29	640206-2
Stand-Off	.018 - .040 (0.46 - 1.02)	Tin-Lead	30µ Gold	A29080-ND	1.01	.81	.64	1-380737-0
		Tin-Lead	TIn-Lead	A29081-ND	.42	.34	.27	640593-1

SIP Sockets

STRAIGHT SOLDER TAIL

The DIPLOMATE Dual Leaf SIP socket family provides high quality at low cost with superior handling characteristics. These stackable housings feature a "true closed bottom" design which prevents solder or flux wicking • Housing- Glass-filled thermoplastic, 94V-0 rated, black • Low Profile - .210 (5.33) max. • Dual wiping contacts • Accepts .008 - .014 (0.2 - 0.36) thick x .030 (0.76) max. wide rectangular leads



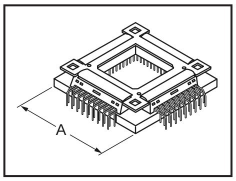
No. of Positions	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
3	.295 (7.49)	.200 (5.08)	A26245-ND	.75	.60	.48	382437-1
4	.395 (10.03)	.300 (7.62)	A24813-ND	.75	.60	.48	382438-1
7	.695 (17.65)	.600 (15.24)	A24814-ND	.75	.60	.48	382441-1
8	.795 (20.19)	.700 (17.78)	A24815-ND	.84	.68	.54	643640-1
10	.995 (25.27)	.900 (22.86)	A24816-ND	1.26	1.01	.80	643642-1
12	1.195 (30.35)	1.100 (27.94)	A26246-ND	1.50	1.20	.95	643644-1
14	1.395 (35.43)	1.300 (33.02)	A24817-ND	2.37	1.90	1.51	643646-1
15	1.495 (37.97)	1.400 (35.56)	A24818-ND	2.55	2.04	1.62	643647-1
16	1.595 (40.51)	1.500 (38.1)	A26247-ND	1.62	1.30	1.03	643648-1
17	1.695 (43.05)	1.600 (40.64)	A26248-ND	2.07	1.66	1.32	643649-1
18	1.795 (45.59)	1.700 (43.18)	A24819-ND	2.25	1.80	1.43	643650-1
20	1.995 (50.57)	1.900 (48.26)	A24820-ND	2.07	1.66	1.32	643652-1
22	2.195 (55.75)	2.100 (53.34)	A26249-ND	2.76	2.21	1.75	643654-1
25	2.495 (63.37)	2.400 (60.96)	A24821-ND	5.88	4.71	3.73	643657-1
30	2.995 (76.07)	2.900 (73.66)	A26250-ND	7.05	5.64	4.47	643662-1

PQFP Sockets

Housing: High temperature thermoplastic, 94V-0 rated, black. **Cover:** Polyphenylene sulfide (PPS), 94V-0 rated, black. (MICRO-PITCH: Housing and Cover are high temperature thermoplastic, 94V-0 rated).

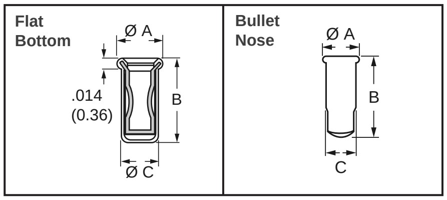
Performance Characteristics:

- Current Rating: 1amp Max.
- Operating Temp.: -55°C to +105°C
- Dielectric Withstanding Volt.: 750 VAC min.
- Capacitance (Adjacent Contacts): 1 picofarad max.
- Durability: 15 insertion/withdrawal cycles



No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Conventional AMP Sockets							
100	Housing Sub-Assembly	1.140 (28.96)	A24822-ND	16.17	12.94	10.25	821949-4
100	Cover	1.140 (28.96)	A24823-ND	2.21	1.78	1.41	821939-1
132	Housing Sub-Assembly	1.340 (34.04)	A24824-ND	21.96	17.57	13.91	821949-5
132	Cover	1.340 (34.04)	A24825-ND	2.89	2.32	1.84	821942-1
MICRO-PITCH Sockets for JEDEC Metric Quad Flat Pack IC's							
144	Housing Sub-Assembly	38.2 (1.504)	A24826-ND	21.72	17.38	13.76	822114-3
144	Cover	38.2 (1.504)	A24827-ND	2.94	2.35	1.86	822115-3
160	Housing Sub-Assembly	38.2 (1.504)	A24828-ND	24.15	19.32	15.30	822114-4
160	Cover	38.2 (1.504)	A24838-ND	3.30	2.64	2.09	822115-4
Tools							
—	Extraction Tool	—	A24839-ND	46.65	—	—	822254-1
100	Insertion Hand Tool for Conventional	—	A24831-ND	588.45	—	—	822253-1
132	Insertion Hand Tool for Conventional	—	A24841-ND	288.29	—	—	822253-2
—	Insertion Hand Tool for MICRO-PITCH	—	A24842-ND	225.92	—	—	822253-4

Miniature Spring Sockets



The Miniature Spring Socket System is composed of a series of individual sockets, each utilizing a permanently secured helical spring design to accept round, square or rectangular leads.

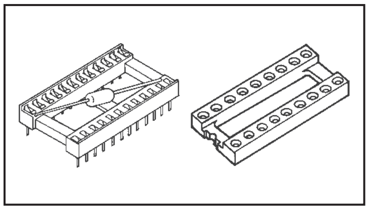
Features: • SMT and IRR processing compatibility • Five different hole size series .039 to .107" (0.99 to 2.72mm) available to accommodate a pin diameter range of .012 to .065" (0.30 to 1.65mm) and board thicknesses of .031 to .125" (0.79 to 3.18mm) • Low-Profile, above-board height of .022" (0.56mm) allows maximum board-to-board clearance • Small head diameter allow centerline spacing as close as .070" (1.78mm) • Sockets accept round, square or rectangular leads without socket orientation • Inner helical spring assures maximum reliability

Material: Spring: Beryllium Copper **Contact Sleeve:** Copper

Description	Pin Diameter Range Inch (mm)	Finish		Dimensions – Inch (mm)			Digi-Key Part No.	Price Each		AMP Part No.
		Spring	Sleeve	A	B	C		1	10	
Flat Bottom										
Closed Bottom	.013 - .020 (0.33 - 0.51)	30µ Gold	Gold Flash	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26251-ND	.33	.27	2-330808-8
	.013 - .020 (0.33 - 0.51)	30µ Gold	Tin	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26253-ND	.30	.25	6-330808-5
	.013 - .020 (0.33 - 0.51)	30µ Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26255-ND	.31	.26	2-332095-4
	.013 - .020 (0.33 - 0.51)	30µ Gold	Gold Flash	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26257-ND	.36	.29	2-332095-1
	.018 - .021 (0.46 - 0.53)	30µ Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24846-ND	.33	.27	2-331272-2
	.018 - .021 (0.46 - 0.53)	30µ Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24848-ND	.56	.45	2-331272-3
	.014 - .026 (0.36 - 0.66)	30µ Gold	Gold Flash	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24850-ND	.35	.29	50863-4
	.014 - .026 (0.36 - 0.66)	30µ Gold	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24851-ND	.31	.25	50863-5
	.014 - .026 (0.36 - 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24854-ND	.25	.21	50863-8
	.022 - .025 (0.56 - 0.64)	30µ Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24856-ND	.33	.27	2-331272-6
	.022 - .025 (0.56 - 0.64)	30µ Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24857-ND	.29	.23	2-331272-7
	.014 - .026 (0.36 - 0.66)	30µ Gold	Gold Flash	.070 (1.78)	.178 (4.52)	.050 (1.27)	A24862-ND	.35	.28	50462-6
	.014 - .026 (0.36 - 0.66)	30µ Gold	Tin	.070 (1.78)	.178 (4.52)	.050 (1.27)	A24863-ND	.30	.24	50462-8
	.026 - .029 (0.66 - 0.74)	30µ Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24864-ND	.68	.55	1-331677-1
	.026 - .029 (0.66 - 0.74)	30µ Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24865-ND	.30	.25	3-331677-8
	.026 - .033 (0.66 - 0.84)	30µ Gold	Gold Flash	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24866-ND	.36	.29	50864
	.026 - .033 (0.66 - 0.84)	30µ Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24867-ND	.31	.25	50864-1
	.026 - .033 (0.66 - 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24870-ND	.25	.21	50864-6
	.030 - .033 (0.76 - 0.84)	30µ Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24873-ND	.35	.28	1-331677-4
	.030 - .033 (0.76 - 0.84)	30µ Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24877-ND	.30	.25	1-331677-8
	.034 - .041 (0.86 - 1.04)	30µ Gold	Gold Flash	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24880-ND	.37	.30	50865
	.037 - .040 (0.94 - 1.02)	30µ Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24886-ND	.35	.29	1-332070-1
	.037 - .040 (0.94 - 1.02)	30µ Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24890-ND	.31	.25	2-332070-3
	.037 - .040 (0.94 - 1.02)	Tin	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24893-ND	.25	.21	2-332070-2
	.042 - .049 (1.07 - 1.24)	30µ Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24897-ND	.78	.63	50871-4
	.042 - .049 (1.07 - 1.24)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24898-ND	.35	.28	50871-5
	.042 - .049 (1.07 - 1.24)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A29082-ND	.27	.22	50871-8
	.050 - .057 (1.27 - 1.45)	30µ Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24900-ND	.78	.63	1-50871-3
	.050 - .057 (1.27 - 1.45)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24901-ND	.68	.55	1-50871-4
	.056 - .065 (1.42 - 1.65)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24906-ND	.35	.28	2-50871-3
	.056 - .065 (1.42 - 1.65)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A26261-ND	.29	.24	2-50871-6
Open Bottom	.013 - .020 (0.33 - 0.51)	30µ Gold	Tin	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26259-ND	.30	.25	5-330808-6
	.014 - .026 (0.36 - 0.66)	30µ Gold	Gold Flash	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24849-ND	.37	.30	50863
	.014 - .026 (0.36 - 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24853-ND	.26	.22	50863-6
	.018 - .021 (0.46 - 0.53)	30µ Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24859-ND	.35	.28	3-331272-8
	.018 - .021 (0.46 - 0.53)	30µ Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24860-ND	.30	.25	3-331272-9
	.014 - .026 (0.36 - 0.66)	30µ Gold	Tin	.070 (1.78)	.178 (4.52)	.050 (1.27)	A24861-ND	.32	.26	50462-2
	.026 - .033 (0.66 - 0.84)	Tin	Gold Flash	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24869-ND	.33	.27	50864-5
	.026 - .033 (0.66 - 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24872-ND	.27	.22	50864-8
	.030 - .033 (0.76 - 0.84)	Tin	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24874-ND	.32	.26	2-331677-2
	.030 - .033 (0.76 - 0.84)	30µ Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24875-ND	.37	.30	2-331677-6
	.034 - .041 (0.86 - 1.04)	30µ Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24883-ND	.30	.25	50865-3
	.034 - .041 (0.86 - 1.04)	Tin	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24884-ND	.24	.20	50865-6
	.037 - .040 (0.94 - 1.02)	30µ Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24888-ND	.37	.30	1-332070-4
	.030 - .033 (0.76 - 0.84)	Tin	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24889-ND	.32	.26	2-332070-5
	.037 - .040 (0.94 - 1.02)	Tin	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24891-ND	.32	.26	2-332070-9
	.042 - .049 (1.07 - 1.24)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24899-ND	.37	.30	50871-1
	.042 - .049 (1.07 - 1.24)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A29083-ND	.56	.45	50871-6
	.050 - .057 (1.27 - 1.45)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24902-ND	.72	.58	1-50871-0
	.056 - .065 (1.42 - 1.65)	30µ Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24905-ND	.42	.34	1-50871-8
	.056 - .065 (1.42 - 1.65)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A26260-ND	.37	.30	1-50871-9
	.056 - .065 (1.42 - 1.65)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A26262-ND	.29	.23	2-50871-4
Knockout Bottom	.013 - .020 (0.33 - 0.51)	30µ Gold	Gold Flash	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26252-ND	.35	.28	3-330808-8
	.013 - .020 (0.33 - 0.51)	30µ Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26256-ND	.64	.52	1-332095-9
	.013 - .020 (0.33 - 0.51)	30µ Gold	Gold Flash	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26258-ND	.36	.29	2-332095-2
	.018 - .021 (0.46 - 0.53)	30µ Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24847-ND	.35	.28	3-331272-0
	.014 - .026 (0.36 - 0.66)	30µ Gold	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24852-ND	.63	.51	50863-3
	.014 - .026 (0.36 - 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24855-ND	.51	.42	50863-7
	.022 - .025 (0.56 - 0.64)	30µ Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24858-ND	.30	.25	3-331272-5
	.026 - .033 (0.66 - 0.84)	30µ Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24868-ND	.33	.27	50864-3
	.026 - .033 (0.66 - 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24871-ND	.52	.42	50864-7
	.030 - .033 (0.76 - 0.84)	30µ Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24876-ND	.37	.30	2-331677-9
	.030 - .033 (0.76 - 0.84)	30µ Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24878-ND	.32	.26	3-331677-4
	.034 - .041 (0.86 - 1.04)	30µ Gold	Gold Flash	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24881-ND	.76	.61	50865-2
	.034 - .041 (0.86 - 1.04)	30µ Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24882-ND	.34	.27	50865-1
	.034 - .041 (0.86 - 1.04)	Tin	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24885-ND	.27	.22	50865-7
	.037 - .040 (0.94 - 1.02)	30µ Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24887-ND	.37	.30	1-332070-7
	.037 - .040 (0.94 - 1.02)	30µ Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24892-ND	.32	.26	3-332070-5
	.037 - .040 (0.94 - 1.02)	Tin	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24894-ND	.26	.22	3-332070-4
Bullet Nose Bottom										
Loose Piece	.012 - .021 (0.30 - 0.53)	30µ Gold	Tin	.066 (1.67)	.184 (4.64)	.042 (1.07)	A24843-ND	.17	.14	645946-2
	.015 - .021 (0.38 - 0.53)	30µ Gold	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A24844-ND	.31	.25	645945-2
	.015 - .021 (0.38 - 0.53)	Tin	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A24845-ND	.13	.11	645945-1
	.037 - .041 (0.94 - 1.04)	30µ Gold	Tin	.089 (2.26)	.260 (6.60)	.074 (1.88)	A24895-ND	.25	.20	645500-1
	.042 - .049 (1.07 - 1.24)	Gold Flash	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A29046-ND	.57	.46	645980-2
	.042 - .049 (1.07 - 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A29068-ND	.24	.20	645980-1
Carrier Strip w/Sealant	.028 - .033 (0.71 - 0.84)	30µ Gold	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A24879-ND	—	.18	1-645986-2
	.028 - .033 (0.71 - 0.84)	Tin	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A28507-ND	—	.32	1-645986-1
Carrier Strip without Sealant	.037 - .041 (0.94 - 1.04)	30µ Gold	Tin	.089 (2.03)	.260 (7.37)	.074 (1.55)	A24896-ND	—	.22	1-645502-1
	.042 - .049 (1.07 - 1.24)	Gold Flash	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A29045-ND	—	.26	1-645979-2
	.042 - .049 (1.07 - 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A29069-ND	—	.22	645979-1

ON-SHORE TECHNOLOGY, INC.

Surface Mount I.C. Sockets



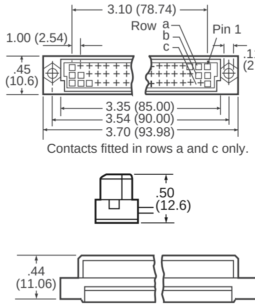
Special Features/Applications:
- For surface mounted technology
- Tin for solder must be in the pc board

Technical Data:
- Insulator body material: glass-filled polyethersulphone
- Temperature range: 55°C to +200°C continuous
- Solder temperature: 280°C, intermittent

Plating:
- Pin tin plated min. 80m" nickel + min. 150m" tin-lead
- High temperature insulator

No. of Pins	Contact Spacing In. (mm)	Digi-Key Part No.	Price Each 1	10	100	1,000
Surface Mount - Screw Machined Pins w/out Solder Tail						
6	.300 (7.62)	ED2201-ND	.72	.60	.50	.41
8	.300 (7.62)	ED2202-ND	.95	.79	.66	.55
14	.300 (7.62)	ED2203-ND	1.67	1.39	1.16	.96
16	.300 (7.62)	ED2204-ND	1.72	1.43	1.19	.99
18	.300 (7.62)	ED2205-ND	1.93	1.60	1.34	1.11
20	.300 (7.62)	ED2206-ND	2.15	1.78	1.48	1.23
22	.400 (10.16)	ED2207-ND	2.36	1.96	1.63	1.36
24	.600 (15.24)	ED2208-ND	2.87	2.38	1.98	1.64
28	.600 (15.24)	ED2209-ND	3.34	2.76	2.30	1.91
36	.600 (15.24)	ED2210-ND	3.86	3.20	2.67	2.22
40	.600 (15.24)	ED2211-ND	4.29	3.56	2.96	2.46
48	.600 (15.24)	ED2212-ND	5.15	4.27	3.56	2.95
64	.600 (15.24)	ED2213-ND	6.87	5.69	4.74	3.94

NorComp DIN Connectors



Contacts fitted in rows a and c only.

No. of Rows	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
3	64	Socket-IDC Type	T8064-ND	13.60	11.73	7.98	689-096-290-001
—	64	Strain Relief	T0064-ND	1.07	.93	.63	164-096-001-000

See **3M Ribbon Cable** in Index for Ribbon Cable (MC64M-ND and MC64G-ND).

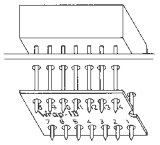
OK Industries
Division of Jonard Industries Corp.

Socket Wrap I.D.

Now offering an exciting, low cost item used to identify pin numbers on wire-wrapping sockets. Consisting of a socket-sized plastic panel with numbered holes in the pin location, the Socket Wrap-ID is simply slipped onto the socket before wrapping.

You can also write on them for easy identification of location, IC part number, function, etc. These unique items greatly simplify both initial wire-wrapping and subsequent troubleshooting or repair.

A great help to hobbyists, technicians, and production facilities alike.



- Press fit to socket pins
- Improves wiring speed
- Instant pin numbering
- Reduces wiring errors
- Large space for user information
- Simplifies troubleshooting

Spacing In. (mm)	Description	Digi-Key Part No.	Price Each 5	10
.3 (7.62)	8 Pin I.D.	K470-ND	—	.61
	14 Pin I.D.	K266-ND	—	.50
	16 Pin I.D.	K267-ND	—	.50
	20 Pin I.D.	K269-ND	.99	—
.4 (10.16)	24 Pin I.D.	K495-ND	.99	—
.6 (15.24)	28 Pin I.D.	K272-ND	.99	—
	40 Pin I.D.	K486-ND	1.98	—

Universal Serial Bus Connectors

Features:
- USB receptacles for thru-hole and surface mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully compatible with USB 1.0 specification
- Passes 16MHz Signal Attentuation per ASTM-D-4566

Material Specifications:
- Shell and Contact: Copper alloy
- Shell Finish: Tin/lead over copper
- Contact Finish: 30µ selective gold, tin/lead tail
- Housing: Glass filed thermoplastic rated UL94V-0

Ratings:
- Voltage: 30VAC (rms)
- Current: 1A max. per contact for 30°C temperature rise. Thru-hole housings rated at 130°C for wave soldering. SMT housing rated at 240°C for reflow soldering

Electrical:
- Contact Resistance: 30mW max.
- Insulation Resistance: 1000mΩ min.
- Dielectric Withstanding Voltage: 750VAC at sea level
- Capacitance: 2pF max.

Fig. 1

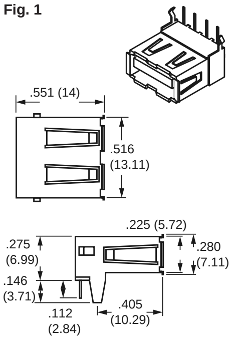


Fig. 2

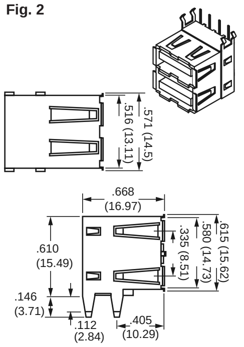


Fig. 3

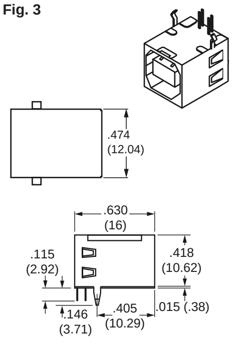


Fig. 4

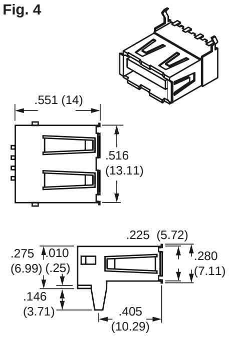
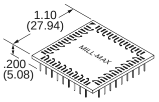


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
1	Type A Receptacle, Single, Thru Hole	ED90001-ND	1.23	1.04	.86	.63	.53	896-30-004-90-000000
2	Type A Receptacle, Double, Thru Hole	ED90002-ND	1.93	1.64	1.34	.99	.84	896-30-008-90-000000
3	Type B Receptacle, Single, Thru Hole	ED90003-ND	1.23	1.04	.86	.63	.53	897-30-004-90-000000
4	Type A Receptacle, Single, Surface Mount	ED90004-ND	1.23	1.04	.86	.63	.53	896-30-004-00-000000

68-Position PLCC Adapter

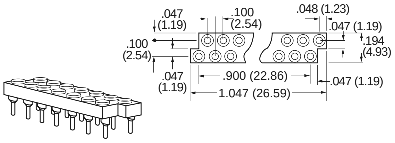


Pin Plating: Gold

Description	Digi-Key Part No.	Price Each 1	10	100	500	Mill-Max Part No.
68-Pos. PLCC Adapter	ED7700-ND	10.05	8.50	6.96	5.14	S894-10-068-00-240000

Zig Zag Sockets

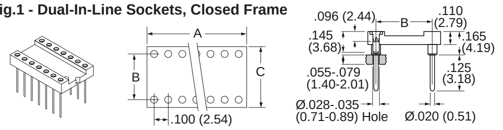
Double row staggered strips will accommodate Single-in-Line Zig-Zag memory packages on high density boards, left stackable. **Insertion Characteristics:** 4-finger low force **Plating:** Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 30µ" Au



No. of Pins	Insulator Body	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
20	Left Stackable	ED2220-ND	1.37	.95	.77	.66	.55	410-93-220-10-001

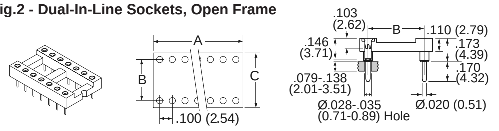
Dual-In-Line and PLCC Sockets

Fig.1 - Dual-In-Line Sockets, Closed Frame



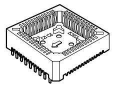
• Closed frame insulator withstands high mechanical impact. • Low profile • Plating; Sleeve (Pin) 200µ"Sn and Contact (Clip) 30µ" Au.

Fig.2 - Dual-In-Line Sockets, Open Frame

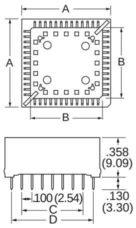


• DIP sockets with solder tail length of .170" ((4.32mm), allowing application on multilayer PCBs up to .139" (3.53mm). • Plating; Sleeve (Pin) 200µ"Sn and Contact (Clip) 30µ" Au.

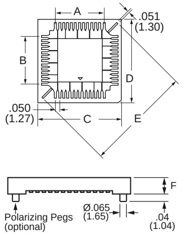
Fig.3 - Compact PLCC Sockets



Solder Tail



Surface Mount with Polarizing Posts (optional)



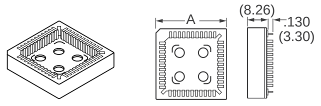
• Designed for JEDEC type devices. • Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads. • The brown PPS (Ryton R-4) insulator has optional polarizing pegs (PP).

No. of Pins	Dimensions (Inch) A	B	C	D	E	F	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Fig. 1 — Dual-In-Line Sockets, Solder Tail Closed Frame											
8	0.4	0.3	0.4	—	—	—	ED60000-ND	.42	.29	.24	210-93-308-41-001000
14	0.7	0.3	0.4	—	—	—	ED60001-ND	.73	.51	.41	210-93-314-41-001000
16	0.8	0.3	0.4	—	—	—	ED60002-ND	.83	.58	.47	210-93-316-41-001000
24	1.2	0.3	0.4	—	—	—	ED60003-ND	1.25	.87	.71	210-93-324-41-001000
24	1.2	0.6	0.7	—	—	—	ED60004-ND	1.25	.87	.71	210-93-624-41-001000
28	1.4	0.6	0.7	—	—	—	ED60005-ND	1.46	1.02	.82	210-93-628-41-001000
32	1.6	0.6	0.7	—	—	—	ED60006-ND	1.67	1.16	.94	210-93-632-41-001000
40	2.0	0.6	0.7	—	—	—	ED60007-ND	2.09	1.45	1.17	210-93-640-41-001000
Fig. 2 — Dual-In-Line Sockets, Long Solder Tail for Multilayer PC-Boards, Open Frame											
8	0.4	0.3	0.4	—	—	—	ED60008-ND	.59	.41	.33	111-93-308-41-001000
14	0.7	0.3	0.4	—	—	—	ED60009-ND	.98	.69	.56	111-93-314-41-001000
16	0.8	0.3	0.4	—	—	—	ED60010-ND	1.13	.78	.63	111-93-316-41-001000
20	1.0	0.3	0.4	—	—	—	ED60011-ND	1.36	.95	.77	111-93-320-41-001000
24	1.2	0.3	0.4	—	—	—	ED60012-ND	1.63	1.13	.92	111-93-324-41-001000
24	1.2	0.6	0.7	—	—	—	ED60013-ND	1.63	1.13	.92	111-93-624-41-001000
28	1.4	0.6	0.7	—	—	—	ED60014-ND	1.90	1.32	1.07	111-93-628-41-001000
32	1.6	0.6	0.7	—	—	—	ED60015-ND	2.17	1.51	1.22	111-93-632-41-001000
40	2.0	0.6	0.7	—	—	—	ED60016-ND	2.72	1.89	1.53	111-93-640-41-001000
Fig. 3 — Compact PLCC Sockets Solder Tail											
20	.590	.360	.200	.400	—	—	ED80000-ND	1.11	1.00	.89	540-99-020-24-000000
28	.690	.460	.300	.500	—	—	ED80001-ND	1.37	1.24	1.10	540-99-028-24-000000
32*	.783/.683	.564/.464	.400/.300	.600/.500	—	—	ED80002-ND	1.49	1.35	1.20	540-99-032-24-000000
44	.890	.660	.500	.700	—	—	ED80003-ND	1.48	1.33	1.19	540-99-044-24-000000
52	.990	.760	.600	.800	—	—	ED80004-ND	2.06	1.86	1.65	540-99-052-24-000000
68	1.190	.960	.800	1.000	—	—	ED80005-ND	1.87	1.68	1.50	540-99-068-24-000000
84	1.390	1.160	1.000	1.200	—	—	ED80006-ND	2.39	2.15	1.91	540-99-084-24-000000
Fig. 3 — Compact PLCC Sockets Surface Mount											
20	.200	.200	.585	.585	.657	.180	ED80007-ND	1.26	1.13	1.01	540-99-020-17-400000
28	.300	.300	.685	.685	.799	.180	ED80008-ND	1.29	1.16	1.03	540-99-028-17-400000
32*	.300	.400	.665	.766	.885	.168	ED80009-ND	1.37	1.24	1.10	540-99-032-17-400000
44	.500	.500	.885	.885	1.082	.180	ED80010-ND	1.67	1.51	1.34	540-99-044-17-400000
52	.600	.600	1.000	1.000	1.224	.180	ED80011-ND	1.78	1.60	1.42	540-99-052-17-400000
68	.800	.800	1.202	1.202	1.507	.180	ED80012-ND	1.98	1.78	1.59	540-99-068-17-400000
84	1.000	1.000	1.400	1.400	1.791	.180	ED80013-ND	2.21	1.99	1.77	540-99-084-17-400000
Fig. 3 — Compact PLCC Sockets Surface Mount with Polarizing Posts											
20	.200	.200	.585	.585	.657	.180	ED80014-ND	1.26	1.13	1.01	540-99-020-17-400200
28	.300	.300	.685	.685	.799	.180	ED80015-ND	1.29	1.16	1.03	540-99-028-17-400200
32*	.300	.400	.665	.766	.885	.168	ED80016-ND	1.37	1.24	1.10	540-99-032-17-400200
44	.500	.500	.885	.885	1.082	.180	ED80017-ND	1.67	1.51	1.34	540-99-044-17-400200
52	.600	.600	1.000	1.000	1.224	.180	ED80018-ND	1.78	1.60	1.42	540-99-052-17-400200
68	.800	.800	1.202	1.202	1.507	.180	ED80019-ND	1.98	1.78	1.59	540-99-068-17-400200
84	1.000	1.000	1.400	1.400	1.791	.180	ED80020-ND	2.21	1.99	1.77	540-99-084-17-400200

* Rectangular

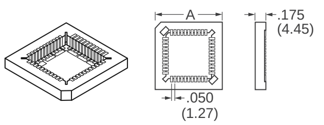
Low Cost PLCC Sockets

Fig.1 — Thru-Hole Mount



• Accepts JEDEC PLCCs MO-052 AE • Holes for drainage • Standoffs provide clearance for heat dissipation and cleaning • Internal standoffs ensure proper positioning of chip carrier in socket • Easy access for probing installed chip carrier

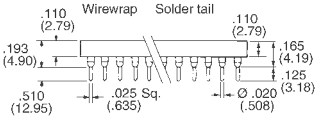
Fig.2 — Surface Mount

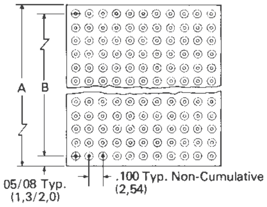


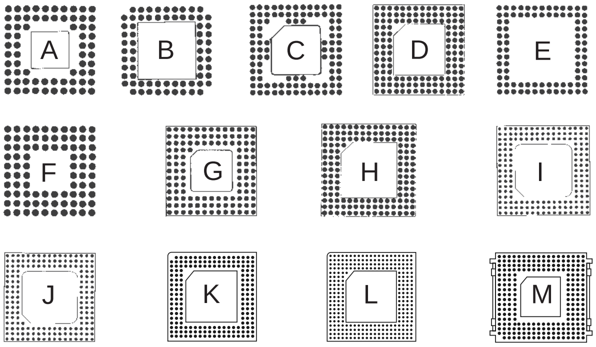
• Accepts JEDEC PLCCs MO-052 AE • Low profile for high density PC board stacking • Standoffs provide clearance for heat dissipation and cleaning

No. of Pins	Dimensions - Inch (mm) A	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Fig. 1 — Thru-Hole Mount						
20	0.613 (15.57)	ED80021-ND	.91	.77	.63	940-99-020-24-000000
28	0.720 (18.29)	ED80022-ND	.80	.68	.56	940-99-028-24-000000
32	0.820 (20.83) / .722 (18.34)	ED80023-ND	.82	.69	.57	940-99-032-24-000000
44	0.920 (23.37)	ED80024-ND	.83	.71	.58	940-99-044-24-000000
52	1.020 (25.91)	ED80025-ND	.89	.76	.62	940-99-052-24-000000
68	1.220 (30.99)	ED80026-ND	.91	.78	.64	940-99-068-24-000000
84	1.420 (36.07)	ED80027-ND	1.14	.97	.79	940-99-084-24-000000
Fig. 2 — Surface Mount						
20	0.613 (15.57)	ED80028-ND	.83	.71	.58	940-99-020-17-400000
28	0.720 (18.29)	ED80029-ND	.92	.79	.64	940-99-028-17-400000
32	0.820 (20.83) / .720 (18.29)	ED80030-ND	.73	.63	.51	940-99-032-17-400000
44	0.920 (23.37)	ED80031-ND	.87	.74	.61	940-99-044-17-400000
52	1.020 (25.91)	ED80032-ND	1.06	.90	.74	940-99-052-17-400000
68	1.220 (30.99)	ED80033-ND	1.04	.88	.72	940-99-068-17-400000
84	1.420 (36.07)	ED80034-ND	1.32	1.12	.92	940-99-084-17-400000

Pin Grid Array Sockets







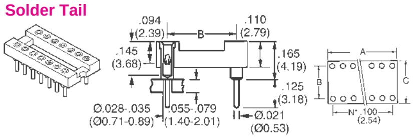
MATERIAL: • **Insulator body:** Standard material is glass filled thermoplastic polyester (PCT), self-extinguishing, rated UL94V-0. • **Color:** Black. • **Receptacle (sleeve):** Screw-machined brass (QQ-B-626), plated 200µ" tin-lead (SnPb 90/10) over 80-120µ" nickel. • **Pin:** Screw-machined brass (QQ-B-626), plated 200µ" tin-lead (SnPb 90/10) over 80-120µ" nickel. • **Contact (clip):** Stamped Beryllium-copper (QQ-C-533) heat treated, plated gold flash, 30µ" gold, over 80-120µ" nickel.

ELECTRICAL DATA: • **Rated Current:** 1A • **Rated Voltage:** 100 VRMS/150 VDC • **Contact Resistance:** 10 mΩ max. • **Insulation resistance:** 10,000 MΩ min. • **Dielectric Strength:** 1000 VRMS min. • **Capacity:** 0.8 pF max. • **Operating Temperature Range:** -55°C to +125°C

Pin Grid Array Size	No. of Pins	Foot-print (See Diag.)	Insulator Size Inches (mm) A	B	Description (Type of Contacts)	Frame Style	Digi-Key Part No.	Price Each 1	10	100
10x10	68	A	1.0 (25.40)	.9 (22.86)	Solder-Tail	Open	ED2002-ND	3.37	2.92	2.36
11x11	68	B	1.1 (27.94)	1.0 (25.40)	Solder-Tail	Open	ED2004-ND	3.37	2.92	2.36
13x13	101	C	1.3 (33.02)	1.2 (30.48)	Solder-Tail	Open	ED2007-ND	4.68	4.06	3.28
14x14	132	D	1.4 (35.56)	1.3 (33.02)	Solder-Tail	Open	ED2008-ND	6.12	5.31	4.29
13x13	88	E	1.3 (33.02)	1.2 (30.48)	Solder-Tail	Open	ED2009-ND	4.36	3.78	3.06
13x13	121	G	1.3 (33.02)	1.2 (30.48)	Solder-Tail	Open	ED2027-ND	5.61	4.87	3.93
15x15	145	H	1.5 (38.10)	1.4 (35.56)	Solder-Tail	Open	ED2029-ND	6.72	5.83	4.71
17x17	168	I	1.7 (43.18)	1.6 (40.64)	Solder-Tail	Open	ED2030-ND	7.79	6.75	5.46
17x17	169	J	1.7 (43.18)	1.6 (40.64)	Solder-Tail	Open	ED2031-ND	7.84	6.80	5.49
10x10	68	A	1.0 (25.40)	.9 (22.86)	3 Level Wire Wrap	Open	ED2014-ND	9.50	8.23	6.65
11x11	68	B	1.1 (27.94)	1.0 (25.40)	3 Level Wire Wrap	Open	ED2016-ND	9.50	8.23	6.65
14x14	132	D	1.4 (35.56)	1.3 (33.02)	3 Level Wire Wrap	Open	ED2020-ND	17.24	14.94	12.07
13x13	88	E	1.3 (33.02)	1.2 (30.48)	3 Level Wire Wrap	Open	ED2021-ND	11.49	9.97	8.05
10x10	84	F	1.0 (25.40)	.9 (22.86)	3 Level Wire Wrap	Open	ED2023-ND	10.10	8.76	7.08
13x13	121	G	1.3 (33.02)	1.2 (30.48)	3 Level Wire Wrap	Open	ED2037-ND	15.80	13.70	11.07
15x15	145	H	1.5 (38.10)	1.4 (35.56)	3 Level Wire Wrap	Open	ED2039-ND	18.75	16.25	13.13
18x18	179	K	1.8 (45.72)	1.7 (43.18)	Solder-Tail	Open	ED2042-ND	8.30	7.20	5.81
21x21	273	L	2.1 (53.34)	2.0 (50.80)	Solder-Tail	Open	ED2044-ND	12.53	10.86	8.78
18x18	223	M	1.8 (45.72)	1.7 (43.18)	Solder-Tail	Open	ED2046-ND	13.18	11.43	9.23

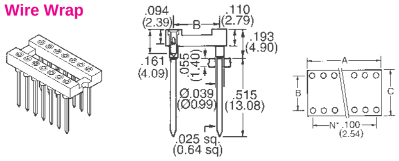
Dual-In-Line Sockets – Open Frame (Screw Machined)

Solder Tail



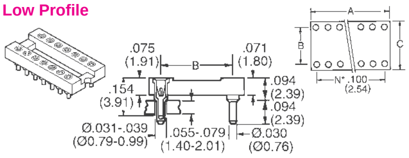
Most popular line of standard low profile IC-Sockets. Open frame design leaves space beneath IC for improved heat dissipation, easier PCB cleaning and inspection. **Insertion Characteristics:** 4-finger standard. **Plating: For ED3308-ED3964:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 30µ" Au. **For ED3108-ED3764:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 150µ" Sn. **For ED56083-ED56646:** Sleeve (Pin) – 10µ" Au. Contact (Clip) – 30µ" Au.

Wire Wrap



Solderless wire wrap terminals are firmly locked in the insulator body to withstand torque of wrapping tool. Length of terminal for three-level wrapping. **Insertion Characteristics:** 4-finger standard. **Plating: For ED4308-ED4964:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 30µ" Au. **For ED57083-ED57406:** Sleeve (Pin) — 10µ" Au. Contact (Clip) — 30µ" Au

Low Profile



"Ultra low profile" Dual-in-line sockets are equipped with specially designed contacts allowing .095" (2.41mm) height above PCB. Special short contact requires .075" (1.91mm) insertion depth only. Solder tail diameter .030" (.76mm). **Insertion Characteristics:** 4-finger short contact. **Plating:** Sleeve (Pin) — 200µ" Sn. Contact (Clip) — 30µ" Au.

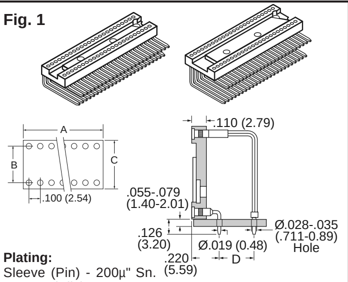
No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
Solder Tail (Gold)										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3308-ND	.42	.29	.24	.20	.17	110-93-308-41-001
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3314-ND	.73	.51	.41	.36	.30	110-93-314-41-001
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3316-ND	.83	.58	.47	.40	.34	110-93-316-41-001
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3318-ND	.94	.66	.53	.46	.38	110-93-318-41-001
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3320-ND	1.04	.73	.59	.51	.42	110-93-320-41-001
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3324-ND	1.25	.87	.71	.61	.51	110-93-324-41-001
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3328-ND	1.46	1.02	.82	.71	.59	110-93-328-41-001
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED3422-ND	1.15	.80	.65	.56	.46	110-93-422-41-001
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3424-ND	1.25	.87	.71	.61	.51	110-93-424-41-001
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3624-ND	1.25	.87	.71	.61	.51	110-93-624-41-001
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3628-ND	1.46	1.02	.82	.71	.59	110-93-628-41-001
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3632-ND	1.67	1.16	.94	.81	.67	110-93-632-41-001
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3640-ND	2.09	1.45	1.17	1.01	.84	110-93-640-41-001
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3648-ND	2.50	1.74	1.41	1.21	1.01	110-93-648-41-001
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED3950-ND	2.61	1.81	1.46	1.26	1.05	110-93-950-41-001
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3964-ND	3.34	2.32	1.87	1.61	1.34	110-93-964-41-001
Solder Tail (Gold)										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED56083-ND	.59	.42	.34	.29	.24	110-13-308-41-001
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED56143-ND	1.04	.72	.58	.50	.42	110-13-314-41-001
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED56163-ND	1.18	.82	.67	.57	.48	110-13-316-41-001
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED56183-ND	1.33	.93	.75	.64	.54	110-13-318-41-001
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED56203-ND	1.48	1.03	.83	.71	.60	110-13-320-41-001
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED56243-ND	1.77	1.23	1.00	.86	.71	110-13-324-41-001
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED56283-ND	2.07	1.44	1.16	1.00	.83	110-13-328-41-001
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED56246-ND	1.77	1.23	1.00	.86	.71	110-13-624-41-001
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED56286-ND	2.07	1.44	1.16	1.00	.83	110-13-628-41-001
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED56326-ND	2.36	1.64	1.33	1.14	.95	110-13-632-41-001
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED56406-ND	2.96	2.05	1.66	1.42	1.19	110-13-640-41-001
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED56646-ND	4.73	3.28	2.65	2.27	1.90	110-13-964-41-001
Solder Tail (Tin)										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3108-ND	.32	.23	.19	.16	.13	110-99-308-41-001
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3114-ND	.57	.40	.32	.28	.23	110-99-314-41-001
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3116-ND	.65	.45	.37	.32	.26	110-99-316-41-001
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3118-ND	.73	.51	.41	.35	.30	110-99-318-41-001
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3120-ND	.81	.57	.46	.39	.33	110-99-320-41-001
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3124-ND	.97	.68	.55	.47	.39	110-99-324-41-001
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3128-ND	1.13	.79	.64	.55	.46	110-99-328-41-001
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3524-ND	.97	.68	.55	.47	.39	110-99-424-41-001
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3724-ND	.97	.68	.55	.47	.39	110-99-624-41-001
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3728-ND	1.13	.79	.64	.55	.46	110-99-628-41-001
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3732-ND	1.30	.90	.73	.63	.52	110-99-632-41-001
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3740-ND	1.62	1.13	.91	.78	.65	110-99-640-41-001
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3748-ND	1.94	1.35	1.09	.94	.78	110-99-648-41-001
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3764-ND	2.59	1.80	1.46	1.25	1.04	110-99-964-41-001

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
Wire Wrap										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED4308-ND	.92	.64	.52	.44	.37	123-93-308-41-001
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED4314-ND	1.60	1.11	.90	.77	.65	123-93-314-41-001
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED4316-ND	1.83	1.27	1.03	.88	.74	123-93-316-41-001
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED4318-ND	2.06	1.43	1.16	.99	.83	123-93-318-41-001
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED4320-ND	2.29	1.59	1.29	1.10	.92	123-93-320-41-001
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED4324-ND	2.75	1.91	1.54	1.32	1.10	123-93-324-41-001
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED4328-ND	3.20	2.22	1.80	1.54	1.29	123-93-328-41-001
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED4422-ND	2.52	1.75	1.41	1.21	1.01	123-93-422-41-001
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED4424-ND	2.75	1.91	1.54	1.32	1.10	123-93-424-41-001
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED4624-ND	2.75	1.91	1.54	1.32	1.10	123-93-624-41-001
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED4628-ND	3.20	2.22	1.80	1.54	1.29	123-93-628-41-001
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED4632-ND	3.66	2.54	2.05	1.76	1.47	123-93-632-41-001
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED4640-ND	4.58	3.18	2.57	2.20	1.83	123-93-640-41-001
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED4648-ND	5.49	3.81	3.08	2.64	2.20	123-93-648-41-001
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED4950-ND	5.72	3.97	3.21	2.75	2.29	123-93-950-41-001
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED4964-ND	7.32	5.08	4.10	3.52	2.93	123-93-964-41-001
Wire Wrap										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED57083-ND	1.16	.81	.66	.56	.47	123-13-308-41-001
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED57143-ND	2.04	1.42	1.15	.98	.82	123-13-314-41-001
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED57163-ND	2.33	1.62	1.31	1.12	.94	123-13-316-41-001
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED57203-ND	2.91	2.02	1.63	1.40	1.17	123-13-320-41-001
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED57243-ND	3.49	2.43	1.96	1.68	1.40	123-13-324-41-001
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57246-ND	3.49	2.43	1.96	1.68	1.40	123-13-624-41-001
28	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57286-ND	4.07	2.83	2.29	1.96	1.63	123-13-628-41-001
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED57406-ND	5.82	4.04	3.26	2.80	2.33	123-13-640-41-001
Low Profile										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED5308-ND	.70	.49	.40	.34	.29	115-93-308-41-003
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED5314-ND	1.18	.82	.66	.57	.48	115-93-314-41-003
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED5316-ND	1.35	.94	.76	.65	.54	115-93-316-41-003
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED5318-ND	1.52	1.05	.85	.73	.61	115-93-318-41-003
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED5320-ND	1.62	1.13	.91	.78	.65	115-93-320-41-003
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED5324-ND	1.95	1.35	1.09	.94	.78	115-93-324-41-003
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED5328-ND	2.27	1.58	1.28	1.10	.91	115-93-328-41-003
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED5422-ND	1.79	1.24	1.00	.86	.72	115-93-422-41-003
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED5424-ND	1.95	1.35	1.09	.94	.78	115-93-424-41-003
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED5624-ND	1.95	1.35	1.09	.94	.78	115-93-624-41-003
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED5628-ND	2.27	1.58	1.28	1.10	.91	115-93-628-41-003
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED5632-ND	2.60	1.81	1.46	1.25	1.04	115-93-632-41-003
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED5640-ND	3.25	2.26	1.82	1.56	1.30	115-93-640-41-003
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED5648-ND	3.90	2.71	2.19	1.88	1.56	115-93-648-41-003

Dual-In-Line Sockets – Right Angle Mount Closed Frame

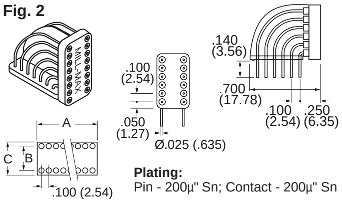
- For components to be mounted perpendicularly to the PCB, such as LED displays.
- Horizontal mount solder tails are available with either .300" (7.62mm) [standard] or .100" (2.54mm) row spacing.

Fig. 1



Plating:
Sleeve (Pin) - 200µ" Sn.
Contact (Clip) - 30µ" Au.

Fig. 2



Plating:
Pin - 200µ" Sn; Contact - 200µ" Sn

Fig.	No. of Pins	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
1	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58407-ND	2.46	1.71	1.38	1.19	.99	299-93-306-10-001
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58408-ND	3.28	2.28	1.84	1.58	1.32	299-93-308-10-001
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58409-ND	3.93	2.73	2.21	1.89	1.58	299-93-310-10-001
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58410-ND	4.71	3.27	2.64	2.27	1.89	299-93-312-10-001
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58411-ND	5.50	3.82	3.08	2.64	2.20	299-93-314-10-001
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58412-ND	6.29	4.36	3.53	3.02	2.52	299-93-316-10-001
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58413-ND	7.07	4.91	3.97	3.40	2.83	299-93-318-10-001
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58414-ND	7.58	5.26	4.25	3.64	3.04	299-93-320-10-001
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58415-ND	9.10	6.31	5.10	4.37	3.64	299-93-324-10-001
1	8	0.4 (10.16)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58416-ND	3.80	2.64	2.13	1.83	1.52	299-93-608-10-002
	10	0.5 (12.70)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58417-ND	4.55	3.16	2.55	2.19	1.82	299-93-610-10-002
	12	0.6 (15.24)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58418-ND	5.46	3.79	3.06	2.63	2.19	299-93-612-10-002
	14	0.7 (17.78)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58419-ND	6.37	4.42	3.57	3.06	2.55	299-93-614-10-002
	16	0.8 (20.30)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58420-ND	7.28	5.05	4.08	3.50	2.92	299-93-616-10-002
	18	0.9 (22.86)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58421-ND	8.19	5.68	4.59	3.94	3.28	299-93-618-10-002
	20	1.0 (25.40)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58422-ND	8.78	6.09	4.92	4.22	3.52	299-93-620-10-002
	22	1.1 (27.94)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58423-ND	9.66	6.70	5.41	4.64	3.87	299-93-622-10-002
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58424-ND	10.54	7.31	5.91	5.06	4.22	299-93-624-10-002
	26	1.3 (33.02)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58425-ND	11.42	7.92	6.40	5.49	4.57	299-93-626-10-002
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58426-ND	12.30	8.53	6.89	5.91	4.92	299-93-628-10-002
	30	1.5 (38.10)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58427-ND	13.17	9.14	7.38	6.33	5.27	299-93-630-10-002
	32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58428-ND	14.05	9.75	7.87	6.75	5.63	299-93-632-10-002
	36	1.8 (45.72)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58429-ND	15.81	10.97	8.86	7.59	6.33	299-93-636-10-002
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58430-ND	17.57	12.18	9.84	8.44	7.03	299-93-640-10-002
1	6	.300 (7.62)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58431-ND	2.40	1.67	1.35	1.16	.97	299-93-306-11-001
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58432-ND	3.20	2.22	1.80	1.54	1.29	299-93-308-11-001
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58433-ND	3.84	2.67	2.16	1.85	1.54	299-93-310-11-001
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58434-ND	4.61	3.20	2.58	2.22	1.85	299-93-312-11-001
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58435-ND	5.37	3.73	3.01	2.58	2.15	299-93-314-11-001
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58436-ND	6.14	4.26	3.44	2.95	2.46	299-93-316-11-001
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58437-ND	6.91	4.79	3.87	3.32	2.77	299-93-318-11-001
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58438-ND	7.41	5.14	4.15	3.56	2.97	299-93-320-11-001
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58439-ND	8.89	6.17	4.98	4.27	3.56	299-93-324-11-001
2	10	0.5 (12.70)	0.2 (5.08)	0.3 (7.62)	—	ED7800-ND	8.41	5.84	4.72	4.04	3.37	299-99-210-12-001800

IC Sockets

With Integral Decoupling Capacitor Machine Screw Contact

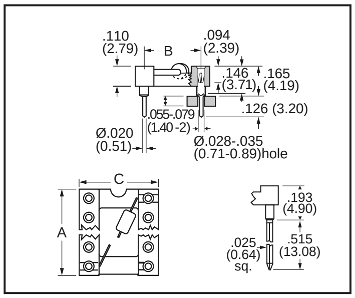
Special Features/Applications:

- To eliminate noise at the source before it can reach the chip
- Advantages for uses such as high speed logic and memory applications
- To eliminate long leads as potential sources of noise because capacitor leads are connected directly to the ground and voltage pin of the socket
- To save minimum of 12% on board space

Technical Data:

- Insulator body material: glass filled polyester UL94VO
- Pin: screw machined

Socket with integral glass encapsulated ceramic capacitor 0.1µF, 50 VDC



Type of Pins	No. of Pins	Dim. – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.
Tin Plated, Solder Tab	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2101-ND	1.68	14.56	117.60	110-93-314-41-801000
	16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2102-ND	1.80	15.60	126.00	110-93-316-41-801000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2103-ND	1.92	16.67	134.61	110-93-318-41-801000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2104-ND	1.96	16.98	137.13	110-93-320-41-801000
	24#	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED2106-ND	2.24	19.37	156.45	110-93-324-41-801000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2105-ND	2.47	21.40	172.83	110-93-624-41-801000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2107-ND	2.67	23.11	186.69	110-93-628-41-801000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2108-ND	3.14	27.25	220.08	110-93-640-41-801000
Gold Plated, Solder Tab	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2109-ND	1.98	17.19	138.81	110-13-314-41-801000
	16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2110-ND	2.17	18.82	152.04	110-13-316-41-801000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2111-ND	2.32	20.12	162.54	110-13-318-41-801000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2112-ND	2.40	20.80	168.00	110-13-320-41-801000
	24#	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED2114-ND	2.77	24.00	193.83	110-13-324-41-801000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2113-ND	3.00	26.03	210.21	110-13-624-41-801000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2115-ND	3.27	28.31	228.69	110-13-628-41-801000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2116-ND	3.86	33.49	270.48	110-13-640-41-801000
3-Level Tin Plated	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2117-ND	2.72	23.53	190.05	123-93-314-41-801000
	16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2118-ND	3.00	26.00	210.00	123-93-316-41-801000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2119-ND	3.24	28.11	227.01	123-93-318-41-801000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2120-ND	3.38	29.30	236.67	123-93-320-41-801000
Wire-Wrap	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2121-ND	4.16	36.09	291.48	123-93-624-41-801000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2122-ND	4.64	40.25	325.08	123-93-628-41-801000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2123-ND	5.85	50.73	409.71	123-93-640-41-801000

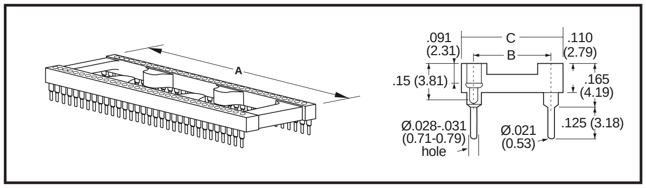
# With .300" (7.62mm) Contact Row Spacing.

Shrink Dip Sockets – Solder Tail – Open Frame

- High density Dual-in-Line Sockets for devices featuring .070" (1.78mm) lead spacing.
- Four-finger beryllium copper contacts meet high vibration and shock requirements.

Insertion Characteristics: 4-finger standard.

Plating:
Sleeve (Pin) – 200µ" Sn.;
Contact (Clip) – 30µ" Au.



No.of Pins	Dim. – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Mill-Max Part No.
16	0.572 (14.53)	0.3 (7.62)	0.39 (9.91)	ED22163-ND	1.60	11.10	89.67	384.30	640.50	117-93-316-41-005
28	0.992 (25.20)	0.4 (10.16)	0.49 (12.45)	ED22284-ND	2.71	18.77	151.62	649.80	1083.00	117-93-428-41-005
30	1.062 (26.97)	0.4 (10.16)	0.49 (12.45)	ED22304-ND	2.90	20.10	162.33	695.70	1159.50	117-93-430-41-005
48	1.692 (42.98)	0.4 (10.16)	0.49 (12.45)	ED22484-ND	4.64	32.16	259.77	1113.30	1855.50	117-93-448-41-005
20	0.712 (18.08)	0.6 (15.24)	0.69 (17.53)	ED22206-ND	1.93	13.39	108.15	463.50	772.50	117-93-620-41-005
28	0.992 (25.20)	0.6 (15.24)	0.69 (17.53)	ED22286-ND	2.71	18.77	151.62	649.80	1083.00	117-93-628-41-005
40	1.412 (35.86)	0.6 (15.24)	0.69 (17.53)	ED22406-ND	3.86	26.78	216.30	927.00	1545.00	117-93-640-41-005
42	1.482 (37.64)	0.6 (15.24)	0.69 (17.53)	ED22426-ND	4.05	28.11	227.01	972.90	1621.50	117-93-642-41-005
48	1.692 (42.98)	0.6 (15.24)	0.69 (17.53)	ED22486-ND	4.64	32.16	259.77	1113.30	1855.50	117-93-648-41-005
52	1.832 (46.53)	0.6 (15.24)	0.69 (17.53)	ED22526-ND	4.88	33.85	273.42	1171.80	1953.00	117-93-652-41-005
56	1.972 (50.09)	0.6 (15.24)	0.69 (17.53)	ED22566-ND	5.26	36.48	294.63	1262.70	2104.50	117-93-656-41-005
64	2.252 (57.20)	0.6 (15.24)	0.69 (17.53)	ED22646-ND	6.02	41.70	336.84	1443.60	2406.00	117-93-664-41-005
64	2.252 (57.20)	0.75 (19.05)	0.84 (21.34)	ED22647-ND	6.02	41.70	336.84	1443.60	2406.00	117-93-764-41-005
68	2.392 (60.76)	0.6 (15.24)	0.69 (17.53)	ED22686-ND	6.39	44.30	357.84	1533.60	2556.00	117-93-668-41-005

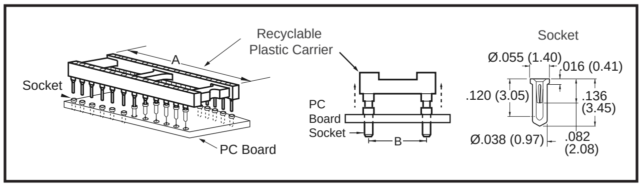
Miniature Dual-In-Line Socket Carriers

- Reusable carriers
- Pin Carrier Assemblies assure maximum ventilation and better visibility for inspection and repair.
- Easy mounting due to the ***RECYCLABLE PLASTIC CARRIER***. No solder wicking problems.

Requires .039" (.99mm) min. diameter holes in PCB.

Insertion Characteristics: 3-finger.

Plating: Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 30µ" Au.

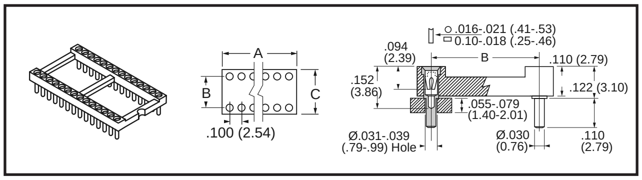


No. of Pins	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Mill-Max Part No.
8	0.4 (10.16)	0.3 (7.62)	ED6008-ND	.93	6.45	52.08	223.20	372.00	614-93-308-31-012
14	0.7 (17.78)	0.3 (7.62)	ED6014-ND	1.63	11.28	91.14	390.60	651.00	614-93-314-31-012
16	0.8 (20.32)	0.3 (7.62)	ED6016-ND	1.86	12.90	104.16	446.40	744.00	614-93-316-31-012
18	0.9 (22.86)	0.3 (7.62)	ED6018-ND	2.09	14.51	117.18	502.20	837.00	614-93-318-31-012
20	1.0 (25.40)	0.3 (7.62)	ED6020-ND	2.33	16.12	130.20	558.00	930.00	614-93-320-31-012
24	1.2 (30.48)	0.3 (7.62)	ED6024-ND	2.79	19.34	156.24	669.60	1116.00	614-93-324-31-012
28	1.4 (35.56)	0.3 (7.62)	ED6028-ND	3.26	22.57	182.28	781.20	1302.00	614-93-328-31-012
24	1.2 (30.48)	0.6 (15.24)	ED6124-ND	2.79	19.34	156.24	669.60	1116.00	614-93-624-31-012
28	1.4 (35.56)	0.6 (15.24)	ED6128-ND	3.26	22.57	182.28	781.20	1302.00	614-93-628-31-012
32	1.6 (40.64)	0.6 (15.24)	ED6132-ND	3.72	25.79	208.32	892.80	1488.00	614-93-632-31-012
40	2.0 (50.80)	0.6 (15.24)	ED6140-ND	4.65	32.24	260.40	1116.00	1860.00	614-93-640-31-012

Dual-In-Line Sockets – Low Profile Open Frame

- Dip Sockets with reduced height; only .122" (3.10mm) above PCB.
- Hi-Rel, 4-finger #30 clip.

Plating: Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 30µ" Au.

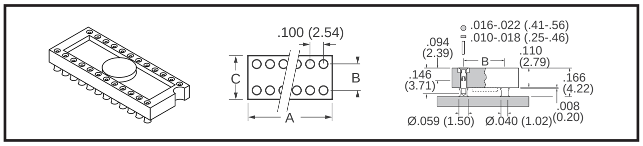


No.of Pins	Dim. – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Mill-Max Part No.
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED58083-ND	.62	5.28	43.20	159.36	268.80	115-93-308-41-001
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED58143-ND	1.05	8.86	72.45	267.26	450.80	115-93-314-41-001
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED58163-ND	1.20	10.12	82.80	305.44	515.20	115-93-316-41-001
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED58183-ND	1.35	11.39	93.15	343.62	579.60	115-93-318-41-001
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED58203-ND	1.44	12.21	99.90	368.52	621.60	115-93-320-41-001
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED58243-ND	1.73	14.66	119.93	442.39	746.20	115-93-324-41-001
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED58283-ND	2.02	17.11	139.95	516.26	870.80	115-93-328-41-001
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED58246-ND	1.73	14.66	119.93	442.39	746.20	115-93-624-41-001
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED58286-ND	2.02	17.11	139.95	516.26	870.80	115-93-628-41-001
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED58326-ND	2.31	19.53	159.75	589.30	994.00	115-93-632-41-001
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED58406-ND	2.89	24.42	199.80	737.04	1243.20	115-93-640-41-001

Dual-In-Line Sockets – Surface Mount, Stub Tail, Closed Frame

- Closed frame insulator is vision system compatible.
- High-temp Nylon 46, suitable for infra-red and vapor phase soldering.

Plating: Sleeve (Pin) – 200µ" Sn.;
Contact (Clip) – 200µ" Sn.



No.of Pins	Dim.– Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Mill-Max Part No.
Vacuum Pads Top Surface Only										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED2128-ND	.57	4.94	39.90	171.00	285.00	214-99-308-01-670800
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2129-ND	.96	8.29	66.99	287.10	478.50	214-99-314-01-670800
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2130-ND	1.10	9.49	76.65	328.50	547.50	214-99-316-01-670800
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2131-ND	1.23	10.63	85.89	368.10	613.50	214-99-318-01-670800
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2132-ND	1.32	11.44	92.40	396.00	660.00	214-99-320-01-670800
Vacuum Pads Top and Bottom										
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2133-ND	1.58	13.70	110.67	474.30	790.50	214-99-624-01-670800
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2134-ND	1.85	15.99	129.15	553.50	922.50	214-99-628-01-670800
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED2135-ND	2.11	18.30	147.84	633.60	1056.00	214-99-632-01-670800
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2136-ND	2.64	22.85	184.59	791.10	1318.50	214-99-640-01-670800

MILL-MAX® Pin Receptacles and P.C. Pins

Fig. 1

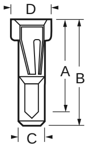


Fig. 2

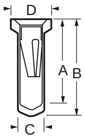


Fig. 3

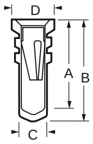


Fig. 4

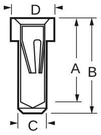


Fig. 5

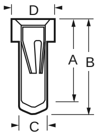


Fig. 6

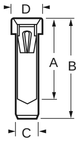


Fig. 7

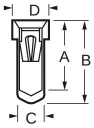


Fig. 8

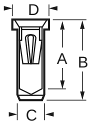


Fig. 9

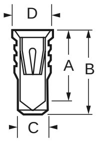


Fig. 10

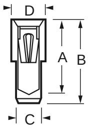


Fig. 11

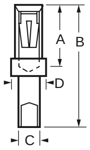


Fig. 12

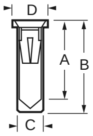


Fig. 13

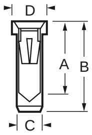


Fig. 14

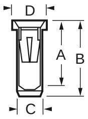


Fig. 15

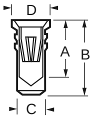


Fig. 16

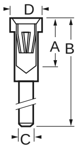


Fig. 17

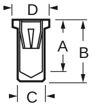


Fig. 18

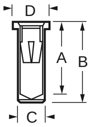


Fig. 19

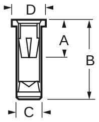


Fig. 20

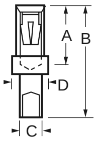


Fig. 21

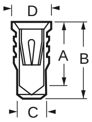


Fig. 22

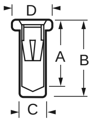
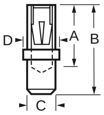


Fig. 23



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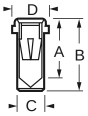


Fig. 25

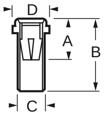


Fig. 26

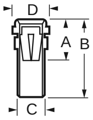


Fig. 27

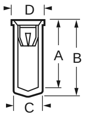


Fig. 28

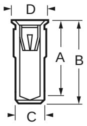


Fig. 29

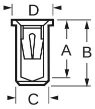


Fig. 30

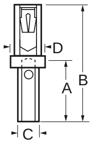


Fig. 31

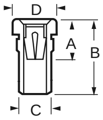


Fig. 32

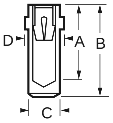


Fig. 33

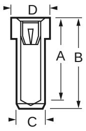


Fig. 34

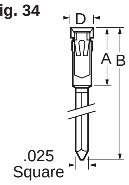


Fig. 35

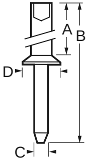


Fig. 36

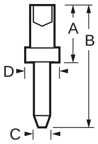


Fig. 37

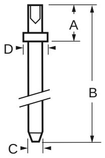


Fig. 38

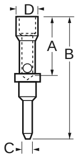


Fig. 39

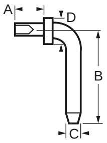


Fig.	Mounting Hole Diameter	Dimensions Inch (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	100	1,000
.015" – .021" (.38mm – .53mm) Pin Diameter									
1	.036 (.91)	.138 (3.51)	.155 (3.94)	.034 (.86)	.058 (1.47)	ED5036-ND	1.48	11.10	74.00
2	.040 (1.02)	.120 (3.05)	.136 (3.45)	.038 (.97)	.055 (1.40)	ED5037-ND	.80	6.00	40.00
2	.040 (1.02)	.150 (3.81)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED5038-ND	.81	6.09	40.60
3	.041 (1.04)	.124 (3.15)	.140 (3.56)	.038 (.97)	.055 (1.40)	ED5039-ND	1.57	11.79	78.60
3	.041 (1.04)	.154 (3.91)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED5040-ND	1.58	11.88	79.20
4	.040 (1.02)	.127 (3.23)	.146 (3.71)	.038 (.97)	.055 (1.40)	ED5046-ND	.93	6.96	46.40
5	.040 (1.02)	.140 (3.56)	.160 (4.06)	.038 (.97)	.056 (1.42)	ED5041-ND	1.77	13.26	88.40
.015" – .025" (.38mm – .64mm) Pin Diameter									
6	.051 (1.30)	.205 (5.21)	.248 (6.30)	.049 (1.24)	.063 (1.60)	ED5045-ND	2.08	15.57	103.80
7	.053 (1.35)	.135 (3.43)	.160 (4.06)	.051 (1.30)	.072 (1.83)	ED5042-ND	1.71	12.84	85.60
8	.057 (1.45)	.142 (3.61)	.161 (4.09)	.055 (1.40)	.072 (1.83)	ED5044-ND	.99	7.44	49.60
9	.057 (1.45)	.150 (3.81)	.170 (4.32)	.053 (1.35)	.072 (1.83)	ED5004-ND	1.75	13.11	87.40
10	.061 (1.55)	.150 (3.81)	.180 (4.57)	.058 (1.47)	.080 (2.03)	ED5043-ND	1.60	12.03	80.20
.022" – .032" (.56mm – .81mm) Pin Diameter									
11	.060 (1.52)	.170 (4.32)	.294 (7.47)	.058 (1.47)	.094 (2.39)	ED5015-ND	4.26	31.92	212.80
12	.063 (1.60)	.233 (5.92)	.259 (6.58)	.060 (1.52)	.077 (1.96)	ED5008-ND	1.89	14.16	94.40
13	.071 (1.80)	.210 (5.33)	.250 (6.35)	.068 (1.73)	.093 (2.36)	ED5006-ND	2.04	15.30	102.00
14	.076 (1.93)	.185 (4.70)	.206 (5.23)	.073 (1.85)	.090 (2.29)	ED5007-ND	2.00	15.03	100.20
.025" – .037" (.64mm – .94mm) Pin Diameter									
15	.061 (1.55)	.165 (4.19)	.200 (5.08)	.057 (1.45)	.078 (1.98)	ED5005-ND	2.85	21.36	142.40
16	.042 (1.07)	.180 (4.57)	.320 (8.13)	.040 (1.02)	.078 (1.98)	ED5009-ND	2.38	17.88	119.20
16	.042 (1.07)	.180 (4.57)	.397 (10.08)	.040 (1.02)	.078 (1.98)	ED5010-ND	2.82	21.12	140.80
.037" – .043" (.94mm – 1.09mm) Pin Diameter									
17	.071 (1.80)	.127 (3.23)	.150 (3.81)	.069 (1.75)	.090 (2.29)	ED5019-ND	2.24	16.80	112.00
.032" – .047" (.56mm – 1.19mm) Pin Diameter									
18	.075 (1.91)	.180 (4.57)	.206 (5.23)	.072 (1.83)	.090 (2.29)	ED5016-ND	2.04	15.30	102.00
19	.075 (1.91)	.125 (3.18)	.221 (5.61)	.072 (1.83)	.090 (2.29)	ED5018-ND	4.21	31.56	210.40
20	.067 (1.70)	.200 (5.08)	.324 (8.23)	.065 (1.65)	.125 (3.18)	ED5021-ND	4.58	34.38	229.20
21	.076 (1.93)	.180 (4.57)	.206 (5.23)	.071 (1.80)	.090 (2.29)	ED5017-ND	2.42	18.12	120.80
22	.091 (2.31)	.220 (5.59)	.253 (6.43)	.088 (2.24)	.120 (3.05)	ED5013-ND	2.96	22.17	147.80
23	.089 (2.26)	.220 (5.59)	.317 (8.05)	.085 (2.16)	.125 (3.18)	ED5014-ND	3.66	27.48	183.20
24	.087 (2.21)	.195 (4.95)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED5012-ND	2.54	19.05	127.00

Fig.	Mounting Hole Diameter	Dimensions Inch (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	100	1,000
25	.087 (2.21)	.130 (3.30)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED5011-ND	2.54	19.08	127.20
26	.089 (2.26)	.131 (3.33)	.250 (6.35)	.080 (2.03)	.110 (2.79)	ED5028-ND	3.14	23.58	157.20
.040" – .050" (1.02mm – 1.27mm) Pin Diameter									
27	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED5024-ND	2.52	18.87	125.80
28	.103 (2.62)	.260 (6.60)	.290 (7.37)	.088 (2.24)	.118 (3.00)	ED5023-ND	3.53	26.49	176.60
.048" – .064" (1.22mm – 1.63mm) Pin Diameter									
29	.102 (2.59)	.180 (4.57)	.213 (5.41)	.098 (2.49)	.120 (3.05)	ED5029-ND	3.28	24.57	163.80
30	—	.267 (6.78)	.530 (13.46)	.103 (2.62)	.141 (3.58)	ED5032-ND	7.31	54.81	365.40
31	.108 (2.74)	.134 (3.40)	.250 (6.35)	.102 (2.59)	.136 (3.45)	ED5031-ND	4.03	30.24	201.60
.065" – .082" (1.65mm – 2.08mm) Pin Diameter									
32	.144 (3.66)	.340 (8.64)	.412 (10.46)	.142 (3.61)	.188 (4.78)	ED5035-ND	5.52	41.40	276.00
.084" – .102" (2.13mm – 2.59mm) Pin Diameter									
33	.144 (3.66)	.415 (10.54)	.465 (11.81)	.142 (3.61)	.188 (4.78)	ED5034-ND	6.68	50.10	334.00
.015" – .025" (.38mm – .64mm) Pin Diameter									
34	.055 (1.40)	.200 (5.08)	.700 (17.78)	—	.072 (1.83)	ED5001-ND	1.41	10.59	70.60
34	.055 (1.40)	.200 (5.08)	.560 (14.22)	—	.072 (1.83)	ED5002-ND	1.26	9.42	62.80
34	.055 (1.40)	.200 (5.08)	.460 (11.68)	—	.072 (1.83)	ED5003-ND	1.62	12.12	80.80
.025" (.64mm) Pin Diameter									
35	.035 (.89)	.047 (1.19)	.260 (6.60)	.025 (.64)	.062 (1.57)	ED5055-ND	.84	6.30	42.00
35	.035 (.89)	.078 (1.98)	.291 (7.39)	.025 (.64)	.062 (1.57)	ED5056-ND	.66	4.98	33.20
36	.043 (1.09)	.076 (1.93)	.201 (5.11)	.025 (.64)	.062 (1.57)	ED5053-ND	.83	6.21	41.40
36	.043 (1.09)	.107 (2.72)	.232 (5.89)	.025 (.64)	.062 (1.57)	ED5054-ND	.67	5.04	33.60
.040" (1.02mm) Pin Diameter									
37	.043 (1.09)	.047 (1.19)	.221 (5.61)	.040 (1.02)	.070 (1.78)	ED5047-ND	.72	5.40	36.00
37	.043 (1.09)	.102 (2.59)	.252 (6.40)	.040 (1.02)	.070 (1.78)	ED5048-ND	.75	5.64	37.60
37	.043 (1.09)	.102 (2.59)	.290 (7.37)	.040 (1.02)	.070 (1.78)	ED5050-ND	.80	6.03	40.20
37	.043 (1.09)	.102 (2.59)	.402 (10.21)	.040 (1.02)	.070 (1.78)	ED5052-ND	.95	7.14	47.60
38	—	.282 (7.16)	.588 (14.94)	.040 (1.02)	.105 (2.67)	ED5061-ND	4.33	32.49	216.60
.040" (1.02mm) Pin Diameter									
39	.043 (1.09)	.082 (2.08)	.257 (6.53)	.040 (1.02)	.070 (1.78)	ED5058-ND	2.65	19.86	132.40

In-Line Sockets and Headers - Solder Tail and Solderless

Fig. 1

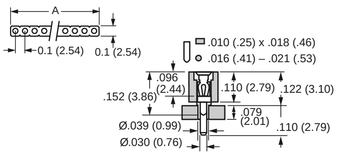


Fig. 2

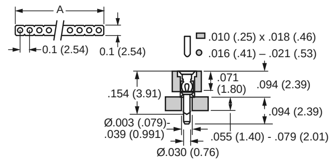


Fig. 3

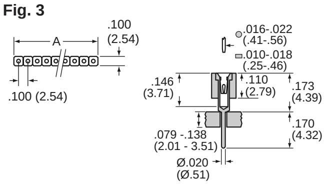


Fig. 4

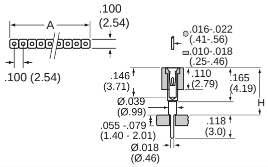
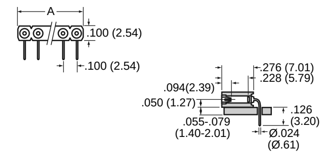


Fig. 5



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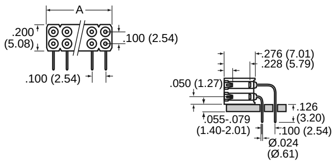


Fig. 7

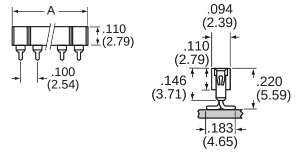


Fig. 8

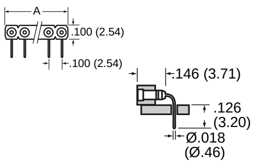


Fig. 9

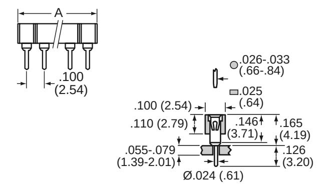
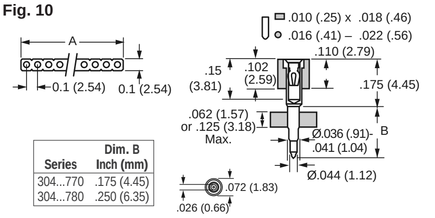


Fig. 10



Series	Dim. B Inch (mm)
304...770	.175 (4.45)
304...780	.250 (6.35)

Fig. 11

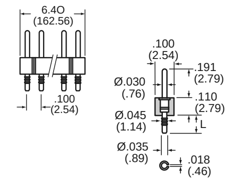


Fig. 12

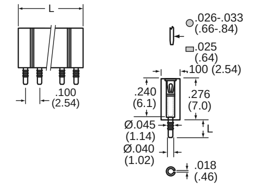


Fig. 13

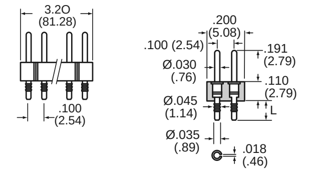


Fig. 14

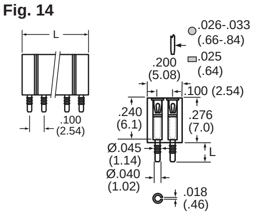


Fig. 15

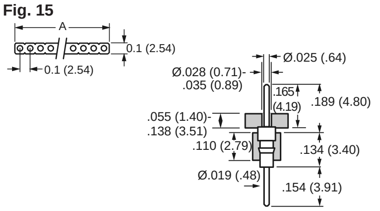


Fig. 16

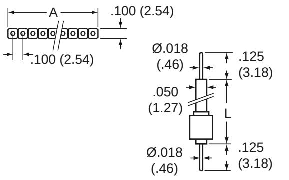


Fig. 17

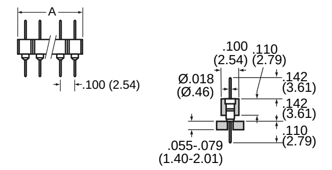


Fig. 18

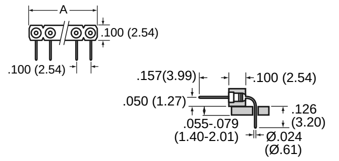


Fig. 19

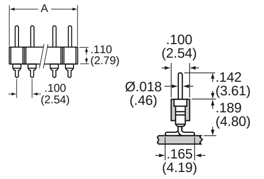


Fig. 20

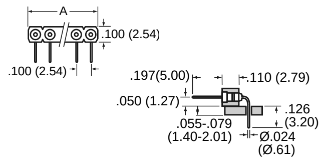


Fig.	Description	No. of Pins	Dim. A Inch (mm)	Plating Sleeve/Pin	Plating Contact/Clip	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mill-Max Part No.
	Solder Tail Socket									
1	Very Low Profile, Series 315...01	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED7864-ND	4.16	3.52	2.88	315-93-164-41-001000
2	Ultra Low Profile, Series 315...03	64	6.4" (162.56)	200µ" Au	30µ" Au	ED7964-ND	4.06	3.44	2.81	315-93-164-41-003000
3	Single Row, Long Solder Tail, Series 311…01	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED1064-ND	3.16	2.74	2.22	311-93-164-41-001000
4	Single Row, Series 316…01 H=.594	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED1164-ND	8.48	7.35	5.94	316-93-164-41-001000
4	Single Row, Series 316…03 H=.315	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED1264-ND	7.33	6.36	5.14	316-93-164-41-003000
4	Single Row, Series 316…06 H=.236	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED1364-ND	6.92	6.01	4.85	316-93-164-41-006000
4	Single Row, Series 316…07 H=.402	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED1464-ND	7.66	6.64	5.37	316-93-164-41-007000
4	Single Row, Series 316…08 H=.472	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED15064-ND	8.01	6.94	5.61	316-93-164-41-008000
5	Single Row, Right Angle .030" dia. Pins	50	5.0" (127.00)	200µ" Sn	30µ" Au	ED1450-ND	5.89	5.11	4.13	801-93-050-20-001000
6	Double Row, Right Angle .030" dia. Pins	2 x 50	5.0" (127.00)	200µ" Sn	30µ" Au	ED14100-ND	14.31	12.41	10.02	803-93-100-20-001000
7	Single Row, .220" Surface Mount	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED23064-ND	5.84	5.06	4.09	310-93-164-41-105000
8	Single Row, Series 399…03 Right Angle	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED22064-ND	5.63	4.88	3.94	399-93-164-10-003000
9	Single Row, Low Profile .030" dia. Pins	64	6.4" (162.56)	200µ" Sn	30µ" Au	ED2764-ND	6.20	5.38	4.35	801-93-064-10-002000
	Solderless Press-Fit Header/Socket									
10	Solderless Press-Fit Socket, Series 304...770	64	6.4" (162.56)	10µ" Au	30µ" Au	ED8064-ND	6.53	5.53	4.53	304-13-164-41-770000
10	Solderless Press-Fit Socket, Series 304...780	64	6.4" (162.56)	10µ" Au	30µ" Au	ED8164-ND	7.05	5.97	4.89	304-13-164-41-780000
11	Single Row Header Compliant Tail L=.104	64	6.4" (162.56)	10µ" Au	—	ED2864-ND	9.04	7.84	6.33	800-10-064-61-001000
11	Single Row Header Compliant Tail L=.143	64	6.4" (162.56)	10µ" Au	—	ED2964-ND	9.17	7.95	6.42	800-10-064-62-001000
12	Single Row Socket Compliant Tail L=.104	50	5.0" (127.00)	200µ" Sn	30µ" Au	ED15050-ND	8.76	7.59	6.13	801-93-050-61-001000
12	Single Row Socket Compliant Tail L=.143	50	5.0" (127.00)	200µ" Sn	30µ" Au	ED1650-ND	8.79	7.62	6.16	801-93-050-62-001000
13	Double Row Header Compliant Tail L=.104	2 x 32	3.2" (81.28)	10µ" Au	—	ED3064-ND	9.04	7.84	6.33	802-10-064-61-001000
13	Double Row Header Compliant Tail L=.143	2 x 32	3.2" (81.28)	10µ" Au	—	ED3164-ND	9.17	7.95	6.42	802-10-064-62-001000
14	Double Row Socket Compliant Tail L=.104	2 x 50	5.0" (127.00)	200µ" Sn	30µ" Au	ED15100-ND	17.34	15.03	12.14	803-93-100-61-001000
14	Double Row Socket Compliant Tail L=.143	2 x 50	5.0" (127.00)	200µ" Sn	30µ" Au	ED16100-ND	17.40	15.08	12.18	803-93-100-62-001000
	Solder Tail Header Strip									
15	Pin/Solder Tail Header Strip, Series 350	64	6.4" (162.56)	10µ" Au	—	ED7764-ND	6.12	5.18	4.24	350-10-164-00-001000
16	Single Row, .018/.018 Pin L=.210	64	6.4" (162.56)	10µ" Au	—	ED16064-ND	5.99	5.20	4.20	342-10-164-00-591000
16	Single Row, .018/.018 Pin L=.335	64	6.4" (162.56)	10µ" Au	—	ED17064-ND	6.42	5.57	4.50	342-10-164-00-592000
16	Single Row, .018/.018 Pin L=.585	64	6.4" (162.56)	10µ" Au	—	ED18064-ND	8.57	7.43	6.00	342-10-164-00-593000
16	Single Row, .018/.018 Pin L=.835	64	6.4" (162.56)	10µ" Au	—	ED19064-ND	11.23	9.74	7.87	342-10-164-00-594000
17	Single Row, Series 350…06 Straight	64	6.4" (162.56)	10µ" Au	—	ED2064-ND	5.76	5.00	4.04	350-10-164-00-006000

(Continued)

In-Line Sockets and Headers - Solder Tail and Solderless *(Cont.)*

Fig. 21

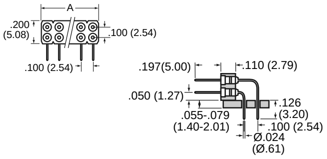


Fig. 22

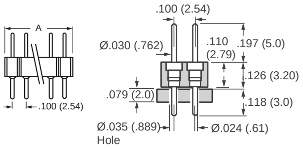


Fig. 23

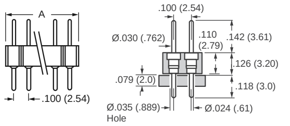


Fig. 24

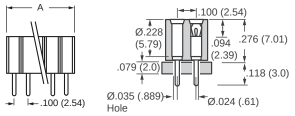


Fig. 25

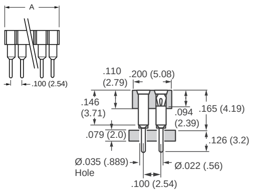


Fig. 26

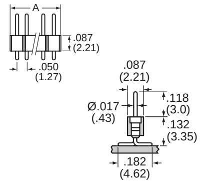


Fig. 27

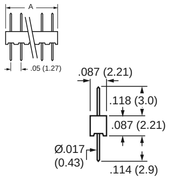


Fig. 28

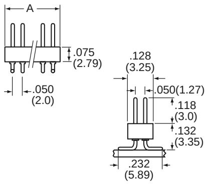


Fig. 29

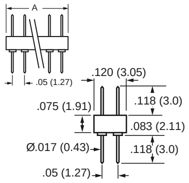


Fig. 30

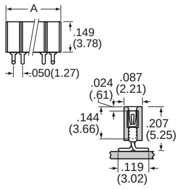


Fig. 31

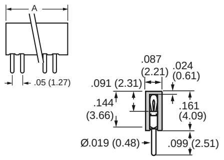


Fig. 32

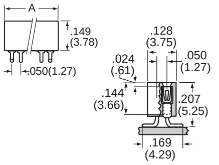


Fig. 33

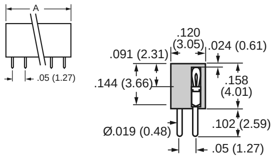


Fig. 34

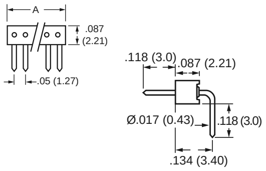


Fig. 35

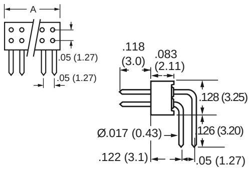


Fig. 36

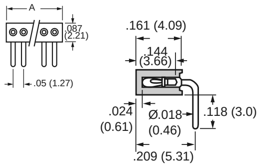


Fig. 37

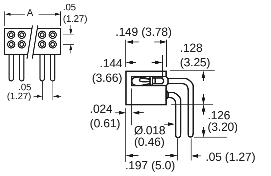


Fig. 38

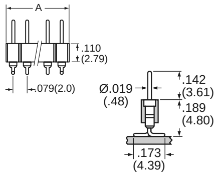


Fig. 39

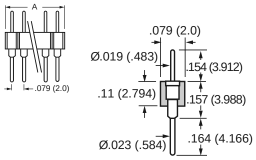


Fig. 40

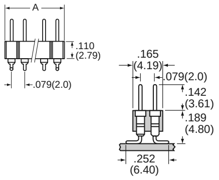


Fig. 41

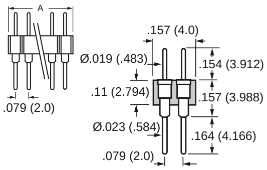


Fig. 42

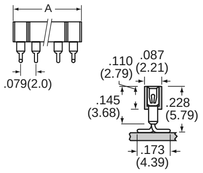


Fig. 43

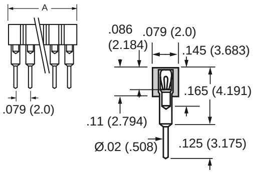


Fig. 44

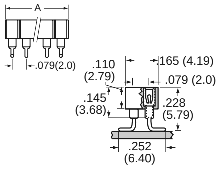


Fig. 45

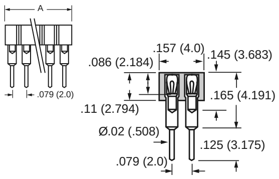


Fig.	Description	No. of Pins	Dim. A Inch (mm)	Plating		Digi-Key Part No.	Price Each			Mill-Max Part No.
				Sleeve/Pin	Contact/Clip		1	10	100	
Solder Tail Header Strip (Cont.)										
18	Single Row, Series 399...09 Right/Angle	64	6.4” (162.56)	10µ” Au	—	ED2164-ND	6.59	5.72	4.62	399-10-164-10-009000
19	Single Row, .189” Surface Mount Header	64	6.4” (162.56)	10µ” Au	—	ED24064-ND	8.38	7.27	5.87	350-10-164-00-106000
20	Single Row, Right Angle .030” Diameter Pins	64	6.4” (162.56)	10µ” Au	—	ED2564-ND	6.80	5.90	4.77	800-10-064-20-001000
21	Double Row, Right Angle .030” Diameter Pins	2 x 32	3.2” (81.28)	10µ” Au	—	ED2664-ND	7.22	6.26	5.06	802-10-064-20-001000
Interconnects, .100” (2.54mm) Grid										
22	Double Row, Pin Header, Straight Solder Tail	2 x 32	3.2” (81.28)	10µ” Au	—	ED9464-ND	6.85	5.80	4.75	802-10-064-10-001000
23	Double Row, Low Profile Pin Header	2 x 32	3.2” (81.28)	10µ” Au	—	ED9564-ND	6.72	5.69	4.66	802-10-064-10-002000
24	Double Row, Socket, Straight Solder Tail	2 x 36	3.6” (91.44)	200µ” Sn	30µ” Au	ED9672-ND	8.62	7.29	5.97	803-93-072-10-001000
25	Double Row, Low Profile Socket	2 x 36	3.6” (91.44)	200µ” Sn	30µ” Au	ED9772-ND	8.09	6.85	5.60	803-93-072-10-002000
Interconnects, .050” (1.27mm) Grid										
26	Single Row, .132” (3.35mm) SMT Header	50	2.5” (63.50)	10µ” Au	—	ED1050-ND	9.65	8.37	6.76	850-10-050-30-001000
27	Single Row, .087” (2.21mm) Profile Pin Header	50	2.5” (63.50)	10µ” Au	—	ED8250-ND	7.10	6.01	4.92	850-10-050-10-001000
28	Double Row, .132” (3.35mm) SMT Header	2 x 50	2.5” (63.50)	10µ” Au	—	ED10100-ND	17.61	15.27	12.33	852-10-100-30-001000
29	Double Row, .075” (1.91mm) Profile Pin Header	2 x 50	2.5” (63.50)	10µ” Au	—	ED83100-ND	14.20	12.02	9.84	852-10-100-10-001000
30	Single Row, .207” (5.26mm) SMT Socket	50	2.5” (63.50)	200µ” Sn	30µ” Au	ED1150-ND	13.12	11.37	9.19	851-93-050-30-001000
31	Single Row, .161” (4.09mm) Profile Socket	50	2.5” (63.50)	200µ” Sn	30µ” Au	ED8450-ND	10.82	9.16	7.50	851-93-050-10-001000
32	Double Row, .207” (5.26mm) SMT Socket	2 x 50	2.5” (63.50)	200µ” Sn	30µ” Au	ED11100-ND	24.48	21.22	17.14	853-93-100-30-001000
33	Double Row, .161” (4.09mm) Profile Socket	2 x 50	2.5” (63.50)	200µ” Sn	30µ” Au	ED85100-ND	21.65	18.32	14.99	853-93-100-10-001000
Right Angle Interconnects, .050” (1.27mm) Grid										
34	Single Row, Pin Header, Rt. Angle Solder Tail	50	2.5” (63.50)	10µ” Au	—	ED8650-ND	9.64	8.16	6.68	850-10-050-20-001000
35	Double Row, Pin Header, Rt. Angle Solder Tail	2 x 50	2.5” (63.50)	10µ” Au	—	ED87100-ND	19.44	16.45	13.46	852-10-100-20-001000
36	Single Row, Socket, Rt. Angle Solder Tail	50	2.5” (63.50)	200µ” Sn	30µ” Au	ED8850-ND	13.47	11.40	9.33	851-93-050-20-001000
37	Double Row, Socket, Rt. Angle Solder Tail	2 x 50	2.5” (63.50)	200µ” Sn	30µ” Au	ED89100-ND	27.04	22.88	18.72	853-93-100-20-001000
Interconnects, 2mm Grid										
38	Single Row, .189” (4.80mm) SMT Header	50	3.94” (100.08)	10µ” Au	—	ED1250-ND	8.79	7.62	6.16	830-10-050-30-001000
39	Single Row Pin Header	50	3.94” (100.08)	10µ” Au	—	ED9050-ND	6.31	5.34	4.37	830-10-050-10-001000
40	Double Row, .189” (4.80mm) SMT Header	2 x 50	3.94” (100.08)	10µ” Au	—	ED12100-ND	17.40	15.08	12.18	832-10-100-30-001000
41	Double Row Pin Header	2 x 50	3.94” (100.08)	10µ” Au	—	ED91100-ND	12.61	10.67	8.73	832-10-100-10-001000
42	Single Row, .228” (5.79mm) SMT Socket	50	3.94” (100.08)	200µ” Sn	30µ” Au	ED1350-ND	6.82	5.91	4.78	831-93-050-30-001000
43	Single Row Socket	50	3.94” (100.08)	200µ” Sn	30µ” Au	ED9250-ND	4.06	3.44	2.82	831-93-050-10-001000
44	Double Row, .228” (5.79mm) SMT Socket	2 x 50	3.94” (100.08)	200µ” Sn	30µ” Au	ED13100-ND	13.50	11.70	9.45	833-93-100-30-001000
45	Double Row Socket	2 x 50	3.94” (100.08)	200µ” Sn	30µ” Au	ED93100-ND	8.13	6.88	5.63	833-93-100-10-001000

Single In-Line Strip Sockets — Solder Tail and Solderless

MATERIALS:
• **Insulator Body:** Glass filled thermoplastic polyester, self-extinguishing rated UL 94V-O; color black; resistant against detergents, mineral acids, solvents, greases and oils (short time) • **Receptacle (sleeve):** Screw machined brass, plated 200µ" tin-lead • **Pin:** Screw machined brass with 10µ" gold plating • **Contact:** Stamped beryllium-copper, plated 30µ" gold • **Mechanical Life:** 100 cycles min. **ELECTRICAL DATA:** • **Rated Current:** 1A (Series 7000, 7400); 3A (7100, 7200, 7500, 7600) • **Rated Voltage:** 100 VRMS/150 VDC • **Contact Resistance:** 10mΩ max. • **Insulation Resistance:** 10,000MΩ min. • **Dielectric Strength:** 1000 VRMS min. • **Max. Capacitance:** .8 pF (Series 7000, 7400); 1pF (Series 7100, 7200, 7500, 7600) **ENVIRONMENTAL DATA:** • **Operating Temp. Range:** -55°C to +125°C • **Vibration:** 10-2000 Hz, 15g. • **Shock (no elect. discontinuity greater than 1µs):** 150g. • **Solderability:** IEC 68-2-20 Ta. • **Resistance to Soldering Heat:** IEC 68-2-20, 260°C, 5s • **Resistance to Atmosphere Corrosion:** IEC 68-2-42 & 43.

Fig. 1 — Standard Solder Tail

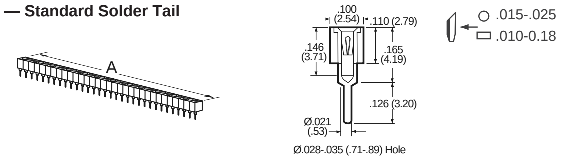


Fig. 2 — Low Profile Socket

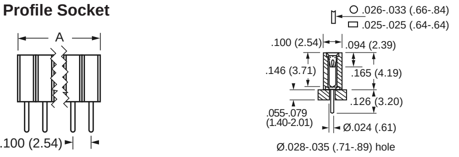


Fig. 3 — Socket Strip

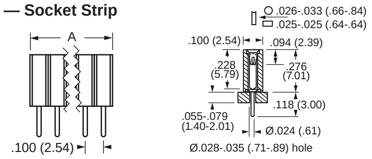


Fig. 4 — Low Profile Pin Header

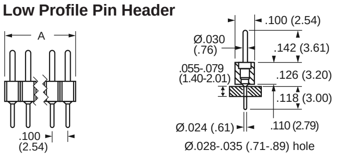


Fig. 5 — Pin Header Strip

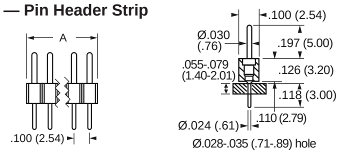


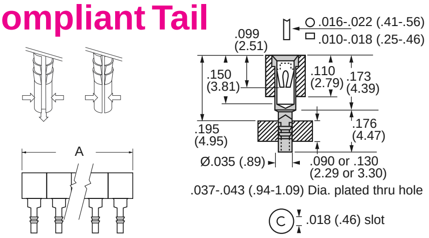
Fig.	No. of Pins	Dim. A Inch (mm)	Plating Sleeve/Pin	Clip	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.
Strip Sockets Solder Tail — 7000 Series									
1	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED7064-ND	2.89	24.48	200.25	310-93-164-41-001
Single Row Socket, Straight Solder Tail — Series 7400									
1	64	6.4 (162.56)	10µ" Au	30µ" Au	ED7464-ND	4.10	34.68	283.73	310-13-164-41-001000
Single Row, Low Profile Socket — Series 7600									
2	36	3.6 (91.44)	200µ" Sn	30µ" Au	ED7636-ND	4.14	35.04	286.65	801-93-036-10-012000
Single Row Pin Socket, Straight Solder Tail — 7100 Series									
3	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED7150-ND	5.98	50.63	414.23	801-93-050-10-001
Single Row, Low Profile Pin Header — Series 7500									
4	64	6.4 (162.56)	10µ" Au	—	ED7564-ND	6.72	56.84	465.08	800-10-064-10-002000
Single Row Pin Header, Straight Solder Tail — 7200 Series									
5	64	6.4 (162.56)	10µ" Au	—	ED7264-ND	6.85	57.97	474.30	800-10-064-10-001

Digi-Key Part No.	Base Price	Pin Adder
7000 Series		
ED70XX-ND	.33	.04
7400 Series		
ED74XX-ND	.26	.06
7600 Series		
ED76XX-ND	.54	.10
7100 Series		
ED71XX-ND	.47	.11
7500 Series		
ED75XX-ND	.32	.10
7200 Series		
ED72XX-ND	.45	.10

Single In-Line Strip Sockets — Solderless Press Fit, Compliant Tail

FEATURES:
Unique compliant tail pins conforms to .040" ±.003" (1.02mm ±08mm) finished hole diameter without stressing inner layers.

APPLICATION OF COMPLIANT TAIL PINS:
Mill-Max's patented (Patent No. 4,799,904) compliant tail features precision machined pins that are hollow and slotted to conform to a .040" ±.003" (1.02mm ±08mm) diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.



No. of Pins	Dim. A Inch (mm)	Plating Sleeve/Pin	Clip	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.
64	6.4" (162.56)	200µ" Sn	30µ" Au	ED7364-ND	7.35	62.15	508.50	346-93-164-41-013

Digi-Key Part No.	Base Price	Pin Adder
ED73XX-ND	.95	.10

HOW TO ORDER — 4 EASY STEPS

How do I order an ED7064 header with 64 pins?
Call Digi-Key where you'll happily receive the price.
or Determine the cost yourself

ED ☐ ☐ ☐ ☐ - ND
Series — Number of Desired Pins

How to Order — In 4 Easy Steps	*Our Example*	*Your Digi-Key Part Number*
Step 1. Select needed "Digi-Key Part Number" and number of pins desired	ED7064-ND	ED __ __ __ __ - ND
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart)...	.33	______
Step 3. Multiply the number of pins you desire by "Pin Adder" of your selected Part Number (refer to chart)..	64 x .04 = 2.56	____ x ____ = ______
Step 4. Add Step 2 & Step 3 together for Final Cost!	Your Cost = $2.89	Your Cost = $______

NOTE: For quantities of 10 or more, call 1-800-DIGI-KEY.

Surface Mount Connectors — Modular Spring Loaded Contacts

Fig. 1

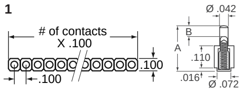
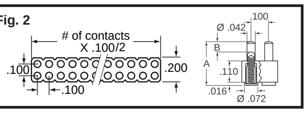


Fig. 2



- Modular contacts for use on .100" grid, available in seven heights from .177" to .295", supplied in single and double row contact strips.
- Precision machined piston/base and gold plated components assure a 40,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes
- A typical application would be as the base unit (battery/charger) interface for portable equipment such as mobile phones/radios, bar code readers, medical and test instruments.

Fig.	Contacts	Initial Height Dim. A Inch (mm)	Stroke Dim. B Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Single Row - Series 811								
1	64	.177 (4.50) .197 (5.00) .217 (5.51) .295 (7.49)	.045 (1.14) .055 (1.40) .055 (1.40) .055 (1.40)	ED9773-ND ED9774-ND ED9775-ND ED9776-ND	29.95 29.95 29.95 29.95	25.96 25.96 25.96 25.96	20.97 20.97 20.97 20.97	811-22-064-30-001101 811-22-064-30-002101 811-22-064-30-003101 811-22-064-30-007101
Double Row - Series 813								
2	72	.177 (4.50) .197 (5.00) .217 (5.51) .295 (7.49)	.045 (1.14) .055 (1.40) .055 (1.40) .055 (1.40)	ED9777-ND ED9778-ND ED9779-ND ED9780-ND	33.70 33.70 33.70 33.70	29.21 29.21 29.21 29.21	23.59 23.59 23.59 23.59	813-22-072-30-001101 813-22-072-30-002101 813-22-072-30-003101 813-22-072-30-007101

I.C. Sockets

Dual Leaf Tin Plated Wire Wrap

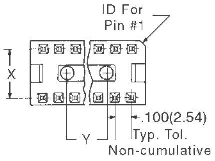
Contacts: Phosphor bronze CA510.
Contact Finish: Tin plating 200µ" minimum.

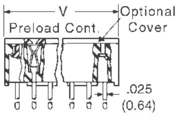
No. of Pins	Digi-Key Part No.	Pricing 1	25	100	500	1,000	2,500
8	C8108-ND	2.12	44.83	173.26	713.41	1324.90	1222.99/M
14	C8114-ND	3.02	63.80	246.60	1015.41	1885.75	1740.70/M
16	C8116-ND	3.31	70.02	270.62	1114.32	2069.45	1910.27/M
18	C8118-ND	3.44	72.77	281.25	1158.09	2150.73	1985.30/M
20	C8120-ND	4.24	89.71	346.73	1427.70	2651.44	2447.48/M
24	C8124-ND	5.35	113.14	437.29	1800.59	3343.96	3086.74/M
28	C8128-ND	6.10	129.09	498.94	2054.45	3815.40	3521.91/M
40	C8140-ND	8.74	184.86	714.50	2942.05	5463.81	5043.52/M

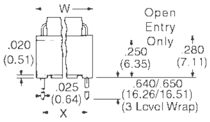
Dual Leaf Gold Inlay Wire Wrap

Contacts: Copper alloy CA725.
Contact Finish: Gold inlay 50µ" over 50µ" nickel interliner.

No. of Pins	Digi-Key Part No.	Pricing 1	25	100	500	1,000	2,500
8	C9108-ND	2.49	52.58	203.23	836.83	1554.12	1434.58/M
14	C9114-ND	4.11	86.96	336.10	1383.93	2570.15	2372.45/M
16	C9116-ND	4.71	99.66	385.20	1586.13	2945.68	2719.09/M
18	C9118-ND	5.19	109.89	424.74	1748.95	3248.05	2998.20/M
20	C9120-ND	5.77	122.10	471.94	1943.28	3608.94	3331.34/M
22	C9122-ND	6.26	132.33	511.48	2106.09	3911.31	3610.45/M
24	C9124-ND	6.91	146.25	565.26	2327.56	4322.60	3990.10/M
28	C9128-ND	8.10	171.44	662.63	2728.47	5067.15	4677.38/M
40	C9140-ND	11.21	237.22	916.88	3775.38	7011.43	6472.09/M







Pins	"V"±.25 Inch (mm)	"W"Max. Inch (mm)	"X"±.13 Inch (mm)	"Y"±.25 Inch (mm)
8	.465 (11.81)	.400 (10.16)	.300 (7.62)	n/a
14	.765 (19.43)	.400 (10.16)	.300 (7.62)	.300 (7.62)
16	.865 (21.97)	.400 (10.16)	.300 (7.62)	.400 (10.16)
18	.965 (24.51)	.400 (10.16)	.300 (7.62)	.400 (10.16)
20	1.065 (27.05)	.400 (10.16)	.300 (7.62)	.400 (10.16)
22	1.180 (29.97)	.500 (12.70)	.400 (10.16)	.500 (12.70)
24	1.280 (32.51)	.700 (17.78)	.600 (15.24)	.500 (12.70)
28	1.480 (37.59)	.700 (17.78)	.600 (15.24)	.500 (12.70)
40	2.080 (52.83)	.700 (17.78)	.600 (15.24)	.800 (20.32)

FEATURES:

- Universal mounting and packaging capabilities.
- Contacts accommodate .015" (.38mm) through .021" (.53mm) rectangular or round dual-in-line leads.
- Wire wrap posts held to true position of .015" (.38mm) providing a true position of .020" (.51mm) on boards for efficient automatic wire wrapping.

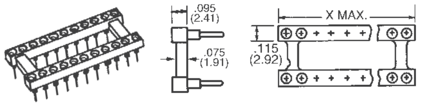
SPECIFICATIONS:

Material: Body, 94V-0 glass filled polyester.

Notes: Sockets meet requirements of Texas Instruments test specification TS-0003 and test report TR-0001. Contacts are replaceable and have redundant spring elements. Cover is removable. Contact is designed and oriented in the plastic body to generate maximum possible contact. Socket is designed to achieve maximum density on boards. Closed entry cover is provided to facilitate automatic insertion and protect IC leads against damage. Accommodates standard (C) leads up to .001" x .018" (.03mm x .46mm). Sockets are capable of being automatically or simultaneously wire wrapped.

Open Frame Machine Pin Collet Sockets

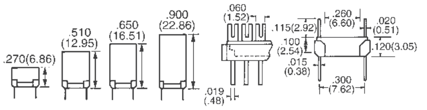
Specifications: Contacts: Collet – beryllium copper with 10µ" gold plating. Body – brass. Collet accepts: .014-.022 (.38-.56) dia. round leads. Platform: Glass filled thermoplastic UL94V-O. • Compatible with automatic insertion equipment. Collet is 10µ" gold plated.



Pin Centers	No. of Pins	Dim "X" Inch (mm)	Digi-Key Part No.	Pricing 1	25	100
.300 (7.62)	8	.400 (10.16)	A400-ND	.44	10.20	23.13
.300 (7.62)	14	.700 (17.78)	A401-ND	.75	17.33	39.29
.300 (7.62)	16	.800 (20.32)	A402AE-ND	.85	19.65	44.56
.300 (7.62)	18	.900 (22.86)	A403AE-ND	1.06	24.38	55.27
.300 (7.62)	20	1.000 (25.40)	A404AE-ND	.96	22.05	50.00
.300 (7.62)	24	1.200 (30.48)	A405-ND	1.19	27.53	62.41
.400 (10.16)	22	1.100 (27.97)	A406-ND	1.40	28.63	86.56
.400 (10.16)	24	1.200 (30.48)	A407-ND	1.59	32.51	98.30
.600 (15.24)	24	1.200 (30.48)	A408-ND	1.17	26.46	64.29
.600 (15.24)	28	1.400 (35.56)	A409-ND	1.40	31.57	76.70
.600 (15.24)	32	1.600 (40.64)	A410-ND	1.59	35.98	87.41
.600 (15.24)	40	2.000 (50.80)	A411-ND	1.85	41.86	101.70
.600 (15.24)	48	2.400 (60.96)	A412-ND	2.41	54.39	132.14
.900 (22.86)	50	2.500 (63.50)	A413-ND	3.18	65.08	196.77
.900 (22.86)	64	3.200 (81.28)	A414-ND	4.06	83.03	251.02

DIP Headers and Covers

Order Headers & Covers Separately

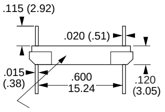


No. of Pins	DIP Header Number	Pricing 1	25	100	Cover Selection Guide – In. (mm) .27" (6.86) Cover	.51" (12.95) Cover	.65" (16.51) Cover	.90" (22.86) Cover
8	A101-ND	1.17	25.62	82.99	A105-ND	—	—	—
14	A102-ND	1.65	36.12	117.01	A106-ND	A107-ND	A108-ND	A109-ND
16	A103-ND	1.80	39.38	127.55	A110-ND	A111-ND	A112-ND	A113-ND
18	A133-ND	2.01	43.94	142.35	A137-ND	—	—	—
20	A104-ND	2.15	46.94	152.04	A114-ND	—	—	—
24*	A134-ND	2.64	57.70	186.90	A138-ND	A139-ND	—	—
28*	A135-ND	3.07	67.15	217.52	A140-ND	—	—	—
40*	A136-ND	4.07	88.99	288.27	A142-ND	—	—	—

Cover	Pricing 1	25	100
A105-ND, A106-ND	.52	10.59	31.26
A107-ND-A111-ND	.56	11.52	33.99
A112-ND, A113-ND	.61	12.49	36.86
A114-ND	.65	13.37	39.45
A137-ND	.65	13.37	39.45
A138-ND	.72	15.11	43.41
A139-ND	.85	17.96	51.60
A140-ND	.94	19.86	57.06
A142-ND	1.03	21.71	62.38

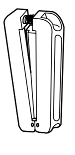
* .600 Spacing

45° pin 1 identification



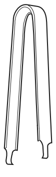
Depth of Bathtub: .100 (2.54)
Width of Bathtub: .500 (12.70)

IC Pin Straightener



A998-ND
$32.50/1
$710.89/25

Dip Extractor



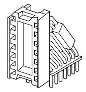
A999-ND
$5.08/1
$111.08/25

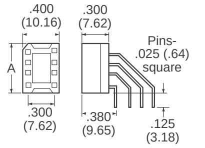
A998-ND
Anti-Static IC Pin Straightener:
Straightens IC legs with one squeeze. Put .300" (7.62mm) ICs in one side of tool, and .600" (15.24mm) in other side of tool. This brings leads into tolerance .320" (8.13mm) or .620" (15.75mm).

Note: This tool does not straighten IC legs that are bent to such an extent that the pin-to-pin spacing is not .100" (2.54mm).

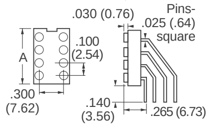
A999-ND Dip Extractor:
An extremely handy, low cost tool for removing ICs from dip sockets.

Vertisockets
Vertical Mount





A117-ND – A121-ND



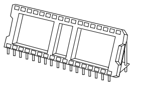
A122-ND – A125-ND

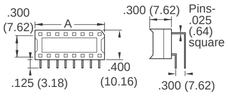
Features: • Restricted entry for contact protection • Maximum electrical contact • Accepts standard LEDs and Incandescent displays as well as .5" (12.70mm) and .6" (15.24mm) high large displays.

Specifications: • **Contacts:** Grade A spring tempered phosphor bronze • **Plating:** 10µ gold (per MIL-G-45204) over 50µ nickel (per QQN-290), 100µ tin plating (per MIL-T-10727) over 50µ nickel (per QQN-290) • **Socket:** Glass filled thermoplastic.

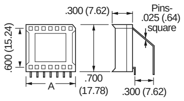
No. of Pins	Pin Centers Inch (mm)	Description	Dimension Inch (mm) A	Digi-Key Part No.	Pricing 1	25
8	.300 (7.62)	Gold Plated	.45 (11.43)	A117-ND	4.40	96.86
14	.300 (7.62)	Gold Plated	.75 (19.05)	A118-ND	5.21	114.68
16	.300 (7.62)	Gold Plated	.85 (21.59)	A119-ND	6.78	149.22
8	.600 (15.24)	Gold Plated	—	A466-ND	5.51	115.66
14	.300 (7.62)	Tin Plated	.75 (19.05)	A120-ND	3.89	85.53
16	.300 (7.62)	Tin Plated	.85 (21.59)	A121-ND	5.28	116.11
10	.300 (7.62)	Collet Contacts	.495 (12.57)	A122-ND	6.01	132.22
14	.300 (7.62)	Collet Contacts	.695 (17.65)	A124-ND	7.48	164.51
16	.300 (7.62)	Collet Contacts	.795 (20.19)	A125-ND	8.28	182.05
8	.600 (15.24)	Gold Plated	—	A464-ND	4.35	91.35
10	.200 (5.08)	Gold Plated	—	A465-ND	5.21	109.46

Vertisockets
Horizontal Mount





A126-ND—A129-ND



A130-ND—A132-ND

Features:

• Restricted entry for contact protection. • Maximum electrical contact. • Accepts standard LEDs and Incandescent displays as well as .5" (12.70mm) and .6" (5.24mm) high large displays.

Specifications:

• **Contacts:** Grade A spring tempered phosphor bronze. • **Plating:** 10µ gold (per MIL-G-45204) over 50µ nickel (per QQN-290), 100µ tin plating (per MIL-T-10727) over 50µ nickel (per QQN-290). • **Socket:** Glass filled thermoplastic.

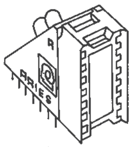
No. of Pins	Pin Centers Inch (mm)	Dimensions Inch (mm) A	Digi-Key Part No.	Pricing 1	25	100
8	.300 (7.62)	.45 (11.43)	A126-ND	3.62	79.59	246.09
14	.300 (7.62)	.75 (19.05)	A127-ND	4.43	97.41	301.19
16	.300 (7.62)	.85 (21.59)	A128-ND	4.81	105.88	327.38
20	.300 (7.62)	1.05 (26.67)	A129-ND	5.92	130.24	402.72
24	.600 (15.24)	1.25 (31.75)	A130-ND	9.11	200.48	619.90
28	.600 (15.24)	1.45 (36.83)	A131-ND	10.22	224.79	695.07
40	.600 (15.24)	2.05 (52.07)	A132-ND	13.30	292.49	904.42

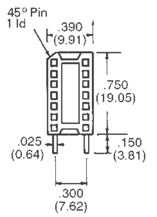
Vertical Socket

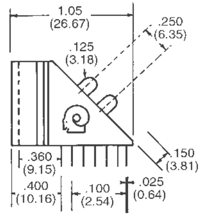
For Displays on .300" (7.62mm) Centers, 14 pin.

These low cost Vertisockets are recommended for high volume vertical display mounting applications.

Available in Tin Plated only.

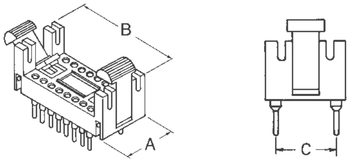


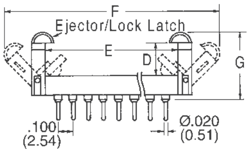




Digi-Key Part No.	Pricing 1	25	100	500	Aries Part No.
A116-ND	2.89	63.53	196.43	866.60	14-810-90R

Lock / Eject DIP Sockets

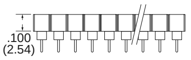




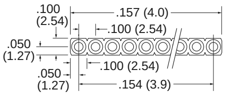
No. of Pins	Dimensions Inches (mm)						
	A	B	C	D	E	F	G
14	.400 (10.16)	.950 (24.16)	.300 (7.62)	.280 (7.11)	.770 (19.56)	1.300 (33.02)	.490 (12.45)
16	.400 (10.16)	1.050 (26.70)	.300 (7.62)	.280 (7.11)	.870 (22.10)	1.540 (39.12)	.490 (12.45)
24	.700 (17.78)	1.490 (37.85)	.600 (15.24)	.182 (4.62)	1.300 (33.02)	1.800 (45.72)	.460 (11.68)
28	.700 (17.78)	1.690 (42.90)	.600 (15.24)	.182 (4.62)	1.500 (38.10)	2.000 (50.80)	.460 (11.68)
32	.700 (17.78)	1.890 (48.00)	.600 (15.24)	.182 (4.62)	1.700 (43.18)	2.200 (55.88)	.460 (11.68)
40	.700 (17.78)	2.290 (58.20)	.600 (15.24)	.182 (4.62)	2.100 (53.34)	2.600 (66.04)	.460 (11.68)

No. of Pins	Fits Jumper Connectors, such as:	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
14	IC Packages	A514-ND	3.21	2.57	1.82	14-C280-10
16	IC Packages	A516-ND	3.49	2.79	1.98	16-C280-10
24	IC Packages	A524-ND	4.83	3.87	2.74	24-C182-10
28	IC Packages	A528-ND	5.14	4.12	2.92	28-C182-10
32	IC Packages	A532-ND	5.89	4.71	3.34	32-C182-10
40	IC Packages	A540-ND	7.48	5.99	4.24	40-C182-10

Series X518 Collet Sockets with Solder Tail Pins



Single Row



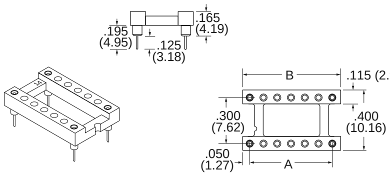
Features: • Cuttable to the number of pins desired to fit the application. • Side-to-side and end-to-end stackable.

Specifications:
• Body material is black UL 94V-0 Nylon 4/6 • Contact Current Rating: 3A • Operating Temperature: 221°F (105°C) Tin plating; 257°F (125°C) Gold plating • Accepts leads .015"-.025" (.381mm-.635mm) in diameter • Accepts lead lengths from .100" (2.54mm) min.

Mounting Considerations:
• Suggested PCB hole size: .030" ±.002" (.76mm ±.05mm) diameter

No. of Pins	Description	Digi-Key Part No.	Price Each 1	25	Aries Part No.
40	Tin Plated	A460-ND	2.33	1.96	40-0518-10
40	Gold Plated	A461-ND	3.43	2.88	40-0518-11

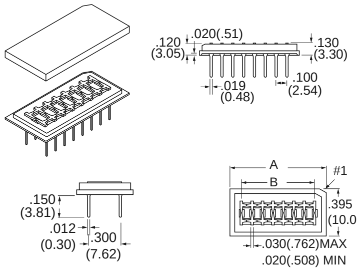
4-Pin Oscillator Sockets



Specifications:
• **Body Material:** Blue UL 94V-0 Glass-filled Polyester Thermoplastic (PBT) • **Pin Body Plating:** 200µ min. Tin per MIL-T-10727 over 100µ min. Nickel per QQ-N-290 • **Contact Plating:** 10µ min. Gold per MIL-G-45204 over 50µ min. Nickel per QQ-N-290 • **Contact Current Rating:** 3 Amps • **Operating Temp.:** 105°C • **Insertion Force:** 180 grams/pin; Withdrawal Force: 90 grams/pin; Normal Force: 140 grams/pin; based on a .018" (.46mm) diameter test lead • Accepts Leads .015"-.025" (.38mm-.64mm) in diameter, .100"-.146" (2.54mm-3.71mm) in length.

Size	Dim. – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
Full	.600 (15.24)	.700 (17.78)	A462-ND	.60	.50	.41	1107741
Half	.300 (7.62)	.400 (10.16)	A463-ND	.60	.50	.41	1108800

Series 680 Programmable Headers and Covers

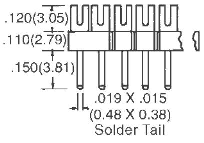


Features:

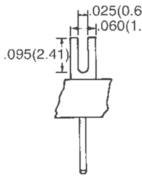
• Complete versatility for programming within the unit itself, thus eliminating the need for DIP switches in many situations.
Specifications: • **Body and Cover:** Red UL 94-HB glass-filled nylon • **Current Rating:** 1 amp • **Operating Temp.:** 221°F (105°C) • **Mounting Considerations:** Suggested PCB hole size: .032" ±.002" (.81mm ±.05mm) diameter

No. of Pins	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
Covers							
4	—	—	A470-ND	.36	.30	.25	04-655-10
6	—	—	A471-ND	.57	.49	.39	06-655-10
8	—	—	A472-ND	.57	.49	.39	08-655-10
10	—	—	A473-ND	.63	.53	.43	10-655-10
12	—	—	A474-ND	.63	.53	.43	12-655-10
14	—	—	A475-ND	.65	.55	.45	14-655-10
16	—	—	A476-ND	.65	.55	.45	16-655-10
18	—	—	A477-ND	.71	.60	.49	18-655-10
20	—	—	A478-ND	.71	.60	.49	20-655-10
22	—	—	A479-ND	.76	.64	.52	22-655-10
24	—	—	A480-ND	.82	.69	.56	24-655-10
Headers							
4	.25 (6.35)	.10 (2.54)	A700-ND	.79	.67	.54	04-680-190T
6	.35 (8.89)	.20 (5.08)	A701AE-ND	.88	.74	.60	06-680-190T
8	.45 (11.43)	.30 (7.62)	A702-ND	.93	.78	.64	08-680-190T
10	.55 (13.97)	.40 (10.16)	A703-ND	.99	.83	.68	10-680-190T
12	.65 (16.51)	.50 (12.70)	A704-ND	1.01	.85	.69	12-680-190T
14	.75 (19.05)	.60 (15.24)	A705-ND	1.06	.89	.72	14-680-190T
16	.85 (21.59)	.70 (17.78)	A706-ND	1.12	.95	.77	16-680-190T
18	.95 (24.13)	.80 (20.32)	A707-ND	1.17	.99	.80	18-680-190T
20	1.05 (26.67)	.90 (22.86)	A708-ND	1.22	1.03	.83	20-680-190T
22	1.15 (29.21)	1.00 (25.40)	A709-ND	1.28	1.08	.87	22-680-190T
24	1.25 (31.75)	1.10 (27.94)	A710-ND	1.32	1.11	.90	24-680-190T
ARIES ELECTRONICS Tool							
A490-ND Header Programming Tool **$22.34**							

Strip Line SIP Headers



25 Contact Header
PLATING = 100µ TIN

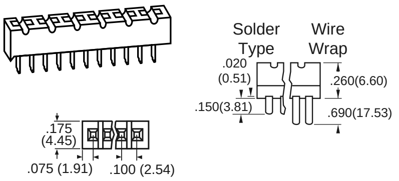


Forked Contact

Coined Contacts
"Break" feature on Pin Line Headers assures Headers can be easily snapped off to any number of positions without loss or damage to any pins. No tool is required. The "break" feature minimizes stocking problems and gives immediate adaptability for any length Header requirement to any grid or matrix pattern.

Digi-Key Part No.	Pricing 1	25	100	Aries Part No.
A115-ND	2.56	56.07	181.63	25-0600-10

Strip Line SIP Socket



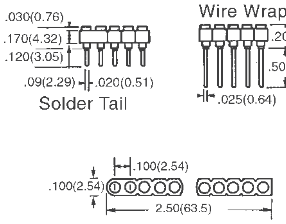
Contacts: Grade A spring temper phosphor bronze QQB-7500 **Plating:** 100µ tin plating per MIL-T-10727 **Socket:** Glass filled thermoplastic.

STRIP-LINE

Bifurcated Contacts

No. of Pins	Solder Tail Digi-Key Part No.	Price Each 1	25	100	Wire Wrap Digi-Key Part No.	Price Each 1	25	100
12	A200-ND	1.52	1.38	1.18	A204-ND	2.93	2.55	1.93
20	A201-ND	2.03	1.85	1.57	A205-ND	4.28	3.73	2.82
25	A202-ND	2.55	2.32	1.97	A206-ND	5.39	4.68	3.55
34	A203-ND	2.66	2.42	2.06	A207-ND	5.58	4.85	3.68

Pin Line Sockets with "Break" Feature



Tin-plated Pin Line sockets can be snapped apart into any required number of pins without damage or loss of pins. Pin Line sockets are low profile and used for mounting devices with .100" (2.54mm) spacing between pins. Rows of socket strips may be mounted on any centers or side-by-side for .100" (2.54mm) grid or matrix patterns. Strips also butt end-to-end and maintain .100" (2.54mm) spacing.

No. of Pins	Digi-Key Part No.	Price Each 1	25	100
Solder Tail Dip Socket with Screw Machined Pin				
25	A208-ND	2.47	2.18	1.69
Wire Wrap Socket with Screw Machined Pin				
25	A209-ND	7.85	6.82	5.17

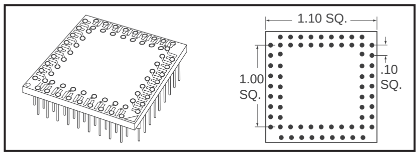
ARIES®
ELECTRONICS, INC.

Quad Flat Pack (QFP) to PGA Adapter for Motorola 68340

SPECIFICATIONS:
• Adapter body is black FR-4, .094 (2.39) thick, with 1 ounce minimum Copper traces. • **Pins:** Brass Alloy 360, 1/2 hard per QQ-B-626. • **Pin Plating:** 200µ (5.08µm) min. Tin per MIL-T-10727 over 100µ (2.54µm) min. Nickel per QQ-N-290. • **Operating Temperature:** 221°F (125°C).

Pin Count	Digi-Key Part No.	Price Each 1	25	Aries Part No.
144	A723-ND	90.99	78.00	97-68340

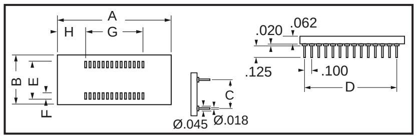
Chip Carriers



• Your present PLCC devices can be used in thru-hole applications by soldering to our adapters. • Your standard JEDEC footprints are converted to PGA footprints. • Your PGA Sockets (LIF) will save space. • Your p.c. board will have more space for conductor runs when converted to .100" (2.54mm) pin spacing. • Polarization option available. • Your standard test clip can be used for testing.
SPECIFICATIONS: Body: Copper Clad FR-4 Solder Plated. **Pins:** Brass, Tin/Lead Plated.

Pin Count	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
68	A171-ND	11.48	9.84	8.96	68-505-110

Surface Mount SOIC to DIP, SSOP to DIP, and SOJ to DIP Adapters



Materials: Board: .062" (1.57mm) thick double-sided FR-4 with 1 oz. copper traces. **Pins:** Brass alloy 360, 1/2 hard.
Plating: 200µ" min. 93/7 tin/lead per MIL-T-10727 type 1 over 100µ" min. nickel per QQ-N-290.
Suggested P.C.B. mounting hole = .028" (.71mm) Diameter

No. of Pins	Digi-Key Part No.	Dimensions (Inch) A	B	C	D	E	F	G	H
8	A724-ND	.400	.460	.300	.300	.455	.155	.150	.121
14	A725-ND	.700	.450	.300	.600	.420	.138	.300	.180
14	A730-ND	.700	.400	.300	.600	.340	.060	.154	—
16	A726-ND	.800	.450	.300	.700	.420	.138	.350	.180
16	A731-ND	.800	.400	.300	.700	.340	.060	.179	—
18	A732-ND	.900	.400	.300	.800	.340	.060	.205	—
18	A736-ND	.900	.450	.300	.800	.420	.138	.400	.180
20	A727-ND	1.000	.450	.300	.900	.420	.138	.450	.180
20	A325-ND	1.000	.420	.300	.900	.350	.090	.600	.060
20	A733-ND	1.000	.400	.300	.900	.340	.060	.230	—
24	A720-ND	1.200	.700	.600	1.100	.455	.150	.550	.180
24	A322-ND	1.200	.450	.300	1.100	.420	.138	.550	.180
28	A320-ND	1.400	.700	.600	1.300	.450	.075	.650	.375
28	A321-ND	1.400	.400	.300	1.300	.350	.090	.650	.375
28	A734-ND	1.400	.400	.300	1.300	.340	.060	.333	—
28	A735-ND	1.400	.700	.600	1.300	.340	.070	.333	—
32	A323-ND	1.600	.700	.600	1.500	.650	.200	.750	.425
32	A324-ND	1.600	.530	.400	1.500	.500	.090	.750	.425

No. of Pins	Type	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
8	SOIC	A724-ND	6.97	5.86	3.81	08-350000-10
14	SOIC	A725-ND	6.97	5.86	3.81	14-350000-10
14	SSOP	A730-ND	22.06	18.53	12.05	14-351000-10
16	SOIC	A726-ND	6.97	5.86	3.81	16-350000-10
16	SSOP	A731-ND	22.06	18.53	12.05	16-351000-10
18	SSOP	A732-ND	19.61	16.48	10.71	18-351000-10
18	SOIC	A736-ND	4.88	4.19	3.81	18-350000-10
20	SOIC	A727-ND	6.97	5.86	3.81	20-350000-10
20	SOJ	A325-ND	6.42	5.51	5.01	20-350001-10
20	SSOP	A733-ND	22.06	18.53	12.05	20-351000-10
24	SOIC	A720-ND	10.68	8.98	5.84	24-650000-10
24	SOIC	A322-ND	4.71	4.04	3.68	24-350000-10
28	SOIC	A320-ND	10.70	9.17	8.35	28-650000-10
28	SOIC	A321-ND	6.42	5.51	5.01	28-350002-10
28	SSOP	A734-ND	22.06	18.53	12.05	28-351000-10
28	SSOP	A735-ND	35.45	29.78	19.36	28-651000-10
32	SOJ	A323-ND	10.69	9.17	8.34	32-650000-10
32	SOJ	A324-ND	9.40	8.06	7.33	32-450001-10

Quad Flat Pack (QFP) to PGA Adapters

Fig. 1

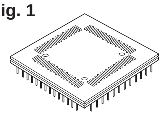
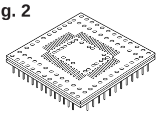


Fig. 2

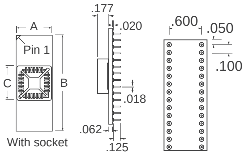


Adapters convert surface mount type Quad Flat Pack (QFP) packages to standard pin grid array through-hole packages on .100" (2.54mm) pin spacing. This allows the surface mount QFP package to be used in standard PGA and PGA ZIF sockets, which is extremely useful for testing. Typically, surface mount QFP packages are less expensive than their through-hole PGA counterparts. The surface mount packages are often more readily available. Also, the user does not have to redesign a through-hole board in order to utilize the advantages of the surface mount QFP packages.

Fig. No.	Chip Type/ Mfg.	Pads No.	PGA No.	Pins/ Matrix	Digi-Key Part No.	Price Each 1	25	Aries Part No.
1	JEDEC	132	132	13x13	A174-ND	33.80	28.97	95-132I25
2	EIAJ	100	100	13x13	A175-ND	32.50	27.86	96-100M65
1	EIAJ	160	160	15x15	A176-ND	32.50	27.86	96-160M65
—	EIAJ	208	208	17x17	A722-ND	60.67	52.00	96-208M50

Surface Mount PLCC to DIP Adapters

Materials:
• **Pins and Contacts:** Phosphor bronze adapter • **Body:** FR-4, .062" (1.57mm) thick • **Socket:** LCP, UL 94V-0 rated • **Pads & Traces:** 1 oz. min. copper.
Plating:
Pins: 200µ" tin per MIL-T-10727 over 100µ" nickel per QQ-N-290.
Contacts: 150µ" 90/10 tin/lead.



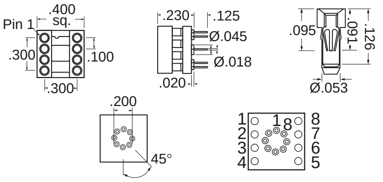
No.of Pins	Dim. (Inch) A	B	C	Digi-Key Part No.	Price Each 1	25	Aries Part No.
28	.77	1.40	.705	A326-ND	24.64	21.12	28-653000-10
32	.705	1.60	.805	A721-ND	40.93	34.38	32-653000-10
44	.97	2.20	.910	A327-ND	28.38	24.33	44-653000-10
68	1.28	3.40	1.220	A328-ND	32.84	28.15	68-653000-10
84	1.48	4.20	1.420	A329-ND	32.84	28.15	84-653000-10

TO to DIP Adapter/Socket

Features: 8-pin DIP IC socket on the top and a circular, 8-pin TO can male pin footprint on the bottom, can be readily mounted on boards having TO thru-hole footprints without having to redesign the board.

Specifications: • **Socket Body**: Black UL94V-0 glass-filled polyester thermoplastic. • **Female Pin Body Plating**: 200µ" min. tin over 100µ" min. nickel. • **Contact Plating:** 10µ" min. Gold over 50µ" min. Nickel. • **Male Pin:** Brass Alloy 360. • **Male Pin Plating:** 200µ" min. Tin. • **Current rating:** 3 Amps. • **Operating Temperature:** 221°F (105°C) Tin plating. • Accepts leads .015"-.025" (.38mm-.64mm) in diameter, .100"-.125" (2.54mm-3.18mm) long.

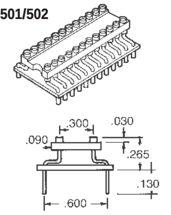
Mounting Considerations: Suggested PCB hole size: .028" (.71mm) diameter.



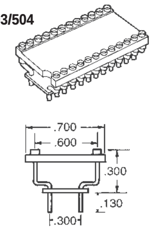
Digi-Key Part No.	Price Each 1	25	100	500	Aries Part No.
A330-ND	6.70	5.74	5.23	4.79	1109523

Adapter Sockets

A501/502

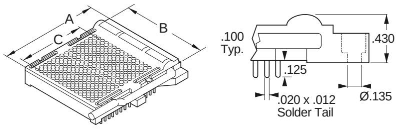


A503/504



No. of Pins	Description (Inch)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	.300 to .600	A501-ND	10.24	7.79	5.13	1106396-24
28	.300 to .600	A502-ND	11.42	8.69	5.72	1106396-28
24	.600 to .300	A503-ND	10.24	7.79	5.13	1107254-24
28	.600 to .300	A504-ND	11.42	8.69	5.72	1107254-28

PGA Zero Insertion Force (ZIF) Sockets



Features: • The Aries ZIF PGA is an extremely rugged, yet smooth acting test socket. • A strong metal cam activates the contacts which are normally closed. This prevents dependency on the plastic for contact force. • Housing of glass filled PPS, UL-94V-O rated.

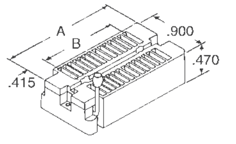
Specifications: • **Contacts:** Beryllium copper. • **Temperature Rating:** -65°C +125°C. • **Housing:** Glass filled PPS UL94VO rated. • **Handle:** Stainless steel.

Grid Size	No. of Pins	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each
13 x 13	169	1.894	1.675	1.200	A314-ND	28.04
15 x 15	225	2.094	1.875	1.400	A315-ND	34.94
17 x 17	289	2.294	2.075	1.600	A316-ND	42.62
19 x 19	361	2.494	2.275	1.800	A317-ND	51.26
21 x 21	441	2.694	2.475	2.000	A318-ND	60.93

Universal Zero Insertion Force (ZIF) Test Sockets

The new Aries Universal Test Socket is a direct replacement for other test sockets currently on the market, with a number of significant advantages.

• .900 (22.86) overall height with contact level up • Available 24, 28, 32, 40, 48 pins in body of UL 94VO rated polyphenylene sulfide. • Contacts available tin plated (for up to 105°C) or gold plated (for up to 150°C). • Insulation Resistance – 1000 megohms min. Dielectric withstanding voltage – 1000 VAC min. • Contact rating – 1 amp. • All pin count sockets (24, 28, 32, 40, 48) go into p.c.b.'s with .600 (15.24) centers. • Sockets can be soldered into p.c. boards or plugged into any socket. • Contacts are normally closed to eliminate dependence on plastic to sustain contact.

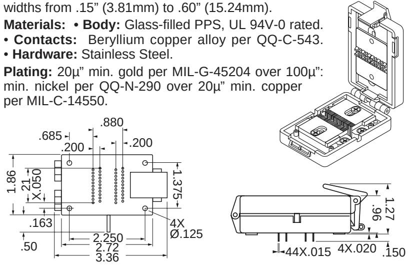


No. of Pins	Dim. (Inch) A	B
24	1.74	1.10
28	1.94	1.30
32	2.14	1.50
40	2.54	1.90
48	2.94	2.30

No. of Pins	Contact Plating	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	Tin	A300-ND	7.97	6.98	6.78	24-6554-10
24	Gold	A301AE-ND	11.52	10.09	9.80	24-6554-11
28	Tin	A302-ND	9.10	7.97	7.74	28-6554-10
28	Gold	A303-ND	12.49	10.93	10.62	28-6554-11
32	Tin	A304-ND	10.15	8.89	8.64	32-6554-10
32	Gold	A305-ND	13.84	12.11	11.77	32-6554-11
40	Tin	A306-ND	12.11	10.60	10.30	40-6554-10
40	Gold	A307-ND	16.51	14.45	14.05	40-6554-11
48	Tin	A308-ND	14.23	12.45	12.10	48-6554-10
48	Gold	A309-ND	19.32	16.91	16.43	48-6554-11

Surface Mount Universal SOIC Zero Insertion Force (ZIF) Test Sockets

Socket Accepts: SOIC gull wing & J-lead devices up to 44 pin devices; .050" (1.27mm) lead pitch; body widths from .15" (3.81mm) to .60" (15.24mm).
Materials: • **Body:** Glass-filled PPS, UL 94V-0 rated.
• **Contacts:** Beryllium copper alloy per QQ-C-543.
• **Hardware:** Stainless Steel.
Plating: 20µ" min. gold per MIL-G-45204 over 100µ": min. nickel per QQ-N-290 over 20µ" min. copper per MIL-C-14550.



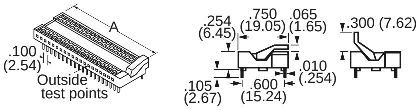
Digi-Key Part No.	Price Each	Aries Part No.
A339-ND	127.99	44-547-11
44 Pos. DIP Adapter (Converts A339-ND to standard 44 Pos. DIP)		
A728-ND	67.62	44-647-10

ELECTRONICS, INC.

Zero Insertion Force (ZIF) Lo-Profile Sockets

Features: A complete line of sizes, 24, 28 and 40 pin, low profile ZIF (zero insertion force) sockets provides a low cost solution for a test socket with a height of only .319” (8.10mm) [8, 10] and even with handle in open position, measures just .554” (14.07mm).

Specifications: • **Pin:** Spring temper beryllium copper, tin plated. • **Body:** Glass filled polyester UL94VO rated. • **Cam:** Cast metal.

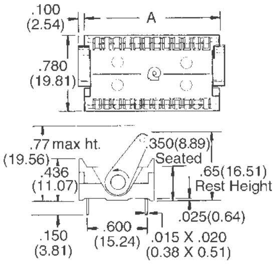


No. of Pins	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	1.450 (36.83)	A346-ND	6.03	5.48	4.66	24-526-10
28	1.650 (41.91)	A347-ND	6.50	5.91	5.03	28-526-10
40	2.250 (57.15)	A348-ND	7.82	7.11	6.05	40-526-10

Zero Insertion Force (ZIF) Sockets

Specifications:

• **Contacts:** Heat treated beryllium copper • **Plating:** 100μ tin plating per MIL-T-10727. • **Sockets:** Glass filled thermoplastic.



No. of Pins	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	1.30 (33.02)	A150-ND	8.90	8.01	7.57	24-516-10
28	1.62 (41.15)	A146-ND	9.58	8.62	8.15	28-516-10
40	2.10 (53.34)	A152-ND	12.63	11.37	10.75	40-516-10

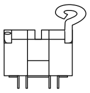
Quick-Release Universal ZIF Test Socket

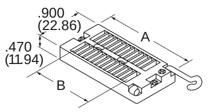
Features:

• Aries’ Universal Test Socket accepts devices on .300” (7.62mm) to .600” (15.24mm) centers • Sockets go into PCB .600” (15.24mm) centers • Swing quick-release handle down to open contacts and insert device. Release and handle automatically returns as contacts close onto device leads.

Specifications:

• **Socket Body**: Black UL 94V-0 Glass-filled Polyphenylene Sulfide (PPS) • **Handle:** stainless steel • **Contact Current Rating:** 1 amp • **Insulation Resistance:** 1000 MOhms min. • **Life Cycle:** 25,000 to 50,000 cycles • **Operating Temperature:** 221°F (105°C) Tin plating; 302°F (150°C) Gold plating • **Retention Force (when closed):** 55 grams/pin based on a .020” (.51mm) diameter test lead • Accepts leads .015”-.035” (.38mm-.89mm) wide, .100”-.280” (2.79mm-7.11mm) long


Loop Handle

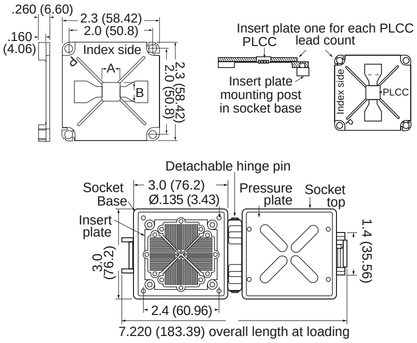


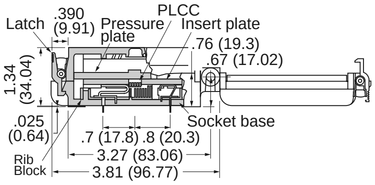
No. of Pins	Dim. – In. (mm) A	B
24	1.79 (45.47)	1.10 (27.94)
28	1.99 (50.55)	1.30 (33.02)
32	2.19 (55.63)	1.50 (38.10)
40	2.59 (65.79)	1.90 (48.26)
48	2.99 (75.95)	2.30 (58.42)

No. of Pins	Description	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	Tin Plated	A439-ND	10.36	8.71	7.05	24-6574-10
24	Gold Plated	A440-ND	14.98	12.59	10.20	24-6574-11
28	Tin Plated	A441-ND	11.83	9.94	8.05	28-6574-10
28	Gold Plated	A442-ND	16.23	13.64	11.05	28-6574-11
32	Tin Plated	A443-ND	13.33	11.20	9.07	32-6574-10
32	Gold Plated	A444-ND	18.16	15.26	12.36	32-6574-11
40	Tin Plated	A445-ND	15.74	13.23	10.71	40-6574-10
40	Gold Plated	A446-ND	21.48	18.05	14.62	40-6574-11
48	Tin Plated	A447-ND	18.50	15.54	12.59	48-6574-10
48	Gold Plated	A448-ND	25.11	21.10	17.09	48-6574-11

Surface Mount Universal PLCC ZIF Test Sockets

SPECIFICATIONS: • **Plastic Parts:** UL 94V-0 glass-filled thermoplastic • **Contact Pin:** Beryllium copper • **Fasteners, Spring, Hinge Pins:** Stainless steel • **Temperature Range:** -65°C to 125°C • **Life Cycle:** 10,000 insertions maximum.



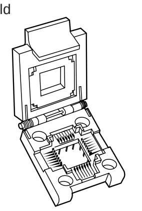


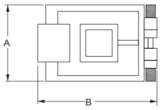
No. Of Pins	Dim. – Inch (mm) A	B	Digi-Key Part No.	Price Each	Aries Part No.
—	—	—	A331-ND	142.03	84-537-21
Adapter Plates					
20	.395/.397 (10.03/10.08)	.395/.397 (10.03/10.08)	A332-ND	8.83	20-537-20
28	.495/.497 (12.57/12.62)	.495/.497 (12.57/12.62)	A333-ND	8.83	28-537-20
32	.495/.497 (12.57/12.62)	.595/.597 (15.11/15.16)	A334-ND	8.83	32-537-20
44	.695/.697 (17.65/17.70)	.695/.697 (17.65/17.70)	A335-ND	8.83	44-537-20
52	.795/.797 (20.19/20.24)	.795/.797 (20.19/20.24)	A336-ND	8.83	52-537-20
68	.995/.997 (25.27/25.32)	.995/.997 (25.27/25.32)	A337-ND	8.83	68-537-20
84	1.195/1.197 (30.35/30.40)	1.195/1.197 (30.35/30.40)	A338-ND	8.83	84-537-20

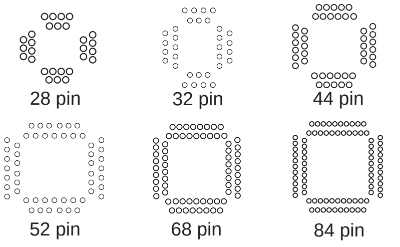
PLCC ZIF Test Sockets

Features: • Zero Insertion Force. • Corner posts provide positive package registration. • 12μ" Gold plating. • 10,000 insertions min.

Application: • Can be shimmed to accept many Ceramic, Leadless and J-Lead Packages.

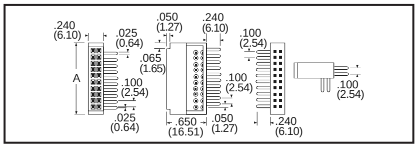


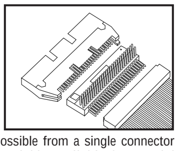




No. of Pins	Dim. Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100
28	1.181 (30.00)	1.605 (40.77)	A310-ND	61.89	54.82	48.28
32	1.180 (29.97)	1.583 (40.21)	A449-ND	73.81	62.01	40.31
44	1.339 (34.01)	1.772 (45.01)	A311-ND	63.43	56.19	49.48
52	1.500 (38.10)	1.920 (48.77)	A450-ND	75.76	63.65	41.37
68	1.654 (42.01)	2.343 (59.51)	A312-ND	77.34	68.50	60.33
84	1.890 (48.01)	2.580 (65.53)	A313-ND	87.17	77.21	68.00

3M Intra-Connector™

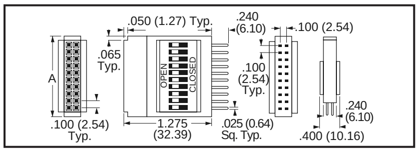


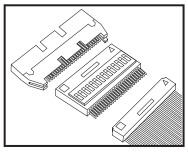


When you wanted to test for a problem that might lie on the circuit board or in the cable, you had a problem. Inaccessible? Not with a 3M ESP Intra-Connector™ system. The Intra-Connector mates in-line with standard double row socket connectors. It has one set of female contacts, but two sets of male contacts at right angles. So, it provides instant line-by-line “probe-ability.” The pins can also be used to make daisy chaining possible from a single connector cable end. Modified configurations are quickly available for special connections. The Intra-Connector system provides both straight-in and right angle functions. It mates with a standard .10” x .10” (2.54mm x 2.54mm) dual row connector or PC board-mounted .025” (.64mm) square pins. Two Intra-Connector systems used with the Intra-Switch™ system form a complete test assembly for probing signals under no load and full-load conditions. Contacts are non-corrosive Alloy 770; body is glass-filled polyester thermo-plastic.

No. of Contacts	Dim. A In. (mm)	Digi-Key Part No.	Price Each
20	1.160 (29.46)	922576-20-ND	14.84
26	1.460 (37.08)	922576-26-ND	15.45
34	1.860 (47.24)	922576-34-ND	17.24
40	2.160 (54.86)	922576-40-ND	18.90
50	2.660 (67.56)	922576-50-ND	20.45
60	3.160 (80.26)	922576-60-ND	23.77

3M Intra-Switch™

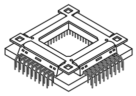




There are a lot of complicated, time consuming ways to interrupt a signal line on an assembly — some may even be damaging to your PC board. But there’s one easy way; Intra-Switch™ from 3M ESP. Simply by inserting the Intra-Switch™ connector between mating system connectors you have instant line-by-line switching. The low profile design and recessed switch buttons give you room to work in confined areas. Using a pencil or probe tip, any or all switches may be actuated. Applications include switching command signals to or from test equipment and programming optional preset logic functions. Switch buttons are recessed to prevent accidental switching. “Open” and “closed” positions are clearly marked, molded-in the body. Contacts are non-corrosive Alloy 770; body is glass-filled polyester thermoplastic. Intra-Switch is compatible with most sockets and mating headers for flat cable, including 3M, T&B/Ansley, Berg, Amp, Symbex and many others.

No. of Contacts	Dim. A In. (mm)	Digi-Key Part No.	Price Each
20	1.160 (29.46)	922578-20-ND	29.62
26	1.460 (37.08)	922578-26-ND	36.06
34	1.860 (47.24)	922578-34-ND	38.16
40	2.160 (54.86)	922578-40-ND	46.39
50	2.660 (67.56)	922578-50-ND	41.36

3M OEM PQFP Sockets



Features: • Accepts JEDEC MO-069 packages, lead sizes 84 through 196 • .025” (.64mm) centerline contacts for high-density packaging • Lid design separates, maintains IC lead spacing • Lid acts as package carrier and transport protector • Lid is compatible with conventional package shipping tubes and trays • Slotted, “open” socket walls and corners permit airflow around captured package (aids in package heat dissipation) • Hinged socket latches audibly “snap” signals secure lid/package assembly to base, expedites package withdrawal • .075” (1.91mm) contact spacing and .100” (2.54mm) row spacing.

Physical Specifications: • **Insulation Socket and Lid:** • Material: Glass Filled Polyethersulfone (PES) • Flammability: UL94 V-0 • Color: Black • **Latching Aid:** • Material: Polycarbonate (PC) • Color: Black • **Contact:** • Material: Beryllium Copper (C172) Plating • Underplate: 50μ” (1.27μm) Sulfamate Nickel • Wiping Area: 200μ” (5.08μm) 60/40 Tin Lead • Soldertails: 200μ” (5.08μm) 60/40 Tin Lead • **Marking:** Raised Letters

Electrical Specifications: • Current Rating: 1 Amp • Insulation Resistance: $>1x10^{12}\Omega$ • Withstanding Voltage: 1000 Vrms at Sea Level

Environmental Specifications: • Temperature Rating Operating: -55°C to +105°C

No. of Contacts	Digi-Key Part No.	Pricing 1	10	3M Part No.
PQFP Socket Tin				
84	3M8409-ND	35.38	308.20	284-7242-70-1807
100	3M1009-ND	37.62	327.70	2100-7243-00-1807
132	3M1329-ND	41.98	365.70	2132-7244-70-1807
164	3M1649-ND	28.45	203.42	2016407245-00001800

ASSMANN IC Sockets Machine Pin with gold plated precision spring contacts, open frame, solder pin and wire wrap terminals.

Fig. 1

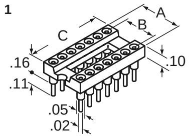
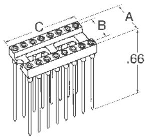


Fig. 2



Contacts: Contact spring: copper alloy, slit 4 times. Surface gold over nickel. Absolute protection against capillary action. Connecting pins brass, solder version.

Mechanical and Electrical Data: Depth of insertion 2.3 to 3.7 mm. Vibration 20 g after MIL-STD-202. Shock 150g to MIL-STD-202. Insertion frequency >1000. Transitional resistance after 100 insertion cycles ≤12mΩ. Capacity between adjacent contacts <0.9pF. Capacity between opposite adjacent contacts <0.4pF. Air and creepage space between adjacent contacts >0.4mm. Tensile strength 1000 V_{eff}.

Insulators: Polyester GV, VO self-extinguishing UL 94. Insulation resistance $10^{12}\Omega$. Operating temperature range -65°C to + 150°C. Retains shape in solder bath. Resistant to detergent.

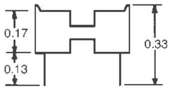
Contact Plating: Pin: Tin Clip: Gold.

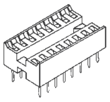
Fig.	No. of Cont.	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Assmann Part No.
Solder Tail									
Gold Flash									
1	8	0.40	0.30	0.40	AE7208-ND	.35	.31	.25	AR08-HZL-TT
	14	0.40	0.30	0.70	AE7214-ND	.63	.55	.45	AR14-HZL-TT
	16	0.40	0.30	0.80	AE7216-ND	.72	.63	.51	AR16-HZL-TT
	18	0.40	0.30	0.90	AE7218-ND	.84	.73	.59	AR18-HZL-TT
	20	0.40	0.30	1.00	AE7220-ND	.93	.81	.66	AR20-HZL-TT
	22	0.50	0.40	1.10	AE7222-ND	1.02	.89	.72	AR22-HZL-TT
	24	0.70	0.60	1.20	AE7224-ND	1.14	.99	.80	AR24-HZL-TT
	28	0.70	0.60	1.40	AE7228-ND	1.32	1.15	.93	AR28-HZL-TT
	40	0.70	0.60	2.00	AE7240-ND	1.95	1.69	1.37	AR40-HZL-TT
	48	0.70	0.60	2.40	AE7248-ND	2.37	2.06	1.66	AR48-HZL-TT
	64	1.00	0.90	3.20	AE7264-ND	3.15	2.73	2.21	AR64-HZL-TT
10µ" Gold									
1	6	0.40	0.30	0.30	AE7300-ND	.43	.38	.31	AR06-HZL/01-TT
	8	0.40	0.30	0.40	AE7301-ND	.47	.41	.33	AR08-HZL/01-TT
	14	0.40	0.30	0.70	AE7302-ND	.70	.61	.50	AR14-HZL/01-TT
	16	0.40	0.30	0.80	AE7303-ND	.79	.69	.56	AR16-HZL/01-TT
	20	0.40	0.30	1.00	AE7304-ND	1.03	.89	.72	AR20-HZL/01-TT
	24	0.70	0.60	1.20	AE7305-ND	1.23	1.07	.87	AR24-HZL/01-TT
	24	0.40	0.30	1.20	AE7306-ND	1.23	1.07	.87	AR24-HZL/7/01-TT
	28	0.70	0.60	1.40	AE7307-ND	1.44	1.25	1.01	AR28-HZL/01-TT
	28	0.40	0.30	1.40	AE7308-ND	1.44	1.25	1.01	AR28-HZL/7/01-TT
	32	0.70	0.60	1.60	AE7309-ND	1.73	1.50	1.21	AR32-HZL/01-TT
	40	0.70	0.60	2.00	AE7310-ND	2.05	1.78	1.44	AR40-HZL/01-TT
	48	0.70	0.60	2.40	AE7311-ND	2.58	2.24	1.81	AR48-HZL/01-TT
30µ" Gold									
1	6	0.40	0.30	0.30	AE7312-ND	.46	.40	.32	AR06-HZL/07-TT
	8	0.40	0.30	0.40	AE7313-ND	.54	.47	.38	AR08-HZL/07-TT
	14	0.40	0.30	0.70	AE7314-ND	.79	.69	.56	AR14-HZL/07-TT
	16	0.40	0.30	0.80	AE7315-ND	.90	.78	.63	AR16-HZL/07-TT
	18	0.40	0.30	0.90	AE7316-ND	.90	.78	.63	AR18-HZL/07-TT
	20	0.40	0.30	1.00	AE7317-ND	1.13	.98	.79	AR20-HZL/07-TT
	24	0.70	0.60	1.20	AE7318-ND	1.35	1.18	.95	AR24-HZL/07-TT
	24	0.40	0.30	1.20	AE7319-ND	1.35	1.18	.95	AR24-HZL/7/07-TT
	28	0.70	0.60	1.40	AE7320-ND	1.58	1.37	1.11	AR28-HZL/07-TT
	28	0.40	0.30	1.40	AE7321-ND	1.58	1.37	1.11	AR28-HZL/7/07-TT
	32	0.70	0.60	1.60	AE7322-ND	1.89	1.65	1.33	AR32-HZL/07-TT
	40	0.70	0.60	2.00	AE7323-ND	2.25	1.96	1.58	AR40-HZL/07-TT
	48	0.70	0.60	2.40	AE7324-ND	2.73	2.37	1.92	AR48-HZL/07-TT
Wire Wrap									
2	8	0.40	0.30	0.40	AE7108-ND	.96	.84	.68	AR08-HZW/T
	14	0.40	0.30	0.70	AE7114-ND	1.65	1.43	1.16	AR14-HZW/T
	16	0.40	0.30	0.80	AE7116-ND	1.89	1.64	1.33	AR16-HZW/T
	18	0.40	0.30	0.90	AE7118-ND	2.13	1.85	1.50	AR18-HZW/T
	20	0.40	0.30	1.00	AE7120-ND	2.37	2.06	1.66	AR20-HZW/T
	22	0.50	0.40	1.10	AE7122-ND	2.61	2.27	1.83	AR22-HZW/T
	24	0.70	0.60	1.20	AE7124-ND	2.85	2.47	2.00	AR24-HZW/T
	28	0.70	0.60	1.40	AE7128-ND	3.30	2.86	2.31	AR28-HZW/T
	40	0.70	0.60	2.00	AE7140-ND	4.74	4.11	3.32	AR40-HZW/T

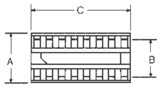
ASSMANN

IC Sockets

Dual Wipe Solder Tail







Contacts: Phosphor bronze. Protection against capillary version. **Mechanical and Electrical Data:** Transitional resistance ≤12mΩ. Capacity between adjacent contacts <0.9 pF. Capacity between opposite adjacent contacts <0.4 pF. Breakdown voltage 600 V_{eff}. Insertion force ≤1.5N · Extraction force ≥0.7N. **Insulators:** Polyester GV,VO,UL 94. Insulation resistance $10^{12}\,\Omega$. Operation temperature range -65°C to +150°C.

Dimensions (Inch) A	B	C	Digi-Key Part No.
0.39	0.30	0.30	AE8906-ND
0.39	0.30	0.30	AE9806-ND
0.39	0.30	0.39	AE8908-ND
0.39	0.30	0.39	AE9808-ND
0.39	0.30	0.70	AE8914-ND
0.39	0.30	0.70	AE9814-ND
0.39	0.30	0.80	AE8916-ND
0.39	0.30	0.80	AE9816-ND
0.39	0.30	0.90	AE8918-ND
0.39	0.30	1.90	AE9818-ND

Dimensions (Inch) A	B	C	Digi-Key Part No.
0.39	0.30	1.00	AE8920-ND
0.30	0.30	1.00	AE9820-ND
0.50	0.40	1.10	AE8922-ND
0.50	0.40	1.10	AE9822-ND
0.70	0.60	1.20	AE8924-ND
0.70	0.60	1.20	AE9824-ND
0.70	0.60	1.40	AE8928-ND
0.70	0.60	1.40	AE9828-ND
0.70	0.60	2.00	AE8940-ND
0.70	0.60	2.00	AE9840-ND

No. of Cont.	Contact Plating	Digi-Key Part No.	Price Each 1	10	100	500	Assmann Part No.
6	Tin	AE8906-ND	.17	.14	.11	.08	A06-LC-TT
6	Gold	AE9806-ND	.33	.29	.23	.20	A06-LCG
8	Tin	AE8908-ND	.10	.08	.07	.05	A08-LC-TT
8	Gold	AE9808-ND	.36	.32	.26	.22	A08-LCG
14	Tin	AE8914-ND	.17	.14	.12	.08	A14-LC-TT
14	Gold	AE9814-ND	.57	.50	.40	.35	A14-LCG
16	Tin	AE8916-ND	.19	.16	.13	.10	A16-LC-TT
16	Gold	AE9816-ND	.65	.57	.46	.40	A16-LCG
18	Tin	AE8918-ND	.22	.18	.15	.11	A18-LC-TT
18	Gold	AE9818-ND	.73	.64	.52	.44	A18-LCG
20	Tin	AE8920-ND	.24	.20	.16	.12	A20-LC-TT
20	Gold	AE9820-ND	.81	.71	.57	.49	A20-LCG
22	Tin	AE8922-ND	.49	.39	.32	.23	A22-LC-T2
22	Gold	AE9822-ND	.89	.78	.63	.54	A22-LCG
24	Tin	AE8924-ND	.54	.44	.35	.26	A24-LC-TT
24	Gold	AE9824-ND	.98	.85	.69	.59	A24-LCG
28	Tin	AE8928-ND	.34	.28	.23	.16	A28-LC-T
28	Gold	AE9828-ND	1.14	.99	.80	.69	A28-LCG
40	Tin	AE8940-ND	.49	.39	.32	.23	A40-LC-TT
40	Gold	AE9840-ND	1.63	1.42	1.15	.98	A40-LCG

ASSMANN

PLCC Sockets

Fig. 1

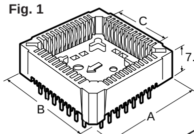
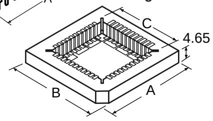


Fig. 2



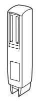
Contacts: Phosphor bronze, tin and gold plated
Current Rating: 1A
Insulating Resistance: 1000MΩ min.
Withstanding Resistance: 600Vrms
Contact Resistance: 30mΩ max.
Operating Temperature: -55°C to +110°C
Insulator: PBT, UL 94V-0

Fig.	No. of Cont.	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Assmann Part No.
PLCC-Thru Hole									
Tin									
1	20	0.61	0.61	0.20	AE7325-ND	.74	.65	.53	A-CCS20-Z
	28	0.71	0.71	0.30	AE7326-ND	.78	.68	.55	A-CCS28-Z
	32	0.71	0.81	0.30	AE7327-ND	.82	.72	.58	A-CCS32-Z
	44	0.93	0.93	0.50	AE7328-ND	.90	.78	.63	A-CCS44-Z
	52	1.02	1.02	0.60	AE7329-ND	.98	.85	.69	A-CCS52-Z
	68	1.23	1.23	0.80	AE7330-ND	1.00	.87	.70	A-CCS68-Z
	84	1.42	1.42	1.00	AE7331-ND	1.15	1.00	.81	A-CCS84-Z
Gold									
1	20	0.61	0.61	0.20	AE7332-ND	1.21	1.05	.85	A-CCS20-G
	28	0.71	0.71	0.30	AE7333-ND	1.21	1.05	.85	A-CCS28-G
	32	0.71	0.81	0.30	AE7334-ND	1.40	1.21	.98	A-CCS32-G
	44	0.93	0.93	0.50	AE7335-ND	1.52	1.32	1.07	A-CCS44-G
	52	1.02	1.02	0.60	AE7336-ND	1.52	1.32	1.07	A-CCS52-G
	68	1.23	1.23	0.80	AE7337-ND	1.58	1.37	1.11	A-CCS68-G
	84	1.42	1.42	1.00	AE7338-ND	1.76	1.53	1.23	A-CCS84-G
PLCC — Surface Mount									
Tin									
2	20	0.62	0.62	0.20	AE7339-ND	.67	.58	.47	A-CCS20-Z-SM
	28	0.72	0.72	0.30	AE7340-ND	.71	.62	.50	A-CCS28-Z-SM
	32	0.72	0.82	0.40	AE7341-ND	.65	.56	.46	A-CCS32-Z-SM
	44	0.92	0.92	0.50	AE7342-ND	.78	.68	.55	A-CCS44-Z-SM
	52	1.02	1.02	0.60	AE7343-ND	.96	.83	.67	A-CCS52-Z-SM
	68	1.22	1.22	0.80	AE7344-ND	1.04	.90	.73	A-CCS68-Z-SM
	84	1.42	1.42	1.00	AE7345-ND	1.21	1.05	.85	A-CCS84-Z-SM

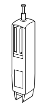
OK Industries
Division of Jonard Industries Corp.

IC Insertion/Extraction Tools

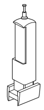
K153-ND



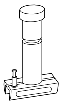
K154-ND



K155-ND

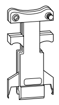


K156-ND

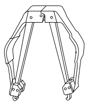


K157-ND

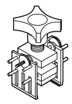
K158-ND



K293-ND



K375-ND

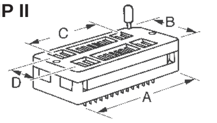


Description	Digi-Key Part No.	Price Each
14-16 Pin Dip/IC Inserter	K153-ND	21.46
14-16 Pin CMOS Safe Inserter	K154-ND	24.86
24-28 Pin CMOS Safe Inserter	K155-ND	24.86
36-40 Pin CMOS Safe Inserter	K156-ND	24.87
Extractor Tool, (8 to 24 pins)	K157-ND	3.38
Extractor Tool, (24 to 40 pins)	K158-ND	24.86
Insertion & Extraction Kit	K159-ND	84.79
Universal PLCC Extraction Tool	K293-ND	23.74
Low Cost Universal PLCC Extractor	K374-ND	10.18
Universal PGA Insert/Extract Kit*	K375-ND	225.00

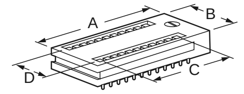
The K159 Kit contains: K154, K155, K156, K157 and K158.* K375-ND, Comes complete with Case and two sets of Jaws.

TEXTOOL/3M Zero Insertion Force (ZIF) I.C. Sockets

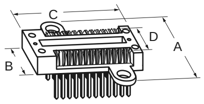
ZIP DIP II



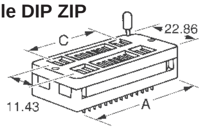
Econo ZIF



Receptacle for ZIP DIP Sockets



Double DIP ZIP



ZIP DIP II SOCKETS: For test and burn-in of all common dual-in-line packages on .100" lead spacing. The zero insertion pressure feature allows easy insertion and removal without lead distortion. Receptacles are ideal for high use situations such as PROM programming.

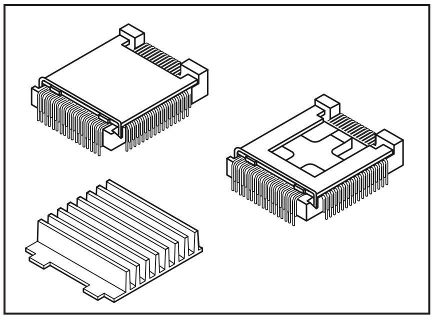
ECONO ZIF SOCKETS: Designed for OEM/end use applications where field replacement or programming of DIPs is required. The patented ZIF feature uses screwdriver rotation of a cam (instead of a lever) for security against vibration or accidental unloading. Leads are on .100" centers.

RECEPTACLES FOR ZIP DIP: Features: • Matching receptacle for every ZIP DIP Socket • Mounting flange standard option to hold receptacle to board • Pre-tapped holes in receptacle body mate with screw-hole in socket to hold socket firmly to receptacle (2 screws provided with each receptacle) • Available in solder-tail options. **Physical Specifications:** • Insulation Material: Glass Reinforced Polysulfone, Flammability Rating: UL 94V-0 • Color: Green • Marking: Part Number Identification • Contact Material: Beryllium Copper • Plating: 30µ" (.076µm) Gold — MIL-G-45204, Type II, Grade C over 50µ" (1.3µm) Sulfamate Nickel per QQ-N-290A, Class 2 or 75µ" (1.9µm) Nickel Boron. **Electrical Specifications:** • Current Rating: 1Amp • Insulation Resistance: >1x10^{12}Ω at 500 Vdc Withstanding Voltage: 1000Vrms at Sea Level. **Environmental Specifications:** • Temperature Rating Operating: -67°F (-55°C) to +302°F (+150°C)

ZIP DIP SOCKETS .100 CENTERS - DOUBLE DIP: Features: • For DIPs with .100" lead spacing • Extra wide contact zone allows insertion of DIPs with distance between rows from .300" through .600" • Lever actuated zero insertion force mechanism • Socket easily disassembles for repairability

No. of Pins	Contact Plating	Dimensions – Inch (mm)				Digi-Key Part No.	Pricing		3M Part No.
		A	B	C	D		1	10	
ZIP DIP Sockets									
14	Gold	1.30 (33.02)	.60 (15.24)	.60 (15.24)	.300 (7.62)	3M1402-ND	16.44	130.50	214-3339-00-0602J
16	Gold	1.39 (35.31)	.60 (15.24)	.70 (17.78)	.300 (7.62)	3M1602-ND	17.12	135.90	216-3340-00-0602J
18	Gold	1.49 (37.85)	.60 (15.24)	.80 (20.32)	.300 (7.62)	3M1802-ND	17.80	141.30	218-3341-00-0602J
20	Gold	1.59 (40.39)	.60 (15.24)	.90 (22.86)	.300 (7.62)	3M2002-ND	18.48	146.60	220-3342-00-0602J
22	Gold	1.69 (42.93)	.70 (17.78)	1.00 (25.40)	.400 (10.16)	3M2202-ND	19.15	152.00	222-3343-00-0602J
24	Gold	1.79 (45.47)	.90 (22.86)	1.10 (27.94)	.600 (15.24)	3M2402-ND	17.04	135.30	224-1275-00-0602J
28	Gold	1.99 (50.55)	.90 (22.86)	1.30 (33.02)	.600 (15.24)	3M2802-ND	18.93	150.20	228-1277-00-0602J
40	Gold	2.60 (66.04)	.90 (22.86)	1.90 (48.26)	.600 (15.24)	3M4002-ND	24.51	194.50	240-1280-00-0602J
64	Gold	3.95 (100.33)	1.30 (33.02)	3.10 (78.74)	.900 (22.86)	3M6402-ND	36.20	287.30	264-4493-00-0602J
Econo ZIF Sockets									
14	Gold	1.00 (25.40)	.50 (12.70)	.600 (15.24)	.300 (7.62)	3M1403-ND	10.71	93.30	214-4839-00-3303
16	Gold	1.10 (27.94)	.50 (12.70)	.700 (17.78)	.300 (7.62)	3M1603-ND	7.92	69.00	216-6278-00-3303
20	Gold	1.30 (33.02)	.50 (12.70)	.900 (22.86)	.300 (7.62)	3M2003-ND	11.73	102.20	220-4842-00-3303
24	Gold	1.50 (38.10)	.80 (20.32)	1.100 (27.94)	.600 (15.24)	3M2403-ND	12.40	108.00	224-4844-00-3303
28	Gold	1.70 (43.18)	.80 (20.32)	1.300 (33.02)	.600 (15.24)	3M2803-ND	11.73	102.20	228-1296-00-3303
40	Gold	2.30 (58.42)	.80 (20.32)	1.900 (48.26)	.600 (15.24)	3M4003-ND	15.18	132.30	240-4846-00-3303
64	Gold	3.54 (89.92)	1.10 (27.94)	3.100 (78.74)	.900 (22.86)	3M6403-ND	19.36	168.60	264-5200-00-3303
ZIP DIP Receptacle									
14	Gold	1.00 (25.40)	.60 (15.24)	1.28 (32.51)	.300 (7.62)	3M1401-ND	15.45	116.90	214-3339-09-0602J
16	Gold	.96 (24.38)	.56 (14.22)	1.37 (34.80)	.300 (7.62)	3M1601-ND	16.11	121.90	216-3340-09-0602J
18	Gold	.95 (24.13)	.55 (13.97)	1.49 (37.85)	.300 (7.62)	3M1801-ND	16.86	127.60	218-3341-09-0602J
20	Gold	1.00 (25.40)	.60 (15.24)	1.58 (40.13)	.300 (7.62)	3M2001-ND	17.52	132.50	220-3342-09-0602J
22	Gold	1.06 (26.92)	.65 (16.51)	1.69 (42.93)	.400 (10.16)	3M2201-ND	18.18	137.50	222-3343-09-0602J
24	Gold	1.26 (32.00)	.86 (21.84)	1.77 (44.96)	.603 (15.32)	3M2401-ND	16.20	122.60	224-1275-09-0602J
28	Gold	1.26 (32.00)	.86 (21.84)	1.98 (50.29)	.600 (15.24)	3M2801-ND	17.99	136.10	228-1277-09-0602J
40	Gold	1.27 (32.26)	.86 (21.84)	2.58 (65.53)	.606 (15.39)	3M4001-ND	22.42	169.60	240-1280-09-0602J
64	Gold	1.70 (43.18)	1.30 (33.02)	3.95 (100.33)	.900 (22.86)	3M6401-ND	35.89	271.50	264-4493-09-0602J
Double DIP Socket ZIP									
24	Gold	1.77 (44.96)	—	1.10 (27.94)	—	3M2406-ND	23.75	188.50	224-1286-00-0602J
28	Gold	1.99 (50.55)	—	1.30 (33.02)	—	3M2806-ND	26.85	213.10	228-1371-00-0602J
40	Gold	2.59 (65.79)	—	1.90 (48.26)	—	3M4006-ND	35.07	278.30	240-1288-00-0602J

3M OEM Type “A” LCC Sockets



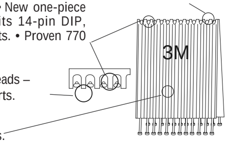
Features: • Accepts JEDEC leadless type “A” ceramic chip carriers • Variety of lid options available • “U” lid for I.C.E. adapter I/O cable egress • Head Sink(s) acceptable and available • Thruster spring helps register substrate three corner notches, maintain centering • Polarizing post on bottom of socket • Through hole contact tails • No tools required for package insertion/removal • Full contact probe-ability • High temperature PPS plastic and BeCu contacts for rugged performance
Physical Specifications: • **Insulation:** • Material: Glass Filled Polyphenylene Sulfide (PPS) • Flammability: UL94 V-0 • Color: Black • **Lid Material:** Aluminum • **Latch Material:** Stainless Steel • **Thruster & Contact Material:** Beryllium Copper (C172) Plating; Underplate: 50µ" (1.27µm) Nickel; Wiping Area: 30µ" (0.76µm) Gold; Solder Tails: 30µ" (0.76µm) Gold • **Marking:** Raised Letters
Electrical Specifications: • Current Rating: 1 Amp • Insulation Resistance: >1x10^{12}Ω • Withstanding Voltage: 1000 Vrms at Sea Level
Environmental Specifications: • Operating Temperature Rating: -55° to +105°C

Lid Type	No./ Cont.	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
LCC Sockets					
Full	68	3M6809A-ND	16.15	140.70	268-5401-00-1102JH
No Lid	68	3M6809B-ND	16.15	140.70	268-5401-11-1102JH
U-Shaped	68	3M6809C-ND	16.27	141.70	268-5401-50-1102JH
Finned Heat Sink	68	3M6809D-ND	19.17	167.00	268-5401-52-1102JH
LCC Socket Lid					
Full	—	3MLLSF-ND	.91	7.90	268-5401-00-0000
U-Shaped	—	3MLLSU-ND	1.03	9.00	268-5401-50-0000
Finned Heat Sink	—	3MLLSH-ND	3.45	30.00	268-5401-52-0000

3M IC Test Clips

New “open-nose” design now permits probe tip access at DIP leads.

• Simplifies prototype and production testing, field service work, and Quality Control. • New one-piece body for each DIP size. TC-14 fits 14-pin DIP, etc. • High reliability Gold contacts. • Proven 770 Alloy contacts.



“Contact comb” fits between DIP leads – eliminating any possibilities of shorts.

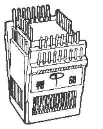
New “duck-bill” contacts are flat-won't roll off new narrow DIP leads.

Rugged, engineering-grade thermoplastic body molded around contact pins

No. of Pins	Row to Row (Inch)	Nail-Head Leads Digi-Key Part No.	Price Each	Headless Leads Digi-Key Part No.	Price Each
Alloy 770					
8	.3	923695-ND	9.79	923690-08-ND	9.79
14	.3	923698-ND	9.85	923690-14-ND	10.04
16	.3	923700-ND	9.95	923690-16-ND	10.14
16	.5/.6	923702-ND	16.54	—	—
18	.3	923703-ND	13.99	923690-18-ND	13.99
20	.3	923704-ND	14.64	923690-20-ND	14.64
22	.5/.6	923705-ND	18.15	—	—
24	.5/.6	923714-ND	19.05	923690-24-ND	19.05
24	.3	923715-ND	19.05	923689-24-ND	19.05
28	.5/.6	923718-ND	22.85	923690-28-ND	22.85
28	.3	923717-ND	22.85	923689-28-ND	22.85
36	.5/.6	923720-ND	25.37	923690-36-ND	25.37
40	.5/.6	923722-ND	26.62	923690-40-ND	26.62
64	.9	923726-ND	40.56	—	—
Gold Plated					
8	.3	923743-08-ND	11.87	923739-08-ND	11.87
14	.3	923743-14-ND	12.19	923739-14-ND	12.19
16	.3	923743-16-ND	12.50	923739-16-ND	12.50
18	.3	923743-18-ND	16.90	923739-18-ND	17.57
20	.3	923743-20-ND	17.65	923739-20-ND	18.32
24	.5/.6	923743-24-ND	23.22	923739-24-ND	23.89
24	.3	923742-24-ND	23.22	923738-24-ND	23.22
28	.5/.6	923743-28-ND	27.91	923739-28-ND	28.57
28	.3	923742-28-ND	27.91	923738-28-ND	27.91
40	.5/.6	923743-40-ND	32.72	923739-40-ND	32.72
48	.5/.6	—	—	923739-48-ND	43.81
64	.9	—	—	923739-64-ND	50.13

3M Surface Mount Test Clips

by 3M Electronic Specialty Products



Features: • Allow safe, convenient, fast and easy testing of normally hard-to-access. Small Outline Integrated Circuits (SOICs) • Eight sizes available for .30" (7.62mm) and .15" (3.81mm) package sizes • Helical compression springs and insulating contact combs ensure contact integrity during testing • Permits devices stacked as close as .0505" (1.28mm) end-to-end to be tested simultaneously • Standard .025" (.64mm) square contacts on .10" (2.54mm) centers at the probe end of the clip easily accept test probes or single row female socket connectors • Steel hinge pin and glass filled polyester body provide long service life • Available with alloy 764 unplated and gold plated leads • Allows safe, convenient testing of Plastic Leaded Chip Carrier (PLCC) style ICs • All four sides of test clip open simultaneously for fast and easy attachment to PLCC being tested • Stays securely clamped to PLCC until removed • Helical compression springs and insulating contact combs ensure contact integrity during testing • Permits testing of ICs with as little as .200" (5.08mm) row to row spacing between devices • Staggered contact rows on .100" (2.54mm) centers • Industry standard .025" (.64mm) square contact pins on the .100" (2.54mm) centers • Available with alloy 764 leads and gold plated leads.

No. of Pin	Description	Narrow Digi-Key Part No.	Price Each	Wide Digi-Key Part No.	Price Each
		.150" SOIC		*.300" SOIC*	
8	Alloy 764	923650-08-ND	10.90	—	—
14	Alloy 764	923650-14-ND	11.04	—	—
16	Alloy 764	923650-16-ND	11.35	923660-16-ND	11.49
18	Alloy 764	—	—	923660-18-ND	12.15
20	Alloy 764	—	—	923660-20-ND	12.27
24	Alloy 764	—	—	923660-24-ND	13.77
28	Alloy 764	—	—	923660-28-ND	14.75
8	Gold Plated	923655-08-ND	11.35	—	—
14	Gold Plated	923655-14-ND	12.57	—	—
16	Gold Plated	923655-16-ND	12.45	923665-16-ND	13.19
18	Gold Plated	—	—	923665-18-ND	13.29
20	Gold Plated	—	—	923665-20-ND	13.45
24	Gold Plated	—	—	923665-24-ND	15.17
28	Gold Plated	—	—	923665-28-ND	16.29

No. of Pin	Description	PLCC Digi-Key Part No.	Price Each
PLCC			
20	Alloy 764	923670-20-ND	30.24
28	Alloy 764	923670-28-ND	32.07
44	Alloy 764	923670-44-ND	40.69
68	Alloy 764	923670-68-ND	46.83
20	Gold Plated	923675-20-ND	33.34
28	Gold Plated	923675-28-ND	39.46
44	Gold Plated	923675-44-ND	43.63
68	Gold Plated	923675-68-ND	51.39
84	Gold Plated	923675-84-I-ND	55.36

Logical Systems

Programming and Prototyping Adapters

Description	Recommended For Use With	Digi-Key Part No.	Price Each	Logical Systems Part No.
Programming Adapters				
8 Pin SOIC .150" Wide Socket to 8 Pin .300" Wide DIP Plug	PIC12(L)C508A, 509A; PIC12(L)CE518, 519	309-1045-ND	60.00	PA8SO1-03-3
8 Pin SOIC .150" Wide Socket to 8 Pin .600" Wide DIP Plug		309-1046-ND	60.00	PA8SO1-03-6
8 Pin SOIC .210" Wide Socket to 8 Pin .300" Wide DIP Plug	PIC12(L)C508A, 509A; PIC12(L)CE518, 519; PIC12C671, 672	309-1047-ND	70.00	PA8SO1-2006-3
8 Pin SOIC .210" Wide Socket to 8 Pin .600" Wide DIP Plug		309-1048-ND	70.00	PA8SO1-2006-6
14 Pin SOIC .150" Wide Socket to 14 Pin .300" Wide DIP Plug	PIC16C505	309-1000-ND	60.00	PA14SO1-03-3
14 Pin SOIC .150" Wide Socket to 14 Pin .600" Wide DIP Plug		309-1001-ND	60.00	PA14SO1-03-6
18 Pin SOIC .300" Wide Socket to 18 Pin .300" Wide DIP Plug	PIC16C52-58, 61, 554, 558, 621-625, 71, 710-717, F83, 84; PIC16HV510; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1010-ND	70.00	PA18SO1-08H-3
18 Pin SOIC .300" Wide Socket to 18 Pin .600" Wide DIP Plug		309-1011-ND	70.00	PA18SO1-08H-6
20 Pin SOIC .300" Wide Socket to 20 Pin .300" Wide DIP Plug	PIC16C770, 771	309-1012-ND	70.00	PA20SO1-08H-3
20 Pin SOIC .300" Wide Socket to 20 Pin .600" Wide DIP Plug		309-1013-ND	70.00	PA20SO1-08H-6
20 Pin SSOP Socket to 20 Pin .300" Wide DIP Plug		309-1014-ND	80.00	PA20SS-OT-3
20 Pin SSOP Socket to 18 Pin .600" Wide DIP Plug	PIC16C56(A), 58A(B), 554, 558, 620(A), 621, E623-E625, 710-717; PIC16HV540	309-1016-ND	80.00	PA20SS-P54
28 Pin SOIC .300" Wide Socket to 28 Pin .300" Wide DIP Plug	PIC14000; PIC16C55, 57, 62, 63, 66, 72, 73, 76, 642, 773, F872, F873, F876; PIC18C242, 252; Z86C(E)(L)30, 31, 33, 34, 35, 36, 83, 84; Z86233, 733	309-1023-ND	70.00	PA28SO1-08H-3
28 Pin SOIC .300" Wide Socket to 28 Pin .600" Wide DIP Plug		309-1024-ND	70.00	PA28SO1-08H-6
28 Pin SSOP Socket to 28 Pin .600" Wide DIP Plug	PIC14000, PIC16C62A(B), 63A, 72(A), 73B, 773, F872	309-1025-ND	80.00	PA28SS-OT-6
28 Pin SSOP Socket to 28 Pin .600" Wide DIP Plug	PIC16C55(A), 57(C)	309-1026-ND	80.00	PA28SS-P55
32 Pin PLCC Auto-Eject Socket to 28 Pin .600" Wide DIP Plug	AT27C(BV, LV) 512, 256, 128, 28BV64, 29C256, 28C17, 27C040	309-1089-ND	70.00	PA32-28
32 Pin PLCC Lidded ZIF Socket to 28 Pin .600" Wide DIP Plug		309-1090-ND	90.00	PA32-28Z
32 Pin PLCC Auto-Eject Socket to 32 Pin .600" Wide DIP Plug	AT27C010, 020, AT49F(BV,LV) 001, 002, 020, AT29C010, 020, 040A, 512	309-1091-ND	70.00	PA32-32
32 Pin PLCC Lidded ZIF Socket to 32 Pin .600" Wide DIP Plug		309-1092-ND	90.00	PA32-32Z
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug	AT89C51, 8051	309-1093-ND	115.00	PA51-44
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug		309-1094-ND	135.00	PA51-44Z
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug	AT27C1024, 2048, 4096	309-1095-ND	115.00	PA280-44
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug		309-1096-ND	135.00	PA280-44Z
44 Pin PQFP Socket to 40 Pin .600" Wide DIP Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1002-ND	165.00	PA16C64-QD-16
44 Pin TQFP Socket to 40 Pin .600" Wide DIP Plug		309-1003-ND	165.00	PA16C64-QD-03
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug	PIC17C42(A), 43, 44	309-1007-ND	135.00	PA17C42-PDZ
44 Pin TQFP Socket to 40 Pin .600" Wide DIP Plug		309-1008-ND	165.00	PA17C42-QD-03
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug	PIC16C64A, 65A(B), 67, 662, 74A (B), 774, 77, F874, F877	309-1039-ND	115.00	PA44-40-P64-PD
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug		309-1040-ND	135.00	PA44-40-P64-PDZ
DIP to PLCC Prototyping Adapters				
Emulator Adapter, 40 Pin DIP ZIF Socket to 44 Pin PLCC Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1031-ND	145.00	PA40-44-P64-DP
Emulator Adapter, 40 Pin DIP Socket to 44 Pin PLCC Plug		309-1032-ND	125.00	PA40-44-P64-DP-PP
PLCC to PLCC Prototyping Adapter				
44 Pin PLCC Auto-eject Socket to 44 Pin PLCC Plug. 1:1 Pinout	Z86C(E)21, 40, 43, 743, 44, 45, 46, 61	309-1041-ND	145.00	PA44-PP
44 Pin PLCC Lidded ZIF Socket to 44 Pin PLCC Plug. 1:1 Pinout		309-1042-ND	165.00	PA44-PZP
QFP to QFP Prototyping Adapters				
44 Pin TQFP Socket to 44 Pin Solder Down QFP Plug. 1:1 Pinout	N/A	309-1043-ND	360.00	PA44QF03-44QF
DIP to SO-Plug Prototyping Adapter Kits				
8 Pin .300" DIP Board. Two 8 Pin .250" SOIC Plugs	PIC12(L)C508A, 509A, DE518, CE519	309-1050-ND	19.60	PADSO-0803-D250-08/2
8 Pin .300" DIP Board. Two 8 Pin .310" SOIC Plugs	PIC12(L)C508A, 509A, CE518, CE519, 671, 672	309-1051-ND	19.60	PADSO-0803-D310-08/2
18 Pin .300" DIP Board with ZIF Socket. Two 18 Pin .420" SOIC Plugs	710-717, F83, F84(A), HV540; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1059-ND	38.60	PADSO1803Z-D420-18/2
28 Pin .300" DIP Board. Two 28 Pin .420" SOIC Plugs	PIC14000, PIC16C55(A), 57(C), 62A(B), 57(C), 62A(B), 63(A), 66,	309-1065-ND	33.60	PADSO-2803-D420-28/2
SOIC to SOIC Prototyping Adapters				
18 Pin SOIC .300" Socket to 18 Pin SOIC Connector	PIC16C52, 54(A)(C), 56(A), 58A(B), 61, 554, 558, 621, 620(A), CE623-CE625, 71, 710-717, F83, F84(A), HV540; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1075-ND*	70.00	PA-SOD-2808-18
28 Pin SOIC .300" Socket to 28 Pin SOIC Connector	PIC14000, PIC16C55(A), 57(C), 62A(B), 63(A), 66, 72(A), 73A(B), 76, 642, 773, F872-F876; PIC18C242, 252, Z86C(E)(L)30, 31, 33, 34, 35, 36, 83, 84; Z86233, 733	309-1073-ND*	70.00	PA-SOD-2808-28

* Require SO-Plugs which must be ordered separately.

Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
Additional DIP Boards			
28 Pin .300" DIP Board	309-1064-ND	24.00	PA-DSO-2803

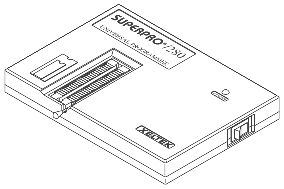
Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
Additional SO-Plugs			
18 Pin .420" Plugs (6 pieces)	309-1081-ND	22.80	PA-SOF-D420-18/6
28 Pin .420" Plugs (6 pieces)	309-1083-ND	28.80	PA-SOF-D420-28/6

XELTEK

Superpro 280 Advanced Universal Programmer

Features:

• Supports 5000+ Devices Including: E(E)PROM, FLASH, Microcontroller and PLD • High speed CPU generates more accurate and reliable algorithm timing • Very high programming speed • Auto Sense-and-Run, Batch Command and Auto Serial Number generation improve production efficiency • Programmable I/O level support low voltage devices down to 1.8V • Device insertion and Pin Contact Check, protect chips from damage • Supports Windows 2000/NT, Windows 98/95 • Windows XP compatible • Connect to PC (desktop and notebook) via printer port • Test standard logic devices and SRAM



View device list at www.xeltek.com

Specifications: • AC Adapter: Input AC 220V or 110V; Output DC 12V/ 1.5A

Dimensions: 7.87" x 5.51" x .945" (200mm x 140mm x 24mm)

Weight: 4lbs. (1.81kg)

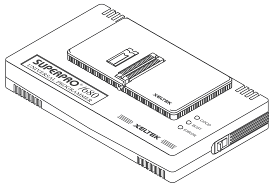
Description	Digi-Key Part No.	Price Each	Xeltek Part No.
High Performance Universal Programmer 48-Pin	415-1001-ND	449.00	SUPERPRO280

Superpro 680 High Performance Universal Programmer

Designed for High End User

Features:

• Supports 8000+ Devices E(E)PROM, FLASH, BPROM, Micros, Classic PLD, EPLD, CPLD • High Speed CPU generates more accurate and reliable algorithm timing • 48-pin ZIF socket with universal pin-drivers. Expandable to 100-pins with the PEP600 Expansion Pack • Interface with LAPTOP, PC, PS/2 or compatible through printer port • Test TTL/CMOS logic IC's and Dynamic/Static Random Access Memory devices • Device insertion and poor-pin-contact check • Supports Windows 2000/NT, Windows 98/95 • Windows XP compatible • Supports 1.8V low voltage devices



View device list at www.xeltek.com

System Requirements:

486 Pentium PC or laptop, Parallel port LPT1 or 2, MS Windows 9x, NT or 200, CD Rom Drive, 20 MBYTES of spare hard-drive space, color graphic adapter or monitor. Power Consumption is 12V 2 Amps.

Contents: 48-pin ZIF socket adapter, cable (DB-25 one-one 3' long), programmer, manual, software included.

Dimensions: 11.3" x 6.8" x 1.7" (287.02mm x 172.72mm x 43.18mm)

Weight: 5lbs. (2.27kg)

Description	Digi-Key Part No.	Price Each	Xeltek Part No.
High Performance Universal Programmer 48-Pin	415-1002-ND	895.00	SUPERPRO680
Socket Expander 100-Pin (for Superpro 680)	415-1003-ND	155.00	PEP600

XELTEK

Superpro Z Universal Programmer

Entry Level Programmer with Basic Support

Features:

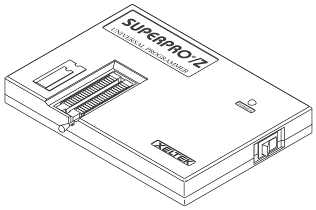
- Entry Level Programmer
- Printer Port Interface, parallel communication
- Easy interface to LAPTOP, PC PS/2 or compatible
- Mouse support, user friendly menu driven software interface
- High speed programming
- Supported by: Windows 95, 98, 2000, NT, ME and XP

Supports 2000+ Devices Including:

Most E(E)PROM, Series E(E)PROM, Flash, Gal, EP3xxx/6xxx/9xxx, PEEL, PALCE, PLUS, PLS, PLH, PLC, ATV, ATF, CPL, 85Cxxx, 5Cxxx, and DS12xx. Many PICMicro and Atmel Microcontrollers
View device list at www.xeltek.com

Functions Include:

• **File:** Load and save file in binary, Intel (extended) hex, Motorola S of Tektronics (extended) hex format. Multi load, format conversion, relocation • **DOS shell:** change directory, print, quit • **Buffer:** HEX-ASCII Edit, Fuse Map EDIT, Checksum, Swap, Vector table edit • **Select:** Bidirectional search device by device name or by manufacturer name • **Device:** Blank check, read, program, verify, security, fuse, erase, Word format select, and functions related to specific devices • **Test:** TTL/CMOS, Memory, Vector, Test pattern edit, Audio Identify TT/CMOS Device • **Others:** Macro, Options, Environments



Hardware and Electrical Specifications:

Device Socket: One 40-pin ZIF socket

Programmer Dimensions: 7.75" x 5.5" x .75" (196.85mm x 139.70mm x 19.05mm)

Power Supply:

- Input: AC 100 to 240V
- Output: DC 12V/1.5A

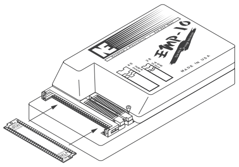
Weight: 4lbs. (1.81kg)

Description	Digi-Key Part No.	Price Each	Xeltek Part No.
Universal Programmer 40-Pin	415-1000-ND	249.00	SUPERPROZ

Needham's Electronics

EMP-10 Programmer

Programs: EPROMS, Gals, Microcontrollers, Flash, EEPROMS



The EMP-10 from Needham's is one of a kind. Versatile and compact with its speed and ease of programming make it untouchable by the competition.

• Very fast programming • Supports Intel Hex, Mots, Jedec Binary, ASCII Formats • Easy to read menus with mouse or cursor control • Contains full screen editor with search and fill entry in Hex, Binary or ASCII • Free software upgrades and 1 year warranty • Programming voltages and algorithms automatically loaded

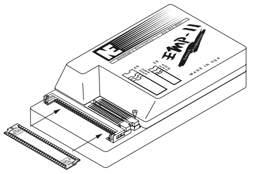
EMP-10 comes complete with 3 "Family Modules". Each module supports a group of devices. The "Family Modules" allow for rerouting VCC, VPP and ground, when changing to different device groups. The "Family Modules" are simple to snap in and each module supports two device groups. The concept of "Family Modules" provides support for a wide variety of devices. Needham's will be able to provide future support as new devices become available for a minimal cost to the customer.

System Requirements: PC with 512K memory, 1 standard parallel I/O port. MS DOS 2.11 or greater and a standard Centronix 36 pin parallel cable.
Software, power supply and literature included with the EMP-10. • Dimensions: 4.6" x 7.75" x 1.65" (116.84mm x 196.85mm x 41.91mm) • EPROMS: 2716 through 27C080, 27C210 through 27C240 • Flash: 28F256A through 28F020, 29C256-040 • Gal: 22V10, 22V10B • Micros: C51, C51FX, 8751, 87C751, PIC16C5X EEPROMS, 89C5X

EMP-10-ND.. **$219.95 each**

EMP-11 Programmer

Programs: EPROMS, FLASH, 8051-style micros, Microchip PICs, GALs



The EMP-11 is a low-cost, true low-voltage support, Windows™ based programmer that supports more than 1400 devices. The native 32-bit Windows™ software allows "drag and drop" file loading, window positioning/sizing, along with graphical display of splits and sets. Devices with special features such as block locking, encryption tables, and reset polarity are supported. The file formats supported include Binary, JEDEC, Intel Hex, Motorola S, TekHex, and POF. Modular device and file formats allow for easier updates along with specialized (proprietary) file formats. Configuration data for multiple projects with custom programming tasks can be stored in "session files" for quick retrieval. Full communications error detection and correction in conjunction with device ID checking ensures reliable programming.

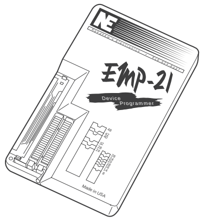
Contents: EMP-11 Programmer: 40-pin ZIF Socket Module: 110 VAC Power Transformer: Family Modules: Parallel Port Cable: Software CD-ROM

System Requirements: IBM-Compatible PC (486+): Windows™ 95, 98, 2000, or ME: 55-75 Mb Free Space: Parallel Port

Description	Digi-Key Part No.	Price Each	Needham's Part No.
Device Programmer	EMP-11-ND	334.95	EMP-11
44-PSOP Adapter (uses TI socket #CSP044-29)	E11-PSOPA-29-ND	90.00	E11-PSOPA-29
48-TSOP Adapter (uses Wells socket #648-0482211)	E11-TSOPA-48-ND	125.00	E11-TPSOPA-48
44-PSOP Adapter (uses TI socket #CSP044-52)	E11-PSOPA-52-ND	90.00	E11-PSOPA-52
44-PSOP Adapter (uses Wells socket #652-G44)	E11-PSOPA-W-ND	90.00	E11-PSOPA-W

EMP-21 Programmer

Programs: EPROMS, Gals, Microcontrollers, PLD, Flash, EEPROMS, Serial EEPROMS and more.



The EMP-21 from Needham's is one of a kind. Versatile and compact with its speed and ease of programming make it untouchable by the competition.

• Windows software allows window positioning/sizing, along with graphical display of splits and sets • Devices with special features such as block locking, encryption tables, and reset polarity are supported • File formats supported include Binary, JEDEC, Intel Hex, Motorola S, TekHex, and POF • Modular device format with custom programming tasks can be stored in "session files" for quick retrieval • Full communications error detection and correction in conjunction with device ID checking ensures reliable programming

EMP-21 comes complete with 20 family modules. The "Family Modules" are easy to snap in and each module supports two groups of devices. The "Family Module" concept provides support for a wide variety of future devices, for a minimal cost to the customer.

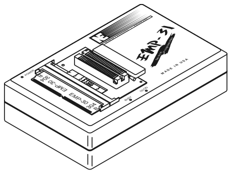
Contents:
Programmer; 48-pin ZIF Socket Module • 110 VAC Power Transformer • 20 Family Modules • USB Cable • Parallel Port Cable • Software CD-ROM

System Requirements:
IBM Compatible PC (486+) • Windows Operating System, 95, 98, 2000/XP or ME 55-75 • Mb Free Space • USB Port or Parallel Port

EMP-21-ND.. **$649.95 each**

EMP-31 Programmer

Programs: EPROMS, Gals, Microcontrollers, PLD, Flash, EEPROMS, Serial EEPROMS.



The EMP-31 is an advanced universal programmer that supports digital voltages from 1.8 Volts to 7 Volts and analog voltages (such as VCC) from 0 to 25 volts. The EMP-31 provides near-theoretical programming times for most devices currently available. The EMP-31 is the fastest, most reliable and most versatile programmer in the EMP line. It supports more device types with larger pin counts than the smaller units in the EMP line, and changing Family Modules is not required as often. The socket module on top of the EMP-31 is removable, allowing different modules to be plugged in to accommodate different device packages. This helps eliminate the confusion often caused by third party adapters. The EMP-31 comes standard with a 48-pin DIP Socket Module and thirteen Family Modules. The unit contains three microprocessors, and automatically performs self-test and calibration verification upon power-up.

EMP-31USB: Incorporates a USB interface to the PC in addition to the standard interface. Increases portability as well as simplicity.

Contents: EMP-31 Programmer: 48-pin ZIF Socket Module: 110 VAC Power Transformer: 13 Family Modules: Parallel Port Cable: Printed Manual/User's Guide (EMP-31USB also includes the USB interface and cable)

System Requirements: • Operating System: **USB:** IBM-Compatible PC, Windows 98SE, ME, 2000 or XP (for use of USB, with 16Mb of RAM). **Parallel Port:** IBM-Compatible PC, Windows 95 and above, with 16Mb of RAM • Hard Drive Space: At least 40Mb of free space • Interface: USB port, or a standard parallel port • Power: 12-16 Volts @ 2.5 Amp, AC or DC

No. of Pins	Description	Pkg. Type	Digi-Key Part No.	Price Each	Needham's Part No.
—	Universal Device Programmer	—	EMP-31-ND	995.00	EMP-31
—	Universal Device Programmer with USB Interface	—	EMP-31USB-ND *NEW!*	1099.95	EMP-31USB
20	Socket Module for EMP-30/31	PLCC	PLCC20-ND	105.00	PLCC20
32	Socket Module for EMP-30/31	PLCC	PLCC32-ND	105.00	PLCC32
44	Socket Module for EMP-30/31	PLCC	PLCC44-ND	105.00	PLCC44
52	Socket Module for EMP-30/31	PLCC	PLCC52-ND *NEW!*	125.00	PLCC52
48	Socket Module for EMP-30/31	TSOP	TSOP48-ND	125.00	TSOP48
56	Socket Module for EMP-30/31	TSOP	TSOP56-ND	125.00	TSOP56

XILINX Foundation Software Series

Foundation Series provides a complete, front-to-back environment for the design of Xilinx programmable logic devices — incorporating design entry (schematic and Abel HDL), synthesis, simulation, and FPGA/CPLD implementation tools. An emphasis on intuitive, easy to learn and use tools simplifies the task of creating programmable logic designs for both new and experienced users. Foundation F1.3 Standard and Express systems feature Xilinx's new M1 design implementation technology which delivers industry-leading device performance and utilization. The Foundation Express System incorporates advanced synthesis technology from Synopsys into the Foundation Standard System providing push-button and constraint driven synthesis for VHDL and Verilog.

Description	Digi-Key Part No.	Price Each	Xilinx Part No.
Foundation Series Base System (Low Density <8K gates) (Schematic Entry)	122-1181-ND	1090.00	DS-FND-BAS-PC

XC9500 In-System Programmable CPLDs (Complex Programmable Logic Devices)

The **XC9500 CPLD** family provides advanced in-system programming and test capabilities for high performance, general purpose logic integration. All devices are in-system programmable for a minimum of 10,000 program/erase cycles. Extensive IEEE 1149.1 (JTAG) boundary-scan support is also included on all family members. The XC9500 family is fully pin-compatible allowing easy design migration across multiple density options in a given package footprint. Advanced system features include output slew rate control and user programmable ground pins to help reduce system noise. I/Os may be configured for 3.3V or 5V operation. All outputs provide 24mA drive. The **FastFLASH XC9500XL** family is a 3.3V CPLD family targeted for high-performance, low-voltage applications. The XC9500XL architectural features address the requirements of in-system programmability. Extended data retention supports longer and more reliable system operating life. Advanced system features include output slew rate control and user-programmable ground pins to help reduce system noise. Each user pin is compatible with 5V, 3.3V, and 2.5V inputs, and the outputs may be configured for 3.3V or 2.5V operation. The XC9500XL device exhibits symmetric full 3.3V output voltage swing to allow balanced rise and fall times.

Package	Macro-cells	Usable Gates	Registers	System Frequency MHz (min)	Pin to Pin Delay Ns	I/O Pins	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
5 Volt											
44-VQFP	36	800	36	100	5	34	122-1254-ND	9.80	9.10	8.45	XC9536-5VQ44C
44-PLCC	36	800	36	100	6	34	122-1253-ND	9.80	9.10	8.45	XC9536-6PC44C
44-PLCC	36	800	36	83	7.5	34	122-1169-ND	4.30	4.00	3.70	XC9536-7PC44C
44-VQFP	36	800	36	83	7.5	34	122-1170-ND	4.30	4.00	3.70	XC9536-7VQ44C
44-PLCC	36	800	36	55	15	34	122-1167-ND	3.30	3.05	2.85	XC9536-15PC44C
44-VQFP	36	800	36	55	15	34	122-1168-ND	3.30	3.05	2.85	XC9536-15VQ44C
84-PLCC	72	1600	72	83	7.5	69	122-1262-ND	14.15	12.00	10.35	XC9572-7PC84C
100-PQFP	72	1600	72	83	7.5	72	122-1173-ND	24.50	20.70	17.91	XC9572-7PQ100C
84-PLCC	72	1600	72	66	10	69	122-1261-ND	8.75	7.40	6.40	XC9572-10PC84C
100-PQFP	72	1600	72	69	10	72	122-1174-ND	15.10	12.80	11.05	XC9572-10PQ100C
44-PLCC	72	1600	72	55	15	34	122-1171-ND	5.53	4.35	3.45	XC9572-15PC44C
84-PLCC	72	1600	72	55	15	69	122-1172-ND	6.10	5.15	4.45	XC9572-15PC84C
84-PLCC	108	2400	108	83	7.5	69	122-1176-ND	28.65	24.25	20.95	XC95108-7PC84C
84-PLCC	108	2400	108	83	7.5	69	122-1247-ND	32.95	27.90	24.10	XC95108-7PC84I
84-PLCC	108	2400	108	66	10	69	122-1245-ND	20.45	17.30	14.95	XC95108-10PC84C
100-PQFP	108	2400	108	69	10	81	122-1178-ND	26.20	22.15	19.15	XC95108-10PQ100C
84-PLCC	108	2400	108	55	15	69	122-1175-ND	12.10	10.25	8.85	XC95108-15PC84C
84-PLCC	108	2400	108	55	15	69	122-1246-ND	13.95	11.80	10.20	XC95108-15PC84I
100-TQFP	108	2400	108	55	15	81	122-1177-ND	15.50	13.10	11.35	XC95108-15TQ100C
100-PQFP	144	3200	144	66	10	81	122-1248-ND	28.75	24.30	21.00	XC95144-10PQ100C
100-TQFP	144	3200	144	55	15	81	122-1249-ND	17.11	14.48	12.51	XC95144-15TQ100C
3.3 Volt											
44-PLCC	36	800	36	178	5	34	122-1258-ND	2.18	1.75	1.60	XC9536XL-5PC44C
44-VQFP	36	800	36	178	5	34	122-1259-ND	2.18	1.75	1.60	XC9536XL-5VQ44C
44-PLCC	36	800	36	100	10	34	122-1255-ND	1.62	1.38	1.07	XC9536XL-10PC44C
44-VQFP	36	800	36	100	10	34	122-1256-ND	1.62	1.38	1.07	XC9536XL-10VQ44C
64-VQFP	36	800	36	100	10	52	122-1257-ND	1.82	1.54	1.15	XC9536XL-10VQ64C
44-PLCC	72	1600	72	178	5	34	122-1267-ND	5.64	4.40	4.13	XC9572XL-5PC44C
100-TQFP	72	1600	72	178	5	72	122-1268-ND	7.19	5.60	5.26	XC9572XL-5TQ100C
44-VQFP	72	1600	72	178	5	34	122-1269-ND	5.64	4.40	4.13	XC9572XL-5VQ44C
44-PLCC	72	1600	72	125	7.5	34	122-1270-ND	4.37	3.70	3.00	XC9572XL-7PC44C
100-TQFP	72	1600	72	125	7.5	72	122-1271-ND	5.46	4.62	3.75	XC9572XL-7TQ100C
44-PLCC	72	1600	72	100	10	34	122-1263-ND	3.09	2.62	2.04	XC9572XL-10PC44C
100-TQFP	72	1600	72	100	10	72	122-1264-ND	3.91	3.32	2.58	XC9572XL-10TQ100C
44-VQFP	72	1600	72	100	10	34	122-1265-ND	3.09	2.62	2.04	XC9572XL-10VQ44C
64-VQFP	72	1600	72	100	10	52	122-1266-ND	3.64	3.08	2.40	XC9572XL-10VQ64C
100-TQFP	144	3200	144	100	5	81	122-1250-ND	18.47	15.60	13.50	XC95144XL-5TQ100C
144-TQFP	144	3200	144	100	5	117	122-1251-ND	19.93	16.85	14.57	XC95144XL-5TQ144C
100-TQFP	144	3200	144	125	7.5	81	122-1252-ND	12.29	10.40	8.98	XC95144XL-7TQ100C

Virtex and Spartan Field Programmable Gate Arrays

The **Virtex FPGA** family delivers high performance, high capacity programmable logic solutions. Dramatic increases in silicon efficiency results from optimizing new architecture for place and route efficiency and exploiting an aggressive 5 layer metal 0.22 mm CMOS process. These advances make Virtex FPGAs powerful and flexible alternatives to mask programmed gate arrays. System performance up to 200 MHz - 66 MHz PCI Compliant-Hot swappable for Compact PCI. The **Virtex-E family** is up to 30% faster than the Virtex family. System performance up to 240 MHz using singled ended selectI/O technology. Virtex-E devices have up to 640 Kb of faster (250 MHz) block SelectRAM, but the individual RAMs are the same size and structure as in the Virtex family. Both Virtex Families are supported by FPGA Foundation™ and Alliance Development Systems.
The **Spartan™-II 2.5V** Field -Programmable Gate Array family gives users high performance, abundant logic resources, and a rich feature set, all at an exceptionally low price. System performance is supported up to 200 MHz. The **Spartan™-II 1.8V** Field Programmable Gate Array is similar to the Spartan-II family but operates at a lower voltage.

Package	Gates	#CLB	I/O Pins	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
Virtex Series									
256-BGA	57K	384	180	2.5	122-1212-ND	66.45	57.98	50.25	XCV50-5BG256C
240-PQFP	57K	384	166	2.5	122-1213-ND	66.45	57.98	50.25	XCV50-5PQ240C
240-PQFP	108K	600	166	2.5	122-1214-ND	125.00	108.68	94.19	XCV100-5PQ240C
Virtex-E Series									
240-PQFP	71K	384	158	1.8	122-1215-ND	52.05	46.50	40.30	XCV50E-7PQ240C
352-BGA	128K	600	196	1.8	122-1216-ND	60.45	54.00	46.80	XCV100E-6BG352C
240-PQFP	128K	600	158	1.8	122-1217-ND	55.40	49.50	42.90	XCV100E-6PQ240C
SPARTAN-II Series									
144-TQFP	15K	96	86	2.5	122-1218-ND	10.89	9.08	8.15	XC2S15-5TQ144C
100-VQFP	15K	96	60	2.5	122-1219-ND	9.45	7.88	7.10	XC2S15-5VQ100C
208-PQFP	30K	216	132	2.5	122-1220-ND	18.54	15.45	13.90	XC2S30-5PQ208C
144-TQFP	30K	216	92	2.5	122-1221-ND	15.39	12.83	11.55	XC2S30-5TQ144C
100-VQFP	30K	216	60	2.5	122-1222-ND	13.41	11.18	10.05	XC2S30-5VQ100C
256-FBGA	50K	384	176	2.5	122-1223-ND	22.23	18.53	16.65	XC2S50-5FG256C
208-PQFP	50K	384	140	2.5	122-1224-ND	19.71	16.43	14.75	XC2S50-5PQ208C
144-TQFP	50K	384	92	2.5	122-1225-ND	17.10	14.25	12.85	XC2S50-5TQ144C
256-FBGA	100K	600	176	2.5	122-1226-ND	32.85	27.38	24.65	XC2S100-5FG256C
456-FBGA	100K	600	196	2.5	122-1227-ND	41.31	34.43	31.00	XC2S100-5FG456C
208-PQFP	100K	600	140	2.5	122-1228-ND	26.10	21.75	19.56	XC2S100-5PQ208C
144-TQFP	100K	600	92	2.5	122-1229-ND	23.49	19.58	17.60	XC2S100-5TQ144C
256-FBGA	150K	864	176	2.5	122-1230-ND	36.00	30.00	27.00	XC2S150-5FG256C
456-FBGA	150K	864	260	2.5	122-1231-ND	46.80	39.00	35.10	XC2S150-5FG456C
208-PQFP	150K	864	140	2.5	122-1232-ND	28.80	24.00	21.60	XC2S150-5PQ208C
456-FBGA	200K	1176	284	2.5	122-1233-ND	52.20	43.50	39.11	XC2S200-5FG456C
208-PQFP	200K	1176	140	2.5	122-1234-ND	35.01	29.18	26.25	XC2S200-5PQ208C
SPARTAN-IIE Series									
144-TQFP	50K	384	102	1.8	122-1204-ND	12.65	11.65	11.16	XC2S50E-6TQ144C
208-PQFP	50K	384	146	1.8	122-1205-ND	14.55	13.35	12.84	XC2S50E-6PQ208C
144-TQFP	100K	600	102	1.8	122-1206-ND	17.25	15.90	15.24	XC2S100E-6TQ144C
208-PQFP	100K	600	146	1.8	122-1207-ND	19.15	17.60	16.92	XC2S100E-6PQ208C
256-FBGA	100K	600	182	1.8	122-1208-ND	24.20	22.25	21.36	XC2S100E-6FT256C
208-PQFP	200K	1176	146	1.8	122-1209-ND	25.15	23.15	22.20	XC2S200E-6PQ208C
456-FPGA	200K	1176	289	1.8	122-1210-ND	37.50	34.50	33.12	XC2S200E-6FG456C
208-PQFP	300K	1536	146	1.8	122-1211-ND	38.60	35.50	34.08	XC2S300E-6PQ208C

XILINX Programmable Gate Arrays

FPGA (Field Programmable Gate Arrays)

A Technical Overview:

Every Xilinx FPGA performs the function of a custom LSI circuit, like a gate array, but the Xilinx device is user-programmable and even reprogrammable in the system.

Xilinx sells standard off-the-shelf devices in many different sizes, speeds, operating temperature ranges, and packages.

The user selects the appropriate Xilinx device, and then converts the design idea or schematic into a configuration data file, using the Xilinx development system software and loads this file into the Xilinx FPGA.

XC3000/XC3100

• Replaces TTI, MSI, and other PLD logic • Toggle rates of 70 to 125 MHz, delays from 9 to 5.5 ns • Unlimited reprogrammability

XC3000A

• Five device types (1300-7500 gates) • 4-input look-up tables • Flip-flop toggle rate over 110MHz • No on-chip RAM, data storage limited to flip-flops • Use for medium speed, medium complexity applications

XC3100A

• Functionally and bitstream identical with XC3000A series • Five device types (1300-7500 gates) • 4-input look-up tables • No on-chip RAM, data storage limited to flip-flops • Use for high performance design, system clock up to 100MHz

XC4000/XC4000A

• Benefits of custom CMOS VLSI • Gate ranges from 2,000 to 20,000 • Unlimited reprogrammability

XC4000E

• Ten device types (2,000-25,000 gates) • Dedicated carry network • Function generator can be used as RAM • Use for general purpose logic and data-path logic

XC4000L

• Low voltage version of XC4000E devices (3.0-3.6V)

XC4000EX

• Larger version of the XC4000E family (28,000-125,000 gates) • Increased routing resources • Faster clocking options, more versatile output logic • Use for designs beyond 20,000 gate complexity

XC4000XL

• Low voltage version of the XC4000EX devices (3.0-3.6V)

XC5200

• Low cost FPGA • Dedicated carry structure (no RAM) • Four-input function generators • Use for general purpose logic and data-path logic

Package	Gates	#CLB	I/O Pins	Flip-Flops	Operating Voltage (V)	Digi-Key Part No.	Price Each			Xilinx Part No.
							1	25	100	
XC3000/XC3100 Series										
44-PLCC	3000	100	34	360	4.75V-5.25V	122-1011-ND	17.95	15.20	13.10	XC3030-100PC44C
84-PLCC	3000	100	74	360	4.75V-5.25V	122-1013-ND	19.00	16.10	13.90	XC3030-100PC84C
84-PLCC	4200	144	74	480	4.75V-5.25V	122-1020-ND	22.15	18.75	16.20	XC3042-100PC84C
100-PQFP	4200	144	82	480	4.75V-5.25V	122-1021-ND	24.60	20.80	18.00	XC3042-100PQ100C
XC3000A/XC3100A Series										
68-PLCC	2000	64	58	256	4.75V-5.25V	122-1009-ND	13.20	11.15	10.35	XC3020A-7PC68C
44-PLCC	3000	100	34	360	4.75V-5.25V	122-1017-ND	13.81	11.73	10.88	XC3030A-7PC44C
84-PLCC	3000	100	74	360	4.75V-5.25V	122-1018-ND	14.75	12.50	11.60	XC3030A-7PC84C
100-PQFP	3000	100	80	360	4.75V-5.25V	122-1019-ND	16.30	13.80	12.80	XC3030A-7PQ100C
84-PLCC	4200	144	74	480	4.75V-5.25V	122-1025-ND	19.20	16.25	15.10	XC3042A-7PC84C
100-PQFP	4200	144	82	480	4.75V-5.25V	122-1026-ND	21.10	17.85	16.60	XC3042A-7PQ100C
84-PLCC	6400	224	70	688	4.75V-5.25V	122-1029-ND	35.65	30.20	28.05	XC3064A-7PC84C
84-PLCC	2000	64	64	256	4.75V-5.25V	122-1038-ND	16.65	14.10	13.10	XC3120A-3PC84C
84-PLCC	3000	100	74	360	4.75V-5.25V	122-1040-ND	19.10	16.15	15.00	XC3130A-3PC84C
100-PQFP	3000	100	80	360	4.75V-5.25V	122-1041-ND	20.70	17.50	16.25	XC3130A-3PQ100C
100-PQFP	4200	144	82	480	4.75V-5.25V	122-1044-ND	25.80	21.80	20.26	XC3142A-3PQ100C
84-PLCC	9000	320	70	928	4.75V-5.25V	122-1046-ND	53.25	47.70	44.30	XC3190A-3PC84C
160-PQFP	9000	320	138	928	4.75V-5.25V	122-1047-ND	55.90	50.05	46.50	XC3190A-3PQ160C
100-PQFP	4200	144	82	480	4.75V-5.25V	122-1024-ND	29.30	24.80	21.40	XC3042-70PQ100C
144-TQFP	4500	224	120	688	4.75V-5.25V	122-1084-ND	37.60	31.85	29.55	XC3164A-3TQ144C
160-PQFP	7500	484	176	1320	4.75V-5.25V	122-1085-ND	76.25	68.26	63.41	XC3195A-3PQ160C
XC4000/XC4000A Series										
160-PQFP	5000	196	112	616	4.75V-5.25V	122-1050-ND	105.00	96.55	89.65	XC4005-5PQ160C
84-PLCC	3000	100	61	360	4.75V-5.25V	122-1066-ND	55.60	51.30	47.60	XC4003-6PC84C
84-PLCC	5000	196	61	616	4.75V-5.25V	122-1068-ND	96.05	88.55	82.25	XC4005-5PC84C
208-PQFP	8000	324	144	936	4.75V-5.25V	122-1070-ND	182.00	168.00	156.00	XC4008-5PQ208C
208-PQFP	10000	400	160	1120	4.75V-5.25V	122-1071-ND	236.00	218.00	202.00	XC4010-5PQ208C
XC4000E Series										
84-PLCC	3000	100	80	360	4.75V-5.25V	122-1086-ND	23.70	21.85	20.30	XC4003E-4PC84C
100-PQFP	3000	100	80	360	4.75V-5.25V	122-1087-ND	33.30	30.70	28.50	XC4003E-3PQ100C
84-PLCC	5000	196	112	616	4.75V-5.25V	122-1180-ND	26.65	24.75	23.00	XC4005E-4PC84C
100-PQFP	5000	196	112	616	4.75V-5.25V	122-1089-ND	53.35	49.20	45.65	XC4005E-3PQ100C
160-PQFP	5000	196	112	616	4.75V-5.25V	122-1090-ND	55.60	51.25	47.60	XC4005E-3PQ160C
160-PQFP	5000	196	112	616	4.75V-5.25V	122-1091-ND	42.75	39.45	36.61	XC4005E-4PQ160C
160-PQFP	6000	256	128	768	4.75V-5.25V	122-1092-ND	79.73	73.55	68.26	XC4006E-3PQ160C
160-PQFP	6000	256	128	768	4.75V-5.25V	122-1093-ND	61.40	56.65	52.61	XC4006E-4PQ160C
208-PQFP	6000	256	128	768	4.75V-5.25V	122-1094-ND	82.65	76.20	70.80	XC4006E-3PQ208C
208-PQFP	6000	256	128	768	4.75V-5.25V	122-1095-ND	63.60	58.65	54.45	XC4006E-4PQ208C
144-TQFP	6000	256	128	768	4.75V-5.25V	122-1096-ND	67.45	62.20	57.80	XC4006E-4TQ144C
160-PQFP	8000	324	144	936	4.75V-5.25V	122-1098-ND	72.25	66.65	61.90	XC4008E-4PQ160C
208-PQFP	8000	324	144	936	4.75V-5.25V	122-1099-ND	102.00	94.30	87.60	XC4008E-3PQ208C
208-PQFP	8000	324	144	936	4.75V-5.25V	122-1100-ND	78.70	72.55	67.36	XC4008E-4PQ208C
84-PLCC	10000	400	160	1120	4.75V-5.25V	122-1101-ND	81.10	75.30	70.00	XC4010E-3PC84C
84-PLCC	10000	400	160	1120	4.75V-5.25V	122-1102-ND	62.35	57.90	53.85	XC4010E-4PC84C
160-PQFP	10000	400	160	1120	4.75V-5.25V	122-1103-ND	109.00	101.00	93.36	XC4010E-3PQ160C
160-PQFP	10000	400	160	1120	4.75V-5.25V	122-1104-ND	83.85	77.35	71.81	XC4010E-4PQ160C
208-PQFP	10000	400	160	1120	4.75V-5.25V	122-1105-ND	176.00	162.01	150.00	XC4010E-2PQ208C
208-PQFP	10000	400	160	1120	4.75V-5.25V	122-1106-ND	130.00	120.01	111.00	XC4010E-3PQ208C
208-PQFP	10000	400	160	1120	4.75V-5.25V	122-1107-ND	100.00	92.31	85.70	XC4010E-4PQ208C
160-PQFP	13000	576	192	1536	4.75V-5.25V	122-1109-ND	102.00	94.40	87.80	XC4013E-4PQ160C
208-PQFP	13000	576	192	1536	4.75V-5.25V	122-1111-ND	223.00	207.01	193.00	XC4013E-2PQ208C
208-PQFP	13000	576	192	1536	4.75V-5.25V	122-1112-ND	165.00	153.01	143.01	XC4013E-3PQ208C
208-PQFP	13000	576	192	1536	4.75V-5.25V	122-1113-ND	127.00	118.00	110.00	XC4013E-4PQ208C

(Continued)

XILINX Programmable Gate Arrays *(Cont.)*

Package	Gates	#CLB	I/O Pins	Flip-Flops	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
XC4000E Series (Cont.)										
208-HQFP	20000	784	224	2016	4.75V-5.25V	122-1114-ND	286.00	266.01	247.01	XC4020E-2HQ208C
208-HQFP	20000	784	224	2016	4.75V-5.25V	122-1115-ND	212.00	197.01	183.01	XC4020E-3HQ208C
240-HQFP	20000	784	224	2016	4.75V-5.25V	122-1116-ND	444.00	410.00	380.00	XC4020E-2HQ240C
240-HQFP	20000	784	224	2016	4.75V-5.25V	122-1117-ND	329.00	303.00	282.00	XC4020E-3HQ240C
240-HQFP	25000	1024	256	2560	4.75V-5.25V	122-1118-ND	508.00	472.00	439.00	XC4025E-2HQ240C
240-HQFP	25000	1024	256	2560	4.75V-5.25V	122-1119-ND	376.00	349.01	325.01	XC4025E-2HQ240C
XC4000L Series										
84-PLCC	5000	196	112	616	3.0V-3.6V	122-1120-ND	29.50	27.40	25.45	XC4005L-5PC84C
100-PQFP	5000	196	112	616	3.0V-3.6V	122-1121-ND	45.75	42.15	39.15	XC4005L-5PQ100C
208-PQFP	5000	196	112	616	3.0V-3.6V	122-1122-ND	51.50	47.50	44.11	XC4005L-5PQ208C
84-PLCC	10000	400	160	1120	3.0V-3.6V	122-1123-ND	72.00	66.85	62.20	XC4010L-5PC84C
208-PQFP	13000	576	192	1536	3.0V-3.6V	122-1125-ND	169.00	157.00	146.00	XC4013L-5PQ208C
XC4000EX Series										
208-HQFP	28000	1024	256	2560	4.75V-5.25V	122-1127-ND	244.00	218.00	188.00	XC4028EX-3HQ208C
240-HQFP	36000	1296	288	3168	4.75V-5.25V	122-1128-ND	318.00	284.01	246.01	XC4036EX-3HQ240C
XC4000LX Series										
240-HQFP	36000	1296	288	3168	3.0V-3.6V	122-1129-ND	377.00	338.01	292.00	XC4036XL-1HQ240C
240-HQFP	36000	1296	288	3168	3.0V-3.6V	122-1130-ND	279.00	250.00	216.00	XC4036XL-2HQ240C
XC5200 Series										
84-PLCC	3000	64	84	256	4.75V-5.25V	122-1131-ND	10.15	8.60	7.40	XC5202-6PC84C
100-PQFP	3000	64	84	256	4.75V-5.25V	122-1132-ND	12.35	10.45	9.05	XC5202-6PQ100C
84-PLCC	6000	120	124	480	4.75V-5.25V	122-1133-ND	18.45	15.65	13.50	XC5204-6PC84C
100-PQFP	6000	120	124	480	4.75V-5.25V	122-1134-ND	16.88	15.75	15.00	XC5204-6PQ100C
160-PQFP	6000	120	124	480	4.75V-5.25V	122-1135-ND	24.20	20.50	17.70	XC5204-6PQ160C
144-TQFP	6000	120	124	480	4.75V-5.25V	122-1136-ND	25.30	21.40	18.51	XC5204-6TQ144C
100-VQFP	6000	120	124	480	4.75V-5.25V	122-1137-ND	21.45	18.15	15.65	XC5204-6VQ100C
84-PLCC	10000	196	148	784	4.75V-5.25V	122-1138-ND	37.90	32.05	27.70	XC5206-5PC84C
100-PQFP	10000	196	148	784	4.75V-5.25V	122-1139-ND	38.20	32.35	27.90	XC5206-6PQ100C
160-PQFP	10000	196	148	784	4.75V-5.25V	122-1140-ND	48.85	41.35	35.70	XC5206-5PQ160C
208-PQFP	10000	196	148	784	4.75V-5.25V	122-1142-ND	51.50	43.60	37.65	XC5206-5PQ208C
144-TQFP	10000	196	148	784	4.75V-5.25V	122-1143-ND	42.80	36.20	31.30	XC5206-5TQ144C
84-PLCC	16000	324	196	1296	4.75V-5.25V	122-1144-ND	54.40	46.05	39.75	XC5210-5PC84C
160-PQFP	16000	324	196	1296	4.75V-5.25V	122-1145-ND	92.75	78.45	67.76	XC5210-4PQ160C
160-PQFP	16000	324	196	1296	4.75V-5.25V	122-1146-ND	77.25	65.40	56.45	XC5210-5PQ160C
160-PQFP	16000	324	196	1296	4.75V-5.25V	122-1147-ND	67.20	56.85	49.10	XC5210-6PQ160C
240-PQFP	16000	324	196	1296	4.75V-5.25V	122-1151-ND	73.35	62.05	53.60	XC5210-6PQ240C
144-TQFP	16000	324	196	1296	4.75V-5.25V	122-1152-ND	62.95	53.25	46.00	XC5210-6TQ144C

Serial Configuration Proms for Field Programmable Gate Arrays

Package	Memory Size	Description	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
8-Dip	248K	Serial Configuration Prom	122-1272-ND	9.85	8.30	7.20	XC17S30PD8C
8-Dip	330K	3.3V Serial Configuration Prom	122-1273-ND	7.30	6.15	5.30	XC17S40XLPD8C
8-Dip	330K	Serial Configuration Prom	122-1275-ND	11.85	10.00	8.65	XC17S40PD8C
8-Dip	36K	Serial Configuration Prom	122-1187-ND	3.45	2.95	2.55	XC1736EPD8C
8-SOIC	36K	Serial Configuration Prom	122-1189-ND	4.15	3.50	3.05	XC1736ESO8C
8-SOIC	36K	Serial Configuration Prom	122-1192-ND	4.15	3.50	3.05	XC1736EVO8C
8-Dip	65K	Serial Configuration Prom	122-1188-ND	4.00	3.40	2.95	XC1765EPD8C
8-SOIC	65K	Serial Configuration Prom	122-1190-ND	4.80	4.05	3.50	XC1765ESO8C
8-SOIC	65K	Serial Configuration Prom	122-1193-ND	4.80	4.05	3.50	XC1765EVO8C
8-SOIC	65K	3V Serial Configuration Prom	122-1194-ND	5.45	4.60	4.00	XC1765ELVO8C
8-Dip	128K	Serial Configuration Prom	122-1191-ND	6.00	5.40	5.00	XC17128EPD8C
8-SOIC	128K	Serial Configuration Prom	122-1195-ND	6.90	6.20	5.75	XC17128EVO8C
8-SOIC	128K	3V Serial Configuration Prom	122-1196-ND	6.15	5.50	5.10	XC17128ELVO8C
20-PLCC	128K	Serial Configuration Prom	122-1197-ND	6.90	6.20	5.75	XC17128EJC20C
8-Dip	128K	3V Serial Configuration Prom	122-1198-ND	5.35	4.75	4.45	XC17128ELPD8C
8-Dip	256K	Serial Configuration Prom	122-1199-ND	11.45	10.25	9.50	XC17256EPD8C
8-SOIC	256K	Serial Configuration Prom	122-1200-ND	13.60	12.20	11.30	XC17256EVO8C

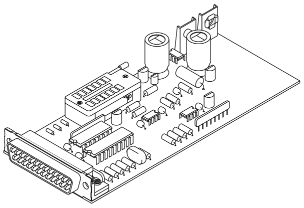
Package	Memory Size	Description	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
8-Dip	256K	3V Serial Configuration Prom	122-1201-ND	7.95	7.35	6.85	XC17256ELPD8C
8-SOIC	256K	3V Serial Configuration Prom	122-1202-ND	8.55	7.95	7.40	XC17256ELVO8C
20-PLCC	256K	Serial Configuration Prom	122-1203-ND	13.60	12.20	11.30	XC17256EPC20C
20-PLCC	256K	3.3V Serial Configuration Prom	122-1242-ND	11.55	10.75	10.00	XC18V256PC20C
20-SOIC	256K	3.3V Serial Configuration Prom	122-1243-ND	11.55	10.75	10.00	XC18V256SO20C
44-PQFP	256K	3.3V Serial Configuration Prom	122-1244-ND	12.25	11.35	10.55	XC18V256VQ44C
20-PLCC	512K	3.3V Serial Configuration Prom	122-1239-ND	16.40	13.85	11.95	XC18V512PC20C
20-SOIC	512K	3.3V Serial Configuration Prom	122-1240-ND	16.40	13.85	11.95	XC18V512SO20C
44-PQFP	512K	3.3V Serial Configuration Prom	122-1241-ND	16.40	13.85	11.95	XC18V512VQ44C
20-PLCC	1.0M	3.3V Serial Configuration Prom	122-1236-ND	20.00	16.95	14.65	XC18V01PC20C
20-SOIC	1.0M	3.3V Serial Configuration Prom	122-1237-ND	20.00	16.95	14.65	XC18V01SO20C
44-PQFP	1.0M	3.3V Serial Configuration Prom	122-1238-ND	20.00	16.95	14.65	XC18V01VQ44C
44-PLCC	2.0M	3.3V Serial Configuration Prom	122-1235-ND	23.10	21.45	19.95	XC18V02PC44C
44-PLCC	4.0M	3.3V Serial Configuration Prom	122-1274-ND	36.40	30.80	26.60	XC18V04PC44C

ROMAN-JONES, INC. Xilinx Serial PROM Programmer

The Xilinx Serial PROM Programmer provides a low cost alternative for programming any Xilinx XC17xx Family Serial PROM devices. The programmer product consists of an external programmer and associated interface software. The programmer and software have been tested and certified by Xilinx.

FEATURES:

• Parallel port interface which can be directly connected (if cable is desired - recommend M7PSG-2506J-ND) • Co-exists with printers using an A/B switchbox • No special interface cards required • Operates on 9 volt battery (not included, recommend P145-ND) • Supports ALL Xilinx Serial PROMs • Simple user interface. Easy to use software • Supported under DOS 2.2 or greater, Windows 95/98, and Windows NT 4.0 • Supports both Intel Hex and Binary files generated by Xilinx compilers • **Software not included. Requires downloading from www.roman-jones.com • Free updates also available via FTP download**



Description	Digi-Key Part No.	Price Each
Programmer		
SPROM Programmer with 8-Dip ZIF Socket	SPROM-TZS-ND	139.95
Adapters		
8-Pin Dip to 8-Pin SOIC/VOIC	SA1-ND	44.95
8-Pin Dip to 44-Pin VQFP	SA2-ND	95.95
8-Pin Dip to 20-Pin PLCC	SA3-ND	49.95
8-Pin Dip to 20-Pin SOIC	SA4-ND	54.95
8-Pin Dip to 44-Pin PLCC	SA5-ND	64.95

CPLDs (Complex Programmable Logic Devices)

Atmel offers a broad range of high-density, low-power, and cost-effective solutions enabling designers to create products that are "just what the market ordered." Based on a standard architecture, which uses industry standard development tools, Atmel's CPLDs offer the unique low-power or "L" feature while providing 100% connectivity. These devices are processed with Atmel's proprietary 0.65-micron processes and have a EEPROM memory.

The ATF750/C CPLDs are based on a 22V10-type architecture and provide market-leading capacity and flexibility in a 22V10 footprint with twice the registers and additional features for better logic utilization.

The ATF1500 Series is targeted at wider logic density, with higher number of I/O's. This family has devices from 44 to 160 pins, and 32 to 96 I/O's. High connectivity, and flexible architecture make these parts highly suitable for system design. In system programmability in the larger devices allow for reconfiguration even after the device is in the system.

Standard Development Tools

Atmel's philosophy is that designers should be able to use known development tools. Third-party design tools such as Synario™, ABEL™, CUPL™, PPLDesigner-XL™, LOG/iC™, and PLDSyn™ support Atmel's EPLDs. Also Atmel-specific versions of the popular Synario, ABEL, and CUPL design tools are offered. In addition, workstation support is available on popular platforms with Viewlogic, MINC, Cadence, Mentor, and Synopsys.

Voltage	ISP	Tpd (ns)	Registers	Macro-cells	Usable Gates	Power Option	Package Type	Digi-Key Part No.	Price Each			Atmel Part No.
									1	25	100	
ATF750 Series												
5.0	No	15	20	10	750	Standard	28-PLCC	ATF750C-15JC-ND	2.54	2.15	1.91	ATF750C-15JC
5.0	No	15	20	10	750	Standard	24-DIP	ATF750C-15PC-ND	2.54	2.15	1.91	ATF750C-15PC
5.0	No	15	20	10	750	Standard	24-SOIC	ATF750C-15SC-ND	2.54	2.15	1.91	ATF750C-15SC
5.0	No	15	20	10	750	Low	28-PLCC	ATF750CL-15JC-ND	2.90	2.43	2.16	ATF750CL-15JC
5.0	No	15	20	10	750	Low	24-DIP	ATF750CL-15PC-ND	2.80	2.34	2.09	ATF750CL-15PC
5.0	No	15	20	10	750	Low	24-SOIC	ATF750CL-15SC-ND	2.90	2.43	2.16	ATF750CL-15SC
ATF1500 Series												
5.0	No	10	32	32	1500	Standard	44-TQFP	ATF1500A-10AC-ND	5.14	4.07	3.67	ATF1500A-10AC
5.0	No	10	32	32	1500	Standard	44-PLCC	ATF1500A-10JC-ND	3.44	2.83	2.53	ATF1500A-10JC
2.7	No	15	32	32	1500	Standard	44-TQFP	ATF1500ABV-15AC-ND	3.66	2.99	2.67	ATF1500ABV-15AC
2.7	No	15	32	32	1500	Standard	44-PLCC	ATF1500ABV-15JC-ND	3.66	2.99	2.67	ATF1500ABV-15JC
5.0	Yes	10	32	32	1500	Standard	44-TQFP	ATF1502AS-10AC-ND	3.59	2.94	2.63	ATF1502AS-10AC44
5.0	Yes	10	32	32	1500	Standard	44-PLCC	ATF1502AS-10JC-ND	3.59	2.94	2.63	ATF1502AS-10JC44
5.0	Yes	10	64	64	3000	Standard	44-TQFP	ATF1504AS-10AC44-ND	4.52	3.62	3.25	ATF1504AS-10AC44
5.0	Yes	10	64	64	3000	Standard	44-PLCC	ATF1504AS-10JC44-ND	4.92	3.92	3.53	ATF1504AS-10JC44
5.0	Yes	10	64	64	3000	Standard	68-PLCC	ATF1504AS-10JC68-ND	6.94	5.37	4.86	ATF1504AS-10JC68
5.0	Yes	10	64	64	3000	Standard	84-PLCC	ATF1504AS-10JC84-ND	7.46	5.73	5.20	ATF1504AS-10JC84
5.0	Yes	10	64	64	3000	Standard	100-TQFP	ATF1504AS-10AC100-ND	7.01	5.41	4.91	ATF1504AS-10AC100
5.0	Yes	15	64	64	3000	Standard	100-TQFP	ATF1504AS-15AC100-ND	6.58	5.11	4.62	ATF1504AS-15AC100
5.0	Yes	10	64	64	3000	Standard	100-PQFP	ATF1504AS-10QC100-ND	9.52	7.18	6.54	ATF1504AS-10QC100
5.0	Yes	20	64	64	3000	Low	44-TQFP	ATF1504ASL-20AC44-ND	4.79	3.82	3.44	ATF1504ASL-20AC44
5.0	Yes	20	64	64	3000	Low	44-PLCC	ATF1504ASL-20JC44-ND	5.16	4.09	3.69	ATF1504ASL-20JC44
5.0	Yes	20	64	64	3000	Low	68-PLCC	ATF1504ASL-20JC68-ND	7.27	5.60	5.08	ATF1504ASL-20JC68
5.0	Yes	20	64	64	3000	Low	84-PLCC	ATF1504ASL-20JC84-ND	7.78	5.96	5.41	ATF1504ASL-20JC84
5.0	Yes	20	64	64	3000	Low	100-TQFP	ATF1504ASL20AC100-ND	7.33	5.64	5.12	ATF1504ASL-20AC100
5.0	Yes	20	64	64	3000	Low	100-PQFP	ATF1504ASL20QC100-ND	9.89	7.44	6.78	ATF1504ASL-20QC100
3.3	Yes	15	64	64	3000	Standard	44-TQFP	ATF1504ASV-15AC44-ND	4.79	3.82	3.44	ATF1504ASV-15AC44
3.3	Yes	15	64	64	3000	Standard	44-PLCC	ATF1504ASV-15JC44-ND	5.16	4.09	3.69	ATF1504ASV-15JC44
3.3	Yes	15	64	64	3000	Standard	68-PLCC	ATF1504ASV-15JC68-ND	7.27	5.60	5.08	ATF1504ASV-15JC68
3.3	Yes	15	64	64	3000	Standard	84-PLCC	ATF1504ASV-15JC84-ND	7.78	5.96	5.41	ATF1504ASV-15JC84
3.3	Yes	15	64	64	3000	Standard	100-TQFP	ATF1504ASV15AC100-ND	7.33	5.64	5.12	ATF1504ASV-15AC100
3.3	Yes	15	64	64	3000	Standard	100-PQFP	ATF1504ASV15QC100-ND	9.89	7.44	6.78	ATF1504ASV-15QC100
3.3	Yes	20	64	64	3000	Low	44-TQFP	ATF1504ASVL20AC44-ND	5.07	4.03	3.63	ATF1504ASVL-20AC44
3.3	Yes	20	64	64	3000	Low	44-PLCC	ATF1504ASVL20JC44-ND	5.42	4.28	3.86	ATF1504ASVL-20JC44
3.3	Yes	20	64	64	3000	Low	68-PLCC	ATF1504ASVL20JC68-ND	7.57	5.81	5.27	ATF1504ASVL-20JC68
3.3	Yes	20	64	64	3000	Low	84-PLCC	ATF1504ASVL20JC84-ND	8.13	6.20	5.64	ATF1504ASVL-20JC84
3.3	Yes	20	64	64	3000	Low	100-TQFP	ATF1504ASVL20AC10-ND	7.68	5.88	5.34	ATF1504ASVL-20AC100
5.0	Yes	10	128	128	6000	Standard	84-PLCC	ATF1508AS-10JC84-ND	18.51	13.31	12.22	ATF1508AS-10JC84
5.0	Yes	10	128	128	6000	Standard	100-TQFP	ATF1508AS-10AC100-ND	21.16	15.07	13.86	ATF1508AS-10AC100
5.0	Yes	10	128	128	6000	Standard	100-PQFP	ATF1508AS-10QC100-ND	22.83	16.19	14.90	ATF1508AS-10QC100
5.0	Yes	10	128	128	6000	Standard	160-PQFP	ATF1508AS-10QC160-ND	28.38	19.84	18.30	ATF1508AS-10QC160
5.0	Yes	20	128	128	6000	Low	84-PLCC	ATF1508ASL-20JC84-ND	9.78	7.36	6.71	ATF1508ASL-20JC84
5.0	Yes	20	128	128	6000	Low	100-TQFP	ATF1508ASL20AC100-ND	12.06	8.94	8.16	ATF1508ASL-20AC100
5.0	Yes	20	128	128	6000	Low	100-PQFP	ATF1508ASL20QC100-ND	13.37	9.83	9.00	ATF1508ASL-20QC100
5.0	Yes	20	128	128	6000	Low	160-PQFP	ATF1508ASL20QC160-ND	17.48	12.61	11.58	ATF1508ASL-20QC160
3.3	Yes	15	128	128	6000	Standard	84-PLCC	ATF1508ASV-15JC84-ND	12.34	9.13	8.34	ATF1508ASV-15JC84
3.3	Yes	15	128	128	6000	Standard	100-TQFP	ATF1508ASV15AC100-ND	14.60	10.67	9.77	ATF1508ASV-15AC100
3.3	Yes	15	128	128	6000	Standard	100-PQFP	ATF1508ASV15QC100-ND	15.89	11.54	10.58	ATF1508ASV-15QC100
3.3	Yes	15	128	128	6000	Standard	160-PQFP	ATF1508ASV15QC160-ND	19.91	14.24	13.09	ATF1508ASV-15QC160
3.3	Yes	20	128	128	6000	Low	100-TQFP	ATF1508ASVL20AC10-ND	14.60	10.67	9.77	ATF1508ASVL-20AC100
NEW! ATF2500 Series NEW!												
5	No	15	48	24	1500	Standard	44-PLCC	ATF2500C-15JC-ND	5.33	4.09	3.60	ATF2500C-15JC
5	No	15	48	24	1500	Standard	44-PLCC	ATF2500C-15JI-ND*	6.71	5.15	4.52	ATF2500C-15JI
5	No	20	48	24	1500	Standard	44-PLCC	ATF2500C-20JC-ND	4.69	3.60	3.17	ATF2500C-20JC
5	No	20	48	24	1500	Standard	44-PLCC	ATF2500C-20JI-ND*	5.89	4.51	3.97	ATF2500C-20JI
5	No	20	48	24	1500	Standard	40-DIP	ATF2500C-20PC-ND	4.69	3.60	3.17	ATF2500C-20PC
5	No	20	48	24	1500	Standard	40-DIP	ATF2500C-20PI-ND*	5.89	4.51	3.97	ATF2500C-20PI

* Industrial Temperature

ATF15xx-DK2 CPLD Development Kit

The ATF15xx-DK2 is a second generation low-cost development programmer kit for the designer who wishes to begin working with Atmel's ATF15xx family of industry standard pin-compatible Complex Programmable Logic Devices (CPLD) with Logic Doubling™. Like the original ATF15xx-DK, the "DK2" allows designers to design, synthesize, simulate, program and evaluate their designs using their choice of either free Atmel-WinCUPL™ design software or a 30-day free trial version of Atmel-ProChip Designer™ using any 84-pin ATF15xx device, such as those provided with the kit. In addition, the kit can be extended to be used to program all of the Atmel ATF15xx Family with different packages by simply adding the package adapters (only PLCC84 is included in the kit). Once the design is completed, the designer can install a sample ATF15xx Family device in the provided PCB and program it using the built-in In-System-Programmable (ISP) industry-standard 4-pin JTAG interface, ATMISP software, and PC parallel port cable provided. The tutorial included takes the designer through the complete CPLD development process. All software runs on PC Windows™ platforms. In addition, mounting holes are provided to add wire-wrap terminals for all pins to allow comprehensive proto-typing and evaluation. The ATF15xx-DK2 includes everything a designer needs to get started with Atmel-Logic Doubling CPLDs including:

CPLD Demo Board/Programmer Board: • 84-lead PLCC Adapter • ISP (JAT) Port • Wire-wrap Terminal Holes-all Pins • 2 MHz Crystal Oscillator • Eight 8-segment LED Displays • 5V and 3.3V Vcc operation • Easy access to CPLD I/O pins • Global Clear, Output Enable and Power Switches

Logic Doubling™ CPLDs: • ATF1508AS-15JC84 5V 128 Macrocell CPLD with ISP • ATF1508ASVL-20JC84 3.3V Low-power 128 Macrocell CPLD with ISP

CPLD Programmable Cable: • 5V and 3.3V ISP cable for PC parallel port with Vcc Auto Detection

Software CD: • Free Atmel-WinCUPL design software and User's Manual • 30-day Trial Version of Atmel-ProChip Designer™ software • Logic Doubling Support and Documentation • Logic Doubling Reference • Atmel Databook CD

Atmel-WinCUPL:

Design Entry: • CUPL • Compilation • WinSIM Functional Simulation • Atmel Proprietary Device Filters with Logic Doubling

Atmel-ProChip Designer:

Design Entry: • VHDL, Schematic, and CUPL • Synthesis • Functional Simulation • Atmel Proprietary Device Filters with Logic Doubling • Timing Simulation

ATF15XX-DK2-ND CPLD Development Kit **$99.00**

ATMEL FPGA's (Field Programmable Gate Arrays)

AT40K Series FPGAs

Atmel's AT40K Series coprocessor FPGAs range from 5K to 50K usable gates, and are designed for high density, compute-intensive DSP and other fast logic designs. The AT40K family solves the Logic vs. SRAM trade-off problem by providing fast, flexible, distributed 10ns FreeRAM™ without using valuable logic resources. Structured logic functions, including variable array multipliers can be implemented directly in core cells without using any bussing resources - providing dramatic improvements in speed, utilization, power and system cost.

The AT40K family has the ability to implement Cache Logic design, where part of the FPGA can be reprogrammed without loss of register data, while the remainder of the FPGA continues to operate without disruption. This is ideal for building adaptive filters, variable coefficient multipliers and other designs where the datapath can change to increase system performance.

All Atmel FPGAs can be designed using industry standard CAE tools for schematics, VHDL and Verilog on a PC, Sun, or HP workstation. Software tools are available on Atmel's website at: http://www.atmel.com/fpga_software.html

Features:

• Distributed, single/dual port 10ns SRAM, independent of logic cells • Up to 384 PCI compliant I/Os • Mixed 3V/5V capability • Architecture optimized for efficient, ultrafast array multipliers • Cache Logic® dynamic full/partial reconfigurability in-system • Eight global clocks • Efficient, industry-standard design tools, optimized for synthesis • QuickChange™ tools for adaptive hardware designs • Variety of surface mount packages • All devices in family are pin-compatible

Package Options	Usable Gates	Cells	Ram (Bits)	I/O (Max)	Speed (ns)	Vcc	Digi-Key Part No.	Price Each		
								1	25	100
84-PLCC	5K-10K	256	2,048	62	2	5.0	AT40K05-2AJC-ND	25.80	18.14	16.72
144-TQFP	5K-10K	256	2,048	114	2	5.0	AT40K05-2BQC-ND	28.92	20.19	18.63
208-PQFP	5K-10K	256	2,048	128	2	5.0	AT40K05-2DQC-ND	29.67	20.68	19.08
84-PLCC	5K-10K	256	2,048	62	3	3.3	AT40K05LV-3AJC-ND	17.20	12.43	11.40
144-TQFP	5K-10K	256	2,048	114	3	3.3	AT40K05LV-3BQC-ND	19.26	13.81	12.69
208-PQFP	5K-10K	256	2,048	128	3	3.3	AT40K05LV-3DQC-ND	19.78	14.16	13.01
84-PLCC	10K-20K	576	4,608	62	2	5.0	AT40K10-2AJC-ND	32.90	22.78	21.04
144-TQFP	10K-20K	576	4,608	114	2	5.0	AT40K10-2BQC-ND	28.23	19.41	17.95
208-PQFP	10K-20K	576	4,608	161	2	5.0	AT40K10-2DQC-ND	37.84	25.98	24.02
84-PLCC	10K-20K	576	4,608	62	3	3.3	AT40K10LV-3AJC-ND	25.80	18.14	16.72
144-TQFP	10K-20K	576	4,608	114	3	3.3	AT40K10LV-3BQC-ND	28.90	20.17	18.61
208-PQFP	10K-20K	576	4,608	161	3	3.3	AT40K10LV-3DQC-ND	29.67	20.68	19.08
84-PLCC	20K-30K	1024	8,192	62	2	5.0	AT40K20-2AJC-ND	58.48	39.12	36.29
144-TQFP	20K-30K	1024	8,192	114	2	5.0	AT40K20-2BQC-ND	65.51	43.54	40.41
208-PQFP	20K-30K	1024	8,192	161	2	5.0	AT40K20-2DQC-ND	67.25	44.63	41.43
84-PLCC	20K-30K	1024	8,192	62	3	3.3	AT40K20LV-3AJC-ND	43.00	29.29	27.11
144-TQFP	20K-30K	1024	8,192	114	3	3.3	AT40K20LV-3BQC-ND	48.16	32.59	30.19
208-PQFP	20K-30K	1024	8,192	161	3	3.3	AT40K20LV-3DQC-ND	49.45	33.41	30.95
144-TQFP	40K-50K	2304	18,432	114	2	5.0	AT40K40-2BQC-ND	137.06	87.46	81.47
208-PQFP	40K-50K	2304	18,432	161	2	5.0	AT40K40-2DQC-ND	140.72	89.66	83.53
144-TQFP	40K-50K	2304	18,432	114	3	3.3	AT40K40LV-3BQC-ND	113.52	73.18	68.11
208-PQFP	40K-50K	2304	18,432	161	3	3.3	AT40K40LV-3DQC-ND	118.68	76.32	71.05

FPGA Configuration Memory In-System Reprogrammable Serial EEPROMs

The AT17 Series FPGA Configuration EEPROMs (Configurators) provide an easy-to-use, cost-effective configuration memory for Field Programmable Gate Arrays. It uses a simple serial-access procedure to configure one or more FPGA devices. The organization supplies enough memory to configure one or multiple smaller FPGAs. The Configurators can be programmed with industry-standard programmers or Atmel's ATDH2200E Programming System.

Features: • EE Reprogrammable Serial Memories Designed to Store Configuration Programs for Field Programmable Gate Arrays (FPGAs) • In-System Programmable via 2-wire Bus • Simple Interface to SRAM FPGAs • Compatible with Atmel AT6000, AT40K FPGAs, Altera FLEX® Devices, ORCA® FPGAs, Xilinx XC3000, XC4000, XC5200, Spartan®, Virtex® FPGAs • Cascadable Read Back to Support Additional Configurations or Future Higher-density Arrays • Low-power CMOS EEPROM Process • Programmable Reset Polarity • Available in PLCC Package (Pin Compatible Across Product Family) • Emulation of Atmel's AT24CXXX Serial EEPROMs • Available in 3.3V ± 10% LV and 5V ± 5% C Versions • System-friendly READY Pin • Low-power Standby Mode

Package Options	Memory Size	Vcc	Digi-Key Part No.	Price Each		
				1	25	100
8-SOIC	65Kbit	5.0	AT17C65-10NI-ND	7.95	5.47	4.96
8-SOIC	65Kbit	5.0	AT17C65-10NC-ND	6.60	4.46	4.03
8-LAP	64Kbit	5.0	AT17C65-10CC-ND	5.57	3.70	3.33
8-SOIC	64Kbit	3.3	AT17LV65-10SI-ND	10.64	7.96	7.26
8-SOIC	64Kbit	3.3	AT17LV65-10SC-ND	8.51	6.47	5.89
8-DIP	64Kbit	3.3	AT17LV65-10PI-ND	8.06	6.16	5.59
8-DIP	64Kbit	3.3	AT17LV65-10PC-ND	5.16	4.09	3.69
8-SOIC	64Kbit	3.3	AT17LV65-10NI-ND	8.51	6.47	5.89
8-SOIC	64Kbit	3.3	AT17LV65-10NC-ND	6.82	5.28	4.78
8-LAP	64Kbit	3.3	AT17LV65-10CI-ND	6.97	5.38	4.88
8-LAP	64Kbit	3.3	AT17LV65-10CC-ND	5.55	4.37	3.94
20-PLCC	64Kbit	3.3	AT17LV65-10JI-ND	9.68	7.29	6.64
20-PLCC	64Kbit	3.3	AT17LV65-10JC-ND	6.19	4.83	4.37
8-SOIC	128Kbit	5.0	AT17C128-10NI-ND	11.83	8.45	7.71
8-SOIC	128Kbit	5.0	AT17C128-10NC-ND	9.78	6.87	6.25
8-LAP	128Kbit	5.0	AT17C128-10CC-ND	8.23	5.69	5.16
20-PLCC	128Kbit	5.0	AT17C128-10JC-ND	9.03	6.29	5.72
8-SOIC	128Kbit	3.3	AT17LV128-10SI-ND	17.03	12.31	11.30
8-SOIC	128Kbit	3.3	AT17LV128-10SC-ND	13.63	10.01	9.16
8-DIP	128Kbit	3.3	AT17LV128-10PI-ND	12.90	9.51	8.70
8-DIP	128Kbit	3.3	AT17LV128-10PC-ND	8.26	6.29	5.72
8-SOIC	128Kbit	3.3	AT17LV128-10NI-ND	13.63	10.01	9.16
8-SOIC	128Kbit	3.3	AT17LV128-10NC-ND	10.90	8.14	7.42
8-LAP	128Kbit	3.3	AT17LV128-10CI-ND	11.14	8.30	7.58
8-LAP	128Kbit	3.3	AT17LV128-10CC-ND	8.88	6.73	6.12
20-PLCC	128Kbit	3.3	AT17LV128-10JI-ND	15.48	11.27	10.33
20-PLCC	128Kbit	3.3	AT17LV128-10JC-ND	9.91	7.45	6.79
8-SOIC	256Kbit	5.0	AT17C256-10NI-ND	21.52	16.10	14.82
8-SOIC	256Kbit	3.3	AT17LV256-10SI-ND	34.06	23.53	21.74
8-SOIC	256Kbit	3.3	AT17LV256-10SC-ND	27.24	19.09	17.60
8-DIP	256Kbit	3.3	AT17LV256-10PI-ND	25.80	18.14	16.72
8-DIP	256Kbit	3.3	AT17LV256-10PC-ND	16.51	11.96	10.97
8-SOIC	256Kbit	3.3	AT17LV256-10NI-ND	27.24	19.09	17.60
8-SOIC	256Kbit	3.3	AT17LV256-10NC-ND	21.80	15.50	14.26

Package Options	Memory Size	Vcc	Digi-Key Part No.	Price Each		
				1	25	100
8-LAP	256Kbit	3.3	AT17LV256-10CI-ND	22.30	15.83	14.57
8-LAP	256Kbit	3.3	AT17LV256-10CC-ND	17.76	12.80	11.75
20-PLCC	256Kbit	3.3	AT17LV256-10JI-ND	30.96	21.52	19.87
20-PLCC	256Kbit	3.3	AT17LV256-10JC-ND	19.82	14.18	13.04
8-LAP	512Kbit	5.0	AT17C512-10CC-ND	18.00	13.29	12.21
8-DIP	512Kbit	3.3	AT17LV512-10PI-ND	31.37	21.79	20.11
8-DIP	512Kbit	3.3	AT17LV512-10PC-ND	25.09	17.68	16.29
8-LAP	512Kbit	3.3	AT17LV512-10CI-ND	27.09	18.99	17.51
8-LAP	512Kbit	3.3	AT17LV512-10CC-ND	21.59	15.36	14.13
20-PLCC	512Kbit	3.3	AT17LV512-10JI-ND	37.65	25.85	23.91
20-PLCC	512Kbit	3.3	AT17LV512-10JC-ND	24.08	17.01	15.67
8-DIP	1-Mbit	5.0	AT17C010-10PC-ND	26.40	20.02	18.47
8-LAP	1-Mbit	5.0	AT17C010-10CC-ND	23.12	17.38	16.01
8-DIP	1-Mbit	3.3	AT17LV010-10PI-ND	43.00	29.29	27.11
8-DIP	1-Mbit	3.3	AT17LV010-10PC-ND	34.40	23.76	21.95
8-LAP	1-Mbit	3.3	AT17LV010-10CI-ND	37.15	25.54	23.61
8-LAP	1-Mbit	3.3	AT17LV010-10CC-ND	29.58	20.62	19.03
20-PLCC	1-Mbit	3.3	AT17LV010-10JI-ND	51.60	34.77	32.23
20-PLCC	1-Mbit	3.3	AT17LV010-10JC-ND	33.02	22.86	21.12
32-TQFP	1-Mbit	3.3	AT17LV010A-10QI-ND	21.52	15.31	14.09
8-LAP	2-Mbit	5.0	AT17C002-10CC-ND	31.33	24.01	22.18
20-PLCC	2-Mbit	5.0	AT17C002-10JC-ND	35.27	27.21	25.17
8-LAP	2-Mbit	3.3	AT17LV002-10CI-ND	43.41	29.56	27.36
8-LAP	2-Mbit	3.3	AT17LV002-10CC-ND	34.79	24.01	22.18
20-PLCC	2-Mbit	3.3	AT17LV002-10JI-ND	49.71	33.57	31.11
20-PLCC	2-Mbit	3.3	AT17LV002-10JC-ND	39.75	27.21	25.17
44-PLCC	2-Mbit	3.3	AT17LV002-10BJI-ND	49.71	33.57	31.11
44-PLCC	2-Mbit	3.3	AT17LV002-10BJC-ND	39.75	27.21	25.17
44-TQFP	2-Mbit	3.3	AT17LV002-10TQI-ND	49.71	33.57	31.11
44-TQFP	2-Mbit	3.3	AT17LV002-10TQC-ND	39.75	27.21	25.17
20-PLCC	2-Mbit	3.3	AT17LV020-10JI-ND	61.92	41.29	38.31
20-PLCC	2-Mbit	3.3	AT17LV020-10JC-ND	47.47	32.15	29.78
44-PLCC	4-Mbit	3.3	AT17LV040-10BJC-ND	58.48	39.12	36.29

FPGA Configurator Programming Kit (Enhanced) ATDH2200E

Atmel offers a low cost development kit for the designer who wishes to begin working with the AT17 Series of ISP FPGA configuration memories. The kit allows designers to read, write and in-system program any of Atmel's AT17 series family members directly from a PC. All standard file input formats produced by the various FPGA vendors are supported. The AT17 series devices can be programmed directly on the programming board or the board can be used to facilitate in-system programming of the AT17 series devices in the target application (cable provided). The ATDH2200E supports all Atmel AT17 series configuration memories.

Features:

Hardware:

• Supports Programming of all AT17C/LV Series Devices • Connection to Allow In-System Prog. (ISP) • 5.0V or 3.0V Supply

Software:

• CPS - Configurator Programming System • GUI-based Interface • Supports Win95/Win98/WinNT • Online Help • Supports Programming Reset Polarity • Verification Routines to Validate Programming • Accepts HEX, MCS, POF, RBF and BST File Formats

System Contents:

• ATDH2200 Programming Board • ATDH2222 20-pin PLCC Adapter • CPS Software • ATDH2200E Datasheet • ATDH2200E Programming Kit User Guide • Standard (PC Printer Port) Parallel Cable • 10-pin Ribbon Cable for ISP • 9V DC, 200 mA, 2.1 mm Center Positive Power Supply • Sample AT17C/LV Devices

ATDH2200E-ND FPGA Configurator Program Kit **$350.00**

AT91 ARM Thumb Microcontrollers

The best combination of low-power consumption, 32-bit performance and 16-bit system cost.

The AT91 series provides the optimal combination of processing power, peripherals and memory blocks for demanding real-time applications that require high performance on a tight power budget. They utilize the ARM7DTMI 32-bit RISC processor core, an industry leader in MIPS/Watt. Its wide range of Real Time Operating Systems and sophisticated application development tools minimize the risk and time taken to bring new applications to the market.

Features: • Optimal combination of large SRAM, ROM and Flash memories • Wide choice of on-chip peripherals • 3-stage instruction execution pipeline for high instruction throughout • Single-cycle memory access through EBI • Hardware multiplier-plus-barrel shifter gives DSP capability • PDC channels (on-chip DMA) free the processor for the application • Advanced power management provides idle mode and disables unused peripherals • Low-latency Advanced Interrupt Controller • Banked registers provide separate stacks and call/returns in interrupt modes • Wide choice of Real Time Operating Systems for ease of development of real-time applications • Extensive application development tools for rapid, low-risk software development • Widely used in embedded GPS systems, hand-held communications devices, wireless networking, industrial automation

AT91 ARM Thumb Evaluation Kit

The Evaluation Kits are complete low-cost evaluation platforms, which enable real-time code development and exploration of the AT91 ARM Thumb microcontrollers. The kits include:

• Sample microcontroller • Evaluation Board with the Angel debug monitor • AT91 Getting Started CD-ROM with data sheets and examples • DB9 serial cable • 2.1mm power jack (power supply not included) • Evaluation copies of compilers and debuggers from Green Hills and ARM • SRAM • Flash • 2 Serial ports • Reset button and controller • Push buttons • LEDs • 20-pin JTAG ICE interface connector • Voltage regulation • Clock generator • Board self-test program • Angel debug monitor • Current consumption measurement capability • Expansion slots for add-on cards with user specific memories and peripherals

AT91EB40-ND	Evaluation Kit for the AT91 40 Series	**$320.35**
AT91EB63-ND	Evaluation Kit for the AT91 63 and 43 Series	**$250.00**
AT91MEC01-ND	Memory Extension Card for EB40 and EB63	**$300.00**
AT91EB40A-ND	Evaluation Kit for the AT91R40008	**$198.00**
AT91EB55-ND	Evaluation Kit for the AT91M55800A	**$250.00**
AT91EB42-ND	Evaluation Kit for the AT91M42800A	**$250.00**

SRAM (Bytes)	Flash (Bytes)	I/O Pins	Multi-processor I/F	16-Bit Timers	SPI	USART	PDC Channels	VCC Core (V)	VCC I/O (V)	RTC	OSC & PLL	10-bit A/D	10-bit D/A	Speed	Pkg.	Digi-Key Part No.	Price Each 1	25	100	Evaluation Kits Digi-Key Part No.	Price Each
8K	—	81	—	3	—	2	4	1.8-3.6	1.8-3.6	N	N	—	—	33MHz	100-TQFP	AT91M40800-33AI-ND	12.79	9.33	8.55	AT91EB40-ND	320.35
136K	—	81	—	3	—	2	4	1.8-3.6	1.8-3.6	N	N	—	—	33MHz	100-TQFP	AT91R40807-33AI-ND	31.50	18.61	17.58		
256K	—	81	—	3	—	2	4	1.65-1.95	2.7-3.6	N	N	—	—	66MHz	100-TQFP	AT91R40008-66AI-ND	22.04	15.66	14.41	AT91EB40A-ND	198.00
8K	2M	85	—	3	—	2	4	2.7-3.6	2.7-3.6	N	N	—	—	33MHz	120-BGA	AT91F40816-33CI-ND	43.00	29.29	27.11	AT91EB40-ND*	320.35
3K	—	115	—	6	1	3	8	1.8-3.6	2.7-5.5	N	N	—	—	25MHz	144-BGA	AT91M43300-25CI-ND	19.57	14.01	12.88	AT91EB63-ND	250.00
3K	—	144	1	6	1	3	8	1.8-3.6	2.7-5.5	N	N	—	—	25MHz	176-TQFP	AT91M63200-25AI-ND	19.57	14.01	12.88		
8K	—	108	—	6	2	2	8	2.7-3.6	2.5-5.5	Y	Y	—	—	33MHz	144-TQFP	AT91M42800A-33AI-ND	18.47	13.28	12.20	AT91EB42-ND	250.00
8K	—	108	—	6	2	2	8	2.7-3.6	2.7-5.5	Y	Y	—	—	33MHz	144-BGA	AT91M42800A-33CI-ND	20.19	14.43	13.26		
8K	—	147	—	6	1	3	8	2.7-3.6	2.5-5.5	Y	Y	8	2	33MHz	176-TQFP	AT91M55800A-33AI-ND	20.81	14.84	13.65	AT91EB55-ND	250.00
8K	—	147	—	6	1	3	8	2.7-3.6	2.7-5.5	Y	Y	8	2	33MHz	176-BGA	AT91M55800A-33CI-ND	22.96	16.27	14.98		

* Need to use Memory Extension Card (AT91MEC01-ND)

NOTE: Operating Temperature: -40° C to 85°C

SPLDs (PAL Compatible 16V8, 20V8, 22V10)

Atmel SPLDs are products based on the classic PAL architecture and consist of the popular industry standard 16V8, 20V8, and 22V10 in different speed, package, and power specifications. Supported by a wide variety of development tools, these variations offer features such as quarter-power, low standby power, and zero (<25µA) standby power. Atmel's family of Flash-based electrically erasable devices combine proven high-performance and low-power technologies.

(V)	Tpd (ns)	Reg.	Macro-Cells	Usable Gates	Power Option	Package Type	Digi-Key Part No.	Price Each 1	25	100
5.0	10	8	8	150	Std	20-PLCC	ATF16V8B-10JC-ND	1.40	1.26	1.10
						20-Dip	ATF16V8B-10PC-ND	1.40	1.26	1.10
						20-SOIC	ATF16V8B-10SC-ND	1.40	1.26	1.10
5.0	10	8	8	150	Quarter	20-PLCC	ATF16V8BQ-10JC-ND	2.15	1.85	1.64
						20-Dip	ATF16V8BQ-10PC-ND	2.15	1.85	1.64
5.0	15	8	8	150	Qtr & Low	20-PLCC	ATF16V8BQL-15JC-ND	1.12	1.04	.90
						20-Dip	ATF16V8BQL-15PC-ND	1.12	1.04	.90
						20-SOIC	ATF16V8BQL-15SC-ND	1.12	1.04	.90
5.0	15	8	8	150	Std & Zero	20-PLCC	ATF16V8CZ-15JC-ND	2.49	2.12	1.88
						20-Dip	ATF16V8CZ-15PC-ND	2.49	2.12	1.88
						20-SOIC	ATF16V8CZ-15SC-ND	2.49	2.12	1.88
3.3	10	8	8	150	Std	20-PLCC	ATF16LV8C-10JC-ND	3.50	2.88	2.57
						20-PLCC	ATF16LV8C-10JI-ND	4.56	3.65	3.28
						20-Dip	ATF16LV8C-10PC-ND	3.50	2.88	2.57

(V)	Tpd (ns)	Reg.	Macro-Cells	Usable Gates	Power Option	Package Type	Digi-Key Part No.	Price Each 1	25	100
3.3	10	8	8	150	Std	20-SOIC	ATF16LV8C-10SC-ND	3.50	2.88	2.57
5.0	10	8	8	200	Std	28-PLCC	ATF20V8B-10JC-ND	2.26	1.93	1.71
						24-Dip	ATF20V8B-10PC-ND	2.26	1.93	1.71
						24-SOIC	ATF20V8B-10SC-ND	2.26	1.93	1.71
5.0	10	8	8	200	Qtr	28-PLCC	ATF20V8BQ-10JC-ND	3.89	3.16	2.83
						24-Dip	ATF20V8BQ-10PC-ND	3.89	3.16	2.83
5.0	10	10	10	350	Std	28-PLCC	ATF22V10C-10JC-ND	3.87	3.15	2.82
						24-Dip	ATF22V10C-10PC-ND	3.87	3.15	2.82
						24-SOIC	ATF22V10C-10SC-ND	3.87	3.15	2.82
5.0	15	10	10	350	Qtr	28-PLCC	ATF22V10CQ-15JC-ND	5.22	4.14	3.73
						24-Dip	ATF22V10CQ-15PC-ND	5.22	4.14	3.73
						24-SOIC	ATF22V10CQ-15SC-ND	5.22	4.14	3.73
5.0	20	10	10	350	Qtr & Zero	28-PLCC	ATF22V10CQZ-20JC-ND	3.40	2.80	2.50
						24-Dip	ATF22V10CQZ-20PC-ND	3.40	2.80	2.50
						24-SOIC	ATF22V10CQZ-20SC-ND	3.40	2.80	2.50
5.0	15	10	10	350	Std & Zero	28-PLCC	ATF22V10CZ-15JC-ND	5.16	4.09	3.69
						24-Dip	ATF22V10CZ-15PC-ND	5.16	4.09	3.69
						24-SOIC	ATF22V10CZ-15SC-ND	5.16	4.09	3.69
3.3	10	10	10	350	Std	28-PLCC	ATF22LV10C-10JC-ND	4.04	3.27	2.94
						24-Dip	ATF22LV10C-10PC-ND	4.04	3.27	2.94
						24-SOIC	ATF22LV10C-10SC-ND	4.04	3.27	2.94

FPSLIC — Field Programmable System Level Integrated Circuit

FPSLIC — FPGA + AVR in one Package!

The AT94K Series (FPSLIC family) is a combination of the popular Atmel AT40K series SRAM FPGAs and the high-performance Atmel AVR 8-bit RISC microcontroller with standard peripherals. Extensive data and instruction SRAM as well as device control and management logic are included on this monolithic device, fabricated on Atmel's 0.35µ five-layer metal CMOS process.

5,000 to 40,000 Gates of Patented SRAM-based AT40K FPGA with FreeRAM™: • 2K to 18.4K Bits of Distributed Single/Dual Port FPGA User SRAM • High-performance DSP Optimized FPGA Core Cell • Dynamically Reconfigurable In-System – FPGA Configuration Access. Available On-chip from AVR Microcontroller Core to Support Cache Logic ® Designs • Very Low Static and Dynamic Power Consumption – Ideal for Portable and Handheld Applications

Patented AVR Enhanced RISC Architecture: • 120+ Powerful Instructions • Most Single Clock Cycle Execution • High-performance Hardware Multiplier for DSP-based Systems • Approaching 1 MIPS per MHz Performance • C Code Optimized Architecture with 32 x 8 General-purpose Internal Registers • Low-power Idle, Power-save, and Power-down Modes • 100 µA Standby and Typical 2-3 mA per MHz Active

Up to 36K Bytes of Dynamically Allocated Instruction and Data SRAM: • Up to 16K x 16 Internal 15ns Instructions SRAM • Up to 16K x 8 Internal 15ns Data SRAM

AVR Fixed Peripherals: • Industry-standard 2-wire Serial Interface • Two Programmable Serial UARTs • Two 8-bit Timer/Counters with Separate Prescaler and PWM • One 16-bit Timer/Counter with Separate Prescaler, Compare, Capture Modes and Dual 8-, 9- or 10-bit PWM

Support for FPGA Custom Peripherals: • AVR Peripheral Control – 16 Decoded AVR Address Lines Directly Accessible to FPGA • FPGA Macro Library of Custom Peripherals

16 FPGA Supplied Internal Interrupts to AVR

Up to Four External Interrupts to AVR

8 Global FPGA Clocks: • Two FPGA Clocks Driven from AVR Logic • FPGA Global Clock Access Available from FPGA Core

Multiple Oscillator Circuits: • Programmable Watchdog Timer with On-chip Oscillator • Oscillator to AVR Internal Clock Circuit • Software-selectable Clock Frequency • Oscillator to Timer/Counter for Real-time Clock

Vcc: 3.0V to 3.6V

3.3V 33 MHz PCI Compliant FPGA I/O: • 20 mA Sink/Source High-performance I/O Structures • All FPGA I/O Individually Programmable

State-of-the-art Integrated PC-based Software Suite including Co-verification

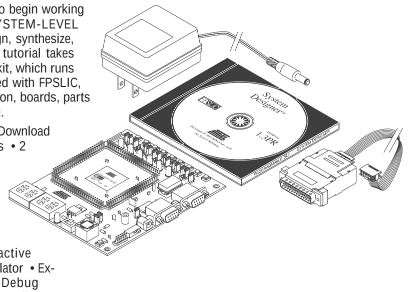
FPGA Gates	FPGA Core Cells	FPGA SRAM Bits	FPGA Reg-isters (Total)	Max. FPGA User I/O	AVR Programmable I/O Lines	Program SRAM Bytes	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100
40K	2304	18432	2862	84	16	20K-32K	Commercial	144-PQFP	AT94K40AL-25BQC-ND	44.00	42.00	40.00
40K	2304	18432	2862	120	16	20K-32K	Commercial	208-PQFP	AT94K40AL-25DQC-ND	47.00	44.00	42.00

ATSTK94 *FPSLIC* Starter Kit

The ATSTK94 is a low-cost development kit for the designer who wishes to begin working with Atmel's award-winning FPSLIC™ (FIELD PROGRAMMABLE SYSTEM-LEVEL INTEGRATION) AT94K family of devices. The kit allows designers to design, synthesize, simulate and program Atmel's new FPSLIC products. A comprehensive tutorial takes designers through the complete FPSLIC development process. The starter kit, which runs on PC Windows based platforms, includes everything needed to get started with FPSLIC, including all software, tutorials, hands on examples, complete documentation, boards, parts and cables. The kit consists of a starter kit board that includes the following.

Features: • ATK94K40 Device • AT17LV010 Device • ISP Port for Direct Download from PC • Push-button Switches and LEDs • 4 Alphanumerc LED Displays • 2 RS232 Transmit/Receive Ports • 18.432 MHz, 4 MHz and 32 kHz Clock Sources • Power Mgmt. Circuitry (9V Power Supply included) • Access to all FPSLIC Pins via Headers • Push-button Reset • Configurator Prog. Cable for AT17LV010 In-Syst. Prog. • The System Designer™ Software (4-Month License)

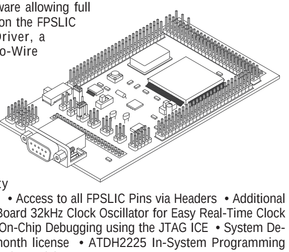
Software: • Full-featured Version of the FPSLIC Dev. Tool • Co-verification for Complete Hardware (VHDL/Verilog) or Software (C/ASM) Interactive Simulation • Comprehensive FPGA Tool Suite • ModelTech MTI HDL Simulator • Exemplar HDL Synthesis • AVR Studio Complete Development and Debug Environment • AVR Instruction Set Simulator (ISS) • 1-Month AVR C Compiler Evaluation License



ATSTK94-ND FPSLIC Starter Kit **$495.00**

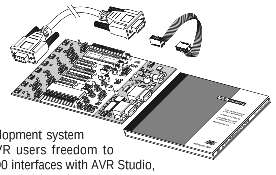
STK594 Development Kit

The kit allows designers to design, simulate, synthesize and program Atmel's FPSLIC devices. The STK594 includes hardware allowing full support for the new features found on the FPSLIC devices. An additional RS-232 Driver, a 32kHz Real-Time Clock and a Two-Wire Serial Interface are among the new features. The development kit includes everything needed to design with FPSLIC, including all hardware, software, a user guide and tutorials. The STK594 kit consists of a development kit board, which includes the following features: • STK500 Compatibility • AT94K10AL and AT17FS10 Devices • Access to all FPSLIC Pins via Headers • Additional RS-232 Driver and Connector • On-Board 32kHz Clock Oscillator for Easy Real-Time Clock implementations • JTAG Header for On-Chip Debugging using the JTAG ICE • System Designer Software Suite with a four-month license • ATDH2225 In-System Programming Cable • Comprehensive User Guide and Tutorial



ATSTK594-ND STK594 Development Kit **$99.00**

AVR® Flash Microcontroller Starter Kits



Atmel Starter Kits are complete evaluation platforms for taking your AVR design from conception to realization. They are the ideal method to get acquainted with the AVR microcontroller family, including the new analog devices.

STK500 Starter Kit

The ATSTK500 is a complete starter kit, programming tool and development system for Atmel's AVR Flash microcontrollers. The ATSTK500 gives AVR users freedom to develop and test complete AVR designs and prototypes. The ATSTK500 interfaces with AVR Studio, Atmel's Integrated Development Environment (IDE) for code writing and debugging. The STK500 supports the following Atmel AVR devices:

- ATTINY11
- AT90S2313
- AT90S4433
- ATMEGA163
- ATMEGA169
- ATTINY12
- AT90S2323
- AT90S4434
- AT90S1200
- ATTINY15
- AT90S2333
- AT90S8515
- AT90S4414
- ATTINY26
- AT90S2343
- AT90S8535
- ATMEGA161
- ATTINY28
- AT90S4414
- ATMEGA16
- ATMEGA103†
- AT90S1200
- ATMEGA8
- ATMEGA323
- ATMEGA128†

† In external target or with STK501. Devices do not fit into the sockets of STK500.

The ATSTK500 supports In-System Programming (ISP) of all AVR microcontrollers in the sockets as well as programming of external target systems. The AVR I/O ports are accessible on pin headers that can be used for connecting LEDs, push buttons, or external signals. The extra RS232 port can be connected to any of the I/O pins.

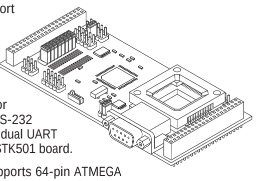
The ATSTK500 programming interface is integrated in AVR Studio. The Flash, EEPROM and all fuse options can be programmed individually or with the automatic programming option. The DOS programming software is included for efficient batch programming in a production environment. The ATSTK500 clock frequency and supply voltage is controlled from AVR Studio. The active simulator or emulator code in AVR Studio can easily be programmed into the ATSTK500 with a click of the mouse.

Features: • AVR Studio Compatible • RS232 Interface to PC for Programming and Control • Sockets for 8-pin, 20-pin, 28-pin and 40-pin AVR Devices • Parallel and Serial High-voltage Programming of AVR Parts • Serial In-System Programming (ISP) of AVR Parts • In-System Programmer for Programming AVR Parts in External Target System • Reprogramming of AVR Parts • 8 Push Buttons for General Use • 8 LEDs for General Use • All AVR I/O Ports Easily Accessible through Pin Header Connectors • Additional RS232 Port for General Use • Expansion Connectors for Plug-in Modules and Prototyping Area • On-board 2-Mbit DataFlash for Nonvolatile Data Storage • Regulated Power Supple

Note: Requires a 10V-15V DC 500mA (min.) power source such as the Digi-Key T506-ND wall transformer.

ATSTK500-ND	AVR® Programmer Starter Kit	**$79.00**

AVR® STK501 Expansion Board



The STK501 board is an expansion module designed to add 64-pin support to the Atmel STK500 Development Board. The STK500 and STK501 expansion module extends support to all current AVR devices.

The STK501 includes connectors, jumpers and hardware allowing full support for the new features on the 64-pin devices. The Zero Insertion Force (ZIF) socket allows easy use of TQFP packages. In addition to providing support for new devices, the STK501 also adds support for peripherals previously not supported by the STK500. An additional RS-232 driver and an SRAM interface are among the new features. Devices with dual UART or XRAM interface can thus take advantage of the new resources on the STK501 board.

Features: • AVR Studio Software Interface • STK500 Compatible • Supports 64-pin ATMEGA Devices • Supports ISP and High-Voltage Programming • Zero Insertion Force Socket for TQFP Packages • TQFP Footprint for Emulator Adapters • JTAG Connector for On-Chip Debugging Using the JTAG ICE • Additional RS-232 Driver and Connector • Adds XRAM Support to the STK500 Board for Devices with XRAM Interface • On-Board 32kHz Clock Oscillator for Easy RTC Implementations

ATSTK501-ND	STK501 Expansion Board	**$79.00**

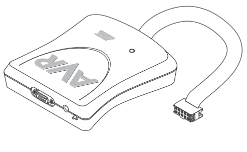
STK502 Development Board

The STK502 board is a top module designed to add ATMEGA169 support to the STK500 development board from Atmel Corporation. The STK502 board also includes a demonstration application, and comes with two application notes, "AVR064: STK502 - A Temperature Monitoring System with LCD Output" and "AVR065: LCD Driver for the STK502". These application notes explain how to use the different modules in the device. Included in the kit is a pre-programmed ATMEGA169. Insert the device in the ZIF socket and the demonstration application will start immediately.

Features:
• Supports the ATMEGA169 with Built-in LCD Controller • LCD-on-glass Display for demonstrating the ATMEGA169 LCD Controller • Supported by AVR Studio 4 • Zero Insertion Force Socket for TQFP packages • High Voltage Parallel Programming • Serial Programming • TQFP Footprint for Emulator Adapters • Port Extension Connectors for Port E, F, and G • LCD Display Header for using an External LCD Display • LCD and other Peripherals can be disconnected from the device • JTAG Connector for On-chip Debugging using JTAG ICE • On-board 32kHz Crystal for Easy Real Time Clock implementations • Temperature Sensor for the demo application • Quick Reference to all switches and jumpers in the Silk-Screen of the PCB • Pre-programmed ATMEGA169 with Demonstration Application. Includes C-code. Examples for all Major Peripherals on the ATMEGA169 Device - The Way to Get Going with your ATMEGA169

ATSTK502-ND	STK502 Development Board	**$99.00**

AVR® ISP In-System Programmer



The Atmel AVR ISP is an In-System Programmer for Atmel's AVR Flash Microcontrollers.

The AVR ISP gives the designer a compact and reliable programming tool to program all In-System Programmable AVR microcontrollers through a 6 or 10-pin ISP connector.

The AVR ISP uses AVR Studio, Atmel's Integrated Development Environment (IDE) for code writing and debugging.

The programming software can be controlled from both a Windows® environment and a DOS command-line interface.

The AVR ISP supports every AVR except the ATTINY11 and ATTINY28.

Features: • AVR Studio Interface • ISP Programming of all In-System Programmable AVR Devices • Programs both Flash and EEPROM • Supports Fuse and Lock Bit Programming • Supports RC Oscillator Calibration • Upgradeable to Support Future Devices • Operates at Voltages from 2.7V to 5.5V • Adjustable Speed • Supports all Target Boards Running at a Speed Higher than 8kHz • RS-232 Interface • Powered from Target. No need for Additional Power Supply

ATAVRISP-ND	AVR® 8-Bit RISC In-System Programmer	**$29.00**

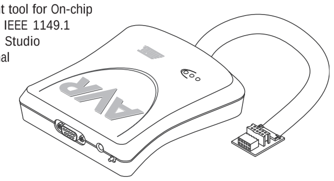
AVR® Embedded Internet Toolkit

The AVR Embedded Internet Toolkit is a complete hardware and software solution and reference platform that gives designers the ability to add Internet access capability to low cost embedded applications. Included in the kit is a megaAVR microcontroller, dedicated hardware and all required software protocols for connection to the Internet, including a full TCP/IP stack. For applications not needing the highest transfer speed, like industrial and home automation applications, the Embedded Internet Toolkit offers a low cost, easy to use solution. No additional licensing is needed once the kit is purchased.

Features: • Full TCP/IP Support • HTTP1.1 Enables Direct Web Browser Access • FTP for up and downloading files from anywhere on the Internet • SMTP Support for Sending Mail • DHCP for automatic network configuration • ARP, UDP, ICMP Protocol Support • File system for accessing files in Flash Memory • Ethernet Interface to Crystal CS8900 Ethernet Controller • 128K Bytes AVR On-chip Flash Memory for Application Program • Low Level Ethernet Interface Drivers • Up to 1MB External Flash Memory for Web Pages and Data Storage • Example Applications for Controlling External Equipment • Web Server Examples • Modular C-code Allows Easy Update and Changes • Windows® Configuration Software included • Quick Start Guide for immediate Internet access • Complete documentation of API to all Protocols

AT90EIT1-ND	Embedded Internet Toolkit	**$299.00**

AVR® JTAG ICE On-chip Debug System



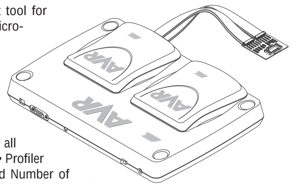
The AVR JTAG ICE from Atmel is a powerful development tool for On-chip debugging of all AVR 8-bit RISC microcontrollers with IEEE 1149.1 compliant JTAG interface. The JTAG ICE and the AVR Studio user interface give the user complete control of the internal resources of the microcontroller, helping to reduce development time by making debugging easier. The JTAG ICE performs real-time emulation of the microcontroller while it is running in a target system. The JTAG ICE provides emulation capability at a fraction of the cost of traditional emulators.

The JTAG ICE includes the following features:

• Interfaces with AVR Studio Version 3.52 or Newer • Emulates all On-chip Functions, both Digital and Analog • Supports Break on Change of Program Memory Flow • RS-232 Interface to PC • Supports Data and Program Memory Breakpoints • Supports C and Assembler Source Level Debugging • Supports In-System Programming via the JTAG Interface • Directly Powered from Target Board or External Power Supply for 9 – 15V DC Power • Kit also Provides Serial Cable Atmel CD ROM

ATJTAGICE-ND	JTAG On-Chip Debug System	**$299.00**

AVR® ICE50 and ICE40 In-Circuit Emulator



The **AVR ICE50** from Atmel is a top-of-the-line development tool for complete In-Circuit Emulation of all new AVR® 8-bit RISC microcontrollers. The ICE50 and the AVR Studio 4 user interface give the user complete control of the internal resources of the microcontroller, helping to reduce development time by making debugging easier. The ICE50 performs real-time emulation of the microcontroller while running in a target system.

The ICE50 includes the following features:

• Interfaces with AVR Studio Version 4 or Newer • Emulates all Digital and Analog Functions • Trace Buffer (128K x 144 Bits) • Profiler • RS-232 Interface to PC • USB Interface to PC • Unlimited Number of Program Memory Breakpoints • Real Time Data Breakpoints • Supports C and Assembler Source Level Debugging • Real Time Memory Acess • Full Target Frequency Range for All Supported Devices • Real Time Complex Breakpoints • 2.2-5.5V Operating Voltage

The AVR ICE50 In-Circuit Emulator supports the following Atmel AVR devices:

- ATMEGA128
- ATMEGA169
- ATMEGA64
- ATMEGA8535
- ATMEGA32
- ATMEGA8515
- ATMEGA16
- ATMEGA8
- ATMEGA161
- ATTINY26
- ATMEGA162

The **AVR ICE40** is a low cost solution for hardware software integration and just like the chips, has room to grow. The ICE40 with AVR Studio user interface provides the designer complete control of the internal resources of the TINY26 and MEGA8 Microcontroller, which helps reduce development time by making debugging easier. The TINY26 and MEGA8 are cost effective, highly integrated AVR Microcontrollers with integrated A/D capability and migration road map.

The ICE40 includes the following features:

• Operated by AVR Studio • Emulates all Analog and Digital Functions • Support for ASM and High-level Languages • Unlimited Number of Program Breakpoints • Built-in Trace Buffer (128K x 144 Bits) • Same user interface for all AVR development tools • Accurate emulation of TINY26 and MEGA8 over entire voltage and speed range • Debug in language of choice • Simplifies debugging of large programs • Identification of hard to find failures

The AVR ICE40 In-Circuit Emulator supports the following Atmel AVR devices: • TINY26 • MEGA8

ATICE50-ND	In-Circuit Emulator	**$3500.00**
ATICE40-ND *NEW!*	In-Circuit Emulator	**$995.00**

AVR® ATICE200 – Low Cost In-Circuit Emulator

The AVR ICE200 is a real-time In-Circuit Emulator based on a highly integrated AVR emulator chip. The ICE200 speeds up the co-development of software and hardware for the AVR 8-bit RISC.

The ICE200 emulator interfaces with AVR Studio, Atmel's Integrated Development Environment (IDE) for code writing and debugging.

The AVR ICE200 has all the advanced features that give the user complete control of the AVR microcontroller, combined with an intuitive user interface in AVR Studio. This makes the AVR ICE200 the perfect tool to develop applications for AVR 8-bit RISC microcontrollers.

The ICE200 emulates all the powerful features of the AVR 8-bit RISC microcontroller. It gives read/write access to all AVR resources such as Flash memory, EEPROM, Register file, I/O locations, Program Counter, internal and external SRAM.

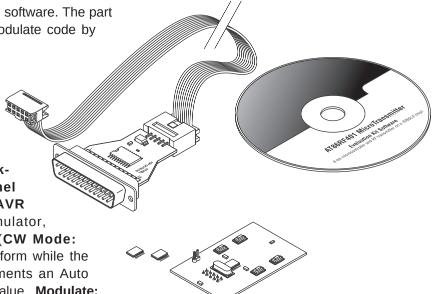
The AVR ICE200 In-Circuit Emulator supports the following Atmel AVR devices:

- ATTINY11
- AT90LS2333
- AT90LS4434
- ATTINY12
- AT90S4414
- AT90S8515
- AT90S1200
- AT90S4433
- AT90S8535
- AT90S2313
- AT90LS4433
- AT90LS8535
- AT90S2333
- AT90S4434

Features: • Emulates All On-Chip Functions • Real-time Operation • Symbolic Debugging Support • Unlimited Number of Breakpoints • Includes Personality Adapters for 8-pin, 20-pin, 28-pin and 40-pin AVR devices • Non-intrusive Operation • Electrical Characteristic Identical with Real Device • Supports Assembler and C Source Level Debugging • Automatic Configuration System • 2.7V to 5.5V Operating Voltage • Low Noise Due to Special Emulator Chip Close to Target Application • Software Upgradable from AVR Studio

ATICE200-ND	AVR® 8-Bit RISC In-Circuit Emulator	**$99.00**
ATADAP200-ND	ICE200 Adapter Replacement Kit	**$35.00**
ATPOD200-ND	ICE200 POD Replacement with Cable	**$65.00**

AT86RF401U-EKI 315MHz Evaluation Tool

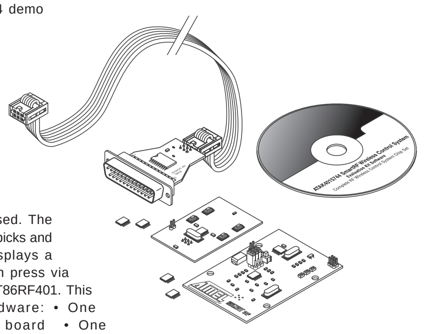


The AT86RF401 demo transmitter board has been preprogrammed with the CW Mode software. The part can be reprogrammed with the Modulate code by use of the Atmel ISP Device Programmer or the AT86RF401 SPI Controller.

This kit includes the following: • One AT86RF401 demo transmitter board • Two AT86RF401 parts • One CDROM which contains: **IAR Embedded Workbench:** software compiler, **Atmel ISP:** part programmer, **Atmel AVR Studio:** software debugger/simulator, **AT86RF401 demo software:** (**CW Mode:** Transmits a continuous RD waveform while the device button is pressed. Implements an Auto Tune routine for the VCO Tuning Value., **Modulate:** Transmits a modulated RF waveform (default 20.5KHz) while the device button is pressed. Implements an Auto Tune routine for the VCO Tuning Value., **401tx:** Transmits a different pattern depending on which button is pressed. Implements an Auto Tune routine for the VCO Tuning Value., **Library:** A library of simple routines., **IAR Includes:** Include files for the IAR assembler.), **AT86RF401 SPI Controller:** Allows development and evaluation of the AT86RF401 without the need of writing code. Also includes means of loading the program memory. See the AT86RF401 SPI Controller.doc for more information., **AT86RF401.pdf:** Product specification, **ISP.doc:** Instructions for using Atmel ISP, **IAR.doc:** Instructions for using IAR Embedded Workbench, **AT86RF401 Issues.xls:** A summary of known issues and workarounds.

AT86RF401U-EK1-ND	AT86RF401U-EKI 315 MHz Evaluation Tool	**$199.00**

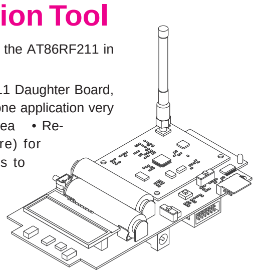
ATAK4015744 Evaluation Tools



The ATAK4015744 demo transmitter board has been preprogrammed with the ATAK4015744 (TX code) software. The ATAK4015744 demo receiver board has been preprogrammed with the ATAK4015744 (RX code) software. These parts can be reprogrammed with any code by use of the AT86RF401 SPI Controller or Studio 4.0. The ATAK4015744 software demonstrates a complete one-way RF link. The ATAK4015744 demo transmitter board transmits a unique code for each button pressed. The ATAK4015744 demo receiver board picks and decodes the unique code and displays a binary representation of the button press via LED's. Decoding is done with the AT86RF401. This kit includes the following hardware: • One AT86RF401 demo transmitter board • One ATAK4015744 demo receiver/demodulation board • Two AT86RF401 parts • Two T5744 parts • One CDROM which contains the following software: **AT86RF401 SPI Controller**: Allows development and evaluation of the AT86RF401 without the need of writing code. Also includes means of loading the program memory. See the AT86RF401 SPI Controller.doc for more information., ATAK4015744 demo software: (**CW Mode:** Transmits a continuous RF waveform while the device button is pressed. Implements an Auto Tune routine for the VCO Tuning Value., **Modulate:** Transmits a modulated RF waveform (default 20.5KHz) while the device button is pressed. Implements an Auto Tune routine for the VCO Tuning Value., **401tx:** Transmits a different pattern depending on which button is pressed. Implements an Auto Tune routine for the VCO Tuning Value., **AT4015744 code:** Contains transmit and receive software for the AT4015744 evaluation hardware boards., **Library:** A library of simple routines., **IAR Includes:** Include files for the IAR Assembler.), **IAR Embedded Workbench:** Software compiler. See the IAR.doc: instructions for using IAR Embedded Workbench., **Atmel AVR Studio 4.0:** Assemble, debug, simulate, and program capability, **AT86RF401.pdf:** Product Specification, **T5744.pdf:** Product Specification, **ATAK4015744 Issues.xls:** A summary of known issues and workarounds.

ATAK4015744U-ND	ATAK4015744U 315MHz Evaluation Tool	**$279.00**
NEW! **ATAK4015744E-ND**	ATAK4015744E 433MHz Evaluation Kit	**$279.00**

AT86RF211 915MHz Evaluation Tool



The AT86RF211 Development Kit demonstrates the capability of the AT86RF211 in a real world application.

Included: • 2 Stand-alone devices, each including the AT86RF211 Daughter Board, antenna, AVR® motherboard plus all tools to build your stand-alone application very quickly: batteries, LCD, In System Programming, prototyping area • Remote light measurement demo • 1 Dongle (+ PC software) for immediate evaluation of RF performances and direct access to AT86RF211's registers • 1 CD-ROM including software functions (C-code), a User Guide, presentations • 3 Samples of AT86RF211

The RF daughter board is available as a separate item.

(Delivered with antenna and documentation).

AT86RF211DB915107-ND	Extra Daughter Board	**$129.00**
AT86RF211DK915107-ND	AT86RF211 Development Kit	**$699.00**

AT86RF211 Transceiver

The AT86RF211 (aka: TRX01) is a single chip transceiver dedicated to low power wireless applications, optimized for license free ISM band operations from 400 MHz to 930 MHz. Its flexibility and unique level of integration makes it a natural choice for any system related to telemetry, remote controls, alarms, radio modems, automatic meter reading, hand held terminals, high-tech toys The AT86RF211 makes bidirectional communications affordable for these applications: secured transmissions with hand-shake procedures, new features and services. The AT86RF211 can easily be configured to provide the optimal solution for your application: choice of external filters vs technical requirements (bandwidth, selectivity, immunity, range), software protocol (single channel, multiple channel, FHSS). The AT86RF211 is also well adapted to battery operated systems as it can be powered with only 2.4V. It also offers a "wake up" receiver feature, to save power by alerting the associated microcontroller only when a valid inquiry is detected.

Features:
• ISM bands from 400 MHz to 930 MHz • FSK modulation; fully integrated demodulator • Up to 14 dBm output power; 8 power levels digitally selectable • High sensitivity: -100 dBm @ 9600 bps • Data rate up to 50 Kbits/s (with clock recovery output) • Power saving features: "power-down" mode, "sleep" mode, stand-alone "wake-up" procedure • Fully integrated VC0 and synthesizer • Fine, digital tuning of the carrier frequency (200 Hz steps) • Fast frequency shifts (<50 µs for a 100 kHz shift) for efficient implementation of "frequency hopping" systems • Fast RX to TX toggle time: < 200 µs • Integrated RX/TX switch • Easy configuration and control through dedicated registers, including digital RSSI and battery voltage readout (100% digital interface)

AT86RF211DAI-ND	Package TQFP-48	**$9.89**

Smart RF™ Wireless Data Microtransmitter

The Atmel AT86RF401 Smart RF™ Microtransmitter is a highly integrated, low-cost RF transmitter, combined with an AVR RISC microcontroller. It requires only a crystal, a single $LiMnO_2$ coin cell (CR2032 or similar), three capacitors, an inductor and a tuned-loop antenna to implement a complete on-off keyed (OOK) wireless data transmitter.

Features:
• RF Frequency range of 264MHz to 456MHz • Data bandwidth of up to 10Kbps Manchester • Space-saving 20-lead TSSOP • 2Kb (1K x 16) of Flash Program Memory • 128 Bytes of EEPROM • 128 Bytes of SRAM • Six I/Os (Serial I/F, LED Drive Outputs, Button Input Interupts) • Low battery detect and brown-out protection

AT86RF401U-ND	Smart RF™ Wireless Data Microtransmitter	**$3.96**

H-Bridge

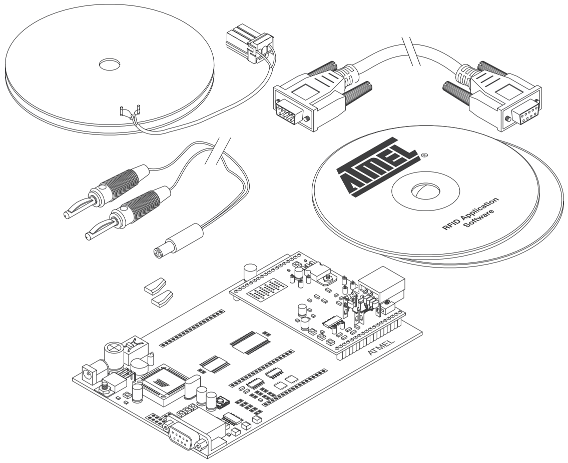
The U6815BM is a fully protected driver interface designed in 0.8µm BCDMOS technology. It is used to control up to 12 different loads by a microcontroller in automotive and industrial applications. Each of the 6 high-side and 6 low-side drivers is capable to drive currents up to 600mA. The drivers are freely configurable and can be controlled separately from a standard serial data interface. Therefore, all kinds of loads such as bulbs, resistors, capacitors and inductors can be combined. The IC design especially supports the applications of H-bridge to drive DC motors.

U6815BM-MFL-ND	Dual Hex DMOS Output Driver with Serial Input Control, Package SOP-28	**$6.02**

RFID Demo Kit

The RFID application kit (order number: TMEB8704) is designed to present the key features of various RFID products from Atmel Wireless & Microcontrollers. The included software version IDS 5 supports the following products: • U2270B on the reader side • TK5530/e5530 on the transponder side • TK5551/T5557 on the transponder side • TK5552 on the transponder side • TK5561/e5561 on the transponder side • U9280M on the transponder side

Kit Includes:
• Base Station Coil • Serial Cable • Demo Board • Sample Transponders



Description	EPROM (Bytes)	Digi-Key Part No.	Price Each 1	25	100
125KHz	1K	TK5552A-PP-ND⁎	2.21	1.86	1.55
125KHz	224	TK5551M-PP-ND⁎	2.19	1.84	1.53
125KHz	3128	TK5530-232-PP-ND†	2.15	1.80	1.50
RFID Application Kit		TMEB8704-ND	665.00	—	—

⁎ Read/Write † Read only

NEW! IMAGEcraft C-Compiler for AVR

ICCAVR supports all AT90S and ATMEGA devices (except for 1200, which does not have SRAM), Tiny26, and AT94K FPSLIC. **ANSI C Complier**: • Modern fast C Compiler with FULL support for the ANSI C language. NOT micro-C or extended K&R C. • 32-bit longs, 32-bit IEEE single precision floating point.

Professional Version ICCAVR PRO: Code Compressor Optimizer, which reduces final code by 8-18%. This state-of-the-art whole-program optimizer is not available in any other commercial embedded compilers. ICCtiny supports all TinyAVR devices and AT90S1200.

Target CPU's	Code Memory Size	Code Browser	Code Compressor	Debuggers	Application Builder	Optimizations	Digi-Key Part No.	Price Each
C-Compiler for AVR	Up to 64K Bytes	Yes	No	AVR Studio, Flash Stuio+	Yes	Register Allocation, Peephole	ICCAVR STD-ND	199.00
C-Compiler PRO for AVR	Up to 128K Bytes	Yes	Yes	AVR Studio, Flash Stuio+	Yes	Register Allocation, Peephole	ICCAVR PRO-ND	499.00
C-Compiler for TinyAVR	Limit of Devices	No	No	AVR Studio	Yes	Reg. Alloc., Peephole, Dead Code Elimination	ICCTINY-ND	129.00

ATMEL AVR 8-Bit RISC Microcontrollers

Atmel's new AVR microcontrollers have a RISC core running single cycle instructions and a well-defined I/O structure that limits the need for external components. Internal oscillators, timers, UART, SPI, pull-up resistors, pulse width modulation, ADC, analog comparator and watch dog timers are some of the features you will find in AVR devices. AVR instructions are tuned to decrease the size of the program whether the code is written in C or Assembly. With on-chip in-system programmable Flash and EEPROM, the AVR is a perfect choice in order to optimize cost and get product to the market quickly.

The AVR is a low-power CMOS 8-bit series of microcontrollers based on the AVR RISC architecture. By executing powerful instructions in a single clock cycle, they achieve throughputs approaching 1 MIPS per MHz allowing the system designer to optimize power consumption versus processing speed. The AVR core combines a rich instruction set with the 32 general purpose working registers. All 32 registers are directly connected to the Arithmetic Logic Unit (ALU), allowing two independent registers to be accessed in one single instruction executed in one clock cycle. The resulting architecture is more code efficient while achieving throughputs up to ten times faster than conventional CISC microcontrollers.

General Features:

- Utilizes the AVR high-performance and low-power RISC architecture
- 32 x 8 general purpose working registers
- Programming Lock for Flash program and EEPROM data security
- Low-power idle and power down modes
- External and internal interrupt sources
- Low-power, high speed CMOS process technology
- Fully static operation

Memory Size (Bytes)			I/O	Inter-rupts	UART	TWI	ISP	JTAG	SPI	PWM	ADC	VCC	Int.	Clock Speed	Timer/ Counters	Oper-ating	Pkg.	Digi-Key	Price Each		
Program	RAM	EEPROM	Pins	Ext/Int		(I^2C)							OSC	(MHz)	8/16-bit	Temp.		Part No.	1	25	100
1K	—	—	6	1/3	—	—	—	—	—	—	—	4.0 - 5.5	Y	6	1/—	Com.	8-DIP	ATTINY11-6PC-ND	1.48	1.33	1.17
																Ind.	8-DIP	ATTINY11-6PI-ND	1.48	1.33	1.17
																Com.	8-SOIC	ATTINY11-6SC-ND	1.48	1.33	1.17
																Ind.	8-SOIC	ATTINY11-6SI-ND	1.48	1.33	1.17
1K	—	—	6	1/3	—	—	—	—	—	—	—	2.7 - 5.5	Y	2	1/—	Com.	8-DIP	ATTINY11L-2PC-ND	1.81	1.59	1.40
																Ind.	8-DIP	ATTINY11L-2PI-ND	1.94	1.69	1.49
																Com.	8-SOIC	ATTINY11L-2SC-ND	1.81	1.59	1.40
																Ind.	8-SOIC	ATTINY11L-2SI-ND	1.94	1.69	1.49
1K	—	64	6	1/4	—	—	Y	—	—	—	—	4.0 - 5.5	Y (1MHz)	8	1/—	Com.	8-DIP	ATTINY12-8PC-ND	1.94	1.69	1.49
																Ind.	8-DIP	ATTINY12-8PI-ND	2.06	1.79	1.58
																Com.	8-SOIC	ATTINY12-8SC-ND	1.94	1.69	1.49
																Ind.	8-SOIC	ATTINY12-8SI-ND	2.06	1.79	1.58
1K	—	64	6	1/4	—	—	Y	—	—	—	—	2.7 - 5.5	Y (1MHz)	4	1/—	Com.	8-DIP	ATTINY12L-4PC-ND	1.94	1.69	1.49
																Ind.	8-DIP	ATTINY12L-4PI-ND	1.94	1.69	1.49
																Com.	8-SOIC	ATTINY12L-4SC-ND	1.94	1.69	1.49
																Ind.	8-SOIC	ATTINY12L-4SI-ND	1.94	1.69	1.49
1K	—	64	6	1/4	—	—	Y	—	—	—	—	1.8 - 5.5	Y (1MHz)	1.2	1/—	Com.	8-DIP	ATTINY12V-1PC-ND	2.19	1.89	1.67
																Ind.	8-DIP	ATTINY12V-1PI-ND	2.34	2.00	1.77
																Com.	8-SOIC	ATTINY12V-1SC-ND	2.19	1.89	1.67
																Ind.	8-SOIC	ATTINY12V-1SI-ND	2.34	2.00	1.77
1K	—	64	6	1/7	—	—	Y	—	—	1	4-ch. 10-bit	2.7 - 5.5	Y (1.6MHz)	1.6	2/—	Com.	8-DIP	ATTINY15L-1PC-ND	2.56	2.16	1.92
																Ind.	8-DIP	ATTINY15L-1PI-ND	2.56	2.16	1.92
																Com.	8-SOIC	ATTINY15L-1SC-ND	2.56	2.16	1.92
																Ind.	8-SOIC	ATTINY15L-1SI-ND	2.56	2.16	1.92
1K	—	64	15	1/2	—	—	—	—	Y	—	—	4.0 - 6.0	Y (1MHz)	12	1/—	Com.	20-Dip	AT90S1200-12PC-ND	2.47	2.10	1.86
																Ind.	20-Dip	AT90S1200-12PI-ND	2.47	2.10	1.86
																Com.	20-SOIC	AT90S1200-12SC-ND	2.47	2.10	1.86
																Ind.	20-SOIC	AT90S1200-12SI-ND	2.47	2.10	1.86
																Com.	20-SSOP	AT90S1200-12YC-ND	2.47	2.10	1.86
																Ind.	20-SSOP	AT90S1200-12YI-ND	2.47	2.10	1.86
1K	—	64	15	1/2	—	—	—	—	Y	—	—	2.7 - 6.0	Y (1MHz)	4	1/—	Com.	20-Dip	AT90S1200-4PC-ND	2.39	2.03	1.80
																Ind.	20-Dip	AT90S1200-4PI-ND	2.56	2.16	1.92
																Com.	20-SOIC	AT90S1200-4SC-ND	2.39	2.03	1.80
																Ind.	20-SOIC	AT90S1200-4SI-ND	2.56	2.16	1.92
																Com.	20-SSOP	AT90S1200-4YC-ND	2.75	2.31	2.06
																Ind.	20-SSOP	AT90S1200-4YI-ND	2.92	2.44	2.17
1K	—	64	15	1/2	—	—	—	—	Y	—	—	4.0 - 6.0	Y (1MHz)	12	1/—	Com.	20-Dip	AT90S1200A-12PC-ND	2.47	2.10	1.86
																Ind.	20-Dip	AT90S1200A-12PI-ND	2.62	2.21	1.97
																Com.	20-SOIC	AT90S1200A-12SC-ND	2.47	2.10	1.86
																Ind.	20-SOIC	AT90S1200A-12SI-ND	2.62	2.21	1.97
																Com.	20-SSOP	AT90S1200A-12YC-ND	2.84	2.38	2.12
																Ind.	20-SSOP	AT90S1200A-12YI-ND	2.99	2.49	2.22
1K	—	64	15	1/2	—	—	—	—	Y	—	—	2.7 - 6.0	Y (1MHz)	4	1/—	Com.	20-Dip	AT90S1200A-4PC-ND	2.60	2.20	1.95
																Ind.	20-Dip	AT90S1200A-4PI-ND	2.77	2.33	2.07
																Com.	20-SOIC	AT90S1200A-4SC-ND	2.60	2.20	1.95
																Ind.	20-SOIC	AT90S1200A-4SI-ND	2.77	2.33	2.07
																Com.	20-SSOP	AT90S1200A-4YC-ND	2.97	2.47	2.20
																Ind.	20-SSOP	AT90S1200A-4YI-ND	3.14	2.60	2.32

Com. = Commercial Temperature Range: 0°C to +70°C (+32°F to +159°F); Ind. = Industrial Temperature Range: -40°C to +85°C (-40°F to +185°F)

(Continued)

AVR 8-Bit RISC Microcontrollers *(Cont.)*

Memory Size (Bytes)			I/O	Inter-rupts		TWI							Int.	Clock Speed	Timer/ Counters	Oper-ating		Digi-Key	Price Each		
Program	RAM	EEPROM	Pins	Ext/Int	UART	(I^2C)	ISP	JTAG	SPI	PWM	ADC	VCC	OSC	(MHz)	8/16-bit	Temp.	Pkg.	Part No.	1	25	100
2K	128	128	3	1/1	—	—	Y	—	Y	—	—	4.0 - 6.0	—	10	1/—	Com.	8-Dip	AT90S2323-10PC-ND	2.80	2.34	2.09
																Ind.	8-Dip	AT90S2323-10PI-ND	2.80	2.34	2.09
																Com.	8-SOIC	AT90S2323-10SC-ND	2.80	2.34	2.09
																Ind.	8-SOIC	AT90S2323-10SI-ND	2.80	2.34	2.09
2K	128	128	3	1/1	—	—	Y	—	Y	—	—	2.7 - 6.0	—	4	1/—	Com.	8-Dip	AT90LS2323-4PC-ND	2.38	2.03	1.80
																Ind.	8-Dip	AT90LS2323-4PI-ND	2.54	2.15	1.91
																Com.	8-SOIC	AT90LS2323-4SC-ND	2.38	2.03	1.80
																Ind.	8-SOIC	AT90LS2323-4SI-ND	2.54	2.15	1.91
2K	128	128	5	1/1	—	—	Y	—	Y	1	—	4.0 - 6.0	1 (1MHz)	10	1/1	Com.	8-Dip	AT90S2343-10PC-ND	2.80	2.34	2.09
																Ind.	8-Dip	AT90S2343-10PI-ND	2.80	2.34	2.09
																Com.	8-SOIC	AT90S2343-10SC-ND	2.80	2.34	2.09
																Ind.	8-SOIC	AT90S2343-10SI-ND	2.80	2.34	2.09
2K	128	128	5	1/1	1	—	Y	—	Y	1	—	2.7 - 6.0	1 (1MHz)	4	1/1	Com.	8-Dip	AT90LS2343-4PC-ND	2.88	2.41	2.15
																Ind.	8-Dip	AT90LS2343-4PI-ND	3.10	2.57	2.29
																Com.	8-SOIC	AT90LS2343-4SC-ND	2.88	2.41	2.15
																Ind.	8-SOIC	AT90LS2343-4SI-ND	3.10	2.57	2.29
2K	128	128	15	2/8	1	—	Y	—	Y	1 (10-bit)	—	4.0 - 6.0	—	10	1/—	Com.	20-Dip	AT90S2313-10PC-ND	3.44	2.83	2.53Y
																Ind.	20-Dip	AT90S2313-10PI-ND	3.44	2.83	2.53
																Com.	20-SOIC	AT90S2313-10SC-ND	3.44	2.83	2.53
																Ind.	20-SOIC	AT90S2313-10SI-ND	3.44	2.83	2.53
2K	128	128	15	2/8	1	—	Y	—	Y	1 (10-bit)	—	2.7 - 6.0	—	4	1/—	Com.	20-Dip	AT90S2313-4PC-ND	3.44	2.83	2.53
																Ind.	20-Dip	AT90S2313-4PI-ND	3.44	2.83	2.53
																Com.	20-SOIC	AT90S2313-4SC-ND	3.44	2.83	2.53
																Ind.	20-SOIC	AT90S2313-4SI-ND	3.44	2.83	2.53
2K	128	128	16	1/10	—	—	Y	—	—	2	8-ch 10-bit	4.5 - 5.5	Y (8MHz)	16	2/—	Com.	20-DIP	ATTINY26-16PC-ND	2.58	1.91	1.70
																Ind.	20-DIP	ATTINY26-16PI-ND	2.75	2.04	1.82
																Com.	20-SOIC	ATTINY26-16SC-ND	2.58	1.91	1.70
																Ind.	20-SOIC	ATTINY26-16SI-ND	2.75	2.04	1.82
																Com.	20-MLF	ATTINY26-16MC-ND	2.80	2.07	1.85
																Ind.	20-MLF	ATTINY26-16MI-ND	2.97	2.20	1.97
2K	128	128	16	1/10	—	—	Y	—	—	2	8-ch. 10-bit	2.7 - 5.5	Y (8MHz)	1	2/—	Com.	20-DIP	ATTINY26L-8PC-ND	2.58	1.91	1.70
																Ind.	20-DIP	ATTINY26L-8PI-ND	2.75	2.04	1.82
																Com.	20-SOIC	ATTINY26L-8SC-ND	2.58	1.91	1.70
																Ind.	20-SOIC	ATTINY26L-8SI-ND	2.75	2.04	1.82
																Com.	20-MLF	ATTINY26L-8MC-ND	2.80	2.07	1.85
																Ind.	20-MLF	ATTINY26L-8MI-ND	2.97	2.20	1.97
2K	—	—	20	2/3	—	—	—	—	—	—	—	2.7 - 5.5	Y (1.2MHz)	4	1/—	Com.	28-DIP	ATTINY28L-4PC-ND	1.94	1.69	1.49
																Ind.	28-DIP	ATTINY28L-4PI-ND	1.94	1.69	1.49
																Com.	32-TQFP	ATTINY28L-4AC-ND	1.94	1.69	1.49
																Ind.	32-TQFP	ATTINY28L-4AI-ND	1.94	1.69	1.49
																Com.	32-MLF	ATTINY28L-4MC-ND	2.37	1.75	1.56
																Ind.	32-MLF	ATTINY28L-4MI-ND	2.52	1.86	1.66
2K	—	—	20	2/3	—	—	—	—	—	—	—	1.8 - 5.5	Y (1.2MHz)	1.2	1/—	Com.	28-DIP	ATTINY28V-1PC-ND	1.94	1.69	1.49
																Ind.	28-DIP	ATTINY28V-1PI-ND	1.94	1.69	1.49
																Com.	32-TQFP	ATTINY28V-1AC-ND	1.94	1.69	1.49
																Ind.	32-TQFP	ATTINY28V-1AI-ND	1.94	1.69	1.49
																Com.	32-MLF	ATTINY28V-1MC-ND	2.47	1.83	1.63
																Ind.	32-MLF	ATTINY28V-1MI-ND	2.62	1.95	1.74
4K	128	256	20	1/2	1	—	Y	—	Y	1	6-ch. 10-bit	4.0 - 6.0	—	8	1/1	Ind.	28-Dip	AT90S4433-8PI-ND	5.70	4.48	4.04
																Com.	32-TQFP	AT90S4433-8AC-ND	5.70	4.42	4.00
																Ind.	32-TQFP	AT90S4433-8AI-ND	5.70	4.48	4.04
4K	128	256	20	1/2	1	—	Y	—	Y	1	6-ch. 10-bit	2.7 - 6.0	—	4	1/1	Com.	28-Dip	AT90LS4433-4PC-ND	5.76	4.52	4.09
																Ind.	28-Dip	AT90LS4433-4PI-ND	6.15	4.80	4.34
																Com.	32-TQFP	AT90LS4433-4AC-ND	5.93	4.65	4.20
																Ind.	32-TQFP	AT90LS4433-4AI-ND	6.34	4.94	4.47
8K	1K	512	23	2/16	1(USART)	1	Y	—	Y (Master/Slave)	3	4-ch/10-bit 2-ch/8-bit	4.0 - 5.5	Y (8MHz)	16	2/1	Com.	28-DIP	ATMEGA8-16PC-ND	5.05	4.00	3.60
																Ind.	28-DIP	ATMEGA8-16PI-ND	5.40	4.26	3.84
																Com.	32-TQFP	ATMEGA8-16AC-ND	5.27	4.17	3.76
																Ind.	32-TQFP	ATMEGA8-16AI-ND	5.61	4.41	3.99
																Com.	32-MLF	ATMEGA8-16MC-ND	5.27	3.90	3.48
																Ind.	32-MLF	ATMEGA8-16MI-ND	5.61	4.16	3.71
8K	1K	512	23	2/16	1(USART)	1	Y	—	Y (Master/Slave)	3	4-ch/10-bit 2-ch/8-bit	2.7 - 5.5	Y (8MHz)	8	2/1	Com.	28-DIP	ATMEGA8L-8PC-ND	5.05	4.01	3.61
																Ind.	28-DIP	ATMEGA8L-8PI-ND	5.40	4.26	3.84
																Com.	32-TQFP	ATMEGA8L-8AC-ND	5.27	4.17	3.76
																Ind.	32-TQFP	ATMEGA8L-8AI-ND	5.61	4.41	3.99
																Com.	32-MLF	ATMEGA8L-8MC-ND	5.27	3.90	3.48
																Ind.	32-MLF	ATMEGA8L-8MI-ND	5.61	4.16	3.71
8K	512	512	32	2/9	1	—	Y	—	Y	1 (10-bit)	—	4.0 - 6.0	—	8	1/1	Com.	40-Dip	AT90S8515-8PC-ND	7.74	5.93	5.38
																Ind.	40-Dip	AT90S8515-8PI-ND	7.74	5.93	5.38
																Com.	44-TQFP	AT90S8515-8AC-ND	7.74	5.93	5.38
																Ind.	44-TQFP	AT90S8515-8AI-ND	7.74	5.93	5.38
8K	512	512	32	2/9	1	—	Y	—	Y	1 (10-bit)	—	2.7 - 6.0	—	4	1/1	Com.	40-Dip	AT90S8515-4PC-ND	7.74	5.93	5.38
																Ind.	40-Dip	AT90S8515-4PI-ND	7.74	5.93	5.38
																Com.	44-TQFP	AT90S8515-4AC-ND	7.74	5.93	5.38
																Ind.	44-TQFP	AT90S8515-4AI-ND	7.74	5.93	5.38
8K	512	512	32	2/9	1	—	Y	—	Y	1 (10-bit)	— —	4.0 - 6.0	—	8	1/1	Com.	40-Dip	AT90S8515A-8PC-ND	7.74	5.93	5.38
																Ind.	40-Dip	AT90S8515A-8PI-ND	7.74	5.93	5.38
																Com.	44-PLCC	AT90S8515A-8JC-ND	7.74	5.93	5.38
																Ind.	44-PLCC	AT90S8515A-8JI-ND	7.74	5.93	5.38

Com. = Commercial Temperature Range: 0°C to +70°C (+32°F to +159°F); Ind. = Industrial Temperature Range: -40°C to +85°C (-40°F to +185°F)

(Continued)

AVR 8-Bit RISC Microcontrollers *(Cont.)*

Memory Size (Bytes)			I/O Pins	Inter-rupts Ext/Int	UART	TWI (I^2C)	ISP	JTAG	SPI	PWM	ADC	VCC	Int. OSC	Clock Speed (MHz)	Timer/ Counters 8/16-bit	Oper-ating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program	RAM	EEPROM																	1	25	100
8K	512	512	32	2/9	1	—	Y	—	Y	1	—	2.7 - 6.0	—	4	1/1	Com.	40-Dip	AT90S8515A-4PC-ND	7.74	5.93	5.38
																Ind.	40-Dip	AT90S8515A-4PI-ND	7.74	5.93	5.38
																Com.	44-PLCC	AT90S8515A-4JC-ND	7.74	5.93	5.38
																Ind.	44-PLCC	AT90S8515A-4JI-ND	7.74	5.93	5.38
																Com.	44-TQFP	AT90S8515A-4AC-ND	7.74	5.93	5.38
																Ind.	44-TQFP	AT90S8515A-4AI-ND	7.74	5.93	5.38
8K	512	512	35	3/13	1(USART)	—	Y	—	Y (Master/Slave)	3	—	4.5 - 5.5	Y (8MHz)	16	1/1	Com.	40-DIP	ATMEGA8515-16PC-ND	5.16	3.82	3.41
																Ind.	40-DIP	ATMEGA8515-16PI-ND	5.53	4.08	3.65
																Com.	44-PLCC	ATMEGA8515-16JC-ND	5.16	3.82	3.41
																Ind.	44-PLCC	ATMEGA8515-16JI-ND	5.53	4.08	3.65
																Com.	44-TQFP	ATMEGA8515-16AC-ND	5.38	3.98	3.55
																Ind.	44-TQFP	ATMEGA8515-16AI-ND	5.74	4.24	3.79
																Com.	44-MLF	ATMEGA8515-16MC-ND	5.38	3.98	3.55
																Ind.	44-MLF	ATMEGA8515-16MI-ND	5.74	4.24	3.79
8K	512	512	35	3/13	1(USART)	—	Y	—	Y (Master/Slave)	3	—	2.7 - 5.5	Y (8MHz)	8	1/1	Com.	40-DIP	ATMEGA8515L-8PC-ND	5.16	3.82	3.41
																Ind.	40-DIP	ATMEGA8515L-8PI-ND	5.53	4.08	3.65
																Com.	44-PLCC	ATMEGA8515L-8JC-ND	5.16	3.82	3.41
																Ind.	44-PLCC	ATMEGA8515L-8JI-ND	5.53	4.08	3.65
																Com.	44-TQFP	ATMEGA8515L-8AC-ND	5.38	3.98	3.55
																Ind.	44-TQFP	ATMEGA8515L-8AI-ND	5.74	4.24	3.79
																Com.	44-MLF	ATMEGA8515L-8MC-ND	5.38	3.98	3.55
																Ind.	44-MLF	ATMEGA8515L-8MI-ND	5.74	4.24	3.79
8K	512	512	30	2/13	1	—	Y	—	Y	1	8-ch. 10-bit	4.0 - 6.0	—	8	1/1	Com.	40-Dip	AT90S8535-8PC-ND	8.06	6.16	5.59
																Ind.	40-Dip	AT90S8535-8PI-ND	8.06	6.16	5.59
8K	12	512	30	2/13	1	—	Y	—	Y	1	8-ch. 10-bit	2.7 - 6.0	—	4	1/1	Com.	40-Dip	AT90LS8535-4PC-ND	8.23	6.28	5.71
																Ind.	40-Dip	AT90LS8535-4PI-ND	8.82	6.69	6.08
																Com.	44-PLCC	AT90LS8535-4JC-ND	8.23	6.28	5.71
																Ind.	44-PLCC	AT90LS8535-4JI-ND	8.82	6.69	6.08
																Com.	44-TQFP	AT90LS8535-4AC-ND	8.41	6.40	5.82
																Ind.	44-TQFP	AT90LS8535-4AI-ND	8.99	6.81	6.19
8K	512	512	32	3/17	1(USART)	1	Y	—	Y (Master/Slave)	4	8-ch. 10-bit	4.5 - 5.5	Y (8MHz)	16	2/1	Com.	40-DIP	ATMEGA8535-16PC-ND	5.81	4.29	3.83
																Ind.	40-DIP	ATMEGA8535-16PI-ND	6.21	4.59	4.10
																Com.	44-PLCC	ATMEGA8535-16JC-ND	5.81	4.29	3.83
																Ind.	44-PLCC	ATMEGA8535-16JI-ND	6.21	4.59	4.10
																Com.	44-TQFP	ATMEGA8535-16AC-ND	6.02	4.45	3.98
																Ind.	44-TQFP	ATMEGA8535-16AI-ND	6.43	4.75	4.24
																Com.	44-MLF	ATMEGA8535-16MC-ND	6.02	4.45	3.98
																Ind.	44-MLF	ATMEGA8535-16MI-ND	6.43	4.75	4.24
8K	512	512	32	3/17	1(USART)	1	Y	—	Y (Master/Slave)	4	8-ch. 10-bit	2.7 - 5.5	Y (8MHz)	8	2/1	Com.	40-DIP	ATMEGA8535L-8PC-ND	5.81	4.29	3.83
																Ind.	40-DIP	ATMEGA8535L-8PI-ND	6.21	4.59	4.10
																Com.	44-PLCC	ATMEGA8535L-8JC-ND	5.81	4.29	3.83
																Ind.	44-PLCC	ATMEGA8535L-8JI-ND	6.21	4.59	4.10
																Com.	44-TQFP	ATMEGA8535L-8AC-ND	6.02	4.45	3.98
																Ind.	44-TQFP	ATMEGA8535L-8AI-ND	6.02	4.45	3.98
																Com.	44-MLF	ATMEGA8535L-8MC-ND	6.02	4.45	3.98
																Ind.	44-MLF	ATMEGA8535L-8MI-ND	6.43	4.75	4.24
16K	1K	512	35	3/17	2	—	Y	—	Y (Master/Slave)	4	—	4.0 - 5.5	—	8	2/1	Com.	40-DIP	ATMEGA161-8PC-ND	10.97	8.18	7.46
																Ind.	40-DIP	ATMEGA161-8PI-ND	11.74	8.71	7.96
																Com.	44-TQFP	ATMEGA161-8AC-ND	11.18	8.33	7.60
																Ind.	44-TQFP	ATMEGA161-8AI-ND	11.95	8.86	8.10
16K	1K	512	35	3/17	2	—	Y	—	Y (Master/Slave)	4	—	2.7 - 5.5	—	4	2/1	Com.	40-DIP	ATMEGA161L-4PC-ND	11.50	8.55	7.81
																Ind.	40-DIP	ATMEGA161L-4PI-ND	12.30	9.10	8.32
																Com.	44-TQFP	ATMEGA161L-4AC-ND	11.72	8.70	7.95
																Ind.	44-TQFP	ATMEGA161L-4AI-ND	12.51	9.24	8.45
16K	1K	512	35	3/25	2(USART)	—	Y	Y	Y (Master/Slave)	6	—	2.7 - 5.5	Y (8MHz)	16	2/2	Com.	40-PDIP	ATMEGA162-16PC-ND *NEW!*	6.67	4.93	4.40
																Ind.	40-PDIP	ATMEGA162-16PI-ND *NEW!*	7.14	5.27	4.71
																Com.	44-TQFP	ATMEGA162-16AC-ND *NEW!*	6.88	5.09	4.54
																Ind.	44-TQFP	ATMEGA162-16AI-ND *NEW!*	7.35	5.43	4.85
																Ind.	44-MLF	ATMEGA162-16MI-ND *NEW!*	7.35	5.43	4.85
16K	1K	512	35	3/25	2(USART)	—	Y	Y	Y (Master/Slave)	6	—	2.7 - 5.5	Y (8MHz)	8	2/2	Com.	44-TQFP	ATMEGA162V-1AC-ND *NEW!*	6.67	4.93	4.40
																Ind.	40-PDIP	ATMEGA162V-8PI-ND *NEW!*	7.14	5.27	4.71
																Ind.	44-TQFP	ATMEGA162V-8AI-ND *NEW!*	7.14	5.27	4.71
																Ind.	44-MLF	ATMEGA162V-8MI-ND *NEW!*	7.35	5.43	4.85
16K	1K	512	32	2/18	1	1	Y	Y	Y (Master/Slave)	3	8-ch. 10-bit	2.7 - 5.5	Y (1MHz)	4	2/1	Com.	40-DIP	ATMEGA16-16PC-ND	7.53	5.57	4.97
																Ind.	40-DIP	ATMEGA16-16PI-ND	8.06	5.95	5.32
																Com.	44-TQFP	ATMEGA16-16AC-ND	7.74	5.72	5.11
																Ind.	44-TQFP	ATMEGA16-16AI-ND	8.28	6.11	5.46
																Com.	44-MLF	ATMEGA16-16MC-ND	7.74	5.72	5.11
																Ind.	44-MLF	ATMEGA16-16MI-ND	8.28	6.11	5.46
16K	1K	512	32	2/18	1(USART)	1	Y	Y	Y (Master/Slave)	4	8-ch. 10-bit	2.7 - 5.5	Y (8MHz)	8	2/1	Com.	40-DIP	ATMEGA16L-8PC-ND	7.53	5.57	4.97
																Ind.	40-DIP	ATMEGA16L-8PI-ND	8.06	5.95	5.32

Com. = Commercial Temperature Range: 0°C to 70°C (32°F to 159°F); Ind. = Industrial Temperature Range: -40°C to 85°C (-40°F to 185°F)

(Continued)

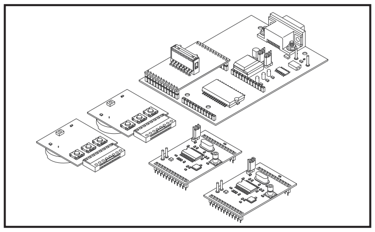
AVR 8-Bit RISC Microcontrollers *(Cont.)*

Memory Size (Bytes)			I/O	Inter-rupts	UART	TWI	ISP	JTAG	SPI	PWM	ADC	VCC	Int.	Clock Speed	Timer/ Counters	Oper-ating	Pkg.	Digi-Key	Price Each		
Program	RAM	EEPROM	Pins	Ext/Int		(I^2C)							OSC	(MHz)	8/16-bit	Temp.		Part No.	1	25	100
16K	1K	512	32	2/18	1(USART)	1	Y	Y	Y (Master/Slave)	4	8-ch. 10-bit	2.7 - 5.5	Y (8MHz)	8	2/1	Com.	44-TQFP	ATMEGA16L-8AC-ND	7.74	5.72	5.11
																Ind.	44-TQFP	ATMEGA16L-8AI-ND	8.28	6.11	5.46
																Com.	44-MLF	ATMEGA16L-8MC-ND	7.74	5.72	5.11
																Ind.	44-MLF	ATMEGA16L-8MI-ND	8.28	6.11	5.46
16K	1K	512	53	17/6	1	17/6	Y	Y	Y (Master/Slave)	4	8-ch. 10-bit	4.5 - 5.5	Y	16	3	Ind.	64-TQFP	ATMEGA169-16AI-ND *NEW!*	8.55	7.47	6.67
																Ind.	64-MLF	ATMEGA169-16MI-ND *NEW!*	8.55	7.47	6.67
16K	1K	512	53	17/6	1(USART)	1	Y	Y	Y (Master/Slave)	4	8-ch. 10-bit	2.7 - 5.5	Y (1MHz)	4	2/1	Ind.	64-TQFP	ATMEGA169L-8AI-ND *NEW!*	11.03	8.16	7.28
																Ind.	64-MLF	ATMEGA169L-8MI-ND *NEW!*	11.03	8.16	7.28
16K	1K	512	53	17/6	1(USART)	1	Y	Y	Y (Master/Slave)	4	8-ch. 10-bit	1.8 - 5.5	Y (1MHz)	1	2/1	Ind.	64-TQFP	ATMEGA169V-1AI-ND *NEW!*	10.81	8.00	7.14
																Ind.	64-MLF	ATMEGA169V-1MI-ND *NEW!*	11.03	8.16	7.28
32K	2K	1K	32	3/16	1(USART)	1	Y	Y	Y (Master/Slave)	4	8-ch. 10-bit	4.5 - 5.5	Y (8MHz)	16	2/1	Com.	40-DIP	ATMEGA32-16PC-ND	9.89	7.31	6.53
																Ind.	40-DIP	ATMEGA32-16PI-ND	10.58	7.83	6.99
																Com.	44-TQFP	ATMEGA32-16AC-ND	10.11	7.47	6.67
																Ind.	44-TQFP	ATMEGA32-16AI-ND	10.79	7.98	7.13
																Com.	44-MLF	ATMEGA32-16MC-ND	10.11	7.47	6.67
																Ind.	44-MLF	ATMEGA32-16MI-ND	10.79	7.98	7.13
32K	2K	1K	32	3/16	1(USART)	1	Y	Y	Y (Master/Slave)	4	8-ch. 10-bit	2.7 - 5.5	Y (8MHz)	1	2/1	Com.	40-DIP	ATMEGA32L-8PC-ND	9.89	7.31	6.53
																Ind.	40-DIP	ATMEGA32L-8PI-ND	10.58	7.83	6.99
																Com.	44-TQFP	ATMEGA32L-8AC-ND	10.11	7.47	6.67
																Ind.	44-TQFP	ATMEGA32L-8AI-ND	10.79	7.98	7.13
																Com.	44-MLF	ATMEGA32L-8MC-ND	10.11	7.47	6.67
																Ind.	44-MLF	ATMEGA32L-8MI-ND	10.79	7.98	7.13
64K	4K	2K	53	8/26	2(USART)	1	Y	Y	Y (Master/Slave)	8	8-ch. 10-bit	4.5 - 5.5	Y (8MHz)	16	2/2	Com.	64-TQFP	ATMEGA64-16AC-ND *NEW!*	12.90	9.54	8.52
																Ind.	64-TQFP	ATMEGA64-16AI-ND *NEW!*	13.78	10.20	9.11
																Com.	64-MLF	ATMEGA64-16MC-ND *NEW!*	12.90	9.54	8.52
																Ind.	64-MLF	ATMEGA64-16MI-ND *NEW!*	13.78	10.20	9.11
64K	4K	2K	53	8/26	2(USART)	1	Y	Y	Y (Master/Slave)	8	8-ch. 10-bit	2.7 - 5.5	Y (8MHz)	8	2/2	Com.	64-TQFP	ATMEGA64L-8AC-ND *NEW!*	12.90	9.54	8.52
																Ind.	64-TQFP	ATMEGA64L-8AI-ND *NEW!*	13.78	10.20	9.11
																Com.	64-MLF	ATMEGA64L-8MC-ND *NEW!*	12.90	9.54	8.52
																Ind.	64-MLF	ATMEGA64L-8MI-ND *NEW!*	13.78	10.20	9.11
128K	4K	4K	53	8/26	2(USART)	1	Y	Y	Y (Master/Slave)	8	8-ch. 10-bit	4.5 - 5.5	Y (8MHz)	16	2/2	Com.	64-TQFP	ATMEGA128-16AC-ND	16.34	11.85	10.87
																Ind.	64-TQFP	ATMEGA128-16AI-ND	17.48	12.61	11.58
																Com.	64-MLF	ATMEGA128-16MC-ND	16.34	12.08	10.79
																Ind.	64-MLF	ATMEGA128-16MI-ND	17.48	12.92	11.54
128K	4K	4K	53	8/26	2(USART)	1	Y	Y	Y (Master/Slave)	8	8-ch. 10-bit	2.7 - 5.5	Y (8MHz)	8	2/2	Com.	64-TQFP	ATMEGA128L-8AC-ND	16.34	11.85	10.87
																Ind.	64-TQFP	ATMEGA128L-8AI-ND	17.48	12.61	11.58
																Com.	64-MLF	ATMEGA128L-8MC-ND	16.34	12.08	10.79
																Ind.	64-MLF	ATMEGA128L-8MI-ND	17.48	12.92	11.54

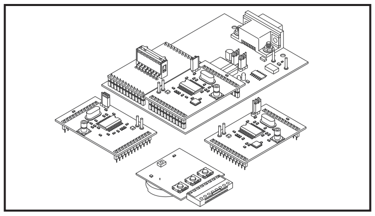
Com. = Commercial Temperature Range: 0°C to +70°C (+32°F to +159°F); Ind. = Industrial Temperature Range: -40°C to +85°C (-40°F to +185°F)

Wireless Communications

TMEBX741D Kit includes:
• Antenna • 1 - Antenna Cable • 2-BNC Adapters • 1-25 to 9 Pin Parallel to Serial Cable • 1 - 25 to 9 Pin Adapter • 2 - Coin Cells • 1 - Guide/Data Book • 3 - Floppys - Software



TMEBX745B Kit includes:
• Antenna • 1 - Antenna Cable • 2-BNC Adapters • 1-25 to 9 Pin Parallel to Serial Cable • 1 - 25 to 9 Pin Adapter • 2 - Coin Cells • 1 - Guide/Data Book • 3 - CDs - Software



Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel‡ Size	Pricing
UHF ASK/FSK Transmitter, 2.0V to 4.0V, 868MHz to 928MHz	8-TSSOP	T5750-6AQCT-ND	2.39	2.00	1.67	1,000	1610.00
UHF ASK/FSK Transmitter, 2.0V to 4.0V, 310MHz to 330MHz	8-TSSOP	T5753-6AQCT-ND	2.02	1.70	1.41	1,000	1363.00
UHF ASK/FSK Transmitter, 2.0V to 4.0V, 429MHz to 439MHz	8-TSSOP	T5754-6AQCT-ND	2.02	1.70	1.41	5,000	1363.00/M
UHF ASK/FSK Receiver, 5V to 20V, 902MHz to 928MHz	20-SOIC	T5761-TGS-ND	4.36	3.66	3.05	—	—
UHF ASK/FSK Receiver, 5V to 20V, 300MHz to 450MHz for ASK or FSK	20-SOIC	T5743P6-TGS-ND	4.49	3.77	3.14	—	—
UHF ASK Receiver, 4.5V to 5.5V, 300MHz to 450MHz	20-SSOP	T5744N-TK-ND	3.16	2.65	2.21	—	—
Read/Write Base Station, 5V, 125KHz	16-SOIC	U2270B-MFP-ND	2.71	2.27	1.89	—	—
UHF ASK Transmitter, 2.2V to 4.0V, 310MHz to 440MHz	16-SSOP	U2745B-MFB-ND	1.83	1.53	1.28	—	—
UHF ASK/FSK Transmitter, 2.0V to 5.5V, 300MHz to 450MHz	16-SSOP	U2741B-NFB-ND	2.26	1.89	1.58	—	—
2.5GHz WDECT/ISM Single-Chip Transceiver, 3V to 4.6V	48-MLF	T2803-PLHCT-ND	16.13	13.50	11.25	4,000	10875.00/M
2.5GHz WDECT/ISM Single-Chip Transceiver, 3V to 4.6V	48-MLF	T2802-PLHCT-ND	16.13	13.50	11.25	4,000	10875.00/M
2.5GHz Double-Balanced Mixer, 2.7V to 5.5V	8-SOIC	U2795B-MFP-ND	2.80	2.34	1.95	—	—
2GHz Single-Balanced Mixer, 2.7V to 5.5V	8-SOIC	U2796B-MFP-ND	2.80	2.34	1.95	—	—
1000MHz Quadrature Modulator, 5V	20-SSOP	U2794B-MFS-ND	8.39	7.02	5.85	—	—
1000MHz Quadrature Modulator, 5V	16-SOIC	U2790B-MFP-ND	8.39	7.02	5.85	—	—
300MHz Quadrature Modulator, 5V	20-SSOP	U2793B-MFS-ND	8.39	7.02	5.85	—	—
ISM 2.4GHz Front End IC, DECT	20-MLF	T7026-PGH-ND	5.38	4.50	3.75	—	—
ISM/Bluetooth™ 2.4GHz Power Amplifier, 3V	20-MLF	T7023-PEQ-ND	3.87	3.24	2.70	—	—
Bluetooth™/ISM 2.4GHz Front End IC, 3V	20-MLF	T7024-PGS-ND	3.66	3.06	2.55	—	—
Universal Usable RF Power Amplifier, 135MHz to 900MHz, 3.5V	28-PSSOP	T0905-TSQCT-ND	9.68	8.10	6.75	4,000	6525.00/M
1700MHz to 2300MHz High Linearity SiGe Active Receiver Mixer, 5V Receivers for CDMA/PCS/DCS/UMTS Base Stations	16-TSSOP	T0781-6CPCT-ND	8.17	6.84	5.70	1,000	5510.00
65MHz to 300MHz SiGe IF Receiver/Demodulator	16-TSSOP	T0797-6CPCT-ND	10.32	8.64	7.20	1,000	6960.00
800MHz to 1000MHz High Linearity SiGe Active Receiver Mixer, 5V Tranceivers for Base Stations	16-TSSOP	T0780-6CPCT-ND	8.17	6.84	5.70	1,000	5510.00
800MHz to 2500MHz Direct Quadrature Modulator, 5V	16-TSSOP	T0790-6CPCT-ND	11.83	9.90	8.25	1,000	7975.00
NEW! Kits NEW!							
Demo Kit for U3741BM/U2741B	—	TMEBX741D-ND	914.38	—	—	—	—
Demo Kit for U3745BM/U2745B	—	TMEBX745B-ND	831.25	—	—	—	—

‡ For Tape & Reel part number change CT-ND to TR-ND.

8051 Microcontroller Kits

FLASH-EMULATOR1

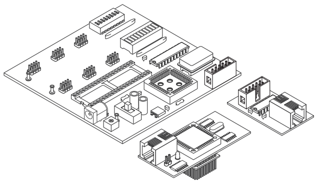
Atmel and Ceibo jointly provide a complete development tool, called Flash Emulator Kit that supports Atmel T89C51RD2 at any frequencies allowed by the device. Two working modes are available: real-time emulation and simulation.

Kit includes: • Windows software with source level debugger • On-line assembler and disassembler • RS-232 cable and 100V to 250V power supply • Flat cables for prototyping with DB-51RD2 • Options: QFP and DIP adapters

The hardware kit consists of three parts: FE-51RD2 Emulator features: • 60K of code memory • Frequency up to 20MHz/3V, 33MHz/5V • X2 mode support • Real-time emulation and simulator • MS windows debugger for -C language and assembler • Ready for the KEIL simulation environment • PLCC44 emulation headers and signal test points • RS-232 interface up to 115Kbaud

DB-51RD2 Development Board:
• DIP40 and PLCC44 sockets • Test points for Port Lines • In-system Programming (ISP) connector • Oscillator options: integrated oscillator/2-pin crystal with capacitor

MP-51RD2 ISP Microcontroller Programmer:
• RS-232 connector • 10-pin ribbon cable for ISP



FLASH-EMULATOR1-ND		**$385.70**

CAN-DEMOBOARD1 and CANADAPT28

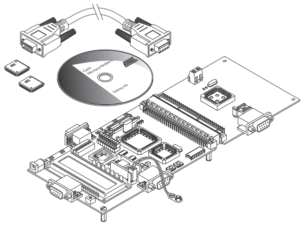
The T89C51CC01 demo-kit is a standalone application board to easily evaluate the T89C51CC01 device. Designers can use the T89C51CC01 UART connected to a PC serial port, or the CAN bus interface connected either to a CAN board plugged into a PC or a parallel port dongle able to recreate a CAN line. It is also possible to link this kit to an existing CAN High Speed network to initiate or receive CAN messages.

Kit Includes: • User's manual • CANary™ CDROM, containing a full set of documentation and associated software

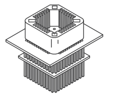
C51 Generic Demoboard features: • LCD display (2 lines of 16 characters) • Eight LED bargraph • Socket for 128kB Flash memory (2 x 64kB memory page) • Three different sockets: PLCC44, PLCC68 and DIL24 (for standard C51) • In-system Programming (ISP) capability to download HEX files into the 128kB flash • Hardware switch to activate the C51 Flash boot loader after reset • RS-232 connector • Extension connectors • On-board regulator (9V external supply)

CAN Extension Board features:
• On-board CAN transceiver in SO8 package. DIP8 socket also available for other types of CAN drivers • D-sub connectors conforms to CIA ("CAN In Automation") recommendation for CAN High Speed Bus • ADC reference voltage inputs: VAGND and VAREF • Capability to activate T89C51CC01 boot loader to perform ISP of Flash and/or EEPROM using either UART or CAN connectors

CAN-DEMOBOARD1-ND



CANADAPT28-ND

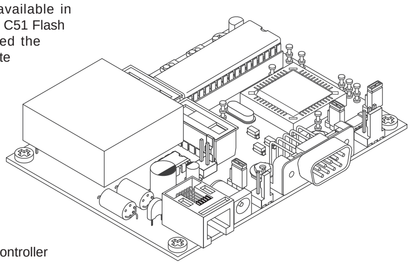


CAN-DEMOBOARD1-ND		**$131.67**
CANADAPT28-ND	*NEW!* 44 PLCC to 28 PLCC Adapter	**$66.50**

ATWEBEVK-01

The @Web Evaluation Kit allows the user to evaluate the full range of options available in integrating TCP/IP software into Atmel C51 Flash MCUs. Once the user has completed the demo he will be able to Read and Write information to and from the Flash memory of the microcontroller through the Internet.

Moreover, the user will see how all of the information recorded on the microcontroller is available using standard PC tools such as a Web browser, Hyperterminal, and Dial-up Networking.



Kit includes:

- Evaluation Board with T89C51AC2 Controller
- External speaker
- Serial RS-232 Null Modem Cable
- 9V battery and cable
- CD-ROM including documentation and software

ATWEBEVK-01-ND		**$264.67**

NEW! MP3 Player

Atmels solution for MP3 Player provides the best compromise between power consumption, cost and functionality. It consist of fully integrated standalone hard-wired MPEGI/II Layer-3 decoder with C51 microcontroller core handling dataflow control and MP3-player control.

Description: The **AT89C51SND1** Development Kit includes a development board that has been designed to demonstrate the AT89C51SND1 capability to support the following features: • MP3 song playing • Voice recording/playing • MultiMediaCard with FAT16 • USB mass storage • USB firmware upgrade • Serial DataFlash Storage Memory • A free full-featured 30-day Jungo WinDriver evaluation CD

AT89RFD-01-ND	AT89C51SND1 Reference Design	**$200.00**
AT89DVK-04-ND	Board Demo MP3 Player	**$560.00**

NEW! Smart Card Starter Kit

Features: • Starter Kit Functions in Either: Standalone Mode With the On-chip EEPROM Program Memory (T89C5121 Product Version) or On-board EEPROM Program Memory • In-system Programmable (ISP) (Using Rom Bootloader to Download hex Files into Internal Memory) • Smart Card Connector • Simm Connector • 2 LEDS • On-board Voltage Regulator With Voltage Setting • Sockets: SSOP24, DIL24 for Package Adapter • RS-232 Serial Port • Interrupt (INT1) Input • Optional Manual Reset Switch • Data, Address and Control Lines are Conveniently Brought Out On Connectors • Prototyping Area

Description: The T8xC5121 Starter Kit includes a demonstration board allowing the evaluation of the T8xC5121 Microcontroller. Designers can either run the demonstration program or their own application. The demonstration board supports communication through RS-232 serial communication mode. The board can also be used as a programmer for the T89C5121 product.

T89C5121-SK1-ND	Smart Card Starter Kit	**$132.00**

NEW! @Web Hardwired TCP/IP Ethernet Solutions

@Web LAN51H Development Kit

The @Web LA51H Development Kit is designed for testing high-speed Internet connectivity with Atmel 80C51 Flash MCU and the WIZnet i2Chip, a unique hardwired embedded Ethernet TCP/IP chip. The customer can change functions and reload firmware using In-System Programming capability. Error messages can be displayed on the LCD screen, allowing easy debugging of user's application. After evaluation, the drop-in network module (IIM7010) supplied n the kit can be re-used.

ATWEBDVK-02-ND		**$269.00**

Gateway Modules

ATWEBSEG-32-ND	For RS232 to Ethernet Gateway Module	**$39.00**
ATWEBEVK-05-ND	RS232 to Ethernet Evaluation Board	**$189.00**

@Web LAN51H Modules

Atmel provides @Web LAN51H development kits with additional modules directly connected to the @Web LAN51H development board. These additional modules can run the functions of either a Remote Power On-off Control, or Voice Transmission (VoIP), or Network Web Camera.

Remote Controller Features: • On-off Control Function Using Web Server • LED On-off Control and Text LCD Display Using Web Browser 3 x 110V - 220V Relay Switches

Voice Transmission (VoIP) Features: • Full-deplex Voice Transmission through Internet • Supports G723.1 Standard True Speech Voice Codec • Normal Microphone Input and Speaker Output • Audio DAC (MC745483) and DSP (CT8022A) • Included - Loudspeaker Connector

Network WebCam Features: • Four-channel Cmos Web Camera with Standard JPEG Coding • Video Coding: Hardware MFPEG Codec (LC82210 from Sanyo) • Video Mode: VGA, CIF, QCIF • CMOS Sensor: 1/3" Color CMOS Image Sensor (OV7620 from OmniVision), Maximum Frame Rate: 3fps with Standard C51

ATWEBDVK-02RC-ND	LAN51H and Remote Controller Kit	**$379.00**
ATWEBDVK-02VOIP-ND	LAN51H and Voice Transmission Kit	**$629.00**
ATWEBDVK-02WC-ND	LAN51H and Network WebCam Features Kit	**$899.00**

8051 Microcontroller (with Flash)

Features: • Speed: 40MHz • 3 - 8/16-Bit Timers

Memory Size			I/O	Ext. Inter-		Serial I/O			(CCP)	8-Bit			Operating		Digi-Key	Price Each		
Program	RAM	EEPROM	Pins	rupts	UART	ISP	SPI	WDT	PWM	A/D (ch.)	CAN	VCC	Temperature	Pkg.	Part No.	1	25	100
32K	256	2K	34	—	Yes	—	—	Yes	1	8	Yes	3.0V - 5.0V	-40°C to 85°C	44-VQFP	T89C51CC01CARLTIM-ND	11.07	9.27	7.73
														44-PLCC	T89C51CC01CASLSIM-ND	10.86	9.09	7.58
														44-VQFP	T89C51CC01UARLTIM-ND	11.07	9.27	7.73
														44-PLCC	T89C51CC01UASLSIM-ND	10.86	9.09	7.58
16K	256	2K	20	—	Yes	—	—	Yes	1	8	Yes	3.0V to 5.5V	-40°C to 85°C	28-TSSOP	T89C51CC02CA6KSIM-ND	9.89	8.28	6.90
														28-TSSOP	T89C51CC02UA6KSIM-ND	9.89	8.28	6.90
														28-PLCC	T89C51CC02UASITIM-ND	9.25	7.74	6.45
16K	256	—	4	10	Yes	Yes	Yes	Yes	—	—	—	4.5V to 5.5V	-40°C to 85°C	44-VQFP	T89C51RB2-RLTIM-ND	7.46	6.25	5.21
16K														44-PLCC	T89C51RB2-SLSIM-ND	7.93	6.65	5.54
32K														44-VQFP	T89C51RC2-RLTIM-ND	8.75	7.33	6.11
32K														44-PLCC	T89C51RC2-SLSIM-ND	8.49	7.11	5.93
64K	256	2K	48	7	Yes	Yes	—	Yes	—	—	—	2.7V to 3.6V	-40°C to 85°C	64-VQFP	T89C51RD2-RDTIL-ND	12.28	10.28	8.57
			32									4.5V to 5.5V		44-PLCC	T89C51RD2-SLSIM-ND	10.04	8.41	7.01
			48									4.5V to 5.5V		68-PLCC	T89C51RD2-SMSIM-ND	11.18	9.36	7.80

Jackrabbit™ Low-Cost Single-Board Computer

This high-performance single-board computer from Z-World is stocked with I/O, memory, and communication ports. Measuring just 2.5" x 3.5", the Jackrabbit is perfect for embedded control. The Jackrabbit's remarkably low price point, fast execution speed, floating point capability, and interactive debugging make it ideal for OEM applications. The Jackrabbit also offers great flexibility for applications by providing extensive RAM, I/O and code space. Software for the Jackrabbit is developed using industry-proven Dynamic C® an integrated C-language development package that includes an interactive compiler, editor and debugger — making the Jackrabbit easy to program and develop.

Model BL1800: • **Board Size:** 2.50" x 3.50" x 0.94" (64mm x 89mm x 24mm) • **Input Voltage:** 8-40VDC, switching regulator, 49 mA typ. at 24VDC • **General Purpose I/O:** 14 bi-directional, 6 inputs, 4 outputs (CMOS compatible) • **High Power Outputs:** 3 sinking (1 Amp) and 1 sourcing (500mA) • **1 Analog Input:** 9-bit resolution, 8-bit accuracy, 0.1-2.8V input range, 75ms typ. acquisition time • **2 Analog Outputs:** Filtered/buffered PWM outputs • **Processor:** Rabbit 2000, clock, 29.5MHz • **Memory:** SRAM 128K, flash 256K • **Timers:** Five 8-bit cascadable timers, one 10-bit timer with 2 match registers • **Serial Ports:** (2) RS-232 (or one with CTS/RTS) rated at 1KV ESD, (1) RS-485 rated at 15kV ESD, (1) 5V CMOS compatible (programming port), 2 serial ports can be clocked • **Serial Rate**: Selectable baud rates up to 115,200 bps (RS-232), 230,400 bps (RS-485). 5 Volt CMOS compatible port up to 7.37Mbps • **Additional Features:** watchdog/supervisor, time/date clock, and backup battery

Model BL1810: Same as BL1800, except with 14.7MHz clock, 128K flash, linear regulator (8-25V), 3 sinking (200mA) and 1 sourcing (100mA) high-voltage outputs, and CMOS port baud rate of 3.69Mbps.

Model BL1820: Same as BL1810, except no RS-485, no backup battery or battery circuitry, and 3 additional I/O

Description	Digi-Key Part No.	Price Each 1	5	25	Z-World Part No.
Model BL1800	316-1011-ND	99.00	—	—	101-0356
Model BL1810	316-1001-ND	69.07	65.00	61.00	101-0357
Model BL1820	316-1002-ND	49.05	46.00	43.00	101-0358

Jackrabbit™ Development Kit

Digi-Key Part No. 316-1000-ND (101-0363) Only **$139.00**

Includes Jackrabbit BL1810, manual, schematics, AC adapter, prototyping board, programming cable, documentation on CD ROM, additional parts, and complete Dynamic C SE software development system (not a trial version).

Rabbit 3000™ Microprocessor

The new Rabbit 3000™ is an extremely low-EMI microprocessor designed specifically for embedded control, communications, and Ethernet connectivity. The Rabbit 3000 shares its instruction set and conceptual design with the proven Rabbit 2000™.

The Rabbit 3000 is fast — running at up to 54MHz — and C-friendly, with compact code and direct software support for 1 MB of code/data space. Rabbit 3000 development tools include extensive support for Internet and network connectivity, with full source code for TCP/IP provided royalty free.

The Rabbit 3000 operates at 3.3V (with 5V tolerant I/O) and boasts 6 serial ports with IrDA, 56+ digital I/O, quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities. It also features a battery-backable real-time clock, glueless interfacing, and ultra-low power modes. Its compact instruction set and high clock speeds give the Rabbit 3000 blazingly fast performance for math, logic, and I/O.

Programming the Rabbit 3000:

Microprocessor hardware and software development is easy for Rabbit users. The Rabbit 3000 is programmed using the industry-proven Dynamic C® software development system from sister division Z-World.

Key Features:

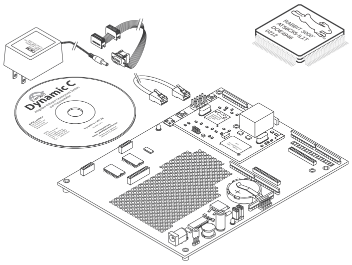
• Low-EMI: typically <10 dB µV/m @ 3m • Ultra-low power modes • 1.5-3.6V (5V tolerant I/O) • 54MHz clock speed • 56+ digital I/O • 6 serial ports supporting IrDA, SDLC/HDLC, Async, SPI • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Standard Features:

• Glueless memory and I/O interface • Direct support for 1 MB code/data space (up to 6 MB with glueless interface) • Battery-backable real-time clock • Watchdog timer • Remote boot/program • Slave port interface

Design Advantages:

• Extensive Ethernet/Internet support and royalty-free TCP/IP stack with source and sample programs • Dynamic C® development environment for real-time development and debugging • Blazingly fast performance for math, logic and I/O



Description	Digi-Key Part No.	Price Each 2	10	100	Rabbit Part No.
Rabbit 3000™ 54MHz, 128LQFP	316-1016-ND	14.50	13.13	12.50	668-0010

Rabbit 3000/RCM3000 Development Kit

Digi-Key Part No. 316-1017-ND (101-0523) Only **$299.00**

The Rabbit 3000/RCM3000 Development Kit includes an RCM3010 Ethernet core module (with Rabbit 3000 microprocessor, Flash, SRAM, Ethernet hardware), a prototyping board, complete Dynamic C SE software development system (not a trial version) with TCP/IP stack and documentation on CD-ROM, power supply, and serial cable for programming and debugging.

NEW! RabbitCore™ RCM3400 Analog Core Module

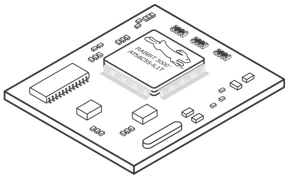
The RCM3400 analog RabbitCore Provides a processor core and analog input subsystem for OEMs to quickly integrate into custom designs. The RCM3400 features a low-EMI Rabbit 3000-based CPU subsystem running at 29.4 MHz, with 512K Flash / 512K SRAM or 256K Flash / 256K SRAM, 5 serial ports, and 8 channels of programmable gain analog input in an extremely small footprint (1.37" 1.16"/34mm x 29mm). The RCM3400 comes with a pre-assigned MAC I.D. to be Ethernet ready and the development board features 10/100 Base-T Ethernet and can be used as a reference design in conjunction with Dynamic C's royalty-free TCP/IP software libraries. Extensive demo programs and software application templates make it easy to get the RCM3400 up and running in record time.

RabbitCores mount directly on a user-designed motherboard and can interface with all manner of CMOS-compatible digital devices. Two 34-pin connectors route 47 digital I/O (shared with serial ports), power, and other signals to the motherboard. Built-in low-EMI features, including a clock spectrum spreader, practically eliminate EMI problems, helping OEMs pass CE and regulatory RF emissions test. The RCM3400 is equipped with 5V tolerant I/O, quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities. The RCM3400 also features a battery-backable real-time clock, glueless memory and I/O interfacing, and low-power "sleepy" modes. A fully enabled 8-bit slave port permits easy master-slave interfacing with another processor-based system, and an alternate I/O bus can be configured for 8 data lines and 6 address lines (shared with parallel I/O).

Features:

• 3.3V operation • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10dB µV/m@3m) • RCM3400-512K Flash/512K SRAM, RCM3410-256K Flash/256K SRAM • 8 channel 12-bit A/D with programmable gain • 47 digital I/O, alternate I/O bus • 5 serial ports (IrDA, SDLC/HDLC, Asynch, SPI) • MAC ID installed

Design Advantages: • Ready-made platform for fast time-to-market • Compact size simplifies integration • Dynamic C® development environment for real-time development and debugging • Exceptionally fast performance for math, logic, and I/O



Description	Digi-Key Part No.	Price Each 1	10	100	Rabbit Part No.
RCM3400 Core Module	316-1025-ND	79.00	66.85	60.77	101-0561
RCM3410 Core Module	316-1026-ND	59.00	49.93	45.39	101-0562

Rabbit RCM3400 RabbitCore Development Kit

Digi-Key Part No. 316-1027-ND (101-0587) Only **$399.00**

The RCM3400 Development Kit includes an RCM3400 core module, a prototyping board, AC adapter (U.S. only), 10-pin header to DE9 programming cable with integrated level-matching circuitry, complete Dynamic C SE software development system (not a trial version) with documentation on CD-ROM, a bag of accessory parts for use on the Prototyping Board.

RabbitCore™ RCM3100 Core Module

The RCM3100 RabbitCore microprocessor core module is the ideal solution for designers who want to rapidly develop and implement embedded systems. Powered by the new Rabbit 3000™ microprocessor, the compact RCM3100 boasts powerful features and a small footprint — 1.85" x 1.65" (47mm x 42 mm). The RCM3100 has 6 serial ports and operates at 29.4MHz and 3.3V (with 5V-tolerant I/O). It also has built-in low-EMI features, including a clock spectrum spreader. Available in two models, the RCM3100 is equipped with 512K each of Flash and SRAM; quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities. Two 34-pin connection headers provide 54 digital I/O shared with the 6 serial ports and alternate I/O features. The RCM3110 has 256K Flash and 128K SRAM.

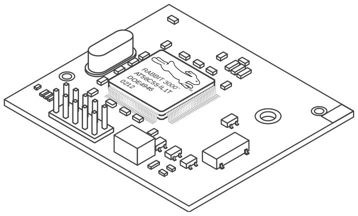
The RCM3100 features a battery-backable real-time clock, glueless memory and I/O interfacing, and ultra-low power "sleepy" modes. A fully enabled 8-bit slave port permits easy master-slave interfacing with another processor-based system, and an alternate I/O bus can be configured for 8 data lines and 6 address lines (shared with parallel I/O).

Features:

• Actual Size: 1.85" x 1.65" x 0.48" (47mm x 42mm x 12mm) • 29.4 MHz clock speed • 3.3V operation • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • RCM3100: Up to 512K Flash/512K SRAM • RCM3110: 256K Flash and 128K SRAM • 54 digital I/O • 6 serial ports (IrDA, SDLC/HDLC, Async, SPI) • Alternate I/O bus • Ultra-low power "sleepy" modes • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Design Advantages:

• Ready-made platform for fast time-to-market • Compact size simplifies integration • Pin compatible with Ethernet RCM3000 for parallel product development • Dynamic C® development environment for real-time development and debugging • Exceptionally fast performance for math, logic, and I/O



Description	Digi-Key Part No.	Price Each 1	10	100	Rabbit Part No.
RCM3100 Core Module	316-1021-ND	65.00	55.00	50.00	101-0517
RCM3110 Core Module	316-1022-ND	45.00	38.00	35.00	101-0518

Rabbit RCM3100 RabbitCore Development Kit

Digi-Key Part No. 316-1020-ND (101-0533) Only **$239.00**

The RCM3100 Development Kit includes an RCM3110 core module (with Rabbit 3000 microprocessor, Flash, SRAM, serial ports, and I/O ports), a prototyping board, complete Dynamic C SE software development system (not a trial version) with documentation on CD-ROM, AC adapter (U.S. only), and serial cable for programming and debugging.

RabbitCore™ RCM3000 Core Module

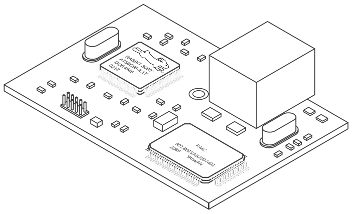
The RCM3000 RabbitCore is Rabbit Semiconductor's most powerful and feature-packed microprocessor core module to date. Powered by the new Rabbit 3000™ — the "EMI-Free microprocessor" — the RCM3000 is the ideal option for designers who want to rapidly develop and implement embedded systems with fully integrated Ethernet connectivity.

Measuring only 2.73" x 1.85" (69mm x 47mm), the RCM3000 operates at 3.3V (with 5V-tolerant I/O) and features 6 serial ports and also has built-in low-EMI features, including a clock spectrum spreader.

Available in two models, the RCM3000 is equipped with an integrated 10Base-T Ethernet port, up to 512K each of Flash and SRAM, quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities. Two 34-pin connection headers provide 52 digital I/O shared with the 6 serial ports and alternate I/O features. The RCM3010 has 256K Flash and 128K SRAM. The RCM3000 features a battery-backable real-time clock, glueless memory and I/O interfacing, and ultra-low power "sleepy" modes. A fully enabled slave port permits easy master-slave interfacing with another processor-based system, and an alternate I/O bus can be configured for 8 data lines and 6 address lines (shared with parallel I/O).

Features: • Actual Size: 2.73" x 1.85" x .086" (69mm x 47mm x 22mm) • 29.4 MHz clock speed • 10Base-T • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • Built-in Ethernet for simplified connectivity • 3.3V operation • RCM3000: Up to 512K Flash/512K SRAM • RCM3010: 256K Flash and 128K SRAM • 52 digital I/O • 6 serial ports (IrDA, SDLC/HDLC, Async, SPI) • Alternate I/O bus • Ultra-low power "sleepy" modes • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Design Advantage: • Ready-made platform for fast time-to-market • Dynamic C® development environment for real-time development and debugging



Description	Digi-Key Part No.	Price Each 1	10	100	Rabbit Part No.
RCM3000 Core Module	316-1018-ND	83.21	73.74	67.42	101-0507
RCM3010 Core Module	316-1019-ND	63.29	54.71	52.57	101-0508

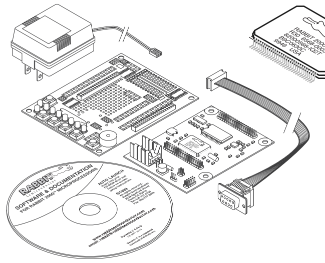
Rabbit 2000™
8-Bit Microprocessor

The Rabbit 2000 is a high-performance, 8-bit microprocessor distinguished by its C-friendly instruction set, fast number crunching ability and numerous on-chip peripherals.

Built-in features include 4 serial ports, a slave port, remote bootstrap capability, advanced clocking options, and glueless interfacing to both memory and I/O — making hardware design easy. With a maximum clock speed of 30 MHz, and optimized C-oriented instruction set, the Rabbit 2000 outperforms alternative 16 and 32-bit processors at a much lower system cost. Supported by industry-proven Dynamic C® from Z-World, the Rabbit 2000 can handle C-language applications of approximately 1 megabyte (50,000+ C statements). Dynamic C provides an interactive compiler, editor, and source-level debugger. Numerous application libraries are also included. This close integration of hardware and software shortens development time and makes programming much easier.

Rabbit 2000 Advantages

• Architecture for enhanced math performance • Glueless memory and I/O interface • Remote cold boot • Slave interface • 4 serial ports • 40-plus multifunctional I/O pins • Battery-backable real-time clock • Watchdog timer • Five 8-bit cascadable timers and 2 10-bit timers with match registers • 488 microsecond periodic interrupt • Clocking options for low power applications



Rabbit 2000™ Development Kit

Digi-Key Part No. 316-1003-ND (101-0359) Only **$139.00**

Kit includes Jackrabbit single board computer, manual, schematics, AC adapter, prototyping board, programming cable, documentation on CD ROM, additional parts, and complete Dynamic C SE software development system (not a trial version).

Description	Digi-Key Part No.	Price Each 2	10	100	Rabbit Part No.
Rabbit 2000	316-1004-ND	12.75	11.75	10.75	668-0003

Rabbit 2000™
8-Bit Microprocessor with TCP/IP Support

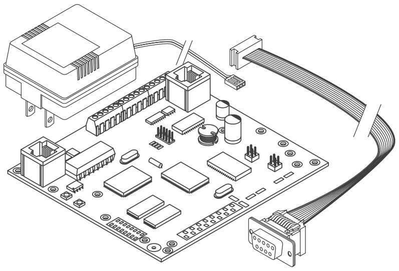
The Rabbit 2000 is now available with full TCP/IP support! The Rabbit 2000 is a high-performance, 8-bit microprocessor distinguished by its C-friendly instruction set, fast number crunching ability and numerous on-chip peripherals.

Built-in features include 4 serial ports, a slave port, remote bootstrap capability, advanced clocking options, and glueless interfacing to both memory and I/O. Full TCP/IP source code for the Rabbit 2000 is provided with Dynamic C® software on CD-ROM. ICMP, HTTP, DCHP (includes facilities for SSI, CGI routines, cookies, and basic authentication), SMTP, FTP and TFTP (client and server) capabilities are provided. Ethernet drivers for the Realtek NE2000 compatible chipset are also included.

Supported by industry-proven Dynamic C, the Rabbit 2000 handles C-language applications of approximately 1 megabyte (50,000+ C statements). Software development is easier and fast using Dynamic C's interactive compiler, editor, and source-level debugger. Numerous application libraries are also included.

Rabbit 2000 TCP/IP Design Advantages

• Cost-effective – no run-time royalties! • Develop robust 10baseT Ethernet applications • Write directly to TCP or UDP sockets • Development board includes RS-232 and RS-485 ports, 4 high-current outputs (200mA) 4 digital inputs, 512K flash, 128K SRAM, Five 8-bit cascadable timers and 2 10-bit timers with match registers, a real time battery-backable clock and 10baseT Ethernet interface



Rabbit 2000™ TCP/IP Development Kit

Digi-Key Part No. 316-1005-ND (101-0401) Only **$199.00**

Kit includes Rabbit 2000™ TCP/IP development board (with Rabbit 2000 microprocessor, flash, SRAM, Ethernet hardware, 8 digital I/O), demonstration board, power supply, PC serial cable for real-time debugging, and complete Dynamic C SE software development system (not a trial version) with TCP/IP on CD ROM.

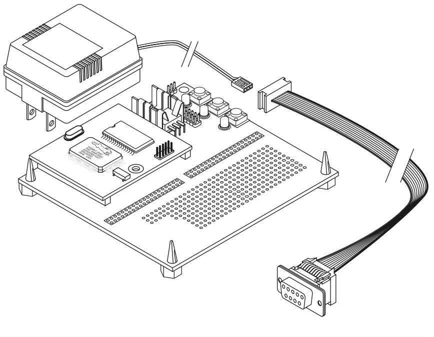
Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Rabbit 2000 TCP/IP Toolkit	316-1006-ND	99.00	101-0403

RabbitCore 2000™
Microprocessor Core Module

A more powerful alternative to a microcontroller, the RabbitCore 2000 will jump-start your board design. Included are general-purpose I/O memory I/O interface, backup interface and master-slave control pins. Dual 40-pin male connectors on the RabbitCore 2000 mate with common dual-row 2mm sockets on your board. Flash and SRAM are on-board, providing a development-ready memory interface. Five parallel ports provide up to 40 parallel I/O lines that may be used to interface to nearly any digital device. Its 8-bit data bus lines, 13 address lines and necessary strobes are provided to easily interface communications peripherals, I/O registers or small memories as I/O devices, external memory.

Programs are created using Z-World's Dynamic C®, a C language environment that includes an editor, compiler and debugger.

The RabbitCore 2000 is ideal for reducing production costs, prototyping a new design, and time-to-market of your product.



RabbitCore 2000

• **Board Size:** 1.90" x 2.30" x 0.50" (48.3mm x 58.4mm x 12.7mm) • **Input Voltage:** 4.75-5.25V DC • **Current:** 98mA at 18.432 MHz, 5V DC (130mA at 25.8 MHz, 5V DC) • **Processor:** Rabbit 2000 • **General Purpose I/O:** 40 parallel I/O lines grouped in five 8-bit ports (shared with serial ports) • **Memory, I/O Interface:** 13 Address lines, 8 data lines, I/0 read/write, buffer enable, status, clock • **Additional Digital Inputs:** (2), start up mode (for master/slave), reset in • **Additional Digital Outputs:** Watchdog output, reset out • **Clock:** 18.432 MHz - 25.8 Mhz (see versions) • **SRAM:** 128K - 512K, (see versions) • **Flash:** 256K • **Timers:** Five 8-bit cascadable timers, one 10-bit timers with 2 match registers • **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 806,400bps, maximum synchronous is 6.45Mbps. Two ports are configurable as clocked ports • **Slave Interface:** Allows the RabbitCore 2000 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog supervisor, time/date clock, backup battery circuitry and connections for user-supplied battery. Mates to your board via dual 40-pin male connectors.

RabbitCore 2000™ Development Kit

Digi-Key Part No. 316-1007-ND (101-0398) Only **$169.00**

Kit includes a model RCM2020, manual with schematics and documentation on CD-ROM, getting started guide, AC adapter, prototyping board, programming cable, and complete Dynamic C SE software development system (not a trial version) on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2000 (25.8 MHz clock and 512K SRAM)	316-1008-ND	69.00	101-0404
RCM2010 (25.8 MHz clock and 128K SRAM)	316-1009-ND	49.00	101-0405
RCM2020 (18.432 MHz clock and 128K SRAM)	316-1010-ND	39.00	101-0383

RabbitCore™ RCM2200 Microprocessor Core Module

At only 1.6" x 2.3" x 0.86", this compact microprocessor core module with integrated Ethernet facilitates rapid development of embedded systems, giving designers a complete package for control and communication with instant local or worldwide connectivity.

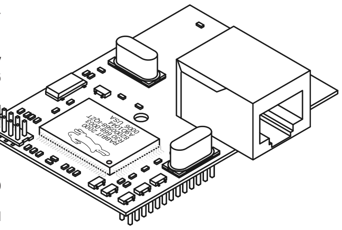
Included are general-purpose I/O, memory I/O interface, battery-backable clock, cold boot capability, and a slave mode operation. The integrated Ethernet port frees designers from the limitations of serial port communications. Embedded systems using the RCM2200 can be controlled and monitored (as well as programmed and debugged when using appropriate accessory hardware) across any network or the Internet. Two 26-pin male connectors on the RCM2200 mate with common dual-row 2mm sockets on your board. Flash and SRAM are onboard, providing a development-ready memory interface. 26 parallel I/O lines may be used to interface to almost any digital device. 8-bit bi-directional data bus lines, 4 address lines, and the necessary strobes are provided to easily interface communications peripherals, input or output registers, or small memories as I/O devices.

Programs are created using Z-World's Dynamic C®, a user-friendly C-language environment that includes an editor, compiler, and debugger with royalty-free TCP/IP stack in source form. To permit parallel development, the RCM2200 is pin-compatible with the non-Ethernet RCM2300.

RabbitCore RCM2200

• **Board Size:** 1.60" x 2.30" x 0.86" (41 mm x 59 mm x 22 mm) • **Input Voltage:** 4.75–5.25V DC • **Current:** 134 mA at 5 V DC • **Processor:** Rabbit 2000 • **General Purpose I/O:** 26 parallel I/O lines grouped in five 8-bit ports (shared with serial ports) • **Memory, I/O Interface:** 4 address lines, 8 data lines, I/O Read-Write • **Additional Digital Inputs:** Startup mode, reset • **Additional Digital Outputs:** Status, reset • **Clock:** 22.1 MHz • **SRAM:** 128K, surface mount • **Flash:** 256K, surface mount • **Timers:** Five 8-bit timers, one 10-bit timer. Five timers are cascadable in pairs • **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 691,000 bps, max synchronous is 5.53 Mbps. Two ports are configurable as clocked ports • **Slave Interface:** Allows the RCM2200 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog/supervisor, time/date clock, backup battery circuitry, and connection for user-supplied battery



RabbitCore™ RCM2200 Development Kit

Digi-Key Part No. 316-1012-ND (101-0475) Only **$239.00**

Kit includes RCM2200 core module (Ethernet, 256K Flash, 128K SRAM), Getting Started manual with schematics, DC power supply (U.S. only), prototyping board, PC serial cable, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2200	316-1013-ND	55.00	101-0454

RabbitCore™ RCM2300 Microprocessor Core Module

This ultra-compact microprocessor core module measures only 1.15" x 1.60" x 0.47", opening up a world of new design options for economical control products.

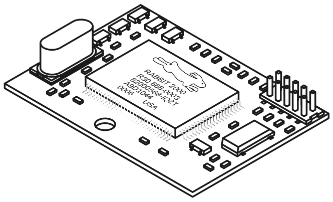
Included are general-purpose I/O, memory I/O interface, battery-backable clock, cold boot capability, and a slave mode operation. Two 26-pin male connectors on the RCM2300 mate with common dual-row 2mm sockets on your board. Flash and SRAM are onboard, providing a development-ready memory interface. 29 parallel I/O lines may be used to interface to almost any digital device. 8-bit bi-directional data bus lines, 4 address lines, and the necessary strobes are provided to easily interface communications peripherals, input or output registers, or small memories as I/O devices.

Programs are created using Z-World's Dynamic C®, a user-friendly C-language environment that includes an editor, compiler and debugger. To permit parallel development, the RCM2300 is pin-compatible with the Ethernet RCM2200.

RabbitCore RCM2300:

• **Board Size**: 1.15" x 1.60" x 0.47" (29 mm x 41 mm x 12 mm) • **Input Voltage**: 4.75–5.25V DC • **Current**: 108 mA at 5 V DC • **Processor**: Rabbit 2000 • **General Purpose I/O**: 29 parallel I/O lines grouped in five 8-bit ports (shared with serial ports) • M**emory, I/O Interface**: 4 address lines, 8 data lines, I/O Read-Write (extra address line and Buffer Enable via separate connections) • **Additional Digital Inputs**: Startup mode, reset • **Additional Digital Outputs**: Status, reset • **Clock**: 22.1 MHz • **SRAM**: 128K, surface mount • **Flash**: 256K, surface mount • **Timers**: Five 8-bit timers, one 10-bit timer. Five timers are cascadable in pairs • **Serial Ports**: 4 CMOS-compatible ports. Max asynchronous baud rate is 691,000 bps, max synchronous is 5.53 Mbps. Two ports are configurable as clocked ports • **Slave Interface**: Allows the RCM2300 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog/supervisor, time/date clock, backup battery circuitry, and connection for user-supplied battery



RabbitCore™ RCM2300 Development Kit

Digi-Key Part No. 316-1015-ND (101-0480) Only **$199.00**

Kit includes RCM2300 core module (256K Flash, 128K SRAM), Getting Started manual with schematics, DC power supply (U.S. only), prototyping board, PC serial cable, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2300	316-1014-ND	42.00	101-0453

RabbitCore™ RCM3200 Microprocessor Core Module

The RCM3200 RabbitCore microprocessor core module is the ideal option for designers who want to rapidly develop and implement embedded systems with fully integrated 10/100Base-T Ethernet connectivity. Measuring only 2.73" x 1.85 " (69 x 47mm), the RCM3200 operates at 3.3V with 5V tolerant I/O and features 6 serial ports. Built-in low EMI features, including a clock spectrum spreader, practically eliminate EMI problems, helping OEMs pass CE and regulatory RF emissions test.

Powered by the Rabbit 3000 microprocessor running at 44.2 MHz, the RCM3200 is equipped with 512K Flash memory, 512K program execution SRAM and 256K data SRAM, quadrature decoder, PWM outputs, and pulse capture capabilities. TWO 34-pin connection headers provide 52 digital I/O shared with the 6 serial ports and alternate I/O features. The integrated Ethernet port allows real-time local or worldwide connectivity.

The RCM3200 features a battery-backable real-time clock, glueless memory and I/O interfacing, and low-power "sleepy" modes. Efficient hardware and software integration facilitates rapid design and development. User programs can be compiled, executed, and debugged using Dynamic C and a programming cable-no in-circuit emulator is required.

Designing with RabbitCores: RabbitCores are powered by high-peformance 8-bit Rabbit microprocessors with extensive integrated features and a C-friendly instruction set designed for use with the Dynamics C® development system. Embedded systems using the Ethernet RabbitCore module can be controlled and monitored (as well as programmed and debugged when using appropriate accessory hardware) across any network or the Internet.

Programming the RCM3200:

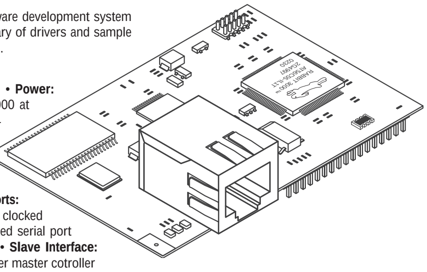
Programs are developed using our industry-proven Dynamics C software development system (SE version included in low-cost development kits). An extensive library of drivers and sample programs is provided, along with royalty-free TCP/IP stack with source.

RabbitCore RCM3200:

• **Board Size:** 2.73" x 1.85" x 0.86" (69 mm x 47 mm x 22 mm) • **Power:** 3.15–3.45V DC • **Current:** 255 mA at 3.3V • **Processor:** Rabbit 3000 at 44.2 MHz • **General Purpose I/O:** 52 digital I/O (44 configurable I/O, 4 fixed inputs, and 4 fixed outputs) • **Additional Digital Inputs:** 2 Startup Mode, Reset in • **Additional Digital Outputs:** Status, Reset out • **Real-Time Clock:** Yes • **SRAM:** 512K program + 256K data • **Flash:** 512K • **Timers:** Ten 8-bit timers (6 cascadable fom the first) and one 10-bit timer with 2 match registers • **Serial Ports:** 6 CMOS-compatible: 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC (with IrDA), 1 asynchronous clocked serial port dedicated for programming, Support for MIR/SIR IrDA transceiver • **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master cotroller

Additional Features:

Ethernet Port, Watchdog/Supervisor, Pulse-Width Modulators, Quadrature Decoder, Real-Time Clock, and Backup Battery



RabbitCore™ RCM3200 Low-Cost Development Kit

Digi-Key Part No. 316-1023-ND (101-0552) Only **$349.00**

Kit includes RCM3200 RabbitCore, Getting Started manual, DC power supply (U.S. only), prototyping board, Serial Cable for Programming and debugging, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Module RCM3200 MPU	316-1024-ND	89.00	101-0520

NEW! RabbitCore™ RCM2100 Microprocessor Core Module

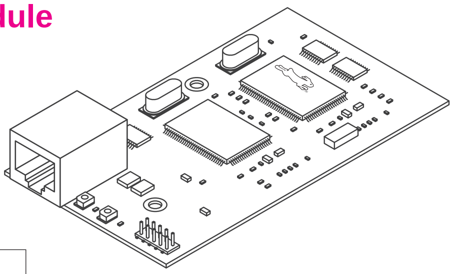
The RCM2100 is our full-featured RabbitCore microprocessor core module with integrated Ethernet. The RCM2100 features 512K of Flash memory and 512K of SRAM, as well as buffered external memory-addressing capability. The 34 parallel user I/O shared with 4 serial ports make local control and communication a breeze.

Features:

• Ethernet • 3.5" x 2.0" x 0.86" • 512K SRAM • 512K Flash • 34 general purpose I/O

RabbitCore RCM2100 Specifications:

• **Microprocessor:** Rabbit 2000 at 22.1 MHz • **General Purpose I/O:** 40 parallel I/O (20 configurable I/O, 8 fixed inputs, and 6 fixed outputs) • **Additional Inputs:** 2 Startup Mode, Reset in • **Additional Outputs:** Status, Clock, Watchdog Out, Reset out • **Memory I/O:** 13 buffered address, 8 buffered data, plus I/O Read-Write and Buffer Enable • **Serial Ports:** four 5V CMOS-compatible; 2 configurable as clocked ports • **Serial Rate:** Max. burst rate = CLK/32 Max. sustained rate = Burst/2 • **Connectors**: Two 2 x 20, 2mm IDC headers • **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master controller • **Real-Time Clock:** Yes • **Timers:** Five 8-bit timers (4 cascadable from the first) and one 10-bit timer with 2 match registers • **Watchdog/Supervisor**: Yes • **Power**: 4.75-5.25VDC, 140mA • **Operating Temp**: -40°C to +70°C • **Humidity**: 5-95%, non-condensing • **Board Size**: 3.5" x 2.0" x 0.86" (89 x 51 x 22mm)



RabbitCore™ 2000/RCM2100 Low-Cost Development Kit

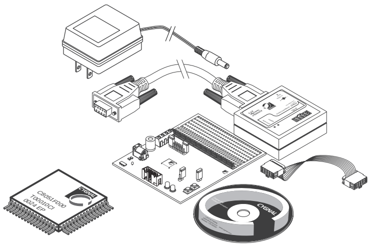
Digi-Key Part No. 316-1028-ND (101-0451) Only **$279.00**

Jumpstart your evaluation and design efforts with a complete development kit, which includes RCM2100 microprocessor core module, prototyping board, Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual, and AC adapter (U.S. Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Module RCM2100 MPU	316-1029-ND	89.00	101-0434

20/25MIPS 8051 FLASH Microcontrollers

with JTAG Debugging and Precision Analog Data Converters



C8051F000 Family

This family features up to a 25MIPS 8051 code-compatible CPU, in-system programming/debugging, plus precision analog data converters and a rich complement of digital peripherals. There is up to 32K bytes of in-system programmable FLASH memory and up to 2304 bytes of SRAM. Built-in debug support and IEEE 1149.1 Boundary Scan circuitry enables low-cost, in-system debugging via JTAG interface (see Development Kit). On-board hardware digital peripherals include UART, SMBus™/I2C™, SPI™ serial interfaces; four 16-bit timers, and a five-channel Programmable Counter Array (PCA) useful for PWM and general purpose timing applications. The multi-channel 100ksps 10-bit or 12-bit SAR-type ADCs can be operated in either single-ended or differential input modes. All family members have two 12-bit DACs, programmable voltage comparator(s), temperature sensor and voltage reference.

Integrated Circuits																			Development Kits		
															Cut Tape Price Each						
MIPS	Flash Bytes	RAM Bytes	SMB/ I2C	SPI	UART	16-Bit Timers	PCA Chnls	DIG I/O	ADC Bits	A/C Ch.	Temp. Sensor	D/A Ch.	Pkg.	Digi-Key Part No.*	1	25	100	Cygnal Part No.	Digi-Key Part No.	Price Each	Cygnal Part No.
20	32k	256	√	√	1	4	5	32	12	8	√	2	64-TQFP	336-1000-1-ND	22.17	15.95	12.66	C8051F000	336-1014-ND	99.00	C8051F000DK-U
20	32k	256	√	√	1	4	5	16	12	8	√	2	48-TQFP	336-1001-1-ND	21.81	15.69	12.45	C8051F001			
20	32k	256	√	√	1	4	5	8	12	4	√	2	32-LQFP	336-1002-1-ND	21.48	15.46	12.27	C8051F002			
25	32k	2304	√	√	1	4	5	32	12	8	√	2	64-TQFP	336-1003-1-ND	23.76	17.10	13.57	C8051F005	336-1017-ND	99.00	C8051F005DK-U
25	32k	2304	√	√	1	4	5	16	12	8	√	2	48-TQFP	336-1004-1-ND	23.13	16.64	13.21	C8051F006			
25	32k	2304	√	√	1	4	5	8	12	4	√	2	32-LQFP	336-1041-1-ND	22.59	16.25	12.90	C8051F007			
20	32k	256	√	√	1	4	5	32	10	8	√	2	64-TQFP	336-1005-1-ND	20.76	14.94	11.85	C8051F010	336-1019-ND	99.00	C8051F010DK-U
20	32k	256	√	√	1	4	5	16	10	8	√	2	48-TQFP	336-1006-1-ND	20.37	14.66	11.63	C8051F011			
20	32k	256	√	√	1	4	5	8	10	4	√	2	32-LQFP	336-1007-1-ND	19.83	14.27	11.32	C8051F012			
25	32k	2304	√	√	1	4	5	32	10	8	√	2	64-TQFP	336-1030-1-ND	22.44	16.15	12.81	C8051F015	336-1037-ND	99.00	C8051F015DK-U
25	32k	2304	√	√	1	4	5	16	10	8	√	2	48-TQFP	336-1031-1-ND	22.08	15.89	12.61	C8051F016			
25	32k	2304	√	√	1	4	5	8	10	4	√	2	32-LQFP	336-1042-1-ND	21.84	15.71	12.47	C8051F017			
25	16k	1280	√	√	1	4	5	32	10	8	√	—	64-TQFP	336-1048-1-ND	18.12	13.04	10.35	C8051F018			
25	16k	1280	√	√	1	4	5	16	10	8	√	—	48-TQFP	336-1049-1-ND	17.46	12.56	9.97	C8051F019			

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

C8051Fx20 Family

These full featured MCU's feature up to a 50MIPS 8051 code-compatible CPU as well as in-system programming/debugging. It is available in a 100-pin TQFP with 64 digital I/O, has a fully parallel External Memory Interface (EMIF) for data storage, two UART's, an SMBus/I2C, and a SPI Bus.

There are two independent ADC's, one 12-bit 100ksps and the other 8-bit 500ksps. Each device also has two 12-bit DAC's, a voltage reference, and a temperature sensor.

The 'Fx20 family members have up to 128K bytes of in-system programmable FLASH memory and up to 8448 bytes of SRAM. C8051Fx20 family is perfect for compute intensive, mixed-signal embedded applications.

Integrated Circuits																					Development Kits		
																	Cut Tape Price Each						
MIPS	Flash Bytes	RAM Bytes	SMB/ I2C	SPI	UART	16-Bit Timers	PCA Chnls	DIG I/O	ADC1 Bits	ADC1 Ch.	ADC2 Bits	ADC2 Ch.	Temp. Sensor	D/A Ch.	Other	Pkg.	Digi-Key Part No.*	1	25	100	Cygnal Part No.	Digi-Key Part No.	Price Each	Cygnal Part No.
25	64k	4352	√	√	2	5	5	64	12	8	8	8	√	2	EMIF	100-TQFP	336-1032-1-ND	31.35	22.56	17.90	C8051F020	336-1038-ND	129.00	C8051F020DK-U
25	64k	4352	√	√	2	5	5	32	12	8	8	8	√	2	EMIF	64-TQFP	336-1033-1-ND	30.23	21.75	17.26	C8051F021			
25	64k	4352	√	√	2	5	5	64	10	8	8	8	√	2	EMIF	100-TQFP	336-1034-1-ND	24.93	17.94	14.24	C8051F022			
25	64k	4352	√	√	2	5	5	32	10	8	8	8	√	2	EMIF	64-TQFP	336-1035-1-ND	23.16	16.67	13.23	C8051F023			
50	128k	8448	√	√	2	5	6	64	12	8	8	8	√	2	PLL, EMIF	100-TQFP	336-1059-1-ND	28.11	22.31	19.24	C8051F124	336-1058-ND	149.00	C8051F124DK-U
50	128k	8448	√	√	2	5	6	32	12	8	8	8	√	2	PLL, EMIF	64-TQFP	336-1060-1-ND	37.61	27.06	21.47	C8051F125			
50	128k	8448	√	√	2	5	6	64	10	8	8	8	√	2	PLL, EMIF	100-TQFP	336-1061-1-ND	35.81	25.76	20.45	C8051F126			
50	128k	8448	√	√	2	5	6	32	10	8	8	8	√	2	PLL, EMIF	64-TQFP	336-1062-1-ND	34.44	24.78	19.66	C8051F127			

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

C8051F040 Family with CAN Bus

The C8051F040 family features the same 25MIPS 8051 code-compatible CPU, in-system programming/debugging, and analog and digital peripherals. In addition, it has an integrated CAN 2.0B controller with 32 message objects, each with its own filter mask. The 'F040 parts also have a +/- 60V Programmable Gain Difference Amplifier.

Available in a 100-pin or 64-pin TQFP with up to 64 Digital I/O, it also has a fully parallel External Memory Interface (EMIF) for data storage, two UART's, a SPI Bus, and an SMBus. There are two independent ADC's, one 12-bit 100ksps, and the other 8-bit 500ksps each with its own input multiplexer, as well as two 12-bit DAC's, a voltage reference, and a temperature sensor.

All 'F040 family members have 64K bytes of in-system programmable FLASH memory and 4352 bytes of SRAM.

Integrated Circuits																					Development Kit		
																	Cut Tape Price Each						
MIPS	Flash Bytes	RAM Bytes	SMB/ I2C	SPI	UART	16-Bit Timers	PCA Chnls	DIG I/O	ADC1 Bits	ADC1 Ch.	ADC2 Bits	ADC2 Ch.	Temp. Sensor	D/A Ch.	Other	Pkg.	Digi-Key Part No.*	1	25	100	Cygnal Part No.	Digi-Key Part No.	Price Each	Cygnal Part No.
25	64k	4352	√	√	2	5	6	64	12	13	8	8	√	2	60V PGA	100-TQFP	336-1051-1-ND	33.71	24.25	19.25	C8051F040	336-1050-ND	459.00	C8051F040DK-U
25	64k	4352	√	√	2	5	6	32	12	13	8	8	√	2	60V PGA	64-TQFP	336-1052-1-ND	32.67	23.50	18.65	C8051F041			
25	64k	4352	√	√	2	5	6	64	10	13	8	8	√	2	60V PGA	100-TQFP	336-1053-1-ND	30.51	21.95	17.42	C8051F042			
25	64k	4352	√	√	2	5	6	32	10	13	8	8	√	2	60V PGA	64-TQFP	336-1054-1-ND	27.82	20.01	15.88	C8051F043			

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

C8051F200 Family

The C8051F200 family offers a 25MIPS 8051 CPU, in-system programmability, and in-system debugging capabilities. All family members have 8K bytes of in-system programmable FLASH and up to 1280 bytes of SRAM. Built-in debug support circuitry enables low-cost, in-system debugging via JTAG interface (see Development Kit).

On-board hardware digital peripherals include UART and SPI™ serial interfaces and three 16-bit timers. Optional analog peripherals include up to a 12-bit 100ksps ADC and two comparator(s). Each I/O port pin can be configured in firmware as either digital I/O or as an ADC input. Ideal for a wide range of general purpose, embedded applications.

Integrated Circuits																Development Kits		
												Cut Tape Price Each						
MIPS	Flash Bytes	RAM Bytes	SPI	UART	16-Bit Timers	DIG I/O	ADC Bits	A/D Ch.	Other	Pkg.	Digi-Key Part No.*	1	25	100	Cygnal Part No.	Digi-Key Part No.	Price Each	Cygnal Part No.
25	8k	1280	√	1	3	32	12	32	2 Comparators	48-TQFP	336-1036-1-ND	13.22	9.51	7.55	C8051F206	336-1040-ND	99.00	C8051F206DK-U
25	8k	256	√	1	3	32	8	32	2 Comparators	48-TQFP	336-1008-1-ND	9.21	6.62	5.26	C8051F220	336-1024-ND	99.00	C8051F226DK-U
25	8k	256	√	1	3	22	8	22	2 Comparators	32-LQFP	336-1009-1-ND	8.77	6.31	5.00	C8051F221			
25	8k	1280	√	1	3	32	8	32	2 Comparators	48-TQFP	336-1010-1-ND	9.71	6.99	5.54	C8051F226			
25	8k	256	√	1	3	32	—	—	2 Comparators	48-TQFP	336-1011-1-ND	8.71	6.26	4.97	C8051F230			
25	8k	256	√	1	3	22	—	—	2 Comparators	32-LQFP	336-1012-1-ND	8.29	5.97	4.73	C8051F231			
25	8k	1280	√	1	3	32	—	—	2 Comparators	48-TQFP	336-1013-1-ND	9.18	6.60	5.24	C8051F236			

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

20/25MIPS 8051 FLASH Microcontrollers
with JTAG Debugging and Precision Analog Data Converters *(Cont.)*

C8051F300 Family

Available in the tiny 3 x 3mm 11-pin MLP package (PDIP for prototyping) as well as the 5 x 5 28-pin MLP, the C8051F300 devices offer the same 25MIPS 8051 CPU, in-system programmability, and debugging capabilities found in Cygnal's other MCUs.

The 'F300 family members have up to 16K bytes of in-system programmable FLASH and up to 1280 bytes of SRAM. On-board hardware digital peripherals include UART, SMBus/I2C, and SPI serial interfaces, up to a five channel Programmable Counter Array and up to four 16-bit timers. The calibrated 2% oscillator supports UART operation without an external crystal oscillator. Analog peripherals consist of a 10-bit or 8-bit ADC, a temperature sensor, and low-power comparator(s). Each I/O port pin can be configured in firmware as either digital I/O or analog inputs. Ideal for a wide range embedded applications where small footprint and low power are key.

Integrated Circuits																			*Development Kits*		
MIPS	**Flash Bytes**	**RAM Bytes**	**SMB/ I2C**	**SPI**	**UART**	**16-Bit Timers**	**PCA Chnls**	**DIG I/O**	**ADC Bits**	**A/D Ch.**	**Temp. Sensor**	**Other**	**Pkg.**	**Digi-Key Part No.***	**Cut Tape Price Each**			**Cygnal Part No.**	**Digi-Key Part No.**	**Price Each**	**Cygnal Part No.**
															1	**25**	**100**				
25	2k	256	√	—	1	3	1	8	—	—	—	—	11-MLP	336-1064-1-ND	4.46	3.18	2.55	C8051F305	336-1047-ND	99.00	C8051F300DK-U
25	4k	256	√	—	1	3	1	8	—	—	—	—	11-MLP	336-1063-1-ND	5.27	3.76	3.01	C8051F304			
25	8k	256	√	—	1	3	3	8	8	8	√	2% Osc	11-MLP	336-1043-1-ND	6.61	4.72	3.78	C8051F300			
25	8k	256	√	—	1	3	3	8	8	8	√	2% Osc	14-DIP	336-1050-5-ND†	6.60	—	—	C8051F300P			
25	8k	256	√	—	1	3	3	8	—	—	—	2% Osc	11-MLP	336-1044-1-ND	6.30	4.50	3.60	C8051F301			
25	8k	256	√	—	1	3	3	8	8	8	√	—	11-MLP	336-1045-1-ND	6.25	4.46	3.57	C8051F302			
25	8k	256	√	—	1	3	3	8	—	—	—	—	11-MLP	336-1046-1-ND	6.00	4.28	3.43	C8051F303			
25	8k	768	√	√	1	4	3	17	10	16	√	2% Osc	20-MLP	336-1069-1-ND *NEW!*	7.87	5.62	4.50	C8051F330	336-1068-ND *NEW!*	99.00	C8051F330DK-U
25	8k	768	√	√	1	4	3	17	10	16	√	2% Osc	24-DIP	336-1071-5-ND† *NEW!*	7.88	—	—	C8051F330P			
25	8k	768	√	√	1	4	3	17	—	—	—	2% Osc	20-MLP	336-1070-1-ND *NEW!*	7.06	5.04	4.03	C8051F331			
25	16k	1280	√	√	1	4	5	29	10	21	√	2% Osc	32-LQFP	336-1056-1-ND	10.98	7.85	6.28	C8051F310	336-1055-ND	99.00	C8051F310DK-U
25	16k	1280	√	√	1	4	5	25	10	17	√	2% Osc	28-MLP	336-1057-1-ND	9.95	7.11	5.68	C8051F311			

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing. † Dip version for development purposes.

NEW! C8051F320 Family With USB

The C8051F320 devices feature an integrated USB 2.0 function controller with integrated PHY and clock circuits. No crystal or external components are required.

The devices also include a 25MIPS 8051 code-compatible CPU, in-system programming/debugging, 16K bytes Flash, 2304 Bytes RAM, a 10-bit ADC and many other peripherals. Available in the tiny 5 x 5mm 28-pin MLP package or 32-pin LQPF, these devices provide a true single-chip solution for embedded USB applications.

Integrated Circuits																			*Development Kit*		
MIPS	**Flash Bytes**	**RAM Bytes**	**SMB/ I2C**	**SPI**	**UART**	**16-Bit Timers**	**PCA Chnls**	**DIG I/O**	**ADC Bits**	**A/D Ch.**	**Temp. Sensor**	**Other**	**Pkg.**	**Digi-Key Part No.***	**Cut Tape Price Each**			**Cygnal Part No.**	**Digi-Key Part No.**	**Price Each**	**Cygnal Part No.**
															1	**25**	**100**				
25	16k	2304	√	√	1	4	5	25	10	17	√	1.5% Osc	32-LQFP	336-1066-1-ND	13.67	9.77	7.81	C8051F320	336-1065-ND	237.60	C8051F320DK-U
25	16k	2304	√	√	1	4	5	21	10	13	√	1.5% Osc	28-MLP	336-1067-1-ND	13.00	9.29	7.43	C8051F321			

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

SENSORY

Interactive Speech™
Voice Extreme™ Toolkit

Voice Extreme is a programmable module and suite of development tools for building interactive speech applications quickly and easily. Using a highly integrated, low cost chip, developers can write programs in VE-C, a high-level language very similar to ANSI-C. VE-C provides access to numerous voice and audio technologies, in addition to hardware features such as I/O ports, timers and an RS-232 interface.

A Voice Extreme application consists of a program file plus any data files it needs, linked together into a binary image file that can be downloaded to a 2Mbit flash memory. This program is then executed by the Voice Extreme interpreter, which runs in ROM on the VE IC. Because the VE IC has speech processing technology code already in firmware, application code is compact and executes quickly.

Speaker Independent: No Training Required

Speaker Dependent: Custom Commands

Speaker Verification: Voice Password

Continuous Listening: Gateway Access

Word Spotting: Identifies a Phrase Out of a Sentence

Speech Synthesis: Custom Prompts

Record & Playback Music2: 4-Voice, Midi-Style

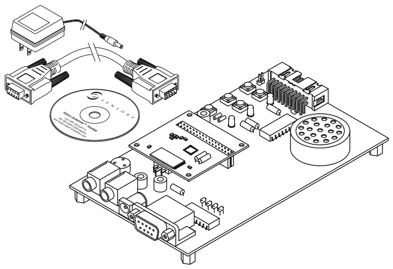
DTMF Generation: Touch Tone Dialing

Kit Contains:

- Voice Extreme Development Board with Built-in Microphone and Speaker
- Voice Extreme Module
- Power Supply
- Serial Cable for PC RS-232 Connection
- Quick Start Guide

Software CD Containing:

- Voice Extreme IDE
- Quick Synthesis™
- Sample projects and data
- Documentation



Voice Extreme IDE

IDE Features: Editor with source-level debug Project Management and Project Editing Single button builder that parses, assembles, links and checks the project Syntax coloring, macro generation, bookmarks, line reminders and other utilities Integrated batch-mode device programmer

Quick Synthesis

The Sensory Quick Synthesis tool is designed to help create and manage speech synthesis for Voice Extreme and other Sensory RSC microcontroller applications. Now any .wav file can be converted into a file format compatible with the Voice Extreme IC and other Sensory speech processors. This process can be done quickly and without the use of a Sensory linguist.

System Requirements:

- Windows (95/98/ME/NT/2000)
- 16MB RAM
- 15MB Free Hard Disk Space
- RS-232 Port

Description	**Digi-Key Part No.**	**Price Each**	**Sensory Part No.**
Voice Extreme Toolkit	VEKIT-ND	129.00	EEKVXTHSX
Voice Extreme Module	VEMOD-ND	59.00	EPMVXTHSX

NEW! Voice Direct™ II Speech Recognition Kit

Voice Direct II preforms speaker-dependent discrete word recognition by comparing a pattern generated in real time with previously trained word templates. The pattern generated by Voice Direct II is based on a digital reconstruction of the voice command. Each word to be recognized must first be trained. During training, Voice Direct II constructs a template representing the individual speaker's unique sound pattern for each specific word or phase to be recognized. Templates are stored in non-volatile flash memory. During recognition a new template is produced and compared to the stored templates to determine which word was spoken. Voice Direct II features integrated speech prompting for both training and recognition operations, allowing the development of sophisticated interactive products with minimal programming.

Features:

- Edge-Triggered, Continuous Listening and Word-Spotting speech recognition technologies
- Minimal external components
- Recognizes up to 15 words or phases (broken in to 1, 2 or 3 sets)
- Over 99% recognition accuracy with proper design
- Phrase recognition up to 2.5 seconds
- User-friendly speech prompting
- Quick setup time

Contents:

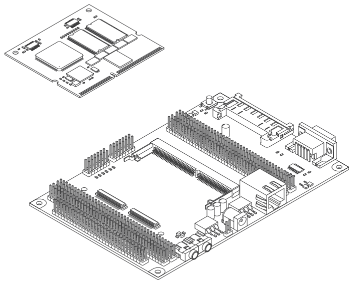
- One Voice Direct II Motherboard
- One Voice Direct II Module
- One Battery Clip
- Three 10K resistors
- One 470 ohm resistor
- Three Red LEDs
- One Yellow LED
- One Quickstart Manual

Description	**Digi-Key Part No.**	**Price Each**	**Sensory Part No.**
Voice Direct Kit	VDIISRKKIT-ND	49.00	VDIISRK

Zoom Starter Development Kit

Low Cost ARM Development System

Zoom™ Starter Development Kit:



The starter kit is a **low-cost** application development kit for evaluating the functionality of the Card Engine and Sharp Blue Streak™ MCU/SoC. Application development is performed right on the product-ready Card Engine and software board support package included in the kit.

- Card Engine: LH79520 Card Engine (8MB Flash, 32MB SDRAM) included
- LCD Display connector: 60-pin integrated LCD, touch and backlight connector
- Network Support: 1 RJ45 ethernet jack with magnetics (application/debug)
- Audio: stereo input and output jacks - 3.5mm diameter (stereo-in is not supported by LH79520)
- PC Card Expansion: Compact flash type 1 card slot (memory mode only)
- Serial Port: 115.2Kbps RS-232 debug serial port
- Expansion Headers: Standard 100 mil pitch header, access to all Card Engine signals
- Software: Linux BSP available. GNU cross development tools (compiler, linker, assembler, debugger) for use with PC hosts running Windows 2000/Cygwin or Linux, LogicLoader™ (bootloader/monitor)
- Cables: Serial cable (null modem), power supply and power adapters (UK, Europe, Japan, and USA)

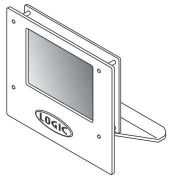
Card Engine:

The LH79520 Card Engine is a complete single board computer offering essential features for handheld and embedded networking applications in the industrial, consumer and medical markets.

- Processor: Sharp LH79520 32-bit ARM720T RISC microprocessor running at 77.414MHz
- SDRAM Memory: Up to 64 Mbytes
- Flash Memory: Up to 16 Mbytes on board
- Display: Programmable color LCD controller. Built in driver supports up to 800 x 600 x 16-bit color. Supports STN, color STN, HR-TFT, AD-TFT, TFT
- Touch Screen: Four wire resistive touch controller
- Network Support: 10/100 BASE-T ethernet controller (application/debug). SMSC LAN 91C111 (MAC & PHY)
- Audio: Audio codec stereo output (TI TLV320DAC23)
- PC Card Expansion: Compact flash type 1 card (memory mode only)
- Serial Ports: 2 X 16C550 like, standard UARTS
- IrDA: SIR supports up to 115.2Kbps

Description	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.
Zoom Starter Kit	460-1000-ND	337.82	SDK-LH79520-10
Zoom Starter Kit/JTAG	460-1001-ND	496.09	SDK-LH79520-10-W

Zoom Display Kit



The Zoom™ Display Kits are ready to use LCD displays that can be immediately connected to the Zoom Application Development Kits.

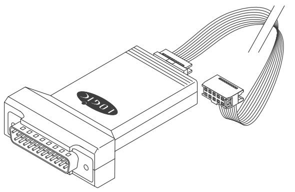
The display kits include:

- Bezel
- Backlight
- 4 Wire Resistive Touch Panel
- Cable Assemblies

Description	Sharp LCD Part No.	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.
3.5" QVGA (240 x 320), Color AD-TFT	LQ035Q7DB02	460-1004-ND	484.12	LCD-3.5-QVGA-10
6.4" VGA (640 x 480), Color TFT	LQ64D343	460-1005-ND	903.07	LCD-6.4-VGA-10
12.1' SVGA (800 x 600), Color TFT	LQ121S1DG31	460-1006-ND	993.51	LCD-12.1-SVGA-10

JTAG Debuggers

Hardware Features:



Raven:

- High speed download
- Auto-sensing voltage
- 18" interface cable
- LED status
- External power supply
- Host PC running Windows or Linux and available parallel port

Wiggler:

- 6" interface cable
- Powered via JTAG and parallel port
- Host PC running Windows and available parallel port

OCD Commander is an assembly level software debugger that supports reading and writing of registers and memory, target start, stop and reset. Downloading to target, single stepping, hardware and software breakpoints. Diagnostics including memory and register tests. GNU tool suite includes a GCC compiler, linker, and assembler, and the GDB debugger. A special build of GNU is developed for each target processor.

For use with Zoom Starter Developement Kit

Description	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.
JTAG Raven	460-1003-ND	847.21	JTAG-R-ARM7-10
JTAG Wiggler	460-1002-ND	159.60	JTAG-W-ARM7-10

LH79520 System-on-Chip

Features:

- ARM720T™ Core: 32-bit ARM7TDMI™ RISC Core, 8KB Cache, MMU
- High Performance (77.4 MHz)
- 32KB On-Chip SRAM
- Clock and Power Management: 32kHz Oscillator for RTC, 14.7MHz Oscillator and PLL for System Clock
- Programmable Color LCD Controller: Up to 800 x 600 Resolution, Supports STN, Color STN, HR-TFT, TFT, Up to 64k colors
- Flexible External Memory Interface: SDRAM support, SRAM/Flash/ROM support
- DMA (four channels)
- Synchronous Serial Interface (SSI)
- Four Counter/Timers
- Two Pulse Width Modulators (PWM)
- Three UARTs (16C550-like), Classic IrDA (115kbps)
- Real Time Clock (RTC)
- Up to 64 General Purpose I/Os
- Programmable Vectored Interrupt Controller
- Watchdog Timer
- JTAG Debug Interface and Boundary Scan
- Low Power Modes: Active Mode: 55mA Max., Standby Mode: 35mA Max., Sleep Mode: 5.5mA Max., Stop Mode: 18µA
- Operating Voltage: 1.8V Core, 3.3V Input/Output (1.8V optional)
- Temperature: 0°C to 70°C Commercial, -40°C to +85°C Industrial (with reduced clock frequency)
- 176-pin LQFP Package

Description	Digi-Key Part No.	Price Each	Sharp Part No.
LH79520 System-on-Chip	425-1820-ND	19.38	LH79520N0M00

QV400D: Prototype Programming Kit for Winbond ChipCorder Devices

System Overview:

QV400D™ provides all the software and hardware functions needed to develop complex messaging systems using Winbond's ChipCorder family of analog recording devices.

- Supports all current Winbond ChipCorders in 28-Pin DIP packages except the ISD5008 and 5116 devices which require socket adapters.
- Utilizes standard Windows® .wav format as input (11.025KHz, 16-Bit mono format only).
- Project management software includes message concatenation creation and auditing for building complex, compact, message systems.
- Data are written to precise, pre-computed locations; each programmed device is identical.
- Word and concatenation look-up tables are automatically created. The tables can also be used by the customer to create microprocessor look-up tables.
- Simple hookup; a single stereo audio cable carries both signal and control commands.

Project Software:

QV400S™ is a software package designed to unify the interface between users and various speech development systems produced by Quadravox. It consists of one executable file, QV400S1.exe (for Windows 95 or later), several DLLs (one at least for each development system), several help files, and an initialization file, QV400S1.ini (Win95 or later).

- Data acquisition using a standard 16-Bit sound card. Existing .wav files (11.025KHz, mono, 16-Bit) work fine, too.
- Organization of .wav files into projects and concatenation lists.
- Auditing of recorded segments, and of concatenations to verify proper prosody.
- Computation of exact address based on chip type and sample rate.

Programmer Hardware:

The speech data created by the project software may be programmed into any Winbond ChipCorder device using the QV400D Programmer Board. Separate easy-to-use ZIF sockets are provided for the ISD1000-2500 and ISD33000-4000 devices. In most PC systems, amplified speakers are connected to the sound card line output. The programmer is interposed between the PC line out and amplified speakers. No other connections to the PC are required. QV400D is designed to pass both channels through when it is not in use, but this feature will function only if the QV400D power supply remains connected.

Power Supply:

Output voltage: 9V DC; Current: 200mA minimum, 110V AC, 60Hz input

Minimum System Requirements:

QV400D will run on any PC operating under Windows '95 or '98

- CPU Pentium 66Mhz
- 8MB Ram (16MB and up preferred)
- 1.5MB hard disk space
- A 16-Bit sound card capable of 11.025KHz record and 16-Bit, 44.1KHz stereo playback is also needed for data acquisition.

Prototype Programming Kit for Winbond ChipCorder Devices

Kit Contents:

- 2 Floppy Disks containing all QV400D software and documentation (Help file).
- 1 Programmer Board with two empty ZIF sockets.
- 1 Audio Cable (6 ft. shielded, 1/8" stereo miniplug at both ends).
- 1 Power Supply: 9V DC 300 mA, 2.1mm female plug, center positive.

QV400D-ND **$249.00**

Package Type	For Device Type	Digi-Key Part No.	Price Each
Socket Adapters for the QV300D			
28/600 DIP	ISD5008P and ISD5116P	QV400D-03A-ND	39.00
28/300 SOIC	ISD5008S and ISD5116S	QV400D-03B-ND	39.00
28-Pin TSOP	ISD5008E and ISD5116E	QV400D-03C-ND	39.00
28/300 SOIC	ISD1100S, 1200S,1400S and 2500S	QV400D-04-ND	39.00
28/350 SOIC	ISD1100G and ISD2500G	QV400D-05-ND	39.00
28/300 SOIC	ISD33000S and ISD4000S	QV400D-06-ND	39.00
28-Pin TSOP	ISD33000E and ISD4000E	QV400D-07-ND	39.00
—	ISD33000 OR 4000 Based Module	QV400D-08-ND	19.00

Winbond
Electronics Corporation America

Single-Chip Voice Record/Playback Devices

General Description: Winbond's patented ChipCorder® technology is a revolutionary multilevel technique to record and play back sound on a single chip. The advanced technology provides natural sound reproduction, in a cost-effective device that retains stored messages in the event of power loss or battery replacement.

The technology, based on a unique multilevel storage approach, stores multiple voltage levels into previously binary, two level EEPROM memory cells. Unlike traditional voice solutions whereby voice is digitized, the Winbond approach stores analog signals directly into single cells as one of over 250 levels.

All ChipCorder products integrate the oscillator, microphone pre-amplifier, automatic gain control, anti-aliasing filter, smoothing filter, and speaker amplifier on-chip to achieve a complete "system on a chip." Only a microphone, speaker, power source, and a few passive components are needed to implement a complete record/playback function.

ISD1100 Series

Description: The ISD1100 has been designed for low-cost consumer applications where a bare die is mounted directly to the PC board. The inclusion of pull-up or pull-down resistors on the input pins minimizes the number of signals used and the number of external components or bonding wires required.

Features: • Pushbutton interface • 5 volt operating range • Automatic power-down

ISD1200 Series

Description: The ISD1200 offers a simple push-button interface coupled with the automatic power-down feature. It offers full addressability to handle multiple messages on a single chip. It is ideal for toy applications.

Features: • 5 volt operating range • Automatic power-down • Fully addressable to handle multiple messages

ISD1400 Series

Description: The ISD1400 expands on the simple push-button interface of the ISD1200, with longer storage durations of 16 and 20 seconds. It offers full addressability to handle multiple messages on a single chip and is widely used in communication and consumer applications.

Features: • 5 volt operating range • Automatic power-down • Fully addressable to handle multiple messages

ISD2500 Series

Description: The ISD2500 family offers improvement in speech length up to a maximum of 90 seconds. This extends the single-chip voice solution to industrial and high-end consumer applications. This family offers sound capability for new applications such as cellular phones, answering machines, voice-response faxes, copy machines and industrial applications where voice prompting provides product differentiation for equipment and manufacturers.

Features: • 5 volt operating range • Fully addressable to handle multiple messages • Directly cascadable for longer durations • Automatic power-down (push-button mode)

ISD400X Series

Description: The ISD4000 series provides high-quality, 3-volt, single-chip record/playback solutions for 2 to 4 minutes (ISD4002), 4 to 8 minutes (ISD4003), and 8 to 16 minutes (ISD4004) messaging applications. These CMOS-based devices include an on-chip oscillator, anti-aliasing filter, smoothing filter, AutoMute™ feature, audio amplifier, and high density, multilevel Flash storage array.

Features: • Single +3 volt supply • Low-power consumption • AutoMute feature to provide background noise attenuation • Fully addressable to handle multiple messages • On-chip clock source • Microcontroller SPI or Microwire™ Serial Interface

ISD5008 Series

Description: The ISD5008 device is designed for use in a microprocessor- or microcontroller-based system. Address, control, and duration selection are accomplished through a Serial Peripheral Interface (SPI) or Microwire Serial Interface to minimize pin count. Recordings are stored in on-chip nonvolatile memory cells, providing zero-power message storage. Voice and audio signals are stored directly into solid-state memory in their natural, uncompressed form, providing superior quality voice and music reproduction.

Features: • Fully-integrated solution • Low-power consumption • Single +3 volt supply • Enhanced voice features • Easy-to-use and control • High quality solution

ISD5116 Series

Description: The ISD5116 ChipCorder Product provides high quality, fully integrated, single-chip Record/Playback solutions for 8-16 minute messaging applications that are ideal for use in cellular phones, automotive communications, GPS/navigation systems and other portable products.

Features: Fully-integrated solution: • Single-chip voice record/playback solution. • Low-power consumption supports 2.0V and 3.0V interface logic • Enhanced voice features • Digital memory features up to 4 MB • Easy-to-use and control • High quality voice and music reproduction

Duration	Interface	Input Sample Rate	Filter Pass Band	Pkg.	Digi-Key Part No.	Price Each			Winbond Part No.
						1	10	25	
10 Sec.	Pushbutton	6.4KHz	2.6KHz	28-DIP	ISD1110P-ND	4.50	3.60	3.00	ISD1110P
				28-SOIC	ISD1110S-ND	4.50	3.60	3.00	ISD1110S
12 Sec.	Pushbutton	5.3KHz	2.2KHz	28-DIP	ISD1212P-ND	4.50	3.60	3.00	ISD1212P
				28-SOIC	ISD1212S-ND	4.50	3.60	3.00	ISD1212S
16 Sec.	Pushbutton	8.0KHz	3.3KHz	28-DIP	ISD1416P-ND	5.63	4.50	3.76	ISD1416P
				28-SOIC	ISD1416S-ND	5.63	4.50	3.76	ISD1416S
20 Sec.	Pushbutton	6.4KHz	2.6KHz	28-DIP	ISD1420P-ND	5.63	4.50	3.76	ISD1420P
				28-SOIC	ISD1420S-ND	5.63	4.50	3.76	ISD1420S
1 Min.	Button/MCU	8.0KHz	3.4KHz	28-DIP	ISD2560P-ND	9.58	7.66	6.38	ISD2560P
75 Sec.	Button/MCU	6.4KHz	2.7KHz	28-DIP	ISD2575P-ND	9.58	7.66	6.38	ISD2575P
90 Sec.	Button/MCU	5.3KHz	2.3KHz	28-DIP	ISD2590P-ND	9.58	7.66	6.38	ISD2590P
2 Min.	Button/MCU	4.0KHz	1.7KHz	28-DIP	ISD25120P-ND	9.58	7.66	6.38	ISD25120P
				28-SOIC	ISD25120S-ND	9.58	7.66	6.38	ISD25120S
48 Sec.	Button/MCU	5.3KHz	2.3KHz	28-DIP	ISD2548P-ND	7.23	5.78	4.82	ISD2548P
				28-SOIC	ISD2548S-ND	7.23	5.78	4.82	ISD2548S
1 Min.	Button/MCU	8.0KHz	3.4KHz	28-SOIC	ISD2560S-ND	9.58	7.66	6.38	ISD2560S
75 Sec.	Button/MCU	6.4KHz	2.7KHz	28-SOIC	ISD2575S-ND	9.58	7.66	6.38	ISD2575S
2 Min.	SPI/ Microwire	8.0KHz	3.4KHz	28-DIP	ISD4002-120P-ND	8.75	7.00	5.84	ISD4002-120P
				28-SOIC	ISD4002-120S-ND	8.75	7.00	5.84	ISD4002-120S
				28-TSOP	ISD4002-120E-ND	8.75	7.00	5.84	ISD4002-120E
150 Sec.	SPI/ Microwire	6.4KHz	2.7KHz	28-DIP	ISD4002-150P-ND	8.88	7.10	5.92	ISD4002-150P
				28-SOIC	ISD4002-150S-ND	8.88	7.10	5.92	ISD4002-150S
				28-TSOP	ISD4002-150E-ND	8.88	7.10	5.92	ISD4002-150E
3 Min.	SPI/ Microwire	5.3KHz	2.3KHz	28-DIP	ISD4002-180P-ND	9.00	7.20	6.01	ISD4002-180P
				28-SOIC	ISD4002-180S-ND	9.00	7.20	6.01	ISD4002-180S
				28-TSOP	ISD4002-180E-ND	9.00	7.20	6.01	ISD4002-180E
4 Min.	SPI/ Microwire	4.0KHz	1.7KHz	28-DIP	ISD4002-240P-ND	9.13	7.30	6.09	ISD4002-240P
				28-SOIC	ISD4002-240S-ND	9.13	7.30	6.09	ISD4002-240S
				28-TSOP	ISD4002-240E-ND	9.13	7.30	6.09	ISD4002-240E

Duration	Interface	Input Sample Rate	Filter Pass Band	Pkg.	Digi-Key Part No.	Price Each			Winbond Part No.
						1	10	25	
4 Min.	SPI/ Microwire	8.0KHz	3.4KHz	28-DIP	ISD4003-04MP-ND	10.75	8.60	7.17	ISD4003-04MP
				28-SOIC	ISD4003-04MS-ND	10.75	8.60	7.17	ISD4003-04MS
				28-TSOP	ISD4003-04ME-ND	10.75	8.60	7.17	ISD4003-04ME
5 Min.	SPI/ Microwire	6.4KHz	2.7KHz	28-DIP	ISD4003-05MP-ND	10.88	8.70	7.26	ISD4003-05MP
				28-SOIC	ISD4003-05MS-ND	10.88	8.70	7.26	ISD4003-05MS
				28-TSOP	ISD4003-05ME-ND	10.88	8.70	7.26	ISD4003-05ME
6 Min.	SPI/ Microwire	5.3KHz	2.3KHz	28 DIP	ISD4003-06MP-ND	11.00	8.80	7.33	ISD4003-06MP
				28-SOIC	ISD4003-06MS-ND	11.00	8.80	7.33	ISD4003-06MS
				28-TSOP	ISD4003-06ME-ND	11.00	8.80	7.33	ISD4003-06ME
8 Min.	SPI/ Microwire	4.0KHz	1.7KHz	28-DIP	ISD4003-08MP-ND	11.13	8.90	7.42	ISD4003-08MP
				28-SOIC	ISD4003-08MS-ND	11.13	8.90	7.42	ISD4003-08MS
				28-TSOP	ISD4003-08ME-ND	11.13	8.90	7.42	ISD4003-08ME
8 Min.	SPI/ Microwire	8.0KHz	3.4KHz	28-DIP	ISD4004-08MP-ND	15.38	12.30	10.26	ISD4004-08MP
				28-SOIC	ISD4004-08MS-ND	15.38	12.30	10.26	ISD4004-08MS
				28-TSOP	ISD4004-08ME-ND	15.38	12.30	10.26	ISD4004-08ME
10 Min.	SPI/ Microwire	6.4KHz	2.7KHz	28-DIP	ISD4004-10MP-ND	15.50	12.40	10.35	ISD4004-10MP
				28-SOIC	ISD4004-10MS-ND	15.50	12.40	10.35	ISD4004-10MS
				28-TSOP	ISD4004-10ME-ND	15.50	12.40	10.35	ISD4004-10ME
12 Min.	SPI/ Microwire	5.3KHz	2.3KHz	28-DIP	ISD4004-12MP-ND	15.63	12.50	10.42	ISD4004-12MP
				28-SOIC	ISD4004-12MS-ND	15.63	12.50	10.42	ISD4004-12MS
				28-TSOP	ISD4004-12ME-ND	15.63	12.50	10.42	ISD4004-12ME
16 Min.	SPI/ Microwire	4.0KHz	1.7KHz	28-DIP	ISD4004-16MP-ND	15.75	12.60	10.51	ISD4004-16MP
				28-SOIC	ISD4004-16MS-ND	15.75	12.60	10.51	ISD4004-16MS
				28-TSOP	ISD4004-16ME-ND	15.75	12.60	10.51	ISD4004-16ME
4-8 Min.	SPI/ Microwire	4.0-8.0KHz	1.7-3.4KHz	28-DIP	ISD5008P-ND	13.75	11.00	9.17	ISD5008P
				28-SOIC	ISD5008S-ND	13.75	11.00	9.17	ISD5008S
				28-TSOP	ISD5008E-ND	13.75	11.00	9.17	ISD5008E
8-16 Min.	I^2C	4.0-8.0KHz	1.7-3.4KHz	28-DIP	ISD5116P-ND	14.75	11.80	9.84	ISD5116P
				28-SOIC	ISD5116S-ND	14.75	11.80	9.84	ISD5116S
				28-TSOP	ISD5116E-ND	14.75	11.80	9.84	ISD5116E
8-16 Min.	I^2C	4.0-8.0KHz	1.8-3.7KHz	28-DIP	ISD5216P-ND *NEW!*	15.63	12.50	10.42	ISD5216P

NEW! Single-Channel Voiceband Codec

The W6810 and W6811 are general-purpose single channel PCM CODEC with pin-selectable µ-Law or A-Law companding. The device is compliant with the ITU G.712 specification. Functions performed include digitization and reconstruction of voice signals, and band limiting and smoothing filters required for PCM systems. The filters are compliant with ITU G.712 specification. Their performance is specified over the industrial temperature range of -40°C to +85°C.

Features: • W6810 operates off of a single +5V power supply • W6811 operates off of a separated analog (5V) and digital (3V) power supplies

Description	Package	Digi-Key Part No.	Price Each	Winbond Part No.
IC Voiceband	20-DIP	W6810IE-ND	2.43	W6810IE
IC Voiceband	24-DIP	W6811IE-ND	2.55	W6811IE
Development Kit	—	W6810DK-ND	150.00	W6810DK

NEW! Single-Chip Text-to-Speech Processor

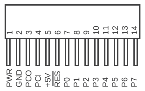
The WTS701 is a high quality, fully integrated, single-chip Text-to-Speech solution that is ideal for use in applications such as automotive appliances, GPS/navigation systems, cellular phones and other portable products or accessories. The WTS701 product accepts ASCII (and Unicode for Mandarin) input via a SPI port and converts it to spoken audio via an analog output or digital CODEC output. Performance is specified over the industrial temperature range of -40°C to +85°C.

The chip can be programmed through the SPI port, allowing downloading of different languages and speaker databases.

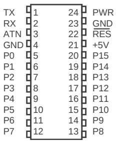
Description	Package	Digi-Key Part No.	Price Each	Winbond Part No.
English Female	56-TSOP	WTS701EF/T-ND	33.00	WTS701EF/T
English Male	56-TSOP	WTS701EM/T-ND	33.00	WTS701EM/T
Development Kit	—	WTS-ES701-ND	295.00	WTS-ES701

PARALLAX INC BASIC Stamp Modules

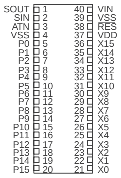
BS1-IC



BS2-IC, BS2E-IC, BS2SX-IC, and BS2P24



BS2P40



Stamp-Sized Modules Run BASIC

These modules are general-purpose I/O computers which are programmed in BASIC. The language set has instructions for interfacing with electronic circuitry including shift registers, integrated circuits that use SPI, solid state relays, or devices that use asynchronous serial protocols.

BS1: Runs at 4MHz, has 8 I/O lines, and program storage for 80 lines of BASIC code.

BS2: Steps up to 16 I/O lines and program storage for 600 instructions. It's speed also increases to 20MHz.

BS2SX: Increases the speed to 50MHz and program storage to 4000 lines of BASIC code. It also adds 64 Bytes of scratch pad RAM.

BS2E: Has the RAM and program storage of the BS2SX, but runs at the BS2 speed to save power.

BS2P24 and BS2P40: Have several advantages over other Stamps. They run at 20MHz but actually executes instructions faster than the BS2SX. They have all of the features of the BS2SX plus they have commands for interfacing with parallel LCD's, I2C devices, and Dallas Semiconductor "One Wire" parts along with a polled interrupt capability.

Stamp Programming:

To get started programming BASIC Stamps you need a BASIC Stamp module, prototyping board (Carrier Board, Board of Education, or BASIC Stamp Activity Board), serial cable, and software (available for internet download and on the CD-ROM). Getting started is easiest with one of the starter kits below.

System requirements: IBM PC or compatible, VGA monitor, parallel port (BS1-IC), serial port (for all other Stamp modules), CD-ROM drive, DOS or Win98 operating system.

BASIC Stamp I Starter Kit:

The BASIC Stamp I Starter Kit includes one BASIC Stamp I module, SuperCarrier Board, BASIC Stamp manual version 2.0, a Parallax CD-ROM (include software) and a parallel cable.

BASIC Stamp II Starter Kit:

The BASIC Stamp II Starter Kit includes one BASIC Stamp II module, Board of Education, BASIC Stamp manual version 2.0, a Parallax CD-Rom (include software) and a serial cable.

BASIC Stamp IISX Starter Kit:

The BASIC Stamp IISX Starter Kit includes one BASIC Stamp IISX module, Board of Education, BASIC Stamp manual version 2.0, a Parallax CD-ROM (include software) and a serial cable.

Board of Education "Full Kit":

The Board of Education "Full Kit" contains a Board of Education, BASIC Stamp II module, pluggable wires, serial cable, and power supply. The B.O.E. Manual is in PDF format on CD-ROM.

BASIC Stamp 2P24 Professional Starter:

Features include: • BS2P24 Module • BS2P Demo Board • BASIC Stamp Manual • CD-ROM • DS1822 Thermometer • RTC with RAM • 4K EEPROM • 4.7K resistor • 32.768 KHz XTAL • Serial Cable • 10 Jumper Wires

BS2P Plus Pack

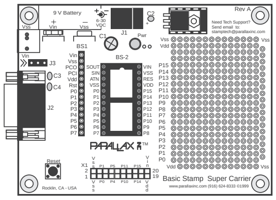
The BS2P Plus Pack is a fantastic collection of demonstration projects for the BS2P module focused on interfacing to 1²C, 1-wire and parallel LCDs. Use the provided source code to get started and customize it for your application. This kit is designed to cut an engineers "getting started" time down from days to hours. The BS2P24 Demo Board (45183) is a helpful companion to the Plus Pack.

Features include: • Parallel LCD module • PCF8574 Remote 8-Bit I/O Expander • PCF8583 Clock/Calendar with 240 x 8-Bit RAM and 32.768 KHz crystal • PCF8591 8-Bit A/D and D/A Converter • 24LC32 32K Serial EEPROM • (2) DS1822 Econo-MicoLAN Digital Thermometer • DS2405 Addressable Switch • DS2890 1-wire Digital Potentiometer • (4) Jumper wires packs • Resistors • Potentiometer • Capacitor • LED's • Pushbutton Switch

BASIC Stamp Super Carrier Board:

The Super Carrier Board provides wire-wrap/solder application space and holes placed to accommodate DIP ICs. The Super Carrier supports the BS1-IC and BS2-IC.

• 3" x 4" Double-sided plated through-hole prototype board • On-board voltage regulator accepts 6-30 VDC, from wall-pack or battery • 3-pin parallel (BS1-IC) and DB-9 serial ports (BS2-IC) are used for programming and run-time communication • Prototype area (1.5" x 2.0") holes arranged to easily support servos, 300 and 600 mil DIP ICs, DB9, DB25, RJ-11 connectors • Size measures 7.7 x 10.2 cm (3 x 4")

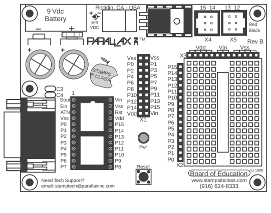

9 V Battery
Vin
Vss
6-30 VDC
J1
Pwr
C1
C2
Rev A
Need Tech Support? Send email to: stamptech@parallaxinc.com
BS1
BS-2
J3
J2
C3
C4
Reset
X1
Rocklin, CA - USA
PARALLAX
Basic Stamp Super Carrier
www.parallaxinc.com (916) 624-8333

Super Carrier Board

Board of Education:

The Stamps in Class curriculum requires a BASIC Stamp II with a Board of Education (BOE). The BOE is a project development space with breadboard.

Features include: • Mechanically interlocked power supply to prevent dual connection of wall-pack and 9-volt battery • DB9 connector for BS2-IC programming and serial communication during run-time • P0 - P15 I/O pins, Vdd and Vss connections brought adjacent to 5.1 x 3.5 cm (2" x 1 3/8") breadboard area • Includes set of ten (10) color-coded 22 gauge wires • Traces on top of the board show connections between BS2-IC and breadboard connections for easy understanding by students



Board of Education

BS2P24 Demo Board:

The BS2P24 Demo Board is a valuable learning tool and timesaving prototyping aide for the Parallax BS2P24-IC module. The demo board provides very useful connections to 1-Wire, 1²C components, parallel LCDs as well as breadboard prototype space.

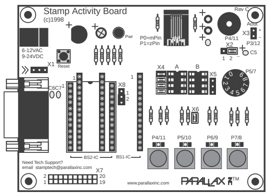
Also Available: The BS2P40 Adapter Board allows the BS2P40 to work with the BS2P Demo Board.

BASIC Stamp Activity Board:

A demonstration board for Parallax BASIC Stamps designed to teach the PBASIC language and hardware control through the BASIC Stamp I/O pins and a set of built-in components. Package includes the BASIC Stamp Activity Board, sample programs on disk, and a 9-volt wall-pack power supply.

Features include:

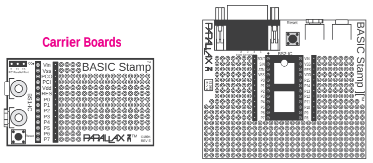
- (4) pushbuttons to stimulate inputs, and (4) LEDs to indicate their status
- 32 Ohm speaker outputs frequencies of 500-8K Hz
- potentiometer for analog input
- RC network for changing PWM into a smooth analog output
- (2) sockets for 8-pin DIP ICs (from AppKits)
- X-10 interface via RJ-11 connection (BS2-IC only)
- Measures 7.7 x 10.2 cm (3 x 4")

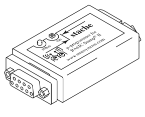


Activity Board

BS1-IC and BS2-IC Carrier Boards: BASIC Stamp carrier boards are small through-hole boards that have a socket for the BS1-IC or BS2-IC, and a 9-volt battery clip plus project space.

Carrier Boards



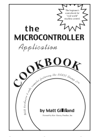

stache
µ-programmer for BASIC Stamp® II
www.emesystems.com

Programmer

Stache Field Programmer Stache is a small field programmer for the BS2-IC. Stache is loaded with your BASIC Stamp programs from the PC, and may then be taken to the field by untrained personnel to reprogram BASIC Stamps. One pushbutton is used for field programming. Holds up to 15 BS2-IC programs.

BASIC Stamp Books Programming and Customizing the BASIC Stamp by Scott Edwares is a 350-page introductory text to the BASIC Stamp. The benefit of this book is the general background on electronics, breadboarding, and applications.

Microcontroller Projects with BASIC Stamps by Al Williams is a 300-page BASIC code syntax guide for the BASIC Stamp, and also includes an assortment of applications.



Microcontroller Application Cookbook: The Microcontroller Application Cookbook by Matt Gilliland is a 248-page selection of circuits and code for the BS2-IC. The intent of the book is to provide circuits and code snippets which could be combined to develop larger projects. Examples include the use of relays with high voltage, D/A and A/D conversion, serial protocols for synchronous/asynchronous communication, shift registers, and buffering I/O pins for protection.

Parallax CD-ROM: The Parallax CD-ROM consists of every resource published by Parallax. Includes source code and schematics for BASIC Stamp circuits, printed manuals, Stamps in Class documentation, and images. Approximately 585 MB. This is included in the BASIC Stamp Starter Kits and Board of Education Full Kit.

Stamps in Class Educational Kits: The Stamps in Class program (www.stampsinclass.com) consists of educational curriculum and parts kits for high school, community college, and university level classes. The purpose of the curriculum is to teach microcontroller interfacing, electronics, and programming. Authored by Parallax and educational consultants. Each kit includes a printed text and complete parts kits for the experiments. **Stamps in Class curriculum requires a Board of Education and BS2-IC.** Each text typically requires 40-80 hours to complete.

What's a Microcontroller? .... Text and Parts

This 128-page introductory text shows how to load and customize programs in a BASIC Stamp for controlling LEDs, pushbuttons, and a servo motor. Challenge level is easy

Basic Analog and Digital.. Text and Parts

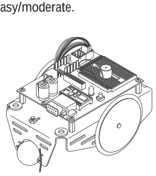
This 140-page text instructs the essentials of 8-bit A/D conversion and D/A conversion with potentiometers and sensors. Introduces math concepts required to scale output, resistive ladder networks. Difficulty is easy/moderate.

Earth Measurements .... Text and Parts

Earth Measurements is a 144-page text in which you build an environmental data logger that measures air temperature, water temperature, light levels, and conductivity in water with a closed-loop pump feedback system to control water level. Data is stored in BASIC Stamp EEPROM for future retrieval. Challenge is moderate/high.

Robotics! .... Text and Parts

With the Boe-Bot kit you'll mount the Board of Education on a robot chassis. The robot is capable of basic movement, object detection with whiskers and infrared, detecting an edge of table, following another robot, and following/avoiding light. These experiments may also be built on the robot simultaneously. Challenge of this text is easy/moderate. Have some fun with electronics!



Robotics

Industrial Control .... Text and Parts

Industrial Control is a 194-page tutorial on the essentials of process control, including on-off, differential gap, proportional, integral, and derivative (PID) theories. This text includes a software utility program that graphs and stores data. Challenge is moderate/high.

Description	Digi-Key Part No.	Price Each 1	5	10	25
BASIC Stamp Modules					
BS1-IC BASIC Stamp Module	STAMP1-ND	34.00	—	30.60	28.90
BS2-IC BASIC Stamp Module	STAMP2-ND	49.00	—	44.10	41.65
BASIC STAMP 2E MODULE	BS2E-IC-ND	54.00	—	48.60	45.90
BASIC STAMP 2SX MODULE	BS2SX-IC-ND	59.00	56.05	53.10	50.15
BASIC Stamp 2P24 pin Module	BS2P24-ND	79.00	75.05	71.10	67.15
BASIC Stamp 2P40 pin Module	BS2P40-ND	99.00	94.05	89.10	84.15
BASIC Stamp Starter Kits					
BASIC Stamp I Starter Kit	27205-ND	109.00	103.55	98.10	—
BASIC Stamp II Starter Kit	27203-ND	159.00	151.05	143.10	—
BASIC Stamp IISX Starter Kit:	27206-ND	169.00	160.55	152.10	—
Board of Education Full Kit	28102-ND	119.00	—	97.58	95.20
BASIC Stamp 2P24 Professional Starter Kit	27235-ND	209.00	198.55	188.10	—
Prototype and Development Boards					
BASIC Stamp Super Carrier Board	27130-ND	59.00	—	53.10	50.15
Board of Education	28150-ND	65.00	—	53.30	52.00
BASIC Stamp Activity Board	27905-ND	99.00	—	84.15	79.20
BS1-IC Carrier Board	STAMP1C-ND	15.00	—	13.50	12.75
BS2-IC Carrier Board	STAMP2C-ND	24.00	—	21.60	20.40
BS2P Demo Board	45183-ND	89.00	84.55	80.10	—
BASIC Stamp Accessory Modules					
Pocket Watch B	27962-ND	29.00	27.55	—	—
Motor Mind B	27961-ND	29.00	27.55	—	—
Application Kits					
8-Digit LED Driver Kit	27914-ND	26.00	20.80	—	—
12-Bit A/D Converter Kit	27916-ND	26.00	20.80	—	—
Stache Field Programmer	27330-ND	123.75	—	108.90	—
Serial LCD Module 2x16	27910-ND	49.00	—	—	—
Serial LCD Module 2x16 Backlit	27923-ND	59.00	56.05	53.10	—
Parallax Standard Servo Motor	900-00005-ND	12.00	11.40	10.80	—
Mini SSC (Serial Servo Controller) II	27912-ND	49.00	46.55	—	—
Little Step U-Stepper Motor Controller	27938-ND	69.00	65.55	62.10	—
Basic Stamp 2P Plus Pack	45184-ND	69.00	55.20	—	—
Books					
Microcontroller Projects with Basic Stamps	27952-ND	44.95	—	—	—
Microcontroller Application Cookbook	28111-ND	29.95	28.45	26.36	—
Basic Stamp Manual Ver.2.0	27218-ND	49.00	44.10	39.20	—
Parallax CD-ROM	27000-ND	3.00	—	—	—
*Stamps in Class Educational Kits**					
"What's a Microcontroller?" Parts Kit and Text	28152-ND	54.00	—	48.60	—
"Earth Measurements" Parts Kit and Text	28153-ND	79.00	—	71.10	—
"Robotics!" Parts Kit and Text	28154-ND	129.00	—	116.10	—
"Industrial Control" Parts Kit and Text	28156-ND	59.00	—	53.10	—
"Basic Analog and Digital" Parts Kit and Text	28155-ND	45.00	—	40.50	—

* Requires the Board of Education Full Kit or BASIC Stamp II Starter Kit

PIC® *FLASH* Microcontrollers with *nanoWatt Technology*

The new PIC16F/PIC18F family of PIC® FLASH microcontrollers (MCU) featuring *nanoWatt Technology* enable designers to command complete control of overall system power consumption.

Power Management:

The power-managed features allow designers to lower their current consumption and better control their overall system power consumption by utilizing the software-controlled enhanced power modes, delivering performance in an affordable, quick-to-market solution.

Ideal for battery managed applications, *nanoWatt Technology* refers to advanced PMOS Electrically Erasable Cell (PEEC) process technology, circuit design and manufacturing techniques unique to Microchip, utilized in designing these devices.

The devices are ideal for a wide range of applications, including:

- Intelligent sensing (smoke, leak or gas detectors, hospital ID tags, security systems, pet containment systems, and voltage control)
- Portable devices (hand-held tools, glucose meters, dictation recorders)
- Utility metering (data loggers for gas/water/electric meters)
- RF powered instruments
- Battery capacity monitoring
- Temperature transmitters

Save Time and Money:

Microchip's In-Circuit Serial Programming™ (ICSP™), allows the PICmicro® MCUs to be programmed after being placed in a circuit board. This enables reduced cost of field upgrades, system calibration during manufacturing and the addition of unique identification codes to the system and calibration of system in the field. The devices also support self-programming over the operating voltage range so that the user can program the device in-circuit at the user's operating voltage.

The *nanoWatt Technology* MCU Family Offers:

- Power consumption as low as 0.1 microamps in standby mode and offer a wide operating voltage range from 2V to 5.5V
- A flexible clock system with up to six enhanced "software controlled" power-managed modes enable engineers to execute code from a real-time clock base as well as control the speed of their code execution, thus allowing better control of the overall system power consumption
- New low-current watchdog timer
- A 2-speed start-up from a reset or sleep mode
- New fail-safe clock monitor that is used to detect an external clock failure
- The flexibility of re-programmable FLASH program memory (up to 8K bytes), which enables "fix on the fly" capability and one-time validation, up to 512 bytes of RAM memory, 256 bytes of EEPROM memory
- An internal multi-frequency oscillator up to 8MHz
- A 10-bit analog-to-digital converter (ADC) with up to 13 channels
- Enhanced capture/compare/PWM module (CCP) with one, two or four outputs with auto-shutdown and auto-restart

- Addressable USART module supporting RS-485, RS-232 and LIN
- Master Synchronous Serial Port (MSSP) module includes two modes: SPI™ and MI^{2}C™
- Programmable 16-level low-voltage detection module (PLVD)
- Programmable brown-out reset (PBOR)
- World-class development tool suite
- Pin and code compatible with Microchip's current 18-, 28- and 40-pin portfolio so you can re-use software and hardware, and lower development cost and time-to-market

	Program Memory		Data Ram	EEPROM	I/O	10-bit A/D	Serial	CCP/E CCP		
Device	**Words**	**Bytes**	**Bytes**	**Data**	**Pins**	**(ch)**	**I/O**	**(PWM)**	**Timers**	**Packages**
PIC18F1220	2048	4096	256	256	16	7	EUSART	0/1	3-16 bit, 1-8 bit 1-WDT	18P, 18SO, 20SS 28ML
PIC18F1320	4096	8192	256	256	16	7	EUSART	0/1	3-16 bit, 1-8 bit 1-WDT	18P, 18SO, 20SS 28ML
PIC18F2220	2048	4096	512	256	25	10	AUSART/ MI^{2}C/SPI™	2/0	3-16 bit, 1-8 bit 1-WDT	28SP, 28SO
PIC18F2320	4096	8192	512	256	25	10	AUSART/ MI^{2}C/SPI™	2/0	3-16 bit, 1-8 bit 1-WDT	28SP, 28SO
PIC18F4220	2048	4096	512	256	36	13	AUSART/ MI^{2}C/SPI™	1/1	3-16 bit, 1-8 bit 1-WDT	40P, 44ML, 44PT
PIC18F4320	4096	8192	512	256	36	13	AUSART/ MI^{2}C/SPI™	1/1	3-16 bit, 1-8 bit 1-WDT	40P, 44ML, 44PT
PIC16F818	1024	1792	128	128	16	5	I^{2}C/SPI™	1/0	1-16 bit, 2-8 bit 1-WDT	18P, 18SO, 20SS 28ML
PIC16F819	2048	3584	256	256	16	5	I^{2}C/SPI™	1/0	1-16 bit, 2-8 bit 1-WDT	18P, 18SO, 20SS 28ML
PIC16F627A	1024	1792	224	128	16	—	USART	1/0	1-16 bit, 2-8 bit 1-WDT	18P, 18SO, 20SS 28ML
PIC16F628A	2048	3584	224	128	16	—	USART	1/0	1-16 bit, 2-8 bit 1-WDT	18P, 18SO, 20SS 28ML
PIC16F87	4096	7168	368	256	16	—	AUSART/ MI^{2}C/SPI™	1/0	1-16 bit, 2-8 bit 1-WDT	18P, 18SO, 20SS 28ML
PIC18F88	4096	7168	368	256	16	7	AUSART/ MI^{2}C/SPI™	1/0	1-16 bit, 2-8 bit 1-WDT	18P, 18SO, 20SS 28ML
PIC16F648A	4096	7168	256	256	16	—	AUSART	1/0	1-16 bit, 2-8 bit 1-WDT	18P, 18SO, 20SS 28ML

(Continued)

PIC® *FLASH* Microcontrollers with *nanoWatt Technology* *(Cont.)*

Features: • Operating Temperature: Industrial • Internal Oscillator

Memory Size			I/O	External	Serial I/O				PWM	10-bit		Clock Speed	Analog	Timers		Digi-Key	Price Each			Microchip
Program	RAM	EEPROM	Pins	Interrupts	USART	I2C	SPI	ICD	10-Bit	A/D (ch)	VCC	(MHz)	Comp.	8/16-bit	Pkg.	Part No.	1	25	100	Part No.
1K x 14	224	128	16	—	AUSART	No	No	No	1	—	3.0 to 5.5v	20	2	2/1	28-QFN	PIC16F627A-I/ML-ND	3.23	1.84	1.71	PIC16F627A-I/ML
															18-Dip	PIC16F627A-I/P-ND	2.70	1.54	1.43	PIC16F627A-I/P
															18-SOIC	PIC16F627A-I/SO-ND	2.75	1.57	1.46	PIC16F627A-I/SO
															20-SSOP	PIC16F627A-I/SS-ND	2.98	1.70	1.57	PIC16F627A-I/SS
1K x 14	224	128	16	—	AUSART	No	No	No	1	—	2.0 to 5.5v	20	2	2/1	28-QFN	PIC16LF627A-I/ML-ND	3.33	1.90	1.76	PIC16LF627A-I/ML
															18-Dip	PIC16LF627A-I/P-ND	2.83	1.62	1.50	PIC16LF627A-I/P
															18-SOIC	PIC16LF627A-I/SO-ND	2.90	1.65	1.53	PIC16LF627A-I/SO
															20-SSOP	PIC16LF627A-I/SS-ND	3.13	1.78	1.65	PIC16LF627A-I/SS
2K x 14	224	128	16	—	AUSART	No	No	No	1	—	3.0 to 5.5v	20	2	2/1	28-QFN	PIC16F628A-I/ML-ND	3.55	2.03	1.89	PIC16F628A-I/ML
															18-Dip	PIC16F628A-I/P-ND	3.05	1.75	1.62	PIC16F628A-I/P
															18-SOIC	PIC16F628A-I/SO-ND	3.13	1.78	1.65	PIC16F628A-I/SO
															20-SSOP	PIC16F628A-I/SS-ND	3.38	1.92	1.78	PIC16F628A-I/SS
2K x 14	224	128	16	—	AUSART	No	No	No	1	—	2.0 to 5.5v	20	2	2/1	28-QFN	PIC16LF628A-I/ML-ND	3.73	2.13	1.98	PIC16LF628A-I/ML
															18-Dip	PIC16LF628A-I/P-ND	3.23	1.84	1.70	PIC16LF628A-I/P
															18-SOIC	PIC16LF628A-I/SO-ND	3.28	1.87	1.74	PIC16LF628A-I/SO
															20-SSOP	PIC16LF628A-I/SS-ND	3.53	2.02	1.87	PIC16LF628A-I/SS
4K x 14	256	256	16	—	AUSART	No	No	No	1	—	3.0 to 5.5v	20	2	2/1	28-QFN	PIC16F648A-I/ML-ND	3.98	2.27	2.11	PIC16F648A-I/ML
															18-Dip	PIC16F648A-I/P-ND	3.48	1.99	1.84	PIC16F648A-I/P
															18-SOIC	PIC16F648A-I/SO-ND	3.55	2.03	1.88	PIC16F648A-I/SO
															20-SSOP	PIC16F648A-I/SS-ND	3.83	2.19	2.03	PIC16F648A-I/SS
1K x 14	128	128	16	—	No	Yes	Yes	Yes	1	5	4.0 to 5.5v	20	—	2/1	28-QFN	PIC16F818-I/ML-ND	3.90	2.23	2.07	PIC16F818-I/ML
															18-Dip	PIC16F818-I/P-ND	3.25	1.85	1.72	PIC16F818-I/P
															18-SOIC	PIC16F818-I/SO-ND	3.30	1.89	1.75	PIC16F818-I/SO
															20-SSOP	PIC16F818-I/SS-ND	3.58	2.04	1.89	PIC16F818-I/SS
1K x 14	128	128	16	—	No	Yes	Yes	Yes	1	5	2.0 to 5.5v	20	—	2/1	28-QFN	PIC16LF818-I/ML-ND	3.93	2.24	2.08	PIC16LF818-I/ML
															18-Dip	PIC16LF818-I/P-ND	3.40	1.95	1.81	PIC16LF818-I/P
															18-SOIC	PIC16LF818-I/SO-ND	3.48	1.99	1.84	PIC16LF818-I/SO
															20-SSOP	PIC16LF818-I/SS-ND	3.75	2.14	1.99	PIC16LF818-I/SS
2K x 14	256	256	16	—	No	Yes	Yes	Yes	1	5	4.0 to 5.5v	20	—	2/1	28-QFN	PIC16F819-I/ML-ND	4.38	2.49	2.31	PIC16F819-I/ML
															18-Dip	PIC16F819-I/P-ND	3.70	2.11	1.95	PIC16F819-I/P
															18-SOIC	PIC16F819-I/SO-ND	3.75	2.15	1.99	PIC16F819-I/SO
															20-SSOP	PIC16F819-I/SS-ND	4.05	2.32	2.15	PIC16F819-I/SS
2K x 14	256	256	16	—	No	Yes	Yes	Yes	1	5	2.0 to 5.5v	20	—	2/1	28-QFN	PIC16LF819-I/ML-ND	4.38	2.50	2.32	PIC16LF819-I/ML
															18-Dip	PIC16LF819-I/P-ND	3.88	2.21	2.05	PIC16LF819-I/P
															18-SOIC	PIC16LF819-I/SO-ND	3.95	2.26	2.09	PIC16LF819-I/SO
															20-SSOP	PIC16LF819-I/SS-ND	4.25	2.43	2.26	PIC16LF819-I/SS
4K x 14	368	256	16	—	AUSART	No	No	Yes	1	—	3.0 to 5.5v	20	2	2/1	28-QFN	PIC16F87-I/ML-ND	4.80	2.74	2.54	PIC16F87-I/ML
															18-Dip	PIC16F87-I/P-ND	4.28	2.44	2.27	PIC16F87-I/P
															18-SOIC	PIC16F87-I/SO-ND	4.38	2.49	2.31	PIC16F87-I/SO
															20-SSOP	PIC16F87-I/SS-ND	4.70	2.69	2.49	PIC16F87-I/SS
4K x 14	368	256	16	—	AUSART	No	No	Yes	1	—	2.0 to 5.5v	20	2	2/1	28-QFN	PIC16LF87-I/ML-ND	5.03	2.87	2.66	PIC16LF87-I/ML
															18-Dip	PIC16LF87-I/P-ND	4.50	2.57	2.38	PIC16LF87-I/P
															18-SOIC	PIC16LF87-I/SO-ND	4.58	2.62	2.43	PIC16LF87-I/SO
															20-SSOP	PIC16LF87-I/SS-ND	4.95	2.82	2.62	PIC16LF87-I/SS
4K x 14	368	256	16	—	AUSART	No	No	Yes	1	7	3.0 to 5.5v	20	2	2/1	28-QFN	PIC16F88-I/ML-ND	5.10	2.91	2.70	PIC16F88-I/ML
															18-Dip	PIC16F88-I/P-ND	4.58	2.61	2.42	PIC16F88-I/P
															18-SOIC	PIC16F88-I/SO-ND	4.68	2.67	2.47	PIC16F88-I/SO
															20-SSOP	PIC16F88-I/SS-ND	5.03	2.87	2.66	PIC16F88-I/SS
4K x 14	368	256	16	—	AUSART	No	No	Yes	1	7	2.0 to 5.5v	20	2	2/1	28-QFN	PIC16LF88-I/ML-ND	5.35	3.05	2.83	PIC16LF88-I/ML
															18-Dip	PIC16LF88-I/P-ND	4.80	2.74	2.54	PIC16LF88-I/P
															18-SOIC	PIC16LF88-I/SO-ND	4.90	2.80	2.59	PIC16LF88-I/SO
															20-SSOP	PIC16LF88-I/SS-ND	5.28	3.02	2.80	PIC16LF88-I/SS
2K x 16	256	256	16	3	EUSART	No	No	Yes	1	7	4.2 to 5.5v	40	—	1/3	28-QFN	PIC18F1220-I/ML-ND	4.88	3.01	2.91	PIC18F1220-I/ML
															18-Dip	PIC18F1220-I/P-ND	4.58	2.82	2.73	PIC18F1220-I/P
															18-SOIC	PIC18F1220-I/SO-ND	4.58	2.82	2.73	PIC18F1220-I/SO
															20-SSOP	PIC18F1220-I/SS-ND	4.88	3.01	2.91	PIC18F1220-I/SS
2K x 16	256	256	16	3	EUSART	No	No	Yes	1	7	2.5 to 5.5v	40	—	1/3	28-QFN	PIC18LF1220-I/ML-ND	5.60	3.45	3.34	PIC18LF1220-I/ML
															18-Dip	PIC18LF1220-I/P-ND	5.28	3.26	3.16	PIC18LF1220-I/P
															18-SOIC	PIC18LF1220-I/SO-ND	5.28	3.26	3.16	PIC18LF1220-I/SO
															20-SSOP	PIC18LF1220-I/SS-ND	5.60	3.45	3.34	PIC18LF1220-I/SS
4K x 16	256	256	16	3	EUSART	No	No	Yes	1	7	4.2 to 5.5v	40	—	1/3	28-QFN	PIC18F1320-I/ML-ND	5.50	3.39	3.28	PIC18F1320-I/ML
															18-Dip	PIC18F1320-I/P-ND	5.18	3.20	3.10	PIC18F1320-I/P
															18-SOIC	PIC18F1320-I/SO-ND	5.18	3.20	3.10	PIC18F1320-I/SO
															20-SSOP	PIC18F1320-I/SS-ND	5.50	3.39	3.28	PIC18F1320-I/SS
4K x 16	256	256	16	3	EUSART	No	No	Yes	1	7	2.5 to 5.5v	40	—	1/3	28-QFN	PIC18LF1320-I/ML-ND	6.23	3.84	3.72	PIC18LF1320-I/ML
															18-Dip	PIC18LF1320-I/P-ND	5.93	3.66	3.54	PIC18LF1320-I/P
															18-SOIC	PIC18LF1320-I/SO-ND	5.93	3.66	3.54	PIC18LF1320-I/SO
															20-SSOP	PIC18LF1320-I/SS-ND	6.23	3.84	3.72	PIC18LF1320-I/SS
2K x 16	512	256	25	3	AUSART	MI^{2}C	Yes	Yes	2	10	4.2 to 5.5v	40	2	1/3	28-SOIC	PIC18F2220-I/SO-ND	7.33	4.52	4.37	PIC18F2220-I/SO
															28-Dip .3"	PIC18F2220-I/SP-ND	7.33	4.52	4.37	PIC18F2220-I/SP
2K x 16	512	256	25	3	AUSART	MI^{2}C	Yes	Yes	2	10	2.0 to 5.5v	40	2	1/3	28-SOIC	PIC18LF2220-I/SO-ND	7.68	4.74	4.59	PIC18LF2220-I/SO
															28-Dip .3"	PIC18LF2220-I/SP-ND	7.68	4.74	4.59	PIC18LF2220-I/SP
4K x 16	512	256	25	3	AUSART	MI^{2}C	Yes	Yes	2	10	4.2 to 5.5v	40	2	1/3	28-Dip .3"	PIC18F2320-I/SP-ND	7.93	4.89	4.74	PIC18F2320-I/SP
															28-SOIC	PIC18F2320-I/SO-ND	7.93	4.89	4.74	PIC18F2320-I/SO
4K x 16	512	256	25	3	AUSART	MI^{2}C	Yes	Yes	2	10	2.0 to 5.5v	40	2	1/3	28-Dip .3"	PIC18LF2320-I/SP-ND	8.33	5.14	4.97	PIC18LF2320-I/SP
															28-SOIC	PIC18LF2320-I/SO-ND	8.33	5.14	4.97	PIC18LF2320-I/SO
2K x 16	512	256	36	3	AUSART	MI^{2}C	Yes	Yes	2	13	4.2 to 5.5v	40	2	1/3	44-QFN	PIC18F4220-I/ML-ND	9.63	5.95	5.75	PIC18F4220-I/ML
															40-Dip	PIC18F4220-I/P-ND	8.08	4.99	4.83	PIC18F4220-I/P
															44-TQFP	PIC18F4220-I/PT-ND	9.33	5.76	5.58	PIC18F4220-I/PT
2K x 16	512	256	36	3	AUSART	MI^{2}C	Yes	Yes	2	13	2.0 to 5.5v	40	2	1/3	44-QFN	PIC18LF4220-I/ML-ND	10.10	6.23	6.03	PIC18LF4220-I/ML
															40-Dip	PIC18LF4220-I/P-ND	8.48	5.24	5.07	PIC18LF4220-I/P
															44-TQFP	PIC18LF4220-I/PT-ND	9.80	6.05	5.85	PIC18LF4220-I/PT
4K x 16	512	256	36	3	AUSART	MI^{2}C	Yes	Yes	2	13	4.2 to 5.5v	40	2	1/3	44-QFN	PIC18F4320-I/ML-ND	10.25	6.32	6.12	PIC18F4320-I/ML
															40-Dip	PIC18F4320-I/P-ND	8.70	5.37	5.19	PIC18F4320-I/P
															44-TQFP	PIC18F4320-I/PT-ND	9.93	6.13	5.93	PIC18F4320-I/PT
4K x 16	512	256	36	3	AUSART	MI^{2}C	Yes	Yes	2	13	2.0 to 5.5v	40	2	1/3	44-QFN	PIC18LF4320-I/ML-ND	10.75	6.64	6.42	PIC18LF4320-I/ML
															40-Dip	PIC18LF4320-I/P-ND	9.13	5.63	5.45	PIC18LF4320-I/P
															44-TQFP	PIC18LF4320-I/PT-ND	10.45	6.45	6.24	PIC18LF4320-I/PT

MICROCHIP

18/28/40-Pin 8-Bit CMOS *FLASH* Microcontrollers

PIC16F84/84A: Peripheral Features: • 13 I/O pins with individual direction control • High current sink/source for direct LED drive: 25mA sink max. per pin; 20mA source max. per pin • TMR0: 8-bit timer/counter with 8-bit programmable prescaler (**LF84** • Wide operating voltage range: Commercial: 2.0V to 6.0V; Industrial: 2.0V to 6.0V • Low power consumption: <2mA typical @ 5V, 4 MHz; 15µA typical @ 2V, 32 kHz; <1µA typical standby current @ 2V • Max Frequency: 10 MHz.) (**LF84A** • Wide operating voltage range: Commercial: 2.0V to 5.5V; Industrial: 2.0V to 5.5V • Low power consumption: <2mA typical @ 5V, 4 MHz; 15µA typical @ 2V, 32 kHz; <0.5µA typical standby current @ 2V • Max. Frequency: 20 MHz)

PIC16F87X: Core Features: • High-performance RISC CPU • Only 35 single word instructions to learn • All single cycle instructions except for program branches which are two cycle • Operating Speed: DC – 20MHz clock input; DC – 200ns instruction cycle • Up to 8K x 14 words of FLASH Program Memory; Up to 368 x 8 bytes of Data Memory (RAM); Up to 256 x 8 bytes of EEPROM data memory • Pin-out compatible to the PIC16C72, 73, 74, 76, 77 • Interrupt capability (up to 14 internal/external interrupt sources) • Eight level deep hardware stack • Direct, indirect, and relative addressing modes • Power-on Reset (POR) • Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Programmable code-protection • Power saving SLEEP mode • Selectable oscillator options • Low-power, high-speed CMOS FLASH/EEPROM technology • Fully static design • In-Circuit Serial Programming™ via two pins • Only single 5V source needed for programming • In-Circuit Debugging via two pins • Processor read/write access to program memory • Wide operating voltage range: 2.0V to 5.5V (PIC16LF87X) • High Sink/Source Current: 25mA • Commercial and Industrial temperature ranges • Low-power consumption: <2mA typical @ 5V, 4MHz; 20µA typical @ 3V, 32kHz; <1µA typical standby current

Peripheral Features: • Timer0: 8-bit timer/counter with 8-bit prescaler • Timer1: 16-bit timer/counter with prescaler, can be incremented during sleep via external crystal/clock • Timer2: 8-bit timer/counter with 8-bit period register, prescaler and postscaler • Two Capture, Compare, PWM modules • Capture is 16-bit, max. resolution is 12.5ns; Compare is 16-bit, max. resolution is 200ns; PWM max. resolution is 10-bit • 10-bit multi-channel Analog-to-Digital converter • Synchronous Serial Port (SSP) with SPI™ (Master Mode) and I^{2}C™ (Master/Slave) • Universal Synchronous Asynchronous Receiver Transmitter (USART/SCI) with 9-bit address detection • Parallel Slave Port (PSP) 8-bits wide, with external Read, Write and Chip Select controls (40/44-pin only) • Brown-out detection circuitry for Brown-out Reset (BOR)

DS00092D-ND	Embedded Control Handbook, Volume 1	**$9.95**
DS00711-ND	Embedded Control Handbook, Update 2000	**$5.00**
DS00161-ND	CD-ROM Microchip Technical Library	**$2.25**

Key Features	PIC16F872	PIC16F873	PIC16F874	PIC16F876	PIC16F877
Operating Frequency	DC - 20 MHZ				
Resets (and Delays)	POR, BOR (PWRT, OST)				
FLASH Program Memory (14-bit words)	2K	4K		8K	
Data Memory (bytes)	128	192		368	
EEPROM Data Memory	64	128		256	
Interrupts	10	13	14	13	14
I/O Ports	A,B,C	A,B,C	A,B,C,D,E	A,B,C	A,B,C,D,E
Timers	3				
Capture/Compare/ PWM Modules	1	2			
Serial Communications	MSSP	MSSP, USART			
Parallel Communications	—	—	PSP	—	PSP
10-Bit Analog-to-Digital Module	5-input Channels	5-input Channels	8-input Channels	5-input Channels	8-input Channels
Instruction Set	35 Instructions				

Memory Size		Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Package	Digi-Key Part No.	Price Each		
Program	RAM/ EEPROM								1	25	100
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	18-DIP	PIC16F627-04/P-ND★	3.20	1.82	1.69
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	18-SOIC	PIC16F627-04/SO-ND★	3.25	1.86	1.72
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	20-SSOP	PIC16F627-04/SS-ND	3.50	2.01	1.86
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	32° to 158°F (0°–70°C)	18-DIP	PIC16F627-20/P-ND★	3.43	1.95	1.81
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	32° to 158°F (0°–70°C)	18-SOIC	PIC16F627-20/SO-ND★	3.48	1.99	1.85
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	32° to 158°F (0°–70°C)	20-SSOP	PIC16F627-20/SS-ND	3.75	2.15	1.99
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16F627-04I/P-ND★	3.50	2.01	1.86
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16F627-04I/SO-ND★	3.58	2.05	1.90
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16F627-04I/SS-ND	3.85	2.21	2.05
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16F627-20I/P-ND★	3.75	2.15	1.99
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16F627-20I/SO-ND★	3.83	2.19	2.03
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16F627-20I/SS-ND	4.13	2.36	2.19
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	18-DIP	PIC16F628-04/P-ND★	3.63	2.07	1.92
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	18-SOIC	PIC16F628-04/SO-ND★	3.70	2.11	1.96
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	20-SSOP	PIC16F628-04/SS-ND	3.98	2.28	2.11
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	32° to 158°F (0°–70°C)	18-DIP	PIC16F628-20/P-ND★	3.88	2.21	2.05
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	32° to 158°F (0°–70°C)	18-SOIC	PIC16F628-20/SO-ND★	3.95	2.26	2.09
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	32° to 158°F (0°–70°C)	20-SSOP	PIC16F628-20/SS-ND	4.28	2.44	2.26
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16F628-04I/P-ND★	3.98	2.28	2.11
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16F628-04I/SO-ND★	4.08	2.32	2.15
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16F628-04I/SS-ND	4.38	2.50	2.32
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16F628-20I/P-ND★	4.28	2.44	2.26
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16F628-20I/SO-ND★	4.35	2.49	2.30
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16F628-20I/SS-ND	4.70	2.68	2.48
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	18-DIP	PIC16LF627-04/P-ND★	3.35	1.91	1.78
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	18-SOIC	PIC16LF627-04/SO-ND★	3.43	1.95	1.81
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	20-SSOP	PIC16LF627-04/SS-ND	3.68	2.11	1.95
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16LF627-04I/P-ND★	3.68	2.11	1.95
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16LF627-04I/SO-ND★	3.75	2.15	1.99
1K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16LF627-04I/SS-ND	4.05	2.32	2.15
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	18-DIP	PIC16LF628-04/P-ND★	3.80	2.17	2.02
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	18-SOIC	PIC16LF628-04/SO-ND★	3.88	2.22	2.06
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	32° to 158°F (0°–70°C)	20-SSOP	PIC16LF628-04/SS-ND	4.18	2.39	2.22
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16LF628-04I/P-ND★	4.18	2.39	2.22
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16LF628-04I/SO-ND★	4.28	2.44	2.26
2K x 14	224/128	FLASH	16†	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16LF628-04I/SS-ND	4.60	2.63	2.44
2K x 14	128/—	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-MLF	PIC16F72-I/ML-ND	3.45	2.11	2.04
2K x 14	128/—	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F72-I/SO-ND	3.45	2.11	2.04
2K x 14	128/—	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3”	PIC16F72-I/SP-ND	3.45	2.11	2.04
2K x 14	128/—	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16F72-I/SS-ND	3.60	2.20	2.13
4K x 14	192/—	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-MLF	PIC16F73-I/ML-ND	5.38	3.29	3.18
4K x 14	192/—	FLASH	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F73-I/SO-ND★	5.38	3.29	3.18
4K x 14	192/—	FLASH	22 (5-Ch. 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3”	PIC16F73-I/SP-ND★	5.38	3.29	3.18
4K x 14	192/—	FLASH	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16F73-I/SS-ND★	5.53	3.38	3.27
4K x 14	192/—	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16LF73-I/SO-ND	5.65	3.46	3.34
4K x 14	192/—	FLASH	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F74-I/L-ND★	7.30	4.99	4.83
4K x 14	192/—	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-QFN	PIC16F74-I/ML-ND *NEW!*	8.15	4.99	4.83
4K x 14	192/—	FLASH	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F74-I/P-ND★	6.53	3.99	3.86
4K x 14	192/—	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-TQFP	PIC16F74-I/PT-ND	7.83	4.79	4.63
4K x 14	192/—	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-QFN	PIC16LF74-I/ML-ND *NEW!*	8.53	5.22	5.05
8K x 14	368/—	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-MLF	PIC16F76-I/ML-ND	6.75	4.13	3.99
8K x 14	368/—	FLASH	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3”	PIC16F76-I/SP-ND★	6.75	4.13	3.99
8K x 14	368/—	FLASH	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16F76-I/SS-ND	6.90	4.22	4.08
8K x 14	368/—	FLASH	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F77-I/L-ND★	8.35	5.68	5.50
8K x 14	368/—	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-QFN	PIC16F77-I/ML-ND *NEW!*	9.28	5.67	5.48
8K x 14	368/—	FLASH	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F77-I/P-ND★	7.45	4.56	4.41
8K x 14	368/—	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-QFN	PIC16LF77-I/ML-ND *NEW!*	9.70	5.94	5.75
8K x 14	368/—	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16LF77-I/P-ND	7.83	4.79	4.63
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	18-DIP	PIC16F84-04/P-ND★	6.88	4.51	4.37
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	18-SOIC	PIC16F84-04/SO-ND★	7.00	4.59	4.45
1K x 14	68/64	FLASH	13	Xtal/RC	DC-10MHz	32° to 158° F (0°–70°C)	18-DIP	PIC16F84-10/P-ND★	7.38	4.84	4.69
1K x 14	68/64	FLASH	13	Xtal/RC	DC-10MHz	32° to 158° F (0°–70°C)	18-SOIC	PIC16F84-10/SO-ND★	7.50	4.93	4.78
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz††	32° to 158° F (0°–70°C)	18-DIP	PIC16LF84-04/P-ND★	7.20	4.73	4.58
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz††	32° to 158° F (0°–70°C)	18-SOIC	PIC16LF84-04/SO-ND★	7.33	4.81	4.67
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16F84-04I/P-ND★	7.58	4.98	4.82
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16F84-04I/SO-ND★	7.73	5.07	4.91
1K x 14	68/64	FLASH	13	Xtal/RC	DC-10MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16F84-10I/P-ND★	8.13	5.33	5.17
1K x 14	68/64	FLASH	13	Xtal/RC	DC-10MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16F84-10I/SO-ND★	8.28	5.43	5.26
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz††	-40° to 185°F (-40°–85°C)	18-DIP	PIC16LF84-04I/P-ND★	7.93	5.19	5.04
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz††	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16LF84-04I/SO-ND★	8.05	5.29	5.13
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	18-DIP	PIC16F84A-04/P-ND★	5.63	3.46	3.36
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	18-SOIC	PIC16F84A-04/SO-ND★	5.73	3.53	3.42
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	20-SSOP	PIC16F84A-04/SS-ND★	6.10	3.76	3.65
1K x 14	68/64	FLASH	13	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	18-DIP	PIC16F84A-20/P-ND★	6.00	3.69	3.59
1K x 14	68/64	FLASH	13	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	18-SOIC	PIC16F84A-20/SO-ND★	6.10	3.76	3.65
1K x 14	68/64	FLASH	13	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	20-SSOP	PIC16F84A-20/SS-ND★	6.50	4.00	3.89
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	18-DIP	PIC16LF84A-04/P-ND★	5.90	3.63	3.53
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	18-SOIC	PIC16LF84A-04/SO-ND★	6.00	3.69	3.58
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	20-SSOP	PIC16LF84A-04/SS-ND★	6.40	3.94	3.82
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16F84A-04I/P-ND★	6.18	3.80	3.69

(Continued)

MICROCHIP 18/28/40-Pin 8-Bit CMOS *FLASH* Microcontrollers *(Cont.)*

Memory Size		Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Package	Digi-Key Part No.	Price Each		
PROGRAM	RAM/ EEPROM								1	25	100
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16F84A-04I/SO-ND★	6.28	3.87	3.75
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16F84A-04I/SS-ND★	6.68	4.10	3.99
1K x 14	68/64	FLASH	13	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16F84A-20I/P-ND★	6.60	4.06	3.94
1K x 14	68/64	FLASH	13	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16F84A-20I/SO-ND★	6.70	4.13	4.00
1K x 14	68/64	FLASH	13	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16F84A-20I/SS-ND	7.08	4.36	4.24
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-DIP	PIC16LF84A-04I/P-ND★	6.45	3.97	3.86
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	18-SOIC	PIC16LF84A-04I/SO-ND★	6.58	4.05	3.93
1K x 14	68/64	FLASH	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	20-SSOP	PIC16LF84A-04I/SS-ND★	6.95	4.28	4.15
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F870-I/SO-ND★	4.63	2.83	2.74
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16F870-I/SP-ND★	4.63	2.83	2.74
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16F870-I/SS-ND★	4.78	2.92	2.82
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16LF870-I/SO-ND	4.88	2.98	2.88
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16LF870-I/SS-ND	5.00	3.06	2.96
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16LF870-I/SP-ND	4.88	2.98	2.88
2K x 14	128/64	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F871-I/P-ND★	5.48	3.40	3.12
2K x 14	128/64	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F871-I/L-ND★	6.13	4.39	4.17
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16F872-I/SP-ND★	4.63	2.83	2.74
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F872-I/SO-ND★	4.63	2.83	2.74
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16F872-I/SS-ND★	4.78	2.92	2.82
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16LF872-I/SP-ND★	4.88	2.98	2.88
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16LF872-I/SO-ND★	4.88	2.98	2.88
2K x 14	128/64	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16LF872-I/SS-ND★	5.00	3.06	2.96
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	28-DIP .3"	PIC16F873-04/SP-ND★	7.13	4.36	4.22
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	28-SOIC	PIC16F873-04/SO-ND★	7.13	4.36	4.22
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	28-DIP .3"	PIC16F873-20/SP-ND★	7.63	5.12	4.95
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	28-SOIC	PIC16F873-20/SO-ND★	7.63	5.55	5.36
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	28-DIP .3"	PIC16LF873-04/SP-ND★	7.48	5.03	4.86
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	28-SOIC	PIC16LF873-04/SO-ND★	7.48	5.46	5.28
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16F873-04I/SP-ND★	7.83	5.26	5.09
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F873-04I/SO-ND★	7.83	5.70	5.52
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F873-20I/SO-ND★	8.38	6.06	5.87
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP	PIC16F873-20I/SP-ND★	8.38	5.63	5.45
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185° F (-40°–85°C)	28-DIP .3"	PIC16LF873-04I/SP-ND★	8.23	5.03	4.87
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16LF873-04I/SO-ND★	8.23	6.13	5.93
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16F873A-I/SP-ND§	6.55	4.01	3.87
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F873A-I/SO-ND§	6.55	4.01	3.87
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16F873A-I/SS-ND§	6.70	4.12	4.00
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16LF873A-I/SO-ND§	6.88	4.21	4.07
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16LF873A-I/SP-ND§	6.88	4.21	4.07
4K x 14	192/128	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16LF873A-I/SS-ND§	7.23	4.46	4.32
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	40-DIP	PIC16F874-04/P-ND★	7.78	5.18	5.01
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	44-PLCC	PIC16F874-04/L-ND★	8.70	7.20	6.96
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	40-DIP	PIC16F874-20/P-ND★	8.33	5.55	5.36
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	44-PLCC	PIC16F874-20/L-ND★	9.30	7.69	7.44
4K x 14	192/128	FLASH	33 (8-Ch.,10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	40-DIP	PIC16LF874-04/P-ND★	8.15	5.44	5.26
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	44-PLCC	PIC16LF874-04/L-ND★	9.13	7.55	7.30
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F874-04I/P-ND★	8.55	5.70	5.52
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F874-20I/L-ND★	10.25	8.43	8.16
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F874-20I/P-ND★	9.15	6.10	5.90
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F874-04I/L-ND★	9.58	7.90	7.64
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16LF874-04I/P-ND★	8.98	5.99	5.79
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16LF874-04I/L-ND★	10.05	8.28	8.01
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F874A-I/L-ND§	8.03	5.24	5.07
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F874A-I/P-ND§	7.15	4.38	4.24
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-TQFP	PIC16F874A-I/PT-ND	8.23	5.04	4.87
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-QFN	PIC16F874A-I/ML-ND *NEW!*	8.23	5.03	4.87
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°-85°C)	44-QFN	PIC16LF874A-I/ML-ND *NEW!*	8.65	5.29	5.12
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16LF874A-I/L-ND§	8.43	5.49	5.31
4K x 14	192/128	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16LF874A-I/P-ND§	7.53	4.60	4.45
8K x 14	368/—	FLASH	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F76-I/SO-ND★	6.75	4.13	3.99
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	28-DIP .3"	PIC16F876-04/SP-ND★	7.68	5.13	4.96
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	28-SOIC	PIC16F876-04/SO-ND★	7.68	5.13	4.96
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	28-DIP .3"	PIC16F876-20/SP-ND★	8.23	5.49	5.31
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	28-SOIC	PIC16F876-20/SO-ND★	8.23	5.49	5.31
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	28-DIP .3"	PIC16LF876-04/SP-ND★	8.08	5.39	5.21
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	28-SOIC	PIC16LF876-04/SO-ND★	8.08	5.39	5.21
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16F876-04I/SP-ND★	8.45	5.64	5.46
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F876-04I/SO-ND★	8.45	5.64	5.46
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F876-20I/SO-ND★	9.05	6.04	5.84
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16F876-20I/SP-ND★	9.05	6.04	5.84
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16LF876-04I/SP-ND★	8.88	5.93	5.73
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16LF876-04I/SO-ND★	8.88	5.93	5.73
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16F876A-I/SO-ND§	7.05	4.31	4.17
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16F876A-I/SP-ND§	7.05	4.31	4.17
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16F876A-I/SS-ND§	7.20	4.43	4.29
8K x 14	368/256	FLASH	22 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	28-QFN	PIC16F876A-I/ML-ND *NEW!*	7.05	4.31	4.17
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SOIC	PIC16LF876A-I/SO-ND§	7.40	4.52	4.38
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-DIP .3"	PIC16LF876A-I/SP-ND§	7.40	4.52	4.38
8K x 14	368/256	FLASH	22 (5-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	28-SSOP	PIC16LF876A-I/SS-ND§	7.55	4.65	4.50
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	40-DIP	PIC16F877-04/P-ND★	8.40	5.13	4.96
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	44-PLCC	PIC16F877-04/L-ND★	9.40	7.13	6.89
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	40-DIP	PIC16F877-20/P-ND★	8.98	5.49	5.31
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158° F (0°–70°C)	44-PLCC	PIC16F877-20/L-ND★	10.05	7.61	7.36
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	40-DIP	PIC16LF877-04/P-ND★	8.80	5.39	5.21
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158° F (0°–70°C)	44-PLCC	PIC16LF877-04/L-ND★	9.88	7.47	7.23
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F877-04I/P-ND★	9.23	5.64	5.46
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F877-04I/L-ND★	10.33	7.82	7.56
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F877-20I/L-ND★	11.05	8.35	8.08
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F877-20I/P-ND★	9.88	6.04	5.84
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16LF877-04I/P-ND★	9.70	5.93	5.73
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16LF877-04I/L-ND★	10.85	8.20	7.93
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16F877A-I/L-ND§	8.63	5.62	5.44
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-QFN	PIC16F877A-I/ML-ND *NEW!*	8.88	5.43	5.25
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16F877A-I/P-ND§	7.70	4.72	4.56
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-TQFP	PIC16F877A-I/PT-ND	8.88	5.42	5.25
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	44-PLCC	PIC16LF877A-I/L-ND§	9.08	5.89	5.70
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	44-QFN	PIC16LF877A-I/ML-ND *NEW!*	9.30	5.69	5.50
8K x 14	368/256	FLASH	33 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40°–85°C)	40-DIP	PIC16LF877A-I/P-ND§	8.10	4.95	4.79
1K x 14	64/128	FLASH	12 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	14-DIP	PIC16F676-I/P-ND	2.28	1.40	1.35
1K x 14	64/128	FLASH	12 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	14-SOIC	PIC16F676-I/SL-ND	2.28	1.40	1.35
1K x 14	64/128	FLASH	12 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	14-TSSOP	PIC16F676-I/ST-ND	2.50	1.55	1.50
1K x 14	64/128	FLASH	12 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	14-SOIC	PIC16F630-I/SL-ND *NEW!*	1.98	1.21	1.17
1K x 14	64/128	FLASH	12 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	14-TSSOP	PIC16F630-I/ST-ND *NEW!*	2.20	1.36	1.32
1K x 14	64/128	FLASH	12 (8-Ch., 10-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40°–85°C)	14-DIP	PIC16F630-I/P-ND *NEW!*	1.98	1.21	1.17

† Two Analog Comparators and One 10 Bit PWM   § Only supported by Promate II, not Picstart Plus and ICD.   †† Low power oscillation 200KHz Max.

★ *Digi-Key now offers a programming service using customer supplied Master IC and software disk for Microchips PIC family. The following formats are supported by our programming center: BIN16 — 16-bit binary format (default for PGM16/TASM16), INHXM8 — Merged 8-bit Intel™ Hex (Parallax) format, INHXS8 — Split 8-bit Intel™ Hex format, INHX16 — 16-bit Intel™ Hex format. For further information and price quotes, please call 1-800-344-4539, and request the programming center.*

MICROCHIP

8-Pin FLASH-Based 8-Bit CMOS Microcontrollers

PIC12F629/675 Series

High Performance RISC CPU:

• Only 35 instructions to learn • All single cycle instructions (200 ns), except for program branches which are two-cycles • Operating speed: DC - 20 MHz oscillator/clock input, DC - 200 ns instruction cycle • Interrupt capability • 16 special function hardware registers • 8-level deep hardware stack • Direct, Indirect, and Relative Addressing modes

Peripheral Features:

• 6 I/O pins with individual direction control • High current sink/source for direct LED drive • Analog comparator module with: One analog comparator, Programmable on-chip comparator voltage reference (CVREF) module, Programmable input multiplexing from device inputs, Comparator output is externally accessible • Analog-to-Digital Converter module (PIC12F675): 10-bit resolution, Programmable 4-channel input, Voltage reference input • Timer0: 8-bit timer/counter with 8-bit programmable prescaler • Enhanced Timer1: 16-bit timer/counter with prescaler, External Gate Input mode, Option to use OSC1 and OSC2 in LP mode as Timer1 oscillator, if INTRC Oscillator mode selected

Special Microcontroller Features:

• Low power Power-on Reset (POR) • Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Low power Brown-out Detect (BOD) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • In-Circuit Serial Programming™ (ICSP™) via two pins

CMOS Technology:

• Low power, high speed CMOS FLASH technology • Fully static design • Wide operating voltage range: PIC12F629/675 - 2.0V to 5.5V • Low power consumption: <1.0 mA @ 5.5V, 4.0 MHz, 20 µA typical @ 2.0V, 32 KHz, <1.0 µA typical standby current @ 2.0V

Memory Size			Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
FLASH	RAM	EEPROM								1	25	100
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-DFN	PIC12F629-I/MF-ND	1.90	1.17	1.14
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-DFN	PIC12F629-I/MFTR-ND		3993.00/3,300	
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-Dip	PIC12F629-I/P-ND	1.68	1.03	.99
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-SOIC	PIC12F629-I/SN-ND	1.68	1.03	.99
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-SOIC	PIC12F629-I/SNTR-ND		3531.00/3,300	
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-DFN	PIC12F629-E/MF-ND	2.10	1.29	1.25
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-DFN	PIC12F629-E/MFTR-ND		4389.00/3,300	
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-Dip	PIC12F629-E/P-ND	1.83	1.13	1.09
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-SOIC	PIC12F629-E/SN-ND	1.83	1.13	1.09
1K x 14	64 x 8	128 x 8	FLASH	6	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-SOIC	PIC12F629-E/SNTR-ND		3597.00/3,300	
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch., 10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-DFN	PIC12F675-I/MF-ND	2.33	1.44	1.39
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch., 10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-DFN	PIC12F675-I/MFTR-ND		4818.00/3,300	
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch., 10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-Dip	PIC12F675-I/P-ND	2.08	1.29	1.25
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch., 10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-SOIC	PIC12F675-I/SN-ND	2.08	1.29	1.25
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch., 10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 185°F (-40° – 85°C)	8-SOIC	PIC12F675-I/SNTR-ND		4356.00/3,300	
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch., 10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-DFN	PIC12F675-E/MF-ND	2.55	1.58	1.53
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch.,10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-DFN	PIC12F675-E/MFTR-ND		5313.00/3,300	
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch., 10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-Dip	PIC12F675-E/P-ND	2.30	1.42	1.37
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch.,10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-SOIC	PIC12F675-E/SN-ND	2.30	1.42	1.37
1K x 14	64 x 8	128 x 8	FLASH	6 (4-Ch.,10-Bit ADC)	Xtal/RC	DC-20MHz	-40° – 257°F (-40° – 125°C)	8-SOIC	PIC12F675-E/SNTR-ND		4785.00/3,300	

rfPIC12C509 8-Bit CMOS Microcontroller with UHF ASK/FSK Transmitter

The rfPIC12C509AG/509AF from Microchip Technology is a low-cost, high performance, 8-bit, fully static, EPROM-based CMOS microcontroller combined with a UHF ASK/FSK transmitter. It employs an RISC architecture with only 33 single word/single cycle instructions. All instructions are single cycle (1µs) except for program branches which take two cycles. The Transmitter is a fully integrated UHF ASK/FSK transmitter consisting of crystal oscillator, phase-locked loop (PLL), open-collector differential-output Power Amplifier (PA), and mode control logic. External components consist of bypass capacitors, crystal, and PLL loop filter. There are no internal electrical connections between the PICmicro MCU and the transmitter. The PICmicro MCU oscillator is independent from the transmitter crystal oscillator. The rfPIC12C509AG is capable of Amplitude Shift Keying (ASK) modulation by turning the PA on and off. The rfPIC12C509AF is capable of ASK or Frequency Shift Keying (FSK) modulation by employing an internal FSK switch to pull the transmitter crystal via a second load capacitor.

Features:
- Conforms to US FCC Part 15.231 regulations and European ERC 70-03E and EN 300 220-1 requirements
- Frequency range set by crystal: 310-480MHz
- ASK Data rate: 0-40Kbps
- FSK through crystal pulling allows modulation at 0-20Kbps
- Adjustable output power: +2dBm to -12dBm in six discrete steps
- Wide temperature range: Industrial: -40°C to +85°C

Memory Size		Configuration	I/O Lines	Oscillator Type External*	Frequency Range Min./Max.	Type of Transmitter	Pkg. Type	Digi-Key Part No.	Price Each		
PROGRAM	RAM								1	25	100
1024 x 12	41	EPROM	6	RC/XT/LP	DC - 4MHz	ASK/FSK	20-CDip	RFPIC12C509AF/JW-ND	11.58	—	10.13
		OTP				ASK/FSK	20-SSOP	RFPIC12C509AF-I/SS-ND	4.00	2.30	2.23
1024 x 12	41	EPROM	6	RC/XT/LP	DC - 4MHz	ASK	18-CDip	RFPIC12C509AG/JW-ND	11.58	—	10.13
		OTP				ASK	18-SOIC	RFPIC12C509AG-I/SO-ND	3.83	2.20	2.12

* Has internal RC Oscillator @ 4MHz.

EPROM-Based 8-Bit CMOS Microcontrollers

PIC16C55X Series

High Performance RISC CPU:

• Only 35 instructions to learn • All single-cycle instructions (200ns), except for program branches which are two-cycles • Operating Speed: DC - 20 MHz clock input, DC - 200 ns instruction cycle • Interrupt capability • 16 special function hardware registers • 8-level deep hardware stack • Direct, Indirect and Relative addressing modes

Peripheral Features:

• 13 I/O pins with individual direction control • High current sink/source for direct LED drive • Timer0: 8-bit timer/counter with 8-bit programmable prescaler

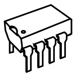
DS00161-ND CD-ROM Microchip Technical Library **$2.25**

Memory Size		Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
512 x 14	80 x 8	OTP	13	Xtal/RC	DC - 4MHz	32° – 158°F	18-Dip	PIC16C554-04/P-ND★	3.73	2.70	2.25
		OTP			DC - 4MHz	(0° – 70°C)	18-SOIC	PIC16C554-04/SO-ND★	3.80	2.75	2.29
2K x 14	128 x 8	EPROM	13	Xtal/RC	DC - 20 MHz	32° – 158°F	18-CDip	PIC16C558/JW-ND	10.14	—	8.86
		OTP			DC - 4MHz	(0° – 70°C)	18-Dip	PIC16C558-04/P-ND★	4.88	3.54	2.95
		OTP			DC - 4MHz		18-SOIC	PIC16C558-04/SO-ND★	4.98	3.61	3.01

★ *This part can be programmed by Digi-Key. For further information and price quotes, please call 1-800-344-4539, and request the programming center.*

8-Pin, 8-Bit Microcontrollers

PIC12C50X, PIC12CE5XX and PIC12C67X Series



High-Performance RISC CPU:

• Only 33 single word instructions to learn • All instructions are single cycle (1µs) except for program branches which are two-cycle • Operating Speed: DC - 4 MHz clock input, DC - 1µs instruction cycle • 12-bit wide instructions • 8-bit wide data path • Seven special function hardware registers • Two-level deep hardware stack • Direct, indirect and relative addressing modes for data and instructions • Internal 4 MHz RC oscillator with programmable calibration • In-circuit serial programming

Peripheral Features:

• 8-bit real time clock/counter (TMR0) with 8-bit programmable prescaler • Power-On Reset (POR) • Device Reset Timer (DRT) •Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Programmable code-protection • Power saving SLEEP mode • Wake-up from SLEEP on pin change • Internal pull-ups on I/O pins

Selectable Oscillator Options:

• INTRC - Internal 4 MHz RC oscillator • EXTRC - External low-cost RC oscillator • XT - Standard crystal/resonator • LP - Power saving, low frequency crystal • Internal pull-up on MCLR pin

Applications:

The PIC12C5XX series fits perfectly in applications ranging from personal care appliances and security systems to low-power remote transmitters/receivers (e.g., timer functions, replacement of "glue" logic and PLDs in larger systems, co-processor applications).

8 PIN MCU with A/D:

PIC12C67X microcontrollers typically achieve a 2:1 code compression and a 4:1 speed improvement over other 8-bit microcontrollers in their class.

The PIC12C67X devices have 128 bytes of RAM and 6 I/O pins. In addition a timer/counter is available. Also a 4-channel high-speed 8-bit A/D is provided. The 8-bit resolution is ideally suited for applications requiring low-cost analog interface, e.g., thermostat control, pressure sensing, etc.

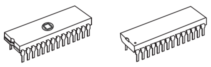
DS00161-ND	CD-ROM Microchip Technical Library	**$2.25**
DS00711-ND	Embedded Control Handbook Update 2000	**$5.00**

Memory Size		Configuration	I/O Lines	Oscillator Type External †	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
512 x 12	25 x 8	EPROM	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12C508/JW-ND	9.65	—	8.44
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12C508-04/P-ND	2.05	1.72	1.40
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12C508-04/SM-ND	2.15	1.81	1.47
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12C508-04I/P-ND	2.25	1.90	1.54
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12C508-04I/SM-ND	2.38	1.99	1.61
512 x 12	25 x 8	EPROM	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12C508A/JW-ND	9.17	—	8.02
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12C508A-04/P-ND	1.58	.97	.94
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12C508A-04/SM-ND	1.58	.97	.94
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC	PIC12C508A-04/SN-ND	1.63	1.01	.98
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12C508A-04I/P-ND	1.73	1.07	1.03
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12C508A-04I/SM-ND	1.73	1.07	1.03
512 x 12	25 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC	PIC12C508A-04I/SN-ND	1.80	1.11	1.07
1K x 12	41 x 8	EPROM	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12C509/JW-ND	10.14	—	8.86
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12C509-04/P-ND	2.28	1.90	1.54
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12C509-04/SM-ND	2.38	2.00	1.62
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12C509-04I/P-ND	2.50	2.09	1.70
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12C509-04I/SM-ND	2.60	2.18	1.76
1K x 12	41 x 8	EPROM	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12C509A/JW-ND	9.65	—	8.44
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12C509A-04/P-ND	1.63	1.01	.97
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12C509A-04/SM-ND	1.63	1.01	.97
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC	PIC12C509A-04/SN-ND	1.70	1.05	1.02
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12C509A-04I/P-ND	1.80	1.11	1.07
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12C509A-04I/SM-ND	1.80	1.11	1.07
1K x 12	41 x 8	OTP	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC	PIC12C509A-04I/SN-ND	1.85	1.14	1.10
512 x 12	25 x 8	EPROM‡	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12CE518/JW-ND	10.23	—	8.94
512 x 12	25 x 8	OTP‡	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12CE518-04/P-ND	1.93	1.19	1.15
512 x 12	25 x 8	OTP‡	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12CE518-04/SM-ND	2.03	1.25	1.21
512 x 12	25 x 8	OTP‡	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12CE518-04I/P-ND	2.13	1.31	1.27
512 x 12	25 x 8	OTP‡	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12CE518-04I/SM-ND	2.23	1.37	1.33
1K x 12	41 x 8	EPROM‡	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12CE519/JW-ND	10.81	—	9.45
1K x 12	41 x 8	OTP‡	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12CE519-04/P-ND	2.10	1.29	1.25
1K x 12	41 x 8	OTP‡	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12CE519-04/SM-ND	2.20	1.36	1.31
1K x 12	41 x 8	OTP‡	5	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC	PIC12CE519-04/SN-ND	2.25	1.39	1.35
1K x 12	41 x 8	OTP‡	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12CE519-04I/P-ND	2.30	1.42	1.38
1K x 12	41 x 8	OTP‡	5	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12CE519-04I/SM-ND	2.40	1.48	1.43
1K x 14	128	EPROM	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12C671/JW-ND	8.62	—	7.54
1K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12C671-04/P-ND	2.88	1.77	1.71
1K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12C671-04/SM-ND	3.00	1.86	1.80
1K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12C671-10/P-ND	3.08	1.89	1.83
1K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12C671-10/SM-ND	3.23	1.99	1.92
1K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12C671-04I/P-ND	3.15	1.94	1.88
1K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12C671-04I/SM-ND	3.30	2.04	1.98
1K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12C671-10I/P-ND	3.38	2.08	2.02
2K x 14	128	EPROM	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12C672/JW-ND	8.63	—	7.54
2K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12C672-04/P-ND	2.88	1.77	1.71
2K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Soic*	PIC12C672-04/SM-ND	3.00	1.86	1.80
2K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12C672-10/P-ND	3.08	1.89	1.83
2K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-SOIC*	PIC12C672-10/SM-ND	3.23	1.99	1.92
2K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12C672-04I/P-ND	3.15	1.94	1.88
2K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12C672-04I/SM-ND	3.30	2.04	1.98
2K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12C672-10I/P-ND	3.38	2.08	2.01
2K x 14	128	OTP	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	8-SOIC*	PIC12C672-10I/SM-ND	3.55	2.18	2.12
1K x 14	128 x 8	EPROM‡	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12CE673/JW-ND	9.49	—	8.30
1K x 14	128 x 8	OTP‡	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12CE673-04/P-ND	3.38	2.08	2.02
1K x 14	128 x 8	OTP‡	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12CE673-10/P-ND	3.63	2.23	2.16
2K x 14	128 x 8	EPROM‡	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-CDip	PIC12CE674/JW-ND	9.49	—	8.30
2K x 14	128 x 8	OTP‡	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12CE674-04/P-ND	3.38	2.08	2.02
2K x 14	128 x 8	OTP‡	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	8-Dip	PIC12CE674-04I/P-ND	3.73	2.29	2.22
2K x 14	128 x 8	OTP‡	6 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	8-Dip	PIC12CE674-10/P-ND	3.63	2.23	2.16

† Has internal RC Oscillator @ 4MHz (See data sheet for accuracy) ‡ 16-Byte EEPROM * Body width = .208 Inches (nominal)

8-Bit RISC Microcontrollers

PIC16C5X and PIC16HV540 Series



General Description: Microchip's long history of innovation has proven its commitment to develop and market leading edge products. With its PIC, Microchip has engineered *the most advanced low-to mid range 8-Bit Microcontroller family on the market today*. The flexibility of CMOS OTP EPROM Technology, the superior performance of RISC Architecture and the smallest packaging combined with affordable pricing are the prime reasons systems designers select PIC as their Microcontroller of Choice. With PIC, the 8-12 week lead time typical of ROM MCUs is reduced to just days. In addition, PIC's code compaction factor takes weeks off system design time. PIC's small die size combined with Microchip's advanced CMOS technology, support a *wide performance range* and low operating and standby currents. Low currents are ideal for long-life battery dependent applications. One of PIC's strongest suits is its I/O capability.

PIC16C5X (Use Programmer PICSTART Plus)

Features: Only 33 single word instructions to learn • All single cycle instructions (200 ns) except for program branches which are two-cycle • 12-bit wide instructions • 8-bit wide data path • 512 - 2K x 12 on-chip EPROM program memory • 25 to 73 x 8 general purpose registers (SRAM) • 7 special function hardware registers • 2 level deep hardware stack • Direct, indirect and relative addressing modes for data and instructions • 8 bit real time clock/counter (RTCC) with 8-bit programmable prescaler • Oscillator start-up timer • Watchdog timer (WDT) with its own on-chip RC oscillator.

PIC16C54C (Use Programmer PICSTART Plus)

Features: The PIC16C54C expands the baseline family with a low end device that offers lower power consumption and enhanced electrical characteristics. The PIC16C54C provides a cost reduction path for PIC16C57 and PIC16C58B users that require less program memory or data memory for a new application. Also some current PIC16C54, 54A, and 54B users may migrate to the PIC16C54C to enjoy the advantages of lower power consumption and enhanced electrical characteristics all at a lower cost. Software is supported from the PIC16C54 directly to the PIC16C54C with no software code changes. The PIC16C54C is equipped with special microcontroller-like features that reduce system cost and power requirements. There are four oscillator configurations to choose from, including power saving LP (Low Power) oscillator and cost saving RC oscillator.

PIC16HV540 (Enhanced PIC16C54 EPROM-Based 8-Bit CMOS Microcontroller with On-Chip Voltage Regulator)

General Description: The PIC16HV540 is a low-cost, high-performance, 8-bit, fully-static, EPROM-based CMOS microcontroller. It is pin and software compatible with the PIC16C5X family of devices. It employs an RISC architecture with only 33 single word/single cycle instructions. The PIC16HV540 is the first One-Time-Programmable (OTP) microcontroller with an on-chip 3 Volt and 5 Volt regulator. This eliminates the need for an external regulator in many applications powered from 9 Volt or 12 Volt batteries or unregulated 6 Volt, 9 Volt or 12 Volt mains adapters. The PIC16HV540 is ideally suited for applications that require very low standby current at high voltages. These typically require expensive low current regulators.

The PIC16HV540 is equipped with special features that reduce system cost and power requirements. The Power-On Reset (POR) and Device Reset Timer (DRT) eliminate the need for external reset circuitry. There are four oscillator configurations to choose from, including the power-saving LP (Low Power) oscillator, cost-saving RC oscillator, and XT and HS for crystal oscillators. Power saving SLEEP mode, Watchdog Timer and code protection features improve system cost, power and reliability.

Applications: The PIC16HV540 is very versatile even in areas where no microcontroller use has been considered before (e.g., timer functions, replacement of "glue" logic in larger systems, coprocessor applications). The PIC16HV540 fits perfectly in low-power battery applications such as CO and smoke detection, toys, games, security systems and automobile modules.

Features: • High-Performance RISC CPU • 18-pins • 12 I/O • 512 EPROM • 25 RAM • Only 33 single word instructions to learn • All instructions are single cycle (200 ns) except for program branches which are two-cycle • Operating Speed: DC - 20 MHz clock input; 200 - ns instruction cycle • 12-bit wide instructions • 8-bit wide data path • Seven special function hardware registers • ***Four-level deep hardware stack*** • Direct, indirect and relative addressing modes for data and instructions. **Peripheral Features:** • 8-bit real time clock/counter (TMR0) with 8-bit programmable prescaler • Power-On Reset (POR) • Brown-Out Protection • Device Reset Timer (DRT) with short RC-oscillator start up time • Programmable Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Sleep Timer • ***8 High Voltage I/O*** • ***4 Regulated I/O*** • Wake up from SLEEP on pin change • Programmable code-protection • Power saving SLEEP mode • Selectable oscillator options: RC – Low-cost RC oscillator; XT – Standard crystal/resonator; HS – High speed crystal/resonator; LP – Power saving, low frequency crystal • Glitch filtering on master clear and pin change inputs. **CMOS Technology:** • ***Selectable on-chip 3V/5V Regulator*** • Low-power, high-speed CMOS EPROM technology • Fully static design • ***Wide-operating voltage range: 3.5V to 15V*** • Temperature range: Commercial: 0°C to 70°C; Industrial: -40°C to 85°C • Low-power consumption: <2mA typical @ 5V, 4 MHz; 15µA typical @ 3A, 32kHz; <4.5µA typical standby current @ 15V (with WDT disabled), 0°C t0 70°C.

PIC16C58B (Use Programmer PICSTART Plus)

Features: The PIC16C58B expands the baseline family support with a larger memory, small pin count device. The PIC16C58B provides upward migration path to PIC16C54 and PIC16C56 customers that require more program or data memory. In addition, PIC16C57 customers that do not require as much I/O capability can migrate down to 18 pins to save cost and board space. The PIC16C58B positions in the high-end of the baseline family between the PIC16C56 and the PIC16C57 providing the same memory capability of the PIC16C57 in the smaller 18 pin package. Only small code changes are necessary to interface to the I/O pins will be required The PIC16C58B is equipped with special microcontroller-like features that reduce system cost and power requirements. There are four user selectable oscillator configurations to choose from, including power saving LP (Low Power) oscillator and cost saving RC oscillator.

Maximum output current sinked by any I/O pin = 25mA; sourced by any I/O pin = 20mA. Do not exceed more than 800 mw of total power dissipation. EPROM = Erasable PROM; OTP= One Time Programmable Only

PIC16C505 14-pin PIC.

See chart for specifications.

DS00092D-ND	Embedded Control Handbook, Volume 1	**$9.95**
DS00711-ND	Embedded Control Handbook, Updated 2000	**$5.00**
DS00161-ND	CD-ROM Microchip Technical Library	**$2.25**

Memory Size		Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
1K x 12	72 x 8	EPROM	11	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	14-CDip	PIC16C505/JW-ND	6.25	—	5.20
1K x 12	72 x 8	OTP	11	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	14-Dip	PIC16C505-04/P-ND★	2.05	1.26	1.22
1K x 12	72 x 8	OTP	11	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	14-Soic	PIC16C505-04/SL-ND	2.05	1.26	1.22
1K x 12	72 x 8	OTP	11	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	14-Dip	PIC16C505-04I/P-ND★	2.05	1.26	1.22
1K x 12	72 x 8	OTP	11	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	14-Soic	PIC16C505-04I/SL-ND	2.05	1.26	1.22
1K x 12	72 x 8	OTP	11	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	14-Dip	PIC16C505-20/P-ND★	2.13	1.31	1.27
1K x 12	72 x 8	OTP	11	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	14-Soic	PIC16C505-20/SL-ND	2.13	1.31	1.27
1K x 12	72 x 8	OTP	11	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	14-Dip	PIC16C505-20I/P-ND★	2.13	1.31	1.27
1K x 12	72 x 8	OTP	11	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	14-Soic	PIC16C505-20I/SL-ND	2.13	1.31	1.27
512 x 12	25 x 8	OTP	12	RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C54-RC/P-ND★	3.70	2.72	2.53
512 x 12	25 x 8	OTP	12	RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C54-RC/SO-ND★	3.78	2.78	2.58
512 x 12	25 x 8	OTP	12	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C54-XT/SO-ND★	3.78	2.78	2.58
512 x 12	25 x 8	OTP	12	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C54-HS/P-ND★	3.95	2.91	2.71
512 x 12	25 x 8	OTP	12	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C54-HS/SO-ND★	4.05	2.97	2.76
512 x 12	25 x 8	OTP	12	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C54-LP/P-ND★	3.88	2.86	2.66
512 x 12	25 x 8	OTP	12	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C54-LP/SO-ND★	3.98	2.92	2.71
512 x 12	25 x 8	OTP	12	RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C54-RCI/P-ND★	4.08	3.00	2.78
512 x 12	25 x 8	OTP	12	Xtal	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C54-XTI/P-ND★	4.08	3.00	2.78
512 x 12	25 x 8	OTP	12	Xtal	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C54-XTI/SO-ND★	4.15	3.06	2.84
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C54A-04/P-ND★	3.70	2.72	2.53
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C54A-04/SO-ND★	3.78	2.78	2.58
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C54A-04/SS-ND★	4.08	3.00	2.79
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC54A-04/SO-ND★	3.95	2.91	2.71
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C54A-10/P-ND★	3.95	2.91	2.71
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C54A-20/P-ND★	4.23	3.12	2.90
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C54A-20/SO-ND★	4.33	3.18	2.95
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C54A-20/SS-ND★	4.68	3.44	3.19
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C54A-04I/SO-ND★	4.15	3.05	2.84
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16LC54A-04I/SO-ND★	4.35	3.21	2.98
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C54A-10I/P-ND★	4.35	3.20	2.98
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C54A-20I/P-ND★	4.65	3.43	3.19
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C54A-20I/SO-ND★	4.75	3.50	3.25
512 x 12	25 x 8	EPROM	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C54C/JW-ND	6.59	—	5.40
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C54C-04/P-ND★	2.30	1.42	1.37
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C54C-04/SO-ND★	2.35	1.45	1.40
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C54C-04/SS-ND★	2.53	1.56	1.51
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C54C-20/P-ND★	2.48	1.52	1.47
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C54C-20/SO-ND★	2.53	1.55	1.50
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C54C-20/SS-ND★	2.73	1.67	1.62
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C54C-04I/P-ND★	2.30	1.42	1.37
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C54C-04I/SO-ND★	2.35	1.45	1.40
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	20-SSOP	PIC16C54C-04I/SS-ND★	2.53	1.56	1.51
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C54C-20I/P-ND★	2.48	1.52	1.47
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C54C-20I/SO-ND★	2.53	1.55	1.50
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-SSOP	PIC16C54C-20I/SS-ND★	2.73	1.67	1.62
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16HV540-04/P-ND	2.30	1.42	1.37
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16HV540-04/SO-ND	2.35	1.45	1.40
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16HV540-20/P-ND	2.45	1.52	1.47
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16HV540-20/SO-ND	2.50	1.55	1.50
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16HV540-04I/P-ND	2.30	1.42	1.37
512 x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16HV540-04I/SO-ND	2.35	1.45	1.40
512 x 12	24 x 8	OTP	20	RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C55-RC/P-ND★	4.55	3.34	3.10
512 x 12	24 x 8	OTP	20	RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C55-RC/SO-ND★	4.73	3.47	3.23
512 x 12	24 x 8	OTP	20	RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C55-RC/SP-ND★	4.55	3.34	3.10
512 x 12	24 x 8	OTP	20	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C55-XT/P-ND★	4.85	3.57	3.32

(Continued)

MICROCHIP 8-Bit RISC Microcontrollers *(Cont.)*

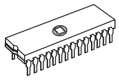
Memory Size									Price Each		
EPROM	RAM	Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	1	25	100
512 x 12	24 x 8	OTP	20	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C55-XT/SO-ND★	5.05	3.72	3.45
512 x 12	24 x 8	OTP	20	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C55-XT/SP-ND★	4.85	3.57	3.32
512 x 12	24 x 8	OTP	20	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C55-HS/P-ND★	5.55	4.09	3.80
512 x 12	24 x 8	OTP	20	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C55-HS/SO-ND★	5.78	4.25	3.95
512 x 12	24 x 8	OTP	20	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C55-HS/SP-ND★	5.55	4.09	3.80
512 x 12	24 x 8	OTP	20	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C55-LP/P-ND★	4.78	3.51	3.26
512 x 12	24 x 8	OTP	20	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C55-LP/SO-ND★	4.95	3.65	3.39
512 x 12	24 x 8	OTP	20	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C55-LP/SP-ND★	4.78	3.51	3.26
512 x 12	24 x 8	OTP	20	Xtal	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip	PIC16C55-HSI/P-ND★	6.13	4.50	4.18
512 x 12	24 x 8	OTP	20	Xtal	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C55-HSI/SO-ND★	6.35	4.68	4.35
512 x 12	24 x 8	OTP	20	RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip	PIC16C55-RCI/P-ND★	5.00	3.67	3.41
512 x 12	24 x 8	OTP	20	Xtal	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip	PIC16C55-XTI/P-ND★	5.35	3.93	3.65
512 x 12	24 x 8	OTP	20	Xtal	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C55-XTI/SO-ND★	5.55	4.09	3.80
512 x 12	25 x 8	EPROM	20	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip	PIC16C55A/JW-ND	7.35	—	6.42
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C55A-04/P-ND★	2.83	1.74	1.68
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C55A-04/SO-ND★	2.93	1.80	1.75
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C55A-04/SP-ND★	2.83	1.73	1.68
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16LC55A-04/P-ND★	2.95	1.82	1.76
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16LC55A-04/SO-ND★	3.08	1.89	1.83
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C55A-20/P-ND★	3.15	1.95	1.89
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C55A-20/SO-ND★	3.28	2.02	1.96
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C55A-20/SP-ND★	3.15	1.95	1.89
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip	PIC16C55A-04I/P-ND★	3.10	1.91	1.85
512 x 12	25 x 8	OTP	20	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C55A-04I/SO-ND★	3.23	1.98	1.92
1K x 12	25 x 8	OTP	12	RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C56-RC/P-ND★	4.73	3.49	3.24
1K x 12	25 x 8	OTP	12	RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C56-RC/SO-ND★	4.85	3.57	3.32
1K x 12	25 x 8	OTP	12	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C56-XT/P-ND★	5.08	3.73	3.47
1K x 12	25 x 8	OTP	12	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C56-XT/SO-ND★	5.20	3.82	3.55
1K x 12	25 x 8	OTP	12	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C56-HS/P-ND★	5.80	4.27	3.97
1K x 12	25 x 8	OTP	12	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C56-HS/SO-ND★	5.95	4.38	4.07
1K x 12	25 x 8	OTP	12	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C56-LP/P-ND★	4.98	3.66	3.40
1K x 12	25 x 8	OTP	12	RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C56-RCI/P-ND★	5.20	3.83	3.56
1K x 12	25 x 8	OTP	12	Xtal	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C56-XTI/P-ND★	5.58	4.10	3.81
1K x 12	25 x 8	OTP	12	Xtal	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C56-HSI/P-ND★	6.38	4.70	4.36
1K x 12	25 x 8	EPROM	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C56A/JW-ND	9.09	—	7.95
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C56A-04/P-ND★	2.60	1.60	1.55
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C56A-04/SO-ND★	2.65	1.63	1.58
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C56A-20/P-ND★	2.78	1.71	1.66
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C56A-20/SO-ND★	2.83	1.74	1.69
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC56A-04/P-ND★	2.73	1.68	1.63
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC56A-04/SO-ND★	2.78	1.71	1.66
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C56A-04I/P-ND★	2.85	1.76	1.70
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C56A-04I/SO-ND★	2.90	1.79	1.74
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C56A-20I/P-ND★	3.05	1.88	1.82
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C56A-20I/SO-ND★	3.13	1.92	1.86
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16LC56A-04I/P-ND★	3.00	1.84	1.79
1K x 12	25 x 8	OTP	12	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16LC56A-04I/SO-ND★	3.05	1.88	1.82
2K x 12	72 x 8	OTP	20	RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C57-RC/P-ND★	5.78	4.25	3.95
2K x 12	72 x 8	OTP	20	RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C57-RC/SO-ND★	6.00	4.42	4.11
2K x 12	72 x 8	OTP	20	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C57-XT/P-ND★	6.18	4.55	4.22
2K x 12	72 x 8	OTP	20	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C57-XT/SO-ND★	6.43	4.73	4.39
2K x 12	72 x 8	OTP	20	Xtal	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C57-XT/SP-ND★	6.18	4.55	4.22
2K x 12	72 x 8	OTP	20	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C57-HS/P-ND★	7.08	5.20	4.84
2K x 12	72 x 8	OTP	20	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C57-HS/SO-ND★	7.35	5.41	5.03
2K x 12	72 x 8	OTP	20	Xtal	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C57-HS/SP-ND★	7.08	5.20	4.84
2K x 12	72 x 8	OTP	20	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C57-LP/P-ND★	6.05	4.46	4.15
2K x 12	72 x 8	OTP	20	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C57-LP/SO-ND★	6.30	4.64	4.31
2K x 12	72 x 8	OTP	20	Xtal	DC-40KHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C57-LP/SP-ND★	6.05	4.46	4.15
2K x 12	72 x 8	OTP	20	Xtal	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip	PIC16C57-HSI/P-ND★	7.78	5.72	5.32
2K x 12	72 x 8	OTP	20	Xtal	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C57-HSI/SO-ND★	8.10	5.95	5.53
2K x 12	72 x 8	OTP	20	RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip	PIC16C57-RCI/P-ND★	6.35	4.67	4.34
2K x 12	72 x 8	OTP	20	Xtal	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip	PIC16C57-XTI/P-ND★	6.80	5.00	4.65
2K x 12	72 x 8	OTP	20	Xtal	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C57-XTI/SO-ND★	7.08	5.20	4.83
2K x 12	72 x 8	EPROM	20	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip	PIC16C57C/JW-ND	10.48	—	9.16
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C57C-04/P-ND★	3.28	2.02	1.96
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C57C-04/SO-ND★	3.43	2.10	2.04
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C57C-04/SP-ND★	3.28	2.02	1.96
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16LC57C-04/P-ND★	3.45	2.12	2.06
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16LC57C-04/SO-ND★	3.58	2.21	2.14
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip	PIC16C57C-20/P-ND★	3.68	2.27	2.20
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C57C-20/SO-ND★	3.83	2.36	2.29
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C57C-20/SP-ND★	3.68	2.27	2.20
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip	PIC16C57C-04I/P-ND★	3.60	2.23	2.16
2K x 12	72 x 8	OTP	20	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C57C-04I/SO-ND★	3.75	2.31	2.24
2K x 12	73 x 8	EPROM	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C58B/JW-ND	10.29	—	9.00
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C58B-04/P-ND★	2.75	1.70	1.65
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C58B-04/SO-ND★	2.80	1.73	1.68
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C58B-04/SS-ND★	3.03	1.87	1.81
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C58B-20/P-ND★	2.95	1.82	1.76
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C58B-20/SO-ND★	3.00	1.85	1.80
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C58B-20/SS-ND★	3.25	2.00	1.94
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C58B-20I/P-ND★	3.25	2.00	1.94
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C58B-20I/SO-ND★	3.30	2.04	1.98
2K x 12	73 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-SSOP	PIC16C58B-20I/SS-ND★	3.55	2.19	2.12
2K X 12	73 x 8	OTP	12	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC58B-04/P-ND★	2.90	1.78	1.73

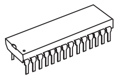
† Low Power oscillation 200KHz Max.

★ *Digi-Key now offers a programming service using customer supplied Master IC and software disk for Microchips PIC family. The following formats are supported by our programming center: BIN16 — 16-bit binary format (default for PGM16/TASM16), INHXM8 — Merged 8-bit Intel™ Hex (Parallax) format, INHXS8 — Split 8-bit Intel™ Hex format, INHX16 — 16-bit Intel™ Hex format. For further information and price quotes, please call 1-800-344-4539, and request the programming center.*

8-Bit RISC Microcontrollers

PIC16C6X Series





General Description:

The PIC16C6X is a family of low-cost, high-performance, CMOS, full-static 8-bit microcontrollers.

"A" Version parts have an additional brown-out detect circuit.

(Use Programmer PICSTART Plus)

All PIC16/17 microcontrollers employ an advanced RISC-like architecture. The PIC16CXX has enhanced core features, eight-level deep stack, and multiple internal and external interrupt sources. The separate instruction and data buses of the Harvard architecture allow a 14-bit wide instruction word with the separate 8-bit wide data. The two stage instruction pipeline allows all instructions to execute in a single cycle, except for program branches (which require two cycles). A total of 35 instructions (reduced instruction set) are available. Additionally, a large register set gives some of the architectural innovations used to achieve a very high performance.

PIC16C6X Microcontroller Core Features:

- High-Performance RISC CPU
- Only 35 single word instructions to learn
- All single cycle instructions except for program branches which are two-cycle
- Operating speed: DC - 20MHz clock input, DC - 200ns instruction cycle
- Interrupt capability
- Eight level deep hardware stack
- Direct, indirect and relative addressing modes
- Power-on Reset (POR)
- Power-up Timer (PWRT) and Oscillator Start-up Timer (OST)
- Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation
- Programmable code-protection
- Power saving SLEEP mode
- Selectable oscillator options
- Low-power, high-speed CMOS EPROM/ROM technology
- Fully static design
- Wide operating voltage range: 2.5V to 6.0V
- Commercial, Industrial and Extended temperature ranges
- Lower power consumption: < 2mA @ 5V, 4MHz; 15µA typical @ 3V, 32kHz; <1µA typical standby current

PIC16C6X Peripheral Features:

- Timer0: 8-bit timer/counter with 8-bit prescaler
- Timer1: 16-bit timer/counter with prescaler, can be incremented during sleep via external crystal/clock
- Timer2: 8-bit timer/counter with 8-bit period register, prescaler and postscaler
- Capture/Compare/PWM (CCP) module(s)
- Capture is 16-bit, max resolution 12.5ns , Compare is 16-bit, max resolution is 200ns, PWM max resolution is 10-bit
- Synchronous Serial Port (SSP) with SPI™ and I²C™
- Universal Synchronous Asynchronous Receiver Transmitter (USART/SCI)
- Parallel Slave Port (PSP) 8-bits wide, with external RD, WR and CS controls
- Brown-out detection circuitry for Brown-out Reset (BOR)

DS00092D-ND	Embedded Control Handbook, Volume 1	**$9.95**
DS00711-ND	Embedded Control Handbook, Update 2000	**$5.00**
DS00161-ND	CD-ROM Microchip Technical Library	**$2.25**

Memory Size									**Price Each**		
EPROM	**RAM**	**Configuration**	**I/O Lines**	**Oscillator Type External**	**Frequency Range Min./Max.**	**Operating Temperature Range**	**Pkg.**	**Digi-Key Part No.**	**1**	**25**	**100**
1K x 14	128 x 16	OTP	16	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-Dip	PIC16C781-I/P-ND *NEW!*	5.53	3.16	2.93
1K x 14	128 x 16	OTP	16	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-SOIC	PIC16C781-I/SO-ND *NEW!*	5.65	3.22	2.99
1K x 14	128 x 16	OTP	16	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-SSOP	PIC16C781-I/SS-ND *NEW!*	6.18	3.53	3.27
1K x 14	128 x 16	OTP	16	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-Dip	PIC16LC781-I/P-ND *NEW!*	5.78	3.31	3.07
1K x 14	128 x 16	OTP	16	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-SOIC	PIC16LC781-I/SO-ND *NEW!*	5.93	3.38	3.14
1K x 14	128 x 16	OTP	16	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-SSOP	PIC16LC781-I/SS-ND *NEW!*	6.48	3.70	3.43
1K x 14	128 x 16	OTP	16	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	20-CDIP	PIC16C781/JW-ND *NEW!*	12.59	—	10.98
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16LC62A-04/SP-ND★	7.43	4.58	4.43
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-SOIC	PIC16LC62A-04/SO-ND★	7.43	4.58	4.43
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16LC62A-04I/SP-ND★	8.15	5.02	4.85
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-SOIC	PIC16LC62A-04I/SO-ND★	8.15	5.02	4.85
2K x 14	128 x 8	EPROM	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip	PIC16C62B/JW-ND	9.57	—	—
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C62B-04/SP-ND★	4.40	2.71	2.63
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SOIC	PIC16C62B-04/SO-ND★	4.40	2.71	2.63
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SSOP	PIC16C62B-04/SS-ND★	4.65	2.86	2.77
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C62B-20/SP-ND★	4.70	2.90	2.81
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-SOIC	PIC16C62B-20/SO-ND★	4.70	2.90	2.81
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-SSOP	PIC16C62B-20/SS-ND★	4.95	3.05	2.96
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16LC62B-04/SP-ND★	4.63	2.85	2.76
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SOIC	PIC16LC62B-04/SO-ND★	4.63	2.85	2.76
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C62B-04I/SP-ND★	4.85	2.98	2.89
2K x 14	128 x 8	OTP	22	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C62B-20I/SP-ND★	5.18	3.19	3.09
4K x 14	192 x 8	EPROM	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip .3"	PIC16C63/JW-ND	13.49	—	13.05
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C63-04/SP-ND★	8.50	5.23	5.06
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SOIC	PIC16C63-04/SO-ND★	8.50	5.23	5.06
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C63-10/SP-ND★	9.10	5.60	5.42
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-SOIC	PIC16C63-10/SO-ND★	9.10	5.60	5.42
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C63-20/SP-ND★	9.10	5.60	5.42
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-SOIC	PIC16C63-20/SO-ND★	9.10	5.60	5.42
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C63-04I/SP-ND★	9.35	5.76	5.57
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-SOIC	PIC16C63-04I/SO-ND★	9.35	5.76	5.57
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C63-20I/SP-ND★	10.05	6.19	5.99
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-SOIC	PIC16C63-20I/SO-ND★	10.05	6.19	5.99
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16LC63-04I/SP-ND★	9.78	6.03	5.83
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-SOIC	PIC16LC63-04I/SO-ND★	9.78	6.03	5.83
4K x 14	192 x 8	EPROM	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip .3"	PIC16C63A/JW-ND	9.18	—	—
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C63A-04/SP-ND★	5.38	3.31	3.20
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SOIC	PIC16C63A-04/SO-ND★	5.38	3.31	3.20
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SSOP	PIC16C63A-04/SS-ND★	5.63	3.47	3.36
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C63A-04I/SP-ND★	5.93	3.65	3.54
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-SOIC	PIC16C63A-04I/SO-ND★	5.93	3.65	3.54
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-SSOP	PIC16C63A-04I/SS-ND★	6.20	3.82	3.70
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C63A-20/SP-ND★	5.78	3.56	3.45
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-SOIC	PIC16C63A-20/SO-ND★	5.78	3.56	3.45
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-SSOP	PIC16C63A-20/SS-ND★	6.03	3.72	3.61
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C63A-20I/SP-ND★	6.35	3.91	3.79
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-SOIC	PIC16C63A-20I/SO-ND★	6.35	3.91	3.79
4K x 14	192 x 8	OTP	22	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-SSOP	PIC16C63A-20I/SS-ND★	6.63	4.08	3.95
2K x 14	128 x 8	EPROM	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC16C64A/JW-ND	12.56	—	12.15
2K x 14	128 x 8	OTP	33	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C64A-04/P-ND★	7.93	4.89	4.73
2K x 14	128 x 8	OTP	33	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C64A-04/L-ND★	8.58	6.26	6.06
2K x 14	128 x 8	OTP	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C64A-20/P-ND★	8.50	5.23	5.06
2K x 14	128 x 8	OTP	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C64A-20/L-ND★	9.15	6.97	6.75
2K x 14	128 x 8	OTP	33	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	40-Dip	PIC16LC64A-04/P-ND★	8.33	5.13	4.97
2K x 14	128 x 8	OTP	33	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	44-PLCC	PIC16LC64A-04/L-ND★	8.98	6.85	6.63
2K x 14	128 x 8	OTP	33	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C64A-04I/P-ND★	8.73	5.38	5.20
2K x 14	128 x 8	OTP	33	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C64A-20I/L-ND★	10.00	7.48	7.24

(Continued)

Memory Size		Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
4K x 14	192 x 8	EPROM	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC16C65A/JW-ND	14.02	—	13.60
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C65A-04/P-ND★	10.60	6.53	6.32
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C65A-10/P-ND★	11.35	6.99	6.76
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C65A-10/L-ND★	13.05	10.30	9.97
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C65A-20/P-ND★	11.35	6.99	6.76
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C65A-20/L-ND★	13.05	10.30	9.97
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	40-Dip	PIC16LC65A-04/P-ND★	11.13	6.86	6.64
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	44-PLCC	PIC16LC65A-04/L-ND★	12.85	10.17	9.84
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C65A-04I/P-ND★	11.68	7.18	6.95
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C65A-04I/L-ND★	13.40	10.53	10.19
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C65A-20I/P-ND★	12.48	7.69	7.44
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C65A-20I/L-ND★	14.20	11.01	10.65
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16LC65A-04I/L-ND★	13.90	10.83	10.48
4K x 14	192 x 8	EPROM	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC16C65B/JW-ND	10.09	—	—
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C65B-04/P-ND★	6.03	3.71	3.59
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C65B-04/L-ND★	7.00	5.71	5.53
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C65B-20/P-ND★	6.45	3.97	3.85
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C65B-20/L-ND★	7.43	5.96	5.77
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	44-PLCC	PIC16LC65B-04/L-ND★	7.30	5.89	5.71
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C65B-04I/P-ND★	6.65	4.10	3.98
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C65B-20I/P-ND★	7.10	4.38	4.24
4K x 14	192 x 8	OTP	33	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C65B-20I/L-ND★	8.08	6.36	6.16
8K x 14	368	EPROM	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip .3"	PIC16C66/JW-ND	13.89	—	13.53
8K x 14	368	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C66-04/SP-ND★	7.83	4.83	4.68
8K x 14	368	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C66-04/SO-ND★	7.83	4.83	4.68
8K x 14	368	OTP	22	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C66-10/SP-ND★	8.38	5.16	5.00
8K x 14	368	OTP	22	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C66-10/SO-ND★	8.38	5.16	5.00
8K x 14	368	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C66-20/SP-ND★	8.38	5.16	5.00
8K x 14	368	OTP	22	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C66-20/SO-ND★	8.38	5.16	5.00
8K x 14	368	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16LC66-04/SP-ND★	8.23	5.07	4.91
8K x 14	368	OTP	22	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16LC66-04/SO-ND★	8.23	5.07	4.91
8K x 14	368	OTP	22	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C66-04I/SP-ND★	8.63	5.31	5.14
8K x 14	368	OTP	22	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C66-20I/SP-ND★	9.23	5.68	5.50
8K x 14	368	OTP	22	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C66-20I/SO-ND★	9.23	5.68	5.50
8K x 14	368	EPROM	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC16C67/JW-ND	13.80	—	13.44
8K x 14	368	OTP	33	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C67-04/P-ND★	8.55	5.26	5.10
8K x 14	368	OTP	33	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C67-10/P-ND★	9.15	5.63	5.46
8K x 14	368	OTP	33	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C67-10/L-ND★	9.68	6.79	6.58
8K x 14	368	OTP	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C67-20/P-ND★	9.15	5.63	5.46
8K x 14	368	OTP	33	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C67-20/L-ND★	9.68	6.79	6.58
8K x 14	368	OTP	33	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C67-04I/P-ND★	9.40	5.79	5.61
8K x 14	368	OTP	33	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C67-20I/P-ND★	10.05	6.20	6.00
8K x 14	368	OTP	33	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C67-20I/L-ND★	10.55	7.33	7.10

† Low Power oscillation 200KHz Max.

★ *Digi-Key now offers a programming service using customer supplied Master IC and software disk for Microchips PIC family. The following formats are supported by our programming center: BIN16 — 16-bit binary format (default for PGM16/TASM16), INHXM8 — Merged 8-bit Intel™ Hex (Parallax) format, INHXS8 — Split 8-bit Intel™ Hex format, INHX16 — 16-bit Intel™ Hex format. For further information and price quotes, please call 1-800-344-4539, and request the programming center.*

MICROCHIP

8-Bit CMOS Microcontroller with LCD Driver

PIC16C92X

(Use Programmer PICSTART Plus and AC164024-ND)

General Description:

The PIC16C9XX is a family of low-cost, high-performance, CMOS, fully-static, 8-bit microcontrollers with an integrated LCD Driver module, in the PIC16CXX mid-range family.

The **PIC16C923** devices have 176 bytes of RAM, 25 I/O pins, and 25-27 input only. In addition several peripheral features are available including: three timer/ counters, one Capture/Compare/ PWM module, one serial port and one LCD module. The Synchronous Serial Port can be configured as either a 3-wire Serial Peripheral Interface (SPI) or the two-wire Inter-Integrated Circuit (I²C) bus. The LCD module features programmable multiplex mode (static, 1/2, 1/3 and 1/4) and drive bias (static and 1/3). It is capable of driving up to 32 segments and up to 4 commons. It can also drive the LCD panel while in SLEEP mode.

The **PIC16C924** devices have 176 bytes of RAM, 25 I/O pins, and 25-27 input only. In addition several peripheral features are available including: three timer/counters, one Capture/Compare/ PWM module, one serial port and one LCD module. The Synchronous Serial Port can be configured as either a 3-wire Serial Peripheral Interface (SPI) or the two-wire Inter-Integrated Circuit (I²C) bus. The LCD module features programmable multiplex mode (static, 1/2, 1/3 and 1/4) and drive bias (static and 1/3). It is capable of driving up to 32 segments and up to 4 commons. It can also drive the LCD panel while in SLEEP mode. The PIC16C924 also has a 5-channel high-speed 8-bit A/D. The 8-bit resolution is ideally suited for applications requiring low-cost analog interface, e.g., thermostat control, pressure sensing, and meters.

Microcontroller Core Features:

• High performance RISC CPU • Only 35 single word instructions to learn • 4K x 14 on-chip EPROM program memory • 176 x 8 general purpose registers (SRAM) • 57 special function registers (60 for PIC16C924) • All single cycle instructions (500 ns) except for program branches which are two-cycle • Operating speed: DC - 8Mhz clock input; DC - 500ns instruction cycle • Interrupt capability • Eight level deep hardware stack • Direct, indirect and relative addressing modes

Peripheral Features:

• 25 I/O pins with individual direction control • 25-27 input only pins • Timer0: 8-bit timer/counter with 8-bit prescaler • Timer1: 16-bit timer/counter. Timer1 can be incremented during sleep via external crystal/clock • Timer2: 8-bit timer/counter with 8-bit period register, prescaler and postscaler

• One pin that can be configured a capture input, PWM output, or compare output:

• Capture is 16-bit, max. resolution 31.25ns • Compare is 16-bit, max. resolution 500ns • PWM resolution is 1- to 10-bits. Maximum PWM frequency @ 8-bit resolution = 32kHz, @ 10-bit resolution = 8kHz

• Programmable LCD timing module:

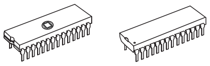
• Multiple LCD timing sources available • Can drive LCD panel while in Sleep mode • Static, 1/2, 1/3, 1/4 multiplex • Static drive and 1/3 bias capability • 16 bytes of dedicated LCD RAM • Up to 32 segments, up to 4 commons • Synchronous Serial Port (SSP) with SPI™ and I²C™ • 8-bit multichannel Analog to Digital converter (PIC16C924 only)

DS00161-ND CD-ROM Microchip Technical Library **$2.25**

Memory Size		Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Package	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
4K x 14	176 x 8	EPROM	50-52 (5-Ch., 8-Bit A/D)	Xtal/RC	DC - 8MHz	32° to 158°F (0° to 70°C)	68CERQUAD	PIC16C924/CL-ND	25.97	—	25.29
4K x 14	176 x 8	OTP	50-52 (5-Ch., 8-Bit A/D)	Xtal/RC	DC - 4MHz		68PLCC	PIC16C924-04/L-ND	7.08	5.05	4.89
4K x 14	176 x 8	OTP	50-52 (5-Ch., 8-Bit A/D)	Xtal/RC	DC - 4MHz		68PLCC	PIC16LC924-04/L-ND	7.43	5.29	5.12
4K x 14	176 x 8	OTP	50-52	Xtal/RC	DC - 4MHz		68PLCC	PIC16C923-04/L-ND	6.30	4.54	4.39
4K x 14	176 x 8	OTP	50-52	Xtal/RC	DC - 4MHz		68PLCC	PIC16LC923-04/L-ND	6.63	4.75	4.60

8-Bit RISC Microcontrollers

PIC16C62X / 16CE62X (EEPROM – Memory)



PIC16C62X
(Use Programmer PICSTART Plus or MP-PROG-ND)

General Description: The PIC16C62X are 18-pin EPROM-based members of the versatile PIC16CXX family of low-cost, high-performance, CMOS, fully-static, 8-bit microcontrollers. The PIC16C620 and PIC16C621 have 80 bytes of RAM. The PIC16C622 has 128 bytes of RAM. Each device has 13 I/O pins and an 8-bit timer/counter with an 8-bit programmable prescaler. In addition, the PIC16C62X add two analog comparators with a programmable on-chip voltage reference module. The comparator module is ideally suited for applications requiring a low-cost analog interface, e.g., battery chargers, threshold detectors, white goods controllers etc.

Features: High-Performance RISC-like CPU: • Only 35 single word instructions to learn • All single cycle instructions (200ns), except for program branches which are two-cycle • Operating speed: DC - 20MHz clock input, DC - 200ns instruction cycle • Interrupt capability • 16 special function hardware registers • 8 level deep hardware stack • Direct, Indirect and relative addressing modes.

Peripheral Features: • 13 I/O pins with individual direction control • 25mA sink/source per I/O for direct LED drive • Analog comparator module with: 2 analog comparators, Programmable on-chip voltage reference (VREF) module, Programmable input multiplexing form device inputs and internal voltage reference, Comparator outputs can be output signals • TMR0: 8-bit timer/counter with 8-bit programmable prescaler

Special Microcontroller Features: • Power-on-reset (POR) • Power-up Timer (PWRT) and Oscillator start-up timer (OST) • Brown-out protection • Watchdog timer (WDT) with its own on-chip RC oscillator for reliable operation • Programmable code protection • Power saving SLEEP mode • Fuse selectable oscillator options • Serial in-system programming (via two pins) • 4 user programmable ID locations

CMOS Technology: • Low-power, high-speed CMOS EPROM technology • Fully static design • Wide operating voltage range - 3.0V to 6.0V • Commercial and industrial temperature range • Low power consumption - < 2mA @ 5v, 4Mhz; 15µA typical @ 3V, 32KHz; < 1µA typical standby current @ 3V

DS00092D-ND	Embedded Control Handbook, Volume 1	**$9.95**
DS00711-ND	Embedded Control Handbook, Update 2000	**$5.00**
DS00161-ND	CD-ROM Microchip Technical Library	**$2.25**

Memory Size		Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
Program	RAM								1	25	100
512 x 14	80 x 8	EPROM❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C620/JW-ND	8.51	—	7.44
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C620-04/P-ND★	4.35	3.65	2.95
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C620-04/SO-ND★	4.43	3.72	3.01
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C620-20/P-ND★	4.65	3.90	3.16
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C620-20/SO-ND★	4.73	3.98	3.22
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC620-04/P-ND★	4.55	3.83	3.10
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC620-04/SO-ND★	4.65	3.90	3.16
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C620-04I/P-ND★	4.78	4.01	3.25
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C620-04I/SO-ND★	4.88	4.09	3.31
1K x 14	80 x 8	EPROM❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C621/JW-ND	9.27	—	8.10
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C621-04/P-ND★	4.90	4.12	3.34
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C621-04/SO-ND★	5.00	4.21	3.41
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C621-20/P-ND★	5.25	4.41	3.57
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C621-20/SO-ND★	5.35	4.50	3.64
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC621-04/P-ND★	5.15	4.33	3.51
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC621-04/SO-ND★	5.25	4.42	3.58
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C621-04I/P-ND★	5.40	4.54	3.67
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C621-20I/SO-ND★	5.90	4.95	4.01
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16LC621-04I/P-ND★	5.68	4.76	3.86
2K x 14	128 x 8	EPROM❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C622/JW-ND	10.14	—	8.86
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C622-04/P-ND★	5.63	4.72	3.82
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C622-04/SO-ND★	5.73	4.82	3.90
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C622-04/SS-ND	6.18	5.20	4.21
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C622-20/P-ND★	6.03	5.05	4.09
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C622-20/SO-ND★	6.13	5.16	4.17
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C622-20/SS-ND	6.63	5.56	4.50
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC622-04/P-ND★	5.90	4.96	4.02
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC622-04/SO-ND★	6.03	5.06	4.10
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	20-SSOP	PIC16LC622-04/SS-ND	6.50	5.46	4.42
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C622-04I/P-ND★	6.18	5.20	4.21
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C622-04I/SO-ND★	6.30	5.30	4.29
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C622-20I/P-ND★	6.63	5.56	4.50
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C622-20I/SO-ND★	6.75	5.67	4.59
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16LC622-04I/P-ND★	6.50	5.46	4.42
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16LC622-04I/SO-ND★	6.63	5.57	4.51
512 X 14	80 x 8	EPROM❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C620A/JW-ND	7.53	—	6.58
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C620A-04/P-ND★	2.25	1.39	1.35
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C620A-04/SO-ND★	2.30	1.42	1.37
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C620A-20/P-ND★	2.40	1.49	1.44
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C620A-20/SO-ND★	2.45	1.52	1.47
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC620A-04/P-ND★	2.38	1.46	1.41
512 x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C620A-04I/P-ND★	2.25	1.39	1.35
1K x14	80 x 8	EPROM❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C621A/JW-ND	8.49	—	7.43
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C621A-04/P-ND★	2.53	1.56	1.51
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C621A-04/SO-ND★	2.58	1.59	1.54
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C621A-20/P-ND★	2.70	1.67	1.62
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C621A-20/SO-ND★	2.75	1.70	1.65
1K x 14	80 x 8	OTP❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C621A-04I/P-ND★	2.78	1.72	1.66
2K x 14	128 x 8	EPROM❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C622A/JW-ND	9.56	—	8.35
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C622A-04/P-ND★	2.85	1.75	1.70
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C622A-04/SO-ND★	2.90	1.79	1.73
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C622A-20/P-ND★	3.05	1.87	1.81
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C622A-20/SO-ND★	3.10	1.91	1.85
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC622A-04/P-ND★	3.88	2.39	2.32
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC622A-04/SO-ND★	3.98	2.46	2.38
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C622A-04I/P-ND★	3.13	1.93	1.87
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C622A-20I/P-ND★	3.35	2.06	2.00
2K x 14	128 x 8	OTP❖	13	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C622A-20I/SO-ND★	3.40	2.10	2.04
512 x 14	96 x 8	EPROM‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16CE623/JW-ND	8.94	—	7.81
512 x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16CE623-04/P-ND★	3.23	1.98	1.92
512 x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16CE623-04/SO-ND★	3.28	2.02	1.96
512 x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16CE623-20/P-ND★	3.45	2.12	2.06
512 x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16CE623-20/SO-ND★	3.53	2.17	2.10
512 x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16CE623-04I/P-ND★	3.55	2.18	2.11
512 x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16CE623-04I/SO-ND★	3.60	2.23	2.16
1K x 14	96 x 8	EPROM‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16CE624/JW-ND	9.73	—	8.51
1K x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16CE624-04/P-ND★	3.60	2.22	2.15
1K x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16CE624-04/SO-ND★	3.68	2.27	2.20
1K x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16CE624-20/P-ND★	3.85	2.38	2.30
1K x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16CE624-20/SO-ND★	3.93	2.42	2.35
1K x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16CE624-04I/P-ND★	3.98	2.44	2.37
1K x 14	96 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16CE624-04I/SO-ND★	4.05	2.49	2.42
2K x 14	128 x 8	EPROM‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16CE625/JW-ND	10.64	—	9.30
2K x 14	128 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16CE625-04/P-ND★	4.10	2.52	2.44
2K x 14	128 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16CE625-04/SO-ND★	4.18	2.57	2.49
2K x 14	128 x 8	OTP‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16CE625-20/P-ND★	4.38	2.70	2.62
2K x 14	128 x 8	OTP‡❖	13	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16CE625-20/SO-ND★	4.48	2.75	2.67
2K x 14	128 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16CE625-04I/P-ND★	4.50	2.78	2.69
2K x 14	128 x 8	OTP‡❖	13	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16CE625-04I/SO-ND★	4.60	2.83	2.74

❖ 2 Analog comparators, Programmable on Chip V Ref.

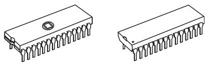
† Low Power oscillation 200KHz Max.

‡ 128 Byte EEPROM

★ *This part can be programmed by Digi-Key. For further information and price quotes, please call 1-800-344-4539, and request the programming center.*

8-Bit CMOS Microcontrollers with A/D Converter

PIC16C7X and PIC16C77X Series



PIC16C71X **Microcontroller Core Features:** • High-Performance RISC CPU • Only 35 single word instructions to learn • All single cycle instructions except for program branches which are two-cycle • Operating speed: DC - 20MHz clock input, DC - 200ns instruction cycle • Up to 2K x 14 words of Program Memory, up to 128 x 8 bytes of Data Memory (RAM) • Interrupt capability • Eight level deep hardware stack • Direct, indirect and relative addressing modes • Power-on Reset (POR) • Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Programmable code-protection • Power saving SLEEP mode • Selectable oscillator options • Low-power, high-speed CMOS EPROM technology • Fully static design • High Sink/Source Current 25/25mA • Commercial, Industrial and Extended Temperature Ranges • Program Memory Parity Error Checking Circuitry with Parity Error Reset (PER) (PIC16C715) • Low-power consumption: <2mA @ 5V, 4MHz; 15µA typical @ 3V, 32kHz; <1µA typical standby current

Peripheral Features: • Timer0: 8-bit timer/counter with 8-bit prescaler • 8-bit multichannel analog-to-digital converter • Brown-out detection circuitry for Brown-out Reset (BOR) • 13 I/O Pins with Individual Direction Control

PIC16C7X **Microcontroller Core Features:** • High-Performance RISC CPU • Only 35 single word instructions to learn • All single cycle instructions except for program branches which are two-cycle • Operating speed: DC - 20MHz clock input, DC - 200ns instruction cycle • Up to 8K x 14 words of Program Memory, up to 368 x 8 bytes of Data Memory (RAM) • Interrupt capability • Eight level deep hardware stack • Direct, indirect and relative addressing modes • Power-on Reset (POR) • Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Programmable code-protection • Power saving SLEEP mode • Selectable oscillator options • Low-power, high-speed CMOS EPROM technology • Fully static design • Wide operating voltage range: 2.5V to 6.0V • High Sink/Source Current 25/25mA • Commercial, industrial and extended temperature ranges • Program Memory Parity Error Checking Circuitry with Parity Error Reset (PER) (PIC16C715) • Low-power consumption: <2mA @ 5V, 4MHz; 15µA typical @ 3V, 32kHz; <1µA typical standby current

PIC16C7X Peripheral Features: • Timer0: 8-bit timer/counter with 8-bit prescaler • Timer1: 16-bit timer/counter with prescaler, can be incremented during sleep via external crystal/clock • Timer2: 8-bit timer/counter 8-bit period register, prescaler and postscaler • Capture, Compare, PWM module(s) • Capture is 16-bit, max resolution is 12.5 ns, Compare is 16-bit, max resolution is 200ns, PWM max. resolution is 10-bit • 8-bit multichannel analog-to-digital converter • Synchronous Serial Port (SSP) with SPI™ and I²C™ • Universal Synchronous Asynchronous Receiver Transmitter (USART/SCI) • Parallel, Slave Port (PSP) 8-bits wide, with external RD, WR and CS controls • Brown-out detection circuitry for Brown-out Reset (BOR)

PIC16C77X **Microcontroller Core Features:** • High-Performance RISC CPU • Only 35 single word instructions to learn • All single cycle instructions except for program branches which are two-cycle • Operating speed: DC - 20MHz clock input, DC - 200ns instruction cycle • 4K x 14 words of Program Memory, 256 x 8 bytes of Data Memory (RAM) • Interrupt capability (up to 14 internal/external interrupt sources) • Eight level deep hardware stack • Direct, indirect and relative addressing modes • Power-on Reset (POR) • Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Programmable code-protection • Power saving SLEEP mode • Selectable oscillator options • Low-power, high-speed CMOS EPROM technology • Fully static design • In-Circuit Serial Programming™ (ISCP) • Wide operating voltage range: 2.5V to 5.5V • High Sink/Source Current 25/25mA • Commercial and industrial temperature ranges • Low-power consumption: <2mA @ 5V, 4MHz; 22µA typical @ 3V, 32kHz; <1µA typical standby current

PIC16C77X Peripheral Features: • Timer0: 8-bit timer/counter with 8-bit prescaler • Timer1: 16-bit timer/counter with prescaler, can be incremented during sleep via external crystal/clock • Timer2: 8-bit timer/counter 8-bit period register, prescaler and postscaler • Two Capture, Compare, PWM module • Capture is 16-bit, max. resolution is 12.5 ns; Compare is 16-bit, max. resolution is 200 ns; PWM max. resolution is 10-bit • 12-bit multi-channel Analog-to-Digital converter • On-chip absolute bandgap voltage reference generator • Synchronous Serial Port (SSP) with SPI™ (Master Mode) and I²C™ • Universal Synchronous Asynchronous Receiver Transmitter, supports high/low speeds and 9-bit address mode (USART/SCI) • Parallel, Slave Port (PSP) 8-bits wide, with external Read, Write and Chip Select controls • Programmable Brown-out detection circuitry for Brown-out Reset (BOR) • Programmable Low-voltage detection circuitry

PIC16C745/765 **Microcontroller Core Features:** • High-performance RISC CPU • Only 35 single word instructions • All single cycle instructions except for program branches which are two cycle • Interrupt capability (up to 12 internal/external interrupt sources) • Eight level deep hardware stack • Direct, indirect and relative addressing modes • Power-on Reset (POR) • Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Brown-out detection circuitry for Brown-out Reset (BOR) • Programmable code-protection • Power saving SLEEP mode • Selectable oscillator options • EC: External clock (24MHz) • E4: External clock with PLL (6MHz) • HS: Crystal/Resonator (24MHz) • H4: Crystal/Resonator with PLL (6MHz) • Processor clock of 24MHz derived from 6MHz crystal or resonator • Fully static low-power, high-speed CMOS • In-Circuit Serial Programming (ICSP) • Operating voltage range: 4.35V to 5.25V • High Sink/Source Current 25/25 mA • Wide temperature range: Industrial (-40°C - 85°C) • Low-power consumption: <16mA @ 5V, 24MHz - 100A typical standby current

PIC16C745/765 Peripheral Features: • Universal Serial Bus (USB 1.1) - Soft attach/detach • 64 bytes of USB dual port RAM • 22 (PIC16C745) or 33 (PIC16C765) I/O pins; Individual direction control; 1 high voltage open drain (RA4); 8 PORTB pins with: Interrupt-on-change control (RB<7:4> only), Weak pull-up control, 3 pins dedicated to USB • Timer0: 8-bit timer/counter with 8-bit prescaler • Timer1: 16-bit timer/counter with prescaler can be incremented during SLEEP via external crystal/clock • Timer2: 8-bit timer/counter with 8-bit period register, prescaler and postscaler • Two Capture, Compare and PWM modules: Capture is 16-bit, max. resolution is 10.4 ns; Compare is 16-bit, max. resolution is 167 ns; PWM max. resolution is 10-bit • 8-bit multi-channel Analog-to-Digital converter • Universal Synchronous Asynchronous Receiver Transmitter (USART/SCI) • Parallel Slave Port (PSP) 8-bits wide, with external Read, Write and Chip Select controls (PIC16C765 only)

Key Features		PIC16C710	PIC16C71	PIC16C711	PIC16C712	PIC16C715	PIC16C716	PIC16C72A	PIC16C73B
Clock	Maximum Frequency of Operation (MHz)	20	20	20	20	20	20	20	20
Memory	EPROM Program Memory (x14 words)	512	1K	1K	1K	2K	2K	2K	4K
	Data Memory (bytes)	36	36	68	128	128	128	128	192
Peripherals	Timer Modules(s)	TMRO	TMRO	TMRO	TMRO,1,2	TMRO	TMRO,1,2	TMRO,1,2	TMRO,1,2
	Capture/Compare/ PWM Module(s)	— —	— —	— —	1 —	— —	1 —	1 —	2 —
	Serial Port(s) SPI/I^{2}C,USART)	— —	— —	— —	— —	— —	— —	SPI/I^{2}C —	SPI/I^{2}C USART
	A/D Converter (8-bit) Ch.	4	4	4	4	4	4	5	5
Features	Interrupt Sources	4	4	4	7	4	7	8	11
	I/O Pins	13	13	13	13	13	13	22	22
	Voltage Range (Volts)	2.5-6.0	3.0-6.0	2.5-6.0	2.5-5.5	2.5-5.5	2.5-5.5	2.5-5.5	2.5-5.5
	In-Circuit Serial Prog.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Brown-out Reset	Yes	—	Yes	Yes	Yes	Yes	Yes	Yes
	Packages	18-pin DIP, SOIC 20-pin SSOP	18-pin DIP SOIC	18-pin DIP, SOIC 20-pin SSOP	18-pin DIP, SOIC 20-pin SSOP	18-pin DIP, SOIC 20-pin SSOP	18-pin DIP, SOIC 20-pin SSOP	28-pin SDIP SOIC, SSOP	28-pin SDIP Soic

PIC16C77X Key Features	PIC16C773	PIC16C774
Operating Frequency	DC - 20MHz	
Resets (and Delays)	POR, BOR, MCLR, WDT (PWRT, OST)	
Program Memory (14-bit words)	4K	
Data Memory (bytes)	256	
Interrupts	13	14
I/O Ports	Ports A,B,C	Ports A,B,C,D,E
Timers	3	
Capture/Compare/ PWM Modules	2	
Serial Communications	MSSP, USART	
Parallel Communications	—	PSP
12-bit Analog-to-Digital Module	6 Input Channels	10 Input Channels
Instruction Set	35 Instructions	

9267B-ND Microchip PIC16C7X Family Data Book includes:
PIC16C72, PIC16C73A, PIC16C74A, PIC16C76, PIC16C77 ..... **$6.95**

Memory Size		Config-uration	I/O Lines	Oscillator Type Ext.	Freq. Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	**RAM**								**1**	**25**	**100**
512 x 14	36	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C710-04/P-ND★	3.85	2.20	2.04
512 x 14	36	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C710-04/SO-ND★	3.93	2.24	2.08
512 x 14	36	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C710-20/P-ND★	4.13	2.35	2.18
512 x 14	36	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C710-20/SO-ND★	4.20	2.40	2.23
512 x 14	36	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC710-04/P-ND★	4.05	2.31	2.14
512 x 14	36	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC710-04/SO-ND★	4.13	2.36	2.18
512 x 14	36	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	20-SSOP	PIC16LC710-04/SS-ND	4.53	2.59	2.40
512 x 14	36	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C710-04I/SO-ND★	4.33	2.47	2.29
1K x 14	36 x 8	EPROM	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C71/JW-ND	9.30	—	8.13
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C71-04/P-ND★	6.10	3.91	3.66
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C71-04/SO-ND★	6.23	3.98	3.74
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C71-20/P-ND★	6.53	4.18	3.92
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C71-20/SO-ND★	6.65	4.26	4.00
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC71-04/P-ND★	6.40	4.10	3.85
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC71-04/SO-ND★	6.53	4.18	3.92
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C71-04I/P-ND★	6.73	4.30	4.03
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C71-20I/P-ND★	7.18	4.60	4.31
1K x 14	36 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C71-20I/SO-ND★	7.33	4.69	4.40
1K x 14	68 x 8	EPROM	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C711/JW-ND★	10.03	—	8.77
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C711-04/P-ND★	4.20	2.40	2.23
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C711-04/SO-ND★	4.28	2.45	2.27
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C711-04/SS-ND	4.70	2.69	2.50
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C711-20/P-ND★	4.50	2.57	2.38
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C711-20/SO-ND★	4.58	2.62	2.43
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C711-20/SS-ND	5.05	2.88	2.67
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC711-04/P-ND★	4.40	2.52	2.34
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC711-04/SO-ND★	4.50	2.57	2.38
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	20-SSOP	PIC16LC711-04/SS-ND	4.95	2.83	2.62
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C711-04I/P-ND★	4.63	2.64	2.45
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C711-04I/SO-ND★	4.70	2.69	2.50
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C711-20I/P-ND★	4.95	2.82	2.62
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C711-20I/SO-ND★	5.05	2.88	2.67
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16LC711-04I/P-ND★	4.85	2.77	2.57
1K x 14	68 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16LC711-04I/SO-ND★	4.95	2.83	2.62
2K x 14	128	EPROM	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C715/JW-ND	11.91	—	10.39
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C715-04/P-ND★	4.73	2.70	2.50
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C715-04/SO-ND★	4.83	2.75	2.55

(Continued)

MICROCHIP 8-Bit CMOS Microcontrollers with A/D Converter, PIC16C7X and PIC16C77X *(Cont.)*

Memory Size		Config-uration	I/O Lines	Oscillator Type Ext.	Freq. Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C715-20/P-ND★	5.05	2.89	2.68
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C715-20/SO-ND★	5.15	2.95	2.73
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	20-SSOP	PIC16C715-20/SS-ND	5.65	3.23	3.00
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC715-04/P-ND★	4.95	2.83	2.62
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC715-04/SO-ND★	5.05	2.89	2.68
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	20-SSOP	PIC16LC715-04/SS-ND	5.55	3.17	2.94
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C715-04I/P-ND★	5.30	3.02	2.80
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C715-20I/P-ND★	5.68	3.24	3.00
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16LC715-04I/P-ND★	5.55	3.18	2.94
2K x 14	128	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16LC715-04I/SO-ND★	5.68	3.24	3.00
2K x 14	128 x 8	EPROM	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-CDip	PIC16C716/JW-ND	9.20	—	8.02
2K x 14	128 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C716-04/P-ND★	3.80	2.16	2.01
2K x 14	128 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C716-04/SO-ND★	3.88	2.21	2.05
2K x 14	128 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16C716-20/P-ND★	4.05	2.32	2.15
2K x 14	128 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16C716-20/SO-ND★	4.13	2.36	2.19
2K x 14	128 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Dip	PIC16LC716-04/P-ND★	3.98	2.27	2.10
2K x 14	128 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	18-Soic	PIC16LC716-04/SO-ND★	4.05	2.32	2.15
2K x 14	128 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C716-04I/P-ND★	4.18	2.38	2.21
2K x 14	128 x 8	OTP	13 (4-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C716-04I/SO-ND★	4.25	2.43	2.25
2K x 14	128 x 8	OTP	13 (4-Ch., 8 Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C716-20I/P-ND★	4.45	2.55	2.36
2K x 14	128 x 8	OTP	13 (4-Ch., 8 Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	18-Soic	PIC16C716-20I/SO-ND★	4.53	2.59	2.40
2K x 14	128 x 8	EPROM	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip .3”	PIC16C72/JW-ND	14.05	—	13.59
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C72-04/SO-ND★	7.68	4.72	4.57
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SSOP	PIC16C72-04/SS-ND★	8.25	5.08	4.91
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-Dip .3”	PIC16C72-10/SP-ND★	8.08	4.98	4.81
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C72-10/SO-ND★	8.20	5.05	4.89
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C72-20/SO-ND★	8.20	5.05	4.89
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-Dip .3”	PIC16LC72-04/SP-ND★	7.93	4.88	4.72
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-Soic	PIC16LC72-04/SO-ND★	8.05	4.97	4.81
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-SSOP	PIC16LC72-04/SS-ND★	8.63	5.32	5.15
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16C72-04I/SP-ND★	8.30	5.12	4.95
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C72-04I/SO-ND★	8.43	5.19	5.02
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16C72-20I/SP-ND★	8.88	5.47	5.30
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C72-20I/SO-ND★	9.03	5.56	5.38
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16LC72-04I/SP-ND★	8.70	5.36	5.18
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16LC72-04I/SO-ND★	8.83	5.44	5.26
2K x 14	128 x 8	EPROM	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip .3”	PIC16C72A/JW-ND	9.77	—	—
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C72A-04/SP-ND★	5.23	3.22	3.12
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C72A-04/SO-ND★	5.23	3.22	3.12
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C72A-20/SP-ND★	5.58	3.44	3.34
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C72A-20/SO-ND★	5.58	3.44	3.34
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16LC72A-04/SP-ND★	5.48	3.38	3.28
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SSOP	PIC16LC72A-04/SS-ND★	5.78	3.56	3.45
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C72A-04I/SP-ND★	5.78	3.56	3.45
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C72A-04I/SO-ND★	5.78	3.56	3.45
2K x 14	128 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C72A-20I/SP-ND★	6.15	3.79	3.67
4K x 14	192 x 8	EPROM	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip .3”	PIC16C73A/JW-ND	13.88	—	13.47
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3”	PIC16C73A-04/SP-ND★	9.30	5.73	5.54
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C73A-04/SO-ND★	9.30	5.73	5.54
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-Dip .3”	PIC16C73A-10/SP-ND★	9.95	6.13	5.93
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C73A-10/SO-ND★	9.95	6.13	5.93
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3”	PIC16C73A-20/SP-ND★	9.95	6.13	5.93
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C73A-20/SO-ND★	9.95	6.13	5.93
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-Dip .3”	PIC16LC73A-04/SP-ND★	9.73	5.99	5.79
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-Soic	PIC16LC73A-04/SO-ND★	9.73	5.99	5.79
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16C73A-04I/SP-ND★	10.23	6.30	6.09
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C73A-04I/SO-ND★	10.23	6.30	6.09
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16C73A-10I/SP-ND★	10.95	6.74	6.52
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C73A-10I/SO-ND★	10.95	6.74	6.52
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16C73A-20I/SP-ND★	10.95	6.74	6.52
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C73A-20I/SO-ND★	10.95	6.74	6.52
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16LC73A-04I/SP-ND★	10.65	6.57	6.35
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16LC73A-04I/SO-ND★	10.65	6.57	6.35
4K x 14	192 x 8	EPROM	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip .3”	PIC16C73B/JW-ND	9.87	—	—
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3”	PIC16C73B-04/SP-ND★	6.75	4.16	4.03
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C73B-04/SO-ND★	6.75	4.16	4.03
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-SSOP	PIC16C73B-04/SS-ND★	7.00	4.31	4.18
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3”	PIC16C73B-20/SP-ND★	7.23	4.45	4.32
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C73B-20/SO-ND★	7.23	4.45	4.32
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-SSOP	PIC16C73B-20/SS-ND★	7.50	4.62	4.47
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16C73B-04I/SP-ND★	7.43	4.58	4.44
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C73B-04I/SO-ND★	7.43	4.58	4.44
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-SSOP	PIC16C73B-04I/SS-ND	7.70	4.74	4.59
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3”	PIC16C73B-20I/SP-ND★	7.95	4.90	4.75
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C73B-20I/SO-ND★	7.95	4.90	4.75
4K x 14	192 x 8	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-SSOP	PIC16C73B-20I/SS-ND★	8.20	5.05	4.89
4K x 14	192 x 8	EPROM	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC16C74A/JW-ND	14.59	—	14.15
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C74A-04/P-ND★	11.25	6.93	6.71
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C74A-04/L-ND★	11.93	8.33	8.06
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC -10MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C74A-10/P-ND★	12.05	7.42	7.18
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC -10MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C74A-10/L-ND★	12.73	8.81	8.53
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C74A-20/P-ND★	12.05	7.42	7.18
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C74A-20/L-ND★	12.73	8.81	8.53
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	40-Dip	PIC16LC74A-04/P-ND★	11.83	7.28	7.04
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	44-PLCC	PIC16LC74A-04/L-ND★	12.50	8.69	8.41
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C74A-04I/P-ND★	12.38	7.63	7.38
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C74A-04I/L-ND★	13.03	9.01	8.72
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC -10MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C74A-10I/L-ND★	13.90	9.54	9.23
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C74A-20I/L-ND★	13.90	9.54	9.23
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16LC74A-04I/L-ND★	13.63	9.37	9.07
4K x 14	192 x 8	EPROM	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC16C74B/JW-ND	11.20	—	—
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C74B-04/P-ND★	8.20	5.06	4.90
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C74B-04/L-ND★	9.18	7.04	6.82
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C74B-04I/P-ND★	9.03	5.56	5.39
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C74B-04I/L-ND★	10.00	7.54	7.31
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C74B-20/P-ND★	8.78	5.41	5.24
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C74B-20/L-ND★	9.75	7.39	7.16
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C74B-20I/P-ND★	9.63	5.93	5.75
4K x 14	192 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C74B-20I/L-ND★	10.60	7.93	7.68

(Continued)

MICROCHIP 8-Bit CMOS Microcontrollers with A/D Converter, PIC16C7X and PIC16C77X *(Cont.)*

Memory Size		Config-uration	I/O Lines	Oscillator Type Ext.	Freq. Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
8K x 14	368	EPROM	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip .3"	PIC16C76/JW-ND	14.34	—	13.97
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C76-04/SP-ND★	8.55	5.26	5.10
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C76-04/SO-ND★	8.55	5.26	5.10
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C76-10/SP-ND★	9.15	5.63	5.46
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C76-20/SP-ND★	9.15	5.63	5.46
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C76-20/SO-ND★	9.15	5.63	5.46
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16LC76-04/SP-ND★	8.98	5.53	5.36
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	28-Soic	PIC16LC76-04/SO-ND★	8.98	5.53	5.36
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C76-04I/SP-ND★	9.40	5.79	5.61
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C76-04I/SO-ND★	9.40	5.79	5.61
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C76-10I/SP-ND★	10.05	6.20	6.00
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C76-10I/SO-ND★	10.05	6.20	6.00
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C76-20I/SP-ND★	10.05	6.20	6.00
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C76-20I/SO-ND★	10.05	6.20	6.00
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16LC76-04I/SP-ND★	9.83	6.05	5.86
8K x 14	368	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16LC76-04I/SO-ND★	9.83	6.05	5.86
8K x 14	368	EPROM	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC16C77/JW-ND	14.23	—	13.85
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C77-04/P-ND★	9.18	5.66	5.48
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C77-04/L-ND★	9.65	6.77	6.56
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C77-10/P-ND★	9.83	6.06	5.87
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C77-10/L-ND★	10.33	7.17	6.95
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C77-20/P-ND★	9.83	6.06	5.87
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C77-20/L-ND★	10.33	7.17	6.95
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	32° to 158°F (0° to 70°C)	44-PLCC	PIC16LC77-04/L-ND★	10.13	7.04	6.82
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C77-04I/P-ND★	10.10	6.23	6.03
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C77-04I/L-ND★	10.60	7.36	7.14
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C77-10I/P-ND★	10.80	6.66	6.45
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C77-10I/L-ND★	11.35	7.80	7.56
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C77-20I/P-ND★	10.80	6.66	6.45
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C77-20I/L-ND★	11.35	7.80	7.56
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16LC77-04I/P-ND★	10.55	6.51	6.30
8K x 14	368	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-4MHz†	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16LC77-04I/L-ND★	11.08	7.62	7.39
8K x 14	256	EPROM	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-CDip	PIC16C745/JW-ND	11.74	—	11.53
8K x 14	256	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C745-I/SP-ND★	5.43	3.26	2.82
8K x 14	256	OTP	22 (5-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C745-I/SO-ND★	5.43	3.26	2.82
8K x 14	256	EPROM	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-CDip	PIC16C765/JW-ND	12.33	—	12.01
8K x 14	256	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C765-I/L-ND★	6.80	4.17	4.00
8K x 14	256 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C765-I/P-ND	6.48	3.47	—
8K x 14	256 x 8	OTP	33 (8-Ch., 8-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-TQFP	PIC16C765-I/PT-ND	7.45	3.99	—
PIC16C77X With 12-Bit A/D Converter											
4K x 14	256	EPROM	15 (6-Ch., 12-Bit A/C)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	20-CDip	PIC16C771/JW-ND	10.65	—	9.29
4K x 14	256 x 8	EPROM	22 (6-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-CDip	PIC16C773/JW-ND	12.01	—	11.66
4K x 14	256 x 8	OTP	22 (6-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16C773/SP-ND★	6.75	4.16	4.03
4K x 14	256 x 8	OTP	22 (6-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16C773/SO-ND★	6.75	4.16	4.03
4K x 14	256 x 8	OTP	22 (6-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Dip .3"	PIC16LC773/SP-ND★	7.10	4.39	4.24
4K x 14	256 x 8	OTP	22 (6-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	28-Soic	PIC16LC773/SO-ND★	7.10	4.39	4.24
4K x 14	256 x 8	OTP	22 (6-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Dip .3"	PIC16C773-I/SP-ND★	7.43	4.58	4.43
4K x 14	256 x 8	OTP	22 (6-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	28-Soic	PIC16C773-I/SO-ND★	7.43	4.58	4.43
4K x 14	256 x 8	EPROM	33 (10-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC16C774/JW-ND	14.85	—	14.41
4K x 14	256 x 8	OTP	33 (10-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16C774/P-ND★	8.18	5.05	4.89
4K x 14	256 x 8	OTP	33 (10-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16C774/L-ND★	8.85	6.46	6.25
4K x 14	256 x 8	OTP	33 (10-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC16LC774/P-ND★	8.60	5.31	5.14
4K x 14	256 x 8	OTP	33 (10-Ch.,12-Bit A/D)	Xtal/RC	DC-20MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC16LC774/L-ND★	9.28	6.71	6.49
4K x 14	256 x 8	OTP	33 (10-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	40-Dip	PIC16C774-I/P-ND★	9.03	5.57	5.38
4K x 14	256 x 8	OTP	33 (10-Ch., 12-Bit A/D)	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	44-PLCC	PIC16C774-I/L-ND★	9.65	6.97	6.74

Specifications are subject to change based on device characterization.
† Low Power oscillation 200KHz Max.

★ *Digi-Key now offers a programming service using customer supplied Master IC and software disk for Microchips PIC family. The following formats are supported by our programming center: BIN16 — 16-bit binary format (default for PGM16/TASM16), INHXM8 — Merged 8-bit Intel™ Hex (Parallax) format, INHXS8 — Split 8-bit Intel™ Hex format, INHX16 — 16-bit Intel™ Hex format. For further information and price quotes, please call 1-800-344-4539, and request the programming center.*

8-Bit CMOS Microcontrollers with LIN bus Transceiver

PIC16C433 Series

The PIC16C432/433 device is a low cost, high performance, CMOS, fully static, 8-bit microcontroller with integrated analog-to-digital (A/D) converter and an integrated LIN bus Transceiver. The LIN physical layer is implemented in hardware with a voltage range from 0V to 18V, with a 40V transient capability. The LIN protocol is to be implemented in firmware, which enables flexibility with future revisions of the LIN protocol.

High-Performance RISC CPU:

• Only 35 single word instructions to learn • All instructions are single cycle (400 ns) except for program branches which are two-cycle • Operating speed: DC-10MHz clock input; 400 ns instruction cycle • 14-bit wide instructions • 8-bit wide data path • Interrupt capability • Special function hardware registers • 8-level deep hardware stack • Direct, indirect and relative addressing modes for data and instructions

Pheripheral Features:

• Integrated LIN bus Transceiver Wake-up on bus activity • 12V battery operation for Transceiver • Thermal Shut-down for Transceiver • Ground Loss Protection Four-channel • 8 bit A/D converter (433) • Two 8-bit Comparators (432) • 6 I/O (433) • 12 I/O (432) • 8-bit real time clock/counter (TMR0) with 8-bit programmable prescaler

Special Microcontroller Features:

• In-Circuit Serial Programming (ICSP™) • Internal 4MHz oscillator with programmable calibration • Selectable clockout • Power-on Reset (POR) • Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Programmable code protection • Power saving SLEEP mode • Selectable oscillator options: INTRC - Precision internal 4MHz oscillator; EXTRC - External low-cost RC oscillator; XT - Standard crystal/resonator; HS - High speed crystal/resonator; LP - Power saving, low frequency crystal

CMOS Technology:

• Low power, high speed CMOS EPROM/HV-CMOS technology • Fully static design • Operating voltage range 4.5V to 5.5V • Industrial and Extended temperature ranges • Low power consumption <2mA @ 5V, 4MHz <1A typical standby current

PICDEM™ LIN Demonstration Board

Features a PICo® microcontroller (PIC16C432/433) with built-in LIN Bus (Local Interconnect Network) capability. It specifically supports slave node applications with PIC16C432, PIC16C433, PIC16C7xx and master node applications with PIC16x8x and PIC18Fxx8. PIC16C432, PIC16C433 are the first industry microcontrollers with on board LIN transceivers according to LIN bus specification Version 1.2. The PICDEM LIN kit includes a CD-ROM with sample demonstration programs. These programs may be used with the included sample devices or with an emulator system. PICDEM LIN can be used stand alone with a programmed part, or with an emulator system, such as MPLAB ICE 2000. Sample Programs are provided to demonstrate the features of the supported devices.
Kit Includes: • PICDEM LIN demonstration board • PIC16F874 used as master in the LIN communication • Sample programs • PICDEM LIN demonstration board user's guide
Features: • 18, 28, and 40-pin DIP sockets • On-board +12V regulator direct input from 12V • RS-232C socket and associated hardware for direct connection to RS-232C interface • CAN bus interface • Control panel interface for LIN bus master • RF stage for keyless entry function

DM163005-ND $445.00
DM163007-ND *NEW!*..$199.00
DM163011-ND *NEW!*..$199.00

Memory Size		Config-uration	I/O Lines	Oscillator Type Ext.	Freq. Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
2K x 14	128 x 8	EPROM	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-CDip	PIC16C432/JW-ND	10.90	—	9.53
2K x 14	128 x 8	OTP	12	Xtal/RC	DC-20MHz	-40° to 185°F (-40° to 85°C)	20-SSOP	PIC16C432-I/SS-ND	5.23	2.98	2.76
2K x 14	128 x 8	EPROM	5 (1-Input)*	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	18-CDip	PIC16C433/JW-ND	11.78	—	10.29
2K x 14	128 x 8	OTP	5 (1-Input)*	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	18-Dip	PIC16C433-I/P-ND	4.90	2.80	2.60
2K x 14	128 x 8	OTP	5 (1-Input)*	Xtal/RC	DC-10MHz	-40° to 185°F (-40° to 85°C)	18-SOIC	PIC16C433-I/SO-ND	4.90	2.80	2.60

* Have 4 8-bit ADCS

MICROCHIP

PIC18FXX2 / PIC18CXX2 / PIC18FXX20 Series
Flash and OTP High Performance Microcontroller with 10-Bit A/D

(No Memory Paging / 10 MIPS / 8 x 8 MULTIPLY / More Powerful Instructions)

PIC18FXX2 / PIC18FXX20 / PIC18CXX2 Architecture

The PIC18FXX2 / PIC18FXX20 Flash / PIC18CXX2 OTP architecture, an enhanced RISC core that is upward compatible from Microchip's mid-range and high-end core, providing a seamless migration path of software code to higher integration. Applications for the devices are wide ranging and may include anti-lock braking systems, vehicle active suspension, fuel pump controller, fuel injection, manufacturing equipment, instrumentation and monitoring, data acquisition, power conditioning, thermostats, environmental monitoring, telecommunications and consumer audio/video.

High Performance RISC CPU:

• C-compiler optimized architecture/instruction set (source code compatible with the PIC16C, PIC17C instruction sets) • Linear program memory addressing to 32K bytes • Linear data memory addressing to 1.5 Kbytes • Up to 10 MIPs operation: DC - 40 MHz osc./clock input; 4 MHz - 10 MHz osc./clock input with PLL active • 16-bit wide instructions, 8-bit wide data path • Priority levels for interrupts • 8 x 8 Single Cycle Hardware Multiplier, 75 instructions

Peripheral Features:

• High current sink/source 25 mA/25 mA • Three external interrupt pins • **Timer0** module: 8-bit/16-bit timer/counter with 8-bit programmable prescaler • **Timer1** module: 16-bit timer/counter • **Timer2** module: 8-bit timer/counter with 8-bit period register (time-base for PWM) • **Timer3** module: 16-bit timer/counter • Secondary oscillator clock option — Timer1/Timer3 • Two **Capture/Compare/PWM** (CCP) modules. CCP pins that can be configured as: — Capture input: capture is 16-bit, max. resolution 6.25 ns (TCY/16) — Compare is 16-bit, max. resolution 100 ns (TCY) • PWM output: PWM resolution is 1- to 10-bit Max. PWM freq. @: 8-bit resolution = 156 kHz; 10-bit resolution = 39 kHz • **Master Synchronous Serial Port** (MSSP) modules with two modes of operation: 3-wire SPI™ (supports all 4 SPI modes); I^{2}C™ master and slave mode • **Addressable USART** module: Supports RS-485 and RS-232 • **Parallel Slave Port** (PSP) module on PIC16F4X2 and all PIC18FXX20. External program Memory Interface on PIC18F8X20 devices only

Analog Features:

• Compatible **10-bit Analog-to-Digital** converter module (A/D) with: Fast sampling rate; Conversion available during SLEEP; DNL = ±1 LSb, INL = ±1 LSb • **Programmable Low Voltage Detection** (PLVD), supports interrupt on low voltage detection • Programmable Brown-out Reset (BOR)

Special Microcontroller Features:

• 100,000 erase/write cycle Enhanced FLASH program memory typical • 1,000,000 erase/write cycle Data EEPROM memory • FLASH/Data EEPROM Retention: > 40 years • Self reprogrammable under software control • Power-on Reset (POR), Power-up Timer (PWRT), and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Programmable code-protection • Power saving SLEEP mode • Selectable oscillator options including: 4X Phase Lock Loop (of primary oscillator); Secondary Oscillator (32 kHz) clock input • Single supply 5V In-Circuit Serial Programming™ (ICSP™) via two pins • In-Circuit Debug (ICD) via two pins

FLASH Technology:

• Low power, high speed enhanced FLASH/EEPROM technology • Fully static design • Wide operating voltage range (2.0V to 5.5V) • Industrial and extended temperature ranges • Low-power consumption

SW006011-ND C Compiler for the PIC18CXXX Family **$495.00**

Memory Size		Configuration	I/O Lines	Frequency Range Min./Max.	Operating Temperature Range	Package	Digi-Key Part No.	Price Each		
Program	RAM/EEPROM‡							1	25	100
8K x 16	512/—	EPROM OTP OTP	*23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	28-CDip 28-Dip .3" 28-SOIC	PIC18C242/JW-ND PIC18C242-I/SP-ND PIC18C242-I/SO-ND	11.90 8.03 8.03	— 5.46 5.46	11.51 5.28 5.28
8K x 16	512/—	EPROM OTP OTP	†34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	40-CDip 40-Dip 44-PLCC	PIC18C442/JW-ND PIC18C442-I/P-ND PIC18C442-I/L-ND	14.80 8.93 10.00	— 5.51 6.59	14.32 5.33 6.38
16K x 16	1536/—	EPROM OTP OTP	*23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	28-CDip 28-Dip .3" 28-SOIC	PIC18C252/JW-ND PIC18C252-I/SP-ND PIC18C252-I/SO-ND	12.33 8.73 8.73	— 5.93 5.93	11.93 5.73 5.73
16K x 16	1536/—	EPROM OTP OTP	†34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	40-CDip 40-Dip 44-PLCC	PIC18C452/JW-ND PIC18C452-I/P-ND PIC18C452-I/L-ND	15.24 9.65 10.73	— 5.96 6.61	14.74 5.76 6.40
6K x 16	640/256	FLASH	21 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	28-SOIC 28-Dip 28-SOIC 28-Dip	PIC18F2439-I/SO-ND *NEW!* PIC18F2439-I/SP-ND *NEW!* PIC18LF2439-I/SO-ND *NEW!* PIC18LF2439-I/SP-ND *NEW!*	7.78 7.78 8.18 8.18	4.80 4.80 5.04 5.04	4.65 4.65 4.88 4.88
6K x 16	640/256	FLASH	32 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	44-QFN 40-Dip 44-TQFN 44-QFN 40-Dip 44-TQFP	PIC18F4439-I/ML-ND *NEW!* PIC18F4439-I/P-ND *NEW!* PIC18F4439-I/PT-ND *NEW!* PIC18LF4439-I/ML-ND *NEW!* PIC18LF4439-I/P-ND *NEW!* PIC18LF4439-I/PT-ND *NEW!*	12.10 8.65 10.00 12.68 9.10 10.50	7.46 5.34 6.17 7.83 5.62 6.48	7.22 5.17 5.97 7.57 5.43 6.27
8K x 16	768/256	FLASH	*23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	28-Dip .3" 28-SOIC 28-Dip .3" 28-SOIC	PIC18F242-I/SP-ND PIC18F242-I/SO-ND PIC18LF242-I/SP-ND PIC18LF242-I/SO-ND	7.78 7.78 8.18 8.18	4.80 4.80 5.04 5.04	4.65 4.65 4.88 4.88
8K x 16	768/256	FLASH	†34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	44-PLCC 44-QFN 40-Dip 44-TQFP 44-PLCC 44-QFN 40-Dip 44-TQFP	PIC18F442-I/L-ND PIC18F442-I/ML-ND *NEW!* PIC18F442-I/P-ND PIC18F442-I/PT-ND PIC18LF442-I/L-ND PIC18LF442-I/ML-ND *NEW!* PIC18LF442-I/P-ND PIC18LF442-I/PT-ND	9.68 9.80 8.65 10.00 10.15 10.50 9.10 10.50	6.38 5.96 5.34 6.17 6.69 6.48 5.62 6.48	6.18 5.77 5.17 5.97 6.48 6.27 5.43 6.27
12K x 16	1408/256	FLASH	21 (8-Ch., 10-Bit A/D)	DC-40MHz	40° to 85°C	28-SOIC 28-Dip 28-SOIC 28-Dip	PIC18F2539-I/SO-ND *NEW!* PIC18F2539-I/SP-ND *NEW!* PIC18LF2539-I/SO-ND *NEW!* PIC18LF2539-I/SP-ND *NEW!*	8.48 8.48 8.90 8.90	5.23 5.23 5.50 5.50	5.07 5.07 5.32 5.32
12K x 16	1408/256	FLASH	32 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	44-QFN 40-Dip 44-TQFP 44-QFN 40-Dip 44-TQFP	PIC18F4539-I/ML-ND *NEW!* PIC18F4539-I/P-ND *NEW!* PIC18F4539-I/PT-ND *NEW!* PIC18LF4539-I/ML-ND *NEW!* PIC18LF4539-I/P-ND *NEW!* PIC18LF4539-I/PT-ND *NEW!*	12.75 9.38 10.70 13.38 9.83 11.25	7.87 5.79 6.60 8.26 6.07 6.94	7.62 5.60 6.39 8.00 5.87 6.72
16K x 16	1536/256	FLASH	*23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	28-SOIC 28-Dip .3" 28-SOIC 28-Dip .3"	PIC18F252-I/SO-ND PIC18F252-I/SP-ND PIC18LF252-I/SO-ND PIC18LF252-I/SP-ND	8.48 8.48 8.90 8.90	5.23 5.23 5.50 5.50	5.07 5.07 5.32 5.32
16K x 16	1536/256	FLASH	†34 (8-Ch., 10-Bit A/D)	DC-40MHz	40° to 85°C	44-PLCC 44-QFN 40-Dip 44-TQFP 44-PLCC 44-QFN 40-Dip 44-TQFP	PIC18F452-I/L-ND PIC18F452-I/ML-ND *NEW!* PIC18F452-I/P-ND PIC18F452-I/PT-ND PIC18LF452-I/L-ND PIC18LF452-I/ML-ND *NEW!* PIC18LF452-I/P-ND PIC18LF452-I/PT-ND	10.38 10.70 9.38 10.70 10.90 11.25 9.83 10.13	6.82 6.60 5.79 6.60 7.16 6.94 6.07 6.94	6.60 6.39 5.60 6.39 6.93 6.72 5.87 6.72
16K x 16	2048/1024	FLASH	52 (12-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	64-TQFP	PIC18F6520-I/PT-ND *NEW!* PIC18LF6520-I/PT-ND *NEW!*	10.73 11.25	6.61 6.94	6.40 6.72
16K x 16	2048/1024	FLASH	68 (16-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	80-TQFP	PIC18F8520-I/PT-ND *NEW!* PIC18LF8520-I/PT-ND *NEW!*	11.28 11.85	6.96 7.31	6.74 7.07
32K x 16	3840/1024	FLASH	52 (12-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	64-TQFP	PIC18F6620-I/PT-ND PIC18LF6620-I/PT-ND	15.88 16.65	9.53 9.99	8.89 9.33
32K x 16	3840/1024	FLASH	68 (16-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	80-TQFP	PIC18F8620-I/PT-ND PIC18LF8620-I/PT-ND	16.10 16.90	9.66 10.14	9.02 9.47
64K x 16	3840/1024	FLASH	52 (12-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	64-TQFP	PIC18F6720-I/PT-ND PIC18LF6720-I/PT-ND	17.65 16.67	10.58 11.11	9.88 10.37
64K x 16	3840/1024	FLASH	68 (16-Ch., 10-Bit A/D)	DC-40MHz	–40° to 85°C	80-TQFP	PIC18F8720-I/PT-ND PIC18LF8720-I/PT-ND	17.93 16.94	10.75 11.29	10.04 10.54

* 22 are I/O and 1 is output only † 33 are I/O and 1 is output only ‡ Bytes

PIC18FXX8 Microcontrollers
Flash High Performance 28-Pin/40-Pin
(Microcontrollers with CAN)

High Performance RISC CPU:
• C-compiler optimized architecture instruction set • Linear program memory addressing up to 32 K-bytes • Linear data memory addressing to 4 K-bytes • Up to 10 MIPs operation: DC - 40 MHz clock input; 4 MHz - 10 MHz osc./clock input with PLL active • 16-bit wide instructions, 8-bit wide data path • Priority levels for interrupts • 8 x 8 Single Cycle Hardware Multiplier

Peripheral Features:
• High current sink/source 25 mA/25 mA • Four external interrupt pins • **Timer0** module: 8-bit/16-bit timer/counter with 8-bit programmable prescaler • **Timer1** module: 16-bit timer/counter • **Timer2** module: 8-bit timer/counter with 8-bit period register (time-base for PWM) • **Timer3** module: 16-bit timer/counter • Secondary oscillator clock option — Timer1/Timer3 • **Capture/Compare/PWM** (CCP) modules. CCP pins can be configured as: — Capture input: 16-bit, max. resolution 6.25 ns — Compare is 16-bit, max. resolution 100 ns (TCY) • PWM output: PWM resolution is 1 to 10-bit Max. PWM freq. @: 8-bit resolution = 156 kHz; 10-bit resolution = 39 kHz • Enhanced CCP module which has all the features of the standard CCP module, but also has the following features for advanced motion control: 1, 2, or 4 PWM outputs and selectable PWM polarity • Programmable PWM deadtime • Auto shut-down • **Master Synchronous Serial Port** (MSSP) with two modes of operation: 3-wire SPI™ (supports all 4 SPI modes); 1^{2}C™ master and slave mode • **Addressable USART** module: Supports Interrupt on Address bit

Advanced Analog Features:
• **10-Bit Analog-to-Digital** converter module (A/D) with: Fast sampling rate; Conversion available during SLEEP; DNL = ±1 LSb, INL =±1 LSb, up to 8 channels available • Analog Comparator module: 2 comparators, programmable input and output multiplexing • Comparator Voltage Reference module • Programmable **Low Voltage Detection** (LVD) module, supports interrupt on low voltage detection • Programmable Brown-out Reset (BOR)

Special Microcontroller Features:
• 100,000 erase/write cycle Enhanced FLASH program memory typical • 1,000,000 erase/write cycle Data EEPROM memory typical • Power-on Reset (POR), Power-up Timer (PWRT), and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator • Programmable code-protection • Power saving SLEEP mode • Selectable oscillator options including: 4X Phase Lock Loop (of primary oscillator); Secondary Oscillator (32 kHz) clock input • In-Circuit Serial Programming™ (ICSP™) via two pins

CAN bus Module Features:
• Message bit rates up to 1 Mbps • Conforms to CAN 2.0B ACTIVE Spec with 29-bit identifier Fields, 8-byte message length • 3 transmit message buffers with prioritization • 2 receive message buffers • 6 full 29-bit acceptance filters • Prioritization of acceptance filters • Multiple receive buffers for high priority messages to prevent loss due to overflow • Advanced error management features

FLASH Technology:
• Low power, high speed enhanced FLASH technology • Fully static design • Wide operating voltage range (2.0V to 5.5V) • Industrial and extended temperature ranges • Low-power consumption

Memory Size		Config-uration	I/O Lines	Frequency Range Min./Max.	Operating Temperature Range	Package	Digi-Key Part No.	Price Each		
FLASH	RAM/EEPROM†							1	25	100
8K x 16	768/256	FLASH	23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	28-SOIC	PIC18F248-I/SO-ND	9.33	5.76	5.57
8K x 16	768/256	FLASH	23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	28-SOIC	PIC18LF248-I/SO-ND	9.80	6.05	5.85
8K x 16	768/256	FLASH	23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	28-Dip .3"	PIC18F248-I/SP-ND	9.33	5.76	5.57
8K x 16	768/256	FLASH	23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	28-Dip .3"	PIC18LF248-I/SP-ND	9.80	6.05	5.85
16K x 16	1536/256	FLASH	23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	28-SOIC	PIC18F258-I/SO-ND	10.15	6.27	6.07
16K x 16	1536/256	FLASH	23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	28-SOIC	PIC18LF258-I/SO-ND	10.68	6.58	6.37
16K x 16	1536/256	FLASH	23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	28-Dip .3"	PIC18F258-I/SP-ND	10.15	6.27	6.07
16K x 16	1536/256	FLASH	23 (5-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	28-Dip .3"	PIC18LF258-I/SP-ND *NEW!*	10.68	6.58	6.37
8K x 16	768/256	FLASH	34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	44-PLCC	PIC18F448-I/L-ND	10.48	6.85	6.63
8K x 16	768/256	FLASH	34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	40-Dip	PIC18F448-I/P-ND	9.55	5.89	5.70
16K x 16	1536/256	FLASH	34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	44-PLCC	PIC18F458-I/L-ND	11.23	7.31	7.08
16K x 16	1536/256	FLASH	34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	44-PLCC	PIC18LF458-I/L-ND	11.80	7.68	7.43
16K x 16	1536/256	FLASH	34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	40-Dip	PIC18F458-I/P-ND	10.30	6.36	6.15
16K x 16	1536/256	FLASH	34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	40-Dip	PIC18LF458-I/P-ND	10.83	6.68	6.46
16K x 16	1536/256	FLASH	34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	44-TQFP	PIC18F458-I/PT-ND	11.53	7.12	6.89
16K x 16	1536/256	FLASH	34 (8-Ch., 10-Bit A/D)	DC-40MHz	–40° to 185°F (–40° to 85°C)	44-TQFP	PIC18LF458-I/PT-ND	12.13	7.48	7.24

† Bytes

High-Performance 8-Bit CMOS EPROM Microcontrollers
PIC17C4X, PIC17C75X, and PIC17C76X Series

PIC17C4X

(Use Programmer PICSTART Plus)

Overview:
All PIC16/17 microcontrollers employ an advanced RISC architecture. The PIC17CXX has enhanced core features, 16-level deep stack, and multiple internal and external interrupt sources. The separate instruction and data buses of the Harvard architecture allow a 16-bit wide instruction word with a separate 8-bit wide data. The two stage instruction pipeline allows all instructions to execute in a single cycle, except for program branches (which require two cycles). A total of 55 instructions (reduced instruction set) are available in the PIC17C42 and 58 instructions in all the other devices. Additionally, a large register set gives some of the architectural innovations used to achieve a very high performance. For mathematical intensive applications all devices have a single cycle 8 x 8 Hardware Multiplier.

Microcontroller Core Features:
• Only 58 single word instructions to learn • All single cycle instructions (121ns) except for program branches and table reads/writes which are two-cycle • Operating Speed: DC - 33MHz clock input, DC - 121ns instruction cycle • Hardware Multiplier • Interrupt capability • 16 levels deep hardware stack • Direct, indirect and relative addressing modes • Internal/External program memory execution • 64K x 16 addressable program memory space

Peripheral Features:
• 33 I/O pins with individual direction control • High current sink/source for direct LED drive: RA2 and RA3 are open drain, high voltage (12V), high current (60mA), I/O • Two capture inputs and two PWM outputs: Captures are 16-bit, max resolution 160ns, PWM resolution is 1- to 10-bit • TMR0: 16-bit timer/counter with 8-bit programmable prescaler • TMR1: 8-bit timer/counter • TMR2: 8-bit timer/counter • TMR3: 16-bit timer/counter • Universal Synchronous Asynchronous Receiver Transmitter (USART/SCI)

Special Microcontroller Features:
• Power-on Reset (POR), Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Code-protection • Power Saving SLEEP mode • Selectable oscillator options

PIC17C756

Overview:
The PIC17C75X devices are 68-Pin, EPROM-based members of the versatile PIC17CXXX family of low-cost, high-performance, CMOS, fully-static, 8-bit microcontrollers.

All PIC16/17 microcontrollers employ an advanced RISC architecture. The PIC17CXXX has enhanced core features, 16-level deep stack, and multiple internal and external interrupt sources. The separate instruction and data buses of the Harvard architecture allow a 16-bit wide instruction word with a separate 8-bit wide data path. The two stage instruction pipeline allows all instructions to execute in a single cycle, except for program branches (which require two cycles). A total of 58 instructions (reduced instruction set) are available. Additionally, a large register set gives some of the architectural innovations used to achieve a very high performance. For mathematical intensive applications, all devices have a single cycle 8 x 8 Hardware Multiplier.

Microcontroller Core Features:
• Only 58 single word instructions to learn • All single cycle instructions (121ns) except for program branches and table reads/writes which are two-cycle • Operating Speed: DC - 33MHz clock input, DC - 121ns instruction cycle • Hardware Multiplier • Interrupt capability • 16 level deep hardware stack • Direct, indirect and relative addressing modes • Internal/External program memory execution • Capable of addressing 64K x 16 program memory space

Peripheral Features:
• 50 I/O pins with individual direction control • High current sink/source for direct LED drive: RA2 and RA3 are open drain, high voltage (12V), high current (60mA), I/O pins • Four capture input pins: Captures are 16-bit, max resolution 121ns • Three PWM outputs: PWM resolution is 1- to 10-bits • TMR0: 16-bit timer/counter with 8-bit programmable prescaler • TMR1: 8-bit timer/counter • TMR2: 8-bit timer/counter • TMR3: 16-bit timer/counter • Two Universal Synchronous Asynchronous Receiver Transmitter (USART/SCI): Independent baud rate generators • 10-bit, 12 channel analog-to-digital converter • Synchronous Serial Port (SSP) with SPI™ and 1^{2}C™ modes (including 1^{2}C master mode)

Special Microcontroller Features:
• Power-on Reset (POR), Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Brown-out Reset • Code-protection • Power Saving SLEEP mode • Selectable oscillator options

DS00092D-ND	Embedded Control Handbook, Volume 1	**$9.95**
DS00711-ND	Embedded Control Handbook, Update 2000	**$5.00**
DS00161-ND	CD-ROM Microchip Technical Library	**$2.25**

Memory Size		Config-uration	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
2K x 16	232 x 8	OTP	33	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC17C42A-16/P-ND★	10.38	6.38	6.19
2K x 16	232 x 8	OTP	33	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC17C42A-16/L-ND★	10.93	7.81	7.62
2K x 16	232 x 8	OTP	33	Xtal/RC	DC-25MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC17C42A-25/P-ND★	11.08	6.82	6.61
4K x 16	454 x 8	EPROM	33	Xtal/RC	DC-33MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC17C43/JW-ND★	15.45	—	14.98
4K x 16	454 x 8	OTP	33	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC17C43-16/P-ND★	11.70	7.20	6.99
4K x 16	454 x 8	OTP	33	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC17C43-16/L-ND★	12.28	8.63	8.17
4K x 16	454 x 8	OTP	33	Xtal/RC	DC-25MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC17C43-25/P-ND★	12.53	7.71	7.48
4K x 16	454 x 8	OTP	33	Xtal/RC	DC-25MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC17C43-25/L-ND★	13.10	9.14	8.66
8K x 16	454 x 8	EPROM	33	Xtal/RC	DC-33MHz	32° to 158°F (0° to 70°C)	40-CDip	PIC17C44/JW-ND	18.12	—	17.58
8K x 16	454 x 8	OTP	33	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC17C44-16/P-ND★	14.50	8.92	8.66
8K x 16	454 x 8	OTP	33	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC17C44-16/L-ND★	15.15	10.35	9.84
8K x 16	454 x 8	OTP	33	Xtal/RC	DC-25MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC17C44-25/P-ND★	15.53	9.55	9.27
8K x 16	454 x 8	OTP	33	Xtal/RC	DC-25MHz	32° to 158°F (0° to 70°C)	44PLCC	PIC17C44-25/L-ND★	16.18	10.98	10.45
8K x 16	454 x 8	OTP	33	Xtal/RC	DC-33MHz	32° to 158°F (0° to 70°C)	40-Dip	PIC17C44-33/P-ND★	15.53	9.55	9.27
8K x 16	454 x 8	OTP	33	Xtal/RC	DC-33MHz	32° to 158°F (0° to 70°C)	44-PLCC	PIC17C44-33/L-ND★	16.18	10.98	10.45
8K x 16	678	OTP	50 (12-Ch., 10-Bit A/D)	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	68-PLCC	PIC17C752-16/L-ND	13.73	9.62	9.33
8K x 16	678	OTP	50 (12-Ch., 10-Bit A/D)	Xtal/RC	DC-33MHz	32° to 158°F (0° to 70°C)	68-PLCC	PIC17C752-33/L-ND	14.68	10.28	9.96
16K x 16	902	EPROM	50 (12-Ch., 10-Bit A/D)	Xtal/RC	DC-33MHz	32° to 158°F (0° to 70°C)	68CERQUAD	PIC17C756A/CL-ND	17.60	—	—
16K x 16	902	OTP	50 (12-Ch., 10-Bit A/D)	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	68-PLCC	PIC17C756A-16/L-ND	14.35	10.04	9.72
16K x 16	902	OTP	50 (12-Ch., 10-Bit A/D)	Xtal/RC	DC-16MHz	-40° to 185°F (-40° to 85°C)	68-PLCC	PIC17C756A-16I/L-ND	15.78	11.01	10.67
16K x 16	902	OTP	50 (12-Ch., 10-Bit A/D)	Xtal/RC	DC-33MHz	-40° to 185°F (-40° to 85°C)	68-PLCC	PIC17C756A-33I/L-ND	16.88	11.76	11.39
8K x 16	678	OTP	66 (16-Ch., 10-Bit A/D)	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	84-PLCC	PIC17C762-16/L-ND	16.78	11.71	11.35
16K x 16	902	EPROM	66 (16-Ch., 10-Bit A/D)	Xtal/RC	DC-33MHz	32° to 158°F (0° to 70°C)	68CERQUAD	PIC17C766/CL-ND	18.38	—	—
16K x 16	902	OTP	66 (16-Ch., 10-Bit A/D)	Xtal/RC	DC-16MHz	32° to 158°F (0° to 70°C)	84-PLCC	PIC17C766-16/L-ND	17.98	12.51	12.12
16K x 16	902	OTP	66 (16-Ch., 10-Bit A/D)	Xtal/RC	DC-33MHz	32° to 158°F (0° to 70°C)	84-PLCC	PIC17C766-33/L-ND	18.43	12.80	12.40
16K x 16	902	OTP	66 (16-Ch., 10-Bit A/D)	Xtal/RC	DC-16MHz	-40° to 185°F (-40° to 85°C)	84-PLCC	PIC17C766-16I/L-ND	18.93	13.15	12.74
16K x 16	902	OTP	66 (16-Ch., 10-Bit A/D)	Xtal/RC	DC-33MHz	-40° to 185°F (-40° to 85°C)	84-PLCC	PIC17C766-33I/L-ND	20.25	14.05	13.61

★ Digi-Key now offers a programming service using customer supplied Master IC and software disk for Microchips PIC family. The following formats are supported by our programming center: BIN16 — 16-bit binary format (default for PGM16/TASM16), INHXM8 — Merged 8-bit Intel™ Hex (Parallax) format, INHXS8 — Split 8-bit Intel™ Hex format, INHX16 — 16-bit Intel™ Hex format. For further information and price quotes, please call 1-800-344-4539, and request the programming center.

28-Pin Programmable Mixed Signal Controller — PIC14000

General Description: The **PIC14000** is a low-cost, high-performance, CMOS, fully-static, mixed signal, factory calibrated, 8-bit microcontroller. Its features include medium to high resolution A/D conversion (10 to 16 bits), temperature sensing, closed loop charge control, serial communication, and low power operation.

(Use Programmer PICSTART Plus.) The **PIC14000** is based on the high-performance PIC16C74 core. It uses a RISC-like Harvard architecture CPU with separate 14-bit instruction and 8-bit data buses. A two-stage instruction pipeline allows all instructions to execute in a single cycle, except for program branches, which require two cycles. A total of 35 instructions are available. Additionally, a large register set is included.

High-Performance RISC CPU: • Based on PIC16C74 microcontroller • Only 35 single word instructions to learn • All single cycle instructions except for program branches which are two-cycle • Operating speed: DC - 20MHz clock input • 4096 x 14 on-chip EPROM program memory • 192 x 8 general purpose registers (SRAM) • 6 internal and 5 external interrupt sources • 38 special function hardware registers • Eight level deep hardware stack

Analog Peripherals Features: • Slope Analog-to-Digital (A/D) converter: Eight external input channels (two channels with selectable input ranges of -0.3V to VDD -2.0V or 0V to VDD -1.5V), Seven internal input channels, Programmable A/D resolution, up to 16 bits, 16 ms maximum conversion time at maximum (16-bit) resolution and 4 MHz clock, 4-bit current DAC, Internal bandgap voltage reference, Factory calibrated with calibration constants stored in EPROM, Provisions for measuring energy in high frequency pulses (e.g., GSM cellular telephone) • On-chip temperature sensor • Voltage regulator control output for 5V operation • Two multi-range DACs for programmable level/window detect or constant current/voltage charge control • On-chip low voltage detector

Special Microcontroller Features: • Power-on Reset (POR), Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) • Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation • Multi-segment programmable code-protection • Selectable oscillator options: Internal 4 MHz oscillator, External crystal oscillator • Two pin serial in-system EPROM programming

Digital Peripherals Features: • 20 I/O pins with individual direction control • High current sink/source for direct LED drive • ADTMR: A/D counter, 16-bit counter with pre-load and capture • TMR0: 8-bit timer/counter with 8-bit programmable prescaler • I²C™ serial port compatible with: ACCESS.bus™, SMBus (System Management Bus)

Memory Size		Config-uration	I/O LInes	Oscillator Type External	Frequency Range Min./Max.	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM	RAM								1	25	100
4K x 14	192 x 8	EPROM	20	Xtal	DC-4MHz	32° – 158°F (0° - 70°C)	28-CDip .3”	PIC14000/JW-ND	17.80	—	14.99
4K x 14	192 x 8	OTP	20	Xtal	DC-4MHz	32° – 158°F (0° - 70°C)	28-Dip .3”	PIC14000-04/SP-ND★	10.25	8.19	6.83
4K x 14	192 x 8	OTP	20	Xtal	DC-4MHz	32° – 158°F (0° - 70°C)	28-SOIC	PIC14000-04/SO-ND★	10.45	8.36	6.96
4K x 14	192 x 8	OTP	20	Xtal	DC-4MHz	32° – 158°F (0° - 70°C)	28-SSOP	PIC14000-04/SS-ND	11.50	9.19	7.66
4K x 14	192 x 8	OTP	20	Xtal	DC-4MHz	-40° – 185°F (-40° - 85°C)	28-Dip .3”	PIC14000-04I/SP-ND★	11.28	9.01	7.51
4K x 14	192 x 8	OTP	20	Xtal	DC-4MHz	-40° – 185°F (-40° - 85°C)	28-SOIC	PIC14000-04I/SO-ND★	11.50	9.19	7.66
4K x 14	192 x 8	OTP	20	Xtal	DC-4MHz	-40° – 185°F (-40° - 85°C)	28-SSOP	PIC14000-04I/SS-ND	12.65	10.11	8.43

★ *This part can be programmed by Digi-Key. For further information please call 1-800-344-4539, and request programming center.*

PRO MATE-II™ Universal Programmer

Programs all PIC16C5X, PIC16CXX and PIC17CXX Microcontrollers:

PRO MATE-II™ is a universal programmer/development tool that provides product developers with the ability to program user software into PIC16C5X, PIC16CXX and PIC17CXX 8-bit microcontrollers. It comes with Microchip's PIC16CXX simulator/assembler software and PIC17CXX assembler software. The PRO MATE-II™ programmer operates either as a stand-alone unit or in conjunction with a PC host system. PC host software provides file display and editing and transfer to and from the programming unit. The PRO MATE-II™ is compatible with and is replacing the existing PRO MATE™ programmer. The PRO MATE-II™ was designed primarily to comply with the new European “CE” requirements for radiated emissions and ESD. The PRO MATE-II™ provides improved socket module alignment and improved LCD display and buttons.

Description of Contents:

• PRO MATE-II™ Universal Programmer Unit • PRO MATE-II™ Universal Power Supply • PRO MATE-II™, PIC16CXX Assembler/Simulator and PIC17CXX Assembler Software • PRO MATE-II™ Documentation • RS-232 Interface Cable

Description	Digi-Key Part No.	Price Each
Programmer		
PRO MATE-II™ Universal Programmer	DV007003-ND	695.00
Sockets for PRO MATE-II™ / PRO MATE™		
RFPIC12C509, PIC16C52,54, HV540,55,56,57, 58A, HCS5XX, 18-SOIC, 20-SSOP	AC124002-ND	159.00
Dip Socket Module for PRO MATE-II™ PIC14000	AC144001-ND	159.00
PIC16C52, 54, HV540, 55, 56, 57, 58A, HCS5XX PDIP PRO MATE-II 18 and 28 LD	AC164001-ND	159.00
PIC16C52, 54, HV540, 55, 56, 57, 58A, HCS5XX SOIC PRO MATE-II 18 and 28 LD	AC164002-ND	159.00
PIC16C54, HV540, 55, 56, 57, 58 SSOP PRO MATE-II™ 20 and 28 LD	AC164015-ND	209.00
PIC16C554, 558, 61, 620, 621, 622, 71, 710, 711, 715, 83, 84 PDIP/SOIC PRO MATE-II™ 18 LD	AC164010-ND	189.00
PIC16C620, 621, 622, 710, 711, 554, 558 SSOP PRO MATE-II™ 20 LD	AC164018-ND	159.00
PIC16C62, 63, 64, 65, 66, 67, 642, 662, 72, 73, 74, 76, 77, 773, 774, 87X, 18CXX2 PDip PRO MATE-II 28 and 40 LD (and “A” & “B” Versions)	AC164012-ND	159.00
PIC16C64/65, 44-MQFP	AC162046-ND	45.00
PIC16C64, 65, 662, 67, 74, 77, 774, 874, 877, 18C4X2 PLCC PRO MATE-II™ 44 LD	AC164013-ND	159.00
PIC16C64, 65, 662, 67, 74, 77, 774, 874, 877, PQFP PRO MATE-II™ 44 LD	AC164014-ND	159.00
PIC16C62, 63, 66, 642, 72, 73, 76, 773, 873, 876, 18C2X2 SOIC PRO MATE-II™ 28 LD	AC164017-ND	159.00
PIC17C42A, 43, 44 PDip PRO MATE-II™ 40 LD	AC174001-ND	159.00
PIC17C42A, 43, 44 PLCC PRO MATE-II™ 44 LD	AC174002-ND	159.00

Description	Digi-Key Part No.	Price Each
PIC17C75X, PLCC PRO MATE-II™ 68 LD	AC174007-ND	159.00
PIC12C50X, 50XA, 51X, 67X, CE67X, 16C505(Dip) Dip/SOIC (208 mil) PRO MATE-II™	AC124001-ND	129.00
PIC16C923, 924, PLCC PRO MATE-II™ 68 LD	AC164022-ND	159.00
PIC16C923, 924, TQFP PRO MATE-II™ 64 LD	AC164023-ND	159.00
PIC16C64, 65, 662, 67, 74, 77, 774, 874, 877, 18C4X2 TQFP PRO MATE-II™ 44LD	AC164020-ND	159.00
PIC16C62, 63A, 72, 73B, 773 SSOP PRO MATE-II™ 28 LD	AC164021-ND	189.00
PIC16C923, 924 SDIP PRO MATE-II™ 64 LD	AC164025-ND	159.00
PIC16C505, 12CE51X, 12C50XA SOIC/TSSOP (150 mil) PRO MATE-II™ 8 and 14 LD	AC164026-ND	159.00
PIC16C432, 20-Dip, 20-SSOP	AC164029-ND	159.00
PIC16C433, 18-Dip, 18-SOIC	AC164030-ND	159.00
PIC16CXX, 28 Pin MLF	AC164031-ND	159.00
PIC16C770, 771 PDIP/SOIC PRO MATE-II™ 20 LD	AC164028-ND	159.00
PIC17C42A, 43, 44 TQFP PRO MATE-II™ 44 LD	AC174005-ND	159.00
PIC17C75X TQFP PRO MATE-II™ 64 LD	AC174008-ND	159.00
PIC17C75X SDIP PRO MATE-II™ 64 LD	AC174009-ND	159.00
PIC17C76X TQFP PRO MATE-II™ 80 LD	AC174011-ND	159.00
PIC17C76X PLCC PRO MATE-II™ 84 LD	AC174012-ND	159.00
PIC17C76X PLCC Socket Adapter for PICSTART Plus - 84 LD	AC164027-ND	159.00
Serial E² 24, 93 Series and HCS200, 201, 300, 301, 320, 36X, 410, 412 DIP for PRO MATE-II™ 16 LD	AC004001-ND	159.00
Serial E² 24, 93 Series and HCS200, 201, 300, 301, 320, 36X, 410, 412 SOIC/SOIC for PRO MATE-II™ 16 LD	AC004002-ND	199.00
ICSP Programming Socket for PRO MATE-II™	AC004004-ND	349.00
Power Supply for ICSP AC004004	AC002012-ND	33.00
Header for ICD2 for PIC12F629 and PIC12F675	AC162050-ND	25.00

PICDEM ÏNET

The PICDEM.net™ demonstration board is an Internet/Ethernet demonstration board using the PIC16F877 microcontroller and TCP/IP firmware. The board supports any 40-pin DIP device that conforms to the standard pin out used by the PIC16F877 or PIC18C452. Board comes preconfigured with an Ethernet and IP address. Simple set-up instructions are provided. The demo board is equipped with a 6-pin modular connector to interface directly with the Microchip In-Circuit Debugger (ICD). A generous breadboarding area is also available. Several status indicators and user interface devices are provided, including a 16 x 2 LCD indicator and LEDs.

Includes:

• Ethernet interface • RS-232 interface • Demo Board • Textbook • PIC16F877 MCU • Firmware by Losoft Ltd. • MPLAB® IDE Software • PICDEM.net User's Guide • CAT 5 Ethernet Cable • DB9 Serial Cable • Universal Power Supply

DM163004-ND PIC16F877 Demo Board
with TCP/IP that Connects to LAN $299.00

PICDEM-6 Demo Board

The PICDEM™ 18R Demonstration Board demonstrates the capabilities of the PIC18C601/801 family of Microchip microcontrollers. It supports both PIC18C601 and PIC18C801 devices and provides a hardware implementation of both 8-bit memory modes, as available on PIC18C601/801 microcontrollers.

The board includes on-board 2 MB external FLASH memory and 128KB SRAM memory, as well as serial EEPROM, allowing the user to access the different memory types the PIC18C601/801can interface to.

DM163006-ND $399.00

PICDEM-17 Evaluation Board

The PICDEM™ 17 is an evaluation board that demonstrates the capabilities of several Microchip microcontrollers, including PIC17C752, PIC17C756, PIC17C762 and PIC17C766 features 68-pin PLCC socket, space for 84-pin socket, RS232 interface with DB9 connector for USART1 and for USART2 with hardware handshaking signals, precision analog voltage source and reference for 10-bit A/D, MCP2510 CAN interface support.

DM173001-ND $199.00

PICDEM USB Demonstration Kit

PICDEM™ USB from Microchip demonstrates a PICmicro® (PIC16C765) communicating to a PC using the USB port. Kit includes USB support firmware, example code and reference documentation. Hook up a traditional mouse, keyboard or joystick to the USB port through the preprogrammed board supplied in the kit. Kit includes board with large prototype area, USB, Serial, PS-2, and Gameport connectors.

DM163010-ND $125.00

14-Pin MPLAB ICD 2 Header (AC162052)

The 14-pin MPLAB® ICD 2 Header provides a development environment for the 14-pin PICmicro® devices such as the PIC16F630/676.

AC162052-ND $25.00

PICDEM-1

The PICDEM-1 is a simple board which demonstrates the capabilities of several of Microchip's microcontrollers. The micro-controllers supported are: PIC16C5X (PIC16C54 to PIC16C58), PIC16C62X, PIC16C71, PIC16C84, and PIC17C42. **Kit Contents:** PICDEM-1 demonstration board, PIC16/17 product samples, demo/tutorial software, complete documentation.

DM163001-ND $99.00

PICDEM-2 Plus

The PICDEM-2 Plus comes with an active program loaded on the installed PIC18F452 microcontroller that demonstrates many of the devices features and easy peripheral interface. The program sets up the PICmicro as a real time clock and measures the local temperature which are displayed on the 2 x 16 LCD. All of the information displayed on the LCD is also sent out on the active RS 232 port that can be viewed on a monitor. The “on board” memory is actively used and a pulse width modulated (PWM) signal is sent to the piezo sounder. Can use the ICD2 with this kit to debug code. A second popular flashed based microcontroller, the PIC16F877, is included with its own demonstration program.

Features:

• 2 x 16 LCD display • Piezo sounder driven by PWM signal • Active RS 232 port • On board temperature sensor • 4 LED's • 2 push button switches and master reset • ICD connector

DM163022-ND $99.00

PICDEM-3

The PICDEM-3 is a simple board which demonstrates the capabilities of Microchip's microcontroller LCD family. All necessary hardware is included to run basic demo programs, which are supplied on a 3.5" disk. A programmed sample is included, and the user may erase it and program it with the other sample programs using the PRO MATE® or PICSTART®Plus programmer. The PICSTART®Plus requires a 68- to 40-pin converter socket (AC164024-ND).

Features:

• 68-pin PLCC sockets • 5K pot for analog input to the PIC16C9XX
• Thermistor for use with A/D converter

DM163003-ND $129.00

PIC14000 Demo Board

DM143001-ND $129.00

MPLAB™-*ICE* In-Circuit Emulator

MPLAB-ICE High-Performance, Real-Time In-Circuit Emulator

MPLAB-ICE is Microchip's new Universal In-Circuit Emulator (ICE) for the 8-bit PICmicro™ microcontrollers (MCU). MPLAB-ICE has been designed with the user requirements in mind. The system is small, portable and lightweight, while at the same time, offers improved performance and value. For quick hook up to portables or desktop PCs, MPLAB-ICE easily connects to the parallel (printer) port. In addition, MPLAB-ICE provides a migration path for existing customers designing with PICMASTER® Probe Kits.

Interchangeable processor modules allow the system to be easily configured to emulate different processors. This modular system require an emulator pod, a processor module, a device adapter, some emulated parts, if SMT or TQFP require translation sockets (All parts purchased separately)
Also included is Microchip's MPLAB IDE featuring MPASM macro assembler, MPLAB programmer's editor, symbolic debugger, and project manager with built-in support for high-level languages that supports the Common Object Description format (i.e., MPASM and MPLAB-C17).

MPLAB-ICE 2000 is a premium quality emulator system providing full-speed emulation, low voltage operation, 32K by 128-bit trace, and 65,535 breakpoints.

MPLAB-ICE 4000 is a premium emulator system providing the features of MPLAB ICE 2000, but with increased emulation memory and high speed performance for dsPIC30F and PIC18XXXX devices. Its advanced emulator features include complex triggering and timing, up to 2Mb of emulation memory, and the ability to view variables in real time.

Features: • High-performance PC-based development system for PICmicro™ MCUs • Includes MPLAB IDE • Assembly and C source level debugging • Real-time in-circuit emulation to maximum speed of PICmicro MCUs • Program memory emulation and memory mapping capability up to 64K words • Real-time trace with up to 32K deep by 128 bit wide buffer • Low voltage emulation (as low as 2.0 volts) • Unlimited software breakpoints • Trigger/break/trace on program address and data; internal register address and data; eight external inputs; and access type • Complex breakpoints with four levels of advance trigger features, including sequential events, AND/OR events, filtered trace, pass counters, delay triggering, and time between two events • External trigger input and output allows logic analyzer/scope interface • Time-stamp function • Software programmable target clock speeds (32kHz to 40MHz) • Parallel port (printer) interface • Supports all PICmicro package types, including all through-hole and SMT packages • Interchangeable processor modules • The MPLAB ICE 4000 is a powerful, full featured real-time In-Circuit Emulator capable of debugging the most demanding real time systems. Key features include: • Full speed emulation • Low voltage emualtion down to 1.8 volts (or device limit) • 64K deep x 216-bit wide Trace Memory • Up to 2MB of addressable memory • Unlimited breakpoints • Complex, trace and trigger logic • Multi-level trigger up to 4 levels • 48-bit time stamp • Stopwatch • External inputs • External output to sync with other instrumentation • USB port and parallel port connection to PC

Host System Requirements: • PC with 386 or higher processor (Pentium™ recommended) • 8MB Memory (32MB recommended) • 16MB hard disk space (20MB recommended) • VGA or Super VGA Monitor • Microsoft Windows 3.1 or greater • Parallel Port

Features	MPLAB-ICE 2000
Real-Time Emulation	Full Speed
Low-Voltage Emulation	2.0 to 5.5 volts
Trace Memory	32K x 128 bit
Monitoring Internal Registers	Yes
Software Breakpoints	Program Address
Complex Hardware Trigger / Breakpoints	Program Address and Data Internal Register and Data; Address Type;and 8 External Inputs
Logic Analyzer Trigger	1 External Input and Output
Multi-level Trigger	Yes (4 levels)
Pass Counter	Yes
Delay Counter	Yes
Time Stamp	Yes
Programmable Clock	32 kHz to 40 MHz
Logic Probes	Yes
Communications	Parallel (printer) Port
Code Coverage Profiling	Yes

Description	Digi-Key Part No.	Price Each
MPLAB-ICE Emulator Pods		
MPLAB-ICE 2000 Universal Emulator Pod Kit	ICE2000-ND	1525.00
MPLAB-ICE 4000 In-Circuit Emulator Pod Kit	ICE4000-ND *NEW!*	2560.00
MPLAB-ICE Processor Modules (Probes)		
PIC12C671, 672, CE673, CE674 Processor Module	PCM12XA0-ND	445.00
PIC16F629, 675 Processor Module	PCM12XB0-ND	445.00
PIC12C50X, CE51X, PIC16C505, 52, 54, 54A, 54B, 55, 55A, 56, 56A, 57, 57C, 58A, 58B Processor Module	PCM16XA0-ND	445.00
PIC16C62A, 63, 64A, 65A, 72, 73A, 74A Processor Module	PCM16XB1-ND	445.00
PIC16C554, 558, 620, 620A, 621, 621A, 622, 622A, CE623, CE624, CE625 Processor Module	PCM16XC0-ND	445.00
PIC16C642, 662 Processor Module	PCM16XD0-ND	445.00
PIC16C63A, 65B, 66, 67, 72A, 73B, 74B, 76, 77, 712, 716 Processor Module	PCM16XE1-ND	445.00
PIC16C71, 710, 711 Processor Module	PCM16XF0-ND	445.00
PIC16C715 Processor Module	PCM16XG0-ND	445.00
PIC16F83, F84, F84A,Processor Module	PCM16XH1-ND	445.00
PIC16C923, 924 Processor Module	PCM16XJ0-ND	445.00
PIC16C773, 774 Processor Module	PCM16XL0-ND	445.00
PIC16C717, 770, 771 Processor Module	PCM16XN0-ND	445.00
PIC16F627, 628 Processor Module	PCM16XP0-ND	445.00
PIC16C745, 765 Processor Module	PCM16XQ1-ND	445.00
PIC16C870, 871 Processor Module	PCM16XR0-ND	445.00
PIC16C925, 926 Processor Module	PCM16XT0-ND	445.00
PIC16F8XXA Processor Module	PCM16XV0-ND	445.00
PIC16F818, 819 Processor Module	PCM16YE0-ND *NEW!*	445.00
PIC16F87X Processor Module	PCM16XK1-ND	445.00
PIC16C717, 770, 771 Processor Module	PCM16XN1-ND	445.00
PIC16F870, 871 Processor Module	PCM16XR1-ND	445.00
PIC16F7X Processor Module	PCM16XS2-ND	445.00
PIC16C432 Processor Module	PCM16YB0-ND	445.00
PIC16C433 Processor Module	PCM16YC0-ND	445.00
PIC17C42A, 43, 44, 752, 756, 756A, 76X Processor Module	PCM17XA0-ND	445.00
PIC18CXX2 Processor Module	PCM18XA0-ND	445.00
PIC18CXX8 Processor Module	PCM18XB0-ND	445.00
PIC18F242, 252, 442, 452 Processor Module	PCM18XC1-ND	445.00
PIC18F248, 258, 448, 458 Processor Module	PCM18XD1-ND	445.00
PIC18F6620, 6720, 8620, 8720 Processor Module	PMF18WA0-ND *NEW!*	595.00
PIC18FXX20 Processor Module	PCM18XE1-ND	445.00
PIC18F2220, 2320, 4220, 4320 Processor Module	PCM18XH0-ND	445.00
PIC18F1220, 1320 Processor Module	PCM18XJ0-ND *NEW!*	445.00
MPLAB-ICE Device Adapters		
PIC12C50X, CE51X PDIP and SOIC 8 LD Device Adapter	DVA12XP080-ND†	125.00
PIC12C67X, CE67X PDIP and SOIC 8 LD Device Adapter	DVA12XP081-ND†	125.00
PIC16C64A, 65A, 65B, 67, 662, 74A, 74B, 765, 77, 774, F871, 874, 877, PIC18CXX2 PQFP and TQFP 44 LD Device Adapter	DVA16PQ441-ND†	225.00
PIC16C923 and 924 TQFP 64 LD Device Adapter	DVA16PQ640-ND†	225.00
PIC16C64A, 65A, 65B, 67, 662, 74A, 74B, 77, 774, 874, 877, PIC18CXX2 PLCC 44 LD Device Adapter	DVA16XL441-ND	165.00
PIC16C923 and 924 PLCC 68 LD Device Adapter	DVA16XL680-ND	225.00
PIC16C505 PDIP and SOIC (150 mil) 14 LD Device Adapter	DVA16XP140-ND†	125.00

Description	Digi-Key Part No.	Price Each
PIC16C52, 54, 54A, 54B, 56, 56A, 58A, 58B, 554, 558, 620, 620A, 621, 621A, 622, 622A, CE623, CE624, CE625, 71, 710, 711, 715,F83, F84, F84A PDIP, SOIC, and SSOP 18/20 LD Device Adapter	DVA16XP180-ND†	125.00
PIC16C712, 716, PDIP, SOIC, SSOP, 18 LD Device Adapter	DVA16XP182-ND†	165.00
PIC16F627, 628, PDIP, SOIC, SSOP, 18 LD Device Adapter	DVA16XP183-ND	165.00
PIC16C717, 18 LD P Device Adapter	DVA16XP184-ND	165.00
PIC16C433 Device Adapter 18 LD, PDIP, SOIC, CDIP	DVA16XP185-ND	165.00
PIC16C770, 771 P,SO SS 20 LD Device Adapter	DVA16XP200-ND	165.00
PIC16C432, P, SS, JW, 20 LD Device Adapter	DVA16XP201-ND	165.00
PIC16C55, 55A, 57, 57C, PDIP, SOIC, and SSOP 28 LD Device Adapter	DVA16XP280-ND†	125.00
PIC16C62A, 63, 63A, 642, 66, 72, 72A, 73A, 73B, 76, 773, 873, 876, PIC18CXX2 PDIP, SOIC,and SSOP 28 LD Device Adapter	DVA16XP282-ND	165.00
PIC16C64A, 65A, 65B, 67, 662, 74A, 74B, 77, 774, 874, 877, PIC18CXX2 PDIP 40 LD Device Adapter	DVA16XP401-ND	165.00
PIC16C923 and 924 SDIP 64 LD Device Adapter	DVA16XP640-ND	225.00
PIC17C42A, 43, and 44 TQFP and PQFP 44 LD Device Adapter	DVA17PQ441-ND†	225.00
PIC17C752, 756, and 756A TQFP 64 LD Device Adapter	DVA17PQ641-ND†	225.00
PIC17C762 and 766 TQFP 80 LD Device Adapter	DVA17PQ801-ND†	225.00
PIC17C42A, 43, and 44 PLCC 44 LD Device Adapter	DVA17XL441-ND	165.00
PIC17C752, 756, and 756A PLCC 68 LD Device Adapter	DVA17XL681-ND	225.00
PIC17C762 and 766 PLCC 84 LD Device Adapter	DVA17XL841-ND	165.00
PIC17C42A, 43, and 44 PDIP 40 LD Device Adapter	DVA17XP401-ND	125.00
PIC18F4220, 4320 TQFP 44LD Device Adapter	DVA18PQ440-ND	225.00
PIC18C658 TQFP 64 LD Device Adapter	DVA18PQ640-ND	225.00
PIC18C858 TQFP 80 LD Device Adapter	DVA18PQ800-ND	225.00
PIC18C658 PLCC 68 LD Device Adapter	DVA18XL680-ND	225.00
PIC18C858 PLCC 84 LD Device Adapter	DVA18XL840-ND	225.00
PIC18F1220, 1320 18LD Device Adapter	DVA18XP180-ND *NEW!*	165.00
PIC18F2220, 2320 PDIP 28LD Device Adapter	DVA18XP280-ND	165.00
PIC18F4220, 4320 PDIP 40LD Device Adapter	DVA18XP400-ND	165.00
MPLAB-ICE Transition Sockets		
8 LD (150 and 208 mil SOIC) Small Outline Translation Socket	XLT08SO-ND	35.00
14 LD (150 and 208 mil SOIC) Small Outline Translation Socket	XLT14SO-ND	35.00
14LD (TSSOP) Tiny Small Outline Translation Socket	XLT14SS-ND *NEW!*	75.00
18 LD (SOIC 300 mil) Small Outline Translation Socket	XLT18SO-ND	75.00
20 LD (300 mil SO) Small Outline Translation Socket	XLT20SO1-ND	75.00
20 LD (SSOP) Small Outline Translation Socket	XLT20SS1-ND	75.00
28 LD (SOIC 300 mil) Small Outline Translation Socket	XLT28SO-ND	75.00
28 LD (300 mil to 600 mil) PDIP Translation Socket	XLT28XP-ND	75.00
20 LD (SSOP) Shrink Small Outline Translation Socket	XLT20SS-ND	75.00
28 LD (SSOP 300 mil) Small Outline Translation Socket	XLT28SS-ND	75.00
28 LD (SSOP 300 mil) Small Outline Translation Socket PIC16C55, 55A, 57, 57C	XLT28SS2-ND	75.00
44 LD Plastic Quad Flatpack (PQFP) and Plastic Thin Quad Flatpack (TQFP) Translation Socket	XLT44PT-ND	125.00
64 LD Plastic Thin Quad Flatpack (TQFP) Translation Socket for PIC16C92X	XLT64PT1-ND	125.00
64 LD Plastic Thin Quad Flatpack (TQFP) Translation Socket for PIC17C75X	XLT64PT2-ND	125.00
80 LD Plastic Thin Quad Flatpack (TQFP) Translation Socket	XLT80PT-ND	125.00
NEW! ICE4000 Accessories NEW!		
Power Supply for ICE4000	ACICE0401-ND	50.00
Logic Probe for ICE4000	ACICE0402-ND	60.00
Slim Parallel Cable for ICE4000	ACICE0403-ND	40.00
Flex Cable for ICE4000	ACICE0407-ND	55.00

† For SOIC, SSOP, PQFP, and TQFP support, product requires additional Transition Socket which is sold separately. **Microchip's Internet home page can be reached at: *www.microchip.com*.**

MICROCHIP

NEW! PICkit™ 1 FLASH Starter Kit

A low-cost development kit with an easy to use interface for programming Microchip's 8/14-pin FLASH family of microcontrollers. This starter kit is designed to help the user get up to speed quickly using PIC® microcontrollers.

The kit provides everything needed to program, evaluate and develop applications using Microchip's powerful 8/14-pin FLASH family of microcontrollers. Instructions are provided in a series of seven tutorials that cover I/O, Interrupts, A/D Converters, Comparators, Data Tables and Timers. All source code files for the tutorials are furnished.

Features:

• Small 3" x 4.5" circuit board with snap-off prototyping board • Easy to use Windows® programming interface for programming Microchip's 8/14-pin FLASH family of microcontrollers • Seven sequential tutorials written in both Assembly and HI-TECH C demonstrate how to use Microchip's 8/14-pin FLASH family of microcontrollers • Microchip's Tips 'n Tricks Booklet provides efficient, low-cost design techniques using Microchip FLASH microcontrollers • PICkit 1 User Guide (included on CD ROM) • FREE! Microchip's MPLAB IDE software for a complete code development environment • FREE! HI-TECH PICC™ LITE C Compiler (contained on the MPLAB CD-ROM)

Kit Includes:

• PICkit 1 Circuit Board with 8-pin PIC12F675 • PICkit 1 FLASH Starter Kit CD-ROM • MPLAB IDE (Integrated Development Environment) CD-ROM • Software and Hardware "Tips 'n Tricks" for 8-pin FLASH PIC Microcontrollers Booklet • USB Interface Cable

DV164101-ND	$36.00

ICD2 In-Circuit Debugger for PIC18FXX2/XX8 Flash Microcontrollers

The ICD 2 module is a low cost development tool which connects between the PC and the designers target board allowing direct in circuit debugging of the PICmicro target microcontroller. DEBUGS PIC18F2X2, PIC18F4X2, PIC18F2X8, PIC18F4X8, PIC18FXX20 and PIC18CX01 series of Microchip parts. Programs can be executed in real time or single step, watch variables established, break points set, memory read/writes accomplished and more. It can also be used as a development programmer for the Microcontrollers. USB (Full Speed 2 M bits) and RS 232 interface to HOST PC. Totally enclosed. Supports low voltage to 2.0 volts. (2.0 to 6.0 range).

Full kit includes:

In-circuit debugging module, USB and modular cables, RS232 serial cable and power supply. Simple suite doesn't include RS232 cable and power supply.

DV164005-ND	Kit ICD2 Simple Suit without Power Supply*	$159.00
DV164006-ND	Kit ICD2 Full Kit with PICDEM2 also with Power Supply	$229.00
DV164007-ND	Kit ICD2 Full Kit with Power Supply	$188.00
AC162049-ND	Programming Module	$39.00

* Optional power supply, AC162039-ND

MCP2510 CAN Developer's Kit

Features:

For an introduction to CAN, this tool can be used to demonstrate basic communication on a CAN bus via message transmission and reception. Messages are created on a host PC for transmission to the target board. As messages are sent or received, LEDs connected to the MCP2510 transmission pins toggle to show message traffic.

Push-button switches on the target board show how digital inputs are handled, while a potentiometer shows how to handle analog inputs via the CAN bus. In this manner, both the transmission and reception of messages can be easily demonstrated and understood.

MCP2510 software development is made easy by offering a variety of features designed to manipulate the functionality of the MCP2510. CAN messages are created and can be saved for later use and modification. Also, received messages are displayed in a separate window on the PC in a destuffed format to easily identify message contents. In addition, this tool provides the ability to read, display and modify all registers of the MCP2510. All of these features are designed to jump-start system designers' understanding of the MCP2510 and speed software development.

DV251001-ND	MCP2510CAN Developer's Kit	$239.00

Stand-Alone CAN Controller with SPI Interface

MCP2551-I/P-ND *NEW!*	High Speed Can Transceiver 8-DIP	$1.48
MCP2510-I/P-ND	Ind Temperature 18-Dip	$4.20
MCP2510-I/SO-ND	Ind Temperature 18-SOIC	$4.20
MCP2510-E/P-ND	Extended Temperature 18-Dip	$5.33
MCP2510-E/SO-ND	Extended Temperature 18-SOIC	$5.33

PICSTART Plus Programmer

PICSTART Plus is an entry level development kit that will *SUPPORT ALL* PIC12C5XX, PIC12C67X, PIC12CE, PIC16C, PIC16F8XX and PIC17C MICROCONTROLLERS *including* the PIC14000, PIC17C4X and PIC17C75X families.

Kit Includes:

• PICSTART Plus programmer system • RS232 cable • Power supply • PIC16F84 EEPROM microcontroller sample • MPLAB software diskette: includes MPLAB, MPASM-Windows, MPLAB-SIM simulator • PICSTART Plus software diskette Windows based user interface software for PICSTART Plus, runs under MPLAB • User's manual for PICSTART Plus • User's manual for MPSIM • User's manual for MPLAB, covers MPLAB, MPLAB-SIM and Editor • *CD-ROM: Includes databook and Embedded Control Handbook*

DV003001-ND	PICSTART Plus Programmer	$199.00
AC164024-ND	PIC16C92X, PIC17C75X 68PLCC Adapter	$129.00
AC164027-ND	PLCC Socket Adapter for PICSTART Plus 84 LD	$159.00
AC162048-ND	Power Supply with Serial Cable for Microchip Tool	$29.00

Programmer and Evaluation Kit

The KeeLoq Evaluation Kit demonstrates the capabilities of Microchip's code-hopping technology. It includes everything you need to program and test the KeeLoq encoders and decoders.

Kit Includes:

• Software and License disk • Programmer board for programming encoders, decoders, and transponders • Sockets for HCS Series or software based decoder and RF based receiver module • PDip transmitter for use with any HCS Series encoder or transponder (encoding capability only) • Sample Kit • Requires separate 9V Power Supply (AC162039-ND) and 9 pin Serial Cable (AE1020-ND)

DM303006-ND		$249.00
AC162039-ND	Power Supply	$24.00
DS00161-ND	CD-ROM Microchip Technical Library	$2.25

SEEPROM Designer's Development Kit

Supports all Microchip 2-wire and 3-wire SERIAL EEPROMs

The Serial EEPROM Designer's Kit includes everything necessary to read, write, erase or program special features of any Microchip Serial EEPROM products including *Smart Serials™* and secure serials.

Description of Contents:

• SEEVAL™ Evaluation and Programming System • Total Endurance Software Model • Serial EEPROM Handbook • SEEVAL software • RS-232 Interface Cable • Serial EEPROM Sample Pack • Power Supply

PICSEE™ Introduction Design Kit

- PICSEE™ PDIP and SOIC to PIC16C54 or 24LC01B Programming Adapter Sockets
- Header Interface for PICStart-16B, PICMASTER-16A and PICPROBE-16A
- Serial EEPROM Example Software Disk
- MTA81010 Product Samples
- 8 and 18-Pin Programming Adapter Plugs
- Complete Systems Documentation

Description	Digi-Key Part No.	Price Each
SEEPROM Designer's Development Kit	DV243001-ND	75.00
PICSEE™ Introduction Design Kit	AC812001-ND	330.00
IC TrueGauge™ Battery Fuel Gauge (28-DIP .3")	MTA11200B/SP-ND	7.37

C-Compiler for PICmicro® MCUs

C-Compiler for 12 Bit, 14 Bit and PIC18 PICmicro MCUs. This Integrated C Development Environment gives developers the capability to quickly produce very efficient code from an easily maintainable high level language. With full standard C compatibility, a full featured, Windows IDE with built-in functions and example programs, you will be able to develop embedded solutions for the full line of PICmicro MCUs.

429-1000-ND	C-Compiler (PCWH)	395.00

microEngineering Labs, Inc.

PicBasic Pro Compiler

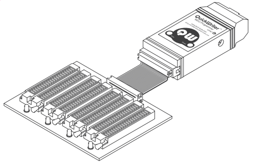
PicBasic Pro converts your BASIC programs into files that can be programmed directly into a PICmicro MCU. Full support for 14-bit and 16-bit MCUs. Limited support for 12-bit MCUs. The PicBasic Pro Compiler features: BASIC commands, direct and library routine access to pins on PORTA, C, D, E, as well as PORTB, arrays, real IF..THEN..ELSE and interrupt processing in BASIC.

Includes: Code Designer Lite, a Windows integrated development environment (IDE) that is compatible with our PicBasic Pro Compiler. Comes with Software, Manual with instruction set and explanations and directions. Works on any version of Dos or Windows with CodeDesigner Lite . Windows95, 98, 2000, XP, and ME compatible.

The LAB-X1A is a independent hardware platform, similar to the Microchip PICDEM products. It can run programs written in any language, including C, Assembly, and PicBasic. Includes 40 Pin Zif Socket, LCD display, memory, Rs232 port, Pots for ADCs, and many extras.

444-1000-ND	PicBasic Pro Compiler	$249.95
444-1001-ND	LAB-X1 Experimenter Board	$199.95

QuickWriter™ Programmer



***Shown with 4 Gang Adapter (not included). Programming adapters must be purchased separately.**

QuickWriter™ comes with power supply, serial cable and in circuit programming cable. Adapter required when not using ICSP cable.
One programmer for all of your PIC® MCU development needs:
• In-circuit Serial Programming • 4 Gang Serial device programming
• Single device programming (serial and parallel)

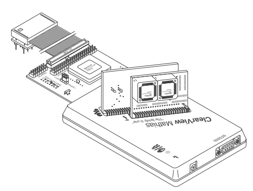
QuickWriter™ is a low cost programmer with these advanced features:

• Over-sized drivers and power supply to properly support multiple device programming and in-circuit programming • Measures programming voltages and current to verify proper target connections or device insertions • Flash firmware updates • Data table driven • New devices are supported with free data table downloads from the TechTools web site (www.tech-tools.com) • Programs ALL 12-bit, 14-bit, and 18-bit series Microchip PIC processors. This includes all 12C, 14000, 16C, 16F, 18C, and 18F families • Includes the TechTools Development Environment (TDE™), a full featured, Windows hosted IDE. TDE™ supports development with all popular PIC®MCU compilers and assemblers. TDE™ includes a multi-file editor, integrated MAKE and one-click cross referencing of compiler errors. TDE™ also interfaces to the TechTools ClearView™ Mathias (not included) for full featured, real-time, in-circuit emulation and source level debugging. • Includes TechTools PIC® MCU assembler, CVASM16™. CVASM16™ supports ALL 12-bit and 14-bit PIC® MCU processors. CVASM16™ assembles Parallax source files (SPASM format) and accepts Microchip mnemonics. • Compatible with existing TechTools and Parallax programming adapters • Accepts HEX files generated by all popular PIC®MCU compilers and assemblers • Supports auto-incrementing serialization • Runs under Win95 through XP as well as NT through XP Pro • Includes serial cable, in-circuit programming cable and power supply

Description	Digi-Key Part No.	Price Each	TechTools Part No.
Programmer			
PICmicro® MCU Programmer	QW1-ND	199.00	QW1
Adapters			
40-Pin ZIF Adapter	MP-ZIF40-ND*	49.00	MP-ZIF40
18/28-Pin ZIF Adapter	MP-ZIF18/28-ND	69.00	MP-ZIF18/28
14-Pin ZIF Adapter	MP-ZIF14-ND	59.00	MP-ZIF14
12CXXX Adapter	MP-12CXXX-ND	49.00	MP-12CXXX
44-Pin PLCC Adapter	MP-PLCC44-ND	129.00	MP-PLCC44
28-Pin SOIC Adapter	MP-SOIC28-ND	129.00	MP-SOIC28
18-Pin SOIC Adapter	MP-SOIC18-ND	79.00	MP-SOIC18
8/14-Pin SOIC Adapter	MP-SOIC8/14-ND	89.00	MP-SOIC814
PIC14000 Adapter	MP-14000-ND	59.00	MP-14000
28-Pin SSOP Adapter	MP-SSOP28-ND	99.00	MP-SSOP28
18-Pin SSOP Adapter	MP-SSOP18-ND	79.00	MP-SSOP18
4 Gang Adapters for QuickWriter			
40-Pin ZIF Adapter	QW-4ZIF40/28-ND*	199.00	QW-4ZIF40/28
44-Pin PLCC Adapter	QW-4PLCC44-ND	249.00	QW-4PLCC44
28-SOIC Adapter	QW-4SOIC28-ND	249.00	QW-4SOIC28
18-Pin ZIF Adapter	QW-4ZIF18-ND	199.00	QW-4ZIF18
18-Pin SOIC Adapter	QW-4SOIC18-ND	249.00	QW-4SOIC18
8/14-Pin Narrow SOIC Adapter	QW-4SOIC8/14N-ND	249.00	QW-4SOIC8/14N
8/14-Pin Wide SOIC Adapter	QW-4SOIC8/14W-ND	249.00	QW-4SOIC8/14W

* Use with 28 and 40-Pin 14 bit dip parts.

PIC Emulators ClearView™Mathias



CVM1 supports emulation for 16C5X and 16CXX devices using Microsoft Windows™ for a complete integrated design environment. “Family” modules select 5X or XX device family, while “Member” modules select specific device. Optional timing module shows execution time and number of processor cycles. Optional 16K trace buffer module additionally provides execution history and 8 external trace inputs. Provides full emulation of program and register memory and I/O activity with unlimited hardware breakpoints. Built-in PLL oscillator generates any frequencies from 32KHz to 33MHz.

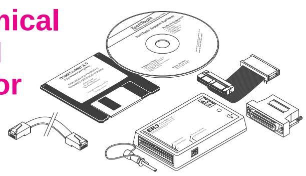
System requirements: IBM PC or compatible, VGA monitor, serial port, 3.5” disk drive, and Windows™ 3.1, Win95, Win98 or NT’.

Description	Digi-Key Part No.	Price Each	TechTools Part No.
Emulator			
ClearView Mathias 16C5x/16CXX	CVM1-ND	495.00	CVM1
Family Module			
Advanced 14 Bit Family Module w/Data Breakpoints..	CVM03F-ND	200.00	CVM03F
PIC16C5X Family Module	CVM5XF-ND	150.00	CVM5XF
PIC16CXX Family Module......	CVMXXF-ND	150.00	CVMXXF
Member Module			
PIC16C55X/62X/CE62X	CVM001M-ND	200.00	CVM001M
PIC12C508/509	CVM50XM-ND	75.00	CVM50XM
PIC16C50X/CE51X/16C505	CVM5XXM-ND	100.00	CVM5XXM
PIC12C671/672	CVM67XM-ND†	100.00	CVM67XM
PIC16C5X	CVM5XM-ND	50.00	CVM5XM
PIC16C554/556/558	CVM55XM-ND	100.00	CVM55XM
PIC16C61	CVM61M-ND	100.00	CVM61M
PIC16C62X	CVM62XM-ND	100.00	CVM62XM
PIC16C62X/61/71/84	CVM6/8M-ND	200.00	CVM6/8M
PIC16C641/642/661/662	CVM66XM-ND	200.00	CVM66XM
PIC16C715	CVM715M-ND	100.00	CVM715M
PIC16C70,71,710,711	CVM711M-ND	100.00	CVM711M
PIC16C62-65/72-74	CVM7XM-ND	200.00	CVM7XM
PIC16C66/67/76/77	CVM77M-ND	200.00	CVM77M
PIC16C773,774	CVM77XM-ND	200.00	CVM77XM
PIC16F627/628	CVMF628M-ND	200.00	CVMF628M
PIC16F83,F84,C83,C84	CVMF84M-ND	100.00	CVMF84M
PIC16F873,874,876,877	CVM87XM-ND	200.00	CVM87XM
PIC16F73/F74/F76/F77	CVMF77M-ND	200.00	CVMF77M
PIC16F870/F871	CVM871M-ND	200.00	CVM871M
Trace Buffer and Timing Module			
Mathias Timing Module	CVMT1-ND	130.00	CVMT1
Mathias Trace Buffer and Timing Module.........	CVMT2-ND	270.00	CVMT2
Kit Module			
Firmware/Logic Field Upgrade Kit.................	CVM1-FWL-ND*	55.00	CVM1-FWL
Adapter			
PIC16C712C716	ADP716-ND§	35.00	ADP716

†Requires the CVM03F Family Module §Requires Member Module CVM77M

*For use with TDE 4.0 software features of: Stack Viewing, Variable Trace Size, faster Step-out function, and faster Register Window Updates. Contains firmware V2.2 and UC13 Ver C.

ER3 EconoROM III Economical EPROM Emulator



EconoROM III is designed for quick, in-circuit firmware test cycles. If you want to stop the “burn/insert/test/remove/erase” cycle, then this is the tool for you. The ER3 will speed up your firmware development by eliminating the need to remove-erase-program and re-install EPROMs each time you test a code change. These devices plug into the EPROM socket on your target board and emulate the EPROM throughout the development process.

Features: • Integrated Low-Voltage Support • Target Voltage Sense & Measurement • External Power Option • Jumper-less Address Configuration • Up to 8Mbit Emulation in a single unit • Fast Downloads (up to 2.5 Mbit per second) • Replaces standard EPROM device during development • Connects to any Parallel Port • Auto/Manual Target Reset on download • Read-back, Verify and Self-test functions • Daisy-chain cable included • LPT cable (8 wire Modular Cable and DB25 adapter) included • Target cables (standard IDC to DIP Ribbon Cable) included • Includes 2 versions of software: 16 bit DOS version & 32 bit Win9X/NT/2000 version • QuickLoader with Full-screen editor included • Batchable loader & utilities included • Accepts Intel HEX, Tektronix HEX, Motorolla ‘S’ records and binary files • Free software updates via WEB downloads

Capacity	Cables Supplied	Speed	Digi-Key Part No.	Price Each
256Kbit/ 32K x 8	28-Pin Dip	45ns	ER3-256-ND	179.00
512Kbit/ 64K x 8	28-Pin Dip	45ns	ER3-512-ND	239.00
1Mbit/ 128K x 8	28 & 32-Pin Dip	45ns	ER3-1M-ND	299.00
4Mbit/ 512K x 8	28 & 32-Pin Dip	45ns	ER3-4M-ND	399.00
8Mbit/ 1M x 8	28 & 32-Pin Dip	45ns	ER3-8M-ND	499.00

FR3 FlexROM III FLASH, EPROM and SRAM Emulator

FlexROM III emulators provide engineers with a fast flexible development tool for any Embedded project that uses an external FLASH, EPROM or SRAM device. The FR3 increases productivity by elimination the “burn/insert/test/erase” cycle and by downloading firmware code or data into the emulator at a fast 2.5 Mbits per second.

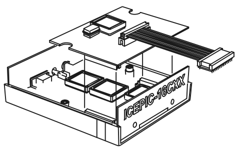
Features: • Active Cable Modules (ACM™) contain Target interface and Control Logic • Provides adaptability to new Target Technologies • Hardware Instrumentation: Target Voltage Measurement, Address Snap-Shot Circuit, Address Match & Trigger Circuit • Reverse Voltage Protection • Adjustable Timing Parameters • Integrated Low-Voltage Support • External Power Option • Jumper-less Address Configuration • Up to 256Mbit/32MByte Emulation in a single unit • Replaces standard EPROM, FLASH, or SRAM device during development • Emulates up to 45ns devices • TARGET random access Read/Write capability • HOST random access Read/Write capability • Auto/Manual Target Reset on download • Downloads up to 2.5 Mbit per second • Read-back, Verify and Self-test functions • Connects to any Parallel Port • All sizes and speeds can be Daisy-chained together • Daisy-chain cable included • Mini-clip cable included for Reset connection • LPT cable included • Target cable(s) included • Includes 2 versions of software: 16 bit DOS version & 32 bit Win9X/NT/2000 version • QuickLoader with Full-screen editor included • Batchable loader & utilities included • Accepts Intel HEX., Tektronix HEX, Motorolla ‘S’ records and binary files • Free software updates via WEB downloads

Size	Organization	Speed	Digi-Key Part No.	Price Each
*Base Unit**				
1 Mbit	128Kx8/64Kx16	45ns	FR3-1M-ND	279.00
4 Mbit	512Kx8/256Kx16	45ns	FR3-4M-ND	379.00
8 Mbit	1Mx8/512Kx16	45ns	FR3-8M-ND	529.00
16 Mbit	2Mx8/1Mx16	45ns	FR3-16M-ND	679.00

*Base Unit requires at least one ACM™ target interface

Description	Digi-Key Part No.	Price Each
Active Cable Module (ACM™)		
8 Bit Interface with DIP28 and DIP32 Cable	ACM-8-ND	120.00
16 Bit Interface with DIP40 Cable	ACM-16-ND	120.00

ICEPIC and ICEPIC2 PIC Emulators



ICEPIC and ICEPIC2 are fully modular, real time, in-circuit emulator systems, for use with Microchip 12CXX, 16CXX, and 17CXX processors, using interchangeable ‘personality daughterboards’ which are sold separately. Both emulators are supplied with their own 32 bit operating software, but can also be used with Microchip’s MPLAB™ development software.

System Requirements: IBM PC or compatible, VGA monitor, RS-232“C”, 3.5” disk drive, and Microsoft Windows 3.1, Win 95, Win 98, Win 2000, or NT.

Both ICEPIC & ICEPIC2 are supplied as a complete system with power supply, cables, manual and a copy of Microchip’s MPASM assembler. They both use the same windows software user operating environment (IDE) with a comprehensive GUI under Microsoft Windows software (also MPLAB™).

The emulator system is configured to handle the appropriate PIC microcontroller according to the personality daughter boards which are ordered separately. These daughter boards configure the emulator to handle specific devices from a wide range of PIC microcontrollers. This enables the user to adapt their ICEPIC system to support new PIC processors as they became available.

Features	ICEPIC	ICEPIC2
Real-Time Emulation	32KHz to 20 MHz	32KHz to 33 MHz
Device Emulated	12C, 16C	12C, 16C, 17C
Runs Under MPLAB	Yes	Yes
Source Level Debug	Yes	Yes
“C” Source Level Debug	Yes	Yes
Real Time Trace	No	Yes
Time Stamp	Yes	Yes
Freeze Mode	Yes	Yes
Break Points	Unlimited	Unlimited
Stack Breaks	Yes	Yes
WDT Breaks	Yes	Yes
Stack View	Yes	Yes
Custom Watch	Yes	Yes
Assembler Support	MPASM	MPASM
Communications	RS-232“C”	RS-232“C”

Description	Digi-Key Part No.	Price Each
ICEPIC Emulators		
ICEPIC Emulator System	ICEPIC-ND	490.00
ICEPIC2 Emulator System...................	ICEPIC2-ND	820.00
ICEPIC Daughter Boards		
12C671, 16C672.............................	DB12C67X-ND	335.00
12C508/509, 16C54/55/56/57/58, 16C505 ..	DB5XA-ND	285.00
16C554, 16C556, 16C558	DB55X-ND	327.87
16C620, 16C621, 16C622	DB62X-ND	335.00
16C641, 16C642, 16C661, 16C662..........	DB66X-ND	400.00
16C61, 16C71, 16C710, 16C711	DB711-ND	335.00
16C715	DB715-ND	335.00
16C62/63/64/65/72/73/74..................	DB74A-ND	400.00
16C66, 16C67, 16C76, 16C77	DB77-ND	400.00
16C772, 16C773, 16C774	DB77X-ND	335.00
16C84, 16F83, 16F84........................	DB84A-ND	335.00
16F872/873/874/876/877	DB877-ND	335.00
17C42/43/44, 17C752/756 (ICEPIC2 Only) ..	DB756-ND	335.00
16F628	DBF628-ND	335.00
16F73, 16F74, 16F76, 16F77	DBF77-ND	400.00
16F870/71.....................................	DBF871-ND	335.00
Accessories		
44-Pin PLCC Adapter (For emulation of 16Cxx In PLCC Only)	PLCC44-RF-ND	125.00

ZiLOG
Totally Logical

Real-Time, In-Circuit Emulation and Programming for only $49.95

Z86CCP01ZEM Emulator/Programmer for Zilog's Z8® Microcontrollers with up to 8K Program Memory

Digi-Key Part No. **269-2002-ND**
(See Z8 chart for applicable devices.)

GENERAL DESCRIPTION: Zilog's in-circuit emulator/programmer is an interactive, Windows™ based development tool providing a real-time environment for emulation and debugging, which includes a full-featured macro cross assembler to enhance programmer productivity. The Z86CCP01ZEM is a member of Zilog's ICEBOX™ product family of in-circuit emulators providing support for the Z8 microcontrollers. The emulator provides essential timing and I/O circuitry to simplify user emulation of the prototype hardware and software product. The Z8 CCP emulator provides users with a hardware platform to develop and debug software in a real-time environment. In contrast, software simulators provide significantly slower operation making them less practical for code development. The Z8 CCP emulator can be connected to a serial port (COM1, COM2, COM3, and COM4) of the host computer and uses Zilog Developer Studio (ZDS).**Z8 CCP Emulator Kit Contents:** Circuit Board: CMOS Z86C9320VSC, 20MHZ CMOS Z86C5020FSE ICE Chip, 8K x 8 Static RAM (for Code Memory) 18-Pin DIP ZIF Programming Socket, Holes Available for 28/40-Pin ZIF Programming Sockets, Sockets for 28/40-Pin Target Cables, 25-pin RS-232C Interface Connector: 18-Pin DIP Target Cable, Power Cable **Documentation:** Emulator User's Manual ***NOTE:*** *Power Supply RS-232C not included with Z86CCP01ZEM (recommended wall transformer T404-ND)* **FEATURES:** • In-Circuit Debug Emulation • Real-Time Emulation • Z8 GUI ZDS Emulator Software • Window-Based User Interface • On-Line Help • One-Time Programmable (OTP) Support • Selectable Baud Rates: 9600 to 57.6 Kbps • Bisync Error-Correcting Communications Protocol • Source-Level Debugging • Symbolic Disassembly in the Debug Window • Zilog Developer Studio (ZDS): – ZMASM, – Structured Assembly and Data Code, – Source-Level Debug Support, – Built-In Register Equates, – Linker, – Windows 95TM Integrated Editor

SPECIFICATIONS: Operating Temperature: 20°C ± 10°C **Supply Voltage:** +7.5 VDC to 10.0 VDC **Minimum Emulation Speed:** 1 MHz internal SCLK **Maximum Emulation Speed:** 6 MHz internal SCLK12 MHz external Crystal (shipped with 8 MHZ crystal) **Operating Humidity:** 10-90% RH (non-condensing) **Power Requirements:** +8.0 VDC @ 0.5A typical, 0.8A max. **Dimensions:Width:** 7.0 in. (17.7 cm) **Length:** 9.0 in. (22.9 cm) **Height:** 0.9 in. (2.3 cm) **Serial Interface :**RS-232C @ 9600, 19200 (default), 28800, or 57600 Baud

Z8® Series Microcontrollers

Z8 MCU Family

Overview: Zilog MCU products are targeted for cost-sensitive, high-volume applications including consumer, automotive, security, and HVAC. One-time programmable (OTPs) for prototyping as well as volume production where time to market or code flexibility is critical. A variety of packaging options are available. The same on-chip peripherals are used across the MCU product line with the primary differences being the amount of ROM/RAM, number of I/O lines present, and packaging/temperature ranges available. This allows code written for one MCU device to be easily ported to another family member.

Features: • **General-Purpose Register (GPR) File Architecture:** Every RAM register acts like an accumulator, speeding instruction execution and maximizing coding efficiency. Working register groups allow fast context switching. • **Flexible I/O:** I/O byte, nibble, and/or bit programmable as inputs or outputs. Outputs are software programmable as open-drain or push-pull on a port basis. Inputs are Schmitt-triggered with auto latches to hold unused inputs at a known voltage state. • **Analog Inputs:** Three input pins are software programmable as digital or analog inputs. When in the analog mode, two comparator inputs are provided with a common reference input. • **Timer/Counter (T/C):** The T/C consists of a programmable 6-bit prescaler and 8-bit downcounter, with maskable interrupt upon end-of-count. • **Interrupts:** There are six vectored interrupt sources with software-programmable enable and priority for each of the six sources. • **Watch-Dog Timer (WDT):** An internal WDT circuit is included as a fail-safe mechanism so that if software strays outside the bounds of normal operation, the WDT will timeout and reset the MCU. • **Auto Reset:** All family devices have internal Power-On Reset. • **Low-EMI Operation:** Mode is programmable via software or as a mask option. This new option provides for reduced radiated emission via clock and output drive circuit changes. • **Low-Power:** CMOS with two standby modes; STOP and HALT. • **Full Z8 Instruction Set:** Forty-eight basic instructions, supported by six addressing modes with the ability to operate on bits, nibbles, bytes, and words.

ACCESSORY KIT

The Z86CCP00ZAC is the accessory kit for the Z86CCP01ZEM. The kit contains all accessories to fully populate and operate all functions of the Z86CCP01ZEM.

KIT CONTENTS: • 28-Pin DIP ZIF Socket • 28-Pin Target Connector Cable • 40-Pin DIP ZIF Socket • 40-Pin Target Connector Cable • RS-232 Cable • Power Cable

Memory Size Eprom	Memory Size Ram	I/O Lines	Oscillator Type External	Freq. Range Min./Max.	Supply Voltage Range	Operating Temp. (°C)	Package	Req. Emulator Tools	Req. OTP Prog. Tools	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Zilog Part No.
0.5K	61	14	XTAL/RC	DC-8MHz	3.5-5.5	0-70	18-DIP	A	A	269-1012-ND	2.28	1.71	1.04	Z86E0208PSC1925
			XTAL/RC	DC-8MHz	3.5-5.5	0-70	18-SOIC	*	A, 2	269-1014-ND	2.28	1.71	1.04	Z86E0208SSC1925
			XTAL	DC-8MHz	3.5-5.5	0-70	20-SSOP	—	—	269-3069-ND	2.49	1.87	1.12	Z86E0208HSC1925
			XTAL/RC	DC-8MHz	4.5-5.5	-40-105	18-DIP	A	A	269-1011-ND	2.49	1.87	1.14	Z86E0208PEC1925
			XTAL/RC	DC-8MHz	4.5-5.5	-40-105	18-SOIC	*	A, 2	269-1013-ND	2.49	1.87	1.14	Z86E0208SEC1925
			XTAL	DC-8MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3068-ND	2.73	2.05	1.24	Z86E0208HEC1925
1K	125	14	XTAL	DC-12MHz	4.5-5.5	0-70	18-DIP	A	A	269-1095-ND	3.54	2.66	1.57	Z86E0412PSC1866
			RC	DC-12MHz	4.5-5.5	0-70	18-DIP	A	A	269-1096-ND	3.54	2.66	1.57	Z86E0412PSC1903
			XTAL	DC-12MHz	4.5-5.5	0-70	18-SOIC	*	A, 2	269-1099-ND	3.54	2.66	1.57	Z86E0412SSC1866
			XTAL	DC-12MHz	4.5-5.5	0-70	20-SSOP	—	—	269-3076-ND	3.75	2.82	1.67	Z86E0412HSC1866
			RC	DC-12MHz	4.5-5.5	0-70	20-SSOP	—	—	269-3077-ND	3.75	2.82	1.67	Z86E0412HSC1903
			XTAL	DC-12MHz	4.5-5.5	-40-105	18-DIP	A	A	269-1093-ND	3.90	2.93	1.73	Z86E0412PEC
			XTAL	DC-12MHz	4.5-5.5	-40-105	18-SOIC	*	A, 2	269-1097-ND	3.90	2.93	1.73	Z86E0412SEC
			XTAL	DC-12MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3074-ND	4.14	3.11	1.84	Z86E0412HEC1866
			RC	DC-12MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3075-ND	4.14	3.11	1.84	Z86E0412HEC1903
2K	125	14	XTAL	DC-12MHz	4.5-5.5	0-70	18-DIP	A	A	269-1025-ND	4.35	3.27	1.93	Z86E0812PSC1866
			RC	DC-12MHz	4.5-5.5	0-70	18-DIP	A	A	269-1026-ND	4.35	3.27	1.93	Z86E0812PSC1903
			XTAL	DC-12MHz	4.5-5.5	0-70	18-SOIC	*	A, 2	269-1029-ND	4.35	3.27	1.93	Z86E0812SSC1866
			RC	DC-12MHz	4.5-5.5	0-70	20-SSOP	—	—	269-3089-ND	4.53	3.40	2.01	Z86E0812HSC1903
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-DIP	A	A, 3	269-1053-ND	6.39	4.80	3.22	Z86E3116PSC
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-SOIC	*	A, 3, 4	269-1055-ND	6.39	4.80	3.22	Z86E3116SSC
			XTAL	DC-12MHz	4.5-5.5	-40-105	18-DIP	A	A	269-1023-ND	4.77	3.58	2.12	Z86E0812PEC
			XTAL	DC-12MHz	4.5-5.5	-40-105	18-SOIC	*	A, 2	269-1027-ND	4.77	3.58	2.12	Z86E0812SEC
			RC	DC-12MHz	4.5-5.5	-40-105	18-SOIC	*	A, 2	269-1028-ND	4.77	3.58	2.12	Z86E0812SEC1903
			XTAL	DC-12MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3086-ND	5.01	3.76	2.23	Z86E0812HEC1866
			RC	DC-12MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3087-ND	5.01	3.76	2.23	Z86E0812HEC1903
			XTAL/RC	DC-16MHz	4.5-5.5	-40-105	28-DIP	A	A, 3	269-1052-ND	7.05	5.29	3.35	Z86E3116PEC
			XTAL/RC	DC-16MHz	4.5-5.5	-40-105	28-SOIC	*	A, 3, 4	269-1054-ND	7.05	5.29	3.35	Z86E3116SEC
4K	237	24	XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-DIP	A	A, 4	269-1041-ND	7.71	5.79	3.43	Z86E3016PSC
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-SOIC	*	A, 3, 4	269-1043-ND	7.71	5.79	3.43	Z86E3016SSC
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-PLCC	A	A, 3, 4	269-1045-ND	7.71	5.79	3.43	Z86E3016VSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-DIP	A	A, 7	269-1036-ND	7.98	5.99	4.27	Z86E3312PSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-SOIC	*	A, 8	269-1103-ND	7.98	5.99	4.19	Z86E3312SSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-PLCC	*	A, 9	269-1104-ND	7.98	5.99	4.16	Z86E3312VSC
	236	32	XTAL/RC	DC-16MHz	3.5-5.5	0-70	40-DIP	A	A, 3	269-1072-ND	9.18	6.89	4.42	Z86E4016PSC
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	44-PLCC	*	A, 3, 6	269-1074-ND	9.18	6.89	4.42	Z86E4016VSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	40-DIP	A	A, 10	269-1037-ND	9.75	7.32	4.56	Z86E4312PSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PLCC	*	A, 11	269-1038-ND	9.75	7.32	4.32	Z86E4312VSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PQFP	*	A, 3, 16	269-1108-ND	10.17	7.63	4.95	Z86E4312FSC
			XTAL/RC	DC-16MHz	4.5-5.5	0-70	44-PQFP	*	A, 3, 15	269-1107-ND	9.57	7.18	4.42	Z86E4016FSC
	237	24	XTAL/RC	DC-16MHz	4.5-5.5	-40-105	28-DIP	A	A, 4	269-1040-ND	8.49	6.37	3.77	Z86E3016PEC
	236	32	XTAL/RC	DC-16MHz	4.5-5.5	-40-105	40-DIP	A	A, 3	269-1071-ND	10.08	7.56	4.87	Z86E4016PEC
8K	237	24	XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-SOIC	*	A, 8	269-1047-ND	9.72	7.29	4.32	Z8673312SSC
	237	24	XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-DIP	A	A, 7	269-1112-ND	9.72	7.29	4.32	Z8673312PSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PLCC	*	A, 11	269-1048-ND	11.28	8.46	5.01	Z8674312VSC
	236	32	XTAL	DC-12MHz	4.5-5.5	0-70	40-DIP	B	B	269-1033-ND	18.93	14.20	8.41	Z86E2116PSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	40-DIP	A	A, 10	269-1115-ND	11.28	8.46	5.01	Z8674312PSC
	236	32	XTAL	DC-16MHz	4.5-5.5	0-70	44-PLCC	*	B, 12	269-1102-ND	18.93	14.20	8.41	Z86E2116VSC

* Zilog's emulators support this part, but the in-circuit target cable is configured for DIP only. For designs that require a surface mount package, see logic system adapters in the manufacturers index.

(Continued)

Z8® Series Microcontrollers *(Cont.)*

Memory Size		I/O	Oscillator Type	Freq. Range	Supply Voltage	Operating		Req. Emulator	Req. OTP Prog.	Digi-Key	Price Each			Zilog
Eprom	Ram	Lines	External	Min./Max.	Range	Temp. (°C)	Package	Tools	Tools	Part No.	1	25	100	Part No.
16K	237	24	XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-DIP	C	C, 7	269-1105-ND	12.84	9.63	6.03	Z86E3412PSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	40-DIP	C	C, 10	269-1034-ND	14.43	10.83	6.41	Z86E4412PSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PLCC	*	C, 11	269-1046-ND	14.43	10.83	6.41	Z86E4412VSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PQFP	*	C, 16	269-1109-ND	14.82	11.12	6.59	Z86E4412FSC
	236	32	XTAL	DC-16MHz	4.5-5.5	0-70	44-PQFP	*	B, 14	269-1110-ND	23.01	17.26	10.23	Z86E6116FSC
32K	236	32	XTAL	DC-16MHz	4.5-5.5	0-70	44-PQFP	*	B, 14	269-1111-ND	29.22	21.92	12.99	Z86E6316FSC

Emulators/Programmers

Key	Description	Digi-Key Part No.	Price Each	Zilog Part No.
A	Z8 Emulator/Programmer Board	269-2002-ND	49.95	Z86CCP01ZEM

OTP Programming Adapters

Key	Description	Digi-Key Part No.	Price Each	Zilog Part No.
2	18 Pin SOIC Adapter	269-2006-ND	95.00	Z86E0700ZDP
3	Z8 Accessory Kit (28-DIP, 40-DIP) for Z86CCP01ZEM	269-2001-ND	46.43	Z86CCP00ZAC
6	44 Pin PLCC Adapter	269-2008-ND	74.83	Z86E4001ZDV
7	28 Pin Dip Adapter	269-2009-ND	35.10	Z86E3400ZDP
8	28 Pin SOIC Adapter	269-2010-ND	52.65	Z86E3400ZDS
14	44 Pin PQFP to 40 Dip Adapter	269-2021-ND	198.00	Z86E2101ZDF
15	44 Pin PQFP to 40 Dip Adapter	269-2022-ND	118.83	Z86E4001ZDF

eZ80 - *The Next Generation*

EZ80190AZ050EC AND EZ80190AZ050SC

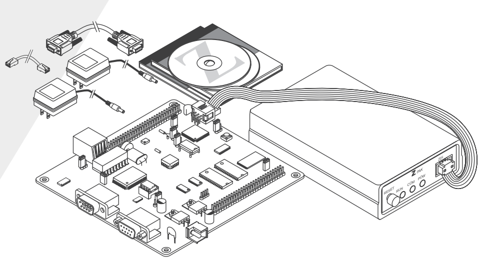
Just as the Z80 revolutionized the semiconductor industry, the next generation eZ80 is revolutionizing the way that communications are happening today. This elegant system-on-a-chip can serve web pages over a TCP/IP network, allowing easy system monitoring and control, effortless processor code updates, and system compatibility. This solution enables any browser with access to your network the ability to control and monitor a network application. The eZ80 executes Z80 code four times faster than traditional Z80s at the same clock speed, and can operate at speeds up to 50MHz. Unlike most 8-bit microprocessors, which can only address 64KB, the eZ80 can address 16MB without a Memory Management unit. The eZ80 Webserver also features an Embedded Internet Software Suite that enables the transmission and reception of HTML form data and the dynamic generation of web pages. **FEATURES:** • 50MHz Processor • Multiply and Accumulate Engine • 16MB Linear Addressing • 3.3V Operation • 2 DMA Channels • Universal ZiLOG Interface (selectable UART, IIC, SPI) • 6 PRTs with Prescalers • 8KB SRAM • 32-Bit GPIO with Interrupt Support • On-Chip Oscillator • Optimized Pipeline Architecture • ZiLOG Debug Interface

EZ801900110ZCO

The eZ80190 Webserver evaluation board is a general-purpose platform that allows the designer to evaluate the capabilities and operation of the eZ80190 Webserver device. It includes: eZ80 microprocessor operating at speeds up to 50MHz. **FEATURES:** • 1MB SRAM (15ns access time) • 1MB of user-programmable Flash, expandable to 4MB • 10BaseT Ethernet Interface (Realtek RTL8019AS) • 2 - DB9 RS232 Connectors • Real-Time Clock with Battery Back-up • 2 - Expansion Headers: GPIO, System Bus and Memory Interface

WEBSERVER DEVELOPER'S KIT CONTENTS:

• eZ80 Evaluation Board • ZPAK Emulator • Ethernet Cable and Power Supplies Software • Tools Contents: Royalty-Free TCP/IP Stack and OS • Ethernet and Serial Drivers • Web File to C-Converter • Flash Code • C-Compiler • ZiLOG Developer's Studio IDE • Complete Documentation **FEATURES:** • Quick Start Guide • Technical Documentation CD-ROM • Evaluation Board User's Manual



Description	Package	Digi-Key Part No.	Price Each			Zilog Part No.
			1	25	100	
Webserver IC, Ext. Temperature	100-VQFP	269-3123-ND	24.69	18.52	10.83	EZ80190AZ050EC
Webserver IC	100-VQFP	269-3124-ND	21.48	16.11	9.42	EZ80190AZ050SC
Webserver Evaluation Board	—	269-3121-ND	399.00	—	—	EZ801900110ZCO
Webserver Developer's Kit	—	269-3122-ND	799.00	—	—	EZ801900210ZCO

Z8Plus™ Microcontrollers

Employing the experience gained from the industry-standard Z80 and Z8 cores, the Z8Plus offers increased functionality, significantly higher performance, lower power requirements, and greater cost savings over other 8-bit microcontrollers. The Z8Plus is designed to be easy to use, even for designers who have never used a microcontroller before.

With single-cycle execution, powerful I/O capabilities and register-to-register architecture, the Z8Plus offers state-of-the-art flexibility and freedom for any designer in search of a low-cost solution for a variety of microcontroller applications.

The Z8Plus core offers several significant advantages compared to the current Z8 core. Foremost is performance improvement due to a reduced system clock division and a fixed instruction cycle time. The improvement is nearly 50%, depending upon instruction mix. For example, a Z8Plus-based part at 10MHz has performance comparable to a 16MHz part in production today. This, along with significant design improvements, leads to lower power and lower noise operation.

The Z8PE002 and Z8PE003 microcontrollers are the newest members of the popular Z8E001 Z8 Plus 8-bit microcontroller family. New features include voltage brown-out protection and power-on reset. Additionally, the "RESET" pin has been replaced with a general purpose I/O pin and oscillator circuitry to support RC configurations. These new parts are targeted at customers who require a powerful, yet small OTP microcontroller for use in general purpose applications.

EMULATOR/PROGRAMMER

FEATURES: • In-Circuit Program Debug Emulation • Real-Time Emulation • ZDS Emulator Software • Window-Based User Interface • On-Line Help • One-Time Programmable (OTP) Support • Selectable Baud Rates: 9600 to 57.6 Kbps • Bisync Error-Correcting Communications Protocol

SPECIFICATIONS: OPERATING TEMPERATURE: 20°C ± 10ºC **POWER REQUIREMENT:** +9.0 VDC @ 0.5A Minimum (Typical). **DIMENSIONS:** • Width: 6.75 in. (17.15 cm) • 7.50 in. (19.05 cm) • 0.90 in. (2.30 cm). **SERIAL INTERFACE:** RS-232C @ 9600, 19200 (default), 28800, or 57600 Baud

HOST COMPUTER: Minimum Requirements: IBM PC (or 100% Compatible) 386-Based Machine: • 33 MHz • 4 MB RAM • VGA Video Adapter • Hard Disk Drive (2.5 MB Free Space) • 3.5-inch, High-Density (HD) Floppy Disk Drive • RS-232C Com Port • Mouse or Pointing Device • Microsoft Windows 3.1

KIT CONTENTS (One of Each): Z8M001 Emulator Board; • **Cable/Pods:** 18-Pin Emulation Pod Cable; 9-Pin M-F Serial Cable (6 ft.) • **Host Software:** Z8 Graphical User Interface (GUI); ZiLOG Macro Cross Assembler (ZMASM)/ZiLOG Developer Studio (ZDS) • **Documentation:** ZiLOG 1999 Technical Library CD ROM, which contains Z8 device data sheets, user manuals, application notes; Z8M001 Emulator User's Manual

Memory Size		I/O	Oscillator Type	Frequency Range	Supply Voltage	Operating		Required Emulator	Required OTP Programming	Digi-Key	Price Each			Zilog
Eprom	Ram	Lines	External	Min/Max	Range	Temp. (°C)	Package	Tools	Tools	Part No.	1	25	100	Part No.
512	32	13	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 – 70	18-DIP	D	D	269-1117-ND	2.10	1.93	1.11	Z8E00010PSC
1K	64	13	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 – 70	18-DIP	D	D	269-1121-ND	2.64	2.42	1.25	Z8E00110PSC
							18-SOIC	*	D, 2	269-1123-ND	2.64	2.42	1.25	Z8E00110SSC
					4.5 - 5.5	-40 – 105	18-DIP	D	D	269-1120-ND	2.91	2.67	1.36	Z8E00110PEC

Z8PE002 / Z8PE003 Series

Eprom	Ram	I/O Lines	Oscillator Type External	Frequency Range Min/Max	Supply Voltage Range	Operating Temp. (°C)	Package	Required Emulator Tools	Required OTP Programming Tools	Digi-Key Part No.	1	25	100	Zilog Part No.
512	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 – 70	18-DIP	D	D	269-1130-ND	2.25	2.07	1.17	Z8PE002PZ010SC
							20-SSOP	*	D, 17	269-1132-ND	2.43	2.23	1.27	Z8PE002HZ010SC
					4.5 - 5.5	-40 – 105	20-SSOP	*	D, 17	269-1135-ND	2.67	2.45	1.49	Z8PE002HZ010EC
1K	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 – 70	18-DIP	D	D	269-1136-ND	3.12	2.86	1.57	Z8PE003PZ010SC
							18-SOIC	*	D, 2	269-1137-ND	3.12	2.86	1.57	Z8PE003SZ010SC
							20-SSOP	*	D, 17	269-1138-ND	3.30	3.03	1.73	Z8PE003HZ010SC
					4.5 - 5.5	-40 – 105	18-DIP	D	D	269-1139-ND	3.42	3.14	1.73	Z8PE003PZ010EC
							18-SOIC	*	D, 2	269-1140-ND	3.42	3.14	1.73	Z8PE003SZ010EC

Emulator/Programmer†

Key	Description	Digi-Key Part No.	Price Each	Zilog Part No.
D	Z8 Plus Emulator/Programmer (Power supply sold separately T405-P5P-ND recommended)	269-2033-ND	167.78	Z8ICE001ZEM

† For OTP programming adapters, please refer to Z8 Series.

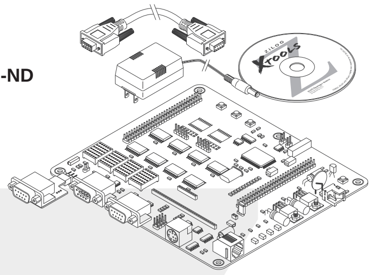
* Zilog's emulators support this part, but the in-circuit target cable is configured for DIP only. For designs that require a surface mount package, accommodations will have to be made to use the emulator for in-circuit DIP emulation.

ZiLOG Totally Logical

NEW! Z8 Encore!™ Flash MCU

Development Kit for only $49.95 Digi-Key Part No. 269-3125-ND

Limited Time Offer ($199.00 Reg.)



The Z8 Encore! Development Kit allows users to become familiar with the hardware and software tools available for the family of Z8 Encore! microcontrollers.

This kit consists of the Z8 Encore! evaluation board that supports and enhances the features of the Z8 Encore! and software development tool kit that allows users to start writing application software.

It also contains all supporting documents.

Kit Contents:

Hardware: • Evaluation board, Z8 Encore! Target Module interface board • RS-232 DB9 serial cable • 9VDC universal power supply
Software: • ZDS II-Z8 Encore! IDE with ANSI C-Compiler • Sample code • Device driver software

CD-ROM: • II quick start guide ZDS • Development kit user manual • ZDS II-IDE user manual • eZ8 CPU user manual • Product specifications and briefs • Applications notes • Flyer • Product linecard

NEW! Z8 Encore!™ Flash Microcontrollers

Zilog redefines 8-bit with the new Z8 Encore! family of flash microcontrollers. Featuring flash memory and the high-performance register-to-register architecture, Z8 Encore! MCU accelerates design development while reducing total system cost. The same CPU core and peripheral interfaces ensure code compatibility across the entire family. Incorporated into new designs, or upgrading from the existing Z8 architecture, the Z8 Encore! **Features**: • Program Memory Type - Flash • On-Chip Special Features - POR, DMA • WDT • COMM Interfaces - SPI, I2C, 2 UART • Operating Voltage - 3.0 - 3.6V • Speed (20MHz)

Memory Size		I/O				Timers		Digi-Key	Price Each			Zilog
Program	8	Pins	Interrupts	A/D	PWM	16-Bit	Package	Part No.	1	25	100	Part No.
16K	2K	31	23	8-Ch., 10-Bit	3	3	44-LQFP	269-3127-ND	9.18	6.89	4.08	Z8F1601AN020SC
							40-DIP	269-3128-ND	9.24	6.93	4.10	Z8F1601PM020SC
							44-PLCC	269-3129-ND	9.24	6.93	4.10	Z8F1601VN020SC
		46	24	12-Ch., 10-Bit	4	4	64-LQFP	269-3130-ND	9.60	7.20	4.26	Z8F1602AR020SC
							68-PLCC	269-3131-ND	9.69	7.27	4.30	Z8F1602VS020SC
24K	2K	31	23	8-Ch., 10-Bit	3	3	44-LQFP	269-3132-ND	10.59	7.95	4.71	Z8F2401AN020SC
							40-DIP	269-3133-ND	10.65	7.99	4.73	Z8F2401PM020SC
							44-PLCC	269-3134-ND	10.65	7.99	4.73	Z8F2401VN020SC
		46	24	12-Ch., 10-Bit	4	4	64-LQFP	269-3135-ND	11.01	8.26	4.89	Z8F2402AR020SC
							68-PLCC	269-3136-ND	11.10	8.33	4.93	Z8F2402VS020SC
32K	2K	31	23	8-Ch., 10-Bit	3	3	44-LQFP	269-3137-ND	11.31	8.49	5.02	Z8F3201AN020SC
							40-DIP	269-3138-ND	11.37	8.53	5.05	Z8F3201PM020SC
							44-PLCC	269-3139-ND	11.37	8.53	5.05	Z8F3201VN020SC
		46	24	12-Ch., 10-Bit	4	-/4	64-LQFP	269-3140-ND	11.73	8.80	5.21	Z8F3202AR020SC
							68-PLCC	269-3141-ND	11.82	8.87	5.25	Z8F3202VS020SC
48K	4K	31	23	8-Ch., 10-Bit	3	3	44-LQFP	269-3142-ND	12.72	9.54	5.65	Z8F4801AN020SC
							40-DIP	269-3143-ND	12.78	9.59	5.68	Z8F4801PM020SC
							44-PLCC	269-3144-ND	12.78	9.59	5.68	Z8F4801VN020SC
		46	24	12-Ch., 10-Bit	4	4	64-LQFP	269-3145-ND	13.14	9.86	5.84	Z8F4802AR020SC
							68-PLCC	269-3146-ND	13.23	9.93	5.88	Z8F4802VS020SC
		60	24	12-Ch., 10-Bit	4	4	80-QFP	269-3147-ND	13.53	10.15	6.01	Z8F4803FT020SC
64K	4K	31	23	8-Ch., 10-Bit	3	3	44-LQFP	269-3148-ND	14.13	10.60	6.29	Z8F6401AN020SC
							40-DIP	269-3149-ND	14.19	10.65	6.31	Z8F6401PM020SC
							44-PLCC	269-3150-ND	14.19	10.65	6.31	Z8F6401VN020SC
		46	24	12-Ch., 10-Bit	4	4	64-LQFP	269-3151-ND	14.55	10.92	6.47	Z8F6402AR020SC
							68-PLCC	269-3152-ND	14.64	10.98	6.51	Z8F6402VS020SC
		60	24	12-Ch., 10-Bit	4	4	80-QFP	269-3153-ND	14.94	11.21	6.65	Z8F6403FT020SC

NEW! eZ80™ Webserver-i Development Kit

The eZ80 Webserver-i Development Kit allows the user to experience the capability and operation of the eZ80L92 device in its entirety. All the tools necessary are included to begin an embedded system design immediately. The kit's development platform features the eZ80 Webserver-i E-NET Module, which is powered by the eZ80L92 microprocessor that operates at speeds up to 50MHz. This combination yields the high performance required for rapid development and deployment.

Features:
• eZ80 Webserver Development Platform • eZ80 Webserver-i E-NET Module • eZ80 Webserver-i Development Kit User Manual • eZ80 Webserver-i Quick Start Guide • ZPAK II Debug Interface Module • ZDS II with C-Complier Software and Documentation (CD-ROM) • Ethernet Hub • eZ80 Webserver-i Software and Documentation (CD-ROM) • International Power Supply (110/220V) • Cables

Specifications:
• Communications Controller: DMA, I2C, SPI, UART • Core/CPU Used: eZ80 • I/O Lines: 24 • WDT: Yes • 16-Bit Timers: 6 • Operating Voltage: 3.3V

		Digi-Key	Price Each			Zilog
Description	Package	Part No.	1	25	100	Part No.
eZ80 Development Kit	100-LQFP	269-3165-ND	799.00	—	—	EZ80L920210ZCO
Webserver-i Ethernet Module		269-3166-ND	137.70	103.28	59.67	EZ80L925048MOD
50MHz Speed, Ext. Temp.	100-LQFP	269-3169-ND	18.24	13.68	8.00	EZ80L92AZ050EC
20MHz Speed, Ext. Temp.		269-3167-ND	16.59	12.45	7.28	EZ80L92AZ020EC
50MHz Speed	100-LQFP	269-3170-ND	15.87	11.91	6.96	EZ80L92AZ050SC
20MHz Speed		269-3168-ND	14.43	10.83	6.33	EZ80L92AZ020SC

NEW! eZ80 Acclaim!™ Flash Microcontrollers

eZ80F91 Development Kit

The eZ80F91 Development Kit best exemplifies the versatility and high performance of the eZ80Acclaim! MCU. The kit provides a complete set of tools to either evaluate the eZ80F91 device or to develop a variety of new applications including vending machines, point of sale, security, automation, communication, industrial control, facility monitoring and remote control.
The kit features two primary boards: the eZ80 Development Platform and the eZ80F91 Module. In addition, all the necessary hardware, software, and technical documentation are included in the kit for design to begin immediately.

KIT CONTENTS:
Hardware: • eZ80 Development Platform • eZ80F91 Module • Ethernet Hub • ZPAK II Emulator • ZDI Target Interface Module • Universal Power Supplies • Cables
Software: • ZDS II Integrated Development Environment (IDE) • ANSI C-Complier • Sample Software Projects

	Digi-Key	Price Each			Zilog
Description	Part No.	1	25	100	Part No.
Development Kit for eZ80F91	269-3154-ND	199.00	—	—	EZ80F910200ZCO
Multipurpose MCU Module	269-3155-ND	180.00	135.00	78.00	EZ80F915050MOD

eZ80F92 Development Kit

The eZ80F92 Development Kit best exemplifies the versatility and high performance of the eZ80Acclaim! MCU. The kit provides a complete set of tools to either evaluate the eZ80F92 device or to develop a variety of new applications including vending machines, point of sale, security, automation, communication, industrial control, facility monitoring and remote control.
The kit features two primary boards: the eZ80 Development Platform and the eZ80F92 Flash module. In addition, all the necessary hardware, software, and technical documentation are included in the kit for design to begin immediately.

KIT CONTENTS:
Hardware: • eZ80 Development Platform • eZ80F92 Flash Module • ZPAK II Emulator • ZDI Target Interface Module • Universal Power Supplies • Cables
Software: • ZDS II Integrated Development Environment (IDE) • ANSI C-Compiler • Sample Software Projects

	Digi-Key	Price Each			Zilog
Description	Part No.	1	25	100	Part No.
Development Kit for eZ80F92	269-3162-ND	399.00	—	—	EZ80F920200ZCO
Flash Module for eZ80F92	269-3156-ND	126.15	94.62	54.67	EZ80F920020MOD
Ethernet Module for eZ80F92	269-3157-ND	162.00	121.50	70.20	EZ80F920120MOD

Features: • 2 UARTs • SPI • I2C • IrDA • Operating Voltage: 3.0-3.6V • Temperature Range: -40°C to 105°C

Memory Size		I/O		Timers		Speed		Digi-Key	Price Each			Zilog
Program	SRAM (Bytes)	Lines	Interrupts	16-Bit	PWM	(MHz)	Package	Part No.	1	25	100	Part No.
256K	16K	32	48	4	4	50	144-LQFP	269-3161-ND	40.68	30.51	18.08	EZ80F91AZ050SC
128K	8K	24	38	6	—	20	100-LQFP	269-3158-ND	30.33	22.75	13.48	EZ80F92AZ020HC
								269-3159-ND	24.78	18.59	11.03	EZ80F92AZ020SC
64K	4K	24	38	6	—	20	100-LQFP	269-3163-ND	28.20	21.15	12.53	EZ80F93AZ020HC
								269-3164-ND	23.04	17.28	10.24	EZ80F93AZ020SC

"Connecting from Last Mile To First Mile."

PSoC™ (Programmable System on Chip) Microcontrollers

The **CY8C25122/CY8C26233/CY8C26443/CY8C26643** family of Programmable System-on-Chip (PSoC™) microcontrollers replaces multiple MCU-based system components with one single chip, programmable device. A PSoC microcontroller includes a fast CPU, Flash program memory, and SRAM data memory with configurable analog and digital peripheral blocks in a range of convenient pin-outs and memory sizes. The driving force behind this innovative Programmable System-on-Chip comes from user configurability of analog and digital arrays: the PSoC blocks.

Powerful Harvard Architecture Processor with Fast Multiply/Accumulate • M8C processor instruction set • Processor speeds to 24MHz • Register speed memory transfers • Flexible addressing modes • Bit manipulation on I/O and memory • 8x8 multiply, 32-bit accumulate **Flexible On-Chip Memory** • Flash program storage, 4K to 16K bytes, depending on device • 100,000 erase/write cycles • SRAM data storage, 128 to 256 bytes, depending on device • In-System Serial Programming (ISSP) • Partial Flash updates • Flexible protection modes • EEPROM emulation in Flash, up to 2304 bytes **Programmable System-on-Chip (PSoC) Blocks** • On-chip, user configurable analog and digital peripheral blocks • PSoC blocks can be used individually or in combination • 12 Analog PSoC blocks provide: • Up to 11-bit Delta-Sigma ADC; • Up to 8-bit Successive Approximation ADC; • Up to 12-bit Incremental ADC; • Up to 10-bit DAC • Programmable gain amplifier • Programmable filters • Differential comparators • 8 Digital PSoC blocks provide: • Multipurpose timers: event timing, real-time clock, pulse width modulation (PWM) and PWM with deadband • CRC modules • Full-duplex UARTs • SPI master or slave configuration • Flexible clocking sources for analog PSoC blocks **Programmable Pin Configurations** • Schmitt trigger TTL I/O pins • Logic output drive to 25mA with internal pull-up or pull-down resistors, High Z, or strong driver • Interrupt on pin change • Analog output drive to 40mA **Precision, Programmable Clocking** • Internal 24/48MHz Oscillator (± 2.5%, no external components) • External 32.768kHz Crystal Oscillator (optional precision source for PLL) • Internal Low Speed Oscillator for Watchdog and Sleep **Dedicated Peripherals** • Watchdog and Sleep Timers • Low Voltage Detection with user-configurable threshold voltages • On-chip voltage reference **Fully Static CMOS Devices using advanced Flash Technology** • Low power at high speed • Operating voltage from 3.0V to 5.25V • Operating voltage down to 1.0V using on-chip switch mode voltage pump • Wide temperature range: -40°C to +85°C **Complete Development Tool**s • Powerful integrated development environment (PSoC Designer) • Low-cost, in-circuit emulator and programmer

Memory Size Prom	Ram	Speed EXT Oscillator	Config-uration	Internal Osc Speed	Number I/O	Core Architecture	Temperature Range	Pin count Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
4K	256	32.768 Xtal	Flash	93.7Khz-24MHz	6	M8C	-40°C to +85°C	8-DIP	428-1424-ND	4.00	2.50	2.00	CY8C25122-24PI
8K	256	32.768 Xtal	Flash	93.7Khz-24MHz	16	M8C	-40°C to +85°C	20-DIP	428-1425-ND	5.00	3.10	2.50	CY8C26233-24PI
8K	256	32.768 Xtal	Flash	93.7Khz-24MHz	16	M8C	-40°C to +85°C	20-SSOP	428-1426-ND	5.50	3.40	2.75	CY8C26233-24PVI
8K	256	32.768 Xtal	Flash	93.7Khz-24MHz	16	M8C	-40°C to +85°C	20-SOIC	428-1427-ND	5.00	3.10	2.50	CY8C26233-24SI
16K	256	32.768 Xtal	Flash	93.7Khz-24MHz	24	M8C	-40°C to +85°C	28-DIP	428-1428-ND	5.63	3.50	2.82	CY8C26443-24PI
16K	256	32.768 Xtal	Flash	93.7Khz-24MHz	24	M8C	-40°C to +85°C	28-SSOP	428-1429-ND	6.15	3.85	3.08	CY8C26443-24PVI
16K	256	32.768 Xtal	Flash	93.7Khz-24MHz	24	M8C	-40°C to +85°C	28-SOIC	428-1430-ND	5.63	3.50	2.82	CY8C26443-24SI
16K	256	32.768 Xtal	Flash	93.7Khz-24MHz	40	M8C	-40°C to +85°C	44-TQFP	428-1431-ND	7.03	4.40	3.52	CY8C26643-24AI
16K	256	32.768 Xtal	Flash	93.7Khz-24MHz	44	M8C	-40°C to +85°C	48-DIP	428-1432-ND	7.28	4.55	3.64	CY8C26643-24PI
16K	256	32.768 Xtal	Flash	93.7Khz-24MHz	44	M8C	-40°C to +85°C	48-SSOP	428-1433-ND	6.73	4.15	3.37	CY8C26643-24PVI

CY3205-DK BASIC PSoC™ Development Kit

The **PSoC™ Development Kit** includes an In-Circuit Emulator (ICE) which consists of a base unit, cable, and power supply. The base unit is connected to the host PC via the parallel port and is included (with cable and power supply) in the Development Kit.

The ICE is driven by the Debugger subsystem of PSoC Designer. This software interface allows the user to run, halt, and single step the processor. It also allows the user to set complex event points. Event points can start and stop the trace memory on the ICE, as well as break the program execution. In addition to the Development Kit, different adapter pods are available to support the range of devices in the PSoC microcontroller family. They plug into the user's circuit board to provide the physical interface. Pods are available for low-cost expansion of the ICE capability. With each pod purchase, two matching devices are provided.

The PSoC Designer ICE also serves as a single-site device programmer. Programming Boards are devices which connect to the ICE and allow programming of Devices supported by that particular Programming Board. Each Programming Board Pod has a 5-pin programming header. This can be used for In-Circuit Serial Programming.

Pods are devices that connect to Modular cable from ICE and are needed to emulate a particular PSoC device. Comes with a PUP, a little demonstration board that you can emulate little projects on, and Feet which allows users to connect from Pod to Application for Debugging. Extra Feet and Pods can be purchased separately.

Development Kit Includes:

• In-Circuit Emulator (ICE) Base Unit • ICE Connection Cables and Power Supply • Demonstration Pup with LED bar graph for simple demonstrations • Programming Module for Dip parts • Feet for interfacing ICE to Target Board • 28-pin, Dip Emulator Pod • Free samples of the CY8C26443-24PI • CD-ROM with PSoC Designer (MCU Development Tool, Sample Projects, Documentation) • PSoC Designer: Integrated Development Environment (IDE) User Guide • Free support

System Requirements:

• 166MHZ Pentium or better (AMD Athlon or Better) • CD-ROM Driver, 128MB Ram, 100MB Free Disk Space • Parallel port, Windows 98 or Better, MSN Explorer 5.0 • Adobe Acrobat Reader

CY3202-C ImageCraft C Compiler

The Cy3202-C compiler is fully integrated into the PSoC Designer IDE. PSoC Designer supports C source level debugging. In order to activate the compiler, you must enable and upgrade. **Features:** ANSI C Compiler, Supports Inline Assembly and can Interface with Assembly Modules, Stack-Based, 7 Basic Data Types, Assemble and Linker, Math and String Libraries, C Interrupt Service Routines, Librarian.

Description	Digi-Key Part No.	Price Each	Cypress Part No.
PSoC Development Kit (for all PSoC Microcontrollers)	428-1434-ND	398.00	CY3205-DK
ImageCraft C Compiler (for all PSoC Microcontrollers)	428-1413-ND	145.00	CY3202-C

Programming Boards for use with the CY3205-DK Development Kit

Description	Works with Parts	Digi-Key Part No.	Price Each	Cypress Part No.
PSoC MCU 48-Pin Dip Programming Board	All PSoC Dip Parts	428-1435-ND	48.95	CY3205-S1
PSoC MCU 28-Pin SOIC Programming Board	CY8C26233(433)-24PVI	428-1436-ND	48.95	CY3205-S2
PSoC MCU 28-Pin SSOP Programming Board	CY8C26233(433)-24SI	428-1437-ND	61.10	CY3205-S3
PSoC MCU 48-Pin SSOP Programming Board	48-Pin SSOP Parts	428-1438-ND	76.80	CY3205-S4
PSoC MCU 44-Pin TQFP Programming Board	CY8C26643-24AI	428-1439-ND	61.10	CY3205-S5

Emulator Pod Feet, Use to Adapt Pod to Circuit Boards

Description	Works with Parts	Digi-Key Part No.	Price Each	Cypress Part No.
2 Spare PSoC Emulator Pod Feet for 8-Pin DIP	CY8C25122	428-1414-ND	50.00	CY3203-012
2 Spare PSoC Emulator Pod Feet for 20-Pin DIP	CY8C26233	428-1415-ND	50.00	CY3203-022
2 Spare PSoC Emulator Pod Feet for 28-Pin DIP	CY8C26443	428-1416-ND	50.00	CY3203-032
2 Spare PSoC Emulator Pod Feet for 48-Pin DIP	CY8C26643	428-1417-ND	65.00	CY3203-042
10 Spare PSoC Emulator Pod Feet for 20-Pin SOIC	CY8C26233	428-1418-ND	100.00	CY3203-050
10 Spare PSoC Emulator Pod Feet or 20-Pin SSOP	CY8C26233	428-1419-ND	100.00	CY3203-060
10 Spare PSoC Emulator Pod Feet or 28-Pin SOIC	CY8C26443	428-1420-ND	100.00	CY3203-070
10 Spare PSoC Emulator Pod Feet for 28-Pin SSOP	CY8C26443	428-1421-ND	100.00	CY3203-080
5 Spare PSoC Emulator Pod Feet for 48-Pin SSOP	CY8C26643	428-1422-ND	100.00	CY3203-095
5 Spare PSoC Emulator Pod Feet for 44-Pin TQFP	CY8C26643	428-1423-ND	80.00	CY3203-105

PSoC Emulator Pods for use with the CY3205-DK Development Kit

Description	# of Feet	Works with Parts	Digi-Key Part No.	Price Each	Cypress Part No.
Pod for 8-Pin DIP	1	CY8C25122	428-1403-ND	65.00	CY3201-01
Pod for 20-Pin DIP	1	CY8C26233	428-1404-ND	65.00	CY3201-02
Pod for 28-Pin DIP	1	CY8C26443	428-1405-ND	65.00	CY3201-03
Pod for 48-Pin DIP	1	CY8C26643	428-1406-ND	65.00	CY3201-04
Pod for 20-Pin SOIC	1	CY8C26233	428-1407-ND	75.00	CY3201-05
Pod for 20-Pin SSOP	1	CY8C26233	428-1408-ND	75.00	CY3201-06
Pod for 28-Pin SOIC	1	CY8C26443	428-1409-ND	75.00	CY3201-07
Pod for 28-Pin SSOP	1	CY8C26443	428-1410-ND	75.00	CY3201-08
Pod for 48-Pin SSOP	1	CY8C26643	428-1411-ND	85.00	CY3201-09
Pod for 44-Pin TQFP	1	CY8C26643	428-1412-ND	85.00	CY3201-10
Pod for 8, 20, 28 and 48-Pin DIP	1/each	CY8C25122-24PI CY8C26xxx-24PI	428-1489-ND *NEW!*	147.00	CY3206-PI
Pod for 20 and 28-Pin SOIC	2/each	CY8C26xxx-24SI	428-1490-ND *NEW!*	114.00	CY3206-SI
Pod for 20, 28 and 48-Pin SSOP	2/each	CY8C26xxx-24PVI	428-1491-ND *NEW!*	198.00	CY3206-PVI
Pod for 44-Pin TQFP	2	CY8C26643-24AI	428-1492-ND *NEW!*	104.00	CY3206-AI

CY7B923 HOTLink

The CY7B923 HOTLink Transmitter and CY7B933 HOTLink Receiver are point-to-point communications building blocks that transfer data over high-speed serial links (fiber, coax, and twisted pair). Standard HOTLink data rates range from 160-330 Mbits/second. Higher speed HOTLink is also available for high-speed applications (160-400 Mbits/second), as well as for those low-cost applications HOTLink-155 (150-160 Mbits/second operations).

Features: • Fibre-Channel compliant • IBM ESCON compliant • DVB-ASI compliant • ATM compliant • 8B/10B coded or 10-bit unencoded • Standard HOTLink: 160–330 Mbps • High-speed HOTLink 160–400 Mbps for high-speed applications • Low-speed HOTLink: 150–160 Mbps for low-cost fiber

Applications: • TTL synchronous I/O • No external phase locked-loop (PLL) components • Triple PECL 100K serial outputs • Dual PECL 100K serial inputs • Low power: 350 mW (Tx), 650 mW (Rx) • Compatible with fiber optic modules, coaxial cable, and twisted pair media • Built-In Self-Test • Single +5V supply • 28-pin SOIC/PLCC/LCC • 0.8 BiCMOS

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
Hotlink Transmitter, Std. Speed	28-PLCC	428-1298-ND	47.25	44.10	40.95	CY7B923-JC
Hotlink Transmitter, Std. Speed	28-SOIC	428-1299-ND	47.25	44.10	40.95	CY7B923-SC
Hotlink Receiver, Std. Speed	28-PLCC	428-1300-ND	47.25	44.10	40.95	CY7B933-JC
Hotlink Receiver, Std. Speed	28-SOIC	428-1301-ND	47.25	44.10	40.95	CY7B933-SC

CYPRESS
"Connecting from Last Mile To First Mile."

CY7C6XXX Series Of USB Microcontrollers

Cypress offers the industry's broadest line of USB microcontrollers, as well as a full set of development tools, supporting cost-driven applications such as keyboards and mice, as well as high-performance application like printers, scanners, xDSL modems, and digital cameras. Cypress has a wide range of solutions for Low-Speed USB applications, Full-Speed USB Applications and USB Hub Applications. Temperature range , commercial (0-70° F).

The CY7C630/1XXA is a family of 8-bit RISC One Time Programmable (OTP) microcontrollers with a built-in 1.5-Mbps USB Serial Interface Engine (SIE). The microcontroller features 35 instructions that are optimized for USB applications. In addition, the microcontroller features 128 bytes of internal RAM and either 2 or 4 Kbytes of program memory space. The Cypress USB Controller accepts a 6-MHz ceramic resonator as its clock source. This clock signal is doubled within the chip to provide a 12-MHz clock for the microprocessor.

The CY7C64013 and CY7C64113 are 8-bit One Time Programmable microcontrollers that are designed for full-speed USB applications. The instruction set has been optimized specifically for USB operations, although the microcontrollers can be used for a variety of non-USB embedded applications.

The CY7C646xx (EZ-USB FX) is Cypress Semiconductor's second-generation full-speed USB family. FX products offer higher performance and a higher level of integration than first-generation EZ-USB products. The FX builds on the EZ-USB feature set, including an intelligent USB core, enhanced 8051, 8-Kbyte RAM, and high-performance I/O. The CY7C646xx enhances the EZ-USB family by providing faster operation and more ways to transfer data into and out of the chip at very high speed.

The CY7C65100 Series offers high-performance, fixed-function Universal Serial Bus (USB) hub devices which comply with USB Specification, Revision 1.1. Up to four downstream USB ports are available to expand the USB attachment points available in your PC system. These self-contained devices require no firmware development for your design, thereby reducing the design risk associated with some microcontroller solutions. These Application-Specific Standard Products (ASSP) can improve time-to-market in a number of USB designs, including standalone hubs, motherboard hubs, and monitor hubs.

CY7C68013-56PVC (EZ-USB FX2) Single-chip integrated USB 2.0 Transceiver, Serial Interface Engine (SIE), and Enhanced 8051 Microprocessor, High Speed 480Mbits/sec. Enhanced 8051 microcontroller, and a programmable peripheral interface in a single chip. Integrated I^{2}C-compatible controller, runs at 100 or 400 kHz, 48-MHz, 24 MHz, or 12 MHz 8051 operation. Four integrated FIFOs, brings glue and FIFO inside for lower system cost. Automatic conversion to and from 16-bit buses, master or slave operation. FIFOs can use externally supplied clock or asynchronous strobes. Easy interface to ASIC and DSP ICs, up to 40 general purpose I/Os.

Memory Size Prom	Ram	Speed EXT Oscillator	Config-uration	USB Application Speed	Number I/O	Core Arch.	Temp. Range	Voltage	Pin Count Package	Digi-Key Part No.	Price Each			Cypress Part No.
											1	25	100	
Low Speed USB Microcontrollers — 4.4V to 5V														
4K	128	6-MHz Resonator	OTP	1.5-Mbps	12	M-8	0-70°C	4.4-5.0	20-SOIC	428-1313-ND	3.30	2.05	1.65	CY7C63001A-SC
4K	128	6-MHz Resonator	OTP	1.5-Mbps	16	M-8	0-70°C	4.4-5.0	24-QSOP	428-1314-ND	3.90	2.40	1.95	CY7C63101A-QC
4K	256	6-MHz Resonator	OTP	1.5-Mbps	16	M-8	0-70°C	4.4-5.0	24-SOIC	428-1315-ND	3.63	2.25	1.82	CY7C63101A-SC
3K	256	6-MHz Resonator	OTP	1.5-Mbps	10	M-8	0-70°C	4.4-5.0	16-DIP	428-1316-ND	3.23	1.98	1.62	CY7C63221A-PC
3K	256	6-MHz Resonator	OTP	1.5-Mbps	12	M-8	0-70°C	4.4-5.0	18-SOIC	428-1317-ND	3.30	2.05	1.65	CY7C63231A-SC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	32	M-8	0-70°C	4.4-5.0	40-DIP	428-1318-ND	4.28	2.65	2.14	CY7C63413-PC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	32	M-8	0-70°C	4.4-5.0	48-SSOP	428-1319-ND	4.28	2.65	2.14	CY7C63413-PVC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	32	M-8	0-70°C	4.4-5.0	48-SSOP	428-1320-ND	4.70	2.90	2.35	CY7C63513-PVC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	16	M-8	0-70°C	4.4-5.0	24-SOIC	428-1321-ND	4.13	2.55	2.07	CY7C63613-SC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	11	M-8	0-70°C	4.4-5.0	18-DIP	428-1322-ND	3.85	2.40	1.93	CY7C63723-PC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	11	M-8	0-70°C	4.4-5.0	18-SOIC	428-1323-ND	3.85	2.40	1.93	CY7C63723-SC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	17	M-8	0-70°C	4.4-5.0	24-DIP	428-1324-ND	4.13	2.55	2.07	CY7C63743-PC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	17	M-8	0-70°C	4.4-5.0	24-SOIC	428-1325-ND	4.13	2.55	2.07	CY7C63743-SC
Medium Performance Full-Speed Microcontrollers — 3.3V														
8K	256	6-MHz Xtal	OTP	12-Mbps	19	M-8	0-70°C	3.3	28-SDIP	428-1326-ND	6.65	4.15	3.33	CY7C64013-PC
8K	256	6-MHz Xtal	OTP	12-Mbps	19	M-8	0-70°C	3.3	28-SOIC	428-1327-ND	6.65	4.15	3.33	CY7C64013-SC
8K	256	6-MHz Xtal	OTP	12-Mbps	36	M-8	0-70°C	3.3	48-SSOP	428-1328-ND	7.33	4.55	3.67	CY7C64113-PVC
EZ-USB FX Full Speed USB Microcontrollers — 3.3V														
—	8K	12-MHz Xtal	Ram	12-Mbps	40	8051	0-70°C	3.3	128-PQFP	428-1310-ND	16.10	9.95	8.05	CY7C64613-128NC
—	8K	12-MHz Xtal	Ram	12-Mbps	16	8051	0-70°C	3.3	52-PQFP	428-1311-ND	13.70	8.50	6.85	CY7C64613-52NC
—	8K	12-MHz Xtal	Ram	12-Mbps	32	8051	0-70°C	3.3	80-PQFP	428-1312-ND	14.60	9.00	7.30	CY7C64613-80NC
Full Speed USB Periphal Controllers														
6K	3K	12-48 MHz Xtal	Ram	12-Mbps	32	16-Bit RISC	0-65°C	3.3	100-TQFP	428-1462-ND	10.10	6.25	5.05	SL11R
USB 2.0 (High Speed) — 3.3V														
—	8K	24-MHz Xtal	Ram	Periphal Controller 12/480-Mbps	24	8051	0-70°C	3.3	56-TSSOP	428-1332-ND	16.00	9.85	8.00	CY7C68013-56PVC
USB HUB and Integrated HUB Solutions — 3.3V														
—	—	6-MHz Xtal	OTP	12-Mbps Hub	4-port	No CPU	0-70°C	3.3	28-SOIC	428-1329-ND	5.10	3.15	2.55	CY7C65100-SC
8K	256	6-MHz Xtal	OTP	12-Mbps Hub	31 (4-port)	M-8	0-70°C	3.3	56-TSSOP	428-1330-ND	6.78	4.25	3.39	CY7C66113-PVC
8K	256	6-MHz Xtal	OTP	12-Mbps Hub	11 (7-port)	M-8	0-70°C	3.3	48-SOIC	428-1331-ND	5.60	3.50	2.80	CY7C65113-SC
USB Mass Storage Bridge														
—	256	30-MHz Xtal	Ram	Bridge 12/480-Mbps	10	—	-40-85°C	3.3	100-TQFP	428-1459-ND	12.90	8.00	6.45	ISD-300A1
USB Host/Slave Controller														
—	256	12-48 MHz Xtal	Ram	1.5-12 Mbps	8	No CPU	0-65°C	3.3	28-PLCC	428-1463-ND	8.12	6.50	5.49	SL811HS
—	256	12-48 MHz Xtal	Ram	1.5-12 Mbps	8	No CPU	0-65°C	3.3	48-TQFP	428-1464-ND	8.26	6.61	5.58	SL811HST-AC
—	256	12-48 MHz Xtal	Ram	1.5-12 Mbps	8	No CPU	0-65°C	3.3	28-PLCC	428-1460-ND	6.45	4.00	3.23	SL811S
—	256	12-48 MHz Xtal	Ram	1.5-12 Mbps	8	No CPU	0-65°C	3.3	48-TQFP	428-1461-ND	5.30	4.24	3.58	SL811ST-AC

EZ-USB Microcontrollers

The **EZ-USB** chip packs the intelligence required by a USB peripheral interface into a compact integrated circuit. A Serial Interface Engine (SIE) decodes and encodes the serial data and performs error correction, bit stuffing, and other signaling-level details required by USB, and ultimately transfers data bytes to and from the USB interface.

The internal microprocessor is enhanced 8051 with fast execution time and added features. It uses internal RAM for program and data storage, making the EZ-USB family a soft solution. The USB host downloads 8051 program code and device personality into RAM over the USB bus, and then the EZ-USB chip reconnects as the custom device as defined by the loaded code.

The EZ-USB family uses an enhanced SIE/USB interface (called the "USB Core") which has the intelligence to function as a full USB device even before the 8051. The enhanced core simplifies 8051 code by implementing much of the USB protocol itself. EZ-USB chips operate at 3.3V. This simplifies the design of bus-powered USB devices, since the 5V power available in the USB connector (which the USB specification allows to be as low as 4.4V) can drive a 3.3V regulator to deliver clean isolated power to the EZ-USB chip.

AN2131-DK001 The development kit for the EZ-USB family provides complete hardware and software solutions for accelerating the firmware and device driver development for all the members of the families. The development kits use the actual silicon for the entire development. Cypress' software utilities and example firmware allow the user to generate USB traffic in hours, not weeks!

An evaluation version of the 8051 Keil Software Tools is included in the EZ-USB Development Kits. The evaluation version of the C-Compiler lets the designer write 8051 microcontroller applications in C and still get the efficiency and speed of assembly language. Advanced features from Keil tools include the ability to single step through code. The supplied Keil tools are fully functional, but are limited in object size to 4 Kbytes.

Kit includes: EZ-USB Development Board with AN2131QC, peripheral Board for prototyping, a USB cable, and an RS-232 9-pin to 9-pin cable.

Required Tools not included: Microsoft Visual C++, WDM DDK, and Windows 98 PC

Memory Size Ram	Speed EXT Oscillator	Config.	USB Application Speed	Number I/O	Core Architecture	Temperature Range	Pin Count Pkg.	Digi-Key Part No.	Price Each			Cypress Part No.
									1	25	100	
8-KB	12MHz Xtal	Ram	12-Mbps	24	8051	-40 - 85 C	80-PQFP	428-1307-ND	11.68	7.25	5.84	AN2131QC
8-KB	12MHz Xtal	Ram	12-Mbps	18	8051	-40 - 85 C	44-PQFP	428-1306-ND	10.53	6.55	5.27	AN2131SC
8-KB	12MHz Xtal	Ram	12-Mbps	8	8051	-40 - 85 C	44-PQFP	428-1308-ND	10.13	6.25	5.07	AN2135SC
EZ-USB Xcelerator Development Kit							44-PQFP	428-1333-ND	495.00	—	—	AN2131-DK001

Developer Kit: CY3671

The development kit for the **EZ-USB FX** family provides complete hardware and software solutions for accelerating the firmware and device driver development for all the members of the families. The development kits use the actual silicon for the entire development. Cypress' software utilities and example firmware allow the user to generate USB traffic in hours, not weeks!

Devices Supported: CY7C64603-128NC, CY7C64603-52NC, CY7C64603-80NC, CY7C64613-128NC, CY7C64613-52NC, CY7C64613-80NC

Cypress includes an evaluation version of the 8051 Keil Software Tools in the CY3671 Development Kit. The evaluation version of the C-Compiler lets the designer write 8051 microcontroller applications in C and still get the efficiency and speed of assembly language. Advanced features from Keil tools include the ability to single step through code. This makes it easy to detect errors, handle source level debugging, and set breakpoints. With the ability to debug code one line at a time and to quickly compile and one-step download new code, developers have a more efficient means to complete firmware faster than using emulators. The supplied Keil tools are fully functional, but are limited in object size to 4 Kbytes.

Kit includes: EZ-USB Development Board with CY7C64613-128NC, a Peripheral Board for prototyping, a USB cable and an RS-232 9-pin to 9-pin cable.

428-1334-ND EZ-USB FX Development Board **$495.00**

Developer Kit: SL11R-DK

The SL11R from Cypress, is a low cost, full speed Universal Serial Bus (USB) RISC based Controller. The SL11R contains a 16-bit RISC processor with built-in BIOS ROM that greatly reduces firmware development time. This unique architecture provides the ability to upgrade products, in the field, without changing the peripheral hardware. The processor can execute code either from internal ROM/RAM or external DRAM, SRAM and ROM.

The SL11R-DK Developer's kit comes with the following components • HW reference design for SL11R evaluation board • Assembler/Debugger and built in emulator • Application notes, BIOS ROM information • System Software demo program source code • Generic WDM mini-port driver for WIN98/2000-object code • 2 sample chips • Email support

Kit Includes: HW reference design for SL11R evaluation board, Assembler/Debugger and built in emulator, Application notes, BIOS ROM information, System Software demo program source code, Generic WDM mini-port driver for WIN98/2000-object code, and 2 sample chips.
Devices Supported: SL11R-IDE

428-1344-ND SL11 Development Tools **$495.00**

Developer Kit: CY3650

The Cypress USB Developer's Kit is a powerful tool that enables customers to develop USB hardware and firmware with emulated Cypress USB ICs.The development system can be run in two modes. In the typical development system environment, the board is controlled through a PC-based interface. Software running on the PC facilitates debugging through breakpoints, single stepping, and display and modification of registers and data RAM. In this mode, firmware can be implemented in on-board EPROM, or downloaded to program RAM. The RAM option provides a quick and easy method for testing firmware revisions.

Devices Supported: CY7C63101A-SC

The CY3650 Development Kit includes a CY3650 USB development board, a power supply, a USB cable, an RS-232 9-pin to 9-pin cable, and a 9-pin to 25-pin adapter

428-1342-ND USB Development Kit-LO Speed, Low I/O......**$513.56**

"Connecting from Last Mile To First Mile."

Developer Kit: CY3654

CY3654 Base-Board

The CY3654 is the common base board for a variety of our M8 Series products. To emulate a specific USB device within a family, the appropriate personality board needs to be purchased (CY3654-Pxx). Each USB family will have a unique personality board. The base board (CY3654) will only work when supplemented by one of the family specific personality boards.

Personality Boards:

Cypress offers a variety of Personality Boards that accompany the CY3654 Base Board for use in specific applications. The following is a list of current offerings:

CY3654 and CY3654-P02:

Base Board and Personality Board is a development environment in support of a variety of applications such as keyboards and other low speed devices requiring more I/O. The CY3654 and CY3654-P02 is designed for use with Cypress's CY7C634XX, CY7C635XX, and CY7C636XX M8 based parts.

CY3654 and CY3654-P03:

Base Board and Personality Board is a development environment in support of a variety of applications such as full-speed peripherals, hubs, and hub plus integrated peripheral applications. The CY3654 and CY3654-P03 is designed for use with Cypress's CY7C64x13 (full-speed), CY7C65x13 and CY7C66x13 (hubs) M8 based parts.

CY3654 and CY3654-P05:

Base Board and Personality Board is a development environment in support of a variety of applications such as mice or other low speed USB peripherals. The CY3654 and CY3654-P05 is designed for use with Cypress's CY7C632XXA, and CY7C637XX M8 based parts.

Note: A Complete Development Kit consists of the Base Board plus a Personality Board. Other Personality Boards can be used with the same CY3654 Base Board. Please specify both the base-board CY3654, and Personality board CY3654-P02, when ordering this particular kit.

CY3654 Development Kit includes a CY3654 Base board, a RS-232 Cable, and a Power Supply. Personality Kits include a CY3654Px00 Personality Board, a CY3654Dx00 Applications Board, Target µC Adapters, a target Flex Cable, and application Cables.

Description	Devices Supported	Digi-Key Part No.	Price Each	Cypress Part No.
Base Board	All USB Personality Boards CY series	428-1337-ND	700.00	CY3654
Personality Board	CY7C634XX, CY7C635XX, and CY7C636XX	428-1338-ND	400.00	CY3654-P02
Personality Board	CY7C64X13 (full-speed), CY7C65X13,and CY7C66X13	428-1339-ND	720.00	CY3654-P03
Personality Board	CY7C632XXA, and CY7C637XX	428-1340-ND	400.00	CY3654-P05

Reference Design: CY4601

USB to Serial

The USB to Serial Reference Design is a single chip solution for seamlessly upgrading a serial interface to USB. On the host side we provide a custom Windows driver that provides serial port emulation. On the peripheral side we provide firmware for different USB microcontrollers to support a range of application throughput needs. The design architecture enables easy migration to a true USB device in the future.

Key Features:

• 3 chip families supported - enCoRe: 600-56K baud (800 bytes/sec) - CY7C64013: 600-56K baud (4K bytes/sec) • Includes COM port emulation driver • Supports RI, CD, RTS, CTS, DTR, and DSR control and monitoring • Full control of baud rate, data bytes, stop bits and parity bits

Devices Supported: • CY7C63722-PC, CY7C63722-SC, CY7C63723-PC, CY7C63723-SC, CY7C63742-PC, CY7C63742-SC, CY7C63743-PC, CY7C63743-SC, CY7C64013-PC, CY7C64013-SC

This Reference Design Kit includes:

• Documentation Design Notes for enCoRe and CY7C64013 Quick Start/User Guide
• Serial port emulation driver, Windows based support applications, Firmware source code

Notes: (1) No board comes with the reference design kit. It is intended to be used in conjunction with the development kit for the corresponding part: enCoRe – CY3654 plus CY3654-P05, CY7C64013 – CY4654 plus CY3654-P03 (2) Sample, untested source code for the EZ-USB microcontroller is also included

428-1343-ND Reference Design Kit **$199.00**

Reference Design: CY4620

Multimedia Combi Keyboard Hub

This reference design implements a combination USB-PS/2 keyboard with an integrated 4 port hub using the single CY7C66113 USB microcontroller. This same solution can be used for a simple USB Keyboard Hub by using only the USB cable. Devices Supported: CY7C66113-PVC

Features: • Fully Integrated Keyboard and Hub Functions using a Single 56 Pin SSOP Solution • Auto Detection of USB or PS/2 keyboard interface • 4 Downstream Ports • Supports up to 21 x 8 Scan matrix • Internal EPROM allows for easy change to scan matrix • 1 Kbyte of EPROM available for customer user code • Supports Multimedia and Power Management Keys: Power Off, E-mail, Next, Sleep, Search, Previous, Wakeup, Favorites, Volume Up, Calculator, Play/Pause, Volume Down, Home, Stop, and Mute

The Reference Design Kit Includes: • Design Notes for implementing a combi keyboard hub • Firmware source and object code • Hardware files: Schematics, Gerber Files, and Bill of Materials • Combi keyboard hub demonstration unit

428-1467-ND Reference Design Kit.. **$199.00**

Reference Design: CY4612

High Speed USB to ATA

The ISD300A1 is the fastest, easiest way to implement a USB to ATA/ATAPI bridge. This fixed function device minimizes risk and reduces design cycle time, but still allows flexibility through EEPROM configuration options. Multiple complete hardware design options are included. Devices Supported: ISD-300A1

Features: Single chip solution, Supports PIO modes 0-4 and UDMA modes 0-4, Compatible with Windows and MAC OS class drivers, Windows 98 driver included, EEPROM, Tri-statable output lines

This Reference Design Kit Includes: ISD301A development board, ISD310 sample production board, 80-pin ATA cable, "Y" power adapter cable, USB cable, ISD-300A1 Datasheet CD-ROM containing: Hardware design databases for 4 different board layouts, Schematic, Bill of Materials, Gerber files, Orcad files, Windows 98 driver, Sample EEPROM programming utility, and other technical support documents.

428-1465-ND Reference Design Kit.. **$199.00**

Developer Kit: CY3681

The development kit for the EZ-USB FX2 family provides complete hardware and software solutions for accelerating the firmware and device driver development for all the members of the families. The development kits use the actual silicon for the entire development. Cypress' software utilities and example firmware allow the user to generate USB traffic in hours, not weeks!

Cypress includes an evaluation version of the 8051 Keil Software Tools in the USB 2.0 Development Kit. The evaluation version of the C-Compiler lets the designer write 8051 microcontroller applications in C and still get the efficiency and speed of assembly language. Advanced features from Keil tools include the ability to single step through code. This makes it easy to detect errors, handle source level debugging, and set breakpoints. With the ability to debug code one line at a time and to quickly compile and one-step download new code, developers have a more efficient means to complete firmware faster than using emulators. The supplied Keil tools are fully functional, but are limited in object size to 4 Kbytes.

Devices Supported: CY7C68013-100AC, CY7C68013-128AC, CY7C68013-56PVC

The kit includes the following: EZ-USB Development Board with CY7C68013-128AC, peripheral Board for prototyping, USB cable, and an RS-232 9-pin to 9-pin cable.

428-1335-ND USB 2.0 Development Kit **$495.00**

Reference Design: CY4610

Full Speed USB to ATA and Compact Flash

The Cypress EZ-USB family of microcontrollers provides an ideal USB interface to a Mass Storage device. The 16 bit General Programmable Interface of our EZ-USB FX and the 8 bit interface of our EZ-USB provide a glueless interface to the attached drive. Our single chip designs provide low cost, flexible and high performance solutions.

Devices Supported: AN2135SC, CY7C64613-128NC, CY7C64613-80NC

Supported Interfaces: • The EZ-USB FX design supports USB to ATA - IDE: Hard Drives - ATAPI: ZIP, LS-120, CDs, DVDs • The EZ-USB design supports - Compact Flash

Key Features: • Single chip device supports ATA or Compact Flash interfaces • Sustained transfer rates of 1 Mbyte/second • Field Upgradeable Firmware • Large internal RAM allows data buffer and double-buffer bulk endpoints • Compatible with Mass Storage Class drivers in standard operating systems • Windows 98 Driver included

The Reference Design Kit includes: • Design Notes for USB to ATA and USB to Compact Flash • Firmware source and object code • Windows, Mac OS, and DOS drivers • Hardware files for USB to ATA and USB to CompactFlash - Schematics - Gerber Files - Bill of Materials • USB to ATA demonstration board

428-1336-ND Reference Design Kit.. **$199.00**

FTG Programming Kit: CY3670

The CY3670 FTG programming kit provides users with a PC the ability to program Cypress EPROM Field-Programmable Clock Generators quickly and easily. The two setup requirements are a power connection and a serial port connection with the PC.

Features: • Supports multiple Cypress EPROM Field Programmable Clock Generators: CY2071AF, CY2291F, CY2292F, CY2292FZ, CY2907F8, and CY2907F14 • Separate device-specific socket adapters • Allows quick and easy prototyping • Compact design for ease of portability • Easy to use interface: Windows 95, Windows 98, and Windows NT 4.0 compatible • User-friendly CYClocks™ software for JEDEC file development

Kit Contents: • Programmer Unit • Serial Port Cable • AC/DC Adapter • CD containing • CyClocks™ Software • CY_FTG_V2 Programmer Software • Data sheets of supported devices • Device-specific socket adapters for the CY2071AF and CY2292F (socket adapters for the other devices are ordered separately)

428-1457-ND FTG Programming Kit.. **$199.00**

FTG Programming Kit: CY3672

The CY3672 programming kit enables any user with a PC the ability to program Field Programmable Clock generators quickly and easily. The only two setup requirements are a power connection and a parallel port connection with the PC.

Features: • Supports Field Programmable Clock Generators: CY2077FS, CY2077FZ, CY22050F, CY22150F, CY22381F, CY22392F, CY22393F, CY22394F, and CY22395F • Allows quick and easy prototyping • Compact design for ease of portability • Easy to use Windows 95, 98, NT, 2K, ME, XP compatible interface • User friendly CYClocksRT ™ software for JEDEC file development

Kit Contents: • Three Sockets: CY3695, CY3698, CY3699 • Parallel Port cable • AC/DC adapter • CD containing: CyClocksRT™ software, CY3672 programmer interface software, and data sheets.

428-1458-ND FTG Programming Kit.. **$199.00**

Reference Design: CY4611

USB 2.0 USB to ATA Design

With the EZ-USB FX2, Mass Storage applications can now take advantage of the high bandwidth capability of USB 2.0. This design supports ATA specification modes through UDMA 100 for the highest performance USB mass storage solution available. The General Programmable Interface of the FX2 allows glueless connection to the attached drive. This design provides all of the materials necessary to move right to production with the most flexible, highest performance solution available. Supported Interface: USB to ATA **Devices Supported:** CY7C68013-100AC, CY7C68013-128AC, CY7C68013-56PVC.

IDE: Hard Drives, CompactFlash, ATAPI: CD-ROM/R/RW, DVD-ROM/RAM/RW, ZIP, LS-120, and other ATAPI devices.

Key Features: Single chip interface to any mass storage device, Supports PIO and UDMA modes through UDMA Mode 5 (UDMA-100), Transfer rate limited only by USB 2.0 bandwidth, Field Upgradeable Firmware, Large internal RAM allows data buffer and quad-buffer bulk endpoints. Supported by Windows and Mac OS Class Drivers, Windows 98 Driver available, Shorter development time with complete Reference Design Kit.

The Reference Design Kit Includes: USB to ATA demonstration board, "Y" power cable Design Notes, Firmware source and object code Hardware files including: • Schematic • Gerber Files • Bill of Materials

428-1468-ND Reference Design Kit.. **$199.00**

Developer Kit: SL811S-DK

The Cypress SL811S-DK developers kit designed to help you build your USB Embedded Host Application in just 2-3 weeks. Devices Supported: SL811S, SL811ST-AC

The Kit comes complete with the following: • SL811S/ISA peripheral evaluation board • HW reference design for SL811S/ISA board • Firmware source code example in "C" and/or 8051 Assembler (other processors firmware code is available too) • Application notes • System Software demo program source code in "C" under Win98/2000 • Generic WDM mini-port driver for WIN98/2000 - object code • Sample chips

SL811S and SL811ST DVK Includes: SL811S/ISA peripheral evaluation board, HW reference design for SL811S/ISA board, Firmware source code example in "C" and/or 8051 Assembler (other processors firmware code is available too), Application notes, System Software demo program source code in "C" under Win98/2000, Generic WDM mini-port driver for Win98/2000 - object code, Sample chips

428-1466-ND SL811 Development Tools.. **$389.00**

CPLDs

Cypress offers a wide range of Programmable Logic Devices From PALs with 10 macrocells and 200 gates up to CPLDs with 3072 macrocells and 200,000 gates. Cypress also provides voltages ranging from 2.5V up the typical 5.0V

The **MAX340** are Erasable Programmable Logic Devices (EPLD) in which CMOS EPROM cells are used to configure logic functions within the device. The MAX® architecture is 100% user-configurable, allowing the devices to accommodate a variety of independent logic functions. CMOS EPROM cells are used to configure logic functions within the device. The MAX architecture is 100% user-configurable, allowing the devices to accommodate a variety of independent logic functions.

The **UltraLogic FLASH370i™** is an In-System Reprogrammable Complex Programmable Logic Device (CPLD) and is part of the FLASH370i™ family of high-density, high-speed CPLDs. Like all members of the FLASH370i family, they are designed to bring the ease of use and high performance of the 22V10, as well as PCI Local Bus Specification support, to high-density CPLDs. They are electrically erasable and In-System Reprogrammable (ISR),which simplifies both design and manufacturing flows.

The **Cypress PAL SPLDs** are Advanced second-generation PAL architecture. They are CMOS Flash Erasable programmable array logic device. It is implemented with the familiar sum-of-products (AND-OR) logic structure and the programmable macrocell.

The **Ultra37000™** family of CMOS CPLDs provides a range of high-density programmable logic solutions with unparalleled system performance. The Ultra37000 family is designed to bring the flexibility, ease of use, and performance of the 22V10 to high-density CPLDs. The architecture is based on a number of logic blocks that are connected by a Programmable Inter-connect Matrix (PIM). Each logic block features its own product term array, product term allocator, and 16 macrocells. The PIM distributes signals from the logic block outputs and all in-put pins to the logic block inputs. All of the Ultra37000 devices are electrically erasable and In-System Reprogrammable (ISR).

The **Delta39K™ ISR™ CPLD** Family based on a 0.18-Ïm, six-layer metal CMOS logic process, offers a wide range of high-density solutions at unparalleled system performance. The Delta39K family is designed to combine the high speed, predictable timing, and ease of use of CPLDs with the high densities and low power of FPGAs. With devices ranging from 15,000 to 200,000 usable gates, the family features devices ten times the size of previously available CPLDs. Even at these large densities, the Delta39K family is fast enough to implement a fully synthesizable 64-bit, 66-MHz PCI core.

Voltage	Memory Type	Tpd (ns)	Macrocells	Gates	Option Power	I/O	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
MAX340 HIGH DENSITY EPLDs												
5.0	Erasable	25	192	—	Std.	72	84-PLCC	428-1261-ND	93.90	87.64	81.38	CY7C341B-25JC
5.0	Erasable	15	128	—	Std.	60	68-PLCC	428-1262-ND	87.32	81.50	75.68	CY7C342B-15JC
5.0	Erasable	25	128	—	Std.	60	68-PLCC	428-1263-ND	60.45	56.42	52.39	CY7C342B-25JC
5.0	Erasable	25	64	—	Std.	32	44-PLCC	428-1264-ND	27.90	26.04	24.18	CY7C343B-25JC
5.0	Erasable	15	32	—	Std.	24	28-PLCC	428-1265-ND	19.05	17.78	16.51	CY7C344B-15JC
5.0	Erasable	25	128	—	Std.	48	84-PLCC	428-1266-ND	43.50	40.60	37.70	CY7C346B-25JC
ULTRA LOGIC Flash370i												
5.0	Flash	10	32	800	Std.	37	44-PLCC	428-1267-ND	8.75	7.88	6.99	CY7C371I-110JC
5.0	Flash	12	64	1600	Std.	37	44-PLCC	428-1268-ND	15.66	14.10	12.51	CY7C372I-100JC
5.0	Flash	12	64	1600	Std.	69	84-PLCC	428-1269-ND	17.48	16.31	15.15	CY7C373I-100JC
5.0	Flash	12	128	3200	Std.	69	84-PLCC	428-1270-ND	34.95	32.62	30.29	CY7C374I-100JC
5.0	Flash	10	128	3200	Std.	133	160-TQFP	428-1472-ND	39.00	36.40	33.80	CY7C375I-125AC
5.0	Flash	20	128	3200	Std.	133	160-TQFP	428-1473-ND	33.15	30.94	28.73	CY7C375I-66AC
PAL SPLDs												
3.3	Flash	25	10	300	1/2	22	24-SDIP	428-1273-ND	4.16	3.33	2.59	PALC22V10-25PC
3.3	Flash	25	10	300	Std.	22	28-PLCC	428-1274-ND	3.67	2.94	2.29	PALC22V10D-25JC
3.3	Flash	25	10	300	1/4	22	24-SDIP	428-1275-ND	4.84	3.87	3.01	PALC22V10L-25PC
3.3	Flash	25	10	300	1/4	22	28-PLCC	428-1276-ND	4.84	3.87	3.01	PALC22V10L-25JC
5.0	Flash	15	8	200	Std.	18	20-PLCC	428-1277-ND	3.15	2.52	1.96	PALCE16V8-15JC
5.0	Flash	15	8	200	Std.	18	20-DIP	428-1278-ND	3.15	2.52	1.96	PALCE16V8-15PC
5.0	Flash	15	8	200	Std.	18	20-PLCC	428-1279-ND	3.71	2.97	2.31	PALCE16V8-7JC
5.0	Flash	15	10	300	Std.	22	28-PLCC	428-1280-ND	5.18	4.14	3.22	PALCE22V10-15JC
5.0	Flash	15	10	300	Std.	22	24-SDIP	428-1281-ND	5.18	4.14	3.22	PALCE22V10-15PC
5.0	Flash	25	10	300	Std.	22	24-SDIP	428-1282-ND	3.67	2.94	2.29	PALCE22V10-25PC
5.0	Flash	5	10	300	Std.	22	28-PLCC	428-1283-ND	10.33	9.30	8.25	PALCE22V10-5JC
5.0	Flash	25	10	300	1/4	22	24-SDIP	428-1284-ND	8.10	6.48	5.47	PLDC20G10-25PC
ULTRA 37000 CPLDs												
5.0	Flash	10	32	960	Std.	37	44-TQFP	428-1285-ND	5.50	4.40	3.72	CY37032P44-125AC
3.3	Flash	12	32	960	Std.	37	44-TQFP	428-1286-ND	5.20	4.16	3.51	CY37032VP44-100AC
5.0	Flash	10	64	2000	Std.	69	100-TQFP	428-1287-ND	9.30	8.37	7.43	CY37064P100-125AC
5.0	Flash	10	64	2000	Std.	37	44-TQFP	428-1288-ND	7.60	6.08	5.13	CY37064P44-125AC
5.0	Flash	10	128	3800	Std.	133	160-TQFP	428-1290-ND	15.74	14.69	13.64	CY37128P160-125AC
5.0	Flash	10	192	5700	Std.	125	160-TQFP	428-1291-ND	22.62	21.12	19.61	CY37192P160-125AC
3.3	Flash	12	192	5700	Std.	125	160-TQFP	428-1292-ND	22.62	21.12	19.61	CY37192VP160-100AC
5.0	Flash	10	256	7700	Std.	133	160-TQFP	428-1293-ND	32.34	30.19	28.03	CY37256P160-125AC
DELTA 39K ISR CPLDs												
2.5-3.3	Flash	10	1536	100K	Lp	136	208-PQFP	428-1294-ND	67.95	63.42	58.89	CY39100V208B-125NTC
2.5-3.3	Flash	10	1536	100K	Lp	294	388-BGA	428-1295-ND	101.93	95.13	88.34	CY39100V388B-125MGC
2.5-3.3	Flash	10	3072	200K	Lp	136	208-PQFP	428-1296-ND	127.07	118.60	110.13	CY39200V208-125NTC
2.5-3.3	Flash	10	3072	200K	Lp	294	388-BGA	428-1297-ND	190.59	177.89	165.18	CY39200V388-125MGC

Delta39K™/Ultra37000™ ISR™ Programming Kit

Functional Description: The Delta39K/Ultra37000 ISR Programming Kit enables users to program Ultra37000, Ultra37000V, Quantum38K, Delta39K, and PSI CPLDs on board with our ISR Programming Software, the UltraISR Programming Cable, and a personal computer. The UltraISR Programming Cable connects to the parallel port of a PC into a standard 10-pin male connector mounted on the user's board. The ISR software provides an easy-to-use Graphical User Interface that accepts JEDEC or .hex files as input. The JEDEC/.hex files are used to compose platform independent STAPL files. STAPL files contain all the information.

Features: • Supports Cypress' Ultra37000™, Ultra37000V™, Quantum38K, Delta39K™, and PSI™ families of products • STAPL programming language support • Standard JTAG programming interface • Multi-device programming • Easy to use Windows 98™, Windows 2000™, Windows ME™, and Windows NT™ compatible interface • Eliminates programming insertion to improve manufacturing efficiency • For programming in the lab, on manufacturing floor, or at remote sites • ATE support via STAPL on industry leading ATE platforms

Kit Contents: • UltraISR™ Programming Cable for use with Ultra37000, Delta39K, and PSI CPLD families • ISR Programming Software Release 3.0 • ISR Application Notes • Delta39K™/Ultra37000™ Prototype Board

PC System Requirements: • IBM PC or compatible running Windows 98, Windows 98 Second Edition, Windows ME, Windows NT 4.0 Service Pack 5 or later or Windows 2000 Service Pack 1 or later

- One free parallel port
- Minimum of 32MB of RAM
- Approximately 30MB free hard disk space

428-1305-ND Delta39K/Ultra37000 ISR Programming Kit........ **$99.00**

*Warp*ISR™ Design Kit for CPLDs

WarpISR is a complete ISR CPLD design and programming solution. It includes Warp Software and the Delta39K\Ultra37000 ISR Programming Kit. Warp is a state-of-the-art HDL compiler for designing with Cypress' Complex Programmable Logic Devices (CPLDs).

Warp Software System Requirements: • IBM PC or equivalent (Pentium® class recommended) • 32 Mb of RAM (64 Mb recommended) • 110 Mb disk space • CD-ROM drive • Windows 98, or Windows NT 4.0

ISR Software PC System Requirements: • IBM PC or compatible running Windows 98, Windows 98 Second Edition, Windows ME, Windows NT 4.0 Service Pack 5 or later, Windows 2000 Service Pack 1 or later • One free parallel port • Minimum of 32 MB of RAM • Approximately 30 MB free hard disk space

WarpISR includes: • CD-ROM with Warp and on-line documentation •"VHDL for Programmable Logic" textbook by Kevin Skahill • UltraISR Programming Cable • CD-ROM with ISR Programming Software Release 3.0 • ISR Application Notes • Delta39K\Ultra37000 Prototype board with an Ultra37256VP160 and a Delta39100V208 device • Registration Card

Product Code Description: CY3620R62 WarpISR Design Kit for CPLDs

428-1304-ND Warp Design Programming Kit For ISR (In-System Reprogram)........ **$175.00**

Warp® CPLD Development Tool for UNIX

Warp is a state-of-the-art HDL compiler for designing with Cypress' Complex Programmable Logic Devices (CPLDs). Warp utilizes a subset of IEEE 1076/1164 VHDL and IEEE 1364 Verilog as its Hardware Description Languages (HDL) for design entry. Then, it synthesizes and optimizes the entered design, and outputs a JEDEC or Intel hex file for the desired PLD or CPLD. Warp also accepts VHDL or Verilog produced by the Active-HDL FSM graphical Finite State Machine editor. For simulation, Warp provides a timing simulator, as well as VHDL and Verilog timing models for use with third party simulators.

Supports for the following Cypress Programmable Logic Devices: • PSI™ (Programmable Serial Interface™) • Delta-39K™ CPLDs • Quantum38K™ CPLDs • Ultra37000™ CPLDs • FLASH370i™ CPLDs • MAX340™ CPLDs • Industry-standard PLDs (16V8, 20V8, 22V10)

System Requirements • 32 MB of RAM (64 MB recommended) • 110 MB Disk Space • CD-ROM drive • Solaris 2.5 or later

Warp includes: • CD-ROM with Warp and on-line documentation (Getting Started Manual, User's Guide, HDL Reference Manual) • VHDL for Programmable Logic Textbook • Registration Card

Product Code Description: CY3125R62 Warp Development System for UNIX

428-1302-ND Warp CPLD Development Tool Kit........ **$99.00**

Warp® Professional™ CPLD Software

Functional Description: Warp Professional is an integration of the Warp CPLD Development package with additional sophisticated EDA software features from Aldec. In addition to accepting IEEE 1076/1164 VHDL text, IEEE 1364 Verilog text and graphical finite state machines for design entry, Warp Professional provides a graphical HDL block diagram editor with a library of graphical HDL blocks pre-optimized for Cypress devices.

Warp Software System Requirements: • IBM PC or equivalent (Pentium® class recommended) • 32 MB of RAM (64 MB recommended) • 110 MB Disk Space • CD-ROM drive • Windows 98, or Windows NT 4.0 • Warp Professional Hardware Key for License

ISR Software PC Requirements: • IBM PC or compatible running Windows 98, Windows 98 Second Edition, Windows ME, Windows NT 4.0 Service Pack 5 or later, or Windows 2000 Service Pack 1 or later • One free parallel port • Minimum of 32 MB of RAM • Approximately 30 MB free hard disk space

Warp Professional Includes: • Cypress Lab CD-ROM with Warp Professional, ISR software, on-line documentation (Getting Started Manual, User's Guide, HDL Reference Manual, Databook) and other Cypress software • VHDL for Programmable Logic Textbook • UltraISR Programming Cable • Delta39K\Ultra37000 prototype board with a CY37256V 160-pin TQFP device and a CY39100V 208-pin PQFP device • Registration Card • Hardware License Key

Product Code Description: CY3128R62 Warp Professional CPLD Software for PCs

428-1303-ND Warp CPLD Professional Software........ **$495.00**

TEXAS INSTRUMENTS MSP430 Ultra-Low Power Microcontrollers

The MSP430 family of ultra-low power 16-bit RISC mixed-signal processors provides the ultimate solution for battery-powered measurement applications. Using leadership in both mixed-signal and digital technologies, the MSP430 enables system designers to simultaneously interface to analog signals, sensors and digital components while maintaining unmatched low power.

Features: • Ultra-low power architecture extends battery life 0.1uA RAM retention, 0.8uA real-time clock mode, 250uA/MIPS active • High-performance analog ideal for precise measurements • Modern 16-bit RISC CPU enables new applications at a fraction of the code size • In-system programmable Flash permits code changes, field upgrades and data logging • Watchdog 16-Bit

MSP430 Architecture A 16-bit RISC CPU, peripherals and flexible clock system are combined by using a von-Neumann common memory address bus (MAB) and memory data bus (MDB). Partnering a modern CPU with modular memory-mapped analog and digital peripherals, the MSP430 offers solutions for todays and tomorrows mixed-signal applications.

Memory Options • Flash, ROM, OTP versions (from 1 kB to 60 kB) • RAM up to 10 kB

Analog Peripherals • High-performance ADC • Dual DACs • Comparator • LCD driver • Supply Voltage Supervisor (SVS)

Digital Peripherals • UART/I2C • Hardware multiplier • 16-bit and 8-bit timers • DMA controller

Modern 16-Bit RISC CPU • Larger register file eliminates accumulator bottleneck • Optimized for C and assembler programming • Compact core design reduces power and cost • Up to 8 MIPS of performance available

Operating Temperature Range: -40°C to +85°C

Memory Size												Price Each			
Flash (Program)	SRAM	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	Frequency Range Min./Max.	V_{CC}	Package	Digi-Key Part No.	1	25	100	Texas Instruments Part No.
Flash Based F1xx Family															
1 K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-6506-5-ND	2.61	2.09	1.63	MSP430F110IDW
1 K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-9609-5-ND	2.61	2.09	1.63	MSP430F110IPW
1 K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-13768-5-ND	2.43	1.94	1.46	MSP430F1101AIDW
1 K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-13720-5-ND	2.43	1.94	1.46	MSP430F1101AIPW
1 K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-6505-5-ND	2.61	2.09	1.63	MSP430F1101IDW
1 K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-9608-5-ND	2.61	2.09	1.63	MSP430F1101IPW
2 K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-12633-5-ND	2.86	2.29	1.78	MSP430F1111AIDW
2 K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-12634-5-ND	2.86	2.29	1.78	MSP430F1111AIPW
4 K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TVSOP	296-12703-5-ND	3.56	2.85	2.22	MSP430F1121AIDGV
4 K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-13457-5-ND	3.56	2.85	2.22	MSP430F1121AIDW
4 K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-13458-5-ND	3.56	2.85	2.22	MSP430F1121AIPW
4 K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-6507-5-ND	4.50	3.60	2.80	MSP430F1121IDW
4 K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-6508-5-ND	4.50	3.60	2.80	MSP430F1121IPW
4 K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-6509-5-ND	4.50	3.60	2.80	MSP430F112IDW
4 K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-9610-5-ND	4.50	3.60	2.80	MSP430F112IPW
4 K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-6510-5-ND	5.04	4.04	3.14	MSP430P112IDW
4 K	256	14	—	—	1	5-Ch., 10-Bit	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-13776-5-ND	4.79	3.84	2.99	MSP430F1122IDW
4 K	256	14	—	—	1	5-Ch., 10-Bit	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-13777-5-ND	4.79	3.84	2.99	MSP430F1122IPW
4 K	256	22	—	—	1	Slope	1	DC-8MHz	1.8-3.6 V	28-TSSOP	296-12082-5-ND	5.20	4.16	3.24	MSP430F122IPW
4 K	256	22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8-3.6 V	28-SOIC	296-13780-5-ND	5.60	4.49	3.49	MSP430F1222IDW
4 K	256	22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8-3.6 V	28-TSSOP	296-13781-5-ND	5.60	4.49	3.49	MSP430F1222IPW
8 K	256	14	—	—	1	5-Ch., 10-Bit	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-13778-5-ND	5.31	4.25	3.31	MSP430F1132IDW
8 K	256	14	—	—	1	5-Ch., 10-Bit	—	DC-8MHz	1.8-3.6 V	20-TSSOP	296-13779-5-ND	5.31	4.25	3.31	MSP430F1132IPW
8 K	256	22	—	—	1	Slope	1	DC-8MHz	1.8-3.6 V	28-SOIC	296-13101-5-ND	5.42	4.34	3.38	MSP430F123IDW
8 K	256	22	—	—	1	Slope	1	DC-8MHz	1.8-3.6 V	28-TSSOP	296-12083-5-ND	5.42	4.34	3.38	MSP430F123IPW
8 K	256	22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8-3.6 V	28-SOIC	296-13782-5-ND	5.30	4.24	3.58	MSP430F1232IDW
8 K	256	22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8-3.6 V	28-TSSOP	296-13783-5-ND	5.30	4.24	3.58	MSP430F1232IPW
8 K	256	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	64-LQFP	296-9611-ND	5.66	4.53	3.83	MSP430F133IPM
16 K	512	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	64-LQFP	296-9612-ND	6.82	5.46	4.61	MSP430F135IPM
32 K	1024	48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	64-LQFP	296-9613-ND	9.52	7.62	6.43	MSP430F147IPM
48 K	2048	48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	64-LQFP	296-9614-ND	9.03	8.13	7.21	MSP430F148IPM
60 K	2048	48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	64-TQFP	296-13102-ND	9.70	8.73	7.75	MSP430F149IPAG
60 K	2048	48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	64-LQFP	296-9615-ND	9.55	8.60	7.63	MSP430F149IPM

Memory Size												Price Each			
Flash (Program)	SRAM	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	Frequency Range Min./Max.	V_{CC}	Package	Digi-Key Part No.	1	25	100	Texas Instruments Part No.
Flash Based F4xx Family with LCD Driver															
4 K	256	48	96	2	1	Slope	—	DC-8MHz	1.8-3.6 V	64-LQFP	296-12084-ND	5.51	4.41	3.43	MSP430F412IPM
8 K	256	48	96	2	1	Slope	—	DC-8MHz	1.8-3.6 V	64-LQFP	296-12085-ND	5.58	4.47	3.77	MSP430F413IPM
16 K	512	48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	80-LQFP	296-13721-ND	8.46	6.77	5.72	MSP430F435IPN
16 K	512	48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	100-LQFP	296-12635-ND	8.46	6.77	5.72	MSP430F435IPZ
24 K	1024	48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	80-LQFP	296-13722-ND	8.94	7.16	6.04	MSP430F436IPN
24 K	1024	48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	100-LQFP	296-12636-ND	8.94	7.16	6.04	MSP430F436IPZ
32 K	1024	48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	80-LQFP	296-13723-ND	9.32	7.46	6.30	MSP430F437IPN
32 K	1024	48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	100-LQFP	296-12637-ND	9.32	7.46	6.30	MSP430F437IPZ
32 K	1024	48	160	2	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	100-LQFP	296-12638-ND	9.03	8.13	7.21	MSP430F447IPZ
48 K	2048	48	160	2	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	100-LQFP	296-12639-ND	10.25	9.23	8.18	MSP430F448IPZ
60 K	2048	48	160	2	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	100-LQFP	296-12640-ND	11.13	10.02	8.89	MSP430F449IPZ

Memory Size												Price Each			
EPROM/OTP (Program)	SRAM	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	Frequency Range Min./Max.	V_{CC}	Package	Digi-Key Part No.	1	25	100	Texas Instruments Part No.
ROM/OTP Based X3xx Family with LCD Driver															
8 K	256	14	64/92	2	—	Slope	—	DC-8MHz	2.5-5.5 V	56-SSOP	296-6511-5-ND	9.92	7.94	6.70	MSP430P313IDL
16 K	512	14	64/92	2	—	Slope	—	DC-8MHz	2.5-5.5 V	56-SSOP	296-2382-5-ND	9.92	7.94	6.70	MSP430P315IDL
16 K	512	14	64/92	2	—	Slope	—	DC-8MHz	2.5-5.5 V	48-SSOP	296-6512-5-ND	9.92	7.94	6.70	MSP430P315SIDL
16 K	512	14	84	2	—	6-Ch., 14-Bit	—	DC-8MHz	2.5-5.5 V	68-PLCC	296-6513-5-ND	11.00	9.90	8.78	MSP430P325AIFN
16 K	512	14	84	2	—	6-Ch., 14-Bit	—	DC-8MHz	2.5-5.5 V	64-QFP	296-6514-ND	10.83	9.75	8.65	MSP430P325AIPG
16 K	512	14	84	2	—	6-Ch., 14-Bit	—	DC-8MHz	2.5-5.5 V	64-LQFP	296-6515-ND	10.83	9.75	8.65	MSP430P325AIPM
16 K	512	14	84	2	—	6-Ch., 14-Bit	—	DC-8MHz	2.7-5.5 V	68-PLCC	296-1409-5-ND	11.00	9.90	8.78	MSP430P325IFN
16 K	512	14	84	2	—	6-Ch., 14-Bit	—	DC-8MHz	2.7-5.5 V	64-QFP	296-2383-ND	10.91	9.83	8.72	MSP430P325IPG
16 K	512	14	84	2	—	6-Ch., 14-Bit	—	DC-8MHz	2.7-5.5 V	64-LQFP	296-6516-ND	10.83	9.75	8.65	MSP430P325IPM
32 K	1024	40	120	2	2	Slope	1	DC-8MHz	2.5-5.5 V	100-QFP	296-2384-ND	12.06	10.86	9.63	MSP430P337AIPJM
32 K	1024	40	120	2	2	Slope	1	DC-8MHz	2.5-5.5 V	100-QFP	296-6517-ND	12.06	10.86	9.63	MSP430P337IPJM

MSP-FET430 Flash Emulation Tool

The Flash Emulation Tool (FET) supports complete in-system development and is available for all MSP430Fxx Flash devices. Programming, assembler/C-source level debug, single stepping, multiple hardware breakpoints, full-speed operation and peripheral access are all fully supported in-system using JTAG. The FET comes complete with everything required to complete an entire project.

Features: • JTAG based real-time-in-system emulation • Target board, interface box, cable and samples • CD-Rom includes IAR Kickstart IDE, assembler, linker, simulator and 2-kB C-compiler

Includes: • MSP430F11x(1) FET development board with SOIC ZIF socket, LED indicator, FET to PC cable, and header pinouts for prototyping • Two MSP430F1121 flash devices • Integrated IAR kickstart user interface which includes assembler, linker, simulator, source-level debugger, and function limited C compiler • Full documentation on CD ROM

296-13850-ND MSP-FET430X110 .... **$62.78**

MSP-EVK430S320 Evaluation Kit

The MSP-EVK430S320 evaluation kit supports the MSP430x32x family of devices and comes with the PMS430E325FZ (UV EPROM) assembled in a socket.

Kit Includes: • MSP430 EVK board with UV erasable EPROM, LCD, PC connector • MSP-PRGS430 serial programming adapter • IAR Kickstart IDE, assembler, linker and limited C compiler • CD-ROM with software tools and complete documentation

296-13849-ND MSP-EVK430S320 .... **$511.19**

TMS370C756A 8-Bit Microcontroller

The TMS370Cx5x family of single-chip 8-bit micro-controllers provides cost-effective real-time system control through integration of advanced peripheral function modules and various on-chip memory configurations. This device is implemented using high-performance silicon-gate CMOS EPROM and EEPROM technologies. The low-operating power, wide-operating temperature range, and noise immunity of CMOS technology, coupled with the high performance and extensive on-chip peripheral functions, make the TMS370Cx5x devices attractive in system designs for automotive electronics, industrial motor control, computer peripheral control, telecommunications, and consumer application.

Maximum clock frequency: 20MHz

Operating Temperature Range: -40°C to +85°C

Memory Size											Price Each			
Program EPROM	Data RAM/EEPROM	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	V_{CC}	Package	Digi-Key Part No.	1	25	100	Texas Instruments Part No.
TMS370 Family														
16K	512/512	46	—	—	2	8-Ch., 8-Bit	—	5 V ± 10%	68-PLCC	296-10770-5-ND	16.43	15.33	14.24	TMS370C756AFNT

MOTOROLA Microcontrollers

68HC711 Family — 8-Bit

Features: • 68HC11 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, SCI • Available A/D converter • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	EPROM/ OTP (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Motorola Part No.
											1	25	100	
192	—	4K	16-Bit, RTI	32	—	5.0	2.0	-40~+85	44-PLCC	MC68HC711D3CFN2-ND	9.04	6.72	6.27	MC68HC711D3CFN2
786	512	20K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	3.0	-40~+85	52-PLCC	MC68HC711E20CFN3-ND	20.51	16.27	15.35	MC68HC711E20CFN3
512	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	3.0	-40~+85	52-PLCC	MC68HC711E9CFN3-ND	14.95	11.59	10.89	MC68HC711E9CFN3
768	512	20K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40~+85	52-PLCC	MC68HC711E20CFN2-ND	19.64	15.54	14.65	MC68HC711E20CFN2
512	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40~+85	52-PLCC	MC68HC711E9CFN2-ND	14.31	11.06	10.39	MC68HC711E9CFN2
768	640	24K	16-Bit, RTI	62	8-Ch., 8-Bit	5.0	4.0	-40~+85	80-QFP	MC68HC711K4CFU4-ND	24.11	19.33	18.27	MC68HC711K4CFU4

68HC11 Family — 8-Bit

Features: • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, SCI • Available A/D converter • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	PWM	Timer	I/O	A/D	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Motorola Part No.
											1	25	100	
512	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	3.0	-40~+85	52-PLCC	MC68HC11E1CFN3-ND	9.77	7.31	6.83	MC68HC11E1CFN3
512	—	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40~+85	52-PLCC	MC68HC11E0CFN2-ND	9.13	6.79	6.33	MC68HC11E0CFN2
512	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40~+85	52-PLCC	MC68HC11E1CFN2-ND	9.38	6.99	6.53	MC68HC11E1CFN2
512	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40~+85	52-PLCC	MC68HC11E1CFN2TR-ND	2879.10/450			MC68HC11E1CFN2R2
768	640	4-Ch., 8-Bit or 2-Ch., 16-Bit	16-Bit, RTI, PWM	37	8-Ch., 8-Bit	5.0	4.0	-40~+85	84-PLCC	MC68HC11K1CFN4-ND	15.58	12.12	11.40	MC68HC11K1CFN4
1K	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	2.0	-40~+85	68-PLCC	MC68HC11F1CFN2-ND	10.20	7.66	7.16	MC68HC11F1CFN2
1K	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	3.0	-40~+85	68-PLCC	MC68HC11F1CFN3-ND	10.63	8.01	7.50	MC68HC11F1CFN3
1K	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	3.0	-40~+85	68-PLCC	MC68HC11F1CFN3TR-ND	1890.00/250			MC68HC11F1CFN3R2
1K	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	4.0	-40~+85	68-PLCC	MC68HC11F1CFN4-ND	11.07	8.37	7.84	MC68HC11F1CFN4
1K	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	4.0	-40~+85	80-LQFP	MC68HC11F1CPU4-ND	11.07	8.37	7.84	MC68HC11F1CPU4

68HC705 Family — 8-Bit

Features: • 68HC05 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • 8-bit accumulator • 8-bit index register • 16-bit stack pointer • On-chip oscillator • 16-bit timer with built in prescaler, or 15-bit MFT timer • COP watchdog protection • Low power STOP and WAIT modes • Available SPI, SCI or SIOP • Available A/D converter • Eight addressing modes • Available PWM

RAM (Bytes)	EEPROM (Bytes)	EPROM/ OTP (Bytes)	I/O	A/D	Timer	Serial	PWM	COP	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Motorola Part No.
														1	25	100	
64	—	1.2K	10	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40~+85	16-Dip	MC68HC705KJ1CP-ND	2.17	1.37	1.23	MC68HC705KJ1CP
64	—	1.2K	10	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40~+85	16-SOIC	MC68HC705KJ1CDW-ND	2.17	1.37	1.23	MC68HC705KJ1CDW
64	—	1.2K	14	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40~+85	20-Dip	MC68HC705J1ACP-ND	3.03	2.00	1.82	MC68HC705J1ACP
64	—	1.2K	14	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40~+85	20-SOIC	MC68HC705J1ACDW-ND	3.03	2.00	1.82	MC68HC705J1ACDW
176	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40~+85	28-Dip	MC68HC705P6ACP-ND	4.20	2.88	2.65	MC68HC705P6ACP
176	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40~+85	28-SOIC	MC68HC705P6ACDW-ND	4.20	2.88	2.65	MC68HC705P6ACDW
192	—	3.75K	32	4-Ch., 8-Bit	8-Bit	—	—	—	3.3, 5.0	2.1	-40~+85	40-Dip	MC68HC705SR3CP-ND	12.43	9.49	8.90	MC68HC705SR3CP
224	—	6K	14	4-Ch., 12-Bit	16-Bit	SIOP	—	Y	3.3, 5.0	2.1	-40~+85	20-SOIC	MC68HC705JJ7CDW-ND	5.48	3.32	3.18	MC68HC705JJ7CDW
224	—	6K	22	4-Ch., 12-Bit	16-Bit	SIOP	—	Y	3.3, 5.0	2.1	-40~+85	28-SOIC	MC68HC705JP7CDW-ND	5.73	3.48	3.32	MC68HC705JP7CDW
304	—	8K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40~+85	40-Dip	MC68HC705C8ACP-ND	7.82	5.73	5.33	MC68HC705C8ACP
304	—	8K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40~+85	44-PLCC	MC68HC705C8ACFN-ND	7.82	5.73	5.33	MC68HC705C8ACFN
304	—	8K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40~+85	44-QFP	MC68HC705C8ACFB-ND	7.82	5.73	5.33	MC68HC705C8ACFB
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40~+85	40-Dip	MC68HC705C9ACP-ND	9.49	7.08	6.62	MC68HC705C9ACP
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40~+85	44-PLCC	MC68HC705C9ACFN-ND	9.49	7.08	6.62	MC68HC705C9ACFN
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40~+85	44-QFP	MC68HC705C9ACFB-ND	9.49	7.08	6.62	MC68HC705C9ACFB
352	256	15K	32	8-Ch., 8-Bit	16-Bit, 2 IC, 2 OC	SCI	2-Ch., 8-Bit	Y	3.3, 5.0	2.1	-40~+85	52-PLCC	MC68HC705B16CFN-ND	11.94	9.09	8.52	MC68HC705B16CFN
352	256	15K	32	8-Ch., 8-Bit	16-Bit, 2 IC, 2 OC	SCI	2-Ch., 8-Bit	Y	3.3, 5.0	2.1	-40~+85	52-PLCC	MC68HC705B16NCFN-ND	11.94	9.09	8.52	MC68HC705B16NCFN

68HC908 Family — 8-Bit

Features: • 68HC08 CPU with Flash memory • Fully upward code compatible with the 68HC05 family for easy migration • Fully static design allowing operation down to DC • 16-bit index register • 16-bit stack pointer • 2, 4 or 6 channel 16-bit timers with built in prescalers • COP watchdog protection • Low-power STOP and WAIT modes • Available USB, SPI, and SCI • Available A/D converter • 16 addressing modes • LVI (Low Voltage Inhibit) supply voltage monitor • 16/8 divide • 8 x 8 multiply

68HC908AZ additional feature: MSCAN (Motorola Scalable Controller Are Network) interface conforms to CAN 2.0B

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Motorola Part No.
													1	25	100	
1.5K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.3, 5.0	8.0	-40~+85	20-SOIC	MC68HC908JK1CDW-ND	2.99	1.97	1.79	MC68HC908JK1CDW
1.5K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.3, 5.0	8.0	-40~+85	20-Dip	MC68HC908JK1CP-ND	2.99	1.97	1.79	MC68HC908JK1CP
1.5K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	20-SOIC	MC68HC908JK1ECDW-ND *NEW!*	3.13	2.01	1.81	MC68HC908JK1ECDW
1.5K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	20-SOIC	MC68HRC908JK1CDW-ND	3.13	2.01	1.81	MC68HRC908JK1CDW
1.5K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	20-Dip	MC68HRC908JK1CP-ND	3.13	2.01	1.81	MC68HRC908JK1CP
4K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.3, 5.0	8.0	-40~+85	20-SOIC	MC68HC908JK3CDW-ND	3.76	2.54	2.33	MC68HC908JK3CDW
4K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.3, 5.0	8.0	-40~+85	20-Dip	MC68HC908JK3CP-ND	3.76	2.54	2.33	MC68HC908JK3CP
4K	128	—	15	10-Ch.,8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	20-SOIC	MC68HC908JK3ECDW-ND *NEW!*	4.13	2.65	2.39	MC68HC908JK3ECDW
4K	128	—	23	12-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.3, 5.0	8.0	-40~+85	28-SOIC	MC68HC908JL3CDW-ND	4.59	3.18	2.92	MC68HC908JL3CDW
4K	128	—	23	12-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	28-Dip	MC68HC908JL3CP-ND	4.59	3.18	2.92	MC68HC908JL3CP
4K	128	—	23	10-Ch.,8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	28-SOIC	MC68HC908JL3ECDW-ND *NEW!*	5.25	3.19	3.05	MC68HC908JL3ECDW
4K	128	—	23	10-Ch.,8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	48-LQFP	MC68HC908JL3ECFA-ND *NEW!*	5.63	3.42	3.26	MC68HC908JL3ECFA
4K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	20-SOIC	MC68HRC908JK3CDW-ND	3.76	2.54	2.33	MC68HRC908JK3CDW
4K	128	—	15	10-Ch., 8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	28-Dip	MC68HRC908JK3CP-ND	4.13	2.65	2.39	MC68HRC908JK3CP
8K	192	—	13	4-Ch., 8-Bit	2-Ch., 16-Bit	SCI	See Timer	3.0, 5.0	8.0	-40~+85	16-SOIC	MC68HC908KX8CDW-ND	5.66	4.01	3.71	MC68HC908KX8CDW
8K	192	—	13	4-Ch., 8-Bit	2-Ch., 16-Bit	SCI	See Timer	3.0, 5.0	8.0	-40~+85	16-Dip	MC68HC908KX8CP-ND	5.66	4.01	3.71	MC68HC908KX8CP
8K	256	—	21	—	2-Ch., 16-Bit	USB1.1	See Timer	5.0	3.0	-40~+85	28-SOIC	MC68HC908JB8ADW-ND	5.48	3.88	3.58	MC68HC908JB8ADW
8K	256	—	37	—	2-Ch., 16-Bit	USB1.1	See Timer	5.0	3.0	-40~+85	44-QFP	MC68HC908JB8FB-ND *NEW!*	5.52	3.95	3.59	MC68HC908JB8FB
8K	256	—	13	—	1-Ch., 16-Bit	USB1.1	See Timer	5.0	3.0	-40~+85	20-SOIC	MC68HC908JB8JDW-ND *NEW!*	5.52	3.95	3.59	MC68HC908JB8JDW
8K	256	—	37	—	2-Ch., 16-Bit	USB1.1	See Timer	4.0-5.5	6.0	-40~+85	20-Dip	MC68HC908JB8JP-ND	5.52	3.95	3.59	MC68HC908JB8JP
8K	256	—	15	10-Ch.,8-Bit	2-Ch., 16-Bit	SCI	See Timer	3.0, 5.0	8.0	-40~+85	20-SOIC	MC68HC908JK8CDW-ND *NEW!*	5.84	4.17	3.79	MC68HC908JK8CDW
8K	256	—	23	10-Ch.,8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	28-SOIC	MC68HC908JL8CDW-ND *NEW!*	6.26	4.48	4.07	MC68HC908JL8CDW
8K	256	—	23	10-Ch.,8-Bit	2-Ch., 16-Bit	—	See Timer	3.0, 5.0	8.0	-40~+85	48-LQFP	MC68HC908JL8CFA-ND *NEW!*	6.86	4.90	4.46	MC68HC908JL8CFA
8K	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch, 16-Bit	SCI. SPI	See Timer	3.0, 5.0	8.0	-40~+85	28-SOIC	MC68HC908GR8CDW-ND *NEW!*	7.01	5.01	4.55	MC68HC908GR8CDW
8K	512	—	36	8-Ch., 8-Bit	Dual 2-Ch., 16-Bit	SCI. SPI	See Timer	3.0, 5.0	8.0	-40~+85	42-QFP	MC68HC908GT8CFB-ND *NEW!*	7.43	5.31	4.83	MC68HC908GT8CFB
12K	512	—	20	4-Ch., 10-Bit	2-Ch., 16-Bit	SCI	See Timer	3.0, 5.0	4.0	-40~+85	52-QFP	MC68HC908LJ12CFB-ND *NEW!*	8.85	6.04	5.75	MC68HC908JL12CFB
12K	512	—	32	6-Ch., 10-Bit	4-Ch., 16-Bit	SCI. SPI	See Timer	3.0, 5.0	8.0	-40~+85	64-QFP	MC68HC908LJ12CFU-ND *NEW!*	8.85	6.04	5.75	MC68HC908LJ12CFU
16K	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch., 16-Bit	SCI, SPI	See Timer +6-Ch., 12-Bit	5.0	8.0	-40~+85	64-QFP	MC68HC908MR16CFU-ND	8.74	6.48	6.04	MC68HC908MR16CFU
32K	512	—	33	8-Ch., 8-Bit	Dual 2-Ch., 16-Bit	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~+85	44-QFP	MC68HC908GP32CFB-ND	10.40	7.82	7.32	MC68HC908GP32CFB
32K	512	—	33	8-Ch., 8-Bit	Dual 2-Ch., 16-Bit	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~+85	40-Dip	MC68HC908GP32CP-ND	10.40	7.82	7.32	MC68HC908GP32CP
32K	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch., 16-Bit	SCI, SPI	See Timer +6-Ch., 12-Bit	5.0	8.0	-40~+85	64-QFP	MC68HC908MR32CFU-ND	11.30	8.56	8.02	MC68HC908MR32CFU
32K	1K	512	51	8-Ch., 8-Bit	Dual 4-Ch.,16-Bit	SCI. SPI	See Timer	5.0	8.0	-40~+85	64-LQFP	MC68HC908AB32CPB-ND *NEW!*	11.39	8.62	7.95	MC68HC908AB32CPB
32K	1K	512	51	8-Ch., 8-Bit	Dual 4-Ch., 16-Bit	SCI, SPI	See Timer	5.0	8.0	-40~+85	64-QFP	MC68HC908AB32CFU-ND	11.13	8.43	7.89	MC68HC908AB32CFU
60K	2K	1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch., 16-Bit	SCI, SPI	See Timer	5.0	8.0	-40~+85	64-QFP	MC908AZ60ACFU-ND	16.76	12.67	11.69	MC908AZ60ACFU
60K	2K	1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch., 16-Bit	SCI, SPI	See Timer	5.0	8.0	-40~+125	64-QFP	MC908AZ60AMFU-ND	18.42	13.93	12.85	MC908AZ60AMFU
7680	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch., 16-Bit	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~+85	32-QFP	MC68HC908GR8CFA-ND	7.01	5.01	4.55	MC68HC908GR8CFA
7680	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch., 16-Bit	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~+85	28-Dip	MC68HC908GR8CP-ND	7.01	5.01	4.55	MC68HC908GR8CP

M68HC908QT/QY — 8-Bit

The MC68HC08 Family is a low cost, high performance, Complex Instruction Set Computer (CISC) with a Von Neumann architecture.
Features: • Enhanced HC05 programming model • Extensive loop control functions • 16 addressing modes • 16-bit index register and stack pointer • Memory to memory data transfers • Object-code compatible with Motorola's 68HC05 architecture for easy migration • Designed to allow efficient, compact modular coding in assembly or C with full 16-bit stackpointer and stack relative addressing • Efficient instruction set with multiply and divide that is easy to learn and use
Memory: • In-application, in-circuit re-programmable Flash memory (1.5K to 4K bytes) • 128 bytes of random access memory (RAM)

Peripherals: • Two-channel, 16-bit timer with selectable input capture, output compare or pulse width modulation (PWM) • Internal clock oscillator reduces board space and system costs by eliminating external components • Flexible I/O allows direct drive of LED and other circuits to eliminate external drivers and help reduce system costs • System protection features, including watchdog timer and on-chip low voltage detect/reset to help reduce cost and increase reliability

68HC908QT4 Demonstration Board (M68DEMO908QT4)

This demo board enables you to use the included CodeWarrior Development Studio Special Edition to modify demo code or develop new code using ASM or C, then program the Flash, and debug in real time all with no additional hardware. Features include: • Battery-powered 8-pin QT4 device • LEDs for user feedback • Potentiometer for A/D input • Push buttons for user input • Access to all I/O for user-provided prototyping • Software demo with application code utilizing the A/D, timers, and I/O. Includes Metrowerks CodeWarrior™ Development Studio Special Edition for HC08. This industry-leading integrated development environment (IDE) enables you to generate highly optimized, ANSI-compliant C code for Nitron microcontrollers, featuring over 60 unique strategies to optimize performance or code density. Also includes: • Processor Expert auto-code generator for on-chip peripherals, designed to allow you to drastically cut development time and improve code quality • Full-chip simulation to enable software development and debug immediately without waiting for target hardware or requiring an evaluation board • Comprehensive package also includes assembler, linker, debugger, and Flash programmer

Ram (Bytes)	Flash (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Max. Bus Freq. @5.0V (MHz)	Operating Temp. (°C)	Pkg.*	Digi-Key Part No.	Price Each 1	25	100	Motorola Part No.
128	1.5K	2-Ch., 16-Bit	5	—	3.0-5.0	8	-40~+85	8-Dip	MC68HC908QT1CP-ND	2.02	1.23	1.07	MC68HC908QT1CP
128	1.5K	2-Ch., 16-Bit	5	—	3.0-5.0	8	-40~+85	8-SOIC	MC68HC908QT1CDW-ND	2.02	1.23	1.07	MC68HC908QT1CDW
128	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	8-Dip	MC68HC908QT2CP-ND	2.43	1.48	1.28	MC68HC908QT2CP
128	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	8-SOIC	MC68HC908QT2CDW-ND	2.43	1.48	1.28	MC68HC908QT2CDW
128	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	8-Dip	MC68HC908QT4CP-ND	2.86	1.74	1.51	MC68HC908QT4CP
128	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	8-SOIC	MC68HC908QT4CDW-ND	2.86	1.74	1.51	MC68HC908QT4CDW
128	1.5K	2-Ch., 16-Bit	13	—	3.0-5.0	8	-40~+85	16-Dip	MC68HC908QY1CP-ND	2.28	1.39	1.20	MC68HC908QY1CP
128	1.5K	2-Ch., 16-Bit	13	—	3.0-5.0	8	-40~+85	16-SOIC	MC68HC908QY1CDW-ND	2.28	1.39	1.20	MC68HC908QY1CDW
128	1.5K	2-Ch., 16-Bit	13	—	3.0-5.0	8	-40~+85	16-TSSOP	MC68HC908QY1CDT-ND	2.54	1.55	1.34	MC68HC908QY1CDT
128	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	16-Dip	MC68HC908QY2CP-ND	2.69	1.64	1.41	MC68HC908QY2CP
128	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	16-SOIC	MC68HC908QY2CDW-ND	2.69	1.64	1.41	MC68HC908QY2CDW
128	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	16-TSSOP	MC68HC908QY2CDT-ND	2.86	1.74	1.51	MC68HC908QY2CDT
128	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	16-Dip	MC68HC908QY4CP-ND	3.03	1.94	1.76	MC68HC908QY4CP
128	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	16-SOIC	MC68HC908QY4CDW-ND	3.03	1.94	1.76	MC68HC908QY4CDW
128	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40~+85	16-TSSOP	MC68HC908QY4CDT-ND	3.33	2.14	1.93	MC68HC908QY4CDT
Accessory													
Demo Board for 908Q MCU 68HC08 Series									M68DEMO908QT4-ND	37.34	28.37	27.59	M68DEMO908QT4

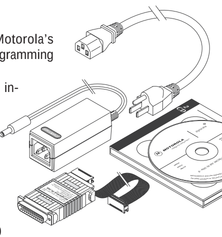
* 8-Pin packages have 5 I/O and 16-Pin have 13 I/O

68HC912 Family — 16-Bit

The 68HC12 CPU is upwardly compatible with the 68HC11 core and supports all registers, instructions, addressing modes and operating modes of the 68HC11.
Features: • Fully static design allowing operation down to DC • 16-bit accumulator • 20-bit ALU • 16-bit timer with built in prescaler • BDM (Background Debug Module) for faster debugging and non-intrusive, real time read/write capability to the memory and registers • SAE J1850 BDLC-D (Byte Data Link Control Module) for single wire communication with other BDLC MCUs • COP watchdog timer • Low power STOP and WAIT modes • SPI, SCI • High-level language optimization • 32/16 divide • 16 x 16 multiply

Flash (Bytes)	RAM (Bytes)	EEPROM (Bytes)	Timer	PWM	I/O	A/D	Features	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Motorola Part No.
32K	1K	768	8-Ch., 16-Bit	4-Ch., 8-Bit or 2-Ch., 16-Bit	63	8-Ch.,10-Bit	—	5.0	8.0	-40~+85	80-QFP	MC68HC912B32CFU8-ND	19.26	15.21	14.34	MC68HC912B32CFU8
60K	2K	1K	8-Ch., 16 Bit	4-Ch. 8-Bit	48	8-Ch.,10-Bit	CAN2.0	5.0	8.0	-40~+85	80-QFP	MC912D60ACFU8-ND *NEW!*	17.71	13.40	12.35	MC912D60ACFU8
128K	8K	2K	8-Ch., 16 Bit	8-Ch. 8-Bit	59	2, 8-Ch.,10-Bit	—	3.0	25.0	-40~+85	80-QFP	MC9S12A128BCFU-ND *NEW!*	17.62	13.33	12.29	MC9S12A128BCFU
128K	8K	2K	8-Ch., 16 Bit	8-Ch. 8-Bit	59	2, 8-Ch.,10-Bit	—	3.0	25.0	-40~+85	112-LQFP	MC9S12A128BCPV-ND *NEW!*	18.19	13.76	12.69	MC9S12A128BCPV
128K	8K	2K	8-Ch., 16-Bit	8-Ch. 8-Bit	91	2, 8-Ch.,16-Bit	2-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DB128BCPV-ND *NEW!*	18.45	14.47	13.63	MC9S12DB128BCPV
128K	8K	2K	8-Ch., 10-Bit	8-Ch. 8-Bit	59	2, 8-Ch.,16-Bit	2-CAN2.0	5.0	25.0	-40~+85	80-QFP	MC9S12DG128BCFU-ND *NEW!*	18.38	13.91	12.82	MC9S12DG128BCFU
128K	8K	2K	8-Ch., 16-Bit	8-Ch. 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DG128BCPV-ND *NEW!*	18.96	14.34	13.22	MC9S12DG128BCPV
128K	8K	2K	8-Ch., 16-Bit	8-Ch. 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~+85	80-QFP	MC9S12DJ128BCFU-ND *NEW!*	18.86	14.27	13.15	MC9S12DJ128BCFU
128K	8K	2K	8-Ch., 16-Bit	8-Ch. 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DJ128BCPV-ND *NEW!*	17.83	13.99	13.18	MC9S12DJ128BCPV
128K	8K	2K	8-Ch., 16-Bit	8-Ch. 8-Bit	91	2, 8-Ch.,10-Bit	3-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DT128BCPV-ND *NEW!*	17.92	14.06	13.24	MC9S12DT128BCPV
256K	12K	4K	8-Ch., 16 Bit	8-Ch. 8-Bit	59	2, 8-Ch.,10-Bit	—	5.0	25.0	-40~+85	80-QFP	MC9S12A256BCFU-ND *NEW!*	20.21	15.85	14.93	MC9S12A256BCFU
256K	12K	4K	8-Ch., 16 Bit	8-Ch. 8-Bit	59	2, 8-Ch.,10-Bit	—	5.0	25.0	-40~+85	112-LQFP	MC9S12A256BCPV-ND *NEW!*	20.73	16.27	15.32	MC9S12A256BCPV
256K	12K	4K	8-Ch., 16 Bit	8-Ch. 8-Bit	59	2, 16-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~+85	80-QFP	MC9S12DG256CCFU-ND *NEW!*	21.31	16.72	15.75	MC9S12DG256CCFU
256K	12K	4K	8-Ch., 16 Bit	8-Ch. 8-Bit	91	2, 16-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DG256CCPV-ND *NEW!*	21.84	17.13	16.14	MC9S12DG256CCPV
256K	12K	4K	8-Ch., 16 Bit	8-Ch. 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~+85	80-QFP	MC9S12DJ256CCFU-ND *NEW!*	23.00	18.04	17.00	MC9S12DJ256CCFU
256K	12K	4K	8-Ch., 16 Bit	8-Ch. 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DJ256CCPV-ND *NEW!*	23.30	18.28	17.22	MC9S12DJ256CCPV
256K	12K	4k	8-Ch., 16-Bit	8-Ch. 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DP256CCPV-ND *NEW!*	24.74	19.41	18.28	MC9S12DP256CCPV
256K	12K	4K	8-Ch., 16-Bit	8-Ch. 8-Bit	91	2, 8-Ch.,10-Bit	3-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DT256CCPV-ND *NEW!*	23.30	18.28	17.22	MC9S12DT256CCPV
512K	14K	4K	8-Ch., 16-Bit	8-Ch. 8-Bit	89	2, 8-Ch.,10-Bit	5-CAN2.0	5.0	25.0	-40~+85	112-LQFP	MC9S12DP512CPV-ND *NEW!*	25.48	19.99	18.83	MC9S12DP512CPV

MON08 Multilink

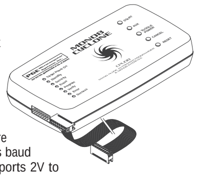


The MON08 Multilink is an easy-to-use, low-cost development tool for Motorola's 68HC908 FLASH MCUs. It provides in-circuit emulation, debugging and programming through the 68HC908's standard MON08 serial debug/breakpoint interface.

Features: Universal development tool for all MON08 68HC908s: • Real-time in-circuit emulation and debug • Fast in-circuit programming • Auto-detects baud rate and frequency • Provides optional overdrive clock to target • Small unobtrusive size (approx. 3" x 2" x 3/4") • Supports 2V to 5.5V 68HC08s • Automatically cycles power for security checks (up to 125 mA) • Universal power supply (included) • Complete Windows®-based integrated development environment: debugger, assembler, linker, programmer and simulator • Complete with sample of 68HC908GP32 FLASH MCU and comprehensive documentation.

M68MULTILINK08-ND $180.00

MON08 Cyclone



The MON08 Cyclone provides all the capabilities of the MON08 Multilink plus the ability to function as a stand alone programmer with push buttons and LEDs to control operation.

Cyclone Hardware: • Fast, in-circuit stand alone programming, simple push button and LED user interface • Host-based programming with scripting capability to execute a series of commands, automates programming of test routines, test execution, erase and final software programming • Real-time in-circuit emulation and debug • Auto-detects baud rate and frequency • Provides optional overdrive clock to target • Supports 2V to 5.5V 68HC908s • Automatically cycles power for security checks (up to 500mA) • Universal power supply (included). Complete Windows-based integrated development environment: • Debugger, assembler, linker, programmer and simulator

M68CYCLONE08-ND $423.75

In-Circuit Simulator (ICS)

Economical, Integrated Developing and Debugging Motorola's In-Circuit Simulator Kits are low cost tools for developing and debugging target systems incorporating Motorola's most popular 68HC05s and 68HC08s. They provide an innovative interface to a user's target system for Windows based editing, assembly, software simulation, and in-circuit simulation. In-circuit simulation allows you to use the actual inputs and outputs of your target during simulation of your code.
Features: • Windows Based Integrated Development Environment (IDE) with editor, assembler, debugger, and simulator: Run under Windows®3.x and Windows® 98. Examine and modify memory, registers, and I/O. Up to 64 instruction and register (accumulator, stack, index) break points. Several single stepping and run modes of execution. Trace buffer holds previously executed instructions and variables. Data variable display window. Simulates all I/O, interrupts, timers, and other on-chip hardware. Detects attempted use of uninitialized or unimplemented locations. Data logging and script commands for recording and automatic execution of a sequence of commands. On screen context-sensitive windows help. • In-Circuit Simulation: Emulation cable for connection to target system. Non-Realtime In-Circuit Emulation. • Program EPROM, OTP, EEPROM, and FLASH microcontrollers
Contents: • Windowed EPROM or FLASH MCU sample • Comprehensive Documentation: MCU Technical Data Books. Software and Hardware User's Manual. Application Guide/Text Book. MCU Technical Documentation CD-ROM. • Serial cable for PC to ICS connection • Wall Mount Power Supply • The 68HC08 In-Circuit Simulator Kits add the following capabilities: Real-time in-circuit emulation available except for clock control and communication. Real-time in-circuit debug using the 68HC08s MON08 serial debug/breakpoint capability. Runs under Windows NT and Windows 98.

Description	Digi-Key Part No.	Price Each
Simulator/Programmer for 68HC705B16	M68ICS05B-ND	122.98
Simulator/Programmer for 68HC705C8A/C9A	M68ICS05C-ND	122.98
Simulator/Programmer for 68HC705JP7/JJ7	M68ICS05JP-ND	122.98
Simulator/Programmer for 68HC705KJ1/J1A	M68ICS05KJ-ND	122.98
Simulator/Programmer for 68HC705P6A	M68ICS05P-ND	122.98
Simulator/Programmer for 68HC908JL3/JK3/JK1	M68ICS08JLJK-ND	345.79
Simulator/Programmer for 68HC908MR16/MR32	M68ICS08MR-ND	345.79
Simulator/Programmer for 68HC908RK2	M68ICS08RK2-ND	345.79
Simulator/Programmer for 68HC908JB8	M68ICS08JB-ND	345.79
Simulator/Programmer for 68HC908AB32	M68ICS08AB-ND	345.79
Simulator/Programmer for 68HC908KX8/KX2	M68ICS08KX-ND	345.79

MOTOROLA

Modular Evaluation System (MMEVS)

The Motorola Modular Evaluation System (MMEVS) is Motorola's economical, two-board emulator for the 68HC(7)05 and 68HC(9)08 family of microcontrollers. The MMEVS consists of a Platform Board and an Emulator Module (EM). Connected to your target system, the emulator replicates the actual target system MCU. An Integrated Development Environment (IDE) allows for quick edits and changes to assembly code, which makes design, debug and real-time evaluation of the target system as efficient as possible. Use this economical system to perform traditional debugging activities such as executing code in run or step mode, setting break points, monitoring or modifying CPU registers, memory and application variables, and creating log or script files to record test results or create test suites.

Features: • Real-time, non-intrusive, in-circuit emulation at the MCU's operating frequency • 64 hardware break points • Control of code execution in run or step mode • 64K bytes of fast emulation memory (SRAM) • Current limited target input/output connections • 6 Software-selectable oscillator clock sources • Command and response logging to save session history and/or to generate script files • SCRIPT command for automatic execution of a sequence of commands (such as system configuration setup and automated test runs) • Assembly source-level debugging • Host/emulator communications speeds as high as 57,600 baud • Extensive on-line MCU information via the CHIPINFO command • Integrated Development Environment (IDE) including editor, assembler, and assembly source-level debugger

Contents: • MMEVS Platform Board: IDE (including editor, assembler, debugger). 9-lead RS-232 serial cable. 9-to-25-pin serial cable adapter. MMEVS User Manuals. Power Supply. • Device Specific Emulation Module

Description	Digi-Key Part No.	Price Each
Evaluation System for 68HC705B16	KITMMEVS05B-ND	1057.53
Evaluation System for 68HC705C8A/C9A	KITMMEVS05C-ND	1057.53
Evaluation System for 68HC705JP7/JJ7	KITMMEVS05JP-ND	1057.53
Evaluation System for 68HC705KJ1/J1A	KITMMEVS05KJ-ND	1057.53
Evaluation System for 68HC908GP32	KITMMEVS08GP-ND	1587.80
Evaluation System for 68HC908JL3/JK3/JK1	KITMMEVS08JL-ND	1587.80
Evaluation System for 68HC908JB8	KITMMEVS08JB8-ND	1587.80
Evaluation System for 68HC908AB32	KITMMEVS08AB32-ND	1587.80
Evaluation System for 68HC908MR32/MR16	KITMMEVS08MR32-ND	1587.80
Evaluation System for 68HC908KX8/KX2	KITMMEVS08KX-ND	1587.80
Evaluation System for 68HC908QT/QY	KITMMEVS08QTQY-ND *NEW!*	1600.43
Evaluation System for 68HC05/08	M68MMPFB0508-ND	456.52

Modular Development System (MMDS)

The Motorola Modular Development System (MMDS) is a full-featured emulator system for developing embedded systems using 68HC(7)05 and 68HC(9)08 microcontrollers. In addition to incorporating the debug features of the Motorola Modular Evaluation System (MMEVS), the MMDS adds advanced features such as real-time, dual-ported memory and a bus state analyzer to capture user-defined bus cycles or events. Use the dual-ported memory to tune filter circuits or monitor changes to program variables while your program is running at full speed. Verify nested or complex program flows using the bus state analyzer's full range of sequenced or logical event triggering and data capture modes. These added features help users develop, debug, and deliver 68HC05 or 68HC08 products in less time.

Features: • Real-time, non-intrusive, in-circuit emulation at the operating frequency of the target device • Control of code execution in run or step mode • Real-time bus state analyzer: 8K x 64 real-time trace buffer. Display of real-time trace data. Four hardware triggers. Nine triggering modes up to 8190 pre- or post-trigger points for trace data. 16 general-purpose logic chips. 16-Bit time tag, or optional 24-Bit time tag. • 4 complex break points (any combination of address, data, control, and/or I/O • 64 instruction break points • 32 real-time variables • 32 bytes of real-time memory • 64K bytes of fast emulation memory (SRAM) • Current limited target input/output connections • 6 software-selectable oscillator clock sources • Command and response logging to save session history and/or to generate script files • SCRIPT command for automatic execution of a sequence of commands (such as system configuration setup and automated test runs) • Assembly source-level debugging • Host/emulator communications speeds as high as 57600 baud • Extensive on-line device information via CHIPINFO command • Integrated Development Environment (IDE) including editor, assembler, and source-level debugger

Description	Digi-Key Part No.	Price Each
Modular Development Kit for 68HC705B16	KITMMDS05B-ND	3662.53
Modular Development Kit for 68HC705C8A/C9A	KITMMDS05C-ND	3662.53
Modular Development Kit for 68HC705JP7/JJ7	KITMMDS05JP-ND	3662.53
Modular Development Kit for 68HC705KJ1/J1A	KITMMDS05KJ-ND	3662.53
Modular Development Kit for 68HC908JL3/JK3/JK1	KITMMDS08JL-ND	4174.09
Modular Development Kit for 68HC908JB8	KITMMDS08JB8-ND	4174.09
Modular Development Kit for 68HC908AB32	KITMMDS08AB32-ND	4174.09
Modular Development Kit for 68HC908MR32/MR16	KITMMDS08MR32-ND	4174.09
Modular Development Kit for 68HC908KX8/KX2	KITMMDS08KX-ND	4174.09
Modular Development Kit for 68HC05/08	M68MMDS0508-ND	3148.62

Contents: • Station module with built-in power supply: Compact: 15.38" D x 10.19" W x 2.75" H (39cm D x 25.9cm W x 7cm H). Lightweight: 6 pounds (2.7kg). Built-in power: 85 to 264 VAC. Device-specific Emulator Module and flexible target system cable. • Two logic clip cable assemblies • 9-lead RS-232 serial cable • 9 to 25 pin serial cable adapter • IDE with editor, assembler, and debugger • MMDS User Manuals • MMDS tutorial

32-Bit Microcontrollers

Key	Description	Digi-Key Part No.	Price Each	Motorola Part No.
		Development Tools		
A	Evaluation Board for MCF5206	M5206AN-ND	527.09	M5206AN
B	Evaluation Board for MCF5307	M5307C3-ND	643.11	M5307C3
C	Evaluation Board for MPC555	MPC555CME-ND	737.59	MPC555CME
D	Evaluation Board for MPC561-564	MPC564EVB-ND	1015.94	MPC564EVB
E	Evaluation Board for MPC565-566	MPC566EVB-ND	1015.94	MPC566EVB
F	Evaluation Board for MMC2107	MMCEVB2107-ND	580.14	MMCEVB2107

MCF5XXX Family

M5206AN Features: • MCF5206 processor running at 25MHz • Monitor/ Debugger programmed on 128K byte of FLASH with another 128K byte of FLASH available for customer use; FLASH expandable to 1M • M-byte of DRAM SIMM, user expandable to 32M • One ISA-slot for ethernet card • 16-Bit ethernet card included • Programmable DUART • Debug module interface connector • Serial cable • All CPU signals available for user accessibility and system expansion • 6” x 10” x 0.85” board size • Power Requirement: +5 volts regulated or +7 1/2 to +12 volts (not included) (recommend Digi-Key part number T353-P5P-ND)

M5307C3 Features: • MCF5307A processor running at 90MHz internal, bus speed of 45MHz • Monitor/Debugger programmed on 1 M-byte of FLASH with 896K bytes of FLASH available for customer use • On board ethernet connectivity via RJ-45 connector • 4-channel DMA (2 internal, 2 external) • Dual programmable UARTs • Debug module interface connector • Serial cable • All CPU signals available • Power requirements are +7 -9 volts DC regulated or unregulated (not included) (recommend Digi-Key part number T353-P5P-ND)

MPC5XX Family

MPC555CME Features: • 40MHz core with floating point unit • 26K bytes of static RAM • 448K bytes Flash EEPROM memory with 5-V programming (CMF) • General purpose I/O support • Two Time Processor Units (TPU3) • 18-Channel Modular I/O System (MIOS1) • U-Bus System Interface Unit (USIU) • 2 CAN Ports with transceivers (PCA82C250) • LCD interface connector with contrast adjust, memory mapped (80 or 160 character) • 10 LEDs • 4 push button switches • Power port with power supply access • BDM debug development connector • All I/O connectors on .1” grid • Solderless and standard prototyping areas provided • 6 to 25VDC Input (included) • 7 x 7.6” board size • Kit includes a wiggler for interface to a computer • User manual included in kit

MPC564EVB Features: • Standard 32-bit data memory: 512K byte Fast SRAM, 2 M-byte Flash EPROM • BDM Debug development connector • Nexus 5001 50 pin standard connector • 10/100 Ethernet • 2 CAN Ports with transceivers • MC33394 Multi Output Power Supply with 1 CAN Port and transceiver • 2 serial ports with DB-9 connectors • LCD Interface Connector with Contrast Adjust, Memory Mapped • Solderless and Standard prototyping areas provided • 6 to 25VDC Input (included)

M-CORE Family

MMCEVB2107 Features: • 512K-by-16 FLASH memory, at 90 nanoseconds • Two 64K-by-16 SRAM memory, at 70 nanoseconds • Power supply • 3.3-volt power regulator • Two RS232 channels for serial communication • 14-pin JTAG/OnCE (On-Chip Emulation) debug connector • Three 40-pin I/O and interrupt connectors • Separate proto board and ribbon cables • Address decoding: direct chip select from processor • A Motorola FLASH programmer • PicoBug monitor software and GNU/GDB debugger **Dimensions:** 5.75” x 6.0” (146 x 152 mm) **System Requirements:** • Windows 95 or Windows NT • Pentium (or equivalent) microprocessor, 16 megs of RAM • 50 megabytes of free hard-disk space • SVGA color monitor • RS232 serial-communication port • Power requirement is 12VDC (included)

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Oper. Volt (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Devel-opment Tools	Digi-Key Part No.	Price Each			Motorola Part No.
													1	25	100	
MCF5XXX Family																
—	512	—	2	2 Async.	—	—	5	16	0~70	160-QFP	A	MCF5206FT16A-ND	22.30	17.49	16.48	MCF5206FT16A
—	512	—	2	2 Async.	—	—	5	25	0~70	160-QFP	A	MCF5206FT25A-ND	24.39	19.13	18.02	MCF5206FT25A
—	512	—	2	2 Async.	—	—	5	33	0~70	160-QFP	A	MCF5206FT33A-ND	27.73	21.75	20.49	MCF5206FT33A
—	4K	—	2	2 Async.	—	—	3.3	66	0~70	208-FQFP	B	MCF5307FT66B-ND*	25.16	19.74	18.59	MCF5307FT66B
—	4K	—	2	2 Async.	—	—	3.3	90	0~70	208-FQFP	B	MCF5307FT90B-ND*	33.14	25.99	24.49	MCF5307FT90B
MPC5XX Family																
32K	—	448K	50-Ch.	QSMCM	2 QADC64	8	3.3	40	-40~+85	272-PBGA	C	MPC555LFMZP40-ND	80.71	69.11	65.33	MPC555LFMZP40
42K	—	—	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40~+85	388-PBGA	D	MPC561CZP40-ND	42.64	32.41	31.51	MPC561CZP40
42K	—	—	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40~+85	388-PBGA	D	MPC562CZP40-ND	44.74	37.26	35.06	MPC562CZP40
42K	—	512K	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40~+85	388-PBGA	D	MPC563CZP40-ND	63.88	53.20	50.06	MPC563CZP40
42K	—	512K	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40~+85	388-PBGA	D	MPC564CZP40-ND	73.98	59.91	57.97	MPC564CZP40
46K	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40~+85	388-PBGA	E	MPC565CZP40-ND	86.34	73.93	69.88	MPC565CZP40
46K	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	56	-40~+85	388-PBGA	E	MPC565CZP56-ND	90.66	77.63	73.38	MPC565CZP56
46K	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40~+85	388-PBGA	E	MPC566CZP40-ND	94.98	81.32	76.88	MPC566CZP40
M-CORE Family																
8K	—	128K	Dual 4-Ch.	Dual SCI, SPI	Queued 8-Ch., 10-Bit	—	2.7-3.6	33	-40~+85	100-LQFP	F	MMC2107CFCPU33-ND	22.54	17.68	16.66	MMC2107CFCPU33
683XX Family																
—	—	—	GPT	SCI, Queued SPI	—	—	5	16	-40~+85	144-LQFP	—	MC68331CPV16-ND	15.89	12.02	11.09	MC68331CPV16
—	—	—	GPT	SCI, Queued SPI	—	—	5	16	-40~+85	132-PQFP	—	MC68331CFC16-ND	16.95	14.81	13.02	MC68331CFC16
2K	—	—	TPU	SCI, Queued SPI	—	—	5	25	-40~+85	132-PQFP	—	MC68332ACFC25-ND	21.35	16.98	16.03	MC68332ACFC25
2K	—	—	TPU	SCI, Queued SPI	—	—	5	16	-40~+85	132-PQFP	—	MC68332GCFC16-ND	19.63	15.52	14.64	MC68332GCFC16
2K	—	—	TPU	SCI, Queued SPI	—	—	5	16	-40~+85	144-LQFP	—	MC68332ACPV16-ND	18.04	13.64	12.58	MC68332ACPV16
2K	—	—	TPU	SCI, Queued SPI	—	—	5	20	-40~+85	144-LQFP	—	MC68332ACPV20-ND	18.94	14.33	13.21	MC68332ACPV20
2K	—	—	TPU	SCI, Queued SPI	—	—	5	16	-40~+85	144-LQFP	—	MC68332GCPV16-ND	18.04	13.64	12.58	MC68332GCPV16
2K	—	—	TPU	SCI, Queued SPI	—	—	5	20	-40~+85	144-LQFP	—	MC68332GCPV20-ND	18.94	14.33	13.21	MC68332GCPV20
7.5K	—	—	TPU, CTM4	SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5	20	-40~+85	160-QFP	—	MC68336ACFT20-ND	27.94	21.92	20.64	MC68336ACFT20
7.5K	—	—	TPU, CTM4	SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5	20	-40~+85	160-QFP	—	MC68336GCFT20-ND	27.94	21.92	20.64	MC68336GCFT20
7.5K	—	—	TPU, CTM4	TOUCAN, SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5	20	-40~+85	160-QFP	—	MC68376BGMFT20-ND	30.17	24.51	23.22	MC68376BGMFT20
2K	—	—	TPU	SCI, Queued SPI	—	—	3-5	16	-40~+85	144-LQFP	—	MC68LK332ACPV16-ND	18.18	14.27	13.44	MC68LK332ACPV16
2K	—	—	TPU	SCI, Queued SPI	—	—	3-5	16	-40~+85	144-LQFP	—	MC68LK332GCPV16-ND	18.18	14.27	13.44	MC68LK332GCPV16

*4-Channel DMA

Digital Signal Processors — DSP56800 Core

Program ROM (16-Bit)	Program RAM (16-Bit)	Additional RAM (16-Bit)	Data ROM (16-Bit)	Timer	I/O	Serial	Other Features	Operating Voltage (V)	Bus Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Motorola Part No.
												1	25	100	
32K	128K	3.5K	2K	3-16-Bit Timers	16	2 SPI	—	2.7	70	100-LQFP	DSP56824BU70-ND	14.40	11.60	10.64	DSP56824BU70

Digital Signal Processors — DSP56300 Core

On Chip RAM (24-Bit)	Bootstrap ROM (24-Bit)	Timer	I/O	Serial	Other Features	Operating Voltage (V)	Bus Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Motorola Part No.
										1	25	100	
8K	3K	3	42	2-ESSI	DMA, JTAG	3.3	80	208-TQFP	DSP56301PW80-ND	52.26	43.53	40.95	DSP56301PW80
8K	3K	3	42	2-ESSI, SCI	PCI, ISA, JTAG	3.3	100	208-LQFP	DSP56301PW100-ND *NEW!*	56.43	47.00	44.22	DSP56301PW100
8K	3K	3	42	2-ESSI, SCI	PCI, ISA, JTAG	3.3	100	252-BGA	DSP56301VF100-ND *NEW!*	56.43	47.00	44.22	DSP56301VF100
128K	192	3	34	2-ESSI	DMA, JTAG	3.3	100	196-BGA	DSP56303VF100-ND	30.75	24.12	22.72	DSP56303VF100
128K	192	3	42	2-ESSI, SCI	DMA, JTAG	1.8/3.3	150	196-BGA	DSP56311VF150-ND *NEW!*	62.36	51.94	48.86	DSP56311VF150
128K	192	3	34	2-ESSI, SCI	DMA, JTAG	3.3	100	196-BGA	XC56309VF100A-ND *NEW!*	44.24	36.85	34.67	XC56309VF100A
64K	192	3	34	2-ESSI, SCI	DMA, JTAG	1.8/3.3	160	196-BGA	XC56L307VF160-ND *NEW!*	45.85	38.19	35.93	XC56L307VF160

Flash Digital Signal Processors

Program Flash (16-Bit)	Program RAM (16-Bit)	Flash (Data) (16-Bit)	RAM (Data) (16-Bit)	Boot Flash (16-Bit)	Timer	I/O	Serial	A/D	PWM	Other Features	Operating Voltage (V)	Bus Freq. (MHz)	Package	Digi-Key Part No.	Price Each			Motorola Part No.
															1	25	100	
8K	1K	2K	1K	2K	2 Quadrature Timer Modules	11	SPI, SCI	Dual, 4-Input, 12-Bit	6-Ch.	Internal Oscillator	3.3	80	48-LQFP	DSP56F801FA80-ND	11.85	9.01	8.45	DSP56F801FA80
31.5K	0.5K	4K	2K	2K	4 Quadrature Timer Modules	16	SPI, SCI	Dual, 4-Input, 12-Bit	6-Ch.	CAN, Quad Decoder	3.3	80	100-LQFP	DSP56F803BU80-ND	18.81	14.83	13.98	DSP56F803BU80
31.5K	0.5K	4K	2K	2K	4 Quadrature Timer Modules	32	SPI, 2 SCI	Dual, 4-Input, 12-Bit	Two 6-Ch.	CAN, 2 Quad Decoder Modules	3.3	80	144-LQFP	DSP56F805FV80-ND	22.51	17.97	16.97	DSP56F805FV80
31.5K	0.5K	2K	4K	2K	1 Quadrature Timer Module, 1 TOD	16 Dedicated 30 Shared	2 SPI, 2 SCI, SSI	—	—	—	Dual Power Supply, 3.3 and 2.5	80	100-LQFP	DSP56F826BU80-ND	17.46	13.69	12.90	DSP56F826BU80
60K	2K	8K	4K	2K	4 Quadrature Timer Modules	32	SPI, 2 SCI	Quad, 4-Input, 12-Bit	Two 6-Ch.	CAN, 2 Quad Decoder Modules	3.3	80	160-LQFP	DSP56F807PY80-ND	24.12	19.34	18.28	DSP56F807PY80
60K	2K	8K	4K	2K	4 Quadrature Timer Modules	32	SPI, 2 SCI	Quad, 4-Input, 12-Bit	Two 6-Ch.	CAN, 2 Quad Decoder Modules	3.3	80	160-BGA	DSP56F807VF80-ND	26.98	21.78	20.61	DSP56F807VF80

NEW! DSP56303EVM Kit

The DSP56303 Evaluation Module is designed as a low-cost platform for developing real-time software and hardware products to support applications in wireless, telecommunications, and multimedia products using multi-line voice/date/fax processing, videoconferencing, audio applications, control, and general digital signal processing. PC-compatible computer (90MHz or higher) running Windows 95 or NT4 with an RS-232 serial port. 12 Mbytes RAM, 3-1/2 inch diskette drive, CD-ROM drive, hard drive with 20 Mbytes of free disk space. Power supply 7-9 V AC or DC 500 mA with 2.1 mm coaxial connector, (not included) (Recommended Digi-Key part number T353-P5P-ND).

Kit Contents: • DSP56303EVM Board • DSP56300 Literature • Suite56 for Motorola DSP 563xx • Motorola The DSP56300 Family Documentation • Domain Technologies Debugger for DSP563xxEVM

DSP56303EVM-ND..**$307.70**

NEW! DSP56309EVM Kit

The DSP56309 Evaluation Module (DSP56309EVM) is a low-cost platform for developing real-time software and hardware products to support a new generation of wireless, telecommunications, and multimedia applications. The DSP56309EVM targets applications requiring a large amount of on-chip memory, such as wireless infrastructure applications. PC compatible computer (Pentium-90 MHz or higher) running Windows 95 (or higher) with an RS-232 serial port. Requires Power supply 7-9 V DC, 500mA, (not included) (recommended Digi-Key part number T353-P5P-ND).

Kit Contents: • DSP56309EVM Board • GUI Debugger software Disk • Assembler Linker-Test files Disk • DSP56309EVM User's manual and other Documentation.

DSP56309EVM-ND..**$338.54**

NEW! DSP56311EVM Kit

The DSP56311 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56311 device and provide a hardware tool to allow development of applications that use the DSP56311. The DSP56311EVM includes a DSP56311 device, peripheral expansion connectors, external memory, and a voice codec. THe peripheral expansion connectors allow for signal monitoring and user-feature expandability.

Kit Contents: • DSP56311EVM board • Parallel port extender cable • Plastic standoffs and plastic screws • DSP56300 Tools Software • Device and tools documentation • Tutorial/example software • DSP56311EVM Development Tools Release Notes • DSP56311EVM Product Installation Guide

DSP56311EVM-ND..**$409.96**

NEW! DSP56F800DEMO Kit

The 56F800 Demonstration Board is used to demonstrate the abilities of the 56F800 family and to provide a hardware tool allowing the development of applications that use the 56F800 devices. The DSP56F800DEMO Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F800 silicon and tools. It also provides an excellent cost effective vehicle for hardware and software development. The DSP56F800DEMO Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98, and Windows NT 4.0.

Kit Contents: • Demo Board • Complimentary CodeWarrior License, 8K word Program Memory Limit • SDK CD • Parallel cable • Instructions for kit • Training CD • US power supply

DSP56F800DEMO-ND..**$62.63**

DSP56F801EVM Kit

The DSP56F801EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F801 silicon and tools. It can be used standalone, or in conjunction with our broad range of modular motion control development hardware. The DSP56F801EVM Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98, and Windows NT 4.0.

Kit Contents: • DSP56F801EVM Installation Guide • DSP56F801 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 Parallel Port Cable DB25 male to DB25 female • Metrowerks CodeWarrior for Motorola DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F801EVM-ND..**$349.97**

DSP56F803EVM Kit

The DSP56F803EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F803 silicon and tools. It can be used standalone, or in conjunction with our broad range of modular motion control development hardware. The DSP56F803EVM Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98, and Windows NT 4.0.

Kit Contents: • DSP56F803EVM Installation Guide • DSP56F803 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 Parallel Port Cable DB25 male to DB25 female • Metrowerks CodeWarrior for Motorola DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F803EVM-ND..**$349.71**

DSP56F805EVM Kit

The DSP56F805EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F805 silicon and tools. It can be used standalone, or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98, and Windows NT 4.0.

Kit Contents: • DSP56F805EVM Installation Guide and DSP56F805 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 Parallel Port Cable DB25 male to DB25 female • Metrowerks CodeWarrior for Motorola DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F805EVM-ND..**$394.13**

DSP56F807EVM Kit

The DSP56F807EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F807 silicon and tools. It can be used standalone, or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98, and Windows NT 4.0.

Kit Contents: • DSP56F807EVM Installation Guide and DSP56F807 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 Parallel Port Cable DB25 male to DB25 female • Metrowerks CodeWarrior for Motorola DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F807EVM-ND..**$349.97**

DSP56F826EVM Kit

The DSP56F826EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F826 silicon and tools. It can be used standalone, or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98, and Windows NT 4.0.

Kit Contents: • DSP56F826EVM Installation Guide and DSP56F826 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 Parallel Port Cable DB25 male to DB25 female • Codec sample rate selector • Peripheral Daughter Card Expansion Connector to allow the user to connect his own SCI, SSI, SPI or GPIO compatible peripheral to the DSP • Memory Daughter Card Expansion Connector to allow the user to connect his own memory or memory device to the DSP • 16-Bit stereo codec interface • Metrowerks CodeWarrior for Motorola DSP evaluation CD-ROM (30 day) • Embedded Software Development Tools (SDK) CD-ROM

DSP56F826EVM-ND..**$349.71**

NEW! DSP56L307EVM Kit

The DSP56L307 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56L307 and provide a hardware tool allowing the development of applications that use the DSP56L307. It is an evaluation module board that includes a DSP56L307 part, perpheral expansion connectors, external memory, and a voice codec. The peripheral expansion connectors are used for signal monitoring and user-feature expandability. The DSP56L307EVM is used to facilitate the evaluation of varuious features of the DSP56L307. It can be used to develop real-time software and hardware products based on the DSP56L307. It provides the features necessary for a user to write and debug software, to demonstrate the functionality of that software, and to be able to interface with the customer's application specific device(s). The DSP56L307EVM is flexible enough to allow the user to fully exploit the features of the DSP56L307.

Kit Contents: • DS56L307EVM board • Parallel port extender cable • Plastic standoffs and plastic screws • Power Supply, 12V, 1.2 Amps • Suite56 Software Development Tools CD-ROM • Documentation CD-ROM

DSP56L307EVM-ND **$468.52**

STATIC PROTECTION

Protection of static sensitive parts is a MUST in today's semiconductor market.
To ensure the quality that Digi-Key customers have come to expect,
the Digi-Key static control program includes proper static safety protection in the following areas:

- ***Receiving, Incoming Inspection, and QC***
- ***Order Picking***
- ***Final Inspection***
- ***Packaging and Shipping***

Shielded metallized bags are used in order picking, and anti-static, non-CFC, photo degradable packaging peanuts are used in packaging and shipping.

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• Please Note: SO-x packages are the same as x-SOIC packages •

MOTOROLA MICROCONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC68S711E9CFN2-ND	4MHz, 8-Bit 12K OTP MCU	52-PLCC	15.56	12.10	11.38
MMC2107CFCPV33-ND	33MHz, 16-Bit 128K FLASH MCU	144-LQFP	22.54	17.68	16.66

MOTOROLA MICROPROCESSORS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
M68LC302CPU16VCT-ND	Integrated Multiprotocol Processor *NEW!*	100-LQFP	28.45	22.31	21.02
M68LC302CPU20VCT-ND	Integrated Multiprotocol Processor *NEW!*	100-LQFP	29.29	22.98	21.64
MC68020RC16E-ND	16MHz, 32-Bit Embedded MPU	114-CPGA	149.45	—	—
MC68060RC50-ND	50MHz, 32-Bit Embedded MPU	206-PGA	478.53	—	—
MC68302CFC16C-ND	16MHz, Integrated Multiprotocol MPU	132-PQFP	32.99	26.95	25.54
MC68302CPV16VC-ND	16MHz, Integrated Multiprotocol MPU *NEW!*	144-LQFP	43.15	32.79	31.88
MC68302FC16C-ND	16MHz, Integrated Multiprotocol MPU	132-PQFP	27.98	22.64	21.43
MC68302FC20C-ND	20MHz, Integrated Multiprotocol MPU	132-PQFP	30.67	24.95	23.64
MC68302FC25C-ND	25MHz, Integrated Multiprotocol MPU	132-PQFP	33.36	27.27	25.85
MC68302PV16C-ND	16MHz, Integrated Multiprotocol MPU	144-TQFP	27.31	22.06	20.88
MC68302PV16VC-ND	16MHz, Integrated Multiprotocol MPU	144-TQFP	33.41	27.30	25.89
MC68302PV20C-ND	20MHz, Integrated Multiprotocol MPU	144-TQFP	30.00	24.37	23.09
MC68302PV25C-ND	25MHz, Integrated Multiprotocol MPU	144-TQFP	32.70	26.69	25.30
MC68302PV33C-ND	33MHz, Integrated Multiprotocal MPU *NEW!*	144-LQFP	38.29	29.09	28.29
MC68302RC16C-ND	16MHz, Integrated Multiprotocol MPU	132-PGA	76.93	—	—
MC68306FC16B-ND	16MHz, 32-Bit Integrated MPU	132-PQFP	19.07	15.05	14.19
MC68332ACFC16-ND	16MHz, 32-Bit Integrated MPU	132-PQFP	18.81	16.43	14.45
MC68332ACFC20-ND	20MHz, 32-Bit Integrated MPU	132-PQFP	19.74	17.25	15.16
MC68334GCFC16-ND	16MHz, MPU with DMA, UART, System Integration	132-PQFP	20.08	15.90	15.00
MC68334GFC16-ND	16MHz, MPU with DMA, UART, System Integration	132-PQFP	20.08	15.90	15.00
MC68340FT16E-ND	16MHz, 32-Bit MPU with DMA	144-PQFP	24.91	20.01	18.92
MC68340FT25E-ND	25MHz, 32-Bit MPU with DMA	144-PQFP	32.87	26.84	25.45
MC68340PV16E-ND	16MHz, 32-Bit MPU with DMA	144-LQFP	25.47	20.49	19.38
MC68340PV25E-ND	25MHz, 32-Bit MPU with DMA	144-LQFP	34.52	28.26	26.80
MC68360CEM25L-ND	25MHz, 32-Bit QUICC™ MPU *NEW!*	240-FQFP	62.02	51.66	48.60
MC68360EM25K-ND	25MHz, 32-Bit QUICC™ MPU	240-PQFP	54.66	45.78	43.56
MC68360EM25L-ND	25MHz, 32-Bit QUICC™ MPU	240-PQFP	54.66	45.78	43.56
MC68360EM25VL-ND	25MHz, 32-Bit 3.3V QUICC™ MPU	240-PQFP	64.94	54.79	52.18
MC68360EM33L-ND	33MHz, 32-Bit QUICC™ MPU *NEW!*	240-FQFP	62.02	51.66	48.60
MC68360ZP25L-ND	25MHz, 32-Bit QUICC™ MPU *NEW!*	357-PBGA	56.25	46.85	44.08
MC68360ZP25VL-ND	25MHz, 32-Bit QUICC™ MPU *NEW!*	357-PBGA	67.81	54.91	53.13
MC68EC020FG25-ND	25MHz, 32-Bit Enhanced MPU	100-PQFP	26.63	21.48	20.33
MC68EC030FE25C-ND	25MHz, 32-Bit Enhanced MPU	132-CQFP	40.30	33.27	31.59
MC68EC030FE40C-ND	40MHz, 32-Bit Enhanced MPU	132-CQFP	54.39	45.55	43.33
MC68EC040FE33A-ND	33MHz, 32-Bit Enhanced MPU	184-CQFP	120.15	—	—
MC68EC040RC25A-ND	25MHz, 32-Bit Enhanced MPU	179-PGA	108.66	—	—
MC68EC040RC33A-ND	33MHz, 32-Bit Enhanced MPU	179-PGA	149.99	—	—
MC68EC060RC50-ND	50MHz, 32-Bit Embedded MPU	206-PGA	140.09	—	—
MC68EC060RC66-ND	66MHz, 32-Bit Embedded MPU	206-PGA	288.32	—	—
MC68EN302PV20BT-ND	20MHz, Integrated Multiprotocol MPU	144-TQFP	36.74	30.18	28.64
MC68EN302PV25BT-ND	25MHz, Integrated Multiprotocol MPU	144-TQFP	43.38	35.94	34.14
MC68EN360CEM25L-ND	25MHz, 32-Bit QUICC™ w/Ethernet Support *NEW!*	240-FQFP	70.04	56.71	54.88
MC68EN360EM25L-ND	25MHz, 32-Bit QUICC™ w/Ethernet Support	240-PQFP	61.80	52.04	49.54
MC68EN360EM25VL-ND	25MHz, 32-Bit 3.3V QUICC™ with Ethernet Support	240-PQFP	72.02	61.01	58.14
MC68EN360EM33K-ND	33MHz, 32-Bit QUICC™ w/Ethernet Support	240-PQFP	66.91	56.52	53.84
MC68EN360RC25K-ND	25MHz, 32-Bit QUICC™ w/Ethernet Support	240-PGA	133.62	—	—
MC68EN360ZP25L-ND	25MHz, 32-Bit QUICC™ w/Ethernet Support *NEW!*	357-PBGA	63.62	52.99	49.86
MC68EN360ZP25VL-ND	25MHz, 32-Bit 3.3V QUICC™ with Ethernet Support	144-TQFP	71.45	60.51	57.66
MC68HC000FN16-ND	16MHz, 32-Bit Low Power MPU	68-PLCC	12.28	9.37	8.79
MC68HC000FN16TR-ND	16MHz, 32-Bit Low Power MPU	68-PLCC	2120.75/250		
MC68LC040RC25A-ND	25MHz, 32-Bit Low Power MPU	179-PGA	161.25	—	—
MC68LC060RC66-ND	66MHz, 32-Bit Low Power MPU	206-PGA	468.31	—	—
MC68LC302CPU16CT-ND	16MHz, LP Integrated MultiprotocolProcessor *NEW!*	100-LQFP	20.36	15.98	15.05
MC68LC302CPU20CT-ND	20MHz, LP Integrated MultiprotocolProcessor *NEW!*	100-LQFP	24.40	19.15	18.03
MC68LC302PU16CT-ND	16MHz, LP Integrated Multiprotocol Processor	100-TQFP	19.68	15.56	14.68
MC68LC302PU16VCT-ND	16MHz, LP Integrated MultiprotocolProcessor *NEW!*	100-LQFP	27.88	21.87	20.60
MC68LC302PU20CT-ND	20MHz, LP Integrated Multiprotocol Processor	100-TQFP	23.12	18.49	17.47
MC68LC302PU20VCT-ND	20MHz, LP Integrated MultiprotocolProcessor *NEW!*	100-LQFP	28.71	22.52	21.21
MC68LC302PU25CT-ND	25MHz, LP Integrated Multiprotocol Processor	100-TQFP	26.54	21.41	20.25
MC68MH360EM25L-ND	25MHz, QUICC™ MPU w/Ethernet Support *NEW!*	240-FQFP	67.94	55.01	53.23
MC68MH360EM33L-ND	33MHz, QUICC™ MPU w/Ethernet Support *NEW!*	240-FQFP	74.88	60.63	58.67
MC68MH360ZP25VL-ND	25MHz, QUICC™ MPU w/Ethernet Support *NEW!*	357-PBGA	77.39	66.27	62.64
MC68SEC000FU16-ND	16MHz, 32-Bit LP Embedded MPU	64-QFP	11.10	8.40	7.86
MPC106ARX66CG-ND	PowerPC PCI Bridge/Memory Controller	304-CBGA	53.35	44.63	42.45
MPC106ARX83DG-ND	PowerPC PCI Bridge/Memory Controller	304-CBGA	71.35	60.43	57.58
MPC180LMB-ND	66MHz, Security Processor *NEW!*	100-LQFP	20.96	16.44	15.49
MPC603RRX300LC-ND	300MHz, 32-Bit MPC603r PowerPC RISC MPU	255-CBGA	82.32	—	—
MPC740ARX233LH-ND	233MHz, 32-Bit PowerPC RISC MPU	255-CBGA	79.51	—	—
MPC740ARX266LH-ND	266MHz, 32-Bit PowerPC RISC MPU	255-CBGA	110.88	—	—
MPC750ARX266LH-ND	266MHz, 32-Bit PowerPC RISC MPU with L2 Cache Support	360-CBGA	121.97	—	—
MPC852TVR50-ND	50MHz, PowerQUICC II™ Integrated Communication Processor *NEW!*	256-PBGA	18.36	14.40	13.57
MPC852TVR66-ND	66MHz, PowerQUICC II™ Integrated Communication Processor *NEW!*	256-PBGA	20.75	16.28	15.33
MPC852TVR80-ND	80MHz, PowerQUICC II™ Integrated Communication Processor *NEW!*	256-PBGA	23.44	18.39	17.32
MPC852TVR100-ND	100MHz, PowerQUICC II™ Integrated Communication Processor *NEW!*	256-PBGA	26.97	21.16	19.93
MPC8260ACZUMHBB-ND	PowerQUICC II™ Integrated Communication Processor *NEW!*	480-TBGA	149.14	129.37	123.60
MPC8260AZUMHBB-ND	PowerQUICC II™ Integrated Communication Processor *NEW!*	480-TBGA	142.00	—	—
MPC8260AZUPJDB-ND	PowerQUICC II™ Integrated Communication Processor *NEW!*	480-TBGA	169.56	—	—
MPC8264AZUPIBB-ND	PowerQUICC II™ Integrated Communication Processor *NEW!*	480-TBGA	188.38	—	—

MOTOROLA ADVANCED CLOCK GENERATORS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
	NEW! Buffers NEW!				
MC100ES6111FA-ND	Low Voltage Differential Fanout Buffer	32-LQFP	12.95	9.79	9.03
MC100ES6210FA-ND	Low Voltage Differential Fanout Buffer	32-LQFP	12.95	9.79	9.03
MC100ES6220TB-ND	Low Voltage Dual 1:10 Differential Fanout Buffer	52-LQFP	14.75	11.15	10.28
MC100ES6221TB-ND	Low Voltage 1:20 Differential Fanout Buffer	52-LQFP	14.75	11.15	10.28
MC100ES6222TB-ND	Low Voltage 1:15 Differential Fanout Buffer	52-LQFP	14.75	11.15	10.28
MC100ES6226FA-ND	Low Voltage 1:9 Differential Clock Driver	32-LQFP	11.30	8.55	7.88
MC100ES6254FA-ND	Low Voltage Differential Fanout Buffer	32-LQFP	11.30	8.55	7.88
MPC940LFA-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	8.85	6.04	5.75
MPC941FA-ND	Low Voltage 1:27 Clock Distribution Chip	48-LQFP	11.78	8.91	8.22
MPC942PFA-ND	Low Volatge 1:18 Clock Distribution Chip	32-LQFP	8.85	6.04	5.75
MPC9109FA-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	6.16	4.40	4.00
MPC9315FA-ND	Low Voltage CMOS PLL Clock Driver	32-LQFP	8.60	5.87	5.59
MPC9443FA-ND	1:16 LVCMOS Clock Fanout Buffer	48-LQFP	9.34	6.38	6.07
MPC9446FA-ND	1:10 LVCMOS Clock Distribution Buffer	32-LQFP	7.05	5.04	4.58
MPC9447FA-ND	1:9 LVCMOS Clock Fanout Buffer	32-LQFP	7.05	5.04	4.58
MPC9448FA-ND	1:12 LVCMOS Clock Fanout Buffer	32-LQFP	7.05	5.04	4.58
MPC9449FA-ND	1:15 PECL/LVCMOS Clock Fanout Buffer	52-LQFP	8.30	5.93	5.39
MPC9456FA-ND	1:10 LVCMOS Clock Distribution Buffer	32-LQFP	8.28	5.92	5.38
MPC961CFA-ND	Low Voltage Zero Delay Buffer	32-LQFP	10.40	7.10	6.76
MPC961PFA-ND	Low Voltage Zero Delay Buffer	32-LQFP	10.40	7.10	6.76
	Clock Generators				
MC88915FN55-ND	55MHz, Low Skew PLL Clock Driver	28-PLCC	7.62	5.57	5.18
MC88915FN70-ND	70MHz, Low Skew PLL Clock Driver	28-PLCC	9.24	6.88	6.42
MC88915TFN55-ND	Tri-State, 55MHz, Low Skew PLL Clock Driver	28-PLCC	8.43	6.22	5.80
MC88915TFN70-ND	Tri-State, 70MHz, Low Skew PLL Clock Driver	28-PLCC	9.24	6.88	6.42
MC88915TFN100-ND	Tri-State, 100MHz, Low Skew PLL Clock Driver	28-PLCC	9.21	6.85	6.40
MC88915TFN100CT-ND	Tri-State, 100MHz, Low Skew PLL Clock Driver	28-PLCC	9.21	6.85	6.40
MC88915TFN100TR-ND	Tri-State, 100MHz, Low Skew PLL Clock Driver	28-PLCC	3005.50/500		
MC88915TFN160-ND	Tri-State, 160MHz, Low Skew PLL Clock Driver	28-PLCC	9.69	7.33	6.76
MC88916DW70-ND	70MHz, Low Skew PLL Clock Driver with Reset	20-SOIC	12.35	9.43	8.84
MC88916DW80-ND	80MHz, Low Skew PLL Clock Driver with Reset	20-SOIC	13.21	10.00	9.22
MC88920DW-ND	50MHz, Low Skew PLL Clock Driver with Power Control	20-SOIC	10.50	7.90	7.39
MC88LV915TFN-ND	Tri-State, 100MHz, Low Volt. PLL Clock Driver	28-PLCC	9.94	7.52	6.93
MPC9229FA-ND	400MHz Low Voltage Clock Synthesizer *NEW!*	32-LQFP	10.92	8.26	7.61
MPC9229FN-ND	400MHz Low Voltage Clock Synthesizer *NEW!*	28-PLCC	10.92	8.26	7.61
MPC9230FA-ND	800MHz Low Voltage Clock Synthesizer *NEW!*	32-LQFP	10.92	8.26	7.61
MPC9230FN-ND	800MHz Low Voltage Clock Synthesizer *NEW!*	28-PLCC	10.92	8.26	7.61
MPC9239FA-ND	900MHz Low Voltage Clock Synthesizer *NEW!*	32-LQFP	11.30	8.55	7.88
MPC9239FN-ND	900MHz Low Voltage Clock Synthesizer *NEW!*	28-PLCC	11.30	8.55	7.88
MPC9330FA-ND	1:6 Low Voltage PLL Clock Synthesizer *NEW!*	32-LQFP	10.05	7.61	7.01
MPC9331FA-ND	3.3V, 1:6 LVCMOS PLL Clock Generator *NEW!*	32-LQFP	10.05	7.61	7.01
MPC9350FA-ND	Low Voltage CMOS PLL Clock Generator *NEW!*	32-LQFP	8.02	5.74	5.21
MPC9351FA-ND	2.5V/3.3V, CMOS PLL Clock Generator	32-LQFP	8.02	5.74	5.21
MPC9352FA-ND	LVCMOS 1:11 Clock Driver *NEW!*	32-LQFP	8.02	5.74	5.21
MPC9600FA-ND	Low Voltage CMOS PLL Clock Driver *NEW!*	48-LQFP	8.30	5.93	5.39
MPC9653FA-ND	1:8 LVCMOS PLL Clock Generator *NEW!*	32-LQFP	6.79	4.86	4.41
MPC9658FA-ND	3.3V, 1:10 LVCMOS PLL Clock Generator *NEW!*	32-LQFP	10.19	6.96	6.62
MPC9772FA-ND	1:12 LVCMOS PLL Clock Generator *NEW!*	52-LQFP	9.61	7.27	6.71
MPC9773FA-ND	1:12 LVCMOS PLL Clock Generator *NEW!*	52-LQFP	9.61	7.27	6.71
MPC940LFACT-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	8.85	6.04	5.75
MPC940LFATR-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	10634.00/2,000		
MPC942CFA-ND	Low Voltage 1:18 Clock Distribution Chip	32-TQFP	8.85	6.04	5.75

MOTOROLA ANALOG

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC33143DW-ND	Dual High Side Switch for Inductive Loads *NEW!*	24-SOIC	5.23	3.17	3.03
MC33186DH1-ND	20KHz Automotive H-Bridge Driver *NEW!*	20-HSOP	5.69	4.07	3.70
MC33285D-ND	40V Dual High Side TMOS Driver *NEW!*	8-SOIC	2.25	1.38	1.19
MC33286DW-ND	40V Gemini Dual High Side Switch *NEW!*	20-SOIC	4.65	2.99	2.70
MC33287DW-ND	Contact Monitoring + Dual Low Side Switch *NEW!*	20-SOIC	2.86	1.74	1.51
MC33288DH-ND	Dual High Side SSR for Automotive Flasher Application *NEW!*	20-HSOP	6.96	4.98	4.52
MC33289DW-ND	Dual High Side Switch for Inductive Loads *NEW!*	20-SOIC	4.48	2.87	2.60
MC33290D-ND	ISO K Line Serial Link Interface *NEW!*	8-SOIC	1.59	.83	.76
MC33291DW-ND	1.2Ω RDS(on) Smart 8-Output Switch with SPI *NEW!*	24-SOIC	4.48	2.87	2.60
MC33291LDW-ND	1.4Ω RDS(on) 8-Output Switch with SPI *NEW!*	24-SOIC	3.83	2.46	2.22
MC33298DW-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOIC	5.45	3.85	3.55
MC33298DWCT-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOP	5.64	3.92	3.61
MC33298DWTR-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOP	3260.00/1,000		
MC33298P-ND	Octal Serial Switch with 8-Bit SPI I/O	20-Dip	5.63	3.99	3.69
MC33385DH-ND	Automotive Quad Low Side Driver *NEW!*	20-HSOP	6.54	4.67	4.25
MC33388D-ND	Fault Tolerant CAN Interface *NEW!*	14-SOIC	2.40	1.46	1.26
MC33389ADH-ND	System Base Chip with CAN *NEW!*	20-HSOP	7.43	5.31	4.83
MC33389CDH-ND	System Basis Chip with Low Speed Fault Tolerant CAN *NEW!*	20-HSOP	7.43	5.31	4.83
MC33389CDW-ND	System Base Chip with CAN *NEW!*	28-SOIC	6.52	4.66	4.24
MC33394DH-ND	Multi-Output Supply with CAN *NEW!*	44-HSOP	9.19	6.27	5.97
MC33394DWB-ND	Multi-Output Supply with CAN *NEW!*	54-SOIC	7.22	5.16	4.69
MC33395TDWB-ND	Three-Phase MOSFET Predriver *NEW!*	32-SOIC	5.50	3.93	3.57
MC33399D-ND	Local Interconnect Network Physical Interface (LIN) *NEW!*	8-SOIC	1.47	.90	.78

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MOTOROLA ANALOG *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC33486DH-ND	Dual High Side Switch for H-Bridge Applications *NEW!*	20-HSOP	8.70	5.94	5.65
MC33790DW-ND	2-Ch. DSI Physical Interface for Bus Master *NEW!*	16-SOIC	4.75	3.05	2.76
MC33793D-ND	DSI Slave for Remote Sensing *NEW!*	16-SOIC	3.73	2.39	2.16
MC33794DH-ND	E-Field Sensor for MCU Support *NEW!*	44-HSOP	7.32	5.24	4.76
MC33880DWB-ND	0.55mΩ, RDS(on) Configurable 8-Output Switch with SPI I/O Control *NEW!*	32-SOIC	4.78	3.07	2.77
MC33882DH-ND	6-Output Low Side Switch *NEW!*	30-HSOP	7.60	5.43	4.94
MC33883DW-ND	Full Bridge Pre-Driver for Power Application *NEW!*	20-SOIC	3.58	2.30	2.08
MC33884DW-ND	SDI Monitoring Switch *NEW!*	24-SOIC	3.45	2.22	2.00
MC33886DH-ND	5.2A Output H-Bridge *NEW!*	20-HSOP	6.22	4.45	4.04
MC33887DH-ND	5.2A Integrated H-Bridge with Sleep Mode *NEW!*	20-HSOP	6.73	4.81	4.37
MC33887DWB-ND	5.2A Integrated H-Bridge with Sleep Mode *NEW!*	54-SOIC	4.70	3.02	2.73
MC33888FB-ND	Quad High Side and Octal Low Side Switch *NEW!*	64-QFP	10.72	8.11	7.48
MC33889DW-ND	System Base Chip Lite with Low Speed CAN *NEW!*	28-SOIC	4.58	2.94	2.65
MC33895FC-ND	Quad Half-Bridge with LIN Transceiver *NEW!*	32-QFN	5.97	4.26	3.88
MC33989DW-ND	System Base Chip with High Speed CAN *NEW!*	28-SOIC	4.70	3.02	2.73
MC33990D-ND	J1850 Serial Transceiver *NEW!*	8-SOIC	2.77	1.69	1.46
MC33993DWB-ND	22-Switch Multiple Detection Interface *NEW!*	32-SOIC	4.20	2.70	2.44
MC33997DW-ND	Switching Power Supply with Linear Regulator *NEW!*	24-SOIC	5.58	3.39	3.23
MC33998DW-ND	2.6/5.0V Switching Power Supply *NEW!*	24-SOIC	5.40	3.28	3.13
KIT33291DWEVB-ND	Evaluation Kit for MC33291 *NEW!*	—	75.80	64.90	61.35
KIT33298DWEVB-ND	Evaluation Kit for MC33298 *NEW!*	—	75.80	64.90	61.35
KIT33394DWBEVB-ND	Evaluation Kit for MC33394 *NEW!*	—	144.80	125.60	120.00
KIT33794DWBEVM-ND	Evaluation Kit for MC33794 *NEW!*	—	72.14	58.41	56.52
KIT33880DWBEVB-ND	Evaluation Kit for MC33880 *NEW!*	—	113.70	97.35	92.03
KIT33883DWEVB-ND	Evaluation Kit for MC33883 *NEW!*	—	90.96	77.88	73.62
KIT33886DHEVB-ND	Evaluation Kit for MC33886 *NEW!*	—	72.14	58.41	56.52
KIT33991DWEVM-ND	Evaluation Kit for MC33991 *NEW!*	—	324.35	274.85	268.80
KIT33993DWBEVB-ND	Evaluation Kit for MC33993 *NEW!*	—	128.86	110.33	104.30

MOTOROLA DISPLAY DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC14489BDW-ND	5-Channel LED Display/25 Lamp Driver	20-SOG	4.04	2.76	2.53
MC14489BP-ND	5-Channel LED Display/25 Lamp Driver	20-Dip	4.04	2.76	2.53

MOTOROLA MATH COPROCESSORS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC68882FN25A-ND	M68000 Family Math CoProcessor	68-PLCC	51.00	42.58	40.50

MOTOROLA MEMORY

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MCM69C432TQ20-ND	16K x 64 Content Addressable Memory	100-TQFP	40.84	33.74	32.04
MPC2605ZP66-ND	PowerPC Integrated Secondary Cache	241-PBGA	43.07	35.68	33.89

MOTOROLA INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC33199DCT-ND	ISO9141 Serial Ink Driver	14-SOIC	2.54	1.55	1.34
MC33199DTR-ND	ISO9141 Serial Ink Driver	14-SOIC	2855.60/2,500		

MOTOROLA RF/IF PRODUCTS

Amplifiers

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MBC13720CT-ND	SiGe:C Low Noise Amp with Bypass Switch *NEW!*	SOT-363	1.49	.78	.71
MBC13720TR-ND	SiGe:C Low Noise Amp with Bypass Switch *NEW!*	SOT-363	1713.00/3,000		
MBC13900CT-ND	RF NPN Silicon Low Noise Transistor *NEW!*	SC-70	.77	.39	.32
MBC13900TR-ND	RF NPN Silicon Low Noise Transistor *NEW!*	SC-70	720.00/3,000		
MBC13916CT-ND	General Purpose SiGe:C RF Cascode Amplifier	SOT-343R	.99	.45	.41
MBC13916TR-ND	General Purpose SiGe:C RF Cascode Amplifier	SOT-343R	921.15/3,000		
MC13751FCCT-ND	Dual-Band Upmixer and Driver Amp *NEW!*	24-QFN	4.00	2.57	2.32
MC13751FCTR-ND	Dual-Band Upmixer and Driver Amp *NEW!*	24-QFN	5025.00/2,500		
MC13190FCCT-ND	2.4GHz Short-Range, Low-Power Transceiver *NEW!*	32-QFN	5.05	3.07	2.93
MC13190FCTR-ND	2.4GHz Short-Range, Low-Power Transceiver *NEW!*	32-QFN	7437.00/3,000		
MC92600JUB-ND	Quad 1.25 Gbaud SERDES Transceiver *NEW!*	217-PBGA	57.98	49.85	45.43
MMM5063CT-ND	Tri-Band GSM GPRS 3.5V Power Amp *NEW!*	—	8.05	5.75	5.23
MMM5063TR-ND	Tri-Band GSM GPRS 3.5V Power Amp *NEW!*	—	9300.00/2,000		
MRFIC0970CT-ND	3.2V GSM GaAs Integrated Power Amp *NEW!*	20-QFN	6.26	4.48	4.07
MRFIC0970TR-ND	3.2V GSM GaAs Integrated Power Amp *NEW!*	20-QFN	9050.00/2,500		
MRFIC1870CT-ND	3.2V DCS/PCS GaAs Integrated Power Amp *NEW!*	20-QFN	5.82	4.16	3.78
MRFIC1870TR-ND	3.2V DCS/PCS GaAs Integrated Power Amp *NEW!*	20-QFN	8405.00/2,500		

D/A Converters

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC144110DW-ND	6-Bit Hex Serial Interface D/A Converter	20-SOIC	4.91	3.43	3.16
MC144110DWTR-ND	6-Bit Hex Serial Interface D/A Converter	20-SOIC	2396.00/1,000		
MC144111DW-ND	6-Bit Quad Serial Interface D/A Converter	16-SOIC	3.98	2.71	2.49
MC144111DWTR-ND	6-Bit Quad Serial Interface D/A Converter	16-SOIC	2360.00/1,000		

Encoders / Decoders

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC145026D-ND	Serial Data Output 9-Line Trinary Encoder	16-SOIC	2.19	1.39	1.25
MC145026DTR-ND	Serial Data Output 9-Line Trinary Encoder	16-SOIC	2682.50/2,500		
MC145026P-ND	9-Line Simplex Encoder	16-Dip	2.19	1.39	1.25
MC145027DW-ND	Serial Data Input 9-Line (5 Address, 4 Data) Trinary Decoder	16-SOIC	2.60	1.68	1.52
MC145027DWTR-ND	Serial Data Input 9-Line (5 Address, 4 Data) Trinary Decoder	16-SOIC	1360.00/1,000		
MC145027P-ND	Serial Data Input 9-Line (5 Address, 4 Data) Trinary Decoder	16-Dip	2.60	1.68	1.52
MC145028DW-ND	Serial Data Input 9-Line Trinary Decoder	16-SOIC	3.03	2.00	1.82
MC145028DWTR-ND	Serial Data Input 9-Line Trinary Decoder	16-SOIC	1634.00/1,000		
MC145028P-ND	Serial Data Input 9-Line Trinary Decoder	16-Dip	3.03	2.00	1.82

NEW! Frequency Conversion *NEW!*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC13770FCCT-ND	RF LNA Down Converter	12-QFN	5.75	3.49	3.34
MC13770FCTR-ND	RF LNA Down Converter	12-QFN	5463.60/2,500		

Frequency Synthesis

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC145151DW2-ND	Parallel-Input PLL Freq. Synthesizer (Single-Modulus)	28-SOIC	6.19	4.43	4.10
MC145151DW2TR-ND	Parallel-Input PLL Freq. Synthesizer (Single-Modulus)	28-SOIC	3767.00/1,000		
MC145152DW2-ND	Parallel-Input PLL Freq. Synthesizer (Dual-Modulus)	28-SOIC	7.73	5.66	5.27
MC145152DW2TR-ND	Parallel-Input PLL Freq. Synthesizer (Dual-Modulus)	28-SOIC	4848.00/1,000		
MC145158DW2-ND	Serial-Input PLL Frequency Synthesizer (Dual-Modulus)	16-SOIC	3.50	2.25	2.03
MC145158DW2TR-ND	Serial-Input PLL Frequency Synthesizer (Dual-Modulus)	16-SOIC	1817.00/1,000		
MC145170D2-ND	Serial-Input CMOS PLL Frequency Synthesizer	16-SOIC	4.95	3.46	3.19
MC145170D2TR-ND	Serial-Input CMOS PLL Frequency Synthesizer	16-SOIC	7022.50/2,500		
MC145170DT2-ND	Serial-Input CMOS PLL Frequency Synthesizer	16-TSSOP	4.95	3.46	3.19
MC145170DT2TR-ND	Serial-Input CMOS PLL Frequency Synthesizer	16-TSSOP	7022.50/2,500		

MOTOROLA SMOKE DETECTION

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC14467P1-ND	Ionization Smoke Detector	16-Dip	1.67	1.01	.90
MC145012P-ND	Photoelectric Smoke Detector	16-Dip	2.94	1.93	1.75

MOTOROLA TELECOMMUNICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC145481DT-ND	3 Volt PCM Codec-Filter *NEW!*	20-TSSOP	3.73	2.39	2.16
MC145481DW-ND	3 Volt PCM Codec-Filter	20-SOG	3.73	2.39	2.16
MC145481SD-ND	3 Volt PCM Codec-Filter	20-SSOP	3.73	2.39	2.16
MC145483DT-ND	3 Volt 13-Bit Linear PCM Codec-Filter *NEW!*	20-TSSOP	3.80	2.44	2.20
MC145483FC-ND	3 Volt 13-Bit Linear PCM Codec-Filter *NEW!*	32-QFN	4.05	2.60	2.35
MC145483SD-ND	3 Volt 13-Bit Linear PCM Codec-Filter	20-SSOP	3.80	2.44	2.21
MC145484DT-ND	5 Volt PCM Codec-Filter *NEW!*	20-TSSOP	3.80	2.44	2.21
MC145484DW-ND	5 Volt PCM Codec-Filter	20-SOG	3.48	2.23	2.02
MC145484SDCT-ND	5 Volt PCM Codec-Filter	20-SSOP	3.93	2.52	2.28
MC145484SDTR-ND	5 Volt PCM Codec-Filter	20-SSOP	3057.00/1,500		
MC145572AFN-ND	Universal Interface ISDN Transceiver	44-PLCC	21.38	17.01	16.06
MC145572APB-ND	ISDN Interface Transceiver	44-TQFP	17.71	13.90	13.10
MC145574ADW-ND	S/T Interface ISDN Transceiver	28-SOIC	8.64	6.40	5.96
MC145574APB-ND	S/T Interface ISDN Transceiver	32-TQFP	8.64	6.40	5.96
MC14LC5480DT-ND	5 Volt PCM Codec-Filter *NEW!*	20-TSSOP	3.80	2.31	2.21
MC14LC5480DW-ND	5 Volt PCM Codec-Filter	20-SOG	3.48	2.23	2.02
MC14LC5480DWCT-ND	5 Volt PCM Codec-Filter	20-SOG	3.60	2.31	2.09
MC14LC5480DWTR-ND	5 Volt PCM Codec-Filter	20-SOG	1869.00/1,000		
MC14LC5480SDCT-ND	5 Volt PCM Codec-Filter	20-SSOP	3.95	2.54	2.29
MC14LC5480SDTR-ND	5 Volt PCM Codec-Filter	20-SSOP	3076.50/1,500		
MC14LC5540DW-ND	Adaptive Differential PCM Codec	28-SOG	6.98	4.99	4.54
MC33390D-ND	Class B Serial Link Transceiver	8-SOIC	2.15	1.36	1.22
MC34118DW3CT-ND	Voice Switch Speakerphone	28-SOIC	6.88	5.16	4.99
MC34118DW3TR-ND	Voice Switch Speakerphone	28-SOIC	4386.00/1,000		
MC92501GC-ND	Asynchronous Transfer Mode Cell Processor	256-PBGA	141.49	—	—

intel EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
KU80C186EC20	802933-ND	20MHz, 16-Bit, Enhanced 80C186 MPU, 5V	100-QFP	21.15	16.65	12.60
KU80C186EC25	802951-ND	25MHz, 16-Bit, Enhanced 80C186 MPU, 5V	100-QFP	21.15	16.65	12.60
TN80C186EB20	802875-ND	20MHz, 16-Bit, Enhanced 80C186 MPU, 5V	84-PLCC	17.74	13.97	10.57
N80C186EA25	802825-ND	25MHz, 16-Bit, 80C186EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C186EA13	802768-ND	13MHz, 16-Bit, 80C186EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C186EA20	802799-ND	20MHz, 16-Bit, 80C186EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
N80C186EB25	802891-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	84-PLCC	17.63	13.88	10.50
S80C186EB25	802897-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	18.21	14.34	10.85
SB80C186EB13	808818-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-SQFP	11.87	9.35	7.07
SB80C186EB20	802869-ND	20MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-SQFP	11.87	9.35	7.07
SB80C186EB25	802905-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-SQFP	11.87	9.35	7.07
TN80C186EB13	802851-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	84-PLCC	17.74	13.97	10.57
TS80C186EB13	802853-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	17.27	13.60	10.29
TS80C186EB20	802885-ND	20MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	17.27	13.60	10.29
A80C186ECI	802919-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	132-CPGA	62.32	49.20	42.64
S80C186EC25	802957-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
SB80C186EC13	808819-ND	13MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C186EC20	802939-ND	20MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C186EC25	802965-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
TS80C186EC20	802945-ND	20MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
A80C186XL12	803000-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PGA	40.53	32.04	26.06

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Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
A80C186XL20	803128-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PGA	40.53	32.04	26.06
A80C186XL25	803250-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PGA	40.53	32.04	26.06
A80C186XLI	802971-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	132-CPGA	57.86	45.68	39.59
N80C186XL12	803020-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PLCC	9.35	7.48	4.93
N80C186XL20	803140-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PLCC	9.35	7.48	4.93
N80C186XL25	803256-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PLCC	9.35	7.48	4.93
N80C188XL12	803698-ND	12MHz, 16-Bit, 80C188XL Microprocessor, 5V	68-PLCC	9.08	7.26	4.79
N80C188XL20	803820-ND	20MHz, 16-Bit, 80C188XL Microprocessor, 5V	68-PLCC	9.08	7.26	4.79
R80C186XL12	803057-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-LCC	33.08	26.15	21.27
R80C186XL20	803196-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-LCC	33.08	26.15	21.27
R80C186XL25	803262-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-LCC	33.08	26.15	21.27
S80C186XL12	803063-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-MQFP	13.06	10.45	6.89
S80C186XL20	803199-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-MQFP	13.06	10.45	6.89
S80C186XL25	803269-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-MQFP	13.06	10.45	6.89
SB80C186XL12	808823-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
SB80C186XL20	808824-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
SB80C186XL25	808825-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
TA80C186XL20	803206-ND	20MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-PGA	42.74	33.79	27.48
TN80C186XL12	803077-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temp.	68-PLCC	9.35	7.48	4.93
TN80C186XL20	803212-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V, Ext. Temp.	68-PLCC	9.35	7.48	4.93
TR80C186XL12	803091-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-LCC	35.28	27.89	22.68
TR80C186XL20	803233-ND	20MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-LCC	35.28	27.89	22.68
TS80C186XL12	803097-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	80-MQFP	13.34	10.67	7.04
TS80C186XL20	803242-ND	20MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	80-MQFP	13.34	10.67	7.04
TN80L186EA13	806072-ND	13MHz, 16-Bit, 80L186EA Enhanced MPU, 3V, Extended Temp.	68-PLCC	14.81	11.66	8.82
N80L186EB16	806093-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	17.63	13.88	10.50
S80L186EB16	806099-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	18.21	14.34	10.85
SB80L186EB13	808880-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	11.87	9.35	7.07
SB80L186EB16	806105-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	11.87	9.35	7.07
TN80L186EB13	806081-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	17.74	13.97	10.57
TS80L186EB13	806087-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	17.27	13.60	10.29
KU80L186EC13	806111-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-QFP	21.15	16.65	12.60
KU80L186EC16	806116-ND	16MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-QFP	21.15	16.65	12.60
S80L186EC16	808881-ND	16MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-MQFP	20.70	16.30	12.34
SB80L186EC13	809626-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
TN80C188EB13	803537-ND	13MHz, 16-Bit, 80C188 Enhanced MPU, 5V, Extended Temp.	84-PLCC	17.74	13.97	10.57
TN80C188EB20	803562-ND	20MHz, 16-Bit, 80C188 Enhanced MPU, 5V, Extended Temp.	84-PLCC	17.74	13.97	10.57
TS80C188EB20	803586-ND	20MHz, 16-Bit, 80C188 Enhanced MPU, 5V, Extended Temp.	80-QFP	17.27	13.60	10.29
N80C188EA25	808826-ND	25MHz, 16-Bit, 80C188EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C188EA13	803477-ND	13MHz, 16-Bit, 80C188EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C188EA20	803497-ND	20MHz, 16-Bit, 80C188EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
N80C188EB25	803592-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	84-PLCC	17.63	13.88	10.50
S80C188EB25	803598-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-MQFP	18.21	14.34	10.85
SB80C188EB13	803520-ND	13MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-SQFP	17.27	13.60	10.29
SB80C188EB20	803555-ND	20MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-SQFP	17.27	13.60	10.29
SB80C188EB25	803604-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-SQFP	17.27	13.60	10.29
TS80C188EB13	803549-ND	13MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-MQFP	17.27	13.60	10.29
KU80C188EC13	803612-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	21.15	16.65	12.60
KU80C188EC20	803638-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	17.16	13.51	10.22
KU80C188EC25	803656-ND	25MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	17.16	13.51	10.22
S80C188EC25	803664-ND	25MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
SB80C188EC13	803618-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C188EC20	803644-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C188EC25	808828-ND	25MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
TS80C188EC13	803632-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	20.70	16.30	12.34
TS80C188EC20	803650-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
A80C188XL12	803689-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	68-PGA	37.49	29.64	24.10
A80C188XL20	803812-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	68-PGA	40.53	32.04	26.06
A80C188XL25	803884-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-PGA	37.49	29.64	24.10
N80C188XL25	803895-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-PLCC	9.08	7.26	4.79
R80C188XL20	803844-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	68-LCC	27.30	21.58	17.55
R80C188XL25	803902-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-LCC	27.30	21.58	17.55
S80C188XL12	803759-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
S80C188XL20	803850-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
S80C188XL25	808831-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
SB80C188XL12	803769-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
SB80C188XL20	803856-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
SB80C188XL25	803908-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
TA80C188XL12	803775-ND	12MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-PGA	39.69	31.38	25.52
TA80C188XL20	803862-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-PGA	39.69	31.38	25.52
TN80C188XL12	803787-ND	12MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-PLCC	9.08	7.26	4.79
TN80C188XL20	803867-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-PLCC	9.08	7.26	4.79
TR80C188XL12	803799-ND	12MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-LCC	29.51	23.33	18.97
TR80C188XL20	803873-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-LCC	35.28	27.89	22.68
TS80C188XL20	803878-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	80-MQFP	11.96	9.57	6.31
TN80L188EA13	806131-ND	13MHz, 16-Bit, 80L188EA Enhanced MPU, 3V, Extended Temp.	68-PLCC	14.81	11.66	8.82
N80L188EB16	806163-ND	16MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	17.63	13.88	10.50
SB80L188EB16	806175-ND	16MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	17.27	13.60	10.29
TN80L188EB13	806149-ND	13MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	17.74	13.97	10.57
TS80L188EB13	806156-ND	13MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	17.27	13.60	10.29
KU80L188EC13	806192-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-QFP	17.16	13.51	10.22
SB80L188EC13	806197-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
SB80L188EC16	809627-ND	16MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
TS80L188EC13	808882-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-MQFP	20.70	16.30	12.34
A80386DX16	807050-ND	16MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	44.10	34.86	28.35
A80386DX20	807066-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	44.10	34.86	28.35
A80386DX25	807094-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	44.10	34.86	28.35
A80386DX33	807129-ND	33MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	44.10	34.86	28.35
NG80386DX20	807082-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
NG80386DX25	807111-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
NG80386DX33	807141-ND	33MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
A80386EXI	807153-ND	33MHz, 32-Bit, 386EX Processor, 5.0V	168-CPGA	68.40	54.00	46.80
FA80386EXTB25	807257-ND	25MHz, 32-Bit, 386EX Integrated Processor, 3.3V, Ext. Temp.	144-TQFP	26.25	20.75	16.88
FA80386EXTC25	807267-ND	25MHz, 32-Bit, 386EX Integrated Processor, 5.0V, Ext. Temp.	144-TQFP	21.00	16.60	13.50
FA80386EXTC33	807274-ND	33MHz, 32-Bit, 386EX Integrated Processor, 5.0V, Ext. Temp.	144-TQFP	22.05	17.43	14.18
KU80386EXTB25	807262-ND	25MHz, 386EX Integrated Processor, 3.3V	132-QFP	24.15	19.09	15.53
KU80386EXTC25	807271-ND	25MHz, 386EX Integrated Processor, 5.0V	132-QFP	21.53	17.02	13.84
KU80386EXTC33	807277-ND	33MHz, 386EX Integrated Processor, 5.0V	132-QFP	21.53	17.02	13.84
KU80386SXTA25	800169-ND	25MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
KU80386SXTA33	800175-ND	33MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
KU80386SXTA40	800183-ND	40MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
NG80386SX16	800214-ND	16MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	15.28	12.03	9.10

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EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
NG80386SX20	800273-ND	20MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	15.28	12.03	9.10
NG80386SX25	800310-ND	25MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SX33	800353-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SXLP20	800112-ND	20MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	15.28	12.03	9.10
NG80386SXLP25	800134-ND	25MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SXLP33	800149-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
A80486DX2SA50SX912	800940-ND	50MHz, 32-Bit, 486DX2 MPU, 5.0V	168-PGA	54.15	42.75	37.05
A80486DX2SA66SX911	800948-ND	66MHz, 32-Bit, 486DX2 MPU, 5.0V	168-PGA	54.15	42.75	37.05
SB80486DX2SC50SX920	800952-ND	50MHz, 32-Bit, 486DX2 MPU, 3.3V	208-SQFP	38.05	30.08	24.47
A80486DX4WB100SK096	801069-ND	100MHz, 32-Bit, 486DX4 Microprocessor, 3.3V	168-PGA	65.46	51.68	44.79
A80486DX4WB100SK101	808894-ND	100MHz, 32-Bit, 486DX4 MPU, 3.3V	168-PGA	65.46	51.68	44.79
FC80486DX4WB100SL2M9	816435-ND	100MHz, 32-Bit, 486DX4 MPU, 3.3V	208-SQFP	42.15	33.32	27.10
FA80486GXSF33	801241-ND	33MHz, 32-Bit 486GX MPU, 3.3V	176-TQFP	33.08	26.15	21.27
A80486SXSA25SX930	801266-ND	25MHz, 32-Bit, 486SX MPU, 5.0V	168-PGA	62.23	49.13	42.58
A80486SXSA33SX931	801301-ND	33MHz, 32-Bit, 486SX MPU, 5.0V	168-PGA	62.23	49.13	42.58
FA80486SXSF33	801362-ND	33MHz, 32-Bit, 486SX MPU, 3.3V	176-TQFP	41.90	33.12	26.94
KU80486SXSA25SX934	801281-ND	25MHz, 32-Bit, 486SX MPU, 5.0V	196-QFP	54.63	43.13	37.38
KU80486SXSA33SX935	801318-ND	33MHz, 32-Bit, 486SX MPU, 5.0V	196-QFP	55.58	43.88	38.03
FV80524RX300128SL36A	820704-ND	300MHz, Celeron, 66MHz Bus, 128K L2 Cache, 2.0V	370-PGA	74.10	58.50	50.70
FV80524RX366128SL36C	820706-ND	366MHz, Celeron, 66MHz Bus, 128K L2 Cache, 2.0V	370-PGA	64.35	56.55	49.73
FV80524RX433128SL3BA	821636-ND	433MHz, Celeron, 66MHz Bus, 128K L2 Cache, 2.0V	370-PGA	64.35	56.55	49.73
KC80524KX366128SL3C7	822451-ND	366MHz, LP Celeron, 66MHz Bus, 128K L2 Cache, 1.6V	615-BGA	105.60	92.80	81.60
KC80526LL300128SL5LG	835679-ND	300MHz, LP Celeron, 100MHz Bus, 128K L2 Cache, 1.1V	495-BGA	87.45	76.85	67.58
KC80526LY400128SL4J8	830981-ND	400MHz, LP Celeron, 100MHz Bus, 128K L2 Cache, 1.3V	495-BGA	91.20	72.00	62.40
RB80526RX566128SL4PC	831081-ND	566MHz, Celeron, 66MHz Bus, 128K L2 Cache, 1.8V	370-PGA	66.50	52.50	45.50
RB80526RY850128SL54Q	833470-ND	850MHz, Celeron, 100MHz Bus, 128K L2 Cache, 1.75V	370-PGA	76.00	60.00	52.00
A8050266100SL2TU	818463-ND	100MHz, Pentium I, 66MHz Bus, 3.3V	296-CPGA	66.54	52.53	45.53
A8050266133SY022	801827-ND	133MHz, Pentium I, 66MHz Bus, 3.3V	296-CPGA	66.54	52.53	45.53
A8050266166SY016	801878-ND	166MHz, Pentium I, 66MHz Bus, 3.3V	296-CPGA	83.60	66.00	57.20
A80502CSLM66133SY028	801524-ND	133MHz, Pentium I, 66MHz Bus, 3.3V	296-CPGA	66.54	52.53	45.53
FV8050366200SL27J	813127-ND	200MHz, Pentium I with MMX, 66MHz Bus, 2.8V	296-PGA	72.20	57.00	49.40
FV8050366233SL27S	813324-ND	233MHz, Pentium I with MMX, 66MHz Bus, 2.8V	296-PGA	76.00	60.00	52.00
FV80503CSM66166SL2ZX	819416-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.9V	296-PGA	68.40	54.00	46.80
FV80503CSM66266SL2Z4	819033-ND	266MHz, Pentium I with MMX, 66MHz Bus, 1.9V	296-PGA	70.95	62.35	54.83
GC80503CS166EXTSL3B8	822631-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.8V, Low Power	352-BGA	66.50	52.50	45.50
GC80503CSM66166SL388	821225-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.9V	352-BGA	62.70	49.50	42.90
GC80503CSM66266SL389	821226-ND	266MHz, Pentium I with MMX, 66MHz Bus, 1.9V	352-BGA	66.00	58.00	51.00
KC80524KX266256SL32Q	820516-ND	266MHz, Pentium II, 66MHz Bus, 256K L2 Cache, 1.6V	615-BGA	90.75	79.75	70.13
KC80524KX333256SL32S	820520-ND	333MHz, Pentium II, 66MHz Bus, 256K L2 Cache, 1.6V	615-BGA	94.05	82.65	72.68
KC80526GY850256SL547	833483-ND	850MHz, LP Pentium III, 100MHz Bus, 256K L2 Cache, 1.6V	495-BGA	171.57	161.25	154.80
KC80526LY400256SL546	833482-ND	400MHz, LP Pentium III, 100MHz Bus, 256K L2 Cache, 1.35V	495-BGA	130.35	114.55	100.73
RB80526PY700256SL4CH	830150-ND	700MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.8V	370-PGA	123.75	108.75	95.63
RB80526PZ001256SL52R	833416-ND	1.0GHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-PGA	156.75	137.75	121.13
RK80530KZ012512SL5QL	836721-ND	1.26GHz, Pentium III, 133MHz Bus, 512K L2 Cache, 1.5V	370-PGA	216.79	203.75	195.60
RK80532PC041512SL6GQ	848653-ND	2.0GHz, Pentium 4, 400MHz Bus, 512KB L2 Cache, 1.5V	478-PGA	251.37	236.25	226.80
RN80532KC041512SL6EM	847687-ND	32-Bit, 2.0GHz Xeon MPU, 400MHz Bus, 512K L2 Cache, 1.5V	603-INT3	243.39	228.75	219.60

PROCESSOR MODULES

Intel Part No.	Digi-Key Part No.	Description	Price Each ★		
			1	10	100
LPM22CUBF500A	833443-ND	Pentium III, 500MHz, Low Power Module	317.87	298.75	286.80
LPM22PDF333A	833446-ND	Pentium II, 333MHz, Low Power Module	271.32	255.00	244.80
LPM25P2F266A	833449-ND	Pentium II, 266MHz, Low Power Module	320.53	301.25	289.20

STRONG ARM® PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
21281DB	821351-ND	166MHz, Strong Arm SA-110 Microprocessor	144-TQFP	30.98	24.49	19.92
21285AB	821310-ND	Core Logic for SA-110 MPU	256-BGA	39.38	31.13	25.32
GDS1110BD	835990-ND	32-Bit, 206MHz, Strong Arm SA-1110 Microprocessor	256-BGA	49.69	39.23	34.00

NETWORK PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
GCIXP1200EA	829314-ND	2V, 166MHz, Network Processor	432-BGA	192.32	180.75	173.52
GCIXP1200EB	829764-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200FB	833954-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200FC	833956-ND	2V, 232MHz, Network Processor	432-BGA	338.09	317.75	305.04
GCIXP1200GA	839427-ND	2V, 166MHz, Network Processor	432-BGA	192.32	180.75	173.52
GCIXP1200GB	839428-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200GC	839429-ND	2V, 232MHz, Network Processor	432-BGA	338.09	317.75	305.04
GCIXP1240AA	837150-ND	2V, 166MHz, Network Processor with CRC Support	432-BGA	258.55	243.00	233.28
GCIXP1240AB	837151-ND	2V, 200MHz, Network Processor with CRC Support	432-BGA	318.27	299.13	287.16
GCIXP1240AC	837152-ND	2V, 232MHz, Network Processor with CRC Support	432-BGA	404.45	380.13	364.92
GCIXP1250BA	837411-ND	2V, 166MHz, Network Processor with CRC and ECC Support	520-BGA	271.85	255.50	245.28
GCIXP1250BB	837412-ND	2V, 200MHz, Network Processor with CRC and ECC Support	520-BGA	331.44	311.50	299.04
GCIXP1250BC	837414-ND	2V, 232MHz, Network Processor with CRC and ECC Support	520-BGA	417.62	392.50	376.80

I/O PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
GC80303 S L57T	833962-ND	100MHz, 3.3V, I/O Processor, 64-Bit PCI-PCI Bridge	540-BGA	126.06	110.78	97.41
GC80960RM100SL3YZ	827794-ND	100MHz, 3.3V, I/O Processor, 32-Bit PCI-PCI Bridge	540-BGA	102.00	89.64	78.83
GC80960RN100SL3YW	827744-ND	100MHz, i960RN 32-Bit I/O Processor, 64-Bit PCI-PCI Bridge	540-BGA	123.63	108.65	95.54

MCS® 51 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
D80C31BH1SF88	809473-ND	5V, 16MHz, 8-Bit MPU	40-CDip	10.80	8.64	5.13
LD80C31BH1SF88	809474-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-CDip	12.20	9.76	5.80
LN80C31BH1SF88	809475-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	5.00	4.00	2.38
LP80C31BH1SF88	809476-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	5.00	4.00	2.38
N80C31BH1SF88	809480-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	3.60	2.88	1.71
N80C31BH24SF88	809494-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	3.60	2.88	1.71
P80C31BH1SF88	809484-ND	5V, 16MHz, 8-Bit MPU	40-Dip	3.60	2.88	1.71
P80C31BH24SF88	809495-ND	5V, 24MHz, 8-Bit MPU	40-Dip	3.60	2.88	1.71
S80C31BH1SF88	809486-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	3.60	2.88	1.71
S80C31BH24SF88	811520-ND	5V, 24MHz, 8-Bit MPU	44-QFP	3.60	2.88	1.71
TD80C31BH1SF88	823321-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-CDip	11.40	9.12	5.42
TN80C31BH1SF88	810026-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	4.20	3.36	2.00
TP80C31BH1SF88	809488-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	4.20	3.36	2.00
TS80C31BH1SF88	809489-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-QFP	4.20	3.36	2.00
N80C321SF88	809512-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	4.40	3.52	2.09
N80C3224SF88	809521-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	4.40	3.52	2.09
P80C321SF88	809515-ND	5V, 16MHz, 8-Bit MPU	40-Dip	4.40	3.52	2.09
P80C3224SF88	809523-ND	5V, 24MHz, 8-Bit MPU	40-Dip	4.40	3.52	2.09
S80C321SF88	809516-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	4.40	3.52	2.09
S80C3224SF88	810024-ND	5V, 24MHz, 8-Bit MPU	44-MQFP	4.40	3.52	2.09
TN80C321SF88	809517-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	5.00	4.00	2.38
TN80C3224SF88	809524-ND	5V, 24MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	5.00	4.00	2.38
TP80C321SF88	809518-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	5.00	4.00	2.38
TS80C321SF88	809519-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-MQFP	5.00	4.00	2.38
D80C51FA1SF88	809564-ND	5V, 16MHz, 8-Bit MPU	40-CDIP	12.00	9.60	5.70
LD80C51FA1SF88	809565-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-CDip	13.40	10.72	6.37
LN80C51FA1SF88	811045-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	7.60	6.08	3.61
LP80C51FA1SF88	810037-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	7.60	6.08	3.61
N80C51FA1SF88	809568-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	6.20	4.96	2.95
N80C51FA24SF88	809581-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	6.20	4.96	2.95
N80C51FA33SF88	810981-ND	5V, 33MHz, 8-Bit MPU	44-PLCC	6.84	5.48	3.25
N80C51RA1	804496-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	9.20	7.36	4.37
N80C51RA24	804579-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	6.33	5.06	3.34
N87C511SF76	810977-ND	5V, 16MHz, 8-Bit, 4K OTP EPROM MCU	44-PLCC	5.91	4.73	3.12
N87C51FA1SF76	810760-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM MCU	44-PLCC	8.80	7.04	4.64
N87C51FA24SF76	810758-ND	5V, 24MHz, 8-Bit, 8K OTP EPROM MCU	44-PLCC	8.80	7.04	4.64
N87C51FC1	811087-ND	5V, 16MHz, 8-Bit, 32K OTP EPROM MCU	44-PLCC	9.99	7.87	5.95
N87C51RB1	807251-ND	5V, 16MHz, 8-Bit, 16K OTP EPROM MCU	44-PLCC	10.34	8.14	6.16
N87C51RC1	800186-ND	5V, 16MHz, 8-Bit, 32K OTP EPROM MCU	44-PLCC	14.10	11.10	8.40
P80C51FA1SF88	810046-ND	5V, 16MHz, 8-Bit MPU	40-Dip	6.20	4.96	2.95
P80C51FA24SF88	810039-ND	5V, 24MHz, 8-Bit MPU	40-Dip	6.20	4.96	2.95
P80C51RA1	804514-ND	5V, 16MHz, 8-Bit MPU	40-Dip	9.20	7.36	4.37
P80C51RA24	804586-ND	5V, 24MHz, 8-Bit MPU	40-Dip	6.33	5.06	3.34
P87C511SF76	810992-ND	5V, 16MHz, 8-Bit, 4K OTP EPROM MCU	40-Dip	5.91	4.73	3.12
P87C51FB1SF76	811013-ND	5V, 16MHz, 8-Bit, 16K OTP EPROM MCU	40-Dip	8.81	6.94	5.25
S80C51FA1SF88	809572-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	6.20	4.96	2.95
S80C51RA1	804523-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	9.20	7.36	4.37
S80C51RA24	804592-ND	5V, 24MHz, 8-Bit MPU	44-MQFP	6.33	5.06	3.34

(Continued)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
TD80C51FA1SF88	809573-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-CDip	12.60	10.08	5.99
TN80C51FA1SF88	809574-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	6.80	5.44	3.23
TN80C51FA24SF88	809583-ND	5V, 24MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	6.80	5.44	3.23
TP80C51FA1SF88	810034-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	6.80	5.44	3.23
TS80C51FA1SF88	810998-ND	5V, 16MHz, 8-Bit MPU, Extended Temperature	44-MQFP	6.80	5.44	3.23
TS80C51RA1	804534-ND	5V, 16MHz, 8-Bit MPU Extended Temperature	44-MQFP	6.74	5.39	3.56
TS80C51RA24	804603-ND	5V, 24MHz, 8-Bit MPU Extended Temperature	44-MQFP	6.74	5.39	3.56
TS87C51FA1SF76	811518-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM MCU, Extended Temp.	44-QFP	9.21	7.37	4.86
AN87C51FA20F8	821038-ND	5V, 20MHz, 8-Bit, 8K OTP MCU, Automotive	44-PLCC	13.84	10.90	8.25
AN87C51FC20F8	821044-ND	5V, 20MHz, 8-Bit, 32K OTP MCU, Automotive	44-PLCC	21.02	16.62	13.52
D87C511SF76	810978-ND	5V, 16MHz, 8-Bit, 4K UV EPROM MCU	40-CDip	23.50	18.50	14.00
D87C5124SF76	810983-ND	5V, 24MHz, 8-Bit, 4K UV EPROM MCU	40-CDip	23.50	18.50	14.00
D87C51FA1SF76	804397-ND	5V, 16MHz, 8-Bit, 8K UV EPROM MCU	40-CDip	31.50	24.90	20.25
D87C51FA24SF76	810761-ND	5V, 24MHz, 8-Bit, 8K UV EPROM MCU	40-CDip	31.50	24.90	20.25
D87C51FB1SF76	810694-ND	5V, 16MHz, 8-Bit, 16K UV EPROM MCU	40-CDip	35.70	28.22	22.95
D87C51FB24SF76	810695-ND	5V, 24MHz, 8-Bit, 16K UV EPROM MCU	40-CDip	35.70	28.22	22.95
D87C51FC1SF76	811047-ND	5V, 16MHz, 8-Bit, 32K UV EPROM MCU	40-CDip	38.85	30.71	24.98
D87C51FC20SF76	811050-ND	5V, 20MHz, 8-Bit, 32K UV EPROM MCU	40-CDip	38.85	30.71	24.98
D87C51FC24SF76	811048-ND	5V, 24MHz, 8-Bit, 32K UV EPROM MCU	40-CDip	38.85	30.71	24.98
D87C51FC33SF76	811051-ND	5V, 33MHz, 8-Bit, 32K UV EPROM MCU	40-CDip	42.74	33.79	27.48
LD87C511SF76	823330-ND	5V, 16MHz, 8-Bit, 4K UV EPROM MCU, Extended Temperature	40-CDip	24.32	19.15	14.49
LD87C5124SF76	811517-ND	5V, 24MHz, 8-Bit, 4K UV EPROM MCU, Extended Temperature	40-CDip	21.74	17.19	13.98
LD87C51FA1SF76	823333-ND	5V, 16MHz, 8-Bit, 8K UV EPROM MCU, Extended Temperature	40-CDip	32.24	25.49	20.73
LD87C51FB1SF76	823337-ND	5V, 16MHz, 8-Bit, 16K UV EPROM MCU, Extended Temperature	40-CDip	36.44	28.81	23.43
LD87C51FC1SF76	823339-ND	5V, 16MHz, 8-Bit, 32K UV EPROM MCU, Extended Temperature	40-CDip	39.59	31.30	25.45
LN87C511SF76	823401-ND	5V, 16MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	6.88	5.50	3.63
LN87C51FA1SF76	823334-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	9.76	7.81	5.15
LN87C51FC20SF76	811064-ND	5V, 20MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	10.81	8.51	6.44
LN87C51FC24SF76	812078-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	10.81	8.51	6.44
LP87C51FC1SF76	823340-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	10.81	8.51	6.44
N87C5124SF76	810976-ND	5V, 24MHz, 8-Bit, 4K OTP MCU	44-PLCC	5.91	4.73	3.12
N87C51FA33SF76	810753-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	44-PLCC	9.68	7.75	5.11
N87C51FB1SF76	812060-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	8.81	6.94	5.25
N87C51FB20SF76	810972-ND	5V, 20MHz, 8-Bit, 16K OTP MCU	44-PLCC	8.81	6.94	5.25
N87C51FB24SF76	811012-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	8.81	6.94	5.25
N87C51FB33SF76	811022-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-PLCC	9.71	7.65	5.79
N87C51FC24SF76	811089-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-PLCC	9.99	7.87	5.95
N87C51FC33SF76	811090-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	44-PLCC	11.00	8.66	6.56
N87C51RA1	806959-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-PLCC	9.40	7.40	5.60
N87C51RA24	807119-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-PLCC	9.40	7.40	5.60
N87C51RB24	807306-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	10.34	8.14	6.16
N87C51RC24	800338-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-PLCC	14.10	11.10	8.40
P87C5124SF76	811003-ND	5V, 24MHz, 8-Bit, 4K OTP MCU	40-Dip	5.91	4.73	3.12
P87C51FA1SF76	810744-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	8.80	7.04	4.64
P87C51FA24SF76	810748-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	8.80	7.04	4.64
P87C51FA33SF76	810756-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	40-Dip	9.68	7.75	5.11
P87C51FB24SF76	811020-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	40-Dip	8.81	6.94	5.25
P87C51FB33SF76	810366-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	40-Dip	9.71	7.65	5.79
P87C51FC1SF76	811076-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	9.99	7.87	5.95
P87C51FC24SF76	811077-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	40-Dip	9.99	7.87	5.95
P87C51FC33SF76	811074-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	40-Dip	11.00	8.66	6.56
P87C51RA1	806971-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	9.40	7.40	5.60
P87C51RA24	807140-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	9.40	7.40	5.60
P87C51RB1	807273-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	10.34	8.14	6.16
P87C51RB24	807310-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	40-Dip	10.34	8.14	6.16
P87C51RC1	800209-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	14.10	11.10	8.40
P87C51RC24	800354-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	40-Dip	14.10	11.10	8.40
S87C511SF76	823331-ND	5V, 16MHz, 8-Bit, 4K OTP MCU	44-MQFP	5.91	4.73	3.12
S87C51FA1SF76	804439-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	8.80	7.04	4.64
S87C51FA24SF76	810749-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	8.80	7.04	4.64
S87C51FB1SF76	805377-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	8.81	6.94	5.25
S87C51FB24SF76	811017-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	8.81	6.94	5.25
S87C51FB33SF76	811019-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-MQFP	9.71	7.65	5.79
S87C51FC1SF76	806104-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	9.99	7.87	5.95
S87C51FC24SF76	811081-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	9.99	7.87	5.95
S87C51RA1	806989-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	9.40	7.40	5.60
S87C51RA24	807154-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	9.40	7.40	5.60
S87C51RB1	807279-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	10.34	8.14	6.16
S87C51RB24	807314-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	10.34	8.14	6.16
S87C51RC1	800221-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	14.10	11.10	8.40
S87C51RC24	800375-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	14.10	11.10	8.40
TD87C511SF76	823332-ND	5V, 16MHz, 8-Bit, 4K UV EPROM MCU, Extended Temperature	40-CDip	21.32	16.85	13.71
TD87C51FA1SF76	810773-ND	5V, 16MHz, 8-Bit, 8K UV EPROM MCU, Extended Temperature	40-CDip	31.82	25.15	20.46
TD87C51FB1SF76	811041-ND	5V, 16MHz, 8-Bit, 16K UV EPROM MCU, Extended Temperature	40-CDip	36.02	28.47	23.16
TD87C51FC1SF76	811040-ND	5V, 16MHz, 8-Bit, 32K UV EPROM MCU, Extended Temperature	40-CDip	39.17	30.96	25.18
TD87C51FC24SF76	812080-ND	5V, 24MHz, 8-Bit, 32K UV EPROM MCU, Extended Temperature	40-CDip	39.17	30.96	25.18
TN87C511SF76	811004-ND	5V, 16MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	6.33	5.06	3.34
TN87C5124SF76	810989-ND	5V, 24MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	6.33	5.06	3.34
TN87C51FA1SF76	810774-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	9.21	7.37	4.86
TN87C51FA24SF76	810975-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	9.21	7.37	4.86
TN87C51FB1SF76	812042-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	9.17	7.22	5.46
TN87C51FB24SF76	812495-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	9.17	7.22	5.46
TN87C51FC1SF76	812059-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	10.34	8.14	6.16
TN87C51FC24SF76	811071-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	10.34	8.14	6.16
TN87C51RA1	807001-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	9.75	7.68	5.81
TN87C51RB24	807318-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	10.69	8.42	6.37
TN87C51RC24	800391-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	14.45	11.38	8.61
TP87C511SF76	811000-ND	5V, 16MHz, 8-Bit, 4K OTP MCU, Extended Temperature	40-Dip	6.33	5.06	3.34
TP87C51FA1SF76	810986-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	40-Dip	9.21	7.37	4.86
TP87C51FA24SF76	810990-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	40-Dip	9.21	7.37	4.86
TP87C51FB1SF76	811023-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	9.17	7.22	5.46
TP87C51FB24SF76	811015-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	9.17	7.22	5.46
TP87C51FC1SF76	814033-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	10.34	8.14	6.16
TP87C51RB24	807320-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	10.69	8.42	6.37
TP87C51RC24	800408-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	14.45	11.38	8.61
TS87C51FA24SF76	810982-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	9.21	7.37	4.86
TS87C51FB1SF76	812058-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	9.17	7.22	5.46
TS87C51FCSF76	812079-ND	5V, 12MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-MQFP	10.34	8.14	6.16
TS87C51RA1	807033-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	9.75	7.68	5.81
TS87C51RA24	807166-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	9.75	7.68	5.81
TS87C51RB1	807285-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	10.69	8.42	6.37
TS87C51RB24	807322-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	10.69	8.42	6.37
TS87C51RC24	800417-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-MQFP	14.45	11.38	8.61
D87C521SF76	810764-ND	5V, 16MHz, 8-Bit, 8K UV EPROM MCU	40-CDip	24.15	19.09	15.53
D87C5224SF76	810751-ND	5V, 24MHz, 8-Bit, 8K UV EPROM MCU	40-CDip	24.15	19.09	15.53
N87C521SF76	810755-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM MCU	44-PLCC	6.88	5.50	3.63
N87C5224SF76	810752-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-PLCC	6.88	5.50	3.63
N87C5233SF76	810763-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	44-PLCC	7.56	6.05	3.99
P87C521SF76	810765-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM MCU	40-Dip	6.88	5.50	3.63
P87C5224SF76	810767-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	6.88	5.50	3.63
P87C5233SF76	810768-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	40-Dip	7.56	6.05	3.99
S87C521SF76	810770-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	6.88	5.50	3.63
TD87C521SF76	823336-ND	5V, 16MHz, 8-Bit, 8K UV EPROM MCU, Extended Temperature	40-CDip	24.47	19.34	15.73
TN87C521SF76	810688-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	7.29	5.83	3.85
TN87C5224SF76	819853-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	7.29	5.83	3.85
AN87C54F8	821116-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Automotive	44-PLCC	14.52	11.44	8.66
D87C541SF76	810730-ND	5V, 16MHz, 8-Bit, 16K UV EPROM MCU	40-CDip	26.25	20.75	16.88
D87C5433SF76	810732-ND	5V, 33MHz, 8-Bit, 16K UV EPROM MCU	40-CDip	28.88	22.83	18.57
N87C541SF76	810719-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.70	6.16	4.06
N87C5424SF76	810720-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.70	6.16	4.06
N87C5433SF76	810721-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.24	5.70	4.32
P87C541SF76	810716-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	7.70	6.16	4.06
P87C5424SF76	810717-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	40-Dip	7.70	6.16	4.06
S87C541SF76	810369-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.70	6.16	4.06
S87C5424SF76	810712-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.70	6.16	4.06
TD87C541SF76	823347-ND	5V, 16MHz, 8-Bit, 16K UV EPROM MCU, Extended Temp.	40-CDip	26.57	21.00	17.08
D87C581SF76	810738-ND	5V, 16MHz, 8-Bit, 32K UV EPROM MCU	40-CDip	28.98	22.91	18.63
D87C5833SF76	810739-ND	5V, 33MHz, 8-Bit, 32K UV EPROM MCU	40-CDip	31.88	25.20	20.50
N87C581SF76	810724-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-PLCC	7.05	5.55	4.20
N87C5833SF76	810725-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	44-PLCC	7.76	6.11	4.62
P87C581SF76	823402-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	7.05	5.55	4.20
P87C5820SF76	810728-ND	5V, 20MHz, 8-Bit, 32K OTP MCU	40-Dip	7.05	5.55	4.20
P87C5833SF76	810729-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	40-Dip	7.76	6.11	4.62
S87C581SF76	810734-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	7.05	5.55	4.20

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MCS® 96 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
N80C196KB16	804072-ND	5V, 16MHz, 16-Bit MPU	68-PLCC	10.86	8.69	5.73
N80C196KC20	804097-ND	5V, 20MHz, 16-Bit MPU	68-PLCC	14.34	11.29	8.54
N80C196MC	804195-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	84-PLCC	16.45	12.95	9.80
N80C196MD	804212-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	84-PLCC	17.16	13.51	10.22
N80C196MH	804221-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	84-PLCC	19.27	15.17	11.48
N80C196NT	804261-ND	5V, 20MHz, 16-Bit Event Processor Array MPU	68-PLCC	20.68	16.28	12.32
S80C196EA	816572-ND	5V, 40MHz, 16-Bit Event Processor Array MPU	160-QFP	18.90	14.94	12.15
S80C196KB16	804079-ND	5V, 16MHz, 16-Bit HS I/O MPU	80-QFP	10.86	8.69	5.73
S80C196KC20	804117-ND	5V, 20MHz, 16-Bit HS I/O MPU	80-MQFP	14.34	11.29	8.54
S80C196MC	804203-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	80-MQFP	16.45	12.95	9.80
S80C196MH	804227-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	80-MQFP	19.27	15.17	11.48
S80C196NP25	804249-ND	5V, 25MHz, 16-Bit Event Processor Array MPU	100-QFP	17.63	13.88	10.50
S80C196NU40	804302-ND	5V, 40MHz, 16-Bit Event Processor Array MPU	100-QFP	18.80	14.80	11.20
S80C196NU50	804314-ND	5V, 50MHz, 16-Bit Event Processor Array MPU	100-QFP	20.68	16.28	12.32
SB80C196KC20	811735-ND	5V, 20MHz, 16-Bit HS I/O MPU	80-SQFP	14.34	11.29	8.54
SB80C196NP	804243-ND	5V, 25MHz, 16-Bit Event Processor Array MPU	100-SQFP	17.63	13.88	10.50
SB80C196NP25	804256-ND	5V, 25MHz, 16-Bit Event Processor Array MPU	100-SQFP	17.63	13.88	10.50
SB80C196NU40	804308-ND	5V, 40MHz, 16-Bit Event Processor Array MPU	100-SQFP	18.80	14.80	11.20
SB80C196NU50	804321-ND	5V, 50MHz, 16-Bit Event Process or Array MPU	100-SQFP	18.48	14.61	11.88
TN80C196KB16	808448-ND	5V, 16MHz, 16-Bit MPU, Extended Temperature	68-PLCC	11.28	9.02	5.95
TN80C196KC20	804155-ND	5V, 20MHz, 16-Bit High Speed I/O MPU, Extended Temperature	68-PLCC	14.69	11.57	8.75
TN80C196NT	804267-ND	5V, 20MHz, 16-Bit Event Processor Array MPU, Extended Temp.	68-PLCC	18.80	14.86	12.09
AN87C196CAF8	820748-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive	68-PLCC	39.63	31.33	25.48
AN87C196CB20	807838-ND	5V, 20MHz, 16-Bit, 56K OTP MCU, Automotive	84-PLCC	39.48	31.21	25.38
AN87C196JRF8	821035-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	52-PLCC	19.98	15.73	11.90
AN87C196JTWB20	828470-ND	5V, 20MHz, 16-Bit, 32K OTP MCU, Automotive	52-PLCC	21.15	16.65	12.60
AN87C196JV20F8	821068-ND	5V, 20MHz, 16-Bit, 48K OTP MCU, Automotive	52-PLCC	25.20	19.92	16.20
AN87C196KC16F8	820746-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	68-PLCC	18.90	14.94	12.15
AN87C196KDF8	820752-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive	68-PLCC	25.20	19.92	16.20
AN87C196KRF8	820754-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive	68-PLCC	29.53	23.34	18.99
AN87C196KTF8	820756-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	68-PLCC	44.67	35.31	28.72
AN87C196LA20F8	821030-ND	5V, 20MHz, 16-Bit, 24K OTP MCU, Automotive	52-PLCC	33.62	26.58	21.62
AS87C196CB20F8	821067-ND	5V, 20MHz, 16-Bit, 56K OTP MCU, Automotive	100-QFP	39.48	31.21	25.38
N87C196KB16	802532-ND	5V, 16MHz, 16-Bit, 8K OTP MCU	68-PLCC	18.92	14.90	11.27
N87C196KC20	802695-ND	5V, 20MHz, 16-Bit, 16K OTP MCU	68-PLCC	23.21	18.35	14.92
N87C196KD	802848-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	68-PLCC	25.31	20.01	16.27
N87C196KD20	802914-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	68-PLCC	25.31	20.01	16.27
N87C196MC	803344-ND	5V, 16MHz, 16-Bit, 16K OTP Industrial Motor Control MCU	84-PLCC	17.85	14.11	11.48
N87C196MD	803624-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	84-PLCC	18.48	14.61	11.88
N87C196MH	803661-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	84-PLCC	19.95	15.77	12.83
N87C196NT	803728-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	68-PLCC	27.30	21.58	17.55
S87C196KB16	802539-ND	5V, 16MHz, 16-Bit, 8K OTP MCU	80-QFP	18.92	14.90	11.27
S87C196KC20	802755-ND	5V, 20MHz, 16-Bit, 16K OTP MCU	80-MQFP	23.21	18.35	14.92
S87C196KD	802861-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	80-MQFP	25.31	20.01	16.27
S87C196KD20	802931-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	80-MQFP	25.31	20.01	16.27
S87C196MC	803364-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	80-MQFP	17.85	14.11	11.48
S87C196MCSF81	803538-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	80-MQFP	17.85	14.11	11.48
S87C196MD	803636-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	80-MQFP	18.48	14.61	11.88
S87C196MH	803677-ND	5V, 16MHz, 16-Bit, 32K OTP Industrial Motor Control MCU	80-QFP	19.95	15.77	12.83
S87C196MHSF81	803697-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	80-MQFP	19.95	15.77	12.83
SB87C196KC20	802774-ND	5V, 20MHz, 16-Bit, 16K OTP MCU	80-SQFP	23.21	18.35	14.92
SB87C196KD20	802938-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	80-SQFP	25.31	20.01	16.27
TN87C196CA	817074-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Extended Temp.	68-PLCC	24.89	19.68	16.00
TN87C196CB	817075-ND	5V, 16MHz, 16-Bit, 56K OTP MCU, Extended Temp.	84-PLCC	30.77	24.32	19.78
TN87C196KB16	802547-ND	5V, 16MHz, 16-Bit, 8K OTP MCU, Extended Temp.	68-PLCC	19.27	15.17	11.48
TN87C196KC20	802788-ND	5V, 20MHz, 16-Bit, 16K OTP MCU, Extended Temp.	68-PLCC	23.52	18.60	15.12
TN87C196NT	803734-ND	5V, 20MHz, 16-Bit, 32K OTP MCU, Extended Temp.	68-PLCC	27.62	21.83	17.76
U87C196MC	803558-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	64-SDip	18.90	14.94	12.15
U87C196MCSF81	803613-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	64-SDip	18.90	14.94	12.15
U87C196MH	803703-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	64-SDip	21.00	16.60	13.50
U87C196MHSF81	803716-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	64-SDip	21.00	16.60	13.50

MCS® 251 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
N80C251SB16SF87	804421-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM	44-PLCC	11.25	9.00	5.94
N80C251SQ16	804459-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM	44-PLCC	10.70	8.56	5.65
N80C251TB24	816721-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM	44-PLCC	8.80	7.04	4.64
N80C251TQ24	816722-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM	44-PLCC	8.25	6.60	4.35
P80C251SB16	804434-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM	40-Dip	11.25	9.00	5.94
P80C251SQ16	804477-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM	40-Dip	10.70	8.56	5.65
P80C251TB24	816703-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM	40-Dip	8.80	7.04	4.64
P80C251TQ24	816704-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM	40-Dip	8.25	6.60	4.35
TN80C251SB16	804441-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM, Ext. Temp.	44-PLCC	11.66	9.33	6.15
TN80C251SQ16	804487-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM, Ext. Temp.	44-PLCC	11.11	8.89	5.86
TN80C251TB24	816729-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM, Ext. Temp.	44-PLCC	9.21	7.37	4.86
TN80C251TQ24	816720-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM, Ext. Temp.	44-PLCC	8.66	6.93	4.57
TP80C251SB16	804453-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM, Extended Temp.	40-Dip	11.66	9.33	6.15
TP80C251SQ16	804495-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM, Extended Temp.	40-Dip	11.11	8.89	5.86
TP80C251TB24	816714-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM, Extended Temp.	40-Dip	9.21	7.37	4.86
TP80C251TQ24	816718-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM, Ext. Temp.	40-Dip	8.66	6.93	4.57
N87C251SA16	803771-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-PLCC	10.58	8.33	6.30
N87C251SB16SF87	803916-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	11.75	9.25	7.00
N87C251SP16	803998-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-PLCC	10.34	8.14	6.16
N87C251SQ16	804054-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	11.16	8.79	6.65
P87C251SA16	803788-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	10.58	8.33	6.30
P87C251SB16	803923-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	11.75	9.25	7.00
P87C251SP16	804007-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	10.34	8.14	6.16
P87C251SQ16	804066-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	11.16	8.79	6.65
TN87C251SA16	803800-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-PLCC	10.93	8.61	6.51
TN87C251SB16	803953-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	44-PLCC	12.10	9.53	7.21
TN87C251SP16	804021-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-PLCC	10.69	8.42	6.37
TN87C251SQ16	804087-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	44-PLCC	11.52	9.07	6.86
TP87C251SA16	803809-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	40-Dip	10.93	8.61	6.51
TP87C251SB16	803973-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	40-Dip	12.10	9.53	7.21
TP87C251SP16	804036-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	40-Dip	10.69	8.42	6.37
TP87C251SQ16	804103-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	40-Dip	11.52	9.07	6.86

MCS® 296 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
S80296SA40	806832-ND	5V, 40MHz, 16-Bit MPU	100-QFP	22.05	17.43	14.18
S80296SA50	806844-ND	5V, 50MHz, 16-Bit MPU	100-QFP	24.26	19.18	15.60

i960 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
A80960CA16	802846-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	64.85	51.20	44.37
A80960CA25	802884-ND	25MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	69.96	55.23	47.87
A80960CA33	802946-ND	33MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	83.56	65.97	57.18
A80960CF25	803021-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	86.60	68.37	59.26
A80960CF33	803084-ND	33MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	89.78	78.90	69.38
A80960CF40	803133-ND	40MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	111.47	97.97	86.14
A80960HA33SL2GY	813629-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	87.06	68.73	59.57
A80960HA40SL2GZ	813628-ND	40MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	90.74	71.64	62.09
A80960HD50SL2GH	815231-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	168-CPGA	85.19	74.87	65.83
A80960HD66SL2GJ	815230-ND	66MHz, i960HD, 32-Bit MPU, 33MHz Bus, 3.3V	168-CPGA	91.66	80.55	70.83
A80960HD80SL2GK	815177-ND	80MHz, i960HD, 32-Bit MPU, 40MHz Bus, 3.3V	168-CPGA	113.87	100.07	87.99
A80960HT75SL2GP	814114-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	101.76	89.43	78.63

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intel i960 MICROPROCESSORS *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
A80960JA3V25	819528-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-PGA	48.09	37.97	32.91
A80960JA3V33	819529-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-PGA	53.77	42.45	36.79
A80960JD3V33	819533-ND	33MHz, i960JD, 32-Bit MPU, 16MHz Bus, 3.3V, 4K Cache	132-PGA	63.35	50.01	43.35
A80960JD3V50	819536-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	74.18	58.56	50.76
A80960JD3V66	819538-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	80.09	63.23	54.80
A80960JF3V25	819540-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	58.60	46.26	40.10
A80960JF3V33	819542-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	67.58	53.36	46.25
A80960KA16	803435-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-PGA	39.90	31.54	25.65
A80960KA25	803490-ND	25MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-PGA	42.90	33.92	27.59
A80960KB16	803496-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	42.69	33.75	27.45
A80960KB20	803516-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	45.70	36.13	29.38
A80960KB25	803535-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	48.38	38.25	31.11
A80960MC25	816319-ND	25MHz, i960MC, 32-Bit MPU, 512 Byte Cache	132-CPGA	192.05	180.50	173.28
FC80960HA25SL2GU	813626-ND	25MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	65.74	51.90	44.98
FC80960HA33SL2GV	813627-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	73.66	58.16	50.41
FC80960HA40SL2GW	813625-ND	40MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	77.12	60.89	52.77
FC80960HD32SL2GL	815243-ND	32MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	78.36	61.86	53.62
FC80960HD50SL2GM	815241-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	83.89	66.23	57.40
FC80960HD66SL2GN	815238-ND	66MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-SQFP	84.86	74.58	65.58
FC80960HD80SL2LZ	815242-ND	80MHz, i960HD, 32-Bit MPU, 40MHz Bus, 3.3V	208-QFP	95.78	84.18	74.02
FC80960HT75SL2GT	815234-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	89.45	78.61	69.12
FW80960VH100	820682-ND	100MHz, i960VH, 32-Bit MPU, 3.3V, 16K Cache	324-BGA	83.98	66.30	57.46
GD80960JA25	820061-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	28.41	22.46	18.27
GD80960JA33	820063-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	35.47	28.04	22.81
GD80960JF33	819771-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	196-BGA	44.75	35.38	28.77
KU80960CA16	802858-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	196-QFP	71.69	56.68	46.09
KU80960CA25	802900-ND	25MHz, i960CA, 32-Bit MPU with DMA, 5V	196-QFP	51.47	40.64	35.22
KU80960CF25	803044-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	70.78	55.88	48.43
KU80960CF33	803114-ND	33MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	85.37	67.40	58.41
N80960SA10	803819-ND	10MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	19.98	15.73	11.90
N80960SA16	803825-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	21.15	16.72	13.60
N80960SA20	803859-ND	20MHz, i960SA, 32-Bit MPU, 5V	84-PLCC	22.74	17.98	14.63
N80960SA20SW227	803859TR-ND	20MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	3519.75/250		
N80960SB10	803870-ND	10MHz, i960SB, 32-Bit MPU, 512 Byte Cache	84-PLCC	18.75	14.77	11.18
N80960SB16	803883-ND	16MHz, i960SB, 32-Bit MPU, 512 Byte Cache	84-PLCC	20.77	16.36	12.38
NG80960JA3V16819544	819544-ND	16MHz, i960JA, 32-Bit MPU, 2K Cache, 3.3V	132-QFP	23.45	18.47	13.98
NG80960JA3V25	819545-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	28.41	22.46	18.27
NG80960JA3V33	819546-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	35.47	28.04	22.81
NG80960JC33	820340-ND	33MHz, i960JC, 32-Bit MPU, 16MHz Bus, 16K Cache	132-PQFP	55.23	43.66	35.51
NG80960JC66	820343-ND	66MHz, i960JC, 32-Bit MPU, 33MHz Bus, 16K Cache	132-PQFP	67.79	53.52	46.39
NG80960JC50	820342-ND	50MHz, i960JC, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	61.07	48.21	41.79
NG80960JD3V40	819550-ND	40MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	48.66	38.42	33.30
NG80960JD3V50	819551-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	53.92	42.57	36.90
NG80960JD3V66	819553-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	59.76	47.18	40.89
NG80960JF3V25	819556-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	37.42	29.59	24.06
NG80960JF3V33	819557-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	44.75	35.38	28.77
NG80960JS25	820348-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	40.97	32.39	26.34
NG80960JS33	820349-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	49.08	38.80	31.55
NG80960JT100	818018-ND	100MHz, i960JT, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	80.18	63.30	54.86
NG80960KA16	803445-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	22.34	17.67	14.37
NG80960KA20	803464-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	26.12	20.65	16.80
NG80960KB16	803504-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	24.55	19.41	15.79
NG80960KB20	803523-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	27.43	21.68	17.64
NG80960KB25	803540-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	30.53	24.14	19.63
S80960SA16	803843-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache	80-MQFP	22.24	17.58	14.30
TA80960KA20	803470-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	46.18	36.51	29.69
TA80960KB16	803510-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	47.38	37.45	30.46
TA80960KB20	803529-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	50.17	39.66	32.26
TA80960KB25	803546-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	48.20	38.06	32.99
TG80960JA3V25	819558-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache, Extended Temp.	132-QFP	30.85	24.39	19.84
TG80960JC66	826102-ND	66MHz, i960JC, 32-Bit MPU, 16K Cache	132-PQFP	71.14	56.16	48.68
TG80960JS25	824382-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	42.88	33.90	27.57
TG80960JS33	825153-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	51.51	40.72	33.12
TG80960JT100	824389-ND	100MHz, i960JT, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	84.19	66.47	57.61
TG80960KA20	803479-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-QFP	27.43	21.68	17.64
TG80960KB25	803553-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-QFP	33.41	26.42	21.48
TN80960SA16	803846-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	24.95	19.73	16.04
TN80960SB16	803896-ND	16MHz, i960SB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	27.92	21.98	16.64

intel CONTROLLERS (PCI / LAN / WAN / CAN)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
21143PD	821337-ND	PCI/CardBus 10/100 Ethernet LAN Controller	144-QFP	18.80	14.80	11.20
21143TD	821339-ND	PCI/CardBus 10/100 Ethernet LAN Controller	144-TQFP	18.80	14.80	11.20
AN82527F8	820732-ND	CAN Protocol Serial Communications Controller, Automotive	44-PLCC	9.40	7.40	5.60
AS82527F8	820722-ND	CAN Protocol Serial Communications Controller, Automotive	44-QFP	9.40	7.40	5.60
DA82562ET	829706-ND	Platform LAN Connect (PLC) Cont.	48-SSOP	13.79	10.86	8.22
FW82439HXSU115	807787CT-ND	82439HX System Cont. (MHXC)	324-BGA	26.00	21.58	17.55
FW82439TXSL28T	813149TR-ND	82439TX System Cont. (MTXC)	324-BGA	4189.68/360		
FW82439TXSL28T	813149CT-ND	82439TX System Cont. (MTXC)	324-BGA	20.56	16.19	12.25
GCIXF440AC	831001-ND	Multiport 10/100 Mbps Ethernet Controller	352-BGA	60.61	47.85	41.47
GD82550EYSL4MJ	830751-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	34.13	26.98	21.94
GD82559ERSL3DG	825111-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	18.68	14.71	11.13
GD82559SL3HD	822772-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	37.19	29.40	23.91
KU82596CA25SZ716	806726-ND	25MHz, 5V, Local Area Network Coprocessor	132-QFP	33.60	26.56	21.60
KU82596CA33SZ717	806764-ND	33MHz, 5V, Local Area Network Coprocessor	132-QFP	39.90	31.54	25.65
KU82596DX25SZ714	806807-ND	25MHz, 5V, Local Area Network Coprocessor	132-QFP	39.90	31.54	25.65
KU82596DX33SZ715	806835-ND	33MHz, 5V, Local Area Network Coprocessor	132-QFP	44.10	34.86	28.35
KU82596SX20SZ713	806867-ND	20MHz, 5V, Local Area Network Coprocessor	132-QFP	32.55	25.73	20.93
SB82371SBSU093	805436-ND	PCI ISA IDE Xcelerator (PIIX3)	208-QFP	18.80	14.80	11.20
SCD223110QCD	832550-ND	2-Ch. Serial WAN Communications Controller	100-MQFP	21.00	16.60	13.50
SCD240110QCM	832516-ND	4-Ch. Serial WAN Communications Controller	100-MQFP	37.80	29.88	24.30
SCD240210QCM	832517-ND	Intelligent Multiprotocol WAN Communications Controller	160-QFP	21.15	16.65	12.60
SCD243110QCD	832518-ND	Advanced 4-Channel Serial WAN Communications Controller	100-MQFP	37.80	29.88	24.30
SCD248110QCD	832519-ND	Programmable 4-Channel WAN Communications Controller	100-QFP	40.43	31.96	25.99
TN82527	817073-ND	CAN Protocol Serial Communications Controller	44-PLCC	10.15	8.12	5.36

intel ETHERNET CONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
DA82562EM	829707-ND	10/100 Ethernet Platform LAN Connect Bus Controller	48-SSOP	20.30	15.99	12.10
GCIXF1002ED	832414-ND	Dual Port Gigabit Ethernet Media Access Controller	304-BGA	92.07	80.91	71.15
GD82550ELSL4MK	830748-ND	Fast Ethernet PCI/CardBus Cont.	196-BGA	34.13	26.98	21.94
GD82550GMSL4ML	831172-ND	Ethernet PCI/CardBus Cont.	196-BGA	34.13	26.98	21.94
GD82550GYSL4Y5	833858-ND	Fast Ethernet PCI/CardBus Cont.	196-BGA	34.13	26.98	21.94
GD82550PMSL4Y7	834051-ND	Ethernet PCI/CardBus Controller	196-BGA	34.13	26.98	21.94
GD82551ER	844687-ND	Ethernet PCI/CardBus Controller	196-BGA	15.04	11.84	8.96
GD82559CSL3DF	825112-ND	10/100 PCI Bus Mac/PHY Ethernet Controller	196-BGA	37.19	29.40	23.91

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intel ETHERNET CONTROLLERS *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	Price Each ★ 10	Price Each ★ 100
GD82559ERSL3TU	826238-ND	10/100 PCI Bus Mac/PHY Ethernet Controller	196-BGA	20.12	15.91	12.94
RC82562EP	832361-ND	10/100 Ethernet Platform LAN Connect Bus Controller	64-BGA	20.30	15.99	12.10
S82562EH	829047-ND	10/100 Ethernet Platform LAN Connect Bus Controller	64-QFP	11.75	9.25	7.00
S82595FX	806680-ND	ISA/PCMCIA High Integration Ethernet Controller	160-MQFP	29.40	23.24	18.90
SB82558BSL2P4	816075-ND	32-Bit Fast Ethernet PCI Bus Controller with Integrated PHY	208-SQFP	35.70	28.22	22.95
TL82543GCSL4AC	829160-ND	10/100/100 PCI Bus Mac Gigabit Ethernet Controller	352-BGA	98.31	86.40	75.97

intel ETHERNET TRANSCEIVERS / RECEIVERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	Price Each ★ 10	Price Each ★ 100
DJLXT360LE.A2	832029-ND	1-Port Long-Haul T1/E1 Serial Transceiver	44-LQFP	22.33	17.58	13.30
DJLXT361LE.A2	832034-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	44-LQFP	22.33	17.58	13.30
DJLXT362LE.A3	832036-ND	1-Port Long-Haul T1 Serial Transceiver	44-LQFP	20.66	16.27	12.31
DJLXT380LE.B4	832251-ND	3.3V, 8-Port Short-Haul E1 Transceiver	144-LQFP	43.89	34.70	28.22
DJLXT381LE.B4	832255-ND	3.3V, 8-Port Short-Haul E1 Transceiver	144-LQFP	35.70	28.22	22.95
DJLXT386LEB2834195	834195-ND	Quad T1/E1/J1 Short-Haul Xcvr.	100-LQFP	39.69	31.38	25.52
DJLXT388LEB2834197	834197-ND	Dual T1/E1/J1 Short-Haul Xcvr.	100-LQFP	21.23	16.79	13.65
DJLXT901ALC.A4	831684-ND	5V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.18	9.75	6.43
DJLXT901LC.E2	831686-ND	5V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	11.11	8.89	5.86
DJLXT905LC.C2	831645-ND	3.3V/5V, Univ. 10BASE-T Xcvr.	32-LQFP	7.92	6.34	4.18
DJLXT905LE.C2	831646-ND	3.3V/5V, Univ. 10BASE-T Xcvr.	32-LQFP	10.62	8.50	5.60
DJLXT907ALC.A4	831647-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.18	9.75	6.43
DJLXT908LC.A4	831651-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.27	9.82	6.47
DJLXT908LE.A4	831652-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.87	10.30	6.79
DJLXT971ALCA4834105	834105-ND	3.3V, Fast Ethernet Transceiver	64-LQFP	10.59	8.47	5.59
DJLXT971ALE.A4	835676-ND	3.3V, 10/100Mbps Ethernet Xcvr.	64-LQFP	13.31	10.65	7.02
DJLXT972ALCA4834109	834109-ND	3.3V, Fast Ethernet Transceiver	64-LQFP	8.42	6.74	4.44
FALXT970ATCB11	833825-ND	10/100Mbps Ethernet Transceiver	64-TQFP	13.65	10.75	8.14
FLLXT380BE.B4	832318-ND	3.3V, 8-Port Short-Haul E1 Transceiver	160-BGA	39.90	31.50	27.30
FLLXT381BE.B4	832063-ND	3.3V, 8-Port Short-Haul E1 Transceiver	160-BGA	37.62	29.70	25.74
FLLXT384BEA5834969	834969-ND	8-Port T1/E1 Short-Haul Xcvr.	160-BGA	72.60	63.80	56.10
FLLXT386BEB2834206	834206-ND	Quad T1/E1/J1 Short-Haul Xcvr.	160-BGA	39.69	31.38	25.52
FLLXT971ABCA4834103	834103-ND	3.3V, Fast Ethernet Transceiver	64-BGA	11.14	8.77	6.64
FLLXT971ABEA4834104	834104-ND	3.3V, Fast Ethernet Transceiver	64-BGA	12.81	10.09	7.63
FLLXT1000BAC5	838350-ND	Gigabit Ethernet Transceiver	492-BGA	43.22	34.17	27.79
FWLXT9781BCA9831679	831679-ND	8-Port Fast Ethernet Xcvr. (RMII)	272-BGA	21.84	17.27	14.04
FWLXT9781BC.C4	834112-ND	8-Port Fast Ethernet Xcvr. (RMII)	272-BGA	33.60	26.56	21.60
FWLXT9782BCA9831681	831681-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	21.84	17.27	14.04
FWLXT9782BC.C4	834115-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	33.60	26.56	21.60
FWLXT9784BCA3834928	834928-ND	8-Port Fast Ethernet Transceiver (SMII, RMII)	324-BGA	73.50	58.10	47.25
FWLXT9784BE.A3	833561-ND	3.3V, 8-PORT 10/100Mbps Transceiver (RMII, SMII)	324-BGA	73.50	58.10	47.25
FWLXT9785BCB1QE000	835557-ND	Low-Power 8-Port Fast Ethernet Transceiver	241-BGA	23.71	18.75	15.25
HBLXT970AHCB11	831600-ND	10/100Mbps Ethernet Xcvr.	64-HQFP	16.31	12.84	9.72
HBLXT974BHC.A8	831627-ND	5V, 4-Port 10/100 Ethernet Transceiver	160-HQFP	21.19	16.75	13.63
HBLXT975BHC.A8	831630-ND	5V, 4-Port 10/100 Ethernet Transceiver	160-HQFP	21.19	16.75	13.63
HBLXT9761HCB2835066	835066-ND	6-Port Fast Ethernet Xcvr. (RMII)	208-HQFP	18.82	14.88	12.10
HBLXT9761HC.C4	837202-ND	6-Port Fast Ethernet Xcvr. (RMII)	208-HQFP	33.60	26.56	21.60
HBLXT9762HCB2835376	835376-ND	6-Port Fast Ethernet Xcvr. (SMII)	208-HQFP	18.82	14.88	12.10
HBLXT9762HC.C4	835378-ND	6-Port Fast Ethernet Xcvr. (SMII)	208-HQFP	33.60	26.56	21.60
HBLXT9763HCA9831634	831634-ND	6-Port Fast Ethernet Xcvr. (MII)	208-HQFP	18.82	14.88	12.10
HBLXT9763HC.C4	834111-ND	6-Port Fast Ethernet Xcvr. (MII)	208-HQFP	33.60	26.56	21.60
HBLXT9781HC.C4	834114-ND	3.3V, 8-PORT 10/100Mbps Transceiver (RMII)	208-HQFP	33.60	26.56	21.60
N82503	806119-ND	Dual Serial Ethernet Transceiver (802.3 10BASE-T/AUI)	44-PLCC	11.75	9.25	7.00
NLXT305APE.F4	832103-ND	5V, T1/E1 Short-Haul Transceiver	28-PLCC	15.28	12.03	9.10
NLXT307PE.F4	832110-ND	5V, E1 Short-Haul Xcvr.	28-PLCC	13.59	10.87	7.17
NLXT317PE.A2	832059-ND	5V, Long-Haul DECT LIU Xcvr.	28-PLCC	22.05	17.43	14.18
NLXT318PE.B5	832080-ND	5V, Long-Haul E1 NTU/ISDN PRI Transceiver	28-PLCC	22.91	18.04	13.65
NLXT332PE.G2	832128-ND	5V, Short-Haul 2-Ch. LIU T1/E1 Transceiver	44-PLCC	25.20	19.92	16.20
NLXT350PE.A2	832138-ND	1-Port Short-Haul T1/E1/J1 Serial Transceiver	28-PLCC	16.45	12.95	9.80
NLXT351PE.A2	832141-ND	1-Port Short-Haul T1/E1/J1 Parallel Transceiver	28-PLCC	16.45	12.95	9.80
NLXT360PE.A2	832100-ND	1-Port Long-Haul T1/E1 Serial Transceiver	28-PLCC	21.15	16.65	12.60
NLXT361PE.A2	832102-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	28-PLCC	21.15	16.65	12.60
NLXT362PE.A3	832121-ND	1-Port Long-Haul T1 Serial Transceiver	28-PLCC	16.59	13.07	9.89
NLXT901APC.A4	831653-ND	5V, Universal 10BASE-T/AUI Transceiver	44-PLCC	10.67	8.54	5.63
NLXT905PC.C2	831661-ND	3.3V/5V, Universal 10BASE-T Transceiver	28-PLCC	6.93	5.55	3.66
NLXT905PE.C2	831662-ND	3.3V/5V, Universal 10BASE-T Transceiver	28-PLCC	10.07	8.06	5.31
NLXT907APC.A4	831664-ND	3.3V, Universal 10BASE-T/AUI Transceiver	44-PLCC	11.85	9.49	6.25
NLXT907PC.E2	831666-ND	5V, Universal 10BASE-T/AUI Transceiver	44-PLCC	10.84	8.67	5.72
NLXT908PC.A4	831668-ND	3.3V, Universal 10BASE-T/AUI Transceiver	44-PLCC	11.66	9.33	6.15
NLXT908PE.A4	831669-ND	3.3V, Universal 10BASE-T/AUI Transceiver	44-PLCC	12.57	10.06	6.63
PDLXT305ANE.F4	832171-ND	5V, T1/E1 Short-Haul Xcvr.	28-Dip	16.45	12.95	9.80
PDLXT312ANE.A2	832288-ND	5V, Low Power, Dual T1 PCM Repeater/Transceiver	16-Dip	15.75	12.45	10.13
PDLXT315ANE.A2	832291-ND	5V, Low Power T1 PCM Repeater/Transceiver	16-Dip	16.45	12.95	9.80
S82503	806140-ND	Dual Serial Ethernet Transceiver (802.3 10BASE-T/AUI)	44-MQFP	11.75	9.25	7.00
SLXT332AQE.A1	832209-ND	5V, Short-Haul 2-Channel LIU T1/E1 Transceiver	44-QFP	21.00	16.60	13.50
SLXT332QE.G2	832211-ND	5V, Short-Haul 2-Channel LIU T1/E1 Transceiver	44-QFP	26.25	20.75	16.88
SLXT334QE.B3	832215-ND	5V, Short-Haul 4-Channel E1 Transceiver	64-QFP	28.35	22.41	18.23
SLXT335QE.B3	832219-ND	5V, 4-Ch. Analog Interface	64-QFP	25.20	19.92	16.20
SLXT336QE.B3	832224-ND	5V, Short-Haul 4-Channel T1/E1 Receiver	64-QFP	25.20	19.92	16.20
SLXT350QE.A2	832244-ND	1-Port Short-Haul T1/E1/J1 Serial Transceiver	44-QFP	17.63	13.88	10.50
SLXT351QE.A2	832246-ND	1-Port Short-Haul T1/E1/J1 Parallel Transceiver	44-QFP	18.80	14.80	11.20
SLXT360QE.A2	832197-ND	1-Port Long-Haul T1/E1 Serial Transceiver	44-QFP	22.33	17.58	13.30
SLXT361QE.A2	832199-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	44-QFP	22.33	17.58	13.30
SLXT970AQC.B11	831643-ND	10/100Mbps Ethernet Transceiver	64-QFP	13.04	10.27	7.77

intel ETHERNET REPEATERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	Price Each ★ 10	Price Each ★ 100
HBLXT980AHC.A8	831496-ND	5V, 4-Port 10/100Mbps Ethernet Repeater	208-HQFP	39.90	31.54	25.65
HBLXT983AHC.A8	831536-ND	5V, 4-Port 10/100Mbps Ethernet Repeater	208-HQFP	33.60	26.56	21.60
HBLXT983QC.A8	831540-ND	5V, 4-Port 10/100Mbps Ethernet Repeater	208-HQFP	33.60	26.56	21.60
HBLXT9860HCB3831549	831549-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	28.98	22.91	18.63
HBLXT9860AHC.B4	837730-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	28.98	22.91	18.63
HBLXT9863HCB3834131	834131-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	21.86	17.29	14.06
HBLXT9863AHC.B4	837734-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	21.86	17.29	14.06
HBLXT9880HCB3834132	834132-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	42.76	33.80	27.49
HBLXT9880AHC.B4	837736-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	42.76	33.80	27.49
HBLXT9883HCB3834133	834133-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	27.32	21.60	17.57
HBLXT9883AHC.B4	837738-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	27.32	21.60	17.57
NLXT914PC.C4	831509-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, SMI, AUI)	68-PLCC	15.96	12.57	9.51
NLXT914PE.B3	831518-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, SMI, AUI)	68-PLCC	18.66	14.69	11.12
SLXT914QC.C4	831524-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	100-QFP	14.36	11.31	8.56
SLXT915QC.C4	834924-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	64-QFP	12.29	9.68	7.33

intel TELECOM BROADBAND

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	Price Each ★ 10	Price Each ★ 100
DJLXT6155LEA4QE001	831868-ND	SDH/SONET/ATM Transceiver	64-LQFP	56.68	44.75	38.78
DJLXT6282LEA3831836	831836-ND	Octal E1 Digital Interface Xcvr.	144-LQFP	60.86	48.11	39.13
FLIXF6151BEA2834984	834984-ND	28 T1/E1 Mapper	352-BGA	79.14	74.38	71.40
IXF6401BEC7A1835148	835148-ND	Broadband Access Processor	352-BGA	274.65	258.13	247.80
SLXT6051QEA1831841	831841-ND	SDH/SONET Overhead Terminator	208-QFP	116.16	102.08	89.76
SLXT6234QEA2831690	831690-ND	E-Rate Multiplexer	100-QFP	51.09	40.39	32.85
SLXT6251AQE.A2	834982-ND	21 E1 Synchronous Digital Hierarchy Mapper	208-QFP	143.43	126.05	110.84

intel PCI-to-PCI BRIDGES

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	Price Each ★ 10	Price Each ★ 100
21050AB	821286-ND	PCI-to-PCI Bridge	208-QFP	30.35	23.99	19.51
S21152BB	837092-ND	32-Bit, 33MHz Transparent PCI-to-PCI Bridge	160-QFP	23.15	18.23	13.79
FW21555AA	836622-ND	64-Bit, 33MHz Transparent PCI-to-PCI Bridge	304-BGA	52.65	41.57	36.03
FW21555ABSL6G8	848191-ND	64-Bit, 66MHz, PCI-to-PCI Bridge	304-BGA	52.65	41.57	36.03
FW21154AE	834404-ND	64-Bit, 33MHz Transparent PCI-to-PCI Bridge	304-BGA	47.80	37.79	30.73
FW21154BE	834405-ND	64-Bit, 66MHz Transparent PCI-to-PCI Bridge	304-BGA	52.65	41.57	36.03
GD21150BC	828154-ND	32-Bit, 66MHz Transparent PCI-to-PCI Bridge	256-LPBGA	42.82	33.85	27.53
SB21150AC	823168-ND	32-Bit, 33MHz Transparent PCI-to-PCI Bridge	208-QFP	39.06	30.88	25.11
SB21150BC	822894-ND	32-Bit, 66MHz Transparent PCI-to-PCI Bridge	208-QFP	42.82	33.85	27.53

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INTERFACE ADAPTERS/CARDS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
SPD6722QCCE	832530-ND	ISA-to-PC Card Controller	208-MQFP	18.40	14.55	11.83
DZPD6710VCB	832520-ND	ISA-to-PC-Card Host Adapter	144-VQFP	17.27	13.60	10.29
A8238910	808498-ND	Multibus II Bus Interface Cont.	149-CPGA	138.60	121.80	107.10
DZPD6729VCE	832535-ND	PCI-to-PC Card Controller	208-LQFP	23.73	18.76	15.26
SPD6729QCE	832534-ND	PCI-to-PC Card Controller	208-MQFP	19.82	15.67	12.75
SPD6729QCC	832533-ND	PCI-to-PCMCIA Host Adapter	208-QFP	22.33	17.58	13.30
CNLA6000PK5	830447-ND	PRO/100 VE Desktop Adapter		178.95	168.19	161.46
MBLA3400C3	829954-ND	PRO/100 SR Mobile Adapter		91.77	86.25	82.80
MBLA3456C3	829957-ND	PRO/100 SR Combo Mobile Adapter		198.17	186.25	178.80
PILA8460C	832696-ND	PRO/100 S Desktop Adapter		74.25	65.25	57.38
PILA8470C3	832702-ND	PRO/100 S Server Adapter		87.45	76.85	67.58
PWLA8490SX	825706-ND	PRO/1000 F Server Adapter Card (1000BASE-SX)		675.00	664.20	648.00
PWLA8490T	825708-ND	PRO/1000 T Server Adapter Card (1000BASE-T)		198.17	186.25	178.80

FLASH MEMORY

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
E28F008S5120	808704-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	8.20	6.46	4.89
E28F008S585	808711-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	8.20	6.46	4.89
E28F008SA120	801050-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	8.20	6.46	4.89
E28F008SA85	801338-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	8.20	6.46	4.89
PA28F008S5120	808708-ND	8Mb, 5V, FLASH Memory (1Mx8)	44-PSOP	8.20	6.46	4.89
PA28F008S585	808715-ND	8Mb, 5V, FLASH Memory (1Mx8)	44-PSOP	8.20	6.46	4.89
PA28F008SA120	801246-ND	8Mb, 5V, FLASH Memory (1Mx8)	44-PSOP	8.20	6.46	4.89
PA28F008SA85	801480-ND	8Mb, 5V, FLASH Memory (1Mx8)	44-PSOP	8.20	6.46	4.89
TB28F008S5100SL2LL	815398-ND	8Mb, 5V, FLASH Memory (1Mx8)	44-PSOP	8.20	6.46	4.89
TB28F008SA100	816471-ND	8Mb, 5V, FLASH Memory (1Mx8)	44-PSOP	8.20	6.46	4.89
TE28F008S5100SL2LL	816751-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	8.20	6.46	4.89
TE28F008SA100	811350-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	8.20	6.46	4.89
GT28F160B3BA110	819280-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	11.89	9.37	7.09
GT28F160B3BA90SB93	823475-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	12.22	9.62	7.28
GT28F160C3BA110	819287-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	11.89	9.37	7.09
GT28F160C3BA90SB93	823477-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	11.89	9.37	7.09
GT28F160C3TA110	819293-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	11.89	9.37	7.09
GT28F160C3TA90	819083-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	11.89	9.37	7.09
GT28F160C3TA90SB93	823478-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	11.89	9.37	7.09
RC28F160C3BA110	830116-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	10.97	8.64	6.54
RC28F160C3BD70	853981-ND	16Mb, 3V, FLASH Memory (1Mx16) *NEW!*	64-BGA	12.84	10.28	6.78
RC28F160C3TA110	830115-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	10.97	8.64	6.54
RC28F160C3TA90	825548-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	10.97	8.64	6.54
RC28F160C3TA90SB93	827673-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	10.97	8.64	6.54
TE28F160B3BA110	819304-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	12.65	10.12	6.67
TE28F160B3BA90SB93	823471-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	11.40	8.98	6.79
TE28F160B3TC70SL6KP	849331-ND	16Mb, 3V, FLASH Memory (1Mx16) *NEW!*	48-TSOP	12.84	10.28	6.78
TE28F160C3BC90	852043-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	12.84	10.28	6.78
TE28F160C3TA90SB93	823474-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	10.97	8.64	6.54
E28F320J3A110	834996-ND	32Mb, 3V, FLASH Memory (4Mx8, 2Mx16)	56-TSOP	14.85	11.74	9.55
E28F320J3A110SB93	834999-ND	32Mb, 3V, FLASH Memory (4Mx8, 2Mx16)	56-TSOP	16.61	13.08	9.90
GE28F320B3BC70	831096-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	20.31	16.06	13.06
GE28F320B3BC70SB93	831112-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	20.31	16.06	13.06
GE28F320B3BC90	830951-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	20.31	16.06	13.06
GE28F320C3BC70	831098-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	20.31	16.06	13.06
GE28F320C3BC70SB93	831113-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	20.31	16.06	13.06
GE28F320C3BC90	830946-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	20.31	16.06	13.06
GE28F320C3TC70SB93	831095-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	20.31	16.06	13.06
GE28F320C3TC90	830950-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	20.31	16.06	13.06
GT28F320B3BA100	823191-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	20.31	16.06	13.06
GT28F320B3BA100SB93	823193-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	22.72	17.89	13.54
GT28F320B3TA100	823197-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	20.31	16.06	13.06
GT28F320B3TA100SB93	823211-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	18.27	14.45	11.75
GT28F320B3TA110	820972-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	20.31	16.06	13.06
GT28F320C3BA100	823205-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	20.31	16.06	13.06
GT28F320C3BA100SB93	823207-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	20.31	16.06	13.06
GT28F320C3BA110	820975-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	20.31	16.06	13.06
GT28F320C3TA100SB93	823213-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	20.31	16.06	13.06
GT28F320C3TA110	820978-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	20.31	16.06	13.06
RC28F320C3BA100	828107-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	18.52	14.65	11.91
RC28F320C3BA100SB93	828102-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	18.52	14.65	11.91
RC28F320C3BA110	828110-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	18.52	14.65	11.91
RC28F320C3BC90	835725-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	18.52	14.65	11.91
RC28F320C3TA100SB93	828104-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	18.52	14.65	11.91
RC28F320C3TA110	828112-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	18.52	14.65	11.91
RC28F320C3TC90	835729-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	18.52	14.65	11.91
RC28F320J3A110	834965-ND	32Mb, 3V, FLASH Memory (4Mx8, 2Mx16)	64-BGA	14.85	11.74	9.55
RC28F320J3A110SB93	834974-ND	32Mb, 3V, FLASH Memory (4Mx8, 2Mx16)	64-BGA	16.61	13.08	9.90
RC28F320J3A110SL5FU	835071-ND	32Mb, 3V, FLASH Memory (4Mx8, 2Mx16)	64-BGA	16.61	13.08	9.90
TE28F320B3BA100SB93	823216-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	20.73	16.32	12.35
TE28F320B3BC70SB93	833381-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320B3BC90	833379-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320B3TA100SB93	823219-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320B3TA110	820964-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320C3BA100	823220-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320C3BA100SB93	823222-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	20.73	16.32	12.35
TE28F320C3BA110	820967-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320C3BC70	833387-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320C3BC70SB93	833382-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320C3BC90	833377-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320C3TC70	833388-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320C3TC70SB93	833380-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
TE28F320C3TC90	833376-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	18.52	14.65	11.91
DA28F320J5120	827726-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-SSOP	17.51	13.85	11.26
DA28F320J5120SB93	821279-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-SSOP	17.51	13.85	11.26
DA28F320J5120SL2XC	818797-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-SSOP	17.51	13.85	11.26
DA28F320J5120SL39R	821278-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-SSOP	17.51	13.85	11.26
DA28F320J5A120SB93	832691-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-SSOP	19.60	15.43	11.68
DT28F320J5120	825636-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-SSOP	17.51	13.85	11.26
E28F320J5120	827731-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-TSOP	17.51	13.85	11.26
E28F320J5120SL2XB	818759-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-TSOP	17.51	13.85	11.26
E28F320J5A120SB93	832671-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-TSOP	19.60	15.43	11.68
E28F640J3A120SL4AX	829867-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	56-TSOP	24.36	19.26	15.66
E28F640J3A120SL5AQ	834162-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	56-TSOP	24.07	19.03	15.48
E28F640J3A120SL5AR	834161-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	56-TSOP	24.07	19.03	15.48
RC28F640J3A120SL4AX	829865-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	64-BGA	24.07	19.03	15.48
RC28F640J3A120SL5AQ	834165-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	64-BGA	24.07	19.03	15.48
RC28F640J3A120SL5AR	834164-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	64-BGA	24.07	19.03	15.48
DT28F640J5A150	848209-ND	64Mb, 5V, FLASH Memory (8Mx8, 4Mx16), Ext. Temp	56-SSOP	33.03	26.12	21.24
E28F128J3A150 S L56L	833863-ND	128Mb, 3V, FLASH Memory (16Mx8, 8Mx16)	56-TSOP	36.18	28.61	23.27
E28F128J3A150SL56K	833866-ND	128Mb, 3V, FLASH Memory (16Mx8, 8Mx16) *NEW!*	56-TSOP	36.18	28.61	23.27

DIRECT DIGITAL SYNTHESIS PRODUCTS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
1375A80CE	828902-ND	Miniature 25MHz Digital Frequency Synthesizer	35-DIL	641.25	630.99	615.60
N1175.125CM	828564-ND	125MHz, 32-Bit, Phase Modulated Numerically Controlled Oscillator	68-PLCC	49.88	39.43	32.07
N1176CM	828565-ND	80MHz, BCD/Decimal Numerically Controlled Oscillator	84-PLCC	156.75	137.75	121.13
N1177CM	828566-ND	60MHz, PM, FM, and Quadrature Numerically Controlled Oscillator	84-PLCC	164.26	154.38	148.20
P1173CL	828552-ND	50MHz, 48-Bit, High Resolution Numerically Controlled Oscillator	48-Dip	81.23	64.13	55.58

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FORWARD ERROR CORRECTION PRODUCTS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
N2040BCM	828651-ND	256 KBPS Convolutional Encoder/Viterbi Decoder	68-PLCC	47.88	37.85	30.78
S2060CCR	828656-ND	45 MBPS Viterbi Decoder	100-QFP	81.23	64.13	55.58

DEMODULATION AND CODING PRODUCTS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
N2105CM	828541-ND	Digital CMOS QPSK Cable Demodulator	68-PLCC	23.10	18.26	14.85
SB2176CR	828543-ND	Digital Modulator/Demodulator Cable Modem ASIC with FEC	208-SQFP	49.88	39.43	32.07

PERIPHERAL INTERFACE PRODUCTS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
GCIXB3208AA	831425-ND	8-Port, 32-Bit, IX Bus Peripheral Controller	352-BGA	106.92	93.96	82.62
N87C42	804115-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller	44-PLCC	16.45	12.95	9.80
P87C42	804121-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller	40-Dip	16.45	12.95	9.80
S87C42	804133-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller	44-MQFP	16.45	12.95	9.80
SCD128310QCE	832512-ND	IEEE 1284 Compatible Parallel Interface Controller	100-MQFP	19.98	15.73	11.90
SCD128410QCE	832513-ND	IEEE 1284 Parallel Interface Controller w/ Dual Serial Ports	100-MQFP	21.00	16.60	13.50
SCD140010QCJ	832514-ND	4-Channel, Serial/Parallel Communications Transceiver	100-MQFP	21.00	16.60	13.50
SCD186510QCB	832515-ND	8-Channel, Full-Duplex, Serial Communications Controller	100-MQFP	34.65	27.39	22.28

MODEM CHIPSETS, CONTROLLERS, DSPs, AFEs

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
MD5660AMS101	830882-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, MD1724T11VCB)		18.80	14.80	11.20
MD5661AMV101	830883-ND	PCMCIA Modem Chipset (MD4451CVCB, MD5661DTLA, MD1724T11VCB)		17.85	14.11	11.48
MD5662AMS101	830884-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, (MD1724T11VCB, 2pcs)		21.63	17.10	13.91
MD5675TS101	830885-ND	USB MODEM CHIPSET(MD4470CSCB, MD5660DTMA, MD1724T11VCB)		18.90	14.94	12.15
DQMD4451CVCB	830839-ND	5V, 4451CV Controller	128-LQFP	9.40	7.40	5.60
FYMD4450CSCB	830837-ND	5V, 4450CS Controller	128-SQFP	8.23	6.48	4.90
FYMD4450CVCB	830890-ND	5V, 4450CV Controller	128-SQFP	16.59	13.07	9.89
FYMD4470CSCB	830849-ND	5V, 4470CS Controller	128-SQFP	16.17	12.73	9.64
DJMD5628DLB	830836-ND	3.3V, 5628 Digital Signal Processor	100-LQFP	8.23	6.48	4.90
DQMD5661DTLA	830848-ND	3.3V, 5661 Digital Signal Processor	128-LQFP	9.40	7.40	5.60
FYMD5660DTMA	830842-ND	3.3V, 5660 Digital Signal Processor	128-SQFP	8.23	6.48	4.90
FYMD8820	830850-ND	3.3V, 8820 Digital Signal Processor	128-SQFP	47.77	37.71	32.69
DYMD1724T11VCB	830851-ND	5V, Sigma-Delta Analog Front End	44-LQFP	5.00	4.00	2.38

INTEGRATED CIRCUITS

Power Management

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
BSP76-E6327	BSP76-E6327INCT-ND	Smart Lowside Power Switch	SOT-223	1.54	1.34	1.03
BSP76-E6327	BSP76-E6327INTR-ND	Smart Lowside Power Switch	SOT-223	680.00/1,000		
BSP742T	BSP742TINCT-ND	Smart Power Highside Switch	P-DSO-8	1.76	1.53	1.18
BSP742T	BSP742TINTR-ND	Smart Power Highside Switch	P-DSO-8	1950.00/2,500		
BTS282Z-E3180A	BTS282ZE3180AINCT-ND	Enhancement Mode N-Channel Speed TEMPFET®	P-TO220-7-3	4.56	3.98	2.96
BTS282Z-E3180A	BTS282ZE3180AINTR-ND	Enhancement Mode N-Channel Speed TEMPFET®	P-TO220-7-3	2800.00/1,000		
BTS117	BTS117IN-ND	Smart Lowside Power Switch	P - TO-220-3-1	2.31	1.93	1.62
BTS133	BTS133IN-ND	Smart Lowside Power Switch	P - TO-220-3-1	2.78	2.43	1.81
BTS141	BTS141IN-ND	Smart Lowside Power Switch	P - TO-220-3-1	4.10	3.58	2.66
BTS409L1	BTS409L1IN-ND	Smart Highside Power Switch	TO-220AB/5	2.82	2.35	1.98
BTS410F2-E3062A	BTS410F2E3062INCT-ND	Smart Highside Power Switch	TO-220AB/5	3.70	3.22	2.40
BTS410F2-E3062A	BTS410F2E3062INTR-ND	Smart Highside Power Switch	TO-220AB/5	2270.00/2,500		
BTS428L2	BTS428L2INCT-ND	One Channel: 60mΩ, Smart Highside Power Switch	TO-252-5-1	2.70	2.35	1.75
BTS428L2	BTS428L2INTR-ND	One Channel: 60mΩ, Smart Highside Power Switch	TO-252-5-1	4150.00/2,500		
BTS432E2	BTS432E2IN-ND	Smart Highside Power Switch	TO-220AB/5	5.48	4.78	3.56
BTS442E2	BTS442E2IN-ND	Smart Highside Power Switch	TO-220AB/5	6.14	5.61	4.44
BTS443P	BTS443PINCT-ND	Smart Highside Power Switch	TO-252-5-1	3.65	3.18	2.37
BTS443P	BTS443PINTR-ND	Smart Highside Power Switch	TO-252-5-1	5602.50/2,500		
BTS611L1	BTS611L1IN-ND	Smart Two Channel Highside Power Switch	TO-220AB/7	3.16	2.75	2.05
BTS621L1	BTS621L1IN-ND	Smart Two Channel Highside Power Switch	TO-220AB/7	3.24	2.82	2.10
BTS640S2-G	BTS640S2-GINCT-ND	Smart Sense Highside Power Switch	TO-220-7-11	3.92	3.41	2.54
BTS640S2-G	BTS640S2-GINTR-ND	Smart Sense Highside Power Switch	TO-220-7-11	2400.00/1,000		
BTS650P	BTS650PIN-ND	Smart Highside High Current Power Switch	TO-220AB/7	6.14	5.61	4.44
BTS660P	BTS660PIN-ND	Smart Highside High Current Power Switch	TO-220-7SMD	6.46	5.91	4.67
BTS711L1	BTS711L1INCT-ND	Smart Four Channel Highside Power Switch	P-DSO-20-9	5.40	4.70	3.50
BTS711L1	BTS711L1INTR-ND	Smart Four Channel Highside Power Switch	P-DSO-20-9	3310.00/1,000		
BTS716G	BTS716GINCT-ND	Four Channel Smart Highside Power Switch	P-DSO-20	3.92	3.41	2.54
BTS716G	BTS716GINTR-ND	Four Channel Smart Highside Power Switch	P-DSO-20	2400.00/1,000		
TLE4267S	TLE4267SIN-ND	5V, Low-Drop Voltage Regulator	P-TO-220-7	1.66	1.57	1.14
TLE4270G	TLE4270GINCT-ND	5V, Low-Drop Fixed Voltage Regulator	P-TO263-5-1	2.79	2.56	2.28
TLE4270G	TLE4270GINTR-ND	5V, Low-Drop Fixed Voltage Regulator	P-TO263-5-1	1540.00/1,000		
TLE4271-2G	TLE4271-2GINCT-ND	5V, Low-Drop Fixed Voltage Regulator	P-TO263-7-1	2.97	2.73	2.43
TLE4271-2G	TLE4271-2GINTR-ND	5V, Low-Drop Fixed Voltage Regulator	P-TO263-7-1	1640.00/1,000		
TLE4274V50	TLE4274V50IN-ND	Low-Drop Voltage Regulator	P-TO220-3-1	.95	.89	.65

Sensors

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
GMR C6	GMRC6INCT-ND	Giant Magneto Resistive Position Sensor	SMD	5.27	4.59	3.42
KT210	KT210IN-ND	Silicon Temperature Sensor	TO-92 Mini	2.93	2.34	1.76
KT230	KT230INCT-ND	Silicon Temperature Sensor	SOT-23	.90	.78	0.00
KT230	KT230INTR-ND	Silicon Temperature Sensor	SOT-23	1200.02/3,000		
KTY135	KTY135INCT-ND	Silicon Temperature Sensor	SOT-23	.94	.82	.63
KTY135	KTY135INTR-ND	Silicon Temperature Sensor	SOT-23	1251.00/3,000		
KTY136	KTY136INCT-ND	Silicon Temperature Sensor	SOT-23	1.24	1.08	.83
KTY136	KTY136INTR-ND	Silicon Temperature Sensor	SOT-23	1650.00/3,000		
KTY216	KTY216IN-ND	Silicon Temperature Sensor	TO-92 Mini	6.38	5.53	4.25
KTY236	KTY236INCT-ND	Silicon Temperature Sensor	SOT-23	1.24	1.08	.83
KTY236	KTY236INTR-ND	Silicon Temperature Sensor	SOT-23	1650.00/3,000		
TLE4905G	TLE4905GINCT-ND	Hall IC Switch for Magnetic Field Applications	SOT-89	.96	.88	.79
TLE4913	TLE4913INCT-ND	Low Power Hall Switch	SC-59-3-1	.77	.71	.63
TLE4913	TLE4913INTR-ND	Low Power Hall Switch	SC-59-3-1	1350.00/3,000		
TLE4935G	TLE4935GINCT-ND	Hall IC Switch for Magnetic Field Applications	SOT-89	.96	.88	.79
TLE4935G	TLE4935GINTR-ND	Hall IC Switch for Magnetic Field Applications	SOT-89	533.00/1,000		
TLE4945-2L	TLE4945-2LINTB-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2	1134.00/2,000		
TLE4945-2L	TLE4945-2LINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2	1.02	.94	.84

Specialized Integrated Circuits

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
PEB2045N-VA3TR	PEB2045N-VA3INTR-ND	Memory Time Switch CMOS (MTSC)	P-LCC-44	8425.00/500		
PEB2075N-V13TR	PEB2075N-V13INCT-ND	ISDN D-Channel Exchange Controller (IDEC®)	P-LCC-44	24.42	21.80	15.26
PEB2075N-V13TR	PEB2075N-V13INTR-ND	ISDN D-Channel Exchange Controller (IDEC®)	P-LCC-44	5815.02/500		
PEB2255H-V13	PEB2255H-V13IN-ND	E1/T1/J1 Framer and Line Interface Component for Long and Short Haul Applications FALC®-LH	P-MQFP-80-1	39.73	37.80	30.28
PEB2256H-V12	PEB2256H-V12IN-ND	E1/T1/J1 Framer and Line Interface Component for Long and Short Haul Applications FALC56	P-MQFP-80-1	28.00	26.70	21.34
PEB3265H-V13	PEB3265H-V13IN-ND	Dual Channel Subscriber Line Interface Codec Filter SLICOFI-2x	P-MQFP-64-1	10.85	10.40	8.27
PEB20256E-V21	PEB20256E-V21IN-ND	Multichannel Network Interface Controller for HDLC/PPP	P-BGA-388	201.25	191.61	153.33
PEB20320H-V34	PEB20320H-V34IN-ND	Multichannel Network Interface Controller for HDLC	P-MQFP-160-1	65.10	62.00	49.60
PEB20321H-V22	PEB20321H-V22IN-ND	Multichannel Network Interface Controller for HDLC with Extensions	P-MQFP-160-1	81.73	77.80	62.27
PEB20534H10-V21	PEB20534H10-V21IN-ND	DMA Supported Serial Communication Controller with 4 Channels	P-FQFP-208-7	75.25	67.05	57.34
PEB20534H52-V21	PEB20534H52-V21IN-ND	DMA Supported Serial Communication Controller with 4 Channels	P-FQFP-208-7	95.55	85.17	72.80
PEB22504HT-V11	PEB22504HT-V11IN-ND	Quad Line Interface Unit for E1/T1/J1 QuadLIU™	P-TQFP-100-3	41.30	39.30	31.48
PEF3452H-V13	PEF3452H-V13IN-ND	Line Interface Unit for DS3, STS1 and E3 TE3-LIU™	P-MQFP-44-2	40.08	38.20	30.54
PEF22810T-V21TR	PEF22810T-V21INCT-ND	Standard, Very High Bit-Rate, DSL Chipset, Line Driver	P-DSO-8	2.52	2.25	1.58
PEF22810T-V21TR	PEF22810T-V21INTR-ND	Standard, Very High Bit-Rate, DSL Chipset, Line Driver	P-DSO-8	3742.50/2,500		
PMB2201R-V12TR	PMB2201RV12TRINCT-ND	2.5GHz Mixer DC and 0.8-1.5GHz Vector Modulator	P-TSSOP-24	4.80	4.40	3.92
PMB2201R-V12TR	PMB2201RV12TRINTR-ND	2.5GHz Mixer DC and 0.8-1.5GHz Vector Modulator	P-TSSOP-24	8313.00/3,000		
PMB2313T-V15TR	PMB2313TV15TRINCT-ND	1.1GHz Prescaler Circuit	P-DSO-8	2.55	2.34	2.09
PMB2313T-V15TR	PMB2313TV15TRINTR-ND	1.1GHz Prescaler Circuit	P-DSO-8	3680.00/2,500		
PMB2314T-V15TR	PMB2314TV15TRINCT-ND	2.1GHz Prescaler Circuit	P-DSO-8	2.55	2.34	2.09
PMB2314T-V15TR	PMB2314TV15TRINTR-ND	2.1GHz Prescaler Circuit	P-DSO-8	3680.00/2,500		
PMB2335R-V11TR	PMB2335RV11TRINCT-ND	Gen. Purpose Up/Down Conversion Gilbert Cell Mixer	P-TSSOP-10-1	2.70	2.48	2.21
PMB2335R-V11TR	PMB2335RV11TRINTR-ND	Gen. Purpose Up/Down Conversion Gilbert Cell Mixer	P-TSSOP-10-1	7795.00/5,000		
PSB2186N-V11TR	PSB2186N-V11INCT-ND	ISDN Subscriber Access Controller for Terminals (ISAC®-S TE)	P-LCC-44	15.79	14.10	9.87
PSB2186N-V11TR	PSB2186N-V11INTR-ND	ISDN Subscriber Access Controller for Terminals (ISAC®-S TE)	P-LCC-44	3761.00/500		
PXB4220E-V32	PXB4220E-V32IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	110.78	105.61	84.40
PXB4220E-V33	PXB4220E-V33IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	110.78	105.61	84.40
SAB82525H-V21	SAB82525H-V21IN-ND	2-Channel High Level Serial Comm. Controller Extended (HSCX)	P-MQFP-44-2	15.40	14.70	11.74
SAB82525N-V21TR	SAB82525N-V21INCT-ND	2-Channel High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1	24.64	22.00	15.40

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INTEGRATED CIRCUITS *(Continued)*

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
SAB82525N-V21TR	SAB82525N-V21INTR-ND	2-Channel High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1	7350.00/500		
SAB82526N-V21	SAB82526N-V21IN-ND	1-Channel High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1	10.85	10.30	8.28
SAB82532H10V32A	SAB82532H10V32AIN-ND	2-Channel Enhanced Serial Comm. Controller ESCC2	P-MQFP-80-1	18.38	17.50	14.00
SAE800	SAE800IN-ND	Programmable Single/Dual/Triple Tone Gong	P-DIP-8-4	4.40	2.91	2.67
SAF82525N-V21	SAF82525N-V21IN-ND	2-Channel High Level Serial Comm. Controller Extended	P-LCC-44-1	16.28	15.50	12.40
SAF82532N10V32A	SAF82532N10V32AIN-ND	2-Channel Enhanced Serial Communication Controller ESCC2	P-LCC-68	19.25	18.40	14.67
SLB0587	SLB0587IN-ND	Dimmer IC for Halogen Lamps	P-DIP-8	3.25	2.15	1.97
TCA505BGGEG	TCA505BGGEGINCT-ND	IC for Inductive Proximity Switches with Short Circuit Protection	P-DSO-16-1	4.99	3.73	3.26
TCA505BGGEG	TCA505BGGEGINTR-ND	IC for Inductive Proximity Switches with Short Circuit Protection	P-DSO-16-1	6042.50/2,500		
TCA785	TCA785IN-ND	LSL Compatible Phase Control IC	P-DIP-16-1	5.58	5.08	3.39
TDA5100	TDA5100INCT-ND	868-870MHz ASK/FSK Transmitter	P-TSSOP-16	2.34	2.15	1.92
TDA5100	TDA5100INTR-ND	868-870MHz ASK/FSK Transmitter	P-TSSOP-16	5850.00/3,000		
TDA5101	TDA5101INCT-ND	311-317MHz ASK/FSK Transmitter	P-TSSOP-16	2.34	2.15	1.92
TDA5101	TDA5101INTR-ND	311-317MHz ASK/FSK Transmitter	P-TSSOP-16	5850.00/3,000		
TDA5103A	TDA5103AINCT-ND	344-347MHz Single ASK Transmitter	P-TSSOP-10	2.25	2.07	1.84
TDA5103A	TDA5103AINTR-ND	344-347MHz Single ASK Transmitter	P-TSSOP-10	9400.00/5,000		
TDA5200	TDA5200INCT-ND	868-870MHz and 433-435MHz Low Power ASK Receiver	P-TSSOP-28-1	4.08	3.74	3.34
TDA5200	TDA5200INTR-ND	868-870MHz and 433-435MHz Low Power ASK Receiver	P-TSSOP-28-1	10200.00/3,000		
TDA5201	TDA5201INCT-ND	310 and 345MHz Low Power ASK Single Receiver	P-TSSOP-28-1	4.08	3.74	3.34
TDA5201	TDA5201INTR-ND	310 and 345MHz Low Power ASK Single Receiver	P-TSSOP-28-1	10200.00/3,000		
TDA5210	TDA5210INCT-ND	810-870MHz and 400-440MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	4.14	3.80	3.39
TDA5210	TDA5210INTR-ND	810-870MHz and 400-440MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	10320.00/3,000		
TDA5211	TDA5211INCT-ND	310-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	4.14	3.80	3.39
TDA5211	TDA5211INTR-ND	310-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	10320.00/3,000		
TDA5212	TDA5212INCT-ND	910-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	4.14	3.80	3.39
TDA5212	TDA5212INTR-ND	910-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	10320.00/3,000		

COUNTERS/ TIMERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z84C3006FEC	269-3036-ND	6MHz, Z80 CMOS Counter/Timer Circuit	44-QFP	5.10	3.83	2.62
Z84C3006PEC	269-3037-ND	6MHz, Z80 CMOS Counter/Timer Circuit	28-Dip	5.10	3.83	2.62
Z84C3008PEC	269-3039-ND	8MHz, Z80 CMOS Counter/Timer Circuit	28-Dip	5.10	3.83	2.62
Z84C3008VEC	269-3040-ND	8MHz, Z80 CMOS Counter/Timer Circuit	44-PLCC	5.10	3.83	2.62
Z84C3010FEC	269-3041-ND	10MHz, Z80 CMOS Counter/Timer Circuit	44-QFP	5.10	3.83	2.62
Z84C3010PEC	269-3042-ND	10MHz, Z80 CMOS Counter/Timer Circuit	28-Dip	5.10	3.83	2.62
Z84C3010VEC	269-3043-ND	10MHz, Z80 CMOS Counter/Timer Circuit	44-PLCC	5.10	3.83	2.62

MICROPROCESSORS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z8018006FSC	269-3004-ND	6MHz, Z180 CMOS Enhanced Microprocessor	80-QFP	10.14	7.61	5.27
Z8018006PEC	269-3005-ND	6MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	11.43	8.58	5.77
Z8018006PSC	269-3006-ND	6MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	9.60	7.20	4.85
Z8018006VEC	269-3007-ND	6MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	11.43	8.58	5.77
Z8018006VSC	269-3008-ND	6MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	9.60	7.20	5.06
Z8018008FSC	269-3009-ND	8MHz, Z180 CMOS Enhanced Microprocessor	80-QFP	10.74	8.06	6.17
Z8018008PEC	269-3010-ND	8MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	12.12	9.09	6.30
Z8018008PSC	269-3011-ND	8MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	9.99	7.50	5.74
Z8018008VEC	269-3012-ND	8MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	13.83	10.38	6.98
Z8018008VSC	269-3013-ND	8MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	9.99	7.50	5.74
Z8018010FSC	269-3014-ND	10MHz, Z180 CMOS Enhanced Microprocessor	80-QFP	12.12	9.09	6.39
Z8018010PEC	269-3015-ND	10MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	14.19	10.65	7.17
Z8018010PSC	269-3016-ND	10MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	11.67	8.76	6.07
Z8018010VEC	269-3017-ND	10MHz, Z180 CMOS Microprocessor	68-PLCC	14.19	10.65	7.17
Z8018010VSC	269-3018-ND	10MHz, Z180 CMOS Microprocessor	68-PLCC	11.67	8.76	6.15
Z84C0006FEC	269-3019-ND	6MHz, Z80 CMOS Microprocessor	44-QFP	5.10	3.83	2.62
Z84C0006PEC	269-3020-ND	6MHz, Z80 CMOS Microprocessor	40-Dip	5.10	3.83	2.62
Z84C0006VEC	269-3021-ND	6MHz, Z80 CMOS Microprocessor	44-PLCC	5.10	3.83	2.62
Z84C0008FEC	269-3022-ND	8MHz, Z80 CMOS Microprocessor	44-QFP	5.10	3.83	2.62
Z84C0008PEC	269-3023-ND	8MHz, Z80 CMOS Microprocessor	40-Dip	5.10	3.83	2.62
Z84C0008VEC	269-3024-ND	8MHz, Z80 CMOS Microprocessor	44-PLCC	5.10	3.83	2.62
Z84C0010FEC	269-3025-ND	10MHz, Z80 CMOS Microprocessor	44-QFP	5.10	3.83	2.62
Z84C0010PEC	269-3026-ND	10MHz, Z80 CMOS Microprocessor	40-Dip	5.10	3.83	2.62
Z84C0010VEC	269-3027-ND	10MHz, Z80 CMOS Microprocessor	44-PLCC	5.10	3.83	2.62
Z84C0020FEC	269-3028-ND	20MHz, Z80 CMOS Microprocessor	40-QFP	12.63	9.48	6.48
Z84C0020PEC	269-3029-ND	20MHz, Z80 CMOS Microprocessor	40-Dip	12.63	9.48	6.48
Z84C0020VEC	269-3030-ND	20MHz, Z80 CMOS Microprocessor	44-PLCC	12.63	9.48	6.48
Z8S18010FSC	269-3098-ND	10MHz, Static Z180 Microprocessor	80-QFP	10.14	7.61	6.45
Z8S18010PSC	269-3100-ND	10MHz, Static Z180 Microprocessor	64-Dip	9.60	7.20	6.11
Z8S18010VSC	269-3102-ND	10MHz, Static Z180 Microprocessor	68-PLCC	9.60	7.20	6.11
Z8S18020FEC	269-3103-ND	20MHz, Static Z180 Microprocessor, X-Temp.	80-QFP	16.17	12.13	8.29
Z8S18020FEC1960	269-3104-ND	20MHz, Static Z180 Microprocessor, X-Temp.	80-QFP	16.17	12.13	8.29
Z8S18020FSC	269-3105-ND	20MHz, Static Z180 Microprocessor	80-QFP	13.35	10.02	7.27
Z8S18020PSC	269-3107-ND	20MHz, Static Z180 Microprocessor	64-Dip	13.35	10.02	6.85
Z8S18020PSC1960	269-3108-ND	20MHz, Static Z180 Microprocessor	64-Dip	13.35	10.02	6.85
Z8S18020VEC	269-3109-ND	20MHz, Static Z180 Microprocessor, X-Temp.	68-PLCC	16.17	12.13	8.29
Z8S18020VEC1960	269-3110-ND	20MHz, Static Z180 Microprocessor, X-Temp.	68-PLCC	16.17	12.13	8.29
Z8S18020VSC	269-3111-ND	20MHz, Static Z180 Microprocessor	68-PLCC	13.35	10.02	7.27
Z8S18020VSC1960	269-3112-ND	20MHz, Static Z180 Microprocessor	68-PLCC	13.35	10.02	7.27
Z8S18033VEC	269-3115-ND	33MHz, Static Z180 Microprocessor, X-Temp.	68-PLCC	17.73	13.30	10.09
Z8S18033VSC	269-3116-ND	33MHz, Static Z180 Microprocessor	68-PLCC	14.73	11.05	7.55

PERIPHERAL CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z84C1506FEC	269-3031-ND	6MHz, Z80 Intelligent Peripheral Controller	100-QFP	15.36	11.52	7.88
Z84C1510AEC	269-3032-ND	10MHz, Z80 Intelligent Peripheral Controller	100-VQFP	15.36	11.52	7.88
Z84C1510FEC	269-3033-ND	10MHz, Z80 Intelligent Peripheral Controller	100-QFP	15.36	11.52	7.88
Z84C1516ASC	269-3034-ND	16MHz, Z80 Intelligent Peripheral Controller	100-VQFP	20.37	15.28	10.45
Z84C1516FSC	269-3035-ND	16MHz, Z80 Intelligent Peripheral Controller	100-QFP	19.98	14.99	10.25

SERIAL COMMUNICATION CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z8523008PEC	269-3044-ND	8MHz, Enhanced Serial Communication Controller, Ext. Temp	40-Dip	24.57	18.43	11.54
Z8523008PSC	269-3045-ND	8MHz, Enhanced Serial Communication Controller	40-Dip	14.97	11.23	7.38
Z8523008VEC	269-3046-ND	8MHz, Enhanced Serial Communication Controller, Ext. Temp	44-PLCC	21.60	16.20	10.64
Z8523008VSC	269-3047-ND	8MHz, Enhanced Serial Communication Controller	44-PLCC	14.97	11.23	7.38
Z8523010PEC	269-3048-ND	10MHz, Enhanced Serial Communication Controller XTemp	40-Dip	30.66	23.00	15.11
Z8523010PSC	269-3049-ND	10MHz, Enhanced Serial Communication Controller	40-Dip	18.90	14.18	9.31
Z8523010VEC	269-3050-ND	10MHz, Enhanced Serial Communication Controller XTemp	44-PLCC	30.66	23.00	15.11
Z8523010VSC	269-3051-ND	10MHz, Enhanced Serial Communication Controller	44-PLCC	18.90	14.18	9.31
Z8523016PEC	269-3052-ND	16MHz, Enhanced Serial Communication Controller XTemp	40-Dip	37.80	28.35	18.62
Z8523016PSC	269-3053-ND	16MHz, Enhanced Serial Communication Controller	40-Dip	24.24	18.18	11.94
Z8523016VEC	269-3054-ND	16MHz, Enhanced Serial Communication Controller XTemp	44-PLCC	37.80	28.35	18.62
Z8523016VSC	269-3055-ND	16MHz, Enhanced Serial Communication Controller	44-PLCC	24.24	18.18	11.94
Z8523020VSC	269-3057-ND	20MHz, Enhanced Serial Communication Controller	44-PLCC	32.01	24.01	15.77
Z85C3008PEC	269-3058-ND	8MHz, Z8500 CMOS Serial Communication Controller	40-Dip	12.81	9.61	5.94
Z85C3008PSC	269-3059-ND	8MHz, Z8500 CMOS Serial Communication Controller	40-Dip	8.55	6.42	4.02
Z85C3008VEC	269-3060-ND	8MHz, Z8500 CMOS Serial Communication Controller	44-PLCC	12.81	9.61	5.94
Z85C3008VSC	269-3061-ND	8MHz, Z8500 CMOS Serial Communication Controller	44-PLCC	8.55	6.42	4.02
Z85C3010PEC	269-3062-ND	10MHz, Z8500 CMOS Serial Communication Controller	40-Dip	14.55	10.92	6.73
Z85C3010PSC	269-3063-ND	10MHz, Z8500 CMOS Serial Communication Controller	40-Dip	9.75	7.32	4.56
Z85C3010VEC	269-3064-ND	10MHz, Z8500 CMOS Serial Communication Controller	44-PLCC	14.55	10.92	6.73
Z85C3010VSC	269-3065-ND	10MHz, Z8500 CMOS Serial Communication Controller	44-PLCC	9.75	7.32	4.56
Z85C3016PSC	269-3066-ND	16MHz, Z8500 CMOS Serial Communication Controller	40-Dip	14.25	10.69	6.70
Z85C3016VSC	269-3067-ND	16MHz, Z8500 CMOS Serial Communication Controller	44-PLCC	14.25	10.69	6.70

AMPLIFIERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
3584JM	3584JM-ND	High-Voltage Op Amplifier	TO-3-8	141.89	132.43	122.97
BUF634F	BUF634F-ND	High-Speed Buffer, 250mA Output	5-DDPAK	7.26	5.81	4.91
BUF634P	BUF634P-ND	High-Speed Buffer, 250mA Output	8-Dip	6.14	4.92	3.83
BUF634T	BUF634T-ND	High-Speed Buffer, 250mA Output	T0-220-5	7.26	5.81	4.91
BUF634U	BUF634U-ND	High-Speed Buffer, 250mA Output	8-SOIC	5.46	4.37	3.69
BUF04701AIDGSR	296-12161-1-ND	4-Channel R/R In/Out CMOS Buffer Amp	10-MSOP	2.79	2.24	1.74
BUF04701AIDGSR	296-12161-2-ND	4-Channel R/R In/Out CMOS Buffer Amp	10-MSOP	3905.00/2,500		
BUF04701AIPWR	296-12162-1-ND	4-Channel R/R In/Out CMOS Buffer Amp	14-TSSOP	2.79	2.24	1.74
BUF04701AIPWR	296-12162-2-ND	4-Channel R/R In/Out CMOS Buffer Amp	14-TSSOP	3905.00/2,500		
BUF11702PWP	BUF11702PWP-ND	10+1 Channel High Current Buffer	28-HTSSOP	3.29	2.63	2.05
INA101AG	INA101AG-ND	Very High Accuracy Instr. Amp	14-Dip	23.24	21.69	20.14
INA101AM	INA101AM-ND	Very High Accuracy Instr. Amp	TO-100-10	16.04	14.45	12.81

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
INA101CM	INA101CM-ND	Very High Accuracy Instr. Amp	TO-100-10	30.45	28.42	26.39
INA101HP	INA101HP-ND	Very High Accuracy Instr. Amp	14-Dip	11.88	10.70	9.49
INA101KU	INA101KU-ND	Very High Accuracy Instr. Amp	16-SOIC	11.91	10.73	9.51
INA101SM	INA101SM-ND	Very High Accuracy Instr. Amp	TO-100-10	35.16	32.82	30.48
INA103KP	INA103KP-ND	Low Noise, Low Distortion Instr. Amp	16-Dip	8.84	7.08	5.97
INA103KU	INA103KU-ND	Low Noise, Low Distortion Instr. Amp	16-SOIC	8.84	7.08	5.97
INA105BM	INA105BM-ND	Precision Unity Gain Diff. Amp	TO-99	12.51	11.27	9.99
INA105KP	INA105KP-ND	Precision Unity Gain Diff. Amp	8-Dip	5.04	4.04	3.41
INA105KU	INA105KU-ND	Precision Unity Gain Diff. Amp	8-SOIC	5.04	4.04	3.41
INA106KP	INA106KP-ND	Precision Fixed-Gain Differential Amp	8-Dip	8.98	7.19	6.07
INA106U	INA106U-ND	Precision Fixed-Gain Differential Amp	8-SOIC	8.98	7.19	6.07
INA110KP	INA110KP-ND	Fast-Settling, FET-Input Instr. Amp	16-Dip	10.56	9.51	8.44
INA110KU	INA110KU-ND	Fast-Settling, FET-Input Instr. Amp	16-SOIC	10.56	9.51	8.44
INA111AP	INA111AP-ND	High Speed FET-Input Instr. Amp	8-Dip	7.52	6.02	5.08
INA111AU	INA111AU-ND	High Speed FET-Input Instr. Amp	16-SOIC	7.52	6.02	5.08
INA111BP	INA111BP-ND	High Speed FET-Input Instr. Amp	8-Dip	10.06	9.06	8.04
INA111BU	INA111BU-ND	High Speed FET-Input Instr. Amp	16-SOIC	10.06	9.06	8.04
INA114AP	INA114AP-ND	Precision Instrumentation Amp	8-Dip	6.82	5.46	4.61
INA114AU	INA114AU-ND	Precision Instrumentation Amp	16-SOIC	7.52	6.02	5.08
INA114BP	INA114BP-ND	Precision Instrumentation Amp	8-Dip	10.28	8.23	6.94
INA114BU	INA114BU-ND	Precision Instrumentation Amp	16-SOIC	8.56	7.71	6.84
INA115AU	INA115AU-ND	Precision Instrumentation Amp	16-SOIC	7.60	6.08	5.13
INA115BU	INA115BU-ND	Precision Instrumentation Amp	16-SOIC	9.30	8.37	7.43
INA116PA	INA116PA-ND	Ultra Low In Bias Current Instr. Amp	16-Dip	7.60	6.08	5.13
INA116UA	INA116UA-ND	Ultra Low In Bias Current Instr. Amp	16-SOIC	7.60	6.08	5.13
INA117KU	INA117KU-ND	High Common-Mode Volt., Diff. Amp	8-SOIC	5.24	4.20	3.27
INA117P	INA117P-ND	High Common-Mode Volt., Diff. Amp	8-Dip	5.24	4.20	3.27
INA118P	INA118P-ND	Precision Low Power Instr. Amp	8-Dip	7.16	5.73	4.84
INA118PB	INA118PB-ND	Precision Low Power Instr. Amp	8-Dip	11.14	8.92	7.52
INA118U	INA118U-ND	Precision Low Power Instr. Amp	8-SOIC	7.16	5.73	4.84
INA118UB	INA118UB-ND	Precision Low Power Instr. Amp	8-SOIC	9.28	8.36	7.41
INA121P	INA121P-ND	Low Power FET Instrumentation Amp	8-Dip	6.34	5.08	4.28
INA121PA	INA121PA-ND	Low Power FET Instrumentation Amp	8-Dip	5.09	4.07	3.17
INA121U	INA121U-ND	Low Power FET Instrumentation Amp	8-SOIC	6.34	5.08	4.28
INA121UA	INA121UA-ND	Low Power FET Instrumentation Amp	8-SOIC	5.09	4.07	3.17
INA121UA/2K5	INA121UATR-ND	Low Power FET Instrumentation Amp	8-SOIC	7182.50/2,500		
INA121U/2K5	INA121UTR-ND	Low Power FET Instrumentation Amp	8-SOIC	9890.00/2,500		
INA122P	INA122P-ND	Single Supply, Micropower Instr. Amp	8-Dip	5.51	4.41	3.43
INA122PA	INA122PA-ND	Single Supply, Micropower Instr. Amp	8-Dip	4.21	3.37	2.62
INA122U	INA122U-ND	Single Supply, Micropower Instr. Amp	8-SOIC	5.51	4.41	3.43
INA122UA	INA122UA-ND	Single Supply, Micropower Instr. Amp	8-SOIC	4.21	3.37	2.62
INA125P	INA125P-ND	Instr. Amp w/Precision Voltage Ref	16-Dip	5.15	4.13	3.21
INA125PA	INA125PA-ND	Instr. Amp w/Precision Voltage Ref	16-Dip	4.07	3.26	2.54
INA125U	INA125U-ND	Instr. Amp w/Precision Voltage Ref	16-SOIC	5.15	4.13	3.21
INA125UA	INA125UA-ND	Instr. Amp w/Precision Voltage Ref	16-SOIC	4.07	3.26	2.54
INA126ECT	INA126ECT-ND	Micropower Instrumentation Amp	8-MSOP	3.08	2.47	1.92
INA126E/250	INA126ETR-ND	Micropower Instrumentation Amp	8-MSOP	615.25/250		
INA126EA/250	INA126EACT-ND	Micropower Instrumentation Amp	8-MSOP	2.41	1.93	1.50
INA126EA/250	INA126EATR-ND	Micropower Instrumentation Amp	8-MSOP	485.50/250		
INA126P	INA126P-ND	Micropower Instrumentation Amp	8-Dip	2.79	2.24	1.74
INA126PA	INA126PA-ND	Micropower Instrumentation Amp	8-Dip	2.38	1.90	1.43
INA126U	INA126U-ND	Micropower Instrumentation Amp	8-SOIC	2.79	2.24	1.74
INA126UA	INA126UA-ND	Micropower Instrumentation Amp	8-SOIC	2.38	1.90	1.43
INA128P	INA128P-ND	Precision Low Power Instr. Amp	8-Dip	8.12	6.50	5.49
INA128PA	INA128PA-ND	Precision Low Power Instr. Amp	8-Dip	5.04	4.04	3.41
INA128U	INA128U-ND	Precision Low Power Instr. Amp	8-SOIC	8.12	6.50	5.49
INA128UA	INA128UA-ND	Precision Low Power Instr. Amp	8-SOIC	5.04	4.04	3.41
INA129P	INA129P-ND	Precision Low Power Instr. Amp	8-Dip	8.12	6.50	5.49
INA129PA	INA129PA-ND	Precision Low Power Instr. Amp	8-Dip	5.04	4.04	3.41
INA129U	INA129U-ND	Precision Low Power Instr. Amp	8-SOIC	8.12	6.50	5.49
INA129UA	INA129UA-ND	Precision Low Power Instr. Amp	8-SOIC	5.04	4.04	3.41
INA131AP	INA131AP-ND	Precision, Gain=100, Instr. Amp	8-Dip	6.82	5.46	4.61
INA131BP	INA131BP-ND	Precision, Gain=100, Instr. Amp	8-Dip	8.56	7.71	6.84
INA132U	INA132U-ND	Low Power, Single-Supply Instr. Amp	8-SOIC	2.79	2.24	1.74
INA132UA	INA132UA-ND	Low Power, Single-Supply Instr. Amp	8-SOIC	2.38	1.90	1.43
INA133UA	INA133UA-ND	High Speed Precision Difference Amp	8-SOIC	2.38	1.90	1.43
INA133U	INA133U-ND	High Speed Precision Difference Amp	8-SOIC	2.79	2.24	1.74
INA134PA	INA134PA-ND	Audio Differential Line Receiver	8-Dip	2.38	1.90	1.43
INA134UA	INA134UA-ND	Audio Differential Line Receiver	8-SOIC	2.38	1.90	1.43
INA137PA	INA137PA-ND	Audio Differential Line Receiver	8-Dip	2.38	1.90	1.43
INA137UA	INA137UA-ND	Audio Differential Line Receiver	8-SOIC	2.38	1.90	1.43
INA138NA/250	INA138NACT-ND	Current Shunt Monitor	SOT-23-5	2.35	1.88	1.41
INA138NA/250	INA138NATR-ND	Current Shunt Monitor	SOT-23-5	329.00/250		
INA139NA/250	INA139NA/250CT-ND	2.7-40V Current Shunt Monitor	SOT-23-5	2.35	1.88	1.41
INA139NA/250	INA139NA/250TR-ND	2.7-40V Current Shunt Monitor	SOT-23-5	329.00/250		
INA141U	INA141U-ND	Precision Low Power, Gain=10,100 Instrumentation Amp	8-SOIC	8.56	7.71	6.84
INA141UA	INA141UA-ND	Precision Low Power, Gain=10,100 Instrumentation Amp	8-SOIC	6.36	5.09	4.30
INA143U	INA143U-ND	High Speed Diff. Gain=10 Instr. Amp	8-SOIC	2.79	2.24	1.74
INA143UA	INA143UA-ND	High Speed Diff. Gain=10 Instr. Amp	8-SOIC	2.38	1.90	1.43
INA145UA	INA145UA-ND	Programmable Difference Amp	8-SOIC	2.99	2.40	1.87
INA146UA	INA146UA-ND	High-Voltage Differential Amp	8-SOIC	3.47	2.78	2.16
INA148UA	INA148UA-ND	Common-Mode Instrumentation Amp	8-SOIC	4.21	3.37	2.62
INA152EA/2K5	INA152EA/2K5CT-ND	Low Power, Single Supply Diff. Amp	8-MSOP	2.39	1.91	1.49
INA152EA/2K5	INA152EA/2K5TR-ND	Low Power, Single Supply Diff. Amp	8-MSOP	3445.00/2,500		
INA154U	INA154U-ND	High-Speed Precision G=1 Diff. Amp	8-SOIC	2.79	2.24	1.74
INA154UA	INA154UA-ND	High-Speed Precision G=1 Diff. Amp	8-SOIC	2.38	1.90	1.43
INA155EA/250	INA155EACT-ND	R/R CMOS Instrumentation Amp	8-MSOP	2.34	1.88	2.34
INA155EA/250	INA155EATR-ND	R/R CMOS Instrumentation Amp	8-MSOP	345.75/250		
INA155E/250	INA155ECT-ND	R/R CMOS Instrumentation Amp	8-MSOP	3.04	2.70	3.04
INA155E/250	INA155ETR-ND	R/R CMOS Instrumentation Amp	8-MSOP	458.75/250		
INA155U	INA155U-ND	R/R CMOS Instrumentation Amp	8-SOIC	2.93	2.34	1.82
INA155UA	INA155UA-ND	R/R CMOS Instrumentation Amp	8-SOIC	2.40	1.92	1.44
INA156EA/250	INA156EACT-ND	CMOS Instrumentation Amp	8-MSOP	2.25	1.80	1.35
INA156EA/250	INA156EATR-ND	CMOS Instrumentation Amp	8-MSOP	315.00/250		
INA157U	INA157U-ND	HS Precision G=1/2 or G=2 Diff. Amp	8-SOIC	2.79	2.24	1.74
INA157UA	INA157UA-ND	HS Precision G=1/2 or G=2 Diff. Amp	8-SOIC	2.38	1.90	1.43
INA163UA	INA163UA-ND	Low-Noise, Low Distort. Instr. Amp	SO-14-50	5.02	4.02	3.13
INA163UA/2K5	INA163UATR-ND	Low-Noise, Low Distort. Instr. Amp	SO-14-50	7087.50/2,500		
INA166UA	INA166UA-ND	Low-Noise Instrumentation Amp	14-SOIC	10.76	8.61	7.27
INA166UA/2K5	INA166UATR-ND	Low-Noise Instrumentation Amp	14-SOIC	16740.00/2,500		
INA168NA/250	INA168NACT-ND	High-Side Current Shunt Monitor	SOT-23-5	2.59	2.07	1.61
INA168NA/250	INA168NATR-ND	High-Side Current Shunt Monitor	SOT-23-5	382.50/250		
INA169NA/250	INA169NA/250CT-ND	2.7-60V Current Shunt Monitor	SOT-23-5	2.59	2.07	1.61
INA169NA/250	INA169NA/250TR-ND	2.7-60V Current Shunt Monitor	SOT-23-5	382.50/250		
INA170EA/2K5	INA170EA/2K5CT-ND	Bi-Directional Current Shunt Monitor	8-MSOP	2.54	2.04	1.59
INA170EA/2K5	INA170EA/2K5TR-ND	Bi-Directional Current Shunt Monitor	8-MSOP	3560.00/2,500		
INA217AIDWT	296-13645-1-ND	Low Noise, Low Distortion Instrumentation Amplifier	16-SOIC	5.02	4.02	3.13
INA217AIDWT	296-13645-2-ND	Low Noise, Low Distortion Instrumentation Amplifier	16-SOIC	741.50/250		
INA217AIP	296-13452-5-ND	Low Noise, Low Distortion Instrumentation Amplifier	8-Dip	5.02	4.02	3.13
INA321EA/250	INA321EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.34	1.88	1.46
INA321EA/250	INA321EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	345.75/250		
INA321E/250	INA321ECT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.11	2.49	1.94
INA321E/250	INA321ETR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	458.75/250		
INA321E/2K5	296-14586-1-ND	Micropower CMOS R/R Instr. Amp *NEW!*	8-MSOP	3.04	2.43	1.89
INA321E/2K5	296-14586-2-ND	Micropower CMOS R/R Instr. Amp *NEW!*	8-MSOP	4252.50/2,500		
INA322EA/250	INA322EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.23	1.78	1.34
INA322EA/250	INA322EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	311.50/250		
INA326EA/2K5	INA326EA/2K5CT-ND	Prec., R/R I/O Instr. Amp	8-MSOP	3.65	2.92	2.27
INA326EA/2K5	INA326EA/2K5TR-ND	Prec., R/R I/O Instr. Amp	8-MSOP	5102.50/2,500		
INA327EA/2K5	INA327EA/2K5CT-ND	Prec., R/R I/O Instr. Amp with Shutdown	10-MSOP	3.96	3.17	2.47
INA327EA/2K5	INA327EA/2K5TR-ND	Prec., R/R I/O Instr. Amp with Shutdown	10-MSOP	5545.00/2,500		
INA330AIDGST	296-13861-1-ND	Thermistor Signal Amp for Temp. Control *NEW!*	10-MSOP	3.11	2.49	1.94
INA330AIDGST	296-13861-2-ND	Thermistor Signal Amp for Temp. Control *NEW!*	10-MSOP	458.75/250		
INA331AIDGKT	296-12202-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.25	1.80	1.40
INA331AIDGKT	296-12202-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	332.50/250		
INA331IDGKT	296-12203-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.99	2.40	1.87
INA331IDGKT	296-12203-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	442.25/250		
INA332AIDGKT	296-12204-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	1.90	1.52	1.14
INA332AIDGKT	296-12204-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	266.00/250		
INA337AIDGKT	296-13453-1-ND	Wide Temperature, Precision Instrumentation Amplifier	8-MSOP	3.65	2.92	2.27
INA337AIDGKT	296-13453-2-ND	Wide Temperature, Precision Instrumentation Amplifier	8-MSOP	538.75/250		
INA338AIDGST	296-13454-1-ND	Wide Temperature, Precision Instr. Amp. with Shutdown	10-MSOP	3.96	3.17	2.47
INA338AIDGST	296-13454-2-ND	Wide Temperature, Precision Instr. Amp. with Shutdown	10-MSOP	585.25/250		
INA2126EA/250	INA2126EACT-ND	Dual, Micropower Instr. Amp	16-SSOP	3.80	3.05	2.37
INA2126EA/250	INA2126EATR-ND	Dual, Micropower Instr. Amp	16-SSOP	562.00/250		
INA2126E/250	INA2126ECT-ND	Dual, Micropower Instr. Amp	16-SSOP	4.86	3.89	3.03
INA2126E/250	INA2126ETR-ND	Dual, Micropower Instr. Amp	16-SSOP	718.25/250		
INA2126P	INA2126P-ND	Dual, Micropower Instr. Amp	16-Dip	4.50	3.60	2.80
INA2126PA	INA2126PA-ND	Dual, Micropower Instr. Amp	16-Dip	3.42	2.74	2.13
INA2126U	INA2126U-ND	Dual, Micropower Instr. Amp	16-SOIC	4.50	3.60	2.80
INA2126UA	INA2126UA-ND	Dual, Micropower Instr. Amp	16-SOIC	3.42	2.74	2.13
INA2128UA	INA2128UA-ND	Dual, Low Power Instr. Amp	16-SOIC	8.06	6.45	5.45
INA2132U	INA2132U-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	4.77	3.82	2.97
INA2132UA	INA2132UA-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	3.65	2.92	2.27
INA2133U	INA2133U-ND	Dual, High-Speed, Diff. Amp	14-SOIC	4.77	3.82	2.97
INA2133UA	INA2133UA-ND	Dual, High-Speed, Diff. Amp	14-SOIC	3.65	2.92	2.27
INA2134PA	INA2134PA-ND	Dual, Audio Differential Line Receiver	14-Dip	3.42	2.74	2.13
INA2134UA	INA2134UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	3.42	2.74	2.13
INA2137PA	INA2137PA-ND	Dual, Audio Differential Line Receiver	14-Dip	3.42	2.74	2.13
INA2137UA	INA2137UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	3.42	2.74	2.13
INA2141U	INA2141U-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	13.71	12.35	10.95
INA2141UA	INA2141UA-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	8.48	7.64	6.77
INA2143U	INA2143U-ND	Dual, High Speed Precision Gain=10 Difference Amp	14-SOIC	4.50	3.60	2.80
INA2143UA	INA2143UA-ND	Dual, High Speed Precision Gain=10 Difference Amp	14-SOIC	3.42	2.74	2.13
INA2321EA/250	INA2321EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	3.65	2.92	2.27
INA2321EA/250	INA2321EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	538.75/250		
INA2322EA/250	INA2322EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	3.15	2.52	1.96
INA2322EA/250	INA2322EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	465.50/250		
INA2331AIPWR	INA2331AIPWRCT-ND	LP R/R CMOS Instr. Amp	14-TSSOP	3.60	2.88	2.24
INA2331AIPWR	INA2331AIPWRTR-ND	LP R/R CMOS Instr. Amp	14-TSSOP	5040.00/2,500		
INA2332AIPWR	INA2332AIPWRCT-ND	LP R/R CMOS Instr. Amp	14-TSSOP	2.75	2.20	1.71
INA2332AIPWR	INA2332AIPWRTR-ND	LP R/R CMOS Instr. Amp	14-TSSOP	3842.50/2,500		
ISO100AP	ISO100AP-ND	Low Leakage Isolation Amp	18-Dip	83.10	77.56	72.02
ISO121BG	296-12577-5-ND	2500 VRMS Precision Isolation Amp	40-Dip	60.00	56.00	52.00
ISO122JP	ISO122JP-ND	Lowest Cost Precision Isolation Amp	16-Dip	14.16	12.75	11.31
ISO122JU	ISO122JU-ND	Lowest Cost Precision Isolation Amp	28-SOIC	13.48	12.14	10.76
ISO122P	ISO122P-ND	Lowest Cost Precision Isolation Amp	16-Dip	15.89	14.83	13.77
ISO122U	ISO122U-ND	Lowest Cost Precision Isolation Amp	28-SOIC	15.14	14.13	13.12
ISO124P	ISO124P-ND	Low-Cost Precision Isolation Amp	16-Dip	10.33	9.30	8.25
ISO124U	ISO124U-ND	Low-Cost Precision Isolation Amp	28-SOIC	10.33	9.30	8.25
ISO150AU	ISO150AU-ND	Dual, Isolated, Bi-Dir. Digital Coupler	28-SOIC	12.18	10.97	9.73
ISO508P	ISO508P-ND	Uni-Directional Isolated Digital Coupler	24-Dip	12.69	11.43	10.14
LF347BD	296-7136-5-ND	Quad WB JFET Op Amp	14-SOIC	1.75	1.40	1.05
LF347D	296-7137-5-ND	Quad WB JFET Op Amp	14-SOIC	.80	.60	.45
LF347DR	296-7137-1-ND	Quad WB JFET Op Amp	14-SOIC	.80	.60	.45
LF347DR	296-7137-2-ND	Quad WB JFET Op Amp	14-SOIC	650.00/2,500		
LF347N	296-7138-5-ND	Quad WB JFET Op Amp	14-Dip	.80	.60	.45
LF353D	296-1384-5-ND	Dual JFET Op Amp	8-SOIC	.52	.39	.30
LF353DR	296-14587-1-ND	Dual JFET Op Amp *NEW!*	8-SOIC	.52	.39	.30
LF353DR	296-14587-2-ND	Dual JFET Op Amp *NEW!*	8-SOIC	422.50/2,500		
LF353P	296-7139-5-ND	Dual JFET Op Amp	8-Dip	.52	.39	.30
LF411CD	296-12846-5-ND	High Speed JFET Op Amp	8-SOIC	.96	.80	.64
LF412CD	296-7140-5-ND	Dual JFET Op Amp	8-SOIC	.84	.70	.56
LF412CDR	296-14588-1-ND	Dual JFET Op Amp *NEW!*	8-SOIC	.84	.70	.56
LF412CDR	296-14588-2-ND	Dual JFET Op Amp *NEW!*	8-SOIC	910.00/2,500		
LF412CP	296-7141-5-ND	Dual JFET Op Amp	8-Dip	.84	.70	.56
LM224AD	296-7029-5-ND	Quad Op Amp	14-SOIC	.60	.45	.34
LM224ADR	296-7029-1-ND	Quad Op Amp	14-SOIC	.60	.45	.34
LM224ADR	296-7029-2-ND	Quad Op Amp	14-SOIC	487.50/2,500		

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T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
LM224DR	296-12847-1-ND	Quad Op Amp	14-SOIC	.50	.40	.30
LM224DR	296-12847-2-ND	Quad Op Amp	14-SOIC	337.50/2,500		
LM224N	296-7030-5-ND	Quad Op Amp	14-Dip	.50	.40	.30
LM236D-2-5	296-7031-5-ND	2.5V Integrated Reference Circuit	8-SOIC	1.25	1.00	.75
LM237KC	296-7032-5-ND	3-Terminal Adj. Voltage Reg.	TO-220AB	2.70	2.16	1.68
LM248D	296-6622-5-ND	Quad Op Amp *NEW!*	14-SOP	.90	.75	.60
LM248N	296-6623-5-ND	Quad Op Amp *NEW!*	14-Dip	.90	.75	.60
LM258D	296-6624-5-ND	Dual Op Amp	8-SOIC	.45	.36	.27
LM258DR	296-14591-1-ND	Dual Op Amp *NEW!*	8-SOIC	.45	.36	.27
LM258DR	296-14591-2-ND	Dual Op Amp *NEW!*	8-SOIC	305.00/2,500		
LM258P	296-6625-5-ND	Dual Op Amp	8-Dip	.45	.36	.27
LM318D	296-9538-5-ND	Single High Speed Op Amp	8-SOIC	1.20	1.00	.80
LM318P	296-9539-5-ND	Single High Speed Op Amp	8-Dip	1.20	1.00	.80
LM324AD	296-9540-5-ND	Quad General Purpose Op Amp	14-SOIC	.49	.40	.27
LM324ADR	296-9540-1-ND	Quad General Purpose Op Amp	14-SOIC	.49	.40	.27
LM324ADR	296-9540-2-ND	Quad General Purpose Op Amp	14-SOIC	320.00/2,500		
LM324ADBR	296-9541-1-ND	Quad General Purpose Op Amp	14-SSOP	.49	.40	.27
LM324ADBR	296-9541-2-ND	Quad General Purpose Op Amp	14-SSOP	270.00/2,000		
LM324AN	296-9542-5-ND	Quad General Purpose Op Amp	14-Dip	.49	.40	.27
LM324ANSR	296-9543-1-ND	Quad General Purpose Op Amp	14-SOP	.49	.40	.27
LM324ANSR	296-9543-2-ND	Quad General Purpose Op Amp	14-SOP	270.00/2,000		
LM324APWR	296-9544-1-ND	Quad General Purpose Op Amp	14-TSSOP	.49	.40	.27
LM324APWR	296-9544-2-ND	Quad General Purpose Op Amp	14-TSSOP	270.00/2,000		
LM324D	296-1390-5-ND	Quad General Purpose Op Amp	14-SOIC	.42	.35	.24
LM324DR	296-14597-1-ND	Quad General Purpose Op Amp *NEW!*	14-SOIC	.42	.35	.24
LM324DR	296-14597-2-ND	Quad General Purpose Op Amp *NEW!*	14-SOIC	277.50/2,500		
LM324N	296-1391-5-ND	Quad General Purpose Op Amp	14-Dip	.42	.35	.24
LM324PWR	296-9545-1-ND	Quad General Purpose Op Amp	14-TSSOP	.42	.35	.24
LM324PWR	296-9545-2-ND	Quad General Purpose Op Amp	14-TSSOP	234.00/2,000		
LM348D	296-9552-5-ND	Quad General Purpose Op Amp	14-SOIC	.48	.36	.27
LM348DR	296-14600-1-ND	Quad General Purpose Op Amp *NEW!*	14-SOIC	.48	.36	.27
LM348DR	296-14600-2-ND	Quad General Purpose Op Amp *NEW!*	14-SOIC	390.00/2,500		
LM348N	296-12849-5-ND	Quad General Purpose Op Amp	14-Dip	.48	.36	.27
LM358AD	296-9553-5-ND	Dual Op Amp	8-SOIC	.49	.40	.27
LM358ADR	296-14601-1-ND	Dual Op Amp *NEW!*	8-SOIC	.49	.40	.27
LM358ADR	296-14601-2-ND	Dual Op Amp *NEW!*	8-SOIC	320.00/2,500		
LM358AP	296-9554-5-ND	Dual Op Amp	8-Dip	.49	.40	.27
LM358D	296-1014-5-ND	Dual Op Amp	8-SOIC	.42	.35	.24
LM358DR	296-1014-1-ND	Dual Op Amp	8-SOIC	.42	.35	.24
LM358DR	296-1014-2-ND	Dual Op Amp	8-SOIC	277.50/2,500		
LM358P	296-1395-5-ND	Dual Op Amp	8-Dip	.42	.35	.24
LM358PSR	296-1396-1-ND	Dual Op Amp	8-SOP	.42	.35	.24
LM358PSR	296-1396-2-ND	Dual Op Amp	8-SOP	234.00/2,000		
LM358PWR	296-9555-1-ND	Dual Op Amp	8-TSSOP	.42	.35	.24
LM358PWR	296-9555-2-ND	Dual Op Amp	8-TSSOP	234.00/2,000		
LM2900DR	296-9525-1-ND	Quad Op Amp	14-SOIC	.36	.29	.20
LM2900DR	296-9525-2-ND	Quad Op Amp	14-SOIC	235.00/2,500		
LM2900N	296-9526-5-ND	Quad Op Amp	14-Dip	.36	.29	.20
LM2902DR	296-14594-1-ND	Quad Op Amp *NEW!*	14-SOIC	.36	.29	.20
LM2902DR	296-14594-2-ND	Quad Op Amp *NEW!*	14-SOIC	235.00/2,500		
LM2904D	296-9527-5-ND	Dual General Purpose Op Amp	8-SOIC	.36	.29	.20
LM2904DR	296-14596-1-ND	Dual General Purpose Op Amp *NEW!*	8-SOIC	.36	.29	.20
LM2904DR	296-14596-2-ND	Dual General Purpose Op Amp *NEW!*	8-SOIC	235.00/2,500		
LM2904P	296-9528-5-ND	Dual General Purpose Op Amp	8-Dip	.36	.29	.20
LM2904PWR	296-9529-1-ND	Dual General Purpose Op Amp	8-TSSOP	.36	.29	.20
LM2904PWR	296-9529-2-ND	Dual General Purpose Op Amp	8-TSSOP	198.00/2,000		
LM3900D	296-9564-5-ND	Quad Op Amp	14-SOIC	.90	.75	.60
LM3900DR	296-14604-1-ND	Quad Op Amp *NEW!*	14-SOIC	.90	.75	.60
LM3900DR	296-14604-2-ND	Quad Op Amp *NEW!*	14-SOIC	975.00/2,500		
LM3900N	296-9565-5-ND	Quad Op Amp	14-Dip	.90	.75	.60
LMV324ID	296-9569-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.64	.48	.36
LMV324IDR	296-9569-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.64	.48	.36
LMV324IDR	296-9569-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	520.00/2,500		
LMV321IDBVR	296-9567-1-ND	Low Voltage R/R Op Amp	SOT-23-5	.64	.48	.36
LMV321IDBVR	296-9567-2-ND	Low Voltage R/R Op Amp	SOT-23-5	624.00/3,000		
LMV321IDCKR	296-9568-1-ND	Low Voltage R/R Op Amp	SC-70-5	.64	.48	.36
LMV321IDCKR	296-9568-2-ND	Low Voltage R/R Op Amp	SC-70-5	624.00/3,000		
LMV324IPWR	296-9570-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.64	.48	.36
LMV324IPWR	296-9570-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	426.00/2,000		
LMV358IDGKR	296-13455-1-ND	Dual Low Voltage R/R Output Op Amp	8-VSSOP	.72	.54	.41
LMV358IDGKR	296-13455-2-ND	Dual Low Voltage R/R Output Op Amp	8-VSSOP	585.00/2,500		
LMV358IDR	296-9571-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.64	.48	.36
LMV358IDR	296-9571-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	520.00/2,500		
LMV358IPWR	296-9572-1-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	.64	.48	.36
LMV358IPWR	296-9572-2-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	426.00/2,000		
LOG100JP	LOG100JP-ND	Prec. Logarithmic & Log Ratio Amp	14-Dip	118.25	110.37	102.48
LOG101AID	296-12850-5-ND	Prec. Logarithmic & Log Ratio Amp	8-SOIC	22.31	20.82	19.34
LOG102AID	LOG102AID-ND	Prec. Logarithmic & Log Ratio Amp	14-SOIC	26.58	24.81	23.04
LOG104AID	296-12851-5-ND	Prec. Logarithmic & Log Ratio Amp	8-SOIC	22.31	20.82	19.34
LOG112AID	296-13456-5-ND	Precision Logarithmic and Log Ratio Amp w/On Chip 2.5 Volt. Reference	14-SOIC	26.58	24.81	23.04
LOG2112AIDW	296-13815-5-ND	Precision Logarithmic Amp *NEW!*	16-SOIC	31.79	29.67	27.55
LT1013CP	296-1399-5-ND	Dual Precision Op Amp	8-Dip	1.35	1.08	.81
LT1013DD	296-1400-5-ND	Dual Precision Op Amp	8-SOIC	1.29	1.08	.86
LT1013DDR	296-14615-1-ND	Dual Precision Op Amp *NEW!*	8-SOIC	1.29	1.08	.86
LT1013DDR	296-14615-2-ND	Dual Precision Op Amp *NEW!*	8-SOIC	1397.50/2,500		
LT1013DIDR	296-12982-1-ND	Dual Precision Op Amp	8-SOIC	1.44	1.20	.96
LT1013DIDR	296-12982-2-ND	Dual Precision Op Amp	8-SOIC	1560.00/2,500		
LT1013DIP	296-7044-5-ND	Dual Precision Op Amp	8-Dip	1.44	1.20	.96
LT1013DP	296-7045-5-ND	Dual Precision Op Amp	8-Dip	1.29	1.08	.86
LT1014CN	296-14616-5-ND	Quad Precision Op Amp *NEW!*	14-Dip	4.43	3.55	2.76
LT1014DIDW	296-7046-5-ND	Quad Precision Op Amp	16-SOIC	5.22	4.18	3.25
LT1014DN	296-7047-5-ND	Quad Precision Op Amp	14-Dip	4.14	3.32	2.58
LT1030CDR	296-14617-1-ND	Quad LP Line Driver *NEW!*	14-SOIC	1.48	1.18	.89
LT1030CDR	296-14617-2-ND	Quad LP Line Driver *NEW!*	14-SOIC	1887.50/2,500		
MC1458D	296-9601-5-ND	Dual General Purpose Op Amp	8-SOIC	.43	.34	.26
MC1458DR	296-14622-1-ND	Dual General Purpose Op Amp *NEW!*	8-SOIC	.43	.34	.26
MC1458DR	296-14622-2-ND	Dual General Purpose Op Amp *NEW!*	8-SOIC	287.50/2,500		
MC1458P	296-1403-5-ND	Dual General Purpose Op Amp	8-Dip	.43	.34	.26
MC3303D	296-7033-5-ND	Quad LP Op Amp, -40°C to 85°C	14-SOIC	.60	.45	.34
MC3303N	296-7034-5-ND	Quad LP Op Amp, -40°C to 85°C	14-Dip	.60	.45	.34
MC3303PWR	296-11661-1-ND	Quad LP Op Amp, -40°C to 85°C	14-TSSOP	.60	.45	.34
MC3303PWR	296-11661-2-ND	Quad LP Op Amp, -40°C to 85°C	14-TSSOP	400.00/2,000		
MC3403D	296-7035-5-ND	Quad Low Power GP Op Amp	14-SOIC	.52	.39	.30
MC3403DR	296-14623-1-ND	Quad Low Power GP Op Amp *NEW!*	14-SOIC	.52	.39	.30
MC3403DR	296-14623-2-ND	Quad Low Power GP Op Amp *NEW!*	14-SOIC	422.50/2,500		
MC3403N	296-1406-5-ND	Quad Low Power GP Op Amp	14-Dip	.52	.39	.30
MC3403NSR	296-1407-1-ND	Quad Low Power GP Op Amp	14-SOP	.52	.39	.30
MC3403NSR	296-1407-2-ND	Quad Low Power GP Op Amp	14-SOP	346.00/2,000		
MC3403PWR	296-7036-1-ND	Quad Low Power GP Op Amp	14-TSSOP	.52	.39	.30
MC3403PWR	296-7036-2-ND	Quad Low Power GP Op Amp	14-TSSOP	346.00/2,000		
MC3487D	296-7039-5-ND	Quad Differential Line Driver	16-SOIC	.96	.72	.54
NE5532ADR	296-13621-1-ND	Dual Low Noise Op Amp	8-SOIC	1.20	1.00	.80
NE5532ADR	296-13621-2-ND	Dual Low Noise Op Amp	8-SOIC	1300.00/2,500		
NE5532AP	296-7040-5-ND	Dual Low Noise Op Amp	8-Dip	1.20	1.00	.80
NE5532APSR	296-13103-1-ND	Dual Low Noise Op Amp	8-SOP	1.20	1.00	.80
NE5532APSR	296-13103-2-ND	Dual Low Noise Op Amp	8-SOP	1064.00/2,000		
NE5532DR	296-13622-1-ND	Dual Low Noise Op Amp	8-SOIC	.75	.63	.50
NE5532DR	296-13622-2-ND	Dual Low Noise Op Amp	8-SOIC	812.50/2,500		
NE5532P	296-1410-5-ND	Dual Low Noise Op Amp	8-Dip	.75	.63	.50
NE5532PSR	296-12641-1-ND	Dual Low Noise Op Amp	8-SOP	.75	.63	.50
NE5532PSR	296-12641-2-ND	Dual Low Noise Op Amp	8-SOP	666.00/2,000		
NE5534AP	296-7042-5-ND	Low Noise High-Speed Audio Op Amp	8-Dip	1.20	1.00	.80
NE5534D	296-14346-5-ND	Low Noise High-Speed Audio Op Amp *NEW!*	8-SOIC	.96	.80	.64
NE5534P	296-7043-5-ND	Low Noise High-Speed Audio Op Amp	8-Dip	.96	.80	.64
OP-07DPSR	296-14171-1-ND	Low Noise Precision Op Amp *NEW!*	8-SOIC	.78	.65	.52
OP-07DPSR	296-14171-2-ND	Low Noise Precision Op Amp *NEW!*	8-SOIC	692.00/2,000		
OP07CD	296-12852-5-ND	Low Offset Volt Prec. Op Amp	8-SOIC	1.05	.88	.70
OP07CDR	296-14626-1-ND	Low Offset Volt Prec. Op Amp *NEW!*	8-SOIC	1.05	.88	.70
OP07CDR	296-14626-2-ND	Low Offset Volt Prec. Op Amp *NEW!*	8-SOIC	1137.50/2,500		
OP07CP	296-12853-5-ND	Low Offset Volt Prec. Op Amp	8-Dip	1.05	.88	.70
OP07DD	296-9621-5-ND	Low Offset Volt Prec. Op Amp	8-SOIC	.78	.65	.52
OP07DDR	296-14627-1-ND	Low Offset Volt Prec. Op Amp *NEW!*	8-SOIC	.78	.65	.52
OP07DDR	296-14627-2-ND	Low Offset Volt Prec. Op Amp *NEW!*	8-SOIC	845.00/2,500		
OP07DP	296-9622-5-ND	Low Offset Volt Prec. Op Amp	8-Dip	.78	.65	.52
OPA27GP	OPA27GP-ND	Compensated, Low Noise, Precision Op Amp	8-Dip	2.55	2.04	1.53
OPA27GU	OPA27GU-ND	Compensated, Low Noise, Precision Op Amp	8-SOIC	2.30	1.84	1.43
OPA37GP	OPA37GP-ND	Uncompensated, Low Noise, Precision Op Amp	8-Dip	2.60	2.08	1.56
OPA37GU	OPA37GU-ND	Uncompensated, Low Noise, Precision Op Amp	8-SOIC	2.34	1.88	1.46
OPA111AM	OPA111AM-ND	Low Noise, Precision Op Amp (500µV out)	TO-99	13.04	11.75	10.42
OPA111BM	OPA111BM-ND	Low Noise, Precision Op Amp (250µV out)	TO-99	25.10	23.43	21.75
OPA121KU	OPA121KU-ND	Low Cost, Precision DiFET Op Amp	8-SOIC	9.20	7.36	6.21
OPA124U	OPA124U-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	7.14	5.72	4.82
OPA124UA	OPA124UA-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	8.46	6.77	5.72
OPA128JM	OPA128JM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	17.33	16.17	15.02
OPA128KM	OPA128KM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	23.63	22.05	20.48
OPA128LM	OPA128LM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	29.96	27.96	25.97
OPA128SM	OPA128SM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	59.96	55.96	51.97
OPA129U	OPA129U-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	5.76	4.61	3.89
OPA129UB	OPA129UB-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	9.80	7.84	6.62
OPA130UA	OPA130UA-ND	Low Power, Prec., FET-In Op Amp	8-SOIC	2.79	2.24	1.74
OPA131U	OPA131U-ND	General Purpose FET-Input Op Amp	8-SOIC	4.21	3.37	2.62
OPA131UA	OPA131UA-ND	General Purpose FET-Input Op Amp	8-SOIC	2.27	1.82	1.42
OPA131UJ	OPA131UJ-ND	General Purpose FET-Input Op Amp	8-SOIC	1.68	1.34	1.01
OPA132U	OPA132U-ND	High-Speed FET-Input Op Amp	8-SOIC	5.12	4.10	3.46
OPA132UA	OPA132UA-ND	High-Speed FET-Input Op Amp	8-SOIC	2.86	2.29	1.78
OPA134PA	OPA134PA-ND	High Performance Audio Op Amp	8-Dip	2.10	1.68	1.26
OPA134UA	OPA134UA-ND	High Performance Audio Op Amp	8-SOIC	2.10	1.68	1.26
OPA137N/250	OPA137NCT-ND	Low Cost FET-Input Op Amp	SOT-23-5	2.30	1.84	1.38
OPA137N/250	OPA137NTR-ND	Low Cost FET-Input Op Amp	SOT-23-5	322.00/250		
OPA137NA/250	OPA137NACT-ND	Low Cost FET-Input Op Amp	SOT-23-5	1.53	1.22	.92
OPA137NA/250	OPA137NATR-ND	Low Cost FET-Input Op Amp	SOT-23-5	213.50/250		
OPA137P	OPA137P-ND	Low Cost FET-Input Op Amp	8-Dip	2.08	1.66	1.25
OPA137PA	OPA137PA-ND	Low Cost FET-Input Op Amp	8-Dip	1.28	1.02	.77
OPA137U	OPA137U-ND	Low Cost FET-Input Op Amp	8-SOIC	2.08	1.66	1.25
OPA137UA	OPA137UA-ND	Low Cost FET-Input Op Amp	8-SOIC	1.28	1.02	.77
OPA177FP	OPA177FP-ND	Precision Op Amp	8-Dip	5.15	4.13	3.21
OPA177GP	OPA177GP-ND	Precision Op Amp	8-Dip	1.73	1.38	1.04
OPA177GS	OPA177GS-ND	Precision Op Amp	8-SOIC	1.73	1.38	1.04
OPA227P	OPA227P-ND	High Precision, Low Noise Op Amp	8-Dip	4.77	3.82	2.97
OPA227PA	OPA227PA-ND	High Precision, Low Noise Op Amp	8-Dip	2.40	1.92	1.44
OPA227U	OPA227U-ND	High Precision, Low Noise Op Amp	8-SOIC	4.77	3.82	2.97
OPA227UA	OPA227UA-ND	High Precision, Low Noise Op Amp	8-SOIC	2.40	1.92	1.44
OPA228P	OPA228P-ND	Low Noise Precision Op Amp	8-Dip	4.77	3.82	2.97
OPA228PA	OPA228PA-ND	Low Noise Precision Op Amp	8-Dip	2.40	1.92	1.44
OPA228U	OPA228U-ND	Low Noise Precision Op Amp	8-SOIC	4.77	3.82	2.97
OPA228UA	OPA228UA-ND	Low Noise Precision Op Amp	8-SOIC	2.40	1.92	1.44
OPA234E/250	OPA234ECT-ND	Low Power Single-Supply Op Amp	8-MSOP	3.22	2.58	2.01
OPA234E/250	OPA234ETR-ND	Low Power Single-Supply Op Amp	8-MSOP	475.50/250		
OPA234EA/250	OPA234EACT-ND	Low Power Single Supply Op Amp	8-MSOP	2.60	2.08	1.56
OPA234EA/250	OPA234EATR-ND	Low Power Single Supply Op Amp	8-MSOP	364.00/250		
OPA234U	OPA234U-ND	Low Power Single-Supply Op Amp	8-SOIC	2.97	2.38	1.85
OPA234UA	OPA234UA-ND	Low Power Single-Supply Op Amp	8-SOIC	2.35	1.88	1.41
OPA237NA/250	OPA237NACT-ND	Single-Supply Op Amp	SOT-23-5	1.40	1.12	.84
OPA237NA/250	OPA237NATR-ND	Single-Supply Op Amp	SOT-23-5	196.00/250		
OPA237UA	OPA237UA-ND	Single-Supply Op Amp	8-SOIC	1.41	1.18	.94

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA241PA	OPA241PA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-Dip	2.55	2.04	1.53
OPA241UA	OPA241UA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-SOIC	2.30	1.84	1.43
OPA244NA/250	OPA244NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	1.40	1.12	.84
OPA244NA/250	OPA244NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	196.00/250		
OPA244PA	OPA244PA-ND	Single-Supply, Micropower Op Amp	8-Dip	1.41	1.18	.94
OPA244UA	OPA244UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.41	1.18	.94
OPA251PA	OPA251PA-ND	Single-Supply, Micropower Op Amp	8-Dip	2.55	2.04	1.53
OPA251UA	OPA251UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.30	1.84	1.43
OPA277P	OPA277P-ND	High Precision Op Amp	8-Dip	4.28	3.42	2.66
OPA277PA	OPA277PA-ND	High Precision Op Amp	8-Dip	1.93	1.54	1.16
OPA277U	OPA277U-ND	High Precision Op Amp	8-SOIC	4.28	3.42	2.66
OPA277UA	OPA277UA-ND	High Precision Op Amp	8-SOIC	1.93	1.54	1.16
OPA334AIDBVT	296-13466-1-ND	Single Supply CMOS Zero Drift Op Amp	SOT-23-6	2.25	1.80	1.35
OPA334AIDBVT	296-13466-2-ND	Single Supply CMOS Zero Drift Op Amp	SOT-23-6	315.00/250		
OPA335AID	296-13467-5-ND	Single Supply CMOS Zero Drift Op Amp	8-SOIC	2.25	1.80	1.35
OPA335AIDBVT	296-13468-1-ND	Single Supply CMOS Zero Drift Op Amp	SOT-23-5	2.25	1.80	1.35
OPA335AIDBVT	296-13468-2-ND	Single Supply CMOS Zero Drift Op Amp	SOT-23-5	315.00/250		
OPA336U	OPA336U-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.15	1.72	1.29
OPA336N/250	OPA336NCT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	2.38	1.90	1.43
OPA336N/250	OPA336NTR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	332.50/250		
OPA336NA/250	OPA336NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	1.68	1.34	1.01
OPA336NA/250	OPA336NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	234.50/250		
OPA336UA	OPA336UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.45	1.16	.87
OPA337EA/250	OPA337EACT-ND	Single Supply, CMOS Op Amp	8-MSOP	1.44	1.20	.96
OPA337EA/250	OPA337EATR-ND	Single Supply, CMOS Op Amp	8-MSOP	180.00/250		
OPA337NA/250	OPA337NACT-ND	Single Supply, CMOS Op Amp	SOT-23-5	1.44	1.20	.96
OPA337NA/250	OPA337NATR-ND	Single Supply, CMOS Op Amp	SOT-23-5	180.00/250		
OPA337PA	OPA337PA-ND	Single Supply, CMOS Op Amp	8-Dip	1.17	.98	.78
OPA337UA/2K5	OPA337UACT-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.23	1.03	.82
OPA337UA	OPA337UA-ND	Single Supply, CMOS Op Amp	8-SOIC	1.17	.98	.78
OPA337UA/2K5	OPA337UATR-ND	Single-Supply, CMOS Op Amp	8-SOIC	1332.50/2,500		
OPA338NA/250	OPA338NACT-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	1.44	1.20	.96
OPA338NA/250	OPA338NATR-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	180.00/250		
OPA338UA	OPA338UA-ND	Decompensated Single-Supply CMOS Op Amp	8-SOIC	1.17	.98	.78
OPA340NA/250	OPA340NACT-ND	Single-Supply, R/R Op Amp	SOT-23-5	1.80	1.44	1.08
OPA340NA/250	OPA340NATR-ND	Single-Supply, R/R Op Amp	SOT-23-5	252.00/250		
OPA340PA	OPA340PA-ND	Single-Supply, R/R Op Amp	8-Dip	1.58	1.26	.95
OPA340UA	OPA340UA-ND	Single-Supply, R/R Op Amp	8-SOIC	1.58	1.26	.95
OPA341NA/3K	OPA341NA/3KCT-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	SOT-23-6	1.70	1.36	1.02
OPA341NA/3K	OPA341NA/3KTR-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	SOT-23-6	2610.00/3,000		
OPA341UA	OPA341UA-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	8-SOIC	1.68	1.34	1.01
OPA342NA/250	OPA342NACT-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	1.60	1.28	.96
OPA342NA/250	OPA342NATR-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	224.00/250		
OPA342UA	OPA342UA-ND	Low Cost Micropower R/R Op Amp	8-SOIC	1.35	1.08	.81
OPA343NA/250	OPA343NACT-ND	Single Supply Op Amp	SOT-23-5	1.58	1.26	.95
OPA343NA/250	OPA343NATR-ND	Single Supply Op Amp	SOT-23-5	220.50/250		
OPA343UA	OPA343UA-ND	Single Supply Op Amp	8-SOIC	1.33	1.06	.80
OPA344NA/250	OPA344NACT-ND	Single Supply Op Amp	SOT-23-5	1.83	1.46	1.10
OPA344NA/250	OPA344NATR-ND	Single Supply Op Amp	SOT-23-5	255.50/250		
OPA344PA	OPA344PA-ND	Single Supply Op Amp	8-Dip	1.60	1.28	.96
OPA344UA	OPA344UA-ND	Single Supply Op Amp	8-SOIC	1.60	1.28	.96
OPA345NA/250	OPA345NACT-ND	Single Supply Op Amp	SOT-23-5	1.83	1.46	1.10
OPA345NA/250	OPA345NATR-ND	Single Supply Op Amp	SOT-23-5	255.50/250		
OPA345UA	OPA345UA-ND	Single Supply Op Amp	8-SOIC	1.60	1.28	.96
OPA347NA/250	OPA347NACT-ND	Micropower R/R, I/O Op Amp	SOT-23-5	1.33	1.06	.80
OPA347NA/250	OPA347NATR-ND	Micropower R/R, I/O Op Amp	SOT-23-5	185.50/250		
OPA347PA	OPA347PA-ND	Micropower R/R, I/O Op Amp	8-Dip	1.32	1.10	.88
OPA347SA/3K	296-13469-1-ND	Micropower R/R, I/O Op Amp	SC-70	1.32	1.10	.88
OPA347SA/3K	296-13469-2-ND	Micropower R/R, I/O Op Amp	SC-70	1716.00/3,000		
OPA347UA	OPA347UA-ND	Micropower R/R, I/O Op Amp	8-SOIC	1.32	1.10	.88
OPA347UA/2K5	OPA347UATR-ND	Micropower R/R, I/O Op Amp	8-SOIC	1495.00/2,500		
OPA348AID	296-12275-5-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	8-SOIC	1.23	1.03	.82
OPA348AIDBVT	296-12276-1-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SOT-23-5	1.23	1.03	.82
OPA348AIDBVT	296-12276-2-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SOT-23-5	153.75/250		
OPA348AIDCKT	296-12728-1-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SC70-5	1.23	1.03	.82
OPA348AIDCKT	296-12728-2-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SC70-5	153.75/250		
OPA349NA/250	OPA349NACT-ND	1µA, R/R I/O CMOS Op Amp	SOT-23-5	1.88	1.50	1.13
OPA349NA/250	OPA349NATR-ND	1µA, R/R I/O CMOS Op Amp	SOT-23-5	262.50/250		
OPA349SA/250	296-12729-1-ND	1µA, R/R I/O CMOS Op Amp	SC70-5	1.65	1.32	.99
OPA349SA/250	296-12729-2-ND	1µA, R/R I/O CMOS Op Amp	SC70-5	231.00/250		
OPA349UA	OPA349UA-ND	1µA, R/R I/O CMOS Op Amp	8-SOIC	1.65	1.32	.99
OPA350EA/250	OPA350EACT-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-MSOP	2.79	2.24	1.74
OPA350EA/250	OPA350EATR-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-MSOP	412.25/250		
OPA350PA	OPA350PA-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-Dip	2.59	2.07	1.61
OPA350UA	OPA350UA-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-SOIC	2.59	2.07	1.61
OPA353NA/250	OPA353NACT-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	2.25	1.80	1.40
OPA353NA/250	OPA353NATR-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	332.50/250		
OPA353UA	OPA353UA-ND	HS, Single-Supply, R/R CMOS Op Amp (35MHz)	8-SOIC	2.25	1.80	1.35
OPA354AIDBVT	296-13033-1-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	1.65	1.32	.99
OPA354AIDBVT	296-13033-2-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	231.00/250		
OPA354AIDDA	296-13785-5-ND	250MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.65	1.32	.99
OPA355NA/250	296-11641-1-ND	High Speed, Video Op Amp	SOT-23-6	2.03	1.62	1.22
OPA355NA/250	296-11641-2-ND	High Speed, Video Op Amp	SOT-23-6	283.50/250		
OPA355NA/3K	296-14628-1-ND	200MHz, Op Amp with Shutdown *NEW!*	SOT23-6	2.03	1.62	1.22
OPA355NA/3K	296-14628-2-ND	200MHz, Op Amp with Shutdown *NEW!*	SOT23-6	3111.00/3,000		
OPA355UA	296-11647-5-ND	High Speed, Video Op Amp	8-SOIC	2.03	1.62	1.22
OPA356AID	296-12407-5-ND	2.5V, Single CMOS Op Amp	8-SOIC	2.03	1.62	1.22
OPA357AIDBVT	296-13009-1-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	1.65	1.32	.99
OPA357AIDBVT	296-13009-2-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	231.00/250		
OPA357AIDDA	296-13786-5-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	8-SOIC	1.65	1.32	.99
OPA363AID	296-13880-5-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-SOP	1.30	1.04	.78
OPA363AIDBVT	296-13881-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	SOT-23-6	1.30	1.04	.78
OPA363AIDBVT	296-13881-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	SOT-23-6	182.00/250		
OPA363ID	296-13882-5-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-SOP	1.90	1.52	1.14
OPA363IDBVT	296-13883-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	SOT-23-6	1.90	1.52	1.14
OPA363IDBVT	296-13883-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	SOT-23-6	266.00/250		
OPA364AID	296-13884-5-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-SOP	1.30	1.04	.78
OPA364AIDBVT	296-13885-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	SOT-23-5	1.30	1.04	.78
OPA364AIDBVT	296-13885-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	SOT-23-5	182.00/250		
OPA364ID	296-13886-5-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-SOP	1.90	1.52	1.14
OPA364IDBVT	296-13887-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	SOT-23-5	1.90	1.52	1.14
OPA364IDBVT	296-13887-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	SOT-23-5	266.00/250		
OPA404KP	OPA404KP-ND	Quad High Spd., Prec. DiFET Op Amp	14-Dip	11.31	10.19	9.04
OPA404KU	OPA404KU-ND	Quad High Spd., Prec. DiFET Op Amp	16-SOIC	10.73	9.66	8.57
OPA445AP	OPA445AP-ND	High Voltage Op Amp	8-Dip	8.56	6.85	5.78
OPA445AU	OPA445AU-ND	High Voltage Op Amp	8-SOIC	5.29	4.23	3.29
OPA452FA	OPA452FA-ND	80V, 50mA Op Amp	7-DDPAK	5.13	4.11	3.20
OPA452TA-1	OPA452TA-1-ND	80V, 50mA Op Amp	TO-220-7-ZIP	5.13	4.11	3.20
OPA452TA	OPA452TA-ND	80V, 50mA Op Amp	TO-220-7	5.13	4.11	3.20
OPA453FA	OPA453FA-ND	80V, 50mA Op Amp	7-DDPAK	5.13	4.11	3.20
OPA453TA-1	OPA453TA-1-ND	80V, 50mA Op Amp	TO-220-7-ZIP	5.13	4.11	3.20
OPA453TA	OPA453TA-ND	80V, 50mA Op Amp	TO-220-7	5.13	4.11	3.20
OPA501AM	OPA501AM-ND	High Voltage High Current Op Amp	TO-3-8	67.76	63.24	58.73
OPA512BM	OPA512BM-ND	Very-High Current, High Power Op Amp	TO-3-8	84.51	78.88	73.25
OPA541AM	OPA541AM-ND	High Power Monolithic Op Amp	TO-3-8	34.68	32.37	30.06
OPA541AP	OPA541AP-ND	High Power Monolithic Op Amp	11-PWR-ZIP	15.02	14.02	13.02
OPA544F	OPA544F-ND	High Voltage, High Current Op Amp	5-DDPAK	10.30	9.27	8.22
OPA544T	OPA544T-ND	High Voltage, High Current Op Amp	TO-220-5	10.30	9.27	8.22
OPA547F	OPA547F-ND	High Voltage, 60V, High Current (.5A) Op Amp	DDPAK-7	7.86	6.29	5.31
OPA547T	OPA547T-ND	High Voltage, 60V, High Current (.5A) Op Amp	TO-220-7	7.86	6.29	5.31
OPA548F	OPA548F-ND	High Voltage, 60V, High Current (3A) Op Amp	DDPAK-7	8.71	7.85	6.96
OPA548T	OPA548T-ND	High -Voltage, 60V, High Current (3A) Op Amp	TO-220-7	8.71	7.85	6.96
OPA549S	OPA549S-ND	High Voltage, High Current Op Amp	11-PFM	15.60	14.56	13.52
OPA549T	OPA549T-ND	High Voltage, High-Current Op Amp	11-ZIP	15.60	14.56	13.52
OPA551FA	OPA551FA-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	4.86	3.89	3.03
OPA551PA	OPA551PA-ND	High Current/Power 60V, 200mA Op Amp	8-Dip	3.56	2.85	2.22
OPA551UA	OPA551UA-ND	High Current/Power 60V, 200mA Op Amp	8-SOIC	3.56	2.85	2.22
OPA552FA	OPA552FA-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	4.86	3.89	3.03
OPA552PA	OPA552PA-ND	High Current/Power 60V, 200mA Op Amp	8-Dip	3.56	2.85	2.22
OPA552UA	OPA552UA-ND	High Current/Power 60V, 200mA Op Amp	8-SOIC	3.56	2.85	2.22
OPA561PWP	OPA561PWP-ND	High Current, High Speed Op Amp	20-HTSSOP	5.33	4.27	3.32
OPA569AIDWP	296-14174-5-ND	Rail-to-Rail, 2A Power Amp *NEW!*	20-HSOP	5.60	4.48	3.78
OPA602AP	OPA602AP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	6.84	5.48	4.62
OPA602AU	OPA602AU-ND	High-Speed, Precision DiFET Op Amp	8-SOIC	7.50	6.00	5.07
OPA602BP	OPA602BP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	11.02	8.82	7.44
OPA604AP	OPA604AP-ND	FET-Input, Low Distortion Op Amp	8-Dip	2.15	1.72	1.29
OPA604AU	OPA604AU-ND	FET-Input, Low Distortion Op Amp	8-SOIC	2.15	1.72	1.29
OPA606KP	OPA606KP-ND	Wide Bandwidth DiFET Op Amp	8-Dip	6.73	5.39	4.19
OPA627AP	OPA627AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	15.24	13.73	12.17
OPA627AU	OPA627AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	15.83	14.77	13.72
OPA627BP	OPA627BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	22.97	21.44	19.91
OPA627AM	OPA627AM-ND	Precision High-Speed DiFET Op Amp	TO-99-8	16.44	15.35	14.25
OPA631N/250	OPA631NCT-ND	Low Power Single Supply Op Amp	SOT-23-5	2.70	2.16	1.68
OPA633KP	OPA633KP-ND	High-Speed Buffer-Amp	8-Dip	9.78	7.83	6.61
OPA634N/250	OPA634NCT-ND	Wideband, Single Supply Op Amp	SOT-23-5	3.11	2.49	1.94
OPA635N/250	OPA635NCT-ND	Wideband, R/R Op Amp w/Disable	SOT-23-6	3.11	2.49	1.94
OPA637AP	OPA637AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	15.24	13.73	12.17
OPA637AU	OPA637AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	15.83	14.77	13.72
OPA637BP	OPA637BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	22.97	21.44	19.91
OPA642N/250	OPA642NCT-ND	Wideband, Low Distortion Low Gain Op Amp	SOT-23-5	6.90	5.52	4.66

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA642N/250	OPA642NTR-ND	Wideband, Low Distortion Low Gain Op Amp	SOT-23-5	1121.25/250		
OPA642U	OPA642U-ND	Wideband, Low Distortion, Low Gain Op Amp	8-SOIC	6.86	5.49	4.64
OPA643N/250	OPA643NCT-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	6.90	5.52	4.66
OPA643N/250	OPA643NTR-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	1121.25/250		
OPA643NB/250	OPA643NBCT-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	9.78	7.83	6.61
OPA643NB/250	OPA643NBTR-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	1589.25/250		
OPA643U	OPA643U-ND	Wideband, Low Distortion, High Gain Op Amp	8-SOIC	6.86	5.49	4.64
OPA643UB	OPA643UB-ND	Wideband, Low Distortion, High Gain Op Amp	8-SOIC	9.74	7.80	6.58
OPA650N/250	OPA650NCT-ND	Wideband, Low Power, Voltage Feedback Op Amp	SOT-23-5	2.70	2.16	1.68
OPA650N/250	OPA650NTR-ND	Wideband, Low Power, Voltage Feedback Op Amp	SOT-23-5	399.00/250		
OPA650U	OPA650U-ND	Wideband, Low Power, Voltage Feedback Op Amp	8-SOIC	2.66	2.13	1.66
OPA651N/250	OPA651NCT-ND	Wideband, LP, V-Feedback Op Amp -Gain +2 Optimized	SOT-23-5	4.74	3.95	3.16
OPA655P	OPA655P-ND	Wideband, FET-Input Op Amp	8-Dip	14.63	13.17	11.68
OPA655U	OPA655U-ND	Wideband, FET-Input Op Amp	8-SOIC	14.63	13.17	11.68
OPA656N/250	OPA656N/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	6.36	5.09	4.30
OPA656N/250	OPA656N/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	1033.50/250		
OPA656NB/250	OPA656NB/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	8.46	6.77	5.72
OPA656NB/250	OPA656NB/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	1374.75/250		
OPA656U	OPA656U-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	6.06	4.85	4.10
OPA656UB	OPA656UB-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	8.16	6.53	5.51
OPA657N/250	OPA657N/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	7.10	5.68	4.80
OPA657N/250	OPA657N/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	1153.75/250		
OPA657NB/250	OPA657NB/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	9.22	7.38	6.23
OPA657NB/250	OPA657NB/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	1498.25/250		
OPA657U	OPA657U-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	6.82	5.46	4.61
OPA657UB	OPA657UB-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	8.92	7.14	6.03
OPA658N/250	OPA658NCT-ND	Wideband, LP, Current-Fdbk. Op Amp	SOT-23-5	3.11	2.49	1.94
OPA658N/250	OPA658NTR-ND	Wideband, LP, Current-Fdbk. Op Amp	SOT-23-5	458.75/250		
OPA658P	OPA658P-ND	Wideband, LP, Current-Fdbk. Op Amp	8-Dip	4.01	3.21	2.50
OPA658U	OPA658U-ND	Wideband, LP, Current-Fdbk. Op Amp	8-SOIC	3.06	2.45	1.91
OPA658UB	OPA658UB-ND	Wideband, LP, Current-Fdbk. Op Amp	8-SOIC	4.84	3.87	3.01
OPA660AP	OPA660AP-ND	Wideband Transconductance Op Amp and Buffer	8-Dip	10.06	8.05	6.80
OPA660AU	OPA660AU-ND	Wideband Transconductance Op Amp and Buffer	8-SOIC	8.68	6.95	5.86
OPA683ID	296-12854-5-ND	Very Low-Power, Current Feedback Op Amp	8-SOIC	2.45	1.97	1.53
OPA683IDBVT	296-12855-1-ND	Very Low-Power, Current Feedback Op Amp	SOT-23-6	2.68	2.15	1.67
OPA683IDBVT	296-12855-2-ND	Very Low-Power, Current Feedback Op Amp	SOT-23-6	395.75/250		
OPA684ID	OPA684ID-ND	Low Power, Current Feedback Op Amp	8-SOIC	2.77	2.22	1.73
OPA684IDBVT	OPA684IDBVTCT-ND	Low Power, Current Feedback Op Amp with Disable	SOT-23-6	2.97	2.38	1.85
OPA684IDBVT	OPA684IDBVTTR-ND	Low Power, Current Feedback Op Amp with Disable	SOT-23-6	439.00/250		
OPA685N/250	OPA685NCT-ND	Ultra-Wideband, Current-Feedback Op Amp with Disable	SOT-23-6	3.94	3.15	2.45
OPA685N/250	OPA685NTR-ND	Ultra-Wideband, Current-Feedback Op Amp with Disable	SOT-23-6	582.00/250		
OPA685U	OPA685U-ND	Ultra-Wideband, Current-Feedback Op Amp with Disable	8-SOIC	3.89	3.12	2.43
OPA686N/250	OPA686NCT-ND	Wideband, Low Noise, V-Feedback Op Amp	SOT-23-5	5.34	4.28	3.61
OPA686N/250	OPA686NTR-ND	Wideband, Low Noise, V-Feedback Op Amp	SOT-23-5	887.75/250		
OPA686U	OPA686U-ND	Wideband, Low Noise, V-Feedback Op Amp	8-SOIC	5.30	4.24	3.58
OPA687N/250	OPA687NCT-ND	Wideband, Ultra-Low Noise Voltage Feedback Op Amp	SOT-23-6	6.44	5.16	4.35
OPA687N/250	OPA687NTR-ND	Wideband, Ultra-Low Noise Voltage Feedback Op Amp	SOT-23-6	1046.50/250		
OPA687U	OPA687U-ND	Wideband, Ultra-Low Noise Voltage Feedback Op Amp	8-SOIC	6.40	5.12	4.32
OPA688P	OPA688P-ND	Wideband, Voltage Limiting Op Amp	8-Dip	5.96	4.77	3.71
OPA688U	OPA688U-ND	Wideband, Voltage Limiting Op Amp	8-SOIC	5.47	4.38	3.41
OPA689P	OPA689P-ND	Wideband, High Gain Voltage Limiting Amp	8-Dip	5.96	4.77	4.03
OPA689U	OPA689U-ND	Wideband, High Gain Voltage Limiting Amp	8-SOIC	5.40	4.32	3.65
OPA690ID	OPA690ID-ND	Wideband Voltage-Feedback Op Amp with Disable	8-SOIC	3.20	2.56	1.99
OPA690IDBVT	OPA690IDBVTCT-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	3.40	2.72	2.12
OPA690IDBVT	OPA690IDBVTTR-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	502.00/250		
OPA691ID	OPA691ID-ND	Wideband Current-Feedback Op Amp with Disable	8-SOIC	3.11	2.49	1.94
OPA691IDBVT	OPA691IDBVTCT-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	3.31	2.65	2.06
OPA691IDBVT	OPA691IDBVTTR-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	488.75/250		
OPA692ID	OPA692ID-ND	Wideband Video Buffer Amp with Disable	8-SOIC	2.88	2.31	1.80
OPA703NA/250	296-9624-1-ND	CMOS R/R I/O Op Amp	SOT-23-5	2.79	2.24	1.74
OPA703NA/250	296-9624-2-ND	CMOS R/R I/O Op Amp	SOT-23-5	412.25/250		
OPA703PA	OPA703PA-ND	1MHz, CMOS R/R I/O Op Amp	8-Dip	2.59	2.07	1.61
OPA703UA	OPA703UA-ND	1MHz, CMOS R/R I/O Op Amp	8-SOIC	2.59	2.07	1.61
OPA704NA/3K	OPA704NA/3KCT-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	2.63	2.11	1.64
OPA704NA/3K	OPA704NA/3KTR-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	4422.00/3,000		
OPA704PA	OPA704PA-ND	3MHz, CMOS R/R I/O Op Amp	8-Dip	2.59	2.07	1.61
OPA704UA	OPA704UA-ND	3MHz, CMOS R/R I/O Op Amp	8-SOIC	2.59	2.07	1.61
OPA705NA/3K	OPA705NA/3KCT-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	1.30	1.04	.78
OPA705NA/3K	OPA705NA/3KTR-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	1998.00/3,000		
OPA705PA	OPA705PA-ND	1MHz, CMOS R/R In/Out Op Amp	8-Dip	1.30	1.04	.78
OPA705UA	OPA705UA-ND	1MHz, CMOS R/R In/Out Op Amp	8-SOIC	1.30	1.04	.78
OPA743NA/3K	OPA743NA/3KCT-ND	7MHz, CMOS R/R I/O Op Amp	5-SOP	2.10	1.68	1.26
OPA743NA/3K	OPA743NA/3KTR-ND	7MHz, CMOS R/R I/O Op Amp	5-SOP	3225.00/3,000		
OPA743PA	OPA743PA-ND	7MHz, CMOS R/R I/O Op Amp	8-Dip	2.10	1.68	1.26
OPA743UA	OPA743UA-ND	7MHz, CMOS R/R I/O Op Amp	8-SOIC	2.10	1.68	1.26
OPA842ID	296-14175-5-ND	Wideband, Low Dist. Voltage Feedback Op Amp *NEW!*	8-SOIC	3.11	2.49	1.94
OPA842IDBVT	296-14176-1-ND	Wideband, Low Dist. Voltage Feedback Op Amp *NEW!*	SOT-23-5	3.31	2.65	2.06
OPA842IDBVT	296-14176-2-ND	Wideband, Low Dist. Voltage Feedback Op Amp *NEW!*	SOT-23-5	488.75/250		
OPA843ID	296-14177-5-ND	Wideband, Low Dist. Voltage Feedback Op Amp *NEW!*	8-SOIC	3.20	2.56	1.99
OPA843IDBVT	296-14178-1-ND	Wideband, Low Dist. Voltage Feedback Op Amp *NEW!*	SOT-23-5	3.20	2.56	1.99
OPA843IDBVT	296-14178-2-ND	Wideband, Low Dist. Voltage Feedback Op Amp *NEW!*	SOT-23-5	502.00/250		
OPA1013CN8	OPA1013CN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	4.95	3.96	3.08
OPA1013DN8	OPA1013DN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	4.01	3.21	2.50
OPA2107AU	OPA2107AU-ND	Dual, Difet® Op Amp	8-SOIC	10.58	9.53	8.45
OPA2111KP	296-12983-5-ND	Dual Low Noise Precision Difet® Op Amp	8-Dip	11.60	10.44	9.26
OPA2130UA	OPA2130UA-ND	Dual, LP, Precision, FET-Input Op Amp	8-SOIC	4.52	3.62	2.82
OPA2131UA	OPA2131UA-ND	Dual, General Purpose, FET-Input Op Amp	8-SOIC	3.65	2.92	2.27
OPA2131UJ	OPA2131UJ-ND	Dual, General Purpose, FET-Input Op Amp	8-SOIC	2.75	2.20	1.71
OPA2132P	OPA2132P-ND	High Speed, FET Input Op Amp	8-Dip	9.14	7.32	6.17
OPA2132PA	OPA2132PA-ND	High Speed, FET Input Op Amp	8-Dip	4.88	3.91	3.04
OPA2132U	OPA2132U-ND	High Speed, FET Input Op Amp	8-SOIC	9.14	7.32	6.17
OPA2132UA	OPA2132UA-ND	High Speed, FET Input Op Amp	8-SOIC	4.88	3.91	3.04
OPA2134PA	OPA2134PA-ND	Dual, High Performance Audio Op Amp	8-Dip	2.63	2.10	1.58
OPA2134UA	OPA2134UA-ND	Dual, High Performance Audio Op Amp	8-SOIC	2.36	1.89	1.47
OPA2137E/250	OPA2137ECT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	2.30	1.84	1.43
OPA2137E/250	OPA2137ETR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	339.25/250		
OPA2137EA/250	OPA2137EACT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	1.78	1.42	1.07
OPA2137EA/250	OPA2137EATR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	248.50/250		
OPA2137P	OPA2137P-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	2.30	1.84	1.38
OPA2137PA	OPA2137PA-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	1.55	1.24	.93
OPA2137U	OPA2137U-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	2.30	1.84	1.38
OPA2137UA	OPA2137UA-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	1.55	1.24	.93
OPA2227P	OPA2227P-ND	Dual, High Precision Op Amp	8-Dip	7.18	5.75	4.85
OPA2227PA	OPA2227PA-ND	Dual, High Precision Op Amp	8-Dip	3.67	2.94	2.29
OPA2227U	OPA2227U-ND	Dual, High Precision Op Amp	8-SOIC	7.18	5.75	4.85
OPA2227UA	OPA2227UA-ND	Dual, High Precision Op Amp	8-SOIC	3.67	2.94	2.29
OPA2228P	OPA2228P-ND	Dual, High Precision Op Amp	8-Dip	7.18	5.75	4.85
OPA2228PA	OPA2228PA-ND	Dual, High Precision Op Amp	8-Dip	3.67	2.94	2.29
OPA2228U	OPA2228U-ND	Dual, High Precision Op Amp	8-SOIC	7.18	5.75	4.85
OPA2228UA	OPA2228UA-ND	Dual, High Precision Op Amp	8-SOIC	3.67	2.94	2.29
OPA2234U	OPA2234U-ND	Dual, Low Power, Precision, Single-Supply Op Amp	8-SOIC	4.64	3.71	2.89
OPA2234UA	OPA2234UA-ND	Dual, Low Power, Precision, Single-Supply Op Amp	8-SOIC	3.80	3.05	2.37
OPA2237EA/250	OPA2237EACT-ND	Dual, Single-Supply Op Amp	8-MSOP	2.28	1.82	1.37
OPA2237EA/250	OPA2237EATR-ND	Dual, Single-Supply Op Amp	8-MSOP	318.50/250		
OPA2237UA	OPA2237UA-ND	Dual, Single-Supply Op Amp	8-SOIC	2.05	1.64	1.23
OPA2241PA	OPA2241PA-ND	Dual, Single-Supply Micropower Op Amp	8-Dip	3.85	3.08	2.40
OPA2241UA	OPA2241UA-ND	Dual, Single-Supply Micropower Op Amp	8-SOIC	3.85	3.08	2.40
OPA2244EA/250	OPA2244EACT-ND	Single-Supply Op Amp	8-MSOP	2.18	1.74	1.31
OPA2244EA/250	OPA2244EATR-ND	Single-Supply Op Amp	8-MSOP	304.50/250		
OPA2244PA	OPA2244PA-ND	Single-Supply Op Amp	8-Dip	1.95	1.56	1.17
OPA2244UA	OPA2244UA-ND	Single-Supply Op Amp	8-SOIC	1.95	1.56	1.17
OPA2251PA	OPA2251PA-ND	Dual, Single-Supply Micropower Op Amp	8-Dip	3.89	3.12	2.43
OPA2251UA	OPA2251UA-ND	Dual, Single-Supply Micropower Op Amp	8-SOIC	3.89	3.12	2.43
OPA2277P	OPA2277P-ND	Dual, High Precision Op Amp	8-Dip	6.48	5.19	4.38
OPA2277PA	OPA2277PA-ND	Dual, High Precision Op Amp	8-Dip	3.29	2.63	2.05
OPA2277U	OPA2277U-ND	Dual, High Precision Op Amp	8-SOIC	6.48	5.19	4.38
OPA2277UA	OPA2277UA-ND	Dual, High Precision Op Amp	8-SOIC	3.29	2.63	2.05
OPA2334AIDGST	296-13459-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp with SD	10-MSOP	3.22	2.58	2.01
OPA2334AIDGST	296-13459-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp with SD	10-MSOP	475.50/250		
OPA2335AIDGKT	296-13461-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	3.22	2.58	2.01
OPA2335AIDGKT	296-13461-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	475.50/250		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA2335AIDR	296-13462-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	3.22	2.58	2.01
OPA2335AIDR	296-13462-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	4505.00/2,500		
OPA2336E/250	OPA2336ECT-ND	Dual, Micropower Op Amp	8-MSOP	3.51	2.81	2.19
OPA2336E/250	OPA2336ETR-ND	Dual, Micropower Op Amp	8-MSOP	518.75/250		
OPA2336EA/250	OPA2336EACT-ND	Dual, Micropower Op Amp	8-MSOP	2.36	1.89	1.47
OPA2336EA/250	OPA2336EATR-ND	Dual, Micropower Op Amp	8-MSOP	349.25/250		
OPA2336P	OPA2336P-ND	Dual, Micropower Op Amp	8-Dip	3.29	2.63	2.05
OPA2336PA	OPA2336PA-ND	Dual, Micropower Op Amp	8-Dip	2.40	1.92	1.44
OPA2336U	OPA2336U-ND	Dual, Micropower Op Amp	8-SOIC	3.29	2.63	2.05
OPA2336UA	OPA2336UA-ND	Dual, Micropower Op Amp	8-SOIC	2.40	1.92	1.44
OPA2337EA/250	OPA2337EACT-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	1.50	1.20	.90
OPA2337EA/250	OPA2337EATR-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	210.00/250		
OPA2337PA	OPA2337PA-ND	Dual, Single-Supply, MicroSize Op Amp	8-Dip	1.25	1.00	.75
OPA2337UA	OPA2337UA-ND	Dual, Single-Supply, MicroSize Op Amp	8-SOIC	1.25	1.00	.75
OPA2338EA/250	OPA2338EACT-ND	Dual, OPA338 Op Amp	SOT-23-8	1.50	1.20	.90
OPA2338EA/250	OPA2338EATR-ND	Dual, OPA338 Op Amp	SOT-23-8	210.00/250		
OPA2338UA	OPA2338UA-ND	Dual, OPA338 Op Amp	8-SOIC	1.25	1.00	.75
OPA2340EA/250	OPA2340EACT-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	2.57	2.06	1.60
OPA2340EA/250	OPA2340EATR-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	379.00/250		
OPA2340PA	OPA2340PA-ND	Dual, Single-Supply, R/R Op Amp	8-Dip	2.36	1.89	1.47
OPA2340UA	OPA2340UA-ND	Dual, Single-Supply, R/R Op Amp	8-SOIC	2.36	1.89	1.47
OPA2341DGSA/250	OPA2341DGSACT-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP	2.57	2.06	1.60
OPA2341DGSA/250	OPA2341DGSATR-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP	379.00/250		
OPA2342EA/250	OPA2342EACT-ND	Dual, Micropower R/R Op Amp	8-MSOP	2.40	1.92	1.44
OPA2342EA/250	OPA2342EATR-ND	Dual, Micropower R/R Op Amp	8-MSOP	336.00/250		
OPA2342UA	OPA2342UA-ND	Dual, Micropower R/R Op Amp	8-SOIC	2.15	1.72	1.29
OPA2343EA/250	OPA2343EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.23	1.78	1.34
OPA2343EA/250	OPA2343EATR-ND	Rail-to-Rail Op Amp	8-MSOP	311.50/250		
OPA2343UA	OPA2343UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.00	1.60	1.20
OPA2344EA/250	OPA2344EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.57	2.06	1.60
OPA2344EA/250	OPA2344EATR-ND	Rail-to-Rail Op Amp	8-MSOP	379.00/250		
OPA2344PA	OPA2344PA-ND	Rail-to-Rail Op Amp	8-Dip	2.36	1.89	1.47
OPA2344UA	OPA2344UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.36	1.89	1.47
OPA2345EA/250	OPA2345EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.57	2.06	1.60
OPA2345EA/250	OPA2345EATR-ND	Rail-to-Rail Op Amp	8-MSOP	379.00/250		
OPA2345UA	OPA2345UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.36	1.89	1.47
OPA2347EA/250	OPA2347EACT-ND	Rail-to-Rail Op Amp	SOT-23-8	1.68	1.34	1.01
OPA2347EA/250	OPA2347EATR-ND	Rail-to-Rail Op Amp	SOT-23-8	234.50/250		
OPA2347UA	OPA2347UA-ND	Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
OPA2347UA/2K5	OPA2347UATR-ND	Rail-to-Rail Op Amp	8-SOIC	1887.50/2,500		
OPA2348AIDCNT	296-13008-1-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	SOT-23-8	1.50	1.20	.90
OPA2348AIDCNT	296-13008-2-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	SOT-23-8	210.00/250		
OPA2349EA/250	OPA2349EACT-ND	Micropower Op Amp	SOT-23-8	2.38	1.90	1.43
OPA2349EA/250	OPA2349EATR-ND	Micropower Op Amp	SOT-23-8	332.50/250		
OPA2349UA	OPA2349UA-ND	Micropower Op Amp	8-SOIC	2.15	1.72	1.29
OPA2350EA/250	OPA2350EACT-ND	Dual, HS CMOS Op Amp (35MHz)	8-MSOP	4.55	3.64	2.83
OPA2350EA/250	OPA2350EATR-ND	Dual, HS CMOS Op Amp (35MHz)	8-MSOP	671.75/250		
OPA2350PA	OPA2350PA-ND	Dual, HS CMOS Op Amp (35MHz)	8-Dip	4.34	3.48	2.71
OPA2350UA	OPA2350UA-ND	Dual, HS CMOS Op Amp (35MHz)	8-SOIC	4.34	3.48	2.71
OPA2353EA/250	OPA2353EACT-ND	Low Cost, Dual, High-Speed CMOS Op Amp (35MHz)	8-MSOP	3.65	2.92	2.27
OPA2353EA/250	OPA2353EATR-ND	Low Cost, Dual, High-Speed CMOS Op Amp (35MHz)	8-MSOP	538.75/250		
OPA2353UA	OPA2353UA-ND	Low Cost, Dual, High-Speed CMOS Op Amp (35MHz)	8-SOIC	3.42	2.74	2.13
OPA2354AIDDA	296-13784-5-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-SOIC	2.43	1.95	1.52
OPA2354AIDGKR	296-12642-1-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-MSOP	2.43	1.95	1.52
OPA2354AIDGKR	296-12642-2-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-MSOP	3402.50/2,500		
OPA2355DGSA/250	296-12132-1-ND	High Speed Video Op Amp	10-MSOP	4.25	3.41	2.65
OPA2355DGSA/250	296-12132-2-ND	High Speed Video Op Amp	10-MSOP	442.25/250		
OPA2356AID	296-12406-5-ND	Dual, HS CMOS Op Amp	8-SOIC	2.99	2.40	1.87
OPA2357AIDGST	OPA2357AIDGSTCT-ND	R/R, I/O, CMOS Op Amp with Shutdown	10-MSOP	2.43	1.95	1.52
OPA2357AIDGST	OPA2357AIDGSTTR-ND	R/R, I/O, CMOS Op Amp with Shutdown	10-MSOP	359.00/250		
OPA2363AIDGST	296-13874-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	10-MSOP	2.10	1.68	1.26
OPA2363AIDGST	296-13874-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	10-MSOP	294.00/250		
OPA2363IDGST	296-13875-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	10-MSOP	2.72	2.18	1.70
OPA2363IDGST	296-13875-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	10-MSOP	402.25/250		
OPA2364AIDGKT	296-13876-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-MSOP	2.10	1.68	1.26
OPA2364AIDGKT	296-13876-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-MSOP	294.00/250		
OPA2364AIDR	296-13877-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-SOP	2.10	1.68	1.26
OPA2364AIDR	296-13877-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-SOP	2687.50/2,500		
OPA2364ID	296-13878-5-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-SOP	2.72	2.18	1.70
OPA2364IDGKT	296-13879-1-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-MSOP	2.72	2.18	1.70
OPA2364IDGKT	296-13879-2-ND	7MHz, Single Supply R/R Op Amp *NEW!*	8-MSOP	402.25/250		
OPA2541AM	OPA2541AM-ND	Dual, High Power Op Amp, 5A Out	TO-3	56.15	52.41	48.66
OPA2541BM	OPA2541BM-ND	Dual, High Power Op Amp, 5A Out	TO-3	58.74	54.83	50.91
OPA2544T	OPA2544T-ND	Dual, High-Voltage/Current Op Amp	11-ZIP	18.08	16.28	14.44
OPA2604AP	OPA2604AP-ND	Dual, FET-Input, Low Distortion Op Amp	8-Dip	3.56	2.85	2.22
OPA2604AU	OPA2604AU-ND	Dual, FET-Input, Low Distortion Op Amp	8-SOIC	3.56	2.85	2.22
OPA2650E/250	OPA2650ECT-ND	Dual, Wideband, LP, V. Feedback Op Amp	8-MSOP	5.81	4.98	4.57
OPA2650E/250	OPA2650ETR-ND	Dual, Wideband, LP, V. Feedback Op Amp	8-MSOP	570.00/250		
OPA2652E/250	OPA2652ECT-ND	Dual, Voltage Feedback Op Amp	SOT-23-8	2.66	2.13	1.66
OPA2652E/250	OPA2652ETR-ND	Dual, Voltage Feedback Op Amp	SOT-23-8	392.25/250		
OPA2652U	OPA2652U-ND	Dual, Voltage Feedback Op Amp	8-SOIC	2.43	1.95	1.52
OPA2658U	OPA2658U-ND	Dual, Wideband, Low Power, Current-Feedback Op Amp	8-SOIC	4.93	3.95	3.07
OPA2677H	OPA2677H-ND	Dual, Wideband, High Output Current Op Amp	8-HSOP	4.39	3.51	2.73
OPA2677T	OPA2677T-ND	Dual, Wideband, High Output Current Op Amp	16-SOIC	5.60	4.49	3.49
OPA2677U	OPA2677U-ND	Dual, Wideband, High Output Current Op Amp	8-SOIC	4.07	3.26	2.54
OPA2681N	OPA2681N-ND	Dual, Wideband, Current Feedback Op Amp with Disable	14-SOIC	5.34	4.28	3.61
OPA2681U	OPA2681U-ND	Dual, Wideband, Current Feedback Op Amp with Disable	8-SOIC	5.18	4.15	3.50
OPA2683ID	296-14172-5-ND	Dual, Very Low Power, Current Feedback Op Amp *NEW!*	8-SOIC	3.76	3.01	2.34
OPA2683IDCNT	296-14173-1-ND	Dual, Very Low Power, Current Feedback Op Amp *NEW!*	8-SSOP	3.98	3.19	2.48
OPA2683IDCNT	296-14173-2-ND	Dual, Very Low Power, Current Feedback Op Amp *NEW!*	8-SSOP	588.50/250		
OPA2684ID	296-13463-5-ND	Dual, Low Power, Current Feedback Op Amp	8-SOIC	4.21	3.37	2.62
OPA2684IDCNT	296-13994-1-ND	Dual, Low Power Op Amp *NEW!*	SOT-23-8	4.43	3.55	2.76
OPA2684IDCNT	296-13994-2-ND	Dual, Low Power Op Amp *NEW!*	SOT-23-8	655.00/250		
OPA2686U	OPA2686U-ND	Low Noise Voltage Feedback Op Amp	8-SOIC	8.43	7.59	6.73
OPA2690I-14D	296-13464-5-ND	Dual, Wideband, Voltage Feedback Op Amp with Disable	14-SOIC	4.95	3.96	3.08
OPA2690ID	296-13465-5-ND	Dual, Wideband, Voltage Feedback Op Amp with Disable	8-SOIC	4.95	3.96	3.08
OPA2691I-14D	OPA2691I-14D-ND	Dual Wideband, Current Feedback Op Amp	14-SOIC	4.95	3.96	3.08
OPA2691ID	OPA2691ID-ND	Dual Wideband, Current Feedback Op Amp	8-SOIC	2.82	3.96	3.08
OPA2703EA/250	OPA2703EA/250CT-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	4.52	3.62	2.82
OPA2703EA/250	OPA2703EA/250TR-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	668.25/250		
OPA2703PA	OPA2703PA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-Dip	4.32	3.46	2.69
OPA2703UA	OPA2703UA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	4.32	3.46	2.69
OPA2704EA/250	OPA2704EA/250CT-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	4.52	3.62	2.82
OPA2704EA/250	OPA2704EA/250TR-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	668.25/250		
OPA2704PA	OPA2704PA-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-Dip	4.32	3.46	2.69
OPA2704UA	OPA2704UA-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	4.32	3.46	2.69
OPA2705EA/250	OPA2705EA/250CT-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	2.10	1.68	1.26
OPA2705EA/250	OPA2705EA/250TR-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	294.00/250		
OPA2705PA	OPA2705PA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-Dip	2.10	1.68	1.26
OPA2705UA	OPA2705UA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	2.10	1.68	1.26
OPA2743EA/2K5	OPA2743EA/2K5CT-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	3.11	2.49	1.94
OPA2743EA/2K5	OPA2743EA/2K5TR-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	4347.50/2,500		
OPA2743PA	296-12726-5-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-Dip	3.11	2.49	1.94
OPA2743UA	296-12727-5-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	3.11	2.49	1.94
OPA2822E/250	296-12984-1-ND	Dual, Wideband, Low Noise Op Amp	8-MSOP	5.04	4.04	3.14
OPA2822E/250	296-12984-2-ND	Dual, Wideband, Low Noise Op Amp	8-MSOP	744.75/250		
OPA2822U	296-9623-5-ND	Dual, Wideband, Low Noise Op Amp	8-SOIC	4.61	3.69	2.87
OPA3355EA/250	OPA3355EA/250CT-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-TSSOP	4.05	3.24	2.52
OPA3355EA/250	OPA3355EA/250TR-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-TSSOP	598.50/250		
OPA3355UA	OPA3355UA-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	3.83	3.06	2.38
OPA3355UA/2K5	OPA3355UA/2K5CT-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	3.87	3.10	2.41
OPA3355UA/2K5	OPA3355UA/2K5TR-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	5417.50/2,500		
OPA3684ID	296-13646-5-ND	Low Power, Triple Current Feedback Op Amp with Disable	14-SOIC	5.54	4.43	3.45
OPA3684IDBQT	296-13647-1-ND	Low Power, Triple Current Feedback Op Amp with Disable	16-SSOP	5.12	4.10	3.46
OPA3684IDBQT	296-13647-2-ND	Low Power, Triple Current Feedback Op Amp with Disable	16-SSOP	800.00/250		
OPA3690ID	OPA3690ID-ND	Triple, Wideband, Voltage Feedback Op Amp	16-SOIC	6.06	4.85	4.10
OPA3690IDBQT	OPA3690IDBQTCT-ND	Triple, Wideband, Voltage Feedback Op Amp	16-SSOP	6.26	5.01	4.23
OPA3690IDBQT	OPA3690IDBQTTR-ND	Triple, Wideband, Voltage Feedback Op Amp	16-SSOP	1017.25/250		
OPA3691ID	OPA3691ID-ND	Triple, Wideband, Current Feedback Op Amp	16-SOP	5.98	4.79	4.04
OPA3691IDBQT	OPA3691IDBQT-ND	Triple, Wideband, Current Feedback Op Amp	16-SSOP	6.18	4.95	4.18
OPA3692ID	296-12603-5-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-SOIC	5.66	4.53	3.83
OPA3692IDBQT	296-12604-1-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-SSOP	5.86	4.69	3.96
OPA3692IDBQT	296-12604-2-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-SSOP	952.25/250		
OPA4130UA	OPA4130UA-ND	Quad, LP, Precision, FET-In Op Amp	14-SOIC	6.18	4.95	4.18
OPA4131NA	OPA4131NA-ND	Quad, General Purpose FET-Input Op Amp	14-SOIC	6.54	5.24	4.42
OPA4131NJ	OPA4131NJ-ND	Quad, General Purpose FET-Input Op Amp	14-SOIC	5.50	4.40	3.72
OPA4131PA	OPA4131PA-ND	Quad, General Purpose FET-Input Op Amp	14-Dip	6.54	5.24	4.42
OPA4131PJ	OPA4131PJ-ND	Quad, General Purpose, FET-Input Op Amp	14-Dip	5.50	4.40	3.72
OPA4131UA	OPA4131UA-ND	Quad, General Purpose FET-Input Op Amp	16-SOIC	6.54	5.24	4.42
OPA4132UA	OPA4132UA-ND	Quad, HS, FET-Input Op Amp	14-SOIC	8.18	6.55	5.53

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA4134UA	OPA4134UA-ND	Quad, High Performance Op Amp	14-SOIC	3.67	2.94	2.29
OPA4137P	OPA4137P-ND	Quad, FET-Input Op Amp	14-Dip	2.93	2.34	1.82
OPA4137PA	OPA4137PA-ND	Quad, FET-Input Op Amp	14-Dip	2.40	1.92	1.44
OPA4137U	OPA4137U-ND	Quad, FET-Input Op Amp	14-SOIC	2.93	2.34	1.82
OPA4137UA	OPA4137UA-ND	Quad, FET-Input Op Amp	14-SOIC	2.40	1.92	1.44
OPA4227PA	OPA4227PA-ND	Quad, High Precision Op Amp	14-Dip	7.30	5.84	4.93
OPA4227UA	OPA4227UA-ND	Quad, High Precision Op Amp	14-SOIC	7.30	5.84	4.93
OPA4228PA	OPA4228PA-ND	Quad, High Precision Op Amp	14-Dip	7.30	5.84	4.93
OPA4228UA	OPA4228UA-ND	Quad, High Precision Op Amp	14-SOIC	7.30	5.84	4.93
OPA4241PA	OPA4241PA-ND	Quad, Single-Supply µpower Op Amp	14-Dip	7.54	6.04	5.09
OPA4241UA	OPA4241UA-ND	Quad, Single-Supply µpower Op Amp	14-SOIC	7.54	6.04	5.09
OPA4243EA/250	OPA4243EACT-ND	Quad, Single Supply Op Amp	14-TSSOP	3.42	2.74	2.13
OPA4243EA/250	OPA4243EATR-ND	Quad, Single Supply Op Amp	14-TSSOP	505.50/250		
OPA4244EA/250	OPA4244EACT-ND	Single-Supply µpower Op Amp	14-TSSOP	3.20	2.56	1.99
OPA4244EA/250	OPA4244EATR-ND	Single-Supply µpower Op Amp	14-TSSOP	472.25/250		
OPA4251PA	OPA4251PA-ND	Quad, Single-Supply µpower Op Amp	14-Dip	7.54	6.04	5.09
OPA4251UA	OPA4251UA-ND	Quad, Single-Supply µpower Op Amp	14-SOIC	7.54	6.04	5.09
OPA4277PA	OPA4277PA-ND	Quad, High Precision Op Amp	14-Dip	6.92	5.54	4.68
OPA4277UA	OPA4277UA-ND	Quad, High Precision Op Amp	14-SOIC	6.92	5.54	4.68
OPA4234PA	OPA4234PA-ND	Quad, Low Power, Precision, Single-Supply Op Amp	14-Dip	5.56	4.45	3.76
OPA4234U	OPA4234U-ND	Quad, Low Power, Precision, Single-Supply Op Amp	14-SOIC	7.10	5.68	4.80
OPA4234UA	OPA4234UA-ND	Quad, Low Power, Precision, Single-Supply Op Amp	14-SOIC	6.22	4.98	4.20
OPA4336EA/250	OPA4336EACT-ND	Quad, Single-Supply, Micropower Op Amp	16-SSOP	3.71	2.97	2.31
OPA4336EA/250	OPA4336EATR-ND	Quad, Single-Supply, Micropower Op Amp	16-SSOP	548.75/250		
OPA4340EA/250	OPA4340EACT-ND	Quad, Single-Supply, R/R Op Amp	16-SSOP	4.75	3.80	2.96
OPA4340EA/250	OPA4340EATR-ND	Quad, Single-Supply, R/R Op Amp	16-SSOP	701.50/250		
OPA4340UA	OPA4340UA-ND	Quad, Single-Supply, R/R Op Amp	14-SOIC	4.52	3.62	2.82
OPA4342EA/250	OPA4342EACT-ND	Quad, Micropower R/R Op Amp	14-TSSOP	3.65	2.92	2.27
OPA4342EA/250	OPA4342EATR-ND	Quad, Micropower R/R Op Amp	14-TSSOP	538.75/250		
OPA4342PA	OPA4342PA-ND	Quad, Micropower R/R Op Amp	14-Dip	3.42	2.74	2.13
OPA4342UA	OPA4342UA-ND	Quad, Micropower R/R Op Amp	14-SOIC	3.42	2.74	2.13
OPA4343EA/250	OPA4343EACT-ND	Quad, Single-Supply Op Amp	16-SSOP	3.42	2.74	2.13
OPA4343EA/250	OPA4343EATR-ND	Quad, Single-Supply Op Amp	16-SSOP	505.50/250		
OPA4343NA/250	OPA4343NACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	3.42	2.74	2.13
OPA4343NA/250	OPA4343NATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	505.50/250		
OPA4343UA	OPA4343UA-ND	Quad, Single-Supply Op Amp	14-SOIC	3.22	2.58	2.01
OPA4344EA/250	OPA4344EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	4.21	3.37	2.62
OPA4344EA/250	OPA4344EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	621.75/250		
OPA4344PA	OPA4344PA-ND	Quad, Single-Supply Op Amp	14-Dip	4.01	3.21	2.50
OPA4344UA	OPA4344UA-ND	Quad, Single-Supply Op Amp	14-SOIC	4.01	3.21	2.50
OPA4345EA/250	OPA4345EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	4.32	3.46	2.69
OPA4345EA/250	OPA4345EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	621.75/250		
OPA4345UA	OPA4345UA-ND	Quad, Single-Supply Op Amp	14-SOIC	4.01	3.21	2.50
OPA4347EA/250	OPA4347EACT-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.43	1.95	1.73
OPA4347EA/250	OPA4347EATR-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	378.00/250		
OPA4347UA	OPA4347UA-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.48	1.98	1.49
OPA4347UA/2K5	OPA4347UATR-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3232.50/2,500		
OPA4348AID	296-12277-5-ND	1MHz, Quad, R/R, I/O Op Amp	14-SOIC	2.25	1.80	1.40
OPA4348AIPWT	296-12278-1-ND	1MHz, Quad, R/R, I/O Op Amp	14-TSSOP	2.25	1.80	1.40
OPA4348AIPWT	296-12278-2-ND	1MHz, Quad, R/R, I/O Op Amp	14-TSSOP	332.50/250		
OPA4350EA/250	OPA4350EACT-ND	High-Speed CMOS Op Amp (35MHz)	16-SSOP	7.60	6.08	5.13
OPA4350EA/250	OPA4350EATR-ND	High-Speed CMOS Op Amp (35MHz)	16-SSOP	1235.00/250		
OPA4350UA	OPA4350UA-ND	High-Speed CMOS Op Amp (35MHz)	14-SOIC	7.42	5.94	5.01
OPA4353EA/250	OPA4353EACT-ND	Low Cost, HS CMOS Op Amp	16-SSOP	5.27	4.22	3.28
OPA4353EA/250	OPA4353EATR-ND	Low Cost, HS CMOS Op Amp	16-SSOP	778.05/250		
OPA4353UA	OPA4353UA-ND	Low Cost, HS CMOS Op Amp	14-SOIC	5.04	4.04	3.14
OPA4354AIDR	296-12643-1-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-SOIC	3.65	2.92	2.27
OPA4354AIDR	296-12643-2-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-SOIC	5102.50/2,500		
OPA4354AIPWR	296-12644-1-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-TSSOP	3.65	2.92	2.27
OPA4354AIPWR	296-12644-2-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-TSSOP	5102.50/2,500		
OPA4364AID	296-14629-5-ND	1.8V, 7MHz, Single-Supply R/R Op Amp *NEW!*	14-SOIC	2.81	2.25	1.75
OPA4364AIPWT	296-14630-1-ND	1.8V, 7MHz, Single-Supply R/R Op Amp *NEW!*	14-TSSOP	2.81	2.25	1.75
OPA4364AIPWT	296-14630-2-ND	1.8V, 7MHz, Single-Supply R/R Op Amp *NEW!*	14-TSSOP	415.75/250		
OPA4650U	OPA4650U-ND	Quad, Wideband, LP Voltage Feedback Op Amp	14-SOIC	9.16	7.33	6.19
OPA4684ID	296-13648-5-ND	Quad, Low Power, Current-Feedback Op Amp	14-SOIC	5.98	4.79	4.04
OPA4684IPWT	296-13649-1-ND	Quad, Low Power, Current-Feedback Op Amp	14-TSSOP	6.18	4.95	4.18
OPA4684IPWT	296-13649-2-ND	Quad, Low Power, Current-Feedback Op Amp	14-TSSOP	965.75/250		
OPA4703EA/2K5	OPA4703EA/2K5CT-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	7.34	5.88	4.96
OPA4703EA/2K5	OPA4703EA/2K5TR-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	11377.50/2,500		
OPA4703UA	OPA4703UA-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	7.30	5.84	4.93
OPA4704EA/2K5	OPA4704EA/2K5CT-ND	3MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	7.34	5.88	4.96
OPA4704EA/2K5	OPA4704EA/2K5TR-ND	3MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	11377.50/2,500		
OPA4704UA	OPA4704UA-ND	3MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	7.30	5.84	4.93
OPA4705EA/2K5	OPA4705EA/2K5CT-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	3.20	2.56	1.99
OPA4705EA/2K5	OPA4705EA/2K5TR-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	4472.50/2,500		
OPA4705UA	OPA4705UA-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	3.20	2.56	1.99
OPA4743EA/250	OPA4743EA/250CT-ND	7MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	4.73	3.78	2.94
OPA4743EA/250	OPA4743EA/250TR-ND	7MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	698.25/250		
OPA4743UA	296-12205-5-ND	12V, Quad, High Speed, R-R, I/O Op Amp	14-SOIC	4.73	3.78	2.94
PGA103U	PGA103U-ND	Programmable Gain Amp	8-SOIC	7.50	6.00	5.07
PGA202KP	PGA202KP-ND	Digitally Controlled Programmable-Gain Op Amp	14-Dip	11.66	10.50	9.31
PGA203KP	PGA203KP-ND	Digitally Controlled Programmable-Gain Op Amp	14-Dip	11.66	10.50	9.31
PGA204AP	PGA204AP-ND	Programmable Gain Instrumentation Amp	16-Dip	10.93	9.84	8.73
PGA204AU	PGA204AU-ND	Programmable Gain Instrumentation Amp	16-SOIC	10.93	9.84	8.73
PGA204BP	PGA204BP-ND	Programmable Gain Instrumentation Amp	16-Dip	15.16	13.65	12.11
PGA204BU	PGA204BU-ND	Programmable Gain Instrumentation Amp	16-SOIC	15.16	13.65	12.11
PGA205AP	PGA205AP-ND	Programmable Gain Instrumentation Amp	16-Dip	10.93	9.84	8.73
PGA205AU	PGA205AU-ND	Programmable Gain Instrumentation Amp	16-SOIC(.3")	10.93	9.84	8.73
PGA205BP	PGA205BP-ND	Programmable Gain Instrumentation Amp	16-Dip	15.16	13.65	12.11
PGA205BU	PGA205BU-ND	Programmable Gain Instrumentation Amp	16-SOIC	15.16	13.65	12.11
PGA206UA	PGA206UA-ND	High Speed Programmable Gain Instrumentation Amp	16-SOIC	16.23	14.61	12.96
PGA2310UA	296-12255-5-ND	High Performance Stereo Audio Volume Control	16-SOIC	14.16	12.75	11.31
PGA2311P	PGA2311P-ND	5V, High Performance Stereo Audio Volume Control	16-Dip	9.40	7.52	6.35
PGA2311PA	PGA2311PA-ND	5V, High Performance Stereo Audio Volume Control	16-Dip	9.40	8.46	7.51
PGA2311U	PGA2311U-ND	5V, High Performance Stereo Audio Volume Control	16-SOIC	9.40	7.52	6.35
PGA2311UA	PGA2311UA-ND	5V, High Performance Stereo Audio Volume Control	16-SOIC	9.40	8.46	7.51
RC4136N	296-9649-5-ND	Quad General Purpose Op Amp	14-Dip	1.20	1.00	.80
RC4558D	296-9650-5-ND	Dual General Purpose Op Amp	8-SOIC	.64	.48	.36
RC4558DR	296-14634-1-ND	Dual General Purpose Op Amp *NEW!*	8-SOIC	.64	.48	.36
RC4558DR	296-14634-2-ND	Dual General Purpose Op Amp *NEW!*	8-SOIC	520.00/2,500		
RC4558P	296-1414-5-ND	Dual General Purpose Op Amp	8-Dip	.64	.48	.36
RC4558PSR	296-9651-1-ND	Dual General Purpose Op Amp	8-SOP	.64	.48	.36
RC4558PSR	296-9651-2-ND	Dual General Purpose Op Amp	8-SOP	426.00/2,000		
RC4558PWR	296-13789-1-ND	Dual General Purpose Op Amp	8-TSSOP	.64	.48	.36
RC4558PWR	296-13789-2-ND	Dual General Purpose Op Amp	8-TSSOP	426.00/2,000		
RC4559P	296-9652-5-ND	Dual High Performance Op Amp	8-Dip	.88	.66	.50
SN75207BN	296-9910-5-ND	Dual High Sensitivity Line Receiver	14-Dip	2.75	2.20	1.71
TAS5015PFB	296-12995-5-ND	True Digital Audio Amp TAS5015 Digital Audio PWM Processor	48-TQFP	32.07	29.94	27.80
TAS5100ADAP	296-12744-5-ND	Digital Audio PWM Amplifier	32-HTSSOP	5.38	4.31	3.64
TAS5101DAP	296-13044-5-ND	Stereo Digital Amplifier Power Stage	32-HTSSOP	5.88	4.71	3.97
TAS5110DAD	296-12996-5-ND	True Digital Audio Amp TAS5110 PWM Power Output Stage	32-HTSSOP	5.46	4.37	3.69
TAS5110DAP	296-12997-5-ND	True Digital Audio Amp TAS5110 PWM Power Output Stage	32-HTSSOP	5.46	4.37	3.69
THS3001CD	296-1762-5-ND	420MHz Current-Feedback Op Amp	8-SOIC	5.80	4.64	3.92
THS3001ID	296-7507-5-ND	420MHz Current-Feedback Op Amp	8-SOIC	5.98	4.79	4.04
THS3001IDGNR	296-12006-1-ND	420MHz Current-Feedback Op Amp	8-MSOP	5.98	4.79	4.04
THS3001IDGNR	296-12006-2-ND	420MHz Current-Feedback Op Amp	8-MSOP	9270.00/2,500		
THS3061D	296-13502-5-ND	Single, Low Distortion, High Slew-Rate Current-Feedback Amplifier	8-SOIC	5.60	4.48	3.78
THS3061DGN	296-13613-5-ND	Single, Low Distortion, High Slew-Rate, Current-Feedback Amplifier	8-MSOP	5.60	4.48	3.78
THS3062D	296-13821-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amplifier *NEW!*	8-SOIC	8.08	6.47	5.46
THS3062DDA	296-13503-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amplifier	8-SOIC	8.08	6.47	5.46
THS3062DGN	296-13614-5-ND	Dual, Low Distortion, High Slew-Rate, Current-Feedback Amplifier	8-MSOP	8.08	6.47	5.46
THS3112ID	296-13333-5-ND	Low Noise, High Speed Current-Feedback Amp	8-SOIC	5.94	4.76	4.01
THS3112IDDAR	296-13334-1-ND	Low Noise, High Speed Current-Feedback Amp	8-SOIC	5.94	4.76	4.01
THS3112IDDAR	296-13334-2-ND	Low Noise, High Speed Current-Feedback Amp	8-SOIC	9207.50/2,500		
THS3115ID	296-13335-5-ND	Low Noise, High Speed Current-Feedback Amp	14-SOIC	5.94	4.76	4.01
THS3115IPWP	296-13336-5-ND	Low Noise, High Speed Current-Feedback Amp	14-TSSOP	5.94	4.76	4.01
THS3122ID	296-13337-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	7.30	5.84	4.93
THS3122IDDAR	296-13338-1-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	7.30	5.84	4.93
THS3122IDDAR	296-13338-2-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	11315.00/2,500		
THS3125ID	296-13339-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	14-SOIC	7.30	5.84	4.93
THS3125IPWP	296-13340-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	14-TSSOP	7.30	5.84	4.93
THS3202D	296-13655-5-ND	2GHz Current-Feedback Amp	8-SOIC	5.50	4.40	3.72
THS3202DGN	296-13656-5-ND	2GHz Current-Feedback Amp	8-MSOP	5.50	4.40	3.72
THS4001CD	296-1763-5-ND	High Speed Low Power Op Amp	8-SOIC	4.25	3.41	2.65
THS4001ID	296-1764-5-ND	High Speed Low Power Op Amp	8-SOIC	4.48	3.59	2.79
THS4011CD	296-2404-5-ND	290MHz High Speed Amp	8-SOIC	4.84	3.87	3.01
THS4011CDGNR	296-7508-1-ND	290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	4.84	3.87	3.01
THS4011CDGNR	296-7508-2-ND	290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	6772.50/2,500		
THS4011ID	296-7509-5-ND	290MHz Low-Distortion V-Feedback Op Amp	8-SOIC	5.04	4.04	3.14
THS4011IDGNR	296-7510-1-ND	290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	5.04	4.04	3.14

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
THS4011IDGNR	296-7510-2-ND	290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	7055.00/2,500		
THS4012CD	296-7511-5-ND	Dual 290MHz Low-Distortion V-Feedback Op Amp	8-SOIC	7.14	5.72	4.82
THS4012CDGN	296-10023-5-ND	Dual 290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	7.14	5.72	4.82
THS4012CDGNR	296-10023-1-ND	Dual 290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	7.14	5.72	4.82
THS4012CDGNR	296-10023-2-ND	Dual 290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	11067.50/2,500		
THS4012ID	296-7513-5-ND	Dual 290MHz Low-Distortion V-Feedback Op Amp	8-SOIC	7.34	5.88	4.96
THS4012IDGN	296-10025-5-ND	Dual 290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	7.34	5.88	4.96
THS4012IDGNR	296-10025-1-ND	Dual 290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	7.34	5.88	4.96
THS4012IDGNR	296-10025-2-ND	Dual 290MHz Low-Distortion V-Feedback Op Amp	8-MSOP	11377.50/2,500		
THS4021CD	296-2405-5-ND	350MHz Ultra-Low Noise V-Feedback Op Amp	8-SOIC	4.61	3.69	2.87
THS4021CDGN	296-10026-5-ND	350MHz Ultra-Low Noise V-Feedback Op Amp	8-MSOP	4.61	3.69	2.87
THS4021CDGNR	296-10026-1-ND	350MHz Ultra-Low Noise V-Feedback Op Amp	8-MSOP	4.61	3.69	2.87
THS4021CDGNR	296-10026-2-ND	350MHz Ultra-Low Noise V-Feedback Op Amp	8-MSOP	6457.50/2,500		
THS4021ID	296-7516-5-ND	350MHz Ultra-Low Noise V-Feedback Op Amp	8-SOIC	4.84	3.87	3.01
THS4021IDGNR	296-7517-1-ND	350MHz Ultra-Low Noise V-Feedback Op Amp	8-MSOP	4.84	3.87	3.01
THS4021IDGNR	296-7517-2-ND	350MHz Ultra-Low Noise V-Feedback Op Amp	8-MSOP	6772.50/2,500		
THS4022CDGNR	296-7518-1-ND	Dual 350MHz Low-Noise V-Feedback Op Amp	8-MSOP	6.86	5.49	4.64
THS4022CDGNR	296-7518-2-ND	Dual 350MHz Low-Noise V-Feedback Op Amp	8-MSOP	10632.50/2,500		
THS4022ID	296-7519-5-ND	Dual 350MHz Low Noise V-Feedback Op Amp	8-SOIC	7.04	5.64	4.76
THS4022IDGNR	296-7520-1-ND	Dual 350MHz Low-Noise V-Feedback Op Amp	8-MSOP	7.04	5.64	4.76
THS4022IDGNR	296-7520-2-ND	Dual 350MHz Low-Noise V-Feedback Op Amp	8-MSOP	10912.50/2,500		
THS4031CD	296-2406-5-ND	100MHz Low Noise V-Fdbk. Op Amp	8-SOIC	4.19	3.35	2.61
THS4031CDGNR	296-7521-1-ND	100MHz Low Noise V-Fdbk. Op Amp	8-MSOP	4.19	3.35	2.61
THS4031CDGNR	296-7521-2-ND	100MHz Low Noise V-Fdbk. Op Amp	8-MSOP	5860.00/2,500		
THS4031ID	296-7522-5-ND	100MHz Low Noise V-Fdbk. Op Amp	8-SOIC	4.41	3.53	2.75
THS4031IDGN	296-10030-5-ND	100MHz Low Noise V-Fdbk. Op Amp	8-MSOP	4.41	3.53	2.75
THS4031IDGNR	296-10030-1-ND	100MHz Low Noise V-Fdbk. Op Amp	8-MSOP	4.41	3.53	2.75
THS4031IDGNR	296-10030-2-ND	100MHz Low Noise V-Fdbk. Op Amp	8-MSOP	6175.00/2,500		
THS4032CD	296-7524-5-ND	Dual 100MHz Low Noise V-Feedback Op Amp	8-SOIC	6.34	5.08	4.28
THS4032ID	296-7525-5-ND	Dual 100MHz Low Noise V-Feedback Op Amp	8-SOIC	6.54	5.24	4.42
THS4032IDGNR	296-7526-1-ND	Dual 100MHz Low Noise V-Feedback Op Amp	8-MSOP	6.54	5.24	4.42
THS4032IDGNR	296-7526-2-ND	Dual 100MHz Low Noise V-Feedback Op Amp	8-MSOP	10137.50/2,500		
THS4041CD	296-2407-5-ND	165MHz Capacitive-Stable V-Feedback Op Amp	8-SOIC	3.47	2.78	2.16
THS4041CDGNR	296-7527-1-ND	165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	3.47	2.78	2.16
THS4041CDGNR	296-7527-2-ND	165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	4850.00/2,500		
THS4041ID	296-7528-5-ND	165MHz Capacitive-Stable V-Feedback Op Amp	8-SOIC	3.67	2.94	2.29
THS4041IDGN	296-10033-5-ND	165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	3.67	2.94	2.29
THS4041IDGNR	296-10033-1-ND	165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	3.67	2.94	2.29
THS4041IDGNR	296-10033-2-ND	165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	5135.00/2,500		
THS4042CD	296-7530-5-ND	Dual 165MHz Capacitive-Stable V-Feedback Op Amp	8-SOIC	6.12	4.90	4.14
THS4042CDGNR	296-7531-1-ND	Dual 165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	6.12	4.90	4.14
THS4042CDGNR	296-7531-2-ND	Dual 165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	9485.00/2,500		
THS4042ID	296-7532-5-ND	Dual 165MHz Capacitive-Stable V-Feedback Op Amp	8-SOIC	6.30	5.04	4.26
THS4042IDGNR	296-7533-1-ND	Dual 165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	6.30	5.04	4.26
THS4042IDGNR	296-7533-2-ND	Dual 165MHz Capacitive-Stable V-Feedback Op Amp	8-MSOP	9765.00/2,500		
THS4051CD	296-2408-5-ND	70MHz High Speed Amp	8-SOIC	2.32	1.86	1.45
THS4051CDGNR	296-7534-1-ND	70MHz V-Feedback Op Amp	8-MSOP	2.32	1.86	1.45
THS4051CDGNR	296-7534-2-ND	70MHz V-Feedback Op Amp	8-MSOP	3245.00/2,500		
THS4051ID	296-7535-5-ND	70MHz V-Feedback Op Amp	8-SOIC	2.52	2.02	1.57
THS4051IDGNR	296-7536-1-ND	70MHz V-Feedback Op Amp	8-MSOP	2.52	2.02	1.57
THS4051IDGNR	296-7536-2-ND	70MHz V-Feedback Op Amp	8-MSOP	3527.50/2,500		
THS4052CD	296-7537-5-ND	Dual 70MHz V-Feedback Op Amp	8-SOIC	3.02	2.42	1.88
THS4052CDGNR	296-7538-1-ND	Dual 70MHz V-Feedback Op Amp	8-MSOP	3.02	2.42	1.88
THS4052CDGNR	296-7538-2-ND	Dual 70MHz V-Feedback Op Amp	8-MSOP	4220.00/2,500		
THS4052ID	296-7539-5-ND	Dual 70MHz V-Feedback Op Amp	8-SOIC	3.22	2.58	2.01
THS4052IDGNR	296-7540-1-ND	Dual 70MHz V-Feedback Op Amp	8-MSOP	3.22	2.58	2.01
THS4052IDGNR	296-7540-2-ND	Dual 70MHz V-Feedback Op Amp	8-MSOP	4505.00/2,500		
THS4061CD	296-2409-5-ND	180MHz High Speed Voltage Feedback Amp	8-SOIC	2.93	2.34	1.82
THS4061CDGNR	296-13341-1-ND	180MHz High Speed Voltage Feedback Amp	8-MSOP	2.93	2.34	1.82
THS4061CDGNR	296-13341-2-ND	180MHz High Speed Voltage Feedback Amp	8-MSOP	4095.00/2,500		
THS4061ID	296-7541-5-ND	180MHz High Speed Voltage Feedback Amp	8-SOIC	3.15	2.52	1.96
THS4061IDGNR	296-13342-1-ND	180MHz High Speed Voltage Feedback Amp	8-MSOP	3.15	2.52	1.96
THS4061IDGNR	296-13342-2-ND	180MHz High Speed Voltage Feedback Amp	8-MSOP	4410.00/2,500		
THS4062CD	296-7542-5-ND	Dual 180MHz V-Feedback Op Amp	8-SOIC	4.14	3.32	2.58
THS4062CDGN	296-7543-5-ND	Dual 180MHz V-Feedback Op Amp	8-MSOP	4.14	3.32	2.58
THS4062ID	296-7544-5-ND	Dual 180MHz V-Feedback Op Amp	8-SOIC	4.37	3.50	2.72
THS4062IDGN	296-7545-5-ND	Dual 180MHz V-Feedback Op Amp	8-MSOP	4.37	3.50	2.72
THS4062IDGNR	296-7546-1-ND	Dual 180MHz V-Feedback Op Amp	8-MSOP	4.37	3.50	2.72
THS4062IDGNR	296-7546-2-ND	Dual 180MHz V-Feedback Op Amp	8-MSOP	6110.00/2,500		
THS4081CD	296-2410-5-ND	175MHz LP V-Feedback Op Amp	8-SOIC	3.76	3.01	2.34
THS4081CDGNR	296-7547-1-ND	175MHz LP V-Feedback Op Amp	8-MSOP	3.76	3.01	2.34
THS4081CDGNR	296-7547-2-ND	175MHz LP V-Feedback Op Amp	8-MSOP	5260.00/2,500		
THS4081ID	296-7548-5-ND	175MHz LP V-Feedback Op Amp	8-SOIC	3.98	3.19	2.48
THS4081IDGN	296-10039-5-ND	175MHz LP V-Feedback Op Amp	8-MSOP	3.98	3.19	2.48
THS4081IDGNR	296-10039-1-ND	175MHz LP V-Feedback Op Amp	8-MSOP	3.98	3.19	2.48
THS4081IDGNR	296-10039-2-ND	175MHz LP V-Feedback Op Amp	8-MSOP	5575.00/2,500		
THS4082CD	296-7550-5-ND	Dual 175MHz LP V-Feedback Op Amp	8-SOIC	5.56	4.45	3.76
THS4082CDGNR	296-7551-1-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	5.56	4.45	3.76
THS4082CDGNR	296-7551-2-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	8617.50/2,500		
THS4082ID	296-7552-5-ND	Dual 175MHz LP V-Feedback Op Amp	8-SOIC	5.76	4.61	3.89
THS4082IDGNR	296-7553-1-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	5.76	4.61	3.89
THS4082IDGNR	296-7553-2-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	8927.50/2,500		
THS4120ID	296-11983-5-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	4.03	3.23	2.51
THS4120IDGNR	296-12493-5-ND	High Speed Fully Differential I/O CMOS Amp	8-MSOP	4.03	3.23	2.51
THS4120IDR	296-11983-1-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	4.03	3.23	2.51
THS4120IDR	296-11983-2-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	5637.50/2,500		
THS4121CD	296-10041-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-SOIC	3.80	3.05	2.37
THS4121ID	296-10042-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-SOIC	4.03	3.23	2.51
THS4121IDGNR	296-13343-1-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	4.03	3.23	2.51
THS4121IDGNR	296-13343-2-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	5637.50/2,500		
THS4130ID	296-7554-5-ND	HS, Low Noise Differential I/O Amp	8-SOIC	6.50	5.20	4.39
THS4130IDGNR	296-10044-1-ND	HS, Low Noise Differential I/O Amp	8-MSOP	6.50	5.20	4.39
THS4130IDGNR	296-10044-2-ND	HS, Low Noise Differential I/O Amp	8-MSOP	10075.00/2,500		
THS4131ID	296-10046-5-ND	150MHz Fully Differential I/O Amp	8-SOIC	6.50	5.20	4.39
THS4131IDGNR	296-10047-1-ND	150MHz Fully Differential I/O Amp	8-MSOP	6.50	5.20	4.39
THS4131IDGNR	296-10047-2-ND	150MHz Fully Differential I/O Amp	8-MSOP	10075.00/2,500		
THS4140ID	296-7555-5-ND	Diff. In/Out Op Amp with Shutdown	8-SOIC	6.30	5.04	4.26
THS4140IDGNR	296-10049-1-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	6.30	5.04	4.26
THS4140IDGNR	296-10049-2-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	9765.00/2,500		
THS4141ID	296-7556-5-ND	High Speed Fully Diff. I/O Amp	8-SOIC	6.30	5.04	4.26
THS4141IDGNR	296-12302-1-ND	High Speed Fully Diff. I/O Amp	8-MSOP	6.30	5.04	4.26
THS4141IDGNR	296-12302-2-ND	High Speed Fully Diff. I/O Amp	8-MSOP	9765.00/2,500		
THS4150ID	296-10052-5-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-SOIC	8.64	6.92	5.84
THS4150IDGNR	296-13344-1-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-MSOP	8.64	6.92	5.84
THS4150IDGNR	296-13344-2-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-MSOP	13392.502,500		
THS4151ID	296-10054-5-ND	High Speed Fully Diff. I/O Op Amp	8-SOIC	8.64	6.92	5.84
THS4151IDGNR	296-12303-1-ND	High Speed Fully Diff. I/O Op Amp	8-HTSSOP	8.64	6.92	5.84
THS4151IDGNR	296-12303-2-ND	High Speed Fully Diff. I/O Op Amp	8-HTSSOP	13392.50/2,500		
THS4211D	296-13790-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SOIC	3.83	3.06	2.38
THS4211DGN	296-13657-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	3.83	3.06	2.38
THS4215D	296-13791-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SOIC	3.83	3.06	2.38
THS4215DGN	296-13658-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	3.83	3.06	2.38
THS4221D	296-14194-5-ND	Low Distortion, High Speed, R/R, Output Op Amp *NEW!*	8-SOIC	2.88	2.31	1.80
THS4221DGN	296-14402-5-ND	Low Distortion, High Speed, R/R, Output Op Amp *NEW!*	8-HTSSOP	2.88	2.31	1.80
THS4222D	296-13822-5-ND	Low Distortion, High Speed, R/R, Output Op Amp *NEW!*	8-SOIC	3.83	3.06	2.38
THS4222DGN	296-13638-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	3.83	3.06	2.38
THS4225D	296-14195-5-ND	Low Distortion, High Speed, R/R, Output Op Amp *NEW!*	8-SOIC	2.88	2.31	1.80
THS4225DGN	296-14403-5-ND	Low Distortion, High Speed, R/R, Output Op Amp *NEW!*	8-HTSSOP	2.88	2.31	1.80
THS4226DGQ	296-13639-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	3.83	3.06	2.38
THS4271D	296-13823-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp *NEW!*	8-SOIC	5.12	4.10	3.46
THS4271DGN	296-13659-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.12	4.10	3.46
THS4275D	296-13824-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp *NEW!*	8-SOIC	5.12	4.10	3.46
THS4275DGN	296-13660-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.12	4.10	3.46
THS4302RGTR	296-14048-1-ND	Wideband Fixed-Gain Amp *NEW!*	16-RGT	4.21	3.37	2.62
THS4302RGTR	296-14048-2-ND	Wideband Fixed-Gain Amp *NEW!*	16-RGT	7068.00/3,000		
THS4500ID	296-12935-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	6.74	5.40	4.55
THS4500IDGN	296-13045-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	6.74	5.40	4.55
THS4501IDGN	296-13046-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	6.74	5.40	4.55
THS4501ID	296-12936-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	6.74	5.40	4.55
THS4502ID	296-12937-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	7.36	5.89	4.97

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS4502IDGN	296-13047-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	7.36	5.89	4.97
THS4503ID	296-12938-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	7.36	5.89	4.97
THS4503IDGN	296-13048-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	7.36	5.89	4.97
THS4601D	296-12495-5-ND	Wideband, FET-Input High Speed Op Amp	8-SOIC	15.91	14.33	12.71
THS6062CDGN	296-10068-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	4.73	3.78	2.94
THS6062CDGNR	296-10068-1-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	4.77	3.82	2.97
THS6062CDGNR	296-10068-2-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	6677.50/2,500		
THS6062ID	296-10070-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-SOIC	4.73	3.78	2.94
THS6062IDGN	296-10072-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	4.73	3.78	2.94
THS6062IDGNR	296-10072-1-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	4.77	3.82	2.97
THS6062IDGNR	296-10072-2-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	6677.50/2,500		
THS6072CDGNR	296-10073-1-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	4.77	3.82	2.97
THS6072CDGNR	296-10073-2-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	6677.50/2,500		
THS6072ID	296-10075-5-ND	High Speed, Low Power ADSL Differential Receiver	8-SOIC	4.73	3.78	2.94
THS6072IDGNR	296-10076-1-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	4.77	3.82	2.97
THS6072IDGNR	296-10076-2-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	6677.50/2,500		
THS6182PWP	296-14196-5-ND	Low Power ADSL Line Driver *NEW!*	20-HTSSOP	6.94	5.56	4.69
THS7001CPWP	296-2411-5-ND	70MHz, HS Prog. Gain Amp	20-HTSSOP	6.88	5.51	4.65
THS7001IPWP	296-7048-5-ND	70MHz, HS Prog. Gain Amp	20-HTSSOP	6.88	5.51	4.65
THS7002CPWP	296-2412-5-ND	Dual, 70MHz, HS Programmable Gain Amp	28-HTSSOP	9.03	8.13	7.21
THS7002IPWP	296-7049-5-ND	Dual, 70MHz, HS Programmable Gain Amp	28-HTSSOP	9.03	8.13	7.21
TL022CP	296-7142-5-ND	Dual, Low Power Op Amp	8-Dip	1.70	1.36	1.02
TL026CD	296-11818-5-ND	Differential High Frequency Amplifier with AGC	8-SOIC	1.33	1.06	.80
TL026CP	296-11819-5-ND	Differential High Frequency Amplifier with AGC	8-Dip	1.33	1.06	.80
TL031CD	296-7143-5-ND	Precision LP JFET Op Amp	8-SOIC	.87	.73	.58
TL031CP	296-7144-5-ND	Precision LP JFET Op Amp	8-Dip	.87	.73	.58
TL032ACD	296-7145-5-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2.36	1.89	1.47
TL032ACP	296-7146-5-ND	Dual LP Enhanced JFET Op Amp	8-Dip	2.36	1.89	1.47
TL032AID	296-12939-5-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2.48	1.98	1.54
TL032AIP	296-7147-5-ND	Dual LP Enhanced JFET Op Amp	8-Dip	2.48	1.98	1.54
TL032CD	296-7148-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.26	1.05	.84
TL032CDR	296-7148-1-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.26	1.05	.84
TL032CDR	296-7148-2-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1365.00/2,500		
TL032CP	296-7149-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-Dip	1.26	1.05	.84
TL032ID	296-7150-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.44	1.20	.96
TL032IP	296-7151-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-Dip	1.44	1.20	.96
TL034ACD	296-7152-5-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-SOIC	4.28	3.42	2.66
TL034AID	296-7153-5-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-SOIC	4.57	3.66	2.85
TL034AIDR	296-7153-1-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-SOIC	4.57	3.66	2.85
TL034AIDR	296-7153-2-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-SOIC	6395.00/2,500		
TL034CD	296-7154-5-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-SOIC	1.65	1.32	.99
TL034CN	296-7155-5-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-Dip	1.65	1.32	.99
TL034CNSR	296-13346-1-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-SOP	1.65	1.32	.99
TL034CNSR	296-13346-2-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-SOP	1716.00/2,000		
TL034ID	296-7157-5-ND	Quad Enhanced J-Fet Low Power Low Offset Op Amp	14-SOP	1.25	1.00	.75
TL051CD	296-7159-5-ND	Precision Enhanced JFET Op Amp	8-SOIC	1.26	1.05	.84
TL052ACD	296-7160-5-ND	Dual Enhanced J-Fet Low Offset Op Amp	8-SOIC	3.83	3.06	2.38
TL052ACP	296-7161-5-ND	Dual Enhanced J-Fet Low Offset Op Amp	8-Dip	3.83	3.06	2.38
TL052CD	296-7162-5-ND	Dual Enhanced J-Fet Low Offset Op Amp	8-SOIC	1.65	1.32	.99
TL052CP	296-7163-5-ND	Dual Enhanced J-Fet Low Offset Op Amp	8-Dip	1.65	1.32	.99
TL052CPSR	296-13347-1-ND	Dual Enhanced J-Fet Low Offset Op Amp	8-SOP	1.65	1.32	.99
TL052CPSR	296-13347-2-ND	Dual Enhanced J-Fet Low Offset Op Amp	8-SOP	1716.00/2,000		
TL052ID	296-7164-5-ND	Dual Enhanced J-Fet Low Offset Op Amp	8-SOIC	1.75	1.40	1.05
TL054ACD	296-7165-5-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-SOIC	5.40	4.32	3.65
TL054ACN	296-7166-5-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-Dip	5.40	4.32	3.65
TL054AIDR	296-7167-1-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-SOIC	6.12	4.90	4.14
TL054AIDR	296-7167-2-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-SOIC	9485.00/2,500		
TL054CD	296-7168-5-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-SOIC	1.80	1.44	1.08
TL054CN	296-7169-5-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-Dip	1.80	1.44	1.08
TL054CNSR	296-13348-1-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-SOP	1.80	1.44	1.08
TL054CNSR	296-13348-2-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-SOP	1872.00/2,000		
TL054IN	296-12940-5-ND	Quad Enhanced J-Fet Low Offset Op Amp	14-Dip	2.03	1.62	1.22
TL061ACD	296-7171-5-ND	Low Power JFET Op Amp	8-SOIC	.75	.63	.50
TL061ACP	296-7172-5-ND	Low Power JFET Op Amp	8-Dip	.75	.63	.50
TL061CD	296-12941-5-ND	Low Power JFET Op Amp	8-SOIC	.56	.42	.32
TL061CP	296-12942-5-ND	Low Power JFET Op Amp	8-Dip	.56	.42	.32
TL061ID	296-7173-5-ND	Low Power JFET Op Amp	8-SOIC	.96	.72	.54
TL061IP	296-7174-5-ND	Low Power JFET Op Amp	8-Dip	.96	.72	.54
TL062ACD	296-7175-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.80	.60	.45
TL062ACP	296-12943-5-ND	Dual Low Power JFET Op Amp	8-Dip	.80	.60	.45
TL062BCD	296-12944-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.96	.80	.64
TL062BCP	296-7176-5-ND	Dual Low Power JFET Op Amp	8-Dip	.96	.80	.64
TL062CD	296-1281-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.56	.42	.32
TL062CDR	296-1281-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.56	.42	.32
TL062CDR	296-1281-2-ND	Dual Low Power JFET Op Amp	8-SOIC	455.00/2,500		
TL062CP	296-1771-5-ND	Dual Low Power JFET Op Amp	8-Dip	.56	.42	.32
TL062CPWR	296-7178-1-ND	Dual Low Power JFET Op Amp	8-TSSOP	.56	.42	.32
TL062CPWR	296-7178-2-ND	Dual Low Power JFET Op Amp	8-TSSOP	372.00/2,000		
TL062ID	296-7179-5-ND	Dual Low Power JFET Op Amp	8-SOP	.72	.54	.41
TL062IP	296-12945-5-ND	Dual Low Power JFET Op Amp	8-Dip	.72	.54	.41
TL064ACD	296-7180-5-ND	Quad Low Power JFET Op Amp	14-SOP	.75	.63	.50
TL064ACN	296-13014-5-ND	Quad Low Power JFET Op Amp	14-Dip	.75	.63	.50
TL064BCD	296-7181-5-ND	Quad Low Power JFET Op Amp	14-SOP	1.47	1.23	.98
TL064BCN	296-12946-5-ND	Quad Low Power JFET Op Amp	14-Dip	1.47	1.23	.98
TL064CD	296-1772-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.68	.51	.39
TL064CN	296-1773-5-ND	Quad Low Power JFET Op Amp	14-Dip	.68	.51	.39
TL064CPWR	296-7182-1-ND	Quad Low Power JFET Op Amp	14-TSSOP	.68	.51	.39
TL064CPWR	296-7182-2-ND	Quad Low Power JFET Op Amp	14-TSSOP	452.00/2,000		
TL064ID	296-7183-5-ND	Quad Low Power JFET Op Amp	14-SOP	.76	.57	.43
TL064IN	296-7184-5-ND	Quad Low Power JFET Op Amp	14-Dip	.76	.57	.43
TL071ACP	296-7185-5-ND	Low Noise JFET Op Amp	8-Dip	.80	.60	.45
TL071CD	296-12947-5-ND	Low Noise JFET Op Amp	8-SOIC	.56	.42	.32
TL071CP	296-7186-5-ND	Low Noise JFET Op Amp	8-Dip	.56	.42	.32
TL071ID	296-7187-5-ND	Low Noise JFET Op Amp	8-SOIC	.92	.69	.52
TL071IP	296-7188-5-ND	Low Noise JFET Op Amp	8-Dip	.92	.69	.52
TL072ACD	296-7189-5-ND	Low Noise JFET Op Amp	8-SOIC	.64	.48	.36
TL072ACP	296-7190-5-ND	Low Noise JFET Op Amp	8-Dip	.64	.48	.36
TL072BCD	296-7191-5-ND	Low Noise JFET Op Amp	8-SOIC	.75	.63	.50
TL072BCP	296-7192-5-ND	Low Noise JFET Op Amp	8-Dip	.75	.63	.50
TL072CD	296-1282-5-ND	Dual JFET-Input Op Amp	8-SOIC	.50	.40	.30
TL072CDR	296-1282-1-ND	Dual JFET-Input Op Amp	8-SOIC	.50	.40	.30
TL072CDR	296-1282-2-ND	Dual JFET-Input Op Amp	8-SOIC	337.50/2,500		
TL072CP	296-1775-5-ND	Dual JFET-Input Op Amp	8-Dip	.50	.40	.30
TL072CPWR	296-7193-1-ND	Dual Low Noise JFET Op Amp	8-TSSOP	.50	.40	.30
TL072CPWR	296-7193-2-ND	Dual Low Noise JFET Op Amp	8-TSSOP	280.00/2,000		
TL072ID	296-7194-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.64	.48	.36
TL072IDR	296-7194-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.64	.48	.36
TL072IDR	296-7194-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	520.00/2,500		
TL074ACD	296-7195-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.96	.72	.54
TL074ACN	296-12948-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.96	.72	.54
TL074BCD	296-7196-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	1.05	.88	.70
TL074BCN	296-7197-5-ND	Quad Low Noise JFET Op Amp	14-Dip	1.05	.88	.70
TL074CD	296-1283-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.64	.48	.36
TL074CDR	296-1283-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.64	.48	.36
TL074CDR	296-1283-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	520.00/2,500		
TL074CN	296-1777-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.64	.48	.36
TL074CPWR	296-7198-1-ND	Quad Low Noise JFET Op Amp	14-TSSOP	.64	.48	.36
TL074CPWR	296-7198-2-ND	Quad Low Noise JFET Op Amp	14-TSSOP	426.00/2,000		
TL074ID	296-7199-5-ND	Quad Low Noise JFET Op Amp	14-SOP	.72	.54	.41
TL074IN	296-7200-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.72	.54	.41
TL080CP	296-10127-5-ND	JFET Op Amp	8-Dip	.75	.63	.50
TL081ACD	296-7201-5-ND	JFET Op Amp	8-SOIC	.80	.60	.45
TL081ACP	296-7202-5-ND	JFET Op Amp	8-Dip	.80	.60	.45
TL081CD	296-12949-5-ND	JFET Op Amp	8-SOIC	.60	.45	.34
TL081CP	296-7203-5-ND	JFET Op Amp	8-Dip	.60	.45	.34
TL081ID	296-7204-5-ND	JFET Op Amp	8-SOIC	.80	.60	.45
TL082ACD	296-7205-5-ND	Dual JFET-Input Op Amp	8-SOIC	.76	.57	.43
TL082ACP	296-1778-5-ND	Dual JFET-Input Op Amp	8-Dip	.76	.57	.43
TL082BCD	296-7206-5-ND	Dual JFET-Input Op Amp	8-SOIC	.87	.73	.58
TL082BCP	296-7207-5-ND	Dual JFET-Input Op Amp	8-Dip	.87	.73	.58
TL082CD	296-1284-5-ND	Dual JFET-Input Op Amp	8-SOIC	.55	.44	.33
TL082CDR	296-1284-1-ND	Dual JFET-Input Op Amp	8-SOIC	.55	.44	.33
TL082CDR	296-1284-2-ND	Dual JFET-Input Op Amp	8-SOIC	372.50/2,500		
TL082CP	296-1780-5-ND	Dual JFET-Input Op Amp	8-Dip	.55	.44	.33
TL082CPWR	296-7208-1-ND	Dual JFET-Input Op Amp	8-TSSOP	.55	.44	.33
TL082CPWR	296-7208-2-ND	Dual JFET-Input Op Amp	8-TSSOP	308.00/2,000		
TL082ID	296-7209-5-ND	Dual JFET-Input Op Amp	8-SOIC	.68	.51	.39
TL082IP	296-1781-5-ND	Dual JFET-Input Op Amp	8-Dip	.68	.51	.39
TL084ACD	296-7210-5-ND	Quad JFET-Input Op Amp	14-SOIC	.88	.66	.50
TL084ACN	296-1782-5-ND	Quad JFET-Input Op Amp	14-Dip	.88	.66	.50
TL084BCD	296-12950-5-ND	Quad JFET-Input Op Amp	14-SOIC	.96	.80	.64
TL084BCN	296-12951-5-ND	Quad JFET-Input Op Amp	14-Dip	.96	.80	.64
TL084CD	296-1285-5-ND	Quad JFET-Input Op Amp	14-SOIC	.64	.48	.36
TL084CDR	296-1285-1-ND	Quad JFET-Input Op Amp	14-SOIC	.64	.48	.36
TL084CDR	296-1285-2-ND	Quad JFET-Input Op Amp	14-SOIC	520.00/2,500		
TL084CN	296-1784-5-ND	Quad JFET-Input Op Amp	14-Dip	.64	.48	.36
TL084ACNSR	296-13349-1-ND	Quad JFET-Input Op Amp	14-SOP	.88	.66	.50
TL084ACNSR	296-13349-2-ND	Quad JFET-Input Op Amp	14-SOP	586.00/2,000		
TL084CNSR	296-7211-1-ND	Quad JFET-Input Op Amp	14-SOP	.64	.48	.36
TL084CNSR	296-7211-2-ND	Quad JFET-Input Op Amp	14-SOP	426.00/2,000		
TL084CPWR	296-7212-1-ND	Quad JFET-Input Op Amp	14-TSSOP	.64	.48	.36
TL084CPWR	296-7212-2-ND	Quad JFET-Input Op Amp	14-TSSOP	426.00/2,000		
TL084ID	296-1785-5-ND	Quad JFET-Input Op Amp	14-SOIC	.80	.60	.45
TL084IDR	296-1785-1-ND	Quad JFET-Input Op Amp	14-SOIC	.80	.60	.45
TL084IDR	296-1785-2-ND	Quad JFET-Input Op Amp	14-SOIC	650.00/2,500		
TL084IN	296-7213-5-ND	Quad JFET-Input Op Amp	14-Dip	.80	.60	.45
TL084QD	296-7214-5-ND	Quad JFET-Input Op Amp	14-SOIC	1.26	1.05	.84

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
TL343IDBVR	296-12496-1-ND	Single, Low Power Op Amp	SOT-23-5	.80	.60	.45
TL343IDBVR	296-12496-2-ND	Single, Low Power Op Amp	SOT-23-5	780.00/3,000		
TL3472CD	296-10169-5-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.75	.63	.50
TL3472CDR	296-10169-1-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.75	.63	.50
TL3472CDR	296-10169-2-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	812.50/2,500		
TL3472CP	296-10170-5-ND	High Slew Rate, Single Supply Op Amp	8-Dip	.75	.63	.50
TL3474CD	296-14405-5-ND	High Slew Rate, Single Supply Op Amp *NEW!*	14-SOIC	1.11	.93	.74
TL3474CN	296-14406-5-ND	High Slew Rate, Single Supply Op Amp *NEW!*	14-Dip	1.11	.93	.74
TL3474ID	296-14407-5-ND	High Slew Rate, Single Supply Op Amp *NEW!*	14-SOIC	1.17	.98	.78
TL3474IN	296-14408-5-ND	High Slew Rate, Single Supply Op Amp *NEW!*	14-Dip	1.17	.98	.78
TL592B-8D	296-10218-5-ND	Differential Video Amplifier	8-SOIC	1.26	1.05	.84
TL592BP	296-10219-5-ND	Differential Video Amplifier	8-Dip	1.26	1.05	.84
TL592BPSR	296-13354-1-ND	Differential Video Amplifier	8-SOP	1.26	1.05	.84
TL592BPSR	296-13354-2-ND	Differential Video Amplifier	8-SOP	1118.00/2,000		
TLC25L2ACD	296-7297-5-ND	Dual Op Amp	8-SOIC	2.34	1.88	1.46
TLC25L2BCD	296-7298-5-ND	Dual Op Amp	8-SOIC	2.45	1.97	1.53
TLC25L2BCP	296-7299-5-ND	Dual Op Amp	8-Dip	2.45	1.97	1.53
TLC25L2CD	296-7300-5-ND	Dual LV Micropower Op Amp	8-SOIC	2.48	1.98	1.49
TLC25L2CP	296-7301-5-ND	Dual LV Micropower Op Amp	8-Dip	2.48	1.98	1.49
TLC25L4ACD	296-7302-5-ND	Quad Op Amp	14-SOIC	3.26	2.61	2.03
TLC25L4ACN	296-7303-5-ND	Quad Op Amp	14-Dip	3.26	2.61	2.03
TLC25L4BCD	296-7304-5-ND	Quad Op Amp	14-SOIC	3.42	2.74	2.13
TLC25L4BCN	296-7305-5-ND	Quad Op Amp	14-Dip	3.42	2.74	2.13
TLC25L4CD	296-7306-5-ND	Quad LV Micropower Op Amp	14-SOIC	3.11	2.49	1.94
TLC25L4CN	296-7307-5-ND	Quad LV Micropower Op Amp	14-Dip	3.11	2.49	1.94
TLC25M2ACD	296-7308-5-ND	Dual Op Amp	8-SOIC	2.34	1.88	1.46
TLC25M2ACP	296-7309-5-ND	Dual Op Amp	8-Dip	2.34	1.88	1.46
TLC25M2CP	296-7310-5-ND	Dual LP LV Op Amp	8-Dip	2.48	1.98	1.49
TLC25M4ACD	296-7311-5-ND	Quad Op Amp	14-SOIC	3.26	2.61	2.03
TLC25M4BCN	296-7312-5-ND	Quad Op Amp	14-Dip	3.42	2.74	2.13
TLC25M4CD	296-7313-5-ND	Quad LP LV Op Amp	14-SOIC	3.11	2.49	1.94
TLC25M4CN	296-7314-5-ND	Quad LP LV Op Amp	14-Dip	3.11	2.49	1.94
TLC27L1ACP	296-10259-5-ND	Low-Power Op Amp	8-Dip	.75	.63	.50
TLC27L1ID	296-10260-5-ND	Low-Power Op Amp	8-SOIC	.75	.63	.50
TLC27L2ACD	296-7369-5-ND	Dual Precision Op Amp	8-SOIC	.84	.70	.56
TLC27L2ACP	296-7370-5-ND	Dual Precision Op Amp	8-Dip	.84	.70	.56
TLC27L2AID	296-7371-5-ND	Dual Precision Op Amp	8-SOIC	.87	.73	.58
TLC27L2AIP	296-7372-5-ND	Dual Precision Op Amp	8-Dip	.87	.73	.58
TLC27L2BCD	296-7373-5-ND	Dual Precision Op Amp	8-SOIC	.87	.73	.58
TLC27L2BCP	296-7374-5-ND	Dual Precision Op Amp	8-Dip	.87	.73	.58
TLC27L2BID	296-7375-5-ND	Dual Precision Op Amp	8-SOIC	.90	.75	.60
TLC27L2BIP	296-7376-5-ND	Dual Precision Op Amp	8-Dip	.90	.75	.60
TLC27L2CD	296-1316-5-ND	Dual Precision Op Amp	8-SOIC	.78	.65	.52
TLC27L2CDR	296-1316-1-ND	Dual Precision Op Amp	8-SOIC	.78	.65	.52
TLC27L2CDR	296-1316-2-ND	Dual Precision Op Amp	8-SOIC	845.00/2,500		
TLC27L2CP	296-7377-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	.78	.65	.52
TLC27L2CPSR	296-7378-1-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOP	.78	.65	.52
TLC27L2CPSR	296-7378-2-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOP	692.00/2,000		
TLC27L2ID	296-1317-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.84	.70	.56
TLC27L2IDR	296-1317-1-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.84	.70	.56
TLC27L2IDR	296-1317-2-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	910.00/2,500		
TLC27L2IP	296-7379-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	.84	.70	.56
TLC27L2IPW	296-7380-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-TSSOP	.84	.70	.56
TLC27L2MD	296-7381-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	1.45	1.16	.87
TLC27L4ACD	296-1831-5-ND	Quad Precision Op Amp	14-SOIC	.99	.83	.66
TLC27L4ACN	296-7382-5-ND	Quad Precision Op Amp	14-Dip	.99	.83	.66
TLC27L4AID	296-7383-5-ND	Quad Precision Op Amp	14-SOIC	1.05	.88	.70
TLC27L4AIN	296-7384-5-ND	Quad Precision Op Amp	14-Dip	1.05	.88	.70
TLC27L4BCD	296-7385-5-ND	Quad Precision Op Amp	14-SOIC	1.05	.88	.70
TLC27L4BCN	296-7386-5-ND	Quad Precision Op Amp	14-Dip	1.05	.88	.70
TLC27L4BID	296-7387-5-ND	Quad Precision Op Amp	14-SOIC	1.08	.90	.72
TLC27L4BIN	296-7388-5-ND	Quad Precision Op Amp	14-Dip	1.08	.90	.72
TLC27L4CD	296-1318-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.96	.80	.64
TLC27L4CDR	296-1318-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.96	.80	.64
TLC27L4CN	296-7389-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	.96	.80	.64
TLC27L4CPWR	296-7390-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	.96	.80	.64
TLC27L4CPWR	296-7390-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	852.00/2,000		
TLC27L4ID	296-1319-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.99	.83	.66
TLC27L4IDR	296-1319-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.99	.83	.66
TLC27L4IDR	296-1319-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	1072.50/2,500		
TLC27L4IN	296-7391-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	.99	.83	.66
TLC27L4IPW	296-7392-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	.99	.83	.66
TLC27L7CD	296-1832-5-ND	Dual Precision Op Amp	8-SOIC	1.55	1.24	.93
TLC27L7CP	296-7393-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	1.55	1.24	.93
TLC27L7ID	296-1320-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	1.65	1.32	.99
TLC27L7IDR	296-1320-1-ND	Dual Precision Op Amp	8-SOIC	1.65	1.32	.99
TLC27L7IDR	296-1320-2-ND	Dual Precision Op Amp	8-SOIC	2112.50/2,500		
TLC27L7IP	296-7394-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	1.65	1.32	.99
TLC27L9CD	296-7395-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	2.18	1.74	1.31
TLC27L9CN	296-7396-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	2.18	1.74	1.31
TLC27L9CNSR	296-7397-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOP	2.18	1.74	1.31
TLC27L9CNSR	296-7397-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOP	2262.00/2,000		
TLC27L9ID	296-1834-5-ND	Quad Precision Op Amp	14-SOIC	2.28	1.82	1.37
TLC27L9IN	296-7398-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	2.28	1.82	1.37
TLC27M2ACD	296-7399-5-ND	Dual Precision Op Amp	8-SOIC	.84	.70	.56
TLC27M2ACP	296-7400-5-ND	Dual Precision Op Amp	8-Dip	.84	.70	.56
TLC27M2AID	296-7401-5-ND	Dual Precision Op Amp	8-SOIC	.87	.73	.58
TLC27M2AIP	296-7402-5-ND	Dual Precision Op Amp	8-Dip	.87	.73	.58
TLC27M2BCD	296-7403-5-ND	Dual Precision Op Amp	8-SOIC	.87	.73	.58
TLC27M2BCP	296-7404-5-ND	Dual Precision Op Amp	8-Dip	.87	.73	.58
TLC27M2BID	296-7405-5-ND	Dual Precision Op Amp	8-SOIC	.90	.75	.60
TLC27M2BIP	296-7406-5-ND	Dual Precision Op Amp	8-Dip	.90	.75	.60
TLC27M2CD	296-1321-5-ND	Dual Precision Op Amp	8-SOIC	.78	.65	.52
TLC27M2CDR	296-1321-1-ND	Dual Precision Op Amp	8-SOIC	.78	.65	.52
TLC27M2CDR	296-1321-2-ND	Dual Precision Op Amp	8-SOIC	845.00/2,500		
TLC27M2CP	296-1836-5-ND	Dual Precision Op Amp	8-Dip	.78	.65	.52
TLC27M2CPWR	296-7407-1-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	.78	.65	.52
TLC27M2CPWR	296-7407-2-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	692.00/2,000		
TLC27M2ID	296-1322-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.84	.70	.56
TLC27M2IDR	296-1322-1-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.84	.70	.56
TLC27M2IDR	296-1322-2-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	910.00/2,500		
TLC27M2IP	296-7408-5-ND	Dual LP Prec. Single-Supply Op Amp	8-Dip	.84	.70	.56
TLC27M2IPW	296-7409-5-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	.84	.70	.56
TLC27M2MD	296-7410-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOP	1.45	1.16	.87
TLC27M4ACD	296-7411-5-ND	Quad Precision Op Amp	14-SOIC	.99	.83	.66
TLC27M4ACN	296-7412-5-ND	Quad Precision Op Amp	14-Dip	.99	.83	.66
TLC27M4AID	296-7413-5-ND	Quad Precision Op Amp	14-SOIC	1.05	.88	.70
TLC27M4AIN	296-7414-5-ND	Quad Precision Op Amp	14-Dip	1.05	.88	.70
TLC27M4BCD	296-7415-5-ND	Quad Precision Op Amp	14-SOIC	1.26	1.05	.84
TLC27M4BCN	296-7416-5-ND	Quad Precision Op Amp	14-Dip	1.26	1.05	.84
TLC27M4BID	296-7417-5-ND	Quad Precision Op Amp	14-SOIC	1.32	1.10	.88
TLC27M4BIN	296-7418-5-ND	Quad Precision Op Amp	14-Dip	1.32	1.10	.88
TLC27M4CD	296-1837-5-ND	Quad Precision Op Amp	14-SOIC	.96	.80	.64
TLC27M4CN	296-7419-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	.96	.80	.64
TLC27M4CPWR	296-7420-1-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	.96	.80	.64
TLC27M4CPWR	296-7420-2-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	852.00/2,000		
TLC27M4ID	296-7421-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOP	.99	.83	.66
TLC27M4IN	296-7422-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	.99	.83	.66
TLC27M4IPWR	296-7423-1-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	.99	.83	.66
TLC27M4IPWR	296-7423-2-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	878.00/2,000		
TLC27M7CD	296-1323-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.55	1.24	.93
TLC27M7CDR	296-1323-1-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.55	1.24	.93
TLC27M7CDR	296-1323-2-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1985.00/2,500		
TLC27M7CP	296-1838-5-ND	Dual Precision Op Amp	8-Dip	1.55	1.24	.93
TLC27M7ID	296-7424-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.65	1.32	.99
TLC27M7IP	296-7425-5-ND	Dual LP Prec. Single-Supply Op Amp	8-Dip	1.65	1.32	.99
TLC27M9CD	296-7426-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	2.18	1.74	1.31
TLC27M9CN	296-7427-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	2.18	1.74	1.31
TLC27M9ID	296-7428-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	2.28	1.82	1.37
TLC27M9IN	296-7429-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	2.28	1.82	1.37
TLC070AIP	296-7216-5-ND	High-Output WB Op Amp	8-Dip	1.47	1.23	.98
TLC070CD	296-2413-5-ND	High-Output WB Op Amp	8-SOIC	1.35	1.13	.90
TLC070CDR	296-2413-1-ND	High-Output WB Op Amp	8-SOIC	1.35	1.13	.90
TLC070CDR	296-2413-2-ND	High-Output WB Op Amp	8-SOIC	1462.50/2,500		
TLC070CDGNR	296-7217-1-ND	High-Output WB Op Amp	8-MSOP	1.35	1.13	.90
TLC070CDGNR	296-7217-2-ND	High-Output WB Op Amp	8-MSOP	1462.50/2,500		
TLC070IDGNR	296-7218-1-ND	High-Output WB Op Amp	8-MSOP	1.41	1.18	.94
TLC070IDGNR	296-7218-2-ND	High-Output WB Op Amp	8-MSOP	1527.50/2,500		
TLC070IDR	296-7219-1-ND	High-Output WB Op Amp	8-SOIC	1.41	1.18	.94
TLC070IDR	296-7219-2-ND	High-Output WB Op Amp	8-SOIC	1527.50/2,500		
TLC070IP	296-7220-5-ND	High-Output WB Op Amp	8-Dip	1.41	1.18	.94
TLC071AIP	296-7221-5-ND	High-Output WB Op Amp	8-Dip	1.35	1.13	.90
TLC071CD	296-2414-5-ND	Single-Supply Op Amp	8-SOIC	1.23	1.03	.82
TLC071CDGNR	296-7222-1-ND	High-Output WB Op Amp	8-MSOP	1.35	1.13	.90
TLC071CDGNR	296-7222-2-ND	High-Output WB Op Amp	8-MSOP	1462.50/2,500		
TLC071IDGNR	296-7223-1-ND	High-Output WB Op Amp	8-MSOP	1.41	1.18	.94
TLC071IDGNR	296-7223-2-ND	High-Output WB Op Amp	8-MSOP	1527.50/2,500		
TLC071IDR	296-7224-1-ND	High-Output WB Op Amp	8-SOIC	1.29	1.08	.86
TLC071IDR	296-7224-2-ND	High-Output WB Op Amp	8-SOIC	1397.50/2,500		
TLC071IP	296-7225-5-ND	High-Output WB Op Amp	8-Dip	1.29	1.08	.86
TLC072AID	296-7226-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC072AIP	296-7227-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC072CD	296-2415-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.53	1.22	.92
TLC072CDR	296-2415-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.53	1.22	.92
TLC072CDR	296-2415-2-ND	Dual High-Output WB Op Amp	8-SOIC	1952.50/2,500		
TLC072CDGNR	296-7228-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.53	1.22	.92
TLC072CDGNR	296-7228-2-ND	Dual High-Output WB Op Amp	8-MSOP	1952.50/2,500		
TLC072CP	296-7229-5-ND	Dual High-Output WB Op Amp	8-Dip	1.53	1.22	.92
TLC072IDGNR	296-7230-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.60	1.28	.96
TLC072IDGNR	296-7230-2-ND	Dual High-Output WB Op Amp	8-MSOP	2047.50/2,500		
TLC072IDR	296-7231-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.60	1.28	.96
TLC072IDR	296-7231-2-ND	Dual High-Output WB Op Amp	8-SOIC	2047.50/2,500		
TLC072IP	296-7232-5-ND	Dual High-Output WB Op Amp	8-Dip	1.60	1.28	.96
TLC073AID	296-7233-5-ND	Dual High-Output WB Op Amp	14-SOP	1.83	1.46	1.10
TLC073CD	296-2416-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.68	1.34	1.01
TLC073CDR	296-2416-1-ND	Dual High-Output WB Op Amp	14-SOIC	1.68	1.34	1.01
TLC073CDR	296-2416-2-ND	Dual High-Output WB Op Amp	14-SOIC	2145.00/2,500		
TLC073CDGQ	296-7234-5-ND	Dual High-Output WB Op Amp	10-MSOP	1.68	1.34	1.01
TLC073CN	296-7235-5-ND	Dual High-Output WB Op Amp	14-Dip	1.68	1.34	1.01
TLC073ID	296-7236-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.75	1.40	1.05
TLC073IDR	296-7236-1-ND	Dual High-Output WB Op Amp	14-SOIC	1.75	1.40	1.05

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC073IDR	296-7236-2-ND	Dual High-Output WB Op Amp	14-SOIC	2240.00/2,500		
TLC073IDGQR	296-7237-1-ND	Dual High-Output WB Op Amp	10-MSOP	1.75	1.40	1.05
TLC073IDGQR	296-7237-2-ND	Dual High-Output WB Op Amp	10-MSOP	2240.00/2,500		
TLC073IN	296-7238-5-ND	Dual High-Output WB Op Amp	14-Dip	1.75	1.40	1.05
TLC074AID	296-7239-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.33	1.86	1.40
TLC074AIN	296-7240-5-ND	Quad High-Output WB Op Amp	14-Dip	2.33	1.86	1.40
TLC074AIPWP	296-7241-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.43	1.94	1.46
TLC074CD	296-2417-5-ND	Quad High-Output Op Amp	14-SOIC	2.13	1.70	1.28
TLC074CDR	296-2417-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.13	1.70	1.28
TLC074CDR	296-2417-2-ND	Quad High-Output WB Op Amp	14-SOIC	2720.00/2,500		
TLC074CN	296-7242-5-ND	Quad High-Output WB Op Amp	14-Dip	2.13	1.70	1.28
TLC074CPWPR	296-7243-1-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.23	1.78	1.34
TLC074CPWPR	296-7243-2-ND	Quad High-Output WB Op Amp	20-HTSSOP	2314.00/2,000		
TLC074IDR	296-7244-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.23	1.78	1.34
TLC074IDR	296-7244-2-ND	Quad High-Output WB Op Amp	14-SOIC	2847.50/2,500		
TLC074IN	296-7245-5-ND	Quad High-Output WB Op Amp	14-Dip	2.23	1.78	1.34
TLC074IPWP	296-7246-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.33	1.86	1.40
TLC075AID	296-7247-5-ND	Quad High-Output WB Op Amp	16-SOP	2.27	1.82	1.42
TLC075AIN	296-7248-5-ND	Quad High-Output WB Op Amp	16-Dip	2.27	1.82	1.42
TLC075AIPWP	296-7249-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.39	1.91	1.49
TLC075CD	296-2418-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.33	1.86	1.40
TLC075CDR	296-2418-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.33	1.86	1.40
TLC075CDR	296-2418-2-ND	Quad High-Output WB Op Amp	16-SOIC	2975.00/2,500		
TLC075CN	296-7250-5-ND	Quad High-Output WB Op Amp	16-Dip	2.33	1.86	1.40
TLC075CPWP	296-7251-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.43	1.94	1.46
TLC075IDR	296-7252-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.43	1.94	1.46
TLC075IDR	296-7252-2-ND	Quad High-Output WB Op Amp	16-SOIC	3105.00/2,500		
TLC075IN	296-7253-5-ND	Quad High-Output WB Op Amp	16-Dip	2.43	1.94	1.46
TLC075IPWP	296-7254-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.27	1.82	1.42
TLC080AIDR	296-7255-1-ND	High-Output WB Op Amp	8-SOIC	1.47	1.23	.98
TLC080AIDR	296-7255-2-ND	High-Output WB Op Amp	8-SOIC	1592.50/2,500		
TLC080AIP	296-7256-5-ND	High-Output WB Op Amp	8-Dip	1.47	1.23	.98
TLC080CD	296-2419-5-ND	High-Output WB Op Amp	8-SOIC	1.35	1.13	.90
TLC080CDR	296-2419-1-ND	High-Output WB Op Amp	8-SOIC	1.35	1.13	.90
TLC080CDR	296-2419-2-ND	High-Output WB Op Amp	8-SOIC	1462.50/2,500		
TLC080CDGNR	296-7257-1-ND	High-Output WB Op Amp	8-MSOP	1.35	1.13	.90
TLC080CDGNR	296-7257-2-ND	High-Output WB Op Amp	8-MSOP	1462.50/2,500		
TLC080IDGNR	296-7258-1-ND	High-Output WB Op Amp	8-MSOP	1.41	1.18	.94
TLC080IDGNR	296-7258-2-ND	High-Output WB Op Amp	8-MSOP	1527.50/2,500		
TLC080IDR	296-7259-1-ND	High-Output WB Op Amp	8-SOIC	1.41	1.18	.94
TLC080IDR	296-7259-2-ND	High-Output WB Op Amp	8-SOIC	1527.50/2,500		
TLC080IP	296-7260-5-ND	High-Output WB Op Amp	8-Dip	1.41	1.18	.94
TLC081AIP	296-7261-5-ND	High-Output WB Op Amp	8-Dip	1.35	1.13	.90
TLC081CD	296-2420-5-ND	Single-Supply Op Amp	8-SOIC	1.23	1.03	.82
TLC081CDGN	296-7262-5-ND	High-Output WB Op Amp	8-MSOP	1.35	1.13	.90
TLC081CDGNR	296-7262-1-ND	High-Output WB Op Amp	8-MSOP	1.35	1.13	.90
TLC081CDGNR	296-7262-2-ND	High-Output WB Op Amp	8-MSOP	1462.50/2,500		
TLC081IDGNR	296-7263-1-ND	High-Output WB Op Amp	8-MSOP	1.41	1.18	.94
TLC081IDGNR	296-7263-2-ND	High-Output WB Op Amp	8-MSOP	1527.50/2,500		
TLC081IDR	296-7264-1-ND	High-Output WB Op Amp	8-SOIC	1.29	1.08	.86
TLC081IDR	296-7264-2-ND	High-Output WB Op Amp	8-SOIC	1397.50/2,500		
TLC081IP	296-7265-5-ND	High-Output WB Op Amp	8-Dip	1.29	1.08	.86
TLC082AIDR	296-7266-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC082AIDR	296-7266-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC082AIP	296-7267-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC082CD	296-2421-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.53	1.22	.92
TLC082CDR	296-2421-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.53	1.22	.92
TLC082CDR	296-2421-2-ND	Dual High-Output WB Op Amp	8-SOIC	1952.50/2,500		
TLC082CDGNR	296-7268-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.53	1.22	.92
TLC082CDGNR	296-7268-2-ND	Dual High-Output WB Op Amp	8-MSOP	1952.50/2,500		
TLC082CP	296-7269-5-ND	Dual High-Output WB Op Amp	8-Dip	1.53	1.22	.92
TLC082IDGNR	296-7270-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.60	1.28	.96
TLC082IDGNR	296-7270-2-ND	Dual High-Output WB Op Amp	8-MSOP	2047.50/2,500		
TLC082IDR	296-7271-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.60	1.28	.96
TLC082IDR	296-7271-2-ND	Dual High-Output WB Op Amp	8-SOIC	2047.50/2,500		
TLC082IP	296-7272-5-ND	Dual High-Output WB Op Amp	8-Dip	1.60	1.28	.96
TLC083AID	296-7273-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.83	1.46	1.10
TLC083AIN	296-7274-5-ND	Dual High-Output WB Op Amp	14-Dip	1.83	1.46	1.10
TLC083CD	296-2422-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.68	1.34	1.01
TLC083CDR	296-2422-1-ND	Dual High-Output WB Op Amp	14-SOIC	1.68	1.34	1.01
TLC083CDR	296-2422-2-ND	Dual High-Output WB Op Amp	14-SOIC	2145.00/2,500		
TLC083CDGQR	296-7275-1-ND	Dual High-Output WB Op Amp	10-MSOP	1.68	1.34	1.01
TLC083CDGQR	296-7275-2-ND	Dual High-Output WB Op Amp	10-MSOP	2145.00/2,500		
TLC083CN	296-7276-5-ND	Dual High-Output WB Op Amp	14-Dip	1.68	1.34	1.01
TLC083ID	296-7277-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.75	1.40	1.05
TLC083IDGQ	296-7278-5-ND	Dual High-Output WB Op Amp	10-MSOP	1.75	1.40	1.05
TLC083IN	296-7279-5-ND	Dual High-Output WB Op Amp	14-Dip	1.75	1.40	1.05
TLC084AID	296-7280-5-ND	Quad High-Out WB Op Amp	14-SOIC	2.33	1.86	1.40
TLC084AIN	296-7281-5-ND	Quad High-Out WB Op Amp	14-Dip	2.33	1.86	1.40
TLC084AIPWP	296-7282-5-ND	Quad High-Out WB Op Amp	20-HTSSOP	2.43	1.94	1.46
TLC084CD	296-2423-5-ND	Quad High-Out WB Op Amp	14-SOIC	2.13	1.70	1.28
TLC084CDR	296-2423-1-ND	Quad High-Out WB Op Amp	14-SOIC	2.13	1.70	1.28
TLC084CDR	296-2423-2-ND	Quad High-Out WB Op Amp	14-SOIC	2720.00/2,500		
TLC084CN	296-7283-5-ND	Quad High-Out WB Op Amp	14-Dip	2.13	1.70	1.28
TLC084CPWP	296-7285-5-ND	Quad High-Out WB Op Amp	20-HTSSOP	2.23	1.78	1.34
TLC084CPWPR	296-7285-1-ND	Quad High-Out WB Op Amp	20-HTSSOP	2.23	1.78	1.34
TLC084CPWPR	296-7285-2-ND	Quad High-Out WB Op Amp	20-HTSSOP	2314.00/2,000		
TLC084ID	296-7287-5-ND	Quad High-Out WB Op Amp	14-SOIC	2.23	1.78	1.34
TLC084IDR	296-7287-1-ND	Quad High-Out WB Op Amp	14-SOIC	2.23	1.78	1.34
TLC084IDR	296-7287-2-ND	Quad High-Out WB Op Amp	14-SOIC	2847.50/2,500		
TLC084IPWP	296-7288-5-ND	Quad High-Out WB Op Amp	20-HTSSOP	2.33	1.86	1.40
TLC085AID	296-7289-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.27	1.82	1.42
TLC085AIN	296-7290-5-ND	Quad High-Output WB Op Amp	16-Dip	2.27	1.82	1.42
TLC085AIPWP	296-7291-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.39	1.91	1.49
TLC085CD	296-2424-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.33	1.86	1.40
TLC085CDR	296-2424-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.33	1.86	1.40
TLC085CDR	296-2424-2-ND	Quad High-Output WB Op Amp	16-SOIC	2975.00/2,500		
TLC085CN	296-7292-5-ND	Quad High-Output WB Op Amp	16-Dip	2.33	1.86	1.40
TLC085CPWP	296-7293-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.43	1.94	1.46
TLC085IDR	296-7294-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.43	1.94	1.46
TLC085IDR	296-7294-2-ND	Quad High-Output WB Op Amp	16-SOIC	3105.00/2,500		
TLC085IN	296-7295-5-ND	Quad High-Output WB Op Amp	16-Dip	2.43	1.94	1.46
TLC085IPWP	296-7296-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.27	1.82	1.42
TLC251ACD	296-10243-5-ND	Programmable Low Power Op Amp	8-SOIC	1.80	1.44	1.08
TLC251ACP	296-10244-5-ND	Programmable Low Power Op Amp	8-Dip	1.80	1.44	1.08
TLC251BCP	296-10245-5-ND	Programmable Low Power Op Amp	8-Dip	1.90	1.52	1.14
TLC251CD	296-10246-5-ND	Programmable Low Power Op Amp	8-SOIC	1.73	1.38	1.04
TLC251CP	296-10247-5-ND	Programmable Low Power Op Amp	8-Dip	1.73	1.38	1.04
TLC252ACD	296-10248-5-ND	Dual Low Power Op Amp	8-SOIC	2.32	1.86	1.45
TLC252BCD	296-10249-5-ND	Dual Low Power Op Amp	8-SOIC	2.43	1.95	1.52
TLC252BCP	296-10250-5-ND	Dual Low Power Op Amp	8-Dip	2.43	1.95	1.52
TLC252CD	296-10251-5-ND	Dual Low Power Op Amp	8-SOIC	2.48	1.98	1.49
TLC252CP	296-10252-5-ND	Dual Low Power Op Amp	8-Dip	2.48	1.98	1.49
TLC252CPWR	296-10253-1-ND	Dual Low Power Op Amp	8-TSSOP	2.48	1.98	1.49
TLC252CPWR	296-10253-2-ND	Dual Low Power Op Amp	8-TSSOP	2574.00/2,000		
TLC254ACD	296-2902-5-ND	LincMOS Quad Op Amp	14-SOIC	3.26	2.61	2.03
TLC254ACN	296-2903-5-ND	LincMOS Quad Op Amp	14-Dip	3.26	2.61	2.03
TLC254BCD	296-2904-5-ND	LincMOS Quad Op Amp	14-SOIC	3.42	2.74	2.13
TLC254BCN	296-2905-5-ND	LincMOS Quad Op Amp	14-Dip	3.42	2.74	2.13
TLC254CD	296-2906-5-ND	LincMOS Quad Op Amp	14-SOIC	3.11	2.49	1.94
TLC254CN	296-2907-5-ND	LincMOS Quad Op Amp	14-Dip	3.11	2.49	1.94
TLC254ID	296-2908-5-ND	LincMOS Quad Op Amp	14-SOIC	3.26	2.61	2.03
TLC271ACD	296-7338-5-ND	LP Programmable Op Amp	8-SOIC	.75	.63	.50
TLC271ACP	296-7339-5-ND	LP Programmable Op Amp	8-Dip	.75	.63	.50
TLC271AID	296-7340-5-ND	LP Programmable Op Amp	8-SOIC	.78	.65	.52
TLC271AIP	296-7341-5-ND	LP Programmable Op Amp	8-Dip	.78	.65	.52
TLC271BCD	296-7342-5-ND	LP Programmable Op Amp	8-SOIC	.78	.65	.52
TLC271BID	296-7344-5-ND	LP Programmable Op Amp	8-SOIC	.81	.68	.54
TLC271BIP	296-7345-5-ND	LP Programmable Op Amp	8-Dip	.81	.68	.54
TLC271CD	296-1308-5-ND	LP Programmable Op Amp	8-SOIC	.96	.72	.54
TLC271CDR	296-1308-1-ND	LP Programmable Op Amp	8-SOIC	.96	.72	.54
TLC271CDR	296-1308-2-ND	LP Programmable Op Amp	8-SOIC	780.00/2,500		
TLC271BCP	296-7343-5-ND	LP Programmable Op Amp	8-Dip	.78	.65	.52
TLC271CP	296-1820-5-ND	LP Programmable Op Amp	8-Dip	.96	.72	.54
TLC271ID	296-1821-5-ND	LP Programmable Op Amp	8-SOIC	.75	.63	.50
TLC271IDR	296-1821-1-ND	LP Programmable Op Amp	8-SOIC	.75	.63	.50
TLC271IDR	296-1821-2-ND	LP Programmable Op Amp	8-SOIC	812.50/2,500		
TLC271IP	296-1822-5-ND	LP Programmable Op Amp	8-Dip	.75	.63	.50
TLC272ACD	296-1309-5-ND	Dual Precision Op Amp	8-SOIC	.96	.72	.54
TLC272ACDR	296-1309-1-ND	Dual Precision Op Amp	8-SOIC	.96	.72	.54
TLC272ACDR	296-1309-2-ND	Dual Precision Op Amp	8-SOIC	780.00/2,500		
TLC272ACP	296-7346-5-ND	Dual Precision Op Amp	8-Dip	.96	.72	.54
TLC272AID	296-7347-5-ND	Dual Precision Op Amp	8-SOIC	.75	.63	.50
TLC272AIP	296-7348-5-ND	Dual Precision Op Amp	8-Dip	.75	.63	.50
TLC272BCD	296-7349-5-ND	Dual Precision Op Amp	8-SOIC	.75	.63	.50
TLC272BCP	296-7350-5-ND	Dual Precision Op Amp	8-Dip	.75	.63	.50
TLC272BID	296-7351-5-ND	Dual Precision Op Amp	8-SOIC	.78	.65	.52
TLC272BIP	296-7352-5-ND	Dual Precision Op Amp	8-Dip	.78	.65	.52
TLC272CD	296-1310-5-ND	Dual Precision Op Amp	8-SOIC	.92	.69	.52
TLC272CDR	296-1310-1-ND	Dual Precision Op Amp	8-SOIC	.92	.69	.52
TLC272CDR	296-1310-2-ND	Dual Precision Op Amp	8-SOIC	747.50/2,500		
TLC272CP	296-1824-5-ND	Dual Precision Op Amp	8-Dip	.92	.69	.52
TLC272CPSR	296-7353-1-ND	Dual Single-Supply Op Amp	8-SOP	.92	.69	.52
TLC272CPSR	296-7353-2-ND	Dual Single-Supply Op Amp	8-SOP	612.00/2,000		
TLC272CPW	296-7354-5-ND	Dual Single-Supply Op Amp	8-TSSOP	.92	.69	.52
TLC272CPWR	296-7354-1-ND	Dual Single-Supply Op Amp	8-TSSOP	.92	.69	.52
TLC272CPWR	296-7354-2-ND	Dual Single-Supply Op Amp	8-TSSOP	612.00/2,000		
TLC272ID	296-1311-5-ND	Dual Precision Single-Supply Op Amp	8-SOIC	.96	.72	.54
TLC272IDR	296-1311-1-ND	Dual Precision Single-Supply Op Amp	8-SOIC	.96	.72	.54
TLC272IDR	296-1311-2-ND	Dual Precision Single-Supply Op Amp	8-SOIC	780.00/2,500		
TLC272IP	296-7355-5-ND	Dual Single-Supply Op Amp	8-Dip	.96	.72	.54
TLC274ACD	296-1825-5-ND	Quad Precision Op Amp	14-SOIC	.90	.75	.60
TLC274ACN	296-7356-5-ND	Quad Precision Op Amp	14-Dip	.90	.75	.60
TLC274AID	296-7357-5-ND	Quad Precision Op Amp	14-SOIC	.93	.78	.62
TLC274AIN	296-7358-5-ND	Quad Precision Op Amp	14-Dip	.93	.78	.62
TLC274BCD	296-7359-5-ND	Quad Precision Op Amp	14-SOIC	.93	.78	.62
TLC274BCN	296-7360-5-ND	Quad Precision Op Amp	14-Dip	.93	.78	.62
TLC274BID	296-1312-5-ND	Quad Precision Op Amp	14-SOIC	.96	.80	.64
TLC274BIDR	296-1312-1-ND	Quad Precision Op Amp	14-SOIC	.96	.80	.64
TLC274BIDR	296-1312-2-ND	Quad Precision Op Amp	14-SOIC	1040.00/2,500		
TLC274BIN	296-7361-5-ND	Quad Precision Op Amp	14-Dip	.96	.80	.64
TLC274CD	296-1313-5-ND	Quad Single-Supply Op Amp	14-SOIC	.84	.70	.56
TLC274CDR	296-1313-1-ND	Quad Precision Op Amp	14-SOIC	.84	.70	.56
TLC274CDR	296-1313-2-ND	Quad Precision Op Amp	14-SOIC	910.00/2,500		
TLC274CN	296-1826-5-ND	Quad Precision Op Amp	14-Dip	.84	.70	.56
TLC274ID	296-1314-5-ND	Quad Precision Op Amp	14-SOIC	.90	.75	.60
TLC274IDR	296-1314-1-ND	Quad Precision Op Amp	14-SOIC	.90	.75	.60
TLC274IDR	296-1314-2-ND	Quad Precision Op Amp	14-SOIC	975.00/2,500		
TLC274IN	296-7362-5-ND	Quad Single-Supply Op Amp	14-Dip	.90	.75	.60
TLC274IPW	296-14197-5-ND	Quad Single Supply Op Amp *NEW!*	14-TSSOP	.90	.75	.60
TLC274MD	296-7363-5-ND	Quad Single-Supply Op Amp	14-SOP	2.18	1.74	1.31
TLC277CD	296-7364-5-ND	Dual Precision Single-Supply Op Amp	8-SOIC	1.55	1.24	.93
TLC277CP	296-1828-5-ND	Dual Precision Op Amp	8-Dip	1.55	1.24	.93
TLC277ID	296-1829-5-ND	Dual Precision Op Amp	8-SOIC	1.65	1.32	.99
TLC277IP	296-7365-5-ND	Dual Precision Single-Supply Op Amp	8-Dip	1.65	1.32	.99
TLC279CD	296-7366-5-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.18	1.74	1.31
TLC279CN	296-7367-5-ND	Quad Prec. Single-Supply Op Amp	14-Dip	2.18	1.74	1.31
TLC279ID	296-1315-5-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.28	1.82	1.37
TLC279IDR	296-1315-1-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.28	1.82	1.37
TLC279IDR	296-1315-2-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2912.50/2,500		
TLC279IN	296-7368-5-ND	Quad Prec. Single-Supply Op Amp	14-Dip	2.28	1.82	1.37
TLC1078CD	296-10231-5-ND	Dual Micropower Low Voltage Op Amp	8-SOIC	4.30	3.44	2.68
TLC1078CP	296-10232-5-ND	Dual Micropower Low Voltage Op Amp	8-Dip	4.30	3.44	2.68
TLC1078ID	296-10233-5-ND	Dual Micropower Low Voltage Op Amp	8-SOIC	4.52	3.62	2.82
TLC1078IP	296-10234-5-ND	Dual Micropower Low Voltage Op Amp	8-Dip	4.52	3.62	2.82
TLC1079CD	296-10235-5-ND	Quad Micropower Low Volt. Op Amp	14-SOIC	5.34	4.28	3.61
TLC1079CN	296-10236-5-ND	Quad Micropower Low Volt. Op Amp	14-Dip	5.34	4.28	3.61
TLC1079ID	296-10237-5-ND	Quad Micropower Low Volt. Op Amp	14-SOIC	5.60	4.48	3.78
TLC1079IN	296-10238-5-ND	Quad Micropower Low Volt. Op Amp	14-Dip	5.60	4.48	3.78
TLC2201ACD	296-7050-5-ND	Low Noise Precision Op Amp	8-SOIC	3.49	2.79	2.17
TLC2201AID	296-7052-5-ND	Low Noise Precision Op Amp	8-SOIC	3.65	2.92	2.27
TLC2201AMD	296-7054-5-ND	Low Noise Precision Op Amp	8-SOIC	4.48	3.59	2.79
TLC2201CD	296-2425-5-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.31	2.65	2.06
TLC2201CP	296-10241-5-ND	Low Noise Precision R/R Op Amp	8-Dip	3.31	2.65	2.06
TLC2201IDR	296-7061-1-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.49	2.79	2.17

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC2201IDR	296-7061-2-ND	Low Noise Precision R/R Op Amp	8-SOIC	4882.50/2,500		
TLC2201ID	296-10242-5-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.49	2.79	2.17
TLC2201IP	296-7062-5-ND	Low Noise Precision R/R Op Amp	8-Dip	3.49	2.79	2.17
TLC2202ACD	296-7063-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	4.95	3.96	3.08
TLC2202AID	296-7065-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	5.20	4.16	3.24
TLC2202CD	296-1807-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	4.73	3.78	2.94
TLC2202IP	296-7073-5-ND	Dual Low Noise Precision R/R Op Amp	8-Dip	4.95	3.96	3.08
TLC2252AID	296-7074-5-ND	Dual R/R Op Amp	8-SOIC	1.35	1.08	.81
TLC2252AIP	296-7075-5-ND	Dual R/R Op Amp	8-Dip	1.35	1.08	.81
TLC2252AIPWR	296-7076-1-ND	Dual R/R Op Amp	8-TSSOP	1.35	1.08	.81
TLC2252AIPWR	296-7076-2-ND	Dual R/R Op Amp	8-TSSOP	1404.00/2,000		
TLC2252AQD	296-7077-5-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2252CD	296-7078-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.47	1.23	.98
TLC2252CP	296-7079-5-ND	Dual R/R Micropower Op Amp	8-Dip	1.47	1.23	.98
TLC2252CPWR	296-12745-1-ND	Dual R/R Micropower Op Amp	8-TSSOP	1.47	1.23	.98
TLC2252CPWR	296-12745-2-ND	Dual R/R Micropower Op Amp	8-TSSOP	1304.00/2,000		
TLC2252ID	296-7080-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.30	1.04	.78
TLC2252IP	296-7081-5-ND	Dual R/R Micropower Op Amp	8-Dip	1.30	1.04	.78
TLC2252QD	296-7082-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.38	1.10	.83
TLC2254AID	296-7083-5-ND	Quad R/R Op Amp	14-SOIC	1.65	1.32	.99
TLC2254AIN	296-7084-5-ND	Quad R/R Op Amp	14-Dip	1.65	1.32	.99
TLC2254AIPWR	296-7085-1-ND	Quad R/R Op Amp	14-TSSOP	1.65	1.32	.99
TLC2254AIPWR	296-7085-2-ND	Quad R/R Op Amp	14-TSSOP	1716.00/2,000		
TLC2254AQD	296-7086-5-ND	Quad R/R Op Amp	14-SOIC	2.00	1.60	1.20
TLC2254CD	296-1300-5-ND	Quad R/R Micropower Op Amp	14-SOIC	1.50	1.20	.90
TLC2254CDR	296-1300-1-ND	Quad R/R Micropower Op Amp	14-SOIC	1.50	1.20	.90
TLC2254CDR	296-1300-2-ND	Quad R/R Micropower Op Amp	14-SOIC	1920.00/2,500		
TLC2254CN	296-7088-5-ND	Quad R/R Micropower Op Amp	14-Dip	1.50	1.20	.90
TLC2254CPWR	296-7089-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	1.50	1.20	.90
TLC2254CPWR	296-7089-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	1560.00/2,000		
TLC2254ID	296-1301-5-ND	Quad Low Power Op Amp	14-SOIC	1.58	1.26	.95
TLC2254IDR	296-1301-1-ND	Quad Low Power Op Amp	14-SOIC	1.58	1.26	.95
TLC2254IDR	296-1301-2-ND	Quad Low Power Op Amp	14-SOIC	2015.00/2,500		
TLC2254IN	296-7090-5-ND	Quad R/R Micropower Op Amp	14-Dip	1.58	1.26	.95
TLC2254QD	296-7091-5-ND	Quad R/R Micropower Op Amp	14-SOIC	1.93	1.54	1.16
TLC2262AID	296-7092-5-ND	Dual R/R Op Amp	8-SOIC	1.35	1.08	.81
TLC2262AIP	296-7093-5-ND	Dual R/R Op Amp	8-Dip	1.35	1.08	.81
TLC2262AQD	296-7094-5-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2262CD	296-1302-5-ND	Dual R/R Op Amp	8-SOIC	1.47	1.23	.98
TLC2262CDR	296-1302-1-ND	Dual R/R Op Amp	8-SOIC	1.47	1.23	.98
TLC2262CDR	296-1302-2-ND	Dual R/R Op Amp	8-SOIC	1592.50/2,500		
TLC2262CP	296-7095-5-ND	Dual R/R Op Amp	8-Dip	1.47	1.23	.98
TLC2262CPWR	296-7096-1-ND	Dual R/R Op Amp	8-TSSOP	1.47	1.23	.98
TLC2262CPWR	296-7096-2-ND	Dual R/R Op Amp	8-TSSOP	1304.00/2,000		
TLC2262ID	296-7097-5-ND	Dual R/R Op Amp	8-SOIC	1.30	1.04	.78
TLC2262IP	296-7098-5-ND	Dual R/R Op Amp	8-Dip	1.30	1.04	.78
TLC2262QD	296-7099-5-ND	Dual R/R Op Amp	8-SOIC	1.38	1.10	.83
TLC2264AID	296-7100-5-ND	Quad R/R Op Amp	14-SOIC	1.65	1.32	.99
TLC2264AIN	296-7101-5-ND	Quad R/R Op Amp	14-Dip	1.65	1.32	.99
TLC2264AIPWR	296-13504-1-ND	Quad R/R Op Amp	14-TSSOP	1.65	1.32	.99
TLC2264AIPWR	296-13504-2-ND	Quad R/R Op Amp	14-TSSOP	1716.00/2,000		
TLC2264AQD	296-7102-5-ND	Quad R/R Op Amp	14-SOIC	2.00	1.60	1.20
TLC2264CD	296-7103-5-ND	Quad R/R Op Amp	14-SOIC	1.50	1.20	.90
TLC2264CN	296-7104-5-ND	Quad R/R Op Amp	14-Dip	1.50	1.20	.90
TLC2264CPWR	296-7105-1-ND	Quad R/R Op Amp	14-TSSOP	1.50	1.20	.90
TLC2264CPWR	296-7105-2-ND	Quad R/R Op Amp	14-TSSOP	1560.00/2,000		
TLC2264ID	296-7106-5-ND	Quad R/R Op Amp	14-SOIC	1.58	1.26	.95
TLC2264IN	296-7107-5-ND	Quad R/R Op Amp	14-Dip	1.58	1.26	.95
TLC2264QD	296-7108-5-ND	Quad R/R Op Amp	14-SOIC	1.93	1.54	1.16
TLC2272ACD	296-1303-5-ND	Dual R/R Op Amp	8-SOIC	1.33	1.06	.80
TLC2272ACDR	296-1303-1-ND	Dual R/R Op Amp	8-SOIC	1.33	1.06	.80
TLC2272ACDR	296-1303-2-ND	Dual R/R Op Amp	8-SOIC	1695.00/2,500		
TLC2272ACP	296-7109-5-ND	Dual R/R Op Amp	8-Dip	1.33	1.06	.80
TLC2272ACPWR	296-7110-1-ND	Dual R/R Op Amp	8-TSSOP	1.33	1.06	.80
TLC2272ACPWR	296-7110-2-ND	Dual R/R Op Amp	8-TSSOP	1378.00/2,000		
TLC2272AID	296-1304-5-ND	Dual R/R Op Amp	8-SOIC	1.38	1.10	.83
TLC2272AIDR	296-1304-1-ND	Dual R/R Op Amp	8-SOIC	1.38	1.10	.83
TLC2272AIDR	296-1304-2-ND	Dual R/R Op Amp	8-SOIC	1760.00/2,500		
TLC2272AIP	296-7112-5-ND	Dual R/R Op Amp	8-Dip	1.38	1.10	.83
TLC2272AMD	296-7113-5-ND	Dual R/R Op Amp	8-SOIC	1.73	1.38	1.04
TLC2272AQD	296-7114-5-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2272CD	296-1305-5-ND	Dual R/R Op Amp	8-SOIC	1.25	1.00	.75
TLC2272CDR	296-1305-1-ND	Dual R/R Op Amp	8-SOIC	1.25	1.00	.75
TLC2272CDR	296-1305-2-ND	Dual R/R Op Amp	8-SOIC	1600.00/2,500		
TLC2272CP	296-1812-5-ND	Dual R/R Op Amp	8-Dip	1.25	1.00	.75
TLC2272CPWR	296-7115-1-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1.25	1.00	.75
TLC2272CPWR	296-7115-2-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1300.00/2,000		
TLC2272ID	296-7116-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.33	1.06	.80
TLC2272IP	296-7117-5-ND	Dual Low Noise R/R Op Amp	8-Dip	1.33	1.06	.80
TLC2272IPWR	296-7118-1-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1.33	1.06	.80
TLC2272IPWR	296-7118-2-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1378.00/2,000		
TLC2272MD	296-7119-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.58	1.26	.95
TLC2272QD	296-7120-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.38	1.10	.83
TLC2274ACD	296-1813-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.58	1.26	.95
TLC2274ACDR	296-1813-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.58	1.26	.95
TLC2274ACDR	296-1813-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2015.00/2,500		
TLC2274ACN	296-7121-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.58	1.26	.95
TLC2274ACPWR	296-7122-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.58	1.26	.95
TLC2274ACPWR	296-7122-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1638.00/2,000		
TLC2274AID	296-1814-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.65	1.32	.99
TLC2274AIN	296-7123-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.65	1.32	.99
TLC2274AIPW	296-7124-5-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.65	1.32	.99
TLC2274AIPWR	296-7125-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.65	1.32	.99
TLC2274AIPWR	296-7125-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1716.00/2,000		
TLC2274AMD	296-7126-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.32	1.86	1.45
TLC2274AQD	296-7127-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.00	1.60	1.20
TLC2274CD	296-1306-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.50	1.20	.90
TLC2274CDR	296-1306-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.50	1.20	.90
TLC2274CDR	296-1306-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	1920.00/2,500		
TLC2274CN	296-7129-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.50	1.20	.90
TLC2274CPWR	296-7130-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.50	1.20	.90
TLC2274CPWR	296-7130-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1560.00/2,000		
TLC2274ID	296-7131-5-ND	Quad Low Noise R/R Op Amp	14-SOP	1.58	1.26	.95
TLC2274IN	296-7132-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.58	1.26	.95
TLC2274IPWR	296-7133-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.58	1.26	.95
TLC2274IPWR	296-7133-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1638.00/2,000		
TLC2274MD	296-7134-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.38	1.90	1.43
TLC2274QD	296-7135-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.93	1.54	1.16
TLC2652AIP	296-1818-5-ND	Chopper Op Amp	8-Dip	4.25	3.41	2.65
TLC2652AC-8D	296-7316-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-SOIC	4.07	3.26	2.54
TLC2652AC-14D	296-7315-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-SOIC	4.07	3.26	2.54
TLC2652ACN	296-7317-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-Dip	4.07	3.26	2.54
TLC2652ACP	296-7318-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-Dip	4.07	3.26	2.54
TLC2652AI-8D	296-7319-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-SOIC	4.25	3.41	2.65
TLC2652AIN	296-7320-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-Dip	4.25	3.41	2.65
TLC2652C-8D	296-7321-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	3.87	3.10	2.41
TLC2652CN	296-7322-5-ND	Precision Chopper-Stabilized Op Amp	14-Dip	3.87	3.10	2.41
TLC2652CP	296-7323-5-ND	Precision Chopper-Stabilized Op Amp	8-Dip	3.87	3.10	2.41
TLC2652I-8D	296-7324-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	4.07	3.26	2.54
TLC2652M-8D	296-7325-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	4.14	3.32	2.58
TLC2652Q-8D	296-7326-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	3.78	3.03	2.36
TLC2654AC-8D	296-7327-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	2.84	2.27	1.77
TLC2654ACP	296-7328-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-Dip	2.84	2.27	1.77
TLC2654AI-8D	296-7329-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	2.97	2.38	1.85
TLC2654AIP	296-7330-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-Dip	2.97	2.38	1.85
TLC2654AQ-8D	296-7331-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	3.26	2.61	2.03
TLC2654C-8D	296-7332-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	2.70	2.16	1.68
TLC2654CN	296-7333-5-ND	LN Chopper-Stabilized Op Amp	14-Dip	2.70	2.16	1.68
TLC2654CP	296-7334-5-ND	LN Chopper-Stabilized Op Amp	8-Dip	2.70	2.16	1.68
TLC2654I-8D	296-7335-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	2.84	2.27	1.77
TLC2654IP	296-7336-5-ND	LN Chopper-Stabilized Op Amp	8-Dip	2.84	2.27	1.77
TLC2654Q-8D	296-7337-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	3.11	2.49	1.94
TLC4501ACD	296-2426-5-ND	Precision, Rail-to-Rail Op Amp	8-SOIC	2.72	2.18	1.70
TLC4501AID	296-10322-5-ND	High Precision R/R Op Amp	8-SOIC	2.84	2.27	1.77
TLC4501CD	296-10323-5-ND	High Precision R/R Op Amp	8-SOIC	2.59	2.07	1.61
TLC4501IDR	296-10324-1-ND	High Precision R/R Op Amp	8-SOIC	2.72	2.18	1.70
TLC4501IDR	296-10324-2-ND	High Precision R/R Op Amp	8-SOIC	3812.50/2,500		
TLC4502ACD	296-10325-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	3.89	3.12	2.43
TLC4502AID	296-10326-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.07	3.26	2.54
TLC4502AQD	296-10328-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.07	3.26	2.54
TLC4502CD	296-10329-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	3.69	2.96	2.30
TLC4502ID	296-10330-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	3.89	3.12	2.43
TLC4502IDR	296-10330-1-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	3.89	3.12	2.43
TLC4502IDR	296-10330-2-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5450.00/2,500		
TLC4502MD	296-10331-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	2.50	2.00	1.56
TLC4502QD	296-13358-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	3.87	3.10	2.41
TLE2021ACD	296-10353-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.38	1.15	.92
TLE2021ACP	296-10354-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.38	1.15	.92
TLE2021AID	296-10355-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.25	1.00	.75
TLE2021AIP	296-10356-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.25	1.00	.75
TLE2021CD	296-10357-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.20	1.00	.80
TLE2021CP	296-10358-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.20	1.00	.80
TLE2021ID	296-10359-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.32	1.10	.88
TLE2021IP	296-10360-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.32	1.10	.88
TLE2021MD	296-10361-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.44	1.20	.96
TLE2022ACD	296-12304-5-ND	Dual HS, LP Precision Op Amp	8-SOIC	1.85	1.48	1.11
TLE2022ACP	296-10362-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	1.85	1.48	1.11
TLE2022AID	296-10363-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.00	1.60	1.20
TLE2022AIP	296-10364-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	2.00	1.60	1.20
TLE2022AMD	296-10365-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.25	1.80	1.35
TLE2022CD	296-1873-5-ND	Dual JFET-Input Op Amp	8-SOIC	1.28	1.02	.77
TLE2022CP	296-10366-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	1.28	1.02	.77
TLE2022ID	296-10367-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	1.40	1.12	.84
TLE2022IP	296-10368-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	1.40	1.12	.84
TLE2022MD	296-10369-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	1.50	1.20	.90
TLE2024ACDW	296-10370-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.47	2.78	2.16
TLE2024ACN	296-10371-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.47	2.78	2.16
TLE2024AIDW	296-10372-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.76	3.01	2.34
TLE2024AIN	296-10373-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.76	3.01	2.34
TLE2024BMDW	296-10374-5-ND	Quad High Speed, LP Op Amp	16-SOIC	6.56	5.25	4.43
TLE2024CDW	296-10375-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.02	2.42	1.88
TLE2024CN	296-10376-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.02	2.42	1.88
TLE2024IDW	296-10377-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.31	2.65	2.06
TLE2024IN	296-10378-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.31	2.65	2.06
TLE2024MDW	296-10379-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.35	2.69	2.09
TLE2027AMD	296-10380-5-ND	Low Noise, High Speed Op Amp	8-SOIC	4.97	3.98	3.10
TLE2027CD	296-10381-5-ND	Low Noise, High Speed Op Amp	8-SOIC	1.95	1.56	1.17
TLE2027CDR	296-10381-1-ND	Low Noise, High Speed Op Amp	8-SOIC	1.95	1.56	1.17
TLE2027CDR	296-10381-2-ND	Low Noise, High Speed Op Amp	8-SOIC	2495.00/2,500		
TLE2027ID	296-10383-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.15	1.72	1.29
TLE2027MD	296-10385-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.25	1.80	1.35
TLE2037CD	296-10386-5-ND	Low Noise, High Speed Op Amp	8-SOIC	1.95	1.56	1.17
TLE2037ID	296-10388-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.15	1.72	1.29
TLE2037MD	296-10389-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.03	1.62	1.22
TLE2061ACD	296-10390-5-ND	Low Power JFET Op Amp	8-SOIC	1.73	1.38	1.04
TLE2061AID	296-10391-5-ND	Low Power JFET Op Amp	8-SOIC	1.88	1.50	1.13
TLE2061AIP	296-10392-5-ND	Low Power JFET Op Amp	8-Dip	1.88	1.50	1.13
TLE2061CD	296-10393-5-ND	Low Power JFET Op Amp	8-SOIC	1.50	1.20	.90
TLE2061CP	296-10394-5-ND	Low Power JFET Op Amp	8-Dip	1.50	1.20	.90
TLE2061MD	296-10395-5-ND	Low Power JFET Op Amp	8-SOIC	1.33	1.06	.80
TLE2062ACD	296-10396-5-ND	Dual Low Power JFET Op Amp	8-SOIC	1.68	1.34	1.01
TLE2062AID	296-10397-5-ND	Dual Low Power JFET Op Amp	8-SOIC	1.80	1.44	1.08
TLE2062AMD	296-10399-5-ND	Dual Low Power JFET Op Amp	8-SOIC	2.40	1.92	1.44
TLE2062CD	296-1341-5-ND	Dual Low Power JFET Op Amp	8-SOIC	1.41	1.18	.94
TLE2062CDR	296-1341-1-ND	Dual JFET-Input Op Amp	8-SOIC	1.41	1.18	.94
TLE2062CDR	296-1341-2-ND	Dual JFET-Input Op Amp	8-SOIC	1527.50/2,500		
TLE2062CP	296-10401-5-ND	Dual Low Power JFET Op Amp	8-Dip	1.41	1.18	.94

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLE2062ID	296-10402-5-ND	Dual Low Power JFET Op Amp	8-SOIC	1.28	1.02	.77
TLE2062IP	296-10403-5-ND	Dual Low Power JFET Op Amp	8-Dip	1.28	1.02	.77
TLE2062MD	296-10404-5-ND	Dual Low Power JFET Op Amp	8-SOIC	1.45	1.16	.87
TLE2064ACD	296-10405-5-ND	Quad Low Power JFET Op Amp	14-SOIC	4.37	3.50	2.72
TLE2064ACN	296-10406-5-ND	Quad Low Power JFET Op Amp	14-Dip	4.37	3.50	2.72
TLE2064AID	296-10407-5-ND	Quad Low Power JFET Op Amp	14-SOIC	4.68	3.75	2.92
TLE2064AMD	296-10408-5-ND	Quad Low Power JFET Op Amp	14-SOIC	3.67	2.94	2.29
TLE2064CD	296-10409-5-ND	Quad Low Power JFET Op Amp	14-SOIC	3.02	2.42	1.88
TLE2064CN	296-10410-5-ND	Quad Low Power JFET Op Amp	14-Dip	3.02	2.42	1.88
TLE2064ID	296-10411-5-ND	Quad Low Power JFET Op Amp	14-SOIC	3.31	2.65	2.06
TLE2064IN	296-10412-5-ND	Quad Low Power JFET Op Amp	14-Dip	3.31	2.65	2.06
TLE2064MD	296-10413-5-ND	Quad Low Power JFET Op Amp	14-SOIC	2.57	2.06	1.60
TLE2071ACD	296-10414-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.58	1.26	.95
TLE2071ACP	296-10415-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.58	1.26	.95
TLE2071AID	296-10416-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.73	1.38	1.04
TLE2071AIP	296-10417-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.73	1.38	1.04
TLE2071CD	296-10418-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.38	1.10	.83
TLE2071CP	296-10419-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.38	1.10	.83
TLE2071ID	296-10420-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.53	1.22	.92
TLE2071IP	296-10421-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.53	1.22	.92
TLE2072ACD	296-10422-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.40	1.92	1.44
TLE2072ACP	296-10423-5-ND	Dual LN, High Speed JFET Op Amp	8-Dip	2.40	1.92	1.44
TLE2072AID	296-10424-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.34	1.88	1.46
TLE2072CD	296-1342-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	1.93	1.54	1.16
TLE2072CDR	296-1342-1-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	1.93	1.54	1.16
TLE2072CDR	296-1342-2-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2464.00/2,500		
TLE2072CP	296-10426-5-ND	Dual LN, High Speed JFET Op Amp	8-Dip	1.93	1.54	1.16
TLE2072ID	296-10427-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.13	1.70	1.28
TLE2074ACDW	296-10428-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.52	3.62	2.82
TLE2074ACN	296-10429-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	4.52	3.62	2.82
TLE2074AIDW	296-10430-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.93	3.95	3.07
TLE2074CDWR	296-10431-1-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	3.94	3.15	2.45
TLE2074CDWR	296-10431-2-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4462.00/2,000		
TLE2074CN	296-10432-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	3.94	3.15	2.45
TLE2074IDW	296-10433-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.32	3.46	2.69
TLE2074IN	296-10434-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	4.32	3.46	2.69
TLE2081ACD	296-10435-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.43	1.14	.86
TLE2081ACP	296-10436-5-ND	High Speed JFET-In Op Amp	8-Dip	1.43	1.14	.86
TLE2081CD	296-10437-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.47	1.23	.98
TLE2081CP	296-10438-5-ND	High Speed JFET-In Op Amp	8-Dip	1.47	1.23	.98
TLE2081ID	296-10439-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.35	1.08	.81
TLE2082ACD	296-10440-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	1.83	1.46	1.10
TLE2082ACP	296-10441-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	1.60	1.28	.96
TLE2082AID	296-10442-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.00	1.60	1.20
TLE2082AIP	296-10443-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.00	1.60	1.20
TLE2082CD	296-10444-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	1.60	1.28	.96
TLE2082CP	296-1874-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	1.60	1.28	.96
TLE2082ID	296-1343-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	1.75	1.40	1.05
TLE2082IDR	296-1343-1-ND	Dual High Speed JFET-In Op Amp	8-SOIC	1.75	1.40	1.05
TLE2082IDR	296-1343-2-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2240.00/2,500		
TLE2082IP	296-10446-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	1.75	1.40	1.05
TLE2084ACDW	296-10447-5-ND	Quad High Speed JFET Op Amp	16-SOIC	3.29	2.63	2.05
TLE2084ACN	296-10448-5-ND	Quad High Speed JFET Op Amp	14-Dip	3.29	2.63	2.05
TLE2084CDW	296-10449-5-ND	Quad High Speed JFET Op Amp	16-SOIC	2.86	2.29	1.78
TLE2084CN	296-10450-5-ND	Quad High Speed JFET Op Amp	14-Dip	2.86	2.29	1.78
TLE2084IDW	296-10451-5-ND	Quad High Speed JFET Op Amp	16-SOIC	3.15	2.52	1.96
TLE2141ACD	296-10452-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.38	1.10	.83
TLE2141ACP	296-10453-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.38	1.10	.83
TLE2141AID	296-10454-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.48	1.18	.89
TLE2141AIP	296-13361-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.48	1.18	.89
TLE2141CD	296-10455-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.44	1.20	.96
TLE2141CP	296-10456-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.44	1.20	.96
TLE2141ID	296-10457-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.30	1.04	.78
TLE2141IP	296-10458-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.30	1.04	.78
TLE2142ACD	296-10459-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.72	2.18	1.70
TLE2142AID	296-10461-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.88	2.31	1.80
TLE2142AMD	296-1875-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.63	2.11	1.64
TLE2142CD	296-10463-5-ND	Dual High Speed Precision Op Amp	8-SOIC	1.78	1.42	1.07
TLE2142CP	296-10464-5-ND	Dual High Speed Precision Op Amp	8-Dip	1.78	1.42	1.07
TLE2142CPWR	296-10465-1-ND	Dual High Speed Precision Op Amp	16-TSSOP	1.78	1.42	1.07
TLE2142CPWR	296-10465-2-ND	Dual High Speed Precision Op Amp	16-TSSOP	1846.00/2,000		
TLE2142ID	296-10466-5-ND	Dual High Speed Precision Op Amp	8-SOIC	1.95	1.56	1.17
TLE2142IP	296-10467-5-ND	Dual High Speed Precision Op Amp	8-Dip	1.95	1.56	1.17
TLE2142MD	296-10468-5-ND	Dual High Speed Precision Op Amp	8-SOIC	1.78	1.42	1.07
TLE2144ACN	296-10469-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.21	3.37	2.62
TLE2144AIN	296-10470-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.57	3.66	2.85
TLE2144CDW	296-10471-5-ND	Quad High Speed Precision Op Amp	16-SOIC	3.65	2.92	2.27
TLE2144CN	296-10472-5-ND	Quad High Speed Precision Op Amp	14-Dip	3.65	2.92	2.27
TLE2144IDW	296-10473-5-ND	Quad High Speed Precision Op Amp	16-SOIC	4.03	3.23	2.51
TLE2144IN	296-10474-5-ND	Quad High Speed Precision Op Amp	14-Dip	3.94	3.15	2.45
TLE2144MDW	296-10475-5-ND	Quad High Speed Precision Op Amp	16-SOIC	3.40	2.72	2.12
TLE2161ACD	296-10476-5-ND	Low Power JFET Op Amp	8-SOIC	1.43	1.14	.86
TLE2161AID	296-10478-5-ND	Low Power JFET Op Amp	8-SOIC	1.55	1.24	.93
TLE2161CD	296-10480-5-ND	Low Power JFET Op Amp	8-SOIC	1.47	1.23	.98
TLE2161ID	296-10482-5-ND	Low Power JFET Op Amp	8-SOIC	1.35	1.08	.81
TLS1233N	296-10491-5-ND	Wide Band Video Preamp System	20-Dip	1.68	1.34	1.01
TLV27L1IDBVR	296-12228-1-ND	1-Ch., R-R, Output Op Amp	SOT-23-5	1.14	.95	.76
TLV27L1IDBVR	296-12228-2-ND	1-Ch., R-R, Output Op Amp	SOT-23-5	1482.00/3,000		
TLV27L1IDR	296-12229-1-ND	1-Ch., R-R, Output Op Amp	8-SOIC	1.14	.95	.76
TLV27L1IDR	296-12229-2-ND	1-Ch., R-R, Output Op Amp	8-SOIC	1235.00/2,500		
TLV27L2IDR	296-12230-1-ND	2-Ch., R-R, Output Op Amp	8-SOIC	1.33	1.06	.80
TLV27L2IDR	296-12230-2-ND	2-Ch., R-R, Output Op Amp	8-SOIC	1695.00/2,500		
TLV271ID	296-12300-5-ND	550µA/Ch. 3MHz, R/R, Output Op Amp	8-SOIC	.90	.75	.60
TLV271IDBVR	296-13371-1-ND	550µA/Ch. 3MHz, R/R, Output Op Amp	SOT-23-5	.90	.75	.60
TLV271IDBVR	296-13371-2-ND	550µA/Ch. 3MHz, R/R, Output Op Amp	SOT-23-5	1170.00/3,000		
TLV272IDGKR	296-11946-1-ND	2-Ch. Rail-to-Rail Out Op Amp	8-MSOP	.99	.83	.66
TLV272IDGKR	296-11946-2-ND	2-Ch. Rail-to-Rail Out Op Amp	8-MSOP	1072.50/2,500		
TLV272IDR	296-10655-1-ND	2-Ch. Rail-to-Rail Out Op Amp	8-SOIC	.99	.83	.66
TLV272IDR	296-10655-2-ND	2-Ch. Rail-to-Rail Out Op Amp	8-SOIC	1072.50/2,500		
TLV272IP	296-12671-5-ND	2-Ch. Rail-to-Rail Out Op Amp	8-Dip	.99	.83	.66
TLV274CPWR	296-12286-1-ND	3MHz R/R Out Op Amp	14-TSSOP	1.14	.95	.76
TLV274CPWR	296-12286-2-ND	3MHz R/R Out Op Amp	14-TSSOP	1010.00/2,000		
TLV274IDR	296-11981-1-ND	Quad 3MHz R/R Output Op Amp	14-SOIC	1.20	1.00	.80
TLV274IDR	296-11981-2-ND	Quad 3MHz R/R Output Op Amp	14-SOIC	1300.00/2,500		
TLV274IN	296-14379-5-ND	Quad 3MHz R/R Output Op Amp *NEW!*	14-Dip	1.20	1.00	.80
TLV274IPWR	296-11982-1-ND	Quad 3MHz R/R Output Op Amp	14-TSSOP	1.20	1.00	.80
TLV274IPWR	296-11982-2-ND	Quad 3MHz R/ROutput Op Amp	14-TSSOP	1064.00/2,000		
TLV2211CDBVR	296-10500-1-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1.05	.88	.70
TLV2211CDBVR	296-10500-2-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1365.00/3,000		
TLV2211IDBVR	296-10501-1-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2211IDBVR	296-10501-2-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2221CDBVR	296-10504-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.05	.88	.70
TLV2221CDBVR	296-10504-2-ND	Rail-to-Rail Op Amp	SOT-23-5	1365.00/3,000		
TLV2231CDBVR	296-12189-1-ND	Low Power R/R Op Amp	SOT-23-5	1.05	.88	.70
TLV2231CDBVR	296-12189-2-ND	Low Power R/R Op Amp	SOT-23-5	1365.00/3,000		
TLV2231IDBVR	296-10505-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2231IDBVR	296-10505-2-ND	Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2241IDBVT	296-10506-1-ND	Micropower R/R Op Amp	SOT-23-5	1.40	1.12	.84
TLV2241IDBVT	296-10506-2-ND	Micropower R/R Op Amp	SOT-23-5	196.00/250		
TLV2241IDR	296-10507-1-ND	Micropower R/R Op Amp	8-SOIC	1.40	1.12	.84
TLV2241IDR	296-10507-2-ND	Micropower R/R Op Amp	8-SOIC	1792.00/2,500		
TLV2241IP	296-10508-5-ND	Micropower R/R Op Amp	8-Dip	1.40	1.12	.84
TLV2242IDGKR	296-10509-1-ND	Dual Micropower R/R Op Amp	8-MSOP	2.00	1.60	1.20
TLV2242IDGKR	296-10509-2-ND	Dual Micropower R/R Op Amp	8-MSOP	2560.00/2,500		
TLV2242IDR	296-10510-1-ND	Dual Micropower R/R Op Amp	8-SOIC	2.00	1.60	1.20
TLV2242IDR	296-10510-2-ND	Dual Micropower R/R Op Amp	8-SOIC	2560.00/2,500		
TLV2244IDR	296-10511-1-ND	Quad Micropower R/R Op Amp	14-SOIC	2.34	1.88	1.46
TLV2244IDR	296-10511-2-ND	Quad Micropower R/R Op Amp	14-SOIC	3275.00/2,500		
TLV2244IPW	296-10512-5-ND	Quad Micropower R/R Op Amp	14-TSSOP	2.34	1.88	1.46
TLV2252AID	296-7430-5-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1.53	1.22	.92
TLV2252AIP	296-7431-5-ND	Dual Low Voltage R/R Op Amp	8-Dip	1.53	1.22	.92
TLV2252AIPW	296-7432-5-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	1.53	1.22	.92
TLV2252AQD	296-7433-5-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1.65	1.32	.99
TLV2252ID	296-7434-5-ND	Dual LP Low Volt. R/R Op Amp	8-SOIC	1.45	1.16	.87
TLV2252IP	296-7435-5-ND	Dual LP Low Volt. R/R Op Amp	8-Dip	1.45	1.16	.87
TLV2252QD	296-7436-5-ND	Dual LP Low Volt. R/R Op Amp	8-SOIC	1.58	1.26	.95
TLV2254AID	296-7437-5-ND	Quad Low Volt. R/R Op Amp	14-SOIC	2.48	1.98	1.49
TLV2254AIN	296-7438-5-ND	Quad Low Volt. R/R Op Amp	14-Dip	2.48	1.98	1.49
TLV2254AIPWR	296-7439-1-ND	Quad Low Volt. R/R Op Amp	14-TSSOP	2.48	1.98	1.49
TLV2254AIPWR	296-7439-2-ND	Quad Low Volt. R/R Op Amp	14-TSSOP	2574.00/2,000		
TLV2254AQD	296-7440-5-ND	Quad Low Volt. R/R Op Amp	14-SOIC	2.30	1.84	1.38
TLV2254ID	296-7441-5-ND	Quad LP Low Volt. R/R Op Amp	14-SOIC	2.38	1.90	1.43
TLV2254IN	296-7442-5-ND	Quad LP Low Volt. R/R Op Amp	14-Dip	2.38	1.90	1.43
TLV2262AID	296-7443-5-ND	Dual Adv. R/R Op Amp	8-SOIC	1.78	1.42	1.07
TLV2262AIP	296-7444-5-ND	Dual Adv. R/R Op Amp	8-Dip	1.78	1.42	1.07
TLV2262AIPWR	296-14378-1-ND	Dual Adv. R/R Op Amp *NEW!*	8-TSSOP	1.78	1.42	1.07
TLV2262AIPWR	296-14378-2-ND	Dual Adv. R/R Op Amp *NEW!*	8-TSSOP	1846.00/2,000		
TLV2262AQD	296-7445-5-ND	Dual Adv. R/R Op Amp	8-SOIC	1.65	1.32	.99
TLV2262ID	296-7446-5-ND	Dual LP Low Volt. R/R Op Amp	8-SOIC	1.70	1.36	1.02
TLV2262IP	296-7447-5-ND	Dual LP Low Volt. R/R Op Amp	8-Dip	1.70	1.36	1.02
TLV2262IPWR	296-7448-1-ND	Dual LP Low Volt. R/R Op Amp	8-TSSOP	1.70	1.36	1.02
TLV2262IPWR	296-7448-2-ND	Dual LP Low Volt. R/R Op Amp	8-TSSOP	1768.00/2,000		
TLV2262QD	296-7449-5-ND	Dual LP Low Volt. R/R Op Amp	8-SOIC	1.58	1.26	.95
TLV2264AID	296-7450-5-ND	Quad Adv. Rail-to-Rail Op Amp	14-SOIC	2.48	1.98	1.49
TLV2264AIN	296-7451-5-ND	Quad Adv. Rail-to-Rail Op Amp	14-Dip	2.48	1.98	1.49
TLV2264AIPWR	296-7452-1-ND	Quad Adv. Rail-to-Rail Op Amp	14-TSSOP	2.48	1.98	1.49
TLV2264AIPWR	296-7452-2-ND	Quad Adv. Rail-to-Rail Op Amp	14-TSSOP	2574.00/2,000		
TLV2264ID	296-7453-5-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	2.38	1.90	1.43
TLV2264IDR	296-7454-1-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	2.38	1.90	1.43
TLV2264IDR	296-7454-2-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	3040.00/2,500		
TLV2264IN	296-7455-5-ND	Quad LP Low Voltage R/R Op Amp	14-Dip	2.38	1.90	1.43
TLV2264IPWR	296-7456-1-ND	Quad LP Low Voltage R/R Op Amp	14-TSSOP	2.38	1.90	1.43
TLV2264IPWR	296-7456-2-ND	Quad LP Low Voltage R/R Op Amp	14-TSSOP	2470.00/2,000		
TLV2264QD	296-7457-5-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	2.20	1.76	1.32
TLV2302IDGKR	296-12307-1-ND	Op Amp with O/C Comparator	8-MSOP	1.98	1.58	1.19
TLV2302IDGKR	296-12307-2-ND	Op Amp with O/C Comparator	8-MSOP	2527.50/2,500		
TLV2302IDR	296-10513-1-ND	Op Amp with O/C Comparator	8-SOIC	1.98	1.58	1.19
TLV2302IDR	296-10513-2-ND	Op Amp with O/C Comparator	8-SOIC	2527.50/2,500		
TLV2302IP	296-10514-5-ND	Op Amp with O/C Comparator	8-Dip	1.98	1.58	1.19
TLV2304IDR	296-10515-1-ND	Dual Op Amp with Dual O/C Comparator	14-SOIC	2.32	1.86	1.45
TLV2304IDR	296-10515-2-ND	Dual Op Amp with Dual O/C Comparator	14-SOIC	3245.00/2,500		
TLV2304IN	296-12041-5-ND	Dual Op Amp with Dual O/C Comparator	14-Dip	2.32	1.86	1.45
TLV2304IPWR	296-10516-1-ND	Dual Op Amp with Dual O/C Comparator	14-TSSOP	2.32	1.86	1.45
TLV2304IPWR	296-10516-2-ND	Dual Op Amp with Dual O/C Comparator	14-TSSOP	2626.00/2,000		
TLV2322ID	296-7458-5-ND	Dual Low Volt. Micropower Op Amp	8-SOIC	1.73	1.38	1.04
TLV2322IP	296-7459-5-ND	Dual Low Volt. Micropower Op Amp	8-Dip	1.73	1.38	1.04
TLV2322IPWR	296-7460-1-ND	Dual Low Volt. Micropower Op Amp	8-TSSOP	1.73	1.38	1.04
TLV2322IPWR	296-7460-2-ND	Dual Low Volt. Micropower Op Amp	8-TSSOP	1794.00/2,000		
TLV2324ID	296-7461-5-ND	Quad Low Volt. Micropower Op Amp	14-SOIC	2.28	1.82	1.37
TLV2324IN	296-7462-5-ND	Quad Low Volt. Micropower Op Amp	14-Dip	2.28	1.82	1.37
TLV2324IPW	296-7463-5-ND	Quad Low Volt. Micropower Op Amp	14-TSSOP	2.28	1.82	1.37
TLV2324IPWR	296-7464-1-ND	Quad Low Volt. Micropower Op Amp	14-TSSOP	2.28	1.82	1.37
TLV2324IPWR	296-7464-2-ND	Quad Low Volt. Micropower Op Amp	14-TSSOP	2366.00/2,000		
TLV2332ID	296-7465-5-ND	Dual LP Low Voltage Op Amp	8-SOIC	1.68	1.34	1.01

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLV2332IP	296-7466-5-ND	Dual LP Low Voltage Op Amp	8-Dip	1.68	1.34	1.01
TLV2332IPWR	296-7467-1-ND	Dual LP Low Voltage Op Amp	8-TSSOP	1.68	1.34	1.01
TLV2332IPWR	296-7467-2-ND	Dual LP Low Voltage Op Amp	8-TSSOP	1742.00/2,000		
TLV2334ID	296-7468-5-ND	Quad LP Low Voltage Op Amp	14-SOIC	2.35	1.88	1.41
TLV2334IN	296-7469-5-ND	Quad LP Low Voltage Op Amp	14-Dip	2.35	1.88	1.41
TLV2334IPWR	296-7470-1-ND	Quad LP Low Voltage Op Amp	14-TSSOP	2.35	1.88	1.41
TLV2334IPWR	296-7470-2-ND	Quad LP Low Voltage Op Amp	14-TSSOP	2444.00/2,000		
TLV2341ID	296-7471-5-ND	Low Voltage Programmable Op Amp	8-SOIC	1.93	1.54	1.16
TLV2341IP	296-7472-5-ND	Low Voltage Programmable Op Amp	8-Dip	1.93	1.54	1.16
TLV2342ID	296-7473-5-ND	Dual Low Volt. High-Speed Op Amp	8-SOIC	2.03	1.62	1.22
TLV2342IP	296-7474-5-ND	Dual Low Volt. High-Speed Op Amp	8-Dip	2.03	1.62	1.22
TLV2344ID	296-7475-5-ND	Quad Low Volt. High-Speed Op Amp	14-SOIC	2.54	2.04	1.59
TLV2344IN	296-7476-5-ND	Quad Low Volt. High-Speed Op Amp	14-Dip	2.54	2.04	1.59
TLV2344IPW	296-12999-5-ND	Quad Low Volt. High-Speed Op Amp	14-TSSOP	2.54	2.04	1.59
TLV2361CDBV	296-10523-5-ND	High Performance Low Voltage Op Amp	SOT-23-5	.87	.73	.58
TLV2361CDBVR	296-13798-1-ND	High Performance Low Voltage Op Amp	SOT-23-5	.80	.60	.45
TLV2361CDBVR	296-13798-2-ND	High Performance Low Voltage Op Amp	SOT-23-5	780.00/3,000		
TLV2361IDBVR	296-13745-1-ND	High Performance Low Voltage Op Amp	SOT-23-5	.75	.63	.50
TLV2361IDBVR	296-13745-2-ND	High Performance Low Voltage Op Amp	SOT-23-5	975.00/3,000		
TLV2362ID	296-10525-5-ND	Dual High Performance Op Amp	8-SOIC	.87	.73	.58
TLV2362IDGKR	296-13995-1-ND	High Performance Low Voltage Op Amp *NEW!*	8-MSOP	.96	.80	.64
TLV2362IDGKR	296-13995-2-ND	High Performance Low Voltage Op Amp *NEW!*	8-MSOP	1040.00/2,500		
TLV2362IP	296-10526-5-ND	Dual High Performance Op Amp	8-Dip	.87	.73	.58
TLV2362IPWR	296-10527-1-ND	Dual High Performance Op Amp	8-TSSOP	.87	.73	.58
TLV2362IPWR	296-10527-2-ND	Dual High Performance Op Amp	8-TSSOP	772.00/2,000		
TLV2370IDBVR	296-12617-1-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	SOT-23-6	1.17	.98	.78
TLV2370IDBVR	296-12617-2-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	SOT-23-6	1521.00/3,000		
TLV2370IDR	296-12298-1-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-SOIC	1.17	.98	.78
TLV2370IDR	296-12298-2-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-SOIC	1267.50/2,500		
TLV2370IP	296-12217-5-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-Dip	1.17	.98	.78
TLV2371IDBVR	296-13057-1-ND	550µA/Ch. 3MHz, R/R, I/O Op Amp	SOT-23-5	1.08	.90	.72
TLV2371IDBVR	296-13057-2-ND	550µA/Ch. 3MHz, R/R, I/O Op Amp	SOT-23-5	1404.00/3,000		
TLV2371IDR	296-12299-1-ND	550µA/Ch. 3MHz, R/R, I/O Op Amp	8-SOIC	1.08	.90	.72
TLV2371IDR	296-12299-2-ND	550µA/Ch. 3MHz, R/R, I/O Op Amp	8-SOIC	1170.00/2,500		
TLV2371IP	296-12218-5-ND	550µA/Ch. 3MHz, R/R, I/O Op Amp with Shutdown	8-Dip	1.08	.90	.72
TLV2372IDR	296-10528-1-ND	Dual 3MHz R-R I/O Op Amp	8-SOIC	1.32	1.10	.88
TLV2372IDR	296-10528-2-ND	Dual 3MHz R-R I/O Op Amp	8-SOIC	1430.00/2,500		
TLV2372IP	296-12219-5-ND	Dual 3MHz R-R I/O Op Amp	8-Dip	1.32	1.10	.88
TLV2373IDR	296-10529-1-ND	Dual 3MHz R-R, I/O Op Amp with Shutdown	14-SOIC	1.47	1.23	.98
TLV2373IDR	296-10529-2-ND	Dual 3MHz R-R, I/O Op Amp with Shutdown	14-SOIC	1592.50/2,500		
TLV2373IN	296-12220-5-ND	Dual 3MHz R-R, I/O Op Amp with Shutdown	14-Dip	1.47	1.23	.98
TLV2374IDR	296-11967-1-ND	Quad 3MHz R/R I/O Op Amp	14-SOIC	1.33	1.06	.80
TLV2374IDR	296-11967-2-ND	Quad 3MHz R/R I/O Op Amp	14-SOIC	1695.00/2,500		
TLV2374IPWR	296-11968-1-ND	Quad 3MHz R/R I/O Op Amp	14-TSSOP	1.33	1.06	.80
TLV2374IPWR	296-11968-2-ND	Quad 3MHz R/R I/O Op Amp	14-TSSOP	1378.00/2,000		
TLV2374IN	296-12221-5-ND	Quad 3MHz R-R I/O Op Amp	14-Dip	1.33	1.06	.80
TLV2375IDR	296-11969-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-SOIC	1.45	1.16	.87
TLV2375IDR	296-11969-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-SOIC	1855.00/2,500		
TLV2375IPWR	296-11970-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-TSSOP	1.45	1.16	.87
TLV2375IPWR	296-11970-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-TSSOP	1508.00/2,000		
TLV2375IN	296-12222-5-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-Dip	1.45	1.16	.87
TLV2381IDBVT	296-12223-1-ND	1-Channel, R-R, I/O Op Amp	SOT-23-5	1.30	1.04	.78
TLV2381IDBVT	296-12223-2-ND	1-Channel, R-R, I/O Op Amp	SOT-23-5	182.00/250		
TLV2381IDR	296-12224-1-ND	1-Channel, R-R, I/O Op Amp	8-SOIC	1.30	1.04	.78
TLV2381IDR	296-12224-2-ND	1-Channel, R-R, I/O Op Amp	8-SOIC	1665.00/2,500		
TLV2382IDR	296-12226-1-ND	2-Channel, R-R, I/O Op Amp	8-SOIC	1.75	1.40	1.05
TLV2382IDR	296-12226-2-ND	2-Channel, R-R, I/O Op Amp	8-SOIC	2240.00/2,500		
TLV2401CDR	296-10530-1-ND	Micropower Op Amp	8-SOIC	1.80	1.44	1.08
TLV2401CDR	296-10530-2-ND	Micropower Op Amp	8-SOIC	2304.00/2,500		
TLV2401IDBVT	296-10531-1-ND	Micropower Op Amp	SOT-23-5	1.90	1.52	1.14
TLV2401IDBVT	296-10531-2-ND	Micropower Op Amp	SOT-23-5	266.00/250		
TLV2401IDR	296-10532-1-ND	Micropower Op Amp	8-SOIC	1.90	1.52	1.14
TLV2401IDR	296-10532-2-ND	Micropower Op Amp	8-SOIC	2432.50/2,500		
TLV2401IP	296-10533-5-ND	Micropower Op Amp	8-Dip	1.90	1.52	1.14
TLV2402CDR	296-10534-1-ND	Dual Micropower R/R Op Amp	8-SOIC	2.25	1.80	1.35
TLV2402CDR	296-10534-2-ND	Dual Micropower R/R Op Amp	8-SOIC	2880.00/2,500		
TLV2402IDGK	296-13799-5-ND	Dual Micropower R/R Op Amp	8-MSOP	2.38	1.90	1.43
TLV2402IDR	296-10535-1-ND	Dual Micropower R/R Op Amp	8-SOIC	2.38	1.90	1.43
TLV2402IDR	296-10535-2-ND	Dual Micropower R/R Op Amp	8-SOIC	3040.00/2,500		
TLV2402IP	296-10536-5-ND	Dual Micropower R/R Op Amp	8-Dip	2.38	1.90	1.43
TLV2404AIN	296-13363-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-Dip	3.13	2.51	1.95
TLV2404CD	296-2427-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	2.84	2.27	1.77
TLV2404IDR	296-10537-1-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	2.99	2.40	1.87
TLV2404IDR	296-10537-2-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	4190.00/2,500		
TLV2404IN	296-10538-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-Dip	2.99	2.40	1.87

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLV2404IPWR	296-10539-1-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-TSSOP	2.99	2.40	1.87
TLV2404IPWR	296-10539-2-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-TSSOP	3392.00/2,000		
TLV2422AID	296-10540-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.75	1.40	1.05
TLV2422CD	296-10541-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.60	1.28	.96
TLV2422CPWR	296-10542-1-ND	Dual Micropower R/R Op Amp	8-TSSOP	1.60	1.28	.96
TLV2422CPWR	296-10542-2-ND	Dual Micropower R/R Op Amp	8-TSSOP	1664.00/2,000		
TLV2422ID	296-10543-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2422QD	296-10544-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.38	1.10	.83
TLV2432AID	296-10545-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.75	1.40	1.05
TLV2432AIPWR	296-10546-1-ND	Dual Micropower R/R Op Amp	8-TSSOP	1.75	1.40	1.05
TLV2432AIPWR	296-10546-2-ND	Dual Micropower R/R Op Amp	8-TSSOP	1820.00/2,000		
TLV2432AQD	296-10547-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.53	1.22	.92
TLV2432CD	296-10548-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.60	1.28	.96
TLV2432ID	296-10549-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2432QD	296-10550-5-ND	Dual Micropower R/R Op Amp	8-SOIC	1.45	1.16	.87
TLV2434AIDR	296-14409-1-ND	Quad R/R Micropower Op Amp *NEW!*	14-SOIC	2.43	1.94	1.46
TLV2434AIDR	296-14409-2-ND	Quad R/R Micropower Op Amp *NEW!*	14-SOIC	3105.00/2,500		
TLV2434AIPWR	296-10551-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.43	1.94	1.46
TLV2434AIPWR	296-10551-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	2522.00/2,000		
TLV2434CD	296-10552-5-ND	Quad R/R Micropower Op Amp	14-SOIC	2.20	1.76	1.32
TLV2434CPW	296-10553-5-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.20	1.76	1.32
TLV2434IDR	296-10554-1-ND	Quad R/R Micropower Op Amp	14-SOIC	2.33	1.86	1.40
TLV2434IDR	296-10554-2-ND	Quad R/R Micropower Op Amp	14-SOIC	2976.00/2,500		
TLV2434IPWR	296-10555-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.33	1.86	1.40
TLV2434IPWR	296-10555-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	2418.00/2,000		
TLV2442AIDR	296-10556-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2442AIDR	296-10556-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2145.00/2,500		
TLV2442AQD	296-10557-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.53	1.22	.92
TLV2442AQPW	296-10558-5-ND	Dual, Rail-to-Rail Op Amp	8-SOP	1.53	1.22	.92
TLV2442CD	296-10559-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.53	1.22	.92
TLV2442ID	296-10560-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.60	1.28	.96
TLV2442QD	296-10561-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.45	1.16	.87
TLV2442QPW	296-10562-5-ND	Dual, Rail-to-Rail Op Amp	8-TSSOP	1.50	1.20	.90
TLV2444AIPWR	296-10563-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.33	1.86	1.40
TLV2444AIPWR	296-10563-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2418.00/2,000		
TLV2444CD	296-10564-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.13	1.70	1.28
TLV2444CPW	296-10565-5-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.13	1.70	1.28
TLV2444IDR	296-10566-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.23	1.78	1.34
TLV2444IDR	296-10566-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2848.00/2,500		
TLV2444IPWR	296-10567-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.23	1.78	1.34
TLV2444IPWR	296-10567-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2314.00/2,000		
TLV2450AID	296-10568-5-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.50	1.20	.90
TLV2450AIDR	296-10568-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.50	1.20	.90
TLV2450AIDR	296-10568-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1920.00/2,500		
TLV2450AIP	296-10569-5-ND	Single, Rail-to-Rail Op Amp	8-Dip	1.50	1.20	.90
TLV2450CD	296-1884-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.38	1.10	.83
TLV2450CDBVR	296-10570-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	1.38	1.10	.83
TLV2450CDBVR	296-10570-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	2112.00/3,000		
TLV2450CP	296-1885-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.38	1.10	.83
TLV2450ID	296-1886-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.45	1.16	.87
TLV2450IDBVR	296-10571-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	1.45	1.16	.87
TLV2450IDBVR	296-10571-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	2226.00/3,000		
TLV2450IP	296-1887-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.45	1.16	.87
TLV2451AID	296-10572-5-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.38	1.10	.83
TLV2451AIDR	296-10572-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.38	1.10	.83
TLV2451AIDR	296-10572-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1760.00/2,500		
TLV2451AIP	296-10573-5-ND	Single, Rail-to-Rail Op Amp	8-Dip	1.38	1.10	.83
TLV2451CD	296-1888-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.25	1.00	.75
TLV2451CDR	296-1888-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.25	1.00	.75
TLV2451CDR	296-1888-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1600.00/2,500		
TLV2451CDBVR	296-10574-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	1.25	1.00	.75
TLV2451CDBVR	296-10574-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	1920.00/3,000		
TLV2451CP	296-1889-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.25	1.00	.75
TLV2451ID	296-1890-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.25	1.00	.75
TLV2451IDR	296-1890-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.33	1.06	.80
TLV2451IDR	296-1890-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1695.00/2,500		
TLV2451IDBVR	296-10576-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	1.33	1.06	.80
TLV2451IDBVR	296-10576-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	2034.00/3,000		
TLV2451IP	296-1891-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.33	1.06	.80
TLV2452AIDR	296-10578-1-ND	Dual, Rail-to-Rail Op Amp	8-SOP	1.98	1.58	1.19
TLV2452AIDR	296-10578-2-ND	Dual, Rail-to-Rail Op Amp	8-SOP	2528.00/2,500		
TLV2452AIP	296-10579-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	1.98	1.58	1.19
TLV2452CD	296-2428-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.80	1.44	1.08
TLV2452CDR	296-2428-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.80	1.44	1.08
TLV2452CDR	296-2428-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2304.00/2,500		
TLV2452CDGKR	296-10580-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	1.80	1.44	1.08
TLV2452CDGKR	296-10580-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2304.00/2,500		
TLV2452IDGKR	296-10582-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	1.90	1.52	1.14
TLV2452IDGKR	296-10582-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2432.00/2,500		
TLV2452IDR	296-10583-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2452IDR	296-10583-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2432.00/2,500		
TLV2452IP	296-10584-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	1.90	1.52	1.14
TLV2453AIDR	296-10585-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.18	1.74	1.31
TLV2453AIDR	296-10585-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2785.00/2,500		
TLV2453AIN	296-10586-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.18	1.74	1.31
TLV2453CD	296-2429-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	1.98	1.58	1.19
TLV2453CDR	296-2429-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	1.98	1.58	1.19
TLV2453CDR	296-2429-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2528.00/2,500		
TLV2453CDGSR	296-10587-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	1.98	1.58	1.19
TLV2453CDGSR	296-10587-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2528.00/2,500		
TLV2453IDGSR	296-10589-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.08	1.66	1.25
TLV2453IDGSR	296-10589-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2656.00/2,500		
TLV2453IDR	296-10590-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.08	1.66	1.25
TLV2453IDR	296-10590-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2656.00/2,500		
TLV2453IN	296-10591-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.08	1.66	1.25
TLV2454AID	296-10592-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.32	1.86	1.45
TLV2454AIDR	296-10592-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.32	1.86	1.45

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2454AIDR	296-10592-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3245.00/2,500		
TLV2454AIN	296-10593-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.32	1.86	1.45
TLV2454AIPWR	296-10594-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.32	1.86	1.45
TLV2454AIPWR	296-10594-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2626.00/2,000		
TLV2454CD	296-2430-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.35	1.88	1.41
TLV2454CN	296-10595-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.35	1.88	1.41
TLV2454ID	296-10596-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.48	1.98	1.49
TLV2454IDR	296-10597-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.48	1.98	1.49
TLV2454IDR	296-10597-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3167.50/2,500		
TLV2454IN	296-10598-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.48	1.98	1.49
TLV2454IPWR	296-10599-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.48	1.98	1.49
TLV2454IPWR	296-10599-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2574.00/2,000		
TLV2455AID	296-10600-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.54	2.04	1.59
TLV2455AIDR	296-10600-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.54	2.04	1.59
TLV2455AIDR	296-10600-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3560.00/2,500		
TLV2455AIN	296-10601-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.54	2.04	1.59
TLV2455AIPWR	296-10602-1-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2.54	2.04	1.59
TLV2455AIPWR	296-10602-2-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2882.00/2,000		
TLV2455CD	296-2431-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.32	1.86	1.45
TLV2455CN	296-10603-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.32	1.86	1.45
TLV2455CPWR	296-10604-1-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2.32	1.86	1.45
TLV2455CPWR	296-10604-2-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2626.00/2,000		
TLV2455ID	296-10605-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.43	1.95	1.52
TLV2455IDR	296-10605-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.43	1.95	1.52
TLV2455IDR	296-10605-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3402.50/2,500		
TLV2455IN	296-10606-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.43	1.95	1.52
TLV2455IPWR	296-10607-1-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2.43	1.95	1.52
TLV2455IPWR	296-10607-2-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2754.00/2,000		
TLV2460AIDR	296-7477-1-ND	LP R/R In/Out Op Amp with Shutdown	8-SOIC	1.50	1.20	.90
TLV2460AIDR	296-7477-2-ND	LP R/R In/Out Op Amp with Shutdown	8-SOIC	1920.00/2,500		
TLV2460AIP	296-7478-5-ND	LP R/R In/Out Op Amp with Shutdown	8-Dip	1.50	1.20	.90
TLV2460CD	296-2432-5-ND	LP R/R In/Out Op Amp with Shutdown	8-SOIC	1.38	1.10	.83
TLV2460CDR	296-2432-1-ND	LP R/R In/Out Op Amp with Shutdown	8-SOIC	1.38	1.10	.83
TLV2460CDR	296-2432-2-ND	LP R/R In/Out Op Amp with Shutdown	8-SOIC	1760.00/2,500		
TLV2460CDBVR	296-7479-1-ND	LP R/R In/Out Op Amp with Shutdown	SOT-23-6	1.38	1.10	.83
TLV2460CDBVR	296-7479-2-ND	LP R/R In/Out Op Amp with Shutdown	SOT-23-6	2112.00/3,000		
TLV2460CP	296-7480-5-ND	LP R/R In/Out Op Amp with Shutdown	8-Dip	1.38	1.10	.83
TLV2460IDBVR	296-7481-1-ND	LP R/R In/Out Op Amp with Shutdown	SOT-23-6	1.45	1.16	.87
TLV2460IDBVR	296-7481-2-ND	LP R/R In/Out Op Amp with Shutdown	SOT-23-6	2226.00/3,000		
TLV2460IDR	296-7482-1-ND	LP R/R In/Out Op Amp with Shutdown	8-SOIC	1.45	1.16	.87
TLV2460IDR	296-7482-2-ND	LP R/R In/Out Op Amp with Shutdown	8-SOIC	1855.00/2500		
TLV2460IP	296-7483-5-ND	LP R/R In/Out Op Amp with Shutdown	8-Dip	1.45	1.16	.87
TLV2461AIDR	296-7484-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.38	1.10	.83
TLV2461AIDR	296-7484-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1760.00/2,500		
TLV2461AIP	296-7485-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.38	1.10	.83
TLV2461CD	296-7486-5-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.25	1.00	.75
TLV2461CDBVR	296-7487-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.25	1.00	.75
TLV2461CDBVR	296-7487-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1920.00/3,000		
TLV2461CDBVT	296-2433-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.25	1.00	.75
TLV2461CDBVT	296-2433-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	175.00/250		
TLV2461CDR	296-7488-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.25	1.00	.75
TLV2461CDR	296-7488-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1600.00/2,500		
TLV2461CP	296-7489-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.25	1.00	.75
TLV2461IDBVR	296-7490-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.33	1.06	.80
TLV2461IDBVR	296-7490-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2034.00/3,000		
TLV2461IDR	296-7491-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.33	1.06	.80
TLV2461IDR	296-7491-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1695.00/2,500		
TLV2461IP	296-7492-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.33	1.06	.80
TLV2462AIDR	296-7557-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.98	1.58	1.19
TLV2462AIDR	296-7557-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2528.00/2,500		
TLV2462AIP	296-7558-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	1.98	1.58	1.19
TLV2462AQD	296-12066-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.36	1.89	1.47
TLV2462AQPWR	296-12067-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-TSSOP	2.36	1.89	1.47
TLV2462AQPWR	296-12067-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-TSSOP	2793.00/2,000		
TLV2462CD	296-2434-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.80	1.44	1.08
TLV2462CDR	296-2434-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.80	1.44	1.08
TLV2462CDR	296-2434-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2304.00/2,500		
TLV2462CP	296-1892-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	1.80	1.44	1.08
TLV2462ID	296-7562-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.90	1.52	1.14
TLV2462IDR	296-7562-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.90	1.52	1.14
TLV2462IDR	296-7562-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2432.00/2,500		
TLV2462IDGKR	296-7561-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-MSOP	1.90	1.52	1.14
TLV2462IDGKR	296-7561-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-MSOP	2432.00/2,500		
TLV2462IP	296-1893-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	1.90	1.52	1.14
TLV2462QD	296-12068-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.27	1.82	1.42
TLV2463AIDR	296-7563-1-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.18	1.74	1.31
TLV2463AIDR	296-7563-2-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2785.00/2,500		
TLV2463AIN	296-7564-5-ND	Dual LP R/R I/O Op Amp with SD	14-Dip	2.18	1.74	1.31
TLV2463AQD	296-12069-5-ND	Dual LP R/R I/O Op Amp with SD	8-SOIC	2.61	2.09	1.63
TLV2463AQPWR	296-12070-1-ND	Dual LP R/R I/O Op Amp with SD	8-TSSOP	2.61	2.09	1.63
TLV2463AQPWR	296-12070-2-ND	Dual LP R/R I/O Op Amp with SD	8-TSSOP	2958.00/2,000		
TLV2463CD	296-2435-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	1.98	1.58	1.19
TLV2463CDR	296-2435-1-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	1.98	1.58	1.19
TLV2463CDR	296-2435-2-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2528.00/2,500		
TLV2463CDGS	296-7565-5-ND	Dual LP R/R I/O Op Amp with SD	10-SOP	1.98	1.58	1.19
TLV2463CN	296-7567-5-ND	Dual LP R/R I/O Op Amp with SD	14-Dip	1.98	1.58	1.19
TLV2463ID	296-1894-5-ND	Dual LP Rail-to-Rail Op Amp	14-SOIC	2.08	1.66	1.25
TLV2463IDGSR	296-7568-1-ND	Dual LP R/R I/O Op Amp w/SD	10-SOP	2.08	1.66	1.25
TLV2463IDGSR	296-7568-2-ND	Dual LP R/R I/O Op Amp w/SD	10-SOP	2656.00/2,500		
TLV2463IN	296-1895-5-ND	Dual LP R/R Op Amp	14-Dip	2.08	1.66	1.25
TLV2463QD	296-12071-5-ND	Dual LP R/R I/O Op Amp w/SD	8-SOIC	2.48	1.98	1.54
TLV2463QPWR	296-12072-1-ND	Dual LP R/R I/O Op Amp w/SD	8-TSSOP	2.48	1.98	1.54
TLV2463QPWR	296-12072-2-ND	Dual LP R/R I/O Op Amp w/SD	8-TSSOP	2806.00/2,000		
TLV2464AIDR	296-14410-1-ND	Quad LP R/R I/O Op Amp *NEW!*	14-SOIC	2.32	1.86	1.45
TLV2464AIDR	296-14410-2-ND	Quad LP R/R I/O Op Amp *NEW!*	14-SOIC	3245.00/2,500		
TLV2464CD	296-2436-5-ND	Quad LP R/R I/O Op Amp	14-SOIC	2.35	1.88	1.41
TLV2464CDR	296-2436-1-ND	Quad LP R/R I/O Op Amp	14-SOIC	2.35	1.88	1.41
TLV2464CDR	296-2436-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	3007.50/2,500		
TLV2464CN	296-7570-5-ND	Quad LP R/R I/O Op Amp	14-Dip	2.35	1.88	1.41
TLV2464CPWR	296-7571-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.35	1.88	1.41
TLV2464CPWR	296-7571-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2444.00/2,000		
TLV2464ID	296-10608-5-ND	Quad LP R/R Op Amp	14-SOIC	2.48	1.98	1.49
TLV2464IDR	296-10608-1-ND	Quad LP R/R Op Amp	14-SOIC	2.48	1.98	1.49
TLV2464IDR	296-10608-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	3167.50/2,500		
TLV2464IN	296-7573-5-ND	Quad LP R/R I/O Op Amp	14-Dip	2.48	1.98	1.49
TLV2464IPWR	296-7575-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.48	1.98	1.49
TLV2464IPWR	296-7575-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2574.00/2,000		
TLV2465CD	296-2437-5-ND	Quad LP R/R I/O Op Amp w/SD	16-SOIC	2.32	1.86	1.45
TLV2465CDR	296-2437-1-ND	Quad LP R/R I/O Op Amp w/SD	16-SOIC	2.32	1.86	1.45
TLV2465CDR	296-2437-2-ND	Quad LP R/R I/O Op Amp w/SD	16-SOIC	3245.00/2,500		
TLV2465CN	296-7577-5-ND	Quad LP R/R I/O Op Amp w/SD	16-Dip	2.32	1.86	1.45
TLV2465CPWR	296-7578-1-ND	Quad LP R/R I/O Op Amp w/SD	16-TSSOP	2.32	1.86	1.45
TLV2465CPWR	296-7578-2-ND	Quad LP R/R I/O Op Amp w/SD	16-TSSOP	2626.00/2,000		
TLV2465ID	296-10609-5-ND	Quad LP R/R I/O Op Amp w/SD	16-SOIC	2.43	1.95	1.52
TLV2465ID	296-10609-1-ND	Quad LP R/R I/O Op Amp w/SD	16-SOIC	2.43	1.95	1.52
TLV2465IDR	296-10609-2-ND	Quad LP R/R I/O Op Amp w/SD	16-SOIC	3402.50/2,500		
TLV2465IN	296-7580-5-ND	Quad LP R/R I/O Op Amp w/SD	16-Dip	2.43	1.95	1.52
TLV2465IPWR	296-7581-1-ND	Quad LP R/R I/O Op Amp w/SD	16-TSSOP	2.43	1.95	1.52
TLV2465IPWR	296-7581-2-ND	Quad LP R/R I/O Op Amp w/SD	16-TSSOP	2754.00/2,000		
TLV2470AIDR	296-7493-1-ND	LP R-R I/O Op Amp with Shutdown	8-SOIC	1.50	1.20	.90
TLV2470AIDR	296-7493-2-ND	LP R-R I/O Op Amp with Shutdown	8-SOIC	1920.00/2,500		
TLV2470AIP	296-7494-5-ND	LP R-R I/O Op Amp with Shutdown	8-Dip	1.50	1.20	.90
TLV2470CD	296-2438-5-ND	LP R-R I/O Op Amp with Shutdown	8-SOIC	1.38	1.10	.83
TLV2470CDR	296-2438-1-ND	LP R-R I/O Op Amp with Shutdown	8-SOIC	1.38	1.10	.83
TLV2470CDR	296-2438-2-ND	LP R-R I/O Op Amp with Shutdown	8-SOIC	1760.00/2,500		
TLV2470CDBVR	296-7495-1-ND	LP R-R I/O Op Amp with Shutdown	SOT-23-5	1.38	1.10	.83
TLV2470CDBVR	296-7495-2-ND	LP R-R I/O Op Amp with Shutdown	SOT-23-5	2112.00/3,000		
TLV2470CP	296-7496-5-ND	LP R-R I/O Op Amp with Shutdown	8-Dip	1.38	1.10	.83
TLV2470IDBVR	296-7497-1-ND	LP R-R I/O Op Amp with Shutdown	SOT-23-5	1.45	1.16	.87
TLV2470IDBVR	296-7497-2-ND	LP R-R I/O Op Amp with Shutdown	SOT-23-5	2226.00/3,000		
TLV2470IDR	296-7498-1-ND	LP R-R I/O Op Amp with Shutdown	8-SOIC	1.45	1.16	.87
TLV2470IDR	296-7498-2-ND	LP R-R I/O Op Amp with Shutdown	8-SOIC	1855.00/2,500		
TLV2470IP	296-7499-5-ND	LP R-R I/O Op Amp with Shutdown	8-Dip	1.45	1.16	.87
TLV2471AIDR	296-7500-1-ND	LP Rail-to-Rail In/Out Op Amp	8-SOIC	1.38	1.10	.83
TLV2471AIDR	296-7500-2-ND	LP Rail-to-Rail In/Out Op Amp	8-SOIC	1760.00/2,500		
TLV2471AIP	296-7501-5-ND	LP Rail-to-Rail In/Out Op Amp	8-Dip	1.38	1.10	.83
TLV2471CD	296-2439-5-ND	LP Rail-to-Rail In/Out Op Amp	8-SOIC	1.25	1.00	.75
TLV2471CDR	296-2439-1-ND	LP Rail-to-Rail In/Out Op Amp	8-SOIC	1.25	1.00	.75
TLV2471CDR	296-2439-2-ND	LP Rail-to-Rail In/Out Op Amp	8-SOIC	1600.00/2,500		
TLV2471CDBVR	296-7502-1-ND	LP Rail-to-Rail In/Out Op Amp	SOT-23-5	1.25	1.00	.75
TLV2471CDBVR	296-7502-2-ND	LP Rail-to-Rail In/Out Op Amp	SOT-23-5	1920.00/3,000		
TLV2471CP	296-7503-5-ND	LP Rail-to-Rail In/Out Op Amp	8-Dip	1.25	1.00	.75
TLV2471IDBVR	296-7504-1-ND	LP Rail-to-Rail In/Out Op Amp	SOT-23-5	1.33	1.06	.80
TLV2471IDBVR	296-7504-2-ND	LP Rail-to-Rail In/Out Op Amp	SOT-23-5	2034.00/3,000		
TLV2471IDR	296-7505-1-ND	LP Rail-to-Rail In/Out Op Amp	8-SOIC	1.33	1.06	.80
TLV2471IDR	296-7505-2-ND	LP Rail-to-Rail In/Out Op Amp	8-SOIC	1695.00/2,500		
TLV2471IP	296-7506-5-ND	LP Rail-to-Rail In/Out Op Amp	8-Dip	1.33	1.06	.80
TLV2472AID	296-10610-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.98	1.58	1.19
TLV2472AIDR	296-10610-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.98	1.58	1.19
TLV2472AIDR	296-10610-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2528.00/2,500		
TLV2472AIP	296-10611-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	1.98	1.58	1.19
TLV2472CDGNR	296-10612-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	1.80	1.44	1.08
TLV2472CDGNR	296-10612-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2304.00/2,500		
TLV2472CD	296-2440-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.80	1.44	1.08
TLV2472CDR	296-2440-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.80	1.44	1.08
TLV2472CDR	296-2440-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2304.00/2,500		
TLV2472IDGNR	296-10615-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	1.90	1.52	1.14
TLV2472IDGNR	296-10615-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2432.00/2,500		
TLV2472ID	296-10614-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2472IDR	296-10616-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2472IDR	296-10616-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2432.00/2,500		
TLV2472IP	296-10617-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	1.90	1.52	1.14
TLV2473AID	296-10618-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.18	1.74	1.31
TLV2473AIDR	296-10618-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.18	1.74	1.31
TLV2473AIDR	296-10618-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2785.00/2,500		
TLV2473AIN	296-10619-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.18	1.74	1.31
TLV2473CDGQR	296-10620-1-ND	Dual, Rail-to-Rail Op Amp	10-SOP	1.98	1.58	1.19
TLV2473CDGQR	296-10620-2-ND	Dual, Rail-to-Rail Op Amp	10-SOP	2528.00/2,500		
TLV2473CD	296-2441-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	1.98	1.58	1.19
TLV2473CDR	296-2441-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	1.98	1.58	1.19
TLV2473CDR	296-2441-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2528.00/2,500		
TLV2473ID	296-10622-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.08	1.66	1.25
TLV2473IDGQR	296-10623-1-ND	Dual, Rail-to-Rail Op Amp	10-SOP	2.08	1.66	1.25
TLV2473IDGQR	296-10623-2-ND	Dual, Rail-to-Rail Op Amp	10-SOP	2656.00/2,500		
TLV2473IDR	296-10624-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.08	1.66	1.25
TLV2473IDR	296-10624-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2656.00/2,500		
TLV2473IN	296-10625-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.08	1.66	1.25
TLV2474AIDR	296-10626-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.32	1.86	1.45
TLV2474AIDR	296-10626-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3245.00/2,500		
TLV2474AIN	296-10627-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.32	1.86	1.45
TLV2474AIPWPR	296-10628-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.43	1.95	1.52
TLV2474AIPWPR	296-10628-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2754.00/2,000		
TLV2474AIPWR	296-13364-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2.32	1.86	1.45
TLV2474AIPWR	296-13364-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2626.00/2,000		
TLV2474CD	296-2442-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.35	1.88	1.41
TLV2474CDR	296-2442-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.35	1.88	1.41
TLV2474CDR	296-2442-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3007.50/2,500		
TLV2474CN	296-10630-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.35	1.88	1.41
TLV2474CPWPR	296-10631-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.48	1.98	1.49
TLV2474CPWPR	296-10631-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2574.00/2,000		
TLV2474IDR	296-10632-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.48	1.98	1.49
TLV2474IDR	296-10632-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3167.50/2,500		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2474IN	296-10633-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.48	1.98	1.49
TLV2474IPWPR	296-12009-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.32	1.86	1.45
TLV2474IPWPR	296-12009-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2626.00/2,000		
TLV2475AIDR	296-10634-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.54	2.04	1.59
TLV2475AIDR	296-10634-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3560.00/2,500		
TLV2475AIN	296-10635-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.54	2.04	1.59
TLV2475AIPWPR	296-10636-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.66	2.13	1.66
TLV2475AIPWPR	296-10636-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	3010.00/2,000		
TLV2475CD	296-2443-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.32	1.86	1.45
TLV2475CDR	296-2443-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.32	1.86	1.45
TLV2475CDR	296-2443-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3245.00/2,500		
TLV2475CN	296-10638-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.32	1.86	1.45
TLV2475CPWPR	296-10639-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.43	1.95	1.52
TLV2475CPWPR	296-10639-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2754.00/2,000		
TLV2475IDR	296-10640-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.43	1.95	1.52
TLV2475IDR	296-10640-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3402.50/2,500		
TLV2475IN	296-10641-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.43	1.95	1.52
TLV2475IPWPR	296-10642-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.54	2.04	1.59
TLV2475IPWPR	296-10642-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2882.00/2,000		
TLV2620IDR	296-11662-1-ND	Single Supply Op Amp	8-SOIC	1.35	1.08	.81
TLV2620IDR	296-11662-2-ND	Single Supply Op Amp	8-SOIC	1727.50/2,500		
TLV2621IDR	296-11667-1-ND	Single Supply Op Amp	8-SOIC	1.47	1.23	.98
TLV2621IDR	296-11667-2-ND	Single Supply Op Amp	8-SOIC	1592.50/2,500		
TLV2622IDGKR	296-10647-1-ND	Dual, R/R, HS Op Amp	8-MSOP	1.60	1.28	.96
TLV2622IDGKR	296-10647-2-ND	Dual, R/R, HS Op Amp	8-MSOP	2048.00/2,500		
TLV2622IDR	296-10648-1-ND	Dual, R/R, HS Op Amp	8-SOIC	1.60	1.28	.96
TLV2622IDR	296-10648-2-ND	Dual, R/R, HS Op Amp	8-SOIC	2048.00/2,500		
TLV2623IDGSR	296-10649-1-ND	Dual, R/R, LP Op Amp	10-MSOP	1.75	1.40	1.05
TLV2623IDGSR	296-10649-2-ND	Dual, R/R, LP Op Amp	10-MSOP	2240.00/2,500		
TLV2623IDR	296-10650-1-ND	Dual, R/R, LP Op Amp	14-SOIC	1.75	1.40	1.05
TLV2623IDR	296-10650-2-ND	Dual, R/R, LP Op Amp	14-SOIC	2240.00/2,500		
TLV2624IDR	296-11665-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.23	1.78	1.34
TLV2624IDR	296-11665-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2847.50/2,500		
TLV2624IPWR	296-11655-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.23	1.78	1.34
TLV2624IPWR	296-11655-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2314.00/2,000		
TLV2625IDR	296-11695-1-ND	Low Voltage Quad Op Amp	16-SOIC	2.43	1.94	1.46
TLV2625IDR	296-11695-2-ND	Low Voltage Quad Op Amp	16-SOIC	3105.00/2,500		
TLV2625IPWR	296-11669-1-ND	Low Voltage Quad Op Amp	16-TSSOP	2.43	1.94	1.46
TLV2625IPWR	296-11669-2-ND	Low Voltage Quad Op Amp	16-TSSOP	2522.00/2,000		
TLV2630IDBVR	296-11971-1-ND	9MHz R-R Output Op Amp with SD	SOT-23-6	1.68	1.34	1.01
TLV2630IDBVR	296-11971-2-ND	9MHz R-R Output Op Amp with SD	SOT-23-6	2574.00/3,000		
TLV2630IDR	296-11972-1-ND	9MHz R-R Output Op Amp with SD	8-SOIC	1.68	1.34	1.01
TLV2630IDR	296-11972-2-ND	9MHz R-R Output Op Amp with SD	8-SOIC	2145.00/2,500		
TLV2631IDBVR	296-11973-1-ND	9MHz Rail-to-Rail Output Op Amp	SOT-23-5	1.40	1.12	.84
TLV2631IDBVR	296-11973-2-ND	9MHz Rail-to-Rail Output Op Amp	SOT-23-5	2150.40/3,000		
TLV2631IDR	296-11974-1-ND	9MHz Rail-to-Rail Output Op Amp	8-SOIC	1.40	1.12	.84
TLV2631IDR	296-11974-2-ND	9MHz Rail-to-Rail Output Op Amp	8-SOIC	1792.00/2,500		
TLV2632IDGKR	296-13368-1-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-MSOP	2.10	1.68	1.26
TLV2632IDGKR	296-13368-2-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-MSOP	2687.50/2,500		
TLV2632IDR	296-11975-1-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-SOIC	2.10	1.68	1.26
TLV2632IDR	296-11975-2-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-SOIC	2687.50/2,500		
TLV2633IDGSR	296-13369-1-ND	Dual, LP, Wide Bandwidth, Single Supply R/R Op Amp w/Shutdown	10-MSOP	2.30	1.84	1.38
TLV2633IDGSR	296-13369-2-ND	Dual, LP, Wide Bandwidth, Single Supply R/R Op Amp w/Shutdown	10-MSOP	2945.00/2,500		
TLV2633IDR	296-11976-1-ND	Dual, LP, Wide Bandwidth, Single Supply R/R Op Amp w/Shutdown	14-SOIC	2.30	1.84	1.38
TLV2633IDR	296-11976-2-ND	Dual, LP, Wide Bandwidth, Single Supply R/R Op Amp w/Shutdown	14-SOIC	2945.00/2,500		
TLV2634IDR	296-11977-1-ND	Quad 9MHz Rail-to-Rail Output Op Amp	14-SOIC	2.63	2.11	1.64
TLV2634IDR	296-11977-2-ND	Quad 9MHz Rail-to-Rail Output Op Amp	14-SOIC	3685.00/2,500		
TLV2634IPWR	296-11978-1-ND	Quad 9MHz Rail-to-Rail Output Op Amp	14-TSSOP	2.63	2.11	1.64
TLV2634IPWR	296-11978-2-ND	Quad 9MHz Rail-to-Rail Output Op Amp	14-TSSOP	2984.00/2,000		
TLV2635IDR	296-11979-1-ND	Quad 9MHz Rail-to-Rail Output Op Amp with Shutdown	16-SOIC	2.88	2.31	1.80
TLV2635IDR	296-11979-2-ND	Quad 9MHz Rail-to-Rail Output Op Amp with Shutdown	16-SOIC	4032.50/2,500		
TLV2635IPWR	296-11980-1-ND	Quad 9MHz Rail-to-Rail Output Op Amp with Shutdown	16-TSSOP	2.88	2.31	1.80
TLV2635IPWR	296-11980-2-ND	Quad 9MHz Rail-to-Rail Output Op Amp with Shutdown	16-TSSOP	3264.00/2,000		
TLV2711CDBVR	296-10651-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	.99	.83	.66
TLV2711CDBVR	296-10651-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1287.00/3,000		
TLV2711IDBVR	296-10652-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.02	.85	.68
TLV2711IDBVR	296-10652-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1326.00/3,000		
TLV2721CDBVR	296-10653-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.05	.88	.70
TLV2721CDBVR	296-10653-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1365.00/3,000		
TLV2721IDBVR	296-10654-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2721IDBVR	296-10654-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2731CDBVR	296-10656-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.05	.88	.70
TLV2731CDBVR	296-10656-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1365.00/3,000		
TLV2731IDBVR	296-10657-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2731IDBVR	296-10657-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2760ID	296-10658-5-ND	Micropower R-to-R Op Amp	8-SOIC	1.50	1.20	.90
TLV2760IDBVT	296-10659-5-ND	Micropower R-to-R Op Amp	SOT-23-6	1.50	1.20	.90
TLV2760IP	296-10660-5-ND	Micropower R-to-R Op Amp	8-Dip	1.50	1.20	.90
TLV2761ID	296-10661-5-ND	Micropower R-to-R Op Amp	8-SOIC	1.38	1.10	.83
TLV2761IDBVT	296-10662-1-ND	Micropower R-to-R Op Amp	SOT-23-5	1.38	1.10	.83
TLV2761IDBVT	296-10662-2-ND	Micropower R-to-R Op Amp	SOT-23-5	192.50/250		
TLV2761IP	296-10663-5-ND	Low Power, Single R/R Op Amp	8-Dip	1.38	1.10	.83
TLV2762IDGKR	296-10664-1-ND	HS, Dual Rail-to-Rail Op Amp	8-TSSOP	2.00	1.60	1.20
TLV2762IDGKR	296-10664-2-ND	HS, Dual Rail-to-Rail Op Amp	8-TSSOP	2560.00/2,500		
TLV2762IDR	296-10665-1-ND	Low Power, Dual R/R Op Amp	8-SOIC	2.00	1.60	1.20
TLV2762IDR	296-10665-2-ND	Low Power, Dual R/R Op Amp	8-SOIC	2560.00/2,500		
TLV2763CD	296-10666-5-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.10	1.68	1.26
TLV2763CDR	296-10666-1-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.10	1.68	1.26
TLV2763CDR	296-10666-2-ND	Low Power, Dual R/R Op Amp	14-SOIC	2687.50/2,500		
TLV2763IDGSR	296-10667-1-ND	Low Power, Dual R/R Op Amp	10-TSSOP	2.18	1.74	1.31
TLV2763IDGSR	296-10667-2-ND	Low Power, Dual R/R Op Amp	10-TSSOP	2785.00/2,500		
TLV2763IDR	296-10668-1-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.18	1.74	1.31
TLV2763IDR	296-10668-2-ND	Low Power, Dual R/R Op Amp	14-SOIC	2785.00/2,500		
TLV2763IN	296-10669-5-ND	Low Power, Dual R/R Op Amp	14-Dip	2.18	1.74	1.31
TLV2464AIPW	296-14050-5-ND	Low Power R/R Input/Output Op Amp with Shutdown *NEW!*	14-TSSOP	2.32	1.86	1.45
TLV2764IDR	296-10670-1-ND	Micropower Single R/R Op Amp	14-SOIC	2.34	1.88	1.46
TLV2764IDR	296-10670-2-ND	Micropower Single R/R Op Amp	14-SOIC	3275.00/2,500		
TLV2764IN	296-14051-5-ND	1.8V Micropower R/R Input/Output Op Amp with Shutdown *NEW!*	14-Dip	2.34	1.88	1.46
TLV2764IPWR	296-10671-1-ND	Micropower Single R/R Op Amp	14-TSSOP	2.34	1.88	1.46
TLV2764IPWR	296-10671-2-ND	Micropower Single R/R Op Amp	14-TSSOP	2652.00/2,000		
TLV2765IDR	296-10672-1-ND	Micropower Single R/R Op Amp	16-SOIC	2.57	2.06	1.60
TLV2765IDR	296-10672-2-ND	Micropower Single R/R Op Amp	16-SOIC	3590.00/2,500		
TLV2765IPWR	296-10673-1-ND	Micropower Single R/R Op Amp	16-TSSOP	2.57	2.06	1.60
TLV2765IPWR	296-10673-2-ND	Micropower Single R/R Op Amp	16-TSSOP	2908.00/2,000		
TLV2770AIDR	296-7582-1-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	1.70	1.36	1.02
TLV2770AIDR	296-7582-2-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	2175.00/2,500		
TLV2770AIP	296-7583-5-ND	Single 2.7V R/R Op Amp w/Shutdown	8-Dip	1.70	1.36	1.02
TLV2770CD	296-1896-5-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	1.58	1.26	.95
TLV2770CDR	296-1896-1-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	1.58	1.26	.95
TLV2770CDR	296-1896-2-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	2015.00/2,500		
TLV2770CDGKR	296-7584-1-ND	Single 2.7V R/R Op Amp w/Shutdown	8-MSOP	1.58	1.26	.95
TLV2770CDGKR	296-7584-2-ND	Single 2.7V R/R Op Amp w/Shutdown	8-MSOP	2015.00/2,500		
TLV2770CP	296-1897-5-ND	Rail-to-Rail Operational Amplifier	8-Dip	1.58	1.26	.95
TLV2770ID	296-1898-5-ND	Single 2.7V R/R I/O Op Amp w/SD	8-SOIC	1.65	1.32	.99
TLV2770IDR	296-1898-1-ND	Single 2.7V R/R I/O Op Amp w/SD	8-SOIC	1.65	1.32	.99
TLV2770IDR	296-1898-2-ND	Single 2.7V R/R I/O Op Amp w/SD	8-SOIC	2112.00/2,500		
TLV2770IDGKR	296-7585-1-ND	Single 2.7V R/R Op Amp w/Shutdown	8-MSOP	1.65	1.32	.99
TLV2770IDGKR	296-7585-2-ND	Single 2.7V R/R Op Amp w/Shutdown	8-MSOP	2112.00/2,500		
TLV2770IP	296-1899-5-ND	Rail-to-Rail Op Amp	8-Dip	1.65	1.32	.99
TLV2771AIDR	296-7586-1-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.58	1.26	.95
TLV2771AIDR	296-7586-2-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	2015.00/2,500		
TLV2771CD	296-1900-5-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2771CDR	296-1900-1-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2771CDR	296-1900-2-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1825.00/2,500		
TLV2771CDBVR	296-1346-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.43	1.14	.86
TLV2771CDBVR	296-1346-2-ND	Rail-to-Rail Op Amp	SOT-23-5	2190.00/3,000		
TLV2771IDBVR	296-1347-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.50	1.20	.90
TLV2771IDBVR	296-1347-2-ND	Rail-to-Rail Op Amp	SOT-23-5	2304.00/3,000		
TLV2771ID	296-10674-5-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	1.50	1.20	.90
TLV2771IDR	296-10674-1-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	1.50	1.20	.90
TLV2771IDR	296-10674-2-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	1920.00/2,500		
TLV2772AID	296-7587-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.35
TLV2772AIDR	296-7587-1-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.35
TLV2772AIDR	296-7587-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2880.00/2,500		
TLV2772AIP	296-7588-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.25	1.80	1.35
TLV2772AMD	296-7589-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.45	1.97	1.53
TLV2772AQD	296-10675-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.45	1.96	1.47
TLV2772AQPW	296-10676-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-TSSOP	2.45	1.96	1.47
TLV2772CD	296-10677-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.05	1.64	1.23
TLV2772CDR	296-10677-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2625.00/2,500		
TLV2772CDGK	296-7591-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2.05	1.64	1.23
TLV2772CP	296-7592-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.05	1.64	1.23
TLV2772ID	296-1902-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2772IDR	296-1902-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2772IDR	296-1902-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2752.50/2,500		
TLV2772IDGKR	296-7593-1-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2.15	1.72	1.29
TLV2772IDGKR	296-7593-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2752.50/2,500		
TLV2772IP	296-1903-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.15	1.72	1.29
TLV2772MD	296-7594-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOP	2.34	1.88	1.46
TLV2772QD	296-10678-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.33	1.86	1.40
TLV2772QPW	296-10679-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-TSSOP	2.33	1.86	1.40
TLV2773AIDR	296-7595-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOP	2.45	1.96	1.47
TLV2773AIDR	296-7595-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOP	3135.00/2,500		
TLV2773AIN	296-7596-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-Dip	2.45	1.96	1.47
TLV2773CD	296-2444-5-ND	Dual Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2773CDR	296-2444-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	2.25	1.80	1.35
TLV2773CDR	296-2444-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	2880.00/2,500		
TLV2773CDGS	296-7597-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-SOP	2.25	1.80	1.35
TLV2773IDGSR	296-7599-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-SOP	2.35	1.88	1.41
TLV2773IDGSR	296-7599-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-SOP	3007.50/2,500		
TLV2773IDR	296-7600-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	2.35	1.88	1.41
TLV2773IDR	296-7600-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	3007.50/2,500		
TLV2773IN	296-7601-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-Dip	2.35	1.88	1.41
TLV2774AIDR	296-7602-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.63	2.11	1.64
TLV2774AIDR	296-7602-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	3685.00/2,500		
TLV2774AIN	296-7603-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.63	2.11	1.64
TLV2774CD	296-1904-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.39	1.91	1.49
TLV2774CDR	296-1904-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.39	1.91	1.49
TLV2774CDR	296-1904-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	3340.00/2,500		
TLV2774CN	296-1905-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.39	1.91	1.49
TLV2774CPWR	296-7604-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-TSSOP	2.39	1.91	1.49
TLV2774CPWR	296-7604-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-TSSOP	2704.00/2,000		
TLV2774ID	296-1906-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.52	2.02	1.57
TLV2774IN	296-1907-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.52	2.02	1.57
TLV2775AIDR	296-7605-1-ND	Quad 2.7V R/R Op Amp w/SD	16-SOIC	2.88	2.31	1.80
TLV2775AIDR	296-7605-2-ND	Quad 2.7V R/R Op Amp w/SD	16-SOIC	4032.50/2,500		
TLV2775AIN	296-7606-5-ND	Quad 2.7V R/R Op Amp w/SD	16-Dip	2.88	2.31	1.80
TLV2775AIPW	296-10680-5-ND	Quad 2.7V R/R Op Amp w/SD	16-TSSOP	2.88	2.31	1.80

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2775CD	296-1908-5-ND	Quad 2.7V R/R Op Amp w/SD	16-SOIC	2.63	2.11	1.64
TLV2775CDR	296-1908-1-ND	Quad 2.7V R/R Op Amp w/SD	16-SOIC	2.63	2.11	1.64
TLV2775CDR	296-1908-2-ND	Quad 2.7V R/R Op Amp w/SD	16-SOIC	3685.00/2,500		
TLV2775CN	296-1909-5-ND	Quad 2.7V R/R Op Amp w/SD	16-Dip	2.63	2.11	1.64
TLV2775ID	296-1910-5-ND	Quad 2.7V R/R Op Amp w/SD	16-SOIC	2.75	2.20	1.71
TLV2775IDR	296-10681-1-ND	Quad 2.7V R/R Op Amp w/SD	16-SOIC	2.75	2.20	1.71
TLV2775IDR	296-10681-2-ND	Quad 2.7V R/R Op Amp w/SD	16-SOIC	3842.50/2,500		
TLV2775IN	296-7607-5-ND	Quad 2.7V R/R Op Amp w/SD	14-Dip	2.75	2.20	1.71
TLV2780IDBVR	296-7608-1-ND	8MHz, 1.8V R/R Op Amp w/Shutdown	SOT-23-6	1.60	1.28	.96
TLV2780IDBVR	296-7608-2-ND	8MHz, 1.8V R/R Op Amp with Shutdown	SOT-23-6	2457.00/3,000		
TLV2780IDR	296-7609-1-ND	8MHz, 1.8V R/R I/O Op Amp with Shutdown	8-SOIC	1.60	1.28	.96
TLV2780IDR	296-7609-2-ND	8MHz, 1.8V R/R I/O Op Amp with Shutdown	8-SOIC	2047.50/2,500		
TLV2781IDBVR	296-7610-1-ND	8MHz, 1.8V Rail-to-Rail I/O Op Amp	SOT-23-5	1.48	1.18	.89
TLV2781IDBVR	296-7610-2-ND	8MHz, 1.8V Rail-to-Rail I/O Op Amp	SOT-23-5	2265.00/3,000		
TLV2781IDR	296-7611-1-ND	8MHz, 1.8V Rail-to-Rail I/O Op Amp	8-SOIC	1.48	1.18	.89
TLV2781IDR	296-7611-2-ND	8MHz, 1.8V Rail-to-Rail I/O Op Amp	8-SOIC	1887.50/2,500		
TLV2782AID	296-7612-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.23	1.78	1.34
TLV2782CD	296-2445-5-ND	Low Voltage, Dual, R/R Op Amp	8-SOIC	2.03	1.62	1.22
TLV2782CDR	296-2445-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.03	1.62	1.22
TLV2782CDR	296-2445-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2592.50/2,500		
TLV2782CDGKR	296-7613-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2.03	1.62	1.22
TLV2782CDGKR	296-7613-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2592.50/2,500		
TLV2782ID	296-11652-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.13	1.70	1.28
TLV2782IDGKR	296-7615-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2.13	1.70	1.28
TLV2782IDGKR	296-7615-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2720.00/2,500		
TLV2782IP	296-7616-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-Dip	2.13	1.70	1.28
TLV2783AID	296-13372-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.43	1.94	1.46
TLV2783CD	296-10684-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.23	1.78	1.34
TLV2783CDR	296-10684-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.23	1.78	1.34
TLV2783CDR	296-10684-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2847.50/2,500		
TLV2783CDGSR	296-10683-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-SOP	2.23	1.78	1.34
TLV2783CDGSR	296-10683-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-SOP	2847.50/2,500		
TLV2783ID	296-2446-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.33	1.86	1.40
TLV2783IDGSR	296-10685-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-SOP	2.33	1.86	1.40
TLV2783IDGSR	296-10685-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-SOP	2975.00/2,500		
TLV2783IN	296-10686-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-Dip	2.33	1.86	1.40
TLV2784AID	296-10687-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.59	2.07	1.61
TLV2784CPWR	296-13373-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2.36	1.89	1.47
TLV2784CPWR	296-13373-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2678.00/2,000		
TLV2784IDR	296-10688-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.48	1.98	1.54
TLV2784IDR	296-10688-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	3465.00/2,500		
TLV2784IPW	296-10689-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2.48	1.98	1.54
TLV2785AID	296-10690-5-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	2.81	2.25	1.75
TLV2785CPWR	296-10691-1-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-TSSOP	2.59	2.07	1.61
TLV2785CPWR	296-10691-2-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-TSSOP	2932.00/2,000		
TLV2785IDR	296-10692-1-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	2.70	2.16	1.68
TLV2785IDR	296-10692-2-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	3780.00/2,500		
TLV3404IDR	296-10710-1-ND	LP, Quad Rail-to-Rail Op Amp	14-SOIC	2.32	1.86	1.45
TLV3404IDR	296-10710-2-ND	LP, Quad Rail-to-Rail Op Amp	14-SOIC	3245.00/2,500		
TLV3404IPWR	296-10711-1-ND	LP, Quad Rail-to-Rail Op Amp	14-TSSOP	2.32	1.86	1.45
TLV3404IPWR	296-10711-2-ND	LP, Quad Rail-to-Rail Op Amp	14-TSSOP	2626.00/2,000		
TLV3491AID	296-14052-5-ND	Single Nanopower Push-Pull Output Comparator *NEW!*	8-SOIC	1.14	.95	.76
TLV3491AIDBVT	296-14053-1-ND	Single Nanopower Push-Pull Output Comparator *NEW!*	SOT-23-5	1.14	.95	.76
TLV3491AIDBVT	296-14053-2-ND	Single Nanopower Push-Pull Output Comparator *NEW!*	SOT-23-5	142.50/250		
TLV3492AID	296-14054-5-ND	Dual Nanopower Push-Pull Output Comparator *NEW!*	8-SOIC	1.43	1.14	.86
TLV3492AIDCNT	296-14055-1-ND	Dual Nanopower Push-Pull Output Comparator *NEW!*	SOT-23-8	1.43	1.14	.86
TLV3492AIDCNT	296-14055-2-ND	Dual Nanopower Push-Pull Output Comparator *NEW!*	SOT-23-8	199.50/250		
TLV3494AID	296-14056-5-ND	Quad Nanopower Push-Pull Output Comparator *NEW!*	14-SOIC	2.13	1.70	1.28
TLV3494AIPWT	296-14057-1-ND	Quad Nanopower Push-Pull Output Comparator *NEW!*	14-TSSOP	2.13	1.70	1.28
TLV3494AIPWT	296-14057-2-ND	Quad Nanopower Push-Pull Output Comparator *NEW!*	14-TSSOP	297.50/250		
TLV4110IDGNR	296-10713-1-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	1.78	1.42	1.07
TLV4110IDGNR	296-10713-2-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	2272.50/2,500		
TLV4110IDR	296-12301-1-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-SOIC	1.78	1.42	1.07
TLV4110IDR	296-12301-2-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-SOIC	2272.50/2,500		
TLV4111IDGNR	296-10714-1-ND	High Out/Low Volt Single Rail-to-Rail Op Amp	8-MSOP	1.63	1.30	.98
TLV4111IDGNR	296-10714-2-ND	High Out/Low Volt Single Rail-to-Rail Op Amp	8-MSOP	2080.00/2,500		
TLV4111IDR	296-10715-1-ND	High Out/Low Volt Single Rail-to-Rail Op Amp	8-SOIC	1.63	1.30	.98
TLV4111IDR	296-10715-2-ND	High Out/Low Volt Single Rail-to-Rail Op Amp	8-SOIC	2080.00/2,500		
TLV4112CD	296-2447-5-ND	Dual High-Drive Op Amplifier	8-SOIC	1.98	1.58	1.19
TLV4112CP	296-10716-5-ND	High-Out-Drive Dual R/R Op Amp	8-Dip	1.98	1.58	1.19
TLV4112ID	296-10717-5-ND	High-Out-Drive Dual R/R Op Amp.	8-SOIC	2.08	1.66	1.25
TLV4112IDGNR	296-10718-1-ND	High-Out-Drive Dual R/R Op Amp	8-MSOP	2.08	1.66	1.25
TLV4112IDGNR	296-10718-2-ND	High-Out-Drive Dual R/R Op Amp	8-MSOP	2655.00/2,500		
TLV4112IP	296-10719-5-ND	High-Out-Drive Dual R/R Op Amp	8-Dip	2.08	1.66	1.25
TLV4113ID	296-10720-5-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	14-SOIC	2.28	1.82	1.37
TLV4113IDGQR	296-10721-1-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-HTSSOP	2.28	1.82	1.37
TLV4113IDGQR	296-10721-2-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-HTSSOP	2912.50/2,500		
TLV4120IDGNR	296-10722-1-ND	High-Out-Drive Signal Rail-to-Rail Op Amp with Shutdown	8-MSOP	2.59	2.07	1.61
TLV4120IDGNR	296-10722-2-ND	High-Out-Drive Signal Rail-to-Rail Op Amp with Shutdown	8-MSOP	3622.50/2,500		
TPA005D12DCA	296-2448-5-ND	2W Stereo Power Amplifier	48-TSSOP	8.64	6.92	5.84
TPA005D14DCA	296-2449-5-ND	2W Stereo Power Amplifier, Upgrade for TPA005D04DCA	48-TSSOP	9.62	7.70	6.50
TPA032D01DCA	296-2461-5-ND	10W Monaural Power Amp	48-HTSSOP	5.68	4.55	3.84
TPA032D02DCA	296-2462-5-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	6.56	5.25	4.43
TPA032D02DCAR	296-2462-1-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	6.56	5.25	4.43
TPA032D02DCAR	296-2462-2-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	8200.00/2,000		
TPA032D03DCA	296-2463-5-ND	10W Monaural Power Amp	48-HTSSOP	6.22	4.98	4.20
TPA032D04DCA	296-2464-5-ND	10W Stereo Power Amplifier	48-HTSSOP	6.84	5.48	4.62
TPA102DGN	296-1941-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.32	1.10	.88
TPA102DGNR	296-1941-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.32	1.10	.88
TPA102DGNR	296-1941-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1430.00/2,500		
TPA112D	296-2465-5-ND	150mW Stereo Audio Power Amp	8-SOIC	.93	.78	.62
TPA112DR	296-2465-1-ND	150mW Stereo Audio Power Amp	8-SOIC	.93	.78	.62
TPA112DR	296-2465-2-ND	150mW Stereo Audio Power Amp	8-SOIC	1007.50/2,500		
TPA112DGN	296-1942-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.23	1.03	.82
TPA112DGNR	296-1942-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.23	1.03	.82
TPA112DGNR	296-1942-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1332.50/2,500		
TPA122D	296-2466-5-ND	150mW Stereo Audio Power Amp	8-SOIC	1.02	.85	.68
TPA122DR	296-2466-1-ND	150mW Stereo Audio Power Amp	8-SOIC	1.02	.85	.68
TPA122DR	296-2466-2-ND	150mW Stereo Audio Power Amp	8-SOIC	1105.00/2,500		
TPA122DGN	296-1943-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.32	1.10	.88
TPA122DGNR	296-1943-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.32	1.10	.88
TPA122DGNR	296-1943-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1430.00/2,500		
TPA152D	296-1944-5-ND	75mW Single-Ended Audio Power Amp	8-SOIC	1.44	1.20	.96
TPA152DR	296-1944-2-ND	75mW Single-Ended Audio Power Amp	8-SOIC	1560.00/2,500		
TPA301D	296-1945-5-ND	0.35W Mono Audio Power Amplifier	8-SOIC	.84	.70	.56
TPA301DR	296-1945-1-ND	0.35W Mono Audio Power Amplifier	8-SOIC	.84	.70	.56
TPA301DR	296-1945-2-ND	0.35W Mono Audio Power Amplifier	8-SOIC	910.00/2,500		
TPA301DGN	296-1946-5-ND	0.35W Mono Audio Power Amplifier	8-MSOP	1.11	.93	.74
TPA302D	296-7011-5-ND	0.3W Stereo Audio Power Amp	8-SOP	2.38	1.90	1.43
TPA311D	296-1947-5-ND	0.35W Mono Audio Power Amp	8-SOIC	.84	.70	.56
TPA311DR	296-1947-1-ND	0.35W Mono Audio Power Amp	8-SOIC	.84	.70	.56
TPA311DR	296-1947-2-ND	0.35W Mono Audio Power Amp	8-SOIC	910.00/2,500		
TPA311DGN	296-1948-5-ND	0.35W Mono Audio Power Amplifier	8-MSOP	1.11	.93	.74
TPA321D	296-7012-5-ND	350mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	.84	.70	.56
TPA321DGN	296-12563-5-ND	350mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.11	.93	.74
TPA701D	296-1949-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1.17	.98	.78
TPA701DR	296-1949-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1.17	.98	.78
TPA701DR	296-1949-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1267.50/2,500		
TPA701DGN	296-7022-5-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.44	1.20	.96
TPA701DGNR	296-7022-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.44	1.20	.96
TPA701DGNR	296-7022-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1560.00/2,500		
TPA711D	296-1950-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1.17	.98	.78
TPA711DR	296-1950-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1.17	.98	.78
TPA711DR	296-1950-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1267.50/2,500		
TPA711DGNR	296-7023-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.44	1.20	.96
TPA711DGNR	296-7023-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1560.00/2,500		
TPA721D	296-1951-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1.17	.98	.78
TPA721DR	296-1951-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1.17	.98	.78
TPA721DR	296-1951-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1267.50/2,500		
TPA721DGNR	296-7024-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.44	1.20	.96
TPA721DGNR	296-7024-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1560.00/2,500		
TPA731D	296-7025-5-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	1.17	.98	.78
TPA731DGNR	296-7026-1-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.44	1.20	.96
TPA731DGNR	296-7026-2-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1560.00/2,500		
TPA741D	296-7027-5-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	1.17	.98	.78
TPA741DGNR	296-7028-1-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.44	1.20	.96
TPA741DGNR	296-7028-2-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1560.00/2,500		
TPA751D	296-10855-5-ND	Low Volt. Audio Power Amp	8-SOIC	1.17	.98	.78
TPA751DGNR	296-10856-1-ND	Low Volt. Audio Power Amp	8-MSOP	1.44	1.20	.96
TPA751DGNR	296-10856-2-ND	Low Volt. Audio Power Amp	8-MSOP	1560.00/2,500		
TPA751GQSR	296-12691-1-ND	700mW Low Volt. Audio Power Amp.	24-BGA	1.44	1.20	.96
TPA751GQSR	296-12691-2-ND	700mW Low Volt. Audio Power Amp.	24-BGA	1560.00/2,500		
TPA0102PWP	296-1938-5-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	5.68	4.55	3.84
TPA0102PWPR	296-1938-1-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	5.68	4.55	3.84
TPA0102PWPR	296-1938-2-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	7100.00/2,000		
TPA0103PWP	296-1939-5-ND	1.75W 3-Ch. Stereo Audio Power Amp	24-HTSSOP	5.68	4.55	3.84
TPA0103PWPR	296-1939-1-ND	1.75W 3-Ch. Stereo Audio Power Amp	24-HTSSOP	5.68	4.55	3.84
TPA0103PWPR	296-1939-2-ND	1.75W 3-Ch. Stereo Audio Power Amp	24-HTSSOP	7100.00/2,000		
TPA0112PWP	296-2450-5-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.40	1.92	1.44

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TEXAS INSTRUMENTS AMPLIFIERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPA0112PWPR	296-2450-1-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.40	1.92	1.44
TPA0112PWPR	296-2450-2-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2496.00/2,000		
TPA0122PWP	296-2451-5-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.40	1.92	1.44
TPA0122PWPR	296-2451-1-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.40	1.92	1.44
TPA0122PWPR	296-2451-2-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2496.00/2,000		
TPA0132PWP	296-2452-5-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.22	2.58	2.01
TPA0132PWPR	296-2452-1-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.22	2.58	2.01
TPA0132PWPR	296-2452-2-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3646.00/2,000		
TPA0142PWP	296-2453-5-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.22	2.58	2.01
TPA0142PWPR	296-2453-1-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.22	2.58	2.01
TPA0142PWPR	296-2453-2-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3646.00/2,000		
TPA0152PWP	296-2454-5-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	3.62	2.90	2.26
TPA0152PWPR	296-2454-1-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	3.62	2.90	2.26
TPA0152PWPR	296-2454-2-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4106.00/2,000		
TPA0162PWP	296-2455-5-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	3.62	2.90	2.26
TPA0162PWPR	296-2455-1-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	3.62	2.90	2.26
TPA0162PWPR	296-2455-2-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4106.00/2,000		
TPA0172PWP	296-7000-5-ND	2W Stereo Mono Audio Power Amp	24-HTSSOP	4.93	3.95	3.07
TPA0202PWP	296-1940-5-ND	2W Stereo Audio Power Amp	24-HTSSOP	5.68	4.55	3.84
TPA0202PWPR	296-1940-1-ND	2W Stereo Audio Power Amp	24-HTSSOP	5.68	4.55	3.84
TPA0202PWPR	296-1940-2-ND	2W Stereo Audio Power Amp	24-HTSSOP	7100.00/2,000		
TPA0211DGN	296-2456-5-ND	2W Mono Audio Power Amp	8-TSSOP	1.60	1.28	.96
TPA0211DGNR	296-2456-2-ND	2W Mono Audio Power Amp	8-MSOP	2047.50/2,500		
TPA0212PWP	296-2457-5-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.40	1.92	1.44
TPA0212PWPR	296-2457-1-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.40	1.92	1.44
TPA0212PWPR	296-2457-2-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2496.00/2,000		
TPA0213DGQR	296-7001-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.34	1.88	1.46
TPA0213DGQR	296-7001-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3275.00/2,500		
TPA0222PWP	296-2458-5-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.40	1.92	1.44
TPA0222PWPR	296-2458-1-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.40	1.92	1.44
TPA0222PWPR	296-2458-2-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2496.00/2,000		
TPA0223DGQR	296-7002-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.34	1.88	1.46
TPA0223DGQR	296-7002-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3275.00/2,500		
TPA0232PWP	296-2459-5-ND	2W Stereo Power Amplifier	24-HTSSOP	3.22	2.58	2.01
TPA0233DGQR	296-7003-1-ND	2W Mono Audio Power Amp with Headphone Drive	10- MSOP	2.34	1.88	1.46
TPA0233DGQR	296-7003-2-ND	2W Mono Audio Power Amp with Headphone Drive	10- MSOP	3275.00/2,500		
TPA0242PWP	296-2460-5-ND	2W Stereo Power Amplifier	24-HTSSOP	3.22	2.58	2.01
TPA0243DGQR	296-7004-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.34	1.88	1.46
TPA0243DGQR	296-7004-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3275.00/2,500		
TPA0252PWP	296-7005-5-ND	2W Stereo Audio Power Amp with Digital Volume Control/Memory	24-HTSSOP	3.62	2.90	2.26
TPA0253DGQR	296-7006-1-ND	1W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.23	1.78	1.34
TPA0253DGQR	296-7006-2-ND	1W Mono Audio Power Amp with Headphone Drive	10-MSOP	2847.50/2,500		
TPA0312PWP	296-10817-5-ND	2W Stereo Power Amplifier	24-HTSSOP	2.40	1.92	1.44
TPA1517DWP	296-7007-5-ND	6W Stereo Audio Power Amp	20-HSOP	2.38	1.90	1.43
TPA1517DWPR	296-7007-1-ND	6W Stereo Audio Power Amp	20-HSOP	2.38	1.90	1.43
TPA1517DWPR	296-7007-2-ND	6W Stereo Audio Power Amp	20-HSOP	2470.00/2,000		
TPA1517NE	296-7008-5-ND	6W Stereo Audio Power Amp	20-Dip	1.88	1.50	1.13
TPA2000D1PW	296-7009-5-ND	2W Class-D Filterless Mono Audio Power Amp	16-TSSOP	2.35	1.88	1.41
TPA2000D2PWP	296-2467-5-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	2.86	2.29	1.78
TPA2000D2PWPR	296-2467-1-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	2.86	2.29	1.78
TPA2000D2PWPR	296-2467-2-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3238.00/2,000		
TPA2000D2PWR	296-13382-1-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	2.86	2.29	1.78
TPA2000D2PWR	296-13382-2-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3238.00/2,000		
TPA2000D4DAP	296-10830-5-ND	2W Class-D Filterless Audio Power Amp	32-HTSSOP	2.77	2.22	1.73
TPA2001D1PW	296-7010-5-ND	1W Class-D Filterless Mono Audio Power Amp	16-TSSOP	1.68	1.34	1.01
TPA2001D2PWP	296-2468-5-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	2.43	1.95	1.52
TPA2001D2PWPR	296-2468-1-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	2.43	1.95	1.52
TPA2001D2PWPR	296-2468-2-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	2754.00/2,000		
TPA3001D1PWPR	296-14200-1-ND	20W Mono Class-D Audio Amp *NEW!*	24-TSSOP	5.36	4.29	3.62
TPA3001D1PWPR	296-14200-2-ND	20W Mono Class-D Audio Amp *NEW!*	24-TSSOP	6700.00/2,000		
TPA3002D2PHPR	296-14201-1-ND	9W Class-D Audio Amp with DC Volume Control *NEW!*	48-HTQFP	6.64	5.32	4.49
TPA3002D2PHPR	296-14201-2-ND	9W Class-D Audio Amp with DC Volume Control *NEW!*	48-HTQFP	4150.00/1,000		
TPA4860D	296-7013-5-ND	1W Mono Audio Power Amp	16-SOIC	1.33	1.06	.80
TPA4861D	296-7014-5-ND	1W Mono Audio Power Amp	8-SOIC	1.33	1.06	.80
TPA4861DR	296-7014-1-ND	1W Mono Audio Power Amp	8-SOIC	1.33	1.06	.80
TPA4861DR	296-7014-2-ND	1W Mono Audio Power Amp	8-SOIC	1695.00/2,500		
TPA6010A4PWPR	296-7015-1-ND	2W Stereo Audio Power Amp w/Bass Boost/DC Volume Control	28-HTSSOP	4.57	3.66	2.85
TPA6010A4PWPR	296-7015-2-ND	2W Stereo Audio Power Amp w/Bass Boost/DC Volume Control	28-HTSSOP	5176.00/2,000		
TPA6011A4PWPR	296-12678-1-ND	Stereo Audio Power Amp	24-HTSSOP	2.57	2.06	1.60
TPA6011A4PWPR	296-12678-2-ND	Stereo Audio Power Amp	24-HTSSOP	2908.00/2,000		
TPA6017A2PWPR	296-12506-1-ND	2W Stereo Audio Power Amp	20-HTSSOP	2.35	1.88	1.41
TPA6017A2PWPR	296-12506-2-ND	2W Stereo Audio Power Amp	20-HTSSOP	2444.00/2,000		
TPA6030A4PWP	296-13866-5-ND	3W Stereo Audio Power Amp *NEW!*	28-HTSSOP	2.84	2.27	1.77
TPA6100A2DGKR	296-7016-1-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1.23	1.03	.82
TPA6100A2DGKR	296-7016-2-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1332.50/2,500		
TPA6100A2DR	296-7017-1-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	.93	.78	.62
TPA6100A2DR	296-7017-2-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	1007.50/2,500		
TPA6101A2D	296-7018-5-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	.93	.78	.62
TPA6101A2DGKR	296-7019-1-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1.23	1.03	.82
TPA6101A2DGKR	296-7019-2-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1332.50/2,500		
TPA6102A2D	296-7020-5-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	.93	.78	.62
TPA6102A2DGKR	296-7021-1-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1.23	1.03	.82
TPA6102A2DGKR	296-7021-2-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1332.50/2,500		
TPA6110A2DGN	296-10843-5-ND	150mW Stereo Power Amp.	8-MSOP	1.11	.93	.74
TPA6111A2DGN	296-10845-5-ND	150mW Stereo Power Amp.	8-MSOP	1.11	.93	.74
TPA6111A2DR	296-10846-1-ND	150mW Stereo Power Amp.	8-SOIC	1.33	1.06	.80
TPA6111A2DR	296-10846-2-ND	150mW Stereo Power Amp.	8-SOIC	910.00/2,500		
TPA6112A2DGQR	296-10848-1-ND	150mW Stereo Power Amp.	10-HTSSOP	1.11	.93	.74
TPA6112A2DGQR	296-10848-2-ND	150mW Stereo Power Amp.	10-HTSSOP	1202.50/2,500		
TPA6203A1GQVR	296-12753-1-ND	1.25W Mono Differential Audio Power Amp	8-BGA	1.29	1.08	.86
TPA6203A1GQVR	296-12753-2-ND	1.25W Mono Differential Audio Power Amp	8-BGA	1397.50/2,500		
UA741CD	296-11106-5-ND	General Purpose Op Amp	8-SOIC	.50	.40	.30
UA741CP	296-11107-5-ND	General Purpose Op Amp	8-Dip	.50	.40	.30
UA747CN	296-12963-5-ND	Dual General Purpose Op Amp	14-Dip	.75	.63	.50
UC3901D	296-11338-5-ND	Isolated Feedback Generator	14-SOIC	3.96	3.17	2.47
UC3901N	296-11339-5-ND	Isolated Feedback Generator	14-Dip	3.96	3.17	2.47
VCA610U	VCA610U-ND	Wideband Voltage Controlled Amp.	8-SOIC	15.83	14.77	13.72
VCA610UA	VCA610UA-ND	Wideband Voltage Controlled Amp.	8-SOIC	25.23	23.55	21.87
VCA2612Y/250	VCA2612YCT-ND	Dual Low Noise Variable Gain Amp	48-TQFP	16.95	15.82	14.69
VCA2612Y/250	VCA2612YTR-ND	Dual Low Noise Variable Gain Amp	48-TQFP	3602.00/250		
VCA2613Y/250	VCA2613YCT-ND	Dual Low Noise Variable Gain Amp	48-TQFP	15.46	13.92	12.35
VCA2613Y/250	VCA2613YTR-ND	Dual Low Noise Variable Gain Amp	48-TQFP	2958.00/250		
VCA2614Y/250	VCA2614Y/250CT-ND	Dual Variable Gain Amplifier with Input Buffer	32-TQFP	12.61	11.36	10.07
VCA2614Y/250	VCA2614Y/250TR-ND	Dual Variable Gain Amplifier with Input Buffer	32-TQFP	2412.94/250		
VCA2616YT	VCA2616YT-ND	Dual Variable Gain Amplifier with Low-Noise Preamp	48-TQFP	15.43	13.89	12.32
VCA2618YT	296-14062-1-ND	Daul Variable Gain Amplifier with Input Buffer *NEW!*	32-TQFP	12.61	11.36	10.07
VCA2618YT	296-14062-2-ND	Daul Variable Gain Amplifier with Input Buffer *NEW!*	32-TQFP	2413.00/250		
SBAT001	LI-501-ND	Linear & Mixed Signal Products Data Book		4.94	—	—

TEXAS INSTRUMENTS AUDIO VOLUME CONTROL

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PGA2310PA	296-13113-5-ND	Stereo Audio Volume Control	16-Dip	14.16	12.75	11.31
PGA4311U	PGA4311U-ND	4-Channel Audio Volume Control	28-SOIC	13.38	12.05	10.68
PGA4311UA	PGA4311UA-ND	4-Channel Audio Volume Control	28-SOIC	16.04	14.45	12.81

TEXAS INSTRUMENTS BUS SOLUTIONS

Clock Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CDC111FN	296-6675-5-ND	3.3V Differential Clock Driver	28-PLCC	12.20	10.98	9.74
CDC203DWR	296-6676-1-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	6.22	4.98	4.20
CDC203DWR	296-6676-2-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	7776.00/2,000		
CDC204DW	296-6677-5-ND	6-Bit Inverter/Clock Driver	20-SOIC	5.36	4.29	3.62
CDC204DWR	296-6677-1-ND	6-Bit Inverter/Clock Driver	20-SOIC	5.40	4.32	3.65
CDC204DWR	296-6677-2-ND	6-Bit Inverter/Clock Driver	20-SOIC	6750.00/2,000		
CDC208DW	296-6678-5-ND	Dual 1-to-4 Clock Driver	20-SOIC	7.40	5.92	5.00
CDC318ADL	296-1383-5-ND	1-18 Line Clock Driver	48-SSOP	2.95	2.36	1.84
CDC319DBR	296-6692-1-ND	1-10 Clock Driver	28-SSOP	3.02	2.42	1.88
CDC319DBR	296-6692-2-ND	1-10 Clock Driver	28-SSOP	3418.00/2,000		
CDC328AD	296-6693-5-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOP	6.38	5.11	4.31
CDC328ADR	296-6693-1-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	6.42	5.14	4.34
CDC328ADR	296-6693-2-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	9950.00/2,500		
CDC328ADBR	296-6694-1-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SSOP	6.42	5.14	4.34
CDC328ADBR	296-6694-2-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SSOP	8026.00/2,000		
CDC329AD	296-6696-5-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOP	5.32	4.26	3.60
CDC337DW	296-6697-5-ND	1-8 Clock Driver with Clear	20-SOIC	7.52	6.02	5.08
CDC339DBR	296-6698-1-ND	1-8 Clock Driver with Clear	20-SSOP	6.30	5.04	4.26
CDC339DBR	296-6698-2-ND	1-8 Clock Driver with Clear	20-SSOP	7876.00/2,000		
CDC339DW	296-6699-5-ND	1-8 Clock Driver with Clear	20-SOIC	6.28	5.03	4.24
CDC340DW	296-6700-5-ND	1-8 Clock Driver with Tight AC Spec.	20-SOIC	7.52	6.02	5.08
CDC341DW	296-6701-5-ND	1-8 Clock Driver with Tight AC Spec.	20-SOIC	7.70	6.16	5.20
CDC351DBR	296-6702-1-ND	Tri-State 3.3V Clock Driver	24-SSOP	8.51	7.67	6.80
CDC351DBR	296-6702-2-ND	Tri-State 3.3V Clock Driver	24-SSOP	12622.00/2,000		
CDC351DW	296-6703-5-ND	Tri-State 3.3V Clock Driver	24-SOIC	8.48	7.64	6.77

(Continued)

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TEXAS INSTRUMENTS BUS SOLUTIONS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CDC391D	296-6704-5-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	6.16	4.93	4.16
CDC509PWR	296-6705-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.86	3.89	3.03
CDC509PWR	296-6705-2-ND	3.3V PLL Clock Driver	24-TSSOP	5508.00/2,000		
CDC516DGGR	296-6706-1-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	5.28	4.23	3.57
CDC516DGGR	296-6706-2-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	6600.00/2,000		
CDC536DBR	296-6707-1-ND	3.3V PLL Clock Driver	28-SSOP	4.07	3.26	2.54
CDC536DBR	296-6707-2-ND	3.3V PLL Clock Driver	28-SSOP	4616.00/2,000		
CDC582PAH	296-6708-5-ND	3.3V PLL Clock Driver	52-QFP	8.58	6.87	5.80
CDC586PAH	296-6709-5-ND	Tri-State 3.3V PLL Clock Driver	52-QFP	9.60	7.68	6.48
CDC857-2DGG	296-14163-5-ND	2.5V PLL Clock Driver *NEW!*	48-TSSOP	9.00	8.10	7.19
CDC924DL	296-6714-5-ND	133MHz Clock Synthesizer-Driver	56-SSOP	3.35	2.69	2.09
CDC925DL	296-6715-5-ND	133MHz Clock Synthesizer-Driver	56-SSOP	4.77	3.82	2.97
CDC950DGG	296-9435-5-ND	133MHz Differential Clock Synthesizer/Driver	48-TSSOP	2.39	1.91	1.49
CDC960DL	296-12725-5-ND	200MHz Clock Synthesizer/Driver	48-SSOP	3.29	2.63	2.05
CDC2351DB	296-12628-5-ND	Tri-State 3.3V,1-Line to 10-Line Clock Driver	24-SSOP	9.40	7.52	6.35
CDC2351DW	296-6680-5-ND	Tri-State 3.3V, 1-Line to 10-Line Clock Driver	24-SOIC	9.40	7.52	6.35
CDC2351QDB	296-9434-5-ND	Tri-State 1-10 Buffer Clock Driver	24-SSOP	9.95	8.96	7.95
CDC2509APWR	296-6681-1-ND	Tri-State 3.3V PLL Clock Driver	24-TSSOP	3.98	3.19	2.48
CDC2509APWR	296-6681-2-ND	Tri-State 3.3V PLL Clock Driver	24-TSSOP	4514.00/2,000		
CDC2509BPWR	296-6682-1-ND	1-9 PLL Clock Driver	24-TSSOP	3.98	3.19	2.48
CDC2509BPWR	296-6682-2-ND	1-9 PLL Clock Driver	24-TSSOP	4514.00/2,000		
CDC2509CPWR	296-6683-1-ND	3.3V PLL Clock Driver	24-TSSOP	3.98	3.19	2.48
CDC2509CPWR	296-6683-2-ND	3.3V PLL Clock Driver	24-TSSOP	4514.00/2,000		
CDC2510APWR	296-6684-1-ND	3.3V PLL Clock Driver	24-TSSOP	9.96	7.97	6.73
CDC2510APWR	296-6684-2-ND	3.3V PLL Clock Driver	24-TSSOP	12450.00/2,000		
CDC2510BPWR	296-6685-1-ND	3.3V PLL Clock Driver	24-TSSOP	9.96	7.97	6.73
CDC2510BPWR	296-6685-2-ND	3.3V PLL Clock Driver	24-TSSOP	12450.00/2,000		
CDC2510CPW	296-13069-5-ND	3.3V PLL Clock Driver	24-TSSOP	3.94	3.15	2.45
CDC2510CPWR	296-6686-1-ND	3.3V PLL Clock Driver	24-TSSOP	3.98	3.19	2.48
CDC2510CPWR	296-6686-2-ND	3.3V PLL Clock Driver	24-TSSOP	4514.00/2,000		
CDC2510PWR	296-13641-1-ND	3.3V PLL Clock Driver	24-TSSOP	6.20	4.96	4.19
CDC2510PWR	296-13641-2-ND	3.3V PLL Clock Driver	24-TSSOP	7750.00/2,000		
CDC2516DGGR	296-6687-1-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	5.26	4.21	3.56
CDC2516DGGR	296-6687-2-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	6576.00/2,000		
CDC2582PAH	296-6689-5-ND	3.3V Clock Driver	28-QFP	8.58	6.87	5.80
CDC2586PAH	296-6690-5-ND	Tri-State 3.3V Clock Driver	52-QFP	9.60	7.68	6.48
CDC5801DBQ	296-13774-5-ND	Low Jitter Clock Multiplier/Divider	24-SSOP	5.32	4.26	3.60
CDC7005ZVAR	296-14344-1-ND	3.3V Clock Synchronizer *NEW!*	64-BGA	15.83	14.25	12.64
CDC7005ZVAR	296-14344-2-ND	3.3V Clock Synchronizer *NEW!*	64-BGA	11733.00/1,000		
CDCF2510PWR	296-6718-1-ND	3.3V PLL Clock Driver	24-TSSOP	6.08	4.87	4.11
CDCF2510PWR	296-6718-2-ND	3.3V PLL Clock Driver	24-TSSOP	7600.00/2,000		
CDCFR83DBQ	296-12311-5-ND	533MHz Direct Rambus™ Clock Generator	24-SSOP	4.05	3.24	2.52
CDCLVD110VF	296-13712-5-ND	Prog. Low Voltage 1:10 LVDS Clock Driver	32-TQFP	8.86	7.98	7.08
CDCR61APW	296-14633-5-ND	RAMBUS™ Clock Generator *NEW!*	16-TSSOP	3.40	2.72	2.12
CDCR81DBQR	296-6720-1-ND	Direct Rambus™ Clock Generator	24-SSOP	4.16	3.33	2.59
CDCR81DBQR	296-6720-2-ND	Direct Rambus™ Clock Generator	24-SSOP	5827.50/2,500		
CDCR83DBQ	296-12165-5-ND	400MHz Direct Rambus™ Clock Generator	24-SSOP	3.24	2.60	2.02
CDCV304PW	296-12420-5-ND	140MHz General Purpose PCI-X Clock Buffer	8-TSSOP	2.25	1.80	1.40
CDCV850DGG	296-6721-5-ND	2.5V PLL Clock Driver	48-TSSOP	3.13	2.51	1.95
CDCV850DGGR	296-6721-1-ND	2.5V PLL Clock Driver	48-TSSOP	3.17	2.54	1.98
CDCV850DGGR	296-6721-2-ND	2.5V PLL Clock Driver	48-TSSOP	3596.00/2,000		
CDCV850IDGG	296-14164-5-ND	2.5V PLL Clock Driver with 2 Line Serial Interface *NEW!*	48-TSSOP	3.60	2.88	2.24
CDCV855IPW	296-14305-5-ND	2.5V, 1:4 PLL Clock Driver *NEW!*	28-TSSOP	2.61	2.09	1.63
CDCV855PW	296-12200-5-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2.27	1.82	1.42
CDCV855PWR	296-12200-1-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2.32	1.86	1.45
CDCV855PWR	296-12200-2-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2626.00/2,000		
CDCV857ADGG	296-11575-5-ND	2.5V PLL Clock Driver	48-TSSOP	4.82	3.86	3.00
CDCV857ADGGR	296-11575-1-ND	2.5V PLL Clock Driver	48-TSSOP	4.84	3.87	3.01
CDCV857ADGGR	296-11575-2-ND	2.5V PLL Clock Driver	48-TSSOP	5482.00/2,000		
CDCV857AGQLR	296-13775-1-ND	2.5V PLL Clock Driver	56-VFBGA	5.33	4.27	3.32
CDCV857AGQLR	296-13775-2-ND	2.5V PLL Clock Driver	56-VFBGA	3022.00/1,000		
CDCV857BDGG	296-14165-5-ND	2.5V PLL Clock Driver *NEW!*	48-TSSOP	5.38	4.31	3.64
CDCV857BIDGG	296-13857-5-ND	2.5V PLL Clock Driver *NEW!*	48-TSSOP	6.20	4.96	4.19
CDCV857DGGR	296-6722-1-ND	2.5V PLL Clock Driver	48-TSSOP	6.02	4.82	4.07
CDCV857DGGR	296-6722-2-ND	2.5V PLL Clock Driver	48-TSSOP	7526.00/2,000		
CDCVF111FN	296-12421-5-ND	1:9 Diff. LVPECL Clock Driver	28-PLCC	11.08	9.98	8.85
CDCVF2310PW	296-12019-5-ND	2.5-3.3V, 1:10 General Purpose High PowerClock Buffer	24-TSSOP	4.14	3.32	2.58
CDCVF2310PWR	296-12019-1-ND	2.5-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	4.19	3.35	2.61
CDCVF2310PWR	296-12019-2-ND	2.5-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	4744.00/2,000		
CDCVF2505D	296-6723-5-ND	3.3V PLL Clock Driver	8-SOIC	1.55	1.24	.93
CDCVF2505PWR	296-9437-1-ND	3.3V PLL Clock Driver	8-TSSOP	1.58	1.26	.95
CDCVF2505PWR	296-9437-2-ND	3.3V PLL Clock Driver	8-TSSOP	1638.00/2,000		
CDCVF2509PW	296-13070-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.05	3.24	2.52
CDCVF2509PWR	296-6724-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.10	3.28	2.55
CDCVF2509PWR	296-6724-2-ND	3.3V PLL Clock Driver	24-TSSOP	4642.00/2,000		
CDCVF2510PW	296-6725-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.05	3.24	2.52
CDCVF2510PWR	296-6725-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.10	3.28	2.55
CDCVF2510PWR	296-6725-2-ND	3.3V PLL Clock Driver	24-TSSOP	4642.00/2,000		
CDCVF25081D	296-12270-5-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	2.48	1.98	1.54
CDCVF25081DR	296-12270-1-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	2.52	2.02	1.57
CDCVF25081DR	296-12270-2-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	3527.50/2,500		
CDCVF25081PW	296-12271-5-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	2.48	1.98	1.54
CDCVF25081PWR	296-12271-1-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	2.52	2.02	1.57
CDCVF25081PWR	296-12271-2-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	2856.00/2,000		
PLL1700E	PLL1700E-ND	Audio System Multiclock Generator (PLL)	20-SSOP	4.21	3.37	2.62
PLL1705DBQ	296-13605-5-ND	3.3V Dual PLL Multiclock Generator	20-SSOP	2.57	2.06	1.60
PLL1706DBQ	296-13606-5-ND	3.3V Dual PLL Multiclock Generator	20-SSOP	2.57	2.06	1.60
PLL1707DBQ	296-14182-5-ND	3.3V Dual PLL Multiclock Generator *NEW!*	20-SSOP	2.79	2.24	1.74
PLL1708DBQ	296-14183-5-ND	3.3V Dual PLL Multiclock Generator *NEW!*	20-SSOP	2.79	2.24	1.74

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		IEEE1394				
TSB12LV01BPZT	296-11062-ND	High Performance Link Layer	100-TQFP	14.06	12.66	11.23
TSB12LV21BPGF	296-11063-ND	PCILynx Link Layer	176-QFP	15.19	13.68	12.13
TSB12LV26PZT	296-11065-ND	Open Host Controller	100-TQFP	7.44	5.96	5.03
TSB12LV32IPZ	296-11066-ND	General Purp. Link Layer Controller	100-TQFP	8.90	8.01	7.11
TSB12LV32PZ	296-11067-ND	General Purp. Link Layer Controller	100-TQFP	9.70	7.76	6.55
TSB14AA1APFB	296-14214-5-ND	3.3V IEEE 1394-1995 Backplane PHY *NEW!*	48-TQFP	9.35	8.42	7.47
TSB14AA1PFB	296-11070-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	9.35	8.42	7.47
TSB14AA1TPFB	296-13421-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	9.08	8.18	7.25
TSB14C01APM	296-11072-ND	Physical Layer Controller	64-PQFP	8.58	7.73	6.85
TSB15LV01PFC	296-11073-ND	High Performance Link Layer	80-QFP	8.18	6.55	5.53
TSB41AB1PAP	296-11074-ND	One-Port Cable Transceiver/Arbiter	64-HTQFP	3.17	2.54	1.98
TSB41AB1PHP	296-11075-ND	One-Port Cable Transceiver/Arbiter	48-HTQFP	3.17	2.54	1.98
TSB41AB2PAP	296-11076-ND	Two-Port Cable Transceiver/Arbiter	64-PQFP	3.96	3.17	2.47
TSB41AB3IPFP	296-13422-ND	IEEE 1394a-2000 Three Port Cable Transceiver/Arbiter	80-HTQFP	5.48	4.39	3.70
TSB41AB3PFP	296-11077-ND	IEEE 1394a-2000 Three Port Cable Transceiver/Arbiter	80-HTQFP	5.66	4.53	3.83
TSB41LV04APFP	296-11078-ND	Four-Port Cable Transceiver/Arbiter	80-QFP	10.25	9.23	8.18
TSB41LV06APZP	296-11079-ND	Six-Port Cable Transceiver/Arbiter	100-PQFP	10.06	9.06	8.04
TSB42AA9APZT	296-12568-ND	StorageLynx 1394 Link Layer Controller for ATA/ATAPI Storage Products	100-TQFP	8.46	7.62	6.76
TSB42AA9IPZT	296-13618-5-ND	StorageLynx 1394 Link Layer Controller for ATA/ATAPI Storage Products	100-TQFP	11.13	10.02	8.89
TSB42AB4PDT	296-11081-ND	Link Layer Controller	128-TQFP	15.54	14.00	12.41
TSB43AA82APGE	296-13423-ND	2 Port High Performance Integrated Phy and Link Layer Chip for PC Peripherals	144-LQFP	13.09	11.79	10.46
TSB43AA82GGW	296-12243-ND	2 Port High Performance Integrated Phy and Link Layer Chip for PC Peripherals	176-BGA	13.09	11.79	10.46
TSB43AA82PGE	296-11082-ND	2 Port High Performance Integrated Phy and Link Layer Chip for PC Peripherals	144-LQFP	13.09	11.79	10.46
TSB43AB21APDT	296-12698-ND	Phy/Link-Layer Controller	128-PQFP	8.20	6.56	5.54
TSB43AB22APDT	296-12569-ND	1394 Link Layer Controller	128-TQFP	8.64	6.92	5.84
TSB43AB23PDT	296-12408-ND	IEEE-1394a Phy/Link Layer Controller	128-TQFP	9.32	7.46	6.30
TSB43AB23PGE	296-14328-ND	OHCI Phy/Link Layer Controller *NEW!*	144-LQFP	8.38	6.71	5.66
TSB43CB43APGF	296-14329-ND	iceLynx-Micro™ with Phy *NEW!*	176-TQFP	16.24	14.63	12.97
TSB81BA3PFP	296-14215-5-ND	1394b Three-Port Cable Transceiver/ Arbiter *NEW!*	80-HTQFP	12.35	11.12	9.86
TSB82AA2PGE	296-14445-ND	High Performance Link Layer *NEW!*	144-LQFP	12.35	11.12	9.86
		PCI				
PCI950PT	296-1413-5-ND	IRQSER Deserializer	48-LQFP	3.98	3.19	2.48
PCI1410AGGU	296-6644-5-ND	Single Slot CardBus Controller	144-BGA	6.50	5.20	4.39
PCI1410AGHK	296-6645-5-ND	Single Slot CardBus Controller	209-BGA	8.38	6.71	5.66
PCI1410APGE	296-6646-5-ND	Single Slot CardBus Controller	144-TQFP	6.50	5.20	4.39
PCI1410GGU	296-6647-5-ND	PC Card Controller	144-BGA	6.50	5.20	4.39
PCI1410PGE	296-6648-5-ND	PC Card Controller	144-TQFP	6.50	5.20	4.39
PCI1420GHK	296-6650-5-ND	PC Card Controller	209-BGA	7.96	6.37	5.38
PCI1420PDV	296-6651-5-ND	PC Card Controller	208-LQFP	7.96	6.37	5.38
PCI4510GHK	296-13623-ND	PC Card and Integrated 1394a-2000 OHCI Two-Port PHY/Link Layer Controller	209-PBGA	11.35	10.22	9.06
PCI1510GGU	296-12730-ND	Single Slot CardBus Controller	144-BGA	6.16	4.93	4.16
PCI1510PGE	296-12731-ND	Single Slot CardBus Controller	144-QFP	6.16	4.93	4.16
PCI1520GHK	296-12279-5-ND	PC Card Controller	209-BGA	7.44	5.96	5.03
PCI1520PDV	296-12280-5-ND	PC Card Controller	208-QFP	7.44	5.96	5.03
PCI1620GHK	296-13787-ND	Dual Socket PC Card and UltraMedia Controller	209-BGA	10.46	9.42	8.36
PCI1620PDV	296-13788-ND	Dual Socket PC Card and UltraMedia Controller	208-LQFP	10.46	9.42	8.36
PCI2040GGU	296-9633-5-ND	PCI-to-DSP Bridge Controller	144-BGA	15.03	14.03	13.03
PCI2040PGE	296-9634-ND	PCI-to-DSP Bridge Controller	144-LQFP	15.03	14.03	13.03
PCI2050APDV	296-12086-ND	32-Bit, 33MHz PCI-to-PCI Bridge	208-LQFP	15.04	13.55	12.01
PCI2050BPDV	296-14347-ND	32-Bit, 33MHz PCI-to-PCI Bridge *NEW!*	208-LQFP	15.04	13.55	12.01
PCI2050GHK	296-9635-5-ND	32-Bit, 33MHz PCI-to-PCI Bridge	209-BGA	12.91	11.63	10.31
PCI2050IGHK	296-9636-5-ND	32-Bit, 33MHz PCI-to-PCI Bridge	209-BGA	15.63	14.07	12.48
PCI2050IPDV	296-9637-ND	32-Bit, 33MHz PCI-to-PCI Bridge	208-LQFP	15.63	14.07	12.48
PCI2050PDV	296-9638-ND	32-Bit, 33MHz PCI-to-PCI Bridge	208-LQFP	12.91	11.63	10.31
PCI2250PCM	296-9639-ND	32-Bit, 33MHz PCI-to-PCI Bridge	160-QFP	9.66	8.70	7.72
PCI2250PGF	296-9640-ND	32-Bit, 33MHz PCI-to-PCI Bridge	176-LQFP	9.66	8.70	7.72
PCI4410AGHK	296-6657-5-ND	Integrated PC Card	209-BGA	12.86	11.58	10.27
PCI4410APDV	296-6658-5-ND	Integrated PC Card	208-TQFP	12.86	11.58	10.27
PCI4451GFN	296-6663-5-ND	Integrated PC Card	256-BGA	15.21	13.70	12.15
PCI4451GJG	296-6664-5-ND	Integrated PC Card	257-BGA	15.21	13.70	12.15
PCI7410GHK	296-14179-ND	PC Card, Two-Port PHY/Link Layer Controller *NEW!*	209-BGA	15.61	14.06	12.47
PCI7510GHK	296-14180-ND	PC Card, Two-Port PHY/Link Layer Controller *NEW!*	209-BGA	15.61	14.06	12.47
PCI7610GHK	296-14181-ND	PC Card, Two-Port PHY/Link Layer Controller *NEW!*	209-BGA	15.35	14.33	13.30

TEXAS INSTRUMENTS CCD

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV990-13PFB	296-10737-ND	10-Bit, 13Msps CCD Signal Processor/Digitizer	48-TQFP	5.28	4.23	3.57
TLV990-21PFB	296-10738-ND	10-Bit, 21Msps CCD Analog Front End	48-TQFP	4.50	3.60	2.80
TLV990-28PFB	296-10739-ND	10-Bit, 28Msps CCD Analog Front End	48-TQFP	6.26	5.01	4.23

(Continued)

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TEXAS INSTRUMENTS CCD *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV990-40PFB	296-10740-ND	10-Bit, 40Msps CCD Analog Front End	48-TQFP	6.82	5.46	4.61
TLV990BPFB	296-10741-ND	10-Bit, 28Msps CCD/Video Signal Processor	48-TQFP	5.14	4.12	3.47
TSC2000IPW	TSC2000IPW-ND	Programmable Touch Screen Controller	20-TSSOP	4.82	3.86	3.00
VSP10T21PFB	296-12701-ND	Video Signal Processor/Digitizer	48-TQFP	6.46	5.17	4.37
VSP1221PFB	296-12296-ND	LP CCD Signal Processor	48-TQFP	6.76	5.41	4.57
VSP2000Y	VSP2000Y-ND	CCD Signal Processor for Digital Cameras	48-LQFP	9.92	7.94	6.70
VSP2210Y	VSP2210Y-ND	10-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	12.81	11.54	10.23
VSP2212Y	VSP2212Y-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	16.01	14.42	12.79
VSP2230Y	VSP2230Y-ND	10-Bit Digital Camera CCD Signal Processor	48-LQFP	15.24	13.73	12.17
VSP2232Y	VSP2232Y-ND	12-Bit Digital Camera CCD Signal Processor	48-LQFP	16.62	15.52	14.41
VSP2254GSJ	296-14396-ND	36MHz 2-Ch. CCD Processor *NEW!*	96-BGA	17.09	15.95	14.81
VSP2260Y	VSP2260Y-ND	10-Bit, 27MHz, Digital Camera CCD Signal Processor	48-LQFP	8.64	6.92	5.84
VSP2260Y/2K	VSP2260YTR-ND	10-Bit, 27MHz, Digital Camera CCD Signal Processor	48-LQFP	10850.00/2,000		
VSP2262Y	VSP2262Y-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	15.86	14.28	12.67
VSP2262Y/2K	VSP2262YTR-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	23564.00/2,000		
VSP2265GSJ	296-13847-5-ND	10-Bit, 25MHz, Digital Camera CCD Signal Processor *NEW!*	96-VFBGA	12.30	11.07	9.82
VSP2267GSJ	296-13848-5-ND	12-Bit, 25MHz, Digital Camera CCD Signal Processor *NEW!*	96-VFBGA	15.81	14.24	12.63
VSP2270Y	296-12541-ND	27MHz CCD Signal Processor	48-LQFP	10.55	9.50	8.42
VSP2272Y	296-12542-ND	27MHz CCD Signal Processor	48-LQFP	13.71	12.35	10.95
VSP3010Y	VSP3010Y-ND	12-Bit, CCD/CIS Controller	48-LQFP	9.21	8.30	7.36
VSP3100Y	VSP3100Y-ND	14-Bit, 10MHz CCD/CIS Signal Processor	48-LQFP	9.62	7.70	6.50
VSP3200Y	VSP3200Y-ND	14-Bit, CCD/CIS Processor	48-LQFP	9.61	8.66	7.68
VSP3200Y/2K	VSP3200YTR-ND	14-Bit, CCD/CIS Processor	48-LQFP	14302.00/2,000		
VSP3210Y	VSP3210Y-ND	14-Bit, CCD/CIS Processor	48-LQFP	9.61	8.66	7.68
VSP3210Y2/K	VSP3210YTR-ND	14-Bit, CCD/CIS Processor	48-LQFP	14302.00/2,000		
VSP5000PM	296-14235-5-ND	12-Bit, 30MHz CCD Signal Front End *NEW!*	64-LQFP	15.81	14.24	12.63

TEXAS INSTRUMENTS COMPARATORS

General Purpose Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
L293DNE	296-9518-5-ND	Quad Half-H Drivers	16-Dip	2.25	1.80	1.40
L293NE	296-9519-5-ND	Quad Half-H Drivers	16-Dip	2.25	1.80	1.40
LM239DR	296-14590-1-ND	Quad Diff. Comparator *NEW!*	14-SOIC	.48	.36	.27
LM239DR	296-14590-2-ND	Quad Diff. Comparator *NEW!*	14-SOIC	390.00/2,500		
LM293AD	296-9530-5-ND	Dual Differential Comparator	8-SOP	.64	.48	.36
LM293D	296-9531-5-ND	Dual Differential Comparator	8-SOP	.48	.36	.27
LM293DR	296-12848-1-ND	Dual Differential Comparator	8-SOIC	.48	.36	.27
LM293DR	296-12848-2-ND	Dual Differential Comparator	8-SOIC	390.00/2,500		
LM293P	296-9532-5-ND	Dual Differential Comparator	8-Dip	.48	.36	.27
LM3302D	296-9546-5-ND	Quad Differential Comparator	14-SOP	.88	.66	.50
LM339AD	296-6604-5-ND	Quad Differential Comparator, A Grade	14-SOIC	.49	.40	.27
LM339ADR	296-6604-1-ND	Quad Differential Comparator, A Grade	14-SOIC	.49	.40	.27
LM339ADR	296-6604-2-ND	Quad Differential Comparator, A Grade	14-SOIC	320.00/2,500		
LM339AN	296-6605-5-ND	Quad Differential Comparator, A Grade	14-Dip	.49	.40	.27
LM339D	296-1013-5-ND	Quad Differential Comparator	14-SOIC	.42	.35	.24
LM339DR	296-1013-1-ND	Quad Differential Comparator	14-SOIC	.42	.35	.24
LM339DR	296-1013-2-ND	Quad Differential Comparator	14-SOIC	277.50/2,500		
LM339DBR	296-6606-1-ND	Quad Differential Comparator	14-SSOP	.42	.35	.24
LM339DBR	296-6606-2-ND	Quad Differential Comparator	14-SSOP	234.00/2,000		
LM339N	296-1393-5-ND	Quad Differential Comparator	14-Dip	.42	.35	.24
LM339PWR	296-6607-1-ND	Quad Diff. Comparator, A Grade	14-TSSOP	.42	.35	.24
LM339PWR	296-6607-2-ND	Quad Diff. Comparator, A Grade	14-TSSOP	234.00/2,000		
LM393AD	296-6608-5-ND	Dual Differential Comparator, A Grade	8-SOP	.49	.40	.27
LM393ADR	296-14605-1-ND	Dual Differential Comparator, A Grade *NEW!*	8-SOIC	.49	.40	.27
LM393ADR	296-14605-2-ND	Dual Differential Comparator, A Grade *NEW!*	8-SOIC	320.00/2,500		
LM393AP	296-6609-5-ND	Dual Differential Comparator, A Grade	8-Dip	.49	.40	.27
LM393APWR	296-6610-1-ND	Dual Differential Comparator, A Grade	8-TSSOP	.49	.40	.27
LM393APWR	296-6610-2-ND	Dual Differential Comparator, A Grade	8-TSSOP	270.00/2,000		
LM393D	296-1015-5-ND	Dual Differential Comparator	8-SOIC	.42	.35	.24
LM393DR	296-1015-1-ND	Dual Differential Comparator	8-SOIC	.42	.35	.24
LM393DR	296-1015-2-ND	Dual Differential Comparator	8-SOIC	277.50/2,500		
LM393P	296-1398-5-ND	Dual Differential Comparator	8-Dip	.42	.35	.24
LM393PSR	296-9566-1-ND	Dual Differential Comparator	8-SOP	.42	.35	.24
LM393PSR	296-9566-2-ND	Dual Differential Comparator	8-SOP	234.00/2,000		
LM393PWR	296-14607-1-ND	Dual Diff. Comparator *NEW!*	8-TSSOP	.42	.35	.24
LM393PWR	296-14607-2-ND	Dual Diff. Comparator *NEW!*	8-TSSOP	234.00/2,000		
LM2901D	296-1385-5-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	.36	.29	.20
LM2901DR	296-14593-1-ND	Quad Diff. Comparator, Ind. Temp. *NEW!*	14-SOIC	.36	.29	.20
LM2901DR	296-14593-2-ND	Quad Diff. Comparator, Ind. Temp. *NEW!*	14-SOIC	235.00/2,500		
LM2901N	296-1386-5-ND	Quad Diff. Comparator, Ind. Temp.	14-Dip	.36	.29	.20
LM2901PWR	296-6597-1-ND	Quad Diff. Comparator, Ind. Temp.	14-TSSOP	.36	.29	.20
LM2901PWR	296-6597-2-ND	Quad Diff. Comparator, Ind. Temp.	14-TSSOP	198.00/2,000		
LM2902D	296-6598-5-ND	Quad Operational Amplifier	14-SOP	.36	.29	.20
LM2902N	296-6599-5-ND	Quad Operational Amplifier	14-Dip	.36	.29	.20
LM2902PWR	296-6600-1-ND	Quad Operational Amplifier	14-TSSOP	.36	.29	.20
LM2902PWR	296-6600-2-ND	Quad Operational Amplifier	14-TSSOP	198.00/2,000		
LM2903D	296-1012-5-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.36	.29	.20
LM2903DR	296-1012-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.36	.29	.20
LM2903DR	296-1012-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	235.00/2,500		
LM2903P	296-6601-5-ND	Dual Diff. Comparator, Ind. Temp.	8-Dip	.36	.29	.20
LM2903PWR	296-6602-1-ND	Dual Diff. Comparator, Ind. Temp.	8-TSSOP	.36	.29	.20
LM2903PWR	296-6602-2-ND	Dual Diff. Comparator, Ind. Temp.	8-TSSOP	198.00/2,000		
LM2903QD	296-6603-5-ND	Dual Diff. Comparator, Ind. Temp.	8-SOP	.76	.57	.43
LM3302DR	296-14598-1-ND	Quad Diff. Comparator *NEW!*	14-SOIC	.88	.66	.50
LM3302DR	296-14598-2-ND	Quad Diff. Comparator *NEW!*	14-SOIC	715.00/2,500		
LMV339IDR	296-6611-1-ND	Quad Low-Voltage Comparator	14-SOIC	.64	.48	.36
LMV339IDR	296-6611-2-ND	Quad Low-Voltage Comparator	14-SOIC	520.00/2,500		
LMV339IPWR	296-6612-1-ND	Quad Low-Voltage Comparator	14-TSSOP	.64	.48	.36
LMV339IPWR	296-6612-2-ND	Quad Low-Voltage Comparator	14-TSSOP	426.00/2,000		
TL331IDBVR	296-10168-1-ND	Single/Dual Diff. Comparator	SOT-23-5	.80	.60	.45
TL331IDBVR	296-10168-2-ND	Single/Dual Diff. Comparator	SOT-23-5	780.00/3,000		
TLC372CPWR	296-10309-1-ND	Dual Differential Comparator	8-TSSOP	.87	.73	.58
TLC372CPWR	296-10309-2-ND	Dual Differential Comparator	8-TSSOP	772.00/2,000		
TLC372ID	296-10310-5-ND	Dual Differential Comparator	8-SOIC	.96	.80	.64
TLC372MD	296-10311-5-ND	Dual Differential Comparator	8-SOIC	1.26	1.05	.84
TLC372QD	296-10312-5-ND	Dual Differential Comparator	8-SOIC	1.23	1.03	.82
TLC374CN	296-10313-5-ND	Quad Differential Comparator	14-Dip	1.05	.88	.70
TLC374CPWR	296-10314-1-ND	Quad Differential Comparator	14-TSSOP	1.05	.88	.70
TLC374CPWR	296-10314-2-ND	Quad Differential Comparator	14-TSSOP	932.00/2,000		
TLC374ID	296-10315-5-ND	Quad Differential Comparator	14-SOIC	1.17	.98	.78
TLC374IN	296-10316-5-ND	Quad Differential Comparator	14-Dip	1.17	.98	.78
TLC374MD	296-10317-5-ND	Quad Differential Comparator	14-SOIC	1.33	1.06	.80

High Speed Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM139DR	296-6614-1-ND	Quad GP Differential Comparator	14-SOP	1.20	1.00	.80
LM139DR	296-6614-2-ND	Quad GP Differential Comparator	14-SOP	1300.00/2,500		
LM193DR	296-6615-1-ND	Dual GP Differential Comparator	8-SOP	.84	.63	.48
LM193DR	296-6615-2-ND	Dual GP Differential Comparator	8-SOP	682.50/2,500		
LM211D	296-6616-5-ND	Differential Comparator w/Strobe	8-SOIC	.55	.44	.33
LM211DR	296-14589-1-ND	Differential Comparator w/Strobe *NEW!*	8-SOIC	.55	.44	.33
LM211DR	296-14589-2-ND	Differential Comparator w/Strobe *NEW!*	8-SOIC	372.50/2,500		
LM211P	296-6617-5-ND	Differential Comparator w/Strobe	8-Dip	.55	.44	.33
LM211QD	296-9520-5-ND	Differential Comparator w/Strobe	8-SOP	.92	.69	.52
LM239ADR	296-6618-1-ND	Quad GP Differential Comparator	14-SOP	.68	.51	.39
LM239ADR	296-6618-2-ND	Quad GP Differential Comparator	14-SOP	552.50/2,500		
LM239D	296-6620-5-ND	Quad GP Differential Comparator	14-SOIC	.48	.36	.27
LM239N	296-6621-5-ND	Quad GP Differential Comparator	14-Dip	.48	.36	.27
LM306D	296-9533-5-ND	Differential Comparator with Strobe	8-SOP	1.05	.88	.70
LM306P	296-1387-5-ND	Differential Comparator with Strobe	8-Dip	1.05	.88	.70
LM311D	296-1388-5-ND	Differential Comparator with Strobe	8-SOIC	.49	.40	.27
LM311DR	296-1388-1-ND	Differential Comparator with Strobe	8-SOIC	.49	.40	.27
LM311DR	296-1388-2-ND	Differential Comparator with Strobe	8-SOIC	320.00/2,500		
LM311P	296-1389-5-ND	Differential Comparator with Strobe	8-Dip	.52	.39	.30
LM311PWR	296-13719-1-ND	Differential Comparator with Strobe	8-TSSOP	.49	.40	.27
LM311PWR	296-13719-2-ND	Differential Comparator with Strobe	8-TSSOP	270.00/2,000		
TL712CD	296-6629-5-ND	Differential Comparator	8-SOIC	1.38	1.15	.92
TL712CP	296-6630-5-ND	Differential Comparator	8-Dip	1.38	1.15	.92
TL714CD	296-6631-5-ND	High Speed Differential Comparator	8-SOP	2.70	2.16	1.68
TL714CP	296-6632-5-ND	High Speed Differential Comparator	8-Dip	2.70	2.16	1.68
TL3016CD	296-1793-5-ND	Ultra Fast Low Power Precision Comparator	8-SOIC	2.03	1.62	1.22
TL3016ID	296-1794-5-ND	Ultra Fast Low Power Precision Comparator	8-SOIC	2.23	1.78	1.34
TL3016IPW	296-13615-5-ND	Ultra Fast Low Power Precision Comparator	8-TSSOP	2.23	1.78	1.34
TL3116CD	296-6626-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.03	1.62	1.22
TL3116CPWR	296-6627-1-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2.03	1.62	1.22
TL3116CPWR	296-6627-2-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2106.00/2,000		
TL3116ID	296-6628-5-ND	Ultra-Fast LP Precision Comparator	8-SOP	2.23	1.78	1.34

Low Power Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV331IDBVR	296-6633-1-ND	Single GP LV Comparator	SOT-23-5	.64	.48	.36
LMV331IDBVR	296-6633-2-ND	Single GP LV Comparator	SOT-23-5	624.00/3,000		
LMV331IDCKR	296-6634-1-ND	Single GP LV Comparator	SC70-5	.64	.48	.36
LMV331IDCKR	296-6634-2-ND	Single GP LV Comparator	SC70-5	624.00/3,000		
LMV393IDGKR	296-13993-1-ND	Quad Comparator *NEW!*	8-MSOP	.72	.54	.41
LMV393IDGKR	296-13993-2-ND	Quad Comparator *NEW!*	8-MSOP	585.00/2,500		
LMV393IDR	296-6635-1-ND	Dual GP LV Comparator	8-SOIC	.64	.48	.36
LMV393IDR	296-6635-2-ND	Dual GP LV Comparator	8-SOIC	520.00/2,500		
LMV393IPWR	296-6636-1-ND	Dual GP LV Comparator	8-TSSOP	.64	.48	.36
LMV393IPWR	296-6636-2-ND	Dual GP LV Comparator	8-TSSOP	426.00/2,000		
LP211D	296-9573-5-ND	Differential Comparator	8-SOP	1.02	.85	.68
LP2901D	296-9574-5-ND	Quad Differential Comparator	14-SOP	.99	.83	.66
LP2901N	296-9575-5-ND	Quad Differential Comparator	14-Dip	.99	.83	.66
LP311D	296-9576-5-ND	Differential Comparator	8-SOP	.93	.78	.62
LP311DR	296-14608-1-ND	Differential Comparator *NEW!*	8-SOIC	.93	.78	.62
LP311DR	296-14608-2-ND	Differential Comparator *NEW!*	8-SOIC	1007.50/2,500		
LP311P	296-9577-5-ND	Differential Comparator	8-Dip	.93	.78	.62
LP339D	296-9578-5-ND	Quad Diff. Comparator	14-SOP	.72	.54	.41
LP339DR	296-14609-1-ND	Quad Diff. Comparator *NEW!*	14-SOIC	.72	.54	.41
LP339DR	296-14609-2-ND	Quad Diff. Comparator *NEW!*	14-SOIC	585.00/2,500		
LP339N	296-9579-5-ND	Quad Diff. Comparator	14-Dip	.72	.54	.41
TLC339CD	296-10281-5-ND	Quad Differential Comparator	14-SOIC	1.17	.98	.78
TLC339CN	296-12312-5-ND	Quad Differential Comparator	14-Dip	1.17	.98	.78
TLC339CPWR	296-10282-1-ND	Quad Differential Comparator	14-TSSOP	1.17	.98	.78
TLC339CPWR	296-10282-2-ND	Quad Differential Comparator	14-TSSOP	1038.00/2,000		
TLC339ID	296-1324-5-ND	Quad Differential Comparator	14-SOIC	1.29	1.08	.86
TLC339IDR	296-1324-1-ND	Quad Differential Comparator	14-SOIC	1.29	1.08	.86
TLC339IDR	296-1324-2-ND	Quad Differential Comparator	14-SOIC	1397.50/2,500		
TLC339IN	296-10283-5-ND	Quad Differential Comparator	14-Dip	1.29	1.08	.86
TLC339MN	296-10284-5-ND	Quad Differential Comparator	14-Dip	1.25	1.00	.75
TLC372CD	296-1327-5-ND	Dual Differential Comparator	8-SOIC	.87	.73	.58
TLC372CDR	296-1327-1-ND	Dual Differential Comparator	8-SOIC	.87	.73	.58
TLC372CDR	296-1327-2-ND	Dual Differential Comparator	8-SOIC	942.50/2,500		
TLC372CP	296-1845-5-ND	Dual Differential Comparator	8-Dip	.87	.73	.58
TLC372IP	296-1846-5-ND	Dual Differential Comparator	8-Dip	.96	.80	.64
TLC374CD	296-1328-5-ND	Quad Differential Comparator	14-SOIC	1.05	.88	.70
TLC374CDR	296-1328-1-ND	Quad Differential Comparator	14-SOIC	1.05	.88	.70
TLC374CDR	296-1328-2-ND	Quad Differential Comparator	14-SOIC	1137.50/2,500		
TLC393CD	296-1329-5-ND	Dual Voltage Comparator	8-SOIC	.99	.83	.66
TLC393CDR	296-1329-1-ND	Dual Voltage Comparator	8-SOIC	.99	.83	.66
TLC393CDR	296-1329-2-ND	Dual Voltage Comparator	8-SOIC	1072.50/2,500		
TLC393CP	296-1849-5-ND	Dual Voltage Comparator	8-Dip	.99	.83	.66
TLC393CPWR	296-10318-1-ND	Dual Voltage Comparator	8-TSSOP	.99	.83	.66
TLC393CPWR	296-10318-2-ND	Dual Voltage Comparator	8-TSSOP	878.00/2,000		
TLC393ID	296-1330-5-ND	Dual Voltage Comparator	8-SOIC	1.08	.90	.72

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TEXAS INSTRUMENTS COMPARATORS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC393IDR	296-1330-1-ND	Dual Voltage Comparator	8-SOIC	1.08	.90	.72
TLC393IDR	296-1330-2-ND	Dual Voltage Comparator	8-SOIC	1170.00/2,500		
TLC393IP	296-10320-5-ND	Dual Voltage Comparator	8-Dip	1.08	.90	.72
TLC393IPWR	296-10321-1-ND	Dual Voltage Comparator	8-TSSOP	1.08	.90	.72
TLC393IPWR	296-10321-2-ND	Dual Voltage Comparator	8-TSSOP	958.00/2,000		
TLC3702CD	296-1325-5-ND	Dual Voltage Comparator	8-SOIC	.90	.75	.60
TLC3702CDR	296-1325-1-ND	Dual Voltage Comparator	8-SOIC	.90	.75	.60
TLC3702CDR	296-1325-2-ND	Dual Voltage Comparator	8-SOIC	975.00/2,500		
TLC3702CP	296-1841-5-ND	Dual Voltage Comparator	8-Dip	.90	.75	.60
TLC3702MD	296-12188-5-ND	Dual Voltage Comparator	8-SOP	1.32	1.10	.88
TLC3702ID	296-1326-5-ND	Dual Voltage Comparator	8-SOIC	.99	.83	.66
TLC3702IDR	296-1326-1-ND	Dual Voltage Comparator	8-SOIC	.99	.83	.66
TLC3702IDR	296-1326-2-ND	Dual Voltage Comparator	8-SOIC	1072.50/2,500		
TLC3702IP	296-10300-5-ND	Dual Voltage Comparator	8-Dip	.99	.83	.66
TLC3702IPW	296-10301-5-ND	Dual Voltage Comparator	8-TSSOP	.99	.83	.66
TLC3704CD	296-10302-5-ND	Quad Voltage Comparator	14-SOIC	1.26	1.05	.84
TLC3704CN	296-10303-5-ND	Quad Voltage Comparator	14-Dip	1.26	1.05	.84
TLC3704CNS	296-10304-5-ND	Quad Voltage Comparator	14-SOP	1.26	1.05	.84
TLC3704CNSR	296-10304-1-ND	Quad Voltage Comparator	14-SOP	1.26	1.05	.84
TLC3704CNSR	296-10304-2-ND	Quad Voltage Comparator	14-SOP	1118.00/2,000		
TLC3704CPWR	296-10305-1-ND	Quad Voltage Comparator	14-TSSOP	1.26	1.05	.84
TLC3704CPWR	296-10305-2-ND	Quad Voltage Comparator	14-TSSOP	1118.00/2,000		
TLC3704ID	296-1843-5-ND	Quad Voltage Comparator	14-SOIC	1.38	1.15	.92
TLC3704IN	296-10306-5-ND	Quad Voltage Comparator	14-Dip	1.38	1.15	.92
TLC3704IPW	296-10307-5-ND	Quad Voltage Comparator	14-TSSOP	1.38	1.15	.92
TLC3704MD	296-10308-5-ND	Quad Voltage Comparator	14-SOIC	1.38	1.10	.83
TLV2702ID	296-12503-5-ND	Nanopower Op Amp and Push-Pull Comparator	8-SOIC	1.98	1.58	1.19
TLV2702IDGK	296-13370-5-ND	Nanopower Op Amp and Push-Pull Comparator	8-MSOP	1.98	1.58	1.19
TLV3401IDBVR	296-13376-1-ND	Nanopower Open Drain Output Comparator	SOT-23-5	1.43	1.14	.86
TLV3401IDBVR	296-13376-2-ND	Nanopower Open Drain Output Comparator	SOT-23-5	2190.00/3,000		
TLV3401IDR	296-10707-1-ND	Nanopower Open Drain Output Comparator	8-SOIC	1.43	1.14	.86
TLV3401IDR	296-10707-2-ND	Nanopower Open Drain Output Comparator	8-SOIC	1825.00/2,500		
TLV3401IP	296-12042-5-ND	Nanopower Open Drain Output Comparator	8-Dip	1.43	1.14	.86
TLV3402IP	296-12043-5-ND	Dual Open Drain Output Comparator	8-Dip	1.98	1.58	1.19
TLV3402IDGKR	296-10708-1-ND	Dual Nanopower Comparator	8-MSOP	1.98	1.58	1.19
TLV3402IDGKR	296-10708-2-ND	Dual Nanopower Comparator	8-MSOP	2527.50/2,500		
TLV3402IDR	296-10709-1-ND	Dual Nanopower Comparator	8-SOIC	1.98	1.58	1.19
TLV3402IDR	296-10709-2-ND	Dual Nanopower Comparator	8-SOIC	2527.50/2,500		
TLV3404IN	296-12044-5-ND	Quad Open Drain Output Comparator	14-Dip	2.32	1.86	1.45
TLV3701CDBVT	296-13377-1-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	1.30	1.04	.78
TLV3701CDBVT	296-13377-2-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	182.00/250		
TLV3701ID	296-12608-5-ND	Nanopower Push-Pull Output Comparators	8-SOIC	1.43	1.14	.86
TLV3701IDBVT	296-13378-1-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	1.43	1.14	.86
TLV3701IDBVT	296-13378-2-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	199.50/250		
TLV3701IP	296-13379-5-ND	Nanopower Push-Pull Output Comparator	8-Dip	1.43	1.14	.86
TLV3702ID	296-12609-5-ND	Nanopower Push-Pull Output Comparators	8-SOIC	1.98	1.58	1.19
TLV3702IP	296-13380-5-ND	Nanopower Push-Pull Output Comparator	8-Dip	1.98	1.58	1.19
TLV3702IDGK	296-12610-5-ND	Nanopower Push-Pull Output Comparators	8-MSOP	1.98	1.58	1.19
TLV3704IDR	296-12287-1-ND	Nanopower Push-Pull Comparator	14-SOIC	2.32	1.86	1.45
TLV3704IDR	296-12287-2-ND	Nanopower Push-Pull Comparator	14-SOIC	3245.00/2,500		
TLV3704IN	296-12611-5-ND	Nanopower Push-Pull Output Comparators	8-Dip	2.32	1.86	1.45
TLV3704IPW	296-12400-5-ND	Nanopower Push-Pull Comparator	14-TSSOP	2.32	1.86	1.45

Low Voltage Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC352CD	296-1839-5-ND	Dual Differential Comparator	8-SOIC	1.05	.88	.70
TLC352CP	296-10285-5-ND	Dual Differential Comparator	8-Dip	1.05	.88	.70
TLC352ID	296-10286-5-ND	Dual Differential Comparator	8-SOIC	1.17	.98	.78
TLC352IP	296-10287-5-ND	Dual Differential Comparator	8-Dip	1.17	.98	.78
TLC354CD	296-10292-5-ND	Quad Differential Comparator	14-SOIC	1.23	1.03	.82
TLC354CN	296-10293-5-ND	Quad Differential Comparator	14-Dip	1.23	1.03	.82
TLC354CPW	296-10294-5-ND	Quad Differential Comparator	14-TSSOP	1.23	1.03	.82
TLC354ID	296-10295-5-ND	Quad Differential Comparator	14-SOIC	1.35	1.13	.90
TLV1391CDBVR	296-10492-1-ND	Differential Comparator	SOT-23-5	.80	.60	.45
TLV1391CDBVR	296-10492-2-ND	Differential Comparator	SOT-23-5	780.00/3,000		
TLV2352ID	296-10517-5-ND	Dual Differential Comparator	8-SOIC	1.85	1.48	1.11
TLV2352IP	296-10518-5-ND	Dual Differential Comparator	8-Dip	1.85	1.48	1.11
TLV2352IPWR	296-10519-1-ND	Dual Differential Comparator	8-TSSOP	1.85	1.48	1.11
TLV2352IPWR	296-10519-2-ND	Dual Differential Comparator	8-TSSOP	1924.00/2,000		
TLV2354ID	296-10520-5-ND	Quad Differential Comparator	14-SOIC	2.30	1.84	1.43
TLV2354IN	296-10521-5-ND	Quad Differential Comparator	14-Dip	2.30	1.84	1.43
TLV2354IPWR	296-10522-1-ND	Quad Differential Comparator	14-TSSOP	2.30	1.84	1.43
TLV2354IPWR	296-10522-2-ND	Quad Differential Comparator	14-TSSOP	2602.00/2,000		

TEXAS INSTRUMENTS DATA COMMUNICATIONS

Audio CODECs

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCM2900E	296-13034-5-ND	Stereo Audio CODEC with USB Interface	28-SSOP	7.50	6.00	5.07
PCM2901E	296-12985-5-ND	Stereo Audio CODEC with USB Interface, Single Ended Analog In/Out and S/PDIF	28-SSOP	7.50	6.00	5.07
PCM2902E	296-12986-5-ND	Stereo Audio CODEC with USB Interface, Single Ended Analog In/Out and S/PDIF	28-SSOP	8.08	6.47	5.46
PCM2903E	296-12987-5-ND	Stereo Audio CODEC with USB Interface, Single Ended Analog In/Out and S/PDIF	28-SSOP	8.08	6.47	5.46
PCM2904DB	296-13478-5-ND	Stereo Audio Codec with USB Interface, Single Ended Analog Input/Output and S/PDIF	28-SSOP	7.50	6.00	5.07
PCM2906DB	296-13479-5-ND	Stereo Audio Codec with USB Interface, Single Ended Analog Input/Output and S/PDIF	28-SSOP	8.08	6.47	5.46
PCM3000E	PCM3000E-ND	Stereo Audio CODEC 18-Bits, 3-Wire Interface	28-SSOP	6.22	4.98	4.20
PCM3001E	PCM3001E-ND	Stereo Audio CODEC 18-Bits, Pin Programmable	28-SSOP	6.22	4.98	4.20
PCM3002E	PCM3002E-ND	20-Bit, Stereo CODEC, Software Control	24-SSOP	6.22	4.98	4.20
PCM3003E	PCM3003E-ND	20-Bit, Stereo CODEC, Hardware Control	24-SSOP	6.22	4.98	4.20
PCM3006T	PCM3006T-ND	16-Bit, Stereo CODEC, Single-Ended I/O	24-TSSOP	6.22	4.98	4.20
PCM3008T	PCM3008T-ND	16-Bit, Low Power/Voltage Stereo CODEC	16-TSSOP	5.60	4.48	3.78
PCM3010DB	296-14398-5-ND	24-Bit, Stereo Audio Codec *NEW!*	24-SSOP	7.22	5.78	4.88
PCM3500E	PCM3500E-ND	Voice/Modem CODEC	24-SSOP	5.33	4.27	3.32
PCM3501E	PCM3501E-ND	Voice/Modem CODEC	24-SSOP	5.33	4.27	3.32
TLV320AIC22CPT	296-13661-1-ND	Dual Voice Over Internet Protocol (VoIP) Codec	48-LQFP	7.04	5.64	4.76
TLV320AIC22CPT	296-13661-2-ND	Dual Voice Over Internet Protocol (VoIP) Codec	48-LQFP	1144.00/250		
TLV320AIC24IPFB	296-12690-ND	16-Bit, Low Power Dual Channel CODEC	48-TQFP	6.98	5.59	4.72

Central Office CODEC

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TCM38C17IDL	296-1761-5-ND	4-Channel PCM Combo	48-SSOP	9.70	7.76	6.55
TP3054ADW	296-10782-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	2.75	2.20	1.71
TP3054AN	296-10783-5-ND	PCM CODEC/Filtering System (u-law)	16-Dip	2.75	2.20	1.71
TP3054BDW	296-10784-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	2.75	2.20	1.71
TP3054BN	296-1936-5-ND	PCM CODEC/Filtering System (u-law)	16-Dip	2.75	2.20	1.71
TP3056BDW	296-10785-5-ND	PCM CODEC and Filter (A-law and u-law)	16-SOIC	2.86	2.29	1.78
TP3056BN	296-10786-5-ND	PCM CODEC and Filter (A-law and u-law)	16-Dip	2.86	2.29	1.78
TP3057ADW	296-10787-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	2.75	2.20	1.71
TP3057AN	296-10788-5-ND	PCM CODEC and Filter (A-law)	16-Dip	2.75	2.20	1.71
TP3057BDW	296-10789-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	2.75	2.20	1.71
TP3057BN	296-10790-5-ND	PCM CODEC and Filter (A-law)	16-Dip	2.75	2.20	1.71
TP3064BDW	296-10791-5-ND	PCM CODEC/Filtering System (u-law)	20-SOIC	2.75	2.20	1.71
TP3064BN	296-10792-5-ND	PCM CODEC/Filtering System (u-law)	20-Dip	2.75	2.20	1.71
TP3067ADW	296-10793-5-ND	PCM CODEC and Filter (A-law)	20-SOIC	2.75	2.20	1.71
TP3067AN	296-10794-5-ND	PCM CODEC and Filter (A-law)	20-Dip	2.75	2.20	1.71
TP3067BDW	296-10795-5-ND	PCM CODEC and Filter (A-law)	20-SOIC	2.75	2.20	1.71
TP3067BN	296-10796-5-ND	PCM CODEC and Filter (A-law)	20-Dip	2.75	2.20	1.71
TP13054ADW	296-10774-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	3.08	2.47	1.92
TP13054BDW	296-10775-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	3.08	2.47	1.92
TP13054BN	296-10776-5-ND	PCM CODEC/Filtering System (u-law)	16-Dip	3.08	2.47	1.92
TP13057BDW	296-10777-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	3.08	2.47	1.92
TP13057BN	296-10778-5-ND	PCM CODEC and Filter (A-law)	16-Dip	3.08	2.47	1.92
TP13064BDW	296-10779-5-ND	PCM CODEC/Filtering System (u-law)	20-SOIC	3.08	2.47	1.92
TP13067BDW	296-10780-5-ND	PCM CODEC and Filter (A-law)	20-SOIC	3.08	2.47	1.92
TP13067BN	296-10781-5-ND	PCM CODEC and Filter (A-law)	20-Dip	3.08	2.47	1.92

IRDA

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TIR1000IPWR	296-6574-1-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2.52	2.02	1.57
TIR1000IPWR	296-6574-2-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2856.00/2,000		
TIR1000PSR	296-6572-1-ND	Standalone IrDA Encoder/Decoder	8-SOP	2.43	1.94	1.46
TIR1000PSR	296-6572-2-ND	Standalone IrDA Encoder/Decoder	8-SOP	2522.00/2,000		
TIR1000PWR	296-6573-1-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2.43	1.94	1.46
TIR1000PWR	296-6573-2-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2522.00/2,000		

Ring Controllers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC2750DW	296-2602-5-ND	Source Ringer Controller	28-SOIC	15.36	13.83	12.27
UCC2751D	296-2603-5-ND	Single Line Ring Generator Controller	16-SOIC	7.84	6.28	5.30
UCC2752D	296-2604-5-ND	Resonant Ring Generator Controller	16-SOIC	7.84	6.28	5.30
UCC3750N	296-11454-5-ND	Source Ringer Controller	28-Dip	11.20	10.08	8.94
UCC3750DW	296-2605-5-ND	Source Ringer Controller	28-SOIC	11.20	10.08	8.94
UCC3751D	296-2606-5-ND	Single Line Ring Generator Controller	16-SOIC	6.28	5.03	4.24
UCC3751N	296-11455-5-ND	Single Line Ring Generator Controller	16-Dip	6.28	5.03	4.24
UCC3752D	296-2607-5-ND	Resonant Ring Generator Controller	16-SOIC	6.28	5.03	4.24
UCC3752N	296-11456-5-ND	Resonant Ring Generator Controller	16-Dip	6.28	5.03	4.24

SONET Transceivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SLK2501IPZP	296-12281-ND	OC-48 SONET/SDH Multirate Transceiver	100-HTQFP	49.86	46.54	43.22
SLK2511IPZP	296-13035-5-ND	Sonet/SDH Multirate Transceiver	100-VQFP	49.88	46.55	43.23
SLK2701IPZP	296-12543-ND	2.7Gbps SONET/SDH Multirate Transceiver	100-HTQFP	49.86	46.54	43.22
SLK2721IPZP	296-13036-5-ND	Sonet/SDH Multirate Transceiver with Enhanced Jitter Tolerance	100-VQFP	49.88	46.55	43.23

UARTs

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL16C450FN	296-10145-5-ND	Asynch. Communication Element	44-PLCC	3.60	2.88	2.24
TL16C451FN	296-10146-5-ND	Asynch. Communication Element	68-PLCC	5.06	4.05	3.15
TL16C452FN	296-10147-5-ND	Dual Asynch. Comm. Element	68-PLCC	5.02	4.02	3.39
TL16C550BPT	296-10152-ND	Asynch. Communication Element	48-LQFP	5.98	4.79	4.04
TL16C550CFN	296-10153-5-ND	Asynch. Communication Element	44-PLCC	3.60	2.88	2.24
TL16C550CIFN	296-10154-5-ND	Asynch. Communication Element	44-PLCC	3.94	3.15	2.45
TL16C550CIPT	296-1786-5-ND	Asynch. Communication Element	48-LQFP	3.94	3.15	2.45
TL16C550CN	296-10155-5-ND	Asynch. Communication Element	40-Dip	3.60	2.88	2.24
TL16C550CPFB	296-10156-ND	Asynch. Communication Element	48-LQFP	3.92	3.14	2.44
TL16C550CPT	296-1787-ND	Asynch. Communication Element	48-LQFP	3.60	2.88	2.24
TL16C550CPTR	296-1787-1-ND	Asynch. Communication Element	48-LQFP	3.60	2.88	2.24
TL16C550CPTR	296-1787-2-ND	Asynch. Communication Element	48-LQFP	2040.00/1,000		
TL16C552AFN	296-1788-5-ND	Dual Asynch. Communication	68-PLCC	6.70	5.36	4.53
TL16C552AFNR	296-1788-1-ND	Dual Asynch. Communication	68-PLCC	6.70	5.36	4.53
TL16C552AFNR	296-1788-2-ND	Dual Asynch. Communication	68-PLCC	1088.75/250		
TL16C552AIFN	296-10159-5-ND	Dual Asynch. Communication	68-PLCC	7.02	5.62	4.74
TL16C552APN	296-10160-ND	Dual Asynch. Communication	80-TQFP	7.04	5.64	4.76
TL16C554AFN	296-6587-5-ND	Quad UART with 16-Byte FIFO	68-PLCC	8.50	7.65	6.79
TL16C554APN	296-6588-5-ND	Quad UART with 16-Byte FIFO	80-PQFP	8.80	7.92	7.03
TL16C554FNR	296-1790-1-ND	Asynch. Communication Element	68-PLCC	10.45	9.41	8.34
TL16C750FN	296-2647-5-ND	64-Byte FIFO UART	44-PLCC	6.30	5.04	4.26
TL16C750IPM	296-6591-5-ND	Single UART with 64-Byte FIFO, AFC, Low Power Modes	64-TQFP	6.92	5.54	4.68
TL16C750PM	296-6592-5-ND	Single UART with 64-Byte FIFO, AFC, Low Power Modes, Ind. Temp.	64-TQFP	6.62	5.30	4.47

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★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

TEXAS INSTRUMENTS DATA COMMUNICATIONS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL16C752BPT	296-2648-ND	Dual 3.3V UART	48-PQFP	5.90	4.72	3.99
TL16C754BFN	296-2650-5-ND	Quad 64-Byte FIFO UART	68-PLCC	12.33	11.10	9.85
TL16C754BPN	296-6593-5-ND	Quad UART with 64-Byte FIFO	80-PQFP	12.61	11.36	10.07
TL16PC564BGGM	296-14404-ND	PCMCIA UART with 64-Byte FIFO *NEW!*	100-BGA	9.30	8.37	7.43
TL16PC564BLVPZ	296-2651-ND	PCMCIA UART	100-TQFP	9.66	8.70	7.72
TL16PC564BPZ	296-6594-5-ND	Single UART with 64-Byte FIFO, PCMCIA Interface	100-TQFP	9.30	8.37	7.43
TL16PIR552PH	296-6595-5-ND	Dual UART with 16-Byte FIFO, Selectable IR and 1284 Modes	80-QFP	9.66	8.70	7.72

USB

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TUSB2036VF	296-11086-ND	2/3-Port USB Hub	32-QFP	2.45	1.96	1.47
TUSB2046BIVFR	296-11087-ND	4-Port USB Hub	32-LQFP	2.52	2.02	1.57
TUSB2046BVF	296-11088-ND	4-Port USB Hub	32-QFP	2.30	1.84	1.43
TUSB2077APT	296-11089-ND	7-Port USB Hub	48-LQFP	4.12	3.30	2.57
TUSB2136PM	296-11090-ND	2-Port USB Hub	64-LQFP	7.68	6.15	5.19
TUSB3200ACPAH	296-12289-5-ND	USB Streaming Controller	52-TQFP	7.20	5.76	4.86
TUSB3200CPAH	296-11091-ND	USB Streaming Controller	52-QFP	7.20	5.76	4.86
TUSB3210PM	296-11092-ND	Universal Serial Bus Controller	64-LQFP	5.76	4.61	3.89
TUSB5052PZ	296-12525-ND	5-Port USB Hub Controller	100-TQFP	8.66	6.93	5.85

USB Transient Suppression

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65220DBVR	296-9694-1-ND	Single USB Port Transient Suppressor	SOT-23-6	.87	.73	.58
SN65220DBVR	296-9694-2-ND	Single USB Port Transient Suppressor	SOT-23-6	1131.00/3,000		
SN65220DBVT	296-2341-1-ND	Single USB Port Transient Suppressor	SOT-23-6	.87	.73	.58
SN65220DBVT	296-2341-2-ND	Single USB Port Transient Suppressor	SOT-23-6	108.75/250		
SN75240P	296-6596-5-ND	Dual USB Port Transient Suppressor	8-Dip	1.02	.85	.68
SN75240PWR	296-6596-1-ND	Dual USB Port Transient Suppressor	8-TSSOP	1.02	.85	.68
SN75240PWR	296-6596-2-ND	Dual USB Port Transient Suppressor	8-TSSOP	904.00/2,000		
SN65240P	296-9695-5-ND	Dual USB Port Transient Suppressor	8-Dip	1.02	.85	.68
SN65240PW	296-9696-5-ND	Dual USB Port Transient Suppressor	8-TSSOP	1.02	.85	.68
SN65240PWR	296-9696-1-ND	Dual USB Port Transient Suppressor	8-TSSOP	1.02	.85	.68
SN65240PWR	296-9696-2-ND	Dual USB Port Transient Suppressor	8-TSSOP	904.00/2,000		

Video Decoder / Encoder

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TVP5031PFP	296-11093-ND	9-Bit with 3-line Adaptive Comb NTSC/PAL Digital Video Decoder	80-TQFP	15.54	14.51	13.47
TVP5040CPFP	296-11802-ND	10-Bit Dual-Channel NTSC-PAL Digital Video Decoder	80-TQFP	15.54	14.51	13.47
TVP5145PFP	296-13021-5-ND	Digital Video Decoder with Macrovision Detection	80-TQFP	15.01	13.52	11.99
TVP6000CPFP	296-11094-ND	NTSC/PAL Video Encoder	80-TQFP	11.40	10.26	9.10

TEXAS INSTRUMENTS DATA CONVERSION

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AMC7820Y/250	296-12621-1-ND	Analog Monitoring and Control Circuit	48-TQFP	14.48	13.04	11.56
AMC7820Y/250	296-12621-2-ND	Analog Monitoring and Control Circuit	48-TQFP	2769.94/250		

Analog-to-Digital Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADS574JP	ADS574JP-ND	12-Bit, 40KHz Sampling CMOS ADC	28-Dip	25.92	24.20	22.47
ADS574KP	ADS574KP-ND	12-Bit, 40KHz Sampling CMOS ADC	28-Dip	30.06	28.06	26.06
ADS774JP	ADS774JP-ND	12-Bit, 125KHz Sampling CMOS ADC	28-Dip	29.39	27.43	25.47
ADS774JU	ADS774JU-ND	12-Bit, 125KHz Sampling CMOS ADC	28-Dip	23.52	21.96	20.39
ADS774KE	ADS774KE-ND	12-Bit, 125KHz Sampling CMOS ADC	28-Dip	28.22	26.34	24.46
ADS774KP	ADS774KP-ND	12-Bit, 125KHz Sampling CMOS ADC	28-Dip	34.10	31.83	29.55
ADS774KU	ADS774KU-ND	12-Bit, 125KHz Sampling CMOS ADC	28-SOIC	28.22	26.34	24.46
ADS800U	ADS800U-ND	12-Bit, 40MHz Sampling ADC	28-SOIC	41.82	39.04	36.25
ADS801U	ADS801U-ND	12-Bit, 25MHz Sampling ADC	28-SOIC	17.03	15.89	14.76
ADS802U	ADS802U-ND	12-Bit, 10MHz Sampling ADC	28-SOIC	17.10	15.96	14.82
ADS803E	ADS803E-ND	12-Bit, 5MHz Sampling ADC	28-SSOP	11.13	10.02	8.89
ADS804E	ADS804E-ND	12-Bit, 10MHz Sampling ADC	28-SSOP	13.84	12.47	11.06
ADS805E	ADS805E-ND	12-Bit, 20MHz Sampling ADC	28-SSOP	14.88	13.40	11.88
ADS807E	ADS807E-ND	12-Bit, 53MHz ADC	28-SSOP	15.32	14.30	13.28
ADS808Y/250	ADS808Y/250CT-ND	12-Bit ADC	48-TQFP	26.43	24.67	22.91
ADS808Y/250	ADS808Y/250TR-ND	12-Bit ADC	48-TQFP	5616.50/250		
ADS809Y/250	ADS809Y/250CT-ND	12-Bit ADC	48-TQFP	33.84	31.59	29.33
ADS809Y/250	ADS809Y/250TR-ND	12-Bit ADC	48-TQFP	7191.00/250		
ADS820U	ADS820U-ND	10-Bit, 10MHz Sampling ADC	28-SOIC	10.18	9.17	8.13
ADS821U	ADS821U-ND	10-Bit, 40MHz Sampling ADC	28-SOIC	17.67	16.50	15.32
ADS822E	ADS822E-ND	10-Bit, 40MHz Sampling ADC	28-SSOP	9.42	7.54	6.36
ADS823E	ADS823E-ND	10-Bit, 60MHz Sampling ADC	28-SSOP	12.64	11.39	10.10
ADS825E	ADS825E-ND	10-Bit, 40MHz ADC	28-SSOP	9.42	7.54	6.36
ADS826E	ADS826E-ND	10-Bit, 60MHz ADC	28-SSOP	12.64	11.39	10.10
ADS828E	ADS828E-ND	10-Bit, 75MHz ADC	28-SSOP	13.11	11.81	10.47
ADS830E	ADS830E-ND	8-Bit, 60MHz ADC	20-QSOP	5.51	4.41	3.43
ADS830E/2K5	ADS830ETR-ND	8-Bit, 60MHz ADC	20-QSOP	7872.50/2,500		
ADS831E	ADS831E-ND	8-Bit, 80MHz ADC	20-QSOP	6.39	5.12	3.98
ADS831E/2K5	ADS831ETR-ND	8-Bit, 80MHz ADC	20-QSOP	8865.00/2,500		
ADS850Y/2K5	ADS850YCT-ND	14-Bit, 10msps Self-calibrating ADC	48-TQFP	22.80	21.28	19.76
ADS850Y/2K5	ADS850YTR-ND	14-Bit, 10msps Self-calibrating ADC	48-TQFP	4845.00/250		
ADS900E	ADS900E-ND	10-Bit, 20MHz +3V, Supply ADC with Internal Ref.	28-SSOP	6.34	5.08	4.28
ADS901E	ADS901E-ND	10-Bit, 20MHz +3V, Supply ADC	28-SSOP	6.12	4.90	4.14
ADS930E	ADS930E-ND	8-Bit, 30MHz Sampling ADC with Internal Ref.	28-SSOP	4.86	3.89	3.03
ADS931E	ADS931E-ND	8-Bit, 30MHz Sampling ADC	28-SSOP	4.66	3.73	2.90
ADS1100A0IDBVT	296-12966-1-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	3.74	2.99	2.33
ADS1100A0IDBVT	296-12966-2-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	552.00/250		
ADS1100A1IDBVT	296-14298-1-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	3.74	2.99	2.33
ADS1100A1IDBVT	296-14298-2-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	552.00/250		
ADS1100A2IDBVT	296-14299-1-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	3.74	2.99	2.33
ADS1100A2IDBVT	296-14299-2-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	552.00/250		
ADS1100A3IDBVT	296-14300-1-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	3.74	2.99	2.33
ADS1100A3IDBVT	296-14300-2-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	552.00/250		
ADS1100A4IDBVT	296-14301-1-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	3.74	2.99	2.33
ADS1100A4IDBVT	296-14301-2-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	552.00/250		
ADS1100A5IDBVT	296-14302-1-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	3.74	2.99	2.33
ADS1100A5IDBVT	296-14302-2-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	552.00/250		
ADS1100A6IDBVT	296-14303-1-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	3.74	2.99	2.33
ADS1100A6IDBVT	296-14303-2-ND	16-Bit ADC, Self-Calibrating *NEW!*	SOT23-6	552.00/250		
ADS1110A0IDBVT	296-14461-1-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	4.16	3.33	2.59
ADS1110A0IDBVT	296-14461-2-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	615.25/250		
ADS1110A1IDBVT	296-14462-1-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	4.16	3.33	2.59
ADS1110A1IDBVT	296-14462-2-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	615.25/250		
ADS1110A2IDBVT	296-14463-1-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	4.16	3.33	2.59
ADS1110A2IDBVT	296-14463-2-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	615.25/250		
ADS1110A3IDBVT	296-14464-1-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	4.16	3.33	2.59
ADS1110A3IDBVT	296-14464-2-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	615.25/250		
ADS1110A4IDBVT	296-14465-1-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	4.16	3.33	2.59
ADS1110A4IDBVT	296-14465-2-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	615.25/250		
ADS1110A5IDBVT	296-14466-1-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	4.16	3.33	2.59
ADS1110A5IDBVT	296-14466-2-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	615.25/250		
ADS1110A6IDBVT	296-14467-1-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	4.16	3.33	2.59
ADS1110A6IDBVT	296-14467-2-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	615.25/250		
ADS1110A7IDBVT	296-14468-1-ND	16-Bit ADC w/Onboard Ref. *NEW!*	SOT23-6	4.16	3.33	2.59
ADS1110A7IDBVT	296-14468-2-ND	16-Bit ADC wi/Onboard Ref. *NEW!*	SOT23-6	615.25/250		
ADS1201U	ADS1201U-ND	High Dynamic Range Modulator	16-SOIC	9.23	8.31	7.37
ADS1202IPWT	296-14064-1-ND	1-Bit, 10MHz Delta-Sigma Modulator *NEW!*	8-TSSOP	5.60	4.48	3.78
ADS1202IPWT	296-14064-2-ND	1-Bit, 10MHz Delta-Sigma Modulator *NEW!*	8-TSSOP	910.00/250		
ADS1210P	ADS1210P-ND	24-Bit, Delta-Sigma ADC	18-Dip	15.38	13.85	12.28
ADS1210U	ADS1210U-ND	24-Bit, Delta-Sigma ADC	18-SOIC	15.38	13.85	12.28
ADS1211E	ADS1211E-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	28-SSOP	15.17	14.16	13.15
ADS1211P	ADS1211P-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-Dip	16.43	14.79	13.12
ADS1211U	ADS1211U-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-SOIC	16.43	14.79	13.12
ADS1212P	ADS1212P-ND	22-Bit, Delta-Sigma ADC	18-Dip	11.61	10.46	9.28
ADS1212U	ADS1212U-ND	22-Bit, Delta-Sigma ADC	18-SOIC	11.61	10.46	9.28
ADS1213E	ADS1213E-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	28-SSOP	13.61	12.26	10.87
ADS1213P	ADS1213P-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-Dip	13.06	11.76	10.43
ADS1213U	ADS1213U-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-SOIC	13.66	12.30	10.91
ADS1216Y/250	ADS1216Y/250CT-ND	24-Bit, Delta-Sigma ADC	48-TQFP	10.38	9.35	8.29
ADS1216Y/250	ADS1216Y/250TR-ND	24-Bit, Delta-Sigma ADC	48-TQFP	1985.75/250		
ADS1217IPFBT	296-12967-1-ND	24-Bit, 8-Channel Delta-Sigma ADC	48-TQFP	10.35	9.32	8.26
ADS1217IPFBT	296-12967-2-ND	24-Bit, 8-Channel Delta-Sigma ADC	48-TQFP	1979.50/250		
ADS1218Y/250	ADS1218Y/250CT-ND	24-Bit, Delta-Sigma ADC	48-TQFP	11.96	10.77	9.55
ADS1218Y/250	ADS1218Y/250TR-ND	24-Bit, Delta-Sigma ADC	48-TQFP	2288.75/250		
ADS1240E	ADS1240E-ND	24-Bit, Delta-Sigma ADC	24-SSOP	6.92	5.54	4.68
ADS1241E	ADS1241E-ND	24-Bit, Delta-Sigma ADC	28-SSOP	7.60	6.08	5.13
ADS1242IPWT	ADS1242IPWTCT-ND	24-Bit, Delta-Sigma ADC	16-TSSOP	6.54	5.24	4.42
ADS1242IPWT	ADS1242IPWTTR-ND	24-Bit, Delta-Sigma ADC	16-TSSOP	1062.75/250		
ADS1243IPWT	ADS1243IPWTCT-ND	24-Bit, Delta-Sigma ADC	20-TSSOP	7.22	5.78	4.88
ADS1243IPWT	ADS1243IPWTTR-ND	24-Bit, Delta-Sigma ADC	20-TSSOP	1173.25/250		
ADS1244IDGST	296-14003-1-ND	24-Bit, Low Power ADC *NEW!*	10-MSOP	5.60	4.48	3.78
ADS1244IDGST	296-14003-2-ND	24-Bit, Low Power ADC *NEW!*	10-MSOP	910.00/250		
ADS1250U	ADS1250U-ND	20-Bit, 25KHz ADC, DSP Interface	16-SOIC	10.50	9.45	8.38
ADS1251U	ADS1251U-ND	24-Bit, Delta-Sigma ADC	8-SOP	8.40	7.56	6.71
ADS1252U	ADS1252U-ND	24-Bit, 40KHz ADC	8-SOIC	8.40	7.56	6.71
ADS1253E/2K5	296-13060-1-ND	24-Bit, 20kHz, LP ADC	16-SSOP	10.13	9.12	8.09
ADS1253E/2K5	296-13060-2-ND	24-Bit, 20kHz, LP ADC	16-SSOP	18467.50/2,500		
ADS1254E	ADS1254E-ND	24-Bit, 20KHz, Low Power ADC	20-SSOP	10.10	9.09	8.06
ADS1254E/2K5	ADS1254E/2K5CT-ND	24-Bit, 20KHz, Low Power ADC	20-SSOP	10.13	9.12	8.09
ADS1254E/2K5	ADS1254E/2K5TR-ND	24-Bit, 20KHz, Low Power ADC	20-SSOP	18467.50/2,500		
ADS1286P	ADS1286P-ND	12-Bit, Micropower Sampling ADC	8-Dip	6.88	5.51	4.65
ADS1286PA	ADS1286PA-ND	12-Bit, 200KHz Unipol ADC	8-Dip	7.72	6.18	5.22
ADS1286U	ADS1286U-ND	12-Bit, Micropower Sampling ADC	8-SOIC	5.72	4.58	3.87
ADS1286UA	ADS1286UA-ND	12-Bit, 200KHz Unipol ADC	8-SOIC	6.42	5.14	4.34
ADS2806Y/1K5	ADS2806Y/1K5TR-ND	12-Bit, Dual, Hi-Speed ADC	64-TQFP	23674.50/1,500		
ADS2806Y/250	ADS2806Y/250CT-ND	12-Bit, Dual, Hi-Speed ADC	64-TQFP	19.17	17.90	16.62
ADS2806Y/250	ADS2806Y/250TR-ND	12-Bit, Dual, Hi-Speed ADC	64-TQFP	4073.75/250		
ADS2807Y/1K5	ADS2807Y/1K5CT-ND	12-Bit, Dual, Hi-Speed ADC	64-TQFP	24.51	22.88	21.25
ADS2807Y/1K5	ADS2807Y/1K5TR-ND	12-Bit, Dual, Hi-Speed ADC	64-TQFP	30270.00/1,500		
ADS5102IPFB	296-13062-ND	1.8V Analog Supply, 10-Bit, 65MSPS, ADC with Internal Reference	48-TQFP	11.48	10.34	9.17
ADS5103IPFB	296-13063-ND	1.8V Analog Supply, 10-Bit, 40MSPS, ADC with Internal Reference	48-TQFP	8.46	7.62	6.76
ADS5120CGHK	ADS5120CGHK-ND	10-Bit, CMOS ADC	257-BGA	49.04	45.77	42.50
ADS5203IPFB	296-13446-ND	3.3V, 10-Bit, Dual 40MSPS Low Power ADC	48-TQFP	14.54	13.10	11.62
ADS5204IPFB	296-13447-ND	3.3V, 10-Bit, Dual 40MSPS Low Power ADC with PGA	48-TQFP	16.61	14.96	13.27
ADS5410IPFB	296-13448-ND	12-Bit, 80MSPS CommsADC™ ADC	48-TQFP	32.78	30.59	28.41
ADS5421Y/T	ADS5421Y/TCT-ND	14-Bit, 40MHz, LP ADC	64-LQFP	27.36	25.54	23.72
ADS5421Y/T	ADS5421Y/TTR-ND	14-Bit, 40MHz, LP ADC	64-LQFP	5814.00/250		
ADS5422Y/250	ADS5422Y/250CT-ND	14-Bit, Sampling ADC	64-LQFP	41.33	38.57	35.82
ADS5422Y/250	ADS5422Y/250TR-ND	14-Bit, Sampling ADC	64-LQFP	8781.50/250		
ADS7800JP	ADS7800JP-ND	12-Bit, 3μS Sampling ADC	24-Dip	40.76	38.04	35.33
ADS7800JU	ADS7800JU-ND	12-Bit, 3μS Sampling ADC	24-SOIC	40.76	38.04	35.33
ADS7800KP	ADS7800KP-ND	12-Bit, 3μS Sampling ADC	24-Dip	48.90	45.64	42.38
ADS7800KU	ADS7800KU-ND	12-Bit, 3μS Sampling ADC	24-SOIC	48.90	45.64	42.38
ADS7804P	ADS7804P-ND	12-Bit, 10μS Sampling CMOS ADC	28-Dip	20.00	18.67	17.33
ADS7804PB	ADS7804PB-ND	12-Bit, 10μS Sampling CMOS ADC	28-Dip	26.46	24.70	22.94
ADS7804U	ADS7804U-ND	12-Bit, 10μS Sampling CMOS ADC	28-SOIC	19.04	17.77	16.50
ADS7804UB	ADS7804UB-ND	12-Bit, 10μS Sampling CMOS ADC	28-SOIC	25.52	23.82	22.12
ADS7805P	ADS7805P-ND	16-Bit, 10μS Sampling CMOS ADC	28-Dip .3	31.05	28.98	26.91
ADS7805U	ADS7805U-ND	16-Bit, 10μS Sampling CMOS ADC	28-SOIC	29.57	27.60	25.63
ADS7805UB	ADS7805UB-ND	16-Bit, 10μS Sampling CMOS ADC	28-SOIC	39.62	36.98	34.34
ADS7806P	ADS7806P-ND	LP 12-Bit Sampling CMOS ADC	28-Dip	17.19	16.05	14.90
ADS7806U	ADS7806U-ND	LP 12-Bit Sampling CMOS ADC	28-SOIC	17.19	16.05	14.90
ADS7807P	ADS7807P-ND	LP 16-Bit Sampling CMOS ADC	28-Dip .3	38.99	36.39	33.79
ADS7807PB	ADS7807PB-ND	LP 16-Bit Sampling CMOS ADC	28-Dip	46.43	43.33	40.24
ADS7807U	ADS7807U-ND	LP 16-Bit Sampling CMOS ADC	28-SOIC	37.14	34.67	32.19
ADS7807UB	ADS7807UB-ND	LP 16-Bit Sampling CMOS ADC	28-SOIC	44.57	41.60	38.63
ADS7808U	ADS7808U-ND	12-Bit, 10μS Sampling CMOS ADC	20-SOIC	16.31	14.69	12.73

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADS7808UB	ADS7808UB-ND	12-Bit, 10µS Sampling CMOS ADC	20-SOIC	19.67	18.36	17.05
ADS7809U	ADS7809U-ND	16-Bit, 10µS Sampling CMOS ADC	20-SOIC	29.57	27.60	25.63
ADS7809UB	ADS7809UB-ND	16-Bit, 10µS Sampling CMOS ADC	20-SOIC	39.62	36.98	34.34
ADS7810U	ADS7810U-ND	12-Bit, 800kHz Sampling CMOS ADC	28-SOIC	37.68	35.17	32.66
ADS7811U	ADS7811U-ND	16-Bit, 250kHz Sampling ADC	28-SOIC	49.04	45.77	42.50
ADS7812P	ADS7812P-ND	LP Serial 12-Bit Sampling ADC	16-Dip	16.80	15.68	14.56
ADS7812U	ADS7812U-ND	LP Serial 12-Bit Sampling ADC	16-SOIC	16.01	14.94	13.88
ADS7813P	ADS7813P-ND	LP Serial 16-Bit Sampling ADC	16-Dip	30.29	28.27	26.25
ADS7813U	ADS7813U-ND	LP Serial 16-Bit Sampling ADC	16-SOIC	28.85	26.93	25.00
ADS7815U	ADS7815U-ND	16-Bit, 250kHz Sampling CMOS ADC	28-SOIC	28.85	26.93	25.00
ADS7816E/250	ADS7816ECT-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	4.01	3.21	2.50
ADS7816E/250	ADS7816ETR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	628.50/250		
ADS7816EB/250	ADS7816EBCT-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	4.79	3.84	2.99
ADS7816EB/250	ADS7816EBTR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	708.25/250		
ADS7816EC/250	ADS7816ECCT-ND	12-Bit, 200KHz Micropower Sampling ADC	8-MSOP	5.36	4.29	3.31
ADS7816EC/250	ADS7816ECTR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	791.25/250		
ADS7816P	ADS7816P-ND	12-Bit, High-Speed Micropower Sampling ADC	8-Dip	3.96	3.17	2.47
ADS7816PB	ADS7816PB-ND	12-Bit, High Speed Micropower Sampling ADC	8-Dip	4.75	3.80	2.96
ADS7816PC	ADS7816PC-ND	12-Bit, High Speed Micropower Sampling ADC	8-Dip	5.31	4.25	3.31
ADS7816U	ADS7816U-ND	12-Bit, High-Speed Micropower Sampling ADC	8-SOIC	3.96	3.17	2.47
ADS7816UB	ADS7816UB-ND	12-Bit, High Speed Micropower Sampling ADC	8-SOIC	4.75	3.80	2.96
ADS7816UC	ADS7816UC-ND	12-Bit, High Speed Micropower Sampling ADC	8-SOIC	5.31	4.25	3.31
ADS7817ECT/250	ADS7817ECT-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	4.01	3.21	2.50
ADS7817ETR/250	ADS7817ETR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	628.50/250		
ADS7817EB/250	ADS7817EBCT-ND	12-Bit, 200KHz Differential Micropower, Sampling ADC	8-MSOP	4.79	3.84	2.99
ADS7817EB/250	ADS7817EBTR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	708.25/250		
ADS7817EC/250	ADS7817ECCT-ND	12-Bit, 200KHz Differential Micropower, Sampling ADC	8-MSOP	5.33	4.27	3.32
ADS7817EC/250	ADS7817ECTR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	791.25/250		
ADS7817U	ADS7817U-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	3.96	3.17	2.47
ADS7817UB	ADS7817UB-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	4.34	3.48	2.71
ADS7817UC	ADS7817UC-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	5.31	4.25	3.31
ADS7818E/250	ADS7818ECT-ND	12-Bit, 500KHz ADC (±2 LSB)	8-MSOP	5.06	4.05	3.15
ADS7818E/250	ADS7818ETR-ND	12-Bit, 500KHz ADC (±2 LSB)	8-MSOP	748.25/250		
ADS7818EB/250	ADS7818EBCT-ND	12-Bit, 500KHz ADC (±1 LSB)	8-MSOP	5.40	4.32	3.65
ADS7818EB/250	ADS7818EBTR-ND	12-Bit, 500KHz ADC (±1 LSB)	8-MSOP	877.50/250		
ADC7818P	ADS7818P-ND	12-Bit, 500KHz ADC (±1 LSB)	8-Dip	5.02	4.02	3.13
ADS7818PB	ADS7818PB-ND	12-Bit, 500KHz ADC (±1 LSB)	8-Dip	5.36	4.29	3.62
ADS7822E/250	ADS7822ECT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	3.17	2.54	1.98
ADS7822E/250	ADS7822ETR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	468.75/250		
ADS7822EB/250	ADS7822EBCT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	3.47	2.78	2.16
ADS7822EB/250	ADS7822EBTR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	498.75/250		
ADS7822EC/250	ADS7822ECCT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	3.78	3.03	2.36
ADS7822EC/250	ADS7822ECTR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	552.00/250		
ADS7822P	ADS7822P-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-Dip	3.13	2.51	1.95
ADS7822U	ADS7822U-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	3.13	2.51	1.95
ADS7822UB	ADS7822UB-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	3.44	2.76	2.15
ADS7822UC	ADS7822UC-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	3.74	2.99	2.33
ADS7823E/250	ADS7823E/250CT-ND	12-Bit, LP Sampling CMOS ADC	8-TSSOP	5.14	4.12	3.47
ADS7823E/250	ADS7823E/250TR-ND	12-Bit, LP Sampling CMOS ADC	8-TSSOP	835.25/250		
ADS7823EB/250	ADS7823EB/250CT-ND	12-Bit, LP Sampling CMOS ADC	8-TSSOP	6.18	4.95	4.18
ADS7823EB/250	ADS7823EB/250TR-ND	12-Bit, LP Sampling CMOS ADC	8-TSSOP	1004.25/250		
ADS7824P	ADS7824P-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-Dip .3	18.62	17.38	16.14
ADS7824PB	ADS7824PB-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-Dip	20.39	19.03	17.67
ADS7824U	ADS7824U-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	17.73	16.55	15.37
ADS7824UB	ADS7824UB-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	19.50	18.20	16.90
ADS7825P	ADS7825P-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-Dip .3	42.09	39.29	36.48
ADS7825U	ADS7825U-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	41.04	38.31	35.57
ADS7825UB	ADS7825UB-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	48.11	44.90	41.70
ADS7828E/250	296-12402-1-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	6.08	4.87	4.11
ADS7828E/250	296-12402-2-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	988.00/250		
ADS7828EB/250	296-12756-1-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	7.30	5.84	4.93
ADS7828EB/250	296-12756-2-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	1186.25/250		
ADS7832BN	ADS7832BN-ND	12-Bit, 4-Ch. Auto-calibrating ADC	28-LCC	23.07	21.54	20.00
ADS7832BP	ADS7832BP-ND	12-Bit, 4-Ch. Auto-calibrating ADC	28-Dip	24.23	22.61	21.00
ADS7834EB/250	ADS7834EBCT-ND	12-Bit, 500kHz LP Sampling ADC	8-MSOP	5.32	4.26	3.60
ADS7834EB/250	ADS7834EBTR-ND	12-Bit, 500kHz LP Sampling ADC	8-MSOP	884.50/250		
ADS7835E/250	ADS7835ECT-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±2LSB	8-MSOP	5.04	4.04	3.41
ADS7835E/250	ADS7835ETR-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±2LSB	8-MSOP	838.00/250		
ADS7835EB/250	ADS7835EBCT-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±1LSB	8-MSOP	6.00	4.80	4.05
ADS7835EB/250	ADS7835EBTR-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±1LSB	8-MSOP	971.75/250		
ADS7841E	ADS7841E-ND	12-Bit, 4-Ch. Serial Output ADC	16-SSOP	5.33	4.27	3.32
ADS7841EB	ADS7841EB-ND	12-Bit, 4-Ch. Serial Output ADC	16-SSOP	5.68	4.55	3.84
ADS7841P	ADS7841P-ND	12-Bit, 4-Ch. Serial Output ADC	16-Dip	5.58	4.47	3.48
ADS7841PB	ADS7841PB-ND	12-Bit, 4-Ch. Serial Output ADC	16-Dip	5.92	4.74	4.00
ADS7842E	ADS7842E-ND	12-Bit, 4-Ch. Parallel Output ADC	28-SSOP	5.56	4.45	3.76
ADS7842EB	ADS7842EB-ND	12-Bit, 4-Ch. Parallel Output ADC	28-SSOP	6.68	5.35	4.51
ADS7843E	ADS7843E-ND	4-Wire Touch Screen Controller	16-SSOP	3.58	2.87	2.23
ADS7844E	ADS7844E-ND	12-Bit, 8 Channel, 200KHz ADC	20-QSOP	5.48	4.39	3.70
ADS7844E/2K5	ADS7844ETR-ND	12-Bit, 8 Channel, 200KHz ADC	20-QSOP	8555.00/2,500		
ADS7844EB	ADS7844EB-ND	12-Bit, 8 Channel, 200KHz ADC	20-QSOP	6.56	5.25	4.43
ADS7844E/2K5	ADS7844EBTR-ND	12-Bit, 8 Channel, 200KHz ADC	20-QSOP	10230.00/2,500		
ADS7844N	ADS7844N-ND	12-Bit, 8 Channel, 200KHz ADC	20-SSOP	5.48	4.39	3.70
ADS7844NB	ADS7844NB-ND	12-Bit, 8 Channel, 200KHz ADC	20-SSOP	6.56	5.25	4.43
ADS7845E	ADS7845E-ND	5-Wire Touch Screen Controller	16-SSOP	7.60	6.08	5.13
ADS7846E	ADS7846E-ND	4-Wire Touch Screen Controller	16-SSOP	4.10	3.28	2.55
ADS7846IGQCR	296-14470-1-ND	4-Wire Touch Screen Controller *NEW!*	48-VFBGA	5.04	4.04	3.14
ADS7846IGQCR	296-14470-2-ND	4-Wire Touch Screen Controller *NEW!*	48-VFBGA	7055.00/2,500		
ADS7846N	ADS7846N-ND	4-Wire Touch Screen Controller	16-TSSOP	4.10	3.28	2.55
ADS7852Y/250	ADS7852YCT-ND	8-Ch., 12-Bit, Parallel Output ADC, ±2LSB	32-TQFP	6.18	4.95	4.18
ADS7852Y/250	ADS7852YTR-ND	8-Ch., 12-Bit, Parallel Output ADC, ±2LSB	32-TQFP	1004.25/250		
ADS7852YB/250	ADS7852YBCT-ND	8-Ch., 12-Bit, Parallel Output ADC, ±1LSB	32-TQFP	7.42	5.94	5.01
ADS7852YB/250	ADS7852YBTR-ND	8-Ch., 12-Bit, Parallel Output ADC, ±1LSB	32-TQFP	1205.75/250		
ADS7861E	ADS7861E-ND	Dual 12-Bit, 500kHz Simult. Sampling Serial ADC	24-SSOP	7.32	5.86	4.95
ADS7861EB	ADS7861EB-ND	Dual 12-Bit, 500kHz Simult. Sampling Serial ADC, ±1LSB	24-SSOP	8.78	7.03	5.93
ADS7862Y/250	ADS7862YCT-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±2LSB	32-TQFP	8.63	7.77	6.89
ADS7862Y/250	ADS7862YTR-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±2LSB	32-TQFP	1651.25/250		
ADS7862YB/250	ADS7862YBCT-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±1LSB	32-TQFP	10.35	9.32	8.26
ADS7862YB/250	ADS7862YBTR-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±1LSB	32-TQFP	1966.75/250		
ADS7864Y/250	ADS7864YCT-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	10.05	9.05	8.02
ADS7864Y/250	ADS7864YTR-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	1922.00/250		
ADS7864YB/250	ADS7864YBCT-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	11.56	10.41	9.24
ADS7864YB/250	ADS7864YBTR-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	2212.25/250		
ADS7870EA	ADS7870EA-ND	12-Bit, Data Acquisition System	28-SSOP	7.50	6.00	5.07
ADS8320E/250	ADS8320ECT-ND	16-Bit, 2.7V to 5V Micropower Serial ADC, ±2LSB	8-MSOP	9.32	7.46	6.30
ADS8320E/250	ADS8320ETR-ND	16-Bit, 2.7V to 5V Micropower Serial ADC, ±2LSB	8-MSOP	1514.50/250		
ADS8320EB/250	ADS8320EBCT-ND	16-Bit, 2.7V to 5V Micropower Serial ADC, ±1LSB	8-MSOP	8.93	8.04	7.13
ADS8320EB/250	ADS8320EBTR-ND	16-Bit, 2.7V to 5V Micropower Serial ADC, ±1LSB	8-MSOP	1708.50/250		
ADS8321E/250	ADS8321ECT-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	9.32	7.46	6.30
ADS8321E/250	ADS8321ETR-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	1514.50/250		
ADS8321EB/250	ADS8321EBCT-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	23.56	20.19	18.51
ADS8321EB/250	ADS8321EBTR-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	1708.50/250		
ADS8322Y/250CT	ADS8322Y/250CT-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	11.31	10.19	9.04
ADS8322Y/250TR	ADS8322Y/250TR-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	2164.25/250		
ADS8322Y/2KCT	ADS8322Y/2KCT-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	11.31	10.19	9.04
ADS8322Y/2KTR	ADS8322Y/2KTR-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	16772.00/2,000		
ADS8322YB/250	296-13772-1-ND	16-Bit, 500kHz, Micropower Sampling ADC	32-TQFP	14.14	12.74	11.30
ADS8322YB/250	296-13772-2-ND	16-Bit, 500kHz, Micropower Sampling ADC	32-TQFP	2706.25/250		
ADS8323YB/250	ADS8323YB/250CT-ND	16-Bit, HS Bipolar ADC	32-TQFP	14.14	12.74	11.30
ADS8323YB/250	ADS8323YB/250TR-ND	16-Bit, HS Bipolar ADC	32-TQFP	2706.25/250		
ADS8323Y/250	ADS8323Y/250CT-ND	16-Bit, HS Bipolar ADC	32-TQFP	11.31	10.19	9.04
ADS8323Y/250	ADS8323Y/250TR-ND	16-Bit, HS Bipolar ADC	32-TQFP	2164.25/250		
ADS8324E/250	296-13064-1-ND	14-Bit, HS, 1.8V, MicroPower Sampling ADC	8-MSOP	7.50	6.00	5.07
ADS8324E/250	296-13064-2-ND	14-Bit, HS, 1.8V, MicroPower Sampling ADC	8-MSOP	1218.75/250		
ADS8325IBDGKT	ADS8325IBDGKTCT-ND	16-Bit, Micropower Sampling ADC	8-MSOP	10.75	9.68	8.58
ADS8325IBDGKT	ADS8325IBDGKTTR-ND	16-Bit, Micropower Sampling ADC	8-MSOP	2056.00/250		
ADS8341E	ADS8341E-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	11.21	10.10	8.96
ADS8341EB	ADS8341EB-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	12.88	11.60	10.44
ADS8343E	ADS8343E-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	11.21	10.10	8.96
ADS8343EB	ADS8343EB-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	12.88	11.60	10.29
ADS8344E	ADS8344E-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-QSOP	12.01	10.82	9.59
ADS8344EB	ADS8344EB-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-QSOP	14.41	12.98	11.51
ADS8344N	ADS8344N-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-SSOP	12.01	10.82	9.59
ADS8344NB	ADS8344NB-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-SSOP	14.41	12.98	11.51
ADS8361IDBQ	296-13812-5-ND	Dual, 500KHz, 16-Bit, Simultaneous Sampling ADC *NEW!*	24-SSOP	15.59	14.04	12.45
ADS8364Y/250	296-13449-1-ND	16-Bit, 250KSPS, 6-Ch. Simultaneous Sampling ADC	64-TQFP	24.56	22.92	21.29
ADS8364Y/250	296-13449-2-ND	16-Bit, 250KSPS, 6-Ch. Simultaneous Sampling ADC	64-TQFP	5217.94/250		
ADS8383IBPFBT	296-14065-1-ND	18-Bit, 500KHz Unipolar Input ADC *NEW!*	48-TQFP	28.61	26.70	24.80
ADS8383IBPFBT	296-14065-2-ND	18-Bit, 500KHz Unipolar Input ADC *NEW!*	48-TQFP	6078.50/250		
ADS8383IPFBT	296-14066-1-ND	18-Bit, 500KHz Unipolar Input ADC *NEW!*	48-TQFP	21.35	19.93	18.50
ADS8383IPFBT	296-14066-2-ND	18-Bit, 500KHz Unipolar Input ADC *NEW!*	48-TQFP	4535.75/250		
ADS8401IBPFBT	296-14067-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC *NEW!*	48-TQFP	29.81	27.82	25.84
ADS8401IBPFBT	296-14067-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC *NEW!*	48-TQFP	6333.50/250		
ADS8401IPFBT	296-14068-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC *NEW!*	48-TQFP	17.03	15.89	14.76
ADS8401IPFBT	296-14068-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC *NEW!*	48-TQFP	3617.75/250		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADS8402IBPFBT	296-14069-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC *NEW!*	48-TQFP	31.22	29.14	27.06
ADS8402IBPFBT	296-14069-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC *NEW!*	48-TQFP	6633.25/250		
ADS8402IPFBT	296-14070-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC *NEW!*	48-TQFP	17.84	16.65	15.46
ADS8402IPFBT	296-14070-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC *NEW!*	48-TQFP	3790.00/250		
AFE1230E	AFE1230E-ND	G.SHDSL/HDSL2 Analog Front End	28-SSOP	20.76	19.38	18.00
AFE1144E	AFE1144E-ND	HDSL/MDSL Analog Front End	28-SSOP	14.41	12.98	11.51
DDC101U	DDC101U-ND	20-Bit, ADC	24-SOIC	28.43	26.53	24.64
DDC112U	DDC112U-ND	20-Bit, 2-Channel, I-Input ADC	28-SOIC	16.41	15.32	14.23
DDC112UK	DDC112UK-ND	20-Bit, 2-Channel, I-Input ADC	28-SOIC	21.12	19.72	18.31
MSC1210Y2PAGT	MSC1210Y2PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	14.16	12.75	11.31
MSC1210Y3PAGT	MSC1210Y3PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	15.58	14.03	12.44
MSC1210Y4PAGT	MSC1210Y4PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	15.30	14.28	13.26
MSC1210Y5PAGT	MSC1210Y5PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	17.09	15.95	14.81
THS14F01IPFB	296-2843-ND	14 Bit, 1Msps, 1-Ch. 3.3V DSP Compatible ADC with FIFO	48-TQFP	14.49	13.05	11.58
THS14F03IPFB	296-2845-ND	14 Bit, 3Msps, 1-Ch. 3.3V DSP Compatible ADC with FIFO	48-TQFP	17.07	15.94	14.80
THS0842IPFB	296-2171-ND	8-Bit, 40Msps, 2-Ch. 3.3V Parallel ADC	48-TQFP	9.10	7.28	6.15
THS1007IDA	296-2823-5-ND	10-Bit, 6Msps, 4-Channel 5V Parallel ADC	32-TSSOP	7.84	6.28	5.30
THS1009IDA	296-2825-5-ND	10 Bit, 8Msps, 2-Ch. Parallel ADC	32-TSSOP	6.80	5.44	4.59
THS1030CDW	296-2173-5-ND	10 Bit, 30Msps, 1-Ch. 2.7-5.5V ADC	28-SOIC	6.72	5.38	4.54
THS1030IDW	296-2826-5-ND	10 Bit, 30Msps, 1-Ch. 2.7-5.5V ADC	28-SOIC	7.22	5.78	4.88
THS1030IPW	296-2827-5-ND	10 Bit, 30Msps, 1-Ch., 2.7-5.5V ADC	28-TSSOP	7.22	5.78	4.88
THS1031CDW	296-2174-5-ND	10 Bit, 30Msps, 1-Ch. 2.7-5.5V ADC	28-SOIC	7.42	5.94	5.01
THS1031IDW	296-2828-5-ND	10 Bit, 30Msps, 1-Ch. 2.7-5.5V ADC	28-SOIC	7.98	6.39	5.39
THS1031IPW	296-2829-5-ND	10 Bit, 30Msps, 1-Ch., 2.7-5.5V ADC	28-TSSOP	7.98	6.39	5.39
THS1040IDW	296-13329-5-ND	3V, 10-Bit, 40-MSPS CMOS ADC	28-SOIC	9.92	7.94	6.70
THS1040IPW	296-13330-5-ND	3V, 10-Bit, 40-MSPS CMOS ADC	28-TSSOP	9.92	7.94	6.70
THS1041IDW	296-13331-5-ND	10-Bit, 40-MSPS ADC with PGA and Clamp	28-SOIC	8.78	7.91	7.01
THS1041IPW	296-13332-5-ND	10-Bit, 40-MSPS ADC with PGA and Clamp	28-TSSOP	8.78	7.91	7.01
THS1060CPHP	296-2175-ND	10 Bit, 60Msps, 1-Channel 5V IF Sampling ADC	48-TQFP	9.58	7.67	6.47
THS1206CDA	296-2176-5-ND	12 Bit, 6Msps, 4-Channel 3-5V IF Sampling ADC	32-TSSOP	11.70	10.53	9.34
THS1206IDA	296-2833-5-ND	12 Bit, 6Msps, 4-Channel 3-5V IF Sampling ADC	32-TSSOP	13.84	12.47	11.06
THS1207IDA	296-2834-5-ND	12 Bit, 6Msps, 4-Channel 5V IF Sampling ADC	32-TSSOP	12.98	11.69	10.37
THS1209IDA	296-2836-5-ND	12 Bit, 8Msps, 2-Channel 8V IF Sampling ADC	32-TSSOP	14.01	12.62	11.19
THS1215IDW	296-10010-5-ND	12-Bit, 15Msps, Low Power ADC with ENOB	28-SOIC	15.76	14.19	12.59
THS1215IPW	296-10011-5-ND	12-Bit, 15Msps, Low Power ADC with ENOB	28-TSSOP	13.14	11.84	10.50
THS1230IDW	296-2837-5-ND	12 Bit, 30Msps, 3.3V 1-Ch. ADC	28-SOIC	18.39	17.17	15.94
THS1230IPW	296-2838-5-ND	12 Bit, 30Msps, 3.3V 1-Ch. ADC	28-TSSOP	15.32	14.30	13.28
THS1240IPHP	296-2839-ND	12 Bit, 40Msps, 5V IF Sampling ADC	48-HTQFP	22.14	20.67	19.19
THS1401IPFB	296-2840-ND	14 Bit, 1Msps, 1-Ch. 3.3V ADC with Reference	48-TQFP	13.39	12.06	10.70
THS1403CPFB	296-2178-ND	14-Bit, 3Msps, 1-Ch. 3.3V ADC with Reference	48-TQFP	15.44	13.91	12.33
THS1403IPFB	296-2841-ND	14-Bit, 3Msps, 1-Ch. 3.3V ADC with Reference	48-TQFP	16.61	14.96	13.27
THS1408IPFB	296-2842-ND	14-Bit, 8Msps, 4-Ch. 3.3V ADC with Reference	48-TQFP	20.10	18.76	17.42
THS10064CDA	296-2172-5-ND	10-Bit, 6Msps, 4-Channel, 3-5V Sampling ADC	32-TSSOP	7.50	6.00	5.07
THS10064IDA	296-2822-5-ND	10-Bit, 6Msps, 4-Channel, 3-5V Sampling ADC	32-TSSOP	8.88	7.11	6.00
THS10082IDA	296-2824-5-ND	10-Bit, 4Msps 2-Ch. Parallel ADC	32-TSSOP	7.84	6.28	5.30
THS12082IDA	296-2835-5-ND	12 Bit, 8Msps 2-Channel, 5V IF Sampling ADC	32-TSSOP	14.88	13.40	11.88
TLC0820ACDB	296-2846-5-ND	8 Bit, ADC Modified Flash Converter	20-SSOP	3.85	3.08	2.40
TLC0820ACDBR	296-2846-1-ND	8 Bit, ADC Modified Flash Converter	20-SSOP	3.87	3.10	2.41
TLC0820ACDBR	296-2846-2-ND	8 Bit, ADC Modified Flash Converter	20-SSOP	4386.00/2,000		
TLC0820ACDW	296-2847-5-ND	8 Bit, ADC Modified Flash Converter	20-SOIC	3.85	3.08	2.40
TLC0820ACFN	296-2848-5-ND	8 Bit, ADC Modified Flash Converter	20-PLCC	3.85	3.08	2.40
TLC0820ACN	296-2849-5-ND	8 Bit, ADC Modified Flash Converter	20-Dip	4.05	3.24	2.52
TLC0820AIDW	296-2850-5-ND	8 Bit, ADC Modified Flash Converter	20-SOIC	4.12	3.30	2.57
TLC0820AIFN	296-2851-5-ND	8 Bit, ADC Modified Flash Converter	20-PLCC	4.12	3.30	2.57
TLC0820AIN	296-2852-5-ND	8 Bit, ADC Modified Flash Converter	20-Dip	4.34	3.48	2.71
TLC0831CD	296-2853-5-ND	8-Bit, 31ksps, 1-Ch. 5V Serial ADC	8-SOIC	2.61	2.09	1.63
TLC0831CP	296-2854-5-ND	8-Bit, 31ksps, 1-Ch. 5V Serial ADC	8-Dip	2.75	2.20	1.71
TLC0831ID	296-2855-5-ND	8-Bit, 31ksps, 1-Ch. 5V Serial ADC	8-SOIC	2.81	2.25	1.75
TLC0831IP	296-2856-5-ND	8-Bit, 31ksps, 1-Ch. 5V Serial ADC	8-Dip	2.95	2.36	1.84
TLC0832CD	296-2857-5-ND	8-Bit, 22ksps, 2-Ch. 5V Serial ADC	8-SOIC	2.61	2.09	1.63
TLC0832CP	296-2858-5-ND	8-Bit, 22ksps, 2-Ch. 5V Serial ADC	8-Dip	2.61	2.09	1.63
TLC0832ID	296-2859-5-ND	8-Bit, 22ksps, 2-Ch. 5V Serial ADC	8-SOIC	2.81	2.25	1.75
TLC0832IP	296-2860-5-ND	8-Bit, 22ksps, 2-Ch. 5V Serial ADC	8-Dip	2.81	2.25	1.75
TLC0834CD	296-2861-5-ND	8-Bit, 20ksps, 4-Ch. 5V Serial ADC	14-SOIC	2.72	2.18	1.70
TLC0834CN	296-2862-5-ND	8-Bit, 20ksps, 4-Ch. 5V Serial ADC	14-Dip	2.88	2.31	1.80
TLC0834ID	296-2863-5-ND	8-Bit, 20ksps, 4-Ch. 5V Serial ADC	14-SOIC	2.93	2.34	1.82
TLC0834IN	296-2864-5-ND	8-Bit, 20ksps, 4-Ch. 5V Serial ADC	14-Dip	3.08	2.47	1.92
TLC0838CDW	296-2865-5-ND	8-Bit, 20ksps, 8-Ch. 5V Serial ADC	20-SOIC	2.72	2.18	1.70
TLC0838CN	296-2866-5-ND	8-Bit, 20ksps, 8-Ch. 5V Serial ADC	20-Dip	2.88	2.31	1.80
TLC0838IDW	296-2867-5-ND	8-Bit, 20ksps, 8-Ch. 5V Serial ADC	20-SOIC	2.93	2.34	1.82
TLC0838IN	296-2868-5-ND	8-Bit, 20ksps, 8-Ch. 5V Serial ADC	20-Dip	3.08	2.47	1.92
TLC0838IPW	296-2869-5-ND	8-Bit, 20ksps, 8-Ch. 5V Serial ADC	20-TSSOP	2.93	2.34	1.82
TLC540IDW	296-2919-5-ND	8-Bit, 75ksps, 12-Ch. 5V Serial ADC	20-SOIC	3.44	2.76	2.15
TLC540IFN	296-2920-5-ND	8-Bit, 75ksps, 12-Ch. 5V Serial ADC	20-PLCC	3.44	2.76	2.15
TLC540IN	296-2921-5-ND	8-Bit, 75ksps, 12-Ch. 5V Serial ADC	20-Dip	3.44	2.76	2.15
TLC541IDW	296-2922-5-ND	8-Bit, 40ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.02	2.42	1.88
TLC541IFN	296-2923-5-ND	8-Bit, 40ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.02	2.42	1.88
TLC541IFNR	296-1331-1-ND	8-Bit, 40ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.06	2.45	1.91
TLC541IFNR	296-1331-2-ND	8-Bit, 40ksps, 11-Ch. 5V Serial ADC	20-PLCC	1734.00/1,000		
TLC541IN	296-1850-5-ND	8-Bit, 40ksps, 11-Ch. 5V Serial ADC	20-Dip	3.02	2.42	1.88
TLC542CDW	296-1332-5-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-SOIC	2.81	2.25	1.75
TLC542CDWR	296-1332-1-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-SOIC	2.86	2.29	1.78
TLC542CDWR	296-1332-2-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-SOIC	3238.00/2,000		
TLC542CN	296-2924-5-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-Dip	2.81	2.25	1.75
TLC542IDW	296-1333-5-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.04	2.43	1.89
TLC542IDWR	296-1333-1-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.06	2.45	1.91
TLC542IDWR	296-1333-2-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-SOIC	3468.00/2,000		
TLC542IFN	296-1334-5-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.04	2.43	1.89
TLC542IFNR	296-1334-1-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.06	2.45	1.91
TLC542IFNR	296-1334-2-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-PLCC	1734.00/1,000		
TLC542IN	296-2927-5-ND	8-Bit, 25ksps, 11-Ch. 5V Serial ADC	20-Dip	3.17	2.54	1.98
TLC545CFN	296-2928-5-ND	8-Bit, 76ksps, 19-Ch. 5V Serial ADC	28-PLCC	5.18	4.15	3.50
TLC545CN	296-2929-5-ND	8-Bit, 76ksps, 19-Ch. 5V Serial ADC	28-Dip	5.46	4.37	3.69
TLC545IFN	296-2930-5-ND	8-Bit, 76ksps, 19-Ch. 5V Serial ADC	28-PLCC	5.56	4.45	3.76
TLC545IN	296-2931-5-ND	8-Bit, 76ksps, 19-Ch. 5V Serial ADC	28-Dip	5.84	4.68	3.95
TLC548CD	296-2934-5-ND	8-Bit, 45.5ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.45	1.97	1.53
TLC548CP	296-2935-5-ND	8-Bit, 45.5ksps, 1-Ch. 3-6V Serial ADC	8-Dip	2.59	2.07	1.61
TLC548ID	296-2936-5-ND	8-Bit, 45.5ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.63	2.11	1.64
TLC548IP	296-2937-5-ND	8-Bit, 45.5ksps, 1-Ch. 3-6V Serial ADC	8-Dip	2.77	2.22	1.73
TLC549CD	296-1335-5-ND	8-Bit, 40ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.15	1.72	1.29
TLC549CDR	296-1335-1-ND	8-Bit, 40ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.20	1.76	1.32
TLC549CDR	296-1335-2-ND	8-Bit, 40ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2815.00/2,500		
TLC549CP	296-1853-5-ND	8-Bit, 40ksps, 1-Ch. 3-6V Serial ADC	8-Dip	2.25	1.80	1.35
TLC549ID	296-1854-5-ND	8-Bit, 40ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.30	1.84	1.38
TLC549IP	296-1855-5-ND	8-Bit, 40ksps, 1-Ch. 3-6V Serial ADC	8-Dip	2.43	1.94	1.46
TLC1514ID	296-2180-5-ND	10-Bit, 400ksps, 4-Ch. 5V Serial ADC	16-SOIC	5.24	4.20	3.54
TLC1514IPW	296-2870-5-ND	10-Bit, 400ksps, 4-Ch. 5V Serial ADC	16-TSSOP	5.24	4.20	3.54
TLC1518IDW	296-2181-5-ND	10-Bit, 400ksps, 8-Ch. 5V Serial ADC	20-SOIC	6.24	5.00	4.22
TLC1518IPW	296-2871-5-ND	10-Bit, 400ksps, 8-Ch. 5V Serial ADC	20-TSSOP	6.24	5.00	4.22
TLC1541CDW	296-2872-5-ND	10-Bit, 32ksps, 11-Ch. 5V Serial ADC	20-SOIC	5.80	4.64	3.92
TLC1541CFN	296-2873-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-PLCC	5.80	4.64	3.92
TLC1541CN	296-2874-5-ND	10-Bit, 32ksps, 11-Ch. 5V Serial ADC	20-Dip	6.10	4.88	4.12
TLC1541IDW	296-2875-5-ND	10-Bit, 32ksps, 11-Ch. 5V Serial ADC	20-SOIC	6.24	5.00	4.22
TLC1541IN	296-2182-5-ND	10-Bit, 32ksps, 11-Ch. 5V Serial ADC	20-Dip	6.54	5.24	4.42
TLC1541IFN	296-2876-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-PLCC	6.24	5.00	4.22
TLC1542CDW	296-2877-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-SOIC	5.09	4.07	3.17
TLC1542CFN	296-2878-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-PLCC	5.09	4.07	3.17
TLC1542CN	296-2879-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-Dip	5.09	4.07	3.17
TLC1542IDW	296-2880-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-SOIC	5.47	4.38	3.41
TLC1542IN	296-2881-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-Dip	5.47	4.38	3.41
TLC1542QFN	296-2882-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-PLCC	5.56	4.45	3.46
TLC1543CDB	296-2883-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-SSOP	3.67	2.94	2.29
TLC1543CDW	296-1804-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.67	2.94	2.29
TLC1543CDWR	296-1804-2-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-SOIC	4208.00/2,000		
TLC1543CFN	296-1805-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.67	2.94	2.29
TLC1543CN	296-2885-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-Dip	3.87	3.10	2.41
TLC1543IDW	296-2886-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.94	3.15	2.45
TLC1543IFN	296-2887-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.94	3.15	2.45
TLC1543IN	296-2888-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-Dip	4.14	3.32	2.58
TLC1543QDB	296-2889-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-SSOP	4.37	3.50	2.72
TLC1543QDW	296-2890-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-SOIC	4.37	3.50	2.72
TLC1543QFN	296-2891-5-ND	10-Bit, 38ksps, 11-Ch. 5V Serial ADC	20-PLCC	4.37	3.50	2.72
TLC1549CD	296-2892-5-ND	10-Bit, 38ksps, 1-Ch. 5V Serial ADC	8-SOIC	3.67	2.94	2.29
TLC1549CP	296-1806-5-ND	10-Bit, 38ksps, 1-Ch. 5V Serial ADC	8-Dip	3.85	3.08	2.40
TLC1549ID	296-2893-5-ND	10-Bit, 38ksps, 1-Ch. 5V Serial ADC	8-SOIC	3.94	3.15	2.45
TLC1549IP	296-2894-5-ND	10-Bit, 38ksps, 1-Ch. 5V Serial ADC	8-Dip	4.14	3.32	2.58
TLC1550IDW	296-2895-5-ND	10-Bit, 164ksps, 10-Channel 5V Parallel Out ADC	24-SOIC	7.04	5.64	4.76
TLC1551IDW	296-2896-5-ND	10-Bit, 164ksps, 10-Channel 5V Parallel Out ADC	24-SOIC	6.06	4.85	4.10
TLC2543CDB	296-2897-5-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-SSOP	8.00	6.40	5.40
TLC2543CDW	296-1307-5-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-SOIC	8.00	6.40	5.40
TLC2543CDWR	296-1307-1-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-SOIC	8.04	6.44	5.43
TLC2543CDWR	296-1307-2-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-SOIC	10050.00/2,000		
TLC2543CFN	296-2898-5-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-PLCC	8.00	6.40	5.40
TLC2543CN	296-1816-5-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-Dip	8.00	6.40	5.40
TLC2543IDB	296-2899-5-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-SSOP	8.60	6.88	5.81
TLC2543IDW	296-2900-5-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-SOIC	8.60	6.88	5.81
TLC2543IFN	296-2901-5-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-PLCC	8.60	6.88	5.81
TLC2543IN	296-1817-5-ND	12-Bit, 66ksps, 11-Ch. 5V Serial ADC	20-Dip	8.60	6.88	5.81
TLC2551ID	296-2909-5-ND	12-Bit, 400ksps, 1-Ch. 5V Serial ADC	8-SOIC	7.60	6.08	5.13
TLC2551IDGK	296-2910-5-ND	12-Bit, 400ksps, 1-Ch. 5V Serial ADC	8-MSOP	7.60	6.08	5.13
TLC2552ID	296-2911-5-ND	12-Bit, 400ksps, 2-Ch. 5V Serial ADC	8-SOIC	7.60	6.08	5.13
TLC2552IDGK	296-2912-5-ND	12-Bit, 400ksps, 1-Ch. 5V Serial ADC	8-MSOP	7.60	6.08	5.13
TLC2554ID	296-2913-5-ND	12-Bit, 400ksps, 4-Ch. 5V Serial ADC	16-SOIC	9.10	8.19	7.27
TLC2554IPW	296-2914-5-ND	12-Bit, 400ksps, 4-Ch. 5V Serial ADC	16-TSSOP	8.58	7.73	6.85
TLC2555ID	296-2915-5-ND	12-Bit, 400ksps, 1-Ch. 5V Serial ADC	8-SOIC	7.60	6.08	5.13
TLC2555IDGK	296-2916-5-ND	12-Bit, 400ksps, 1-Ch. 5V Serial ADC	8-MSOP	7.60	6.08	5.13
TLC2558IDW	296-2917-5-ND	12-Bit, 400ksps, 8-Ch. 5V Serial ADC	20-SOIC	8.55	7.70	6.83
TLC2558IPW	296-2918-5-ND	12-Bit, 400ksps, 8-Ch. 5V Serial ADC	20-TSSOP	8.55	7.70	6.83
TLC2574IDW	296-10255-5-ND	12-Bit, 200ksps, 4-Ch. Serial Out ADC	20-SOIC	9.54	7.64	6.44
TLC2574IPW	296-10256-5-ND	12-Bit, 200ksps, 4-Channel Serial Out ADC	20-TSSOP	9.54	7.64	6.44
TLC2578IDW	296-10257-5-ND	12-Bit, 200ksps, 8-Ch. Serial Out ADC	24-SOIC	8.75	7.88	6.99
TLC2578IPW	296-10258-5-ND	12-Bit, 200ksps, 8-Ch. Serial Out ADC	24-TSSOP	8.75	7.88	6.99
TLC3541ID	296-12498-5-ND	5V, Low Power, 14-Bit, 200KSPS Serial ADC w/Auto Power Down	8-SOIC	8.98	7.19	6.07
TLC3541IDGK	296-13505-5-ND	5V, Low Power, 14-Bit, 200KSPS Serial ADC w/Auto Power Down	8-MSOP	8.98	7.19	6.07
TLC3545IDGK	296-13506-5-ND	5V, Low Power, 14-Bit, 200KSPS Serial ADC w/Auto Power Down	8-MSOP	8.98	7.19	6.07

(Continued)

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TEXAS INSTRUMENTS DATA CONVERSION *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLC3544IDW	296-10288-5-ND	14-Bit, 200ksps, 4-Ch. Unipolar ADC	20-SOIC	10.71	9.65	8.56
TLC3544IPW	296-10289-5-ND	14-Bit, 200ksps, 4-Ch. Unipolar ADC	20-TSSOP	10.71	9.65	8.56
TLC3545ID	296-12499-5-ND	14-Bit, 5V, 200ksps, Low Power Serial ADC	8-SOIC	8.98	7.19	6.07
TLC3548IDW	296-10290-5-ND	14-Bit, 200ksps, 8-Ch. Unipolar ADC	24-SOIC	10.30	9.27	8.22
TLC3548IPW	296-10291-5-ND	14-Bit, 200ksps, 8-Ch. Unipolar ADC	20-TSSOP	10.30	9.27	8.22
TLC3574IDW	296-10296-5-ND	14-Bit, 200ksps, 4-Ch. LP ADC	20-SOP	10.30	9.27	8.22
TLC3574IPW	296-10297-5-ND	14-Bit, 200ksps, 4-Ch. LP ADC	20-TSSOP	10.30	9.27	8.22
TLC3578IDW	296-10298-5-ND	14-Bit, 200ksps, 8-Ch. LP ADC	24-SOIC	13.06	11.76	10.43
TLC3578IPW	296-10299-5-ND	14-Bit, 200ksps, 8-Ch. LP ADC	24-TSSOP	13.06	11.76	10.43
TLC4541ID	296-12500-5-ND	16-Bit, 5V, 200ksps, Low Power Serial ADC	8-SOIC	10.30	9.27	8.22
TLC4541IDGK	296-13825-5-ND	16-Bit, 5V, 200ksps, Low Power Serial ADC *NEW!*	8-SOIC	10.30	9.27	8.22
TLC4545ID	296-12501-5-ND	16-Bit, 5V, 200ksps, Low Power Serial ADC	8-SOIC	10.30	9.27	8.22
TLC4545IDGK	296-12746-5-ND	16-Bit, 5V, 200ksps, Low Power Serial ADC	8-MSOP	10.30	9.27	8.22
TLC5510AINS	296-2938-5-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-SOP	4.43	3.55	2.76
TLC5510INS	296-2939-5-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-SOP	4.43	3.55	2.76
TLC5510INSR	296-2939-1-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-SOP	4.43	3.55	2.76
TLC5510INSR	296-2939-2-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-SOP	5024.00/2,000		
TLC5510IPW	296-2183-5-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-TSSOP	4.43	3.55	2.76
TLC5540CNSR	296-10336-1-ND	8-Bit, 40Msps, 1-Channel 5.0V High Speed Serial ADC	24-SOP	4.52	3.62	2.82
TLC5540CNSR	296-10336-2-ND	8-Bit, 40Msps, 1-Channel 5.0V High Speed Serial ADC	24-SOP	5126.00/2,000		
TLC5540INSR	296-10338-1-ND	8-Bit, 40Msps, 1-Channel 5.0V High Speed Serial ADC	24-SOP	4.86	3.89	3.03
TLC5540INSR	296-10338-2-ND	8-Bit, 40Msps, 1-Channel 5.0V High Speed Serial ADC	24-SOP	5508.00/2,000		
TLC5540IPW	296-2184-5-ND	8-Bit, 40Msps 1-Channel 5.0V High Speed Serial ADC	24-TSSOP	4.86	3.89	3.03
TLC7135CDW	296-2185-5-ND	4.5-Digit, .003Msps 1-Ch. ±5V ADC	28-SOIC	3.74	2.99	2.33
TLC7135CN	296-10350-5-ND	4.5-Digit, .003ksps, 1-Ch. Differential Input ADC	28-Dip	3.74	2.99	2.33
TLV0831CD	296-2944-5-ND	8-Bit, 49ksps, 1-Ch. 3.3V Serial ADC	8-SOIC	2.61	2.09	1.63
TLV0831CP	296-2187-5-ND	8-Bit, 49ksps, 1-Ch. 3.3V Serial ADC	8-Dip	2.61	2.09	1.63
TLV0831ID	296-2945-5-ND	8-Bit, 49ksps, 1-Ch. 3.3V Serial ADC	8-SOIC	2.81	2.25	1.75
TLV0831IP	296-2946-5-ND	8-Bit, 49ksps, 1-Ch. 3.3V Serial ADC	8-Dip	2.81	2.25	1.75
TLV0832CD	296-2947-5-ND	8-Bit, 44.7ksps, 2-Ch. 3.3V Serial ADC	8-SOIC	2.61	2.09	1.63
TLV0832CP	296-2948-5-ND	8-Bit, 44.7ksps, 2-Ch. 3.3V Serial ADC	8-Dip	2.61	2.09	1.63
TLV0832ID	296-2188-5-ND	8-Bit, 44.7ksps, 2-Ch. 3.3V Serial ADC	8-SOIC	2.81	2.25	1.75
TLV0832IP	296-2949-5-ND	8-Bit, 44.7ksps, 2-Ch. 3.3V Serial ADC	8-Dip	2.81	2.25	1.75
TLV0834CD	296-2189-5-ND	8-Bit, 41ksps, 4-Ch. 3.3V Serial ADC	14-SOP	2.72	2.18	1.70
TLV0834ID	296-2950-5-ND	8-Bit, 41ksps, 4-Ch. 3.3V Serial ADC	14-SOIC	2.93	2.34	1.82
TLV0834IN	296-2951-5-ND	8-Bit, 41ksps, 4-Ch. 3.3V Serial ADC	14-Dip	2.93	2.34	1.82
TLV0834IPW	296-13859-5-ND	8-Bit, 41ksps, 4-Ch. 3V, Serial ADC *NEW!*	16-TSSOP	2.93	2.34	1.82
TLV0838CDW	296-2952-5-ND	8-Bit, 37.9ksps, 8-Ch. 3.3V Serial ADC	20-SOIC	2.72	2.18	1.70
TLV0838IDW	296-2190-5-ND	8-Bit, 37.9ksps, 8-Ch. 3.3V Serial ADC	20-SOP	2.93	2.34	1.82
TLV0838IN	296-2953-5-ND	8-Bit, 37.9ksps, 8-Ch. 3.3V Serial ADC	20-Dip	2.93	2.34	1.82
TLV0838IPW	296-2954-5-ND	8-Bit, 37.9ksps, 8-Ch. 3.3V Serial ADC	20-TSSOP	2.93	2.34	1.82
TLV571IDW	296-2207-5-ND	8-Bit, 1.25Msps 1-Channel 2.7-5.5V Parallel ADC	24-SOIC	4.73	3.78	2.94
TLV571IPW	296-2988-5-ND	8-Bit, 1.25Msps 1-Channel 2.7-5.5V Parallel ADC	24-TSSOP	4.73	3.78	2.94
TLV1504ID	296-2191-5-ND	10-Bit, 200ksps, 4-Channel 2.7-5.5V Serial ADC	16-SOIC	5.36	4.29	3.34
TLV1504IPW	296-2955-5-ND	10-Bit, 200ksps, 4-Channel 2.7-5.5V Serial ADC	16-TSSOP	5.36	4.29	3.34
TLV1508IDW	296-2192-5-ND	10-Bit, 200ksps, 4-Channel 2.7-5.5V Serial ADC	20-SOIC	5.72	4.58	3.87
TLV1508IPW	296-2956-5-ND	10-Bit, 200ksps, 4-Channel 2.7-5.5V Serial ADC	20-TSSOP	5.72	4.58	3.87
TLV1543CDB	296-2958-5-ND	10-Bit, 200ksps, 11-Channel 3.3V Serial ADC	20-SOP	4.05	3.24	2.52
TLV1543CDW	296-1878-5-ND	10-Bit, 200ksps, 11-Channel 3.3V Serial ADC	20-SOP	4.05	3.24	2.52
TLV1543CN	296-2957-5-ND	10-Bit, 200ksps, 11-Channel 3.3V Serial ADC	20-Dip	4.28	3.42	2.66
TLV1543IDB	296-2959-5-ND	10-Bit, 200ksps, 11-Channel 3.3V Serial ADC	20-SSOP	4.37	3.50	2.72
TLV1544CD	296-2960-5-ND	10-Bit, 85ksps, 4-Channel 2.7-5.5V Serial ADC	16-SOIC	3.96	3.17	2.47
TLV1544CPW	296-2193-5-ND	10-Bit, 85ksps, 4-Channel 2.7-5.5V Serial ADC	16-TSSOP	3.96	3.17	2.47
TLV1544ID	296-2961-5-ND	10-Bit, 85ksps, 4-Channel 2.7-5.5V Serial ADC	16-SOIC	4.25	3.41	2.65
TLV1548IDB	296-2962-5-ND	10-Bit, 85ksps, 8-Channel 2.7-5.5V Serial ADC	20-SSOP	5.00	4.00	3.11
TLV1549CD	296-2963-5-ND	10-Bit, 38ksps, 1-Ch. 3.3V Serial ADC	8-SOIC	3.67	2.94	2.29
TLV1549CP	296-2964-5-ND	10-Bit, 38ksps, 1-Ch. 3.3V Serial ADC	8-Dip	3.87	3.10	2.41
TLV1549ID	296-2194-5-ND	10-Bit, 38ksps, 1-Ch. 3.3V Serial ADC	8-SOIC	3.96	3.17	2.47
TLV1549IP	296-2965-5-ND	10-Bit, 38ksps, 1-Ch. 3.3V Serial ADC	8-Dip	4.16	3.33	2.59
TLV1562CDW	296-2195-5-ND	10-Bit, 2Msps 4-Channel 2.7-5.5V Parallel ADC	28-SOIC	7.44	5.96	5.03
TLV1562CPW	296-2966-5-ND	10-Bit, 2Msps 4-Channel 2.7-5.5V Parallel ADC	28-TSSOP	7.44	5.96	5.03
TLV1562IDW	296-1879-5-ND	10-Bit, 2Msps 4-Channel 2.7-5.5V Parallel ADC	28-SOIC	8.00	6.40	5.40
TLV1562IPW	296-1880-5-ND	10-Bit, 2Msps 4-Channel 2.7-5.5V Parallel ADC	28-TSSOP	8.00	6.40	5.40
TLV1570CDW	296-2196-5-ND	10-Bit, 1.25Msps 8-Channel 2.7-5.5V Serial ADC	20-SOIC	6.80	5.44	4.59
TLV1570CPW	296-2967-5-ND	10-Bit, 1.25Msps 8-Channel 2.7-5.5V Serial ADC	20-TSSOP	6.80	5.44	4.59
TLV1570IDW	296-1881-5-ND	10-Bit, 1.25Msps 8-Channel 2.7-5.5V Serial ADC	20-SOIC	7.32	5.86	4.95
TLV1570IPW	296-1882-5-ND	10-Bit, 1.25Msps 8-Channel 2.7-5.5V Serial ADC	20-TSSOP	7.32	5.86	4.95
TLV1571CDW	296-2197-5-ND	10-Bit, 1.25Msps 1-Channel 2.7-5.5V Parallel ADC	24-SOIC	6.60	5.28	4.46
TLV1571IDW	296-2968-5-ND	10-Bit, 1.25Msps 1-Channel 2.7-5.5V Parallel ADC	24-SOIC	7.08	5.67	4.78
TLV1571IPW	296-2969-5-ND	10-Bit, 1.25Msps 1-Channel 2.7-5.5V Parallel ADC	24-TSSOP	7.08	5.67	4.78
TLV1572CD	296-2970-5-ND	10-Bit, 1.25Msps 1-Channel 2.7-5.5V Serial ADC	8-SOIC	5.92	4.74	4.00
TLV1572ID	296-1883-5-ND	10-Bit, 1.25Msps 1-Channel 2.7-5.5V Serial ADC	8-SOIC	6.36	5.09	4.30
TLV1578CDA	296-2198-5-ND	10-Bit, 1.25Msps 8-Channel 2.7-5.5V Parallel ADC	32-SOP	6.86	5.49	4.64
TLV1578IDA	296-2971-5-ND	10-Bit, 1.25Msps 8-Channel 2.7-5.5V Parallel ADC	32-TSSOP	7.38	5.91	4.99
TLV2541CDGK	296-2199-5-ND	12-Bit, 140/200ksps, 2-Channel 2.7-5.5V Serial ADC	8-MSOP	6.90	5.52	4.66
TLV2541ID	296-2972-5-ND	12-Bit, 140/200ksps, 2-Channel 2.7-5.5V Serial ADC	8-SOIC	7.42	5.94	5.01
TLV2541IDGK	296-2973-5-ND	12-Bit, 140/200ksps, Single-Channel 2.7-5.5V Serial ADC	8MSOP	7.42	5.94	5.01
TLV2542CDGK	296-2200-5-ND	12-Bit, 140/200ksps, 2-Channel 2.7-5.5V Serial ADC	8-MSOP	6.90	5.52	4.66
TLV2542ID	296-2974-5-ND	12-Bit, 140/200ksps, 2-Channel 2.7-5.5V Serial ADC	8-SOIC	7.42	5.94	5.01
TLV2542IDGK	296-2975-5-ND	12-Bit, 140/200ksps, 2-Channel 2.7-5.5V Serial ADC	8-MSOP	7.42	5.94	5.01
TLV2543CDBR	296-10643-1-ND	12-Bit, 66ksps, 11-Ch. 3.3V Serial Out ADC	20-SSOP	8.04	6.44	5.43
TLV2543CDBR	296-10643-2-ND	12-Bit, 66ksps, 11-Ch. 3.3V Serial Out ADC	20-SSOP	10050.00/2,000		
TLV2543CDW	296-2977-5-ND	12-Bit, 66ksps, 11-Ch. 3.3V Serial ADC	20-SOIC	8.00	6.40	5.40
TLV2543CN	296-2978-5-ND	12-Bit, 66ksps, 11-Ch. 3.3V Serial ADC	20-Dip	8.00	6.40	5.40
TLV2543IDB	296-2201-5-ND	12-Bit, 66ksps, 11-Ch. 3.3V Serial ADC	20-SSOP	8.60	6.88	5.81
TLV2543IDW	296-2979-5-ND	12-Bit, 66ksps, 11-Ch. 3.3V Serial ADC	20-SOIC	8.60	6.88	5.81
TLV2543IN	296-2980-5-ND	12-Bit, 66ksps, 11-Ch. 3.3V Serial ADC	20-Dip	8.60	6.88	5.81
TLV2544CD	296-2202-5-ND	12-Bit, 200ksps, 4-Channel 2.7-5.5V Serial ADC	16-SOIC	7.58	6.07	5.12
TLV2544ID	296-2981-5-ND	12-Bit, 200ksps, 4-Channel 2.7-5.5V Serial ADC	16-SOIC	8.16	6.53	5.51
TLV2544IPW	296-2982-5-ND	12-Bit, 200ksps, 4-Channel 2.7-5.5V Serial ADC	16-TSSOP	8.16	6.53	5.51
TLV2544QD	296-13365-5-ND	2.7V to 5.5V, 12-Bit, 200ksps, 4-Channel Low Power, Serial ADC with Autopower-Down	16-SOIC	8.86	7.09	5.99
TLV2545CDGK	296-2203-5-ND	12-Bit, 140/200ksps, 2-Channel 2.7-5.5V Serial ADC	8-MSOP	6.90	5.52	4.66
TLV2545ID	296-2984-5-ND	12-Bit, 140/200ksps, 2-Channel 2.7-5.5V Serial ADC	8-SOIC	7.44	5.96	5.03
TLV2545IDGK	296-2985-5-ND	12-Bit, 140/200ksps, 2-Channel 2.7-5.5V Serial ADC	8-MSOP	7.42	5.94	5.01
TLV2548CDW	296-2204-5-ND	2.7 to 5.5V, 12-Bit, 200ksps, 8-Channel LP, Serial ADC w/Autopower-Down	20-SOIC	8.72	6.98	5.89
TLV2548IDW	296-2986-5-ND	2.7 to 5.5V, 12-Bit, 200ksps, 8-Channel LP, Serial ADC w/Autopower-Down	20-SOIC	9.38	7.51	6.34
TLV2548IPW	296-2987-5-ND	2.7 to 5.5V, 12-Bit, 200ksps, 8-Channel LP, Serial ADC w/Autopower-Down	20-TSSOP	9.38	7.51	6.34
TLV2548QDW	296-13366-5-ND	2.7 to 5.5V, 12-Bit, 200ksps, 8-Channel Low Power, Serial ADC with Autopower-Down	20-SOIC	9.12	7.30	6.16
TLV2553IDW	296-12227-5-ND	12-Bit, Low Power, Serial A/D Converter	20-SOIC	7.66	6.13	5.18
TLV2556IDW	296-12502-5-ND	12-Bit, 11 Channel Low Power Serial ADC with Internal Reference	20-SOIC	6.74	5.40	4.55
TLV2556IPW	296-13000-5-ND	12-Bit, 11 Channel Low Power Serial ADC with Internal Reference	20-TSSOP	6.74	5.40	4.55
TLV5535IPW	296-2206-5-ND	8-Bit, 35Msps 1-Ch. 3.3V LP ADC	28-TSSOP	4.75	3.80	2.96
TLV5580CDW	296-1912-5-ND	8-Bit, 80Msps 1-Ch. 3.3V LP ADC	28-SOIC	6.62	5.30	4.47
TLV5580CPW	296-1913-5-ND	8-Bit, 80Msps 1-Ch. 3.3V LP ADC	28-TSSOP	6.62	5.30	4.47
TLV5580IDW	296-1914-5-ND	8-Bit, 80Msps 1-Ch. 3.3V LP ADC	28-SOIC	7.02	5.62	4.74
TLV5580IPW	296-1915-5-ND	8-Bit, 80Msps 1-Ch. 3.3V LP ADC	28-TSSOP	7.02	5.62	4.74
TLV5734PAG	296-12955-5-ND	8-Bit, 30Msps 3-Ch. 3.3V, Very Low Power ADC	64-TQFP	8.56	6.85	5.78
TSC2003IPW	296-14330-5-ND	I2C Touch Screen Controller *NEW!*	16-TSSOP	4.61	3.69	2.87
TSC2046IGQCR	296-13811-1-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	4.01	3.21	2.50
TSC2046IGQCR	296-13811-2-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	5607.50/2,500		
TSC2200IPW	TSC2200IPW-ND	Programmable Touch Screen Controller with 12-Bit, 125KHz ADC and Keypad Interface	28-TSSOP	4.93	3.95	3.07
TSC2300IPAG	296-14060-ND	Programmable Touch Screen Controller with Audio Codec *NEW!*	64-TQFP	8.00	6.40	5.40
VSP1021PFB	296-12700-ND	10-Bit, Low Power Analog-Signal Processor/Digitizer	48-TQFP	5.70	4.56	3.85

Audio Analog-to-Digital Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
DF1706E	DF1706E-ND	Digital Filter for PCM1704	28-SOP	15.80	14.75	13.69
DF1760P	DF1760P-ND	Digital Filter for PCM1760	28-Dip	19.95	18.62	17.29
DF1760U	DF1760U-ND	Digital Filter for PCM1760	28-SOIC	19.95	18.62	17.29
PCM78P	PCM78P-ND	16-Bit, Audio ADC, -82dB THD	28-Dip	44.33	41.37	38.42
PCM1760P	PCM1760P-ND	Dual 20-Bit ADC	28-Dip	25.91	24.18	22.46
PCM1760U	PCM1760U-ND	Dual 20-Bit ADC	28-SOIC	25.91	24.18	22.46
PCM1800E	PCM1800E-ND	Single-Ended 20-Bit, Stereo ADC	24-SSOP	5.24	4.20	3.27
PCM1801U	PCM1801U-ND	Stereo Audio ADC	14-SOIC	4.86	3.89	3.03
PCM1802DB	PCM1802DB-ND	24-Bit, 96kHz Delta-Sigma Stereo ADC	20-SSOP	5.98	4.79	4.04

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCM1804DB	PCM1804DB-ND	24-Bit, 192kHz Delta-Sigma Stereo ADC	28-SSOP	9.40	7.52	6.35

DSP Compatible Analog-to-Digital Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AFE1302Y/250	AFE1302YCT-ND	Analog ADSL Front End	48-QFP	15.14	14.13	13.12
AFE1302Y/250	AFE1302YTR-ND	Analog ADSL Front End	48-QFP	3216.25/250		

Digital-to-Analog Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC712P	DAC712P-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip .3	17.85	16.66	15.47
DAC712PB	DAC712PB-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	23.39	21.83	20.27
DAC712PK	DAC712PK-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	21.60	20.16	18.72
DAC712U	DAC712U-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	19.83	17.85	15.83
DAC712UB	296-14008-5-ND	16-Bit, DAC (16-Bit Bus Interface) *NEW!*	28-SOIC	20.72	19.34	17.96
DAC714P	DAC714P-ND	16-Bit, DAC (Serial Data Interface)	16-Dip	20.54	19.17	17.80
DAC714U	DAC714U-ND	16-Bit, DAC (Serial Data Interface)	16-SOIC	17.85	16.66	15.47
DAC715P	DAC715P-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	20.54	19.17	17.80
DAC715U	DAC715U-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	19.83	17.85	15.83
DAC715UB	DAC715UB-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	20.72	19.34	17.96
DAC716P	DAC716P-ND	16-Bit, D/A Converter	16-Dip	20.54	19.17	17.80
DAC716PB	DAC716PB-ND	16-Bit, D/A Converter	16-Dip	23.39	21.83	20.27
DAC716PK	DAC716PK-ND	16-Bit, D/A Converter	16-Dip	21.78	20.33	18.88
DAC716U	DAC716U-ND	16-Bit, D/A Converter	16-SOIC	17.85	16.66	15.47
DAC716UB	DAC716UB-ND	16-Bit, D/A Converter	16-SOIC	20.72	19.34	17.96
DAC716UK	DAC716UK-ND	16-Bit, D/A Converter	16-SOIC	19.11	17.84	16.57
DAC725JP	DAC725JP-ND	Dual 16-Bit, D/A Converter	28-Dip	71.78	66.99	62.21
DAC725KP	DAC725KP-ND	Dual 16-Bit, D/A Converter	28-Dip	85.52	79.82	74.12
DAC811JU	DAC811JU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	15.56	14.52	13.49
DAC813AU	DAC813AU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	19.25	17.97	16.68
DAC813JP	DAC813JP-ND	MPU-Compatible 12-Bit, DAC	28-Dip	18.87	17.62	16.36
DAC813JU	DAC813JU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	15.62	14.58	13.54
DAC900E	DAC900E-ND	10-Bit, 165Msps DAC	28-TSSOP	8.08	6.47	5.46
DAC900U	DAC900U-ND	10-Bit, 165Msps Current Out DAC	28-SOIC	8.08	6.47	5.46
DAC902E	DAC902E-ND	12-Bit, 165Msps DAC	28-TSSOP	9.90	8.91	7.91
DAC902U	DAC902U-ND	12-Bit, 165Msps Current Out DAC	28-SOIC	9.90	8.91	7.91
DAC904E	DAC904E-ND	14-Bit, 165Msps DAC	28-TSSOP	12.66	11.40	10.11
DAC904U	DAC904U-ND	14-Bit, 165Msps Current Out DAC	28-SOIC	12.66	11.40	10.11
DAC908E	DAC908E-ND	8-Bit, 165Msps DAC	28-TSSOP	5.70	4.56	3.85
DAC908U	DAC908U-ND	8-Bit, 165Msps Current Out DAC	28-SOIC	5.70	4.56	3.85
DAC1220E	DAC1220E-ND	20-Bit, Mono, LP, Delta-Sigma DAC	16-SSOP	10.01	9.02	8.00
DAC1221E	DAC1221E-ND	16-Bit, DAC	16-SSOP	9.52	7.62	6.43
DAC2900Y/250	DAC2900Y/250CT-ND	10-Bit, 125Msps Dual DAC	48-TQFP	14.54	13.10	11.62
DAC2900Y/250	DAC2900Y/250TR-ND	10-Bit, 125Msps Dual DAC	48-TQFP	2782.75/250		
DAC2902Y/250	DAC2902Y/250CT-ND	12-Bit, 125Msps Dual DAC	48-TQFP	21.96	20.50	19.04
DAC2902Y/250	DAC2902Y/250TR-ND	12-Bit, 125Msps Dual DAC	48-TQFP	4666.50/250		
DAC2904Y/250	296-13071-1-ND	Dual, 14-Bit 125MSPS DAC	48-TQFP	28.77	26.86	24.94
DAC2904Y/250	296-13071-2-ND	Dual, 14-Bit 125MSPS DAC	48-TQFP	6113.75/250		
DAC5675IPHP	296-13032-5-ND	14-Bit, 400MSPS DAC	48-HTQFP	42.39	39.57	36.74
DAC7512E/250	DAC7512ECT-ND	12-Bit, Serial In, LP R/R DAC	8-MSOP	3.04	2.43	1.89
DAC7512E/250	DAC7512ETR-ND	12-Bit, Serial In, LP R/R DAC	8-MSOP	449.00/250		
DAC7512N/250	DAC7512NCT-ND	12-Bit, Serial In, LP R/R DAC	SOT-23-6	2.93	2.34	1.82
DAC7512N/250	DAC7512NTR-ND	12-Bit, Serial In, LP R/R DAC	SOT-23-6	432.25/250		
DAC7513E/250	DAC7513ECT-ND	12-Bit, Serial In, LP R/R DAC	8-MSOP	3.04	2.43	1.89
DAC7513E/250	DAC7513ETR-ND	12-Bit, Serial In, LP R/R DAC	8-MSOP	449.00/250		
DAC7513N/250	DAC7513NCT-ND	12-Bit, Serial In, LP R/R DAC	SOT-23-8	2.93	2.34	1.82
DAC7513N/250	DAC7513NTR-ND	12-Bit, Serial In, LP R/R DAC	SOT-23-8	432.25/250		
DAC7541AJP	DAC7541AJP-ND	Quad 12-Bit, CMOS DAC	18-Dip	11.15	10.04	8.90
DAC7541AJU	DAC7541AJU-ND	Quad 12-Bit, CMOS DAC	18-SOIC	10.13	9.12	8.09
DAC7541AKP	DAC7541AKP-ND	Quad 12-Bit, CMOS DAC	18-Dip	12.76	11.49	10.19
DAC7541AKU	DAC7541AKU-ND	Quad 12-Bit, CMOS DAC	18-SOIC	11.75	10.58	9.17
DAC7545GLU	DAC7545GLU-ND	12-Bit, CMOS Multiplying DAC (MPU Compatible)	20-SOIC	17.19	16.05	14.90
DAC7545JU	DAC7545JU-ND	12-Bit, CMOS Multiplying DAC (MPU Compatible)	20-SOIC	9.50	7.60	6.42
DAC7571IDBVT	296-14345-1-ND	12-Bit, I2C Voltage Output DAC *NEW!*	SOT23-6	2.93	2.34	1.82
DAC7571IDBVT	296-14345-2-ND	12-Bit, I2C Voltage Output DAC *NEW!*	SOT23-6	432.25/250		
DAC7611P	DAC7611P-ND	12-Bit, Serial General Purpose DAC	8-Dip	5.11	4.09	3.18
DAC7611PB	DAC7611PB-ND	12-Bit, Serial General Purpose DAC	8-Dip	5.36	4.29	3.62
DAC7611U	DAC7611U-ND	12-Bit, Serial General Purpose DAC	8-SOIC	5.20	4.16	3.24
DAC7611UB	DAC7611UB-ND	12-Bit, Serial General Purpose DAC	8-SOIC	5.36	4.29	3.62
DAC7612U	DAC7612U-ND	12-Bit, Dual/Serial GP DAC	8-SOIC	5.49	4.40	3.42
DAC7612UB	DAC7612UB-ND	12-Bit, Dual/Serial GP DAC	8-SOIC	5.66	4.53	3.83
DAC7613E	DAC7613E-ND	12-Bit, Volt. Out Mono Parallel DAC ±2LSB	24-SSOP	4.61	3.69	2.87
DAC7613EB	DAC7613EB-ND	12-Bit, Volt. Out Mono Parallel DAC ±1LSB	24-SSOP	5.36	4.29	3.34
DAC7614E	DAC7614E-ND	Quad Serial-In 12-Bit DAC	20-QSOP	10.10	9.09	8.06
DAC7614EB	DAC7614EB-ND	Quad Serial-In 12-Bit DAC	20-QSOP	10.81	9.74	8.64
DAC7614P	DAC7614P-ND	Quad Serial-In 12-Bit DAC, ±2 LSB	16-Dip	14.54	13.10	11.62
DAC7614PB	DAC7614PB-ND	Quad Serial-In 12-Bit DAC, ±1 LSB	16-Dip	15.34	13.82	12.25
DAC7614U	DAC7614U-ND	Quad Serial-In 12-Bit DAC, ±2 LSB	16-SOIC	10.10	9.09	8.06
DAC7614UB	DAC7614UB-ND	Quad Serial-In 12-Bit DAC, ±1 LSB	16-SOIC	10.81	9.74	8.44
DAC7615E	DAC7615E-ND	Quad Serial-In 12-Bit DAC	20-QSOP	10.10	9.09	8.06
DAC7615P	DAC7615P-ND	Quad Serial-In 12-Bit, General Purpose D/A, ±2 LSB	16-Dip	14.54	13.10	11.62
DAC7615PB	DAC7615PB-ND	Quad Serial-In 12-Bit, General Purpose D/A, ±1 LSB	16-Dip	15.34	13.82	12.25
DAC7615U	DAC7615U-ND	Quad Serial-In 12-Bit, General Purpose D/A, ±2 LSB	16-SOIC	10.10	9.09	8.06
DAC7615UB	DAC7615UB-ND	Quad Serial-In 12-Bit, General Purpose D/A, ±1 LSB	16-SOIC	10.81	9.74	8.64
DAC7616EB	DAC7616EB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	20-SSOP	9.73	8.76	7.77
DAC7616UB	DAC7616UB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	16-SOP	9.73	8.76	7.77
DAC7617EB	DAC7617EB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	20-SSOP	9.73	8.76	7.77
DAC7617UB	DAC7617UB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	16-SOP	9.73	8.76	7.77
DAC7621E	DAC7621E-ND	12-Bit, Parallel In DAC, ±2LSB	20-SSOP	5.60	4.49	3.49
DAC7621EB	DAC7621EB-ND	12-Bit, Parallel In DAC, ±1LSB	20-SSOP	5.78	4.63	3.91
DAC7624P	DAC7624P-ND	12-Bit, Quad DAC, ±2LSB, Mid-Scale Reset	28-Dip	14.66	13.20	11.71
DAC7624PB	DAC7624PB-ND	12-Bit, Quad DAC, ±1LSB, Mid-Scale Reset	28-Dip	15.68	14.12	12.52
DAC7624U	DAC7624U-ND	12-Bit, Quad DAC, ±2LSB, Mid-Scale Reset	28-SOIC	15.39	13.86	12.29
DAC7624UB	DAC7624UB-ND	12-Bit, Quad DAC, ±1LSB, Mid-Scale Reset	28-SOIC	16.41	14.78	13.11
DAC7625P	DAC7625P-ND	12-Bit, Quad DAC, ±2LSB, Zero-Scale Reset	28-Dip	14.66	13.20	11.71
DAC7625PB	DAC7625PB-ND	12-Bit, Quad DAC, ±1LSB, Zero-Scale Reset	28-Dip	15.68	14.12	12.52
DAC7625U	DAC7625U-ND	12-Bit, Quad DAC, ±2LSB, Zero-Scale Reset	28-SOIC	15.39	13.86	12.29
DAC7625UB	DAC7625UB-ND	12-Bit, Quad DAC, ±1LSB, Zero-Scale Reset	28-SOIC	16.41	14.78	13.11
DAC7631E	DAC7631E-ND	16-Bit, Low Power (2.5mW) DAC	20-SSOP	8.81	7.94	7.04
DAC7631EB	DAC7631EB-ND	16-Bit, Low Power (2.5mW) DAC	20-SSOP	10.41	9.38	8.32
DAC7632VFR	296-12630-1-ND	16-Bit, Dual D/A Converter	32-LQFP	15.73	14.16	12.56
DAC7632VFR	296-12630-2-ND	16-Bit, Dual D/A Converter	32-LQFP	11658.00/1,000		
DAC7634E	DAC7634E-ND	16-Bit, Quad D/A Converter	48-SSOP	27.05	25.25	23.44
DAC7634EB	DAC7634EB-ND	16-Bit, Quad D/A Converter	48-SSOP	31.38	29.29	27.20
DAC7641YB/250	DAC7641YBCT-ND	16-Bit, 5V, D/A Converter	32-TQFP	11.00	9.90	8.78
DAC7641YB/250	DAC7641YBTR-ND	16-Bit, 5V, D/A Converter	32-TQFP	2113.25/250		
DAC7641Y/250	DAC7641YCT-ND	16-Bit, 5V, D/A Converter	32-TQFP	9.48	8.54	7.57
DAC7641Y/250	DAC7641YTR-ND	16-Bit, 5V, D/A Converter	32-TQFP	1813.75/250		
DAC7642VFT	DAC7642VFTCT-ND	16-Bit, Dual Low Power DAC	32-LQFP	15.89	14.31	12.69
DAC7642VFT	DAC7642VFTTR-ND	16-Bit, Dual Low Power DAC	32-LQFP	3041.00/250		
DAC7643VFT	DAC7643VFTCT-ND	16-Bit, Dual Low Power DAC	32-LQFP	15.89	14.31	12.69
DAC7643VFT	DAC7643VFTTR-ND	16-Bit, Dual Low Power DAC	32-LQFP	3041.00/250		
DAC7644E	DAC7644E-ND	16-Bit, Quad/Parallel ±5V, DAC	48-SSOP	27.05	25.25	23.44
DAC7644EB	DAC7644EB-ND	16-Bit, Quad/Parallel ±5V, DAC	48-SSOP	31.38	29.29	27.20
DAC7714U	DAC7714U-ND	12-Bit, Quad, Volt. Out, Serial DAC	16-SOIC	15.51	14.48	13.45
DAC7714UB	DAC7714UB-ND	12-Bit, Quad, Volt. Out, Serial DAC	16-SOIC	17.06	15.92	14.79
DAC7715U	DAC7715U-ND	12-Bit, Quad, Volt. Out, Serial DAC	16-SOIC	15.51	14.48	13.45
DAC7715UB	DAC7715UB-ND	12-Bit, Quad, Volt. Out, Serial DAC	16-SOIC	17.06	15.92	14.79
DAC7724N	DAC7724N-ND	12-Bit, Quad Parallel DAC	28-PLCC	17.78	16.59	15.41
DAC7724NB	DAC7724NB-ND	12-Bit, Quad Parallel DAC	28-PLCC	19.02	17.76	16.49
DAC7724U	DAC7724U-ND	12-Bit, Quad Parallel DAC	28-SOIC	16.88	15.75	14.63
DAC7724UB	DAC7724UB-ND	12-Bit, Quad Parallel DAC	28-SOIC	18.66	17.42	16.18
DAC7725N	DAC7725N-ND	12-Bit, Quad Parallel DAC	28-PLCC	17.78	16.59	15.41
DAC7725NB	DAC7725NB-ND	12-Bit, Quad Parallel DAC	28-PLCC	19.02	17.76	16.49
DAC7725UB	DAC7725UB-ND	12-Bit, Quad Parallel DAC	28-SOIC	18.66	17.42	16.18
DAC7731EC	DAC7731EC-ND	16-Bit, Low Power DAC	24-SSOP	15.93	14.34	12.72
DAC7734E	DAC7734E-ND	Quad Serial 16-Bit, Volt. Out DAC	48-SSOP	42.66	39.82	36.98
DAC7734EB	DAC7734EB-ND	Quad Serial 16-Bit, Volt. Out DAC	48-SSOP	46.94	43.81	40.68
DAC7734EC	DAC7734EC-ND	Quad Serial 16-Bit, Volt. Out DAC	48-SSOP	55.04	51.37	47.70
DAC7741Y/250	296-14009-1-ND	16-Bit, Single Channel DAC *NEW!*	48-LQFP	13.14	11.84	10.50
DAC7741Y/250	296-14009-2-ND	16-Bit, Single Channel DAC *NEW!*	48-LQFP	2515.00/250		
DAC7741YB/250	296-12702-1-ND	16-Bit, Single Channel DAC	48-LQFP	15.24	13.73	12.17
DAC7741YB/250	296-12702-2-ND	16-Bit, Single Channel DAC	48-LQFP	2916.50/250		
DAC7741YC/250	DAC7741YC/250CT-ND	16-Bit, Low Power DAC	48-LQFP	15.26	14.24	13.23
DAC7741YC/250	DAC7741YC/250TR-ND	16-Bit, Low Power DAC	48-LQFP	3241.75/250		
DAC7742Y/250	296-14169-1-ND	16-Bit, Mono Parallel DAC *NEW!*	48-LQFP	13.14	11.84	10.50
DAC7742Y/250	296-14169-2-ND	16-Bit, Mono Parallel DAC *NEW!*	48-LQFP	2515.00/250		
DAC7742YB/250	296-14167-1-ND	16-Bit, Mono Parallel DAC *NEW!*	48-LQFP	15.24	13.73	12.17
DAC7742YB/250	296-14167-2-ND	16-Bit, Mono Parallel DAC *NEW!*	48-LQFP	2916.50/250		
DAC7742YC/250	296-14168-1-ND	16-Bit, Mono Parallel DAC *NEW!*	48-LQFP	15.26	14.24	13.23
DAC7742YC/250	296-14168-2-ND	16-Bit, Mono Parallel DAC *NEW!*	48-LQFP	3241.75/250		
DAC7744E	DAC7744E-ND	Quad Parallel 16-Bit DAC	48-SSOP	42.66	39.82	36.98
DAC7744EB	DAC7744EB-ND	Quad Parallel 16-Bit DAC	48-SSOP	46.94	43.81	40.68
DAC7744EC	DAC7744EC-ND	Quad Parallel 16-Bit DAC	48-SSOP	55.04	51.37	47.70
DAC7800LU	296-12976-5-ND	Dual 12-Bit, Monolithic DAC	16-SOIC	28.77	26.86	24.94
DAC7801KP	DAC7801KP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	22.35	20.86	19.37
DAC7801LP	DAC7801LP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	27.23	25.41	23.60
DAC7802KP	DAC7802KP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	18.66	17.42	16.18
DAC7802KU	296-12978-5-ND	Dual 12-Bit, Monolithic DAC	24-SOIC	17.55	16.38	15.21
DAC7802LP	DAC7802LP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	31.62	29.52	27.41
DAC7802LU	296-12980-5-ND	Dual 12-Bit, Monolithic DAC	24-SOIC	28.74	26.83	24.91
DAC8043UC	DAC8043UC-ND	Serial-In 12-Bit DAC	8-SOIC	15.54	14.00	12.41
DAC8043U	DAC8043U-ND	Serial-In 12-Bit DAC	8-SOIC	11.93	10.74	9.53
DAC8501E/250	DAC8501E/250CT-ND	16-Bit, Low Power DAC	8-TSSOP	5.38	4.31	3.64
DAC8501E/250	DAC8501E/250TR-ND	16-Bit, Low Power DAC	8-TSSOP	874.25/250		
DAC8531E/250	DAC8531E/250CT-ND	16-Bit, Low Power DAC	8-TSSOP	5.38	4.31	3.64
DAC8531E/250	DAC8531E/250TR-ND	16-Bit, Low Power DAC	8-TSSOP	874.25/250		
DAC8532IDGK	DAC8532IDGK-ND	16-Bit, 2-Channel, Low Power DAC	8-MSOP	8.41	7.58	6.72
DAC8534IPW	296-13718-5-ND	Quad Channel, Low Power, 16-Bit, Serial Input DAC	16-TSSOP	15.43	13.89	12.32
DAC8541Y/250	296-12427-1-ND	16-Bit, Low Power DAC	32-TQFP	5.42	4.34	3.66
DAC8541Y/250	296-12427-2-ND	16-Bit, Low Power DAC	32-TQFP	880.75/250		
DAC8571IDGKR	296-14307-1-ND	16-Bit, Low Power I2C DAC *NEW!*	8-MSOP	5.38	4.31	3.64
DAC8571IDGKR	296-14307-2-ND	16-Bit, Low Power I2C DAC *NEW!*	8-MSOP	8340.00/2,500		
DAC8574IPW	296-14170-5-ND	16-Bit, Quad Rail-to-Rail DAC *NEW!*	16-TSSOP	15.43	13.89	12.32
PCM54HP	PCM54HP-ND	16-Bit, Monolithic DAC	28-Dip	17.85	16.66	15.47
PCM1606E	296-13111-5-ND	24-Bit, 6-Channel, Enhanced Multilevel Delta-Sigma DAC	20-SSOP	4.07	3.26	2.54
PCM1702U	PCM1702U-ND	20-Bit Advance Sign Magnitude DAC	20-SOIC	16.79	15.67	14.55
THS5641AIDW	296-2989-5-ND	8-Bit, 100Msps 3-5V Single DAC	28-SOIC	6.84	5.48	4.62
THS5651AIDW	296-2992-5-ND	10-Bit, 125Msps 3-5V Single DAC	20-SOIC	8.08	6.47	5.46
THS5651AIPW	296-2287-5-ND	10-Bit, 125Msps 3-5V Single DAC	28-TSSOP	8.08	6.47	5.46
THS5661AIDW	296-2995-5-ND	12-Bit, 125Msps 3-5V Single DAC	28-SOIC	9.90	8.91	7.91
THS5661AIPW	296-2288-5-ND	12-Bit, 125Msps 3-5V Single DAC	28-TSSOP	9.90	8.91	7.91
THS5671AIDW	296-2998-5-ND	14-Bit, 125Msps 3-5V Single DAC	28-SOIC	16.46	14.82	13.15
THS5671AIPW	296-2289-5-ND	14-Bit, 125Msps 3-5V Single DAC	28-TSSOP	16.46	14.82	13.15
THS8083A95PZP	296-13345-ND	Triple 8-Bit, 95MSPS, 3.3V Video and Graphics Digitizer with Digital PLL	100-TQFP	12.83	11.55	10.25
THS8133BCPHP	296-2999-ND	10-Bit, 80Msps 3-5V Triple Video DAC	48-HTQFP	11.76	10.59	9.39
THS8134BCPHP	296-3001-ND	8-Bit, 80Msps 3-5V Triple Video DAC	48-HTQFP	8.81	7.94	7.04
THS8135PHP	296-13049-5-ND	Triple 10-Bit Video DAC	48-HTQFP	16.63	14.97	13.28
TLC5602CDW	296-3003-5-ND	8-Bit, 30Msps 5V Single Video DAC	20-SOIC	2.86	2.29	1.78
TLC5615CD	296-3004-5-ND	10-Bit, 12.5µs 5V Single Serial DAC	8-SOIC	3.67	2.94	2.29
TLC5615CDGK	296-3005-5-ND	10-Bit, 12.5us 5V Single Serial DAC	8-TSSOP	3.67	2.94	2.29
TLC5615CP	296-3006-5-ND	10-Bit, 12.5µs 5V Single Serial DAC	8-Dip	3.67	2.94	2.29
TLC5615ID	296-3007-5-ND	10-Bit, 12.5µs 5V Single Serial DAC	8-SOIC	3.94	3.15	2.45
TLC5615IP	296-2292-5-ND	10-Bit, 12.5µs 5V Single Serial DAC	8-Dip	3.94	3.15	2.45
TLC5618AQD	296-3011-5-ND	12-Bit, 2.5µs 5V Dual Serial DAC	8-SOIC	8.82	7.06	5.96

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC5620CD	296-1861-5-ND	8-Bit, 10µs 5V Quad Serial DAC	14-SOIC	3.04	2.43	1.89
TLC5620CN	296-1862-5-ND	8-Bit, 10µs 5V Quad Serial DAC	14-Dip	3.20	2.56	1.99
TLC5620ID	296-1339-5-ND	8-Bit, 10µs 5V Quad Serial DAC	14-SOIC	3.26	2.61	2.03
TLC5620IDR	296-1339-1-ND	8-Bit, 10µs 5V Quad Serial DAC	14-SOIC	3.24	2.60	2.02
TLC5620IDR	296-1339-2-ND	8-Bit, 10µs 5V Quad Serial DAC	14-SOIC	4535.00/2,500		
TLC5620IN	296-3012-5-ND	8-Bit, 10µs 5V Quad Serial DAC	14-Dip	3.42	2.74	2.13
TLC5628CDW	296-1864-5-ND	8-Bit, 10µs 5V Octal Serial DAC	16-SOIC	4.95	3.96	3.08
TLC5628CN	296-1865-5-ND	8-Bit, 10µs 5V Octal Serial DAC	16-Dip	5.20	4.16	3.24
TLC5628IDW	296-3013-5-ND	8-Bit, 10µs 5V Octal Serial DAC	16-SOIC	5.33	4.27	3.32
TLC5628IN	296-3014-5-ND	8-Bit, 10µs 5V Octal Serial DAC	16-Dip	5.58	4.47	3.48
TLC7225CDW	296-3015-5-ND	8-Bit, 5µs 5-15V Quad Parallel DAC	24-SOIC	4.37	3.50	2.72
TLC7225IDW	296-3016-5-ND	8-Bit, 5µs 5-15V Quad Parallel DAC	24-SOIC	4.70	3.77	2.93
TLC7226CDW	296-3017-5-ND	8-Bit, 5µs 15V Quad Parallel DAC	20-SOIC	4.19	3.35	2.61
TLC7226CN	296-3018-5-ND	8-Bit, 5µs 15V Quad Parallel DAC	20-Dip	4.41	3.53	2.75
TLC7226IDW	296-3019-5-ND	8-Bit, 5µs 15V Quad Parallel DAC	20-SOIC	4.50	3.60	2.80
TLC7226IN	296-2296-5-ND	8-Bit, 5µs 15V Quad Parallel DAC	20-Dip	4.73	3.78	2.94
TLC7524CD	296-1866-5-ND	8-Bit, 0.1µs 5-15V Single Parallel Mult. DAC	16-SOIC	2.86	2.29	1.78
TLC7524CFN	296-1867-5-ND	8-Bit, 0.1µs 5-15V Single Parallel Mult. DAC	20-PLCC	2.86	2.29	1.78
TLC7524CN	296-1868-5-ND	8-Bit, 0.1µs 5-15V Single Parallel Mult. DAC	16-Dip	3.02	2.42	1.88
TLC7524CPW	296-3020-5-ND	8-Bit, 0.1µs 5-15V Single Parallel Mult. DAC	16-TSSOP	2.86	2.29	1.78
TLC7524EN	296-1869-5-ND	8-Bit, 0.1µs 5-15V Single Parallel Mult. DAC	16-Dip	3.44	2.76	2.15
TLC7524ID	296-3021-5-ND	8-Bit, 0.1µs 5-15V Single Parallel Mult. DAC	16-SOIC	3.06	2.45	1.91
TLC7524IFN	296-3022-5-ND	8-Bit, 0.1µs 5-15V Single Parallel Mult. DAC	16-PLCC	3.06	2.45	1.91
TLC7524IN	296-3023-5-ND	8-Bit, 0.1µs 5-15V Single Parallel Mult. DAC	16-Dip	3.22	2.58	2.01
TLC7528CDW	296-1340-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-SOIC	2.99	2.40	1.87
TLC7528CDWR	296-1340-1-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-SOIC	2.99	2.40	1.87
TLC7528CDWR	296-1340-2-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-SOIC	3392.00/2,000		
TLC7528CFN	296-3024-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-PLCC	2.99	2.40	1.87
TLC7528CN	296-1871-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-Dip	2.99	2.40	1.87
TLC7528EDW	296-3025-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-SOIC	3.44	2.76	2.15
TLC7528EN	296-3026-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-Dip	3.62	2.90	2.26
TLC7528IDW	296-3027-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-SOIC	3.22	2.58	2.01
TLC7528IFN	296-3028-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-PLCC	3.22	2.58	2.01
TLC7528IN	296-3029-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-Dip	3.22	2.58	2.01
TLC7528IPW	296-3030-5-ND	8-Bit, 0.1µs 5-15V Dual Parallel Mult. DAC	20-TSSOP	3.22	2.58	2.01
TLC7628CDW	296-3031-5-ND	8-Bit, 0.1µs 11-14V Dual Parallel Mult. DAC	20-SOIC	3.22	2.58	2.01
TLC7628CN	296-3032-5-ND	8-Bit, 0.1µs 11-14V Dual Parallel Mult. DAC	20-Dip	2.84	2.27	1.77
TLV320DAC23PW	296-11658-5-ND	8 to 96kHz Stereo DSP DAC	28-TSSOP	4.07	3.26	2.54
TLV5604CD	296-2297-5-ND	10-Bit, 3µs 2.7-5.5V Quad Parallel DAC	16-SOIC	7.34	5.88	4.96
TLV5604CPW	296-3033-5-ND	10-Bit, 3µs 2.7-5.5V Quad Parallel DAC	16-TSSOP	7.34	5.88	4.96
TLV5604ID	296-1916-5-ND	10-Bit, 3µs 2.7-5.5V Quad Parallel DAC	16-SOIC	7.88	6.31	5.32
TLV5604IPW	296-1917-5-ND	10-Bit, 3µs 2.7-5.5V Quad Parallel DAC	16-TSSOP	7.88	6.31	5.32
TLV5606CD	296-2298-5-ND	10-Bit, 2 or 9µs 2.7-5.5V Single Serial DAC	8-SOIC	2.88	2.31	1.80
TLV5606ID	296-3034-5-ND	10-Bit, 2 or 9µs 2.7-5.5V Single Serial DAC	8-SOIC	3.11	2.49	1.94
TLV5606IDGK	296-3035-5-ND	10-Bit, 2 or 9µs 2.7-5.5V Single Serial DAC	8-MSOP	3.11	2.49	1.94
TLV5608IDW	296-3036-5-ND	10-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-SOIC	9.80	7.84	6.62
TLV5608IPW	296-3037-5-ND	10-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-TSSOP	9.80	7.84	6.62
TLV5610IDW	296-3038-5-ND	12-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-SOIC	14.89	13.41	11.90
TLV5610IPW	296-3039-5-ND	12-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-TSSOP	14.89	13.41	11.90
TLV5613CDW	296-2299-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-SOIC	5.12	4.10	3.46
TLV5613CPW	296-1918-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-TSSOP	5.12	4.10	3.46
TLV5613IDW	296-1919-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-SOIC	5.52	4.42	3.73
TLV5613IPW	296-1920-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-TSSOP	5.52	4.42	3.73
TLV5614CD	296-2300-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	16-SOIC	13.08	11.78	10.45
TLV5614CPW	296-3040-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	16-TSSOP	13.08	11.78	10.45
TLV5614ID	296-1921-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	16-SOIC	14.06	12.66	11.23
TLV5614IPW	296-1922-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	16-TSSOP	14.06	12.66	11.23
TLV5616CD	296-2301-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	8-SOIC	5.12	4.10	3.46
TLV5616CDR	296-2301-1-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	8-SOIC	5.12	4.10	3.46
TLV5616CDR	296-2301-2-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	8-SOIC	7935.00/2,500		
TLV5616CP	296-3041-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	8-Dip	5.12	4.10	3.46
TLV5616ID	296-1923-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	8-SOIC	5.52	4.42	3.73
TLV5616IDR	296-1923-1-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	8-SOIC	5.52	4.42	3.73
TLV5616IDGK	296-3042-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	8-MSOP	5.52	4.42	3.73
TLV5616IDR	296-1923-2-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	8-SOP	8555.00/2,500		
TLV5617ACD	296-2302-5-ND	10-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	5.52	4.42	3.73

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV5617AID	296-3043-5-ND	10-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	5.92	4.74	4.00
TLV5618ACD	296-2303-5-ND	12-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.08	6.47	5.46
TLV5618AID	296-3044-5-ND	12-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.68	6.95	5.86
TLV5618AIP	296-10735-5-ND	12-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-Dip	8.68	6.95	5.86
TLV5618AQD	296-2304-5-ND	12-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.82	7.06	5.96
TLV5619IDW	296-3045-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-SOIC	5.52	4.42	3.73
TLV5619IPW	296-2305-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-TSSOP	5.52	4.42	3.73
TLV5620CD	296-3047-5-ND	8-Bit, 10µs 2.7-5.5V Quad Serial DAC	14-SOIC	2.38	1.90	1.43
TLV5620CN	296-2306-5-ND	8-Bit, 10µs 2.7-5.5V Quad Serial DAC	14-Dip	2.50	2.00	1.56
TLV5620ID	296-3048-5-ND	8-Bit, 10µs 2.7-5.5V Quad Serial DAC	14-SOIC	2.32	1.86	1.45
TLV5620IN	296-3049-5-ND	8-Bit, 10µs 2.7-5.5V Quad Serial DAC	14-Dip	2.66	2.13	1.66
TLV5621ID	296-2307-5-ND	8-Bit, 10µs 2.7-5.5V Quad Serial DAC	14-SOIC	3.71	2.97	2.31
TLV5623CD	296-2308-5-ND	8-Bit, 3µs 2.7-5.5V Single Serial DAC	8-SOIC	2.48	1.98	1.54
TLV5623CDGK	296-3051-5-ND	8-Bit, 3µs 2.7-5.5V Single Serial DAC	8-MSOP	2.48	1.98	1.54
TLV5623ID	296-3052-5-ND	8-Bit, 3µs 2.7-5.5V Sgl. Serial DAC	8-SOIC	2.66	2.13	1.66
TLV5623IDGK	296-3053-5-ND	8-Bit, 3µs 2.7-5.5V Single Serial DAC	8-MSOP	2.66	2.13	1.66
TLV5624CD	296-2309-5-ND	8-Bit, 1.0-3.5µs 2.7-5.5V Single Serial DAC	8-SOIC	3.51	2.81	2.19
TLV5624ID	296-3054-5-ND	8-Bit, 1.0-3.5µs 2.7-5.5V Single Serial DAC	8-SOIC	3.78	3.03	2.36
TLV5624IDGK	296-3055-5-ND	8-Bit, 1.0-3.5µs 2.7-5.5V Single Serial DAC	8-MSOP	3.78	3.03	2.36
TLV5625CD	296-2310-5-ND	8-Bit, 2.5 or 12µs 2.7-5.5V Dual Serial DAC	8-SOIC	3.71	2.97	2.31
TLV5625ID	296-3056-5-ND	8-Bit, 2.5 or 12µs 2.7-5.5V Dual Serial DAC	8-SOIC	4.01	3.21	2.50
TLV5626CD	296-2311-5-ND	8-Bit, 1µs 2.7-5.5V Dual Serial DAC	8-SOIC	4.75	3.80	2.96
TLV5626ID	296-3057-5-ND	8-Bit, 1µs 2.7-5.5V Dual Serial DAC	8-SOIC	5.11	4.09	3.18
TLV5627CD	296-2312-5-ND	8-Bit, 3µs 2.7-5.5V Dual Serial DAC	16-SOIC	5.10	4.08	3.45
TLV5627ID	296-3058-5-ND	8-Bit, 3µs 2.7-5.5V Dual Serial DAC	16-SOIC	5.50	4.40	3.72
TLV5627IPW	296-3059-5-ND	8-Bit, 3µs 2.7-5.5V Dual Serial DAC	16-TSSOP	5.50	4.40	3.72
TLV5628CDW	296-3060-5-ND	8-Bit, 10µs 2.7-5.5V Octal Serial DAC	16-SOIC	4.95	3.96	3.08
TLV5628CN	296-2313-5-ND	8-Bit, 10µs 2.7-5.5V Octal Serial DAC	16-Dip	5.22	4.18	3.25
TLV5628IDW	296-3061-5-ND	8-Bit, 10µs 2.7-5.5V Octal Serial DAC	16-SOIC	5.33	4.27	3.32
TLV5628IN	296-3062-5-ND	8-Bit, 10µs 2.7-5.5V Octal Serial DAC	16-Dip	5.58	4.47	3.48
TLV5629IDW	296-3063-5-ND	8-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-SOIC	5.68	4.55	3.84
TLV5629IPW	296-3064-5-ND	8-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-TSSOP	5.68	4.55	3.84
TLV5630IDW	296-3065-5-ND	12-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-SOIC	15.54	14.00	12.41
TLV5630IPW	296-3066-5-ND	12-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-TSSOP	15.54	14.00	12.41
TLV5631IDW	296-3067-5-ND	10-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-SOIC	8.40	7.56	6.71
TLV5631IPW	296-3068-5-ND	10-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-TSSOP	8.40	7.56	6.71
TLV5632IDW	296-3069-5-ND	8-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-SOIC	6.06	4.85	4.10
TLV5632IPW	296-3070-5-ND	8-Bit, 1/3µs 2.7-5.5V Octal Serial DAC	20-TSSOP	6.06	4.85	4.10
TLV5633CDW	296-2314-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-SOIC	8.48	6.79	5.73
TLV5633IDW	296-3071-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-SOIC	9.12	7.30	6.16
TLV5633IPW	296-3072-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	20-TSSOP	9.12	7.30	6.16
TLV5636CD	296-2315-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	8-SOIC	7.26	5.81	4.91
TLV5636ID	296-3073-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	8-SOIC	7.80	6.24	5.27
TLV5636IDGK	296-3074-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel DAC	8-MSOP	7.80	6.24	5.27
TLV5637CD	296-2316-5-ND	10-Bit, 1 µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.16	6.53	5.51
TLV5637ID	296-3075-5-ND	10-Bit, 1 µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.78	7.03	5.93
TLV5638CD	296-2317-5-ND	12-Bit, 1 or 3.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	7.44	5.96	5.03
TLV5638ID	296-3076-5-ND	12-Bit, 1 or 3.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.00	6.40	5.40
TLV5638QD	296-3077-5-ND	12-Bit, 1 or 3.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.45	7.61	6.75
TLV5639CDW	296-2318-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel Serial DAC	20-SOIC	6.80	5.44	4.59
TLV5639IDW	296-3078-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel Serial DAC	20-SOIC	7.32	5.86	4.95
TLV5639IPW	296-3079-5-ND	12-Bit, 1µs 2.7-5.5V Single Parallel Serial DAC	20-TSSOP	7.32	5.86	4.95

Audio Direct Stream Digital-to-Analog Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
DSD1700E	DSD1700E-ND	Dual Differential 5V, DAC	28-SSOP	15.94	14.36	12.73

Audio Digital-to-Analog Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
DF1704E	DF1704E-ND	Stereo, 24-Bit, Digital Interpolation Filter for PCM1704	28-SSOP	15.94	14.36	12.73
DSD1608PAH	296-13451-ND	8-Channel, Enhanced Multiformat, Delta-Sigma DAC	52-TQFP	9.00	8.10	7.19
DSD1702E	296-13072-5-ND	Enhanced Multiformat, Delta-Sigma, Audio DAC	20-QSOP	3.96	3.17	2.47
PCM55HP	PCM55HP-ND	16-Bit, Monolithic Audio D/A	24-SOIC	30.35	28.33	26.30
PCM56P	PCM56P-ND	Serial In 16-Bit, Mono DAC, -80dB	16-Dip	10.78	8.63	7.28
PCM56U	PCM56U-ND	16-Bit, Audio DAC	16-SOIC	8.94	7.16	6.04
PCM69AP	PCM69AP-ND	Dual 18-Bit, BICMOS Audio D/A	16-Dip	16.01	14.42	12.79
PCM69AP-J	PCM69AP-J-ND	Dual 18-Bit, BICMOS Audio D/A	16-Dip	16.37	15.28	14.19
PCM69AP-K	PCM69AP-K-ND	Dual 18-Bit, BICMOS Audio D/A	16-Dip	23.07	21.54	20.00
PCM69AU	PCM69AU-ND	Dual 18-Bit, BICMOS Audio D/A	20-SOIC	16.01	14.42	12.79
PCM69AU-J	PCM69AU-J-ND	Dual 18-Bit, BICMOS Audio D/A	20-SOIC	16.37	15.28	14.19
PCM69AU-K	PCM69AU-K-ND	Dual 18-Bit, BICMOS Audio D/A	20-SOIC	23.07	21.54	20.00
PCM1600Y	PCM1600Y-ND	24-Bit, 96kHz, 6-Channel DAC	48-LQFP	7.50	6.00	5.07
PCM1601Y	PCM1601Y-ND	24-Bit, 96kHz, 6-Channel DAC	48-MQFP	7.50	6.00	5.07
PCM1602KY	PCM1602KY-ND	24-Bit, 192kHz, 6-Channel D/A	48-LQFP	6.44	5.16	4.35
PCM1602Y	PCM1602Y-ND	24-Bit, 192kHz, 6-Channel D/A	48-LQFP	5.86	4.69	3.96
PCM1604Y	PCM1604Y-ND	24-Bit, 192KHz, 6-Channel DAC	48-LQFP	8.26	6.61	5.58
PCM1605Y	PCM1605Y-ND	24-Bit, 192KHz, 6-Channel DAC	48-MQFP	8.26	6.61	5.58

(Continued)

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TEXAS INSTRUMENTS DATA CONVERSION *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCM1608KY	PCM1608KY-ND	24-Bit, 192kHz, 8-Channel D/A	48-LQFP	8.54	6.84	5.77
PCM1608Y	PCM1608Y-ND	24-Bit, 192kHz, 8-Channel D/A	48-LQFP	7.78	6.23	5.26
PCM1702P	PCM1702P-ND	BiCMOS Advanced Sign Magnitude 20-Bit D/A -88dB THD	16-Dip	16.79	15.67	14.55
PCM1702P-J	PCM1702P-J-ND	20-Bit, CMOS Advanced Sign Magnitude Audio D/A	16-Dip	19.31	18.02	16.74
PCM1702P-K	PCM1702P-K-ND	20-Bit, CMOS Advanced Sign Magnitude Audio D/A	16-Dip	26.15	24.41	22.66
PCM1702U-J	PCM1702U-J-ND	20-Bit, BICMOS Advanced Sign Magnitude	20-SOIC	19.31	18.02	16.74
PCM1702U-K	PCM1702U-K-ND	BiCMOS Advanced Sign Magnitude 20-Bit, D/A -96dB THD	20-SOP	26.15	24.41	22.66
PCM1704U	PCM1704U-ND	24-Bit, 96kHz Audio DAC, 0.0030%THD	20-SOIC	18.45	17.22	15.99
PCM1704U-J	PCM1704U-J-ND	24-Bit, 96kHz Audio DAC, 0.0025%THD	20-SOIC	22.22	20.74	19.26
PCM1704U-K	PCM1704U-K-ND	24-Bit, 96kHz Audio DAC, 0.0015%THD	20-SOIC	32.67	30.50	28.32
PCM1710U	PCM1710U-ND	Dual Voltage Output CMOS Delta-Sigma DAC with On-Chip Digital Filter	28-SOIC	7.60	6.08	5.13
PCM1716E	PCM1716E-ND	24-Bit, Stereo 96kHz Sampling DAC	28-SSOP	4.82	3.86	3.00
PCM1717E	PCM1717E-ND	Stereo Audio DAC	20-SSOP	6.06	4.85	4.10
PCM1718E	PCM1718E-ND	Stereo Audio DAC, -90dB THD	20-SSOP	6.06	4.85	4.10
PCM1719E	PCM1719E-ND	Stereo Audio DAC, -88dB THD	28-SSOP	7.98	6.39	5.39
PCM1720E	PCM1720E-ND	Stereo Audio DAC, MPEG2/AC-3 Compatible	20-SSOP	3.96	3.17	2.47
PCM1723E	PCM1723E-ND	Stereo DAC w/Programmable PLL	24-SSOP	4.70	3.77	2.93
PCM1725U	PCM1725U-ND	16-Bit, Stereo 96kHz Sampling DAC	14-SOIC	2.57	2.06	1.60
PCM1727E	PCM1727E-ND	Stereo DAC with Programmable Dual PLL	24-SSOP	5.64	4.52	3.81
PCM1728E	PCM1728E-ND	24-Bit, 96kHz Stereo Audio DAC	28-SSOP	5.64	4.52	3.81
PCM1730E	PCM1730E-ND	24-Bit, 192kHz Stereo Audio DAC	28-SSOP	9.02	7.22	6.09
PCM1733U	PCM1733U-ND	18-Bit, Low Cost Stereo DAC	14-SOIC	2.70	2.16	1.68
PCM1737E	PCM1737E-ND	192kHz Stereo Audio DAC	28-SSOP	6.64	5.32	4.49
PCM1738E	PCM1738E-ND	24-Bit, 192kHz Stereo Audio DAC	28-SSOP	9.50	7.60	6.42
PCM1739E	PCM1739E-ND	192kHz Stereo Audio DAC	28-SSOP	6.64	5.32	4.49
PCM1740E	PCM1740E-ND	PLL DAC with VCXO	24-SSOP	5.64	4.52	3.81
PCM1741E	PCM1741E-ND	24-Bit, 96kHz Audio DAC	16-SSOP	3.13	2.51	1.95
PCM1742E	PCM1742E-ND	24-Bit, 96kHz Audio DAC	16-SSOP	3.33	2.67	2.08
PCM1742KE	PCM1742KE-ND	24-Bit, 96kHz Audio DAC	16-SSOP	3.67	2.94	2.29
PCM1744U	PCM1744U-ND	24-Bit, Low Cost Stereo DAC	14-SOIC	2.70	2.16	1.68
PCM1748E	PCM1748E-ND	24-Bit, Stereo Audio DAC	16-SSOP	2.36	1.89	1.47
PCM1748E/2K	PCM1748ETR-ND	24-Bit, Stereo Audio DAC	16-SSOP	2704.00/2,000		
PCM1748KE	PCM1748KE-ND	24-Bit, Stereo Audio DAC	16-SSOP	2.59	2.07	1.61
PCM1748KE/2K	PCM1748KETR-ND	24-Bit, Stereo Audio DAC	16-SSOP	2984.00/2,000		
PCM1750U	PCM1750U-ND	Dual 18-Bit, Audio DAC	28-SOIC	32.34	30.19	28.03
PCM1760U-L	PCM1760U-L-ND	Dual 20-Bit, Audio DAC	28-SOIC	20.72	19.34	17.96
PCM1770PW	296-13470-5-ND	Low Voltage, Low Power, Stereo Audio DAC w/Headphone Amplifier	16-TSSOP	3.85	3.08	2.40
PCM1770RGA	296-13471-ND	Low Voltage, Low Power, Stereo Audio DAC w/Headphone Amplifier	20-VQFN	4.23	3.39	2.64
PCM1771PW	296-13472-5-ND	Low Voltage, Low Power, Stereo Audio DAC w/Headphone Amplifier	16-TSSOP	3.85	3.08	2.40
PCM1771RGA	296-13473-ND	Low Voltage, Low Power, Stereo Audio DAC w/Headphone Amplifier	24-SSOP	4.23	3.39	2.64
PCM1772PW	296-13474-5-ND	Low Voltage, Low Power, Stereo Audio DAC w/Lineout Amplifier	16-TSSOP	3.85	3.08	2.40
PCM1772RGA	296-13475-ND	Low Voltage, Low Power, Stereo Audio DAC w/Lineout Amplifier	24-SSOP	4.23	3.39	2.64
PCM1773PW	296-13476-5-ND	Low Voltage, Low Power, Stereo Audio DAC w/Lineout Amplifier	16-TSSOP	3.85	3.08	2.40
PCM1773RGA	296-13477-ND	Low Voltage, Low Power, Stereo Audio DAC w/Lineout Amplifier	24-SSOP	4.23	3.39	2.64
PCM2702	PCM2702E-ND	16-Bit, Stereo Audio DAC	28-SSOP	8.71	7.85	6.96

Voltage-to-Current Converter

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
XTR110AG	296-13640-5-ND	Precision Voltage-to-Current Converter/Transmitter	16-Dip	15.89	14.31	12.69

Voltage-to-Frequency Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
VFC32KP	VFC32KP-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	6.36	5.09	4.30
VFC32KU	VFC32KU-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-SOIC	7.60	6.08	5.13
VFC110AP	VFC110AP-ND	High Frequency Voltage-to-Frequency Converter	14-Dip	19.01	17.12	15.18
VFC320BP	296-12616-5-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	17.88	16.69	15.50
VFC320CP	VFC320CP-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	19.67	18.36	17.05

TEXAS INSTRUMENTS DATA TRANSMISSION

4-20mA Transmitters/Receivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
RCV420JP	RCV420JP-ND	1-20mA Prec. Current Loop Receiver	16-Dip	6.42	5.14	4.34
RCV420KP	RCV420KP-ND	4-20mA Prec. Current Loop Receiver	16-Dip	10.88	8.71	7.35
XTR101AP	XTR101AP-ND	Precision, Low Drift, 4-20mA Two-Wire Transmitter	14-Dip	11.61	10.46	9.28
XTR101AU	XTR101AU-ND	Precision, Low Drift, 4-20mA Two-Wire Transmitter	16-SOIC	12.50	11.25	9.98
XTR105P	XTR105P-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-Dip	8.40	7.56	6.71
XTR105PA	XTR105PA-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-Dip	7.20	5.76	4.86
XTR105U	XTR105U-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-SOIC	8.40	7.56	6.71
XTR105UA	XTR105UA-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-SOIC	7.20	5.76	4.86
XTR106P	XTR106P-ND	4-20mA Current Transmitter	14-Dip	8.40	7.56	6.71
XTR106PA	XTR106PA-ND	4-20mA Current Transmitter	14-Dip	7.20	5.76	4.86
XTR106U	XTR106U-ND	4-20mA Current Transmitter	14-SOIC	8.40	7.56	6.71
XTR106UA	XTR106UA-ND	4-20mA Current Transmitter	14-SOIC	7.20	5.76	4.86
XTR108EA/2K5	XTR108EACT-ND	4-20mA 2-Wire Transmitter	24-SSOP	6.06	4.85	4.10
XTR108EA/2K5	XTR108EATR-ND	4-20mA 2-Wire Transmitter	24-SSOP	9392.50/2,500		
XTR110KP	XTR110KP-ND	4-20mA Precision, Voltage-to-Current Converter/Transmitter	16-Dip	10.16	9.15	8.12
XTR110KU	XTR110KU-ND	4-20mA Precision, Voltage-to-Current Converter/Transmitter	16-SOIC	10.16	9.15	8.12
XTR112U	XTR112U-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	8.40	7.56	6.71
XTR112UA	XTR112UA-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	7.20	5.76	4.86
XTR114U	XTR114U-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	8.40	7.56	6.71
XTR114UA	XTR114UA-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	7.20	5.76	4.86
XTR115U	XTR115U-ND	4-20mA Current Transmitter	8-SOIC	2.88	2.30	1.73
XTR115UA	XTR115UA-ND	4-20mA Current Transmitter	8-SOIC	2.28	1.82	1.37
XTR116U	XTR116U-ND	4-20mA Current Transmitter	8-SOIC	2.88	2.30	1.73
XTR116UA	XTR116UA-ND	4-20mA Current Transmitter	8-SOIC	2.28	1.82	1.37

ADSL Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS6002CDWP	296-1765-5-ND	Dual Differential Line Driver/Rcvr.	20-HSOP	9.56	7.65	6.46
THS6002IDWP	296-1766-5-ND	Dual Differential Line Driver/Rcvr.	20-HSOP	9.56	7.65	6.46
THS6007IPWP	296-10060-5-ND	Dual Differential Line Driver Low Power Receiver	28-HTSSOP	9.88	7.91	6.67
THS6012CDWP	296-2372-5-ND	Dual Differential ADSL Driver	20-SOIC	8.00	6.40	5.40
THS6012IDWP	296-1767-5-ND	Dual Differential Line Driver	20-HSOP	8.00	6.40	5.40
THS6012IGQER	296-10062-1-ND	Dual Differential Line Driver	80-VFBGA	8.04	6.44	5.43
THS6012IGQER	296-10062-2-ND	Dual Differential Line Driver	80-VFBGA	12462.50/2,500		
THS6022CPWP	296-1768-5-ND	Dual Differential Line Driver	14-HTSSOP	5.38	4.31	3.64
THS6022IPWP	296-1769-5-ND	Dual Differential Line Driver	14-HTSSOP	5.38	4.31	3.64
THS6032CDWP	296-2373-5-ND	Low Power ADSL Line Driver	20-SOIC	8.18	6.55	5.53
THS6032IDWP	296-10065-5-ND	Low Power ADSL Line Driver	20-HSOP	8.18	6.55	5.53
THS6032IGQER	296-10066-1-ND	Low Power ADSL Line Driver	80-VFBGA	8.20	6.56	5.54
THS6032IGQER	296-10066-2-ND	Low Power ADSL Line Driver	80-VFBGA	12710.00/2,500		
THS6032IVFP	296-12689-ND	Low Power ADSL Line Driver	32-TQFP	8.18	6.55	5.53
THS6042ID	296-12315-5-ND	High Speed ADSL CPE Line Driver	8-SOIC	5.28	4.23	3.57
THS6042IDDA	296-12667-5-ND	High Speed ADSL CPE Line Driver	8-SOIC	5.28	4.23	3.57
THS6043ID	296-12316-5-ND	High Speed CPE Line Driver with Shutdown	14-SOIC	5.28	4.23	3.57
THS6043IPWP	296-12317-5-ND	High Speed CPE Line Driver with Shutdown	14-HTSSOP	5.28	4.23	3.57
THS6052ID	296-11984-5-ND	Dual HS ADSL CPE Line Driver	8-SOIC	5.13	4.11	3.20
THS6052IDDA	296-12668-5-ND	Dual HS ADSL CPE Line Driver	8-SOIC	5.13	4.11	3.20
THS6052IDR	296-11984-1-ND	Dual HS ADSL Line Driver	8-SOIC	5.18	4.14	3.22
THS6052IDR	296-11984-2-ND	Dual HS ADSL Line Driver	8-SOIC	7245.00/2,500		
THS6053ID	296-12318-5-ND	Dual HS ADSL CPE Line Driver with Shutdown	14-SOIC	5.13	4.11	3.20
THS6053IPWP	296-11985-5-ND	Dual HS ADSL Line Driver with Shutdown	14-HTSSOP	5.13	4.11	3.20
THS6053IPWPR	296-11985-1-ND	Dual HS ADSL Line Driver with Shutdown	14-HTSSOP	5.18	4.14	3.22
THS6053IPWPR	296-11985-2-ND	Dual HS ADSL Line Driver with Shutdown	14-HTSSOP	5866.00/2,000		
THS6062CD	296-2374-5-ND	Dual ADSL Differential Receiver	8-SOIC	4.73	3.78	2.94
THS6072CD	296-2375-5-ND	Low Power ADSL Differential Receiver	8-SOIC	4.73	3.78	2.94
THS6092ID	296-12319-5-ND	Dual HS ADSL CPE Line Driver with Shutdown	8-SOIC	4.30	3.44	2.68
THS6092IDDAR	296-12669-1-ND	Dual HS ADSL CPE Line Driver with Shutdown	8-SOIC	4.34	3.48	2.71
THS6092IDDAR	296-12669-2-ND	Dual HS ADSL CPE Line Driver with Shutdown	8-SOIC	6080.00/2,500		
THS6093ID	296-11986-5-ND	Dual HS ADSL CPE Line Driver with Shutdown	14-SOIC	4.30	3.44	2.68
THS6093IPWP	296-12320-5-ND	Dual HS ADSL CPE Line Driver with Shutdown	14-HTSSOP	4.30	3.44	2.68
THS6132VFP	296-13744-5-ND	High Efficiency Class-G ADSL Line Driver	32-TQFP	7.32	5.86	4.95
TCM1050D	296-9980-5-ND	Dual Transient Voltage Suppressor	8-SOIC	2.23	1.78	1.34

Ethernet

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DLKPC192SGNT	296-13858-ND	10Gbps Ethernet Lan Physical Coding Sublayer (PCS) *NEW!*	289-PBGA	153.90	143.64	133.38
TLK1201IRCP	296-13362-ND	Gigabit Ethernet Transceiver	64-VQFP	7.90	6.32	5.34
TLK1501IRCP	296-10484-ND	0.6 to 1.5Gbps Transceiver	64-VQFP	12.66	11.40	10.11
TLK2201IRCP	296-10485-ND	1.0 to 1.6Gbps Ethernet Transceiver	64-VQFP	7.90	6.32	5.34
TLK2201JRGQE	296-10486-ND	1.0 to 1.6Gbps Ethernet Transceiver	80-BGA	6.58	5.27	4.45
TLK2201RCP	296-10487-ND	1.0 to 1.6Gbps Ethernet Transceiver	64-VQFP	6.58	5.27	4.45
TLK2208GPV	296-14049-5-ND	1.0 to 1.3Gbps 8-Port Gigabit Ethernet Transceiver *NEW!*	289-BGA	42.75	39.90	37.05
TLK2501IRCP	296-10488-ND	1.6 to 2.5Gbps Transceiver	64-VQFP	17.10	15.96	14.82
TLK2701IRCP	296-10489-ND	1.6 to 2.7Gbps Transceiver	64-VQFP	17.10	15.96	14.82
TLK2711IRCP	296-12215-ND	1.6 to 2.7Gbps Transceiver	64-VQFP	17.10	15.96	14.82
TLK2711JRGQE	296-12216-ND	1.6 to 2.7Gbps Transceiver	80-BGA	17.10	15.96	14.82
TLK3101IRCP	296-10490-ND	2.5 to 3.125Gbps Transceiver	64-VQFP	22.82	21.30	19.78
TLK3104SAGNT	296-12040-5-ND	10Gbps Ethernet Backplane Transceiver	289-PBGA	94.05	87.78	81.51
TLK3104SCGNT	296-13704-ND	3.125Gbps Quad Serial Backplane Transceiver	289-PBGA	171.00	159.60	148.20
TLK3114SAGNT	296-12747-ND	Quad High Speed Serial Transceiver	289-PBGA	94.05	87.78	81.51
TLK4015IGPV	296-14198-5-ND	0.6 to 1.5Gbps Quad Transceiver *NEW!*	289-PBGA	39.90	37.24	34.58
TNETE2201BPHD	296-10772-ND	1.25Gbps Ethernet Transcvr	64-QFP	8.36	6.69	5.65
TNETE2201BPJD	296-10773-ND	1.25Gbps Ethernet Transcvr	64-QFP	8.36	6.69	5.65
TNETE2201BPJW	296-14388-ND	1.25Gbps Ethernet Transcvr *NEW!*	64-QFP	8.36	6.69	5.65

LCD

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BUF07703PWP	296-14632-5-ND	Multi-Channel LCD Gamma Correction Buffer *NEW!*	20-HTSSOP	2.36	1.89	1.47
TFP101APZP	296-9987-ND	86MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-TQFP	7.70	6.16	5.20
TFP101PZP	296-9988-ND	86MHz PanelBus DVI Receiver	100-TQFP	7.70	6.16	5.20
TFP201APZP	296-9989-ND	112MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-TQFP	8.56	6.85	5.78
TFP201PZP	296-9990-ND	112MHz PanelBus DVI Receiver	100-TQFP	8.56	6.85	5.78
TFP401APZP	296-9991-ND	165MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-TQFP	9.50	7.60	6.42

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TFP401PZP	296-9992-ND	165MHz PanelBus DVI Receiver	100-TQFP	9.50	7.60	6.42
TFP403PZP	296-9993-ND	165MHz PanelBus DVI Receiver	100-TQFP	10.81	9.74	8.64
TFP410PAP	296-12666-ND	PanelBus Digital Transmitter	64-TQFP	5.98	4.79	4.04

LV

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65LV1021DB	296-12856-5-ND	10:1 LVDS Serializer	28-SSOP	9.50	7.60	6.42
SN65LV1023DB	296-12857-5-ND	10:1 LVDS Serializer	28-SSOP	9.88	7.91	6.67

LVDM

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65LVDM050D	296-1416-5-ND	Dual Differential Line Driver/Receiver	16-SOIC	4.34	3.48	2.71
SN65LVDM050PW	296-12020-5-ND	HS Diff. Line Driver/Receiver	16-TSSOP	4.34	3.48	2.71
SN65LVDM051D	296-1417-5-ND	Dual Differential Line Driver/Receiver	16-SOIC	4.34	3.48	2.71
SN65LVDM051PW	296-12021-5-ND	HS Diff. Line Driver/Receiver	16-TSSOP	4.34	3.48	2.71
SN65LVDM22D	296-1421-5-ND	Dual Mux LVDS Repeater	16-SOIC	4.95	3.96	3.08
SN65LVDM22PW	296-12023-5-ND	Dual Mux LVDS Repeater	16-TSSOP	4.95	3.96	3.08
SN65LVDM31D	296-6905-5-ND	High Speed Diff. Line Driver	16-SOIC	4.55	3.64	2.83
SN65LVDM176D	296-1418-5-ND	High Speed Diff. Line Transceiver	8-SOIC	3.35	2.69	2.09
SN65LVDM176DGK	296-6903-5-ND	High Speed Diff. Multipoint Transceiver	8-SOP	3.35	2.69	2.09
SN65LVDM179D	296-1419-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	3.35	2.69	2.09
SN65LVDM179DGK	296-6904-5-ND	High Speed Diff. Line Driver/Receiver	8-SOP	3.35	2.69	2.09
SN65LVDM180D	296-1420-5-ND	High Speed Differential Line Driver/Receiver	14-SOIC	3.35	2.69	2.09
SN65LVDM180PW	296-12022-5-ND	High Speed Differential Line Driver/Receiver	14-TSSOP	3.35	2.69	2.09
SN65LVDM320DGG	296-13125-5-ND	8-Bit, HS Differential Registered Transceiver	64-TSSOP	11.53	10.38	9.21
SN75LVDM976DGG	296-1760-5-ND	9-Channel Dual-Mode Transceiver	56-TSSOP	13.24	11.93	10.58
SN75LVDM976DL	296-6934-5-ND	9-Channel Dual-Mode Transceiver	56-SOP	13.24	11.93	10.58
SN75LVDM977DGG	296-2365-5-ND	9-Channel Dual-Mode Transceiver	56-TSSOP	13.24	11.93	10.58
SN75LVDM977DL	296-6935-5-ND	9-Channel Dual-Mode Transceiver	56-SOP	13.24	11.93	10.58
SN65LVDM1676DGG	296-9734-5-ND	16-Channel Transceiver	64-TSSOP	11.35	10.22	9.06
SN65LVDM1677DGG	296-9735-5-ND	16-Channel Transceiver	64-TSSOP	11.78	10.61	9.41

LVDS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65CML100D	296-13870-5-ND	1.5-Gbps LVDS Translator/ Repeater *NEW!*	8-SOIC	5.00	4.00	3.11
SN65CML100DGK	296-13871-5-ND	1.5-Gbps LVDS Translator/ Repeater *NEW!*	8-MSOP	5.00	4.00	3.11
SN65LVDS047D	296-6909-5-ND	LVDS Quad Differential Line Driver	16-SOP	3.62	2.90	2.26
SN65LVDS047PW	296-6910-5-ND	LVDS Quad Differential Line Driver	16-SOP	3.62	2.90	2.26
SN65LVDS048AD	296-6911-5-ND	Quad High Speed Diff. Line Receiver	16-SOIC	3.62	2.90	2.26
SN65LVDS048APW	296-6912-5-ND	Quad High Speed Diff. Line Receiver	16-SOP	3.62	2.90	2.26
SN65LVDS050D	296-1422-5-ND	HS Diff. Line Driver/Receiver	16-SOIC	4.39	3.51	2.73
SN65LVDS050PW	296-12051-5-ND	HS Diff. Line Driver/Receiver	16-TSSOP	4.39	3.51	2.73
SN65LVDS051D	296-1423-5-ND	HS Diff. Line Driver/Receiver	16-SOIC	4.39	3.51	2.73
SN65LVDS051PW	296-12052-5-ND	HS Diff. Line Driver/Receiver	16-TSSOP	4.39	3.51	2.73
SN65LVDS1D	296-12138-5-ND	High Speed Diff. Line Driver	8-SOIC	1.45	1.16	.87
SN65LVDS1DBVR	296-6919-1-ND	High Speed Diff. Line Driver	SOT-23-5	1.45	1.16	.87
SN65LVDS1DBVR	296-6919-2-ND	High Speed Diff. Line Driver	SOT-23-5	2226.00/3,000		
SN65LVDS2D	296-12139-5-ND	High Speed Diff. Line Receiver	8-SOIC	1.45	1.16	.87
SN65LVDS2DBVR	296-6920-1-ND	High Speed Diff. Line Receiver	SOT-23-5	1.45	1.16	.87
SN65LVDS2DBVR	296-6920-2-ND	High Speed Diff. Line Receiver	SOT-23-5	2226.00/3,000		
SN65LVDS22D	296-1426-5-ND	Dual Mux LVDS Repeater	16-SOIC	5.30	4.24	3.58
SN65LVDS22PW	296-12024-5-ND	Dual Mux LVDS Repeater	16-TSSOP	5.30	4.24	3.58
SN65LVDS31D	296-6922-5-ND	Quad High Speed Diff. Driver	16-SOIC	3.65	2.92	2.27
SN65LVDS31NS	296-2350-5-ND	Quad High Speed Diff. Driver	16-SOP	3.65	2.92	2.27
SN65LVDS31PW	296-12329-5-ND	Quad High Speed Diff. Driver	16-TSSOP	3.65	2.92	2.27
SN65LVDS32BDR	296-6923-1-ND	Quad High Speed Diff. Receiver	16-SOP	5.00	4.00	3.38
SN65LVDS32BDR	296-6923-2-ND	Quad High Speed Diff. Receiver	16-SOP	7750.00/2,500		
SN65LVDS32D	296-6924-5-ND	Quad High Speed Diff. Receiver	16-SOP	3.65	2.92	2.27
SN65LVDS32PW	296-12330-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	3.65	2.92	2.27
SN65LVDS33D	296-9742-5-ND	Quad High Speed Diff. Receiver	16-SOP	4.39	3.51	2.73
SN65LVDS33PW	296-9743-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	4.39	3.51	2.73
SN65LVDS34D	296-9744-5-ND	Dual High Speed Diff. Receiver	8-SOP	2.66	2.13	1.66
SN65LVDS84AQDGG	296-9747-5-ND	Flatlink™ Transmitter	48-TSSOP	4.59	3.68	2.86
SN65LVDS84AQDGGR	296-9747-1-ND	Flatlink™ Transmitter	48-TSSOP	4.59	3.68	2.86
SN65LVDS84AQDGGR	296-9747-2-ND	Flatlink™ Transmitter	48-TSSOP	5202.00/2,000		
SN65LVDS86AQDGG	296-9748-5-ND	Flatlink™ Receiver	48-TSSOP	4.59	3.68	2.86
SN65LVDS86AQDGGR	296-9748-1-ND	Flatlink™ Receiver	48-TSSOP	4.59	3.68	2.86
SN65LVDS86AQDGGR	296-9748-2-ND	Flatlink™ Receiver	48-TSSOP	5202.00/2,000		
SN65LVDS93DGG	296-1429-5-ND	LVDS SERDES Transmitter	56-TSSOP	6.56	5.25	4.43
SN65LVDS94DGG	296-1430-5-ND	LVDS SERDES Receiver	56-TSSOP	6.56	5.25	4.43
SN65LVDS95DGG	296-1431-5-ND	LVDS SERDES Transmitter	48-TSSOP	6.56	5.25	4.43
SN65LVDS96DGG	296-1434-5-ND	LVDS SERDES Receiver	48-TSSOP	6.56	5.25	4.43
SN65LVDS100D	296-13624-5-ND	2-Gbps Differential Translator/Repeater	8-SOIC	5.00	4.00	3.11
SN65LVDS100DGK	296-13625-5-ND	2-Gbps Differential Translator/Repeater	8-MSOP	5.00	4.00	3.11
SN65LVDS101D	296-13626-5-ND	2-Gbps Differential Translator/Repeater	8-SOIC	5.00	4.00	3.11
SN65LVDS101DGK	296-13627-5-ND	2-Gbps Differential Translator/Repeater	8-MSOP	5.00	4.00	3.11
SN65LVDS104D	296-2344-5-ND	1:4 LVDS Clock Buffer	16-SOIC	4.39	3.51	2.73
SN65LVDS104PW	296-6915-5-ND	1:4 LVDS Clock Buffer	16-SOP	4.39	3.51	2.73
SN65LVDS105D	296-2345-5-ND	1:4 LVDS Clock Buffer	16-SOIC	4.39	3.51	2.73
SN65LVDS105PW	296-6917-5-ND	1:4 LVDS Clock Buffer	16-SOP	4.39	3.51	2.73
SN65LVDS108DBT	296-2346-5-ND	8-Port LVDS Repeater	38-TSSOP	7.04	5.64	4.76
SN65LVDS109DBT	296-2347-5-ND	Dual 1:4 LVDS Repeater	38-TSSOP	7.04	5.64	4.76
SN65LVDS116DGG	296-2348-5-ND	1:16 LVDS Repeater	64-TSSOP	8.75	7.88	6.99
SN65LVDS116DGGR	296-2348-1-ND	1:16 LVDS Repeater	64-TSSOP	8.75	7.88	6.99
SN65LVDS116DGGR	296-2348-2-ND	1:16 LVDS Repeater	64-TSSOP	12968.00/2,000		
SN65LVDS117DGG	296-2349-5-ND	Dual 8-Port LVDS Repeater	64-TSSOP	8.75	7.88	6.99
SN65LVDS117DGGR	296-2349-1-ND	Dual 8-Port LVDS Repeater	64-TSSOP	8.75	7.88	6.99
SN65LVDS117DGGR	296-2349-2-ND	Dual 8-Port LVDS Repeater	64-TSSOP	12968.00/2,000		
SN65LVDS122D	296-13650-5-ND	1.5Gbps 2x2 LVDS Crosspoint Switch	16-SOIC	8.36	6.69	5.65
SN65LVDS122PW	296-13651-5-ND	1.5Gbps 2x2 LVDS Crosspoint Switch	16-TSSOP	8.36	6.69	5.65
SN65LVDS150PW	296-9737-5-ND	MuxIt™ PLL Freq. Multiplier	28-TSSOP	6.16	4.93	4.16
SN65LVDS151DA	296-9738-5-ND	MuxIt™ Serializer Transmitter	32-TSSOP	5.02	4.02	3.13
SN65LVDS152DA	296-9739-5-ND	MuxIt™ Receiver-Deserializer	32-TSSOP	5.02	4.02	3.13
SN65LVDS179D	296-1424-5-ND	Single HS Differential Driver/Receiver	8-SOIC	2.66	2.13	1.66
SN65LVDS179DGK	296-6918-5-ND	Single HS Differential Driver/Receiver	8-SOP	2.66	2.13	1.66
SN65LVDS180D	296-1425-5-ND	HS Differential Line Driver/Receiver	14-SOIC	2.66	2.13	1.66
SN65LVDS180PW	296-12053-5-ND	HS Differential Line Driver/Receiver	14-TSSOP	2.66	2.13	1.66
SN65LVDS348D	296-12735-5-ND	Quad High Speed Diff. Receiver	16-SOIC	5.18	4.15	3.50
SN65LVDS348PW	296-12648-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	5.18	4.15	3.50
SN65LVDS352PW	296-12649-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	5.30	4.24	3.58
SN65LVDS386DGG	296-2353-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.78	7.83	6.61
SN65LVDS386DGGR	296-2353-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.78	7.83	6.61
SN65LVDS386DGGR	296-2353-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	12226.00/2,000		
SN65LVDS387DGG	296-2354-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	9.78	7.83	6.61
SN65LVDS388ADBT	296-6926-5-ND	Octal LVDS Receiver	38-TSSOP	5.72	4.58	3.87
SN65LVDS389DBT	296-2356-5-ND	8-Channel, High Speed Diff. Driver	38-TSSOP	5.72	4.58	3.87
SN65LVDS390D	296-6927-5-ND	High Speed Differential Line Receiver	16-SOP	3.65	2.92	2.27
SN65LVDS390PW	296-6928-5-ND	High Speed Differential Line Receiver	16-SOP	3.65	2.92	2.27
SN65LVDS391D	296-6929-5-ND	High Speed Differential Driver	16-SOIC	3.65	2.92	2.27
SN65LVDS391PW	296-6930-5-ND	High Speed Differential Driver	16-SOP	3.65	2.92	2.27
SN65LVDS1050PW	296-6916-5-ND	HS Differential Line Driver/Receiver	16-SOP	4.39	3.51	2.73
SN65LVDS3486BDR	296-6925-1-ND	Quad LVDS Receiver	16-SOP	5.00	4.00	3.38
SN65LVDS3486BDR	296-6925-2-ND	Quad LVDS Receiver	16-SOP	7750.00/2,500		
SN65LVDS3486D	296-1427-5-ND	High Speed Diff. Line Receiver	16-SOIC	3.65	2.92	2.27
SN65LVDS3487D	296-1428-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	3.65	2.92	2.27
SN65LVDS9637BDR	296-6931-1-ND	Dual LVDS Receiver	8-SOP	2.48	1.98	1.54
SN65LVDS9637BDR	296-6931-2-ND	Dual LVDS Receiver	8-SOP	3465.00/2,500		
SN65LVDS9637D	296-1432-5-ND	Dual HS Differential Receiver	8-SOIC	2.48	1.98	1.54
SN65LVDS9637DGK	296-12003-5-ND	Dual HS Differential Receiver	8-MSOP	2.48	1.98	1.54
SN65LVDS9637DGKR	296-12003-1-ND	Dual HS Differential Receiver	8-MSOP	2.48	1.98	1.54
SN65LVDS9637DGKR	296-12003-2-ND	Dual HS Differential Receiver	8-MSOP	3465.00/2,500		
SN65LVDS9637DGN	296-6932-5-ND	Dual HS Differential Receiver	8-MSOP	2.59	2.07	1.61
SN65LVDS9638D	296-1433-5-ND	Dual HS Differential Driver	8-SOIC	2.48	1.98	1.54
SN65LVDS9638DGK	296-12004-5-ND	Dual HS Differential Driver	8-MSOP	2.48	1.98	1.54
SN65LVDS9638DGKR	296-12004-1-ND	Dual HS Differential Driver	8-MSOP	2.48	1.98	1.54
SN65LVDS9638DGKR	296-12004-2-ND	Dual HS Differential Driver	8-MSOP	3465.00/2,500		
SN65LVDS9638DGN	296-6933-5-ND	Dual HS Differential Driver	8-MSOP	2.59	2.07	1.61
SN65MLVD201D	296-14187-5-ND	Multipoint LVDS Line Driver/ Receiver *NEW!*	8-SOIC	4.16	3.33	2.59
SN65MLVD203D	296-14188-5-ND	Multipoint LVDS Line Driver/ Receiver *NEW!*	8-SOIC	4.16	3.33	2.59
SN65MLVD206D	296-14189-5-ND	Multipoint LVDS Line Driver/ Receiver *NEW!*	8-SOIC	4.16	3.33	2.59
SN65MLVD207D	296-14190-5-ND	Multipoint LVDS Line Driver/ Receiver *NEW!*	8-SOIC	4.16	3.33	2.59
SN75LVDS31D	296-12325-5-ND	Quad HS Differential Driver	16-SOIC	3.17	2.54	1.98
SN75LVDS31PW	296-12005-5-ND	Quad HS Differential Driver	16-TSSOP	3.17	2.54	1.98
SN75LVDS31PWR	296-12005-1-ND	Quad HS Differential Driver	16-TSSOP	3.17	2.54	1.98
SN75LVDS31PWR	296-12005-2-ND	Quad HS Differential Driver	16-TSSOP	3596.00/2,000		
SN75LVDS32D	296-12326-5-ND	Quad HS Differential Driver	16-SOIC	3.17	2.54	1.98
SN75LVDS32PW	296-13328-5-ND	Quad HS Differential Driver	16-TSSOP	3.17	2.54	1.98
SN75LVDS82DGGR	296-6666-1-ND	Flatlink™ Receiver	56-TSSOP	4.46	3.57	2.78
SN75LVDS82DGGR	296-6666-2-ND	Flatlink™ Receiver	56-TSSOP	5050.00/2,000		
SN75LVDS83DGG	296-6667-5-ND	Flatlink™ Transmitter	56-TSSOP	4.16	3.33	2.59
SN75LVDS84ADGGR	296-6668-1-ND	Flatlink™ Transmitter	48-TSSOP	4.37	3.50	2.72
SN75LVDS84ADGGR	296-6668-2-ND	Flatlink™ Transmitter	48-TSSOP	4948.00/2,000		
SN75LVDS86ADGG	296-1998-5-ND	Flatlink™ Receiver	48-TSSOP	4.37	3.50	2.72
SN75LVDS86ADGGR	296-6671-1-ND	Flatlink™ Receiver	48-TSSOP	4.37	3.50	2.72
SN75LVDS86ADGGR	296-6671-2-ND	Flatlink™ Receiver	48-TSSOP	4948.00/2,000		
SN75LVDS86DGG	296-6672-5-ND	Flatlink™ Receiver	48-TSSOP	4.05	3.24	2.52
SN75LVDS88BPFD	296-6673-5-ND	TFT LCD-Panel Timing Controller with LVDS Interface	100-QFP	7.40	5.92	5.00
SN75LVDS050D	296-12321-5-ND	Dual Low Volt. Diff. Driver/Rcvr.	16-SOIC	3.83	3.06	2.38
SN75LVDS051D	296-12322-5-ND	Dual Low Volt. Diff. Driver/Rcvr.	16-SOIC	3.83	3.06	2.38
SN75LVDS179D	296-12323-5-ND	Low Volt. Diff. Driver/Receiver	8-SOIC	2.32	1.86	1.45
SN75LVDS180D	296-12324-5-ND	Low Volt. Diff. Driver/Receiver	14-SOIC	2.32	1.86	1.45
SN75LVDS386DGG	296-9975-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.50	6.80	5.74
SN75LVDS386DGGR	296-9975-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.50	6.80	5.74
SN75LVDS386DGGR	296-9975-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	10626.00/2,000		
SN75LVDS387DGG	296-2367-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	8.50	6.80	5.74
SN75LVDS389DBT	296-2369-5-ND	8-Ch., High Speed Diff. Driver	38-TSSOP	5.60	4.49	3.49
SN75LVDS9637D	296-12327-5-ND	Dual HS Differential Receiver	8-SOIC	2.40	1.92	1.44
SN75LVDS9638D	296-12328-5-ND	Dual HS Differential Driver	8-SOIC	2.40	1.92	1.44

LVDT

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65LVDT2D	296-12140-5-ND	High Speed Diff. Line Receiver	8-SOIC	1.45	1.16	.87
SN65LVDT2DBVR	296-6896-1-ND	High Speed Diff. Line Receiver	SOT-23-5	1.45	1.16	.87
SN65LVDT2DBVR	296-6896-2-ND	High Speed Diff. Line Receiver	SOT-23-5	2226.00/3,000		
SN65LVDT14PW	296-12736-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	4.93	3.95	3.07
SN65LVDT32BDR	296-6897-1-ND	Quad LVDS Receiver	16-SOP	5.26	4.21	3.56
SN65LVDT32BDR	296-6897-2-ND	Quad LVDS Receiver	16-SOP	8152.50/2,500		
SN65LVDT33D	296-9749-5-ND	Quad, High Speed Diff. Receiver	16-SOP	4.39	3.51	2.73
SN65LVDT33PW	296-9750-5-ND	Quad, High Speed Diff. Receiver	16-TSSOP	4.39	3.51	2.73
SN65LVDT34D	296-9751-5-ND	Dual, High Speed Diff. Receiver	8-SOP	2.66	2.13	1.66
SN65LVDT41PW	296-12738-5-ND	High Speed Differential Driver/Receiver	20-TSSOP	4.93	3.95	3.07
SN65LVDT122D	296-13652-5-ND	1.5Gbps 2x2 LVDS Crosspoint Switch	16-SOIC	8.36	6.69	5.65
SN65LVDT122PW	296-13653-5-ND	1.5Gbps 2x2 LVDS Crosspoint Switch	16-TSSOP	8.36	6.69	5.65
SN65LVDT348D	296-12737-5-ND	Quad, High Speed Differential Receiver	16-SOIC	5.18	4.15	3.50
SN65LVDT348PW	296-12650-5-ND	Quad, High Speed Differential Receiver	16-TSSOP	5.18	4.15	3.50
SN65LVDT352PW	296-12651-5-ND	Quad, High Speed Differential Receiver	16-TSSOP	5.30	4.24	3.58
SN65LVDT386DGG	296-2360-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.78	7.83	6.61
SN65LVDT386DGGR	296-2360-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.78	7.83	6.61
SN65LVDT386DGGR	296-2360-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	12226.00/2,000		
SN65LVDT388ADBT	296-6899-5-ND	Octal LVDS Receiver	38-TSSOP	5.72	4.58	3.87
SN65LVDT390D	296-6900-5-ND	High Speed Differential Line Receiver	16-SOP	3.65	2.92	2.27
SN65LVDT390PW	296-6901-5-ND	High Speed Differential Line Receiver	16-SOP	3.65	2.92	2.27
SN65LVDT3486BDR	296-6898-1-ND	Quad LVDS Receiver	16-SOP	5.26	4.21	3.56
SN65LVDT3486BDR	296-6898-2-ND	Quad LVDS Receiver	16-SOP	8152.50/2,500		
SN65LVDT9637BDR	296-6902-1-ND	Dual LVDS Receiver	8-SOP	5.11	4.09	3.18
SN65LVDT9637BDR	296-6902-2-ND	Dual LVDS Receiver	8-SOP	7150.00/2,500		
SN75LVDT386DGG	296-2370-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.50	6.80	5.74
SN75LVDT386DGGR	296-2370-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.50	6.80	5.74
SN75LVDT386DGGR	296-2370-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	10626.00/2,000		

(Continued)

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RS422 / RS423 / RS485

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AM26C31CD	296-6781-5-ND	Quad Differential Line Driver	16-SOP	.96	.72	.54
AM26C31CDBR	296-6782-1-ND	Quad Differential Line Driver	16-SOP	.96	.72	.54
AM26C31CDBR	296-6782-2-ND	Quad Differential Line Driver	16-SOP	638.00/2,000		
AM26C31CN	296-6783-5-ND	Quad Differential Line Driver	16-Dip	.96	.72	.54
AM26C31ID	296-6784-5-ND	Quad Differential Line Driver	16-SOIC	.81	.68	.54
AM26C31IN	296-6785-5-ND	Quad Differential Line Driver	16-Dip	.81	.68	.54
AM26C31QD	296-13867-5-ND	Quad Differential Line Driver *NEW!*	16-SOP	2.95	2.36	1.84
AM26C32CD	296-6786-5-ND	Quad Diff. Line Receiver	16-SOP	.96	.72	.54
AM26C32CN	296-6787-5-ND	Quad Diff. Line Receiver	16-Dip	.96	.72	.54
AM26C32ID	296-6788-5-ND	Quad Diff. Line Receiver	16-SOIC	.81	.68	.54
AM26C32IDR	296-14471-1-ND	Quad Diff. Line Receiver *NEW!*	16-SOIC	.81	.68	.54
AM26C32IDR	296-14471-2-ND	Quad Diff. Line Receiver *NEW!*	16-SOIC	877.50/2,500		
AM26C32IN	296-6789-5-ND	Quad Diff. Line Receiver	16-Dip	.81	.68	.54
AM26C32QD	296-13868-5-ND	Quad Diff. Line Receiver *NEW!*	16-SOP	2.95	2.36	1.84
AM26LS31CD	296-1010-5-ND	Quad Differential Line Driver	16-SOIC	.88	.66	.50
AM26LS31CDR	296-1010-1-ND	Quad Differential Line Driver	16-SOIC	.88	.66	.50
AM26LS31CDR	296-1010-2-ND	Quad Differential Line Driver	16-SOIC	715.00/2,500		
AM26LS31CN	296-1374-5-ND	Quad Differential Line Driver	16-Dip	.88	.66	.50
AM26LS32ACD	296-1011-5-ND	Quad Differential Line Receiver	16-SOP	.88	.66	.50
AM26LS32ACDR	296-1011-1-ND	Quad Differential Line Receiver	16-SOP	.88	.66	.50
AM26LS32ACDR	296-1011-2-ND	Quad Differential Line Receiver	16-SOP	715.00/2,500		
AM26LS32ACN	296-1376-5-ND	Quad Differential Line Receiver	16-Dip	.88	.66	.50
AM26LS32ACNSR	296-6790-1-ND	Quad Differential Line Receiver	16-SOP	.88	.66	.50
AM26LS32ACNSR	296-6790-2-ND	Quad Differential Line Receiver	16-SOP	586.00/2,000		
AM26LS32AIDR	296-13065-1-ND	Quad Differential Line Receiver	16-SOIC	.75	.63	.50
AM26LS32AIDR	296-13065-2-ND	Quad Differential Line Receiver	16-SOIC	812.50/2,500		
AM26LS32AIN	296-13066-5-ND	Quad Differential Line Receiver	16-Dip	.75	.63	.50
AM26LS33ACD	296-6791-5-ND	Quad Diff. Line Receiver	16-SOP	.93	.78	.62
AM26LS33ACDR	296-14473-1-ND	Quad Diff. Line Receiver *NEW!*	16-SOIC	.93	.78	.62
AM26LS33ACDR	296-14473-2-ND	Quad Diff. Line Receiver *NEW!*	16-SOIC	1007.50/2,500		
AM26LS33ACN	296-6792-5-ND	Quad Diff. Line Receiver	16-Dip	.93	.78	.62
AM26LV31CD	296-6793-5-ND	Quad Differential Line Driver	16-SOP	1.20	1.00	.80
AM26LV32CD	296-6794-5-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
AM26LV32CDR	296-6794-1-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
AM26LV32CNSR	296-6796-1-ND	Quad Differential Line Receiver	16-SOP	1.20	1.00	.80
AM26LV32CNSR	296-6796-2-ND	Quad Differential Line Receiver	16-SOP	1064.00/2,000		
AM26S10CD	296-6797-5-ND	Quad Bus Transceiver	16-SOP	.90	.75	.60
AM26S10CN	296-6798-5-ND	Quad Bus Transceiver	16-Dip	.90	.75	.60
M26LV32CDR	296-6794-2-ND	Quad Differential Line Receiver	16-SOP	1300.00/2,500		
MAX232DR	296-14619-1-ND	Dual RS232 Driver/Receiver *NEW!*	16-SOIC	.90	.75	.60
MAX232DR	296-14619-2-ND	Dual RS232 Driver/Receiver *NEW!*	16-SOIC	975.00/2,500		
MAX232DWR	296-14620-1-ND	Dual RS232 Driver/Receiver *NEW!*	16-SOIC	.90	.75	.60
MAX232DWR	296-14620-2-ND	Dual RS232 Driver/Receiver *NEW!*	16-SOIC	798.00/2,000		
MAX232IDWR	296-14621-1-ND	Dual RS232 Driver/Receiver *NEW!*	16-SOIC	1.05	.88	.70
MAX232IDWR	296-14621-2-ND	Dual RS232 Driver/Receiver *NEW!*	16-SOIC	932.00/2,000		
MC3486D	296-7037-5-ND	Tri-St. Quad Diff. Line Receiver	16-SOP	.96	.72	.54
MC3486DR	296-14624-1-ND	Tri-St. Quad Diff. Line Receiver *NEW!*	16-SOIC	.96	.72	.54
MC3486DR	296-14624-2-ND	Tri-St. Quad Diff. Line Receiver *NEW!*	16-SOIC	780.00/2,500		
MC3486N	296-7038-5-ND	Tri-St. Quad Diff. Line Receiver	16-Dip	.96	.72	.54
MC3487DR	296-14625-1-ND	Quad Differential Line Driver *NEW!*	16-SOIC	.96	.72	.54
MC3487DR	296-14625-2-ND	Quad Differential Line Driver *NEW!*	16-SOIC	780.00/2,500		
MC3487N	296-1408-5-ND	Quad Differential Line Driver	16-Dip	.96	.72	.54
SN65176BDR	296-14636-1-ND	Diff. Bus Transceiver *NEW!*	8-SOIC	1.73	1.38	1.04
SN65176BDR	296-14636-2-ND	Diff. Bus Transceiver *NEW!*	8-SOIC	2207.50/2,500		
SN65C1167NSR	296-9699-1-ND	Dual Differential Driver/Rcvr.	16-SOP	2.93	2.34	1.82
SN65C1167NSR	296-9699-2-ND	Dual Differential Driver/Rcvr.	16-SOP	3316.00/2,000		
SN65C1168PWR	296-14348-1-ND	Dual Diff. Driver/Rcvr *NEW!*	16-TSSOP	1.55	1.24	.93
SN65C1168PWR	296-14348-2-ND	Dual Diff. Driver/Rcvr *NEW!*	16-TSSOP	1612.00/2,000		
SN65HVD05D	296-12988-5-ND	High Output RS-485 Transceiver	8-SOIC	2.72	2.18	1.70
SN65HVD06D	296-12989-5-ND	High Output RS-485 Transceiver	8-SOIC	2.61	2.09	1.63
SN65HVD07D	296-12990-5-ND	High Output RS-485 Transceiver	8-SOIC	2.50	2.00	1.56
SN65HVD08D	296-14010-5-ND	Wide Supply Range RS-485 Transceiver *NEW!*	8-SOIC	4.07	3.26	2.54
SN65HVD08P	296-14011-5-ND	Wide Supply Range RS-485 Transceiver *NEW!*	8-Dip	4.07	3.26	2.54
SN65HVD10D	296-12645-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.80	3.05	2.37
SN65HVD10QD	296-14012-5-ND	3.3V RS-485 Transceiver *NEW!*	8-SOIC	4.50	3.60	2.80
SN65HVD11D	296-12646-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD11QD	296-14013-5-ND	3.3V RS-485 Transceiver *NEW!*	8-SOIC	4.28	3.42	2.66
SN65HVD12D	296-12647-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.60	2.88	2.24
SN65HVD12P	296-13862-5-ND	3.3V RS-485 Transceiver *NEW!*	8-Dip	3.60	2.88	2.24
SN65HVD20D	296-14184-5-ND	Extended Common-Mode RS485 Transceiver *NEW!*	8-SOIC	3.83	3.06	2.38
SN65HVD21D	296-14185-5-ND	Extended Common-Mode RS485 Transceiver *NEW!*	8-SOIC	3.83	3.06	2.38
SN65HVD22D	296-14186-5-ND	Extended Common-Mode RS485 Transceiver *NEW!*	8-SOIC	3.83	3.06	2.38
SN65HVD230DR	296-11654-1-ND	3.3V CAN Transceiver with Standby Mode	8-SOIC	3.67	2.94	2.29
SN65HVD230DR	296-11654-2-ND	3.3V CAN Transceiver with Standby Mode	8-SOIC	5135.00/2,500		
SN65HVD230QD	296-13123-5-ND	3.3V CAN Transceiver with Standby Mode	8-SOP	4.03	3.23	2.51
SN65HVD231D	296-12206-5-ND	3.3V CAN Transceiver with Sleep Mode	8-SOIC	3.67	2.94	2.29
SN65HVD231QD	296-12704-5-ND	3.3V CAN Transceiver with Sleep Q100 Qualified	8-SOIC	4.03	3.23	2.51
SN65HVD232QD	296-12705-5-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	3.74	2.99	2.33
SN65HVD232D	296-12282-5-ND	3.3V CAN Transceiver	8-SOIC	3.42	2.74	2.13
SN65HVD233D	296-14639-5-ND	3.3V CAN Transceiver *NEW!*	8-SOIC	3.85	3.08	2.40
SN65HVD251D	296-13816-5-ND	5V CAN Transceiver with Standby Mode *NEW!*	8-SOIC	1.80	1.44	1.08
SN65HVD3082ED	296-14640-5-ND	LP RS-485 Transceiver *NEW!*	8-SOIC	1.47	1.23	.98
SN65LBC031D	296-9700-5-ND	High Speed CAN Transceiver	8-SOP	3.20	2.56	1.99
SN65LBC031QD	296-9701-5-ND	High Speed CAN Transceiver	8-SOP	2.99	2.40	1.87
SN65LBC031QDR	296-9701-1-ND	High Speed CAN Transceiver	8-SOP	2.99	2.40	1.87
SN65LBC031QDR	296-9701-2-ND	High Speed CAN Transceiver	8-SOP	4190.00/2,500		
SN65LBC170DB	296-9702-5-ND	Triple Differential Transceiver	16-SSOP	6.86	5.49	4.64
SN65LBC170DW	296-9703-5-ND	Triple Differential Transceiver	20-SOP	6.86	5.49	4.64
SN65LBC171DB	296-9704-5-ND	Triple Differential Transceiver	16-SSOP	6.86	5.49	4.64
SN65LBC171DW	296-9705-5-ND	Triple Differential Transceiver	20-SOP	6.86	5.49	4.64
SN65LBC172ADW	296-9706-5-ND	Quad LP Differential Line Driver	20-SOP	4.70	3.77	2.93
SN65LBC172AN	296-12283-5-ND	Quad LP Differential Line Driver	16-Dip	4.70	3.77	2.93
SN65LBC172DW	296-9707-5-ND	Quad LP Differential Line Driver	20-SOP	3.58	2.87	2.23
SN65LBC172N	296-9708-5-ND	Quad LP Differential Line Driver	16-Dip	3.58	2.87	2.23
SN65LBC173AD	296-9709-5-ND	Quad LP Differential Line Receiver	16-SOP	2.90	2.33	1.81
SN65LBC173AN	296-9710-5-ND	Quad LP Differential Line Receiver	16-Dip	2.90	2.33	1.81
SN65LBC173D	296-9711-5-ND	Quad LP Differential Line Receiver	16-SOP	2.45	1.96	1.47
SN65LBC173N	296-9712-5-ND	Quad LP Differential Line Receiver	16-Dip	2.45	1.96	1.47
SN65LBC174ADW	296-9713-5-ND	Quad LP Differential Line Driver	20-SOP	4.93	3.95	3.07
SN65LBC174AN	296-12284-5-ND	Quad LP Differential Line Driver	16-Dip	4.93	3.95	3.07
SN65LBC174DW	296-9714-5-ND	Quad LP Differential Line Driver	20-SOP	3.74	2.99	2.33
SN65LBC174N	296-9715-5-ND	Quad LP Differential Line Driver	16-Dip	3.74	2.99	2.33
SN65LBC175AD	296-9716-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.75	2.20	1.71
SN65LBC175AN	296-13124-5-ND	Quad RS-485 Diff. Line Receiver	16-Dip	2.75	2.20	1.71
SN65LBC175D	296-9717-5-ND	Quad LP Differential Line Receiver	16-SOP	2.33	1.86	1.40
SN65LBC175DW	296-12460-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.33	1.86	1.40
SN65LBC175N	296-9718-5-ND	Quad LP Differential Line Receiver	16-Dip	2.33	1.86	1.40
SN65LBC176AD	296-9719-5-ND	Quad LP Differential Bus Transceiver	8-SOP	2.32	1.86	1.45
SN65LBC176AP	296-9720-5-ND	Quad LP Differential Bus Transceiver	8-Dip	2.32	1.86	1.45
SN65LBC176AQD	296-9721-5-ND	Quad LP Differential Bus Transceiver	8-SOP	4.39	3.51	2.73
SN65LBC176D	296-9722-5-ND	Quad LP Differential Bus Transceiver	8-SOP	1.95	1.56	1.17
SN65LBC176P	296-9723-5-ND	Quad LP Differential Bus Transceiver	8-Dip	1.95	1.56	1.17
SN65LBC176QD	296-9724-5-ND	Quad LP Differential Bus Transceiver	8-SOP	2.43	1.95	1.52
SN65LBC179AD	296-9725-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOP	2.40	1.92	1.44
SN65LBC179AP	296-9726-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	2.40	1.92	1.44
SN65LBC179D	296-9727-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOP	1.83	1.46	1.10
SN65LBC179P	296-9728-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	1.83	1.46	1.10
SN65LBC180AD	296-9729-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOP	2.41	1.93	1.50
SN65LBC180AN	296-9730-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.41	1.93	1.50
SN65LBC180D	296-9731-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOP	2.03	1.62	1.22
SN65LBC180N	296-9732-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.03	1.62	1.22
SN65LBC182D	296-12167-5-ND	Differential Bus Transceiver	8-SOIC	2.05	1.64	1.23
SN65LBC182P	296-12734-5-ND	Differential Bus Transceiver	8-Dip	2.05	1.64	1.23
SN65LBC184D	296-9733-5-ND	Differential Xcvr. with TVS Protection	8-SOP	2.43	1.94	1.46
SN65LBC184P	296-2343-5-ND	Differential Xcvr. with TVS Protection	8-Dip	2.43	1.94	1.46
SN65176BD	296-9693-5-ND	Differential Bus Transceiver	8-SOP	1.73	1.38	1.04
SN65176BP	296-1415-5-ND	Differential Bus Transceiver	8-Dip	1.73	1.38	1.04
SN75HVD12P	296-14047-5-ND	3.3V RS-485 Transceiver *NEW!*	8-Dip	3.26	2.61	2.03
SN75LBC031D	296-6864-5-ND	High Speed Transceiver	8-SOP	2.81	2.25	1.75
SN75LBC172DW	296-6865-5-ND	Quad LP Differential Line Driver	20-SOP	3.24	2.60	2.02
SN75LBC172N	296-6866-5-ND	Quad LP Differential Line Driver	16-Dip	3.24	2.60	2.02
SN75LBC173D	296-6867-5-ND	Quad LP Differential Line Receiver	16-SOP	2.23	1.78	1.34
SN75LBC173N	296-6868-5-ND	Quad LP Differential Line Receiver	16-Dip	2.23	1.78	1.34
SN75LBC174DW	296-6869-5-ND	Quad LP Differential Line Driver	20-SOP	3.40	2.72	2.12
SN75LBC174N	296-6870-5-ND	Quad LP Differential Line Driver	16-Dip	3.40	2.72	2.12
SN75LBC175D	296-6871-5-ND	Quad LP Differential Line Receiver	16-SOP	2.10	1.68	1.26
SN75LBC175N	296-6872-5-ND	Quad LP Differential Line Receiver	16-Dip	2.10	1.68	1.26
SN75LBC176AD	296-6873-5-ND	Quad LP Differential Bus Transceiver	8-SOP	2.40	1.92	1.44
SN75LBC176AP	296-6874-5-ND	Differential Bus Transceiver	8-Dip	2.40	1.92	1.44
SN75LBC176D	296-1279-5-ND	Differential Bus Transceiver	8-SOIC	1.78	1.42	1.07
SN75LBC176DR	296-1279-1-ND	Differential Bus Transceiver	8-SOIC	1.78	1.42	1.07
SN75LBC176DR	296-1279-2-ND	Differential Bus Transceiver	8-SOIC	2272.50/2,500		
SN75LBC176P	296-6875-5-ND	Differential Bus Transceiver	8-Dip	1.78	1.42	1.07
SN75LBC179AD	296-6876-5-ND	LP Differential Line Driver/Rcvr Pairs	8-SOP	2.23	1.78	1.34
SN75LBC179AP	296-6877-5-ND	LP Differential Line Driver/Rcvr Pairs	8-Dip	2.23	1.78	1.34
SN75LBC179D	296-6878-5-ND	LP Differential Line Driver/Rcvr Pairs	8-SOP	1.65	1.32	.99
SN75LBC179P	296-6879-5-ND	LP Differential Line Driver/Rcvr Pairs	8-Dip	1.65	1.32	.99
SN75LBC180AD	296-6880-5-ND	LP Differential Line Driver/Rcvr Pairs	14-SOP	2.25	1.80	1.40
SN75LBC180AN	296-6881-5-ND	LP Differential Line Driver/Rcvr Pairs	14-Dip	2.25	1.80	1.40
SN75LBC180D	296-6882-5-ND	LP Differential Line Driver/Rcvr Pairs	14-SOP	1.85	1.48	1.11
SN75LBC180N	296-6883-5-ND	LP Differential Line Driver/Rcvr Pairs	14-Dip	1.85	1.48	1.11
SN75LBC182D	296-11656-5-ND	Differential Bus Transceiver	8-SOIC	1.88	1.50	1.13
SN75LBC184D	296-2364-5-ND	Differential Xcvr. with TVS Protection	8-SOIC	2.20	1.76	1.32
SN75LBC184P	296-6884-5-ND	Differential Xcvr. with TVS Protection	8-SOP	2.20	1.76	1.32
SN75LBC187DBR	296-6885-1-ND	Multichannel EIA-232 Driver/Receiver	28-SOP	4.50	3.60	2.80
SN75LBC187DBR	296-6885-2-ND	Multichannel EIA-232 Driver/Receiver	28-SOP	5100.00/2,000		
SN75LBC241DW	296-6886-5-ND	LP LinBiCMOS Multiple Drivers and Receivers	28-SOP	2.40	1.92	1.44
SN75LBC771DW	296-6887-5-ND	GeoPort™ Transceiver	20-SOP	2.40	1.92	1.44
SN75LBC776DW	296-6890-5-ND	Single-Chip GeoPort™ Transceiver	20-SOP	4.19	3.35	2.61
SN75LBC777DW	296-6891-5-ND	Single-Chip Geoport/AppleTalk™ Transceiver	20-SOP	3.22	2.58	2.01
SN75LBC784DWR	296-6892-1-ND	Quad RS-423-B Driver/Receiver	28-SOP	4.66	3.73	2.90
SN75LBC784DWR	296-6892-2-ND	Quad RS-423-B Driver/Receiver	28-SOP	2639.00/1,000		
SN75LBC786DW	296-6893-5-ND	Quad RS-423-B Driver/Receiver with Loopback	28-SOP	8.96	8.07	7.16
SN75LBC968DL	296-6894-5-ND	9-Channel Bus Transceiver with Active Termination	56-SOP	14.41	12.98	11.51
SN75LBC978DL	296-6895-5-ND	9-Channel Differential Transceiver	56-SOP	20.91	19.52	18.13
SN75LBC978DLR	296-6895-1-ND	9-Channel Differential Transceiver	56-SOP	20.91	19.52	18.13
SN75LBC978DLR	296-6895-2-ND	9-Channel Differential Transceiver	56-SOP	17216.00/1,000		
SN75107AD	296-6799-5-ND	Dual Line Receiver	14-SOIC	1.32	1.10	.88
SN75107AN	296-6800-5-ND	Dual Line Receiver	14-Dip	1.32	1.10	.88
SN75107BD	296-6802-5-ND	Dual Line Receiver	14-SOIC	.68	.51	.39
SN75107BN	296-6803-5-ND	Dual Line Receiver	14-Dip	.68	.51	.39
SN75110AD	296-6804-5-ND	Dual Line Driver	14-SOP	.68	.51	.39
SN75110AN	296-6805-5-ND	Dual Line Driver	14-Dip	.68	.51	.39
SN75112D	296-6806-5-ND	Dual Line Driver	14-SOIC	1.30	1.04	.78
SN75112DR	296-6806-1-ND	Dual Line Driver	14-SOIC	1.30	1.04	.78
SN75112DR	296-6806-2-ND	Dual Line Driver	14-SOIC	1665.00/2,500		
SN75112N	296-6807-5-ND	Dual Line Driver	14-Dip	1.30	1.04	.78
SN75113N	296-6809-5-ND	Dual Differential Line Driver	16-Dip	1.68	1.34	1.01
SN75114N	296-6811-5-ND	Dual Differential Line Driver	16-Dip	1.88	1.50	1.13
SN75115D	296-6812-5-ND	Dual Differential Line Receiver	16-SOIC	2.30	1.84	1.38
SN75115N	296-6813-5-ND	Dual Differential Line Receiver	16-Dip	2.30	1.84	1.38
SN75116N	296-6814-5-ND	Differential Line Transceiver	16-Dip	3.71	2.97	2.31
SN75117P	296-6820-5-ND	Differential Line Transceiver *NEW!*	8-Dip	3.94	3.15	2.45
SN75118N	296-6821-5-ND	Differential Line Transceiver	16-Dip	3.60	2.88	2.24
SN75119P	296-6822-5-ND	Differential Line Transceiver	8-Dip	3.94	3.15	2.45
SN75121N	296-6823-5-ND	Dual Line Driver	16-Dip	1.88	1.50	1.13
SN75123N	296-6825-5-ND	Dual Line Driver *NEW!*	16-Dip	2.25	1.80	1.35
SN75124N	296-6826-5-ND	Triple Line Receiver	16-Dip	2.15	1.72	1.29
SN75138N	296-6828-5-ND	Quad Bus Transceiver	16-Dip	2.00	1.60	1.20

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75140P	296-12184-5-ND	Dual Line Receiver	8-Dip	2.25	1.80	1.40
SN75150D	296-6830-5-ND	Dual Line Driver	8-SOP	.90	.75	.60
SN75150P	296-6831-5-ND	Dual Line Driver	8-Dip	.90	.75	.60
SN75154D	296-6832-5-ND	Quad Differential Line Receiver	16-SOIC	.90	.75	.60
SN75154N	296-6833-5-ND	Quad Differential Line Receiver	16-Dip	.90	.75	.60
SN75155D	296-6835-5-ND	Line Driver and Receiver	8-SOP	1.26	1.05	.84
SN75155P	296-6836-5-ND	Line Driver and Receiver	8-Dip	1.26	1.05	.84
SN75157D	296-6837-5-ND	Dual Differential Line Receiver	8-SOIC	1.80	1.44	1.08
SN75157P	296-6838-5-ND	Dual Differential Line Receiver	8-Dip	1.80	1.44	1.08
SN75158D	296-6839-5-ND	Dual Differential Line Driver	8-SOP	4.50	3.60	2.80
SN75158P	296-6840-5-ND	Dual Differential Line Driver	8-Dip	4.50	3.60	2.80
SN75158PSR	296-6841-1-ND	Dual Differential Line Driver	8-SOP	4.50	3.60	2.80
SN75158PSR	296-6841-2-ND	Dual Differential Line Driver	8-SOP	5100.00/2,000		
SN75159D	296-6842-5-ND	Dual Differential Line Driver	14-SOIC	4.28	3.42	2.66
SN75159N	296-6843-5-ND	Dual Differential Line Driver	14-Dip	4.28	3.42	2.66
SN75160BDW	296-6844-5-ND	Octal General Purpose Interface Bus Transceiver	20-SOIC	4.05	3.24	2.52
SN75160BN	296-6845-5-ND	Octal General Purpose Interface Bus Transceiver	20-Dip	4.05	3.24	2.52
SN75161BDW	296-6846-5-ND	Octal General Purpose Interface Bus Transceiver	20-SOP	4.05	3.24	2.52
SN75161BN	296-6847-5-ND	Octal General Purpose Interface Bus Transceiver	20-Dip	4.05	3.24	2.52
SN75162BDW	296-6848-5-ND	Octal General Purpose Interface Bus Transceiver	24-SOP	4.73	3.78	2.94
SN75172DW	296-6849-5-ND	Quad Differential Line Driver	20-SOP	1.90	1.52	1.14
SN75172N	296-6850-5-ND	Quad Differential Line Driver	16-Dip	1.90	1.52	1.14
SN751730D	296-6851-5-ND	Triple Line Driver/Receiver	16-SOP	3.60	2.88	2.24
SN751730N	296-6852-5-ND	Triple Line Driver/Receiver	16-Dip	3.60	2.88	2.24
SN75173D	296-6853-5-ND	Quad Differential Line Receiver	16-SOIC	2.00	1.60	1.20
SN75173N	296-6854-5-ND	Quad Differential Line Receiver	16-Dip	2.00	1.60	1.20
SN75174DWR	296-6855-1-ND	Quad Differential Line Driver	20-SOP	1.30	1.04	.78
SN75174DWR	296-6855-2-ND	Quad Differential Line Driver	20-SOP	1352.00/2,000		
SN75174N	296-1735-5-ND	Quad Differential Line Driver	16-Dip	1.30	1.04	.78
SN75175D	296-6856-5-ND	Quad Differential Line Receiver	16-SOP	1.08	.90	.72
SN75175N	296-1736-5-ND	Quad Differential Line Receiver	16-Dip	1.08	.90	.72
SN75176AD	296-6857-5-ND	Differential Bus Transceiver	8-SOP	.75	.63	.50
SN75176AP	296-1737-5-ND	Differential Bus Transceiver	8-Dip	.75	.63	.50
SN75176BD	296-1275-5-ND	Differential Bus Transceiver	8-SOIC	.88	.66	.50
SN75176BDR	296-1275-1-ND	Differential Bus Transceiver	8-SOIC	.88	.66	.50
SN75176BDR	296-1275-2-ND	Differential Bus Transceiver	8-SOIC	715.00/2,500		
SN75176BP	296-1739-5-ND	Differential Bus Transceiver	8-Dip	.88	.66	.50
SN75178BP	296-6858-5-ND	Differential Bus Repeaters	8-Dip	1.88	1.50	1.13
SN75179BD	296-6860-5-ND	Differential Driver/Receiver Pair	8-SOP	1.29	1.08	.86
SN75179BP	296-6861-5-ND	Differential Driver/Receiver Pair	8-Dip	1.29	1.08	.86
SN75182N	296-6862-5-ND	Dual Differential Line Receiver	14-Dip	1.25	1.00	.75
SN75183N	296-6863-5-ND	Quad Differential Line Driver	14-Dip	2.00	1.60	1.20
SN75976A1DGG	296-9925-5-ND	9-Ch., RS-485 Diff. Transceiver	56-TSSOP	14.78	13.31	11.80
SN75976A1DL	296-9926-5-ND	9-Ch., RS-485 Diff. Transceiver	56-SSOP	14.78	13.31	11.80
SN75976A2DGG	296-2363-5-ND	9-Ch., RS-485 Diff. Transceiver	56-TSSOP	18.30	17.08	15.86
SN751177N	296-6816-5-ND	Dual Differential Driver/Receiver	16-Dip	3.31	2.65	2.06
SN751177NSR	296-6817-1-ND	Dual Differential Driver/Receiver	16-SOP	3.31	2.65	2.06
SN751177NSR	296-6817-2-ND	Dual Differential Driver/Receiver	16-SOP	3748.00/2,000		
SN751178N	296-6818-5-ND	Dual Differential Driver/Receiver	16-Dip	3.31	2.65	2.06
SN751178NSR	296-6819-1-ND	Dual Differential Driver/Receiver	16-SOP	3.31	2.65	2.06
SN751178NSR	296-6819-2-ND	Dual Differential Driver/Receiver	16-SOP	3748.00/2,000		
TL3695D	296-10171-5-ND	Differential Bus Transceiver	8-SOIC	1.25	1.00	.75
TL3695P	296-10172-5-ND	Differential Bus Transceiver	8-Dip	1.25	1.00	.75
UA9637ACD	296-11149-5-ND	Dual Differential Line Receiver	8-SOIC	.90	.75	.60
UA9639CP	296-11150-5-ND	Dual Differential Line Receiver	8-Dip	.90	.75	.60

RS-232

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
GD75232DBR	296-6947-1-ND	Multiple RS-232 Driver/Receiver	20-SOP	.48	.36	.27
GD75232DBR	296-6947-2-ND	Multiple RS-232 Driver/Receiver	20-SOP	320.00/2,000		
GD75232DW	296-6948-5-ND	Multiple RS-232 Driver/Receiver	20-SOP	.48	.36	.27
GD75232DWR	296-6948-1-ND	Multiple RS-232 Driver/Receiver	20-SOP	.48	.36	.27
GD75232DWR	296-6948-2-ND	Multiple RS-232 Driver/Receiver	20-SOP	320.00/2,000		
GD75232PWR	296-6950-1-ND	Multiple RS-232 Driver/Receiver	20-SOP	.48	.36	.27
GD75232PWR	296-6950-2-ND	Multiple RS-232 Driver/Receiver	20-SOP	320.00/2,000		
GD75323DW	296-6951-5-ND	Multiple RS-232 Driver/Receiver	20-SOP	.56	.42	.32
LT1030CD	296-9589-5-ND	Quad Low Power Line Driver	14-SOP	1.48	1.18	.89
LT1030CN	296-1401-5-ND	Quad Low Power Line Driver	14-Dip	1.48	1.18	.89
MAX232D	296-6936-5-ND	Dual EIA-232 Driver/Receiver	16-SOP	.90	.75	.60
MAX232DW	296-6937-5-ND	Dual EIA-232 Driver/Receiver	16-SOP	.90	.75	.60
MAX232ID	296-6938-5-ND	Dual EIA-232 Driver/Receiver	16-SOP	1.05	.88	.70
MAX232IDW	296-6939-5-ND	Dual EIA-232 Driver/Receiver	16-SOP	1.05	.88	.70
MAX232IN	296-6940-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	1.05	.88	.70
MAX232N	296-1402-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	.90	.75	.60
MAX3221CDBR	296-9593-1-ND	1-Channel RS-232 Driver/Receiver	16-SSOP	1.38	1.10	.83
MAX3221CDBR	296-9593-2-ND	1-Channel RS-232 Driver/Receiver	16-SSOP	1430.00/2,000		
MAX3221CPWR	296-9594-1-ND	1-Channel RS-232 Driver/Receiver	16-TSSOP	1.38	1.10	.83
MAX3221CPWR	296-9594-2-ND	1-Channel RS-232 Driver/Receiver	16-TSSOP	1430.00/2,000		
MAX3221IDBR	296-9595-1-ND	1-Channel RS-232 Driver/Receiver	16-SSOP	1.50	1.20	.90
MAX3221IDBR	296-9595-2-ND	1-Channel RS-232 Driver/Receiver	16-SSOP	1560.00/2,000		
MAX3221IPWR	296-9596-1-ND	1-Channel RS-232 Driver/Receiver	16-TSSOP	1.50	1.20	.90
MAX3221IPWR	296-9596-2-ND	1-Channel RS-232 Driver/Receiver	16-TSSOP	1560.00/2,000		
MAX3222CDBR	296-13082-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.13	1.70	1.28
MAX3222CDBR	296-13082-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2210.00/2,000		
MAX3222CDWR	296-13083-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.13	1.70	1.28
MAX3222CDWR	296-13083-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2210.00/2,000		
MAX3222CPWR	296-13084-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.13	1.70	1.28
MAX3222CPWR	296-13084-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2210.00/2,000		
MAX3222IDBR	296-13085-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.25	1.80	1.40
MAX3222IDBR	296-13085-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2550.00/2,000		
MAX3222IDWR	296-13086-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.25	1.80	1.40
MAX3222IDWR	296-13086-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2550.00/2,000		
MAX3222IPWR	296-13087-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.25	1.80	1.40
MAX3222IPWR	296-13087-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2550.00/2,000		
MAX3223CDBR	296-13088-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1.75	1.40	1.05
MAX3223CDBR	296-13088-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1820.00/2,000		
MAX3223CDWR	296-13445-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1.75	1.40	1.05
MAX3223CDWR	296-13445-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1820.00/2,000		
MAX3223CPWR	296-13089-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1.75	1.40	1.05
MAX3223CPWR	296-13089-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1820.00/2,000		
MAX3223IDBR	296-13090-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.13	1.70	1.28
MAX3223IDBR	296-13090-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2210.00/2,000		
MAX3223IDWR	296-13091-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.13	1.70	1.28
MAX3223IDWR	296-13091-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2210.00/2,000		
MAX3223IPWR	296-13092-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.13	1.70	1.28
MAX3223IPWR	296-13092-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2210.00/2,000		
MAX3232CDBR	296-13093-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.88	1.50	1.13
MAX3232CDBR	296-13093-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1950.00/2,000		
MAX3232CDR	296-13094-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.88	1.50	1.13
MAX3232CDR	296-13094-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2400.00/2,500		
MAX3232CDWR	296-13095-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOP	1.88	1.50	1.13
MAX3232CDWR	296-13095-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOP	1950.00/2,000		
MAX3232CPWR	296-13096-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.88	1.50	1.13
MAX3232CPWR	296-13096-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1950.00/2,000		
MAX3232IDBR	296-13097-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	2.25	1.80	1.35
MAX3232IDBR	296-13097-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	2340.00/2,000		
MAX3232IDR	296-13098-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.25	1.80	1.35
MAX3232IDR	296-13098-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2880.00/2,500		
MAX3232IDWR	296-13099-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOP	2.25	1.80	1.35
MAX3232IDWR	296-13099-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOP	2340.00/2,000		
MAX3232IPWR	296-13100-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2.25	1.80	1.35
MAX3232IPWR	296-13100-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2340.00/2,000		
MAX3238CDBR	296-9597-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP	1.88	1.50	1.13
MAX3238CDBR	296-9597-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP	1950.00/2,000		
MAX3238CPWR	296-9598-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP	1.88	1.50	1.13
MAX3238CPWR	296-9598-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP	1950.00/2,000		
MAX3238IDBR	296-9599-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP	2.13	1.70	1.28
MAX3238IDBR	296-9599-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP	2210.00/2,000		
MAX3238IPWR	296-9600-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP	2.13	1.70	1.28
MAX3238IPWR	296-9600-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP	2210.00/2,000		
MAX3243CDBR	296-6941-1-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1.38	1.10	.83
MAX3243CDBR	296-6941-2-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1430.00/2,000		
MAX3243CDWR	296-6942-1-ND	Multiple RS-232 Driver/Receiver	28-SOIC	1.38	1.10	.83
MAX3243CDWR	296-6942-2-ND	Multiple RS-232 Driver/Receiver	28-SOIC	715.00/1,000		
MAX3243CPWR	296-6943-1-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243CPWR	296-6943-2-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1430.00/2,000		
MAX3243IDBR	296-6944-1-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1.75	1.40	1.05
MAX3243IDBR	296-6944-2-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1820.00/2,000		
MAX3243IDWR	296-6945-1-ND	Multiple RS-232 Driver/Receiver	28-SOIC	1.75	1.40	1.05
MAX3243IDWR	296-6945-2-ND	Multiple RS-232 Driver/Receiver	28-SOIC	910.00/1,000		
MAX3243IPWR	296-6946-1-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1.75	1.40	1.05
MAX3243IPWR	296-6946-2-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1820.00/2,000		
MC1488N	296-1404-5-ND	Quad Line Driver	14-Dip	.48	.36	.27
MC1489AN	296-9602-5-ND	Quad Line Receiver	14-Dip	.48	.36	.27
MC1489N	296-1405-5-ND	Quad Line Receiver	14-Dip	.48	.36	.27
SN65C1154N	296-11855-5-ND	Quad Low Power Driver/Receiver	20-Dip	4.28	3.42	2.66
SN65C3221DBR	296-13116-1-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2.97	2.38	1.85
SN65C3221DBR	296-13116-2-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	3366.00/2,000		
SN65C3221PWR	296-13117-1-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2.97	2.38	1.85
SN65C3221PWR	296-13117-2-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	3366.00/2,000		
SN65C3223DBR	296-13486-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3.51	2.81	2.19
SN65C3223DBR	296-13486-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3978.00/2,000		
SN65C3223DWR	296-13487-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	3.51	2.81	2.19
SN65C3223DWR	296-13487-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	3978.00/2,000		
SN65C3223PWR	296-13488-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3.51	2.81	2.19
SN65C3223PWR	296-13488-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3978.00/2,000		

(Continued)

TEXAS INSTRUMENTS DATA TRANSMISSION *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65C3238DBR	296-12733-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4.05	3.24	2.52
SN65C3238DBR	296-12733-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4590.00/2,000		
SN65C3238DWR	296-13118-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	4.05	3.24	2.52
SN65C3238DWR	296-13118-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	2295.00/1,000		
SN65C3238PWR	296-13119-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4.05	3.24	2.52
SN65C3238PWR	296-13119-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4590.00/2,000		
SN65C3243DBR	296-13120-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4.32	3.46	2.69
SN65C3243DBR	296-13120-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4896.00/2,000		
SN65C3243DWR	296-13121-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	4.32	3.46	2.69
SN65C3243DWR	296-13121-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	2448.00/1,000		
SN65C3243PWR	296-13122-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4.32	3.46	2.69
SN65C3243PWR	296-13122-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4896.00/2,000		
SN65C23243DGGR	296-13114-1-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	5.40	4.32	3.36
SN65C23243DGGR	296-13114-2-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	6120.00/2,000		
SN65C23243DLR	296-13115-1-ND	3-5.5V, Dual RS-232 Port	48-SSOP	5.40	4.32	3.36
SN65C23243DLR	296-13115-2-ND	3-5.5V, Dual RS-232 Port	48-SSOP	3060.00/1,000		
SN75C185DW	296-1753-5-ND	Low Power Multiple Driver/Receiver	20-SOIC	2.00	1.60	1.20
SN75C185N	296-9974-5-ND	Low Power Multiple Driver/Receiver	20-Dip	2.00	1.60	1.20
SN75C188D	296-6965-5-ND	Quad Low Power Line Driver	14-SOIC	.90	.75	.60
SN75C188DBR	296-6966-1-ND	Quad Low Power Line Driver	14-SSOP	.90	.75	.60
SN75C188DBR	296-6966-2-ND	Quad Low Power Line Driver	14-SSOP	798.00/2,000		
SN75C188N	296-1754-5-ND	Quad Low Power Line Driver	14-Dip	.90	.75	.60
SN75C189AD	296-1755-5-ND	Quad Low Power Line Receiver	14-SOIC	.92	.69	.52
SN75C189ADBR	296-6967-1-ND	Quad Low Power Line Receiver	14-SOP	.92	.69	.52
SN75C189ADBR	296-6967-2-ND	Quad Low Power Line Receiver	14-SOP	612.00/2,000		
SN75C189AN	296-1756-5-ND	Quad Low Power Line Receiver	14-Dip	.92	.69	.52
SN75C189D	296-6968-5-ND	Quad Low Power Line Receiver	14-SOP	.96	.72	.54
SN75C189N	296-6969-5-ND	Quad Low Power Line Receiver	14-Dip	.96	.72	.54
SN75C198D	296-6970-5-ND	Quad Low Power Line Drivers	14-SOP	2.81	2.25	1.75
SN75C1154DW	296-6958-5-ND	Quad Low Power Driver/Receiver	20-SOP	1.70	1.36	1.02
SN75C1154N	296-6959-5-ND	Quad Low Power Driver/Receiver	20-Dip	1.70	1.36	1.02
SN75C1167DBR	296-6960-1-ND	Dual Differential Driver/Receiver	16-SOP	1.25	1.00	.75
SN75C1167DBR	296-6960-2-ND	Dual Differential Driver/Receiver	16-SOP	1300.00/2,000		
SN75C1167N	296-6961-5-ND	Dual Differential Driver/Receiver	16-Dip	1.25	1.00	.75
SN75C1167NSR	296-6962-1-ND	Dual Differential Driver/Receiver	16-SOP	1.25	1.00	.75
SN75C1167NSR	296-6962-2-ND	Dual Differential Driver/Receiver	16-SOP	1300.00/2,000		
SN75C1168N	296-6963-5-ND	Dual Differential Driver/Receiver	16-Dip	1.25	1.00	.75
SN75C1168NSR	296-6964-1-ND	Dual Differential Driver/Receiver	16-SOP	1.25	1.00	.75
SN75C1168NSR	296-6964-2-ND	Dual Differential Driver/Receiver	16-SOP	1300.00/2,000		
SN75C1406D	296-12934-5-ND	Triple Low Power Driver/Receiver	16-SOP	1.44	1.20	.96
SN75C1406DW	296-1751-5-ND	Triple Low Power Driver/Receiver	16-SOIC	1.44	1.20	.96
SN75C1406DWR	296-1751-1-ND	Triple Low Power Driver/Receiver	16-SOIC	1.44	1.20	.96
SN75C1406DWR	296-1751-2-ND	Triple Low Power Driver/Receiver	16-SOIC	1276.00/2,000		
SN75C1406N	296-1752-5-ND	Triple Low Power Driver/Receiver	16-Dip	1.44	1.20	.96
SN75C3221DBR	296-13322-1-ND	3-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2.43	1.95	1.52
SN75C3221DBR	296-13322-2-ND	3-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2754.00/2,000		
SN75C3221PWR	296-13323-1-ND	3-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-TSSOP	2.43	1.95	1.52
SN75C3221PWR	296-13323-2-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2754.00/2,000		
SN75C3222DWR	296-13040-1-ND	RS-232 Compatible Line Driver/Receiver	20-SOP	3.51	2.81	2.19
SN75C3222DWR	296-13040-2-ND	RS-232 Compatible Line Driver/Receiver	20-SOP	3978.00/2,000		
SN75C3223DBR	296-13499-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	2.97	2.38	1.85
SN75C3223DBR	296-13499-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3366.00/2,000		
SN75C3223DWR	296-13500-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2.97	2.38	1.85
SN75C3223DWR	296-13500-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	3366.00/2,000		
SN75C3223PWR	296-13501-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2.97	2.38	1.85
SN75C3223PWR	296-13501-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3366.00/2,000		
SN75C3238DBR	296-12743-1-ND	RS-232 Line Driver/Receiver	28-SSOP	3.51	2.81	2.19
SN75C3238DBR	296-12743-2-ND	RS-232 Line Driver/Receiver	28-SSOP	3978.00/2,000		
SN75C3238DWR	296-13324-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOP	3.51	2.81	2.19
SN75C3238DWR	296-13324-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOP	1989.00/1,000		
SN75C3238PWR	296-13325-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3.51	2.81	2.19
SN75C3238PWR	296-13325-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3978.00/2,000		
SN75C3243DBR	296-13326-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	3.24	2.60	2.02
SN75C3243DBR	296-13326-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	3672.00/2,000		
SN75C3243DWR	296-13327-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOP	3.24	2.60	2.02
SN75C3243DWR	296-13327-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOP	1836.00/1,000		
SN75C3243PWR	296-13058-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3.24	2.60	2.02
SN75C3243PWR	296-13058-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4148.00/2,000		
SN75C23243DGGR	296-13320-1-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	4.28	3.42	2.66
SN75C23243DGGR	296-13320-2-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	4846.00/2,000		
SN75C23243DLR	296-13321-1-ND	3-5.5V, Dual RS-232 Port	48-SSOP	4.28	3.42	2.66
SN75C23243DLR	296-13321-2-ND	3-5.5V, Dual RS-232 Port	48-SSOP	2423.00/1,000		
SN75LP196DBR	296-6974-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2.13	1.70	1.28
SN75LP196DBR	296-6974-2-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2210.00/2,000		
SN75LP196DWR	296-6975-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2.13	1.70	1.28
SN75LP196DWR	296-6975-2-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2210.00/2,000		
SN75LP1185DBR	296-6971-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2.13	1.70	1.28
SN75LP1185DBR	296-6971-2-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2210.00/2,000		
SN75LP1185DW	296-6972-5-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2.13	1.70	1.28
SN75LP1185DWR	296-6972-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2.13	1.70	1.28
SN75LP1185DWR	296-6972-2-ND	LP Multiple RS-232 Driver/Receiver	20-SOP	2210.00/2,000		
SN75LPE185DBR	296-6976-1-ND	LP Multiple RS-232 Driver/Receiver	24-SOP	2.25	1.80	1.35
SN75LPE185DBR	296-6976-2-ND	LP Multiple RS-232 Driver/Receiver	24-SOP	2340.00/2,000		
SN75LPE185DW	296-1759-5-ND	LP Multiple RS-232 Driver/Receiver	24-SOIC	2.25	1.80	1.35
SN75LV4737ADBR	296-6977-1-ND	Multichannel RS-232 Line Driver/Receiver with Enable	28-SOP	4.16	3.33	2.59
SN75LV4737ADBR	296-6977-2-ND	Multichannel RS-232 Line Driver/Receiver with Enable	28-SOP	4718.00/2,000		
SN75113NSR	296-13312-1-ND	Dual Differential Line Driver	16-SOP	1.68	1.34	1.01
SN75113NSR	296-13312-2-ND	Dual Differential Line Driver	16-SOP	1742.00/2,000		
SN75116NSR	296-13313-1-ND	Tri-State Differential Line Transceiver	16-SOP	3.71	2.97	2.31
SN75116NSR	296-13313-2-ND	Tri-State Differential Line Transceiver	16-SOP	4208.00/2,000		
SN75121NSR	296-13314-1-ND	High Speed Dual Line Driver	16-SOP	1.88	1.50	1.13
SN75121NSR	296-13314-2-ND	High Speed Dual Line Driver	16-SOP	1950.00/2,000		
SN75154NSR	296-13315-1-ND	Quad Line Receiver	16-SOP	.90	.75	.60
SN75154NSR	296-13315-2-ND	Quad Line Receiver	16-SOP	798.00/2,000		
SN75185DW	296-1740-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.81	.68	.54
SN75185DWR	296-1740-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.81	.68	.54
SN75185DWR	296-1740-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	718.00/2,000		
SN75185N	296-6953-5-ND	Multiple RS-232 Driver/Receiver	20-Dip	.81	.68	.54
SN75186DW	296-6954-5-ND	Quad Driver/Receiver with Loopback	24-SOP	3.60	2.88	2.24
SN75188D	296-1276-5-ND	Quad Line Driver	14-SOIC	.56	.42	.32
SN75188DR	296-1276-1-ND	Quad Line Driver	14-SOIC	.56	.42	.32
SN75188DR	296-1276-2-ND	Quad Line Driver	14-SOIC	455.00/2,500		
SN75188N	296-1742-5-ND	Quad Line Driver	14-Dip	.56	.42	.32
SN75189AD	296-1277-5-ND	Quad Line Receiver	14-SOIC	.56	.42	.32
SN75189ADR	296-1277-1-ND	Quad Line Receiver	14-SOIC	.56	.42	.32
SN75189ADR	296-1277-2-ND	Quad Line Receiver	14-SOIC	455.00/2,500		
SN75189AN	296-1744-5-ND	Quad Line Receiver	14-Dip	.56	.42	.32
SN75189D	296-1745-5-ND	Quad Line Receiver	14-SOIC	.56	.42	.32
SN75189N	296-6955-5-ND	Quad Line Receiver	14-Dip	.56	.42	.32
SN75196DW	296-6956-5-ND	Multiple RS-232 Driver/Receiver	20-SOP	1.05	.88	.70
SN75196DWR	296-12930-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1.05	.88	.70
SN75196DWR	296-12930-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	932.00/2,000		
SN75196N	296-6957-5-ND	Multiple RS-232 Driver/Receiver	20-Dip	1.05	.88	.70
SN75451BPSR	296-13316-1-ND	Dual Peripheral Driver	8-SOP	.64	.48	.36
SN75451BPSR	296-13316-2-ND	Dual Peripheral Driver	8-SOP	426.00/2,000		
SN75454BPSR	296-13317-1-ND	Dual Peripheral Driver	8-SOP	.64	.48	.36
SN75454BPSR	296-13317-2-ND	Dual Peripheral Driver	8-SOP	426.00/2,000		
SN752232DGGR	296-12331-1-ND	Dual RS-232 Port	48-TSSOP	1.35	1.13	.90
SN752232DGGR	296-12331-2-ND	Dual RS-232 Port	48-TSSOP	1198.00/2,000		
SN752232DLR	296-12332-1-ND	Dual RS-232 Port	48-SSOP	1.35	1.13	.90
SN752232DLR	296-12332-2-ND	Dual RS-232 Port	48-SSOP	599.00/1,000		
TL145406DWR	296-10140-1-ND	Triple RS-232 Driver/Receiver	16-SOIC	1.20	1.00	.80
TL145406DWR	296-10140-2-ND	Triple RS-232 Driver/Receiver	16-SOIC	1064.00/2,000		
TL145406N	296-10141-5-ND	Triple RS-232 Driver/Receiver	16-Dip	1.20	1.00	.80
UA9636ACD	296-11147-5-ND	Dual Line Driver with Adjustable Slew Rate	8-SOIC	.90	.75	.60
UA9636ACP	296-11148-5-ND	Dual Line Driver with Adjustable Slew Rate	8-Dip	.90	.75	.60
UC5170CQ	296-11352-5-ND	Octal Line Driver with Strapped Mode Selection	28-PLCC	5.54	4.44	3.74
UC5180CQ	296-11354-5-ND	Low-Speed Asynchronous Octal Line Receiver	28-PLCC	5.54	4.44	3.74

SCSI

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75970B2DGG	296-9921-5-ND	SCSI Diff. Converter Control	56-TSSOP	20.16	18.82	17.48
SN75970B2DL	296-9922-5-ND	SCSI Diff. Converter Control	56-SSOP	20.16	18.82	17.48
SN75971B2DGG	296-9923-5-ND	SCSI Diff. Converter - Data	56-TSSOP	18.42	17.20	15.97
SN75971B2DL	296-9924-5-ND	SCSI Diff. Converter - Data	56-SSOP	18.42	17.20	15.97
SN75976A2DL	296-1278-5-ND	9-Channel Differential Transceiver	56-SSOP	18.30	17.08	15.86
SN75976A2DLR	296-1278-1-ND	9-Channel Differential Transceiver	56-SSOP	18.30	17.08	15.86
SN75976A2DLR	296-1278-2-ND	9-Channel Differential Transceiver	56-SSOP	15067.00/1,000		
UCC5642MWP	296-12333-5-ND	9-Line LVD Only SCSI Terminator with Regulator	36-QSOP	5.11	4.09	3.18

TEXAS INSTRUMENTS DIGITAL AUDIO INTERFACE RECEIVER

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DIR1701E-ND	DIR1701E-ND	Digital Audio Interface Receiver	28-SSOP	3.80	3.05	2.37
DIR1703E-ND	DIR1703E-ND	Digital Audio Interface Receiver	28-SSOP	3.80	3.05	2.37

TEXAS INSTRUMENTS DIGITAL LOGIC

4000 Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4001BE	296-2028-5-ND	CMOS Quad 2-In. NOR Gate	14-Dip	.40	.32	.22
CD4001BM	296-3500-5-ND	CMOS Quad 2-In. NOR Gate	14-SOP	.40	.32	.22
CD4001BNSR	296-12627-1-ND	CMOS Quad 2-In. NOR Gate	14-SOP	.40	.32	.22
CD4001BNSR	296-12627-2-ND	CMOS Quad 2-In. NOR Gate	14-SOP	190.00/2,000		
CD4001BPWR	296-14076-1-ND	CMOS Quad 2-In. NOR Gate *NEW!*	14-TSSOP	.40	.32	.22
CD4001BPWR	296-14076-2-ND	CMOS Quad 2-In. NOR Gate *NEW!*	14-TSSOP	190.00/2,000		
CD4001UBE	296-14077-5-ND	CMOS Quad 2-In. NOR Gate *NEW!*	14-Dip	.40	.32	.22
CD4002BE	296-2029-5-ND	Dual 4-Input NOR Gate	14-Dip	.40	.32	.22
CD4002BNSR	296-14078-1-ND	Dual 4-Input NOR Gate *NEW!*	14-SOP	.40	.32	.22
CD4002BNSR	296-14078-2-ND	Dual 4-Input NOR Gate *NEW!*	14-SOP	190.00/2,000		
CD4002BPWR	296-14239-1-ND	Dual 4-Input NOR Gate *NEW!*	14-TSSOP	.40	.32	.22
CD4002BPWR	296-14239-2-ND	Dual 4-Input NOR Gate *NEW!*	14-TSSOP	190.00/2,000		
CD4007UBE	296-3501-5-ND	Dual Complementary Pair Plus Inverter	14-Dip	.40	.32	.22
CD4007UBM	296-3502-5-ND	Dual Complementary Pair Plus Inverter	14-SOP	.40	.32	.22
CD4009UBE	296-2030-5-ND	Hex Inverter Buffer	16-Dip	.40	.32	.22
CD4010BE	296-2160-5-ND	Hex Buffer/Converter *NEW!*	16-Dip	.78	.65	.52
CD4010BPWR	296-14084-1-ND	Hex Buffer/Converter *NEW!*	16-TSSOP	.40	.32	.24
CD4010BPWR	296-14084-2-ND	Hex Buffer/Converter *NEW!*	16-TSSOP	224.00/2,000		
CD4011BE	296-2031-5-ND	Quad 2-Input NAND Gate	14-Dip	.36	.29	.20
CD4011BM	296-3507-5-ND	Quad 2-Input NAND Gate	14-SOP	.36	.29	.20

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD4011BM96	296-14474-1-ND	Quad 2-In. CMOS NAND Gate *NEW!*	14-SOIC	.36	.29	.20
CD4011BM96	296-14474-2-ND	Quad 2-In. CMOS NAND Gate *NEW!*	14-SOIC	235.00/2,500		
CD4011BNSR	296-14085-1-ND	Quad 2-Input NAND Gate *NEW!*	14-SOP	.36	.29	.20
CD4011BNSR	296-14085-2-ND	Quad 2-Input NAND Gate *NEW!*	14-SOP	198.00/2,000		
CD4011BPWR	296-12759-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.36	.29	.20
CD4011BPWR	296-12759-2-ND	Quad 2-Input NAND Gate	14-TSSOP	198.00/2,000		
CD4011UBE	296-14086-5-ND	Quad 2-Input NAND Gate *NEW!*	14-Dip	.36	.29	.20
CD4012BE	296-2032-5-ND	Dual 4-Input NAND Gate	14-Dip	.36	.29	.20
CD4012BM96	296-14246-1-ND	Dual 4-Input NAND Gate *NEW!*	14-SOIC	.36	.29	.20
CD4012BM96	296-14246-2-ND	Dual 4-Input NAND Gate *NEW!*	14-SOIC	235.00/2,500		
CD4012BNSR	296-14087-1-ND	Dual 4-Input NAND Gate *NEW!*	14-SOP	.36	.29	.20
CD4012BNSR	296-14087-2-ND	Dual 4-Input NAND Gate *NEW!*	14-SOP	198.00/2,000		
CD4013BE	296-2033-5-ND	Dual CMOS D-Type Flip-Flop	14-Dip	.36	.29	.20
CD4013BM	296-12972-5-ND	Dual CMOS D-Type Flip-Flop	14-SOIC	.36	.29	.20
CD4013BNSR	296-14088-1-ND	Dual CMOS D-Type Flip-Flop *NEW!*	14-SOP	.36	.29	.20
CD4013BNSR	296-14088-2-ND	Dual CMOS D-Type Flip-Flop *NEW!*	14-SOP	198.00/2,000		
CD4013BPWR	296-14089-1-ND	Dual CMOS D-Type Flip-Flop *NEW!*	14-TSSOP	.36	.29	.20
CD4013BPWR	296-14089-2-ND	Dual CMOS D-Type Flip-Flop *NEW!*	14-TSSOP	198.00/2,000		
CD4014BE	296-2034-5-ND	8-Bit Shift Register	16-Dip	.50	.40	.30
CD4014BPWR	296-14248-1-ND	8-Bit Shift Register *NEW!*	16-TSSOP	.50	.40	.30
CD4014BPWR	296-14248-2-ND	8-Bit Shift Register *NEW!*	16-TSSOP	280.00/2,000		
CD4015BE	296-2035-5-ND	Dual 4-Stage Static Shift Register	16-Dip	.55	.44	.33
CD4015BPWR	296-14090-1-ND	Dual 4-Stage Static Shift Register *NEW!*	16-TSSOP	.55	.44	.33
CD4015BPWR	296-14090-2-ND	Dual 4-Stage Static Shift Register *NEW!*	16-TSSOP	198.00/2,000		
CD4016BE	296-2036-5-ND	Quad Bilateral Switch	14-Dip	.36	.29	.20
CD4016BM	296-14250-5-ND	Quad Bilateral Switch *NEW!*	14-SOIC	.36	.29	.20
CD4016BNSR	296-14092-1-ND	Quad Bilateral Switch *NEW!*	16-SOP	.36	.29	.20
CD4016BNSR	296-14092-2-ND	Quad Bilateral Switch *NEW!*	16-SOP	198.00/2,000		
CD4017BE	296-2037-5-ND	10 Decade Counter/Divider	16-Dip	.39	.32	.22
CD4017BNSR	296-14094-1-ND	10 Decade Counter/Divider *NEW!*	16-SOP	.39	.32	.22
CD4017BNSR	296-14094-2-ND	10 Decade Counter/Divider *NEW!*	16-SOP	216.00/2,000		
CD4017BPWR	296-14252-1-ND	10 Decade Counter/Divider *NEW!*	16-TSSOP	.39	.32	.22
CD4017BPWR	296-14252-2-ND	10 Decade Counter/Divider *NEW!*	16-TSSOP	216.00/2,000		
CD4018BE	296-14236-ND	CMOS Presettable Divide-by-N Counter	16-Dip	.55	.44	.33
CD4018BNSR	296-14095-1-ND	CMOS Presettable Divide-by-N Counter *NEW!*	16-SOP	.55	.44	.33
CD4018BNSR	296-14095-2-ND	CMOS Presettable Divide-by-N Counter *NEW!*	16-SOP	308.00/2,000		
CD4019BE	296-2038-5-ND	Quad AND/OR Select Gate	16-Dip	.55	.44	.33
CD4020BE	296-2039-5-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-Dip	.55	.44	.33
CD4020BNSR	296-14097-1-ND	14-Bit Ripple-Carry Binary Counter/Divider *NEW!*	16-SOP	.55	.44	.33
CD4020BNSR	296-14097-2-ND	14-Bit Ripple-Carry Binary Counter/Divider *NEW!*	16-SOP	308.00/2,000		
CD4021BE	296-2040-5-ND	8-Bit Shift Register	16-Dip	.39	.32	.22
CD4021BM	296-14255-5-ND	8-Bit Shift Register *NEW!*	16-SOIC	.39	.32	.22
CD4021BPWR	296-14256-1-ND	8-Bit Shift Register *NEW!*	16-TSSOP	.39	.32	.22
CD4021BPWR	296-14256-2-ND	8-Bit Shift Register *NEW!*	16-TSSOP	216.00/2,000		
CD4022BNSR	296-14098-1-ND	Octal Counter/Divider *NEW!*	16-SOP	.45	.36	.27
CD4022BNSR	296-14098-2-ND	Octal Counter/Divider *NEW!*	16-SOP	252.00/2,000		
CD4022BPWR	296-14257-1-ND	Octal Counter/Divider *NEW!*	16-TSSOP	.45	.36	.27
CD4022BPWR	296-14257-2-ND	Octal Counter/Divider *NEW!*	16-TSSOP	252.00/2,000		
CD4023BE	296-2041-5-ND	Triple 3-Input NAND Gate	14-Dip	.36	.29	.20
CD4023BNSR	296-14099-1-ND	Triple 3-Input NAND Gate *NEW!*	14-SOP	.36	.29	.20
CD4023BNSR	296-14099-2-ND	Triple 3-Input NAND Gate *NEW!*	14-SOP	198.00/2,000		
CD4024BE	296-2042-5-ND	7-Bit, Ripple-Carry Binary Counter	14-Dip	.39	.32	.22
CD4024BM96	296-14258-1-ND	7-Bit, Ripple-Carry Binary Counter *NEW!*	14-SOIC	.39	.32	.22
CD4024BM96	296-14258-2-ND	7-Bit, Ripple-Carry Binary Counter *NEW!*	14-SOIC	255.00/2,500		
CD4024BPWR	296-12760-1-ND	7-Bit, Ripple-Carry Binary Counter	14-TSSOP	.39	.32	.22
CD4024BPWR	296-12760-2-ND	7-Bit, Ripple-Carry Binary Counter	14-TSSOP	216.00/2,000		
CD4025BE	296-2043-5-ND	Triple 3-Input NOR Gate	14-Dip	.36	.29	.20
CD4025BM96	296-14100-1-ND	Triple 3-Input NOR Gate *NEW!*	14-SOIC	.36	.29	.20
CD4025BM96	296-14100-2-ND	Triple 3-Input NOR Gate *NEW!*	14-SOIC	235.00/2,500		
CD4026BE	296-14260-5-ND	Decade Counter/Divider *NEW!*	16-Dip	.75	.63	.50
CD4026BPWR	296-14261-1-ND	Decade Counter/Divider *NEW!*	16-TSSOP	.75	.63	.50
CD4026BPWR	296-14261-2-ND	Decade Counter/Divider *NEW!*	16-TSSOP	666.00/2,000		
CD4027BE	296-2044-5-ND	Dual JK Master/Slave Flip-Flop	16-Dip	.36	.29	.20
CD4027BM	296-3511-5-ND	Dual JK Master/Slave Flip-Flop	16-SOP	.36	.29	.20
CD4027BNSR	296-14101-1-ND	Dual JK Master/Slave Flip-Flop *NEW!*	16-SOP	.36	.29	.20
CD4027BNSR	296-14101-2-ND	Dual JK Master/Slave Flip-Flop *NEW!*	16-SOP	198.00/2,000		
CD4027BPWR	296-14262-1-ND	Dual JK Master/Slave Flip-Flop *NEW!*	16-TSSOP	.36	.29	.20
CD4027BPWR	296-14262-2-ND	Dual JK Master/Slave Flip-Flop *NEW!*	16-TSSOP	198.00/2,000		
CD4028BE	296-2045-5-ND	BCD-to-Decimal Decoder	16-Dip	.39	.32	.22
CD4028BNSR	296-12724-1-ND	BCD-to-Decimal Decoder	16-SOP	.39	.32	.22
CD4028BNSR	296-12724-2-ND	BCD-to-Decimal Decoder	16-SOP	216.00/2,000		
CD4029BE	296-2046-5-ND	Preset Up/Down Binary Count	16-Dip	.39	.32	.22
CD4030BE	296-2047-5-ND	Quad Exclusive OR Gate	14-Dip	.36	.29	.20
CD4030BM	296-14263-5-ND	Quad Exclusive OR Gate *NEW!*	14-SOIC	.36	.29	.20
CD4030BNSR	296-14102-1-ND	Quad Exclusive OR Gate *NEW!*	14-SOP	.36	.29	.20
CD4030BNSR	296-14102-2-ND	Quad Exclusive OR Gate *NEW!*	14-SOP	198.00/2,000		
CD4030BPWR	296-14103-1-ND	Quad Exclusive OR Gate *NEW!*	14-TSSOP	.36	.29	.20
CD4030BPWR	296-14103-2-ND	Quad Exclusive OR Gate *NEW!*	14-TSSOP	198.00/2,000		
CD4033BE	296-14264-5-ND	Decade Counter/Divider *NEW!*	16-Dip	1.44	1.20	.96
CD4034BE	296-14237-ND	CMOS 8-Stage Static Bidirectional Parallel/Serial Input/Output Bus Register	24-Dip	1.53	1.22	.92
CD4035BE	296-2163-5-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-Dip	1.44	1.20	.96
CD4035BPWR	296-14267-1-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register *NEW!*	16-TSSOP	1.44	1.20	.96
CD4035BPWR	296-14267-2-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register *NEW!*	16-TSSOP	1276.00/2,000		
CD4040BE	296-2048-5-ND	12 Stage, CMOS Ripply-Carry Binary Counter/Divider	16-Dip	.39	.32	.22
CD4040BNSR	296-13770-1-ND	12 Stage, CMOS Ripply-Carry Binary Counter/Divider	16-SOP	.39	.32	.22
CD4040BNSR	296-13770-2-ND	12 Stage, CMOS Ripply-Carry Binary Counter/Divider	16-SOP	216.00/2,000		
CD4040BPWR	296-12761-1-ND	12 Stage, CMOS Ripply-Carry Binary Counter/Divider	14-TSSOP	.39	.32	.22
CD4040BPWR	296-12761-2-ND	12 Stage, CMOS Ripply-Carry Binary Counter/Divider	14-TSSOP	216.00/2,000		
CD4041UBPWR	296-14104-1-ND	Quad True/Complement Buffer *NEW!*	14-TSSOP	.72	.54	.41
CD4041UBPWR	296-14104-2-ND	Quad True/Complement Buffer *NEW!*	14-TSSOP	478.00/2,000		
CD4042BE	296-2049-5-ND	Quad D-Type Latch	16-Dip	.55	.44	.33
CD4043BE	296-2050-5-ND	Tri-St. Quad NOR R/S Latch	16-Dip	.55	.44	.33
CD4043BDW	296-14269-5-ND	Tri-St. Quad NOR R/S Latch *NEW!*	16-SOIC	.55	.44	.33
CD4043BNSR	296-14105-1-ND	Tri-St. Quad NOR R/S Latch *NEW!*	16-SOP	.55	.44	.33
CD4043BNSR	296-14105-2-ND	Tri-St. Quad NOR R/S Latch *NEW!*	16-SOP	308.00/2,000		
CD4043BPWR	296-14106-1-ND	Tri-St. Quad NOR R/S Latch *NEW!*	16-TSSOP	.55	.44	.33
CD4043BPWR	296-14106-2-ND	Tri-St. Quad NOR R/S Latch *NEW!*	16-TSSOP	308.00/2,000		
CD4044BE	296-2051-5-ND	Quad NAND R/S Latch	16-Dip	.48	.36	.27
CD4044BNSR	296-12762-1-ND	Quad NAND R/S Latch	16-SOP	.48	.36	.27
CD4044BNSR	296-12762-2-ND	Quad NAND R/S Latch	16-SOP	320.00/2,000		
CD4045BE	296-3512-5-ND	21-Stage Counter	16-Dip	.48	.36	.27
CD4045BPWR	296-14107-1-ND	21-Stage Counter *NEW!*	16-TSSOP	.48	.36	.27
CD4045BPWR	296-14107-2-ND	21-Stage Counter *NEW!*	16-TSSOP	320.00/2,000		
CD4046BE	296-2052-5-ND	Micropower Phase Lock Loop	16-Dip	.52	.39	.30
CD4046BNSR	296-14108-1-ND	Micropower Phase Lock Loop *NEW!*	16-SOP	.52	.39	.30
CD4046BNSR	296-14108-2-ND	Micropower Phase Lock Loop *NEW!*	16-SOP	346.00/2,000		
CD4046BPWR	296-14109-1-ND	Micropower Phase Lock Loop *NEW!*	16-SOP	.52	.39	.30
CD4046BPWR	296-14109-2-ND	Micropower Phase Lock Loop *NEW!*	16-SOP	346.00/2,000		
CD4047BE	296-2053-5-ND	CMOS Low Power Monostable/Astable Multivibrator	14-Dip	.39	.32	.22
CD4047BNSR	296-14110-1-ND	CMOS Low Power Monostable/Astable Multivibrator *NEW!*	14-SOP	.39	.32	.22
CD4047BNSR	296-14110-2-ND	CMOS Low Power Monostable/Astable Multivibrator *NEW!*	14-SOP	216.00/2,000		
CD4047BPWR	296-13642-1-ND	CMOS Low Power Monostable/Astable Multivibrator	14-TSSOP	.39	.32	.22
CD4047BPWR	296-13642-2-ND	CMOS Low Power Monostable/Astable Multivibrator	14-TSSOP	216.00/2,000		
CD4048BE	296-2054-5-ND	Expandable 8-In Gate	16-Dip	.55	.44	.33
CD4049UBE	296-2055-5-ND	Hex Inverting Buffer/Converter	16-Dip	.39	.32	.22
CD4049UBNSR	296-14112-1-ND	Hex Inverting Buffer/Converter *NEW!*	16-SOP	.39	.32	.22
CD4049UBNSR	296-14112-2-ND	Hex Inverting Buffer/Converter *NEW!*	16-SOP	216.00/2,000		
CD4050BE	296-2056-5-ND	Hex Non-Inverting Buffer/Converter	16-Dip	.39	.32	.22
CD4050BDWR	296-14270-1-ND	Hex Non-Inverting Buffer/Converter *NEW!*	16-SOIC	.39	.32	.22
CD4050BDWR	296-14270-2-ND	Hex Non-Inverting Buffer/Converter *NEW!*	16-SOIC	216.00/2,000		
CD4050BNSR	296-14113-1-ND	Hex Non-Inverting Buffer/Converter *NEW!*	16-SOP	.39	.32	.22
CD4050BNSR	296-14113-2-ND	Hex Non-Inverting Buffer/Converter *NEW!*	16-SOP	216.00/2,000		
CD4051BE	296-2057-5-ND	8-Channel Analog Mux/Demux	16-Dip	.40	.32	.24
CD4051BM96	296-14271-1-ND	8-Channel Analog Mux/Demux *NEW!*	16-SOIC	.40	.32	.24
CD4051BM96	296-14271-2-ND	8-Channel Analog Mux/Demux *NEW!*	16-SOIC	270.00/2,500		
CD4051BNSR	296-14115-1-ND	8-Channel Analog Mux/Demux *NEW!*	16-SOP	.40	.32	.24
CD4051BNSR	296-14115-2-ND	8-Channel Analog Mux/Demux *NEW!*	16-SOP	224.00/2,000		
CD4051BPWR	296-11993-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.40	.32	.24
CD4051BPWR	296-11993-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	224.00/2,000		
CD4052BE	296-2058-5-ND	4-Ch. Analog Mux/Demux	16-Dip	.36	.30	.21
CD4052BM96	296-14272-1-ND	4-Ch. Analog Mux/Demux *NEW!*	16-SOIC	.36	.30	.21
CD4052BM96	296-14272-2-ND	4-Ch. Analog Mux/Demux *NEW!*	16-SOIC	237.50/2,500		
CD4052BNSR	296-14116-1-ND	4-Ch. Analog Mux/Demux *NEW!*	16-SOP	.36	.30	.21
CD4052BNSR	296-14116-2-ND	4-Ch. Analog Mux/Demux *NEW!*	16-SOP	202.00/2,000		
CD4052BPWR	296-14273-1-ND	4-Ch. Analog Mux/Demux *NEW!*	16-TSSOP	.36	.30	.21
CD4052BPWR	296-14273-2-ND	4-Ch. Analog Mux/Demux *NEW!*	16-TSSOP	202.00/2,000		
CD4053BE	296-2059-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.40	.32	.24
CD4053BM96	296-14274-1-ND	Triple 2-Channel Analog Mux/Demux *NEW!*	16-SOIC	.40	.32	.24
CD4053BM96	296-14274-2-ND	Triple 2-Channel Analog Mux/Demux *NEW!*	16-SOIC	270.00/2,500		
CD4053BPWR	296-14117-1-ND	Triple 2-Channel Analog Mux/Demux *NEW!*	16-TSSOP	.40	.32	.24
CD4053BPWR	296-14117-2-ND	Triple 2-Channel Analog Mux/Demux *NEW!*	16-TSSOP	224.00/2,000		
CD4054BE	296-3514-5-ND	CMOS 4-Segment LCD Driver	16-Dip	.40	.32	.24
CD4055BE	296-14275-5-ND	BCD to 7-Segment LCD Driver *NEW!*	16-Dip	.72	.54	.41
CD4056BE	296-14118-5-ND	BCD to 7-Segment Decoder/Driver *NEW!*	16-Dip	.56	.42	.32
CD4059AE	296-3515-5-ND	CMOS Prog. Divide-by-N Counter	24-Dip	2.25	1.80	1.35
CD4060BE	296-2060-5-ND	14-Bit Ripple Counter/Divider and Oscillator	16-Dip	.40	.32	.24
CD4060BPWR	296-14119-1-ND	14-Bit Ripple Counter/Divider and Oscillator *NEW!*	16-TSSOP	.40	.32	.24
CD4060BPWR	296-14119-2-ND	14-Bit Ripple Counter/Divider and Oscillator *NEW!*	16-TSSOP	224.00/2,000		
CD4063BE	296-14120-5-ND	4-Bit Magnitude Comparator *NEW!*	16-Dip	.64	.48	.36
CD4063BNSR	296-14121-1-ND	4-Bit Magnitude Comparator *NEW!*	16-SOP	.64	.48	.36
CD4063BNSR	296-14121-2-ND	4-Bit Magnitude Comparator *NEW!*	16-SOP	426.00/2,000		
CD4066BE	296-2061-5-ND	Quad Bilateral Switch	14-Dip	.36	.30	.21
CD4066BM	296-3516-5-ND	Quad Bilateral Switch	14-SOP	.36	.30	.21
CD4066BM96	296-14475-1-ND	Quad Bilateral Switch *NEW!*	14-SOIC	.36	.30	.21
CD4066BM96	296-14475-2-ND	Quad Bilateral Switch *NEW!*	14-SOIC	237.50/2,500		
CD4066BNSR	296-14122-1-ND	Quad Bilateral Switch *NEW!*	14-SOP	.36	.30	.21
CD4066BNSR	296-14122-2-ND	Quad Bilateral Switch *NEW!*	14-SOP	202.00/2,000		
CD4066BPWR	296-14123-1-ND	Quad Bilateral Switch *NEW!*	14-TSSOP	.36	.29	.20
CD4066BPWR	296-14123-2-ND	Quad Bilateral Switch *NEW!*	14-TSSOP	198.00/2,000		
CD4067BE	296-3517-5-ND	Single 16-Channel Analog Mux/Demux	24-Dip	.90	.75	.60
CD4068BE	296-14124-5-ND	8-Input NAND/AND Gate *NEW!*	14-Dip	.36	.30	.21
CD4068BNSR	296-14125-1-ND	8-Input NAND/AND Gate *NEW!*	14-SOP	.36	.30	.21
CD4068BNSR	296-14125-2-ND	8-Input NAND/AND Gate *NEW!*	14-SOP	202.00/2,000		
CD4069UBE	296-3518-5-ND	Hex Inverter	14-Dip	.36	.30	.21
CD4069UBM	296-3519-5-ND	Hex Inverter	14-SOP	.36	.30	.21
CD4069UBM96	296-14476-1-ND	Hex Inverter *NEW!*	14-SOIC	.36	.30	.21
CD4069UBM96	296-14476-2-ND	Hex Inverter *NEW!*	14-SOIC	237.50/2,500		
CD4069UBNSR	296-14126-1-ND	Hex Inverter *NEW!*	14-SOP	.36	.30	.21

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
CD4069UBNSR	296-14126-2-ND	Hex Inverter *NEW!*	14-SOP	202.00/2,000		
CD4069UBPWR	296-14127-1-ND	Hex Inverter *NEW!*	14-TSSOP	.36	.30	.21
CD4069UBPWR	296-14127-2-ND	Hex Inverter *NEW!*	14-TSSOP	202.00/2,000		
CD4070BE	296-14128-5-ND	Quad Exclusive OR Gate *NEW!*	14-Dip	.36	.30	.21
CD4070BM	296-14276-5-ND	Quad Exclusive OR Gate *NEW!*	14-SOIC	.36	.30	.21
CD4070BNSR	296-14129-1-ND	Quad Exclusive OR Gate *NEW!*	14-SOP	.36	.30	.21
CD4070BNSR	296-14129-2-ND	Quad Exclusive OR Gate *NEW!*	14-SOP	202.00/2,000		
CD4070BPWR	296-14277-1-ND	Quad Exclusive OR Gate *NEW!*	14-TSSOP	.36	.30	.21
CD4070BPWR	296-14277-2-ND	Quad Exclusive OR Gate *NEW!*	14-TSSOP	202.00/2,000		
CD4071BE	296-2062-5-ND	Quad 2-Input OR Gate	14-Dip	.36	.30	.21
CD4071BM	296-14278-5-ND	Quad 2-Input OR Gate *NEW!*	14-SOIC	.36	.30	.21
CD4071BNSR	296-14130-1-ND	Quad 2-Input OR Gate *NEW!*	14-SOP	.36	.30	.21
CD4071BNSR	296-14130-2-ND	Quad 2-Input OR Gate *NEW!*	14-SOP	202.00/2,000		
CD4071BPW	296-14131-5-ND	Quad 2-Input OR Gate *NEW!*	14-TSSOP	.36	.30	.21
CD4072BE	296-2063-5-ND	Dual 4-Input OR Gate	14-SOP	.36	.30	.21
CD4072BNSR	296-14132-1-ND	Dual 4-Input OR Gate *NEW!*	14-SOP	.36	.30	.21
CD4072BNSR	296-14132-2-ND	Dual 4-Input OR Gate *NEW!*	14-SOP	202.00/2,000		
CD4073BE	296-2064-5-ND	Triple 3-Input AND Gate	14-Dip	.36	.30	.21
CD4073BM	296-3520-5-ND	Triple 3-Input AND Gate	14-SOP	.36	.30	.21
CD4073BNSR	296-14133-1-ND	Triple 3-Input AND Gate *NEW!*	14-SOP	.36	.30	.21
CD4073BNSR	296-14133-2-ND	Triple 3-Input AND Gate *NEW!*	14-SOP	202.00/2,000		
CD4073BPWR	296-14134-1-ND	Triple 3-Input AND Gate *NEW!*	14-TSSOP	.36	.30	.21
CD4073BPWR	296-14134-2-ND	Triple 3-Input AND Gate *NEW!*	14-TSSOP	202.00/2,000		
CD4075BE	296-2065-5-ND	Triple 3-Input OR Gate	14-Dip	.36	.30	.21
CD4075BM	296-14279-5-ND	Triple 3-Input OR Gate *NEW!*	14-SOIC	.36	.30	.21
CD4075BNSR	296-14136-1-ND	Triple 3-Input OR Gate *NEW!*	14-SOP	.36	.30	.21
CD4075BNSR	296-14136-2-ND	Triple 3-Input OR Gate *NEW!*	14-SOP	202.00/2,000		
CD4076BE	296-14137-5-ND	4-Bit D-Type Register *NEW!*	16-Dip	.48	.36	.27
CD4077BE	296-13771-5-ND	CMOS Quad Exclusive-NOR Gate	14-Dip	.36	.30	.21
CD4077BM	296-9406-5-ND	CMOS Quad Exclusive-NOR Gate	14-SOP	.36	.30	.21
CD4078BE	296-3521-5-ND	8-Input NOR/OR Gate	14-Dip	.36	.30	.21
CD4078BM	296-14138-5-ND	8-Input NOR/OR Gate *NEW!*	14-SOIC	.36	.30	.21
CD4078BNSR	296-14139-1-ND	8-Input NOR/OR Gate *NEW!*	14-SOP	.36	.30	.21
CD4078BNSR	296-14139-2-ND	8-Input NOR/OR Gate *NEW!*	14-SOP	202.00/2,000		
CD4081BE	296-2066-5-ND	Quad 2-Input AND Gate	14-Dip	.36	.30	.21
CD4081BM	296-14280-5-ND	Quad 2-Input AND Gate *NEW!*	14-SOIC	.36	.30	.21
CD4081BNSR	296-14140-1-ND	Quad 2-Input AND Gate *NEW!*	14-SOP	.36	.30	.21
CD4081BNSR	296-14140-2-ND	Quad 2-Input AND Gate *NEW!*	14-SOP	202.00/2,000		
CD4081BPWR	296-14141-1-ND	Quad 2-Input AND Gate *NEW!*	14-TSSOP	.36	.30	.21
CD4081BPWR	296-14141-2-ND	Quad 2-Input AND Gate *NEW!*	14-TSSOP	202.00/2,000		
CD4082BE	296-2067-5-ND	Dual 4-Input AND Gate	14-Dip	.36	.30	.21
CD4085BE	296-3522-5-ND	Dual 2-Wide/2-Input AND/OR Invert Gate	14-Dip	.72	.54	.41
CD4085BPWR	296-14143-1-ND	Dual 2-Wide/2-Input AND/OR Invert Gate *NEW!*	14-TSSOP	.72	.54	.41
CD4085BPWR	296-14143-2-ND	Dual 2-Wide/2-Input AND/OR Invert Gate *NEW!*	14-TSSOP	478.00/2,000		
CD4086BE	296-14281-5-ND	Expandable 4-Wide/2-Input AND/OR Invert Gate *NEW!*	14-Dip	.80	.60	.45
CD4089BE	296-2165-5-ND	Binary Rate Multiplier *NEW!*	16-Dip	1.20	1.00	.80
CD4089BPWR	296-3523-1-ND	Binary Rate Multiplier	16-TSSOP	1.20	1.00	.80
CD4089BPWR	296-3523-2-ND	Binary Rate Multiplier	16-TSSOP	1064.00/2,000		
CD4093BE	296-2068-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.36	.30	.21
CD4093BM	296-3524-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP	.36	.30	.21
CD4093BNSR	296-14145-1-ND	Quad 2-Input NAND Schmitt Trigger *NEW!*	14-SOP	.36	.30	.21
CD4093BNSR	296-14145-2-ND	Quad 2-Input NAND Schmitt Trigger *NEW!*	14-SOP	202.00/2,000		
CD4093BPW	296-14146-5-ND	Quad 2-Input NAND Schmitt Trigger *NEW!*	14-TSSOP	.36	.30	.21
CD4093BPWR	296-13873-1-ND	Quad 2-Input NAND Schmitt Trigger *NEW!*	14-TSSOP	.36	.30	.21
CD4093BPWR	296-13873-2-ND	Quad 2-Input NAND Schmitt Trigger *NEW!*	14-TSSOP	202.00/2,000		
CD4094BE	296-2069-5-ND	8-Bit Shift Register w/Latch	16-Dip	.45	.36	.27
CD4094BPWR	296-13860-1-ND	8-Bit Shift Register w/Latch *NEW!*	16-TSSOP	.45	.36	.27
CD4094BPWR	296-13860-2-ND	8-Bit Shift Register w/Latch *NEW!*	16-TSSOP	252.00/2,000		
CD4097BE	296-3525-5-ND	Diff. 8-Channel Analog Mux/Demux	24-Dip	1.80	1.44	1.08
CD4098BE	296-3526-5-ND	Dual Monostable Multivibrator	16-Dip	.48	.36	.27
CD4099BE	296-2070-5-ND	8-Bit Addressable Latch	16-Dip	.48	.36	.27
CD4099BPWR	296-9407-1-ND	8-Bit Addressable Latch	16-TSSOP	.48	.36	.27
CD4099BPWR	296-9407-2-ND	8-Bit Addressable Latch	16-TSSOP	320.00/2,000		
CD4502BE	296-2166-5-ND	CMOS Strobed Hex Inverter/Buffer	16-Dip	.48	.36	.27
CD4502BNSR	296-14148-1-ND	Strobed Hex Inverter/Buffer *NEW!*	16-SOP	.48	.36	.27
CD4502BNSR	296-14148-2-ND	Strobed Hex Inverter/Buffer *NEW!*	16-SOP	320.00/2,000		
CD4503BE	296-2071-5-ND	Tri-State Hex Buffer	16-Dip	.48	.36	.27
CD4504BE	296-3527-5-ND	Hex Voltage-Level Shifter	16-Dip	.80	.60	.45
CD4504BM96	296-14150-1-ND	Hex Voltage-Level Shifter *NEW!*	16-SOIC	.80	.60	.45
CD4504BM96	296-14150-2-ND	Hex Voltage-Level Shifter *NEW!*	16-SOIC	650.00/2,500		
CD4504BPWR	296-12010-1-ND	Hex Voltage-Level Shifter	16-TSSOP	.80	.60	.45
CD4504BPWR	296-12010-2-ND	Hex Voltage-Level Shifter	16-TSSOP	532.00/2,000		
CD4508BE	296-14151-5-ND	Dual 4-Bit Latch *NEW!*	24-Dip	1.55	1.24	.93
CD4510BNSR	296-14152-1-ND	BCD Presettable Up/Down Counter *NEW!*	16-SOP	.48	.36	.27
CD4510BNSR	296-14152-2-ND	BCD Presettable Up/Down Counter *NEW!*	16-SOP	320.00/2,000		
CD4510BPWR	296-14153-1-ND	BCD Presettable Up/Down Counter *NEW!*	16-TSSOP	.48	.36	.27
CD4510BPWR	296-14153-2-ND	BCD Presettable Up/Down Counter *NEW!*	16-TSSOP	320.00/2,000		
CD4511BE	296-2072-5-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-Dip	.55	.44	.33
CD4511BNSR	296-3528-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP	.55	.44	.33
CD4511BNSR	296-3528-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP	308.00/2,000		
CD4511BPWR	296-3529-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-TSSOP	.55	.44	.33
CD4511BPWR	296-3529-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-TSSOP	308.00/2,000		
CD4512BE	296-2073-5-ND	8-Channel Data Selector	16-Dip	.55	.44	.33
CD4514BE	296-2074-5-ND	4-Bit Latch/Line Decoder	24-Dip	.80	.60	.45
CD4514BM	296-14282-5-ND	4-Bit Latch/Line Decoder *NEW!*	24-SOIC	.80	.60	.45
CD4515BE	296-2168-5-ND	4-Bit Latch/Line Decoder *NEW!*	24-Dip	.80	.60	.45
CD4515BM	296-14284-5-ND	4-Bit Latch/Line Decoder *NEW!*	24-SOIC	.80	.60	.45
CD4516BE	296-2075-5-ND	Binary Up/Down Counter	16-Dip	.64	.48	.36
CD4516BPWR	296-3530-1-ND	Binary Up/Down Counter	16-TSSOP	.64	.48	.36
CD4516BPWR	296-3530-2-ND	Binary Up/Down Counter	16-TSSOP	426.00/2,000		
CD4517BE	296-14285-5-ND	Dual 64-Stage Static Shift Register *NEW!*	16-Dip	1.25	1.00	.75
CD4518BE	296-2076-5-ND	Dual BCD Up Counter	16-Dip	.48	.36	.27
CD4518BNSR	296-14157-1-ND	Dual BCD Up Counter *NEW!*	16-SOP	.48	.36	.27
CD4518BNSR	296-14157-2-ND	Dual BCD Up Counter *NEW!*	16-SOP	320.00/2,000		
CD4520BE	296-2077-5-ND	Dual Binary Up Counter	16-Dip	.48	.36	.27
CD4521BE	296-14158-5-ND	24-Stage Frequency Divider *NEW!*	16-Dip	.72	.54	.41
CD4522BE	296-3531-5-ND	Prog. BCD Divide-by-N Counter	16-Dip	.48	.36	.27
CD4527BE	296-3532-5-ND	BCD Rate Multiplier	16-Dip	.48	.36	.27
CD4527BNSR	296-14159-1-ND	BCD Rate Multiplier *NEW!*	16-SOP	.48	.36	.27
CD4527BNSR	296-14159-2-ND	BCD Rate Multiplier *NEW!*	16-SOP	320.00/2,000		
CD4527BPWR	296-14160-1-ND	BCD Rate Multiplier *NEW!*	16-TSSOP	.48	.36	.27
CD4527BPWR	296-14160-2-ND	BCD Rate Multiplier *NEW!*	16-TSSOP	320.00/2,000		
CD4532BE	296-3533-5-ND	8-Bit Priority Encoder	16-Dip	.48	.36	.27
CD4532BPWR	296-14161-1-ND	8-Bit Priority Encoder *NEW!*	16-TSSOP	.48	.36	.27
CD4532BPWR	296-14161-2-ND	8-Bit Priority Encoder *NEW!*	16-TSSOP	320.00/2,000		
CD4536BE	296-3534-5-ND	CMOS Programmable Timer	16-Dip	.60	.45	.34
CD4536BNSR	296-14304-1-ND	CMOS Programmable Timer *NEW!*	16-SOP	.60	.45	.34
CD4536BNSR	296-14304-2-ND	CMOS Programmable Timer *NEW!*	16-SOP	400.00/2,000		
CD4541BE	296-2078-5-ND	Programmable Timer	14-Dip	.45	.36	.27
CD4541BM	296-3535-5-ND	Programmable Timer	14-SOP	.45	.36	.27
CD4541BM96	296-3536-1-ND	Programmable Timer	14-SOP	.45	.36	.27
CD4541BM96	296-3536-2-ND	Programmable Timer	14-SOP	305.00/2,500		
CD4543BE	296-2079-5-ND	BCD to 7-Segment Decoder Driver	16-Dip	.45	.36	.27
CD4555BE	296-14286-5-ND	Dual Binary to 1-of-4 Decoder/Demultiplexer *NEW!*	16-Dip	.27	.36	.27
CD4556BE	296-3537-5-ND	Dual Binary to 1-of-4 Decoder/Demux with Output	16-Dip	.56	.42	.32
CD4585BE	296-2080-5-ND	4-Bit Magnitude Comparator	16-Dip	.56	.42	.32
CD4724BE	296-2169-5-ND	8-Bit Addressable Latch *NEW!*	16-Dip	.60	.45	.34
CD4724BPWR	296-14162-1-ND	8-Bit Addressable Latch *NEW!*	16-TSSOP	.60	.45	.34
CD4724BPWR	296-14162-2-ND	8-Bit Addressable Latch *NEW!*	16-TSSOP	400.00/2,000		
CD14538BE	296-14074-5-ND	Dual Precision Monostable Multivibrator *NEW!*	16-Dip	.64	.48	.36
CD14538BNSR	296-14075-1-ND	Dual Precision Monostable Multivibrator *NEW!*	16-SOP	.64	.48	.36
CD14538BNSR	296-14075-2-ND	Dual Precision Monostable Multivibrator *NEW!*	16-SOP	426.00/2,000		
CD14538BPWR	296-12018-1-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP	.64	.48	.36
CD14538BPWR	296-12018-2-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP	426.00/2,000		
CD40102BE	296-14079-5-ND	2-Decade BCD 8-Stage Sync. Down Counter *NEW!*	16-Dip	.96	.72	.54
CD40102BPWR	296-14241-1-ND	2-Decade BCD 8-Stage Sync. Down Counter *NEW!*	16-TSSOP	.96	.72	.54
CD40102BPWR	296-14241-2-ND	2-Decade BCD 8-Stage Sync. Down Counter *NEW!*	16-TSSOP	638.00/2,000		
CD40103BE	296-14080-5-ND	8-Bit Binary 8-Stage Sync. Down Counter *NEW!*	16-Dip	.92	.69	.52
CD40105BE	296-14242-5-ND	CMOS FIFO Register *NEW!*	16-Dip	1.28	1.02	.77
CD40106BE	296-3503-5-ND	Hex Schmitt Trigger	14-Dip	.39	.32	.22
CD40106BM96	296-14081-1-ND	Hex Schmitt Trigger *NEW!*	14-SOIC	.39	.32	.22
CD40106BM96	296-14081-2-ND	Hex Schmitt Trigger *NEW!*	14-SOIC	255.00/2,500		
CD40106BPWR	296-14082-1-ND	Hex Schmitt Trigger *NEW!*	14-TSSOP	.39	.32	.22
CD40106BPWR	296-14082-2-ND	Hex Schmitt Trigger *NEW!*	14-TSSOP	216.00/2,000		
CD40107BE	296-3504-5-ND	Dual 2-Input NAND Buffer/Driver	8-Dip	.56	.42	.32
CD40107BPSR	296-14083-1-ND	Dual 2-Input NAND Buffer/Driver *NEW!*	8-SOP	.56	.42	.32
CD40107BPSR	296-14083-2-ND	Dual 2-Input NAND Buffer/Driver *NEW!*	8-SOP	372.00/2,000		
CD40109BE	296-3505-5-ND	Quad Low-High Voltage Level Shifter	16-Dip	.80	.60	.45
CD40109BPWR	296-12163-1-ND	Quad Low-High Voltage Level Shifter	16-TSSOP	1.14	.95	.76
CD40109BPWR	296-12163-2-ND	Quad Low-High Voltage Level Shifter	16-TSSOP	1010.00/2,000		
CD40110BE	296-3506-5-ND	Decade Up-Down Counter/Latch/Display Driver	16-Dip	1.50	1.20	.90
CD40117BE	296-14244-5-ND	Programmable Dual 4-Bit Terminator *NEW!*	14-Dip	.84	.63	.48
CD40147BE	296-14247-5-ND	10-4 BCD Priority Encoder *NEW!*	16-Dip	1.14	.95	.76
CD40161BNSR	296-14091-1-ND	Synchronous 4-Bit Binary Counter *NEW!*	16-SOP	.50	.40	.30
CD40161BNSR	296-14091-2-ND	Synchronous 4-Bit Binary Counter *NEW!*	16-SOP	280.00/2,000		
CD40161BPWR	296-14249-1-ND	Synchronous 4-Bit Binary Counter *NEW!*	16-TSSOP	.50	.40	.30
CD40161BPWR	296-14249-2-ND	Synchronous 4-Bit Binary Counter *NEW!*	16-TSSOP	280.00/2,000		
CD40174BE	296-3508-5-ND	Hex D-Type Flip-Flop	16-Dip	.48	.36	.27
CD40175BE	296-14251-5-ND	Quad D-Type Flip-Flop *NEW!*	16-Dip	.55	.44	.33
CD40175BPWR	296-14093-1-ND	Quad D-Type Flip-Flop *NEW!*	16-TSSOP	.55	.44	.33
CD40175BPWR	296-14093-2-ND	Quad D-Type Flip-Flop *NEW!*	16-TSSOP	308.00/2,000		
CD40192BE	296-3509-5-ND	Presettable Up/Down BCD Counter (Dual Clock with Reset)	16-Dip	.56	.42	.32
CD40192BNSR	296-14096-1-ND	Presettable Up/Down Counter *NEW!*	16-SOP	.56	.42	.32
CD40192BNSR	296-14096-2-ND	Presettable Up/Down Counter *NEW!*	16-SOP	372.00/2,000		
CD40193BE	296-3510-5-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-Dip	.56	.42	.32
CD40193BPWR	296-14253-1-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset) *NEW!*	16-TSSOP	.56	.42	.32
CD40193BPWR	296-14253-2-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset) *NEW!*	16-TSSOP	372.00/2,000		
CD40194BE	296-14254-5-ND	4-Bit Bidirectional Universal Shift Register *NEW!*	16-Dip	.92	.69	.52
CD40257BE	296-14259-5-ND	Quad 2-1 Data Selector/Multiplexer *NEW!*	16-Dip	.80	.60	.45
CD4009UBPWR	296-14240-1-ND	CMOS Hex Buffer/Converter *NEW!*	16-TSSOP	.40	.32	.22
CD4009UBPWR	296-14240-2-ND	CMOS Hex Buffer/Converter *NEW!*	16-TSSOP	190.00/2,000		
CD4011UBM	296-14245-5-ND	Quad 2-In NAND Gate *NEW!*	14-SOIC	.36	.29	.20
CD4041UBE	296-2164-5-ND	Quad True/Complement Buffer *NEW!*	14-Dip	1.43	1.14	.86
CD4572UBE	296-14287-5-ND	CMOS Hex Gate *NEW!*	16-Dip	.99	.83	.66

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

ABT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABT125D	296-1019-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74ABT125DR	296-1019-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74ABT125DR	296-1019-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74ABT125DBR	296-3875-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74ABT125DBR	296-3875-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74ABT125N	296-3876-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.55	.44	.33
SN74ABT125PWR	296-3877-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.55	.44	.33
SN74ABT125PWR	296-3877-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	308.00/2,000		
SN74ABT125RGYR	296-13888-1-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	.52	.39	.30
SN74ABT125RGYR	296-13888-2-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	173.00/1,000		
SN74ABT126D	296-1020-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74ABT126DR	296-1020-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74ABT126DR	296-1020-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74ABT126DBR	296-3878-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74ABT126DBR	296-3878-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74ABT126N	296-3879-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.55	.44	.33
SN74ABT126PWR	296-3880-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.55	.44	.33
SN74ABT126PWR	296-3880-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	308.00/2,000		
SN74ABT126RGYR	296-13889-1-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	.52	.39	.30
SN74ABT126RGYR	296-13889-2-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	173.00/1,000		
SN74ABT240ADBR	296-3959-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.48	.36	.27
SN74ABT240ADBR	296-3959-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	320.00/2,000		
SN74ABT240ADW	296-3960-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74ABT240ADWR	296-14662-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	.48	.36	.27
SN74ABT240ADWR	296-14662-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	320.00/2,000		
SN74ABT240AN	296-3961-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.48	.36	.27
SN74ABT240APWR	296-3962-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74ABT240APWR	296-3962-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74ABT241ADBR	296-3963-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.48	.36	.27
SN74ABT241ADBR	296-3963-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	320.00/2,000		
SN74ABT241ADW	296-3964-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74ABT241ADWR	296-14663-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	.48	.36	.27
SN74ABT241ADWR	296-14663-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	320.00/2,000		
SN74ABT241AN	296-3965-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.48	.36	.27
SN74ABT241APWR	296-3966-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74ABT241APWR	296-3966-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74ABT244ADBR	296-1037-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.48	.36	.27
SN74ABT244ADBR	296-1037-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	320.00/2,000		
SN74ABT244ADW	296-1038-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74ABT244ADWR	296-1038-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74ABT244ADWR	296-1038-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	320.00/2,000		
SN74ABT244AN	296-3967-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.48	.36	.27
SN74ABT244APWR	296-3968-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74ABT244APWR	296-3968-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74ABT245BDBR	296-1039-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.48	.36	.27
SN74ABT245BDBR	296-1039-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	320.00/2,000		
SN74ABT245BDGVR	296-3969-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.48	.36	.27
SN74ABT245BDGVR	296-3969-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	320.00/2,000		
SN74ABT245BDW	296-1040-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.36	.27
SN74ABT245BDWR	296-1040-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.36	.27
SN74ABT245BDWR	296-1040-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	320.00/2,000		
SN74ABT245BGQNR	296-12461-1-ND	Tri-State Octal Bus Transceiver	20-VFBGA	.48	.36	.27
SN74ABT245BGQNR	296-12461-2-ND	Tri-State Octal Bus Transceiver	20-VFBGA	160.00/1,000		
SN74ABT245BN	296-3970-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.48	.36	.27
SN74ABT245BPWR	296-3971-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.48	.36	.27
SN74ABT245BPWR	296-3971-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	320.00/2,000		
SN74ABT245BRGYR	296-13890-1-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	.60	.45	.34
SN74ABT245BRGYR	296-13890-2-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	200.00/1,000		
SN74ABT273DBR	296-1041-1-ND	Octal D-Type Flip-Flop	20-SSOP	.48	.36	.27
SN74ABT273DBR	296-1041-2-ND	Octal D-Type Flip-Flop	20-SSOP	320.00/2,000		
SN74ABT273DW	296-1042-5-ND	Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74ABT273DWR	296-1042-1-ND	Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74ABT273DWR	296-1042-2-ND	Octal D-Type Flip-Flop	20-SOIC	320.00/2,000		
SN74ABT273N	296-3972-5-ND	Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74ABT273PWR	296-3973-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74ABT273PWR	296-3973-2-ND	Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74ABT373DBR	296-4002-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.48	.36	.27
SN74ABT373DBR	296-4002-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	320.00/2,000		
SN74ABT373DW	296-1043-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.48	.36	.27
SN74ABT373DWR	296-1043-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.48	.36	.27
SN74ABT373DWR	296-1043-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	320.00/2,000		
SN74ABT373N	296-4003-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.48	.36	.27
SN74ABT373PWR	296-4004-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.48	.36	.27
SN74ABT373PWR	296-4004-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	320.00/2,000		
SN74ABT374ADBR	296-4005-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.48	.36	.27
SN74ABT374ADBR	296-4005-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	320.00/2,000		
SN74ABT374ADW	296-1044-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74ABT374ADWR	296-1044-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74ABT374ADWR	296-1044-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	320.00/2,000		
SN74ABT374AN	296-4006-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74ABT374APWR	296-4007-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74ABT374APWR	296-4007-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74ABT377ADBR	296-4008-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SSOP	.48	.36	.27
SN74ABT377ADBR	296-4008-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SSOP	320.00/2,000		
SN74ABT377ADW	296-4009-5-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	.48	.36	.27
SN74ABT377ADWR	296-4009-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	.48	.36	.27
SN74ABT377ADWR	296-4009-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	320.00/2,000		
SN74ABT377AN	296-4010-5-ND	Octal D-Type Flip-Flop w/Clock Enable	20-Dip	.48	.36	.27
SN74ABT377APWR	296-4011-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-TSSOP	.48	.36	.27
SN74ABT377APWR	296-4011-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-TSSOP	320.00/2,000		
SN74ABT533ADBR	296-4012-1-ND	Tri-State Transparent D-Type Latch	20-SSOP	1.05	.88	.70
SN74ABT533ADBR	296-4012-2-ND	Tri-State Transparent D-Type Latch	20-SSOP	932.00/2,000		
SN74ABT533ADW	296-4013-5-ND	Tri-State Transparent D-Type Latch	20-SOIC	1.05	.88	.70
SN74ABT533ADWR	296-4013-1-ND	Tri-State Transparent D-Type Latch	20-SOIC	1.05	.88	.70
SN74ABT533ADWR	296-4013-2-ND	Tri-State Transparent D-Type Latch	20-SOIC	932.00/2,000		
SN74ABT533APWR	296-4014-1-ND	Tri-State Transparent D-Type Latch	20-TSSOP	1.05	.88	.70
SN74ABT533APWR	296-4014-2-ND	Tri-State Transparent D-Type Latch	20-TSSOP	932.00/2,000		
SN74ABT534ADBR	296-4015-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	1.05	.88	.70
SN74ABT534ADBR	296-4015-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	932.00/2,000		
SN74ABT534ADW	296-4016-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1.05	.88	.70
SN74ABT534ADWR	296-4016-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1.05	.88	.70
SN74ABT534ADWR	296-4016-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	932.00/2,000		
SN74ABT534APWR	296-4017-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	1.05	.88	.70
SN74ABT534APWR	296-4017-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	932.00/2,000		
SN74ABT540DBR	296-4022-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74ABT540DBR	296-4022-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74ABT540DW	296-4023-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74ABT540DWR	296-14667-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	.56	.42	.32
SN74ABT540DWR	296-14667-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	372.00/2,000		
SN74ABT540N	296-4024-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74ABT541BDBR	296-4025-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74ABT541BDBR	296-4025-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74ABT541BDW	296-4026-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74ABT541BDWR	296-14668-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	.56	.42	.32
SN74ABT541BDWR	296-14668-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	372.00/2,000		
SN74ABT541BN	296-4027-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74ABT541BPWR	296-4028-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.56	.42	.32
SN74ABT541BPWR	296-4028-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74ABT543ADBR	296-4029-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	.90	.75	.60
SN74ABT543ADBR	296-4029-2-ND	Tri-State Octal Registered Transceiver	24-SSOP	798.00/2,000		
SN74ABT543ADW	296-4030-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	.90	.75	.60
SN74ABT543ADWR	296-14669-1-ND	Tri-State Octal Registered Transceiver *NEW!*	24-SOIC	.90	.75	.60
SN74ABT543ADWR	296-14669-2-ND	Tri-State Octal Registered Transceiver *NEW!*	24-SOIC	798.00/2,000		
SN74ABT543ANT	296-4031-5-ND	Tri-State Octal Registered Transceiver	24-Dip	.90	.75	.60
SN74ABT543APWR	296-4032-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	.90	.75	.60
SN74ABT543APWR	296-4032-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP	798.00/2,000		
SN74ABT573ADBR	296-4033-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.48	.36	.27
SN74ABT573ADBR	296-4033-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	320.00/2,000		
SN74ABT573ADW	296-1045-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.48	.36	.27
SN74ABT573ADWR	296-1045-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.48	.36	.27
SN74ABT573ADWR	296-1045-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	320.00/2,000		
SN74ABT573AGQNR	296-12087-1-ND	Tri-St. Octal Transparent D-Type Latch	20-BGA	.48	.36	.27
SN74ABT573AGQNR	296-12087-2-ND	Tri-St. Octal Transparent D-Type Latch	20-BGA	160.00/1,000		
SN74ABT573ARGYR	296-13891-1-ND	Tri-State Octal D-Type Latch *NEW!*	20-QFN	.60	.45	.34
SN74ABT573ARGYR	296-13891-2-ND	Tri-State Octal D-Type Latch *NEW!*	20-QFN	200.00/1,000		
SN74ABT573AN	296-4034-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.48	.36	.27
SN74ABT573APWR	296-4035-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.48	.36	.27
SN74ABT573APWR	296-4035-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	320.00/2,000		
SN74ABT574ADBR	296-4036-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.48	.36	.27
SN74ABT574ADBR	296-4036-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	320.00/2,000		
SN74ABT574ADW	296-1046-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74ABT574ADWR	296-1046-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74ABT574ADWR	296-1046-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	320.00/2,000		
SN74ABT574AGQNR	296-12088-1-ND	Tri-State Octal D-Type Flip-Flop	20-BGA	.48	.36	.27
SN74ABT574AGQNR	296-12088-2-ND	Tri-State Octal D-Type Flip-Flop	20-BGA	160.00/1,000		
SN74ABT574AN	296-4038-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74ABT574APWR	296-4039-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74ABT574APWR	296-4039-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74ABT574ARGYR	296-13892-1-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-QFN	.48	.36	.27
SN74ABT574ARGYR	296-13892-2-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-QFN	160.00/1,000		
SN74ABT620DBR	296-4040-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	2.36	1.89	1.47
SN74ABT620DBR	296-4040-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	2678.00/2,000		
SN74ABT620DW	296-4041-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	2.36	1.89	1.47
SN74ABT620N	296-4042-5-ND	Tri-State Octal Bus Transceiver	20-Dip	2.36	1.89	1.47
SN74ABT623DBR	296-4043-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	2.81	2.25	1.75
SN74ABT623DBR	296-4043-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	3188.00/2,000		
SN74ABT623DW	296-4044-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	2.81	2.25	1.75
SN74ABT623DWR	296-14672-1-ND	Tri-State Octal Bus Transceiver *NEW!*	20-SOIC	2.86	2.29	1.78
SN74ABT623DWR	296-14672-2-ND	Tri-State Octal Bus Transceiver *NEW!*	20-SOIC	3238.00/2,000		
SN74ABT623N	296-4045-5-ND	Tri-State Octal Bus Transceiver	20-Dip	2.81	2.25	1.75
SN74ABT640DBR	296-4046-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	2.36	1.89	1.47
SN74ABT640DBR	296-4046-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	2678.00/2,000		
SN74ABT640DW	296-4047-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	2.36	1.89	1.47
SN74ABT640DWR	296-14673-1-ND	Tri-State Octal Bus Transceiver *NEW!*	20-SOIC	2.41	1.93	1.50
SN74ABT640DWR	296-14673-2-ND	Tri-State Octal Bus Transceiver *NEW!*	20-SOIC	2728.00/2,000		
SN74ABT640N	296-4048-5-ND	Tri-State Octal Bus Transceiver	20-Dip	2.36	1.89	1.47
SN74ABT640PWR	296-4049-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	2.36	1.89	1.47
SN74ABT640PWR	296-4049-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	2678.00/2,000		
SN74ABT646ADBR	296-4050-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.38	1.10	.83
SN74ABT646ADBR	296-4050-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1430.00/2,000		
SN74ABT646ADGVR	296-4051-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP	1430.00/2,000		
SN74ABT646ADW	296-4052-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.38	1.10	.83
SN74ABT646ADWR	296-14674-1-ND	Tri-State Octal Bus Transceiver/ Register *NEW!*	24-SOIC	1.38	1.10	.83
SN74ABT646ADWR	296-14674-2-ND	Tri-State Octal Bus Transceiver/ Register *NEW!*	24-SOIC	1430.00/2,000		
SN74ABT646ANT	296-4053-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.38	1.10	.83
SN74ABT646DBR	296-4054-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	3.38	2.70	2.10
SN74ABT646DBR	296-4054-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	3826.00/2,000		
SN74ABT646DGVR	296-4055-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP	3.38	2.70	2.10
SN74ABT646DGVR	296-4055-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP	3826.00/2,000		
SN74ABT646DW	296-4056-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	3.38	2.70	2.10
SN74ABT646NT	296-4057-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	3.38	2.70	2.10
SN74ABT646PWR	296-4058-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	3.38	2.70	2.10
SN74ABT646PWR	296-4058-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	3826.00/2,000		
SN74ABT651DBR	296-4059-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	5.40	4.32	3.36
SN74ABT651DBR	296-4059-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	6120.00/2,000		
SN74ABT651DW	296-4060-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	5.40	4.32	3.36
SN74ABT651NT	296-4061-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	5.40	4.32	3.36
SN74ABT652ADBR	296-4062-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.38	1.10	.83
SN74ABT652ADBR	296-4062-2-ND	Tri-State Octal Registered Transceiver	24-SSOP	1430.00/2,000		
SN74ABT652ADW	296-1047-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.38	1.10	.83
SN74ABT652ADWR	296-1047-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.38	1.10	.83
SN74ABT652ADWR	296-1047-2-ND	Tri-State Octal Registered Transceiver	24-SOIC	1430.00/2,000		
SN74ABT652ANT	296-4063-5-ND	Tri-State Octal Registered Transceiver	24-Dip	1.38	1.10	.83
SN74ABT652DBR	296-4064-1-ND	Tri-State Octal Transceiver/Register	24-SSOP	1.38	1.10	.83
SN74ABT652DBR	296-4064-2-ND	Tri-State Octal Transceiver/Register	24-SSOP	1430.00/2,000		
SN74ABT652DW	296-4065-5-ND	Tri-State Octal Transceiver/Register	24-SOIC	1.38	1.10	.83
SN74ABT652DWR	296-4065-1-ND	Tri-State Octal Transceiver/Register	24-SOIC	1.38	1.10	.83
SN74ABT652DWR	296-4065-2-ND	Tri-State Octal Transceiver/Register	24-SOIC	1430.00/2,000		
SN74ABT652NT	296-4066-5-ND	Tri-State Octal Transceiver/Register	24-Dip	1.38	1.10	.83
SN74ABT657ADBR	296-4067-1-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SSOP	3.60	2.88	2.24
SN74ABT657ADBR	296-4067-2-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SSOP	4080.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABT657ADW	296-4068-5-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SOIC	3.60	2.88	2.24
SN74ABT657ADWR	296-14676-1-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator *NEW!*	24-SOIC	3.65	2.92	2.27
SN74ABT657ADWR	296-14676-2-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator *NEW!*	24-SOIC	4132.00/2,000		
SN74ABT657ANT	296-4069-5-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-Dip	3.60	2.88	2.24
SN74ABT821ADBR	296-4088-1-ND	Tri-St. 10-Bit Bus Interface Flip-Flop	24-SSOP	2.70	2.16	1.68
SN74ABT821ADBR	296-4088-2-ND	Tri-St. 10-Bit Bus Interface Flip-Flop	24-SSOP	3060.00/2,000		
SN74ABT821ADW	296-4089-5-ND	Tri-St. 10-Bit Bus Interface Flip-Flop	24-SOP	2.70	2.16	1.68
SN74ABT821ADWR	296-14677-1-ND	Tri-St. 10-Bit Bus Interface Flip-Flop *NEW!*	24-SOIC	2.75	2.20	1.71
SN74ABT821ADWR	296-14677-2-ND	Tri-St. 10-Bit Bus Interface Flip-Flop *NEW!*	24-SOIC	3112.00/2,000		
SN74ABT821ANT	296-4090-5-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-Dip	2.70	2.16	1.68
SN74ABT823DBR	296-1048-1-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SSOP	2.59	2.07	1.61
SN74ABT823DBR	296-1048-2-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SSOP	2932.00/2,000		
SN74ABT823DW	296-4091-5-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SOIC	2.59	2.07	1.61
SN74ABT823DWR	296-14678-1-ND	Tri-State 9-Bit Bus Interface Flip-Flop *NEW!*	24-SOIC	2.63	2.11	1.64
SN74ABT823DWR	296-14678-2-ND	Tri-State 9-Bit Bus Interface Flip-Flop *NEW!*	24-SOIC	2984.00/2,000		
SN74ABT823NT	296-4092-5-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-Dip	2.59	2.07	1.61
SN74ABT827DBR	296-4094-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	2.70	2.16	1.68
SN74ABT827DBR	296-4094-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	3060.00/2,000		
SN74ABT827DW	296-4095-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	2.70	2.16	1.68
SN74ABT827DWR	296-14680-1-ND	Tri-State 10-Bit Buffer/Driver *NEW!*	24-SOIC	2.75	2.20	1.71
SN74ABT827DWR	296-14680-2-ND	Tri-State 10-Bit Buffer/Driver *NEW!*	24-SOIC	3112.00/2,000		
SN74ABT827NT	296-4096-5-ND	Tri-State 10-Bit Buffer/Driver	24-Dip	2.70	2.16	1.68
SN74ABT827PWR	296-4097-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	2.70	2.16	1.68
SN74ABT827PWR	296-4097-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	3060.00/2,000		
SN74ABT833DW	296-4098-5-ND	8-9 Bit Parity Bus Transceiver	24-SOIC	2.97	2.38	1.85
SN74ABT833NT	296-4099-5-ND	8-9 Bit Parity Bus Transceiver	24-Dip	2.97	2.38	1.85
SN74ABT841ADBR	296-1049-1-ND	Tri-St. 10-Bit Bus D-Type Latch	24-SSOP	1.38	1.10	.83
SN74ABT841ADBR	296-1049-2-ND	Tri-St. 10-Bit Bus D-Type Latch	24-SSOP	1430.00/2,000		
SN74ABT841ADW	296-4100-5-ND	Tri-St. 10-Bit Bus D-Type Latch	24-SOIC	1.38	1.10	.83
SN74ABT841ADWR	296-14681-1-ND	Tri-St. 10-Bit Bus D-Type Latch *NEW!*	24-SOIC	1.38	1.10	.83
SN74ABT841ADWR	296-14681-2-ND	Tri-St. 10-Bit Bus D-Type Latch *NEW!*	24-SOIC	1430.00/2,000		
SN74ABT841ANT	296-4101-5-ND	Tri-St. 10-Bit Bus D-Type Latch	24-Dip	1.38	1.10	.83
SN74ABT841APWR	296-4102-1-ND	Tri-St. 10-Bit Bus D-Type Latch	24-TSSOP	1.38	1.10	.83
SN74ABT841APWR	296-4102-2-ND	Tri-St. 10-Bit Bus D-Type Latch	24-TSSOP	1430.00/2,000		
SN74ABT843DBR	296-4103-1-ND	Tri-State 9-Bit Bus D-Type Latch	24-SSOP	1.38	1.10	.83
SN74ABT843DBR	296-4103-2-ND	Tri-State 9-Bit Bus D-Type Latch	24-SSOP	1430.00/2,000		
SN74ABT843NT	296-4104-5-ND	Tri-State 9-Bit Bus D-Type Latch	24-Dip	1.38	1.10	.83
SN74ABT853DW	296-4105-5-ND	8-9 Bit Parity Bus Transceiver	24-SOIC	4.28	3.42	2.66
SN74ABT853NT	296-4106-5-ND	8-9 Bit Parity Bus Transceiver	24-Dip	4.28	3.42	2.66
SN74ABT861NT	296-4109-5-ND	Tri-State 10-Bit Transceiver	24-Dip	3.60	2.88	2.24
SN74ABT863DBR	296-4110-1-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	3.26	2.61	2.03
SN74ABT863DBR	296-4110-2-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	3698.00/2,000		
SN74ABT863DWR	296-4111-1-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	3.31	2.65	2.06
SN74ABT863DWR	296-4111-2-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	3748.00/2,000		
SN74ABT2240ADBR	296-3945-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.48	.36	.27
SN74ABT2240ADBR	296-3945-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	320.00/2,000		
SN74ABT2240ADW	296-3946-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.48	.36	.27
SN74ABT2240ADWR	296-3946-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.48	.36	.27
SN74ABT2240ADWR	296-3946-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	320.00/2,000		
SN74ABT2240ANSR	296-13128-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOP	.48	.36	.27
SN74ABT2240ANSR	296-13128-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOP	320.00/2,000		
SN74ABT2240APWR	296-3947-1-ND	Tri-St. Octal Buffer/Line/MOS Driver	20-TSSOP	.48	.36	.27
SN74ABT2240APWR	296-3947-2-ND	Tri-St. Octal Buffer/Line/MOS Driver	20-TSSOP	320.00/2,000		
SN74ABT2241DBR	296-3948-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.48	.36	.27
SN74ABT2241DBR	296-3948-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	320.00/2,000		
SN74ABT2241DW	296-3949-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.48	.36	.27
SN74ABT2241DWR	296-14660-1-ND	Tri-State Octal Buffer/Line/MOS Driver *NEW!*	20-SOIC	.48	.36	.27
SN74ABT2241DWR	296-14660-2-ND	Tri-State Octal Buffer/Line/MOS Driver *NEW!*	20-SOIC	320.00/2,000		
SN74ABT2241N	296-3950-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-Dip	.48	.36	.27
SN74ABT2241PWR	296-3951-1-ND	Tri-St. Octal Buffer/Line/MOS Driver	20-TSSOP	.48	.36	.27
SN74ABT2241PWR	296-3951-2-ND	Tri-St. Octal Buffer/Line/MOS Driver	20-TSSOP	320.00/2,000		
SN74ABT2244ADBR	296-1036-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.48	.36	.27
SN74ABT2244ADBR	296-1036-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	320.00/2,000		
SN74ABT2244ADWR	296-3952-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.48	.36	.27
SN74ABT2244ADWR	296-3952-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	320.00/2,000		
SN74ABT2244AN	296-3953-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-Dip	.48	.36	.27
SN74ABT2244APWR	296-3954-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.48	.36	.27
SN74ABT2244APWR	296-3954-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	320.00/2,000		
SN74ABT2245DBR	296-3955-1-ND	Tri-St. Octal Xcvr./Line/MOS Driver	20-SSOP	.48	.36	.27
SN74ABT2245DBR	296-3955-2-ND	Tri-St. Octal Xcvr./Line/MOS Driver	20-SSOP	320.00/2,000		
SN74ABT2245DW	296-3956-5-ND	Tri-St. Octal Xcvr./Line/MOS Driver	20-SOIC	.48	.36	.27
SN74ABT2245DWR	296-14661-1-ND	Tri-St. Octal Xcvr./Line/MOS Driver *NEW!*	20-SOIC	.48	.36	.27
SN74ABT2245DWR	296-14661-2-ND	Tri-St. Octal Xcvr./Line/MOS Driver *NEW!*	20-SOIC	320.00/2,000		
SN74ABT2245N	296-3957-5-ND	Tri-St. Octal Xcvr./Line/MOS Driver	20-Dip	.48	.36	.27
SN74ABT2245PWR	296-3958-1-ND	Tri-St. Octal Xcvr./Line/MOS Driver	20-TSSOP	.48	.36	.27
SN74ABT2245PWR	296-3958-2-ND	Tri-St. Octal Xcvr./Line/MOS Driver	20-TSSOP	320.00/2,000		
SN74ABT2827DWR	296-3974-1-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	3.76	3.01	2.34
SN74ABT2827DWR	296-3974-2-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	4258.00/2,000		
SN74ABT2952ADBR	296-3975-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	4.50	3.60	2.80
SN74ABT2952ADBR	296-3975-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	5100.00/2,000		
SN74ABT2952ADW	296-3976-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	4.50	3.60	2.80
SN74ABT2952ADWR	296-14665-1-ND	Tri-State Octal Bus Transceiver/Register *NEW!*	24-SOIC	4.55	3.64	2.83
SN74ABT2952ADWR	296-14665-2-ND	Tri-State Octal Bus Transceiver/Register *NEW!*	24-SOIC	5152.00/2,000		
SN74ABT2952ANT	296-3977-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	4.50	3.60	2.80
SN74ABT5400ADW	296-4018-1-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	3.15	2.52	1.96
SN74ABT5400ADW	296-4018-2-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	1785.00/1,000		
SN74ABT5401DW	296-4019-5-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	1785.00/1,000		
SN74ABT5402ADW	296-4020-1-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	3.38	2.70	2.10
SN74ABT5402ADW	296-4020-2-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	1913.00/1,000		
SN74ABT5403DW	296-4021-1-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	3.38	2.70	2.10
SN74ABT5403DW	296-4021-2-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	1913.00/1,000		
SN74ABT8245DW	296-4093-5-ND	Scan Test Device w/Octal Bus Transcvr.	24-SOIC	8.00	6.40	5.40
SN74ABT8245DWR	296-14679-1-ND	Scan Test Device w/Octal Bus Transcvr *NEW!*	24-SOIC	8.00	6.40	5.40
SN74ABT8245DWR	296-14679-2-ND	Scan Test Device w/Octal Bus Transcvr *NEW!*	24-SOIC	10000.00/2,000		
SN74ABT8543DL	296-4107-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SSOP	9.00	7.20	6.08
SN74ABT8543DW	296-4108-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SOIC	9.00	7.20	6.08
SN74ABT8646DL	296-4112-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SSOP	9.00	7.20	6.08
SN74ABT8646DW	296-4113-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SOIC	9.00	7.20	6.08
SN74ABT8652DL	296-4114-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SSOP	9.00	7.20	6.08
SN74ABT8952DL	296-4115-5-ND	Scan Test Device with Octal Bus Transceiver	28-SSOP	9.00	7.20	6.08
SN74ABT8952DW	296-4116-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SOIC	9.00	7.20	6.08
SN74ABT8996DW	296-4117-5-ND	10-Bit Addressable Scan Port	24-SOIC	8.33	7.50	6.65
SN74ABT8996DWR	296-4117-1-ND	10-Bit Addressable Scan Port	24-SOIC	8.33	7.50	6.65
SN74ABT8996DWR	296-4117-2-ND	10-Bit Addressable Scan Port	24-SOIC	12350.00/2,000		
SN74ABT8996PWR	296-4118-1-ND	10-Bit Addressable Scan Port	24-TSSOP	8.33	7.50	6.65
SN74ABT8996PWR	296-4118-2-ND	10-Bit Addressable Scan Port	24-TSSOP	12350.00/2,000		
SN74ABT16240ADGGR	296-3882-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.96	.80	.64
SN74ABT16240ADGGR	296-3882-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	852.00/2,000		
SN74ABT16240ADGVR	296-3883-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	.96	.80	.64
SN74ABT16240ADGVR	296-3883-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	852.00/2,000		
SN74ABT16240ADLR	296-3884-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.96	.80	.64
SN74ABT16240ADLR	296-3884-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	426.00/1,000		
SN74ABT16241ADGGR	296-3885-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.96	.80	.64
SN74ABT16241ADGGR	296-3885-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	852.00/2,000		
SN74ABT16241ADGVR	296-3886-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	.96	.80	.64
SN74ABT16241ADGVR	296-3886-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	852.00/2,000		
SN74ABT16241ADL	296-3887-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.96	.80	.64
SN74ABT16241ADLR	296-14651-1-ND	Tri-State 16-Bit Buffer/Driver *NEW!*	48-SSOP	.96	.80	.64
SN74ABT16241ADLR	296-14651-2-ND	Tri-State 16-Bit Buffer/Driver *NEW!*	48-SSOP	426.00/1,000		
SN74ABT16244ADGGR	296-1023-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.96	.80	.64
SN74ABT16244ADGGR	296-1023-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	852.00/2,000		
SN74ABT16244ADGVR	296-3888-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	.96	.80	.64
SN74ABT16244ADGVR	296-3888-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	852.00/2,000		
SN74ABT16244ADL	296-1024-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.96	.80	.64
SN74ABT16244ADLR	296-1024-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.96	.80	.64
SN74ABT16244ADLR	296-1024-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	426.00/1,000		
SN74ABT16245ADGGR	296-1025-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.96	.80	.64
SN74ABT16245ADGGR	296-1025-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	852.00/2,000		
SN74ABT16245ADGVR	296-3889-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	.96	.80	.64
SN74ABT16245ADGVR	296-3889-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	852.00/2,000		
SN74ABT16245ADL	296-1026-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.96	.80	.64
SN74ABT16245ADLR	296-1026-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.96	.80	.64
SN74ABT16245ADLR	296-1026-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	426.00/1,000		
SN74ABT16373ADGGR	296-3899-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	.96	.80	.64
SN74ABT16373ADGGR	296-3899-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	852.00/2,000		
SN74ABT16373ADL	296-1029-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	.96	.80	.64
SN74ABT16373ADLR	296-1029-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	.96	.80	.64
SN74ABT16373ADLR	296-1029-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	426.00/1,000		
SN74ABT16374ADGGR	296-3900-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	.96	.80	.64
SN74ABT16374ADGGR	296-3900-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	852.00/2,000		
SN74ABT16374ADL	296-1030-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	.96	.80	.64
SN74ABT16374ADLR	296-1030-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	.96	.80	.64
SN74ABT16374ADLR	296-1030-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	426.00/1,000		
SN74ABT16470DGGR	296-3901-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	8.00	6.40	5.40
SN74ABT16470DGGR	296-3901-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	10000.00/2,000		
SN74ABT16470DL	296-3902-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	8.00	6.40	5.40
SN74ABT16500BDGGR	296-3903-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2.38	1.90	1.43
SN74ABT16500BDGGR	296-3903-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2470.00/2,000		
SN74ABT16500BDL	296-3904-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.38	1.90	1.43
SN74ABT16500BDLR	296-14654-1-ND	Tri-State 18-Bit Univ. Bus Transceiver *NEW!*	56-SSOP	2.38	1.90	1.43
SN74ABT16500BDLR	296-14654-2-ND	Tri-State 18-Bit Univ. Bus Transceiver *NEW!*	56-SSOP	1235.00/1,000		
SN74ABT16501DGGR	296-3905-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	3.53	2.83	2.20
SN74ABT16501DGGR	296-3905-2-ND	Tri-State 18-Bit Univ. Bus Transceiver.	56-TSSOP	4004.00/2,000		
SN74ABT16501DLR	296-1031-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.53	2.83	2.20
SN74ABT16501DLR	296-1031-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2002.00/1,000		
SN74ABT16540ADGGR	296-3906-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	3.40	2.72	2.12
SN74ABT16540ADGGR	296-3906-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	3850.00/2,000		
SN74ABT16540ADGVR	296-3907-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	3.40	2.72	2.12
SN74ABT16540ADGVR	296-3907-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	3850.00/2,000		
SN74ABT16540ADL	296-3908-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	3.40	2.72	2.12
SN74ABT16540ADLR	296-14655-1-ND	Tri-State 16-Bit Buffer/Driver *NEW!*	48-SSOP	3.40	2.72	2.12
SN74ABT16540ADLR	296-14655-2-ND	Tri-State 16-Bit Buffer/Driver *NEW!*	48-SSOP	1925.00/1,000		
SN74ABT16541ADGGR	296-3909-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABT16541ADGGR	296-3909-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABT16541ADGVR	296-3910-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT16541ADGVR	296-3910-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT16541ADL	296-1032-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16541ADLR	296-1032-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16541ADLR	296-1032-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT16543DGGR	296-3911-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1.20	1.00	.80
SN74ABT16543DGGR	296-3911-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1064.00/2,000		
SN74ABT16543DLR	296-1033-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.20	1.00	.80
SN74ABT16543DLR	296-1033-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	532.00/1,000		
SN74ABT16600DLR	296-3912-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	7.04	5.64	4.76
SN74ABT16600DLR	296-3912-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4400.00/1,000		
SN74ABT16601DGGR	296-1034-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	3.71	2.97	2.31
SN74ABT16601DGGR	296-1034-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4208.00/2,000		
SN74ABT16601DL	296-3913-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.71	2.97	2.31
SN74ABT16601DLR	296-14656-1-ND	Tri-State 18-Bit Univ. Bus Transceiver *NEW!*	56-SSOP	3.71	2.97	2.31
SN74ABT16601DLR	296-14656-2-ND	Tri-State 18-Bit Univ. Bus Transceiver *NEW!*	56-SSOP	2104.00/1,000		
SN74ABT16623DGGR	296-3914-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3.71	2.97	2.31
SN74ABT16623DGGR	296-3914-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4208.00/2,000		
SN74ABT16623DL	296-3915-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3.71	2.97	2.31

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABT16623DLR	296-3915-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3.71	2.97	2.31
SN74ABT16623DLR	296-3915-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2104.00/1,000		
SN74ABT16640DGGR	296-3916-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5.18	4.14	3.22
SN74ABT16640DGGR	296-3916-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5866.00/2,000		
SN74ABT16640DLR	296-3917-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.22	4.18	3.25
SN74ABT16640DLR	296-3917-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2958.00/1,000		
SN74ABT16646DGGR	296-3918-1-ND	Tri-St. 16-Bit Bus Transcvr./Register	56-TSSOP	2.36	1.89	1.47
SN74ABT16646DGGR	296-3918-2-ND	Tri-St. 16-Bit Bus Transcvr./Register	56-TSSOP	2678.00/2,000		
SN74ABT16646DLR	296-1035-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.36	1.89	1.47
SN74ABT16646DLR	296-1035-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1339.00/1,000		
SN74ABT16652DL	296-3919-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	5.18	4.14	3.22
SN74ABT16652DLR	296-14657-1-ND	Tri-St. 16-Bit Bus Transceiver/Register *NEW!*	56-SSOP	5.22	4.18	3.25
SN74ABT16652DLR	296-14657-2-ND	Tri-St. 16-Bit Bus Transceiver/Register *NEW!*	56-SSOP	2958.00/1,000		
SN74ABT16657DGGR	296-3920-1-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-TSSOP	5.18	4.14	3.22
SN74ABT16657DGGR	296-3920-2-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-TSSOP	5866.00/2,000		
SN74ABT16657DLR	296-3921-1-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-SSOP	5.22	4.18	3.25
SN74ABT16657DLR	296-3921-2-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-SSOP	2958.00/1,000		
SN74ABT16821DGGR	296-3922-1-ND	Tri-St. 20-Bit Bus-Interface Flip-Flop	56-TSSOP	5.40	4.32	3.36
SN74ABT16821DGGR	296-3922-2-ND	Tri-St. 20-Bit Bus-Interface Flip-Flop	56-TSSOP	6120.00/2,000		
SN74ABT16821DLR	296-3923-1-ND	Tri-St. 20-Bit Bus-Interface Flip-Flop	56-SSOP	5.45	4.36	3.39
SN74ABT16821DLR	296-3923-2-ND	Tri-St. 20-Bit Bus-Interface Flip-Flop	56-SSOP	3086.00/1,000		
SN74ABT16823DGGR	296-3924-1-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	2.38	1.90	1.43
SN74ABT16823DGGR	296-3924-2-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	2470.00/2,000		
SN74ABT16823DLR	296-3925-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	2.38	1.90	1.43
SN74ABT16823DLR	296-3925-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	1235.00/1,000		
SN74ABT16825DL	296-3926-5-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	5.18	4.14	3.22
SN74ABT16825DLR	296-14658-1-ND	Tri-State 18-Bit Buffer/Driver *NEW!*	56-SSOP	5.22	4.18	3.25
SN74ABT16825DLR	296-14658-2-ND	Tri-State 18-Bit Buffer/Driver *NEW!*	56-SSOP	2958.00/1,000		
SN74ABT16827DLR	296-3928-1-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	2.38	1.90	1.43
SN74ABT16827DLR	296-3928-2-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	1235.00/1,000		
SN74ABT16833DLR	296-3929-1-ND	Dual 8-9 Bit Parity Bus Transceiver	56-SSOP	5.22	4.18	3.25
SN74ABT16833DLR	296-3929-2-ND	Dual 8-9 Bit Parity Bus Transceiver	56-SSOP	2958.00/1,000		
SN74ABT16841DL	296-3930-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	3.94	3.15	2.45
SN74ABT16841DLR	296-14659-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch *NEW!*	56-SSOP	3.94	3.15	2.45
SN74ABT16841DLR	296-14659-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch *NEW!*	56-SSOP	2231.00/1,000		
SN74ABT16843DGGR	296-3931-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	5.18	4.14	3.22
SN74ABT16843DGGR	296-3931-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	5866.00/2,000		
SN74ABT16843DLR	296-3932-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	5.22	4.18	3.25
SN74ABT16843DLR	296-3932-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2958.00/1,000		
SN74ABT16853DLR	296-3933-1-ND	Dual 8-9 Bit Parity Transceiver	56-SSOP	7.64	6.12	5.16
SN74ABT16853DLR	296-3933-2-ND	Dual 8-9 Bit Parity Transceiver	56-SSOP	4775.00/1,000		
SN74ABT16863DLR	296-3934-1-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	5.84	4.68	3.95
SN74ABT16863DLR	296-3934-2-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	3650.00/1,000		
SN74ABT16952DGGR	296-3935-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	2.93	2.34	1.82
SN74ABT16952DGGR	296-3935-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	3316.00/2,000		
SN74ABT16952DLR	296-3936-1-ND	Tri-St. 16-Bit Registered Transceiver	56-SSOP	2.93	2.34	1.82
SN74ABT16952DLR	296-3936-2-ND	Tri-St. 16-Bit Registered Transceiver	56-SSOP	1658.00/1,000		
SN74ABT18245ADGGR	296-3937-1-ND	Scan Test Device with 18-Bit Bus Transceiver	56-TSSOP	9.16	8.25	7.32
SN74ABT18245ADGGR	296-3937-2-ND	Scan Test Device with 18-Bit Bus Transceiver	56-TSSOP	13586.00/2,000		
SN74ABT18245ADL	296-3938-5-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	9.16	8.25	7.32
SN74ABT18245ADLR	296-3938-1-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	9.20	8.28	7.35
SN74ABT18245ADLR	296-3938-2-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	6817.00/1,000		
SN74ABT18502PM	296-3939-ND	Scan Test Device with 18-Bit Reg. Bus Transceiver *NEW!*	64-LQFP	14.99	13.50	11.97
SN74ABT18504PM	296-3940-ND	Scan Test Device with 20-Bit Universal Bus Transceiver *NEW!*	64-LQFP	13.33	12.00	10.64
SN74ABT18640DGGR	296-3941-1-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-TSSOP	9.58	8.63	7.65
SN74ABT18640DGGR	296-3941-2-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-TSSOP	14202.00/2,000		
SN74ABT18640DL	296-3942-5-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-SSOP	9.58	8.63	7.65
SN74ABT18646PM	296-3943-ND	Scan Test Device with 18-Bit Reg. Transceiver *NEW!*	64-LQFP	15.24	13.73	12.17
SN74ABT18652PM	296-3944-ND	Scan Test Device with 18-Bit Reg. Transceiver *NEW!*	64-LQFP	15.24	13.73	12.17
SN74ABT162244DGGR	296-9752-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.96	.80	.64
SN74ABT162244DGGR	296-9752-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	852.00/2,000		
SN74ABT162244DGVR	296-3881-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	.96	.80	.64
SN74ABT162244DGVR	296-3881-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	852.00/2,000		
SN74ABT162244DL	296-1021-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.96	.80	.64
SN74ABT162244DLR	296-1021-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.96	.80	.64
SN74ABT162244DLR	296-1021-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	426.00/1,000		
SN74ABT162245DGGR	296-9753-1-ND	Tri-State 16-Bit Transceiver	48-TSSOP	.96	.80	.64
SN74ABT162245DGGR	296-9753-2-ND	Tri-State 16-Bit Transceiver	48-TSSOP	852.00/2,000		
SN74ABT162245DL	296-9754-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.96	.80	.64
SN74ABT162245DLR	296-1022-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.96	.80	.64
SN74ABT162245DLR	296-1022-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	426.00/1,000		
SN74ABT162500DL	296-3890-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.53	2.83	2.20
SN74ABT162500DLR	296-14652-1-ND	Tri-State 18-Bit Univ. Bus Transceiver *NEW!*	56-SSOP	3.53	2.83	2.20
SN74ABT162500DLR	296-14652-2-ND	Tri-State 18-Bit Univ. Bus Transceiver *NEW!*	56-SSOP	2002.00/1,000		
SN74ABT162501DGGR	296-3891-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	3.53	2.83	2.20
SN74ABT162501DGGR	296-3891-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4004.00/2,000		
SN74ABT162501DLR	296-1027-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.53	2.83	2.20
SN74ABT162501DLR	296-1027-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2002.00/1,000		
SN74ABT162601DGG	296-3892-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	3.15	2.52	1.96
SN74ABT162601DGGR	296-3892-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	3570.00/2,000		
SN74ABT162601DLR	296-1028-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.15	2.52	1.96
SN74ABT162601DLR	296-1028-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1785.00/1,000		
SN74ABT162823ADGGR	296-3893-1-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	3.94	3.15	2.45
SN74ABT162823ADGGR	296-3893-2-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	4462.00/2,000		
SN74ABT162823ADLR	296-3894-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	3.94	3.15	2.45
SN74ABT162823ADLR	296-3894-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	2231.00/1,000		
SN74ABT162827ADGGR	296-3895-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	5.40	4.32	3.36
SN74ABT162827ADGGR	296-3895-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	6120.00/2,000		
SN74ABT162827ADL	296-3896-5-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	5.40	4.32	3.36
SN74ABT162841DGGR	296-3897-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	5.00	4.00	3.38
SN74ABT162841DGGR	296-3897-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	6250.00/2,000		
SN74ABT162841DL	296-3898-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	5.00	4.00	3.38

ABTE Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABTE16245DGGR	296-9755-1-ND	Tri-St. 16-Bit Bus Transceiver	48-TSSOP	6.00	4.80	4.05
SN74ABTE16245DGGR	296-9755-2-ND	Tri-St. 16-Bit Bus Transceiver	48-TSSOP	7500.00/2,000		
SN74ABTE16245DL	296-9756-5-ND	Tri-St. 16-Bit Bus Transceiver	48-SSOP	6.00	4.80	4.05
SN74ABTE16246DGGR	296-4119-1-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-TSSOP	8.20	6.56	5.54
SN74ABTE16246DGGR	296-4119-2-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-TSSOP	10250.00/2,000		
SN74ABTE16246DL	296-4120-5-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	8.20	6.56	5.54
SN74ABTE16246DLR	296-4120-1-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	8.24	6.60	5.57
SN74ABTE16246DLR	296-4120-2-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	5150.00/1,000		

ABTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABTH245DBR	296-4138-1-ND	Tri-State Octal Bus Transceiver	64-SSOP	1.02	.85	.68
SN74ABTH245DBR	296-4138-2-ND	Tri-State Octal Bus Transceiver	64-SSOP	904.00/2,000		
SN74ABTH245DGVR	296-4139-1-ND	Tri-State Octal Bus Transceiver	64-TVSOP	1.02	.85	.68
SN74ABTH245DGVR	296-4139-2-ND	Tri-State Octal Bus Transceiver	64-TVSOP	904.00/2,000		
SN74ABTH245DWR	296-4140-1-ND	Tri-State Octal Bus Transceiver	64-SOIC	1.02	.85	.68
SN74ABTH245DWR	296-4140-2-ND	Tri-State Octal Bus Transceiver	64-SOIC	904.00/2,000		
SN74ABTH245N	296-4141-5-ND	Tri-State Octal Bus Transceiver	64-Dip	1.02	.85	.68
SN74ABTH245PWR	296-4142-1-ND	Tri-State Octal Bus Transceiver	64-TSSOP	1.02	.85	.68
SN74ABTH245PWR	296-4142-2-ND	Tri-State Octal Bus Transceiver	64-TSSOP	904.00/2,000		
SN74ABTH25245DW	296-4143-5-ND	Tri-State 25-Ohm Octal Bus Transceiver	24-SOIC	4.39	3.51	2.73
SN74ABTH25245NT	296-4144-5-ND	Tri-State 25-Ohm Octal Bus Transceiver	24-Dip	4.39	3.51	2.73
SN74ABTH32245PZ	296-4145-ND	Tri-State 36-Bit Bus Transceiver	100-LQFP	15.83	14.25	12.64
SN74ABTH32316PN	296-4146-ND	Tri-Port 16-Bit Univ. Bus Exchanger	80-LQFP	14.16	12.75	11.31
SN74ABTH32543PZ	296-4147-ND	Tri-State 36-Bit Reg. Bus Transceiver	100-LQFP	15.75	14.70	13.65
SN74ABTH16244DGGR	296-4122-1-ND	Tri-State 16-Bit Bus Buffer/Driver	48-TSSOP	2.03	1.62	1.22
SN74ABTH16244DGGR	296-4122-2-ND	Tri-State 16-Bit Bus Buffer/Driver	48-TSSOP	2106.00/2,000		
SN74ABTH16244DL	296-4123-5-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	2.03	1.62	1.22
SN74ABTH16244DLR	296-4123-1-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	2.03	1.62	1.22
SN74ABTH16244DLR	296-4123-2-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	1053.00/1,000		
SN74ABTH16245DGGR	296-4124-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.03	1.62	1.22
SN74ABTH16245DGGR	296-4124-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2106.00/2,000		
SN74ABTH16245DGVR	296-4125-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.03	1.62	1.22
SN74ABTH16245DGVR	296-4125-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2106.00/2,000		
SN74ABTH16245DL	296-4126-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.03	1.62	1.22
SN74ABTH16260DL	296-1446-5-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	1.75	1.40	1.05
SN74ABTH16260DLR	296-1446-1-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	1.75	1.40	1.05
SN74ABTH16260DLR	296-1446-2-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	910.00/1,000		
SN74ABTH16460DGGR	296-4127-1-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-TSSOP	7.70	6.16	5.20
SN74ABTH16460DGGR	296-4127-2-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-TSSOP	9626.00/2,000		
SN74ABTH16460DL	296-4128-5-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	7.70	6.16	5.20
SN74ABTH16823DGGR	296-4129-1-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	5.20	4.16	3.51
SN74ABTH16823DGGR	296-4129-2-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	6500.00/2,000		
SN74ABTH16823DLR	296-4130-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	5.24	4.20	3.54
SN74ABTH16823DLR	296-4130-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	3275.00/1,000		
SN74ABTH32318PN	296-1447-5-ND	18-Bit Tri-Port Univ Bus Exchange	80-LQFP	14.58	13.13	11.64
SN74ABTH32501PZ	296-1448-5-ND	36-Bit Bus Transceiver	100-LQFP	16.50	15.40	14.30
SN74ABTH162245DGGR	296-1050-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.03	1.62	1.22
SN74ABTH162245DGGR	296-1050-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2106.00/2,000		
SN74ABTH162245DGVR	296-4121-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.03	1.62	1.22
SN74ABTH162245DGVR	296-4121-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2106.00/2,000		
SN74ABTH162245DL	296-1445-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.03	1.62	1.22
SN74ABTH162260DLR	296-1051-1-ND	12-24-Bit Mux D-Type Latch	56-SSOP	3.38	2.70	2.10
SN74ABTH162260DLR	296-1051-2-ND	Tri-State 12-24 Bit Mux. D-Type Latch	56-SSOP	1913.00/1,000		
SN74ABTH182502APM	296-4131-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-TQFP	12.66	11.40	10.11
SN74ABTH182504APM	296-4132-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-TQFP	12.66	11.40	10.11
SN74ABTH182646APM	296-4133-ND	Scan Test Device with 18-Bit Transceiver/Register	64-TQFP	13.74	12.38	10.98
SN74ABTH18502APM	296-4134-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-TQFP	12.66	11.40	10.11
SN74ABTH18502APMR	296-14683-1-ND	Scan Test Device with 18-Bit Universal Bus Transceiver *NEW!*	64-LQFP	12.66	11.40	10.11
SN74ABTH18502APMR	296-14683-2-ND	Scan Test Device with 18-Bit Universal Bus Transceiver *NEW!*	64-LQFP	9386.00/1,000		
SN74ABTH18504APM	296-4135-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-TQFP	12.66	11.40	10.11
SN74ABTH18646APM	296-4136-ND	Scan Test Device with 18-Bit Transceiver/Register	64-TQFP	13.74	12.38	10.98
SN74ABTH18652APM	296-4137-ND	Scan Test Device with 18-Bit Transceiver/Register	64-TQFP	13.74	12.38	10.98
SN74ABTH25245DWR	296-14684-1-ND	Tri-State 25 Ohm Octal Bus Transceiver *NEW!*	24-SOIC	4.43	3.55	2.76
SN74ABTH25245DWR	296-14684-2-ND	Tri-State 25 Ohm Octal Bus Transceiver *NEW!*	24-SOIC	5024.00/2,000		

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ABTR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABTR2245DBR	296-4148-1-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-SSOP	1.05	.88	.70
SN74ABTR2245DBR	296-4148-2-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-SSOP		932.00/2,000	
SN74ABTR2245DW	296-4149-5-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-SOIC	1.05	.88	.70
SN74ABTR2245PWR	296-4150-1-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-TSSOP	1.05	.88	.70
SN74ABTR2245PWR	296-4150-2-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-TSSOP		932.00/2,000	

AC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AC11004DW	296-4152-5-ND	Hex Inverter *NEW!*	20-SOIC	1.05	.88	.70
74AC11004DWR	296-4152-1-ND	Hex Inverter *NEW!*	20-SOIC	1.05	.88	.70
74AC11004DWR	296-4152-2-ND	Hex Inverter *NEW!*	20-SOIC		932.00/2,000	
74AC11004N	296-4153-5-ND	Hex Inverter *NEW!*	20-Dip	1.05	.88	.70
74AC11008N	296-4154-5-ND	Quad 2-Input Pos. AND Gate *NEW!*	16-Dip	1.05	.88	.70
74AC11008PWR	296-4155-1-ND	Quad 2-Input Pos. AND Gate *NEW!*	16-TSSOP	1.05	.88	.70
74AC11008PWR	296-4155-2-ND	Quad 2-Input Pos. AND Gate *NEW!*	16-TSSOP		932.00/2,000	
74AC11032D	296-4156-5-ND	Quad 2-Input OR Gate	16-SOIC	1.05	.88	.70
74AC11032DBR	296-4157-1-ND	Quad 2-Input OR Gate	16-SSOP	1.05	.88	.70
74AC11032DBR	296-4157-2-ND	Quad 2-Input OR Gate	16-SSOP		932.00/2,000	
74AC11032N	296-4158-5-ND	Quad 2-Input OR Gate	16-Dip	1.05	.88	.70
74AC11074D	296-4159-5-ND	Dual D-Type Flip-Flop	14-SOIC	1.14	.95	.76
74AC11074PWR	296-4160-1-ND	Dual D-Type Flip-Flop	14-TSSOP	1.14	.95	.76
74AC11074PWR	296-4160-2-ND	Dual D-Type Flip-Flop	14-TSSOP		1010.00/2,000	
74AC11086D	296-4161-5-ND	Quad 2-Input Exclusive OR Gate *NEW!*	16-SOIC	1.14	.95	.76
74AC11138N	296-4162-5-ND	3-8 Decoder/Demultiplexer	16-Dip	1.35	1.13	.90
74AC11138PWR	296-4163-1-ND	3-8 Decoder/Demultiplexer	16-TSSOP	1.35	1.13	.90
74AC11138PWR	296-4163-2-ND	3-8 Decoder/Demultiplexer	16-TSSOP		1198.00/2,000	
74AC11240DBR	296-4167-1-ND	Octal Buffer/Line Driver	24-SSOP	1.70	1.36	1.02
74AC11240DBR	296-4167-2-ND	Octal Buffer/Line Driver	24-SSOP		1768.00/2,000	
74AC11244DBR	296-4168-1-ND	Octal Buffer/Line Driver	24-SSOP	1.70	1.36	1.02
74AC11244DBR	296-4168-2-ND	Octal Buffer/Line Driver	24-SSOP		1768.00/2,000	
74AC11244DW	296-4169-5-ND	Octal Buffer/Line Driver	24-SOIC	1.70	1.36	1.02
74AC11244PWR	296-1000-1-ND	Octal Buffer/Line Driver	24-TSSOP	1.70	1.36	1.02
74AC11244PWR	296-1000-2-ND	Octal Buffer/Line Driver	24-TSSOP		1768.00/2,000	
74AC11245DW	296-4170-5-ND	Octal Bus Transceiver	24-SOIC	1.83	1.46	1.10
74AC16244DL	296-4173-5-ND	16-Bit Buffer/Line Driver	48-SSOP	1.11	.93	.74
74AC16244DLR	296-14452-1-ND	16-Bit Buffer/Line Driver *NEW!*	48-SSOP	1.11	.93	.74
74AC16244DLR	296-14452-2-ND	16-Bit Buffer/Line Driver *NEW!*	48-SSOP		492.00/1,000	
74AC16245DL	296-4174-5-ND	16-Bit Bus Transceiver	48-SSOP	1.11	.93	.74
74AC16374DLR	296-14453-1-ND	Tri-St. 16-Bit D-Type Flip-Flop *NEW!*	48-SSOP	1.11	.93	.74
74AC16374DLR	296-14453-2-ND	Tri-St. 16-Bit D-Type Flip-Flop *NEW!*	48-SSOP		492.00/1,000	
CD74AC00E	296-4214-5-ND	Quad 2-Input NAND Gate	14-Dip	.36	.29	.20
CD74AC00M	296-4215-5-ND	Quad 2-Input NAND Gate	14-SOP	.36	.29	.20
CD74AC00M96	296-4215-1-ND	Quad 2-Input NAND Gate	14-SOP	.36	.29	.20
CD74AC00M96	296-4215-2-ND	Quad 2-Input NAND Gate	14-SOP		235.00/2,500	
CD74AC02M96	296-4216-1-ND	Quad 2-Input NOR Gate	14-SOP	.36	.29	.20
CD74AC02M96	296-4216-2-ND	Quad 2-Input NOR Gate	14-SOP		235.00/2,500	
CD74AC04E	296-4217-5-ND	Hex Inverter	14-Dip	.36	.29	.20
CD74AC04M96	296-4218-1-ND	Hex Inverter	14-SOP	.36	.29	.20
CD74AC04M96	296-4218-2-ND	Hex Inverter	14-SOP		235.00/2,500	
CD74AC05E	296-4219-5-ND	Hex Inverter	14-Dip	.36	.29	.20
CD74AC05M	296-4220-5-ND	Hex Inverter	14-SOP	.36	.29	.20
CD74AC08M	296-1377-5-ND	Quad 2-Input AND Gate	14-SOIC	.36	.29	.20
CD74AC08M96	296-14477-1-ND	Quad 2-Input AND Gate *NEW!*	14-SOIC	.36	.29	.20
CD74AC08M96	296-14477-2-ND	Quad 2-Input AND Gate *NEW!*	14-SOIC		235.00/2,500	
CD74AC10M	296-4222-5-ND	Triple 3-Input NAND Gate	14-SOP	.36	.29	.20
CD74AC10M96	296-4222-1-ND	Triple 3-Input NAND Gate	14-SOP	.36	.29	.20
CD74AC10M96	296-4222-2-ND	Triple 3-Input NAND Gate	14-SOP		235.00/2,500	
CD74AC14M	296-1981-5-ND	Hex Inverter Schmitt Trigger	14-SOP	.36	.29	.20
CD74AC14M96	296-1981-1-ND	Hex Inverter Schmitt Trigger	14-SOP	.36	.29	.20
CD74AC14M96	296-1981-2-ND	Hex Inverter Schmitt Trigger	14-SOP		235.00/2,500	
CD74AC20E	296-4237-5-ND	Dual 4-Input NAND Gate	14-Dip	.36	.29	.20
CD74AC20M	296-4238-5-ND	Dual 4-Input NAND Gate	14-SOP	.36	.29	.20
CD74AC32M96	296-1985-1-ND	Quad 2-Input OR Gate	14-SOP	.36	.29	.20
CD74AC32M96	296-1985-2-ND	Quad 2-Input OR Gate	14-SOP		235.00/2,500	
CD74AC74M	296-4249-5-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOP	.36	.29	.20
CD74AC74M96	296-14484-1-ND	Dual D-Type Flip-Flop with Set/Reset *NEW!*	14-SOIC	.36	.29	.20
CD74AC74M96	296-14484-2-ND	Dual D-Type Flip-Flop with Set/Reset *NEW!*	14-SOIC		235.00/2,500	
CD74AC109M96	296-4221-1-ND	Dual JK Flip-Flop with Set/Reset	16-SOP	.36	.29	.20
CD74AC109M96	296-4221-2-ND	Dual JK Flip-Flop with Set/Reset	16-SOP		235.00/2,500	
CD74AC112E	296-4223-5-ND	Dual JK Flip-Flop with Set/Reset	16-Dip	.48	.36	.27
CD74AC112M	296-4224-5-ND	Dual JK Flip-Flop with Set/Reset	16-SOP	.48	.36	.27
CD74AC138E	296-4225-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.46	.37	.26
CD74AC138M	296-4226-5-ND	3-8 Line Decoder/Demultiplexer	16-SOP	.46	.37	.26
CD74AC139M96	296-4227-1-ND	2-4 Line Decoder/Demultiplexer	16-SOP	.46	.37	.26
CD74AC139M96	296-4227-2-ND	2-4 Line Decoder/Demultiplexer	16-SOP		297.50/2,500	
CD74AC151M96	296-4228-1-ND	8-Input Multiplexer	16-SOP	.56	.42	.32
CD74AC151M96	296-4228-2-ND	8-Input Multiplexer	16-SOP		455.00/2,500	
CD74AC153M96	296-4229-1-ND	Dual 4-Input Multiplexer	16-SOP	.56	.42	.32
CD74AC153M96	296-4229-2-ND	Dual 4-Input Multiplexer	16-SOP		455.00/2,500	
CD74AC157E	296-4230-5-ND	Quad 2-Input Multiplexer	16-Dip	.52	.39	.30
CD74AC157M	296-4231-5-ND	Quad 2-Input Multiplexer	16-SOP	.52	.39	.30
CD74AC161M	296-4232-5-ND	4-Bit Synchronous Binary Counter	16-SOP	.56	.42	.32
CD74AC163E	296-4233-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.56	.42	.32
CD74AC163M96	296-4234-1-ND	4-Bit Synchronous Binary Counter	16-SOP	.56	.42	.32
CD74AC163M96	296-4234-2-ND	4-Bit Synchronous Binary Counter	16-SOP		455.00/2,500	
CD74AC164E	296-4235-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.56	.42	.32
CD74AC174E	296-4236-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.56	.42	.32
CD74AC238M96	296-4239-1-ND	3-8 Line Decoder/Demux	16-SOP	1.20	1.00	.80
CD74AC238M96	296-4239-2-ND	3-8 Line Decoder/Demux	16-SOP		1300.00/2,500	
CD74AC240M	296-4240-5-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.50	.40	.30
CD74AC244M96	296-14479-1-ND	Tri-St. Non-Inverting Octal Buffer/Line Driver *NEW!*	20-SOIC	.50	.40	.30
CD74AC244M96	296-14479-2-ND	Tri-St. Non-Inverting Octal Buffer/Line Driver *NEW!*	20-SOIC		280.00/2,000	
CD74AC245M96	296-14480-1-ND	Tri-State Non-Inverting Octal Bus Transceiver *NEW!*	20-SOIC	.50	.40	.30
CD74AC245M96	296-14480-2-ND	Tri-State Non-Inverting Octal Bus Transceiver *NEW!*	20-SOIC		280.00/2,000	
CD74AC253M	296-4242-5-ND	Tri-State Dual 4-Input Mux	16-SOP	.54	.41	.31
CD74AC257M	296-4243-5-ND	Tri-State Quad 2-Input Mux	16-SOP	.54	.41	.31
CD74AC273E	296-1378-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.50	.40	.30
CD74AC273M96	296-14481-1-ND	Octal D-Type Flip-Flop with Reset *NEW!*	20-SOIC	.50	.40	.30
CD74AC273M96	296-14481-2-ND	Octal D-Type Flip-Flop with Reset *NEW!*	20-SOIC		280.00/2,000	
CD74AC280E	296-4245-5-ND	9-Bit Odd/Even Parity-Generator/Checker	14-Dip	.54	.41	.31
CD74AC280M96	296-4246-1-ND	9-Bit Odd/Even Parity-Generator/Checker	14-SOP	.54	.41	.31
CD74AC280M96	296-4246-2-ND	9-Bit Odd/Even Parity-Generator/Checker	14-SOP		440.00/2,500	
CD74AC373M96	296-14482-1-ND	Tri-St. Octal Transparent Latch *NEW!*	20-SOIC	.50	.40	.30
CD74AC373M96	296-14482-2-ND	Tri-St. Octal Transparent Latch *NEW!*	20-SOIC		280.00/2,000	
CD74AC374M	296-9411-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.50	.40	.30
CD74AC534M96	296-4247-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.56	.42	.32
CD74AC534M96	296-4247-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOP		372.00/2,000	
CD74AC541E	296-4248-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.40	.30
CD74AC573E	296-1379-5-ND	Octal Transparent Latch	20-Dip	.50	.40	.30
CD74AC573M96	296-14483-1-ND	Octal Transparent Latch *NEW!*	20-SOIC	.50	.40	.30
CD74AC573M96	296-14483-2-ND	Octal Transparent Latch *NEW!*	20-SOIC		280.00/2,000	
SN74AC00D	296-1052-5-ND	Quad 2-Input NAND Gate	14-SOIC	.36	.29	.20
SN74AC00DR	296-1052-1-ND	Quad 2-Input NAND Gate	14-SOIC	.36	.29	.20
SN74AC00DR	296-1052-2-ND	Quad 2-Input NAND Gate	14-SOIC		235.00/2,500	
SN74AC00N	296-4287-5-ND	Quad 2-Input NAND Gate	14-Dip	.36	.29	.20
SN74AC00PWR	296-4288-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.36	.29	.20
SN74AC00PWR	296-4288-2-ND	Quad 2-Input NAND Gate	14-TSSOP		198.00/2,000	
SN74AC04D	296-1053-5-ND	Hex Inverter	14-SOIC	.36	.29	.20
SN74AC04DR	296-1053-1-ND	Hex Inverter	14-SOIC	.36	.29	.20
SN74AC04DR	296-1053-2-ND	Hex Inverter	14-SOIC		235.00/2,500	
SN74AC04DBR	296-4289-1-ND	Hex Inverter	14-SSOP	.36	.29	.20
SN74AC04DBR	296-4289-2-ND	Hex Inverter	14-SSOP		198.00/2,000	
SN74AC04N	296-4290-5-ND	Hex Inverter	14-Dip	.36	.29	.20
SN74AC04PWR	296-1054-1-ND	Hex Inverter	14-TSSOP	.36	.29	.20
SN74AC04PWR	296-1054-2-ND	Hex Inverter	14-TSSOP		198.00/2,000	
SN74AC08DBR	296-4291-1-ND	Quad 2-Input AND Gate	14-SSOP	.36	.29	.20
SN74AC08DBR	296-4291-2-ND	Quad 2-Input AND Gate	14-SSOP		198.00/2,000	
SN74AC08DR	296-1055-1-ND	Quad 2-Input AND Gate	14-SOIC	.36	.29	.20
SN74AC08DR	296-1055-2-ND	Quad 2-Input AND Gate	14-SOIC		235.00/2,500	
SN74AC08PWR	296-4292-1-ND	Quad 2-Input AND Gate	14-TSSOP	.36	.29	.20
SN74AC08PWR	296-4292-2-ND	Quad 2-Input AND Gate	14-TSSOP		198.00/2,000	
SN74AC10DBR	296-4293-1-ND	Triple 3-Input NAND Gate	14-SSOP	.36	.29	.20
SN74AC10DBR	296-4293-2-ND	Triple 3-Input NAND Gate	14-SSOP		198.00/2,000	
SN74AC10D	296-4294-5-ND	Triple 3-Input NAND Gate	14-SOIC	.36	.29	.20
SN74AC10DR	296-4294-1-ND	Triple 3-Input NAND Gate	14-SOIC	.36	.29	.20
SN74AC10DR	296-4294-2-ND	Triple 3-Input NAND Gate	14-SOIC		235.00/2,500	
SN74AC10PWR	296-4295-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.36	.29	.20
SN74AC10PWR	296-4295-2-ND	Triple 3-Input NAND Gate	14-TSSOP		198.00/2,000	
SN74AC11DBR	296-4296-1-ND	Triple 3-Input AND Gate	14-SSOP	.36	.29	.20
SN74AC11DBR	296-4296-2-ND	Triple 3-Input AND Gate	14-SSOP		198.00/2,000	
SN74AC11D	296-4297-5-ND	Triple 3-Input AND Gate	14-SOIC	.36	.29	.20
SN74AC11DR	296-4297-1-ND	Triple 3-Input AND Gate	14-SOIC	.36	.29	.20
SN74AC11DR	296-4297-2-ND	Triple 3-Input AND Gate	14-SOIC		235.00/2,500	
SN74AC11PWR	296-4298-1-ND	Triple 3-Input AND Gate	14-TSSOP	.36	.29	.20
SN74AC11PWR	296-4298-2-ND	Triple 3-Input AND Gate	14-TSSOP		198.00/2,000	
SN74AC14DBR	296-4299-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.36	.29	.20
SN74AC14DBR	296-4299-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP		198.00/2,000	
SN74AC14D	296-4300-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.36	.29	.20
SN74AC14DR	296-4300-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.36	.29	.20
SN74AC14DR	296-4300-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		235.00/2,500	
SN74AC14N	296-4301-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.36	.29	.20
SN74AC14PWR	296-4302-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.36	.29	.20
SN74AC14PWR	296-4302-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		198.00/2,000	
SN74AC32D	296-1059-5-ND	Quad 2-Input OR Gate	14-SOIC	.36	.29	.20
SN74AC32DR	296-1059-1-ND	Quad 2-Input OR Gate	14-SOIC	.36	.29	.20
SN74AC32DR	296-1059-2-ND	Quad 2-Input OR Gate	14-SOIC		235.00/2,500	
SN74AC32DBR	296-4317-1-ND	Quad 2-Input OR Gate	14-SSOP	.36	.29	.20
SN74AC32DBR	296-4317-2-ND	Quad 2-Input OR Gate	14-SSOP		198.00/2,000	
SN74AC32N	296-4318-5-ND	Quad 2-Input OR Gate	14-Dip	.36	.29	.20
SN74AC32PWR	296-4319-1-ND	Quad 2-Input OR Gate	14-TSSOP	.36	.29	.20
SN74AC32PWR	296-4319-2-ND	Quad 2-Input OR Gate	14-TSSOP		198.00/2,000	
SN74AC74D	296-1063-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.36	.29	.20
SN74AC74DR	296-1063-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.36	.29	.20
SN74AC74DR	296-1063-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC		235.00/2,500	
SN74AC74DBR	296-4341-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	.36	.29	.20
SN74AC74DBR	296-4341-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP		198.00/2,000	
SN74AC74N	296-4342-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-Dip	.36	.29	.20
SN74AC74NSR	296-13129-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	.39	.32	.22
SN74AC74NSR	296-13129-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP		216.00/2,000	
SN74AC74PWR	296-1064-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	.36	.29	.20
SN74AC74PWR	296-1064-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP		198.00/2,000	
SN74AC86D	296-4343-5-ND	Quad 2-Input EX-OR Gate	14-SOIC	.36	.29	.20
SN74AC86DBR	296-4344-1-ND	Quad 2-Input EX-OR Gate	14-SSOP	.36	.29	.20
SN74AC86DBR	296-4344-2-ND	Quad 2-Input EX-OR Gate	14-SSOP		198.00/2,000	
SN74AC86N	296-4345-5-ND	Quad 2-Input EX-OR Gate	14-Dip	.36	.29	.20
SN74AC86PWR	296-4346-1-ND	Quad 2-Input EX-OR Gate	14-TSSOP	.36	.29	.20
SN74AC86PWR	296-4346-2-ND	Quad 2-Input EX-OR Gate	14-TSSOP		198.00/2,000	
SN74AC240DBR	296-4303-1-ND	Tri-St. Octal Buffer/Line Driver	20-SSOP	.50	.40	.30
SN74AC240DBR	296-4303-2-ND	Tri-St. Octal Buffer/Line Driver	20-SSOP		280.00/2,000	
SN74AC240DW	296-4304-5-ND	Tri-St. Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74AC240DWR	296-14686-1-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	.50	.40	.30
SN74AC240DWR	296-14686-2-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC		280.00/2,000	
SN74AC240N	296-4305-5-ND	Tri-St. Octal Buffer/Line Driver	20-Dip	.50	.40	.30
SN74AC240PWR	296-4306-1-ND	Tri-St. Octal Buffer/Line Driver	20-TSSOP	.50	.40	.30
SN74AC240PWR	296-4306-2-ND	Tri-St. Octal Buffer/Line Driver	20-TSSOP		280.00/2,000	
SN74AC241DBR	296-4307-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.50	.40	.30

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AC241DBR	296-4307-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	280.00/2,000		
SN74AC241DW	296-1056-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74AC241DWR	296-1056-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74AC241DWR	296-1056-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	280.00/2,000		
SN74AC241N	296-4308-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.40	.30
SN74AC241PWR	296-4309-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.50	.40	.30
SN74AC241PWR	296-4309-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	280.00/2,000		
SN74AC244DBR	296-4310-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.50	.40	.30
SN74AC244DBR	296-4310-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	280.00/2,000		
SN74AC244DWR	296-1057-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74AC244DWR	296-1057-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	280.00/2,000		
SN74AC244N	296-4311-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.40	.30
SN74AC244NSR	296-4312-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.50	.40	.30
SN74AC244NSR	296-4312-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	280.00/2,000		
SN74AC244PWR	296-4313-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.50	.40	.30
SN74AC244PWR	296-4313-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	280.00/2,000		
SN74AC245DBR	296-4314-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.50	.40	.30
SN74AC245DBR	296-4314-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	280.00/2,000		
SN74AC245DW	296-1058-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.50	.40	.30
SN74AC245DWR	296-1058-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.50	.40	.30
SN74AC245DWR	296-1058-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	280.00/2,000		
SN74AC245N	296-4315-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.50	.40	.30
SN74AC245PWR	296-4316-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.50	.40	.30
SN74AC245PWR	296-4316-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	280.00/2,000		
SN74AC373DBR	296-4320-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.50	.40	.30
SN74AC373DBR	296-4320-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	280.00/2,000		
SN74AC373DWR	296-4321-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.50	.40	.30
SN74AC373DWR	296-4321-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	280.00/2,000		
SN74AC373NSR	296-4322-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	.50	.40	.30
SN74AC373NSR	296-4322-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	280.00/2,000		
SN74AC373PWR	296-4323-1-ND	Tri-St. Octal D-Type Transp. Latch	20-TSSOP	.50	.40	.30
SN74AC373PWR	296-4323-2-ND	Tri-St. Octal D-Type Transp. Latch	20-TSSOP	280.00/2,000		
SN74AC374DBR	296-4324-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.50	.40	.30
SN74AC374DBR	296-4324-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	280.00/2,000		
SN74AC374DW	296-1060-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.50	.40	.30
SN74AC374DWR	296-1060-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.50	.40	.30
SN74AC374DWR	296-1060-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	280.00/2,000		
SN74AC374PWR	296-4325-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.50	.40	.30
SN74AC374PWR	296-4325-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	280.00/2,000		
SN74AC533DBR	296-4326-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1.05	.88	.70
SN74AC533DBR	296-4326-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	932.00/2,000		
SN74AC533DW	296-4327-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	1.05	.88	.70
SN74AC533PWR	296-4328-1-ND	Tri-St. Octal D-Type Transp. Latch	20-TSSOP	1.05	.88	.70
SN74AC533PWR	296-4328-2-ND	Tri-St. Octal D-Type Transp. Latch	20-TSSOP	932.00/2,000		
SN74AC534DBR	296-4329-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.56	.42	.32
SN74AC534DBR	296-4329-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	372.00/2,000		
SN74AC534DW	296-4330-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.56	.42	.32
SN74AC534N	296-4331-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.56	.42	.32
SN74AC534PWR	296-4332-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.56	.42	.32
SN74AC534PWR	296-4332-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	372.00/2,000		
SN74AC563DBR	296-4333-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1.05	.88	.70
SN74AC563DBR	296-4333-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	932.00/2,000		
SN74AC563DW	296-4334-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	1.05	.88	.70
SN74AC563PWR	296-4335-1-ND	Tri-St. Octal D-Type Transp. Latch	20-TSSOP	1.05	.88	.70
SN74AC563PWR	296-4335-2-ND	Tri-St. Octal D-Type Transp. Latch	20-TSSOP	932.00/2,000		
SN74AC564DW	296-4336-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1.05	.88	.70
SN74AC573DBR	296-4337-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.50	.40	.30
SN74AC573DBR	296-4337-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	280.00/2,000		
SN74AC573DW	296-1061-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.50	.40	.30
SN74AC573DWR	296-1061-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.50	.40	.30
SN74AC573DWR	296-1061-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	280.00/2,000		
SN74AC573PWR	296-4338-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.50	.40	.30
SN74AC573PWR	296-4338-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	280.00/2,000		
SN74AC574DBR	296-4339-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.50	.40	.30
SN74AC574DBR	296-4339-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	280.00/2,000		
SN74AC574DW	296-1062-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.50	.40	.30
SN74AC574DWR	296-1062-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.50	.40	.30
SN74AC574DWR	296-1062-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	280.00/2,000		
SN74AC574PWR	296-4340-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.50	.40	.30
SN74AC574PWR	296-4340-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	280.00/2,000		

ACT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACT11000DR	296-14295-1-ND	Quad 2-Input NAND Gate *NEW!*	16-SOIC	1.05	.88	.70
74ACT11000DR	296-14295-2-ND	Quad 2-Input NAND Gate *NEW!*	16-SOIC	1137.50/2,500		
74ACT11004DW	296-4177-5-ND	Hex Inverter *NEW!*	20-SOIC	1.05	.88	.70
74ACT11008D	296-4178-5-ND	Quad 2-Input AND Gate	16-SOIC	1.05	.88	.70
74ACT11008N	296-4179-5-ND	Quad 2-Input AND Gate	16-Dip	1.05	.88	.70
74ACT11030DR	296-4180-1-ND	8-Input NAND Gate	14-SOIC	1.05	.88	.70
74ACT11030DR	296-4180-2-ND	8-Input NAND Gate	14-SOIC	1137.50/2,500		
74ACT11032DBR	296-4181-1-ND	Quad 2-Input Pos. OR Gate *NEW!*	16-SSOP	1.05	.88	.70
74ACT11032DBR	296-4181-2-ND	Quad 2-Input Pos. OR Gate *NEW!*	16-SSOP	932.00/2,000		
74ACT11032DR	296-4182-1-ND	Quad 2-Input Pos. OR Gate *NEW!*	16-SOIC	1.05	.88	.70
74ACT11032DR	296-4182-2-ND	Quad 2-Input Pos. OR Gate *NEW!*	16-SOIC	1137.50/2,500		
74ACT11032N	296-4183-5-ND	Quad 2-Input Pos. OR Gate *NEW!*	16-Dip	1.05	.88	.70
74ACT11074DBR	296-4184-1-ND	Dual Positive Edge-Triggered D-Type Flip-Flop w/Clear and Preset	14-SSOP	1.14	.95	.76
74ACT11074DBR	296-4184-2-ND	Dual Positive Edge-Triggered D-Type Flip-Flop w/Clear and Preset	14-SSOP	1010.00/2,000		
74ACT11074NSR	296-13059-1-ND	Dual Positive Edge-Triggered D-Type Flip-Flop w/Clear and Preset	14-SOP	1.14	.95	.76
74ACT11074NSR	296-13059-2-ND	Dual Positive Edge-Triggered D-Type Flip-Flop w/Clear and Preset	14-SOP	1010.00/2,000		
74ACT11139D	296-4185-5-ND	Dual 2-4 Decoder/Demux	16-SOIC	1.35	1.13	.90
74ACT11139PWR	296-4186-1-ND	Dual 2-4 Decoder/Demux	16-SSOP	1.35	1.13	.90
74ACT11139PWR	296-4186-2-ND	Dual 2-4 Decoder/Demux	16-SSOP	1198.00/2,000		
74ACT11240DW	296-4187-5-ND	Octal Buffer/Line Driver	24-SOIC	1.70	1.36	1.02
74ACT11240NT	296-4188-5-ND	Octal Buffer/Line Driver	24-Dip	1.70	1.36	1.02
74ACT11244DBR	296-4189-1-ND	Octal Buffer/Line Driver	24-SSOP	1.70	1.36	1.02
74ACT11244DBR	296-4189-2-ND	Octal Buffer/Line Driver	24-SSOP	1768.00/2,000		
74ACT11244DW	296-1001-5-ND	Octal Buffer/Line Driver	24-SOIC	1.70	1.36	1.02
74ACT11244DWR	296-1001-1-ND	Octal Buffer/Line Driver	24-SOIC	1.70	1.36	1.02
74ACT11244DWR	296-1001-2-ND	Octal Buffer/Line Driver	24-SOIC	1768.00/2,000		
74ACT11244NT	296-4190-5-ND	Octal Buffer/Line Driver	24-Dip	1.63	1.30	.98
74ACT11244PWR	296-1002-1-ND	Octal Buffer/Line Driver	24-TSSOP	1.63	1.30	.98
74ACT11244PWR	296-1002-2-ND	Octal Buffer/Line Driver	24-TSSOP	1690.00/2,000		
74ACT11245DBR	296-4191-1-ND	Tri-State Octal Bus Transceiver	24-SSOP	1.83	1.46	1.10
74ACT11245DBR	296-4191-2-ND	Tri-State Octal Bus Transceiver	24-SSOP	1898.00/2,000		
74ACT11245DW	296-4192-5-ND	Tri-State Octal Bus Transceiver	24-SOIC	1.83	1.46	1.10
74ACT11245NT	296-4193-5-ND	Tri-State Octal Bus Transceiver	24-Dip	1.83	1.46	1.10
74ACT11245PWR	296-1003-1-ND	Tri-State Octal Bus Transceiver	24-TSSOP	1.83	1.46	1.10
74ACT11245PWR	296-1003-2-ND	Tri-State Octal Bus Transceiver	24-TSSOP	1898.00/2,000		
74ACT11257DBR	296-4194-1-ND	Tri-State Quad 2-1 Multiplexer	20-SSOP	1.35	1.13	.90
74ACT11257DBR	296-4194-2-ND	Tri-State Quad 2-1 Multiplexer	20-SSOP	1198.00/2,000		
74ACT11257DW	296-4195-5-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	1.35	1.13	.90
74ACT11257DWR	296-4195-1-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	1.35	1.13	.90
74ACT11257DWR	296-4195-2-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	1198.00/2,000		
74ACT11286D	296-4196-5-ND	9-Bit Parity Generator/Checker	14-SOIC	1.41	1.18	.94
74ACT11286DR	296-4196-1-ND	9-Bit Parity Generator/Checker	14-SOIC	1.41	1.18	.94
74ACT11286DR	296-4196-2-ND	9-Bit Parity Generator/Checker	14-SOIC	1527.50/2,500		
74ACT11373DBR	296-4197-1-ND	Tri-St. Octal D-Type Transparent Latch	24-SSOP	1.70	1.36	1.02
74ACT11373DBR	296-4197-2-ND	Tri-St. Octal D-Type Transparent Latch	24-SSOP	1768.00/2,000		
74ACT11373DW	296-4198-5-ND	Tri-St. Octal D-Type Transparent Latch	24-SOIC	1.70	1.36	1.02
74ACT11374DW	296-4199-5-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	1.70	1.36	1.02
74ACT11543DWR	296-4200-1-ND	Tri-State Octal Latched Transceiver	28-SOIC	3.94	3.15	2.45
74ACT11543DWR	296-4200-2-ND	Tri-State Octal Latched Transceiver	28-SOIC	2231.00/1,000		
74ACT11652DWR	296-4201-1-ND	Tri-St. Octal Register Bus Transceiver	28-SOIC	5.00	4.00	3.38
74ACT11652DWR	296-4201-2-ND	Tri-St. Octal Register Bus Transceiver	28-SOIC	3125.00/1,000		
74ACT16240DL	296-4202-5-ND	Tri-St. 16-Bit Buffer/Driver	48-SSOP	1.11	.93	.74
74ACT16240DLR	296-14454-1-ND	Tri-St. 16-Bit Buffer/Driver *NEW!*	48-SSOP	1.11	.93	.74
74ACT16240DLR	296-14454-2-ND	Tri-St. 16-Bit Buffer/Driver *NEW!*	48-SSOP	492.00/1,000		
74ACT16244DGGR	296-1004-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	1.11	.93	.74
74ACT16244DGGR	296-1004-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	984.00/2,000		
74ACT16244DL	296-1005-5-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	1.11	.93	.74
74ACT16244DLR	296-1005-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	1.11	.93	.74
74ACT16244DLR	296-1005-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	492.00/1,000		
74ACT16245DGGR	296-4203-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.11	.93	.74
74ACT16245DGGR	296-4203-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	984.00/2,000		
74ACT16245DL	296-1006-5-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	1.11	.93	.74
74ACT16245DLR	296-1006-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	1.11	.93	.74
74ACT16245DLR	296-1006-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	492.00/1,000		
74ACT16373DL	296-1007-5-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	1.11	.93	.74
74ACT16373DLR	296-1007-1-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	1.11	.93	.74
74ACT16373DLR	296-1007-2-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	492.00/1,000		
74ACT16374DL	296-1008-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.11	.93	.74
74ACT16374DLR	296-1008-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.11	.93	.74
74ACT16374DLR	296-1008-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	492.00/1,000		
74ACT16543DL	296-1009-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.11	.93	.74
74ACT16543DLR	296-1009-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.11	.93	.74
74ACT16543DLR	296-1009-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	492.00/1,000		
74ACT16623DL	296-4204-5-ND	Tri-St. 16-Bit Bus Transceiver *NEW!*	48-SSOP	4.28	3.42	2.66
74ACT16623DLR	296-4204-1-ND	Tri-St. 16-Bit Bus Transceiver *NEW!*	48-SSOP	4.28	3.42	2.66
74ACT16623DLR	296-4204-2-ND	Tri-St. 16-Bit Bus Transceiver *NEW!*	48-SSOP	2423.00/1,000		
74ACT16646DL	296-4205-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.59	2.07	1.61
74ACT16646DLR	296-4205-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.59	2.07	1.61
74ACT16646DLR	296-4205-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1466.00/1,000		
74ACT16651DL	296-4206-5-ND	Tri-St. 16-Bit Transceiver/Register *NEW!*	56-SSOP	6.60	5.28	4.46
74ACT16657DL	296-4207-5-ND	Tri-State 16-Bit Transceiver	56-SSOP	8.50	6.80	5.74
74ACT16823DL	296-4208-5-ND	Tri-St. 18-Bit D-Type Flip-Flop	56-SSOP	5.20	4.16	3.51
74ACT16823DLR	296-14457-1-ND	Tri-St. 18-Bit D-Type Flip-Flop *NEW!*	56-SSOP	5.20	4.16	3.51
74ACT16823DLR	296-14457-2-ND	Tri-St. 18-Bit D-Type Flip-Flop *NEW!*	56-SSOP	3250.00/1,000		
74ACT16825DL	296-4209-5-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	5.20	4.16	3.51
74ACT16825DLR	296-4209-1-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	5.20	4.16	3.51
74ACT16825DLR	296-4209-2-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	3250.00/1,000		
74ACT16841DL	296-4210-5-ND	Tri-State 20-Bit D-Type Latch	56-SSOP	5.20	4.16	3.51
74ACT16863DL	296-4212-5-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	5.20	4.16	3.51
74ACT16952DLR	296-4213-1-ND	Tri-St. 16-Bit Reg. Transceiver *NEW!*	56-SSOP	5.20	4.16	3.51
74ACT16952DLR	296-4213-2-ND	Tri-St. 16-Bit Reg. Transceiver *NEW!*	56-SSOP	3250.00/1,000		
CD74ACT00M	296-4250-5-ND	Quad 2-Input NAND Gate	14-SOP	.36	.29	.20
CD74ACT00M96	296-14485-1-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	.36	.29	.20
CD74ACT00M96	296-14485-2-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	235.00/2,500		
CD74ACT02M	296-4251-5-ND	Quad 2-Input NOR Gate	14-SOP	.36	.29	.20
CD74ACT02M96	296-14486-1-ND	Quad 2-Input NOR Gate *NEW!*	14-SOIC	.36	.29	.20
CD74ACT02M96	296-14486-2-ND	Quad 2-Input NOR Gate *NEW!*	14-SOIC	235.00/2,500		
CD74ACT04E	296-14487-5-ND	Hex Inverter *NEW!*	14-Dip	.36	.29	.20
CD74ACT04M	296-1983-5-ND	Hex Inverter	14-SOP	.36	.29	.20
CD74ACT04M96	296-1983-1-ND	Hex Inverter	14-SOP	.36	.29	.20
CD74ACT05E	296-12763-5-ND	Hex Inverter with Open Drain	14-Dip	.36	.29	.20
CD74ACT05M	296-4252-5-ND	Hex Inverter with Open Drain	14-SOP	.36	.29	.20
CD74ACT05M96	296-14488-1-ND	Hex Inverter with Open Drain *NEW!*	14-SOIC	.36	.29	.20
CD74ACT05M96	296-14488-2-ND	Hex Inverter with Open-Drain *NEW!*	14-SOIC	235.00/2,500		
CD74ACT08M	296-4253-5-ND	Quad 2-Input AND Gate	14-SOP	.36	.29	.20
CD74ACT08M96	296-14489-1-ND	Quad 2-Input AND Gate *NEW!*	14-SOIC	.36	.29	.20
CD74ACT08M96	296-14489-2-ND	Quad 2-Input AND Gate *NEW!*	14-SOIC	235.00/2,500		
CD74ACT14E	296-12765-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.36	.29	.20
CD74ACT14M	296-1380-5-ND	Hex Inverting Schmitt Trigger	14-SOP	.36	.29	.20
CD74ACT14M96	296-14492-1-ND	Hex Inverting Schmitt Trigger *NEW!*	14-SOIC	.36	.29	.20
CD74ACT14M96	296-14492-2-ND	Hex Inverting Schmitt Trigger *NEW!*	14-SOIC	235.00/2,500		
CD74ACT20E	296-4266-5-ND	Dual 4-Input NAND Gate	14-Dip	.36	.29	.20
CD74ACT20M	296-4267-5-ND	Dual 4-Input NAND Gate	14-SOP	.36	.29	.20
CD74ACT32M	296-4278-5-ND	Quad 2-Input OR Gate	14-SOP	.36	.29	.20
CD74ACT32M96	296-14499-1-ND	Quad 2-Input OR Gate *NEW!*	14-SOIC	.36	.29	.20
CD74ACT32M96	296-14499-2-ND	Quad 2-Input OR Gate *NEW!*	14-SOIC	235.00/2,500		
CD74ACT74M	296-4285-5-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOP	.36	.29	.20
CD74ACT74M96	296-14503-1-ND	Dual D-Type Flip-Flop with Set/Reset *NEW!*	14-SOIC	.36	.29	.20
CD74ACT74M96	296-14503-2-ND	Dual D-Type Flip-Flop with Set/Reset *NEW!*	14-SOIC	235.00/2,500		
CD74ACT86E	296-4286-5-ND	Quad 2-Input EX-OR Gate	14-Dip	.36	.29	.20
CD74ACT109M	296-4254-5-ND	Dual J-K Flip-Flop with Set/Reset	16-SOP	.48	.36	.27
CD74ACT112M96	296-12764-1-ND	Dual, Negative, J-K Flip-Flop with Set/Reset	16-SOP	.48	.36	.27

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD74ACT112M96	296-12764-2-ND	Dual, Negative, J-K Flip-Flop with Set/Reset	16-SOP	390.00/2,500		
CD74ACT138E	296-14490-5-ND	3-8 Line Decoder/Demux *NEW!*	16-Dip	.46	.37	.26
CD74ACT138M	296-4255-5-ND	3-8 Line Decoder/Demux	16-SOP	.46	.37	.26
CD74ACT138M96	296-14491-1-ND	3-8 Line Decoder/Demux *NEW!*	16-SOIC	.46	.37	.26
CD74ACT138M96	296-14491-2-ND	3-8 Line Decoder/Demux *NEW!*	16-SOIC	297.50/2,500		
CD74ACT139E	296-4256-5-ND	Dual 2-4 Line Decoder/Demux	16-Dip	.46	.37	.26
CD74ACT139M	296-4257-5-ND	Dual 2-4 Line Decoder/Demux	16-SOP	.46	.37	.26
CD74ACT151M96	296-12766-1-ND	8-Input Digital Multiplexer	16-SOIC	.48	.36	.27
CD74ACT151M96	296-12766-2-ND	8-Input Digital Multiplexer	16-SOIC	390.00/2,500		
CD74ACT153E	296-4258-5-ND	Dual 4-Input Multiplexer	16-Dip	.48	.36	.27
CD74ACT153M	296-4259-5-ND	Dual 4-Input Multiplexer	16-SOP	.48	.36	.27
CD74ACT157E	296-4260-5-ND	Quad 2-Input Multiplexer	16-Dip	.48	.36	.27
CD74ACT157M	296-4261-5-ND	Quad 2-Input Multiplexer	16-SOP	.48	.36	.27
CD74ACT158M96	296-4262-1-ND	Quad 2-Input Multiplexer	16-SOP	.48	.36	.27
CD74ACT158M96	296-4262-2-ND	Quad 2-Input Multiplexer	16-SOP	390.00/2,500		
CD74ACT161M	296-4263-5-ND	4-Bit Synchronous Binary Counter	16-SOP	.48	.36	.27
CD74ACT163M	296-4264-5-ND	4-Bit Synchronous Binary Counter	16-SOP	.48	.36	.27
CD74ACT164E	296-4265-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.56	.42	.32
CD74ACT164M	296-1381-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOP	.56	.42	.32
CD74ACT164M96	296-14493-1-ND	8-Bit Serial-In/Parallel-Out Shift Register *NEW!*	14-SOIC	.56	.42	.32
CD74ACT164M96	296-14493-2-ND	8-Bit Serial-In/Parallel-Out Shift Register *NEW!*	14-SOIC	455.00/2,500		
CD74ACT174M96	296-14494-1-ND	Hex D-Type Flip-Flop w/Reset *NEW!*	16-SOIC	.54	.41	.31
CD74ACT174M96	296-14494-2-ND	Hex D-Type Flip-Flop w/Reset *NEW!*	16-SOIC	440.00/2,500		
CD74ACT240M96	296-12767-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
CD74ACT240M96	296-12767-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	280.00/2,000		
CD74ACT241M96	296-4268-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.50	.40	.30
CD74ACT241M96	296-4268-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	280.00/2,000		
CD74ACT244E	296-4269-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.40	.30
CD74ACT244M	296-4270-5-ND	Tri-St. Octal Buffer/Line Driver	20-SOP	.50	.40	.30
CD74ACT244M96	296-14495-1-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	.50	.40	.30
CD74ACT244M96	296-14495-2-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	280.00/2,000		
CD74ACT245E	296-14496-5-ND	Tri-State Octal Bus Non-Inverting Transceiver *NEW!*	20-Dip	.50	.40	.30
CD74ACT245M	296-4271-5-ND	Tri-State Octal Bus Non-Inverting Transceiver	20-SOP	.50	.40	.30
CD74ACT245M96	296-14497-1-ND	Tri-State Octal Bus Non-Inverting Transceiver *NEW!*	20-SOIC	.50	.40	.30
CD74ACT245M96	296-14497-2-ND	Tri-State Octal Bus Non-Inverting Transceiver *NEW!*	20-SOIC	280.00/2,000		
CD74ACT273E	296-4272-5-ND	Octal D-Type Flip-Flop w/Reset	20-Dip	.50	.40	.30
CD74ACT273M	296-4273-5-ND	Octal D-Type Flip-Flop w/Reset	20-SOP	.50	.40	.30
CD74ACT273M96	296-14498-1-ND	Octal D-Type Flip-Flop w/Reset *NEW!*	20-SOIC	.50	.40	.30
CD74ACT273M96	296-14498-2-ND	Octal D-Type Flip-Flop w/Reset *NEW!*	20-SOIC	280.00/2,000		
CD74ACT273SM96	296-4274-1-ND	Octal D-Type Flip-Flop w/Reset	20-SSOP	.50	.40	.30
CD74ACT273SM96	296-4274-2-ND	Octal D-Type Flip-Flop w/Reset	20-SSOP	280.00/2,000		
CD74ACT280M96	296-12768-1-ND	9-Bit Odd/Even Parity Generator/Checker	14-SOIC	.56	.42	.32
CD74ACT280M96	296-12768-2-ND	9-Bit Odd/Even Parity Generator/Checker	14-SOIC	455.00/2,500		
CD74ACT283E	296-4275-5-ND	4-Bit Binary Fill Adder with Fast-Carry	16-Dip	.52	.39	.30
CD74ACT297M	296-4276-5-ND	Digital Phase-Locked Loop	16-SOP	1.63	1.30	.98
CD74ACT299M	296-4277-5-ND	8-In Universal Shift/Storage Register	20-SOP	.48	.36	.27
CD74ACT374E	296-4279-5-ND	Tri-St. Octal D-Type Flip-Flop	20-Dip	.50	.40	.30
CD74ACT374M96	296-14500-1-ND	Tri-St. Octal D-Type Flip-Flop *NEW!*	20-SOIC	.50	.40	.30
CD74ACT374M96	296-14500-2-ND	Tri-St. Octal D-Type Flip-Flop *NEW!*	20-SOIC	280.00/2,000		
CD74ACT541E	296-1382-5-ND	Tri-St. Octal Buffer/Line Driver	20-Dip	.50	.40	.30
CD74ACT541M	296-4280-5-ND	Tri-St. Octal Buffer/Line Driver	20-SOP	.50	.40	.30
CD74ACT541M96	296-14501-1-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	.50	.40	.30
CD74ACT541M96	296-14501-2-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	280.00/2,000		
CD74ACT573M	296-4282-5-ND	Tri-St. Octal Transparent Latch	20-SOP	.50	.40	.30
CD74ACT573M96	296-14502-1-ND	Tri-St. Octal Transparent Latch *NEW!*	20-SOIC	.50	.40	.30
CD74ACT573M96	296-14502-2-ND	Tri-St. Octal Transparent Latch *NEW!*	20-SOIC	280.00/2,000		
CD74ACT623M96	296-4283-1-ND	Tri-State Octal-Bus Non-Inverting Xcvr.	20-SOP	1.63	1.30	.98
CD74ACT623M96	296-4283-2-ND	Tri-State Octal-Bus Non-Inverting Xcvr.	20-SOP	1690.00/2,000		
CD74ACT652M	296-4284-5-ND	Tri-State Octal-Bus Transceiver/Register	24-SOP	1.63	1.30	.98
SN74ACT00D	296-1452-5-ND	Quad 2-Input NAND Gate	14-SOIC	.36	.29	.20
SN74ACT00DBR	296-4347-1-ND	Quad 2-Input NAND Gate	14-SSOP	.36	.29	.20
SN74ACT00DBR	296-4347-2-ND	Quad 2-Input NAND Gate	14-SSOP	198.00/2,000		
SN74ACT00DR	296-14690-1-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	.36	.29	.20
SN74ACT00DR	296-14690-2-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	235.00/2,500		
SN74ACT00N	296-4348-5-ND	Quad 2-Input NAND Gate	14-Dip	.36	.29	.20
SN74ACT00PWR	296-4349-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.36	.29	.20
SN74ACT00PWR	296-4349-2-ND	Quad 2-Input NAND Gate	14-TSSOP	198.00/2,000		
SN74ACT04D	296-1065-5-ND	Hex Inverter	14-SOIC	.36	.29	.20
SN74ACT04DR	296-1065-1-ND	Hex Inverter	14-SOIC	.36	.29	.20
SN74ACT04DR	296-1065-2-ND	Hex Inverter	14-SOIC	235.00/2,500		
SN74ACT04DBR	296-4350-1-ND	Hex Inverter	14-SSOP	.36	.29	.20
SN74ACT04DBR	296-4350-2-ND	Hex Inverter	14-SSOP	198.00/2,000		
SN74ACT04N	296-4351-5-ND	Hex Inverter	14-Dip	.36	.29	.20
SN74ACT04PWR	296-4352-1-ND	Hex Inverter	14-TSSOP	.36	.29	.20
SN74ACT04PWR	296-4352-2-ND	Hex Inverter	14-TSSOP	198.00/2,000		
SN74ACT08D	296-1066-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.36	.29	.20
SN74ACT08DR	296-1066-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.36	.29	.20
SN74ACT08DR	296-1066-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	235.00/2,500		
SN74ACT08DBR	296-4353-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.36	.29	.20
SN74ACT08DBR	296-4353-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	198.00/2,000		
SN74ACT08N	296-4354-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.36	.29	.20
SN74ACT08NSR	296-13130-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.39	.32	.22
SN74ACT08NSR	296-13130-2-ND	Quad 2-Input Positive AND Gate	14-SOP	216.00/2,000		
SN74ACT08PWR	296-4355-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.36	.29	.20
SN74ACT08PWR	296-4355-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	198.00/2,000		
SN74ACT10D	296-4359-5-ND	Triple 3-Input NAND Gate	14-SOIC	.36	.29	.20
SN74ACT10DR	296-4360-1-ND	Triple 3-Input NAND Gate	14-SOIC	.36	.29	.20
SN74ACT10DR	296-4360-2-ND	Triple 3-Input NAND Gate	14-SOIC	235.00/2,500		
SN74ACT10DBR	296-4358-1-ND	Triple 3-Input NAND Gate	14-SSOP	.36	.29	.20
SN74ACT10DBR	296-4358-2-ND	Triple 3-Input NAND Gate	14-SSOP	198.00/2,000		
SN74ACT10PWR	296-4361-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.36	.29	.20
SN74ACT10PWR	296-4361-2-ND	Triple 3-Input NAND Gate	14-TSSOP	198.00/2,000		
SN74ACT11D	296-1455-5-ND	Triple 3-Input AND Gate	14-SOIC	.36	.29	.20
SN74ACT11DBR	296-4362-1-ND	Triple 3-Input NAND Gate	14-SSOP	.36	.29	.20
SN74ACT11DBR	296-4362-2-ND	Triple 3-Input NAND Gate	14-SSOP	198.00/2,000		
SN74ACT11N	296-4363-5-ND	Triple 3-Input NAND Gate	14-Dip	.36	.29	.20
SN74ACT11PWR	296-4364-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.36	.29	.20
SN74ACT11PWR	296-4364-2-ND	Triple 3-Input NAND Gate	14-TSSOP	198.00/2,000		
SN74ACT14D	296-1068-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.36	.29	.20
SN74ACT14DR	296-1068-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.36	.29	.20
SN74ACT14DR	296-1068-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	235.00/2,500		
SN74ACT14DBR	296-4367-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.36	.29	.20
SN74ACT14DBR	296-4367-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	198.00/2,000		
SN74ACT14N	296-4368-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.36	.29	.20
SN74ACT14PWR	296-4369-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.36	.29	.20
SN74ACT14PWR	296-4369-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	198.00/2,000		
SN74ACT32D	296-1074-5-ND	Quad 2-Input OR Gate	14-SOIC	.36	.29	.20
SN74ACT32DR	296-1074-1-ND	Quad 2-Input OR Gate	14-SOIC	.36	.29	.20
SN74ACT32DR	296-1074-2-ND	Quad 2-Input OR Gate	14-SOIC	235.00/2,500		
SN74ACT32DBR	296-4387-1-ND	Quad 2-Input OR Gate	14-SSOP	.36	.29	.20
SN74ACT32DBR	296-4387-2-ND	Quad 2-Input OR Gate	14-SSOP	198.00/2,000		
SN74ACT32N	296-4388-5-ND	Quad 2-Input OR Gate	14-Dip	.36	.29	.20
SN74ACT32PWR	296-4389-1-ND	Quad 2-Input OR Gate	14-TSSOP	.36	.29	.20
SN74ACT32PWR	296-4389-2-ND	Quad 2-Input OR Gate	14-TSSOP	198.00/2,000		
SN74ACT74D	296-1079-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.36	.29	.20
SN74ACT74DR	296-1079-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.36	.29	.20
SN74ACT74DR	296-1079-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	235.00/2,500		
SN74ACT74DBR	296-4443-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	.36	.29	.20
SN74ACT74DBR	296-4443-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	198.00/2,000		
SN74ACT74N	296-4444-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-Dip	.36	.29	.20
SN74ACT74NSR	296-13131-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	.39	.32	.22
SN74ACT74NSR	296-13131-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	216.00/2,000		
SN74ACT74PWR	296-4446-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	.36	.29	.20
SN74ACT74PWR	296-4446-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	198.00/2,000		
SN74ACT86D	296-1463-5-ND	Quad 2-Input EX-OR Gate	14-SOIC	.36	.29	.20
SN74ACT86DBR	296-4502-1-ND	Quad 2-Input EX-OR Gate	14-SSOP	.36	.29	.20
SN74ACT86DBR	296-4502-2-ND	Quad 2-Input EX-OR Gate	14-SSOP	198.00/2,000		
SN74ACT86DR	296-9757-1-ND	Quad 2-Input EX-OR Gate	14-SOP	.36	.29	.20
SN74ACT86DR	296-9757-2-ND	Quad 2-Input EX-OR Gate	14-SOP	235.00/2,500		
SN74ACT86N	296-4503-5-ND	Quad 2-Input EX-OR Gate	14-Dip	.36	.29	.20
SN74ACT86PWR	296-4504-1-ND	Quad 2-Input EX-OR Gate	14-TSSOP	.36	.29	.20
SN74ACT86PWR	296-4504-2-ND	Quad 2-Input EX-OR Gate	14-TSSOP	198.00/2,000		
SN74ACT240DBR	296-4377-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74ACT240DBR	296-4377-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	280.00/2,000		
SN74ACT240DWR	296-4378-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74ACT240DWR	296-4378-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	280.00/2,000		
SN74ACT240N	296-4379-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.50	.40	.30
SN74ACT240PWR	296-4380-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74ACT240PWR	296-4380-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	280.00/2,000		
SN74ACT241DBR	296-4381-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74ACT241DBR	296-4381-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	280.00/2,000		
SN74ACT241DW	296-4382-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74ACT241N	296-4383-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.50	.40	.30
SN74ACT241PWR	296-4384-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74ACT241PWR	296-4384-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	280.00/2,000		
SN74ACT244DBR	296-1069-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74ACT244DBR	296-1069-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	280.00/2,000		
SN74ACT244DW	296-1070-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74ACT244DWR	296-1070-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74ACT244DWR	296-1070-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	280.00/2,000		
SN74ACT244N	296-4385-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.50	.40	.30
SN74ACT244PWR	296-1071-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74ACT244PWR	296-1071-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	280.00/2,000		
SN74ACT245DBR	296-4386-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74ACT245DBR	296-4386-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	280.00/2,000		
SN74ACT245DW	296-1072-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74ACT245DWR	296-1072-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74ACT245DWR	296-1072-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	280.00/2,000		
SN74ACT245N	296-1460-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.50	.40	.30
SN74ACT245PWR	296-1073-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74ACT245PWR	296-1073-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	280.00/2,000		
SN74ACT373DBR	296-4420-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.50	.40	.30
SN74ACT373DBR	296-4420-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	280.00/2,000		
SN74ACT373DW	296-4421-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.50	.40	.30
SN74ACT373N	296-4422-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.50	.40	.30
SN74ACT373PWR	296-1075-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.50	.40	.30
SN74ACT373PWR	296-1075-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	280.00/2,000		
SN74ACT374DBR	296-1076-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.50	.40	.30
SN74ACT374DBR	296-1076-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	280.00/2,000		
SN74ACT374DW	296-1077-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.50	.40	.30
SN74ACT374DWR	296-1077-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.50	.40	.30
SN74ACT374DWR	296-1077-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	280.00/2,000		
SN74ACT374PWR	296-4423-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.50	.40	.30
SN74ACT374PWR	296-4423-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	280.00/2,000		
SN74ACT533DBR	296-4424-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.54	.41	.31
SN74ACT533DBR	296-4424-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	360.00/2,000		
SN74ACT533DW	296-4425-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.54	.41	.31
SN74ACT533N	296-4426-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.54	.41	.31
SN74ACT533PWR	296-4427-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.54	.41	.31
SN74ACT533PWR	296-4427-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	360.00/2,000		
SN74ACT534DBR	296-4428-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.54	.41	.31
SN74ACT534DBR	296-4428-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	360.00/2,000		
SN74ACT534DW	296-4429-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.54	.41	.31
SN74ACT534DWR	296-4429-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.54	.41	.31
SN74ACT534DWR	296-4429-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	360.00/2,000		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ACT534PWR	296-4430-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.54	.41	.31
SN74ACT534PWR	296-4430-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	360.00/2,000		
SN74ACT563DBR	296-4431-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.54	.41	.31
SN74ACT563DBR	296-4431-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	360.00/2,000		
SN74ACT563DW	296-4432-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.54	.41	.31
SN74ACT564DBR	296-4433-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.56	.42	.32
SN74ACT564DBR	296-4433-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	372.00/2,000		
SN74ACT564DW	296-4434-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.56	.42	.32
SN74ACT564PWR	296-4435-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.56	.42	.32
SN74ACT564PWR	296-4435-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	372.00/2,000		
SN74ACT573DBR	296-4436-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.50	.40	.30
SN74ACT573DBR	296-4436-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	280.00/2,000		
SN74ACT573DW	296-4437-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.50	.40	.30
SN74ACT573N	296-4438-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.50	.40	.30
SN74ACT573PWR	296-4439-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.50	.40	.30
SN74ACT573PWR	296-4439-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	280.00/2,000		
SN74ACT574DBR	296-4440-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.50	.40	.30
SN74ACT574DBR	296-4440-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	280.00/2,000		
SN74ACT574DW	296-4441-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.50	.40	.30
SN74ACT574N	296-4442-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.50	.40	.30
SN74ACT574PWR	296-1078-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.50	.40	.30
SN74ACT574PWR	296-1078-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	280.00/2,000		
SN74ACT1071DR	296-14692-1-ND	10-Bit Bus Termination Array *NEW!*	14-SOIC	2.30	1.84	1.38
SN74ACT1071DR	296-14692-2-ND	10-Bit Bus Termination Array *NEW!*	14-SOIC	2945.00/2,500		
SN74ACT1073DWR	296-14693-1-ND	16-Bit Bus Termination Array *NEW!*	20-SOIC	2.41	1.93	1.50
SN74ACT1073DWR	296-14693-2-ND	16-Bit Bus Termination Array *NEW!*	20-SOIC	2728.00/2,000		
SN74ACT1284DBR	296-4365-1-ND	Tri-State 7-Bit Bus Interface	20-SSOP	.84	.70	.56
SN74ACT1284DBR	296-4365-2-ND	Tri-State 7-Bit Bus Interface	20-SSOP	744.00/2,000		
SN74ACT1284DW	296-1067-5-ND	Tri-State 7-Bit Bus Interface	20-SOIC	.84	.70	.56
SN74ACT1284DWR	296-1067-1-ND	Tri-State 7-Bit Bus Interface	20-SOIC	.84	.70	.56
SN74ACT1284DWR	296-1067-2-ND	Tri-State 7-Bit Bus Interface	20-SOIC	744.00/2,000		
SN74ACT1284PWR	296-4366-1-ND	Tri-State 7-Bit Bus Interface	20-TSSOP	.84	.70	.56
SN74ACT1284PWR	296-4366-2-ND	Tri-State 7-Bit Bus Interface	20-TSSOP	744.00/2,000		
SN74ACT8990FN	296-4505-5-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	27.00	25.20	23.40
SN74ACT8990FNR	296-4505-1-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	27.00	25.20	23.40
SN74ACT8990FNR	296-4505-2-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	11250.00/500		
SN74ACT8997DW	296-4506-5-ND	Scan Path Linker with 4-Bit ID	28-SOIC	8.33	7.50	6.65

AHC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHC00DBR	296-4507-1-ND	Quad 2-Input Positive NAND Gate	14-SSOP	.40	.32	.22
SN74AHC00DBR	296-4507-2-ND	Quad 2-Input Positive NAND Gate	14-SSOP	190.00/2,000		
SN74AHC00DGVR	296-4508-1-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	.40	.32	.22
SN74AHC00DGVR	296-4508-2-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	190.00/2,000		
SN74AHC00DR	296-4509-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.40	.32	.22
SN74AHC00DR	296-4509-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	225.00/2,500		
SN74AHC00N	296-4510-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.40	.32	.22
SN74AHC00NSR	296-13132-1-ND	Quad 2-Input Positive NAND Gate	14-SOP	.40	.32	.22
SN74AHC00NSR	296-13132-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	190.00/2,000		
SN74AHC00PWR	296-1080-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.40	.32	.22
SN74AHC00PWR	296-1080-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	190.00/2,000		
SN74AHC00RGYR	296-13893-1-ND	Quad 2-Input NAND Positive Gate *NEW!*	14-QFN	.39	.32	.22
SN74AHC00RGYR	296-13893-2-ND	Quad 2-Input NAND Positive Gate *NEW!*	14-QFN	108.00/1,000		
SN74AHC02D	296-4511-5-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.32	.22
SN74AHC02DR	296-4511-1-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.32	.22
SN74AHC02DR	296-4511-2-ND	Quad 2-Input NOR Gate	14-SOIC	225.00/2,500		
SN74AHC02DBR	296-4512-1-ND	Quad 2-Input NOR Gate	14-SSOP	.40	.32	.22
SN74AHC02DBR	296-4512-2-ND	Quad 2-Input NOR Gate	14-SSOP	190.00/2,000		
SN74AHC02DGVR	296-4513-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.40	.32	.22
SN74AHC02DGVR	296-4513-2-ND	Quad 2-Input NOR Gate	14-TVSOP	190.00/2,000		
SN74AHC02N	296-4514-5-ND	Quad 2-Input NOR Gate	14-Dip	.40	.32	.22
SN74AHC02PWR	296-4515-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.40	.32	.22
SN74AHC02PWR	296-4515-2-ND	Quad 2-Input NOR Gate	14-TSSOP	190.00/2,000		
SN74AHC02RGYR	296-13894-1-ND	Quad 2-Input NOR Gate *NEW!*	14-QFN	.39	.32	.22
SN74AHC02RGYR	296-13894-2-ND	Quad 2-Input NOR Gate *NEW!*	14-QFN	108.00/1,000		
SN74AHC04D	296-4516-5-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74AHC04DR	296-4516-1-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74AHC04DR	296-4516-2-ND	Hex Inverter	14-SOIC	225.00/2,500		
SN74AHC04DBR	296-4517-1-ND	Hex Inverter	14-SSOP	.40	.32	.22
SN74AHC04DBR	296-4517-2-ND	Hex Inverter	14-SSOP	190.00/2,000		
SN74AHC04DGVR	296-4518-1-ND	Hex Inverter	14-TVSOP	.40	.32	.22
SN74AHC04DGVR	296-4518-2-ND	Hex Inverter	14-TVSOP	190.00/2,000		
SN74AHC04N	296-4519-5-ND	Hex Inverter	14-Dip	.40	.32	.22
SN74AHC04PWR	296-1081-1-ND	Hex Inverter	14-TSSOP	.40	.32	.22
SN74AHC04PWR	296-1081-2-ND	Hex Inverter	14-TSSOP	190.00/2,000		
SN74AHC04RGYR	296-13895-1-ND	Hex Inverter *NEW!*	14-QFN	.39	.32	.22
SN74AHC04RGYR	296-13895-2-ND	Hex Inverter *NEW!*	14-QFN	108.00/1,000		
SN74AHC05D	296-1997-5-ND	Hex Inverter with OD Output	14-SOIC	.40	.32	.22
SN74AHC05DT	296-1997-1-ND	Hex Inverter with OD Output	14-SOIC	.40	.32	.22
SN74AHC05DR	296-1997-2-ND	Hex Inverter with OD Output	14-SOIC	225.00/2,500		
SN74AHC05N	296-1464-5-ND	Hex Inverter with OD Output	14-Dip	.40	.32	.22
SN74AHC05PWR	296-4520-1-ND	Hex Inverter with OD Output	14-TSSOP	.40	.32	.22
SN74AHC05PWR	296-4520-2-ND	Hex Inverter with OD Output	14-TSSOP	190.00/2,000		
SN74AHC08DBR	296-4521-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.40	.32	.22
SN74AHC08DBR	296-4521-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	190.00/2,000		
SN74AHC08DGVR	296-4522-1-ND	Quad 2-Input Positive AND Gate	14-TVSOP	.40	.32	.22
SN74AHC08DGVR	296-4522-2-ND	Quad 2-Input Positive AND Gate	14-TVSOP	190.00/2,000		
SN74AHC08D	296-4523-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.40	.32	.22
SN74AHC08DR	296-4523-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.40	.32	.22
SN74AHC08DR	296-4523-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	225.00/2,500		
SN74AHC08N	296-4524-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.40	.32	.22
SN74AHC08NSR	296-13133-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.40	.32	.22
SN74AHC08NSR	296-13133-2-ND	Quad 2-Input Positive AND Gate	14-SOP	190.00/2,000		
SN74AHC08PWR	296-1082-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.40	.32	.22
SN74AHC08PWR	296-1082-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	190.00/2,000		
SN74AHC08RGYR	296-13896-1-ND	Quad 2-Input Positive AND Gate *NEW!*	14-QFN	.40	.32	.22
SN74AHC08RGYR	296-13896-2-ND	Quad 2-Input Positive AND Gate *NEW!*	14-QFN	95.00/1,000		
SN74AHC14DBR	296-4548-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.40	.32	.22
SN74AHC14DBR	296-4548-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	190.00/2,000		
SN74AHC14DGVR	296-4549-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.40	.32	.22
SN74AHC14DGVR	296-4549-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	190.00/2,000		
SN74AHC14DR	296-1085-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.22
SN74AHC14DR	296-1085-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	225.00/2,500		
SN74AHC14N	296-4550-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.40	.32	.22
SN74AHC14PWR	296-1086-1-ND	Hex Schmitt Trigger Inverter	14-TSSOP	.40	.32	.22
SN74AHC14PWR	296-1086-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	190.00/2,000		
SN74AHC14QPWRQ1	296-13863-1-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-TSSOP	.60	.45	.34
SN74AHC14QPWRQ1	296-13863-2-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-TSSOP	400.00/2,000		
SN74AHC14RGYR	296-13901-1-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-QFN	.39	.32	.22
SN74AHC14RGYR	296-13901-2-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-QFN	108.00/1,000		
SN74AHC32DBR	296-4593-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.40	.32	.22
SN74AHC32DBR	296-4593-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	190.00/2,000		
SN74AHC32DGVR	296-4594-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.40	.32	.22
SN74AHC32DGVR	296-4594-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP	190.00/2,000		
SN74AHC32DR	296-4595-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.40	.32	.22
SN74AHC32DR	296-4595-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	225.00/2,500		
SN74AHC32N	296-4596-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.40	.32	.22
SN74AHC32NSR	296-13136-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.40	.32	.22
SN74AHC32NSR	296-13136-2-ND	Quad 2-Input Positive OR Gate	14-SOP	190.00/2,000		
SN74AHC32PWR	296-1099-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.40	.32	.22
SN74AHC32PWR	296-1099-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	190.00/2,000		
SN74AHC32RGYR	296-13903-1-ND	Quad 2-Input Positive OR Gate *NEW!*	14-QFN	.40	.32	.22
SN74AHC32RGYR	296-13903-2-ND	Quad 2-Input Positive OR Gate *NEW!*	14-QFN	95.00/1,000		
SN74AHC74D	296-1105-5-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-SOIC	.40	.32	.22
SN74AHC74DR	296-1105-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-SOIC	.40	.32	.22
SN74AHC74DR	296-1105-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-SOIC	225.00/2,500		
SN74AHC74DBR	296-4621-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-SSOP	.40	.32	.22
SN74AHC74DBR	296-4621-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-SSOP	190.00/2,000		
SN74AHC74DGVR	296-4622-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TVSOP	.40	.32	.22
SN74AHC74DGVR	296-4622-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TVSOP	190.00/2,000		
SN74AHC74N	296-4623-5-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-Dip	.40	.32	.22
SN74AHC74PWR	296-4624-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	.40	.32	.22
SN74AHC74PWR	296-4624-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	190.00/2,000		
SN74AHC74RGYR	296-13904-1-ND	Dual D-Type Flip-Flop w/Clear/Preset *NEW!*	14-QFN	.39	.32	.22
SN74AHC74RGYR	296-13904-2-ND	Dual D-Type Flip-Flop w/Clear/Preset *NEW!*	14-QFN	108.00/1,000		
SN74AHC86D	296-4625-5-ND	Quad 2-Input EX-OR Gate	14-SOIC	.40	.32	.22
SN74AHC86DR	296-4625-1-ND	Quad 2-Input EX-OR Gate	14-SOIC	.40	.32	.22
SN74AHC86DR	296-4625-2-ND	Quad 2-Input EX-OR Gate	14-SOIC	225.00/2,500		
SN74AHC86DBR	296-4626-1-ND	Quad 2-Input EX-OR Gate	14-SSOP	.40	.32	.22
SN74AHC86DBR	296-4626-2-ND	Quad 2-Input EX-OR Gate	14-SSOP	190.00/2,000		
SN74AHC86N	296-4627-5-ND	Quad 2-Input EX-OR Gate	14-Dip	.40	.32	.22
SN74AHC86PWR	296-4628-1-ND	Quad 2-Input EX-OR Gate	14-TSSOP	.40	.32	.22
SN74AHC86PWR	296-4628-2-ND	Quad 2-Input EX-OR Gate	14-TSSOP	190.00/2,000		
SN74AHC86RGYR	296-13905-1-ND	Quad 2-Input EX-OR Gate *NEW!*	14-QFN	.39	.32	.22
SN74AHC86RGYR	296-13905-2-ND	Quad 2-Input EX-OR Gate *NEW!*	14-QFN	108.00/1,000		
SN74AHC123ADBR	296-4525-1-ND	Dual Retrig Monostable Multivibrator	16-SSOP	.39	.32	.22
SN74AHC123ADBR	296-4525-2-ND	Dual Retrig Monostable Multivibrator	16-SSOP	216.00/2,000		
SN74AHC123ADGVR	296-4526-1-ND	Dual Retrig Monostable Multivibrator	16-TVSOP	.39	.32	.22
SN74AHC123ADGVR	296-4526-2-ND	Dual Retrig Monostable Multivibrator	16-TVSOP	216.00/2,000		
SN74AHC123ADR	296-4527-1-ND	Dual Retrig Monostable Multivibrator	16-SOIC	.39	.32	.22
SN74AHC123ADR	296-4527-2-ND	Dual Retrig Monostable Multivibrator	16-SOIC	255.00/2,500		
SN74AHC123APWR	296-4528-1-ND	Dual Retrig Monostable Multivibrator	16-TSSOP	.39	.32	.22
SN74AHC123APWR	296-4528-2-ND	Dual Retrig Monostable Multivibrator	16-TSSOP	216.00/2,000		
SN74AHC125DBR	296-4529-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74AHC125DBR	296-4529-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	216.00/2,000		
SN74AHC125DR	296-4530-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74AHC125DR	296-4530-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	255.00/2,500		
SN74AHC125N	296-4531-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.39	.32	.22
SN74AHC125PWR	296-1083-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.39	.32	.22
SN74AHC125PWR	296-1083-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	216.00/2,000		
SN74AHC125RGYR	296-13897-1-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	.46	.37	.26
SN74AHC125RGYR	296-13897-2-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	126.00/1,000		
SN74AHC126DBR	296-4532-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.39	.32	.22
SN74AHC126DBR	296-4532-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	216.00/2,000		
SN74AHC126DGVR	296-4533-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.39	.32	.22
SN74AHC126DGVR	296-4533-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	216.00/2,000		
SN74AHC126DR	296-4534-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74AHC126DR	296-4534-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	255.00/2,500		
SN74AHC126N	296-4535-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.39	.32	.22
SN74AHC126PWR	296-4536-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.39	.32	.22
SN74AHC126PWR	296-4536-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	216.00/2,000		
SN74AHC132D	296-1465-5-ND	Quad NAND Gate	14-SOIC	.39	.32	.22
SN74AHC132DR	296-1465-1-ND	Quad NAND Gate	14-SOIC	.39	.32	.22
SN74AHC132DR	296-1465-2-ND	Quad NAND Gate	14-SOIC	255.00/2,500		
SN74AHC132DBR	296-4537-1-ND	Quad NAND Gate	14-SSOP	.39	.32	.22
SN74AHC132DBR	296-4537-2-ND	Quad NAND Gate	14-SSOP	216.00/2,000		
SN74AHC132DGVR	296-4538-1-ND	Quad NAND Gate	14-TVSOP	.39	.32	.22
SN74AHC132DGVR	296-4538-2-ND	Quad NAND Gate	14-TVSOP	216.00/2,000		
SN74AHC132N	296-1466-5-ND	Quad NAND Gate	14-Dip	.39	.32	.22
SN74AHC132PWR	296-4539-1-ND	Quad NAND Gate	14-TSSOP	.39	.32	.22
SN74AHC132PWR	296-4539-2-ND	Quad NAND Gate	14-TSSOP	216.00/2,000		
SN74AHC132RGYR	296-13898-1-ND	Quad NAND Gate *NEW!*	14-QFN	.46	.37	.26
SN74AHC132RGYR	296-13898-2-ND	Quad NAND Gate *NEW!*	14-QFN	126.00/1,000		
SN74AHC138D	296-4540-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.39	.32	.22
SN74AHC138DR	296-4540-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.39	.32	.22
SN74AHC138DR	296-4540-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	255.00/2,500		
SN74AHC138DBR	296-4541-1-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	.39	.32	.22
SN74AHC138DBR	296-4541-2-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	216.00/2,000		
SN74AHC138N	296-4542-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.39	.32	.22
SN74AHC138PWR	296-1084-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	.39	.32	.22
SN74AHC138PWR	296-1084-2-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	216.00/2,000		
SN74AHC138RGYR	296-13899-1-ND	3-8 Line Decoder/Demultiplexer *NEW!*	16-QFN	.46	.37	.26
SN74AHC138RGYR	296-13899-2-ND	3-8 Line Decoder/Demultiplexer *NEW!*	16-QFN	126.00/1,000		
SN74AHC139D	296-4543-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.39	.32	.22
SN74AHC139DBR	296-4544-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.39	.32	.22
SN74AHC139DBR	296-4544-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	216.00/2,000		
SN74AHC139DGVR	296-4545-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	.39	.32	.22
SN74AHC139DGVR	296-4545-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	216.00/2,000		
SN74AHC139N	296-4546-5-ND	Dual 2-4 Decoder/Demultiplexer	16-Dip	.39	.32	.22
SN74AHC139PWR	296-4547-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.39	.32	.22

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHC139PWR	296-4547-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	216.00/2,000		
SN74AHC139RGYR	296-13900-1-ND	Dual 2-4 Decoder/Demultiplexer *NEW!*	16-QFN	.46	.37	.26
SN74AHC139RGYR	296-13900-2-ND	Dual 2-4 Decoder/Demultiplexer *NEW!*	16-QFN	126.00/1,000		
SN74AHC157D	296-4551-5-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.50	.40	.30
SN74AHC157DBR	296-4552-1-ND	Quad 2-1 Data Selector/Mux	16-SSOP	.50	.40	.30
SN74AHC157DBR	296-4552-2-ND	Quad 2-1 Data Selector/Mux	16-SSOP	280.00/2,000		
SN74AHC157DGVR	296-4553-1-ND	Quad 2-1 Data Selector/Mux	16-TVSOP	.50	.40	.30
SN74AHC157DGVR	296-4553-2-ND	Quad 2-1 Data Selector/Mux	16-TVSOP	280.00/2,000		
SN74AHC157DR	296-14700-1-ND	Quad 2-1 Data Selector/Mux *NEW!*	16-SOIC	.50	.40	.30
SN74AHC157DR	296-14700-2-ND	Quad 2-1 Data Selector/Mux *NEW!*	16-SOIC	337.50/2,500		
SN74AHC157N	296-4554-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.50	.40	.30
SN74AHC157NSR	296-13134-1-ND	Quad 2-1 Data Selector/Mux	16-SOP	.50	.40	.30
SN74AHC157NSR	296-13134-2-ND	Quad 2-1 Data Selector/Mux	16-SOP	280.00/2,000		
SN74AHC157PWR	296-4555-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	.50	.40	.30
SN74AHC157PWR	296-4555-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	280.00/2,000		
SN74AHC157RGYR	296-13902-1-ND	Quad 2-1 Data Selector/Mux *NEW!*	16-QFN	.55	.44	.33
SN74AHC157RGYR	296-13902-2-ND	Quad 2-1 Data Selector/Mux *NEW!*	16-QFN	154.00/1,000		
SN74AHC158DBR	296-4556-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	.50	.40	.30
SN74AHC158DBR	296-4556-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	280.00/2,000		
SN74AHC158DGVR	296-4557-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	.50	.40	.30
SN74AHC158DGVR	296-4557-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	280.00/2,000		
SN74AHC158DR	296-4558-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.50	.40	.30
SN74AHC158DR	296-4558-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	337.50/2,500		
SN74AHC158PWR	296-4559-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	.50	.40	.30
SN74AHC158PWR	296-4559-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	280.00/2,000		
SN74AHC174D	296-1467-5-ND	Hex D-Type Flip-Flop w/Clear	16-SOIC	.50	.40	.30
SN74AHC174DBR	296-4578-1-ND	Hex D-Type Flip-Flop w/Clear	16-SSOP	.50	.40	.30
SN74AHC174DBR	296-4578-2-ND	Hex D-Type Flip-Flop w/Clear	16-SSOP	280.00/2,000		
SN74AHC174N	296-1468-5-ND	Hex D-Type Flip-Flop w/Clear	16-Dip	.50	.40	.30
SN74AHC174PWR	296-12739-1-ND	Hex D-Type Flip-Flop w/Clear	16-TSSOP	.50	.40	.30
SN74AHC174PWR	296-12739-2-ND	Hex D-Type Flip-Flop w/Clear	16-TSSOP	280.00/2,000		
SN74AHC240DBR	296-4579-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.49	.40	.27
SN74AHC240DBR	296-4579-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	270.00/2,000		
SN74AHC240DGVR	296-12858-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.49	.40	.27
SN74AHC240DGVR	296-12858-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	270.00/2,000		
SN74AHC240DW	296-4580-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHC240DWR	296-4580-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHC240DWR	296-4580-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	270.00/2,000		
SN74AHC240N	296-4581-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.49	.40	.27
SN74AHC240PWR	296-4582-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.49	.40	.27
SN74AHC240PWR	296-4582-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	270.00/2,000		
SN74AHC244DBR	296-4583-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.49	.40	.27
SN74AHC244DBR	296-4583-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	270.00/2,000		
SN74AHC244DGVR	296-4584-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.49	.40	.27
SN74AHC244DGVR	296-4584-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	270.00/2,000		
SN74AHC244DW	296-1096-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHC244DWR	296-1096-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHC244DWR	296-1096-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	270.00/2,000		
SN74AHC244N	296-4585-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.49	.40	.27
SN74AHC244PWR	296-1097-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.49	.40	.27
SN74AHC244PWR	296-1097-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	270.00/2,000		
SN74AHC245DBR	296-4586-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.49	.40	.27
SN74AHC245DBR	296-4586-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	270.00/2,000		
SN74AHC245DGVR	296-4587-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.49	.40	.27
SN74AHC245DGVR	296-4587-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	270.00/2,000		
SN74AHC245DW	296-4588-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.49	.40	.27
SN74AHC245N	296-4589-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.49	.40	.27
SN74AHC245NSR	296-13135-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.52	.42	.29
SN74AHC245NSR	296-13135-2-ND	Tri-State Octal Bus Transceiver	20-SOP	288.00/2,000		
SN74AHC245PWR	296-1098-1-ND	Tri-State Octal Transceiver	20-TSSOP	.49	.40	.27
SN74AHC245PWR	296-1098-2-ND	Tri-State Octal Transceiver	20-TSSOP	270.00/2,000		
SN74AHC273DBR	296-4590-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.49	.40	.27
SN74AHC273DBR	296-4590-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	270.00/2,000		
SN74AHC273DGVR	296-4591-1-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	.49	.40	.27
SN74AHC273DGVR	296-4591-2-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	270.00/2,000		
SN74AHC273DW	296-1470-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.49	.40	.27
SN74AHC273DWR	296-1470-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.49	.40	.27
SN74AHC273DWR	296-1470-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	270.00/2,000		
SN74AHC273N	296-1471-5-ND	Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
SN74AHC273PWR	296-4592-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.49	.40	.27
SN74AHC273PWR	296-4592-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	270.00/2,000		
SN74AHC367DR	296-4597-1-ND	Tri-State Hex Buff/Driver	16-SOIC	1.05	.88	.70
SN74AHC367DR	296-4597-2-ND	Tri-State Hex Buff/Driver	16-SOIC	1137.50/2,500		
SN74AHC373DBR	296-4598-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.49	.40	.27
SN74AHC373DBR	296-4598-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	270.00/2,000		
SN74AHC373DW	296-4599-5-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
SN74AHC373N	296-4600-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.49	.40	.27
SN74AHC373NSR	296-13137-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOP	.52	.42	.29
SN74AHC373NSR	296-13137-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOP	288.00/2,000		
SN74AHC373PWR	296-1100-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.49	.40	.27
SN74AHC373PWR	296-1100-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	270.00/2,000		
SN74AHC374DBR	296-1101-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.49	.40	.27
SN74AHC374DBR	296-1101-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	270.00/2,000		
SN74AHC374DGVR	296-4601-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.49	.40	.27
SN74AHC374DGVR	296-4601-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	270.00/2,000		
SN74AHC374DW	296-4602-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74AHC374DWR	296-4602-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74AHC374DWR	296-4602-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	270.00/2,000		
SN74AHC374N	296-4603-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
SN74AHC374PWR	296-1102-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.49	.40	.27
SN74AHC374PWR	296-1102-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	270.00/2,000		
SN74AHC540DBR	296-4604-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.49	.40	.27
SN74AHC540DBR	296-4604-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	270.00/2,000		
SN74AHC540DW	296-4605-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHC540DWR	296-4605-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHC540DWR	296-4605-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	270.00/2,000		
SN74AHC540N	296-4606-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.49	.40	.27
SN74AHC540PWR	296-4607-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.49	.40	.27
SN74AHC540PWR	296-4607-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	270.00/2,000		
SN74AHC541DBR	296-4608-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.49	.40	.27
SN74AHC541DBR	296-4608-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	270.00/2,000		
SN74AHC541DGVR	296-12740-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.49	.40	.27
SN74AHC541DGVR	296-12740-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	270.00/2,000		
SN74AHC541DWR	296-4609-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHC541DWR	296-4609-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	270.00/2,000		
SN74AHC541N	296-4610-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.49	.40	.27
SN74AHC541NSR	296-13138-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.52	.42	.29
SN74AHC541NSR	296-13138-2-ND	Tri-State Octal Buffer/Driver	20-SOP	270.00/2,000		
SN74AHC541PWR	296-1103-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.49	.40	.27
SN74AHC541PWR	296-1103-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	270.00/2,000		
SN74AHC573DBR	296-4611-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.49	.40	.27
SN74AHC573DBR	296-4611-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	270.00/2,000		
SN74AHC573DGVR	296-13818-1-ND	Tri-State Octal Transp. D-Type Latch *NEW!*	20-TVSOP	.49	.40	.27
SN74AHC573DGVR	296-13818-2-ND	Tri-State Octal Transp. D-Type Latch *NEW!*	20-TVSOP	270.00/2,000		
SN74AHC573DW	296-4612-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.49	.40	.27
SN74AHC573DWR	296-4612-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.49	.40	.27
SN74AHC573DWR	296-4612-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	270.00/2,000		
SN74AHC573N	296-4613-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.49	.40	.27
SN74AHC573PWR	296-1104-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.49	.40	.27
SN74AHC573PWR	296-1104-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	270.00/2,000		
SN74AHC574DBR	296-4614-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.49	.40	.27
SN74AHC574DBR	296-4614-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	270.00/2,000		
SN74AHC574DWR	296-4615-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74AHC574DWR	296-4615-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	270.00/2,000		
SN74AHC574N	296-4616-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
SN74AHC574PWR	296-4617-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.49	.40	.27
SN74AHC574PWR	296-4617-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	270.00/2,000		
SN74AHC595D	296-4618-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.96	.72	.54
SN74AHC595N	296-4619-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.96	.72	.54
SN74AHC595PWR	296-4620-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.96	.72	.54
SN74AHC595PWR	296-4620-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	638.00/2,000		
SN74AHC16240DGGR	296-4560-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74AHC16240DGGR	296-4560-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74AHC16240DGVR	296-4561-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74AHC16240DGVR	296-4561-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74AHC16240DL	296-4562-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74AHC16244DGGR	296-4563-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74AHC16244DGGR	296-4563-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74AHC16244DGVR	296-4564-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74AHC16244DGVR	296-4564-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74AHC16244DL	296-4565-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74AHC16373DGGR	296-4566-1-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-TSSOP	1.20	1.00	.80
SN74AHC16373DGGR	296-4566-2-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-TSSOP	1064.00/2,000		
SN74AHC16373DGVR	296-4567-1-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-TVSOP	1.20	1.00	.80
SN74AHC16373DGVR	296-4567-2-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-TVSOP	1064.00/2,000		
SN74AHC16373DL	296-4568-5-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-SSOP	1.20	1.00	.80
SN74AHC16373DLR	296-4568-1-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-SSOP	1.20	1.00	.80
SN74AHC16373DLR	296-4568-2-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-SSOP	532.00/1,000		
SN74AHC16374DGGR	296-4569-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.20	1.00	.80
SN74AHC16374DGGR	296-4569-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1064.00/2,000		
SN74AHC16374DGVR	296-4570-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.20	1.00	.80
SN74AHC16374DGVR	296-4570-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1064.00/2,000		
SN74AHC16374DL	296-4571-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.20	1.00	.80
SN74AHC16540DGGR	296-4572-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74AHC16540DGGR	296-4572-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74AHC16540DGVR	296-4573-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74AHC16540DGVR	296-4573-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74AHC16540DL	296-4574-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74AHC16541DGGR	296-4575-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74AHC16541DGGR	296-4575-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74AHC16541DGVR	296-4576-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74AHC16541DGVR	296-4576-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74AHC16541DL	296-4577-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80

AHCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT00D	296-4629-5-ND	Quad 2-Input NAND Gate	14-SOP	.40	.32	.22
SN74AHCT00DR	296-4629-1-ND	Quad 2-Input NAND Gate	14-SOP	.40	.32	.22
SN74AHCT00DR	296-4629-2-ND	Quad 2-Input NAND Gate	14-SOP	225.00/2,500		
SN74AHCT00DBR	296-4630-1-ND	Quad 2-Input NAND Gate	14-SSOP	.40	.32	.22
SN74AHCT00DBR	296-4630-2-ND	Quad 2-Input NAND Gate	14-SSOP	190.00/2,000		
SN74AHCT00DGVR	296-4631-1-ND	Quad 2-Input NAND Gate	14-TVSOP	.40	.32	.22
SN74AHCT00DGVR	296-4631-2-ND	Quad 2-Input NAND Gate	14-TVSOP	190.00/2,000		
SN74AHCT00N	296-4632-5-ND	Quad 2-Input NAND Gate	14-Dip	.40	.32	.22
SN74AHCT00PWR	296-4633-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.40	.32	.22
SN74AHCT00PWR	296-4633-2-ND	Quad 2-Input NAND Gate	14-TSSOP	190.00/2,000		
SN74AHCT00QDRQ1	296-14349-1-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	.60	.45	.34
SN74AHCT00QDRQ1	296-14349-2-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	487.50/2,500		
SN74AHCT00QPWRQ1	296-13864-1-ND	Quad 2-Input NAND Gate *NEW!*	14-TSSOP	.60	.45	.34
SN74AHCT00QPWRQ1	296-13864-2-ND	Quad 2-Input NAND Gate *NEW!*	14-TSSOP	400.00/2,000		
SN74AHCT00RGYR	296-13906-1-ND	Quad 2-Input NAND Gate *NEW!*	14-QFN	.39	.32	.22
SN74AHCT00RGYR	296-13906-2-ND	Quad 2-Input NAND Gate *NEW!*	14-QFN	108.00/1,000		
SN74AHCT02D	296-4634-5-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.32	.22
SN74AHCT02DR	296-4635-1-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.32	.22
SN74AHCT02DR	296-4635-2-ND	Quad 2-Input NOR Gate	14-SOIC	225.00/2,500		
SN74AHCT02DBR	296-4636-1-ND	Quad 2-Input NOR Gate	14-SSOP	.40	.32	.22
SN74AHCT02DBR	296-4636-2-ND	Quad 2-Input NOR Gate	14-SSOP	190.00/2,000		
SN74AHCT02DGVR	296-4637-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.40	.32	.22
SN74AHCT02DGVR	296-4637-2-ND	Quad 2-Input NOR Gate	14-TVSOP	190.00/2,000		
SN74AHCT02N	296-4638-5-ND	Quad 2-Input NOR Gate	14-Dip	.40	.32	.22
SN74AHCT02PWR	296-4639-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.40	.32	.22
SN74AHCT02PWR	296-4639-2-ND	Quad 2-Input NOR Gate	14-TSSOP	190.00/2,000		
SN74AHCT02RGYR	296-13907-1-ND	Quad 2-Input NOR Gate *NEW!*	14-QFN	.39	.32	.22
SN74AHCT02RGYR	296-13907-2-ND	Quad 2-Input NOR Gate *NEW!*	14-QFN	108.00/1,000		
SN74AHCT04DBR	296-4640-1-ND	Hex Inverter	14-SSOP	.40	.32	.22
SN74AHCT04DBR	296-4640-2-ND	Hex Inverter	14-SSOP	190.00/2,000		
SN74AHCT04DGVR	296-4641-1-ND	Hex Inverter	14-TVSOP	.40	.32	.22
SN74AHCT04DGVR	296-4641-2-ND	Hex Inverter	14-TVSOP	190.00/2,000		
SN74AHCT04DR	296-4642-1-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74AHCT04DR	296-4642-2-ND	Hex Inverter	14-SOIC	225.00/2,500		
SN74AHCT04N	296-4643-5-ND	Hex Inverter	14-Dip	.40	.32	.22
SN74AHCT04NSR	296-13139-1-ND	Hex Inverter	14-SOP	.40	.32	.22
SN74AHCT04NSR	296-13139-2-ND	Hex Inverter	14-SOP	190.00/2,000		
SN74AHCT04PWR	296-1106-1-ND	Hex Inverter	14-TSSOP	.40	.32	.22
SN74AHCT04PWR	296-1106-2-ND	Hex Inverter	14-TSSOP	190.00/2,000		
SN74AHCT04RGYR	296-13908-1-ND	Hex Inverter *NEW!*	14-QFN	.39	.32	.22

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT04RGYR	296-13908-2-ND	Hex Inverter *NEW!*	14-QFN	108.00/1,000		
SN74AHCT08D	296-4644-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.40	.32	.22
SN74AHCT08DR	296-4644-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.40	.32	.22
SN74AHCT08DR	296-4644-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	225.00/2,500		
SN74AHCT08DBR	296-4645-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.40	.32	.22
SN74AHCT08DBR	296-4645-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	190.00/2,000		
SN74AHCT08DGVR	296-4646-1-ND	Quad 2-Input Positive AND Gate	14-TVSOP	.40	.32	.22
SN74AHCT08DGVR	296-4646-2-ND	Quad 2-Input Positive AND Gate	14-TVSOP	190.00/2,000		
SN74AHCT08N	296-4647-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.40	.32	.22
SN74AHCT08NSR	296-13140-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.40	.32	.22
SN74AHCT08NSR	296-13140-2-ND	Quad 2-Input Positive AND Gate	14-SOP	190.00/2,000		
SN74AHCT08PWR	296-1107-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.40	.32	.22
SN74AHCT08PWR	296-1107-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	190.00/2,000		
SN74AHCT08RGYR	296-13909-1-ND	Quad 2-Input Positive AND Gate *NEW!*	14-QFN	.39	.32	.22
SN74AHCT08RGYR	296-13909-2-ND	Quad 2-Input Positive AND Gate *NEW!*	14-QFN	108.00/1,000		
SN74AHCT14D	296-1474-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.22
SN74AHCT14DR	296-1474-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.22
SN74AHCT14DR	296-1474-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	225.00/2,500		
SN74AHCT14DBR	296-4672-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.40	.32	.22
SN74AHCT14DBR	296-4672-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	190.00/2,000		
SN74AHCT14DGVR	296-4673-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.40	.32	.22
SN74AHCT14DGVR	296-4673-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	190.00/2,000		
SN74AHCT14RGYR	296-13912-1-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-QFN	.39	.32	.22
SN74AHCT14RGYR	296-13912-2-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-QFN	108.00/1,000		
SN74AHCT14N	296-4674-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.40	.32	.22
SN74AHCT14NSR	296-13142-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.40	.32	.22
SN74AHCT14NSR	296-13142-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	190.00/2,000		
SN74AHCT14PWR	296-1110-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.40	.32	.22
SN74AHCT14PWR	296-1110-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	190.00/2,000		
SN74AHCT14QPWRQ1	296-13654-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.60	.45	.34
SN74AHCT14QPWRQ1	296-13654-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	400.00/2,000		
SN74AHCT32D	296-4728-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.40	.32	.22
SN74AHCT32DBR	296-4729-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.40	.32	.22
SN74AHCT32DBR	296-4729-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	190.00/2,000		
SN74AHCT32DGVR	296-4730-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.40	.32	.22
SN74AHCT32DGVR	296-4730-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP	190.00/2,000		
SN74AHCT32DR	296-4731-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.40	.32	.22
SN74AHCT32DR	296-4731-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	225.00/2,500		
SN74AHCT32N	296-4732-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.40	.32	.22
SN74AHCT32NSR	296-13144-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.40	.32	.22
SN74AHCT32NSR	296-13144-2-ND	Quad 2-Input Positive OR Gate	14-SOP	190.00/2,000		
SN74AHCT32PWR	296-1119-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.40	.32	.22
SN74AHCT32PWR	296-1119-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	190.00/2,000		
SN74AHCT32RGYR	296-13913-1-ND	Quad 2-Input Positive OR Gate *NEW!*	14-QFN	.39	.32	.22
SN74AHCT32RGYR	296-13913-2-ND	Quad 2-Input Positive OR Gate *NEW!*	14-QFN	108.00/1,000		
SN74AHCT74D	296-4769-5-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-SOIC	.40	.32	.22
SN74AHCT74DBR	296-4770-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-SSOP	.40	.32	.22
SN74AHCT74DBR	296-4770-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-SSOP	190.00/2,000		
SN74AHCT74DGVR	296-4771-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TVSOP	.40	.32	.22
SN74AHCT74DGVR	296-4771-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TVSOP	190.00/2,000		
SN74AHCT74DR	296-14704-1-ND	Dual D-Type Flip-Flop w/Clear/Preset *NEW!*	14-SOIC	.40	.32	.22
SN74AHCT74DR	296-14704-2-ND	Dual D-Type Flip-Flop w/Clear/Preset *NEW!*	14-SOIC	225.00/2,500		
SN74AHCT74N	296-4772-5-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-Dip	.40	.32	.22
SN74AHCT74PWR	296-4773-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	.40	.32	.22
SN74AHCT74PWR	296-4773-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	190.00/2,000		
SN74AHCT74RGYR	296-13914-1-ND	Dual D-Type Flip-Flop w/Clear/Preset *NEW!*	14-QFN	.60	.45	.34
SN74AHCT74RGYR	296-13914-2-ND	Dual D-Type Flip-Flop w/Clear/Preset *NEW!*	14-QFN	200.00/1,000		
SN74AHCT86DBR	296-4774-1-ND	Quad 2-Input EX-OR Gate	14-SSOP	.40	.32	.22
SN74AHCT86DBR	296-4774-2-ND	Quad 2-Input EX-OR Gate	14-SSOP	190.00/2,000		
SN74AHCT86DGVR	296-4775-1-ND	Quad 2-Input EX-OR Gate	14-TVSOP	.40	.32	.22
SN74AHCT86DGVR	296-4775-2-ND	Quad 2-Input EX-OR Gate	14-TVSOP	190.00/2,000		
SN74AHCT86DR	296-4776-1-ND	Quad 2-Input EX-OR Gate	14-SOIC	.40	.32	.22
SN74AHCT86DR	296-4776-2-ND	Quad 2-Input EX-OR Gate	14-SOIC	225.00/2,500		
SN74AHCT86N	296-4777-5-ND	Quad 2-Input EX-OR Gate	14-Dip	.40	.32	.22
SN74AHCT86PWR	296-4778-1-ND	Quad 2-Input EX-OR Gate	14-TSSOP	.40	.32	.22
SN74AHCT86PWR	296-4778-2-ND	Quad 2-Input EX-OR Gate	14-TSSOP	190.00/2,000		
SN74AHCT86RGYR	296-13915-1-ND	Quad 2-Input EX-OR Gate *NEW!*	14-QFN	.39	.32	.22
SN74AHCT86RGYR	296-13915-2-ND	Quad 2-Input EX-OR Gate *NEW!*	14-QFN	108.00/1,000		
SN74AHCT123ADBR	296-4648-1-ND	Dual Retrig. Mono Multivibrator	16-SSOP	.39	.32	.22
SN74AHCT123ADBR	296-4648-2-ND	Dual Retrig. Mono Multivibrator	16-SSOP	216.00/2,000		
SN74AHCT123ADGVR	296-4649-1-ND	Dual Retrig. Mono Multivibrator	16-TVSOP	.39	.32	.22
SN74AHCT123ADGVR	296-4649-2-ND	Dual Retrig. Mono Multivibrator	16-TVSOP	216.00/2,000		
SN74AHCT123ADR	296-4650-1-ND	Dual Retrig. Mono Multivibrator	16-SOIC	.39	.32	.22
SN74AHCT123ADR	296-4650-2-ND	Dual Retrig. Mono Multivibrator	16-SOIC	255.00/2,500		
SN74AHCT123APWR	296-4651-1-ND	Dual Retrig. Mono Multivibrator	16-TSSOP	.39	.32	.22
SN74AHCT123APWR	296-4651-2-ND	Dual Retrig. Mono Multivibrator	16-TSSOP	216.00/2,000		
SN74AHCT125D	296-4652-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74AHCT125DR	296-4652-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74AHCT125DR	296-4652-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	255.00/2,500		
SN74AHCT125DBR	296-4653-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.39	.32	.22
SN74AHCT125DBR	296-4653-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	216.00/2,000		
SN74AHCT125DGVR	296-4654-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.39	.32	.22
SN74AHCT125DGVR	296-4654-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	216.00/2,000		
SN74AHCT125N	296-4655-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.39	.32	.22
SN74AHCT125PWR	296-1108-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.39	.32	.22
SN74AHCT125PWR	296-1108-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	216.00/2,000		
SN74AHCT125RGYR	296-13910-1-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	.46	.37	.26
SN74AHCT125RGYR	296-13910-2-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	126.00/1,000		
SN74AHCT126DBR	296-4656-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.39	.32	.22
SN74AHCT126DBR	296-4656-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	216.00/2,000		
SN74AHCT126DGVR	296-4657-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.39	.32	.22
SN74AHCT126DGVR	296-4657-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	216.00/2,000		
SN74AHCT126DR	296-4658-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74AHCT126DR	296-4658-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	255.00/2,500		
SN74AHCT126N	296-4659-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.39	.32	.22
SN74AHCT126PWR	296-4660-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.39	.32	.22
SN74AHCT126PWR	296-4660-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	216.00/2,000		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT132D	296-1472-5-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SOIC	.39	.32	.22
SN74AHCT132DBR	296-4661-1-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SSOP	.39	.32	.22
SN74AHCT132DBR	296-4661-2-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SSOP	216.00/2,000		
SN74AHCT132N	296-1473-5-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-Dip	.39	.32	.22
SN74AHCT132NSR	296-13141-1-ND	Quad Positive NAND Gate with Schmitt-Trigger Input	14-SOP	.39	.32	.22
SN74AHCT132NSR	296-13141-2-ND	Quad Positive NAND Gate with Schmitt-Trigger Input	14-SOP	216.00/2,000		
SN74AHCT132PWR	296-4662-1-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-TSSOP	.39	.32	.22
SN74AHCT132PWR	296-4662-2-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-TSSOP	216.00/2,000		
SN74AHCT138D	296-4663-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.39	.32	.22
SN74AHCT138DBR	296-4664-1-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	.39	.32	.22
SN74AHCT138DBR	296-4664-2-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	216.00/2,000		
SN74AHCT138DGVR	296-4665-1-ND	3-8 Line Decoder/Demultiplexer	16-TVSOP	.39	.32	.22
SN74AHCT138DGVR	296-4665-2-ND	3-8 Line Decoder/Demultiplexer	16-TVSOP	216.00/2,000		
SN74AHCT138DR	296-14701-1-ND	3-8 Line Decoder/Demultiplexer *NEW!*	16-SOIC	.39	.32	.22
SN74AHCT138DR	296-14701-2-ND	3-8 Line Decoder/Demultiplexer *NEW!*	16-SOIC	255.00/2,500		
SN74AHCT138N	296-4666-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.39	.32	.22
SN74AHCT138PWR	296-1109-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	.39	.32	.22
SN74AHCT138PWR	296-1109-2-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	216.00/2,000		
SN74AHCT138RGYR	296-13911-1-ND	3-8 Line Decoder/Demultiplexer *NEW!*	16-QFN	.46	.37	.26
SN74AHCT138RGYR	296-13911-2-ND	3-8 Line Decoder/Demultiplexer *NEW!*	16-QFN	126.00/1,000		
SN74AHCT139D	296-4667-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.39	.32	.22
SN74AHCT139DBR	296-4668-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.39	.32	.22
SN74AHCT139DBR	296-4668-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	216.00/2,000		
SN74AHCT139DGVR	296-4669-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	.39	.32	.22
SN74AHCT139DGVR	296-4669-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	216.00/2,000		
SN74AHCT139DR	296-14702-1-ND	Dual 2-4 Decoder/Demultiplexer *NEW!*	16-SOIC	.39	.32	.22
SN74AHCT139DR	296-14702-2-ND	Dual 2-4 Decoder/Demultiplexer *NEW!*	16-SOIC	255.00/2,500		
SN74AHCT139N	296-4670-5-ND	Dual 2-4 Decoder/Demultiplexer	16-Dip	.39	.32	.22
SN74AHCT139PWR	296-4671-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.39	.32	.22
SN74AHCT139PWR	296-4671-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	216.00/2,000		
SN74AHCT157D	296-4675-5-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.50	.40	.30
SN74AHCT157DBR	296-4676-1-ND	Quad 2-to-1 Data Selector/Mux	16-SSOP	.50	.40	.30
SN74AHCT157DBR	296-4676-2-ND	Quad 2-to-1 Data Selector/Mux	16-SSOP	280.00/2,000		
SN74AHCT157DGVR	296-4677-1-ND	Quad 2-to-1 Data Selector/Mux	16-TVSOP	.50	.40	.30
SN74AHCT157DGVR	296-4677-2-ND	Quad 2-to-1 Data Selector/Mux	16-TVSOP	280.00/2,000		
SN74AHCT157DR	296-14703-1-ND	Quad 2-to-1 Data Selector/Mux *NEW!*	16-SOIC	.50	.40	.30
SN74AHCT157DR	296-14703-2-ND	Quad 2-to-1 Data Selector/Mux *NEW!*	16-SOIC	337.50/2,500		
SN74AHCT157PWR	296-4678-1-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	.50	.40	.30
SN74AHCT157PWR	296-4678-2-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	280.00/2,000		
SN74AHCT158D	296-4679-5-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.50	.40	.30
SN74AHCT158PWR	296-4680-1-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	.50	.40	.30
SN74AHCT158PWR	296-4680-2-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	280.00/2,000		
SN74AHCT174D	296-1475-5-ND	Hex D-Type Flip-Flop	16-SOIC	.72	.54	.41
SN74AHCT174DBR	296-4702-1-ND	Hex D-Type Flip-Flop	16-SSOP	.72	.54	.41
SN74AHCT174DBR	296-4702-2-ND	Hex D-Type Flip-Flop	16-SSOP	478.00/2,000		
SN74AHCT240DBR	296-4716-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.49	.40	.27
SN74AHCT240DBR	296-4716-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	270.00/2,000		
SN74AHCT240DW	296-4717-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHCT240DWR	296-4717-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHCT240DWR	296-4717-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	270.00/2,000		
SN74AHCT240N	296-4718-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.49	.40	.27
SN74AHCT240NSR	296-13444-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.52	.42	.29
SN74AHCT240NSR	296-13444-2-ND	Tri-State Octal Buffer/Driver	20-SOP	288.00/2,000		
SN74AHCT240PWR	296-4719-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.49	.40	.27
SN74AHCT240PWR	296-4719-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	270.00/2,000		
SN74AHCT244DBR	296-4720-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.49	.40	.27
SN74AHCT244DBR	296-4720-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	270.00/2,000		
SN74AHCT244DGVR	296-4721-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.49	.40	.27
SN74AHCT244DGVR	296-4721-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	270.00/2,000		
SN74AHCT244DW	296-4722-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHCT244DWR	296-4722-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.49	.40	.27
SN74AHCT244DWR	296-4722-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	270.00/2,000		
SN74AHCT244N	296-4723-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.49	.40	.27
SN74AHCT244NSR	296-13143-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.52	.42	.29
SN74AHCT244NSR	296-13143-2-ND	Tri-State Octal Buffer/Driver	20-SOP	288.00/2,000		
SN74AHCT244PWR	296-1116-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.49	.40	.27
SN74AHCT244PWR	296-1116-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	270.00/2,000		
SN74AHCT244QPWR	296-13865-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-TSSOP	.88	.66	.50
SN74AHCT244QPWR	296-13865-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-TSSOP	586.00/2,000		
SN74AHCT245DBR	296-4724-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.49	.40	.27
SN74AHCT245DBR	296-4724-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	270.00/2,000		
SN74AHCT245DGVR	296-4725-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.49	.40	.27
SN74AHCT245DGVR	296-4725-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	270.00/2,000		
SN74AHCT245DW	296-1117-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.49	.40	.27
SN74AHCT245DWR	296-1117-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.49	.40	.27
SN74AHCT245DWR	296-1117-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	270.00/2,000		
SN74AHCT245N	296-1476-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.49	.40	.27
SN74AHCT245PWR	296-1118-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.49	.40	.27
SN74AHCT245PWR	296-1118-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	270.00/2,000		
SN74AHCT273DBR	296-4726-1-ND	Octal D-Type Flip-Flop w/Clear	20-SSOP	.52	.42	.29
SN74AHCT273DBR	296-4726-2-ND	Octal D-Type Flip-Flop w/Clear	20-SSOP	288.00/2,000		
SN74AHCT273DW	296-13489-5-ND	Octal D-Type Flip-Flop w/Clear	20-SOIC	.52	.42	.29
SN74AHCT273PWR	296-4727-1-ND	Octal D-Type Flip-Flop w/Clear	20-TSSOP	.52	.42	.29
SN74AHCT273PWR	296-4727-2-ND	Octal D-Type Flip-Flop w/Clear	20-TSSOP	288.00/2,000		
SN74AHCT367DBR	296-4733-1-ND	Tri-State Hex Buffer/Driver	16-SSOP	1.05	.88	.70
SN74AHCT367DBR	296-4733-2-ND	Tri-State Hex Buffer/Driver	16-SSOP	932.00/2,000		
SN74AHCT367DGVR	296-4734-1-ND	Tri-State Hex Buffer/Driver	16-TVSOP	1.05	.88	.70
SN74AHCT367DGVR	296-4734-2-ND	Tri-State Hex Buffer/Driver	16-TVSOP	932.00/2,000		
SN74AHCT367DR	296-4735-1-ND	Tri-State Hex Buffer/Driver	16-SOIC	1.05	.88	.70
SN74AHCT367DR	296-4735-2-ND	Tri-State Hex Buffer/Driver	16-SOIC	1137.50/2,500		
SN74AHCT367PWR	296-4736-1-ND	Tri-State Hex Buffer/Driver	16-TSSOP	1.05	.88	.70
SN74AHCT367PWR	296-4736-2-ND	Tri-State Hex Buffer/Driver	16-TSSOP	932.00/2,000		
SN74AHCT373DBR	296-4737-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.49	.40	.27
SN74AHCT373DBR	296-4737-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	270.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT373DW	296-4739-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
SN74AHCT373DWR	296-4739-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
SN74AHCT373DWR	296-4739-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	270.00/2,000		
SN74AHCT373N	296-4740-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.49	.40	.27
SN74AHCT373PWR	296-4741-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.49	.40	.27
SN74AHCT373PWR	296-4741-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	270.00/2,000		
SN74AHCT374DBR	296-4742-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SSOP	.49	.40	.27
SN74AHCT374DBR	296-4742-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SSOP	270.00/2,000		
SN74AHCT374DGVR	296-4743-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TVSOP	.49	.40	.27
SN74AHCT374DGVR	296-4743-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TVSOP	270.00/2,000		
SN74AHCT374DWR	296-4744-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SOIC	.49	.40	.27
SN74AHCT374DWR	296-4744-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SOIC	270.00/2,000		
SN74AHCT374N	296-4745-5-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-Dip	.49	.40	.27
SN74AHCT374PWR	296-4746-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TSSOP	.49	.40	.27
SN74AHCT374PWR	296-4746-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TSSOP	270.00/2,000		
SN74AHCT540DBR	296-4747-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74AHCT540DBR	296-4747-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	280.00/2,000		
SN74AHCT540DGVR	296-4748-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.50	.40	.30
SN74AHCT540DGVR	296-4748-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	280.00/2,000		
SN74AHCT540DW	296-4749-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74AHCT540DWR	296-4749-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74AHCT540DWR	296-4749-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	280.00/2,000		
SN74AHCT540N	296-4750-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.50	.40	.30
SN74AHCT540PWR	296-4751-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74AHCT540PWR	296-4751-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	280.00/2,000		
SN74AHCT541DBR	296-4752-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74AHCT541DBR	296-4752-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	280.00/2,000		
SN74AHCT541DWR	296-4754-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74AHCT541DWR	296-4754-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	280.00/2,000		
SN74AHCT541N	296-4755-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.50	.40	.30
SN74AHCT541NSR	296-13145-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.50	.40	.30
SN74AHCT541NSR	296-13145-2-ND	Tri-State Octal Buffer/Driver	20-SOP	280.00/2,000		
SN74AHCT541PWR	296-1120-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74AHCT541PWR	296-1120-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	280.00/2,000		
SN74AHCT573DBR	296-4756-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.49	.40	.27
SN74AHCT573DBR	296-4756-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	270.00/2,000		
SN74AHCT573DGVR	296-4757-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TVSOP	.49	.40	.27
SN74AHCT573DGVR	296-4757-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TVSOP	270.00/2,000		
SN74AHCT573DW	296-4758-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
SN74AHCT573DWR	296-4758-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
SN74AHCT573DWR	296-4758-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	270.00/2,000		
SN74AHCT573N	296-4759-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.49	.40	.27
SN74AHCT573PWR	296-1121-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.49	.40	.27
SN74AHCT573PWR	296-1121-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	270.00/2,000		
SN74AHCT574DBR	296-4760-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.49	.40	.27
SN74AHCT574DBR	296-4760-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	270.00/2,000		
SN74AHCT574DGVR	296-4761-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.49	.40	.27
SN74AHCT574DGVR	296-4761-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	270.00/2,000		
SN74AHCT574DWR	296-4762-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74AHCT574DWR	296-4762-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	270.00/2,000		
SN74AHCT574N	296-4763-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
SN74AHCT574PWR	296-4764-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.49	.40	.27
SN74AHCT574PWR	296-4764-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	270.00/2,000		
SN74AHCT594D	296-4765-5-ND	8-Bit Shift Register w/Output Register	16-SOIC	.96	.72	.54
SN74AHCT594DBR	296-4766-1-ND	8-Bit Shift Register w/Output Register	16-SSOP	.96	.72	.54
SN74AHCT594DBR	296-4766-2-ND	8-Bit Shift Register w/Output Register	16-SSOP	638.00/2,000		
SN74AHCT594PWR	296-4767-1-ND	8-Bit Shift Register w/Output Register	16-TSSOP	.96	.72	.54
SN74AHCT594PWR	296-4767-2-ND	8-Bit Shift Register w/Output Register	16-TSSOP	638.00/2,000		
SN74AHCT595D	296-14308-5-ND	Tri-State 8-Bit Shift Register *NEW!*	16-SOIC	.96	.72	.54
SN74AHCT595DBR	296-13490-1-ND	Tri-State 8-Bit Shift Register	16-SSOP	.96	.72	.54
SN74AHCT595DBR	296-13490-2-ND	Tri-State 8-Bit Shift Register	16-SSOP	638.00/2,000		
SN74AHCT595PWR	296-9758-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.96	.72	.54
SN74AHCT595PWR	296-9758-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	638.00/2,000		
SN74AHCT16240DGGR	296-4681-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.45	1.16	.87
SN74AHCT16240DGGR	296-4681-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1508.00/2,000		
SN74AHCT16240DGVR	296-4682-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74AHCT16240DGVR	296-4682-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1542.00/2,000		
SN74AHCT16240DL	296-4683-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.45	1.16	.87
SN74AHCT16244DGGR	296-4684-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.45	1.16	.87
SN74AHCT16244DGGR	296-4684-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1508.00/2,000		
SN74AHCT16244DGVR	296-4685-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74AHCT16244DGVR	296-4685-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1508.00/2,000		
SN74AHCT16244DL	296-4686-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.45	1.16	.87
SN74AHCT16245DGGR	296-4687-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.45	1.16	.87
SN74AHCT16245DGGR	296-4687-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1508.00/2,000		
SN74AHCT16245DGVR	296-4688-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.45	1.16	.87
SN74AHCT16245DGVR	296-4688-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1508.00/2,000		
SN74AHCT16245DL	296-4689-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.45	1.16	.87
SN74AHCT16373DGGR	296-4690-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.45	1.16	.87
SN74AHCT16373DGGR	296-4690-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1508.00/2,000		
SN74AHCT16373DGVR	296-4691-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.45	1.16	.87
SN74AHCT16373DGVR	296-4691-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1508.00/2,000		
SN74AHCT16373DL	296-4692-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.45	1.16	.87
SN74AHCT16374DGGR	296-4693-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.45	1.16	.87
SN74AHCT16374DGGR	296-4693-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1508.00/2,000		
SN74AHCT16374DGVR	296-4694-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.45	1.16	.87
SN74AHCT16374DGVR	296-4694-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1508.00/2,000		
SN74AHCT16374DLR	296-4695-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.50	1.20	.90
SN74AHCT16374DLR	296-4695-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	780.00/1,000		
SN74AHCT16540DGGR	296-4696-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.45	1.16	.87
SN74AHCT16540DGGR	296-4696-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1508.00/2,000		
SN74AHCT16540DGVR	296-4697-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74AHCT16540DGVR	296-4697-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1508.00/2,000		
SN74AHCT16540DL	296-4698-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.45	1.16	.87
SN74AHCT16541DGGR	296-4699-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.45	1.16	.87
SN74AHCT16541DGGR	296-4699-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1508.00/2,000		
SN74AHCT16541DGVR	296-4700-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74AHCT16541DGVR	296-4700-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1508.00/2,000		
SN74AHCT16541DL	296-4701-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.45	1.16	.87

AHCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCU04D	296-9759-5-ND	Hex Inverter	14-SOP	.40	.32	.22
SN74AHCU04DBR	296-9760-1-ND	Hex Inverter	14-SSOP	.40	.32	.22
SN74AHCU04DBR	296-9760-2-ND	Hex Inverter	14-SSOP	190.00/2,000		
SN74AHCU04DGVR	296-9761-1-ND	Hex Inverter	14-TVSOP	.40	.32	.22
SN74AHCU04DGVR	296-9761-2-ND	Hex Inverter	14-TVSOP	190.00/2,000		
SN74AHCU04N	296-9762-5-ND	Hex Inverter	14-Dip	.40	.32	.22
SN74AHCU04PWR	296-9763-1-ND	Hex Inverter	14-TSSOP	.40	.32	.22
SN74AHCU04PWR	296-9763-2-ND	Hex Inverter	14-TSSOP	190.00/2,000		
SN74AHCU04RGYR	296-13916-1-ND	Hex Inverter *NEW!*	14-QFN	.39	.32	.22
SN74AHCU04RGYR	296-13916-2-ND	Hex Inverter *NEW!*	14-QFN	108.00/1,000		

Microgate Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHC1G00DBVR	296-1087-1-ND	Single 2-Input NAND Gate	SOT-23-5	.40	.32	.22
SN74AHC1G00DBVR	296-1087-2-ND	Single 2-Input NAND Gate	SOT-23-5	270.00/3,000		
SN74AHC1G00DCKR	296-8741-1-ND	Single 2-Input NAND Gate	SC70-5	.40	.32	.22
SN74AHC1G00DCKR	296-8741-2-ND	Single 2-Input NAND Gate	SC70-5	270.00/3,000		
SN74AHC1G02DBVR	296-1088-1-ND	Single 2-Input NOR Gate	SOT-23-5	.40	.32	.22
SN74AHC1G02DBVR	296-1088-2-ND	Single 2-Input NOR Gate	SOT-23-5	270.00/3,000		
SN74AHC1G02DCKR	296-8742-1-ND	Single 2-Input NOR Gate	SC70-5	.40	.32	.22
SN74AHC1G02DCKR	296-8742-2-ND	Single 2-Input NOR Gate	SC70-5	270.00/3,000		
SN74AHC1G04DBVR	296-1089-1-ND	Single Inverter Gate	SOT-23-5	.40	.32	.22
SN74AHC1G04DBVR	296-1089-2-ND	Single Inverter Gate	SOT-23-5	270.00/3,000		
SN74AHC1G04DCKR	296-1090-1-ND	Single Inverter Gate	SC70-5	.40	.32	.22
SN74AHC1G04DCKR	296-1090-2-ND	Single Inverter Gate	SC70-5	270.00/3,000		
SN74AHC1G08DBVR	296-1091-1-ND	Single 2-Input AND Gate	SOT-23-5	.40	.32	.22
SN74AHC1G08DBVR	296-1091-2-ND	Single 2-Input AND Gate	SOT-23-5	270.00/3,000		
SN74AHC1G08DCKR	296-8743-1-ND	Single 2-Input AND Gate	5-SOP	.40	.32	.22
SN74AHC1G08DCKR	296-8743-2-ND	Single 2-Input AND Gate	5-SOP	270.00/3,000		
SN74AHC1G14DBVR	296-1092-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.40	.32	.22
SN74AHC1G14DBVR	296-1092-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	270.00/3,000		
SN74AHC1G14DCKR	296-8748-1-ND	Single Schmitt-Trigger Inverter	SC70-5	.40	.32	.22
SN74AHC1G14DCKR	296-8748-2-ND	Single Schmitt-Trigger Inverter	SC70-5	270.00/3,000		
SN74AHC1G32DBVR	296-1093-1-ND	Single 2-Input OR Gate	SOT-23-5	.40	.32	.22
SN74AHC1G32DBVR	296-1093-2-ND	Single 2-Input OR Gate	SOT-23-5	270.00/3,000		
SN74AHC1G32DCKR	296-8749-1-ND	Single 2-Input OR Gate	SC70-5	.40	.32	.22
SN74AHC1G32DCKR	296-8749-2-ND	Single 2-Input OR Gate	SC70-5	270.00/3,000		
SN74AHC1G86DBVR	296-1094-1-ND	Single 2-Input Exclusive-OR Gate	SOT-23-5	.40	.32	.22
SN74AHC1G86DBVR	296-1094-2-ND	Single 2-Input Exclusive-OR Gate	SOT-23-5	270.00/3,000		
SN74AHC1G86DCKR	296-8750-1-ND	Single 2-Input Exclusive-OR Gate	SC70-5	.40	.32	.22
SN74AHC1G86DCKR	296-8750-2-ND	Single 2-Input Exclusive-OR Gate	SC70-5	270.00/3,000		
SN74AHC1G125DBVR	296-8744-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.40	.32	.22
SN74AHC1G125DBVR	296-8744-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	270.00/3,000		
SN74AHC1G125DCKR	296-8745-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.40	.32	.22
SN74AHC1G125DCKR	296-8745-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	270.00/3,000		
SN74AHC1G126DBVR	296-8746-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.40	.32	.22
SN74AHC1G126DBVR	296-8746-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	270.00/3,000		
SN74AHC1G126DCKR	296-8747-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.40	.32	.22
SN74AHC1G126DCKR	296-8747-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	270.00/3,000		
SN74AHC1GU04DBVR	296-1095-1-ND	Single Inverter Gate	SOT-23-5	.40	.32	.22
SN74AHC1GU04DBVR	296-1095-2-ND	Single Inverter Gate	SOT-23-5	270.00/3,000		
SN74AHC1GU04DCKR	296-8751-1-ND	Single Inverter Gate	SC70-5	.40	.32	.22
SN74AHC1GU04DCKR	296-8751-2-ND	Single Inverter Gate	SC70-5	270.00/3,000		
SN74AHCT1G00DBVR	296-1111-1-ND	Single 2-Input NAND Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G00DBVR	296-1111-2-ND	Single 2-Input NAND Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G00DCKR	296-4703-1-ND	Single 2-Input NAND Gate	5-SOT	.40	.32	.22
SN74AHCT1G00DCKR	296-4703-2-ND	Single 2-Input NAND Gate	5-SOT	270.00/3,000		
SN74AHCT1G02DBVR	296-4704-1-ND	Single 2-Input NOR Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G02DBVR	296-4704-2-ND	Single 2-Input NOR Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G02DCKR	296-4705-1-ND	Single 2-Input NOR Gate	5-SOT	.40	.32	.22
SN74AHCT1G02DCKR	296-4705-2-ND	Single 2-Input NOR Gate	5-SOT	270.00/3,000		
SN74AHCT1G04DBVR	296-1112-1-ND	Single Inverter Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G04DBVR	296-1112-2-ND	Single Inverter Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G04DCKR	296-4706-1-ND	Single Inverter Gate	5-SOT	.40	.32	.22
SN74AHCT1G04DCKR	296-4706-2-ND	Single Inverter Gate	5-SOT	270.00/3,000		
SN74AHCT1G08DBVR	296-1113-1-ND	Single 2-Input AND Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G08DBVR	296-1113-2-ND	Single 2-Input AND Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G08DCKR	296-4707-1-ND	Single 2-Input AND Gate	5-SOT	.40	.32	.22
SN74AHCT1G08DCKR	296-4707-2-ND	Single 2-Input AND Gate	5-SOT	270.00/3,000		
SN74AHCT1G14DBVR	296-1114-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.40	.32	.22
SN74AHCT1G14DBVR	296-1114-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	270.00/3,000		
SN74AHCT1G14DCKR	296-4712-1-ND	Single Schmitt-Trigger Inverter Gate	5-SOT	.40	.32	.22
SN74AHCT1G14DCKR	296-4712-2-ND	Single Schmitt-Trigger Inverter Gate	5-SOT	270.00/3,000		
SN74AHCT1G32DBVR	296-1115-1-ND	Single 2-Input OR Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G32DBVR	296-1115-2-ND	Single 2-Input OR Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G32DCKR	296-4713-1-ND	Single 2-Input OR Gate	5-SOT	.40	.32	.22
SN74AHCT1G32DCKR	296-4713-2-ND	Single 2-Input OR Gate	5-SOT	270.00/3,000		
SN74AHCT1G86DBVR	296-4714-1-ND	Single 2-Input EX-OR Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G86DBVR	296-4714-2-ND	Single 2-Input EX-OR Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G86DCKR	296-4715-1-ND	Single 2-Input EX-OR Gate	5-SOT	.40	.32	.22
SN74AHCT1G86DCKR	296-4715-2-ND	Single 2-Input EX-OR Gate	5-SOT	270.00/3,000		
SN74AHCT1G125DBVR	296-4708-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G125DBVR	296-4708-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G125DCKR	296-4709-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.40	.32	.22
SN74AHCT1G125DCKR	296-4709-2-ND	Tri-State Single Bus Buffer Gate	5-SOT	270.00/3,000		
SN74AHCT1G126DBVR	296-4710-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G126DBVR	296-4710-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G126DCKR	296-4711-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.40	.32	.22
SN74AHCT1G126DCKR	296-4711-2-ND	Tri-State Single Bus Buffer Gate	5-SOT	270.00/3,000		

ALB Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALB16244DGGR	296-9764-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	5.06	4.05	3.15
SN74ALB16244DGGR	296-9764-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	5738.00/2,000		
SN74ALB16244DGVR	296-9765-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	5.06	4.05	3.15
SN74ALB16244DGVR	296-9765-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	5738.00/2,000		
SN74ALB16244DL	296-9766-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	5.06	4.05	3.15

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALB16244DLR	296-9766-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	5.11	4.09	3.18
SN74ALB16244DLR	296-9766-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2894.00/1,000		
SN74ALB16245DGGR	296-9767-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5.06	4.05	3.15
SN74ALB16245DGGR	296-9767-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5738.00/2,000		
SN74ALB16245DGVR	296-9768-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	5.06	4.05	3.15
SN74ALB16245DGVR	296-9768-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	5738.00/2,000		
SN74ALB16245DL	296-9769-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.06	4.05	3.15
SN74ALB16245DLR	296-9769-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.11	4.09	3.18
SN74ALB16245DLR	296-9769-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2894.00/1,000		

ALS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65ALS176D	296-9698-5-ND	Differential Bus Transceiver	8-SOP	2.95	2.36	1.84
SN65ALS176DR	296-14637-1-ND	Differential Bus Transceiver *NEW!*	8-SOIC	2.95	2.36	1.84
SN65ALS176DR	296-14637-2-ND	Differential Bus Transceiver *NEW!*	8-SOIC	4127.50/2,500		
SN65ALS180DR	296-14638-1-ND	Diff. Driver and Receiver Pair *NEW!*	14-SOIC	3.04	2.43	1.89
SN65ALS180DR	296-14638-2-ND	Diff. Driver and Receiver Pair *NEW!*	14-SOIC	4252.50/2,500		
SN65ALS1176DR	296-9697-1-ND	Differential Bus Transceiver	8-SOP	3.94	3.15	2.45
SN65ALS1176DR	296-9697-2-ND	Differential Bus Transceiver	8-SOP	5512.50/2,500		
SN74ALS00AD	296-1477-5-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.40	.27
SN74ALS00AN	296-1478-5-ND	Quad 2-Input NAND Gate	14-Dip	.49	.40	.27
SN74ALS00ANSR	296-5001-2-ND	Quad 2-Input NAND Gate	14-SOP	288.00/2,000		
SN74ALS02ADR	296-14705-1-ND	Quad 2-Input NOR Gate *NEW!*	14-SOIC	.49	.40	.27
SN74ALS02ADR	296-14705-2-ND	Quad 2-Input NOR Gate *NEW!*	14-SOIC	320.00/2,500		
SN74ALS02AN	296-1479-5-ND	Quad 2-Input NOR Gate	14-Dip	.49	.40	.27
SN74ALS04BD	296-1122-5-ND	Hex Inverter	14-SOIC	.49	.40	.27
SN74ALS04BDR	296-1122-1-ND	Hex Inverter	14-SOIC	.49	.40	.27
SN74ALS04BDR	296-1122-2-ND	Hex Inverter	14-SOIC	320.00/2,500		
SN74ALS04BN	296-1481-5-ND	Hex Inverter	14-Dip	.49	.40	.27
SN74ALS05ADR	296-14707-1-ND	Hex Inverter *NEW!*	14-SOIC	.49	.40	.27
SN74ALS05ADR	296-14707-2-ND	Hex Inverter *NEW!*	14-SOIC	320.00/2,500		
SN74ALS05AN	296-1482-5-ND	Hex Inverter with OC	14-Dip	.49	.40	.27
SN74ALS08D	296-1123-5-ND	Quad 2-Input AND Gate	14-SOIC	.49	.40	.27
SN74ALS08DR	296-1123-1-ND	Quad 2-Input AND Gate	14-SOIC	.49	.40	.27
SN74ALS08DR	296-1123-2-ND	Quad 2-Input AND Gate	14-SOIC	320.00/2,500		
SN74ALS08N	296-1484-5-ND	Quad 2-Input AND Gate	14-Dip	.49	.40	.27
SN74ALS10ADR	296-14712-1-ND	Triple 3-Input NAND Gate *NEW!*	14-SOIC	.49	.40	.27
SN74ALS10ADR	296-14712-2-ND	Triple 3-Input NAND Gate *NEW!*	14-SOIC	320.00/2,500		
SN74ALS11ADR	296-14713-1-ND	Triple 3-Input AND Gate *NEW!*	14-SOIC	.64	.48	.36
SN74ALS11ADR	296-14713-2-ND	Triple 3-Input AND Gate *NEW!*	14-SOIC	520.00/2,500		
SN74ALS21ADR	296-5045-1-ND	Dual 4-Input AND Gate *NEW!*	14-SOIC	.64	.48	.36
SN74ALS21ADR	296-5045-2-ND	Dual 4-Input AND Gate	14-SOIC	520.00/2,500		
SN74ALS27ADR	296-14731-1-ND	Triple 3-Input NOR Gate *NEW!*	14-SOIC	.88	.66	.50
SN74ALS27ADR	296-14731-2-ND	Triple 3-Input NOR Gate *NEW!*	14-SOIC	715.00/2,500		
SN74ALS30AN	296-1494-5-ND	8-Input NAND Gate	14-Dip	.49	.40	.27
SN74ALS32DR	296-1127-1-ND	Quad 2-Input OR Gate	14-SOIC	.49	.40	.27
SN74ALS32DR	296-1127-2-ND	Quad 2-Input OR Gate	14-SOIC	320.00/2,500		
SN74ALS32N	296-1495-5-ND	Quad 2-Input OR Gate	14-Dip	.49	.40	.27
SN74ALS38BDR	296-14738-1-ND	Quad 2-Input NAND Buffer *NEW!*	14-SOIC	.45	.36	.27
SN74ALS38BDR	296-14738-2-ND	Quad 2-Input NAND Buffer *NEW!*	14-SOIC	305.00/2,500		
SN74ALS74AD	296-1130-5-ND	Dual D-Type Flip-Flop	14-SOIC	.49	.40	.27
SN74ALS74ADR	296-1130-1-ND	Dual D-Type Flip-Flop	14-SOIC	.49	.40	.27
SN74ALS74ADR	296-1130-2-ND	Dual D-Type Flip-Flop	14-SOIC	320.00/2,500		
SN74ALS74AN	296-1506-5-ND	Dual D-Type Flip-Flop	14-Dip	.49	.40	.27
SN74ALS86DR	296-14751-1-ND	Quad 2-In. Exclusive OR Gate *NEW!*	14-SOIC	.49	.40	.27
SN74ALS86DR	296-14751-2-ND	Quad 2-In. Exclusive OR Gate *NEW!*	14-SOIC	320.00/2,500		
SN74ALS109AN	296-14711-5-ND	Dual J-K Flip-Flop *NEW!*	16-Dip	.56	.42	.32
SN74ALS138ADR	296-14714-1-ND	3-8 Line Decoder/Demux *NEW!*	16-SOIC	.56	.42	.32
SN74ALS138ADR	296-14714-2-ND	3-8 Line Decoder/Demux *NEW!*	16-SOIC	455.00/2,500		
SN74ALS138AN	296-1485-5-ND	3-8 Line Decoder/Demux	16-Dip	.56	.42	.32
SN74ALS139DR	296-14715-1-ND	Dual 2-4 Decoder/Demux *NEW!*	16-SOIC	.72	.54	.41
SN74ALS139DR	296-14715-2-ND	Dual 2-4 Decoder/Demux *NEW!*	16-SOIC	585.00/2,500		
SN74ALS139N	296-1486-5-ND	Dual 2-4 Decoder/Demux	16-Dip	.72	.54	.41
SN74ALS151DR	296-14717-1-ND	1-of-8 Data Selector/Mux *NEW!*	16-SOIC	.60	.45	.34
SN74ALS151DR	296-14717-2-ND	1-of-8 Data Selector/Mux *NEW!*	16-SOIC	487.50/2,500		
SN74ALS157ADR	296-14718-1-ND	Quad 1-of-2 Data Selector/Mux *NEW!*	16-SOIC	.60	.45	.34
SN74ALS157ADR	296-14718-2-ND	Quad 1-of-2 Data Selector/Mux *NEW!*	16-SOIC	487.50/2,500		
SN74ALS157AN	296-14719-5-ND	Quad 1-of-2 Data Selector/Mux *NEW!*	16-Dip	.60	.45	.34
SN74ALS158NSR	296-13147-1-ND	Quad 1-of-2 Data Selector/Mux	16-SOP	1.90	1.52	1.14
SN74ALS158NSR	296-13147-2-ND	Quad 1-of-2 Data Selector/Mux	16-SOP	1976.00/2,000		
SN74ALS161BN	296-1487-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.60	.45	.34
SN74ALS163BN	296-1488-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.80	.60	.45
SN74ALS166DBR	296-5027-1-ND	8-Bit Parallel-Load Shift Register	16-SSOP	2.81	2.25	1.75
SN74ALS166DBR	296-5027-2-ND	8-Bit Parallel-Load Shift Register	16-SSOP	3188.00/2,000		
SN74ALS169BNSR	296-13148-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	.96	.72	.54
SN74ALS169BNSR	296-13148-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	638.00/2,000		
SN74ALS175DR	296-14721-1-ND	Quad D-Type Flip-Flop *NEW!*	16-SOIC	.64	.48	.36
SN74ALS175DR	296-14721-2-ND	Quad D-Type Flip-Flop *NEW!*	16-SOIC	520.00/2,500		
SN74ALS193AN	296-14722-5-ND	4-Bit Sync. Binary Counter *NEW!*	16-Dip	1.35	1.13	.90
SN74ALS240ADWR	296-14724-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	.48	.36	.27
SN74ALS240ADWR	296-14724-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	320.00/2,000		
SN74ALS240AN	296-14725-5-ND	Tri-State Octal Buffer/Driver *NEW!*	20-Dip	.48	.36	.27
SN74ALS243ANSR	296-13149-1-ND	Tri-State Quad Bus Transceiver	14-SOP	3.31	2.65	2.06
SN74ALS243ANSR	296-13149-2-ND	Tri-State Quad Bus Transceiver	14-SOP	3748.00/2,000		
SN74ALS244CDW	296-1124-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.48	.36	.27
SN74ALS244CDWR	296-1124-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.48	.36	.27
SN74ALS244CDWR	296-1124-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	320.00/2,000		
SN74ALS244CN	296-1490-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.48	.36	.27
SN74ALS245ADW	296-1125-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.48	.36	.27
SN74ALS245ADWR	296-1125-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.36	.27
SN74ALS245ADWR	296-1125-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	320.00/2,000		
SN74ALS245AN	296-1492-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.48	.36	.27
SN74ALS257ADR	296-14728-1-ND	Tri-State Quad 2-1 Line Mux *NEW!*	16-SOIC	.60	.45	.34
SN74ALS257ADR	296-14728-2-ND	Tri-State Quad 2-1 Line Mux *NEW!*	16-SOIC	487.50/2,500		
SN74ALS259DR	296-14729-1-ND	8-Bit Addressable Latch *NEW!*	16-SOIC	1.93	1.54	1.16
SN74ALS259DR	296-14729-2-ND	8-Bit Addressable Latch *NEW!*	16-SOIC	2465.00/2,500		
SN74ALS273N	296-1493-5-ND	Octal D-Type Flip-Flop with Clear	20-SOP	.96	.72	.54
SN74ALS299NSR	296-13150-1-ND	Tri-State 8-Bit, Universal Shift/ Storage Register	20-SOP	2.70	2.16	1.68
SN74ALS299NSR	296-13150-2-ND	Tri-State 8-Bit, Universal Shift/ Storage Register	20-SOP	3060.00/2,000		
SN74ALS373ADWR	296-14735-1-ND	Tri-State Octal Transparent D-Type Latch *NEW!*	20-SOIC	.48	.36	.27
SN74ALS373ADWR	296-14735-2-ND	Tri-State Octal Transparent D-Type Latch *NEW!*	20-SOIC	320.00/2,000		
SN74ALS374ADWR	296-1128-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74ALS374ADWR	296-1128-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	320.00/2,000		
SN74ALS374AN	296-1498-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74ALS520N	296-14739-5-ND	8-Bit Identity Comparator *NEW!*	20-Dip	1.35	1.13	.90
SN74ALS521NSR	296-13151-1-ND	8-Bit Identity Comparator	20-SOP	1.05	.88	.70
SN74ALS521NSR	296-13151-2-ND	8-Bit Identity Comparator	20-SOP	932.00/2,000		
SN74ALS534ADWR	296-14740-1-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-SOIC	1.88	1.50	1.13
SN74ALS534ADWR	296-14740-2-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-SOIC	1950.00/2,000		
SN74ALS540DWR	296-14741-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	1.70	1.36	1.02
SN74ALS540DWR	296-14741-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-SOIC	1768.00/2,000		
SN74ALS540-1NSR	296-13152-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	5.27	4.22	3.28
SN74ALS540-1NSR	296-13152-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	5968.00/2,000		
SN74ALS541DW	296-1499-5-ND	Tri-St. Octal Buffer/Line Driver	20-SOIC	.90	.75	.60
SN74ALS541DWR	296-14742-1-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	.90	.75	.60
SN74ALS541DWR	296-14742-2-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	798.00/2,000		
SN74ALS541N	296-1500-5-ND	Tri-St. Octal Buffer/Line Driver	20-Dip	.90	.75	.60
SN74ALS541NSR	296-13153-1-ND	Tri-St. Octal Buffer/Line Driver	20-SOP	.90	.75	.60
SN74ALS541NSR	296-13153-2-ND	Tri-St. Octal Buffer/Line Driver	20-SOP	798.00/2,000		
SN74ALS573CDW	296-1129-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.48	.36	.27
SN74ALS573CDWR	296-1129-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.48	.36	.27
SN74ALS573CDWR	296-1129-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	320.00/2,000		
SN74ALS573CN	296-1502-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.48	.36	.27
SN74ALS574BDW	296-1503-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74ALS574BDWR	296-14745-1-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-SOIC	.48	.36	.27
SN74ALS574BDWR	296-14745-2-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-SOIC	320.00/2,000		
SN74ALS574BN	296-1504-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74ALS580BNSR	296-13154-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	2.13	1.70	1.28
SN74ALS580BNSR	296-13154-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	2210.00/2,000		
SN74ALS639AN	296-5068-5-ND	Octal Bus Transceiver	20-Dip	2.93	2.34	1.82
SN74ALS652ANT	296-14747-5-ND	Tri-State Octal Bus Transceiver *NEW!*	24-Dip	4.05	3.24	2.52
SN74ALS688N	296-14748-5-ND	8-Bit Identity Comparator *NEW!*	20-Dip	3.60	2.88	2.24
SN74ALS874BNT	296-14752-5-ND	Dual 4-Bit D-Type Flip-Flop *NEW!*	24-Dip	2.48	1.98	1.49
SN74ALS996NT	296-1507-5-ND	8-Bit READ-BACK Latch	24-Dip	8.00	6.40	5.40
SN74ALS1005DR	296-14709-1-ND	Hex Inverting Buffer *NEW!*	14-SOIC	.80	.60	.45
SN74ALS1005DR	296-14709-2-ND	Hex Inverting Buffer *NEW!*	14-SOIC	650.00/2,500		
SN74ALS1005NSR	296-13146-1-ND	Hex Inverting Buffer with Open Collector Outputs	14-SOP	.80	.60	.45
SN74ALS1005NSR	296-13146-2-ND	Hex Inverting Buffer with Open Collector Outputs	14-SOP	532.00/2,000		
SN74ALS1034D	296-5007-5-ND	Hex Non-Inverting Driver	14-SOIC	1.25	1.00	.75
SN74ALS1035DR	296-14710-1-ND	Hex Non-Inverting Buffer *NEW!*	14-SOIC	.80	.60	.45
SN74ALS1035DR	296-14710-2-ND	Hex Non-Inverting Buffer *NEW!*	14-SOIC	650.00/2,500		
SN74ALS29827NT	296-14732-5-ND	Tri-State 10-Bit Buffer *NEW!*	24-Dip	3.62	2.90	2.26
SN75ALS057DW	296-12931-5-ND	Quad Interface Bus Transceiver	20-SOIC	3.15	2.52	1.96
SN75ALS057DWR	296-12932-1-ND	Quad Interface Bus Transceiver	20-SOIC	3.15	2.52	1.96
SN75ALS057DWR	296-12932-2-ND	Quad Interface Bus Transceiver	20-SOIC	3570.00/2,000		
SN75ALS057N	296-9927-5-ND	Quad Interface Bus Transceiver	20-Dip	3.15	2.52	1.96
SN75ALS085DW	296-12933-5-ND	Dual Channel Driver/Receiver	24-SOIC	9.00	7.20	6.08
SN75ALS085NT	296-9928-5-ND	Dual Channel Driver/Receiver	24-Dip	9.00	7.20	6.08
SN75ALS160DW	296-9932-5-ND	Octal Bus Transceiver	20-SOP	3.04	2.43	1.89
SN75ALS161N	296-9933-5-ND	Octal Bus Transceiver	20-Dip	3.83	3.06	2.38
SN75ALS162DW	296-9934-5-ND	Octal Bus Transceiver	24-SOP	4.28	3.42	2.66
SN75ALS163DWR	296-9935-1-ND	Octal Interface Bus Transceiver *NEW!*	20-SOP	5.30	4.24	3.58
SN75ALS163DWR	296-9935-2-ND	Octal Interface Bus Transceiver *NEW!*	20-SOP	6626.00/2,000		
SN75ALS170ADW	296-9936-5-ND	Triple Differential Bus Transceiver	20-SOP	5.30	4.24	3.58
SN75ALS171ADW	296-9937-5-ND	Triple Differential Bus Transceiver	20-SOP	5.04	4.04	3.41
SN75ALS171DWR	296-9938-1-ND	Triple Differential Bus Transceiver	20-SOP	6.00	4.80	4.05
SN75ALS171DWR	296-9938-2-ND	Triple Differential Bus Transceiver	20-SOP	7500.00/2,000		
SN75ALS172ADW	296-9939-5-ND	Quad Differential Bus Line Driver	20-SOP	3.26	2.61	2.03
SN75ALS172AN	296-9940-5-ND	Quad Differential Bus Line Driver	16-Dip	3.26	2.61	2.03
SN75ALS173N	296-9951-5-ND	Quad Differential Line Receiver	16-Dip	3.26	2.61	2.03
SN75ALS174AN	296-9952-5-ND	Quad Differential Line Driver	16-Dip	2.86	2.29	1.78
SN75ALS175N	296-9953-5-ND	Quad Differential Line Receiver	16-Dip	2.86	2.29	1.78
SN75ALS175NSR	296-9954-1-ND	Quad Differential Line Receiver	16-SOP	2.86	2.29	1.78
SN75ALS175NSR	296-9954-2-ND	Quad Differential Line Receiver	16-SOP	3238.00/2,000		
SN75ALS176AD	296-9955-5-ND	Differential Bus Transceiver	8-SOIC	2.25	1.80	1.35
SN75ALS176BD	296-9956-5-ND	Differential Bus Transceiver	8-SOIC	1.48	1.18	.89
SN75ALS176BP	296-9957-5-ND	Differential Bus Transceiver	8-Dip	1.48	1.18	.89
SN75ALS176D	296-9958-5-ND	Differential Bus Transceiver	8-SOIC	1.25	1.00	.75
SN75ALS176P	296-9959-5-ND	Differential Bus Transceiver	8-Dip	1.25	1.00	.75
SN75ALS180D	296-9960-5-ND	Differential Driver/Receiver Pairs	14-SOIC	2.39	1.91	1.49
SN75ALS180N	296-9961-5-ND	Differential Driver/Receiver Pairs	14-Dip	2.39	1.91	1.49
SN75ALS181N	296-9962-5-ND	Differential Driver/Receiver Pairs	14-Dip	2.25	1.80	1.35
SN75ALS181NSR	296-9963-1-ND	Differential Driver/Receiver Pairs	14-SOP	2.25	1.80	1.35
SN75ALS181NSR	296-9963-2-ND	Differential Driver/Receiver Pairs	14-SOP	2340.00/2,000		
SN75ALS191D	296-9964-5-ND	Dual Differential Line Driver	8-SOIC	1.40	1.12	.84
SN75ALS191P	296-9965-5-ND	Dual Differential Line Driver	8-Dip	1.40	1.12	.84
SN75ALS191PSR	296-13318-1-ND	Dual Differential Line Driver	8-SOP	1.40	1.12	.84
SN75ALS191PSR	296-13318-2-ND	Dual Differential Line Driver	8-SOP	1456.00/2,000		
SN75ALS192D	296-9966-5-ND	Quad Differential Line Driver	16-SOIC	.84	.70	.56
SN75ALS193D	296-9967-5-ND	Quad Differential Line Receiver	16-SOIC	1.47	1.23	.98
SN75ALS193N	296-9968-5-ND	Quad Differential Line Receiver	16-Dip	1.47	1.23	.98
SN75ALS194N	296-9969-5-ND	Quad Differential Line Driver	16-Dip	1.60	1.28	.96
SN75ALS195N	296-9970-5-ND	Quad Differential Line Receiver	16-Dip	1.88	1.50	1.13
SN75ALS197D	296-9971-5-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
SN75ALS197N	296-9972-5-ND	Quad Differential Line Receiver	16-Dip	1.20	1.00	.80
SN75ALS197NSR	296-13319-1-ND	Tri-State Quad Differential Line Receiver	16-SOP	1.20	1.00	.80
SN75ALS197NSR	296-13319-2-ND	Tri-State Quad Differential Line Receiver	16-SOP	1064.00/2,000		
SN75ALS199D	296-9973-5-ND	Quad Differential Line Receiver	16-SOIC	1.70	1.36	1.02
SN74ALS641A-1DW	296-9770-5-ND	Octal Bus Transceiver with OC Output	20-SOP	2.81	2.25	1.75
SN74ALS641ADW	296-9771-5-ND	Octal Bus Transceiver with OC Output	20-SOP	2.25	1.80	1.40
SN75ALS1177N	296-9929-5-ND	Tri-State Dual Diff. Driver/Receiver	16-Dip	4.05	3.24	2.52
SN75ALS1177NSR	296-9930-1-ND	Tri-State Dual Diff. Driver/Receiver	16-SOP	4.05	3.24	2.52
SN75ALS1177NSR	296-9930-2-ND	Tri-State Dual Diff. Driver/Receiver	16-SOP	4590.00/2,000		
SN75ALS1178N	296-9931-5-ND	Tri-State Dual Diff. Driver/Receiver	16-Dip	4.05	3.24	2.52
SN75ALS1178NSR	296-12185-1-ND	Tri-State Dual Diff. Driver/Receiver	16-SOP	4.05	3.24	2.52
SN75ALS1178NSR	296-12185-2-ND	Tri-State Dual Diff. Driver/Receiver	16-SOP	4590.00/2,000		

ALVC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVC00DGVR	296-5100-1-ND	Quad 2-Input NAND Gate	14-TVSOP	.46	.37	.26
SN74ALVC00DGVR	296-5100-2-ND	Quad 2-Input NAND Gate	14-TVSOP	252.00/2,000		
SN74ALVC00DR	296-5101-1-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74ALVC00DR	296-5101-2-ND	Quad 2-Input NAND Gate	14-SOIC	297.50/2,500		
SN74ALVC00NSR	296-5103-1-ND	Quad 2-Input NAND Gate	14-SOP	.46	.37	.26

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVC00NSR	296-5103-2-ND	Quad 2-Input NAND Gate	14-SOP	252.00/2,000		
SN74ALVC00PWR	296-5104-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74ALVC00PWR	296-5104-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ALVC04D	296-1508-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74ALVC04DGVR	296-5105-1-ND	Hex Inverter	14-TVSOP	.46	.37	.26
SN74ALVC04DGVR	296-5105-2-ND	Hex Inverter	14-TVSOP	252.00/2,000		
SN74ALVC04PWR	296-5106-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74ALVC04PWR	296-5106-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74ALVC04RGYR	296-13917-1-ND	Hex Inverter *NEW!*	14-QFN	.40	.32	.24
SN74ALVC04RGYR	296-13917-2-ND	Hex Inverter *NEW!*	14-QFN	112.00/1,000		
SN74ALVC08DGVR	296-5107-1-ND	Quad 2-Input AND Gate	14-TVSOP	.46	.37	.26
SN74ALVC08DGVR	296-5107-2-ND	Quad 2-Input AND Gate	14-TVSOP	252.00/2,000		
SN74ALVC08DR	296-5108-1-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74ALVC08DR	296-5108-2-ND	Quad 2-Input AND Gate	14-SOIC	297.50/2,500		
SN74ALVC08PWR	296-5109-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
SN74ALVC08PWR	296-5109-2-ND	Quad 2-Input AND Gate	14-TSSOP	252.00/2,000		
SN74ALVC08RGYR	296-13918-1-ND	Quad 2-Input AND Gate *NEW!*	14-QFN	.40	.32	.24
SN74ALVC08RGYR	296-13918-2-ND	Quad 2-Input AND Gate *NEW!*	14-QFN	112.00/1,000		
SN74ALVC10D	296-1509-5-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74ALVC10DR	296-1509-1-ND	Triple 3-Input NAND Gate	14-SOIC	.81	.68	.54
SN74ALVC10DR	296-1509-2-ND	Triple 3-Input NAND Gate	14-SOIC	877.50/2,500		
SN74ALVC10DGVR	296-5110-1-ND	Triple 3-Input NAND Gate	14-TVSOP	.46	.37	.26
SN74ALVC10DGVR	296-5110-2-ND	Triple 3-Input NAND Gate	14-TVSOP	252.00/2,000		
SN74ALVC10NSR	296-5111-1-ND	Triple 3-Input NAND Gate	14-SOP	.46	.37	.26
SN74ALVC10NSR	296-5111-2-ND	Triple 3-Input NAND Gate	14-SOP	252.00/2,000		
SN74ALVC10PWR	296-5112-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74ALVC10PWR	296-5112-2-ND	Triple 3-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ALVC14DGVR	296-5119-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.46	.37	.26
SN74ALVC14DGVR	296-5119-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	252.00/2,000		
SN74ALVC14DR	296-5120-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74ALVC14DR	296-5120-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	297.50/2,500		
SN74ALVC14PWR	296-5121-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	.26
SN74ALVC14PWR	296-5121-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74ALVC32DGVR	296-5139-1-ND	Quad 2-Input OR Gate	14-TVSOP	.46	.37	.26
SN74ALVC32DGVR	296-5139-2-ND	Quad 2-Input OR Gate	14-TVSOP	252.00/2,000		
SN74ALVC32DR	296-5140-1-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
SN74ALVC32DR	296-5140-2-ND	Quad 2-Input OR Gate	14-SOIC	297.50/2,500		
SN74ALVC32NSR	296-5141-1-ND	Quad 2-Input OR Gate	14-SOP	.46	.37	.26
SN74ALVC32NSR	296-5141-2-ND	Quad 2-Input OR Gate	14-SOP	252.00/2,000		
SN74ALVC32PWR	296-5142-1-ND	Quad 2-Input OR Gate	14-TSSOP	.46	.37	.26
SN74ALVC32PWR	296-5142-2-ND	Quad 2-Input OR Gate	14-TSSOP	252.00/2,000		
SN74ALVC125D	296-1510-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC125DR	296-1510-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC125DR	296-1510-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	422.50/2,500		
SN74ALVC125DGVR	296-5113-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.52	.39	.30
SN74ALVC125DGVR	296-5113-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	346.00/2,000		
SN74ALVC125NSR	296-5114-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.52	.39	.30
SN74ALVC125NSR	296-5114-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	346.00/2,000		
SN74ALVC125PWR	296-5115-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74ALVC125PWR	296-5115-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	346.00/2,000		
SN74ALVC126DGVR	296-5116-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.52	.39	.30
SN74ALVC126DGVR	296-5116-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	346.00/2,000		
SN74ALVC126DR	296-5117-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC126DR	296-5117-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	422.50/2,500		
SN74ALVC126NSR	296-12859-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.52	.39	.30
SN74ALVC126NSR	296-12859-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	346.00/2,000		
SN74ALVC126PWR	296-5118-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74ALVC126PWR	296-5118-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	346.00/2,000		
SN74ALVC244DGVR	296-12862-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.54	.41	.31
SN74ALVC244DGVR	296-12862-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	360.00/2,000		
SN74ALVC244DWR	296-5135-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.54	.41	.31
SN74ALVC244DWR	296-5135-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	360.00/2,000		
SN74ALVC244NSR	296-12863-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.56	.42	.32
SN74ALVC244NSR	296-12863-2-ND	Tri-State Octal Buffer/Driver	20-SOP	372.00/2,000		
SN74ALVC245DGVR	296-5137-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.54	.41	.31
SN74ALVC245DGVR	296-5137-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	360.00/2,000		
SN74ALVC245DWR	296-5138-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.54	.41	.31
SN74ALVC245DWR	296-5138-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	360.00/2,000		
SN74ALVC245PWR	296-9774-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.54	.41	.31
SN74ALVC245PWR	296-9774-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	360.00/2,000		
SN74ALVC16244ADGGR	296-5123-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.05	.88	.70
SN74ALVC16244ADGGR	296-5123-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	932.00/2,000		
SN74ALVC16244ADL	296-5124-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.05	.88	.70
SN74ALVC16244AGQLR	296-9772-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1.20	1.00	.80
SN74ALVC16244AGQLR	296-9772-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	532.00/1,000		
SN74ALVC16334DGGR	296-1134-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	1.25	1.00	.75
SN74ALVC16334DGGR	296-1134-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	1300.00/2,000		
SN74ALVC16334DGVR	296-5130-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	1.25	1.00	.75
SN74ALVC16334DGVR	296-5130-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	1300.00/2,000		
SN74ALVC16334DL	296-1515-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	1.25	1.00	.75
SN74ALVC16834DGGR	296-1136-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVC16834DGGR	296-1136-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	4208.00/2,000		
SN74ALVC16834DGVR	296-12860-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	3.71	2.97	2.31
SN74ALVC16834DGVR	296-12860-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	4208.00/2,000		
SN74ALVC16834DL	296-1516-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	3.71	2.97	2.31
SN74ALVC16834GQLR	296-5132-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVFBGA	4.10	3.28	2.55
SN74ALVC16834GQLR	296-5132-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVFBGA	2321.00/1,000		
SN74ALVC16835DGGR	296-1137-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.00	1.60	1.20
SN74ALVC16835DGGR	296-1137-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2080.00/2,000		
SN74ALVC16835DGVR	296-5133-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.00	1.60	1.20
SN74ALVC16835DGVR	296-5133-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2080.00/2,000		
SN74ALVC16835DL	296-5134-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.00	1.60	1.20
SN74ALVC162334DGGR	296-1131-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	3.71	2.97	2.31
SN74ALVC162334DGGR	296-1131-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	4208.00/2,000		
SN74ALVC162334DGVR	296-5122-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	3.71	2.97	2.31
SN74ALVC162334DGVR	296-5122-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	4208.00/2,000		
SN74ALVC162334DL	296-1511-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVC162334DLR	296-1511-1-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVC162334DLR	296-1511-2-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	2104.00/1,000		
SN74ALVC162831DBBR	296-5125-1-ND	Tri-St. 1-4 Bit Address Register/Driver	80-TVSOP	5.80	4.64	3.92
SN74ALVC162831DBBR	296-5125-2-ND	Tri-St. 1-4 Bit Address Register/Driver	80-TVSOP	7250.00/2,000		
SN74ALVC162834DL	296-1512-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.81	2.25	1.75
SN74ALVC162834DLR	296-1512-1-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.81	2.25	1.75
SN74ALVC162834DLR	296-1512-2-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1594.00/1,000		
SN74ALVC162834GR	296-5126-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.81	2.25	1.75
SN74ALVC162834GR	296-5126-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3188.00/2,000		
SN74ALVC162834VR	296-5127-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.81	2.25	1.75
SN74ALVC162834VR	296-5127-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	3188.00/2,000		
SN74ALVC162835DGGR	296-1132-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1.38	1.10	.83
SN74ALVC162835DGGR	296-1132-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1430.00/2,000		
SN74ALVC162835DGVR	296-5128-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1.38	1.10	.83
SN74ALVC162835DGVR	296-5128-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1430.00/2,000		
SN74ALVC162835DL	296-1513-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1.38	1.10	.83
SN74ALVC162836DGGR	296-1133-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVC162836DGGR	296-1133-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	4208.00/2,000		
SN74ALVC162836DGVR	296-5129-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	3.71	2.97	2.31
SN74ALVC162836DGVR	296-5129-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	4208.00/2,000		
SN74ALVC162836DL	296-1514-5-ND	Tri-State 20-Bit Universal Bus Driver	56-SSOP	3.71	2.97	2.31
SN74ALVC164245DGGR	296-1135-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-TSSOP	1.35	1.13	.90
SN74ALVC164245DGGR	296-1135-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	1198.00/2,000		
SN74ALVC164245DL	296-5131-5-ND	Tri-State 16-Bit Level Shift Transceiver.	48-SSOP	1.35	1.13	.90
SN74ALVC16835GQLR	296-9773-1-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	2.20	1.76	1.32
SN74ALVC16835GQLR	296-9773-2-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	1144.00/1,000		
SN74ALVCF162834GR	296-13628-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TSSOP	1.75	1.40	1.05
SN74ALVCF162834GR	296-13628-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TSSOP	1820.00/2,000		
SN74ALVCF162834LR	296-13629-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-SSOP	1.75	1.40	1.05
SN74ALVCF162834LR	296-13629-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-SSOP	910.00/1,000		
SN74ALVCF162834VR	296-13630-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TVSOP	1.75	1.40	1.05
SN74ALVCF162834VR	296-13630-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TVSOP	1820.00/2,000		
SN74ALVCF162835GR	296-13607-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TSSOP	2.25	1.80	1.35
SN74ALVCF162835GR	296-13607-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TSSOP	2340.00/2,000		
SN74ALVCF162835LR	296-13608-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-SSOP	2.25	1.80	1.35
SN74ALVCF162835LR	296-13608-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-SSOP	1170.00/1,000		
SN74ALVCF162835VR	296-13609-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TVSOP	2.25	1.80	1.35
SN74ALVCF162835VR	296-13609-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TVSOP	2340.00/2,000		

ALVCH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74ALVCH244DGVR	296-6274-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.54	.41	.31
SN74ALVCH244DGVR	296-6274-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	360.00/2,000		
SN74ALVCH244DW	296-1517-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.54	.41	.31
SN74ALVCH244DWR	296-1517-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.54	.41	.31
SN74ALVCH244DWR	296-1517-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	360.00/2,000		
SN74ALVCH244PWR	296-6275-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.54	.41	.31
SN74ALVCH244PWR	296-6275-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	360.00/2,000		
SN74ALVCH245DGVR	296-6276-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.54	.41	.31
SN74ALVCH245DGVR	296-6276-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	360.00/2,000		
SN74ALVCH245DWR	296-6277-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.54	.41	.31
SN74ALVCH245DWR	296-6277-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	360.00/2,000		
SN74ALVCH245PWR	296-6278-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.54	.41	.31
SN74ALVCH245PWR	296-6278-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	360.00/2,000		
SN74ALVCH373DGVR	296-6283-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TVSOP	.54	.41	.31
SN74ALVCH373DGVR	296-6283-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TVSOP	360.00/2,000		
SN74ALVCH373DWR	296-6284-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.54	.41	.31
SN74ALVCH373DWR	296-6284-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	360.00/2,000		
SN74ALVCH373PWR	296-6285-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.54	.41	.31
SN74ALVCH373PWR	296-6285-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	360.00/2,000		
SN74ALVCH374PWR	296-12462-1-ND	Tri-State Octal Pos. Edge-Triggered D-Type Flip-Flop	20-TSSOP	.54	.41	.31
SN74ALVCH374PWR	296-12462-2-ND	Tri-State Octal Pos. Edge-Triggered D-Type Flip-Flop	20-TSSOP	360.00/2,000		
SN74ALVCH16240DGGR	296-5185-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ALVCH16240DGGR	296-5185-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ALVCH16240DL	296-5186-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ALVCH16240DLR	296-5186-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ALVCH16240DLR	296-5186-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ALVCH16244DGGR	296-1139-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.05	.88	.70
SN74ALVCH16244DGGR	296-1139-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	932.00/2,000		
SN74ALVCH16244DGVR	296-5187-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.05	.88	.70
SN74ALVCH16244DGVR	296-5187-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	932.00/2,000		
SN74ALVCH16244DL	296-5188-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.05	.88	.70
SN74ALVCH16244DLR	296-5188-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.05	.88	.70
SN74ALVCH16244DLR	296-5188-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	466.00/1,000		
SN74ALVCH16244KR	296-5189-1-ND	Tri-State 16-Bit Buffer/Driver	48-BGA	1.35	1.13	.90
SN74ALVCH16244KR	296-5189-2-ND	Tri-State 16-Bit Buffer/Driver	48-BGA	599.00/1,000		
SN74ALVCH16245DGGR	296-5190-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.05	.88	.70
SN74ALVCH16245DGGR	296-5190-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	932.00/2,000		
SN74ALVCH16245DGVR	296-5191-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.05	.88	.70
SN74ALVCH16245DGVR	296-5191-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	932.00/2,000		
SN74ALVCH16245DL	296-5192-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.05	.88	.70
SN74ALVCH16245DLR	296-5192-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.05	.88	.70
SN74ALVCH16245DLR	296-5192-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	466.00/1,000		
SN74ALVCH16245KR	296-5193-1-ND	Tri-State 16-Bit Bus Transceiver	48-BGA	1.35	1.13	.90
SN74ALVCH16245KR	296-5193-2-ND	Tri-State 16-Bit Bus Transceiver	48-BGA	599.00/1,000		
SN74ALVCH16260DGGR	296-1140-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1.35	1.13	.90
SN74ALVCH16260DGGR	296-1140-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1198.00/2,000		
SN74ALVCH16260DL	296-1141-5-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	1.35	1.13	.90
SN74ALVCH16260DLR	296-1141-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	1.35	1.13	.90
SN74ALVCH16260DLR	296-1141-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	599.00/1,000		
SN74ALVCH16269DGGR	296-5198-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.35	1.13	.90
SN74ALVCH16269DGGR	296-5198-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1198.00/2,000		
SN74ALVCH16269DL	296-5199-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.35	1.13	.90

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
SN74ALVCH16269KR	296-9775-1-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-VFBGA	1.25	1.00	.75
SN74ALVCH16269KR	296-9775-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-VFBGA	650.00/1,000		
SN74ALVCH16270DGGR	296-5200-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16270DGGR	296-5200-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1820.00/2,000		
SN74ALVCH16270DL	296-5201-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCH16270DLR	296-5201-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCH16270DLR	296-5201-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	910.00/1,000		
SN74ALVCH16271DGGR	296-5202-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	3.71	2.97	2.31
SN74ALVCH16271DGGR	296-5202-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	4208.00/2,000		
SN74ALVCH16271DL	296-5203-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	3.71	2.97	2.31
SN74ALVCH16282DBBR	296-5210-1-ND	Tri-State 18-36-Bit Registered Bus Exchanger	80-SOP	7.50	6.00	5.07
SN74ALVCH16282DBBR	296-5210-2-ND	Tri-State 18-36-Bit Registered Bus Exchanger	80-SOP	9376.00/2,000		
SN74ALVCH16334DGGR	296-5220-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	3.71	2.97	2.31
SN74ALVCH16334DGGR	296-5220-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	4208.00/2,000		
SN74ALVCH16334DGVR	296-12869-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	3.71	2.97	2.31
SN74ALVCH16334DGVR	296-12869-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	4208.00/2,000		
SN74ALVCH16334DL	296-5221-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVCH16344DGGR	296-5222-1-ND	Tri-State 1-4-Bit Address Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVCH16344DGGR	296-5222-2-ND	Tri-State 1-4-Bit Address Driver	56-TSSOP	4208.00/2,000		
SN74ALVCH16344DLR	296-5223-1-ND	Tri-State 1-4-Bit Address Driver	56-SSOP	3.71	2.97	2.31
SN74ALVCH16344DLR	296-5223-2-ND	Tri-State 1-4-Bit Address Driver	56-SSOP	2104.00/1,000		
SN74ALVCH16373DGGR	296-5224-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.05	.88	.70
SN74ALVCH16373DGGR	296-5224-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	932.00/2,000		
SN74ALVCH16373DL	296-5225-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.05	.88	.70
SN74ALVCH16373KR	296-9776-1-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	1.05	.88	.70
SN74ALVCH16373KR	296-9776-2-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	466.00/1,000		
SN74ALVCH16374DGGR	296-1144-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.05	.88	.70
SN74ALVCH16374DGGR	296-1144-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	932.00/2,000		
SN74ALVCH16374DL	296-5226-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.05	.88	.70
SN74ALVCH16374DLR	296-5226-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.05	.88	.70
SN74ALVCH16374DLR	296-5226-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	466.00/1,000		
SN74ALVCH16374KR	296-9777-1-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	1.05	.88	.70
SN74ALVCH16374KR	296-9777-2-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	466.00/1,000		
SN74ALVCH16409DGGR	296-5227-1-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-TSSOP	1.38	1.10	.83
SN74ALVCH16409DGGR	296-5227-2-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-TSSOP	1430.00/2,000		
SN74ALVCH16409DL	296-5228-5-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-SSOP	1.38	1.10	.83
SN74ALVCH16500DGGR	296-5229-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16500DGGR	296-5229-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16500DLR	296-5230-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16500DLR	296-5230-2-ND	Tri-State 18-Bit Univ. Bus Transceiver.	56-SSOP	715.00/1,000		
SN74ALVCH16501DGGR	296-1145-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16501DGGR	296-1145-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16501DL	296-5231-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16501KR	296-9778-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-VFBGA	1.38	1.10	.83
SN74ALVCH16501KR	296-9778-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-VFBGA	715.00/1,000		
SN74ALVCH16524DGGR	296-5232-1-ND	Tri-State 18-Bit Reg. Bus Transceiver	56-TSSOP	8.00	6.40	5.40
SN74ALVCH16524DGGR	296-5232-2-ND	Tri-State 18-Bit Reg. Bus Transceiver	56-TSSOP	10000.00/2,000		
SN74ALVCH16524DL	296-12870-5-ND	Tri-State 16-Bit Universal Bus Driver	56-SSOP	8.00	6.40	5.40
SN74ALVCH16525DL	296-12871-5-ND	Tri-State 18-Bit Reg. Bus Transceiver	56-SSOP	1.88	1.50	1.13
SN74ALVCH16525DGGR	296-5233-1-ND	Tri-State 18-Bit Reg. Bus Transceiver	56-TSSOP	1.88	1.50	1.13
SN74ALVCH16525DGGR	296-5233-2-ND	Tri-State 18-Bit Reg. Bus Transceiver	56-TSSOP	1950.00/2,000		
SN74ALVCH16543DGGR	296-5236-1-ND	Tri-State 16-Bit Reg. Transceiver	56-TSSOP	1.63	1.30	.98
SN74ALVCH16543DGGR	296-5236-2-ND	Tri-State 16-Bit Reg. Transceiver	56-TSSOP	1690.00/2,000		
SN74ALVCH16543DL	296-5237-5-ND	Tri-State 16-Bit Reg. Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16600DGGR	296-5238-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4.84	3.87	3.01
SN74ALVCH16600DGGR	296-5238-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	5482.00/2,000		
SN74ALVCH16600DLR	296-5239-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.84	3.87	3.01
SN74ALVCH16600DLR	296-5239-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2741.00/1,000		
SN74ALVCH16601DGGR	296-1146-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.63	1.30	.98
SN74ALVCH16601DGGR	296-1146-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1690.00/2,000		
SN74ALVCH16601DL	296-5240-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16601DLR	296-5241-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16601DLR	296-5241-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	845.00/1,000		
SN74ALVCH16646DGGR	296-5242-1-ND	Tri-St. 16-Bit Bus Transcvr./Register	56-TSSOP	2.13	1.70	1.28
SN74ALVCH16646DGGR	296-5242-2-ND	Tri-St. 16-Bit Bus Transcvr./Register	56-TSSOP	2210.00/2,000		
SN74ALVCH16646DGVR	296-5243-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2.13	1.70	1.28
SN74ALVCH16646DGVR	296-5243-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2210.00/2,000		
SN74ALVCH16646DL	296-5244-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.13	1.70	1.28
SN74ALVCH16646DLR	296-5244-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.13	1.70	1.28
SN74ALVCH16646DLR	296-5244-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1105.00/1,000		
SN74ALVCH16721DGGR	296-1147-1-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-TSSOP	1.63	1.30	.98
SN74ALVCH16721DGGR	296-1147-2-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-TSSOP	1690.00/2,000		
SN74ALVCH16721DGVR	296-5245-1-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-TVSOP	1.63	1.30	.98
SN74ALVCH16721DGVR	296-5245-2-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-TVSOP	1690.00/2,000		
SN74ALVCH16721DLR	296-5246-1-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-SSOP	1.63	1.30	.98
SN74ALVCH16721DLR	296-5246-2-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-SSOP	845.00/1,000		
SN74ALVCH16820DGGR	296-5247-1-ND	Tri-State/Dual Output 3.3V 10-Bit Flip-Flop	56-TSSOP	3.49	2.79	2.17
SN74ALVCH16820DGGR	296-5247-2-ND	Tri-State/Dual Output 3.3V 10-Bit Flip-Flop	56-TSSOP	3952.00/2,000		
SN74ALVCH16820DLR	296-5248-1-ND	Tri-State/Dual Output 3.3V 10-Bit Flip-Flop	56-SSOP	3.49	2.79	2.17
SN74ALVCH16820DLR	296-5248-2-ND	Tri-State/Dual Output 3.3V 10-Bit Flip-Flop	56-SSOP	1976.00/1,000		
SN74ALVCH16821DGGR	296-5249-1-ND	Tri-State 3.3V 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3.49	2.79	2.17
SN74ALVCH16821DGGR	296-5249-2-ND	Tri-State 3.3V 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3952.00/2,000		
SN74ALVCH16821DL	296-5250-5-ND	Tri-State 3.3V 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.49	2.79	2.17
SN74ALVCH16821DLR	296-5250-1-ND	Tri-State 3.3V 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.49	2.79	2.17
SN74ALVCH16821DLR	296-5250-2-ND	Tri-State 3.3V 20-Bit Bus-Interface Flip-Flop	56-SSOP	1976.00/1,000		
SN74ALVCH16823DGGR	296-1148-1-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16823DGGR	296-1148-2-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	1820.00/2,000		
SN74ALVCH16823DL	296-5251-5-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-SSOP	1.75	1.40	1.05
SN74ALVCH16823DGVR	296-12872-1-ND	Tri-St. 18-Bit Bus Interface Flip-Flop.	56-TVSOP	1.75	1.40	1.05
SN74ALVCH16823DGVR	296-12872-2-ND	Tri-St. 18-Bit Bus Interface Flip-Flop.	56-TVSOP	1820.00/2,000		
SN74ALVCH16825DGGR	296-5252-1-ND	Tri-State 18-Bit Buffer/Driver	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16825DGGR	296-5252-2-ND	Tri-State 18-Bit Buffer/Driver	56-TSSOP	1820.00/2,000		
SN74ALVCH16825DL	296-5253-5-ND	Tri-State 18-Bit Buffer/Driver.	56-SSOP	1.75	1.40	1.05
SN74ALVCH16827DGGR	296-5254-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1.88	1.50	1.13
SN74ALVCH16827DGGR	296-5254-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1950.00/2,000		
SN74ALVCH16827DL	296-5255-5-ND	Tri-State 20-Bit Buffer/Driver.	56-SSOP	1.88	1.50	1.13
SN74ALVCH16831DBBR	296-5256-1-ND	Tri-State 1-4 Address Register/Driver	80-SOP	5.84	4.68	3.95
SN74ALVCH16831DBBR	296-5256-2-ND	Tri-State 1-4 Address Register/Driver	80-SOP	7300.00/2,000		
SN74ALVCH16832DGGR	296-5257-1-ND	Tri-State 1-4 Address Register/Driver	64-TSSOP	5.80	4.64	3.92
SN74ALVCH16832DGGR	296-5257-2-ND	Tri-State 1-4 Address Register/Driver	64-TSSOP	7250.00/2,000		
SN74ALVCH16835DGGR	296-1149-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1.50	1.20	.90
SN74ALVCH16835DGGR	296-1149-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1560.00/2,000		
SN74ALVCH16835DGVR	296-5258-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1.50	1.20	.90
SN74ALVCH16835DGVR	296-5258-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1560.00/2,000		
SN74ALVCH16835DL	296-5259-5-ND	Tri-State 18-Bit Universal Bus Driver.	56-SSOP	1.50	1.20	.90
SN74ALVCH16835DLR	296-5259-1-ND	Tri-State 18-Bit Universal Bus Driver.	56-SSOP	1.50	1.20	.90
SN74ALVCH16835DLR	296-5259-2-ND	Tri-State 18-Bit Universal Bus Driver.	56-SSOP	780.00/1,000		
SN74ALVCH16835KR	296-5260-1-ND	Tri-State 18-Bit Universal Bus Driver	56-BGA	1.65	1.32	.99
SN74ALVCH16835KR	296-5260-2-ND	Tri-State 18-Bit Universal Bus Driver	56-BGA	858.00/1,000		
SN74ALVCH16841DGGR	296-6261-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	3.71	2.97	2.31
SN74ALVCH16841DGGR	296-6261-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	4208.00/2,000		
SN74ALVCH16841DL	296-6266-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	3.71	2.97	2.31
SN74ALVCH16863DGGR	296-6267-1-ND	Tri-State 18-Bit Transceiver.	56-TSSOP	3.49	2.79	2.17
SN74ALVCH16863DGGR	296-6267-2-ND	Tri-State 18-Bit Transceiver.	56-TSSOP	3952.00/2,000		
SN74ALVCH16863DLR	296-6268-1-ND	Tri-State 18-Bit Transceiver	56-SSOP	3.49	2.79	2.17
SN74ALVCH16863DLR	296-6268-2-ND	Tri-State 18-Bit Transceiver	56-SSOP	1976.00/1,000		
SN74ALVCH16901DGGR	296-6269-1-ND	18-Bit Universal Bus Transceiver with Parity-Generator/Checker	64-TSSOP	3.38	2.70	2.10
SN74ALVCH16901DGGR	296-6269-2-ND	18-Bit Universal Bus Transceiver with Parity-Generator/Checker	64-TSSOP	3826.00/2,000		
SN74ALVCH16903DGGR	296-6270-1-ND	Tri-State/Dual Output 3.3V 12-Bit Universal Bus Driver	56-TSSOP	8.50	6.80	5.74
SN74ALVCH16903DGGR	296-6270-2-ND	Tri-State/Dual Output 3.3V 12-Bit Universal Bus Driver	56-TSSOP	10626.00/2,000		
SN74ALVCH16903DGVR	296-6271-1-ND	Tri-State/Dual Output 3.3V 12-Bit Universal Bus Driver	56-TVSOP	8.50	6.80	5.74
SN74ALVCH16903DGVR	296-6271-2-ND	Tri-State/Dual Output 3.3V 12-Bit Universal Bus Driver	56-TVSOP	10626.00/2,000		
SN74ALVCH16903DL	296-12873-5-ND	Tri-State/Dual Output 3.3V 12-Bit Universal Bus Driver.	56-SSOP	8.50	6.80	5.74
SN74ALVCH16952DGGR	296-9780-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16952DGGR	296-9780-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16952DGVR	296-6272-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TVSOP	1.38	1.10	.83
SN74ALVCH16952DGVR	296-6272-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TVSOP	1430.00/2,000		
SN74ALVCH16952DL	296-6273-5-ND	Tri-St. 16-Bit Registered Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16952DLR	296-6273-1-ND	Tri-St. 16-Bit Registered Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16952DLR	296-6273-2-ND	Tri-St. 16-Bit Registered Transceiver	56-SSOP	715.00/1,000		
SN74ALVCH32244KR	296-6279-1-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	3.38	2.70	2.10
SN74ALVCH32244KR	296-6279-2-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	1913.00/1,000		
SN74ALVCH32245KR	296-6280-1-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	3.38	2.70	2.10
SN74ALVCH32245KR	296-6280-2-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	1913.00/1,000		
SN74ALVCH32374KR	296-6281-1-ND	Tri-State 32-Bit D-Type Flip-Flop	96-BGA	3.38	2.70	2.10
SN74ALVCH32374KR	296-6281-2-ND	Tri-State 32-Bit D-Type Flip-Flop	96-BGA	1913.00/1,000		
SN74ALVCH32501KR	296-6282-1-ND	Tri-State 36-Bit Univ. Bus Transceiver	114-BGA	5.86	4.69	3.96
SN74ALVCH32501KR	296-6282-2-ND	Tri-State 36-Bit Univ. Bus Transceiver	114-BGA	3663.00/1,000		
SN74ALVCH162244DL	296-5174-5-ND	Tri-State 16-Bit Buffer/Driver.	48-SSOP	1.05	.88	.70
SN74ALVCH162244DLR	296-5174-1-ND	Tri-State 16-Bit Buffer/Driver.	48-SSOP	1.05	.88	.70
SN74ALVCH162244DLR	296-5174-2-ND	Tri-State 16-Bit Buffer/Driver.	48-SSOP	466.00/1,000		
SN74ALVCH162244GR	296-5175-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.05	.88	.70
SN74ALVCH162244GR	296-5175-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	932.00/2,000		
SN74ALVCH162260DL	296-5176-5-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	1.38	1.10	.83
SN74ALVCH162260GR	296-1138-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1.38	1.10	.83
SN74ALVCH162260GR	296-1138-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1430.00/2,000		
SN74ALVCH162268DL	296-5177-5-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-SSOP	1.38	1.10	.83
SN74ALVCH162268GR	296-5178-1-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-TSSOP	1.38	1.10	.83
SN74ALVCH162268GR	296-5178-2-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-TSSOP	1430.00/2,000		
SN74ALVCH162334DL	296-5179-5-ND	Tri-State 16-Bit Univ. Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVCH162334GR	296-5180-1-ND	Tri-State 16-Bit Univ. Bus Driver.	48-TSSOP	3.71	2.97	2.31
SN74ALVCH162334GR	296-5180-2-ND	Tri-State 16-Bit Univ. Bus Driver.	48-TSSOP	4208.00/2,000		
SN74ALVCH162334VR	296-12864-1-ND	Tri-State 16-Bit Univ. Bus Driver.	48-TVSOP	3.71	2.97	2.31
SN74ALVCH162334VR	296-12864-2-ND	Tri-State 16-Bit Univ. Bus Driver.	48-TVSOP	4208.00/2,000		
SN74ALVCH162344DL	296-5181-5-ND	Tri-State 1-to-4-Bit Address Driver.	56-SSOP	1.25	1.00	.75
SN74ALVCH162344GR	296-5182-1-ND	Tri-State 1-to-4-Bit Address Driver	56-TSSOP	1.25	1.00	.75
SN74ALVCH162344GR	296-5182-2-ND	Tri-State 1-to-4-Bit Address Driver	56-TSSOP	1300.00/2,000		
SN74ALVCH162344VR	296-12865-1-ND	Tri-State 1-to-4-Bit Address Driver	56-TVSOP	1.25	1.00	.75
SN74ALVCH162344VR	296-12865-2-ND	Tri-State 1-to-4-Bit Address Driver	56-TVSOP	1300.00/2,000		
SN74ALVCH162374DL	296-5183-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.20	1.00	.80
SN74ALVCH162374GR	296-5184-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.20	1.00	.80
SN74ALVCH162374GR	296-5184-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1064.00/2,000		
SN74ALVCH162525DL	296-12866-5-ND	Tri-State 18-Bit Reg. Transceiver	56-SSOP	2.13	1.70	1.28
SN74ALVCH162525GR	296-5194-1-ND	Tri-State 18-Bit Reg. Transceiver	56-TSSOP	2.13	1.70	1.28
SN74ALVCH162525GR	296-5194-2-ND	Tri-State 18-Bit Reg. Transceiver	56-TSSOP	2210.00/2,000		
SN74ALVCH162601DL	296-5195-5-ND	Tri-State 18-Bit Reg. Transceiver	56-SSOP	1.35	1.13	.90
SN74ALVCH162601GR	296-5196-1-ND	Tri-State 18-Bit Reg. Transceiver	56-TSSOP	1.35	1.13	.90
SN74ALVCH162601GR	296-5196-2-ND	Tri-State 18-Bit Reg. Transceiver	56-TSSOP	1198.00/2,000		
SN74ALVCH162721DL	296-5204-5-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-SSOP	2.13	1.70	1.28
SN74ALVCH162721DLR	296-5204-1-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-SSOP	2.13	1.70	1.28
SN74ALVCH162721DLR	296-5204-2-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-SSOP	1105.00/1,000		
SN74ALVCH162721GR	296-5205-1-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-TSSOP	2.13	1.70	1.28
SN74ALVCH162721GR	296-5205-2-ND	Tri-State 3.3V 20-Bit Flip-Flop	56-TSSOP	2210.00/2,000		
SN74ALVCH162820DL	296-5206-5-ND	Tri-State 3.3V 10-Bit Flip-Flop with Dual Output.	56-SSOP	1.75	1.40	1.05

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVCH162820GR	296-5207-1-ND	Tri-State 3.3V 10-Bit Flip-Flop with Dual Output	56-TSSOP	1.75	1.40	1.05
SN74ALVCH162820GR	296-5207-2-ND	Tri-State 3.3V 10-Bit Flip-Flop with Dual Output	56-TSSOP	1820.00/2,000		
SN74ALVCH162827DL	296-5208-5-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	1.50	1.20	.90
SN74ALVCH162827GR	296-1142-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1.50	1.20	.90
SN74ALVCH162827GR	296-1142-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1560.00/2,000		
SN74ALVCH162827VR	296-5209-1-ND	Tri-State 20-Bit Buffer/Driver	56-SOP	1.50	1.20	.90
SN74ALVCH162827VR	296-5209-2-ND	Tri-State 20-Bit Buffer/Driver	56-SOP	1560.00/2,000		
SN74ALVCH162830GR	296-5211-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	2.00	1.60	1.20
SN74ALVCH162830GR	296-5211-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	2080.00/2,000		
SN74ALVCH162831GR	296-5212-1-ND	Tri-State 1-4-Bit Address Reg./Driver	80-TSSOP	5.84	4.68	3.95
SN74ALVCH162831GR	296-5212-2-ND	Tri-State 1-4-Bit Address Reg./Driver	80-TSSOP	7300.00/2,000		
SN74ALVCH162832GR	296-5213-1-ND	Tri-State 1-4-Bit Address Reg./Driver	64-TSSOP	5.80	4.64	3.92
SN74ALVCH162832GR	296-5213-2-ND	Tri-State 1-4-Bit Address Reg./Driver	64-TSSOP	7250.00/2,000		
SN74ALVCH162835DL	296-5214-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.00	1.60	1.20
SN74ALVCH162835GR	296-5215-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.00	1.60	1.20
SN74ALVCH162835GR	296-5215-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2080.00/2,000		
SN74ALVCH162835VR	296-12867-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.00	1.60	1.20
SN74ALVCH162835VR	296-12867-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2080.00/2,000		
SN74ALVCH162836DL	296-12868-5-ND	Tri-State 20-Bit Universal Bus Driver	56-SSOP	3.94	3.15	2.45
SN74ALVCH162836GR	296-5216-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	3.94	3.15	2.45
SN74ALVCH162836GR	296-5216-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	4462.00/2,000		
SN74ALVCH162836VR	296-5217-1-ND	Tri-State 20-Bit Universal Bus Driver	56-SOP	3.94	3.15	2.45
SN74ALVCH162836VR	296-5217-2-ND	Tri-State 20-Bit Universal Bus Driver	56-SOP	4462.00/2,000		
SN74ALVCH162841DL	296-5218-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.13	1.70	1.28
SN74ALVCH162841GR	296-5219-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2.13	1.70	1.28
SN74ALVCH162841GR	296-5219-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2210.00/2,000		

ALVCHG Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVCHG162280GR	296-6286-1-ND	Tri-State 16-to-32-Bit Registered Bus Exchanger with Byte Mask	80-TSSOP	9.00	7.20	6.08
SN74ALVCHG162280GR	296-6286-2-ND	Tri-State 16-to-32-Bit Registered Bus Exchanger with Byte Mask	80-TSSOP	11250.00/2,000		
SN74ALVCHG162282GR	296-12874-1-ND	Tri-State 18-to-36-Bit Registered Bus Exchanger	80-TVSOP	9.00	7.20	6.08
SN74ALVCHG162282GR	296-12874-2-ND	Tri-State 18-to-36-Bit Registered Bus Exchanger	80-TVSOP	11250.00/2,000		

ALVCHR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVCHR16245GR	296-6287-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ALVCHR16245GR	296-6287-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ALVCHR16245LR	296-6288-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ALVCHR16245LR	296-6288-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74ALVCHR16269AGR	296-1280-1-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-TSSOP	1.75	1.40	1.05
SN74ALVCHR16269AGR	296-1280-2-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-TSSOP	1820.00/2,000		
SN74ALVCHR16269ALR	296-6289-1-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCHR16269ALR	296-6289-2-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-SSOP	910.00/1,000		
SN74ALVCHR16269AVR	296-6290-1-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-SOP	1.75	1.40	1.05
SN74ALVCHR16269AVR	296-6290-2-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-SOP	1820.00/2,000		
SN74ALVCHR16269GR	296-9781-1-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-TSSOP	1.75	1.40	1.05
SN74ALVCHR16269GR	296-9781-2-ND	Tri-St. 12-24-Bit Reg. Bus Exchanger	56-TSSOP	1820.00/2,000		
SN74ALVCHR16409GR	296-12877-1-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-TSSOP	7.90	6.32	5.34
SN74ALVCHR16409GR	296-12877-2-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-TSSOP	9876.00/2,000		
SN74ALVCHR16409LR	296-6291-1-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-SSOP	7.94	6.36	5.36
SN74ALVCHR16409LR	296-6291-2-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-SSOP	4963.00/1,000		
SN74ALVCHR16601GR	296-1150-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.75	1.40	1.05
SN74ALVCHR16601GR	296-1150-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1820.00/2,000		
SN74ALVCHR16601LR	296-6292-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.75	1.40	1.05
SN74ALVCHR16601LR	296-6292-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	910.00/1,000		
SN74ALVCHR16601VR	296-12878-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TVSOP	1.75	1.40	1.05
SN74ALVCHR16601VR	296-12878-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TVSOP	1820.00/2,000		
SN74ALVCHR162245DL	296-12875-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ALVCHR162601DL	296-12876-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.84	3.87	3.01

ALVCHS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVCHS162830GR	296-6293-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	6.50	5.20	4.39
SN74ALVCHS162830GR	296-6293-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	8126.00/2,000		

ALVTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVTH16240DLR	296-6296-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ALVTH16240DLR	296-6296-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ALVTH16240GR	296-6297-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ALVTH16240GR	296-6297-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ALVTH16240VR	296-6298-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SOP	1.20	1.00	.80
SN74ALVTH16240VR	296-6298-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SOP	1064.00/2,000		
SN74ALVTH16244DL	296-1519-5-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ALVTH16244DLR	296-1519-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ALVTH16244DLR	296-1519-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ALVTH16244GR	296-6299-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ALVTH16244GR	296-6299-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ALVTH16244KR	296-6300-1-ND	Tri-State 2.5V/3.3V 16-Bit Buffer/Driver	48-BGA	1.20	1.00	.80
SN74ALVTH16244KR	296-6300-2-ND	Tri-State 2.5V/3.3V 16-Bit Buffer/Driver	48-BGA	532.00/1,000		
SN74ALVTH16244VR	296-6301-1-ND	Tri-State 2.5V/3.3V 16-Bit Buffer/Driver	48-SOP	1.20	1.00	.80
SN74ALVTH16244VR	296-6301-2-ND	Tri-State 2.5V/3.3V 16-Bit Buffer/Driver	48-SOP	1064.00/2,000		
SN74ALVTH16245DLR	296-13158-1-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ALVTH16245DLR	296-13158-2-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74ALVTH16245GR	296-13159-1-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ALVTH16245GR	296-13159-2-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ALVTH16245VR	296-13160-1-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-TVSOP	1.20	1.00	.80
SN74ALVTH16245VR	296-13160-2-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-TVSOP	1064.00/2,000		
SN74ALVTH16373DLR	296-6305-1-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Latch	48-SSOP	1.20	1.00	.80
SN74ALVTH16373DLR	296-6305-2-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Latch	48-SSOP	532.00/1,000		
SN74ALVTH16373GR	296-6306-1-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Latch	48-TSSOP	1.20	1.00	.80
SN74ALVTH16373GR	296-6306-2-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Latch	48-TSSOP	1064.00/2,000		
SN74ALVTH16373KR	296-9782-1-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Latch	56-VFBGA	1.32	1.10	.88
SN74ALVTH16373KR	296-9782-2-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Latch	56-VFBGA	585.00/1,000		
SN74ALVTH16373VR	296-6307-1-ND	Tri-State 2.5V/3.3V 16-Bit D-Type Latch	48-SOP	1.20	1.00	.80
SN74ALVTH16373VR	296-6307-2-ND	Tri-State 2.5V/3.3V 16-Bit D-Type Latch	48-SOP	1064.00/2,000		
SN74ALVTH16374DLR	296-6308-1-ND	Tri-State 2.5V/3.3V 16-Bit D-Type Flip-Flop	48-SSOP	1.20	1.00	.80
SN74ALVTH16374DLR	296-6308-2-ND	Tri-State 2.5V/3.3V 16-Bit D-Type Flip-Flop	48-SSOP	532.00/1,000		
SN74ALVTH16374GR	296-6309-1-ND	Tri-State 2.5V/3.3V 16-Bit D-Type Flip-Flop	48-TSSOP	1.20	1.00	.80
SN74ALVTH16374GR	296-6309-2-ND	Tri-State 2.5V/3.3V 16-Bit D-Type Flip-Flop	48-TSSOP	1064.00/2,000		
SN74ALVTH16374KR	296-6310-1-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Flip-Flop	48-BGA	1.32	1.10	.88
SN74ALVTH16374KR	296-6310-2-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Flip-Flop	48-BGA	585.00/1,000		
SN74ALVTH16374VR	296-6311-1-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Flip-Flop	48-BGA	1.20	1.00	.80
SN74ALVTH16374VR	296-6311-2-ND	Tri-St. 2.5V/3.3V 16-Bit D-Type Flip-Flop	48-BGA	1064.00/2,000		
SN74ALVTH16601DLR	296-6312-1-ND	Tri-State 2.5V/3.3V 18-Bit Universal Bus Transceiver	56-SSOP	2.93	2.34	1.82
SN74ALVTH16601DLR	296-6312-2-ND	Tri-State 2.5V/3.3V 18-Bit Universal Bus Transceiver	56-SSOP	1658.00/1,000		
SN74ALVTH16601GR	296-6313-1-ND	Tri-State 2.5V/3.3V 18-Bit Universal Bus Transceiver	56-TSSOP	2.93	2.34	1.82
SN74ALVTH16601GR	296-6313-2-ND	Tri-State 2.5V/3.3V 18-Bit Universal Bus Transceiver	56-TSSOP	3316.00/2,000		
SN74ALVTH16601VR	296-6314-1-ND	Tri-State 2.5V/3.3V 18-Bit Universal Bus Transceiver	56-SOP	2.93	2.34	1.82
SN74ALVTH16601VR	296-6314-2-ND	Tri-State 2.5V/3.3V 18-Bit Universal Bus Transceiver	56-SOP	3316.00/2,000		
SN74ALVTH16821DL	296-1520-5-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface Flip-Flop	56-SSOP	2.93	2.34	1.82
SN74ALVTH16821DLR	296-1520-1-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface Flip-Flop	56-SSOP	2.93	2.34	1.82
SN74ALVTH16821DLR	296-1520-2-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface Flip-Flop	56-SSOP	1658.00/1,000		
SN74ALVTH16821GR	296-6315-1-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface Flip-Flop	56-TSSOP	2.93	2.34	1.82
SN74ALVTH16821GR	296-6315-2-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3316.00/2,000		
SN74ALVTH16821VR	296-6316-1-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface Flip-Flop	56-SOP	2.93	2.34	1.82
SN74ALVTH16821VR	296-6316-2-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface Flip-Flop	56-SOP	3316.00/2,000		
SN74ALVTH16827DL	296-6317-5-ND	Tri-St. 2.5V/3.3V 20-Bit Buffer/Driver	56-SSOP	2.93	2.34	1.82
SN74ALVTH16827DLR	296-6317-1-ND	Tri-St. 2.5V/3.3V 20-Bit Buffer/Driver	56-SSOP	2.93	2.34	1.82
SN74ALVTH16827DLR	296-6317-2-ND	Tri-St. 2.5V/3.3V 20-Bit Buffer/Driver	56-SSOP	1658.00/1,000		
SN74ALVTH16827GR	296-6318-1-ND	Tri-St. 2.5V/3.3V 20-Bit Buffer/Driver	56-TSSOP	2.93	2.34	1.82
SN74ALVTH16827GR	296-6318-2-ND	Tri-St. 2.5V/3.3V 20-Bit Buffer/Driver	56-TSSOP	3316.00/2,000		
SN74ALVTH16827VR	296-6319-1-ND	Tri-State 2.5V/3.3V 20-Bit Buffer/Driver	56-SOP	2.93	2.34	1.82
SN74ALVTH16827VR	296-6319-2-ND	Tri-State 2.5V/3.3V 20-Bit Buffer/Driver	56-SOP	3316.00/2,000		
SN74ALVTH32244KR	296-6320-1-ND	Tri-State 2.5V/3.3V 32-Bit Buffer/Driver	96-BGA	1.50	1.20	.90
SN74ALVTH32244KR	296-6320-2-ND	Tri-State 2.5V/3.3V 32-Bit Buffer/Driver	96-BGA	780.00/1,000		
SN74ALVTH32373KR	296-6321-1-ND	Tri-State 2.5V/3.3V 32-Bit Transparent D-Type Latch	96-BGA	1.50	1.20	.90
SN74ALVTH32373KR	296-6321-2-ND	Tri-State 2.5V/3.3V 32-Bit Transparent D-Type Latch	96-BGA	780.00/1,000		
SN74ALVTH32374KR	296-6322-1-ND	Tri-State 2.5V/3.3V 32-Bit D-Type Flip-Flop	96-BGA	1.50	1.20	.90
SN74ALVTH32374KR	296-6322-2-ND	Tri-State 2.5V/3.3V 32-Bit D-Type Flip-Flop	96-BGA	780.00/1,000		
SN74ALVTH162244DL	296-1518-5-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ALVTH162244GR	296-6294-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ALVTH162244GR	296-6294-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ALVTH162244LR	296-12879-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ALVTH162244LR	296-12879-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ALVTH162244VR	296-6295-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SOP	1.20	1.00	.80
SN74ALVTH162244VR	296-6295-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	48-SOP	1064.00/2,000		
SN74ALVTH162245GR	296-13155-1-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ALVTH162245GR	296-13155-2-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ALVTH162245LR	296-13156-1-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ALVTH162245LR	296-13156-2-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74ALVTH162245VR	296-13157-1-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-TVSOP	1.20	1.00	.80
SN74ALVTH162245VR	296-13157-2-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	48-TVSOP	1064.00/2,000		
SN74ALVTH162827GR	296-6303-1-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	56-TSSOP	2.93	2.34	1.82
SN74ALVTH162827GR	296-6303-2-ND	Tri-St. 2.5V/3.3V 16-Bit Buffer/Driver	56-TSSOP	3316.00/2,000		
SN74ALVTH162827VR	296-6304-1-ND	Tri-State 2.5V/3.3V 16-Bit Buffer/Driver	56-SOP	2.93	2.34	1.82
SN74ALVTH162827VR	296-6304-2-ND	Tri-State 2.5V/3.3V 16-Bit Buffer/Driver	56-SOP	3316.00/2,000		

AS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AS00N	296-1521-5-ND	Quad 2-Input NAND Gate	14-Dip	.60	.45	.34
SN74AS04N	296-1522-5-ND	Hex Inverter	14-Dip	.60	.45	.34
SN74AS21NSR	296-13162-1-ND	Dual 4-Input Positive AND Gate	14-SOP	.90	.75	.60
SN74AS21NSR	296-13162-2-ND	Dual 4-Input Positive AND Gate	14-SOP	798.00/2,000		
SN74AS27D	296-6350-5-ND	Tri-State Triple Pos. NOR Gate *NEW!*	14-SOIC	.80	.60	.45
SN74AS151NSR	296-13161-1-ND	1-of-8 Data Selector/Multiplexer	16-SOP	1.38	1.15	.92
SN74AS151NSR	296-13161-2-ND	1-of-8 Data Selector/Multiplexer	16-SOP	1224.00/2,000		
SN74AS194D	296-6341-5-ND	4-Bit, Bi-Directional Universal Shift Register *NEW!*	16-SOP	2.43	1.94	1.46
SN74AS194DR	296-6341-1-ND	4-Bit, Bi-Directional Universal Shift Register *NEW!*	16-SOP	2.48	1.98	1.49
SN74AS194DR	296-6341-2-ND	4-Bit, Bi-Directional Universal Shift Register *NEW!*	16-SOP	3167.50/2,500		
SN74AS253AD	296-11843-5-ND	Tri-State Dual 1-of-4 Data Selector/ Multiplexer *NEW!*	16-SOP	2.27	1.82	1.42
SN74AS298ANSR	296-13163-1-ND	Quad 2-Input Multiplexer with Storage	16-SOP	2.13	1.70	1.28
SN74AS298ANSR	296-13163-2-ND	Quad 2-Input Multiplexer with Storage	16-SOP	2210.00/2,000		
SN74AS757N	296-12180-5-ND	Octal Buffer/Line Driver with OC Output	20-Dip	5.10	4.08	3.45
SN74AS874NT	296-6381-5-ND	Dual 4-Bit D-Type Edge-Triggered Flip-Flop *NEW!*	24-Dip	4.28	3.42	2.66

(Continued)

AUC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUC16374GQLR	296-13919-1-ND	Tri-St. 16-Bit D-Type Flip-Flop *NEW!*	56-VFBGA	2.33	1.86	1.40
SN74AUC16374GQLR	296-13919-2-ND	Tri-St. 16-Bit D-Type Flip-Flop *NEW!*	56-VFBGA	1209.00/1,000		
SN74AUC1G00DBVR	296-13164-1-ND	Single 2-Input Pos. NAND Gate	SOT-23-5	.56	.42	.32
SN74AUC1G00DBVR	296-13164-2-ND	Single 2-Input Pos. NAND Gate	SOT-23-5	546.00/3,000		
SN74AUC1G00DCKR	296-13165-1-ND	Single 2-Input Pos. NAND Gate	SC-70-5	.56	.42	.32
SN74AUC1G00DCKR	296-13165-2-ND	Single 2-Input Pos. NAND Gate	SC-70-5	546.00/3,000		
SN74AUC1G02DBVR	296-13166-1-ND	Single 2-Input Pos. NOR Gate	SOT-23-5	.56	.42	.32
SN74AUC1G02DBVR	296-13166-2-ND	Single 2-Input Pos. NOR Gate	SOT-23-5	546.00/3,000		
SN74AUC1G02DCKR	296-13167-1-ND	Single 2-Input Pos. NOR Gate	SC-70-5	.56	.42	.32
SN74AUC1G02DCKR	296-13167-2-ND	Single 2-Input Pos. NOR Gate	SC-70-5	546.00/3,000		
SN74AUC1G02YEAR	296-13724-1-ND	Single 2-Input Pos. NOR Gate	5-DSBGA	.64	.48	.36
SN74AUC1G02YEAR	296-13724-2-ND	Single 2-Input Pos. NOR Gate	5-DSBGA	624.00/3,000		
SN74AUC1G04DBVR	296-13168-1-ND	Single Inverter Gate	SOT-23-5	.56	.42	.32
SN74AUC1G04DBVR	296-13168-2-ND	Single Inverter Gate	SOT-23-5	546.00/3,000		
SN74AUC1G04DCKR	296-13169-1-ND	Single Inverter Gate	SC-70-5	.56	.42	.32
SN74AUC1G04DCKR	296-13169-2-ND	Single Inverter Gate	SC-70-5	546.00/3,000		
SN74AUC1G04YEAR	296-13725-1-ND	Single Inverter Gate	5-DSBGA	.64	.48	.36
SN74AUC1G04YEAR	296-13725-2-ND	Single Inverter Gate	5-DSBGA	624.00/3,000		
SN74AUC1G04YZAR	296-14350-1-ND	Single Inverter Gate *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1G04YZAR	296-14350-2-ND	Single Inverter Gate *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC1G06DBVR	296-12652-1-ND	Single Inverter Buffer/Driver with Open Drain Output	SOT-23-5	.56	.42	.32
SN74AUC1G06DBVR	296-12652-2-ND	Single Inverter Buffer/Driver with Open Drain Output	SOT-23-5	546.00/3,000		
SN74AUC1G06DCKR	296-12653-1-ND	Single Inverter Buffer/Driver with Open Drain Output	SC70-5	.56	.42	.32
SN74AUC1G06DCKR	296-12653-2-ND	Single Inverter Buffer/Driver with Open Drain Output	SC70-5	546.00/3,000		
SN74AUC1G07DBVR	296-12463-1-ND	Single Buffer/Driver with Open Drain Output	SOT-23-5	.56	.42	.32
SN74AUC1G07DBVR	296-12463-2-ND	Single Buffer/Driver with Open Drain Output	SOT-23-5	546.00/3,000		
SN74AUC1G07DCKR	296-12464-1-ND	Single Buffer/Driver with Open Drain Output	SC70-5	.56	.42	.32
SN74AUC1G07DCKR	296-12464-2-ND	Single Buffer/Driver with Open Drain Output	SC70-5	546.00/3,000		
SN74AUC1G07YEAR	296-13726-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.64	.48	.36
SN74AUC1G07YEAR	296-13726-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	624.00/3,000		
SN74AUC1G07YZAR	296-14014-1-ND	Single Buffer/Driver with Open Drain Output *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1G07YZAR	296-14014-2-ND	Single Buffer/Driver with Open Drain Output *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC1G08DBVR	296-13170-1-ND	Single 2-Input Pos. AND Gate	SOT-23-5	.56	.42	.32
SN74AUC1G08DBVR	296-13170-2-ND	Single 2-Input Pos. AND Gate	SOT-23-5	546.00/3,000		
SN74AUC1G08DCKR	296-13171-1-ND	Single 2-Input Pos. AND Gate	SC-70-5	.56	.42	.32
SN74AUC1G08DCKR	296-13171-2-ND	Single 2-Input Pos. AND Gate	SC-70-5	546.00/3,000		
SN74AUC1G08YZAR	296-14015-1-ND	Single 2-Input Pos. AND Gate *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1G08YZAR	296-14015-2-ND	Single 2-Input Pos. AND Gate *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC1G14DBVR	296-12880-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.56	.42	.32
SN74AUC1G14DBVR	296-12880-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	546.00/3,000		
SN74AUC1G14DCKR	296-13172-1-ND	Single Schmitt-Trigger Inverter	SC-70-5	.56	.42	.32
SN74AUC1G14DCKR	296-13172-2-ND	Single Schmitt-Trigger Inverter	SC-70-5	546.00/3,000		
SN74AUC1G14YEAR	296-13727-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.64	.48	.36
SN74AUC1G14YEAR	296-13727-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	624.00/3,000		
SN74AUC1G14YZAR	296-14016-1-ND	Single Schmitt-Trigger Inverter *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1G14YZAR	296-14016-2-ND	Single Schmitt-Trigger Inverter *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC1G17DBVR	296-12654-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.56	.42	.32
SN74AUC1G17DBVR	296-12654-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5	546.00/3,000		
SN74AUC1G17DCKR	296-13173-1-ND	Single Schmitt-Trigger Buffer	SC-70-5	.56	.42	.32
SN74AUC1G17DCKR	296-13173-2-ND	Single Schmitt-Trigger Buffer	SC-70-5	546.00/3,000		
SN74AUC1G17YEAR	296-13728-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.64	.48	.36
SN74AUC1G17YEAR	296-13728-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	624.00/3,000		
SN74AUC1G17YZAR	296-14017-1-ND	Single Schmitt-Trigger Buffer *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1G17YZAR	296-14017-2-ND	Single Schmitt-Trigger Buffer *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC1G32DBVR	296-12655-1-ND	Single 2-Input Pos. OR Gate	SOT-23-5	.56	.42	.32
SN74AUC1G32DBVR	296-12655-2-ND	Single 2-Input Pos. OR Gate	SOT-23-5	546.00/3,000		
SN74AUC1G32DCKR	296-12656-1-ND	Single 2-Input Pos. OR Gate	SC70-5	.56	.42	.32
SN74AUC1G32DCKR	296-12656-2-ND	Single 2-Input Pos. OR Gate	SC70-5	546.00/3,000		
SN74AUC1G32YEAR	296-13729-1-ND	Single 2-Input Pos. OR Gate	5-DSBGA	.64	.48	.36
SN74AUC1G32YEAR	296-13729-2-ND	Single 2-Input Pos. OR Gate	5-DSBGA	624.00/3,000		
SN74AUC1G32YZAR	296-14018-1-ND	Single 2-Input Pos. OR Gate *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1G32YZAR	296-14018-2-ND	Single 2-Input Pos. OR Gate *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC1G79DCKR	296-14309-1-ND	Single D-Type Flip-Flop *NEW!*	SC70-5	.72	.54	.41
SN74AUC1G79DCKR	296-14309-2-ND	Single D-Type Flip-Flop *NEW!*	SC70-5	702.00/3,000		
SN74AUC1G79YEAR	296-14351-1-ND	Single D-Type Flip-Flop *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1G79YEAR	296-14351-2-ND	Single D-Type Flip-Flop *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC1G80DCKR	296-14310-1-ND	Single D-Type Flip-Flop *NEW!*	SC70-5	.72	.54	.41
SN74AUC1G80DCKR	296-14310-2-ND	Single D-Type Flip-Flop *NEW!*	SC70-5	702.00/3,000		
SN74AUC1G80YEAR	296-14352-1-ND	Single D-Type Flip-Flop *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1G80YEAR	296-14352-2-ND	Single D-Type Flip-Flop *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC1G125DBVR	296-12657-1-ND	Tri-State Bus Buffer Gate	SOT-23-5	.56	.42	.32
SN74AUC1G125DBVR	296-12657-2-ND	Tri-State Bus Buffer Gate	SOT-23-5	546.00/3,000		
SN74AUC1G125DCKR	296-12658-1-ND	Tri-State Bus Buffer Gate	SC70-5	.56	.42	.32
SN74AUC1G125DCKR	296-12658-2-ND	Tri-State Bus Buffer Gate	SC70-5	546.00/3,000		
SN74AUC1G126DBVR	296-12659-1-ND	Tri-State Bus Buffer Gate	SOT-23-5	.56	.42	.32
SN74AUC1G126DBVR	296-12659-2-ND	Tri-State Bus Buffer Gate	SOT-23-5	546.00/3,000		
SN74AUC1G126DCKR	296-12660-1-ND	Tri-State Bus Buffer Gate	SC70-5	.56	.42	.32
SN74AUC1G126DCKR	296-12660-2-ND	Tri-State Bus Buffer Gate	SC70-5	546.00/3,000		
SN74AUC1G240DBVR	296-12661-1-ND	Tri-State Buffer/Driver Gate	SOT-23-5	.56	.42	.32
SN74AUC1G240DBVR	296-12661-2-ND	Tri-State Buffer/Driver Gate	SOT-23-5	546.00/3,000		
SN74AUC1G240DCKR	296-12662-1-ND	Tri-State Buffer/Driver Gate	SC70-5	.56	.42	.32
SN74AUC1G240DCKR	296-12662-2-ND	Tri-State Buffer/Driver Gate	SC70-5	546.00/3,000		
SN74AUC1GU04DBVR	296-13174-1-ND	Single Inverter Gate	SOT-23-5	.56	.42	.32
SN74AUC1GU04DBVR	296-13174-2-ND	Single Inverter Gate	SOT-23-5	546.00/3,000		
SN74AUC1GU04DCKR	296-13175-1-ND	Single Inverter Gate	SC-70-5	.56	.42	.32
SN74AUC1GU04DCKR	296-13175-2-ND	Single Inverter Gate	SC-70-5	546.00/3,000		
SN74AUC1GU04YEAR	296-14019-1-ND	Single Inverter Gate *NEW!*	5-DSBGA	.64	.48	.36
SN74AUC1GU04YEAR	296-14019-2-ND	Single Inverter Gate *NEW!*	5-DSBGA	624.00/3,000		
SN74AUC32245GKER	296-13610-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2.81	2.25	1.75
SN74AUC32245GKER	296-13610-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	1594.00/1,000		

AVC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AVC16244DGGR	296-9783-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	3.60	2.88	2.24
SN74AVC16244DGGR	296-9783-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	4080.00/2,000		
SN74AVC16244DGVR	296-9784-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	3.60	2.88	2.24
SN74AVC16244DGVR	296-9784-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	4080.00/2,000		
SN74AVC16244GQLR	296-9785-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	3.96	3.17	2.47
SN74AVC16244GQLR	296-9785-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	2244.00/1,000		
SN74AVC16245DGGR	296-12334-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3.60	2.88	2.24
SN74AVC16245DGGR	296-12334-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4080.00/2,000		
SN74AVC16245DGVR	296-9786-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3.60	2.88	2.24
SN74AVC16245DGVR	296-9786-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	4080.00/2,000		
SN74AVC16269DGGR	296-9787-1-ND	Tri-St. 12-24 Bit Reg Bus Exchanger	56-TSSOP	4.46	3.57	2.78
SN74AVC16269DGGR	296-9787-2-ND	Tri-St. 12-24 Bit Reg Bus Exchanger	56-TSSOP	5050.00/2,000		
SN74AVC16269DGVR	296-9788-1-ND	Tri-St. 12-24 Bit Reg Bus Exchanger	56-TVSOP	4.46	3.57	2.78
SN74AVC16269DGVR	296-9788-2-ND	Tri-St. 12-24 Bit Reg Bus Exchanger	56-TVSOP	5050.00/2,000		
SN74AVC16334DGGR	296-9789-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	3.60	2.88	2.24
SN74AVC16334DGGR	296-9789-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4080.00/2,000		
SN74AVC16334DGVR	296-9790-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	3.60	2.88	2.24
SN74AVC16334DGVR	296-9790-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4080.00/2,000		
SN74AVC16373DGGR	296-9791-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	3.60	2.88	2.24
SN74AVC16373DGGR	296-9791-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	4080.00/2,000		
SN74AVC16373DGVR	296-9792-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TVSOP	3.60	2.88	2.24
SN74AVC16373DGVR	296-9792-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TVSOP	4080.00/2,000		
SN74AVC16373GQLR	296-9793-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-BGA	3.96	3.17	2.47
SN74AVC16373GQLR	296-9793-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-BGA	2244.00/1,000		
SN74AVC16374DGGR	296-9794-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	3.60	2.88	2.24
SN74AVC16374DGGR	296-9794-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	4080.00/2,000		
SN74AVC16374DGVR	296-9795-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	3.60	2.88	2.24
SN74AVC16374DGVR	296-9795-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	4080.00/2,000		
SN74AVC16374GQLR	296-9796-1-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	3.96	3.17	2.47
SN74AVC16374GQLR	296-9796-2-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	2244.00/1,000		
SN74AVC16646DGGR	296-9797-1-ND	Tri-State 16-Bit Bus Xcvr./Register	56-TSSOP	3.38	2.70	2.10
SN74AVC16646DGGR	296-9797-2-ND	Tri-State 16-Bit Bus Xcvr./Register	56-TSSOP	3826.00/2,000		
SN74AVC16646DGVR	296-9798-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SOP	3.38	2.70	2.10
SN74AVC16646DGVR	296-9798-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SOP	3826.00/2,000		
SN74AVC16722DGGR	296-9799-1-ND	Tri-State 22-Bit Flip-Flop	64-TSSOP	4.19	3.35	2.61
SN74AVC16722DGGR	296-9799-2-ND	Tri-State 22-Bit Flip-Flop	64-TSSOP	4744.00/2,000		
SN74AVC16827DGGR	296-9800-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	3.38	2.70	2.10
SN74AVC16827DGGR	296-9800-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	3826.00/2,000		
SN74AVC16827DGVR	296-9801-1-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	3.38	2.70	2.10
SN74AVC16827DGVR	296-9801-2-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	3826.00/2,000		
SN74AVC16834DGGR	296-9802-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2.48	1.98	1.54
SN74AVC16834DGGR	296-9802-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2806.00/2,000		
SN74AVC16834DGVR	296-9803-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2.48	1.98	1.54
SN74AVC16834DGVR	296-9803-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2806.00/2,000		
SN74AVC16835DGGR	296-9804-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2.48	1.98	1.54
SN74AVC16835DGGR	296-9804-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2806.00/2,000		
SN74AVC16835DGVR	296-9805-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2.48	1.98	1.54
SN74AVC16835DGVR	296-9805-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2806.00/2,000		
SN74AVCAH164245VR	296-14063-1-ND	Tri-St. 16-Bit Bus Transceiver *NEW!*	48-TVSOP	3.60	2.88	2.24
SN74AVCAH164245VR	296-14063-2-ND	Tri-St. 16-Bit Bus Transceiver *NEW!*	48-TVSOP	4080.00/2,000		
SN74AVCBH164245GR	296-14002-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver *NEW!*	48-TSSOP	3.60	2.88	2.24
SN74AVCBH164245GR	296-14002-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver *NEW!*	48-TSSOP	4080.00/2,000		

BCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN64BCT125AD	296-9690-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	1.63	1.30	.98
SN64BCT757DW	296-9692-5-ND	Octal Buffer/Driver	20-SOP	2.70	2.16	1.68
SN64BCT25244NT	296-9691-5-ND	Tri-St. Octal Bus Buffer/Driver	24-Dip	5.40	4.32	3.36
SN74BCT244DWR	296-1152-1-ND	Octal Buffer/Driver	20-SOIC	2.30	1.84	1.38
SN74BCT244DWR	296-1152-2-ND	Octal Buffer/Driver	20-SOIC	2392.00/2,000		
SN74BCT245DWR	296-1154-1-ND	Octal Bus Transceiver	20-SOIC	2.43	1.94	1.46
SN74BCT245DWR	296-1154-2-ND	Octal Bus Transceiver	20-SOIC	2522.00/2,000		
SN74BCT374NSR	296-13177-1-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOP	2.25	1.80	1.35
SN74BCT374NSR	296-13177-2-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOP	2340.00/2,000		
SN74BCT543DW	296-12335-5-ND	Octal Registered Transceiver with Tri-State Output	24-SOIC	5.06	4.05	3.15
SN74BCT623NSR	296-13178-1-ND	Tri-State Octal Bus Transceiver	20-SOP	2.81	2.25	1.75
SN74BCT623NSR	296-13178-2-ND	Tri-State Octal Bus Transceiver	20-SOP	3188.00/2,000		
SN74BCT640NSR	296-13179-1-ND	Tri-State Octal Bus Transceiver	20-SOP	2.81	2.25	1.75
SN74BCT640NSR	296-13179-2-ND	Tri-State Octal Bus Transceiver	20-SOP	3188.00/2,000		
SN74BCT652DWR	296-1155-1-ND	Octal Bus Transceiver	24-SOIC	6.04	4.84	4.08
SN74BCT652DWR	296-1155-2-ND	Octal Bus Transceiver	24-SOIC	7550.00/2,000		
SN74BCT2414DW	296-13176-5-ND	Memory Decoder with On-Chip Supply Voltage Monitor	20-SOP	2.70	2.16	1.68

Bus Switch Family (CBT)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT1G125DBVR	296-1164-1-ND	Single FET Bus Switch	5-TSSOP	.46	.37	.26
SN74CBT1G125DBVR	296-1164-2-ND	Single FET Bus Switch	5-SOP	357.00/3,000		
SN74CBT1G125DCKR	296-6410-1-ND	Single FET Bus Switch	SC70-5	.46	.37	.26
SN74CBT1G125DCKR	296-6410-2-ND	Single FET Bus Switch	SC70-5	357.00/3,000		
SN74CBT1G384DBVR	296-6411-1-ND	Single FET Bus Switch	SOT-23-5	.46	.37	.26
SN74CBT1G384DBVR	296-6411-2-ND	Single FET Bus Switch	SOT-23-5	357.00/3,000		
SN74CBT1G384DCKR	296-6412-1-ND	Single FET Bus Switch	SC70-5	.46	.37	.26
SN74CBT1G384DCKR	296-6412-2-ND	Single FET Bus Switch	SC70-5	357.00/3,000		
SN74CBT34X245DBBR	296-13180-1-ND	32-Bit FET Bus Switch	80-TVSOP	2.48	1.98	1.54
SN74CBT34X245DBBR	296-13180-2-ND	32-Bit FET Bus Switch	80-TVSOP	2806.00/2,000		
SN74CBT3125D	296-1165-5-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3125DR	296-1165-1-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3125DR	296-1165-2-ND	Quad FET Bus Switch	14-SOIC	455.00/2,500		
SN74CBT3125DBQR	296-6413-1-ND	Quad FET Bus Switch	16-SSOP	.56	.42	.32
SN74CBT3125DBQR	296-6413-2-ND	Quad FET Bus Switch	16-SSOP	455.00/2,500		
SN74CBT3125DBR	296-6414-1-ND	Quad FET Bus Switch	14-SSOP	.56	.42	.32
SN74CBT3125DBR	296-6414-2-ND	Quad FET Bus Switch	14-SSOP	372.00/2,000		
SN74CBT3125DGVR	296-6415-1-ND	Quad FET Bus Switch	14-TVSOP	.56	.42	.32
SN74CBT3125DGVR	296-6415-2-ND	Quad FET Bus Switch	14-TVSOP	372.00/2,000		
SN74CBT3125PWR	296-6416-1-ND	Quad FET Bus Switch	14-TSSOP	.56	.42	.32

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT3125PWR	296-6416-2-ND	Quad FET Bus Switch	14-TSSOP	372.00/2,000		
SN74CBT3125RGYR	296-13920-1-ND	Quad FET Bus Switch *NEW!*	14-QFN	.56	.42	.32
SN74CBT3125RGYR	296-13920-2-ND	Quad FET Bus Switch *NEW!*	14-QFN	186.00/1,000		
SN74CBT3126D	296-1537-5-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3126DR	296-1537-1-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3126DR	296-1537-2-ND	Quad FET Bus Switch	14-SOIC	455.00/2,500		
SN74CBT3126DBQR	296-6417-1-ND	Quad FET Bus Switch	16-SSOP	.56	.42	.32
SN74CBT3126DBQR	296-6417-2-ND	Quad FET Bus Switch	16-SSOP	455.00/2,500		
SN74CBT3126DBR	296-6418-1-ND	Quad FET Bus Switch	14-SSOP	.56	.42	.32
SN74CBT3126DBR	296-6418-2-ND	Quad FET Bus Switch	14-SSOP	372.00/2,000		
SN74CBT3126DGVR	296-6419-1-ND	Quad FET Bus Switch	14-TVSOP	.56	.42	.32
SN74CBT3126DGVR	296-6419-2-ND	Quad FET Bus Switch	14-TVSOP	372.00/2,000		
SN74CBT3126PWR	296-6420-1-ND	Quad FET Bus Switch	14-TSSOP	.56	.42	.32
SN74CBT3126PWR	296-6420-2-ND	Quad FET Bus Switch	14-TSSOP	372.00/2,000		
SN74CBT3126RGYR	296-13921-1-ND	Quad FET Bus Switch *NEW!*	14-QFN	.56	.42	.32
SN74CBT3126RGYR	296-13921-2-ND	Quad FET Bus Switch *NEW!*	14-QFN	186.00/1,000		
SN74CBT3244DBQR	296-6421-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3244DBQR	296-6421-2-ND	Octal FET Bus Switch	20-SSOP	455.00/2,500		
SN74CBT3244DBR	296-6422-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3244DBR	296-6422-2-ND	Octal FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3244DGVR	296-6423-1-ND	Octal FET Bus Switch	20-TVSOP	.56	.42	.32
SN74CBT3244DGVR	296-6423-2-ND	Octal FET Bus Switch	20-TVSOP	372.00/2,000		
SN74CBT3244DW	296-1538-5-ND	Octal FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT3244GQNR	296-12089-1-ND	Octal FET Bus Switch	20-BGA	.64	.48	.36
SN74CBT3244GQNR	296-12089-2-ND	Octal FET Bus Switch	20-BGA	213.00/1,000		
SN74CBT3244PWR	296-1166-1-ND	Octal FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3244PWR	296-1166-2-ND	Octal FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3244RGYR	296-13922-1-ND	Octal FET Bus Switch *NEW!*	20-QFN	.64	.48	.36
SN74CBT3244RGYR	296-13922-2-ND	Octal FET Bus Switch *NEW!*	20-QFN	213.00/1,000		
SN74CBT3245ADBQR	296-6424-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3245ADBQR	296-6424-2-ND	Octal FET Bus Switch	20-SSOP	455.00/2,500		
SN74CBT3245ADBR	296-6425-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3245ADBR	296-6425-2-ND	Octal FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3245ADGVR	296-6460-1-ND	Octal FET Bus Switch	20-TVSOP	.56	.42	.32
SN74CBT3245ADGVR	296-6460-2-ND	Octal FET Bus Switch	20-TVSOP	372.00/2,000		
SN74CBT3245ADW	296-6426-5-ND	Octal FET Bus Switch	20-SOP	.56	.42	.32
SN74CBT3245AGQNR	296-12090-1-ND	Octal FET Bus Switch	20-BGA	.56	.42	.32
SN74CBT3245AGQNR	296-12090-2-ND	Octal FET Bus Switch	20-BGA	186.00/1,000		
SN74CBT3245APWR	296-6427-1-ND	Octal FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3245APWR	296-6427-2-ND	Octal FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3245ARGYR	296-13923-1-ND	Octal FET Bus Switch *NEW!*	20-QFN	.64	.48	.36
SN74CBT3245ARGYR	296-13923-2-ND	Octal FET Bus Switch *NEW!*	20-QFN	213.00/1,000		
SN74CBT3251D	296-6428-5-ND	1-of-8 FET Mux/Demux	16-SOP	.56	.42	.32
SN74CBT3251DBQR	296-6429-1-ND	1-of-8 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3251DBQR	296-6429-2-ND	1-of-8 FET Mux/Demux	16-SSOP	455.00/2,500		
SN74CBT3251DBR	296-6430-1-ND	1-of-8 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3251DBR	296-6430-2-ND	1-of-8 FET Mux/Demux	16-SSOP	372.00/2,000		
SN74CBT3251PWR	296-6431-1-ND	1-of-8 FET Mux/Demux	16-TSSOP	.56	.42	.32
SN74CBT3251PWR	296-6431-2-ND	1-of-8 FET Mux/Demux	16-TSSOP	372.00/2,000		
SN74CBT3251RGYR	296-13924-1-ND	1-of-8 FET Mux/Demux *NEW!*	16-QFN	.56	.42	.32
SN74CBT3251RGYR	296-13924-2-ND	1-of-8 FET Mux/Demux *NEW!*	16-QFN	186.00/1,000		
SN74CBT3253D	296-6432-5-ND	Dual 1-of-4 FET Mux/Demux	16-SOP	.56	.42	.32
SN74CBT3253DBQR	296-6433-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3253DBQR	296-6433-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	455.00/2,500		
SN74CBT3253DBR	296-6434-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3253DBR	296-6434-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	372.00/2,000		
SN74CBT3253PWR	296-1167-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.56	.42	.32
SN74CBT3253PWR	296-1167-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	372.00/2,000		
SN74CBT3253RGYR	296-13925-1-ND	Dual 1-of-4 FET Mux/Demux *NEW!*	16-QFN	.64	.48	.36
SN74CBT3253RGYR	296-13925-2-ND	Dual 1-of-4 FET Mux/Demux *NEW!*	16-QFN	213.00/1,000		
SN74CBT3257D	296-1168-5-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.56	.42	.32
SN74CBT3257DR	296-1168-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.56	.42	.32
SN74CBT3257DR	296-1168-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	455.00/2,500		
SN74CBT3257DBQR	296-6435-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3257DBQR	296-6435-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	455.00/2,500		
SN74CBT3257DBR	296-6436-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3257DBR	296-6436-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	372.00/2,000		
SN74CBT3257PWR	296-6437-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.56	.42	.32
SN74CBT3257PWR	296-6437-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	372.00/2,000		
SN74CBT3257RGYR	296-13926-1-ND	4-Bit, 1-of-2 FET Mux/Demux *NEW!*	16-QFN	.56	.42	.32
SN74CBT3257RGYR	296-13926-2-ND	4-Bit, 1-of-2 FET Mux/Demux *NEW!*	16-QFN	186.00/1,000		
SN74CBT3306D	296-1540-5-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3306DR	296-1540-1-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3306DR	296-1540-2-ND	Dual FET Bus Switch	8-SOIC	455.00/2,500		
SN74CBT3306PWR	296-6438-1-ND	Dual FET Bus Switch	8-TSSOP	.56	.42	.32
SN74CBT3306PWR	296-6438-2-ND	Dual FET Bus Switch	8-TSSOP	372.00/2,000		
SN74CBT3345DBR	296-6439-1-ND	8-Bit, FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3345DBR	296-6439-2-ND	8-Bit, FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3345DGVR	296-6440-1-ND	8-Bit, FET Bus Switch	20-TVSOP	.56	.42	.32
SN74CBT3345DGVR	296-6440-2-ND	8-Bit, FET Bus Switch	20-TVSOP	372.00/2,000		
SN74CBT3345DW	296-6441-5-ND	8-Bit, FET Bus Switch	20-SOP	.56	.42	.32
SN74CBT3345PWR	296-6442-1-ND	8-Bit, FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3345PWR	296-6442-2-ND	8-Bit, FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3383DBQR	296-6443-1-ND	10-Bit, FET Bus-Exchange Switch	24-SSOP	.56	.42	.32
SN74CBT3383DBQR	296-6443-2-ND	10-Bit, FET Bus-Exchange Switch	24-SSOP	455.00/2,500		
SN74CBT3383DBR	296-6444-1-ND	10-Bit, FET Bus-Exchange Switch	24-SSOP	.56	.42	.32
SN74CBT3383DBR	296-6444-2-ND	10-Bit, FET Bus-Exchange Switch	24-SSOP	372.00/2,000		
SN74CBT3383DW	296-6445-5-ND	10-Bit, FET Bus-Exchange Switch	24-SOIC	.56	.42	.32
SN74CBT3383PWR	296-6446-1-ND	10-Bit, FET Bus-Exchange Switch	24-TSSOP	.56	.42	.32
SN74CBT3383PWR	296-6446-2-ND	10-Bit, FET Bus-Exchange Switch	24-TSSOP	372.00/2,000		
SN74CBT3384ADBQR	296-6447-1-ND	10-Bit, FET Bus Switch	24-SSOP	.56	.42	.32
SN74CBT3384ADBQR	296-6447-2-ND	10-Bit, FET Bus Switch	24-SSOP	455.00/2,500		
SN74CBT3384ADBR	296-6448-1-ND	10-Bit, FET Bus Switch	24-SSOP	.56	.42	.32
SN74CBT3384ADBR	296-6448-2-ND	10-Bit, FET Bus Switch	24-SSOP	372.00/2,000		
SN74CBT3384ADGVR	296-6449-1-ND	10-Bit, FET Bus Switch	24-TVSOP	.56	.42	.32
SN74CBT3384ADGVR	296-6449-2-ND	10-Bit, FET Bus Switch	24-TVSOP	372.00/2,000		
SN74CBT3384ADW	296-1169-5-ND	10-Bit, FET Bus Switch	24-SOIC	.56	.42	.32
SN74CBT3384ADWR	296-1169-1-ND	10-Bit, FET Bus Switch	24-SOIC	.56	.42	.32
SN74CBT3384ADWR	296-1169-2-ND	10-Bit, FET Bus Switch	24-SOIC	372.00/2,000		
SN74CBT3384APWR	296-1170-1-ND	10-Bit, FET Bus Switch	24-TSSOP	.56	.42	.32
SN74CBT3384APWR	296-1170-2-ND	10-Bit, FET Bus Switch	24-TSSOP	372.00/2,000		
SN74CBT3861DBQR	296-6450-1-ND	10-Bit, FET Bus Switch	24-SSOP	1.38	1.10	.83
SN74CBT3861DBQR	296-6450-2-ND	10-Bit, FET Bus Switch	24-SSOP	1760.00/2,500		
SN74CBT3861DGVR	296-6451-1-ND	10-Bit, FET Bus Switch	24-TVSOP	1.38	1.10	.83
SN74CBT3861DGVR	296-6451-2-ND	10-Bit, FET Bus Switch	24-TVSOP	1430.00/2,000		
SN74CBT3861DWR	296-6452-1-ND	10-Bit, FET Bus Switch	24-SOIC	1.38	1.10	.83
SN74CBT3861DWR	296-6452-2-ND	10-Bit, FET Bus Switch	24-SOIC	1430.00/2,000		
SN74CBT3861PWR	296-6453-1-ND	10-Bit, FET Bus Switch	24-TSSOP	1.38	1.10	.83
SN74CBT3861PWR	296-6453-2-ND	10-Bit, FET Bus Switch	24-TSSOP	1430.00/2,000		
SN74CBT6800ADBQR	296-6454-1-ND	10-Bit, FET Bus Switch with Precharged Output	24-SSOP	1.63	1.30	.98
SN74CBT6800ADBQR	296-6454-2-ND	10-Bit, FET Bus Switch with Precharged Output	24-SSOP	2080.00/2,500		
SN74CBT6800ADBR	296-6455-1-ND	10-Bit, FET Bus Switch with Precharged Output	24-SSOP	1.63	1.30	.98
SN74CBT6800ADBR	296-6455-2-ND	10-Bit, FET Bus Switch with Precharged Output	24-SSOP	1690.00/2,000		
SN74CBT6800ADW	296-6457-5-ND	10-Bit, FET Bus Switch with Precharged Output	24-SOIC	1.63	1.30	.98
SN74CBT6800ADWR	296-6457-1-ND	10-Bit, FET Bus Switch with Precharged Output	24-SOIC	1.63	1.30	.98
SN74CBT6800ADWR	296-6457-2-ND	10-Bit, FET Bus Switch with Precharged Output	24-SOIC	1690.00/2,000		
SN74CBT6800APWR	296-6458-1-ND	10-Bit, FET Bus Switch with Precharged Output	24-TSSOP	1.63	1.30	.98
SN74CBT6800APWR	296-6458-2-ND	10-Bit, FET Bus Switch with Precharged Output	24-TSSOP	1690.00/2,000		
SN74CBT16209ADGGR	296-1156-1-ND	18-Bit, FET Bus-Exchange Switch	48-TSSOP	1.35	1.13	.90
SN74CBT16209ADGGR	296-1156-2-ND	18-Bit, FET Bus-Exchange Switch	48-TSSOP	1198.00/2,000		
SN74CBT16209ADGVR	296-6385-1-ND	18-Bit, FET Bus-Exchange Switch	48-TVSOP	1.35	1.13	.90
SN74CBT16209ADGVR	296-6385-2-ND	18-Bit, FET Bus-Exchange Switch	48-TVSOP	1198.00/2,000		
SN74CBT16209ADL	296-1531-5-ND	18-Bit, FET Bus-Exchange Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210DGGR	296-6386-1-ND	20-Bit, FET Bus Switch	48-TSSOP	1.35	1.13	.90
SN74CBT16210DGGR	296-6386-2-ND	20-Bit, FET Bus Switch	48-TSSOP	1198.00/2,000		
SN74CBT16210DGVR	296-6387-1-ND	20-Bit, FET Bus Switch	48-TVSOP	1.35	1.13	.90
SN74CBT16210DGVR	296-6387-2-ND	20-Bit, FET Bus Switch	48-TVSOP	1198.00/2,000		
SN74CBT16210DL	296-6388-5-ND	20-Bit, FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210DLR	296-6388-1-ND	20-Bit, FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210DLR	296-6388-2-ND	20-Bit, FET Bus Switch	48-SSOP	599.00/1,000		
SN74CBT16211ADGGR	296-1157-1-ND	24-Bit, FET Bus Switch	56-TSSOP	1.35	1.13	.90
SN74CBT16211ADGGR	296-1157-2-ND	24-Bit, FET Bus Switch	56-TSSOP	1198.00/2,000		
SN74CBT16211ADGVR	296-6389-1-ND	24-Bit, FET Bus Switch	56-TVSOP	1.35	1.13	.90
SN74CBT16211ADGVR	296-6389-2-ND	24-Bit, FET Bus Switch	56-TVSOP	1198.00/2,000		
SN74CBT16211ADL	296-1532-5-ND	24-Bit, FET Bus Switch	56-SSOP	1.35	1.13	.90
SN74CBT16211ADLR	296-1532-1-ND	24-Bit, FET Bus Switch	56-SSOP	1.35	1.13	.90
SN74CBT16211ADLR	296-1532-2-ND	24-Bit, FET Bus Switch	56-SSOP	599.00/1,000		
SN74CBT16211AGQLR	296-9806-1-ND	24-Bit FET Bus Switch	56-VFBGA	1.25	1.00	.75
SN74CBT16211AGQLR	296-9806-2-ND	24-Bit FET Bus Switch	56-VFBGA	650.00/1,000		
SN74CBT16212ADGGR	296-1158-1-ND	24-Bit, FET Bus-Exchange Switch	56-TSSOP	1.35	1.13	.90
SN74CBT16212ADGGR	296-1158-2-ND	24-Bit, FET Bus-Exchange Switch	56-TSSOP	1198.00/2,000		
SN74CBT16212ADGVR	296-6390-1-ND	24-Bit, FET Bus-Exchange Switch	56-TVSOP	1.35	1.13	.90
SN74CBT16212ADGVR	296-6390-2-ND	24-Bit, FET Bus-Exchange Switch	56-TVSOP	1198.00/2,000		
SN74CBT16212ADLR	296-1159-1-ND	24-Bit, FET Bus-Exchange Switch	56-SSOP	1.35	1.13	.90
SN74CBT16212ADLR	296-1159-2-ND	24-Bit, FET Bus-Exchange Switch	56-TSSOP	599.00/1,000		
SN74CBT16212AGQLR	296-9807-1-ND	24-Bit Bus Exchange Switch	56-VFBGA	1.25	1.00	.75
SN74CBT16212AGQLR	296-9807-2-ND	24-Bit Bus Exchange Switch	56-VFBGA	650.00/1,000		
SN74CBT16213DGGR	296-6391-1-ND	24-Bit, FET Bus-Exchange Switch	56-TSSOP	1.35	1.13	.90
SN74CBT16213DGGR	296-6391-2-ND	24-Bit, FET Bus-Exchange Switch	56-TSSOP	1198.00/2,000		
SN74CBT16213DL	296-6392-5-ND	24-Bit, FET Bus-Exchange Switch	56-SSOP	1.35	1.13	.90
SN74CBT16214DGGR	296-6393-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1.35	1.13	.90
SN74CBT16214DGGR	296-6393-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1198.00/2,000		
SN74CBT16214DL	296-6394-5-ND	12-Bit, 1-of-3 FET Mux/Demux	56-SSOP	1.35	1.13	.90
SN74CBT16232DGGR	296-6395-1-ND	Synchronous 16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1.35	1.13	.90
SN74CBT16232DGGR	296-6395-2-ND	Synchronous 16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1198.00/2,000		
SN74CBT16232DLR	296-6396-1-ND	Synchronous 16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1.35	1.13	.90
SN74CBT16232DLR	296-6396-2-ND	Synchronous 16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	599.00/1,000		
SN74CBT16233DGGR	296-1161-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1.35	1.13	.90
SN74CBT16233DGGR	296-1161-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1198.00/2,000		
SN74CBT16233DGVR	296-6397-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	1.35	1.13	.90
SN74CBT16233DGVR	296-6397-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	1198.00/2,000		
SN74CBT16233DL	296-6398-5-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1.35	1.13	.90
SN74CBT16233DLR	296-6398-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1.35	1.13	.90
SN74CBT16233DLR	296-6398-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	599.00/1,000		
SN74CBT16244DGGR	296-6399-1-ND	16-Bit, FET Bus Switch	48-TSSOP	1.35	1.13	.90
SN74CBT16244DGGR	296-6399-2-ND	16-Bit, FET Bus Switch	48-TSSOP	1198.00/2,000		
SN74CBT16244DGVR	296-6400-1-ND	16-Bit, FET Bus Switch	48-TVSOP	1.35	1.13	.90
SN74CBT16244DGVR	296-6400-2-ND	16-Bit, FET Bus Switch	48-TVSOP	1198.00/2,000		
SN74CBT16244DLR	296-6401-1-ND	16-Bit, FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16244DLR	296-6401-2-ND	16-Bit, FET Bus Switch	48-SSOP	599.00/1,000		
SN74CBT16245DGGR	296-6402-1-ND	16-Bit, FET Bus Switch	48-TSSOP	1.35	1.13	.90
SN74CBT16245DGGR	296-6402-2-ND	16-Bit, FET Bus Switch	48-TSSOP	1198.00/2,000		
SN74CBT16245DGVR	296-6403-1-ND	16-Bit, FET Bus Switch	48-TVSOP	1.35	1.13	.90
SN74CBT16245DGVR	296-6403-2-ND	16-Bit, FET Bus Switch	48-TVSOP	1198.00/2,000		
SN74CBT16245DLR	296-6404-1-ND	16-Bit, FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16245DLR	296-6404-2-ND	16-Bit, FET Bus Switch	48-SSOP	599.00/1,000		
SN74CBT16292DGGR	296-1162-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	1.25	1.00	.75
SN74CBT16292DGGR	296-1162-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	1300.00/2,000		
SN74CBT16292DGVR	296-6405-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	1.25	1.00	.75
SN74CBT16292DGVR	296-6405-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	1300.00/2,000		
SN74CBT16292DL	296-1534-5-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1.25	1.00	.75
SN74CBT16292DLR	296-1534-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1.25	1.00	.75
SN74CBT16292DLR	296-1534-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	650.00/1,000		
SN74CBT16390DGGR	296-1163-1-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TSSOP	5.18	4.14	3.22
SN74CBT16390DGGR	296-1163-2-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TSSOP	5866.00/2,000		
SN74CBT16390DGVR	296-6406-1-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TVSOP	5.18	4.14	3.22

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT16390DGVR	296-6406-2-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TVSOP	5866.00/2,000		
SN74CBT16390DL	296-1535-5-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-SSOP	5.18	4.14	3.22
SN74CBT16861DGGR	296-6407-1-ND	20-Bit, FET Bus Switch	48-TSSOP	2.48	1.98	1.54
SN74CBT16861DGGR	296-6407-2-ND	20-Bit, FET Bus Switch	48-TSSOP	2806.00/2,000		
SN74CBT16861DGVR	296-6408-1-ND	20-Bit, FET Bus Switch	48-TVSOP	2.48	1.98	1.54
SN74CBT16861DGVR	296-6408-2-ND	20-Bit, FET Bus Switch	48-TVSOP	2806.00/2,000		
SN74CBT16861DLR	296-6409-1-ND	20-Bit, FET Bus Switch	48-SSOP	2.48	1.98	1.54
SN74CBT16861DLR	296-6409-2-ND	20-Bit, FET Bus Switch	48-SSOP	1403.00/1,000		
SN74CBT162292DGGR	296-1160-1-ND	12-Bit, 1-of-2 FET Mux/Demux w/Internal Pulldown Resistor	56-TSSOP	2.70	2.16	1.68
SN74CBT162292DGGR	296-1160-2-ND	12-Bit, 1-of-2 FET Mux/Demux w/Internal Pulldown Resistor	56-TSSOP	3060.00/2,000		
SN74CBT162292DGVR	296-12881-1-ND	12-Bit, 1-of-2 FET Mux/Demux w/Internal Pulldown Resistor	56-TVSOP	2.70	2.16	1.68
SN74CBT162292DGVR	296-12881-2-ND	12-Bit, 1-of-2 FET Mux/Demux w/Internal Pulldown Resistor	56-TVSOP	3060.00/2,000		
SN74CBT162292DL	296-1533-5-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	2.70	2.16	1.68
SN74CBTD1G125DBVR	296-12211-1-ND	Single FET Bus Switch with Level Shifting	SOT-23-5	.45	.36	.27
SN74CBTD1G125DBVR	296-12211-2-ND	Single FET Bus Switch with Level Shifting	SOT-23-5	366.00/3,000		
SN74CBTD1G125DCKR	296-6476-1-ND	Single FET Bus Switch with Level Shifting	SC70-5	.45	.36	.27
SN74CBTD1G125DCKR	296-6476-2-ND	Single FET Bus Switch with Level Shifting	SC70-5	366.00/3,000		
SN74CBTD1G384DBVR	296-12415-1-ND	Single FET Bus Switch with Level Shifting	SOT-23-5	.45	.36	.27
SN74CBTD1G384DBVR	296-12415-2-ND	Single FET Bus Switch with Level Shifting	SOT-23-5	366.00/3,000		
SN74CBTD1G384DCKR	296-12416-1-ND	Single FET Bus Switch with Level Shifting	SC70-5	.45	.36	.27
SN74CBTD1G384DCKR	296-12416-2-ND	Single FET Bus Switch with Level Shifting	SC70-5	366.00/3,000		
SN74CBTD3306D	296-6477-5-ND	Dual FET Bus Switch with Level Shifting	8-SOP	.56	.42	.32
SN74CBTD3306PWR	296-6478-1-ND	Dual FET Bus Switch w/Level Shifting	8-TSSOP	.56	.42	.32
SN74CBTD3306PWR	296-6478-2-ND	Dual FET Bus Switch w/Level Shifting	8-TSSOP	372.00/2,000		
SN74CBTD3384DBQR	296-6479-1-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SSOP	.56	.42	.32
SN74CBTD3384DBQR	296-6479-2-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SSOP	455.00/2,500		
SN74CBTD3384DBR	296-6480-1-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SSOP	.56	.42	.32
SN74CBTD3384DBR	296-6480-2-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SSOP	372.00/2,000		
SN74CBTD3384DGVR	296-6481-1-ND	10-Bit, FET Bus Switch with Level Shifting	24-TVSOP	.56	.42	.32
SN74CBTD3384DGVR	296-6481-2-ND	10-Bit, FET Bus Switch with Level Shifting	24-TVSOP	372.00/2,000		
SN74CBTD3384DW	296-6482-5-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SOIC	.56	.42	.32
SN74CBTD3384DWR	296-6482-1-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SOIC	.56	.42	.32
SN74CBTD3384DWR	296-6482-2-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SOIC	372.00/2,000		
SN74CBTD3384PWR	296-1173-1-ND	10-Bit, FET Bus Switch with Level Shifting	24-TSSOP	.56	.42	.32
SN74CBTD3384PWR	296-1173-2-ND	10-Bit, FET Bus Switch with Level Shifting	24-TSSOP	372.00/2,000		
SN74CBTD3861DBQR	296-6483-1-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SSOP	.56	.42	.32
SN74CBTD3861DBQR	296-6483-2-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SSOP	455.00/2,500		
SN74CBTD3861DBR	296-6484-1-ND	10-Bit, FET Bus Switch with Level Shifting	24-SSOP	.56	.42	.32
SN74CBTD3861DBR	296-6484-2-ND	10-Bit, FET Bus Switch with Level Shifting	24-SSOP	372.00/2,000		
SN74CBTD3861DGVR	296-6485-1-ND	10-Bit, FET Bus Switch with Level Shifting	24-TVSOP	.56	.42	.32
SN74CBTD3861DGVR	296-6485-2-ND	10-Bit, FET Bus Switch with Level Shifting	24-TVSOP	372.00/2,000		
SN74CBTD3861DW	296-6486-5-ND	10-Bit, FET Bus Switch w/Level Shifting	24-SOP	.56	.42	.32
SN74CBTD3861PWR	296-6487-1-ND	10-Bit, FET Bus Switch with Level Shifting	24-TSSOP	.56	.42	.32
SN74CBTD3861PWR	296-6487-2-ND	10-Bit, FET Bus Switch with Level Shifting	24-TSSOP	372.00/2,000		
SN74CBTD16210DGGR	296-1171-1-ND	20-Bit, FET Bus Switch with Level Shifting	48-TSSOP	2.48	1.98	1.54
SN74CBTD16210DGGR	296-1171-2-ND	20-Bit, FET Bus Switch with Level Shifting	48-TSSOP	2806.00/2,000		
SN74CBTD16210DGVR	296-6474-1-ND	20-Bit, FET Bus Switch with Level Shifting	48-TVSOP	2.48	1.98	1.54
SN74CBTD16210DGVR	296-6474-2-ND	20-Bit, FET Bus Switch with Level Shifting	48-TVSOP	2806.00/2,000		
SN74CBTD16210DL	296-1541-5-ND	20-Bit, FET Bus Switch w/Level Shifting	48-SSOP	2.48	1.98	1.54
SN74CBTD16210DLR	296-1541-1-ND	20-Bit, FET Bus Switch w/Level Shifting	48-SSOP	2.52	2.02	1.57
SN74CBTD16210DLR	296-1541-2-ND	20-Bit, FET Bus Switch w/Level Shifting	48-SSOP	1428.00/1,000		
SN74CBTD16211DGGR	296-1172-1-ND	24-Bit, FET Bus Switch with Level Shifting	56-TSSOP	2.70	2.16	1.68
SN74CBTD16211DGGR	296-1172-2-ND	24-Bit, FET Bus Switch with Level Shifting	56-TSSOP	3060.00/2,000		
SN74CBTD16211DGVR	296-6475-1-ND	24-Bit, FET Bus Switch with Level Shifting	56-TVSOP	2.70	2.16	1.68
SN74CBTD16211DGVR	296-6475-2-ND	24-Bit, FET Bus Switch with Level Shifting	56-TVSOP	3060.00/2,000		
SN74CBTD16211DL	296-1542-5-ND	24-Bit, FET Bus Switch w/Level Shifting	56-SSOP	2.70	2.16	1.68
SN74CBTH16211DGGR	296-6461-1-ND	24-Bit, FET Bus Switch with Bus Hold	56-TSSOP	2.70	2.16	1.68
SN74CBTH16211DGGR	296-6461-2-ND	24-Bit, FET Bus Switch with Bus Hold	56-TSSOP	3060.00/2,000		
SN74CBTH16211DL	296-1543-5-ND	24-Bit, FET Bus Switch with Bus Hold	56-SSOP	2.70	2.16	1.68
SN74CBTK6800DBQR	296-6492-1-ND	10-Bit, FET Bus Switch	24-SSOP	1.63	1.30	.98
SN74CBTK6800DBQR	296-6492-2-ND	10-Bit, FET Bus Switch	24-SSOP	2080.00/2,500		
SN74CBTK6800DGVR	296-6493-1-ND	10-Bit, FET Bus Switch	24-TVSOP	1.63	1.30	.98
SN74CBTK6800DGVR	296-6493-2-ND	10-Bit, FET Bus Switch	24-TVSOP	1690.00/2,000		
SN74CBTK6800DWR	296-6494-1-ND	10-Bit, FET Bus Switch	24-SOP	1.63	1.30	.98
SN74CBTK6800DWR	296-6494-2-ND	10-Bit, FET Bus Switch	24-SOP	1690.00/2,000		
SN74CBTK6800PWR	296-6495-1-ND	10-Bit, FET Bus Switch	24-TSSOP	1.63	1.30	.98
SN74CBTK6800PWR	296-6495-2-ND	10-Bit, FET Bus Switch	24-TSSOP	1690.00/2,000		
SN74CBTK16245DGGR	296-6488-1-ND	16-Bit, FET Bus Switch	48-TSSOP	3.15	2.52	1.96
SN74CBTK16245DGGR	296-6488-2-ND	16-Bit, FET Bus Switch	48-TSSOP	3570.00/2,000		
SN74CBTK16245DGVR	296-6489-1-ND	16-Bit, FET Bus Switch	48-TVSOP	3.15	2.52	1.96
SN74CBTK16245DGVR	296-6489-2-ND	16-Bit, FET Bus Switch	48-TVSOP	3570.00/2,000		
SN74CBTK16245DLR	296-6490-1-ND	16-Bit, FET Bus Switch	48-SSOP	3.15	2.52	1.96
SN74CBTK16245DLR	296-6490-2-ND	16-Bit, FET Bus Switch	48-SSOP	1785.00/1,000		
SN74CBTK32245GKER	296-6491-1-ND	32-Bit, FET Bus Switch	96-BGA	4.73	3.78	2.94
SN74CBTK32245GKER	296-6491-2-ND	32-Bit, FET Bus Switch	96-BGA	2678.00/1,000		
SN74CBTLV1G125DBVR	296-9109-1-ND	LV Single FET Bus Switch	SOT-23-5	.60	.45	.34
SN74CBTLV1G125DBVR	296-9109-2-ND	LV Single FET Bus Switch	SOT-23-5	585.00/3,000		
SN74CBTLV1G125DCKR	296-9110-1-ND	LV Single FET Bus Switch	SC70-5	.60	.45	.34
SN74CBTLV1G125DCKR	296-9110-2-ND	LV Single FET Bus Switch	SC70-5	585.00/3,000		
SN74CBTLV3125DBQR	296-9111-1-ND	Low Voltage Quad FET Bus Switch	16-SSOP	.88	.66	.50
SN74CBTLV3125DBQR	296-9111-2-ND	Low Voltage Quad FET Bus Switch	16-SSOP	715.00/2,500		
SN74CBTLV3125DGVR	296-9112-1-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	.88	.66	.50
SN74CBTLV3125DGVR	296-9112-2-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	586.00/2,000		
SN74CBTLV3125DR	296-9113-1-ND	Low Voltage Quad FET Bus Switch	14-SOP	.88	.66	.50
SN74CBTLV3125DR	296-9113-2-ND	Low Voltage Quad FET Bus Switch	14-SOP	715.00/2,500		
SN74CBTLV3125PWR	296-9114-1-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	.88	.66	.50
SN74CBTLV3125PWR	296-9114-2-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	586.00/2,000		
SN74CBTLV3126DBQR	296-9115-1-ND	Low Voltage Quad FET Bus Switch	16-SSOP	.88	.66	.50
SN74CBTLV3126DBQR	296-9115-2-ND	Low Voltage Quad FET Bus Switch	16-SSOP	715.00/2,500		
SN74CBTLV3126DGVR	296-9116-1-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	.88	.66	.50
SN74CBTLV3126DGVR	296-9116-2-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	586.00/2,000		
SN74CBTLV3126DR	296-9117-1-ND	Low Voltage Quad FET Bus Switch	14-SOP	.88	.66	.50
SN74CBTLV3126DR	296-9117-2-ND	Low Voltage Quad FET Bus Switch	14-SOP	715.00/2,500		
SN74CBTLV3126PWR	296-9118-1-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	.88	.66	.50
SN74CBTLV3126PWR	296-9118-2-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	586.00/2,000		
SN74CBTLV3245ADBQR	296-9119-1-ND	Low Volt. Octal FET Bus Switch	20-SSOP	.88	.66	.50
SN74CBTLV3245ADBQR	296-9119-2-ND	Low Volt. Octal FET Bus Switch	20-SSOP	715.00/2,500		
SN74CBTLV3245ADGVR	296-9120-1-ND	Low Volt. Octal FET Bus Switch	20-TVSOP	.88	.66	.50
SN74CBTLV3245ADGVR	296-9120-2-ND	Low Volt. Octal FET Bus Switch	20-TVSOP	586.00/2,000		
SN74CBTLV3245ADW	296-1544-5-ND	Low Volt. Octal FET Bus Switch	20-SOIC	.88	.66	.50
SN74CBTLV3245ADWR	296-1544-1-ND	Low Volt. Octal FET Bus Switch	20-SOIC	.88	.66	.50
SN74CBTLV3245ADWR	296-1544-2-ND	Low Volt. Octal FET Bus Switch	20-SOIC	586.00/2,000		
SN74CBTLV3245APWR	296-9121-1-ND	Low Volt. Octal FET Bus Switch	20-TSSOP	.88	.66	.50
SN74CBTLV3245APWR	296-9121-2-ND	Low Volt. Octal FET Bus Switch	20-TSSOP	586.00/2,000		
SN74CBTLV3251DBQR	296-9126-1-ND	LV 1-of-8 FET Mux/Demux	16-SSOP	.88	.66	.50
SN74CBTLV3251DBQR	296-9126-2-ND	LV 1-of-8 FET Mux/Demux	16-SSOP	715.00/2,500		
SN74CBTLV3251DGVR	296-9127-1-ND	LV 1-of-8 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3251DGVR	296-9127-2-ND	LV 1-of-8 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3251DR	296-9128-1-ND	LV 1-of-8 FET Mux/Demux	16-SOP	.88	.66	.50
SN74CBTLV3251DR	296-9128-2-ND	LV 1-of-8 FET Mux/Demux	16-SOP	715.00/2,500		
SN74CBTLV3251PWR	296-9129-1-ND	LV 1-of-8 FET Mux/Demux	16-TSSOP	.88	.66	.50
SN74CBTLV3251PWR	296-9129-2-ND	LV 1-of-8 FET Mux/Demux	16-TSSOP	586.00/2,000		
SN74CBTLV3253DBQR	296-9130-1-ND	LV Dual 1-of-4 FET Mux/Demux	16-SSOP	.88	.66	.50
SN74CBTLV3253DBQR	296-9130-2-ND	LV Dual 1-of-4 FET Mux/Demux	16-SSOP	715.00/2,500		
SN74CBTLV3253DGVR	296-9131-1-ND	LV Dual 1-of-4 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3253DGVR	296-9131-2-ND	LV Dual 1-of-4 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3253DR	296-9132-1-ND	LV Dual 1-of-4 FET Mux/Demux	16-SOP	.88	.66	.50
SN74CBTLV3253DR	296-9132-2-ND	LV Dual 1-of-4 FET Mux/Demux	16-SOP	715.00/2,500		
SN74CBTLV3253PWR	296-9133-1-ND	LV Dual 1-of-4 FET Mux/Demux	16-TSSOP	.88	.66	.50
SN74CBTLV3253PWR	296-9133-2-ND	LV Dual 1-of-4 FET Mux/Demux	16-TSSOP	586.00/2,000		
SN74CBTLV3257D	296-9134-5-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-SOP	.88	.66	.50
SN74CBTLV3257DBQR	296-9135-1-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.88	.66	.50
SN74CBTLV3257DBQR	296-9135-2-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	715.00/2,500		
SN74CBTLV3257DGVR	296-9136-1-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3257DGVR	296-9136-2-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3257DR	296-9137-1-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-SOP	.88	.66	.50
SN74CBTLV3257DR	296-9137-2-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-SOP	715.00/2,500		
SN74CBTLV3257PWR	296-9138-1-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.88	.66	.50
SN74CBTLV3257PWR	296-9138-2-ND	LV 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	586.00/2,000		
SN74CBTLV3383DBQR	296-9139-1-ND	LV 10-Bit, FET Bus-Exchange Switch	24-SSOP	.88	.66	.50
SN74CBTLV3383DBQR	296-9139-2-ND	LV 10-Bit, FET Bus-Exchange Switch	24-SSOP	715.00/2,500		
SN74CBTLV3383DGVR	296-9140-1-ND	LV 10-Bit, FET Bus-Exchange Switch	24-TVSOP	.88	.66	.50
SN74CBTLV3383DGVR	296-9140-2-ND	LV 10-Bit, FET Bus-Exchange Switch	24-TVSOP	586.00/2,000		
SN74CBTLV3383DW	296-1545-5-ND	LV 10-Bit, FET Bus-Exchange Switch	24-SOIC	.88	.66	.50
SN74CBTLV3383DWR	296-1545-1-ND	LV 10-Bit, FET Bus-Exchange Switch	24-SOIC	.88	.66	.50
SN74CBTLV3383DWR	296-1545-2-ND	LV 10-Bit, FET Bus-Exchange Switch	24-SOIC	586.00/2,000		
SN74CBTLV3383PWR	296-9141-1-ND	LV 10-Bit, FET Bus-Exchange Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3383PWR	296-9141-2-ND	LV 10-Bit, FET Bus-Exchange Switch	24-TSSOP	586.00/2,000		
SN74CBTLV3384DBQR	296-9142-1-ND	LV 10-Bit, FET Bus Switch	24-SSOP	.88	.66	.50
SN74CBTLV3384DBQR	296-9142-2-ND	LV 10-Bit, FET Bus Switch	24-SSOP	715.00/2,500		
SN74CBTLV3384DGVR	296-9143-1-ND	LV 10-Bit, FET Bus Switch	24-TVSOP	.88	.66	.50
SN74CBTLV3384DGVR	296-9143-2-ND	LV 10-Bit, FET Bus Switch	24-TVSOP	586.00/2,000		
SN74CBTLV3384DW	296-1546-5-ND	LV 10-Bit, FET Bus Switch	24-SOIC	.88	.66	.50
SN74CBTLV3384DWR	296-1546-1-ND	LV 10-Bit, FET Bus Switch	24-SOIC	.88	.66	.50
SN74CBTLV3384DWR	296-1546-2-ND	LV 10-Bit, FET Bus Switch	24-SOIC	586.00/2,000		
SN74CBTLV3384PWR	296-9144-1-ND	LV 10-Bit, FET Bus Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3384PWR	296-9144-2-ND	LV 10-Bit, FET Bus Switch	24-TSSOP	586.00/2,000		
SN74CBTLV3857DBQR	296-9145-1-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-SSOP	.88	.66	.50
SN74CBTLV3857DBQR	296-9145-2-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-SSOP	715.00/2,500		
SN74CBTLV3857DGVR	296-9146-1-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-TVSOP	.88	.66	.50
SN74CBTLV3857DGVR	296-9146-2-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-TVSOP	586.00/2,000		
SN74CBTLV3857DW	296-9147-5-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-SOP	.88	.66	.50
SN74CBTLV3857DWR	296-9147-1-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-SOP	.88	.66	.50
SN74CBTLV3857DWR	296-9147-2-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-SOP	586.00/2,000		
SN74CBTLV3857PWR	296-9148-1-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-TSSOP	.88	.66	.50
SN74CBTLV3857PWR	296-9148-2-ND	LV 10-Bit, FET Bus Switch with Internal Pulldown Resistor	24-TSSOP	586.00/2,000		
SN74CBTLV3861DBQR	296-9149-1-ND	Low Volt. 10-Bit FET Bus Switch	24-SSOP	.88	.66	.50
SN74CBTLV3861DBQR	296-9149-2-ND	Low Volt. 10-Bit FET Bus Switch	24-SSOP	715.00/2,500		
SN74CBTLV3861DGVR	296-9152-1-ND	Low Volt. 10-Bit FET Bus Switch	24-TVSOP	.88	.66	.50
SN74CBTLV3861DGVR	296-9152-2-ND	Low Volt. 10-Bit FET Bus Switch	24-TVSOP	586.00/2,000		
SN74CBTLV3861DWR	296-9151-1-ND	Low Volt. 10-Bit FET Bus Switch	24-SOP	.88	.66	.50
SN74CBTLV3861DWR	296-9151-2-ND	Low Volt. 10-Bit FET Bus Switch	24-SOP	586.00/2,000		
SN74CBTLV3861NSR	296-13182-1-ND	Low Volt. 10-Bit FET Bus Switch	24-SOP	.88	.66	.50
SN74CBTLV3861NSR	296-13182-2-ND	Low Volt. 10-Bit FET Bus Switch	24-SOP	586.00/2,000		
SN74CBTLV3861PWR	296-9153-1-ND	Low Volt. 10-Bit FET Bus Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3861PWR	296-9153-2-ND	Low Volt. 10-Bit FET Bus Switch	24-TSSOP	586.00/2,000		
SN74CBTLV16210DLR	296-6496-1-ND	LV 20-Bit, FET Bus Switch	48-SSOP	2.00	1.60	1.20

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBTLV16210DLR	296-6496-2-ND	LV 20-Bit, FET Bus Switch	48-SSOP	1040.00/1,000		
SN74CBTLV16210GR	296-6497-1-ND	LV 20-Bit, FET Bus Switch	48-TSSOP	2.00	1.60	1.20
SN74CBTLV16210GR	296-6497-2-ND	LV 20-Bit, FET Bus Switch	48-TSSOP	2080.00/2,000		
SN74CBTLV16210VR	296-6498-1-ND	LV 20-Bit, FET Bus Switch	48-TVSOP	2.00	1.60	1.20
SN74CBTLV16210VR	296-6498-2-ND	LV 20-Bit, FET Bus Switch	48-TVSOP	2080.00/2,000		
SN74CBTLV16211DLR	296-6499-1-ND	LV 24-Bit, FET Bus Switch	48-SSOP	2.00	1.60	1.20
SN74CBTLV16211DLR	296-6499-2-ND	LV 24-Bit, FET Bus Switch	48-SSOP	1040.00/1,000		
SN74CBTLV16211GR	296-6500-1-ND	LV 24-Bit, FET Bus Switch	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16211GR	296-6500-2-ND	LV 24-Bit, FET Bus Switch	56-TSSOP	2080.00/2,000		
SN74CBTLV16211VR	296-9100-1-ND	LV 24-Bit, FET Bus Switch	48-TVSOP	2.00	1.60	1.20
SN74CBTLV16211VR	296-9100-2-ND	LV 24-Bit, FET Bus Switch	48-TVSOP	2080.00/2,000		
SN74CBTLV16212DLR	296-9101-1-ND	LV 24-Bit, FET Bus-Exchange Switch	56-SSOP	2.00	1.60	1.20
SN74CBTLV16212DLR	296-9101-2-ND	LV 24-Bit, FET Bus-Exchange Switch	56-SSOP	1040.00/1,000		
SN74CBTLV16212GR	296-9102-1-ND	LV 24-Bit, FET Bus-Exchange Switch	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16212GR	296-9102-2-ND	LV 24-Bit, FET Bus-Exchange Switch	56-TSSOP	2080.00/2,000		
SN74CBTLV16212VR	296-9103-1-ND	LV 24-Bit, FET Bus-Exchange Switch	56-TVSOP	2.00	1.60	1.20
SN74CBTLV16212VR	296-9103-2-ND	LV 24-Bit, FET Bus-Exchange Switch	56-TVSOP	2080.00/2,000		
SN74CBTLV16292DLR	296-9104-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-SSOP	2.00	1.60	1.20
SN74CBTLV16292DLR	296-9104-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1040.00/1,000		
SN74CBTLV16292GR	296-9105-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16292GR	296-9105-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	2080.00/2,000		
SN74CBTLV16292VR	296-12882-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	2.00	1.60	1.20
SN74CBTLV16292VR	296-12882-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	2080.00/2,000		
SN74CBTLV16800DLR	296-9106-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-SSOP	2.00	1.60	1.20
SN74CBTLV16800DLR	296-9106-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-SSOP	1040.00/1,000		
SN74CBTLV16800GR	296-9107-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TSSOP	2.00	1.60	1.20
SN74CBTLV16800GR	296-9107-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TSSOP	2080.00/2,000		
SN74CBTLV16800VR	296-9108-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TVSOP	2.00	1.60	1.20
SN74CBTLV16800VR	296-9108-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TVSOP	2080.00/2,000		
SN74CBTLVR16292GR	296-9154-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3.15	2.52	1.96
SN74CBTLVR16292GR	296-9154-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3570.00/2,000		
SN74CBTLVR16292LR	296-9155-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	3.15	2.52	1.96
SN74CBTLVR16292LR	296-9155-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1785.00/1,000		
SN74CBTLVR16292VR	296-9156-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3.15	2.52	1.96
SN74CBTLVR16292VR	296-9156-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3570.00/2,000		
SN74CBTR16861DGGR	296-12336-1-ND	20-Bit, FET Bus Switch	48-TSSOP	2.48	1.98	1.54
SN74CBTR16861DGGR	296-12336-2-ND	20-Bit, FET Bus Switch	48-TSSOP	2806.00/2,000		
SN74CBTR16861DGVR	296-13183-1-ND	20-Bit, FET Bus Switch	48-TVSOP	2.48	1.98	1.54
SN74CBTR16861DGVR	296-13183-2-ND	20-Bit, FET Bus Switch	48-TVSOP	2806.00/2,000		
SN74CBTR16861DLR	296-12337-1-ND	20-Bit, FET Bus Switch	48-SSOP	2.48	1.98	1.54
SN74CBTR16861DLR	296-12337-2-ND	20-Bit, FET Bus Switch	48-SSOP	1403.00/1,000		
SN74CBTS3306DR	296-9157-1-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-SOP	.56	.42	.32
SN74CBTS3306DR	296-9157-2-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-SOP	455.00/2,500		
SN74CBTS3306PWR	296-9158-1-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-TSSOP	.56	.42	.32
SN74CBTS3306PWR	296-9158-2-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-TSSOP	372.00/2,000		
SN74CBTS3384DBQR	296-9159-1-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-SSOP	.56	.42	.32
SN74CBTS3384DBQR	296-9159-2-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-SSOP	455.00/2,500		
SN74CBTS3384DBR	296-9160-1-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-SSOP	.56	.42	.32
SN74CBTS3384DBR	296-9160-2-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-SSOP	372.00/2,000		
SN74CBTS3384DW	296-9161-5-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-SOP	.56	.42	.32
SN74CBTS3384PWR	296-9162-1-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-TSSOP	.56	.42	.32
SN74CBTS3384PWR	296-9162-2-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-TSSOP	372.00/2,000		
SN74CBTS6800DBQR	296-9163-1-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-SSOP	1.63	1.30	.98
SN74CBTS6800DBQR	296-9163-2-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-SSOP	2080.00/2,500		
SN74CBTS6800DGVR	296-9164-1-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-TVSOP	1.63	1.30	.98
SN74CBTS6800DGVR	296-9164-2-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-TVSOP	1690.00/2,000		
SN74CBTS6800DWR	296-9165-1-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-SOP	1.63	1.30	.98
SN74CBTS6800DWR	296-9165-2-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-SOP	1690.00/2,000		
SN74CBTS6800PWR	296-9166-1-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-TSSOP	1.63	1.30	.98
SN74CBTS6800PWR	296-9166-2-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-TSSOP	1690.00/2,000		
SN74CBTS16211DGGR	296-1174-1-ND	24-Bit, FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3.38	2.70	2.10
SN74CBTS16211DGGR	296-1174-2-ND	24-Bit, FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3826.00/2,000		
SN74CBTS16211DL	296-1547-5-ND	24-Bit, FET Bus Switch with Schottky Diode Clamp	56-SSOP	3.38	2.70	2.10
SN74CBTS16212DGGR	296-1175-1-ND	24-Bit, FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3.38	2.70	2.10
SN74CBTS16212DGGR	296-1175-2-ND	24-Bit, FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3826.00/2,000		
SN74CBTS16212DL	296-1548-5-ND	24-Bit, FET Bus Switch with Schottky Diode Clamp	56-SSOP	3.38	2.70	2.10

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74F04D	296-1177-5-ND	Hex Inverter	14-SOIC	.36	.29	.20
SN74F04DR	296-1177-1-ND	Hex Inverter	14-SOIC	.36	.29	.20
SN74F04DR	296-1177-2-ND	Hex Inverter	14-SOIC	235.00/2,500		
SN74F08D	296-1178-5-ND	Quad 2-Input AND Gate	14-SOIC	.36	.29	.20
SN74F38DR	296-14312-1-ND	Quad 2-Input NAND Buffer *NEW!*	14-SOIC	.45	.36	.27
SN74F38DR	296-14312-2-ND	Quad 2-Input NAND Buffer *NEW!*	14-SOIC	305.00/2,500		
SN74F74D	296-1183-5-ND	Dual D-Type Flip-Flop	14-SOIC	.39	.32	.22
SN74F74DR	296-1183-1-ND	Dual D-Type Flip-Flop	14-SOIC	.39	.32	.22
SN74F74DR	296-1183-2-ND	Dual D-Type Flip-Flop	14-SOIC	255.00/2,500		
SN74F74N	296-1558-5-ND	Dual D-Type Flip-Flop	14-Dip	.39	.32	.22
SN74F86N	296-3602-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.39	.32	.22
SN74F86NSR	296-13188-1-ND	Quad 2-Input Exclusive OR Gate	14-SOP	.39	.32	.22
SN74F86NSR	296-13188-2-ND	Quad 2-Input Exclusive OR Gate	14-SOP	216.00/2,000		
SN74F125D	296-1179-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.40	.32	.24
SN74F125DR	296-1179-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.40	.32	.24
SN74F125DR	296-1179-2-ND	Tri-State Quad Bus Buffer	14-SOIC	270.00/2,500		
SN74F138D	296-3551-5-ND	3-8 Line Decoder/Multiplexer	16-SOP	.40	.32	.24
SN74F138N	296-3552-5-ND	3-8 Line Decoder/Multiplexer	16-Dip	.40	.32	.24
SN74F153NSR	296-13184-1-ND	Dual 1-of-4 Data Selector/Mux	16-SOP	.45	.36	.27
SN74F153NSR	296-13184-2-ND	Dual 1-of-4 Data Selector/Mux	16-SOP	252.00/2,000		
SN74F157AN	296-1552-5-ND	Quad 2:1 Data Selector/Multiplexer	16-Dip	.45	.36	.27
SN74F161ANSR	296-13185-1-ND	Synch. 4-Bit Binary Counter	16-SOP	.48	.36	.27
SN74F161ANSR	296-13185-2-ND	Synch. 4-Bit Binary Counter	16-SOP	320.00/2,000		
SN74F244DWR	296-1180-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.45	.36	.27
SN74F244DWR	296-1180-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	252.00/2,000		
SN74F244N	296-1553-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.45	.36	.27
SN74F245DW	296-1181-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.45	.36	.27
SN74F245DWR	296-1181-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.45	.36	.27
SN74F245DWR	296-1181-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	252.00/2,000		
SN74F245N	296-3572-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.45	.36	.27
SN74F257D	296-1555-5-ND	Tri-State Quad 2-1 Data Select/Mux	16-SOIC	.48	.36	.27
SN74F374N	296-3588-5-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-Dip	.45	.36	.27
SN74F374NSR	296-13186-1-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOP	.45	.36	.27
SN74F374NSR	296-13186-2-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOP	252.00/2,000		
SN74F541NSR	296-13187-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.80	.60	.45
SN74F541NSR	296-13187-2-ND	Tri-State Octal Buffer/Driver	20-SOP	532.00/2,000		

FCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74FCT162244ATPVCT	296-14458-1-ND	16-Bit Buffer/Line Driver *NEW!*	48-SSOP	1.20	1.00	.80
74FCT162244ATPVCT	296-14458-2-ND	16-Bit Buffer/Line Driver *NEW!*	48-SSOP	532.00/1,000		
74FCT162244CTPACT	296-14296-1-ND	16-Bit Buffer/Line Driver *NEW!*	48-TSSOP	1.20	1.00	.80
74FCT162244CTPACT	296-14296-2-ND	16-Bit Buffer/Line Driver *NEW!*	48-TSSOP	1064.00/2,000		
74FCT162373ATPACT	296-14459-1-ND	16-Bit D-Type Latch *NEW!*	48-TSSOP	1.20	1.00	.80
74FCT162373ATPACT	296-14459-2-ND	16-Bit D-Type Latch *NEW!*	48-TSSOP	1064.00/2,000		
74FCT162501ATPVCT	296-14460-1-ND	18-Bit Registered Transceiver *NEW!*	56-SSOP	1.20	1.00	.80
74FCT162501ATPVCT	296-14460-2-ND	18-Bit Registered Transceiver *NEW!*	56-SSOP	532.00/1,000		
74FCT162501CTPVCT	296-12620-5-ND	18-Bit Registered Transceiver	56-SSOP	1.20	1.00	.80
CD74FCT244M	296-9413-5-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.80	.60	.45
CD74FCT245E	296-9414-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.80	.60	.45
CD74FCT245M	296-9415-5-ND	Tri-State Octal Bus Transceiver	20-SOP	.80	.60	.45
CD74FCT374M	296-9416-5-ND	Tri-State D-Type Flip-Flop	20-SOP	.80	.60	.45
CD74FCT623M	296-9419-5-ND	Tri-State Octal Bus Transceiver	20-SOP	4.30	3.44	2.68
CD74FCT843AM	296-9420-5-ND	Tri-State D-Type Latch	20-SOP	4.19	3.35	2.61
CY29FCT520ATSOCT	296-14562-1-ND	Tri-State Multilevel Pipeline Register *NEW!*	24-SOIC	3.04	2.43	1.89
CY29FCT520ATSOCT	296-14562-2-ND	Tri-State Multilevel Pipeline Register *NEW!*	24-SOIC	3442.00/2,000		
CY74FCT138ATQCT	296-14563-1-ND	1-of-8 Decoder *NEW!*	16-SSOP	.80	.60	.45
CY74FCT138ATQCT	296-14563-2-ND	1-of-8 Decoder *NEW!*	16-SSOP	650.00/2,500		
CY74FCT157CTQCT	296-12272-5-ND	Tri-State Quad 2-Input Multiplexer	16-SSOP	.80	.60	.45
CY74FCT157CTSOC	296-9438-5-ND	Quad 2-Input Multiplexer	16-SOP	.80	.60	.45
CY74FCT163CTQCT	296-14565-1-ND	4-Bit Binary Counter *NEW!*	16-SSOP	.92	.69	.52
CY74FCT163CTQCT	296-14565-2-ND	4-Bit Binary Counter *NEW!*	16-SSOP	747.50/2,500		
CY74FCT240ATQCT	296-14569-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT240ATQCT	296-14569-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	585.00/2,500		
CY74FCT240TQCT	296-14570-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT240TQCT	296-14570-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	585.00/2,500		
CY74FCT244ATQCT	296-13854-5-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT244ATSOCT	296-14571-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SOIC	.72	.54	.41
CY74FCT244ATSOCT	296-14571-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SOIC	478.00/2,000		
CY74FCT244CTQCT	296-14006-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT244CTQCT	296-14006-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	585.00/2,500		
CY74FCT244TQCT	296-14572-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT244TQCT	296-14572-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	585.00/2,500		
CY74FCT244TSOC	296-9440-5-ND	Tri-St. 8-Bit Buffer/Line Driver	20-SOP	.72	.54	.41
CY74FCT244TSOCT	296-14573-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SOIC	.72	.54	.41
CY74FCT244TSOCT	296-14573-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SOIC	478.00/2,000		
CY74FCT245ATPC	296-14574-5-ND	Tri-St. 8-Bit Transceiver *NEW!*	20-Dip	.72	.54	.41
CY74FCT245ATQCT	296-14575-1-ND	Tri-St. 8-Bit Transceiver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT245ATQCT	296-14575-2-ND	Tri-St. 8-Bit Transceiver *NEW!*	20-SSOP	585.00/2,500		
CY74FCT245TQCT	296-9441-5-ND	Tri-St. 8-Bit Transceiver	20-SSOP	.72	.54	.41
CY74FCT257ATQCT	296-13620-1-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	.72	.54	.41
CY74FCT257ATQCT	296-13620-2-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	585.00/2,500		
CY74FCT373ATQCT	296-14576-1-ND	Tri-State 8-Bit Latch *NEW!*	20-SSOP	.72	.54	.41
CY74FCT373ATQCT	296-14576-2-ND	Tri-State 8-Bit Latch *NEW!*	20-SSOP	585.00/2,500		
CY74FCT374ATQCT	296-14577-1-ND	Tri-State 8-Bit Register *NEW!*	20-SSOP	.72	.54	.41
CY74FCT374ATQCT	296-14577-2-ND	Tri-State 8-Bit Register *NEW!*	20-SSOP	585.00/2,500		
CY74FCT374TQCT	296-9442-1-ND	Tri-State 8-Bit Register	20-SOP	.49	.40	.27
CY74FCT374TQCT	296-9442-2-ND	Tri-State 8-Bit Register	20-SOP	585.00/2,500		
CY74FCT399CTSOCT	296-13007-1-ND	Quad 2-Input Register	16-SOIC	.72	.54	.41
CY74FCT399CTSOCT	296-13007-2-ND	Quad 2-Input Register	16-SOIC	478.00/2,000		
CY74FCT540CTQCT	296-13855-5-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT541ATPC	296-14578-5-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-Dip	.72	.54	.41
CY74FCT541ATQCT	296-13699-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541ATQCT	296-13699-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT541CTQCT	296-12629-5-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541CTSOCT	296-12274-5-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	.72	.54	.41
CY74FCT543ATQCT	296-14579-1-ND	Tri-State 8-Bit Latched Registered Transceiver *NEW!*	24-SSOP	.72	.54	.41
CY74FCT543ATQCT	296-14579-2-ND	Tri-State 8-Bit Latched Registered Transceiver *NEW!*	24-SSOP	585.00/2,500		
CY74FCT574ATQCT	296-14580-1-ND	Tri-State 8-Bit Register *NEW!*	20-SSOP	.72	.54	.41
CY74FCT574ATQCT	296-14580-2-ND	Tri-State 8-Bit Register *NEW!*	20-SSOP	585.00/2,500		
CY74FCT574TQCT	296-14581-1-ND	Tri-State 8-Bit Register *NEW!*	20-SSOP	.72	.54	.41

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CY74FCT574TQCT	296-14581-2-ND	Tri-State 8-Bit Register *NEW!*	20-SSOP	585.00/2,500		
CY74FCT646ATQCT	296-14582-1-ND	Tri-State 8-Bit Reg. Transcvr. *NEW!*	24-SSOP	.72	.54	.41
CY74FCT646ATQCT	296-14582-2-ND	Tri-State 8-Bit Reg. Transcvr. *NEW!*	24-SSOP	585.00/2,500		
CY74FCT821ATQCT	296-14583-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop *NEW!*	24-SSOP	.72	.54	.41
CY74FCT821ATQCT	296-14583-2-ND	Tri-State 10-Bit Bus Interface Flip-Flop *NEW!*	24-SSOP	585.00/2,500		
CY74FCT821BTPC	296-14584-5-ND	Tri-State 10-Bit Bus-Interface Register *NEW!*	24-Dip	.72	.54	.41
CY74FCT821CTQCT	296-14585-1-ND	Tri-State 10-Bit Bus-Interface Register *NEW!*	24-SSOP	.72	.54	.41
CY74FCT821CTQCT	296-14585-2-ND	Tri-State 10-Bit Bus-Interface Register *NEW!*	24-SSOP	585.00/2,500		
CY74FCT827ATSOC	296-9443-5-ND	Tri-State 10-Bit Buffer	24-SOP	.72	.54	.41
CY74FCT827CTSOCT	296-12845-5-ND	Tri-State 10-Bit Buffer	24-SOIC	.72	.54	.41
CY74FCT2244ATQCT	296-14566-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT2244ATQCT	296-14566-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	585.00/2,500		
CY74FCT2244CTQCT	296-14567-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT2244CTQCT	296-14567-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	585.00/2,500		
CY74FCT2245ATQCT	296-12974-1-ND	Tri-State Octal Bus Transceiver	20-QSOP	.72	.54	.41
CY74FCT2245ATQCT	296-12974-2-ND	Tri-State Octal Bus Transceiver	20-QSOP	585.00/2,500		
CY74FCT2245TSOCT	296-14568-1-ND	Tri-State Octal Bus Transceiver *NEW!*	20-SOIC	.72	.54	.41
CY74FCT2245TSOCT	296-14568-2-ND	Tri-State Octal Bus Transceiver *NEW!*	20-SOIC	478.00/2,000		
CY74FCT2245TSOC	296-9439-5-ND	Tri-State Octal Bus Transceiver	20-SOP	.72	.54	.41
CY74FCT2257ATQCT	296-14005-1-ND	Tri-State Quad 2-Input Mux *NEW!*	16-QSOP	1.68	1.34	1.01
CY74FCT2257ATQCT	296-14005-2-ND	Tri-State Quad 2-Input Mux *NEW!*	16-QSOP	2145.00/2,500		
CY74FCT2373CTSOC	296-12975-5-ND	Tri-State Octal Transparent Latch	20-SOIC	.72	.54	.41
CY74FCT2541ATQCT	296-14007-1-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	.72	.54	.41
CY74FCT2541ATQCT	296-14007-2-ND	Tri-St. 8-Bit Buffer/Line Driver *NEW!*	20-SSOP	585.00/2,500		
CY74FCT2574ATQCT	296-13635-5-ND	Tri-St. High Speed, Low Power, Octal D-Type Flip-Flop	20-QSOP	.72	.54	.41
CY74FCT2652ATQCT	296-13698-1-ND	Tri-St. 8-Bit Registered Transceiver	24-QSOP	2.00	1.60	1.20
CY74FCT2652ATQCT	296-13698-2-ND	Tri-St. 8-Bit Registered Transceiver	24-QSOP	2560.00/2,500		
CY74FCT2827ATQCT	296-14166-1-ND	Tri-State 10-Bit Buffer *NEW!*	24-SSOP	2.00	1.60	1.20
CY74FCT2827ATQCT	296-14166-2-ND	Tri-State 10-Bit Buffer *NEW!*	24-SSOP	2560.00/2,500		
CY74FCT16244ATPACT	296-14306-1-ND	16-Bit Buffer/Line Driver *NEW!*	48-TSSOP	1.20	1.00	.80
CY74FCT16244ATPACT	296-14306-2-ND	16-Bit Buffer/Line Driver *NEW!*	48-TSSOP	1064.00/2,000		
CY74FCT16373CTPACT	296-13619-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TSSOP	2.75	2.20	1.71
CY74FCT16373CTPACT	296-13619-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TSSOP	1064.00/2,000		
CY74FCT16373CTPVC	296-12687-5-ND	Tri-State 16-Bit, Transparent D-Type Latch Flip-Flop	48-SSOP	1.20	1.00	.80
CY74FCT16374CTPACT	296-12688-1-ND	Tri-St. 16-Bit D-Type Flip-Flop	48-TSSOP	1.20	1.00	.80
CY74FCT16374CTPACT	296-12688-2-ND	Tri-St. 16-Bit D-Type Flip-Flop	48-TSSOP	1064.00/2,000		
CY74FCT16374TPVC	296-12273-5-ND	Tri-St. 16-Bit D-Type Flip-Flop	48-SSOP	1.20	1.00	.80
CY74FCT16543ATPACT	296-12973-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1.38	1.10	.83
CY74FCT16543ATPACT	296-12973-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1430.00/2,000		
CY74FCT162244TPVCT	296-14564-1-ND	16-Bit Buffer/Line Driver *NEW!*	48-SSOP	1.20	1.00	.80
CY74FCT162244TPVCT	296-14564-2-ND	16-Bit Buffer/Line Driver *NEW!*	48-SSOP	532.00/1,000		
CY74FCT162245CTPVC	296-12551-5-ND	Tri-St. 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80

Future Bus Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74FB1653PCC	296-1559-5-ND	17-Bit Universal Storage Transceiver	100-HLQ	15.83	14.25	12.64
SN74FB2031RC	296-1560-5-ND	9-Bit Address/Data Transceiver	52-QFP	8.91	8.03	7.12
SN74FB2033ARC	296-1561-5-ND	8-Bit Transceiver	52-QFP	9.16	8.25	7.32
SN74FB1651PCA	296-3604-ND	17-Bit TTL/BTL Univ. Storage Xcvr.	100-HLQFP	15.15	14.14	13.13
SN74FB2033KRC	296-3605-ND	8-Bit TTL/BTL Registered Transceiver	52-QFP	10.33	9.30	8.25
SN74FB2040RC	296-3606-ND	8-Bit TTL/BTL Transceiver	52-QFP	9.58	8.63	7.65
SN74FB2041ARC	296-3607-ND	7-Bit TTL/BTL Transceiver	52-QFP	9.58	8.63	7.65

GTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTL1655DGGR	296-1184-1-ND	16-Bit Universal Bus Transceiver	64-TSSOP	10.16	9.15	8.12
SN74GTL1655DGGR	296-1184-2-ND	16-Bit Universal Bus Transceiver	64-TSSOP	15068.00/2,000		
SN74GTL16612DGGR	296-9808-1-ND	18-Bit Universal Bus Transceiver	56-TSSOP	6.60	5.28	4.46
SN74GTL16612DGGR	296-9808-2-ND	18-Bit Universal Bus Transceiver	56-TSSOP	8250.00/2,000		
SN74GTL16612DL	296-9809-5-ND	18-Bit Universal Bus Transceiver	56-SSOP	6.60	5.28	4.46
SN74GTL16616DGGR	296-1185-1-ND	17-Bit Universal Bus Transceiver	56-TSSOP	9.00	7.20	6.08
SN74GTL16616DGGR	296-1185-2-ND	17-Bit Universal Bus Transceiver	56-TSSOP	11250.00/2,000		
SN74GTL16616DLR	296-9810-1-ND	17-Bit Universal Bus Transceiver	56-SSOP	9.00	7.20	6.08
SN74GTL16616DLR	296-9810-2-ND	17-Bit Universal Bus Transceiver	56-SSOP	5625.00/1,000		
SN74GTL16622ADGGR	296-1186-1-ND	18-Bit Bus Transceiver	64-TSSOP	8.91	8.03	7.12
SN74GTL16622ADGGR	296-1186-2-ND	18-Bit Bus Transceiver	64-TSSOP	13214.00/2,000		
SN74GTL16923DGGR	296-9811-1-ND	18-Bit Universal Bus Transceiver	64-TSSOP	8.91	8.03	7.12
SN74GTL16923DGGR	296-9811-2-ND	18-Bit Universal Bus Transceiver	64-TSSOP	13214.00/2,000		

GTLP Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLP817DGVR	296-13205-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TVSOP	2.93	2.34	1.82
SN74GTLP817DGVR	296-13205-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TVSOP	3316.00/2,000		
SN74GTLP817DWR	296-12338-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-SOIC	2.93	2.34	1.82
SN74GTLP817DWR	296-12338-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-SOIC	3316.00/2,000		
SN74GTLP817PWR	296-12339-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TSSOP	2.93	2.34	1.82
SN74GTLP817PWR	296-12339-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TSSOP	3316.00/2,000		
SN74GTLP1394DGVR	296-9812-1-ND	2-Bit Bus Transceiver	16-TVSOP	2.38	1.90	1.43
SN74GTLP1394DGVR	296-9812-2-ND	2-Bit Bus Transceiver	16-TVSOP	2470.00/2,000		
SN74GTLP1394DR	296-9813-1-ND	2-Bit Bus Transceiver	16-SOP	2.38	1.90	1.43
SN74GTLP1394DR	296-9813-2-ND	2-Bit Bus Transceiver	16-SOP	3040.00/2,500		
SN74GTLP1394PWR	296-9814-1-ND	2-Bit Bus Transceiver	16-TSSOP	2.38	1.90	1.43
SN74GTLP1394PWR	296-9814-2-ND	2-Bit Bus Transceiver	16-TSSOP	2470.00/2,000		
SN74GTLP1395DGVR	296-12465-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-TVSOP	2.38	1.90	1.43
SN74GTLP1395DGVR	296-12465-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-TVSOP	2470.00/2,000		
SN74GTLP1395DWR	296-12466-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-SOIC	2.38	1.90	1.43
SN74GTLP1395DWR	296-12466-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-SOIC	2470.00/2,000		
SN74GTLP1395GQNR	296-13189-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-VFBGA	2.48	1.98	1.54
SN74GTLP1395GQNR	296-13189-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-VFBGA	1403.00/1,000		
SN74GRLP1395PWR	296-12467-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-TSSOP	2.38	1.90	1.43
SN74GRLP1395PWR	296-12467-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-TSSOP	2470.00/2,000		
SN74GTLP2033DGGR	296-12468-1-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TSSOP	5.29	4.23	3.29
SN74GTLP2033DGGR	296-12468-2-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TSSOP	5992.00/2,000		
SN74GTLP2033DGVR	296-12469-1-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TVSOP	5.29	4.23	3.29
SN74GTLP2033DGVR	296-12469-2-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TVSOP	5992.00/2,000		
SN74GTLP2033GQLR	296-13190-1-ND	8-Bit LVTTL-to-GTLP Adj.-Edge-Rate Registered Transceiver with Split LVTTL Port and Inverter	56-VFBGA	5.00	4.00	3.38
SN74GTLP2033GQLR	296-13190-2-ND	8-Bit LVTTL-to-GTLP Adj.-Edge-Rate Registered Transceiver with Split LVTTL Port and Inverter	56-VFBGA	3125.00/1,000		
SN74GTLP2034DGGR	296-13191-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Registered Transceiver with Split LVTTL Port	48-TSSOP	5.29	4.23	3.29
SN74GTLP2034DGGR	296-13191-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Registered Transceiver with Split LVTTL Port	48-TSSOP	5992.00/2,000		
SN74GTLP2034DGVR	296-13192-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	5.29	4.23	3.29
SN74GTLP2034DGVR	296-13192-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	5992.00/2,000		
SN74GTLP2034GQLR	296-13193-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	5.29	4.23	3.29
SN74GTLP2034GQLR	296-13193-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	2996.00/1,000		
SN74GTLP21395DGVR	296-13194-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TVSOP	2.38	1.90	1.43
SN74GTLP21395DGVR	296-13194-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TVSOP	2470.00/2,000		
SN74GTLP21395DW	296-13195-5-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	2.38	1.90	1.43
SN74GTLP21395DWR	296-13195-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	2.38	1.90	1.43
SN74GTLP21395DWR	296-13195-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	2470.00/2,000		
SN74GTLP21395GQNR	296-13197-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-VFBGA	2.48	1.98	1.54
SN74GTLP21395GQNR	296-13197-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-VFBGA	1403.00/1,000		
SN74GTLP21395PWR	296-13198-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	2.38	1.90	1.43
SN74GTLP21395PWR	296-13198-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	2470.00/2,000		
SN74GTLP22033DGGR	296-13199-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port and Inverter	48-TSSOP	5.29	4.23	3.29
SN74GTLP22033DGGR	296-13199-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port and Inverter	48-TSSOP	5992.00/2,000		
SN74GTLP22033DGVR	296-13200-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	5.29	4.23	3.29
SN74GTLP22033DGVR	296-13200-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	5992.00/2,000		
SN74GTLP22033GQLR	296-13201-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	5.00	4.00	3.38
SN74GTLP22033GQLR	296-13201-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	3125.00/1,000		
SN74GTLP22034DGGR	296-13202-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Registered Transceiver with Split LVTTL Port	48-TSSOP	5.29	4.23	3.29
SN74GTLP22034DGGR	296-13202-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Registered Transceiver with Split LVTTL Port	48-TSSOP	5992.00/2,000		
SN74GTLP22034DGVR	296-13203-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	5.29	4.23	3.29
SN74GTLP22034DGVR	296-13203-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	5992.00/2,000		
SN74GTLP22034GQLR	296-13204-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	5.29	4.23	3.29
SN74GTLP22034GQLR	296-13204-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	2996.00/1,000		

GTLPH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLPH306DGVR	296-13212-1-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-TVSOP	2.48	1.98	1.54
SN74GTLPH306DGVR	296-13212-2-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-TVSOP	2806.00/2,000		
SN74GTLPH306DWR	296-12341-1-ND	8-Bit LVTTL-GTLP Bus Transceiver.	24-SOIC	2.48	1.98	1.54
SN74GTLPH306DWR	296-12341-2-ND	8-Bit LVTTL-GTLP Bus Transceiver.	24-SOIC	2806.00/2,000		
SN74GTLPH1612DGGR	296-13206-1-ND	18-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	7.00	5.60	4.73
SN74GTLPH1612DGGR	296-13206-2-ND	18-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	8750.00/2,000		
SN74GTLPH1616DGGR	296-11932-1-ND	17-Bit Universal Bus Transceiver	64-TSSOP	7.00	5.60	4.73
SN74GTLPH1616DGGR	296-11932-2-ND	17-Bit Universal Bus Transceiver	64-TSSOP	8750.00/2,000		
SN74GTLPH1645DGGR	296-12470-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TSSOP	3.38	2.70	2.10
SN74GTLPH1645DGGR	296-12470-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TSSOP	3826.00/2,000		
SN74GTLPH1645DGVR	296-12471-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TVSOP	3.38	2.70	2.10
SN74GTLPH1645DGVR	296-12471-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TVSOP	3826.00/2,000		
SN74GTLPH1645GQLR	296-12663-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-VFBGA	3.71	2.97	2.31
SN74GTLPH1645GQLR	296-12663-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-VFBGA	2104.00/1,000		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLPH1655DGGR	296-12340-1-ND	16-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	7.00	5.60	4.73
SN74GTLPH1655DGGR	296-12340-2-ND	16-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	8750.00/2,000		
SN74GTLPH3245GKFR	296-13213-1-ND	32-Bit LVTTL-GTLP Adj.-Edge-Rate Bus Transceiver	114-LFBGA	5.30	4.24	3.58
SN74GTLPH3245GKFR	296-13213-2-ND	32-Bit LVTTL-GTLP Adj.-Edge-Rate Bus Transceiver	114-LFBGA	3313.00/1,000		
SN74GTLPH16612DLR	296-9815-1-ND	18-Bit Universal Bus Transceiver	56-SSOP	6.10	4.88	4.12
SN74GTLPH16612DLR	296-9815-2-ND	18-Bit Universal Bus Transceiver	56-SSOP	3813.00/1,000		
SN74GTLPH16612GR	296-9816-1-ND	18-Bit Universal Bus Transceiver	56-TSSOP	6.10	4.88	4.12
SN74GTLPH16612GR	296-9816-2-ND	18-Bit Universal Bus Transceiver	56-TSSOP	7626.00/2,000		
SN74GTLPH16912GR	296-13207-1-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TSSOP	6.50	5.20	4.39
SN74GTLPH16912GR	296-13207-2-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TSSOP	8126.00/2,000		
SN74GTLPH16912VR	296-12256-1-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TVSOP	6.50	5.20	4.39
SN74GTLPH16912VR	296-12256-2-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TVSOP	8126.00/2,000		
SN74GTLPH16916GR	296-13208-1-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TSSOP	6.50	5.20	4.39
SN74GTLPH16916GR	296-13208-2-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TSSOP	8126.00/2,000		
SN74GTLPH16916VR	296-13209-1-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TVSOP	6.50	5.20	4.39
SN74GTLPH16916VR	296-13209-2-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TVSOP	8126.00/2,000		
SN74GTLPH16945GR	296-13210-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TSSOP	2.81	2.25	1.75
SN74GTLPH16945GR	296-13210-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TSSOP	3188.00/2,000		
SN74GTLPH16945VR	296-13211-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TVSOP	2.81	2.25	1.75
SN74GTLPH16945VR	296-13211-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TVSOP	3188.00/2,000		
SN74GTLPH32945KR	296-12472-1-ND	32-Bit LVTTL-GTLP Bus Transceiver	96-LFBGA	4.39	3.51	2.73
SN74GTLPH32945KR	296-12472-2-ND	32-Bit LVTTL-GTLP Bus Transceiver	96-LFBGA	2486.00/1,000		

HC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HC00E	296-12769-5-ND	Quad 2-Input NAND Gate	14-Dip	.40	.32	.22
CD74HC00M	296-9167-5-ND	Quad 2-Input NAND Gate	14-SOP	.40	.32	.22
CD74HC00M96	296-14504-1-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HC00M96	296-14504-2-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HC02E	296-12770-5-ND	HS, Quad 2-Input NOR Gate	14-Dip	.40	.32	.22
CD74HC03M96	296-12771-1-ND	HS, Quad 2-Input NAND Gate with Open Drain	14-SOIC	.40	.32	.22
CD74HC03M96	296-12771-2-ND	HS, Quad 2-Input NAND Gate with Open Drain	14-SOIC	225.00/2,500		
CD74HC04E	296-12772-5-ND	HS, CMOS Logic Hex Inverter	14-Dip	.40	.32	.22
CD74HC04M	296-12966-5-ND	HS, CMOS Logic Hex Inverter	14-SOIC	.56	.42	.32
CD74HC04M96	296-14505-1-ND	HS, CMOS Logic Hex Inverter *NEW!*	14-SOIC	.40	.32	.22
CD74HC04M96	296-14505-2-ND	HS, CMOS Logic Hex Inverter *NEW!*	14-SOIC	225.00/2,500		
CD74HC08E	296-12773-5-ND	HS, Quad 2-Input AND Gate	14-Dip	.40	.32	.22
CD74HC08M	296-9169-5-ND	HS, Quad 2-Input AND Gate	14-SOP	.40	.32	.22
CD74HC08M96	296-14506-1-ND	HS, Quad 2-Input AND Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HC08M96	296-14506-2-ND	HS, Quad 2-Input AND Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HC10E	296-12774-5-ND	Triple 3-Input NAND Gate	14-Dip	.40	.32	.22
CD74HC10M	296-12775-5-ND	Triple 3-Input NAND Gate	14-SOIC	.40	.32	.22
CD74HC10M96	296-14507-1-ND	Triple 3-Input NAND Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HC10M96	296-14507-2-ND	Triple 3-Input NAND Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HC11M	296-9170-5-ND	Triple 3-Input AND Gate	14-SOP	.40	.32	.22
CD74HC11M96	296-12779-1-ND	Triple 3-Input AND Gate	14-SOIC	.40	.32	.22
CD74HC11M96	296-12779-2-ND	Triple 3-Input AND Gate	14-SOIC	225.00/2,500		
CD74HC14E	296-12786-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.40	.32	.22
CD74HC14M	296-9179-5-ND	Hex Schmitt Trigger Inverter	14-SOP	.40	.32	.22
CD74HC14M96	296-9179-1-ND	Hex Schmitt Trigger Inverter	14-SOP	.40	.32	.22
CD74HC14M96	296-9179-2-ND	Hex Schmitt Trigger Inverter	14-SOP	225.00/2,500		
CD74HC21M	296-9186-5-ND	Dual 4-Input AND Gate	14-SOP	.40	.32	.22
CD74HC27E	296-12802-5-ND	HS Triple 3-Input NOR Gate	14-Dip	.40	.32	.22
CD74HC30E	296-9196-5-ND	8-Input NAND Gate	14-Dip	.40	.32	.22
CD74HC30M	296-9197-5-ND	8-Input NAND Gate	14-SOP	.40	.32	.22
CD74HC30M96	296-14521-1-ND	8-Input NAND Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HC30M96	296-14521-2-ND	8-Input NAND Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HC32E	296-12803-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-Dip	.40	.32	.22
CD74HC32M	296-12804-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
CD74HC32M96	296-14522-1-ND	HS CMOS Logic Quad 2-Input OR Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HC32M96	296-14522-2-ND	HS CMOS Logic Quad 2-Input OR Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HC73M96	296-14540-1-ND	Dual J-K Flip-Flop with Reset *NEW!*	14-SOIC	.55	.44	.33
CD74HC73M96	296-14540-2-ND	Dual J-K Flip-Flop with Reset *NEW!*	14-SOIC	372.50/2,500		
CD74HC74E	296-12819-5-ND	Dual D-Type Flip-Flop	14-Dip	.40	.32	.22
CD74HC74M	296-12820-5-ND	Dual D-Type Flip-Flop	14-SOIC	.40	.32	.22
CD74HC74M96	296-14541-1-ND	Dual D-Type Flip-Flop *NEW!*	14-SOIC	.40	.32	.22
CD74HC74M96	296-14541-2-ND	Dual D-Type Flip-Flop *NEW!*	14-SOIC	225.00/2,500		
CD74HC75E	296-9240-5-ND	Dual 2-Bit Bistable Transparent Latch	16-Dip	.80	.60	.45
CD74HC85E	296-12821-5-ND	4-Bit, HS, Magnitude Comparator	16-Dip	.81	.68	.54
CD74HC85M	296-9242-5-ND	4-Bit, HS, Magnitude Comparator	16-SOP	.81	.68	.54
CD74HC85M96	296-9242-1-ND	4-Bit, HS, Magnitude Comparator	16-SOP	.81	.68	.54
CD74HC85M96	296-9242-2-ND	4-Bit, HS, Magnitude Comparator	16-SOP	877.50/2,500		
CD74HC86E	296-12822-5-ND	Quad 2-Input EX-OR Gate	14-Dip	.40	.32	.22
CD74HC93M96	296-9243-1-ND	4-Bit Binary Ripple Counter	14-SOP	.81	.68	.54
CD74HC93M96	296-9243-2-ND	4-Bit Binary Ripple Counter	14-SOP	877.50/2,500		
CD74HC112E	296-12776-5-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-Dip	.43	.34	.26
CD74HC112M96	296-12777-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	.43	.34	.26
CD74HC112M96	296-12777-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	287.50/2,500		
CD74HC112PWR	296-12778-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	.43	.34	.26
CD74HC112PWR	296-12778-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	238.00/2,000		
CD74HC123E	296-9171-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-Dip	.46	.37	.26
CD74HC123M	296-9172-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-SOP	.46	.37	.26
CD74HC123M96	296-14508-1-ND	Dual Retriggerable Monostable Multivibrator with Reset *NEW!*	16-SOIC	.46	.37	.26
CD74HC123M96	296-14508-2-ND	Dual Retriggerable Monostable Multivibrator with Reset *NEW!*	16-SOIC	297.50/2,500		
CD74HC123PWR	296-12780-1-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	.46	.37	.26
CD74HC123PWR	296-12780-2-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	252.00/2,000		
CD74HC125E	296-12781-5-ND	Tri-State HS Quad Buffer	14-Dip	.46	.37	.26
CD74HC125M	296-9173-5-ND	Tri-State HS Quad Buffer	14-SOP	.46	.37	.26
CD74HC125M96	296-14509-1-ND	Tri-State HS Quad Buffer *NEW!*	14-SOIC	.46	.37	.26
CD74HC125M96	296-14509-2-ND	Tri-State HS Quad Buffer *NEW!*	14-SOIC	297.50/2,500		
CD74HC126E	296-12782-5-ND	Tri-State HS Quad Buffer	14-Dip	.46	.37	.26
CD74HC126M	296-12783-5-ND	Tri-State HS Quad Buffer	14-SOIC	.46	.37	.26
CD74HC126M96	296-14510-1-ND	Tri-State HS Quad Buffer *NEW!*	14-SOIC	.46	.37	.26
CD74HC126M96	296-14510-2-ND	Tri-State HS Quad Buffer *NEW!*	14-SOIC	297.50/2,500		
CD74HC132E	296-12784-5-ND	Quad 2-In Schmitt-Trig. NAND Gate	14-Dip	.46	.37	.26
CD74HC132M	296-9175-5-ND	Quad 2-In Schmitt-Trig. NAND Gate	14-SOP	.46	.37	.26
CD74HC132M96	296-9175-1-ND	Quad 2-In Schmitt-Trig. NAND Gate	14-SOP	.46	.37	.26
CD74HC132M96	296-9175-2-ND	Quad 2-In Schmitt-Trig. NAND Gate	14-SOP	297.50/2,500		
CD74HC137E	296-9176-5-ND	3-8 Line Decoder/Demultiplexer, with Address Latch	16-Dip	.46	.37	.26
CD74HC138E	296-12785-5-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-Dip	.46	.37	.26
CD74HC138M	296-9177-5-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.46	.37	.26
CD74HC138M96	296-14511-1-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting *NEW!*	16-SOIC	.46	.37	.26
CD74HC138M96	296-14511-2-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting *NEW!*	16-SOIC	297.50/2,500		
CD74HC139M96	296-14512-1-ND	Dual 2-4 Line Decoder/Demux *NEW!*	16-SOIC	.46	.37	.26
CD74HC139M96	296-14512-2-ND	Dual 2-4 Line Decoder/Demux *NEW!*	16-SOIC	297.50/2,500		
CD74HC147E	296-14513-5-ND	10-4 Line Priority Encoder *NEW!*	16-Dip	.45	.36	.27
CD74HC151M96	296-12787-1-ND	HS CMOS Logic 8-Input Mux	16-SOIC	.45	.36	.27
CD74HC151M96	296-12787-2-ND	HS CMOS Logic 8-Input Mux	16-SOIC	305.00/2,500		
CD74HC154EN	296-9181-5-ND	4-16 Line Decoder/Demultiplexer	24-Dip	.48	.36	.27
CD74HC154M	296-9182-5-ND	4-16 Line Decoder/Demultiplexer	24-SOP	.48	.36	.27
CD74HC164E	296-12788-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.50	.40	.30
CD74HC164M	296-12789-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.50	.40	.30
CD74HC164M96	296-14514-1-ND	8-Bit Serial-In/Parallel-Out Shift Register *NEW!*	14-SOIC	.50	.40	.30
CD74HC164M96	296-14514-2-ND	8-Bit Serial-In/Parallel-Out Shift Register *NEW!*	14-SOIC	337.50/2,500		
CD74HC165E	296-12790-5-ND	8-Bit Parallel-In/Serial Out Shift Register	16-Dip	.49	.40	.27
CD74HC165M	296-12791-5-ND	8-Bit Parallel-In/Serial Out Shift Register	16-SOIC	.49	.40	.27
CD74HC173PWR	296-12792-1-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	.45	.36	.27
CD74HC173PWR	296-12792-2-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	252.00/2,000		
CD74HC174E	296-14515-5-ND	Hex D-Type Flip-Flop with Reset *NEW!*	16-Dip	.50	.40	.30
CD74HC192PWR	296-12793-1-ND	Presettable Synchronous 4-Bit Up/Down Counters	16-TSSOP	.60	.45	.34
CD74HC192PWR	296-12793-2-ND	Presettable Synchronous 4-Bit Up/Down Counters	16-TSSOP	400.00/2,000		
CD74HC194E	296-9183-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-Dip	.48	.36	.27
CD74HC194M	296-9185-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOP	.48	.36	.27
CD74HC194M96	296-9185-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOP	.96	.80	.64
CD74HC194M96	296-9185-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOP	390.00/2,500		
CD74HC194PWR	296-12794-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	.48	.36	.27
CD74HC194PWR	296-12794-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	320.00/2,000		
CD74HC195PWR	296-12795-1-ND	4-Bit Parallel Access Reg.	16-TSSOP	.60	.45	.34
CD74HC195PWR	296-12795-2-ND	4-Bit Parallel Access Reg.	16-TSSOP	400.00/2,000		
CD74HC221E	296-9187-5-ND	HS Dual Mono Multivibrator with Reset	16-Dip	.56	.42	.32
CD74HC221PWR	296-12796-1-ND	HS Dual Mono Multivibrator with Reset	16-TSSOP	.56	.42	.32
CD74HC221PWR	296-12796-2-ND	HS Dual Mono Multivibrator with Reset	16-TSSOP	372.00/2,000		
CD74HC237M96	296-12797-1-ND	3-to-8 Line Decoder Demux with Address Latches	16-SOIC	.56	.42	.32
CD74HC237M96	296-12797-2-ND	3-to-8 Line Decoder Demux with Address Latches	16-SOIC	455.00/2,500		
CD74HC237PWR	296-13813-1-ND	3-to-8 Line Decoder Demux HS, CMOS Logic *NEW!*	16-TSSOP	.56	.42	.32
CD74HC237PWR	296-13813-2-ND	3-to-8 Line Decoder Demux HS, CMOS Logic *NEW!*	16-TSSOP	372.00/2,000		
CD74HC238M	296-9188-5-ND	3-to-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.48	.36	.27
CD74HC238PWR	296-13814-1-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting *NEW!*	16-TSSOP	.48	.36	.27
CD74HC238PWR	296-13814-2-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting *NEW!*	16-TSSOP	320.00/2,000		
CD74HC243M96	296-9189-1-ND	Tri-State Quad Bus Transceiver	14-SOP	.49	.40	.27
CD74HC243M96	296-9189-2-ND	Tri-State Quad Bus Transceiver	14-SOP	320.00/2,500		
CD74HC244E	296-12798-5-ND	Tri-St. Octal Buffer/Line Driver	20-Dip	.49	.40	.27
CD74HC244M	296-12799-5-ND	Tri-St. Octal Buffer/Line Driver	20-SOIC	.49	.40	.27
CD74HC244M96	296-14516-1-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	.49	.40	.27
CD74HC244M96	296-14516-2-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	270.00/2,000		
CD74HC245E	296-12800-5-ND	Tri-St. Octal Bus Transceiver	20-Dip	.49	.40	.27
CD74HC245M	296-9421-5-ND	Tri-St. Octal Bus Transceiver	20-SOP	.49	.40	.27
CD74HC245M96	296-14517-1-ND	Tri-St. Octal-Bus Transceiver *NEW!*	20-SOIC	.49	.40	.27
CD74HC245M96	296-14517-2-ND	Tri-St. Octal-Bus Transceiver *NEW!*	20-SOIC	270.00/2,000		
CD74HC259M	296-9192-5-ND	8-Bit Addressable Latch	16-SOP	.49	.40	.27
CD74HC259M96	296-9192-1-ND	8-Bit Addressable Latch	16-SOP	.49	.40	.27
CD74HC259M96	296-9192-2-ND	8-Bit Addressable Latch	16-SOP	320.00/2,500		
CD74HC273E	296-12801-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.45	.36	.27
CD74HC280M96	296-14518-1-ND	9-Bit Odd/Even Parity Generator/Checker *NEW!*	14-SOIC	.56	.42	.32
CD74HC280M96	296-14518-2-ND	9-Bit Odd/Even Parity Generator/Checker *NEW!*	14-SOIC	455.00/2,500		
CD74HC283E	296-14519-5-ND	4-Bit Binary Full Adder with Fast Carry *NEW!*	16-Dip	.56	.42	.32
CD74HC297E	296-9193-5-ND	Digital Phase-Locked-Loop	16-Dip	1.88	1.50	1.13

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HC299E	296-9194-5-ND	Tri-St. 8-Bit Universal Shift Register	20-Dip	.72	.54	.41
CD74HC299M	296-9195-5-ND	Tri-St. 8-Bit Universal Shift Register	20-SOP	.72	.54	.41
CD74HC299M96	296-14520-1-ND	Tri-St. 8-Bit Universal Shift Register *NEW!*	20-SOIC	.72	.54	.41
CD74HC299M96	296-14520-2-ND	Tri-St. 8-Bit Universal Shift Register *NEW!*	20-SOIC	478.00/2,000		
CD74HC354E	296-9198-5-ND	Tri-State 8-Input Mux/Register	8-Dip	.60	.45	.34
CD74HC367M96	296-14523-1-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting *NEW!*	16-SOIC	.48	.36	.27
CD74HC367M96	296-14523-2-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting *NEW!*	16-SOIC	390.00/2,500		
CD74HC373E	296-12805-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.49	.40	.27
CD74HC373M	296-9422-5-ND	Tri-State Octal Transparent D-Type Latch	20-SOP	.49	.40	.27
CD74HC373M96	296-14524-1-ND	Tri-State Octal Transparent D-Type Latch *NEW!*	20-SOIC	.49	.40	.27
CD74HC373M96	296-14524-2-ND	Tri-State Octal Transparent D-Type Latch *NEW!*	20-SOIC	270.00/2,000		
CD74HC374E	296-12806-5-ND	Tri-St. Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
CD74HC374M	296-12807-5-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
CD74HC374M96	296-14525-1-ND	Tri-St. Octal D-Type Flip-Flop *NEW!*	20-SOIC	.49	.40	.27
CD74HC374M96	296-14525-2-ND	Tri-St. Octal D-Type Flip-Flop *NEW!*	20-SOIC	270.00/2,000		
CD74HC390E	296-9199-5-ND	Dual Decade Ripple Counter	16-Dip	.45	.36	.27
CD74HC390M96	296-14526-1-ND	Dual Decade Ripple Counter *NEW!*	16-SOIC	.45	.36	.27
CD74HC390M96	296-14526-2-ND	Dual Decade Ripple Counter *NEW!*	16-SOIC	305.00/2,500		
CD74HC423E	296-9229-5-ND	Dual Retrig. Monostable Multivibrator with Reset	16-Dip	.68	.51	.39
CD74HC540E	296-12812-5-ND	Tri-State Octal Buffer and Line Driver	20-Dip	.45	.36	.27
CD74HC541E	296-12813-5-ND	Tri-St. Octal Buffer/Line Driver	20-Dip	.45	.36	.27
CD74HC541M	296-12814-5-ND	Tri-St. Octal Buffer/Line Driver	20-SOIC	.45	.36	.27
CD74HC541M96	296-14538-1-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	.45	.36	.27
CD74HC541M96	296-14538-2-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	252.00/2,000		
CD74HC573E	296-12815-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.49	.40	.27
CD74HC573M96	296-12816-1-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
CD74HC573M96	296-12816-2-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	270.00/2,000		
CD74HC574E	296-12817-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
CD74HC574M	296-12818-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
CD74HC646M	296-9235-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOP	1.11	.93	.74
CD74HC652EN	296-14539-5-ND	Tri-St. Octal Bus Transceiver/Register *NEW!*	24-Dip	1.35	1.13	.90
CD74HC4016E	296-9204-5-ND	Quad Bilateral Switch	14-Dip	.56	.42	.32
CD74HC4016M96	296-9205-1-ND	Quad Bilateral Switch	14-SOP	.56	.42	.32
CD74HC4016M96	296-9205-2-ND	Quad Bilateral Switch	14-SOP	455.00/2,500		
CD74HC4017M96	296-12808-1-ND	High Speed Decade Counter/Divider	16-SOIC	.56	.42	.32
CD74HC4017M96	296-12808-2-ND	High Speed Decade Counter/Divider	16-SOIC	455.00/2,500		
CD74HC4017PWR	296-9423-1-ND	High Speed Decade Counter/Divider	16-TSSOP	.56	.42	.32
CD74HC4017PWR	296-9423-2-ND	High Speed Decade Counter/Divider	16-TSSOP	372.00/2,000		
CD74HC4020M96	296-12809-1-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	.50	.40	.30
CD74HC4020M96	296-12809-2-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	337.50/2,500		
CD74HC4024E	296-9206-5-ND	7-Stage Binary Ripple Counter	14-Dip	.50	.40	.30
CD74HC4024M	296-9207-5-ND	7-Stage Binary Ripple Counter	14-SOP	.50	.40	.30
CD74HC4040M96	296-14527-1-ND	12-Stage Binary Counter *NEW!*	16-SOIC	.50	.40	.30
CD74HC4040M96	296-14527-2-ND	12-Stage Binary Counter *NEW!*	16-SOIC	337.50/2,500		
CD74HC4046AE	296-9208-5-ND	Phase-Locked-Loop with VCO	16-Dip	.50	.40	.30
CD74HC4046AM	296-9209-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.50	.40	.30
CD74HC4046AM96	296-14528-1-ND	Phase-Locked-Loop with VCO *NEW!*	16-SOIC	.50	.40	.30
CD74HC4046AM96	296-14528-2-ND	Phase-Locked-Loop with VCO *NEW!*	16-SOIC	337.50/2,500		
CD74HC4046APWR	296-9210-1-ND	Phase-Locked-Loop with VCO	16-TSSOP	.50	.40	.30
CD74HC4046APWR	296-9210-2-ND	Phase-Locked-Loop with VCO	16-TSSOP	280.00/2,000		
CD74HC4049E	296-9211-5-ND	Hex Inverting Buffer	16-Dip	.56	.42	.32
CD74HC4049M	296-9212-5-ND	Hex Inverting Buffer	16-SOIC	.56	.42	.32
CD74HC4050E	296-9213-5-ND	Hex Non-Inverting Buffer	16-Dip	.50	.40	.30
CD74HC4050M	296-9214-5-ND	Hex Non-Inverting Buffer	16-SOIC	.50	.40	.30
CD74HC4050M96	296-14529-1-ND	Hex Non-Inverting Buffer *NEW!*	16-SOIC	.50	.40	.30
CD74HC4050M96	296-14529-2-ND	Hex Non-Inverting Buffer *NEW!*	16-SOIC	337.50/2,500		
CD74HC4050PWR	296-9215-1-ND	Hex Non-Inverting Buffer	16-TSSOP	.50	.40	.30
CD74HC4050PWR	296-9215-2-ND	Hex Non-Inverting Buffer	16-TSSOP	280.00/2,000		
CD74HC4051E	296-12810-5-ND	High Speed CMOS Logic Analog Mux/Demux	16-Dip	.50	.40	.30
CD74HC4051M	296-9216-5-ND	High Speed CMOS Logic Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4051M96	296-14530-1-ND	High Speed CMOS Logic Analog Mux/Demux *NEW!*	16-SOIC	.50	.40	.30
CD74HC4051M96	296-14530-2-ND	High Speed CMOS Logic Analog Mux/Demux *NEW!*	16-SOIC	337.50/2,500		
CD74HC4051PWR	296-13031-1-ND	High Speed CMOS Logic Analog Mux/Demux	16-SOP	.50	.40	.30
CD74HC4051PWR	296-13031-2-ND	High Speed CMOS Logic Analog Mux/Demux	16-SOP	280.00/2,000		
CD74HC4052E	296-9217-5-ND	Dual 4-Ch. Analog Mux/Demux	16-Dip	.50	.40	.30
CD74HC4052M	296-9218-5-ND	Dual 4-Ch. Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4052M96	296-14531-1-ND	Dual 4-Ch. Analog Mux/Demux *NEW!*	16-SOIC	.50	.40	.30
CD74HC4052M96	296-14531-2-ND	Dual 4-Ch. Analog Mux/Demux *NEW!*	16-SOIC	337.50/2,500		
CD74HC4053E	296-9219-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.50	.40	.30
CD74HC4053M	296-9220-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4053M96	296-14532-1-ND	Triple 2-Channel Analog Mux/Demux *NEW!*	16-SOIC	.50	.40	.30
CD74HC4053M96	296-14532-2-ND	Triple 2-Channel Analog Mux/Demux *NEW!*	16-SOIC	337.50/2,500		
CD74HC4053PWR	296-12111-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HC4053PWR	296-12111-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	280.00/2,000		
CD74HC4059M96	296-9221-1-ND	CMOS Programmable Divide-by-N Counter	24-SOP	2.48	1.98	1.49
CD74HC4059M96	296-9221-2-ND	CMOS Programmable Divide-by-N Counter	24-SOP	2574.00/2,000		
CD74HC4060M	296-9222-5-ND	14-Stage Binary Counter with Oscillator	16-SOP	.50	.40	.30
CD74HC4066E	296-14533-5-ND	Quad Bilateral Switch *NEW!*	14-Dip	.45	.36	.27
CD74HC4066M	296-9224-5-ND	Quad Bilateral Switch	14-SOP	.45	.36	.27
CD74HC4066M96	296-9224-1-ND	Quad Bilateral Switch	14-SOP	.45	.36	.27
CD74HC4060M96	296-9224-2-ND	Quad Bilateral Switch	14-SOP	305.00/2,500		
CD74HC4067M	296-9225-5-ND	16-Channel Analog Mux/Demux	24-SOIC	.48	.36	.27
CD74HC4067SM96	296-9226-1-ND	16-Channel Analog Mux/Demux	24-SSOP	.48	.36	.27
CD74HC4067SM96	296-9226-2-ND	16-Channel Analog Mux/Demux	24-SSOP	320.00/2,000		
CD74HC4075M	296-9227-5-ND	Triple 3-Input OR Gate	14-SOP	.50	.40	.30
CD74HC4075M96	296-14534-1-ND	Triple 3-Input OR Gate *NEW!*	14-SOIC	.50	.40	.30
CD74HC4075M96	296-14534-2-ND	Triple 3-Input OR Gate *NEW!*	14-SOIC	337.50/2,500		
CD74HC4075PWR	296-9228-1-ND	Triple 3-Input OR Gate	14-TSSOP	.50	.40	.30
CD74HC4075PWR	296-9228-2-ND	Triple 3-Input OR Gate	14-TSSOP	280.00/2,000		
CD74HC4094M	296-14290-5-ND	Tri-State 8-Stage Bus Register *NEW!*	16-SOIC	.48	.36	.27
CD74HC4094M96	296-14535-1-ND	Tri-State 8-Stage Bus Register *NEW!*	16-SOIC	.48	.36	.27
CD74HC4094M96	296-14535-2-ND	Tri-State 8-Stage Bus Register *NEW!*	16-SOIC	390.00/2,500		
CD74HC4316M	296-9230-5-ND	Quad Analog Switch w/Level Translation	16-SOP	.56	.42	.32
CD74HC4316M96	296-14536-1-ND	Quad Analog Switch w/Level Translation *NEW!*	16-SOIC	.56	.42	.32
CD74HC4316M96	296-14536-2-ND	Quad Analog Switch w/Level Translation *NEW!*	16-SOIC	455.00/2,500		
CD74HC4351E	296-9231-5-ND	Analog Mux/Demux with Latch	20-Dip	.76	.57	.43
CD74HC4511E	296-14537-5-ND	BCD-to-7 Segment Latch/Decoder/Driver *NEW!*	16-Dip	.76	.57	.43
CD74HC4511M	296-9232-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-SOP	.76	.57	.43
CD74HC4515M	296-9233-5-ND	4-16 Line Decoder/Demux w/Input Latch	24-SOP	2.13	1.70	1.28
CD74HC4538E	296-12811-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-Dip	.48	.36	.27
CD74HC4538M	296-9234-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-SOP	.48	.36	.27
CD74HC7046AE	296-9237-5-ND	Phase-Locked Loop w/VCO/Lock Detector	16-Dip	1.93	1.54	1.16
CD74HC7046AM	296-9238-5-ND	PLL with VCO/Lock Detector	16-SOP	1.93	1.54	1.16
CD74HC7266M	296-9239-5-ND	Quad 2-Input EX-NOR Gate	14-SOP	.78	.65	.52
CD74HC40103E	296-9200-5-ND	8-Stage Synchronous Down Counter	16-Dip	.80	.60	.45
CD74HC40103M	296-9201-5-ND	8-Stage Synchronous Down Counter	16-SOP	.80	.60	.45
CD74HC40105E	296-9202-5-ND	4-Bit by 16-Word FIFO Register	16-Dip	.78	.65	.52
CD74HC40105M96	296-9203-1-ND	4-Bit by 16-Word FIFO Register	16-SOP	.78	.65	.52
CD74HC40105M96	296-9203-2-ND	4-Bit by 16-Word FIFO Register	16-SOP	845.00/2,500		
SN74HC00D	296-1187-5-ND	Quad 2-Input NAND Gate	14-SOP	.40	.32	.22
SN74HC00DR	296-1187-1-ND	Quad 2-Input NAND Gate	14-SOP	.40	.32	.22
SN74HC00DR	296-1187-2-ND	Quad 2-Input NAND Gate	14-SOP	225.00/2,500		
SN74HC00N	296-1563-5-ND	Quad 2-Input NAND Gate	14-Dip	.40	.32	.22
SN74HC00NSR	296-8202-1-ND	Quad 2-Input NAND Gate	14-SOP	.40	.32	.22
SN74HC00NSR	296-8202-2-ND	Quad 2-Input NAND Gate	14-SOP	190.00/2,000		
SN74HC00PWR	296-8203-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.52	.39	.30
SN74HC00PWR	296-8203-2-ND	Quad 2-Input NAND Gate	14-TSSOP	346.00/2,000		
SN74HC02D	296-1188-5-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.32	.22
SN74HC02DR	296-1188-1-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.32	.22
SN74HC02DR	296-1188-2-ND	Quad 2-Input NOR Gate	14-SOIC	225.00/2,500		
SN74HC02DBR	296-8204-1-ND	Quad 2-Input NOR Gate	14-SSOP	.40	.32	.22
SN74HC02DBR	296-8204-2-ND	Quad 2-Input NOR Gate	14-SSOP	190.00/2,000		
SN74HC02N	296-1564-5-ND	Quad 2-Input NOR Gate	14-Dip	.40	.32	.22
SN74HC02NSR	296-8205-1-ND	Quad 2-Input NOR Gate	14-SOP	.40	.32	.22
SN74HC02NSR	296-8205-2-ND	Quad 2-Input NOR Gate	14-SOP	190.00/2,000		
SN74HC02PWR	296-8206-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.40	.32	.22
SN74HC02PWR	296-8206-2-ND	Quad 2-Input NOR Gate	14-TSSOP	190.00/2,000		
SN74HC03D	296-9817-5-ND	Quad 2-In NAND Gate with OD Output	14-SOP	.40	.32	.22
SN74HC03N	296-8207-5-ND	Quad 2-In NAND Gate with OD Output	14-Dip	.40	.32	.22
SN74HC04D	296-1189-5-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74HC04DR	296-1189-1-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74HC04DR	296-1189-2-ND	Hex Inverter	14-SOIC	225.00/2,500		
SN74HC04N	296-1566-5-ND	Hex Inverter	14-Dip	.40	.32	.22
SN74HC04NSR	296-12883-1-ND	Hex Inverter	14-SOP	.40	.32	.22
SN74HC04NSR	296-12883-2-ND	Hex Inverter	14-SOP	190.00/2,000		
SN74HC04PWR	296-8208-1-ND	Hex Inverter	14-TSSOP	.40	.32	.22
SN74HC04PWR	296-8208-2-ND	Hex Inverter	14-TSSOP	190.00/2,000		
SN74HC05D	296-1190-5-ND	Hex Inverter with OD	14-SOIC	.40	.32	.22
SN74HC05DR	296-1190-1-ND	Hex Inverter with OD	14-SOIC	.40	.32	.22
SN74HC05DR	296-1190-2-ND	Hex Inverter with OD	14-SOIC	225.00/2,500		
SN74HC05N	296-1568-5-ND	Hex Inverter with OD	14-Dip	.40	.32	.22
SN74HC08D	296-1191-5-ND	Quad 2-Input AND Gate	14-SOIC	.40	.32	.22
SN74HC08DR	296-1191-1-ND	Quad 2-Input AND Gate	14-SOIC	.40	.32	.22
SN74HC08DR	296-1191-2-ND	Quad 2-Input AND Gate	14-SOIC	225.00/2,500		
SN74HC08N	296-1570-5-ND	Quad 2-Input AND Gate	14-Dip	.40	.32	.22
SN74HC08NSR	296-12884-1-ND	Quad 2-Input AND Gate	14-SOP	.40	.32	.22
SN74HC08NSR	296-12884-2-ND	Quad 2-Input AND Gate	14-SOP	190.00/2,000		
SN74HC08PWR	296-8210-1-ND	Quad 2-Input AND Gate	14-TSSOP	.40	.32	.22
SN74HC08PWR	296-8210-2-ND	Quad 2-Input AND Gate	14-TSSOP	190.00/2,000		
SN74HC10D	296-8213-5-ND	Triple 3-Input NAND Gate	14-SOP	.40	.32	.22
SN74HC10N	296-8214-5-ND	Triple 3-Input NAND Gate	14-Dip	.40	.32	.22
SN74HC11D	296-8216-5-ND	Triple 3-Input Pos. AND Gate	14-SOP	.40	.32	.22
SN74HC11N	296-8217-5-ND	Triple 3-Input Pos. AND Gate	14-Dip	.40	.32	.22
SN74HC11NSR	296-12885-1-ND	Triple 3-Input Pos. AND Gate	14-SOP	.40	.32	.22
SN74HC11NSR	296-12885-2-ND	Triple 3-Input Pos. AND Gate	14-SOP	190.00/2,000		
SN74HC11PWR	296-13611-1-ND	Triple 3-Input Pos. AND Gate	14-TSSOP	.40	.32	.22
SN74HC11PWR	296-13611-2-ND	Triple 3-Input Pos. AND Gate	14-TSSOP	190.00/2,000		
SN74HC14D	296-1194-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.22
SN74HC14DR	296-1194-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.22
SN74HC14DR	296-1194-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	225.00/2,500		
SN74HC14N	296-1577-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.40	.32	.22
SN74HC14NSR	296-12887-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.40	.32	.22
SN74HC14NSR	296-12887-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	190.00/2,000		
SN74HC14PWR	296-8234-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.40	.32	.22
SN74HC14PWR	296-8234-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	190.00/2,000		
SN74HC20DR	296-8263-1-ND	Dual 4-Input NAND Gate	14-SOP	.40	.32	.22
SN74HC20DR	296-8263-2-ND	Dual 4-Input NAND Gate	14-SOP	225.00/2,500		
SN74HC20N	296-12892-5-ND	Dual 4-Input NAND Gate	14-Dip	.40	.32	.22
SN74HC20NSR	296-12893-1-ND	Dual 4-Input NAND Gate	14-SOP	.40	.32	.22
SN74HC20NSR	296-12893-2-ND	Dual 4-Input NAND Gate	14-SOP	190.00/2,000		
SN74HC21D	296-8265-5-ND	Dual 4-Input Positive AND Gate	14-SOP	.40	.32	.22
SN74HC21N	296-8266-5-ND	Dual 4-Input Positive AND Gate	14-Dip	.40	.32	.22
SN74HC21NSR	296-13216-1-ND	Dual 4-Input Positive AND Gate	14-SOP	.40	.32	.22
SN74HC21NSR	296-13216-2-ND	Dual 4-Input Positive AND Gate	14-SOP	190.00/2,000		
SN74HC27D	296-8298-5-ND	Triple 3-Input NOR Gate	14-SOP	.40	.32	.22
SN74HC27N	296-12896-5-ND	Triple 3-Input NOR Gate	14-Dip	.40	.32	.22
SN74HC27NSR	296-8299-1-ND	Triple 3-Input NOR Gate	14-SOP	.40	.32	.22
SN74HC27NSR	296-8299-2-ND	Triple 3-Input NOR Gate	14-SOP	190.00/2,000		
SN74HC32D	296-1199-5-ND	Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
SN74HC32DR	296-1199-1-ND	Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
SN74HC32DR	296-1199-2-ND	Quad 2-Input OR Gate	14-SOIC	225.00/2,500		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74HC32DBR	296-8301-1-ND	Quad 2-Input OR Gate	14-SSOP	.40	.32	.22
SN74HC32DBR	296-8301-2-ND	Quad 2-Input OR Gate	14-SSOP	190.00/2,000		
SN74HC32N	296-1589-5-ND	Quad 2-Input OR Gate	14-Dip	.40	.32	.22
SN74HC32PWR	296-8302-1-ND	Quad 2-Input OR Gate	14-TSSOP	.40	.32	.22
SN74HC32PWR	296-8302-2-ND	Quad 2-Input OR Gate	14-TSSOP	190.00/2,000		
SN74HC42D	296-8331-5-ND	4-to-10 Line Decoder (1 of 10)	16-SOP	.75	.63	.50
SN74HC42DR	296-8331-1-ND	4-to-10 Line Decoder (1 of 10)	16-SOP	.81	.68	.54
SN74HC42DR	296-8331-2-ND	4-to-10 Line Decoder (1 of 10)	16-SOP	877.50/2,500		
SN74HC42N	296-8332-5-ND	4-to-10 Line Decoder (1 of 10)	16-Dip	.75	.63	.50
SN74HC74D	296-1204-5-ND	Dual D-Type Flip-Flop	14-SOIC	.40	.32	.22
SN74HC74DR	296-1204-1-ND	Dual D-Type Flip-Flop	14-SOIC	.40	.32	.22
SN74HC74DR	296-1204-2-ND	Dual D-Type Flip-Flop	14-SOIC	225.00/2,500		
SN74HC74DBR	296-8370-1-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SSOP	.40	.32	.22
SN74HC74DBR	296-8370-2-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SSOP	190.00/2,000		
SN74HC74N	296-1602-5-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-Dip	.40	.32	.22
SN74HC74NSR	296-8371-1-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SOP	.40	.32	.22
SN74HC74NSR	296-8371-2-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SOP	190.00/2,000		
SN74HC74PWR	296-8372-1-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP	.40	.32	.22
SN74HC74PWR	296-8372-2-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP	190.00/2,000		
SN74HC86D	296-8374-5-ND	Quad 2-Input EX-OR Gate	14-SOP	.40	.32	.22
SN74HC86N	296-8375-5-ND	Quad 2-Input EX-OR Gate	14-Dip	.40	.32	.22
SN74HC86PWR	296-8376-1-ND	Quad 2-Input EX-OR Gate	14-TSSOP	.40	.32	.22
SN74HC86PWR	296-8376-2-ND	Quad 2-Input EX-OR Gate	14-TSSOP	190.00/2,000		
SN74HC109D	296-8211-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOP	.46	.37	.26
SN74HC109N	296-8212-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-Dip	.46	.37	.26
SN74HC112D	296-8215-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOP	.40	.32	.24
SN74HC112N	296-12121-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-Dip	.40	.32	.24
SN74HC125D	296-1192-5-ND	Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74HC125DR	296-1192-1-ND	Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74HC125DR	296-1192-2-ND	Quad Bus Buffer Gate	14-SOIC	255.00/2,500		
SN74HC125DBR	296-8218-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.39	.32	.22
SN74HC125DBR	296-8218-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	216.00/2,000		
SN74HC125N	296-1572-5-ND	Quad Bus Buffer Gate	14-Dip	.39	.32	.22
SN74HC126D	296-8219-5-ND	Quad Tri-State Bus Buffer Gate	14-SOP	.39	.32	.22
SN74HC126DBR	296-8220-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.39	.32	.22
SN74HC126DBR	296-8220-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	216.00/2,000		
SN74HC126N	296-8221-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.39	.32	.22
SN74HC126NSR	296-8222-1-ND	Quad Tri-State Bus Buffer Gate	14-SOP	.39	.32	.22
SN74HC126NSR	296-8222-2-ND	Quad Tri-State Bus Buffer Gate	14-SOP	216.00/2,000		
SN74HC132D	296-8224-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOP	.39	.32	.22
SN74HC132DBR	296-8225-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	.39	.32	.22
SN74HC132DBR	296-8225-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	216.00/2,000		
SN74HC132N	296-1573-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-Dip	.39	.32	.22
SN74HC132PWR	296-8226-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	.39	.32	.22
SN74HC132PWR	296-8226-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	216.00/2,000		
SN74HC138D	296-1193-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.39	.32	.22
SN74HC138DR	296-1193-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.39	.32	.22
SN74HC138DR	296-1193-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	255.00/2,500		
SN74HC138DBR	296-8227-1-ND	3-to-8 Line Decoder/Demux	16-SSOP	.39	.32	.22
SN74HC138DBR	296-8227-2-ND	3-to-8 Line Decoder/Demux	16-SSOP	216.00/2,000		
SN74HC138N	296-1575-5-ND	3-to-8 Line Decoder/Demux	16-Dip	.39	.32	.22
SN74HC138NSR	296-12886-1-ND	3-to-8 Line Decoder/Demux	16-SOP	.39	.32	.22
SN74HC138NSR	296-12886-2-ND	3-to-8 Line Decoder/Demux	16-SOP	216.00/2,000		
SN74HC138PWR	296-8228-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.39	.32	.22
SN74HC138PWR	296-8228-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP	216.00/2,000		
SN74HC139D	296-8229-5-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOP	.39	.32	.22
SN74HC139N	296-8230-5-ND	Dual 2-4 Line Decoder/Demultiplexer	16-Dip	.39	.32	.22
SN74HC139PWR	296-8231-1-ND	Dual 2-4 Line Decoder/Demultiplexer	16-TSSOP	.39	.32	.22
SN74HC139PWR	296-8231-2-ND	Dual 2-4 Line Decoder/Demultiplexer	16-TSSOP	216.00/2,000		
SN74HC148D	296-8232-5-ND	8-to-3 Line Priority Encoder	16-SOP	.40	.32	.24
SN74HC148N	296-8233-5-ND	8-to-3 Line Priority Encoder	16-Dip	.40	.32	.24
SN74HC151D	296-8235-5-ND	8-to-1 Line Data Selector/Multiplexer	16-SOP	.45	.36	.27
SN74HC151N	296-8236-5-ND	8-to-1 Line Data Selector/Multiplexer	16-Dip	.45	.36	.27
SN74HC153D	296-8237-5-ND	Dual 4-1 Line Data Selector/Mux	16-SOP	.45	.36	.27
SN74HC153PWR	296-12888-1-ND	Dual 4-1 Line Data Selector/Mux	16-TSSOP	.45	.36	.27
SN74HC153PWR	296-12888-2-ND	Dual 4-1 Line Data Selector/Mux	16-TSSOP	252.00/2,000		
SN74HC153N	296-8238-5-ND	Dual 4-1 Line Data Selector/Mux	16-Dip	.45	.36	.27
SN74HC157D	296-8239-5-ND	Quad 2-1 Data Selector/Multiplexer	16-SOP	.45	.36	.27
SN74HC157N	296-1578-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.45	.36	.27
SN74HC157NSR	296-8240-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOP	.45	.36	.27
SN74HC157NSR	296-8240-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOP	252.00/2,000		
SN74HC161D	296-8243-5-ND	4-Bit Synch. Binary Counter	16-SOP	.45	.36	.27
SN74HC161N	296-8244-5-ND	4-Bit Synch. Binary Counter	16-Dip	.45	.36	.27
SN74HC163D	296-8245-5-ND	4-Bit Synch. Binary Counter	16-SOP	.45	.36	.27
SN74HC163N	296-8246-5-ND	4-Bit Synch. Binary Counter	16-Dip	.45	.36	.27
SN74HC163NSR	296-12889-1-ND	4-Bit Synch. Binary Counter	16-SOP	.45	.36	.27
SN74HC163NSR	296-12889-2-ND	4-Bit Synch. Binary Counter	16-SOP	252.00/2,000		
SN74HC164D	296-8247-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP	.45	.36	.27
SN74HC164N	296-8248-5-ND	8-Bit Parallel-Out Serial Shift Register	14-Dip	.45	.36	.27
SN74HC164PWR	296-14020-1-ND	8-Bit Parallel-Out Serial Shift Register *NEW!*	14-TSSOP	.45	.36	.27
SN74HC164PWR	296-14020-2-ND	8-Bit Parallel-Out Serial Shift Register *NEW!*	14-TSSOP	252.00/2,000		
SN74HC165D	296-8249-5-ND	8-Bit Parallel-Load Shift Register	16-SOP	.40	.32	.24
SN74HC165DR	296-8250-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.40	.32	.24
SN74HC165DR	296-8250-2-ND	8-Bit Parallel-Load Shift Register	16-SOP	270.00/2,500		
SN74HC165N	296-8251-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.40	.32	.24
SN74HC165NSR	296-8252-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.40	.32	.24
SN74HC165NSR	296-8252-2-ND	8-Bit Parallel-Load Shift Register	16-SOP	224.00/2,000		
SN74HC165PWR	296-8253-1-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	.40	.32	.24
SN74HC165PWR	296-8253-2-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	224.00/2,000		
SN74HC166D	296-8254-5-ND	8-Bit Parallel-Load Shift Register	16-SOP	.45	.36	.27
SN74HC166N	296-8255-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.45	.36	.27
SN74HC166NSR	296-13214-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.45	.36	.27
SN74HC166NSR	296-13214-2-ND	8-Bit Parallel-Load Shift Register	16-SOP	252.00/2,000		
SN74HC174D	296-1195-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.45	.36	.27
SN74HC174DR	296-1195-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.45	.36	.27
SN74HC174DR	296-1195-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	305.00/2,500		
SN74HC174N	296-1579-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.45	.36	.27
SN74HC174NSR	296-13215-1-ND	Hex D-Type Flip-Flop with Clear	16-SOP	.45	.36	.27
SN74HC174NSR	296-13215-2-ND	Hex D-Type Flip-Flop with Clear	16-SOP	252.00/2,000		
SN74HC175D	296-8256-5-ND	Quad D-Type Flip-Flop with Clear	16-SOP	.45	.36	.27
SN74HC175N	296-8257-5-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.45	.36	.27
SN74HC175PWR	296-8258-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	.45	.36	.27
SN74HC175PWR	296-8258-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	252.00/2,000		
SN74HC191D	296-8259-5-ND	4-Bit Synch. Up/Down Binary Counter	16-SOP	.48	.36	.27
SN74HC191N	296-8260-5-ND	4-Bit Synch. Up/Down Binary Counter	16-Dip	.48	.36	.27
SN74HC191NSR	296-12890-1-ND	4-Bit Synch. Up/Down Binary Counter	16-SOP	.48	.36	.27
SN74HC191NSR	296-12890-2-ND	4-Bit Synch. Up/Down Binary Counter	16-SOP	320.00/2,000		
SN74HC193D	296-8261-5-ND	4-Bit Synch. Up/Down Counter (Dual Clock with Clear)	16-SOP	.48	.36	.27
SN74HC193N	296-8262-5-ND	4-Bit Synch. Up/Down Counter (Dual Clock with Clear)	16-Dip	.48	.36	.27
SN74HC193NSR	296-12891-1-ND	4-Bit Synch. Up/Down Counter (Dual Clock with Clear)	16-SOP	.48	.36	.27
SN74HC193NSR	296-12891-2-ND	4-Bit Synch. Up/Down Counter (Dual Clock with Clear)	16-SOP	320.00/2,000		
SN74HC240DW	296-8267-5-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.49	.40	.27
SN74HC240N	296-1580-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.49	.40	.27
SN74HC240PWR	296-8269-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.49	.40	.27
SN74HC240PWR	296-8269-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	270.00/2,000		
SN74HC241DW	296-8270-5-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.49	.40	.27
SN74HC241N	296-8271-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.49	.40	.27
SN74HC244DBR	296-8273-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.49	.40	.27
SN74HC244DBR	296-8273-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	270.00/2,000		
SN74HC244DW	296-1196-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.49	.40	.27
SN74HC244DWR	296-1196-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.49	.40	.27
SN74HC244DWR	296-1196-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	270.00/2,000		
SN74HC244N	296-1582-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.49	.40	.27
SN74HC244NSR	296-8274-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.52	.42	.29
SN74HC244NSR	296-8274-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	288.00/2,000		
SN74HC244PWR	296-8276-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.49	.40	.27
SN74HC244PWR	296-8276-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	270.00/2,000		
SN74HC245DBR	296-8277-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.49	.40	.27
SN74HC245DBR	296-8277-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	270.00/2,000		
SN74HC245DW	296-1197-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.49	.40	.27
SN74HC245DWR	296-1197-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.49	.40	.27
SN74HC245DWR	296-1197-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	270.00/2,000		
SN74HC245N	296-1584-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.49	.40	.27
SN74HC245NSR	296-8278-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.52	.42	.29
SN74HC245NSR	296-8278-2-ND	Tri-State Octal Bus Transceiver	20-SOP	288.00/2,000		
SN74HC245PWR	296-8279-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.49	.40	.27
SN74HC245PWR	296-8279-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	270.00/2,000		
SN74HC251D	296-8280-5-ND	Tri-State Data Selector/Mux	16-SOP	.40	.32	.24
SN74HC251DBR	296-12894-1-ND	Tri-State Data Selector/Mux	16-SSOP	.40	.32	.24
SN74HC251DBR	296-12894-2-ND	Tri-State Data Selector/Mux	16-SSOP	224.00/2,000		
SN74HC251N	296-1585-5-ND	Tri-State Data Selector/Mux	16-Dip	.40	.32	.24
SN74HC251NSR	296-13217-1-ND	Tri-State Data Selector/Mux	16-SOP	.40	.32	.24
SN74HC251NSR	296-13217-2-ND	Tri-State Data Selector/Mux	16-SOP	224.00/2,000		
SN74HC253D	296-8281-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOP	.40	.32	.24
SN74HC253DBR	296-8282-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	.40	.32	.24
SN74HC253DBR	296-8282-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	224.00/2,000		
SN74HC253N	296-8283-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-Dip	.40	.32	.24
SN74HC257D	296-8284-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	.40	.32	.24
SN74HC257N	296-8285-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-Dip	.40	.32	.24
SN74HC257NSR	296-8286-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	.40	.32	.24
SN74HC257NSR	296-8286-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	224.00/2,000		
SN74HC257PWR	296-8287-1-ND	Tri-State Quad 2-1 Line Data Selector/Mux	16-TSSOP	.40	.32	.24
SN74HC257PWR	296-8287-2-ND	Tri-State Quad 2-1 Line Data Selector/Mux	16-TSSOP	224.00/2,000		
SN74HC259D	296-8290-5-ND	8-Bit Addressable Latch	16-SOP	.40	.32	.24
SN74HC259N	296-8291-5-ND	8-Bit Addressable Latch	16-Dip	.40	.32	.24
SN74HC259NSR	296-12895-1-ND	8-Bit Addressable Latch	16-SOP	.40	.32	.24
SN74HC259NSR	296-12895-2-ND	8-Bit Addressable Latch	16-SOP	224.00/2,000		
SN74HC259PWR	296-8292-1-ND	8-Bit Addressable Latch	16-TSSOP	.40	.32	.24
SN74HC259PWR	296-8292-2-ND	8-Bit Addressable Latch	16-TSSOP	224.00/2,000		
SN74HC266D	296-8293-5-ND	Quad 2-Input EX-NOR Gate with Open-Drain Output	14-SOP	.50	.40	.30
SN74HC266N	296-8294-5-ND	Quad 2-Input EX-NOR Gate with Open-Drain Output	14-Dip	.50	.40	.30
SN74HC273DBR	296-8295-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.40	.32	.24
SN74HC273DBR	296-8295-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	224.00/2,000		
SN74HC273DW	296-1198-5-ND	Octal D-Type Flip-Flop	20-SOIC	.40	.32	.24
SN74HC273DWR	296-1198-1-ND	Octal D-Type Flip-Flop	20-SOIC	.40	.32	.24
SN74HC273DWR	296-1198-2-ND	Octal D-Type Flip-Flop	20-SOIC	224.00/2,000		
SN74HC273N	296-1587-5-ND	Octal D-Type Flip-Flop	20-Dip	.40	.32	.24
SN74HC273NSR	296-8296-1-ND	Octal D-Type Flip-Flop with Clear	20-SOP	.40	.32	.24
SN74HC273NSR	296-8296-2-ND	Octal D-Type Flip-Flop with Clear	20-SOP	224.00/2,000		
SN74HC273PWR	296-8297-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.40	.32	.24
SN74HC273PWR	296-8297-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	224.00/2,000		
SN74HC365D	296-8303-5-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC365N	296-8304-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.52	.39	.30
SN74HC365NSR	296-12897-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC365NSR	296-12897-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP	346.00/2,000		
SN74HC367D	296-8305-5-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC367N	296-8306-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.52	.39	.30
SN74HC367NSR	296-12898-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC367NSR	296-12898-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP	346.00/2,000		
SN74HC368D	296-8307-5-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC368N	296-8308-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.52	.39	.30
SN74HC373DBR	296-8309-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.49	.40	.27
SN74HC373DBR	296-8309-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	270.00/2,000		
SN74HC373DW	296-1200-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
SN74HC373DWR	296-1200-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
SN74HC373DWR	296-1200-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	270.00/2,000		
SN74HC373N	296-1591-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.49	.40	.27
SN74HC373NSR	296-8310-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.52	.42	.29
SN74HC373NSR	296-8310-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	288.00/2,000		
SN74HC373PWR	296-8311-1-ND	Tri-St. Octal Transp. D-Type Latch	20-TSSOP	.49	.40	.27
SN74HC373PWR	296-8311-2-ND	Tri-St. Octal Transp. D-Type Latch	20-TSSOP	270.00/2,000		
SN74HC374DBR	296-8312-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.49	.40	.27
SN74HC374DBR	296-8312-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	270.00/2,000		
SN74HC374DW	296-1201-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74HC374DWR	296-1201-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74HC374DWR	296-1201-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	270.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC374N	296-1592-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
SN74HC374NSR	296-8313-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.52	.42	.29
SN74HC374NSR	296-8313-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	288.00/2,000		
SN74HC374PWR	296-8314-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.49	.40	.27
SN74HC374PWR	296-8314-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	270.00/2,000		
SN74HC377DW	296-9818-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	.40	.32	.24
SN74HC377DWR	296-9818-1-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	.40	.32	.24
SN74HC377DWR	296-9818-2-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	224.00/2,000		
SN74HC377N	296-8316-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-Dip	.40	.32	.24
SN74HC393D	296-8317-5-ND	Dual 4-Bit Binary Counter	14-SOP	.40	.32	.24
SN74HC393DBR	296-8318-1-ND	Dual 4-Bit Binary Counter	14-SSOP	.40	.32	.24
SN74HC393DBR	296-8318-2-ND	Dual 4-Bit Binary Counter	14-SSOP	224.00/2,000		
SN74HC393N	296-8319-5-ND	Dual 4-Bit Binary Counter	14-Dip	.40	.32	.24
SN74HC540DWR	296-8333-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.40	.32	.24
SN74HC540DWR	296-8333-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	224.00/2,000		
SN74HC540N	296-8334-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.40	.32	.24
SN74HC541DW	296-1202-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.40	.32	.24
SN74HC541DWR	296-1202-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.40	.32	.24
SN74HC541DWR	296-1202-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	224.00/2,000		
SN74HC541N	296-1594-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.40	.32	.24
SN74HC541NSR	296-13218-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.40	.32	.24
SN74HC541NSR	296-13218-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	224.00/2,000		
SN74HC541PWR	296-8335-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.40	.32	.24
SN74HC541PWR	296-8335-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	224.00/2,000		
SN74HC573ADW	296-1203-5-ND	Tri-State Octal D-Type Latch	20-SOIC	.49	.40	.27
SN74HC573ADWR	296-1203-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.49	.40	.27
SN74HC573ADWR	296-1203-2-ND	Tri-State Octal D-Type Latch	20-SOIC	270.00/2,000		
SN74HC573AN	296-1596-5-ND	Tri-State Octal D-Type Latch	20-Dip	.49	.40	.27
SN74HC573APWR	296-8338-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.49	.40	.27
SN74HC573APWR	296-8338-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	270.00/2,000		
SN74HC574DW	296-1597-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74HC574DWR	296-1597-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74HC574DWR	296-1597-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	270.00/2,000		
SN74HC574N	296-1598-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
SN74HC574PWR	296-8339-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.49	.40	.27
SN74HC574PWR	296-8339-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	270.00/2,000		
SN74HC590AD	296-8340-5-ND	Tri-State 8-Bit Binary Counter	16-SOP	.50	.40	.30
SN74HC590ADW	296-8341-5-ND	Tri-State 8-Bit Binary Counter	16-SOP	.50	.40	.30
SN74HC590AN	296-1599-5-ND	Tri-State 8-Bit Binary Counter	16-Dip	.50	.40	.30
SN74HC594DW	296-8342-5-ND	8-Bit Shift Register with Output Register	16-SOP	.75	.63	.50
SN74HC594N	296-8343-5-ND	8-Bit Shift Register with Output Register	16-Dip	.75	.63	.50
SN74HC595D	296-8344-5-ND	Tri-State 8-Bit Shift Register	16-SOP	.45	.36	.27
SN74HC595DW	296-8345-5-ND	Tri-State 8-Bit Shift Register	16-SOP	.45	.36	.27
SN74HC595N	296-1600-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.45	.36	.27
SN74HC623DW	296-8346-5-ND	Tri-State Octal Bus Transceiver	20-SOP	5.20	4.16	3.51
SN74HC623N	296-8347-5-ND	Tri-State Octal Bus Transceiver	20-Dip	5.20	4.16	3.51
SN74HC640DW	296-8348-5-ND	Tri-State Octal Bus Transceiver	20-SOP	.80	.60	.45
SN74HC640N	296-8349-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.80	.60	.45
SN74HC645DW	296-8350-5-ND	Tri-State Octal Bus Transceiver	20-SOP	1.05	.88	.70
SN74HC645N	296-8351-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.05	.88	.70
SN74HC646DW	296-8352-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOP	1.11	.93	.74
SN74HC646NT	296-8353-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.11	.93	.74
SN74HC652DW	296-8354-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOP	1.35	1.13	.90
SN74HC652NT	296-8355-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.35	1.13	.90
SN74HC682DWR	296-8356-1-ND	8-Bit Magnitude Comparator	20-SOP	3.35	2.69	2.09
SN74HC682DWR	296-8356-2-ND	8-Bit Magnitude Comparator	20-SOP	3800.00/2,000		
SN74HC682N	296-8357-5-ND	8-Bit Magnitude Comparator	20-Dip	3.31	2.65	2.06
SN74HC684DW	296-8358-5-ND	8-Bit Magnitude Comparator	20-SOP	5.76	4.61	3.89
SN74HC684N	296-8359-5-ND	8-Bit Magnitude Comparator	20-Dip	5.76	4.61	3.89
SN74HC688DW	296-8360-5-ND	8-Bit Identity Comparator	20-SOP	2.43	1.95	1.52
SN74HC688N	296-8361-5-ND	8-Bit Identity Comparator	20-Dip	2.43	1.95	1.52
SN74HC688PWR	296-8362-1-ND	8-Bit Identity Comparator	20-TSSOP	2.43	1.95	1.52
SN74HC688PWR	296-8362-2-ND	8-Bit Identity Comparator	20-TSSOP	2754.00/2,000		
SN74HC4020D	296-8320-5-ND	14-Bit Asynchronous Binary Counter	16-SOP	1.33	1.06	.80
SN74HC4020N	296-8321-5-ND	14-Bit Asynchronous Binary Counter	16-Dip	1.33	1.06	.80
SN74HC4040D	296-8322-5-ND	12-Bit Asynchronous Binary Counter	16-SOP	.48	.36	.27
SN74HC4040DBR	296-8323-1-ND	12-Bit Asynchronous Binary Counter	16-SSOP	.48	.36	.27
SN74HC4040DBR	296-8323-2-ND	12-Bit Asynchronous Binary Counter	16-SSOP	320.00/2,000		
SN74HC4040N	296-8324-5-ND	12-Bit Asynchronous Binary Counter	16-Dip	.48	.36	.27
SN74HC4040PWR	296-8325-1-ND	12-Bit Asynchronous Binary Counter	16-TSSOP	.48	.36	.27
SN74HC4040PWR	296-8325-2-ND	12-Bit Asynchronous Binary Counter	16-TSSOP	320.00/2,000		
SN74HC4060D	296-8326-5-ND	14-Stage Asynchronous Binary Counter and Oscillator	16-SOP	.48	.36	.27
SN74HC4060N	296-8209-5-ND	14-Stage Asynchronous Binary Counter and Oscillator	16-Dip	.48	.36	.27
SN74HC4066D	296-8327-5-ND	Quad Bilateral Analog Switch	14-SOP	.75	.63	.50
SN74HC4066DBR	296-8328-1-ND	Quad Bilateral Analog Switch	14-SSOP	.75	.63	.50
SN74HC4066DBR	296-8328-2-ND	Quad Bilateral Analog Switch	14-SSOP	666.00/2,000		
SN74HC4066N	296-8329-5-ND	Quad Bilateral Analog Switch	14-Dip	.75	.63	.50
SN74HC4066PWR	296-8330-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.75	.63	.50
SN74HC4066PWR	296-8330-2-ND	Quad Bilateral Analog Switch	14-TSSOP	666.00/2,000		
SN74HC7001D	296-8363-5-ND	Quad AND Gate w/Schmitt-Trigger Input	14-SOP	1.23	1.03	.82
SN74HC7001N	296-8364-5-ND	Quad AND Gate w/Schmitt-Trigger Input	14-Dip	1.23	1.03	.82
SN74HC7002D	296-8365-5-ND	Quad NOR Gate w/Schmitt-Trigger Input	14-SOP	1.88	1.50	1.13
SN74HC7002N	296-8366-5-ND	Quad NOR Gate w/Schmitt-Trigger Input	14-Dip	1.88	1.50	1.13
SN74HC7032D	296-8367-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-SOP	2.20	1.76	1.32
SN74HC7032N	296-8368-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-Dip	2.20	1.76	1.32

HCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HCT00E	296-2081-5-ND	Quad 2-Input NAND Gate	14-Dip	.40	.32	.22
CD74HCT00M	296-9244-5-ND	Quad 2-Input NAND Gate	14-SOP	.40	.32	.22
CD74HCT00M96	296-14542-1-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HCT00M96	296-14542-2-ND	Quad 2-Input NAND Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HCT02E	296-2082-5-ND	Quad 2-Input NOR Gate	14-Dip	.40	.32	.22
CD74HCT02M	296-12825-5-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.32	.22
CD74HCT03E	296-2134-5-ND	Quad 2-Input NAND Gate with OD	14-Dip	.40	.32	.22
CD74HCT03M96	296-9245-1-ND	Quad 2-Input NAND Gate with OD	14-SOP	.40	.32	.22
CD74HCT03M96	296-9245-2-ND	Quad 2-Input NAND Gate with OD	14-SOP	225.00/2,500		
CD74HCT04E	296-2083-5-ND	Hex Inverter/Buffer	14-Dip	.40	.32	.22
CD74HCT04M	296-9246-5-ND	Hex Inverter/Buffer	14-SOP	.40	.32	.22
CD74HCT04M96	296-14543-1-ND	Hex Inverter/Buffer *NEW!*	14-SOIC	.40	.32	.22
CD74HCT04M96	296-14543-2-ND	Hex Inverter/Buffer *NEW!*	14-SOIC	225.00/2,500		
CD74HCT08E	296-2084-5-ND	Quad 2-Input AND Gate	14-Dip	.40	.32	.22
CD74HCT08M	296-12828-5-ND	Quad 2-Input AND Gate	14-SOIC	.40	.32	.22
CD74HCT08M96	296-14544-1-ND	Quad 2-Input AND Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HCT08M96	296-14544-2-ND	Quad 2-Input AND Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HCT10E	296-2086-5-ND	Triple 3-Input NAND Gate	14-Dip	.40	.32	.22
CD74HCT10M	296-9247-5-ND	Triple 3-Input NAND Gate	14-SOP	.40	.32	.22
CD74HCT10M96	296-14545-1-ND	Triple 3-Input NAND Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HCT10M96	296-14545-2-ND	Triple 3-Input NAND Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HCT11E	296-2087-5-ND	Triple 3-Input AND Gate	14-Dip	.40	.32	.22
CD74HCT11M96	296-9249-1-ND	Triple 3-Input AND Gate	14-SOP	.40	.32	.22
CD74HCT11M96	296-9249-2-ND	Triple 3-Input AND Gate	14-SOP	225.00/2,500		
CD74HCT14E	296-2093-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.40	.32	.22
CD74HCT14M	296-9253-5-ND	Hex Schmitt-Trigger Inverter	14-SOP	.40	.32	.22
CD74HCT14M96	296-14548-1-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-SOIC	.40	.32	.22
CD74HCT14M96	296-14548-2-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-SOIC	225.00/2,500		
CD74HCT21E	296-9262-5-ND	Dual 4-Input AND Gate	14-Dip	.40	.32	.22
CD74HCT30E	296-2111-5-ND	8-Input NAND Gate	14-Dip	.40	.32	.22
CD74HCT30M	296-9267-5-ND	8-Input NAND Gate	14-SOP	.40	.32	.22
CD74HCT32E	296-2112-5-ND	Quad 2-Input OR Gate	14-Dip	.40	.32	.22
CD74HCT32M	296-12842-5-ND	Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
CD74HCT32M96	296-14555-1-ND	Quad 2-Input OR Gate *NEW!*	14-SOIC	.40	.32	.22
CD74HCT32M96	296-14555-2-ND	Quad 2-Input OR Gate *NEW!*	14-SOIC	225.00/2,500		
CD74HCT73E	296-9297-5-ND	Dual Neg-Edge-Trig. J-K Flip-Flop with Reset	14-Dip	.80	.60	.45
CD74HCT73M	296-9298-5-ND	Dual Neg-Edge-Trig. J-K Flip-Flop with Reset	14-SOP	.80	.60	.45
CD74HCT74E	296-2132-5-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.40	.32	.22
CD74HCT74M	296-9299-5-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOP	.40	.32	.22
CD74HCT74M96	296-14561-1-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset *NEW!*	14-SOIC	.40	.32	.22
CD74HCT74M96	296-14561-2-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset *NEW!*	14-SOIC	225.00/2,500		
CD74HCT86E	296-2133-5-ND	Quad High Speed 2-Input EX-OR Gate	14-Dip	.40	.32	.22
CD74HCT86M	296-8201-5-ND	Quad High Speed 2-Input EX-OR Gate	14-SOP	.40	.32	.22
CD74HCT86M96	296-8201-1-ND	Quad High Speed 2-Input EX-OR Gate	14-SOP	.40	.32	.22
CD74HCT86M96	296-8201-2-ND	Quad High Speed 2-Input EX-OR Gate	14-SOP	225.00/2,500		
CD74HCT109E	296-2085-5-ND	Dual J-K Flip-Flop with Set and Reset	16-Dip	.72	.54	.41
CD74HCT112E	296-9248-5-ND	Dual Neg-Edge-Trig J-K Flip-Flop with Set and Reset	16-Dip	.43	.34	.26
CD74HCT123E	296-2088-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-Dip	.46	.37	.26
CD74HCT123M	296-9250-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOP	.46	.37	.26
CD74HCT125E	296-2089-5-ND	Tri-State Quad Buffer	14-Dip	.46	.37	.26
CD74HCT125M96	296-12829-1-ND	Tri-State Quad Buffer	14-SOIC	.46	.37	.26
CD74HCT125M96	296-12829-2-ND	Tri-State Quad Buffer	14-SOIC	297.50/2,500		
CD74HCT126E	296-9251-5-ND	Tri-State Quad Buffer	14-Dip	.46	.37	.26
CD74HCT126M	296-12830-5-ND	Tri-State Quad Buffer	14-SOIC	.46	.37	.26
CD74HCT126M96	296-14546-1-ND	Tri-State Quad Buffer *NEW!*	14-SOIC	.46	.37	.26
CD74HCT126M96	296-14546-2-ND	Tri-State Quad Buffer *NEW!*	14-SOIC	297.50/2,500		
CD74HCT132E	296-2090-5-ND	Quad 2-In NAND Schmitt Trigger	14-Dip	.46	.37	.26
CD74HCT132M96	296-12831-1-ND	Quad 2-In NAND Schmitt Trigger	14-SOIC	.46	.37	.26
CD74HCT132M96	296-12831-2-ND	Quad 2-In NAND Schmitt Trigger	14-SOIC	297.50/2,500		
CD74HCT138E	296-2091-5-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-Dip	.46	.37	.26
CD74HCT138M	296-12832-5-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC	.46	.37	.26
CD74HCT138M96	296-14547-1-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting *NEW!*	16-SOIC	.46	.37	.26
CD74HCT138M96	296-14547-2-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting *NEW!*	16-SOIC	297.50/2,500		
CD74HCT139E	296-2092-5-ND	Dual 2-of-4 Line Decoder/Demux	16-Dip	.46	.37	.26
CD74HCT147E	296-9252-5-ND	10-4 Line Priority Encoder	16-Dip	.50	.40	.30
CD74HCT151M	296-9254-5-ND	8-Input Multiplexer	16-SOP	.45	.36	.27
CD74HCT153E	296-2094-5-ND	Dual 4-Input Multiplexer	16-Dip	.45	.36	.27
CD74HCT153M	296-9255-5-ND	Dual 4-Input Multiplexer	16-SOP	.45	.36	.27
CD74HCT157E	296-2095-5-ND	Quad 2-Input Multiplexer	16-Dip	.50	.40	.30
CD74HCT161E	296-2096-5-ND	Synchronous 4-Bit Binary Counter, Asynchronous Reset	16-Dip	.45	.36	.27
CD74HCT161M	296-9256-5-ND	Synchronous 4-Bit Binary Counter, Asynchronous Reset	16-SOP	.45	.36	.27
CD74HCT163E	296-12833-5-ND	Presettable Synchronous Counter	16-Dip	.45	.36	.27
CD74HCT164E	296-2097-5-ND	8-Bit Serial-In Parallel-Out Shift Register	14-Dip	.50	.40	.30
CD74HCT164M	296-9257-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOP	.50	.40	.30
CD74HCT164M96	296-14549-1-ND	8-Bit Serial-In/Parallel-Out Shift Register *NEW!*	14-SOIC	.50	.40	.30
CD74HCT164M96	296-14549-2-ND	8-Bit Serial-In/Parallel-Out Shift Register *NEW!*	14-SOIC	337.50/2,500		
CD74HCT165E	296-2098-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.50	.40	.30
CD74HCT165M	296-9258-5-ND	Asynchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOP	.50	.40	.30
CD74HCT165M96	296-14551-1-ND	8-Bit Parallel-In Serial-Out Shift Register *NEW!*	16-SOIC	.50	.40	.30
CD74HCT165M96	296-14551-2-ND	8-Bit Parallel-In Serial-Out Shift Register *NEW!*	16-SOIC	337.50/2,500		
CD74HCT166E	296-2099-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.45	.36	.27
CD74HCT166M	296-9259-5-ND	Synchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOP	.45	.36	.27
CD74HCT174E	296-2100-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.50	.40	.30
CD74HCT174M	296-9260-5-ND	Hex D-Type Flip-Flop with Reset	16-SOP	.50	.40	.30
CD74HCT174M96	296-12836-1-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.50	.40	.30
CD74HCT174M96	296-12836-2-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	337.50/2,500		
CD74HCT175E	296-2101-5-ND	Quad D-Type Flip-Flop with Reset	16-Dip	.50	.40	.30
CD74HCT175M96	296-12837-1-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	.50	.40	.30
CD74HCT175M96	296-12837-2-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	337.50/2,500		
CD74HCT191M	296-9261-5-ND	Presettable Synchronous 4-Bit Binary Up/Down Counter	16-SOP	.48	.36	.27
CD74HCT221M96	296-9263-1-ND	Dual Monostable Multivibrator with Reset	16-SOIC	.56	.42	.32
CD74HCT221M96	296-9263-2-ND	Dual Monostable Multivibrator with Reset	16-SOIC	455.00/2,500		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HCT240E	296-2103-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-Dip	.49	.40	.27
CD74HCT240M	296-9264-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-SOP	.49	.40	.27
CD74HCT241M96	296-12838-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.49	.40	.27
CD74HCT241M96	296-12838-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	270.00/2,000		
CD74HCT243E	296-2145-5-ND	Tri-State High Speed CMOS Logic Quad Bus Transceiver	14-Dip	.96	.80	.64
CD74HCT244E	296-2104-5-ND	Tri-St. Octal Buffer/Line Driver	20-Dip	.49	.40	.27
CD74HCT244M	296-12839-5-ND	Tri-St. Octal Buffer/Line Driver	20-SOIC	.49	.40	.27
CD74HCT244M96	296-14552-1-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	.49	.40	.27
CD74HCT244M96	296-14552-2-ND	Tri-St. Octal Buffer/Line Driver *NEW!*	20-SOIC	270.00/2,000		
CD74HCT245E	296-2105-5-ND	Tri-St. Octal Bus Transceiver	20-Dip	.49	.40	.27
CD74HCT245M	296-12840-5-ND	Tri-St. Octal Bus Transceiver	20-SOIC	.49	.40	.27
CD74HCT245M96	296-14553-1-ND	Tri-St. Octal Bus Transceiver *NEW!*	20-SOIC	.49	.40	.27
CD74HCT245M96	296-14553-2-ND	Tri-St. Octal Bus Transceiver *NEW!*	20-SOIC	270.00/2,000		
CD74HCT251E	296-2106-5-ND	Tri-State 8-Input Multiplexer	16-Dip	.49	.40	.27
CD74HCT253E	296-2107-5-ND	Tri-State Dual 4-Input Multiplexer	16-Dip	.45	.36	.27
CD74HCT253M	296-9265-5-ND	Tri-State Dual 4-Input Multiplexer	16-SOP	.45	.36	.27
CD74HCT257E	296-2108-5-ND	Tri-St. Quad 2-Input Mux, Non-Invert Out	16-Dip	.45	.36	.27
CD74HCT258E	296-2146-5-ND	Tri-State Inverting High Speed CMOS Logic Quad 2-Input Multiplexer	16-Dip	.45	.36	.27
CD74HCT259E	296-2109-5-ND	8-Bit Addressable Latch	16-Dip	.49	.40	.27
CD74HCT273E	296-2110-5-ND	Octal D-Type Flip-Flop w/Reset	20-Dip	.45	.36	.27
CD74HCT273M	296-12841-5-ND	Octal D-Type Flip-Flop w/Reset	20-SOIC	.45	.36	.27
CD74HCT273M96	296-14554-1-ND	Octal D-Type Flip-Flop w/Reset *NEW!*	20-SOIC	.45	.36	.27
CD74HCT273M96	296-14554-2-ND	Octal D-Type Flip-Flop w/Reset *NEW!*	20-SOIC	252.00/2,000		
CD74HCT280E	296-2147-5-ND	High Speed CMOS Logic 9-Bit Odd/Even Parity Generator/Checker	14-Dip	.56	.42	.32
CD74HCT299M	296-9266-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOP	.72	.54	.41
CD74HCT356E	296-2148-5-ND	Tri-State High Speed CMOS Logic 8-Input Multiplexer/Register	20-Dip	1.08	.90	.72
CD74HCT365E	296-2149-5-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Inverting	16-Dip	.48	.36	.27
CD74HCT367E	296-2113-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.48	.36	.27
CD74HCT368M	296-9268-5-ND	Tri-St. Inverting Hex Buffer/Line Driver	16-SOIC	.48	.36	.27
CD74HCT373E	296-2114-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.49	.40	.27
CD74HCT373M	296-12843-5-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	.49	.40	.27
CD74HCT374E	296-2115-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
CD74HCT374M96	296-9269-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.49	.40	.27
CD74HCT374M96	296-9269-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	270.00/2,000		
CD74HCT377M	296-9427-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	.49	.40	.27
CD74HCT390M	296-9270-5-ND	Dual Decade Ripple Counter	16-SOP	.45	.36	.27
CD74HCT393E	296-2116-5-ND	Dual 4-Stage Binary Counter	14-Dip	.45	.36	.27
CD74HCT393M	296-9271-5-ND	Dual 4-Stage Binary Counter	14-SOP	.45	.36	.27
CD74HCT393M96	296-14556-1-ND	Dual 4-Stage Binary Counter *NEW!*	14-SOIC	.45	.36	.27
CD74HCT393M96	296-14556-2-ND	Dual 4-Stage Binary Counter *NEW!*	14-SOIC	305.00/2,500		
CD74HCT540E	296-2126-5-ND	Tri-State Inverting Octal Buffer Line Driver	20-Dip	.45	.36	.27
CD74HCT541E	296-2127-5-ND	Tri-State Octal Buffer Line Driver	20-Dip	.45	.36	.27
CD74HCT541M	296-9288-5-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOP	.45	.36	.27
CD74HCT541M96	296-9288-1-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOP	.45	.36	.27
CD74HCT541M96	296-9288-2-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOP	252.00/2,000		
CD74HCT563M	296-9289-5-ND	Tri-St. Octal Transparent Inverting Latch	20-SOP	.45	.36	.27
CD74HCT564M	296-9290-5-ND	Tri-St. Inverting Octal D-Type Flip-Flop	20-SOP	1.35	1.13	.90
CD74HCT573E	296-2128-5-ND	Tri-State Octal Transparent Latch	20-Dip	.49	.40	.27
CD74HCT573M96	296-9291-1-ND	Tri-State Octal Transparent Latch	20-SOP	.49	.40	.27
CD74HCT573M96	296-9291-2-ND	Tri-State Octal Transparent Latch	20-SOP	270.00/2,000		
CD74HCT574E	296-2129-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
CD74HCT574M96	296-9292-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.49	.40	.27
CD74HCT574M96	296-9292-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	270.00/2,000		
CD74HCT597E	296-2130-5-ND	8-Bit Shift Register with Input Storage	16-Dip	.96	.79	.58
CD74HCT597M96	296-12844-1-ND	8-Bit Shift Register with Input Storage	16-SOIC	1.05	.88	.70
CD74HCT597M96	296-12844-2-ND	8-Bit Shift Register with Input Storage	16-SOIC	1137.50/2,500		
CD74HCT646M96	296-9293-1-ND	Tri-State Octal D-Type Flip-Flop	24-SOP	1.11	.93	.74
CD74HCT646M96	296-9293-2-ND	Tri-State Octal D-Type Flip-Flop	24-SOP	984.00/2,000		
CD74HCT670M	296-9294-5-ND	4-By-4 Register File	16-SOP	4.73	3.78	2.94
CD74HCT688E	296-2131-5-ND	8-Bit Magnitude Comparator	20-Dip	.64	.48	.36
CD74HCT688M	296-9295-5-ND	8-Bit Magnitude Comparator	20-SOP	.64	.48	.36
CD74HCT4020M	296-9273-5-ND	14-Stage Binary Counter	16-SOP	.48	.36	.27
CD74HCT4024M	296-9274-5-ND	7-Stage Binary Ripple Counter	14-SOP	.48	.36	.27
CD74HCT4040E	296-2118-5-ND	12-Bit Binary Counter	16-Dip	.48	.36	.27
CD74HCT4040M96	296-14558-1-ND	12-Stage Binary Counter *NEW!*	16-SOIC	.48	.36	.27
CD74HCT4040M96	296-14558-2-ND	12-Stage Binary Counter *NEW!*	16-SOIC	390.00/2,500		
CD74HCT4046AM	296-9275-5-ND	Phase-Locked-Loop with VCO	16-SOP	.50	.40	.30
CD74HCT4046AM96	296-14559-1-ND	Phase-Locked-Loop with VCO *NEW!*	16-SOIC	.50	.40	.30
CD74HCT4046AM96	296-14559-2-ND	Phase-Locked-Loop with VCO *NEW!*	16-SOIC	337.50/2,500		
CD74HCT4051E	296-2119-5-ND	8-Channel Analog Mux/Demux	16-Dip	.50	.40	.30
CD74HCT4051M	296-9276-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4051M96	296-14560-1-ND	8-Channel Analog Mux/Demux *NEW!*	16-SOIC	.50	.40	.30
CD74HCT4051M96	296-14560-2-ND	8-Channel Analog Mux/Demux *NEW!*	16-SOIC	337.50/2,500		
CD74HCT4052E	296-2120-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.50	.40	.30
CD74HCT4052M96	296-9277-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4052M96	296-9277-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	337.50/2,500		
CD74HCT4053E	296-2121-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.50	.40	.30
CD74HCT4053M	296-9278-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4053PWR	296-9279-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HCT4053PWR	296-9279-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	280.00/2,000		
CD74HCT4060M	296-9280-5-ND	14-Stage Binary Counter with Oscillator	16-SOP	.50	.40	.30
CD74HCT4066M96	296-9281-1-ND	Quad Bilateral Switch	14-SOP	.45	.36	.27
CD74HCT4066M96	296-9281-2-ND	Quad Bilateral Switch	14-SOP	305.00/2,500		
CD74HCT4066E	296-2122-5-ND	Quad Bilateral Switch	14-Dip	.45	.36	.27
CD74HCT4094E	296-2123-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-Dip	.50	.40	.30
CD74HCT4094M	296-14291-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register *NEW!*	16-SOIC	.50	.40	.30
CD74HCT4316E	296-2124-5-ND	Quad Analog Switch	16-Dip	.56	.42	.32
CD74HCT4511E	296-9282-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-Dip	.76	.57	.43
CD74HCT4514E	296-9283-5-ND	4-to-16 Line Decoder/Demux with Input Latch	24-Dip	2.25	1.88	1.13
CD74HCT4520E	296-9284-5-ND	Dual Binary Up-Counter	16-Dip	.50	.40	.30
CD74HCT4520M	296-9285-5-ND	Dual Binary Up-Counter	16-SOP	.50	.40	.30
CD74HCT4538E	296-2125-5-ND	Dual Precision Monostable Multivibrator	16-Dip	.48	.36	.27
CD74HCT4538M	296-9286-5-ND	Dual Retrig. Precision Monostable Multivibrator	16-SOP	.48	.36	.27
CD74HCT7046AM	296-9296-5-ND	Phase-Locked Loop with VCO and Lock Detector	16-SOP	1.85	1.48	1.11
CD74HCT40103M	296-9272-5-ND	8-Stage Synchronous Down Counter	16-SOP	.80	.60	.45
CD74HCT40105E	296-2117-5-ND	4 Bits x 16 Words FIFO Register	16-Dip	.78	.65	.52
SN74HCT00D	296-8377-5-ND	Quad 2-Input NAND Gate	14-SOP	.40	.32	.22
SN74HCT00N	296-1603-5-ND	Quad 2-Input NAND Gate	14-Dip	.40	.32	.22
SN74HCT00PWR	296-8378-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.40	.32	.22
SN74HCT00PWR	296-8378-2-ND	Quad 2-Input NAND Gate	14-TSSOP	190.00/2,000		
SN74HCT02D	296-8379-5-ND	Quad 2-Input NOR Gate	14-SOP	.40	.32	.22
SN74HCT02N	296-8380-5-ND	Quad 2-Input NOR Gate	14-Dip	.40	.32	.22
SN74HCT04D	296-1205-5-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74HCT04DR	296-1205-1-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74HCT04DR	296-1205-2-ND	Hex Inverter	14-SOIC	225.00/2,500		
SN74HCT04N	296-1605-5-ND	Hex Inverter	14-Dip	.40	.32	.22
SN74HCT04PWR	296-8382-1-ND	Hex Inverter	14-TSSOP	.40	.32	.22
SN74HCT04PWR	296-8382-2-ND	Hex Inverter	14-TSSOP	190.00/2,000		
SN74HCT08D	296-8383-5-ND	Quad 2-Input AND Gate	14-SOP	.40	.32	.22
SN74HCT08DBR	296-8384-1-ND	Quad 2-Input AND Gate	14-SSOP	.40	.32	.22
SN74HCT08DBR	296-8384-2-ND	Quad 2-Input AND Gate	14-SSOP	190.00/2,000		
SN74HCT08N	296-1606-5-ND	Quad 2-Input AND Gate	14-Dip	.40	.32	.22
SN74HCT08PWR	296-8385-1-ND	Quad 2-Input AND Gate	14-TSSOP	.40	.32	.22
SN74HCT08PWR	296-8385-2-ND	Quad 2-Input AND Gate	14-TSSOP	190.00/2,000		
SN74HCT14D	296-8391-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.22
SN74HCT14DBR	296-8392-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.40	.32	.22
SN74HCT14DBR	296-8392-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	190.00/2,000		
SN74HCT14DGVR	296-8393-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.40	.32	.22
SN74HCT14DGVR	296-8393-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	190.00/2,000		
SN74HCT14N	296-8394-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.40	.32	.22
SN74HCT14PWR	296-8395-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.40	.32	.22
SN74HCT14PWR	296-8395-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	190.00/2,000		
SN74HCT32D	296-1614-5-ND	Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
SN74HCT32DBR	296-8410-1-ND	Quad 2-Input OR Gate	14-SSOP	.40	.32	.22
SN74HCT32DBR	296-8410-2-ND	Quad 2-Input OR Gate	14-SSOP	190.00/2,000		
SN74HCT32N	296-1615-5-ND	Quad 2-Input OR Gate	14-Dip	.40	.32	.22
SN74HCT32PWR	296-8411-1-ND	Quad 2-Input OR Gate	14-TSSOP	.40	.32	.22
SN74HCT32PWR	296-8411-2-ND	Quad 2-Input OR Gate	14-TSSOP	190.00/2,000		
SN74HCT74D	296-1211-5-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SOIC	.40	.32	.22
SN74HCT74D	296-1211-2-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SOIC	225.00/2,500		
SN74HCT74DR	296-1211-1-ND	Dual D-Type Flip-Flop	14-SOIC	.40	.32	.22
SN74HCT74N	296-1625-5-ND	Dual D-Type Flip-Flop	14-Dip	.40	.32	.22
SN74HCT74PWR	296-8429-1-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP	.40	.32	.22
SN74HCT74PWR	296-8429-2-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP	190.00/2,000		
SN74HCT125D	296-1206-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74HCT125DR	296-1206-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.39	.32	.22
SN74HCT125DR	296-1206-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	255.00/2,500		
SN74HCT125N	296-8386-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.39	.32	.22
SN74HCT138D	296-8387-5-ND	3-8 Line Decoder/Demultiplexer	14-SOP	.39	.32	.22
SN74HCT138N	296-1608-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.39	.32	.22
SN74HCT138PWR	296-8388-1-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	.39	.32	.22
SN74HCT138PWR	296-8388-2-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	216.00/2,000		
SN74HCT139D	296-8389-5-ND	Dual 2-to-4 Line Decoder/Demultiplexer	16-SOP	.39	.32	.22
SN74HCT139N	296-8390-5-ND	Dual 2-to-4 Line Decoder/Demultiplexer	16-Dip	.39	.32	.22
SN74HCT139PWR	296-11999-1-ND	Dual 2-to-4 Line Decoder/Demultiplexer	16-TSSOP	.39	.32	.22
SN74HCT139PWR	296-11999-2-ND	Dual 2-to-4 Line Decoder/Demultiplexer	16-TSSOP	216.00/2,000		
SN74HCT157D	296-8396-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-SOP	.45	.36	.27
SN74HCT157N	296-8397-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-Dip	.45	.36	.27
SN74HCT240DW	296-8398-5-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.49	.40	.27
SN74HCT240N	296-8399-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.49	.40	.27
SN74HCT240NSR	296-12899-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.52	.42	.29
SN74HCT240NSR	296-12899-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	288.00/2,000		
SN74HCT240PWR	296-13631-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.49	.40	.27
SN74HCT240PWR	296-13631-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	270.00/2,000		
SN74HCT244DBR	296-8400-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.49	.40	.27
SN74HCT244DBR	296-8400-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	270.00/2,000		
SN74HCT244DW	296-1207-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.49	.40	.27
SN74HCT244DWR	296-1207-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.49	.40	.27
SN74HCT244DWR	296-1207-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	270.00/2,000		
SN74HCT244N	296-1610-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.49	.40	.27
SN74HCT244NSR	296-8401-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.52	.42	.29
SN74HCT244NSR	296-8401-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	288.00/2,000		
SN74HCT244PWR	296-8402-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.49	.40	.27
SN74HCT244PWR	296-8402-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	270.00/2,000		
SN74HCT245DBR	296-8403-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.49	.40	.27
SN74HCT245DBR	296-8403-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	270.00/2,000		
SN74HCT245DW	296-1208-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.49	.40	.27
SN74HCT245DWR	296-1208-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.49	.40	.27
SN74HCT245DWR	296-1208-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	270.00/2,000		
SN74HCT245N	296-1612-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.49	.40	.27
SN74HCT245PWR	296-8404-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.49	.40	.27
SN74HCT245PWR	296-8404-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	270.00/2,000		
SN74HCT257D	296-8405-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	.45	.36	.27
SN74HCT257N	296-8406-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-Dip	.45	.36	.27
SN74HCT273DBR	296-8407-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.40	.32	.24
SN74HCT273DBR	296-8407-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	224.00/2,000		
SN74HCT273DW	296-8408-5-ND	Octal D-Type Flip-Flop with Clear	20-SOP	.40	.32	.24
SN74HCT273N	296-1613-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.40	.32	.24
SN74HCT273PWR	296-8409-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.40	.32	.24
SN74HCT273PWR	296-8409-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	224.00/2,000		
SN74HCT373DW	296-8412-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.49	.40	.27
SN74HCT373DWR	296-8412-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.49	.40	.27
SN74HCT373DWR	296-8412-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	270.00/2,000		
SN74HCT373N	296-1616-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.49	.40	.27
SN74HCT373NSR	296-8413-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.52	.42	.29
SN74HCT373NSR	296-8413-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	288.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HCT373PWR	296-8414-1-ND	Tri-St. Octal Transp. D-Type Latch	20-TSSOP	.49	.40	.27
SN74HCT373PWR	296-8414-2-ND	Tri-St. Octal Transp. D-Type Latch	20-TSSOP	270.00/2,000		
SN74HCT374DBR	296-8415-1-ND	Tri-St. Octal Transp. D-Type Flip-Flop	20-SSOP	.49	.40	.27
SN74HCT374DBR	296-8415-2-ND	Tri-St. Octal Transp. D-Type Flip-Flop	20-SSOP	270.00/2,000		
SN74HCT374DW	296-1209-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74HCT374DWR	296-1209-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74HCT374DWR	296-1209-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	270.00/2,000		
SN74HCT374N	296-1617-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
SN74HCT377DW	296-8416-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	.45	.36	.27
SN74HCT377N	296-8417-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-Dip	.45	.36	.27
SN74HCT540DW	296-8418-5-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.45	.36	.27
SN74HCT540N	296-8419-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.45	.36	.27
SN74HCT541DW	296-1618-5-ND	Octal Buffer/Line Driver	20-SOIC	.45	.36	.27
SN74HCT541N	296-1619-5-ND	Octal Buffer/Line Driver	20-Dip	.45	.36	.27
SN74HCT573DBR	296-8420-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.49	.40	.27
SN74HCT573DBR	296-8420-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	270.00/2,000		
SN74HCT573DW	296-1210-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.49	.40	.27
SN74HCT573DWR	296-1210-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.49	.40	.27
SN74HCT573DWR	296-1210-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	270.00/2,000		
SN74HCT573N	296-1621-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.49	.40	.27
SN74HCT574DW	296-1622-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.49	.40	.27
SN74HCT574N	296-1623-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.49	.40	.27
SN74HCT574PWR	296-8421-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.49	.40	.27
SN74HCT574PWR	296-8421-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	270.00/2,000		
SN74HCT623DW	296-8422-5-ND	Tri-State Octal Bus Transceiver	20-SOP	5.27	4.22	3.28
SN74HCT645DW	296-8423-5-ND	Tri-State Octal Bus Transceiver	20-SOP	1.05	.88	.70
SN74HCT645N	296-8424-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.05	.88	.70
SN74HCT646DW	296-8425-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOP	1.11	.93	.74
SN74HCT646NT	296-8426-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.11	.93	.74
SN74HCT652DW	296-1624-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.35	1.13	.90
SN74HCT652DWR	296-1624-1-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.35	1.13	.90
SN74HCT652DWR	296-1624-2-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1198.00/2,000		
SN74HCT652NT	296-8427-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.35	1.13	.90

HCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HCU04M	296-9432-5-ND	Hex Inverter/Buffer	14-SOP	.40	.32	.22
SN74HCU04D	296-9819-5-ND	Hex Inverter	14-SOP	.48	.36	.27
SN74HCU04N	296-9820-5-ND	Hex Inverter	14-Dip	.40	.32	.22
SN74HCU04PWR	296-9821-1-ND	Hex Inverter	14-TSSOP	.40	.32	.22
SN74HCU04PWR	296-9821-2-ND	Hex Inverter	14-TSSOP	190.00/2,000		

HSTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HSTL16918DGGR	296-9823-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	7.50	6.00	5.07
SN74HSTL16918DGGR	296-9823-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	9376.00/2,000		
SN74HSTL16919DGGR	296-13219-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch with Input Pullup Resistors	48-TSSOP	7.50	6.00	5.07
SN74HSTL16919DGGR	296-13219-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch with Input Pullup Resistors	48-TSSOP	9376.00/2,000		
SN74HSTL162822DGGR	296-9822-1-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	8.00	6.40	5.40
SN74HSTL162822DGGR	296-9822-2-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	10000.00/2,000		

LS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LS00N	296-1626-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.52	.39	.30
SN74LS00NSR	296-3616-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	224.00/2,000		
SN74LS00PSR	296-13220-1-ND	Quad 2-Input Positive NAND Gate	8-SOP	.40	.32	.24
SN74LS00PSR	296-13220-2-ND	Quad 2-Input Positive NAND Gate	8-SOP	224.00/2,000		
SN74LS02N	296-1627-5-ND	Quad 2-Input NOR Gate	14-Dip	.48	.36	.27
SN74LS02NSR	296-3618-2-ND	Quad 2-Input NOR Gate	14-SOP	224.00/2,000		
SN74LS04D	296-1628-5-ND	Hex Inverter	14-SOIC	.40	.32	.24
SN74LS04N	296-1629-5-ND	Hex Inverter	14-Dip	.40	.32	.24
SN74LS05D	296-1630-5-ND	Hex Inverter with OC Output	14-SOIC	.40	.32	.24
SN74LS05N	296-1631-5-ND	Hex Inverter with OC Output	14-Dip	.40	.32	.24
SN74LS07D	296-3626-5-ND	Hex Buffer/Driver with HV Output	14-SOP	.78	.65	.52
SN74LS07DBR	296-3627-1-ND	Hex Buffer/Driver with HV Output	14-SSOP	.78	.65	.52
SN74LS07DBR	296-3627-2-ND	Hex Buffer/Driver with HV Output	14-SSOP	692.00/2,000		
SN74LS07NSR	296-3628-1-ND	Hex Buffer/Driver with HV Output	14-SOP	.78	.65	.52
SN74LS07NSR	296-3628-2-ND	Hex Buffer/Driver with HV Output	14-SOP	692.00/2,000		
SN74LS08D	296-1632-5-ND	Quad 2-Input AND Gate	14-SOIC	.40	.32	.24
SN74LS08N	296-1633-5-ND	Quad 2-Input AND Gate	14-Dip	.40	.32	.24
SN74LS10N	296-1634-5-ND	Triple 3-Input NAND Gate	14-Dip	.40	.32	.24
SN74LS14D	296-1212-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.45	.36	.27
SN74LS14DR	296-1212-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.45	.36	.27
SN74LS14DR	296-1212-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	305.00/2,500		
SN74LS14N	296-1643-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.45	.36	.27
SN74LS20N	296-3670-5-ND	Dual 4-Input NAND Gate	14-Dip	.40	.32	.24
SN74LS21N	296-3672-5-ND	Dual 4-Input NAND Gate	14-Dip	.40	.32	.24
SN74LS30N	296-3693-5-ND	8-Input NAND Gate	14-Dip	.40	.32	.24
SN74LS32N	296-1658-5-ND	Quad 2-Input OR Gate	14-Dip	.40	.32	.24
SN74LS38N	296-1664-5-ND	Quad 2-Input NAND Buffer	14-Dip	.52	.39	.30
SN74LS47N	296-3712-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.20	1.00	.80
SN74LS47NSR	296-13223-1-ND	BCD to 7 Segment Decoder/Driver	16-SOP	1.20	1.00	.80
SN74LS47NSR	296-13223-2-ND	BCD to 7 Segment Decoder/Driver	16-SOP	1064.00/2,000		
SN74LS74AN	296-1668-5-ND	Dual D-Type Flip-Flop	14-Dip	.40	.32	.24
SN74LS86AN	296-1669-5-ND	Quad 2-Input EX-OR Gate	14-Dip	.40	.32	.24
SN74LS92D	296-3747-5-ND	Divide-by-Twelve Counter	14-SOIC	1.33	1.06	.80
SN74LS92NSR	296-13225-1-ND	Divide-by-Twelve Counter	14-SOP	1.33	1.06	.80
SN74LS92NSR	296-13225-2-ND	Divide-by-Twelve Counter	14-SOP	1378.00/2,000		
SN74LS93N	296-3750-5-ND	4-Bit Binary Counter	14-Dip	1.33	1.06	.80
SN74LS122N	296-3639-5-ND	Retriggerable Monostable Multivibrator	14-Dip	.56	.42	.32
SN74LS122NSR	296-13221-1-ND	Retriggerable Monostable Multivibrator	14-SOP	.56	.42	.32
SN74LS122NSR	296-13221-2-ND	Retriggerable Monostable Multivibrator	14-SOP	372.00/2,000		
SN74LS123D	296-1635-5-ND	Dual Monostable Multivibrator	16-SOIC	.48	.36	.27
SN74LS123N	296-1636-5-ND	Dual Monostable Multivibrator	16-Dip	.48	.36	.27
SN74LS125AD	296-1637-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.48	.36	.27
SN74LS125AN	296-1638-5-ND	Tri-State Quad Bus Buffer	14-Dip	.48	.36	.27
SN74LS138N	296-1639-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.48	.36	.27
SN74LS139AN	296-1640-5-ND	Dual 2-4 Line Decoder	16-Dip	.48	.36	.27
SN74LS145N	296-1641-5-ND	BCD-To-Decimal Decoder/Driver	16-Dip	.84	.63	.48
SN74LS148N	296-3651-5-ND	8-3 Line Priority Encoder	16-Dip	.93	.78	.62
SN74LS151N	296-1644-5-ND	8-1 Data Selector/Multiplexer	16-Dip	.56	.42	.32
SN74LS157N	296-1645-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.56	.42	.32
SN74LS157NSR	296-3659-2-ND	Quad 2-1 Line Data Selector/Mux	16-SOP	372.00/2,000		
SN74LS161AN	296-1646-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.56	.42	.32
SN74LS161ANSR	296-3660-2-ND	4-Bit Synchronous Binary Counter	16-SOP	372.00/2,000		
SN74LS164N	296-1647-5-ND	8-Bit Shift Register	14-Dip	.56	.42	.32
SN74LS175N	296-1648-5-ND	Quad D-Type Flip-Flop	16-Dip	.48	.36	.27
SN74LS193N	296-1649-5-ND	4-Bit Up/Down Counter	16-Dip	.88	.66	.50
SN74LS240DW	296-1650-5-ND	Octal Buffer/Line Driver	20-SOIC	.48	.36	.27
SN74LS240N	296-1651-5-ND	Octal Buffer/Line Driver	20-Dip	.48	.36	.27
SN74LS244DW	296-1213-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.48	.36	.27
SN74LS244DWR	296-1213-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.48	.36	.27
SN74LS244DWR	296-1213-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	320.00/2,000		
SN74LS244N	296-1653-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.48	.36	.27
SN74LS244NSR	296-3676-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.48	.36	.27
SN74LS244NSR	296-3676-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	320.00/2,000		
SN74LS245DW	296-1214-5-ND	Octal Bus Transceiver	20-SOIC	.48	.36	.27
SN74LS245DWR	296-1214-1-ND	Octal Bus Transceiver	20-SOIC	.48	.36	.27
SN74LS245DWR	296-1214-2-ND	Octal Bus Transceiver	20-SOIC	320.00/2,000		
SN74LS245N	296-1655-5-ND	Octal Bus Transceiver	20-Dip	.48	.36	.27
SN74LS247D	296-3678-5-ND	BCD to 7-Segment Decoder/Driver	16-SOIC	1.14	.95	.76
SN74LS247N	296-3679-5-ND	BCD to-7-Segment Decoder/Driver	16-Dip	1.14	.95	.76
SN74LS257BN	296-1656-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.68	.51	.39
SN74LS266N	296-3681-5-ND	Quad 2-In EX-NOR Gate with OC Out	14-Dip	.80	.60	.45
SN74LS273N	296-1657-5-ND	Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74LS279ANSR	296-13222-1-ND	Quad S-R Latch	16-SOP	.80	.60	.45
SN74LS279ANSR	296-13222-2-ND	Quad S-R Latch	16-SOP	532.00/2,000		
SN74LS368AN	296-3702-5-ND	6-Bit Buffer/Line Driver	16-Dip	.76	.57	.43
SN74LS373DW	296-1659-5-ND	Octal D-Type Latch	20-SOIC	.48	.36	.27
SN74LS373N	296-1660-5-ND	Octal D-Type Latch	20-Dip	.48	.36	.27
SN74LS374DW	296-1661-5-ND	Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LS374N	296-1662-5-ND	Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74LS377N	296-1663-5-ND	Octal D-Type Flip-Flop	20-Dip	.90	.75	.60
SN74LS393N	296-1665-5-ND	Dual 4-Bit Binary Counter	14-Dip	.92	.69	.52
SN74LS423N	296-3707-5-ND	Dual Retrig. Mono Multivibrator	16-Dip	1.35	1.13	.90
SN74LS541N	296-1666-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.84	.63	.48
SN74LS645-1NSR	296-13224-1-ND	Tri-State Octal Bus Transceiver	20-SOP	1.98	1.58	1.19
SN74LS645-1NSR	296-13224-2-ND	Tri-State Octal Bus Transceiver	20-SOP	2054.00/2,000		
SN74LS688N	296-1667-5-ND	8-Bit Magnitude Comparator	20-Dip	1.41	1.18	.94

LV Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV00AD	296-1670-5-ND	Quad 2-Input Pos. NAND Gate	14-SOIC	.46	.37	.26
SN74LV00ADR	296-1670-1-ND	Quad 2-Input Pos. NAND Gate	14-SOIC	.46	.37	.26
SN74LV00ADR	296-1670-2-ND	Quad 2-Input Pos. NAND Gate	14-SOIC	297.50/2,500		
SN74LV00ADBR	296-3751-1-ND	Quad 2-Input Pos. NAND Gate	14-SSOP	.46	.37	.26
SN74LV00ADBR	296-3751-2-ND	Quad 2-Input Pos. NAND Gate	14-SSOP	252.00/2,000		
SN74LV00ADGVR	296-3752-1-ND	Quad 2-Input Pos. NAND Gate	14-TVSOP	.46	.37	.26
SN74LV00ADGVR	296-3752-2-ND	Quad 2-Input Pos. NAND Gate	14-TVSOP	252.00/2,000		
SN74LV00ANSR	296-13226-1-ND	Quad 2-Input Pos. NAND Gate	14-SOP	.46	.37	.26
SN74LV00ANSR	296-13226-2-ND	Quad 2-Input Pos. NAND Gate	14-SOP	252.00/2,000		
SN74LV00APWR	296-3753-1-ND	Quad 2-Input Pos. NAND Gate	14-TSSOP	.46	.37	.26
SN74LV00APWR	296-3753-2-ND	Quad 2-Input Pos. NAND Gate	14-TSSOP	252.00/2,000		
SN74LV00ARGYR	296-13927-1-ND	Quad 2-Input Pos. NAND Gate *NEW!*	14-QFN	.46	.37	.26
SN74LV00ARGYR	296-13927-2-ND	Quad 2-Input Pos. NAND Gate *NEW!*	14-QFN	126.00/1,000		
SN74LV02AD	296-1671-5-ND	Quad 2-Input NOR Gate	14-SOIC	.60	.45	.34
SN74LV02ADBR	296-3754-1-ND	Quad 2-Input NOR Gate	14-SSOP	.60	.45	.34
SN74LV02ADBR	296-3754-2-ND	Quad 2-Input NOR Gate	14-SSOP	400.00/2,000		
SN74LV02ARGYR	296-13928-1-ND	Quad 2-Input NOR Gate *NEW!*	14-QFN	.60	.45	.34
SN74LV02ARGYR	296-13928-2-ND	Quad 2-Input NOR Gate *NEW!*	14-QFN	200.00/1,000		
SN74LV04AD	296-1672-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74LV04ADBR	296-3755-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74LV04ADBR	296-3755-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74LV04ADGVR	296-3756-1-ND	Hex Inverter	14-TVSOP	.46	.37	.26
SN74LV04ADGVR	296-3756-2-ND	Hex Inverter	14-TVSOP	252.00/2,000		
SN74LV04APWR	296-3757-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74LV04APWR	296-3757-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74LV04ARGYR	296-13929-1-ND	Hex Inverter *NEW!*	14-QFN	.46	.37	.26
SN74LV04ARGYR	296-13929-2-ND	Hex Inverter *NEW!*	14-QFN	126.00/1,000		
SN74LV05ADGVR	296-14313-1-ND	Hex Inverter with OD Out *NEW!*	14-TVSOP	.60	.45	.34
SN74LV05ADGVR	296-14313-2-ND	Hex Inverter with OD Out *NEW!*	14-TVSOP	400.00/2,000		
SN74LV05ADR	296-3758-1-ND	Hex Inverter with OD Out	14-SOIC	.60	.45	.34
SN74LV05ADR	296-3758-2-ND	Hex Inverter with OD Out	14-SOIC	487.50/2,500		
SN74LV05APWR	296-3759-1-ND	Hex Inverter with OD Out	14-TSSOP	.60	.45	.34
SN74LV05APWR	296-3759-2-ND	Hex Inverter with OD Out	14-TSSOP	400.00/2,000		
SN74LV06ADBR	296-3760-1-ND	Hex Inverter Buffer/Driver w/OD Out	14-SSOP	.60	.45	.34
SN74LV06ADBR	296-3760-2-ND	Hex Inverter Buffer/Driver w/OD Out	14-SSOP	400.00/2,000		
SN74LV06ADGVR	296-3761-1-ND	Hex Inverter Buffer/Driver w/OD Out	14-TVSOP	.60	.45	.34
SN74LV06ADGVR	296-3761-2-ND	Hex Inverter Buffer/Driver w/OD Out	14-TVSOP	400.00/2,000		
SN74LV06ADR	296-3762-1-ND	Hex Inverter Buffer/Driver w/OD Out	14-SOIC	.60	.45	.34
SN74LV06ADR	296-3762-2-ND	Hex Inverter Buffer/Driver w/OD Out	14-SOIC	487.50/2,500		
SN74LV06APWR	296-3763-1-ND	Hex Inverter Buffer/Driver w/OD Out	14-TSSOP	.60	.45	.34
SN74LV06APWR	296-3763-2-ND	Hex Inverter Buffer/Driver w/OD Out	14-TSSOP	400.00/2,000		
SN74LV07AD	296-3764-5-ND	Hex Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV07ADR	296-3764-1-ND	Hex Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV07ADR	296-3764-2-ND	Hex Buffer/Driver with OD Out	14-SOIC	487.50/2,500		
SN74LV07ADBR	296-3765-1-ND	Hex Buffer/Driver with OD Out	14-SSOP	.60	.45	.34
SN74LV07ADBR	296-3765-2-ND	Hex Buffer/Driver with OD Out	14-SSOP	400.00/2,000		
SN74LV07ADGVR	296-3766-1-ND	Hex Buffer/Driver with OD Out	14-TVSOP	.60	.45	.34
SN74LV07ADGVR	296-3766-2-ND	Hex Buffer/Driver with OD Out	14-TVSOP	400.00/2,000		
SN74LV07APWR	296-3767-1-ND	Hex Buffer/Driver with OD Out	14-TSSOP	.60	.45	.34
SN74LV07APWR	296-3767-2-ND	Hex Buffer/Driver with OD Out	14-TSSOP	400.00/2,000		
SN74LV08AD	296-1673-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74LV08ADBR	296-3768-1-ND	Quad 2-Input AND Gate	14-SSOP	.46	.37	.26
SN74LV08ADBR	296-3768-2-ND	Quad 2-Input AND Gate	14-SSOP	252.00/2,000		
SN74LV08ADGVR	296-3769-1-ND	Quad 2-Input AND Gate	14-TVSOP	.46	.37	.26
SN74LV08ADGVR	296-3769-2-ND	Quad 2-Input AND Gate	14-TVSOP	252.00/2,000		
SN74LV08APWR	296-3770-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
SN74LV08APWR	296-3770-2-ND	Quad 2-Input AND Gate	14-TSSOP	252.00/2,000		
SN74LV08ARGYR	296-13930-1-ND	Quad 2-Input AND Gate *NEW!*	14-QFN	.46	.37	.26
SN74LV08ARGYR	296-13930-2-ND	Quad 2-Input AND Gate *NEW!*	14-QFN	126.00/1,000		
SN74LV10AD	296-3771-5-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74LV10ADR	296-3771-1-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74LV10ADR	296-3771-2-ND	Triple 3-Input NAND Gate	14-SOIC	297.50/2,500		
SN74LV10ADBR	296-3772-1-ND	Triple 3-Input NAND Gate	14-SSOP	.46	.37	.26
SN74LV10ADBR	296-3772-2-ND	Triple 3-Input NAND Gate	14-SSOP	252.00/2,000		
SN74LV10ADGVR	296-3773-1-ND	Triple 3-Input NAND Gate	14-TVSOP	.46	.37	.26

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV10ADGVR	296-3773-2-ND	Triple 3-Input NAND Gate	14-TVSOP	252.00/2,000		
SN74LV10APWR	296-9824-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74LV10APWR	296-9824-2-ND	Triple 3-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74LV11ADBR	296-9825-1-ND	Triple 3-Input AND Gate	14-SSOP	.60	.45	.34
SN74LV11ADBR	296-9825-2-ND	Triple 3-Input AND Gate	14-SSOP	400.00/2,000		
SN74LV11ADGVR	296-9826-1-ND	Triple 3-Input AND Gate	14-TVSOP	.60	.45	.34
SN74LV11ADGVR	296-9826-2-ND	Triple 3-Input AND Gate	14-TVSOP	400.00/2,000		
SN74LV11ADR	296-9827-1-ND	Triple 3-Input AND Gate	14-SOP	.60	.45	.34
SN74LV11ADR	296-9827-2-ND	Triple 3-Input AND Gate	14-SOP	487.50/2,500		
SN74LV11APWR	296-9828-1-ND	Triple 3-Input AND Gate	14-TSSOP	.60	.45	.34
SN74LV11APWR	296-9828-2-ND	Triple 3-Input AND Gate	14-TSSOP	400.00/2,000		
SN74LV14AD	296-1678-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74LV14ADR	296-1678-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74LV14ADR	296-1678-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	297.50/2,500		
SN74LV14ADBR	296-3783-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74LV14ADBR	296-3783-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	252.00/2,000		
SN74LV14ADGVR	296-3784-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.46	.37	.26
SN74LV14ADGVR	296-3784-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	252.00/2,000		
SN74LV14APWR	296-3785-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	.26
SN74LV14APWR	296-3785-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74LV14ARGYR	296-13935-1-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-QFN	.46	.37	.26
SN74LV14ARGYR	296-13935-2-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-QFN	126.00/1,000		
SN74LV20AD	296-3794-5-ND	Dual 4-Input NAND Gate	14-SOIC	.60	.45	.34
SN74LV20ADR	296-3794-1-ND	Dual 4-Input NAND Gate	14-SOIC	.60	.45	.34
SN74LV20ADR	296-3794-2-ND	Dual 4-Input NAND Gate	14-SOIC	487.50/2,500		
SN74LV20ADBR	296-9838-1-ND	Dual 4-Input NAND Gate	14-SSOP	.60	.45	.34
SN74LV20ADBR	296-9838-2-ND	Dual 4-Input NAND Gate	14-SSOP	400.00/2,000		
SN74LV20ADGVR	296-3795-1-ND	Dual 4-Input NAND Gate	14-TVSOP	.60	.45	.34
SN74LV20ADGVR	296-3795-2-ND	Dual 4-Input NAND Gate	14-TVSOP	400.00/2,000		
SN74LV20APWR	296-3796-1-ND	Dual 4-Input NAND Gate	14-TSSOP	.60	.45	.34
SN74LV20APWR	296-3796-2-ND	Dual 4-Input NAND Gate	14-TSSOP	400.00/2,000		
SN74LV21ADR	296-9839-1-ND	Dual 4-Input AND Gate	14-SOP	.60	.45	.34
SN74LV21ADR	296-9839-2-ND	Dual 4-Input AND Gate	14-SOP	487.50/2,500		
SN74LV21ADBR	296-3798-1-ND	Dual 4-Input AND Gate	14-SSOP	.60	.45	.34
SN74LV21ADBR	296-3798-2-ND	Dual 4-Input AND Gate	14-SSOP	400.00/2,000		
SN74LV21ADGVR	296-3799-1-ND	Dual 4-Input AND Gate	14-TVSOP	.60	.45	.34
SN74LV21ADGVR	296-3799-2-ND	Dual 4-Input AND Gate	14-TVSOP	400.00/2,000		
SN74LV21APWR	296-3800-1-ND	Dual 4-Input AND Gate	14-TSSOP	.60	.45	.34
SN74LV21APWR	296-3800-2-ND	Dual 4-Input AND Gate	14-TSSOP	400.00/2,000		
SN74LV27ADR	296-3813-1-ND	Triple 3-Input NOR Gate	14-SOIC	.60	.45	.34
SN74LV27ADR	296-3813-2-ND	Triple 3-Input NOR Gate	14-SOIC	487.50/2,500		
SN74LV27ADBR	296-3814-1-ND	Triple 3-Input NOR Gate	14-SSOP	.60	.45	.34
SN74LV27ADBR	296-3814-2-ND	Triple 3-Input NOR Gate	14-SSOP	400.00/2,000		
SN74LV27ADGVR	296-3815-1-ND	Triple 3-Input NOR Gate	14-TVSOP	.60	.45	.34
SN74LV27ADGVR	296-3815-2-ND	Triple 3-Input NOR Gate	14-TVSOP	400.00/2,000		
SN74LV27APWR	296-3816-1-ND	Triple 3-Input NOR Gate	14-TSSOP	.60	.45	.34
SN74LV27APWR	296-3816-2-ND	Triple 3-Input NOR Gate	14-TSSOP	400.00/2,000		
SN74LV32AD	296-1686-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.46	.37	.26
SN74LV32ADBR	296-3817-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.46	.37	.26
SN74LV32ADBR	296-3817-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	252.00/2,000		
SN74LV32ADGVR	296-3818-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.46	.37	.26
SN74LV32ADGVR	296-3818-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP	252.00/2,000		
SN74LV32ANSR	296-13232-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.46	.37	.26
SN74LV32ANSR	296-13232-2-ND	Quad 2-Input Positive OR Gate	14-SOP	252.00/2,000		
SN74LV32APWR	296-3819-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.46	.37	.26
SN74LV32APWR	296-3819-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	252.00/2,000		
SN74LV32ARGYR	296-13941-1-ND	Quad 2-Input Positive OR Gate *NEW!*	14-QFN	.46	.37	.26
SN74LV32ARGYR	296-13941-2-ND	Quad 2-Input Positive OR Gate *NEW!*	14-QFN	126.00/1,000		
SN74LV74AD	296-1692-5-ND	Dual D-Type Flip-Flop	14-SOIC	.40	.32	.24
SN74LV74ADBR	296-3844-1-ND	Dual D-Type Flip-Flop	14-SSOP	.40	.32	.24
SN74LV74ADBR	296-3844-2-ND	Dual D-Type Flip-Flop	14-SSOP	224.00/2,000		
SN74LV74ADGVR	296-9842-1-ND	Dual D-Type Flip-Flop	14-TVSOP	.40	.32	.24
SN74LV74ADGVR	296-9842-2-ND	Dual D-Type Flip-Flop	14-TVSOP	224.00/2,000		
SN74LV74APWR	296-3846-1-ND	Dual D-Type Flip-Flop	14-TSSOP	.40	.32	.24
SN74LV74APWR	296-3846-2-ND	Dual D-Type Flip-Flop	14-TSSOP	224.00/2,000		
SN74LV74ARGYR	296-13953-1-ND	Dual D-Type Flip-Flop *NEW!*	14-QFN	.48	.38	.29
SN74LV74ARGYR	296-13953-2-ND	Dual D-Type Flip-Flop *NEW!*	14-QFN	133.00/1,000		
SN74LV86AD	296-1693-5-ND	Quad 2-Input EX-OR Gate	14-SOIC	.40	.32	.24
SN74LV86ADBR	296-14320-1-ND	Quad 2-Input EX-OR Gate *NEW!*	14-SSOP	.40	.32	.24
SN74LV86ADBR	296-14320-2-ND	Quad 2-Input EX-OR Gate *NEW!*	14-SSOP	224.00/2,000		
SN74LV86ADGVR	296-14321-1-ND	Quad 2-Input EX-OR Gate *NEW!*	14-TVSOP	.40	.32	.24
SN74LV86ADGVR	296-14321-2-ND	Quad 2-Input EX-OR Gate *NEW!*	14-TVSOP	224.00/2,000		
SN74LV86APWR	296-14322-1-ND	Quad 2-Input EX-OR Gate *NEW!*	14-TSSOP	.40	.32	.24
SN74LV86APWR	296-14322-2-ND	Quad 2-Input EX-OR Gate *NEW!*	14-TSSOP	224.00/2,000		
SN74LV123ADGVR	296-12991-1-ND	Dual Retrig. Monostable Multivibrator	16-TVSOP	.48	.36	.27
SN74LV123ADGVR	296-12991-2-ND	Dual Retrig. Monostable Multivibrator	16-TVSOP	320.00/2,000		
SN74LV123ADR	296-9829-1-ND	Dual Retrig. Monostable Multivibrator	16-SOP	.48	.36	.27
SN74LV123ADR	296-9829-2-ND	Dual Retrig. Monostable Multivibrator	16-SOP	390.00/2,500		
SN74LV123APWR	296-3774-1-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP	.48	.36	.27
SN74LV123APWR	296-3774-2-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP	320.00/2,000		
SN74LV123ARGYR	296-13931-1-ND	Dual Retrig. Monostable Multivibrator *NEW!*	16-QFN	.48	.36	.27
SN74LV123ARGYR	296-13931-2-ND	Dual Retrig. Monostable Multivibrator *NEW!*	16-QFN	160.00/1,000		
SN74LV125AD	296-1674-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.40	.30
SN74LV125ADBR	296-14314-1-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-SSOP	.50	.40	.30
SN74LV125ADBR	296-14314-2-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-SSOP	280.00/2,000		
SN74LV125ADGVR	296-3775-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.50	.40	.30
SN74LV125ADGVR	296-3775-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	280.00/2,000		
SN74LV125APWR	296-3776-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.50	.40	.30
SN74LV125APWR	296-3776-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	280.00/2,000		
SN74LV125ARGYR	296-13932-1-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	.50	.40	.30
SN74LV125ARGYR	296-13932-2-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	140.00/1,000		
SN74LV126AD	296-14315-5-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-SOIC	.50	.40	.30
SN74LV126ADGVR	296-14191-1-ND	Tri-St. Quad Bus Buffer Gate *NEW!*	14-TVSOP	.50	.40	.30
SN74LV126ADGVR	296-14191-2-ND	Tri-St. Quad Bus Buffer Gate *NEW!*	14-TVSOP	280.00/2,000		
SN74LV126ADR	296-14021-1-ND	Tri-St. Quad Bus Buffer Gate *NEW!*	14-SOIC	.50	.40	.30
SN74LV126ADR	296-14021-2-ND	Tri-St. Quad Bus Buffer Gate *NEW!*	14-SOIC	337.50/2,500		
SN74LV126APWR	296-12992-1-ND	Tri-St. Quad Bus Buffer Gate	14-TSSOP	.50	.40	.30
SN74LV126APWR	296-12992-2-ND	Tri-St. Quad Bus Buffer Gate	14-TSSOP	280.00/2,000		
SN74LV132AD	296-1675-5-ND	Quad NAND Gate	14-SOIC	.50	.40	.30
SN74LV132ADR	296-1675-1-ND	Quad NAND Gate	14-SOIC	.50	.40	.30
SN74LV132ADR	296-1675-2-ND	Quad NAND Gate	14-SOIC	337.50/2,500		
SN74LV132ADBR	296-3777-1-ND	Quad NAND Gate	14-SSOP	.50	.40	.30
SN74LV132ADBR	296-3777-2-ND	Quad NAND Gate	14-SSOP	280.00/2,000		
SN74LV132ADGVR	296-3778-1-ND	Quad NAND Gate	14-TVSOP	.50	.40	.30
SN74LV132ADGVR	296-3778-2-ND	Quad NAND Gate	14-TVSOP	280.00/2,000		
SN74LV132APWR	296-3779-1-ND	Quad NAND Gate	14-TSSOP	.50	.40	.30
SN74LV132APWR	296-3779-2-ND	Quad NAND Gate	14-TSSOP	280.00/2,000		
SN74LV138AD	296-1676-5-ND	3-8 Decoder/Demultiplexer	16-SOIC	.50	.40	.30
SN74LV138ADR	296-1676-1-ND	3-8 Decoder/Demultiplexer	16-SOIC	.50	.40	.30
SN74LV138ADR	296-1676-2-ND	3-8 Decoder/Demultiplexer	16-SOIC	337.50/2,500		
SN74LV138APWR	296-3780-1-ND	3-8 Decoder/Demultiplexer	16-TSSOP	.50	.40	.30
SN74LV138APWR	296-3780-2-ND	3-8 Decoder/Demultiplexer	16-TSSOP	280.00/2,000		
SN74LV138ARGYR	296-13933-1-ND	3-8 Decoder/Demultiplexer *NEW!*	16-QFN	.50	.40	.30
SN74LV138ARGYR	296-13933-2-ND	3-8 Decoder/Demultiplexer *NEW!*	16-QFN	140.00/1,000		
SN74LV139AD	296-1677-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.50	.40	.30
SN74LV139ADBR	296-3781-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.50	.40	.30
SN74LV139ADBR	296-3781-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	280.00/2,000		
SN74LV139APWR	296-3782-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.50	.40	.30
SN74LV139APWR	296-3782-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	280.00/2,000		
SN74LV139ARGYR	296-13934-1-ND	Dual 2-4 Decoder/Demultiplexer *NEW!*	16-QFN	.50	.40	.30
SN74LV139ARGYR	296-13934-2-ND	Dual 2-4 Decoder/Demultiplexer *NEW!*	16-QFN	140.00/1,000		
SN74LV157ADBR	296-9830-1-ND	Quad 2-1 Line Data Selector/Mux	16-SSOP	.88	.66	.50
SN74LV157ADBR	296-9830-2-ND	Quad 2-1 Line Data Selector/Mux	16-SSOP	586.00/2,000		
SN74LV157ADGVR	296-9831-1-ND	Quad 2-1 Line Data Selector/Mux.	16-TVSOP	.88	.66	.50
SN74LV157ADGVR	296-9831-2-ND	Quad 2-1 Line Data Selector/Mux.	16-TVSOP	586.00/2,000		
SN74LV157ADR	296-9832-1-ND	Quad 2-1 Line Data Selector/Mux	16-SOP	.88	.66	.50
SN74LV157ADR	296-9832-2-ND	Quad 2-1 Line Data Selector/Mux	16-SOP	715.00/2,500		
SN74LV157APWR	296-9833-1-ND	Quad 2-1 Line Data Selector/Mux.	16-TSSOP	.88	.66	.50
SN74LV157APWR	296-9833-2-ND	Quad 2-1 Line Data Selector/Mux.	16-TSSOP	586.00/2,000		
SN74LV161ADBR	296-12342-1-ND	4-Bit Synch. Binary Counter	16-SSOP	.88	.66	.50
SN74LV161ADBR	296-12342-2-ND	4-Bit Synch. Binary Counter	16-SSOP	586.00/2,000		
SN74LV161ADGVR	296-12343-1-ND	4-Bit Synch. Binary Counter	16-TVSOP	.88	.66	.50
SN74LV161ADGVR	296-12343-2-ND	4-Bit Synch. Binary Counter	16-TVSOP	586.00/2,000		
SN74LV161ADR	296-13227-1-ND	4-Bit Synch. Binary Counter	16-SOIC	.88	.66	.50
SN74LV161ADR	296-13227-2-ND	4-Bit Synch. Binary Counter	16-SOIC	715.00/2,500		
SN74LV161APWR	296-12344-1-ND	4-Bit Synch. Binary Counter	16-TSSOP	.88	.66	.50
SN74LV161APWR	296-12344-2-ND	4-Bit Synch. Binary Counter	16-TSSOP	586.00/2,000		
SN74LV163ADBR	296-12345-1-ND	4-Bit Synch. Binary Counter	16-SSOP	.88	.66	.50
SN74LV163ADBR	296-12345-2-ND	4-Bit Synch. Binary Counter	16-SSOP	586.00/2,000		
SN74LV163ADGVR	296-12346-1-ND	4-Bit Synch. Binary Counter	16-TVSOP	.88	.66	.50
SN74LV163ADGVR	296-12346-2-ND	4-Bit Synch. Binary Counter	16-TVSOP	586.00/2,000		
SN74LV163ADR	296-11666-1-ND	4-Bit Synch. Binary Counter	16-SOIC	.88	.66	.50
SN74LV163ADR	296-11666-2-ND	4-Bit Synch. Binary Counter	16-SOIC	715.00/2,500		
SN74LV163APWR	296-12347-1-ND	4-Bit Synch. Binary Counter	16-TSSOP	.88	.66	.50
SN74LV163APWR	296-12347-2-ND	4-Bit Synch. Binary Counter	16-TSSOP	586.00/2,000		
SN74LV163ARGYR	296-13936-1-ND	4-Bit Synch. Binary Counter *NEW!*	16-QFN	.96	.72	.54
SN74LV163ARGYR	296-13936-2-ND	4-Bit Synch. Binary Counter *NEW!*	16-QFN	319.00/1,000		
SN74LV164AD	296-1680-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.80	.60	.45
SN74LV164ADBR	296-3787-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SSOP	.80	.60	.45
SN74LV164ADBR	296-3787-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SSOP	532.00/2,000		
SN74LV164ANSR	296-13228-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP	.80	.60	.45
SN74LV164ANSR	296-13228-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP	532.00/2,000		
SN74LV164APWR	296-3788-1-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	.80	.60	.45
SN74LV164APWR	296-3788-2-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	532.00/2,000		
SN74LV165AD	296-1681-5-ND	8-Bit Parallel Load Shift Register	16-SOP	.80	.60	.45
SN74LV165ADGVR	296-14316-1-ND	8-Bit Parallel Load Shift Register *NEW!*	16-TVSOP	.80	.60	.45
SN74LV165ADGVR	296-14316-2-ND	8-Bit Parallel Load Shift Register *NEW!*	16-TVSOP	532.00/2,000		
SN74LV165APWR	296-3790-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	.80	.60	.45
SN74LV165APWR	296-3790-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP	532.00/2,000		
SN74LV165ARGYR	296-13937-1-ND	8-Bit Parallel Load Shift Register *NEW!*	16-QFN	.86	.65	.49
SN74LV165ARGYR	296-13937-2-ND	8-Bit Parallel Load Shift Register *NEW!*	16-QFN	286.00/1,000		
SN74LV166ADBR	296-9834-1-ND	8-Bit Parallel Load Shift Register	16-SSOP	.75	.63	.50
SN74LV166ADBR	296-9834-2-ND	8-Bit Parallel Load Shift Register	16-SSOP	666.00/2,000		
SN74LV166ADGVR	296-9835-1-ND	8-Bit Parallel Load Shift Register	16-TVSOP	.75	.63	.50
SN74LV166ADGVR	296-9835-2-ND	8-Bit Parallel Load Shift Register	16-TVSOP	666.00/2,000		
SN74LV166ADR	296-9836-1-ND	8-Bit Parallel Load Shift Register	16-SOP	.75	.63	.50
SN74LV166ADR	296-9836-2-ND	8-Bit Parallel Load Shift Register	16-SOP	812.50/2,500		
SN74LV166APWR	296-9837-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	.75	.63	.50
SN74LV166APWR	296-9837-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP	666.00/2,000		
SN74LV174AD	296-3791-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.64	.48	.36
SN74LV174APWR	296-3792-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.64	.48	.36
SN74LV174APWR	296-3792-2-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	426.00/2,000		
SN74LV175AD	296-1682-5-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.88	.66	.50
SN74LV175ANSR	296-13229-1-ND	Quad D-Type Flip-Flop with Clear	16-SOP	.88	.66	.50
SN74LV175ANSR	296-13229-2-ND	Quad D-Type Flip-Flop with Clear	16-SOP	586.00/2,000		
SN74LV175APWR	296-3793-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	.88	.66	.50
SN74LV175APWR	296-3793-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	586.00/2,000		
SN74LV221AD	296-3801-5-ND	Dual Monostable Multivibrator	16-SOIC	1.20	1.00	.80
SN74LV221ADR	296-3801-1-ND	Dual Monostable Multivibrator	16-SOIC	1.20	1.00	.80
SN74LV221ADR	296-3801-2-ND	Dual Monostable Multivibrator	16-SOIC	1300.00/2,500		
SN74LV221ANSR	296-12473-1-ND	Dual Monostable Multivibrator	16-SOP	1.20	1.00	.80
SN74LV221ANSR	296-12473-2-ND	Dual Monostable Multivibrator	16-SOP	1064.00/2,000		
SN74LV240ADBR	296-3802-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.48	.36	.27
SN74LV240ADBR	296-3802-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	320.00/2,000		
SN74LV240ADGVR	296-3803-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.48	.36	.27
SN74LV240ADGVR	296-3803-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	320.00/2,000		
SN74LV240ADW	296-1683-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74LV240APWR	296-12348-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74LV240APWR	296-12348-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74LV244ADBR	296-3804-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.48	.36	.27
SN74LV244ADBR	296-3804-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	320.00/2,000		
SN74LV244ADGVR	296-3805-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.48	.36	.27
SN74LV244ADGVR	296-3805-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	320.00/2,000		
SN74LV244ADW	296-1684-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74LV244ANSR	296-13230-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.48	.36	.27
SN74LV244ANSR	296-13230-2-ND	Tri-State Octal Buffer/Driver	20-SOP	320.00/2,000		
SN74LV244APWR	296-3806-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV244APWR	296-3806-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74LV244ARGYR	296-13938-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN	.56	.42	.32
SN74LV244ARGYR	296-13938-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN	186.00/1,000		
SN74LV245ADBR	296-3807-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.48	.36	.27
SN74LV245ADBR	296-3807-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	320.00/2,000		
SN74LV245ADGVR	296-3808-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.48	.36	.27
SN74LV245ADGVR	296-3808-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	320.00/2,000		
SN74LV245ADW	296-1685-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.36	.27
SN74LV245AGQNR	296-12091-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.48	.36	.27
SN74LV245AGQNR	296-12091-2-ND	Tri-State Octal Bus Transceiver	20-BGA	160.00/1,000		
SN74LV245ANSR	296-13231-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.48	.36	.27
SN74LV245ANSR	296-13231-2-ND	Tri-State Octal Bus Transceiver	20-SOP	320.00/2,000		
SN74LV245APWR	296-3809-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.48	.36	.27
SN74LV245APWR	296-3809-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	320.00/2,000		
SN74LV245ARGYR	296-13939-1-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	.56	.42	.32
SN74LV245ARGYR	296-13939-2-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	186.00/1,000		
SN74LV273ADBR	296-12349-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.96	.72	.54
SN74LV273ADBR	296-12349-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	638.00/2,000		
SN74LV273ADGVR	296-3810-1-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	.96	.72	.54
SN74LV273ADGVR	296-3810-2-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	638.00/2,000		
SN74LV273ADW	296-3811-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.96	.72	.54
SN74LV273APWR	296-3812-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.96	.72	.54
SN74LV273APWR	296-3812-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	638.00/2,000		
SN74LV273ARGYR	296-13940-1-ND	Octal D-Type Flip-Flop with Clear *NEW!*	20-QFN	.81	.68	.54
SN74LV273ARGYR	296-13940-2-ND	Octal D-Type Flip-Flop with Clear *NEW!*	20-QFN	359.00/1,000		
SN74LV367ADGVR	296-13491-1-ND	Tri-State Hex Buffer/Line Driver	16-TVSOP	1.05	.88	.70
SN74LV367ADGVR	296-13491-2-ND	Tri-State Hex Buffer/Line Driver	16-TVSOP	932.00/2,000		
SN74LV367APWR	296-12350-1-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	1.05	.88	.70
SN74LV367APWR	296-12350-2-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	932.00/2,000		
SN74LV373ADBR	296-14317-1-ND	Tri-State Octal D-Type Transparent Latch *NEW!*	20-SSOP	.48	.36	.27
SN74LV373ADBR	296-14317-2-ND	Tri-State Octal D-Type Transparent Latch *NEW!*	20-SSOP	320.00/2,000		
SN74LV373ADW	296-1687-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.48	.36	.27
SN74LV373AGQNR	296-12092-1-ND	Tri-State Octal D-Type Transparent Latch	20-BGA	.48	.36	.27
SN74LV373AGQNR	296-12092-2-ND	Tri-State Octal D-Type Transparent Latch	20-BGA	160.00/1,000		
SN74LV373APWR	296-14318-1-ND	Tri-State Octal D-Type Transparent Latch *NEW!*	20-TSSOP	.48	.36	.27
SN74LV373APWR	296-14318-2-ND	Tri-State Octal D-Type Transparent Latch *NEW!*	20-TSSOP	320.00/2,000		
SN74LV373ARGYR	296-13942-1-ND	Tri-State Octal D-Type Transparent Latch *NEW!*	20-QFN	.48	.36	.27
SN74LV373ARGYR	296-13942-2-ND	Tri-State Octal D-Type Transparent Latch *NEW!*	20-QFN	160.00/1,000		
SN74LV374ADBR	296-12553-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.48	.36	.27
SN74LV374ADBR	296-12553-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	320.00/2,000		
SN74LV374ADW	296-1688-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LV374AGQNR	296-12093-1-ND	Tri-State Octal D-Type Flip-Flop	20-BGA	.48	.36	.27
SN74LV374AGQNR	296-12093-2-ND	Tri-State Octal D-Type Flip-Flop	20-BGA	160.00/1,000		
SN74LV374APWR	296-3820-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74LV374APWR	296-3820-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74LV374ARGYR	296-13943-1-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-QFN	.48	.36	.27
SN74LV374ARGYR	296-13943-2-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-QFN	160.00/1,000		
SN74LV393ADBR	296-12351-1-ND	Dual 4-Bit Binary Counter	14-SSOP	.75	.63	.50
SN74LV393ADBR	296-12351-2-ND	Dual 4-Bit Binary Counter	14-SSOP	666.00/2,000		
SN74LV393ADGVR	296-13233-1-ND	Dual 4-Bit Binary Counter	14-TVSOP	.75	.63	.50
SN74LV393ADGVR	296-13233-2-ND	Dual 4-Bit Binary Counter	14-TVSOP	666.00/2,000		
SN74LV393ADR	296-11664-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.75	.63	.50
SN74LV393ADR	296-11664-2-ND	Dual 4-Bit Binary Counter	14-SOIC	812.50/2,500		
SN74LV393ANSR	296-14192-1-ND	Dual 4-Bit Binary Counter *NEW!*	14-SOIC	.75	.63	.50
SN74LV393ANSR	296-14192-2-ND	Dual 4-Bit Binary Counter *NEW!*	14-SOIC	666.00/2,000		
SN74LV393APWR	296-11643-1-ND	Dual 4-Bit Binary Counter	14-TSSOP	.75	.63	.50
SN74LV393APWR	296-11643-2-ND	Dual 4-Bit Binary Counter	14-TSSOP	666.00/2,000		
SN74LV540ADGVR	296-14319-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-TVSOP	.96	.72	.54
SN74LV540ADGVR	296-14319-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-TVSOP	638.00/2,000		
SN74LV540ADWR	296-3837-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.72	.54
SN74LV540ADWR	296-3837-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	638.00/2,000		
SN74LV541ADBR	296-3838-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.96	.72	.54
SN74LV541ADBR	296-3838-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	638.00/2,000		
SN74LV541ADW	296-1689-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.72	.54
SN74LV541APWR	296-13700-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74LV541APWR	296-13700-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LV541ARGYR	296-13949-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN	.81	.68	.54
SN74LV541ARGYR	296-13949-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN	359.00/1,000		
SN74LV573ADBR	296-3839-1-ND	Tri-State Octal D-Type Latch	20-SSOP	.48	.36	.27
SN74LV573ADBR	296-3839-2-ND	Tri-State Octal D-Type Latch	20-SSOP	320.00/2,000		
SN74LV573ADW	296-1690-5-ND	Tri-State Octal D-Type Latch	20-SOIC	.48	.36	.27
SN74LV573ADWR	296-1690-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.48	.36	.27
SN74LV573ADWR	296-1690-2-ND	Tri-State Octal D-Type Latch	20-SOIC	320.00/2,000		
SN74LV573AGQNR	296-12094-1-ND	Tri-State Octal Transparent D-Type Latch	20-BGA	.48	.36	.27
SN74LV573AGQNR	296-12094-2-ND	Tri-State Octal Transparent D-Type Latch	20-BGA	160.00/1,000		
SN74LV573APWR	296-3840-1-ND	Tri-State Octal D-Type Latch	20-TSSOP	.48	.36	.27
SN74LV573APWR	296-3840-2-ND	Tri-State Octal D-Type Latch	20-TSSOP	320.00/2,000		
SN74LV573ARGYR	296-13950-1-ND	Tri-State Octal D-Type Latch *NEW!*	20-QFN	.48	.36	.27
SN74LV573ARGYR	296-13950-2-ND	Tri-State Octal D-Type Latch *NEW!*	20-QFN	160.00/1,000		
SN74LV574ADW	296-1691-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LV574AGQNR	296-12095-1-ND	Tri-State D-Type Flip-Flop	20-BGA	.48	.36	.27
SN74LV574AGQNR	296-12095-2-ND	Tri-State D-Type Flip-Flop	20-BGA	160.00/1,000		
SN74LV574APWR	296-12285-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74LV574APWR	296-12285-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74LV574ARGYR	296-13951-1-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-QFN	.48	.36	.27
SN74LV574ARGYR	296-13951-2-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-QFN	160.00/1,000		
SN74LV594ADBR	296-3841-1-ND	8-Bit Shift Register w/Output Register	16-SSOP	.96	.72	.54
SN74LV594ADBR	296-3841-2-ND	8-Bit Shift Register w/Output Register	16-SSOP	638.00/2,000		
SN74LV595APWR	296-3843-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.96	.72	.54
SN74LV595APWR	296-3843-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	638.00/2,000		
SN74LV595ARGYR	296-13952-1-ND	Tri-State 8-Bit Shift Register *NEW!*	16-QFN	.81	.68	.54
SN74LV595ARGYR	296-13952-2-ND	Tri-State 8-Bit Shift Register *NEW!*	16-QFN	359.00/1,000		
SN74LV4040ADBR	296-3821-1-ND	12-Bit Async. Binary Counter	16-SSOP	1.20	1.00	.80
SN74LV4040ADBR	296-3821-2-ND	12-Bit Async. Binary Counter	16-SSOP	1064.00/2,000		
SN74LV4040ADGVR	296-3822-1-ND	12-Bit Async. Binary Counter	16-TVSOP	1.20	1.00	.80
SN74LV4040ADGVR	296-3822-2-ND	12-Bit Async. Binary Counter	16-TVSOP	1064.00/2,000		
SN74LV4040APWR	296-3824-1-ND	12-Bit Async. Binary Counter	16-TSSOP	1.20	1.00	.80
SN74LV4040APWR	296-3824-2-ND	12-Bit Async. Binary Counter	16-TSSOP	1064.00/2,000		
SN74LV4040ARGYR	296-13944-1-ND	12-Bit Async. Binary Counter *NEW!*	16-QFN	1.32	1.10	.88
SN74LV4040ARGYR	296-13944-2-ND	12-Bit Async. Binary Counter *NEW!*	16-QFN	585.00/1,000		
SN74LV4051ADBR	296-3825-1-ND	8-Channel Analog Mux/Demux	16-SSOP	.75	.63	.50
SN74LV4051ADBR	296-3825-2-ND	8-Channel Analog Mux/Demux	16-SSOP	666.00/2,000		
SN74LV4051ADGVR	296-3826-1-ND	8-Channel Analog Mux/Demux	16-TVSOP	.75	.63	.50
SN74LV4051ADGVR	296-3826-2-ND	8-Channel Analog Mux/Demux	16-TVSOP	666.00/2,000		
SN74LV4051ADR	296-3827-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.75	.63	.50
SN74LV4051ADR	296-3827-2-ND	8-Channel Analog Mux/Demux	16-SOIC	812.50/2,500		
SN74LV4051AN	296-3828-5-ND	8-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4051APWR	296-3829-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4051APWR	296-3829-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	666.00/2,000		
SN74LV4051ARGYR	296-13945-1-ND	8-Channel Analog Mux/Demux *NEW!*	16-QFN	.84	.70	.56
SN74LV4051ARGYR	296-13945-2-ND	8-Channel Analog Mux/Demux *NEW!*	16-QFN	372.00/1,000		
SN74LV4052ADGVR	296-12706-1-ND	Dual 4-Channel Analog Mux/Demux	16-TVSOP	.75	.63	.50
SN74LV4052ADGVR	296-12706-2-ND	Dual 4-Channel Analog Mux/Demux	16-TVSOP	666.00/2,000		
SN74LV4052AN	296-3830-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4052APWR	296-3831-1-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4052APWR	296-3831-2-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	666.00/2,000		
SN74LV4052ARGYR	296-13946-1-ND	Dual 4-Channel Analog Mux/Demux *NEW!*	16-QFN	.84	.70	.56
SN74LV4052ARGYR	296-13946-2-ND	Dual 4-Channel Analog Mux/Demux *NEW!*	16-QFN	372.00/1,000		
SN74LV4053AN	296-3832-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4053APWR	296-3833-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4053APWR	296-3833-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	650.00/2,000		
SN74LV4053ARGYR	296-13947-1-ND	Triple 2-Channel Analog Mux/Demux *NEW!*	16-QFN	.84	.70	.56
SN74LV4053ARGYR	296-13947-2-ND	Triple 2-Channel Analog Mux/Demux *NEW!*	16-QFN	372.00/1,000		
SN74LV4066ADR	296-3834-1-ND	Quad Bilateral Analog Switch	14-SOIC	.75	.63	.50
SN74LV4066ADR	296-3834-2-ND	Quad Bilateral Analog Switch	14-SOIC	812.50/2,500		
SN74LV4066AN	296-3835-5-ND	Quad Bilateral Analog Switch	14-Dip	.75	.63	.50
SN74LV4066APWR	296-3836-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.75	.63	.50
SN74LV4066APWR	296-3836-2-ND	Quad Bilateral Analog Switch	14-TSSOP	666.00/2,000		
SN74LV4066ARGYR	296-13948-1-ND	Quad Bilateral Analog Switch *NEW!*	14-QFN	.84	.70	.56
SN74LV4066ARGYR	296-13948-2-ND	Quad Bilateral Analog Switch *NEW!*	14-QFN	372.00/1,000		
SN74LV161284DGGR	296-1215-1-ND	19-Bit Bus Interface	48-TSSOP	3.04	2.43	1.89
SN74LV161284DGGR	296-1215-2-ND	19-Bit Bus Interface	48-TSSOP	3442.00/2,000		
SN74LV161284DL	296-1679-5-ND	19-Bit Bus Interface	48-SSOP	3.04	2.43	1.89
SN74LV161284DLR	296-3786-1-ND	19-Bit Bus Interface	48-SSOP	3.04	2.43	1.89
SN74LV161284DLR	296-3786-2-ND	19-Bit Bus Interface	48-SSOP	1721.00/1,000		

LVC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC1G00DBVR	296-9845-1-ND	2-Input NAND Gate	SOT-23-5	.40	.32	.22
SN74LVC1G00DBVR	296-9845-2-ND	2-Input NAND Gate	SOT-23-5	270.00/3,000		
SN74LVC1G00DCKR	296-9846-1-ND	2-Input NAND Gate	SC70	.40	.32	.22
SN74LVC1G00DCKR	296-9846-2-ND	2-Input NAND Gate	SC70	270.00/3,000		
SN74LVC1G00YEAR	296-14022-1-ND	Single 2-Input Pos. NAND Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G00YEAR	296-14022-2-ND	Single 2-Input Pos. NAND Gate *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G00YZAR	296-14023-1-ND	Single 2-Input Pos. NAND Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G00YZAR	296-14023-2-ND	Single 2-Input Pos. NAND Gate *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G00YZPR	296-14353-1-ND	Single 2-Input Pos. NAND Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G00YZPR	296-14353-2-ND	Single 2-Input Pos. NAND Gate *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G02YEAR	296-14024-1-ND	Single 2-Input Pos. NOR Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G02YEAR	296-14024-2-ND	Single 2-Input Pos. NOR Gate *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G02YZAR	296-13249-1-ND	Single 2-Input Pos. NOR Gate	5-DSBGA	.39	.32	.22
SN74LVC1G02YZAR	296-13249-2-ND	Single 2-Input Pos. NOR Gate	5-DSBGA	306.00/3,000		
SN74LVC1G04YEAR	296-13250-1-ND	Single Inverter Gate	5-DSBGA	.39	.32	.22
SN74LVC1G04YEAR	296-13250-2-ND	Single Inverter Gate	5-DSBGA	306.00/3,000		
SN74LVC1G04YEPR	296-14354-1-ND	Single Inverter Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G04YEPR	296-14354-2-ND	Single Inverter Gate *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G04YZAR	296-14025-1-ND	Single Inverter Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G04YZAR	296-14025-2-ND	Single Inverter Gate *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G04YZPR	296-14355-1-ND	Single Inverter Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G04YZPR	296-14355-2-ND	Single Inverter Gate *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G06DBVR	296-8483-1-ND	Single Inverter Buffer/Driver with OD Output	SOT-23-5	.40	.32	.22
SN74LVC1G06DBVR	296-8483-2-ND	Single Inverter Buffer/Driver with OD Output	SOT-23-5	270.00/3,000		
SN74LVC1G06DCKR	296-8484-1-ND	Single Inverter Buffer/Driver w/OD Output	SC70-5	.40	.32	.22
SN74LVC1G06DCKR	296-8484-2-ND	Single Inverter Buffer/Driver w/OD Output	SC70-5	270.00/3,000		
SN74LVC1G06YEAR	296-14292-1-ND	Single Inverter Buffer/Driver w/OD Output *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G06YEAR	296-14292-2-ND	Single Inverter Buffer/Driver w/OD Output *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G06YZAR	296-14356-1-ND	Single Inverter Buffer/Driver w/OD Output *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G06YZAR	296-14356-2-ND	Single Inverter Buffer/Driver w/OD Output *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G07DBVR	296-8485-1-ND	Single Buffer/Driver with OD Output	SOT-23-5	.40	.32	.22
SN74LVC1G07DBVR	296-8485-2-ND	Single Buffer/Driver with OD Output	SOT-23-5	270.00/3,000		
SN74LVC1G07DCKR	296-8486-1-ND	Single Buffer/Driver with OD Output	SC70-5	.40	.32	.22
SN74LVC1G07DCKR	296-8486-2-ND	Single Buffer/Driver with OD Output	SC70-5	270.00/3,000		
SN74LVC1G07YEAR	296-13251-1-ND	Single Buffer/Driver with OD Output	5-DSBGA	.39	.32	.22
SN74LVC1G07YEAR	296-13251-2-ND	Single Buffer/Driver with OD Output	5-DSBGA	306.00/3,000		
SN74LVC1G07YZAR	296-14026-1-ND	Single Buffer/Driver with OD Output *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G07YZAR	296-14026-2-ND	Single Buffer/Driver with OD Output *NEW!*	5-DSBGA	306.00/3,000		
SN74LVC1G08DCKR	296-11602-1-ND	Single 2-Input Pos. AND Gate	SC70-5	.40	.32	.22
SN74LVC1G08DCKR	296-11602-2-ND	Single 2-Input Pos. AND Gate	SC70-5	270.00/3,000		
SN74LVC1G08YEAR	296-12474-1-ND	Single 2-Input Pos. AND Gate	5-DSBGA	.39	.32	.22
SN74LVC1G08YEAR	296-12474-2-ND	Single 2-Input Pos. AND Gate	5-DSBGA	306.00/3,000		
SN74LVC1G08YEPR	296-14357-1-ND	Single 2-Input Pos. AND Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G08YEPR	296-14357-2-ND	Single 2-Input Pos. AND Gate *NEW!*	5-DSBGA	306.00/3,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC1G08YZAR	296-13252-1-ND	Single 2-Input Pos. AND Gate	5-DSBGA	.39	.32	.22
SN74LVC1G08YZAR	296-13252-2-ND	Single 2-Input Pos. AND Gate	5-DSBGA		306.00/3,000	
SN74LVC1G08YZPR	296-14358-1-ND	Single 2-Input Pos. AND Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G08YZPR	296-14358-2-ND	Single 2-Input Pos. AND Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G14YEAR	296-13037-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.39	.32	.22
SN74LVC1G14YEAR	296-13037-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		306.00/3,000	
SN74LVC1G14YEPR	296-14362-1-ND	Single Schmitt-Trigger Inverter *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G14YEPR	296-14362-2-ND	Single Schmitt-Trigger Inverter *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G14YZAR	296-13038-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.39	.32	.22
SN74LVC1G14YZAR	296-13038-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		306.00/3,000	
SN74LVC1G14YZPR	296-14363-1-ND	Single Schmitt-Trigger Inverter *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G14YZPR	296-14363-2-ND	Single Schmitt-Trigger Inverter *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G17DBVR	296-11933-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.40	.32	.22
SN74LVC1G17DBVR	296-11933-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5		270.00/3,000	
SN74LVC1G17DCKR	296-11934-1-ND	Single Schmitt-Trigger Buffer	SC70-5	.40	.32	.22
SN74LVC1G17DCKR	296-11934-2-ND	Single Schmitt-Trigger Buffer	SC70-5		270.00/3,000	
SN74LVC1G32DBVR	296-9847-1-ND	Single 2-Input Positive-OR Gate	SOT-23-5	.40	.32	.22
SN74LVC1G32DBVR	296-9847-2-ND	Single 2-Input Positive-OR Gate	SOT-23-5		270.00/3,000	
SN74LVC1G32DCKR	296-9848-1-ND	Single 2-Input Positive-OR Gate	SC70	.40	.32	.22
SN74LVC1G32DCKR	296-9848-2-ND	Single 2-Input Positive-OR Gate	SC70		270.00/3,000	
SN74LVC1G32YEAR	296-13039-1-ND	Single 2-Input Positive-OR Gate	5-DSBGA	.39	.32	.22
SN74LVC1G32YEAR	296-13039-2-ND	Single 2-Input Positive-OR Gate	5-DSBGA		306.00/3,000	
SN74LVC1G32YZAR	296-14028-1-ND	Single 2-Input Positive-OR Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G32YZAR	296-14028-2-ND	Single 2-Input Positive-OR Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G32YZPR	296-14365-1-ND	Single 2-Input Positive-OR Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G32YZPR	296-14365-2-ND	Single 2-Input Positive-OR Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G57YEAR	296-14293-1-ND	Config. Multiple-Function Gate *NEW!*	6-DSBGA	.39	.32	.22
SN74LVC1G57YEAR	296-14293-2-ND	Config. Multiple-Function Gate *NEW!*	6-DSBGA		306.00/3,000	
SN74LVC1G58YEAR	296-14294-1-ND	Multiple-Function Gate *NEW!*	6-DSBGA	.39	.32	.22
SN74LVC1G58YEAR	296-14294-2-ND	Multiple-Function Gate *NEW!*	6-DSBGA		306.00/3,000	
SN74LVC1G66DBVR	296-13253-1-ND	Single Bilateral Analog Switch	SOT-23-5	.40	.32	.22
SN74LVC1G66DBVR	296-13253-2-ND	Single Bilateral Analog Switch	SOT-23-5		270.00/3,000	
SN74LVC1G66DCKR	296-13254-1-ND	Single Bilateral Analog Switch	SC-70-5	.40	.32	.22
SN74LVC1G66DCKR	296-13254-2-ND	Single Bilateral Analog Switch	SC-70-5		270.00/3,000	
SN74LVC1G66YEAR	296-13255-1-ND	Single Bilateral Analog Switch	5-DSBGA	.39	.32	.22
SN74LVC1G66YEAR	296-13255-2-ND	Single Bilateral Analog Switch	5-DSBGA		306.00/3,000	
SN74LVC1G66YZAR	296-14029-1-ND	Single Bilateral Analog Switch *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G66YZAR	296-14029-2-ND	Single Bilateral Analog Switch *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G79DBVR	296-9849-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	.40	.32	.22
SN74LVC1G79DBVR	296-9849-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5		270.00/3,000	
SN74LVC1G79DCKR	296-9850-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	.40	.32	.22
SN74LVC1G79DCKR	296-9850-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5		270.00/3,000	
SN74LVC1G79YEAR	296-14030-1-ND	Single Positive Edge-Trig. D-Type Flip-Flop *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G79YEAR	296-14030-2-ND	Single Positive Edge-Trig. D-Type Flip-Flop *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G80DBVR	296-9851-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	.40	.32	.22
SN74LVC1G80DBVR	296-9851-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5		270.00/3,000	
SN74LVC1G80DCKR	296-9852-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	.40	.32	.22
SN74LVC1G80DCKR	296-9852-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5		270.00/3,000	
SN74LVC1G80YZAR	296-14031-1-ND	Single Positive Edge-Trig. D-Type Flip-Flop *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G80YZAR	296-14031-2-ND	Single Positive Edge-Trig. D-Type Flip-Flop *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G86DBVR	296-9853-1-ND	2-Input EX-OR Gate	SOT-23-5	.40	.32	.22
SN74LVC1G86DBVR	296-9853-2-ND	2-Input EX-OR Gate	SOT-23-5		270.00/3,000	
SN74LVC1G86DCKR	296-9854-1-ND	2-Input EX-OR Gate	SC70	.40	.32	.22
SN74LVC1G86DCKR	296-9854-2-ND	2-Input EX-OR Gate	SC70		270.00/3,000	
SN74LVC1G86YZAR	296-14032-1-ND	Single 2-Input EX-OR Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G86YZAR	296-14032-2-ND	Single 2-Input EX-OR Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G97YEAR	296-14366-1-ND	Configurable Multiple Function Gate *NEW!*	6-DSBGA	.39	.32	.22
SN74LVC1G97YEAR	296-14366-2-ND	Configurable Multiple Function Gate *NEW!*	6-DSBGA		306.00/3,000	
SN74LVC1G97YZAR	296-14367-1-ND	Configurable Multiple Function Gate *NEW!*	6-DSBGA	.39	.32	.22
SN74LVC1G97YZAR	296-14367-2-ND	Configurable Multiple Function Gate *NEW!*	6-DSBGA		306.00/3,000	
SN74LVC1G98YEAR	296-14368-1-ND	Configurable Multiple Function Gate *NEW!*	6-DSBGA	.39	.32	.22
SN74LVC1G98YEAR	296-14368-2-ND	Configurable Multiple Function Gate *NEW!*	6-DSBGA		306.00/3,000	
SN74LVC1G98YZAR	296-14369-1-ND	Configurable Multiple Function Gate *NEW!*	6-DSBGA	.39	.32	.22
SN74LVC1G98YZAR	296-14369-2-ND	Configurable Multiple Function Gate *NEW!*	6-DSBGA		306.00/3,000	
SN74LVC1G125YEAR	296-14359-1-ND	Tri-St. Single Bus Buffer Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G125YEAR	296-14359-2-ND	Tri-St. Single Bus Buffer Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G126YZAR	296-14027-1-ND	Tri-St. Single Bus Buffer Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G126YZAR	296-14027-2-ND	Tri-St. Single Bus Buffer Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G126YZPR	296-14361-1-ND	Tri-St. Single Bus Buffer Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G126YZPR	296-14361-2-ND	Tri-St. Single Bus Buffer Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1G240YEAR	296-14364-1-ND	Tri-St. Single Buffer/Driver *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1G240YEAR	296-14364-2-ND	Tri-St. Single Buffer/Driver *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1GU04DBVR	296-8487-1-ND	Single Inverter Gate	SOT-23-5	.40	.32	.22
SN74LVC1GU04DBVR	296-8487-2-ND	Single Inverter Gate	SOT-23-5		270.00/3,000	
SN74LVC1GU04DCKR	296-8488-1-ND	Single Inverter Gate	SC70-5	.40	.32	.22
SN74LVC1GU04DCKR	296-8488-2-ND	Single Inverter Gate	SC70-5		270.00/3,000	
SN74LVC1GU04YEAR	296-13730-1-ND	Single Inverter Gate	5-DSBGA	.39	.32	.22
SN74LVC1GU04YEAR	296-13730-2-ND	Single Inverter Gate	5-DSBGA		306.00/3,000	
SN74LVC1GU04YZAR	296-14033-1-ND	Single Inverter Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1GU04YZAR	296-14033-2-ND	Single Inverter Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC1GU04YZPR	296-14370-1-ND	Single Inverter Gate *NEW!*	5-DSBGA	.39	.32	.22
SN74LVC1GU04YZPR	296-14370-2-ND	Single Inverter Gate *NEW!*	5-DSBGA		306.00/3,000	
SN74LVC2G00DCTR	296-13257-1-ND	Dual 2-Input Positive NAND Gate	8-SSOP	.48	.36	.27
SN74LVC2G00DCTR	296-13257-2-ND	Dual 2-Input Positive NAND Gate	8-SSOP		468.00/3,000	
SN74LVC2G00DCUR	296-13258-1-ND	Dual 2-Input Positive NAND Gate	8-VSSOP	.48	.36	.27
SN74LVC2G00DCUR	296-13258-2-ND	Dual 2-Input Positive NAND Gate	8-VSSOP		468.00/3,000	
SN74LVC2G00YZAR	296-14034-1-ND	Dual 2-Input Positive NAND Gate *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G00YZAR	296-14034-2-ND	Dual 2-Input Positive NAND Gate *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G02DCTR	296-13259-1-ND	Dual 2-Input Positive NOR Gate	8-SSOP	.48	.36	.27
SN74LVC2G02DCTR	296-13259-2-ND	Dual 2-Input Positive NOR Gate	8-SSOP		468.00/3,000	
SN74LVC2G02DCUR	296-13260-1-ND	Dual 2-Input Positive NOR Gate	8-VSSOP	.48	.36	.27
SN74LVC2G02DCUR	296-13260-2-ND	Dual 2-Input Positive NOR Gate	8-VSSOP		468.00/3,000	
SN74LVC2G02YEAR	296-13731-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.52	.39	.30
SN74LVC2G02YEAR	296-13731-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA		507.00/3,000	
SN74LVC2G02YZAR	296-14035-1-ND	Dual 2-Input Positive NOR Gate *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G02YZAR	296-14035-2-ND	Dual 2-Input Positive NOR Gate *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G04DBVR	296-13261-1-ND	Dual Inverter Gate	SOT-23-6	.48	.36	.27
SN74LVC2G04DBVR	296-13261-2-ND	Dual Inverter Gate	SOT-23-6		468.00/3,000	
SN74LVC2G04DCKR	296-13262-1-ND	Dual Inverter Gate	SC-70-6	.48	.36	.27
SN74LVC2G04DCKR	296-13262-2-ND	Dual Inverter Gate	SC-70-6		468.00/3,000	
SN74LVC2G04YEAR	296-13732-1-ND	Dual Inverter Gate	6-DSBGA	.52	.39	.30
SN74LVC2G04YEAR	296-13732-2-ND	Dual Inverter Gate	6-DSBGA		507.00/3,000	
SN74LVC2G04YZAR	296-13733-1-ND	Dual Inverter Gate	6-DSBGA	.52	.39	.30
SN74LVC2G04YZAR	296-13733-2-ND	Dual Inverter Gate	6-DSBGA		507.00/3,000	
SN74LVC2G06DBVR	296-13492-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SOT-23-6	.48	.36	.27
SN74LVC2G06DBVR	296-13492-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SOT-23-6		468.00/3,000	
SN74LVC2G06DCKR	296-13493-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC-70-6	.48	.36	.27
SN74LVC2G06DCKR	296-13493-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC-70-6		468.00/3,000	
SN74LVC2G06YEAR	296-13734-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.52	.39	.30
SN74LVC2G06YEAR	296-13734-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA		507.00/3,000	
SN74LVC2G06YZAR	296-13735-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.52	.39	.30
SN74LVC2G06YZAR	296-13735-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA		507.00/3,000	
SN74LVC2G07DBVR	296-13494-1-ND	Dual Buffer/Driver with Open-Drain Output	SOT-23-6	.48	.36	.27
SN74LVC2G07DBVR	296-13494-2-ND	Dual Buffer/Driver with Open-Drain Output	SOT-23-6		468.00/3,000	
SN74LVC2G07DCKR	296-13495-1-ND	Dual Buffer/Driver with Open-Drain Output	SC-70-6	.48	.36	.27
SN74LVC2G07DCKR	296-13495-2-ND	Dual Buffer/Driver with Open-Drain Output	SC-70-6		468.00/3,000	
SN74LVC2G07YEAR	296-13736-1-ND	Dual Buffer/Driver with Open-Drain Output	6-DSBGA	.52	.39	.30
SN74LVC2G07YEAR	296-13736-2-ND	Dual Buffer/Driver with Open-Drain Output	6-DSBGA		507.00/3,000	
SN74LVC2G07YZAR	296-13737-1-ND	Dual Buffer/Driver with Open-Drain Output	6-DSBGA	.52	.39	.30
SN74LVC2G07YZAR	296-13737-2-ND	Dual Buffer/Driver with Open-Drain Output	6-DSBGA		507.00/3,000	
SN74LVC2G08DCTR	296-13263-1-ND	Dual 2-Input Positive AND Gate	8-SSOP	.48	.36	.27
SN74LVC2G08DCTR	296-13263-2-ND	Dual 2-Input Positive AND Gate	8-SSOP		468.00/3,000	
SN74LVC2G08DCUR	296-13264-1-ND	Dual 2-Input Positive AND Gate	8-VSSOP	.48	.36	.27
SN74LVC2G08DCUR	296-13264-2-ND	Dual 2-Input Positive AND Gate	8-VSSOP		468.00/3,000	
SN74LVC2G08YZAR	296-14036-1-ND	Dual 2-Input Positive AND Gate *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G08YZAR	296-14036-2-ND	Dual 2-Input Positive AND Gate *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G08YZPR	296-14371-1-ND	Dual 2-Input Positive AND Gate *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G08YZPR	296-14371-2-ND	Dual 2-Input Positive AND Gate *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G14DBVR	296-13010-1-ND	Dual Schmitt-Trigger Inverter	SOT-23-6	.48	.36	.27
SN74LVC2G14DBVR	296-13010-2-ND	Dual Schmitt-Trigger Inverter	SOT-23-6		468.00/3,000	
SN74LVC2G14DCKR	296-13011-1-ND	Dual Schmitt-Trigger Inverter	SC70-6	.48	.36	.27
SN74LVC2G14DCKR	296-13011-2-ND	Dual Schmitt-Trigger Inverter	SC70-6		468.00/3,000	
SN74LVC2G14YEAR	296-13970-1-ND	Dual Schmitt-Trigger Inverter *NEW!*	6-DSBGA	.52	.39	.30
SN74LVC2G14YEAR	296-13970-2-ND	Dual Schmitt-Trigger Inverter *NEW!*	6-DSBGA		507.00/3,000	
SN74LVC2G17DBVR	296-13012-1-ND	Dual Schmitt-Trigger Buffer	SOT-23-6	.48	.36	.27
SN74LVC2G17DBVR	296-13012-2-ND	Dual Schmitt-Trigger Buffer	SOT-23-6		468.00/3,000	
SN74LVC2G17DCKR	296-13013-1-ND	Dual Schmitt-Trigger Buffer	SC70-6	.48	.36	.27
SN74LVC2G17DCKR	296-13013-2-ND	Dual Schmitt-Trigger Buffer	SC70-6		468.00/3,000	
SN74LVC2G17YEAR	296-14039-1-ND	Dual Schmitt-Trigger Buffer *NEW!*	6-DSBGA	.52	.39	.30
SN74LVC2G17YEAR	296-14039-2-ND	Dual Schmitt-Trigger Buffer *NEW!*	6-DSBGA		507.00/3,000	
SN74LVC2G32DCTR	296-13267-1-ND	Dual 2-Input Positive OR Gate	8-SSOP	.48	.36	.27
SN74LVC2G32DCTR	296-13267-2-ND	Dual 2-Input Positive OR Gate	8-SSOP		468.00/3,000	
SN74LVC2G32DCUR	296-13268-1-ND	Dual 2-Input Positive OR Gate	8-VSSOP	.48	.36	.27
SN74LVC2G32DCUR	296-13268-2-ND	Dual 2-Input Positive OR Gate	8-VSSOP		468.00/3,000	
SN74LVC2G32YZAR	296-14040-1-ND	Dual 2-Input Positive OR Gate *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G32YZAR	296-14040-2-ND	Dual 2-Input Positive OR Gate *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G34DBVR	296-13496-1-ND	Dual Buffer Gate	SOT-23-6	.48	.36	.27
SN74LVC2G34DBVR	296-13496-2-ND	Dual Buffer Gate	SOT-23-6		468.00/3,000	
SN74LVC2G34DCKR	296-13497-1-ND	Dual Buffer Gate	SC-70-6	.48	.36	.27
SN74LVC2G34DCKR	296-13497-2-ND	Dual Buffer Gate	SC-70-6		468.00/3,000	
SN74LVC2G34YEAR	296-13740-1-ND	Dual Buffer Gate	6-DSBGA	.52	.39	.30
SN74LVC2G34YEAR	296-13740-2-ND	Dual Buffer Gate	6-DSBGA		507.00/3,000	
SN74LVC2G34YZAR	296-13741-1-ND	Dual Buffer Gate	6-DSBGA	.52	.39	.30
SN74LVC2G34YZAR	296-13741-2-ND	Dual Buffer Gate	6-DSBGA		507.00/3,000	
SN74LVC2G53DCTR	296-13269-1-ND	Dual Analog Mux/Demux	8-SSOP	.48	.36	.27
SN74LVC2G53DCTR	296-13269-2-ND	Dual Analog Mux/Demux	8-SSOP		468.00/3,000	
SN74LVC2G53DCUR	296-13270-1-ND	Dual Analog Mux/Demux	8-VSSOP	.48	.36	.27
SN74LVC2G53DCUR	296-13270-2-ND	Dual Analog Mux/Demux	8-VSSOP		468.00/3,000	
SN74LVC2G53YEAR	296-13702-1-ND	Dual Analog Mux/Demux	8-DSBGA	.52	.39	.30
SN74LVC2G53YEAR	296-13702-2-ND	Dual Analog Mux/Demux	8-DSBGA		507.00/3,000	
SN74LVC2G53YZAR	296-12664-1-ND	Dual Analog Mux/Demux	8-DSBGA	.52	.39	.30
SN74LVC2G53YZAR	296-12664-2-ND	Dual Analog Mux/Demux	8-DSBGA		507.00/3,000	
SN74LVC2G53YZPR	296-14372-1-ND	Dual Analog Mux/Demux *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G53YZPR	296-14372-2-ND	Dual Analog Mux/Demux *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G66DCTR	296-13271-1-ND	Dual Bilateral Analog Switch	8-SSOP	.48	.36	.27
SN74LVC2G66DCTR	296-13271-2-ND	Dual Bilateral Analog Switch	8-SSOP		468.00/3,000	
SN74LVC2G66DCUR	296-13272-1-ND	Dual Bilateral Analog Switch	8-VSSOP	.48	.36	.27
SN74LVC2G66DCUR	296-13272-2-ND	Dual Bilateral Analog Switch	8-VSSOP		468.00/3,000	
SN74LVC2G66YZAR	296-14041-1-ND	Dual Bilateral Analog Switch *NEW!*	8-DSBGA	.52	.39	.30

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC2G66YZAR	296-14041-2-ND	Dual Bilateral Analog Switch *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G66YZPR	296-14373-1-ND	Dual Bilateral Analog Switch *NEW!*	8-DSBGA	.96	.72	.54
SN74LVC2G66YZPR	296-14373-2-ND	Dual Bilateral Analog Switch *NEW!*	8-DSBGA		936.00/3,000	
SN74LVC2G74DCTR	296-13273-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-SSOP	.48	.36	.27
SN74LVC2G74DCTR	296-13273-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-SSOP		468.00/3,000	
SN74LVC2G74DCUR	296-12755-1-ND	Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-VSSOP	.48	.36	.27
SN74LVC2G74DCUR	296-12755-2-ND	Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-VSSOP		468.00/3,000	
SN74LVC2G74YEPR	296-14374-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G74YEPR	296-14374-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G74YZAR	296-14042-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G74YZAR	296-14042-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G74YZPR	296-14375-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G74YZPR	296-14375-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G86DCTR	296-13274-1-ND	Dual 2-In. Exclusive OR Gate	8-SSOP	.48	.36	.27
SN74LVC2G86DCTR	296-13274-2-ND	Dual 2-In. Exclusive OR Gate	8-SSOP		468.00/3,000	
SN74LVC2G86DCUR	296-13275-1-ND	Dual 2-In. Exclusive OR Gate	8-VSSOP	.48	.36	.27
SN74LVC2G86DCUR	296-13275-2-ND	Dual 2-In. Exclusive OR Gate	8-VSSOP		468.00/3,000	
SN74LVC2G86YEAR	296-13972-1-ND	Dual 2-In. Exclusive OR Gate *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G86YEAR	296-13972-2-ND	Dual 2-In. Exclusive OR Gate *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G125DCTR	296-12164-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.48	.40	.32
SN74LVC2G125DCTR	296-12164-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP		624.00/3,000	
SN74LVC2G125DCUR	296-13265-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.48	.36	.27
SN74LVC2G125DCUR	296-13265-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP		468.00/3,000	
SN74LVC2G125YEAR	296-13738-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.52	.39	.30
SN74LVC2G125YEAR	296-13738-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA		507.00/3,000	
SN74LVC2G125YZAR	296-14037-1-ND	Tri-State Dual Bus Buffer Gate *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G125YZAR	296-14037-2-ND	Tri-State Dual Bus Buffer Gate *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G126DCTR	296-12554-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.48	.36	.27
SN74LVC2G126DCTR	296-12554-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP		468.00/3,000	
SN74LVC2G126DCUR	296-12555-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.48	.36	.27
SN74LVC2G126DCUR	296-12555-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP		468.00/3,000	
SN74LVC2G126YZAR	296-14038-1-ND	Tri-State Dual Bus Buffer Gate *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G126YZAR	296-14038-2-ND	Tri-State Dual Bus Buffer Gate *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G157DCTR	296-13266-1-ND	Single, 2-1 Line Data Selector/Mux	8-SSOP	.48	.36	.27
SN74LVC2G157DCTR	296-13266-2-ND	Single, 2-1 Line Data Selector/Mux	8-SSOP		468.00/3,000	
SN74LVC2G157DCUR	296-12605-1-ND	Single, 2-1 Line Data Selector/Mux	8-VSSOP	.48	.36	.27
SN74LVC2G157DCUR	296-12605-2-ND	Single, 2-1 Line Data Selector/Mux	8-VSSOP		468.00/3,000	
SN74LVC2G157YEAR	296-13971-1-ND	Single, 2-1 Line Data Selector/ Mux *NEW!*	8-DSBGA	.52	.39	.30
SN74LVC2G157YEAR	296-13971-2-ND	Single 2-1 Line Data Selector/ Mux *NEW!*	8-DSBGA		507.00/3,000	
SN74LVC2G240DCUR	296-13739-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.48	.36	.27
SN74LVC2G240DCUR	296-13739-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP		468.00/3,000	
SN74LVC2G241DCTR	296-11935-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.48	.36	.27
SN74LVC2G241DCTR	296-11935-2-ND	Tri-State Dual Buffer/Driver	8-SSOP		468.00/3,000	
SN74LVC2G241DCUR	296-11936-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.48	.36	.27
SN74LVC2G241DCUR	296-11936-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP		468.00/3,000	
SN74LVC2GU04DBVR	296-13276-1-ND	Dual Inverter Gate	SOT-23-6	.48	.36	.27
SN74LVC2GU04DBVR	296-13276-2-ND	Dual Inverter Gate	SOT-23-6		468.00/3,000	
SN74LVC2GU04DCKR	296-13277-1-ND	Dual Inverter Gate	SC-70-6	.48	.36	.27
SN74LVC2GU04DCKR	296-13277-2-ND	Dual Inverter Gate	SC-70-6		468.00/3,000	
SN74LVC2GU04YEAR	296-13742-1-ND	Dual Inverter Gate	6-DSBGA	.52	.39	.30
SN74LVC2GU04YEAR	296-13742-2-ND	Dual Inverter Gate	6-DSBGA		507.00/3,000	
SN74LVC2GU04YZAR	296-13743-1-ND	Dual Inverter Gate	6-DSBGA	.52	.39	.30
SN74LVC2GU04YZAR	296-13743-2-ND	Dual Inverter Gate	6-DSBGA		507.00/3,000	
SN74LVC2GU04YZPR	296-14376-1-ND	Dual Inverter Gate *NEW!*	6-DSBGA	.52	.39	.30
SN74LVC2GU04YZPR	296-14376-2-ND	Dual Inverter Gate *NEW!*	6-DSBGA		507.00/3,000	
SN74LVC3G04DCTR	296-13278-1-ND	Triple Inverter Gate	8-SSOP	.80	.60	.45
SN74LVC3G04DCTR	296-13278-2-ND	Triple Inverter Gate	8-SSOP		780.00/3,000	
SN74LVC3G04DCUR	296-13279-1-ND	Triple Inverter Gate	8-VSSOP	.80	.60	.45
SN74LVC3G04DCUR	296-13279-2-ND	Triple Inverter Gate	8-VSSOP		780.00/3,000	
SN74LVC3G04YEAR	296-14043-1-ND	Triple Inverter Gate *NEW!*	8-DSBGA	.88	.66	.50
SN74LVC3G04YEAR	296-14043-2-ND	Triple Inverter Gate *NEW!*	8-DSBGA		858.00/3,000	
SN74LVC3G06DCTR	296-13280-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-SSOP	.80	.60	.45
SN74LVC3G06DCTR	296-13280-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-SSOP		780.00/3,000	
SN74LVC3G06DCUR	296-13281-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-VSSOP	.80	.60	.45
SN74LVC3G06DCUR	296-13281-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-VSSOP		780.00/3,000	
SN74LVC3G07DCTR	296-13282-1-ND	Triple Buffer/Driver with Open Drain Outputs	8-SSOP	.80	.60	.45
SN74LVC3G07DCTR	296-13282-2-ND	Triple Buffer/Driver with Open Drain Outputs	8-SSOP		780.00/3,000	
SN74LVC3G07DCUR	296-13283-1-ND	Triple Buffer/Driver with Open Drain Outputs	8-VSSOP	.80	.60	.45
SN74LVC3G07DCUR	296-13283-2-ND	Triple Buffer/Driver with Open Drain Outputs	8-VSSOP		780.00/3,000	
SN74LVC3G07YEAR	296-14044-1-ND	Triple Buffer/Driver with Open Drain Output *NEW!*	8-DSBGA	.88	.66	.50
SN74LVC3G07YEAR	296-14044-2-ND	Triple Buffer/Driver with Open Drain Output *NEW!*	8-DSBGA		858.00/3,000	
SN74LVC3G14DCTR	296-13284-1-ND	Triple Schmitt-Trigger Inverter	8-SSOP	.80	.60	.45
SN74LVC3G14DCTR	296-13284-2-ND	Triple Schmitt-Trigger Inverter	8-SSOP		780.00/3,000	
SN74LVC3G14DCUR	296-13006-1-ND	Triple Schmitt-Trigger Inverter	8-VSSOP	.96	.72	.54
SN74LVC3G14DCUR	296-13006-2-ND	Triple Schmitt-Trigger Inverter	8-VSSOP		936.00/3,000	
SN74LVC3G14YEAR	296-14045-1-ND	Triple Schmitt-Trigger Inverter *NEW!*	8-DSBGA	.88	.66	.50
SN74LVC3G14YEAR	296-14045-2-ND	Triple Schmitt-Trigger Inverter *NEW!*	8-DSBGA		858.00/3,000	
SN74LVC3G34DCTR	296-13285-1-ND	Triple Buffer Gate	8-SSOP	.80	.60	.45
SN74LVC3G34DCTR	296-13285-2-ND	Triple Buffer Gate	8-SSOP		780.00/3,000	
SN74LVC3G34DCUR	296-13286-1-ND	Triple Buffer Gate	8-VSSOP	.80	.60	.45
SN74LVC3G34DCUR	296-13286-2-ND	Triple Buffer Gate	8-VSSOP		780.00/3,000	

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC3G34YEAR	296-14046-1-ND	Triple Buffer Gate *NEW!*	8-DSBGA	.88	.66	.50
SN74LVC3G34YEAR	296-14046-2-ND	Triple Buffer Gate *NEW!*	8-DSBGA		858.00/3,000	
SN74LVC00AD	296-1694-5-ND	Quad 2-Input NAND Gate	14-SOIC	.40	.32	.22
SN74LVC00ADR	296-1694-1-ND	Quad 2-Input NAND Gate	14-SOIC	.40	.32	.22
SN74LVC00ADR	296-1694-2-ND	Quad 2-Input NAND Gate	14-SOIC		225.00/2,500	
SN74LVC00ADBR	296-8430-1-ND	Quad 2-Input NAND Gate	14-SSOP	.40	.32	.22
SN74LVC00ADBR	296-8430-2-ND	Quad 2-Input NAND Gate	14-SSOP		190.00/2,000	
SN74LVC00APWR	296-1216-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.40	.32	.22
SN74LVC00APWR	296-1216-2-ND	Quad 2-Input NAND Gate	14-TSSOP		190.00/2,000	
SN74LVC00ARGYR	296-13954-1-ND	Quad 2-Input NAND Gate *NEW!*	14-QFN	.42	.35	.24
SN74LVC00ARGYR	296-13954-2-ND	Quad 2-Input NAND Gate *NEW!*	14-QFN		117.00/1,000	
SN74LVC02AD	296-8433-5-ND	Quad 2-Input NOR Gate	14-SOP	.40	.32	.22
SN74LVC02ADR	296-8433-1-ND	Quad 2-Input NOR Gate	14-SOP	.40	.32	.22
SN74LVC02ADR	296-8433-2-ND	Quad 2-Input NOR Gate	14-SOP		225.00/2,500	
SN74LVC02ADBR	296-8432-1-ND	Quad 2-Input NOR Gate	14-SSOP	.40	.32	.22
SN74LVC02ADBR	296-8432-2-ND	Quad 2-Input NOR Gate	14-SSOP		190.00/2,000	
SN74LVC02APWR	296-8434-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.40	.32	.22
SN74LVC02APWR	296-8434-2-ND	Quad 2-Input NOR Gate	14-TSSOP		190.00/2,000	
SN74LVC02ARGYR	296-13955-1-ND	Quad 2-Input NOR Gate *NEW!*	14-QFN	.42	.35	.24
SN74LVC02ARGYR	296-13955-2-ND	Quad 2-Input NOR Gate *NEW!*	14-QFN		117.00/1,000	
SN74LVC04AD	296-1218-5-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74LVC04ADR	296-1218-1-ND	Hex Inverter	14-SOIC	.40	.32	.22
SN74LVC04ADR	296-1218-2-ND	Hex Inverter	14-SOIC		225.00/2,500	
SN74LVC04ADBR	296-1217-1-ND	Hex Inverter	14-SSOP	.40	.32	.22
SN74LVC04ADBR	296-1217-2-ND	Hex Inverter	14-SSOP		190.00/2,000	
SN74LVC04ADGVR	296-8435-1-ND	Hex Inverter	14-TVSOP	.40	.32	.22
SN74LVC04ADGVR	296-8435-2-ND	Hex Inverter	14-TVSOP		190.00/2,000	
SN74LVC04APWR	296-1219-1-ND	Hex Inverter	14-TSSOP	.40	.32	.22
SN74LVC04APWR	296-1219-2-ND	Hex Inverter	14-TSSOP		190.00/2,000	
SN74LVC04ARGYR	296-13956-1-ND	Hex Inverter *NEW!*	14-QFN	.42	.35	.24
SN74LVC04ARGYR	296-13956-2-ND	Hex Inverter *NEW!*	14-QFN		117.00/1,000	
SN74LVC06AD	296-1696-5-ND	Hex Inverter Buffer/Driver w/OD	14-SOIC	.40	.32	.22
SN74LVC06ADBR	296-14399-1-ND	Hex Inverter Buffer/Driver w/OD *NEW!*	14-SSOP	.40	.32	.22
SN74LVC06ADBR	296-14399-2-ND	Hex Inverter Buffer/Driver w/OD *NEW!*	14-SSOP		190.00/2,000	
SN74LVC06ADGVR	296-8436-1-ND	Hex Inverter Buffer/Driver w/OD	14-TVSOP	.40	.32	.22
SN74LVC06ADGVR	296-8436-2-ND	Hex Inverter Buffer/Driver w/OD	14-TVSOP		190.00/2,000	
SN74LVC06APWR	296-8437-1-ND	Hex Inverter Buffer/Driver w/OD	14-TSSOP	.40	.32	.22
SN74LVC06APWR	296-8437-2-ND	Hex Inverter Buffer/Driver w/OD	14-TSSOP		190.00/2,000	
SN74LVC06ARGYR	296-13957-1-ND	Hex Inverter Buffer/Driver w/OD *NEW!*	14-QFN	.42	.35	.24
SN74LVC06ARGYR	296-13957-2-ND	Hex Inverter Buffer/Driver w/OD *NEW!*	14-QFN		117.00/1,000	
SN74LVC07AD	296-8441-5-ND	Hex Buffer/Driver with OD	14-SOIC	.40	.32	.22
SN74LVC07ADR	296-8441-1-ND	Hex Buffer/Driver with OD	14-SOIC	.40	.32	.22
SN74LVC07ADR	296-8441-2-ND	Hex Buffer/Driver with OD	14-SOIC		225.00/2,500	
SN74LVC07ADBR	296-8439-1-ND	Hex Buffer/Driver with OD	14-SSOP	.40	.32	.22
SN74LVC07ADBR	296-8439-2-ND	Hex Buffer/Driver with OD	14-SSOP		190.00/2,000	
SN74LVC07ADGVR	296-8440-1-ND	Hex Buffer/Driver with OD	14-TVSOP	.40	.32	.22
SN74LVC07ADGVR	296-8440-2-ND	Hex Buffer/Driver with OD	14-TVSOP		190.00/2,000	
SN74LVC07APWR	296-8442-1-ND	Hex Buffer/Driver with OD	14-TSSOP	.40	.32	.22
SN74LVC07APWR	296-8442-2-ND	Hex Buffer/Driver with OD	14-TSSOP		190.00/2,000	
SN74LVC07ARGYR	296-13958-1-ND	Hex Buffer/Driver with OD *NEW!*	14-QFN	.42	.35	.24
SN74LVC07ARGYR	296-13958-2-ND	Hex Buffer/Driver with OD *NEW!*	14-QFN		117.00/1,000	
SN74LVC08AD	296-1697-5-ND	Quad 2-Input AND Gate	14-SOIC	.40	.32	.22
SN74LVC08ADR	296-1697-1-ND	Quad 2-Input AND Gate	14-SOIC	.40	.32	.22
SN74LVC08ADR	296-1697-2-ND	Quad 2-Input AND Gate	14-SOIC		225.00/2,500	
SN74LVC08ADBR	296-1220-1-ND	Quad 2-Input AND Gate	14-SSOP	.40	.32	.22
SN74LVC08ADBR	296-1220-2-ND	Quad 2-Input AND Gate	14-SSOP		190.00/2,000	
SN74LVC08APWR	296-1221-1-ND	Quad 2-Input AND Gate	14-TSSOP	.40	.32	.22
SN74LVC08APWR	296-1221-2-ND	Quad 2-Input AND Gate	14-TSSOP		190.00/2,000	
SN74LVC08ARGYR	296-13959-1-ND	Quad 2-Input AND Gate *NEW!*	14-QFN	.42	.35	.24
SN74LVC08ARGYR	296-13959-2-ND	Quad 2-Input AND Gate *NEW!*	14-QFN		117.00/1,000	
SN74LVC10AD	296-8443-5-ND	Triple 3-Input NAND Gate	14-SOP	.40	.32	.22
SN74LVC10ADBR	296-8444-1-ND	Triple 3-Input NAND Gate	14-SSOP	.40	.32	.22
SN74LVC10ADBR	296-8444-2-ND	Triple 3-Input NAND Gate	14-SSOP		190.00/2,000	
SN74LVC10APWR	296-8445-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.40	.32	.22
SN74LVC10APWR	296-8445-2-ND	Triple 3-Input NAND Gate	14-TSSOP		190.00/2,000	
SN74LVC10ARGYR	296-13960-1-ND	Triple 3-Input NAND Gate *NEW!*	14-QFN	.42	.35	.24
SN74LVC10ARGYR	296-13960-2-ND	Triple 3-Input NAND Gate *NEW!*	14-QFN		117.00/1,000	
SN74LVC14AD	296-1699-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.22
SN74LVC14ADR	296-1699-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.22
SN74LVC14ADR	296-1699-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		225.00/2,500	
SN74LVC14ADBR	296-8463-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.40	.32	.22
SN74LVC14ADBR	296-8463-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP		190.00/2,000	
SN74LVC14ADGVR	296-8464-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.40	.32	.22
SN74LVC14ADGVR	296-8464-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP		190.00/2,000	
SN74LVC14APWR	296-1224-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.40	.32	.22
SN74LVC14APWR	296-1224-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		190.00/2,000	
SN74LVC14ARGYR	296-13965-1-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-QFN	.42	.35	.24
SN74LVC14ARGYR	296-13965-2-ND	Hex Schmitt-Trigger Inverter *NEW!*	14-QFN		117.00/1,000	
SN74LVC32AD	296-1235-5-ND	Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
SN74LVC32ADR	296-1235-1-ND	Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
SN74LVC32ADR	296-1235-2-ND	Quad 2-Input OR Gate	14-SOIC		225.00/2,500	
SN74LVC32ADBR	296-1234-1-ND	Quad 2-Input OR Gate	14-SSOP	.40	.32	.22
SN74LVC32ADBR	296-1234-2-ND	Quad 2-Input OR Gate	14-SSOP		190.00/2,000	
SN74LVC32APWR	296-1236-1-ND	Quad 2-Input OR Gate	14-TSSOP	.40	.32	.22
SN74LVC32APWR	296-1236-2-ND	Quad 2-Input OR Gate	14-TSSOP		190.00/2,000	
SN74LVC32ARGYR	296-13819-1-ND	Quad 2-Input Pos. OR Gate *NEW!*	14-QFN	.42	.35	.24
SN74LVC32ARGYR	296-13819-2-ND	Quad 2-Input Pos. OR Gate *NEW!*	14-QFN		117.00/1,000	
SN74LVC74AD	296-1240-5-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.36	.29	.20
SN74LVC74ADR	296-1240-1-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.36	.29	.20
SN74LVC74ADR	296-1240-2-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC		235.00/2,500	
SN74LVC74ADBR	296-1239-1-ND	Tri-State Dual D-Type Flip-Flop	14-SSOP	.36	.29	.20
SN74LVC74ADBR	296-1239-2-ND	Tri-State Dual D-Type Flip-Flop	14-SSOP		198.00/2,000	
SN74LVC74APWR	296-1241-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	.36	.29	.20
SN74LVC74APWR	296-1241-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP		198.00/2,000	
SN74LVC74ARGYR	296-13977-1-ND	Tri-State Dual D-Type Flip-Flop *NEW!*	14-QFN	.40	.32	.22
SN74LVC74ARGYR	296-13977-2-ND	Tri-State Dual D-Type Flip-Flop *NEW!*	14-QFN		95.00/1,000	
SN74LVC86AD	296-8561-5-ND	Quad 2-Input EX-OR Gate	14-SOP	.36	.29	.20
SN74LVC86ADBR	296-8562-1-ND	Quad 2-Input EX-OR Gate	14-SSOP	.36	.29	.20
SN74LVC86ADBR	296-8562-2-ND	Quad 2-Input EX-OR Gate	14-SSOP		198.00/2,000	

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC86APWR	296-1242-1-ND	Quad 2-Input EX-OR Gate	14-TSSOP	.36	.29	.20
SN74LVC86APWR	296-1242-2-ND	Quad 2-Input EX-OR Gate	14-TSSOP		198.00/2,000	
SN74LVC86ARGYR	296-13978-1-ND	Quad 2-Input EX-OR Gate *NEW!*	14-QFN	.40	.32	.22
SN74LVC86ARGYR	296-13978-2-ND	Quad 2-Input EX-OR Gate *NEW!*	14-QFN		95.00/1,000	
SN74LVC112AD	296-8449-5-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOP	.55	.44	.33
SN74LVC112ADR	296-8449-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOP	.55	.44	.33
SN74LVC112ADR	296-8449-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOP		372.50/2,500	
SN74LVC112ADBR	296-8447-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SSOP	.55	.44	.33
SN74LVC112ADBR	296-8447-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SSOP		308.00/2,000	
SN74LVC112ADGVR	296-8448-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TVSOP	.55	.44	.33
SN74LVC112ADGVR	296-8448-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TVSOP		308.00/2,000	
SN74LVC112APWR	296-8450-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TSSOP	.55	.44	.33
SN74LVC112APWR	296-8450-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TSSOP		308.00/2,000	
SN74LVC125AD	296-8453-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.46	.37	.26
SN74LVC125ADR	296-8453-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.46	.37	.26
SN74LVC125ADR	296-8453-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		297.50/2,500	
SN74LVC125ADBR	296-8452-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.46	.37	.26
SN74LVC125ADBR	296-8452-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		252.00/2,000	
SN74LVC125ANSR	296-13234-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.46	.37	.26
SN74LVC125ANSR	296-13234-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP		252.00/2,000	
SN74LVC125APWR	296-1222-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.46	.37	.26
SN74LVC125APWR	296-1222-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		252.00/2,000	
SN74LVC125ARGYR	296-13961-1-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	.46	.37	.26
SN74LVC125ARGYR	296-13961-2-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN		126.00/1,000	
SN74LVC126AD	296-8457-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.46	.37	.26
SN74LVC126ADR	296-8457-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.46	.37	.26
SN74LVC126ADR	296-8457-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		297.50/2,500	
SN74LVC126ADBR	296-8455-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.46	.37	.26
SN74LVC126ADBR	296-8455-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		252.00/2,000	
SN74LVC126ADGVR	296-8456-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.46	.37	.26
SN74LVC126ADGVR	296-8456-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP		252.00/2,000	
SN74LVC126ANSR	296-13701-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.46	.37	.26
SN74LVC126ANSR	296-13701-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP		252.00/2,000	
SN74LVC126APWR	296-8458-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.46	.37	.26
SN74LVC126APWR	296-8458-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		252.00/2,000	
SN74LVC126ARGYR	296-13962-1-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN	.46	.37	.26
SN74LVC126ARGYR	296-13962-2-ND	Tri-State Quad Bus Buffer Gate *NEW!*	14-QFN		126.00/1,000	
SN74LVC138AD	296-8459-5-ND	3-8 Line Decoder/Demux	16-SOP	.46	.37	.26
SN74LVC138ADBR	296-8460-1-ND	3-8 Line Decoder/Demux	16-SSOP	.46	.37	.26
SN74LVC138ADBR	296-8460-2-ND	3-8 Line Decoder/Demux	16-SSOP		252.00/2,000	
SN74LVC138ADGVR	296-13235-1-ND	3-8 Line Decoder/Demux	16-TVSOP	.46	.37	.26
SN74LVC138ADGVR	296-13235-2-ND	3-8 Line Decoder/Demux	16-TVSOP		252.00/2,000	
SN74LVC138AGQNR	296-12096-1-ND	3-8 Line Decoder/Demux	20-BGA	.46	.37	.26
SN74LVC138AGQNR	296-12096-2-ND	3-8 Line Decoder/Demux	20-BGA		126.00/1,000	
SN74LVC138APWR	296-1223-1-ND	3-8 Line Decoder/Demux	16-TSSOP	.46	.37	.26
SN74LVC138APWR	296-1223-2-ND	3-8 Line Decoder/Demux	16-TSSOP		252.00/2,000	
SN74LVC138ARGYR	296-13963-1-ND	3-8 Line Decoder/Demux *NEW!*	16-QFN	.46	.37	.26
SN74LVC138ARGYR	296-13963-2-ND	3-8 Line Decoder/Demux *NEW!*	16-QFN		126.00/1,000	
SN74LVC139AD	296-1698-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.46	.37	.26
SN74LVC139ADBR	296-8461-1-ND	Dual 2-4 Line Decoder/Demux	16-SSOP	.46	.37	.26
SN74LVC139ADBR	296-8461-2-ND	Dual 2-4 Line Decoder/Demux	16-SSOP		252.00/2,000	
SN74LVC139AGQNR	296-13236-1-ND	Dual 2-4 Line Decoder/Demux	16-VFBGA	.46	.37	.26
SN74LVC139AGQNR	296-13236-2-ND	Dual 2-4 Line Decoder/Demux	16-VFBGA		126.00/1,000	
SN74LVC139APWR	296-8462-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.46	.37	.26
SN74LVC139APWR	296-8462-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP		252.00/2,000	
SN74LVC139ARGYR	296-13964-1-ND	Dual 2-4 Line Decoder/Demux *NEW!*	16-QFN	.46	.37	.26
SN74LVC139ARGYR	296-13964-2-ND	Dual 2-4 Line Decoder/Demux *NEW!*	16-QFN		126.00/1,000	
SN74LVC157AD	296-1700-5-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.45	.36	.27
SN74LVC157ADBR	296-8465-1-ND	Quad 2-1 Data Selector/Mux.	16-SSOP	.45	.36	.27
SN74LVC157ADBR	296-8465-2-ND	Quad 2-1 Data Selector/Mux	16-SSOP		252.00/2,000	
SN74LVC157APWR	296-1225-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	.45	.36	.27
SN74LVC157APWR	296-1225-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP		252.00/2,000	
SN74LVC157ARGYR	296-13966-1-ND	Quad 2-1 Data Selector/Mux *NEW!*	16-QFN	.45	.36	.27
SN74LVC157ARGYR	296-13966-2-ND	Quad 2-1 Data Selector/Mux *NEW!*	16-QFN		126.00/1,000	
SN74LVC240ADBR	296-8494-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.40	.32	.24
SN74LVC240ADBR	296-8494-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		224.00/2,000	
SN74LVC240ADGVR	296-8495-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.40	.32	.24
SN74LVC240ADGVR	296-8495-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		224.00/2,000	
SN74LVC240ADW	296-8496-5-ND	Tri-State Octal Buffer/Driver	20-SOP	.40	.32	.24
SN74LVC240ADWR	296-8496-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.40	.32	.24
SN74LVC240ADWR	296-8496-2-ND	Tri-State Octal Buffer/Driver	20-SOP		224.00/2,000	
SN74LVC240ANSR	296-12902-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.40	.32	.24
SN74LVC240ANSR	296-12902-2-ND	Tri-State Octal Buffer/Driver	20-SOP		224.00/2,000	
SN74LVC240APWR	296-8498-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.40	.32	.24
SN74LVC240APWR	296-8498-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		224.00/2,000	
SN74LVC244ADBR	296-8499-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.40	.32	.24
SN74LVC244ADBR	296-8499-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		224.00/2,000	
SN74LVC244ADGVR	296-8500-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.40	.32	.24
SN74LVC244ADGVR	296-8500-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		224.00/2,000	
SN74LVC244ADWR	296-1229-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.40	.32	.24
SN74LVC244ADWR	296-1229-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		224.00/2,000	
SN74LVC244AGQNR	296-12097-1-ND	Tri-State Octal Buffer/Driver	20-BGA	.40	.32	.24
SN74LVC244AGQNR	296-12097-2-ND	Tri-State Octal Buffer/Driver	20-BGA		112.00/1,000	
SN74LVC244AN	296-8501-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.40	.32	.24
SN74LVC244APWR	296-1230-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.40	.32	.24
SN74LVC244APWR	296-1230-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		224.00/2,000	
SN74LVC244ARGYR	296-13967-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN	.40	.32	.24
SN74LVC244ARGYR	296-13967-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN		112.00/1,000	
SN74LVC245ADBR	296-1231-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.40	.32	.24
SN74LVC245ADBR	296-1231-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		224.00/2,000	
SN74LVC245ADGVR	296-8502-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.40	.32	.24
SN74LVC245ADGVR	296-8502-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP		224.00/2,000	
SN74LVC245ADW	296-1232-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.40	.32	.24
SN74LVC245ADWR	296-1232-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.40	.32	.24
SN74LVC245ADWR	296-1232-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		224.00/2,000	
SN74LVC245AGQNR	296-12098-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.40	.32	.24
SN74LVC245AGQNR	296-12098-2-ND	Tri-State Octal Bus Transceiver	20-BGA		112.00/1,000	
SN74LVC245AN	296-8503-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.40	.32	.24
SN74LVC245ANSR	296-13632-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.40	.32	.24
SN74LVC245ANSR	296-13632-2-ND	Tri-State Octal Bus Transceiver	20-SOP		224.00/2,000	
SN74LVC245APWR	296-1233-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.40	.32	.24
SN74LVC245APWR	296-1233-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		224.00/2,000	
SN74LVC245ARGYR	296-13968-1-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	.40	.32	.24
SN74LVC245ARGYR	296-13968-2-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN		112.00/1,000	
SN74LVC257AD	296-8504-5-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOP	.40	.32	.24
SN74LVC257ADBR	296-12903-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SSOP	.40	.32	.24
SN74LVC257ADBR	296-12903-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SSOP		224.00/2,000	
SN74LVC257ADR	296-8504-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOP	.40	.32	.24
SN74LVC257ADR	296-8504-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOP		270.00/2,500	
SN74LVC257APWR	296-8506-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP	.40	.32	.24
SN74LVC257APWR	296-8506-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP		224.00/2,000	
SN74LVC257ARGYR	296-13969-1-ND	Tri-State Quad 2-1 Data Selector/ Mux *NEW!*	16-QFN	.40	.32	.24
SN74LVC257ARGYR	296-13969-2-ND	Tri-State Quad 2-1 Data Selector/ Mux *NEW!*	16-QFN		112.00/1,000	
SN74LVC373ADBR	296-1237-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.40	.32	.24
SN74LVC373ADBR	296-1237-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP		224.00/2,000	
SN74LVC373ADGVR	296-8510-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.40	.32	.24
SN74LVC373ADGVR	296-8510-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP		224.00/2,000	
SN74LVC373ADW	296-8511-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOP	.40	.32	.24
SN74LVC373ADWR	296-8511-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOP	.40	.32	.24
SN74LVC373ADWR	296-8511-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOP		224.00/2,000	
SN74LVC373AGQNR	296-12099-1-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	.40	.32	.24
SN74LVC373AGQNR	296-12099-2-ND	Tri-State Octal Transp. D-Type Latch	20-BGA		112.00/1,000	
SN74LVC373AN	296-12905-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.40	.32	.24
SN74LVC373APWR	296-8512-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.40	.32	.24
SN74LVC373APWR	296-8512-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP		224.00/2,000	
SN74LVC373ARGYR	296-13973-1-ND	Tri-State Octal Transp. D-Type Latch *NEW!*	20-QFN	.40	.32	.24
SN74LVC373ARGYR	296-13973-2-ND	Tri-State Octal Transp. D-Type Latch *NEW!*	20-QFN		112.00/1,000	
SN74LVC374ADBR	296-8513-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.40	.32	.24
SN74LVC374ADBR	296-8513-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		224.00/2,000	
SN74LVC374ADGVR	296-12906-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.40	.32	.24
SN74LVC374ADGVR	296-12906-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP		224.00/2,000	
SN74LVC374ADW	296-1701-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.40	.32	.24
SN74LVC374ADWR	296-1701-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.40	.32	.24
SN74LVC374ADWR	296-1701-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		224.00/2,000	
SN74LVC374AN	296-12907-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.40	.32	.24
SN74LVC374APWR	296-1238-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.40	.32	.24
SN74LVC374APWR	296-1238-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		224.00/2,000	
SN74LVC540ADBR	296-8516-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74LVC540ADBR	296-8516-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		280.00/2,000	
SN74LVC540ADGVR	296-12908-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.50	.40	.30
SN74LVC540ADGVR	296-12908-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		280.00/2,000	
SN74LVC540ADW	296-8517-5-ND	Tri-State Octal Buffer/Driver	20-SOP	.50	.40	.30
SN74LVC540ADWR	296-8517-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.50	.40	.30
SN74LVC540ADWR	296-8517-2-ND	Tri-State Octal Buffer/Driver	20-SOP		280.00/2,000	
SN74LVC540APWR	296-12909-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74LVC540APWR	296-12909-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		280.00/2,000	
SN74LVC541ADBR	296-8518-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74LVC541ADBR	296-8518-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		280.00/2,000	
SN74LVC541ADGVR	296-8519-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.50	.40	.30
SN74LVC541ADGVR	296-8519-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		280.00/2,000	
SN74LVC541ADW	296-8520-5-ND	Tri-State Octal Buffer/Driver	20-SOP	.50	.40	.30
SN74LVC541APWR	296-8521-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74LVC541APWR	296-8521-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		280.00/2,000	
SN74LVC541ARGYR	296-13974-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN	.55	.44	.33
SN74LVC541ARGYR	296-13974-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN		154.00/1,000	
SN74LVC543ADBR	296-8522-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	.90	.75	.60
SN74LVC543ADBR	296-8522-2-ND	Tri-State Octal Registered Transceiver	24-SSOP		798.00/2,000	
SN74LVC543ADW	296-8523-5-ND	Tri-State Octal Registered Transceiver	24-SOP	.90	.75	.60
SN74LVC543APWR	296-8524-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	.90	.75	.60
SN74LVC543APWR	296-8524-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP		798.00/2,000	
SN74LVC573ADBR	296-8525-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.40	.32	.24
SN74LVC573ADBR	296-8525-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP		224.00/2,000	
SN74LVC573ADGVR	296-8526-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.40	.32	.24
SN74LVC573ADGVR	296-8526-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP		224.00/2,000	
SN74LVC573ADW	296-8527-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.40	.32	.24
SN74LVC573AGQNR	296-12100-1-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	.40	.32	.24
SN74LVC573AGQNR	296-12100-2-ND	Tri-State Octal Transp. D-Type Latch	20-BGA		112.00/1,000	
SN74LVC573AN	296-8528-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.40	.32	.24
SN74LVC573APWR	296-8529-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.40	.32	.24
SN74LVC573APWR	296-8529-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP		224.00/2,000	
SN74LVC573ARGYR	296-13975-1-ND	Tri-State Octal Transp. D-Type Latch *NEW!*	20-QFN	.40	.32	.24
SN74LVC573ARGYR	296-13975-2-ND	Tri-State Octal Transp. D-Type Latch *NEW!*	20-QFN		112.00/1,000	
SN74LVC574ADBR	296-8530-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.40	.32	.24
SN74LVC574ADBR	296-8530-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		224.00/2,000	
SN74LVC574ADW	296-8531-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.40	.32	.24
SN74LVC574ADGVR	296-12475-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.40	.32	.24
SN74LVC574ADGVR	296-12475-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP		224.00/2,000	
SN74LVC574AGQNR	296-12101-1-ND	Tri-State Octal D-Type Flip-Flop	20-BGA	.40	.32	.24
SN74LVC574AGQNR	296-12101-2-ND	Tri-State Octal D-Type Flip-Flop	20-BGA		112.00/1,000	
SN74LVC574AN	296-12910-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.40	.32	.24
SN74LVC574APWR	296-8532-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.40	.32	.24
SN74LVC574APWR	296-8532-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		224.00/2,000	
SN74LVC574ARGYR	296-13976-1-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-QFN	.40	.32	.24
SN74LVC574ARGYR	296-13976-2-ND	Tri-State Octal D-Type Flip-Flop *NEW!*	20-QFN		112.00/1,000	
SN74LVC646ADBR	296-8533-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.26	1.05	.84
SN74LVC646ADBR	296-8533-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP		1118.00/2,000	
SN74LVC646ADW	296-8534-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOP	1.26	1.05	.84
SN74LVC646APWR	296-8535-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.26	1.05	.84
SN74LVC646APWR	296-8535-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP		1118.00/2,000	
SN74LVC652ADBR	296-8536-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.05	.88	.70

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC652ADBR	296-8536-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	932.00/2,000		
SN74LVC652ADW	296-8537-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOP	1.05	.88	.70
SN74LVC652APWR	296-8538-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.05	.88	.70
SN74LVC652APWR	296-8538-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	932.00/2,000		
SN74LVC821ADBR	296-8539-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-SSOP	.96	.80	.64
SN74LVC821ADBR	296-8539-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-SSOP	852.00/2,000		
SN74LVC821ADGVR	296-8540-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-TVSOP	.96	.80	.64
SN74LVC821ADGVR	296-8540-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-TVSOP	852.00/2,000		
SN74LVC821ADW	296-1703-5-ND	Tri-State 10-Bit Interface Flip-Flop	24-SOIC	.96	.80	.64
SN74LVC821ADWR	296-1703-1-ND	Tri-State 10-Bit Bus-Interface Flip-Flop	24-SOIC	.96	.80	.64
SN74LVC821ADWR	296-1703-2-ND	Tri-State 10-Bit Bus-Interface Flip-Flop	24-SOIC	852.00/2,000		
SN74LVC821APWR	296-8541-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-TSSOP	.96	.80	.64
SN74LVC821APWR	296-8541-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-TSSOP	852.00/2,000		
SN74LVC823ADBR	296-8542-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SSOP	.75	.63	.50
SN74LVC823ADBR	296-8542-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SSOP	666.00/2,000		
SN74LVC823ADGVR	296-8543-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TVSOP	.75	.63	.50
SN74LVC823ADGVR	296-8543-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TVSOP	666.00/2,000		
SN74LVC823ADW	296-12911-5-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SOIC	.75	.63	.50
SN74LVC823APWR	296-8544-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TSSOP	.75	.63	.50
SN74LVC823APWR	296-8544-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TSSOP	666.00/2,000		
SN74LVC827ADBR	296-8545-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	.75	.63	.50
SN74LVC827ADBR	296-8545-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	666.00/2,000		
SN74LVC827ADGVR	296-8546-1-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	.75	.63	.50
SN74LVC827ADGVR	296-8546-2-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	666.00/2,000		
SN74LVC827ADW	296-8547-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOP	.75	.63	.50
SN74LVC827APWR	296-8548-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	.75	.63	.50
SN74LVC827APWR	296-8548-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	666.00/2,000		
SN74LVC828ADBR	296-12912-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	.75	.63	.50
SN74LVC828ADBR	296-12912-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	666.00/2,000		
SN74LVC828ADGVR	296-12741-1-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	.75	.63	.50
SN74LVC828ADGVR	296-12741-2-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	666.00/2,000		
SN74LVC828ADW	296-12913-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	.75	.63	.50
SN74LVC828APWR	296-8549-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	.75	.63	.50
SN74LVC828APWR	296-8549-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	666.00/2,000		
SN74LVC841ADBR	296-8550-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SSOP	1.70	1.36	1.02
SN74LVC841ADBR	296-8550-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SSOP	1768.00/2,000		
SN74LVC841ADGVR	296-8551-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TVSOP	1.70	1.36	1.02
SN74LVC841ADGVR	296-8551-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TVSOP	1768.00/2,000		
SN74LVC841ADW	296-8552-5-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SOP	1.70	1.36	1.02
SN74LVC841APWR	296-8553-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TSSOP	1.70	1.36	1.02
SN74LVC841APWR	296-8553-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TSSOP	1768.00/2,000		
SN74LVC861ADBR	296-12914-1-ND	Tri-State 10-Bit Bus Transceiver	24-SSOP	2.05	1.64	1.23
SN74LVC861ADBR	296-12914-2-ND	Tri-State 10-Bit Bus Transceiver	24-SSOP	2132.00/2,000		
SN74LVC861ADGVR	296-8555-1-ND	Tri-State 10-Bit Bus Transceiver	24-TVSOP	2.05	1.64	1.23
SN74LVC861ADGVR	296-8555-2-ND	Tri-State 10-Bit Bus Transceiver	24-TVSOP	2132.00/2,000		
SN74LVC861ADW	296-8556-5-ND	Tri-State 10-Bit Bus Transceiver	24-SOP	2.05	1.64	1.23
SN74LVC861APWR	296-12915-1-ND	Tri-State 10-Bit Bus Transceiver	24-TSSOP	2.05	1.64	1.23
SN74LVC861APWR	296-12915-2-ND	Tri-State 10-Bit Bus Transceiver	24-TSSOP	2132.00/2,000		
SN74LVC863ADBR	296-8557-1-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2.05	1.64	1.23
SN74LVC863ADBR	296-8557-2-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2132.00/2,000		
SN74LVC863ADGVR	296-8558-1-ND	Tri-State 9-Bit Bus Transceiver	24-TVSOP	2.05	1.64	1.23
SN74LVC863ADGVR	296-8558-2-ND	Tri-State 9-Bit Bus Transceiver	24-TVSOP	2132.00/2,000		
SN74LVC863ADW	296-8559-5-ND	Tri-State 9-Bit Bus Transceiver	24-SOP	2.05	1.64	1.23
SN74LVC863APWR	296-8560-1-ND	Tri-State 9-Bit Bus Transceiver	24-TSSOP	2.05	1.64	1.23
SN74LVC863APWR	296-8560-2-ND	Tri-State 9-Bit Bus Transceiver	24-TSSOP	2132.00/2,000		
SN74LVC2244ADBR	296-8489-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74LVC2244ADBR	296-8489-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	280.00/2,000		
SN74LVC2244ADGVR	296-12901-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.50	.40	.30
SN74LVC2244ADGVR	296-12901-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	280.00/2,000		
SN74LVC2244ADW	296-8490-5-ND	Tri-State Octal Buffer/Driver	20-SOP	.50	.40	.30
SN74LVC2244ADWR	296-8490-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.50	.40	.30
SN74LVC2244ADWR	296-8490-2-ND	Tri-State Octal Buffer/Driver	20-SOP	280.00/2,000		
SN74LVC2244ANSR	296-13256-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.50	.40	.30
SN74LVC2244ANSR	296-13256-2-ND	Tri-State Octal Buffer/Driver	20-SOP	280.00/2,000		
SN74LVC2244APWR	296-8491-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74LVC2244APWR	296-8491-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	280.00/2,000		
SN74LVC2952ADBR	296-12904-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.05	.88	.70
SN74LVC2952ADBR	296-12904-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	932.00/2,000		
SN74LVC2952ADW	296-8507-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOP	1.05	.88	.70
SN74LVC2952APWR	296-8508-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.05	.88	.70
SN74LVC2952APWR	296-8508-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	932.00/2,000		
SN74LVC4245ADBR	296-8514-1-ND	Tri-St. Octal Bus Xcvr. 3.3V-5V Shifter	24-SSOP	.90	.75	.60
SN74LVC4245ADBR	296-8514-2-ND	Tri-St. Octal Bus Xcvr. 3.3V-5V Shifter	24-SSOP	798.00/2,000		
SN74LVC4245ADW	296-8515-5-ND	Tri-St. Octal Bus Xcvr. 3.3V-5V Shifter	24-SOP	.90	.75	.60
SN74LVC4245APWR	296-12183-1-ND	Octal Tri-St. Xcvr. 3.3V-5V Shifter	24-TSSOP	.90	.75	.60
SN74LVC4245APWR	296-12183-2-ND	Octal Tri-St. Xcvr. 3.3V-5V Shifter	24-TSSOP	798.00/2,000		
SN74LVC16244ADGGR	296-1226-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.84	.70	.56
SN74LVC16244ADGGR	296-1226-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	744.00/2,000		
SN74LVC16244ADGVR	296-8471-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	.84	.70	.56
SN74LVC16244ADGVR	296-8471-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	744.00/2,000		
SN74LVC16244ADL	296-1227-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVC16244ADLR	296-1227-1-ND	16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVC16244ADLR	296-1227-2-ND	16-Bit Buffer/Driver	48-SSOP	372.00/1,000		
SN74LVC16244AGQLR	296-8472-1-ND	Tri-State 16-Bit Buffer/Driver	56-TVFBGA	.84	.70	.56
SN74LVC16244AGQLR	296-8472-2-ND	Tri-State 16-Bit Buffer/Driver	56-TVFBGA	372.00/1,000		
SN74LVC16245ADGGR	296-1228-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.84	.70	.56
SN74LVC16245ADGGR	296-1228-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	744.00/2,000		
SN74LVC16245ADGVR	296-8473-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	.84	.70	.56
SN74LVC16245ADGVR	296-8473-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	744.00/2,000		
SN74LVC16245ADL	296-8474-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.84	.70	.56
SN74LVC16245ADLR	296-8474-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.84	.70	.56
SN74LVC16245ADLR	296-8474-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	372.00/1,000		
SN74LVC16245AGQLR	296-9843-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	.84	.70	.56
SN74LVC16245AGQLR	296-9843-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	372.00/1,000		
SN74LVC16373ADGGR	296-13241-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	.84	.70	.56
SN74LVC16373ADGGR	296-13241-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	744.00/2,000		
SN74LVC16373ADGVR	296-13242-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	.84	.70	.56
SN74LVC16373ADGVR	296-13242-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	744.00/2,000		
SN74LVC16373ADLR	296-13243-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	.84	.70	.56
SN74LVC16373ADLR	296-13243-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	372.00/1,000		
SN74LVC16373AGQLR	296-13244-1-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	.84	.70	.56
SN74LVC16373AGQLR	296-13244-2-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	372.00/1,000		
SN74LVC16373DGGR	296-11848-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	.84	.70	.56
SN74LVC16373DGGR	296-11848-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	744.00/2,000		
SN74LVC16373DL	296-11834-5-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	.84	.70	.56
SN74LVC16373DLR	296-11834-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	.84	.70	.56
SN74LVC16373DLR	296-11834-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	372.00/1,000		
SN74LVC16374ADGGR	296-13245-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	.84	.70	.56
SN74LVC16374ADGGR	296-13245-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	744.00/2,000		
SN74LVC16374ADGVR	296-13246-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	.84	.70	.56
SN74LVC16374ADGVR	296-13246-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	744.00/2,000		
SN74LVC16374ADLR	296-13247-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	.84	.70	.56
SN74LVC16374ADLR	296-13247-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	372.00/1,000		
SN74LVC16374AGQLR	296-13248-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	.84	.70	.56
SN74LVC16374AGQLR	296-13248-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	372.00/1,000		
SN74LVC16543DGGR	296-9844-1-ND	Tri-State 16-Bit Bus Transceiver	56-TSSOP	2.70	2.16	1.68
SN74LVC16543DGGR	296-9844-2-ND	Tri-State 16-Bit Bus Transceiver	56-TSSOP	3060.00/2,000		
SN74LVC32244GKER	296-8509-1-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	3.71	2.97	2.31
SN74LVC32244GKER	296-8509-2-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	2063.00/1,000		
SN74LVC32245GKER	296-9855-1-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	3.89	3.12	2.43
SN74LVC32245GKER	296-9855-2-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	2163.00/1,000		
SN74LVC161284DGGR	296-8466-1-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1.05	.88	.70
SN74LVC161284DGGR	296-8466-2-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	932.00/2,000		
SN74LVC161284DL	296-8467-5-ND	Tri-State 19-Bit Bus Interface	48-SSOP	1.05	.88	.70
SN74LVC161284DLR	296-8467-1-ND	Tri-State 19-Bit Bus Interface	48-SSOP	1.05	.88	.70
SN74LVC161284DLR	296-8467-2-ND	Tri-State 19-Bit Bus Interface	48-SSOP	466.00/1,000		
SN74LVC162244ADGGR	296-13237-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.84	.70	.56
SN74LVC162244ADGGR	296-13237-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	744.00/2,000		
SN74LVC162244ADGVR	296-13238-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	.84	.70	.56
SN74LVC162244ADGVR	296-13238-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	744.00/2,000		
SN74LVC162244ADLR	296-13239-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVC162244ADLR	296-13239-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	372.00/1,000		
SN74LVC162244AGQLR	296-13240-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	.84	.70	.56
SN74LVC162244AGQLR	296-13240-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	372.00/1,000		

LVCC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCC3245ADBR	296-8563-1-ND	Tri-State Octal Bus Transceiver with Adjustable Output Volt	24-SSOP	1.05	.88	.70
SN74LVCC3245ADBR	296-8563-2-ND	Tri-State Octal Bus Transceiver with Adjustable Output Volt	24-SSOP	932.00/2,000		
SN74LVCC3245ADW	296-1704-5-ND	Tri-State Octal Bus Transceiver with Adjustable Output Volt	24-SOIC	1.05	.88	.70
SN74LVCC3245APWR	296-8564-1-ND	Tri-State Octal Bus Transceiver with Adjustable Output Volt	24-TSSOP	1.05	.88	.70
SN74LVCC3245APWR	296-8564-2-ND	Tri-State Octal Bus Transceiver with Adjustable Output Volt	24-TSSOP	932.00/2,000		
SN74LVCC4245ADBR	296-8565-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Volt	24-SSOP	1.05	.88	.70
SN74LVCC4245ADBR	296-8565-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Volt	24-SSOP	932.00/2,000		
SN74LVCC4245ADW	296-8566-5-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Volt	24-SOP	1.05	.88	.70
SN74LVCC4245APWR	296-8567-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Volt	24-TSSOP	1.05	.88	.70
SN74LVCC4245APWR	296-8567-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Volt	24-TSSOP	932.00/2,000		

LVCH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCH244ADBR	296-8607-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.40	.32	.24
SN74LVCH244ADBR	296-8607-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	224.00/2,000		
SN74LVCH244ADGVR	296-8608-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.40	.32	.24
SN74LVCH244ADGVR	296-8608-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	224.00/2,000		
SN74LVCH244ADW	296-8609-5-ND	Tri-State Octal Buffer/Driver	20-SOP	.40	.32	.24
SN74LVCH244APWR	296-8610-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.40	.32	.24
SN74LVCH244APWR	296-8610-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	224.00/2,000		
SN74LVCH244ARGYR	296-13979-1-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN	.40	.32	.24
SN74LVCH244ARGYR	296-13979-2-ND	Tri-State Octal Buffer/Driver *NEW!*	20-QFN	112.00/1,000		
SN74LVCH245ADBR	296-8611-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.40	.32	.24
SN74LVCH245ADBR	296-8611-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	224.00/2,000		
SN74LVCH245ADGVR	296-8612-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.40	.32	.24
SN74LVCH245ADGVR	296-8612-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	224.00/2,000		
SN74LVCH245ADW	296-8613-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.40	.32	.24
SN74LVCH245AGQNR	296-12102-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.40	.32	.24
SN74LVCH245AGQNR	296-12102-2-ND	Tri-State Octal Bus Transceiver	20-BGA	112.00/1,000		
SN74LVCH245APWR	296-1247-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.40	.32	.24
SN74LVCH245APWR	296-1247-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	224.00/2,000		
SN74LVCH245ARGYR	296-13980-1-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	.40	.32	.24
SN74LVCH245ARGYR	296-13980-2-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	112.00/1,000		
SN74LVCH16240ADGGR	296-8571-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.84	.70	.56
SN74LVCH16240ADGGR	296-8571-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	744.00/2,000		
SN74LVCH16240ADL	296-8572-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVCH16240ADLR	296-8572-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVCH16240ADLR	296-8572-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	372.00/1,000		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCH16244ADGGR	296-8573-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.84	.70	.56
SN74LVCH16244ADGGR	296-8573-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	744.00/2,000		
SN74LVCH16244ADGVR	296-8574-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	.84	.70	.56
SN74LVCH16244ADGVR	296-8574-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	744.00/2,000		
SN74LVCH16244ADL	296-1243-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVCH16244ADLR	296-1243-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVCH16244ADLR	296-1243-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	372.00/1,000		
SN74LVCH16244AGQLR	296-8578-1-ND	Tri-State 16-Bit Buffer/Driver	56-TVFBGA	.84	.70	.56
SN74LVCH16244AGQLR	296-8578-2-ND	Tri-State 16-Bit Buffer/Driver	56-TVFBGA	372.00/1,000		
SN74LVCH16245ADGGR	296-1244-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.84	.70	.56
SN74LVCH16245ADGGR	296-1244-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	744.00/2,000		
SN74LVCH16245ADGVR	296-8580-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	.84	.70	.56
SN74LVCH16245ADGVR	296-8580-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	744.00/2,000		
SN74LVCH16245ADL	296-1245-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.84	.70	.56
SN74LVCH16245ADLR	296-1245-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.84	.70	.56
SN74LVCH16245ADLR	296-1245-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	372.00/1,000		
SN74LVCH16245AGQLR	296-8582-1-ND	Tri-State 16-Bit Bus Transceiver	56-TVFBGA	.84	.70	.56
SN74LVCH16245AGQLR	296-8582-2-ND	Tri-State 16-Bit Bus Transceiver	56-TVFBGA	372.00/1,000		
SN74LVCH16373ADGGR	296-8583-1-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-TSSOP	.84	.70	.56
SN74LVCH16373ADGGR	296-8583-2-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-TSSOP	744.00/2,000		
SN74LVCH16373ADGVR	296-8584-1-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-TVSOP	.84	.70	.56
SN74LVCH16373ADGVR	296-8584-2-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-TVSOP	744.00/2,000		
SN74LVCH16373ADL	296-8585-5-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-SSOP	.84	.70	.56
SN74LVCH16373ADLR	296-8585-1-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-SSOP	.84	.70	.56
SN74LVCH16373ADLR	296-8585-2-ND	Tri-St. 16-Bit Transp. D-Type Latch	48-SSOP	372.00/1,000		
SN74LVCH16373AGQLR	296-8586-1-ND	Tri-St. 16-Bit Transp. D-Type Latch	56-TVFBGA	.84	.70	.56
SN74LVCH16373AGQLR	296-8586-2-ND	Tri-St. 16-Bit Transp. D-Type Latch	56-TVFBGA	372.00/1,000		
SN74LVCH16374ADGGR	296-8587-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	.84	.70	.56
SN74LVCH16374ADGGR	296-8587-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	744.00/2,000		
SN74LVCH16374ADGVR	296-8588-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	.84	.70	.56
SN74LVCH16374ADGVR	296-8588-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	744.00/2,000		
SN74LVCH16374ADL	296-8589-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	.84	.70	.56
SN74LVCH16374ADLR	296-8589-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	.84	.70	.56
SN74LVCH16374ADLR	296-8589-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	372.00/1,000		
SN74LVCH16374AGQLR	296-8590-1-ND	Tri-State 16-Bit D-Type Flip-Flop	56-TVFBGA	.84	.70	.56
SN74LVCH16374AGQLR	296-8590-2-ND	Tri-State 16-Bit D-Type Flip-Flop	56-TVFBGA	372.00/1,000		
SN74LVCH16540ADGGR	296-8591-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.48	1.98	1.54
SN74LVCH16540ADGGR	296-8591-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2806.00/2,000		
SN74LVCH16540ADGVR	296-8592-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.48	1.98	1.54
SN74LVCH16540ADGVR	296-8592-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2806.00/2,000		
SN74LVCH16540ADL	296-8593-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.48	1.98	1.54
SN74LVCH16541ADGGR	296-8594-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.35	1.13	.90
SN74LVCH16541ADGGR	296-8594-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1198.00/2,000		
SN74LVCH16541ADGVR	296-8595-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.35	1.13	.90
SN74LVCH16541ADGVR	296-8595-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1198.00/2,000		
SN74LVCH16541ADL	296-8596-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.35	1.13	.90
SN74LVCH16543ADGGR	296-1246-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1.35	1.13	.90
SN74LVCH16543ADGGR	296-1246-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1198.00/2,000		
SN74LVCH16543ADGVR	296-8597-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TVSOP	1.35	1.13	.90
SN74LVCH16543ADGVR	296-8597-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TVSOP	1198.00/2,000		
SN74LVCH16543ADL	296-8598-5-ND	Tri-St. 16-Bit Registered Transceiver	56-SSOP	1.35	1.13	.90
SN74LVCH16543ADLR	296-8598-1-ND	Tri-St. 16-Bit Registered Transceiver	56-SSOP	1.35	1.13	.90
SN74LVCH16543ADLR	296-8598-2-ND	Tri-St. 16-Bit Registered Transceiver	56-SSOP	599.00/1,000		
SN74LVCH16543AGQLR	296-13287-1-ND	Tri-St. 16-Bit Registered Transceiver	56-VFBGA	1.47	1.23	.98
SN74LVCH16543AGQLR	296-13287-2-ND	Tri-St. 16-Bit Registered Transceiver	56-VFBGA	652.00/1,000		
SN74LVCH16646ADGGR	296-8599-1-ND	Tri-St. 16-Bit Transceiver/Register	56-TSSOP	2.00	1.60	1.20
SN74LVCH16646ADGGR	296-8599-2-ND	Tri-St. 16-Bit Transceiver/Register	56-TSSOP	2080.00/2,000		
SN74LVCH16646ADGVR	296-9859-1-ND	Tri-St. 16-Bit Transceiver/Register	56-TVSOP	2.00	1.60	1.20
SN74LVCH16646ADGVR	296-9859-2-ND	Tri-St. 16-Bit Transceiver/Register	56-TVSOP	2080.00/2,000		
SN74LVCH16646ADL	296-8600-5-ND	Tri-St. 16-Bit Transceiver/Register	56-SSOP	2.00	1.60	1.20
SN74LVCH16652ADGGR	296-8601-1-ND	Tri-St. 16-Bit Transceiver/Register	56-TSSOP	2.00	1.60	1.20
SN74LVCH16652ADGGR	296-8601-2-ND	Tri-St. 16-Bit Transceiver/Register	56-TSSOP	2080.00/2,000		
SN74LVCH16652ADGVR	296-8602-1-ND	Tri-St. 16-Bit Transceiver/Register	56-TVSOP	2.00	1.60	1.20
SN74LVCH16652ADGVR	296-8602-2-ND	Tri-St. 16-Bit Transceiver/Register	56-TVSOP	2080.00/2,000		
SN74LVCH16652ADL	296-8603-5-ND	Tri-St. 16-Bit Transceiver/Register	56-SSOP	2.00	1.60	1.20
SN74LVCH16901DGGR	296-8604-1-ND	18-Bit Universal Bus Transceiver with Parity Gen/Checker	64-TSSOP	7.50	6.00	5.07
SN74LVCH16901DGGR	296-8604-2-ND	18-Bit Universal Bus Transceiver with Parity Gen/Checker	64-TSSOP	9376.00/2,000		
SN74LVCH16952ADGGR	296-8605-1-ND	Tri-State 16-Bit Reg. Transceiver	56-TSSOP	3.60	2.88	2.24
SN74LVCH16952ADGGR	296-8605-2-ND	Tri-State 16-Bit Reg. Transceiver	56-TSSOP	4080.00/2,000		
SN74LVCH16952ADGVR	296-12916-1-ND	Tri-State 16-Bit Reg. Transceiver	56-TVSOP	3.60	2.88	2.24
SN74LVCH16952ADGVR	296-12916-2-ND	Tri-State 16-Bit Reg. Transceiver	56-TVSOP	4080.00/2,000		
SN74LVCH16952ADL	296-8606-5-ND	Tri-State 16-Bit Reg. Transceiver	56-SSOP	3.60	2.88	2.24
SN74LVCH32244AGKER	296-8614-1-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	3.04	2.43	1.89
SN74LVCH32244AGKER	296-8614-2-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	1721.00/1,000		
SN74LVCH32245AGKER	296-8615-1-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	3.04	2.43	1.89
SN74LVCH32245AGKER	296-8615-2-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	1721.00/1,000		
SN74LVCH32373AGKER	296-8616-1-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-BGA	3.71	2.97	2.31
SN74LVCH32373AGKER	296-8616-2-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-BGA	2104.00/1,000		
SN74LVCH32374AGKER	296-8617-1-ND	Tri-State 32-Bit D-Type Flip-Flop	96-BGA	3.71	2.97	2.31
SN74LVCH32374AGKER	296-8617-2-ND	Tri-State 32-Bit D-Type Flip-Flop	96-BGA	2104.00/1,000		
SN74LVCH162244ADL	296-8568-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVCH162244ADLR	296-8568-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	.84	.70	.56
SN74LVCH162244ADLR	296-8568-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	372.00/1,000		
SN74LVCH162244AGR	296-8569-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.84	.70	.56
SN74LVCH162244AGR	296-8569-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	744.00/2,000		
SN74LVCH162244AVR	296-8570-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	.84	.70	.56
SN74LVCH162244AVR	296-8570-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	744.00/2,000		

LVCHR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCHR16245AGR	296-9860-1-ND	Tri-St. 16-Bit Bus Transceiver	48-TSSOP	.84	.70	.56
SN74LVCHR16245AGR	296-9860-2-ND	Tri-St. 16-Bit Bus Transceiver	48-TSSOP	744.00/2,000		
SN74LVCHR16245AKR	296-14400-1-ND	Tri-St. 16-Bit Bus Transceiver *NEW!*	56-VFBGA	.96	.80	.64
SN74LVCHR16245AKR	296-14400-2-ND	Tri-St. 16-Bit Bus Transceiver *NEW!*	56-VFBGA	426.00/1,000		
SN74LVCHR16245ALR	296-1248-1-ND	Tri-St. 16-Bit Bus Transceiver	48-SSOP	.84	.70	.56
SN74LVCHR16245ALR	296-1248-2-ND	Tri-St. 16-Bit Bus Transceiver	48-SSOP	372.00/1,000		
SN74LVCHR162245ADL	296-8618-5-ND	Tri-St. 16-Bit Bus Transceiver	48-SSOP	.84	.70	.56

LVCR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCR2245ADBR	296-8621-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74LVCR2245ADBR	296-8621-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	400.00/2,000		
SN74LVCR2245ADGVR	296-8622-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.60	.45	.34
SN74LVCR2245ADGVR	296-8622-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	400.00/2,000		
SN74LVCR2245ADWR	296-8623-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74LVCR2245ADWR	296-8623-2-ND	Tri-State Octal Bus Transceiver	20-SOP	400.00/2,000		
SN74LVCR2245AGQNR	296-12103-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.60	.45	.34
SN74LVCR2245AGQNR	296-12103-2-ND	Tri-State Octal Bus Transceiver	20-BGA	200.00/1,000		
SN74LVCR2245ANSR	296-13288-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74LVCR2245ANSR	296-13288-2-ND	Tri-State Octal Bus Transceiver	20-SOP	400.00/2,000		
SN74LVCR2245APWR	296-8624-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74LVCR2245APWR	296-8624-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	400.00/2,000		
SN74LVCR2245ARGYR	296-13981-1-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	.60	.45	.34
SN74LVCR2245ARGYR	296-13981-2-ND	Tri-State Octal Bus Transceiver *NEW!*	20-QFN	200.00/1,000		
SN74LVCR162245DGGR	296-8619-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.84	.70	.56
SN74LVCR162245DGGR	296-8619-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	744.00/2,000		
SN74LVCR162245DL	296-8620-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.84	.70	.56
SN74LVCR162245KR	296-12707-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	.96	.80	.64
SN74LVCR162245KR	296-12707-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	426.00/1,000		

LVCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCU04AD	296-9861-5-ND	Hex Inverter	14-SOP	.72	.54	.41
SN74LVCU04ADR	296-9861-1-ND	Hex Inverter	14-SOP	.72	.54	.41
SN74LVCU04ADR	296-9861-2-ND	Hex Inverter	14-SOP	585.00/2,500		
SN74LVCU04ADBR	296-9862-1-ND	Hex Inverter	14-SSOP	.72	.54	.41
SN74LVCU04ADBR	296-9862-2-ND	Hex Inverter	14-SSOP	478.00/2,000		
SN74LVCU04ADGVR	296-9863-1-ND	Hex Inverter	14-TVSOP	.72	.54	.41
SN74LVCU04ADGVR	296-9863-2-ND	Hex Inverter	14-TVSOP	478.00/2,000		
SN74LVCU04APWR	296-9865-1-ND	Hex Inverter	14-TSSOP	.72	.54	.41
SN74LVCU04APWR	296-9865-2-ND	Hex Inverter	14-TSSOP	478.00/2,000		

LVCZ Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCZ240ADBR	296-9870-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.05	.88	.70
SN74LVCZ240ADBR	296-9870-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	932.00/2,000		
SN74LVCZ240ADGVR	296-9871-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	1.05	.88	.70
SN74LVCZ240ADGVR	296-9871-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	932.00/2,000		
SN74LVCZ240ADWR	296-9872-1-ND	Tri-State Octal Buffer/Driver	20-SOP	1.05	.88	.70
SN74LVCZ240ADWR	296-9872-2-ND	Tri-State Octal Buffer/Driver	20-SOP	932.00/2,000		
SN74LVCZ240ANSR	296-12993-1-ND	Tri-State Octal Buffer/Driver	20-SOP	1.05	.88	.70
SN74LVCZ240ANSR	296-12993-2-ND	Tri-State Octal Buffer/Driver	20-SOP	932.00/2,000		
SN74LVCZ240APWR	296-9873-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ240APWR	296-9873-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	932.00/2,000		
SN74LVCZ244ADBR	296-9874-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.05	.88	.70
SN74LVCZ244ADBR	296-9874-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	932.00/2,000		
SN74LVCZ244ADWR	296-9875-1-ND	Tri-State Octal Buffer/Driver	20-SOP	1.05	.88	.70
SN74LVCZ244ADWR	296-9875-2-ND	Tri-State Octal Buffer/Driver	20-SOP	932.00/2,000		
SN74LVCZ244APWR	296-9876-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ244APWR	296-9876-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	932.00/2,000		
SN74LVCZ245ADBR	296-9877-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.05	.88	.70
SN74LVCZ245ADBR	296-9877-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	932.00/2,000		
SN74LVCZ245ADWR	296-9878-1-ND	Tri-State Octal Bus Transceiver	20-SOP	1.05	.88	.70
SN74LVCZ245ADWR	296-9878-2-ND	Tri-State Octal Bus Transceiver	20-SOP	932.00/2,000		
SN74LVCZ245APWR	296-9879-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.05	.88	.70
SN74LVCZ245APWR	296-9879-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	932.00/2,000		
SN74LVCZ16240ADGGR	296-9866-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.59	2.07	1.61
SN74LVCZ16240ADGGR	296-9866-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2932.00/2,000		
SN74LVCZ16240ADLR	296-9867-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.59	2.07	1.61
SN74LVCZ16240ADLR	296-9867-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1466.00/1,000		
SN74LVCZ16244ADGGR	296-9868-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.10	.83
SN74LVCZ16244ADGGR	296-9868-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1430.00/2,000		
SN74LVCZ16244ADLR	296-9869-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.00	1.60	1.20
SN74LVCZ16244ADLR	296-9869-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1040.00/1,000		
SN74LVCZ16245ADGGR	296-13289-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.00	1.60	1.20
SN74LVCZ16245ADGGR	296-13289-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2080.00/2,000		
SN74LVCZ16245ADGVR	296-13612-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.00	1.60	1.20
SN74LVCZ16245ADGVR	296-13612-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2080.00/2,000		
SN74LVCZ16245ADLR	296-13290-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.00	1.60	1.20
SN74LVCZ16245ADLR	296-13290-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1040.00/1,000		
SN74LVCZ161284AGR	296-12025-1-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1.75	1.40	1.05
SN74LVCZ161284AGR	296-12025-2-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1820.00/2,000		

LVT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVT125D	296-1249-5-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1.63	1.30	.98
SN74LVT125DR	296-1249-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1.63	1.30	.98
SN74LVT125DR	296-1249-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	2080.00/2,500		
SN74LVT125NSR	296-13291-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOP	1.63	1.30	.98
SN74LVT125NSR	296-13291-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOP	1690.00/2,000		
SN74LVT125PWR	296-1250-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	1.60	1.28	.96
SN74LVT125PWR	296-1250-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	1664.00/2,000		
SN74LVT240ADW	296-1706-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	1.35	1.13	.90
SN74LVT240APWR	296-8647-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	1.35	1.13	.90
SN74LVT240APWR	296-8647-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	1198.00/2,000		
SN74LVT244BDBR	296-8648-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	1.35	1.13	.90
SN74LVT244BDBR	296-8648-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	1198.00/2,000		
SN74LVT244BDW	296-1707-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	1.35	1.13	.90
SN74LVT244BGQNR	296-12104-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-BGA	1.47	1.23	.98
SN74LVT244BGQNR	296-12104-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-BGA	652.00/1,000		
SN74LVT244BPWR	296-8649-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	1.35	1.13	.90
SN74LVT244BPWR	296-8649-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	1198.00/2,000		
SN74LVT244BRGYR	296-13982-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver *NEW!*	20-QFN	1.25	1.00	.75
SN74LVT244BRGYR	296-13982-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver *NEW!*	20-QFN	650.00/1,000		
SN74LVT245BDBR	296-8650-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SSOP	1.35	1.13	.90
SN74LVT245BDBR	296-8650-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SSOP	1198.00/2,000		
SN74LVT245BDW	296-8651-5-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	1.35	1.13	.90
SN74LVT245BDWR	296-8651-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	1.35	1.13	.90
SN74LVT245BDWR	296-8651-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	1198.00/2,000		
SN74LVT245BGQNR	296-12105-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-BGA	1.47	1.23	.98
SN74LVT245BGQNR	296-12105-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-BGA	652.00/1,000		
SN74LVT245BNSR	296-13294-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	1.35	1.13	.90
SN74LVT245BNSR	296-13294-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	1198.00/2,000		
SN74LVT245BPWR	296-8652-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-TSSOP	1.35	1.13	.90
SN74LVT245BPWR	296-8652-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-TSSOP	1198.00/2,000		
SN74LVT245BRGYR	296-13983-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver *NEW!*	20-QFN	1.25	1.00	.75
SN74LVT245BRGYR	296-13983-2-ND	Tri-State 3.3V ABT Octal Bus Transceiver *NEW!*	20-QFN	650.00/1,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVT574DBR	296-1256-1-ND	Tri-State 3.3V Octal D-Type Flip-Flop	20-SSOP	2.13	1.70	1.28
SN74LVT574DBR	296-1256-2-ND	Tri-State 3.3V Octal D-Type Flip-Flop	20-SSOP	2210.00/2,000		
SN74LVT574PWR	296-1257-1-ND	Tri-State 3.3V Octal D-Type Flip-Flop	20-TSSOP	2.13	1.70	1.28
SN74LVT574PWR	296-1257-2-ND	Tri-State 3.3V Octal D-Type Flip-Flop	20-TSSOP	2210.00/2,000		
SN74LVT8980ADW	296-13498-5-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	8.92	7.14	6.03
SN74LVT8980DW	296-8655-5-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOP	15.83	14.25	12.64
SN74LVT8980DWR	296-8655-1-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOP	14.99	13.50	11.97
SN74LVT8980DWR	296-8655-2-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOP	22230.00/2,000		
SN74LVT8996DW	296-8656-5-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOP	9.00	7.20	6.08
SN74LVT8996DWR	296-8656-1-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOP	9.00	7.20	6.08
SN74LVT8996DWR	296-8656-2-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOP	11250.00/2,000		
SN74LVT8996PW	296-8657-5-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	9.00	7.20	6.08
SN74LVT8996PWR	296-8657-1-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	9.00	7.20	6.08
SN74LVT8996PWR	296-8657-2-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	11250.00/2,000		
SN74LVT16240DGGR	296-8633-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	2.70	2.16	1.68
SN74LVT16240DGGR	296-8633-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3060.00/2,000		
SN74LVT16240DLR	296-8634-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	2.70	2.16	1.68
SN74LVT16240DLR	296-8634-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1530.00/1,000		
SN74LVT16244BDGGR	296-8635-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	2.70	2.16	1.68
SN74LVT16244BDGGR	296-8635-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3060.00/2,000		
SN74LVT16244BDGVR	296-8636-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	2.70	2.16	1.68
SN74LVT16244BDGVR	296-8636-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	3060.00/2,000		
SN74LVT16244BDLR	296-8637-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	2.70	2.16	1.68
SN74LVT16244BDLR	296-8637-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1530.00/1,000		
SN74LVT16244BGQLR	296-8638-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVFBGA	2.97	2.38	1.85
SN74LVT16244BGQLR	296-8638-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVFBGA	1683.00/1,000		
SN74LVT16245ADGGR	296-1251-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	4.05	3.24	2.52
SN74LVT16245BDGGR	296-8640-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	2.93	2.34	1.82
SN74LVT16245BDGGR	296-8640-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	3316.00/2,000		
SN74LVT16245BDGVR	296-8641-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVSOP	2.93	2.34	1.82
SN74LVT16245BDGVR	296-8641-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVSOP	3316.00/2,000		
SN74LVT16245BDLR	296-8642-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	2.93	2.34	1.82
SN74LVT16245BDLR	296-8642-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	1658.00/1,000		
SN74LVT16245BGQLR	296-8643-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVFBGA	3.22	2.58	2.01
SN74LVT16245BGQLR	296-8643-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVFBGA	1823.00/1,000		
SN74LVT16500DLR	296-8644-1-ND	Tri-St. 3.3V ABT 18-Bit Universal Bus Transceiver	56-SSOP	6.90	5.52	4.66
SN74LVT16500DLR	296-8644-2-ND	Tri-St. 3.3V ABT 18-Bit Universal Bus Transceiver	56-SSOP	4313.00/1,000		
SN74LVT16501DGGR	296-1252-1-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-TSSOP	6.90	5.52	4.66
SN74LVT16501DGGR	296-1252-2-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-TSSOP	8626.00/2,000		
SN74LVT18512DGGR	296-8646-1-ND	3.3V ABT Scan Test Device with 18-Bit Universal Bus Transceiver	64-TSSOP	6.00	4.80	4.05
SN74LVT18512DGGR	296-8646-2-ND	3.3V ABT Scan Test Device with 18-Bit Universal Bus Transceiver	64-TSSOP	7500.00/2,000		
SN74LVT32240GKER	296-9881-1-ND	3.3V ABT 32-Bit Buffer/Driver	96-BGA	4.05	3.24	2.52
SN74LVT32240GKER	296-9881-2-ND	3.3V ABT 32-Bit Buffer/Driver	96-BGA	2250.00/1,000		
SN74LVT32244GKER	296-8653-1-ND	Tri-State, 3.3V, ABT 32-Bit Buffer/Driver	96-BGA	4.05	3.24	2.52
SN74LVT32244GKER	296-8653-2-ND	Tri-State, 3.3V, ABT 32-Bit Buffer/Driver	96-BGA	2250.00/1,000		
SN74LVT162240DGGR	296-8625-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TSSOP	2.93	2.34	1.82
SN74LVT162240DGGR	296-8625-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TSSOP	3316.00/2,000		
SN74LVT162240DGVR	296-8626-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TVSOP	2.93	2.34	1.82
SN74LVT162240DGVR	296-8626-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TVSOP	3316.00/2,000		
SN74LVT162240DLR	296-8627-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-SSOP	2.93	2.34	1.82
SN74LVT162240DLR	296-8627-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-SSOP	1658.00/1,000		
SN74LVT162244ADGGR	296-8628-1-ND	Tri-State, 3.3V, ABT 16-Bit Buffer/Driver	48-TSSOP	2.93	2.34	1.82
SN74LVT162244ADGGR	296-8628-2-ND	Tri-State, 3.3V, ABT 16-Bit Buffer/Driver	48-TSSOP	3316.00/2,000		
SN74LVT162244ADGVR	296-8629-1-ND	Tri-State, 3.3V, ABT 16-Bit Buffer/Driver	48-TVSOP	2.93	2.34	1.82
SN74LVT162244ADGVR	296-8629-2-ND	Tri-State, 3.3V, ABT 16-Bit Buffer/Driver	48-TVSOP	3316.00/2,000		
SN74LVT162244ADLR	296-8630-1-ND	Tri-State, 3.3V, ABT 16-Bit Buffer/Driver	48-SSOP	2.93	2.34	1.82
SN74LVT162244ADLR	296-8630-2-ND	Tri-State, 3.3V, ABT 16-Bit Buffer/Driver	48-SSOP	1658.00/1,000		
SN74LVT162244AGQLR	296-13292-1-ND	Tri-State, 3.3V, ABT 16-Bit Buffer/Driver	56-VFBGA	3.22	2.58	2.01
SN74LVT162244AGQLR	296-13292-2-ND	Tri-State, 3.3V, ABT 16-Bit Buffer/Driver	56-VFBGA	1823.00/1,000		
SN74LVT162245ADGGR	296-8631-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	2.93	2.34	1.82
SN74LVT162245ADGGR	296-8631-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	3316.00/2,000		
SN74LVT162245ADLR	296-8632-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	2.93	2.34	1.82
SN74LVT162245ADLR	296-8632-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	1658.00/1,000		
SN74LVT162245AGQLR	296-13293-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	3.22	2.58	2.01
SN74LVT162245AGQLR	296-13293-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	1823.00/1,000		

LVTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTH125D	296-1708-5-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.45	.36	.27
SN74LVTH125DR	296-1708-1-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.45	.36	.27
SN74LVTH125DR	296-1708-2-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	305.00/2,500		
SN74LVTH125DBR	296-8658-1-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	.45	.36	.27
SN74LVTH125DBR	296-8658-2-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	252.00/2,000		
SN74LVTH125DGVR	296-8659-1-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	.45	.36	.27
SN74LVTH125DGVR	296-8659-2-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	252.00/2,000		
SN74LVTH125PWR	296-8660-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	.45	.36	.27
SN74LVTH125PWR	296-8660-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	252.00/2,000		
SN74LVTH125RGYR	296-13984-1-ND	Tri-State ABT Quad Bus Buffer *NEW!*	14-QFN	.50	.40	.30
SN74LVTH125RGYR	296-13984-2-ND	Tri-State ABT Quad Bus Buffer *NEW!*	14-QFN	140.00/1,000		
SN74LVTH126DBR	296-8661-1-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	.45	.36	.27
SN74LVTH126DBR	296-8661-2-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	252.00/2,000		
SN74LVTH126DGVR	296-8662-1-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	.45	.36	.27
SN74LVTH126DGVR	296-8662-2-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	252.00/2,000		
SN74LVTH126DR	296-8663-1-ND	Tri-State ABT Quad Bus Buffer	14-SOP	.45	.36	.27
SN74LVTH126DR	296-8663-2-ND	Tri-State ABT Quad Bus Buffer	14-SOP	305.00/2,500		
SN74LVTH126PWR	296-8664-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	.45	.36	.27
SN74LVTH126PWR	296-8664-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	252.00/2,000		
SN74LVTH240DBR	296-8706-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.48	.36	.27
SN74LVTH240DBR	296-8706-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	320.00/2,000		
SN74LVTH240DWR	296-8707-1-ND	Tri-State ABT Octal Buffer/Driver	20-SOP	.48	.36	.27
SN74LVTH240DWR	296-8707-2-ND	Tri-State ABT Octal Buffer/Driver	20-SOP	320.00/2,000		
SN74LVTH240GQNR	296-12106-1-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	.48	.36	.27
SN74LVTH240GQNR	296-12106-2-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	160.00/1,000		
SN74LVTH240PWR	296-8708-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74LVTH240PWR	296-8708-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74LVTH240RGYR	296-13985-1-ND	Tri-State ABT Octal Buffer/Driver *NEW!*	20-QFN	.52	.39	.30
SN74LVTH240RGYR	296-13985-2-ND	Tri-State ABT Octal Buffer/Driver *NEW!*	20-QFN	173.00/1,000		
SN74LVTH241DBR	296-12742-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.48	.36	.27
SN74LVTH241DBR	296-12742-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	320.00/2,000		
SN74LVTH241DW	296-1715-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74LVTH241PWR	296-8709-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74LVTH241PWR	296-8709-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74LVTH244ADBR	296-1269-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.48	.36	.27
SN74LVTH244ADBR	296-1269-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	320.00/2,000		
SN74LVTH244ADW	296-1270-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74LVTH244ADWR	296-1270-1-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74LVTH244ADWR	296-1270-2-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	320.00/2,000		
SN74LVTH244AGQNR	296-12107-1-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	.48	.36	.27
SN74LVTH244AGQNR	296-12107-2-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	160.00/1,000		
SN74LVTH244APWR	296-1271-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74LVTH244APWR	296-1271-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74LVTH244ARGYR	296-13986-1-ND	Tri-State ABT Octal Buffer/Driver *NEW!*	20-QFN	.52	.39	.30
SN74LVTH244ARGYR	296-13986-2-ND	Tri-State ABT Octal Buffer/Driver *NEW!*	20-QFN	173.00/1,000		
SN74LVTH245ADBR	296-8710-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	.48	.36	.27
SN74LVTH245ADBR	296-8710-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	320.00/2,000		
SN74LVTH245ADW	296-8711-5-ND	Tri-State ABT Octal Bus Transceiver	20-SOP	.48	.36	.27
SN74LVTH245ADWR	296-8711-1-ND	Tri-State ABT Octal Bus Transceiver	20-SOP	.48	.36	.27
SN74LVTH245ADWR	296-8711-2-ND	Tri-State ABT Octal Bus Transceiver	20-SOP	320.00/2,000		
SN74LVTH245AGQNR	296-12108-1-ND	Tri-State ABT Octal Bus Transceiver	20-BGA	.48	.36	.27
SN74LVTH245AGQNR	296-12108-2-ND	Tri-State ABT Octal Bus Transceiver	20-BGA	160.00/1,000		
SN74LVTH245APWR	296-1272-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	.48	.36	.27
SN74LVTH245APWR	296-1272-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	320.00/2,000		
SN74LVTH245ARGYR	296-13987-1-ND	Tri-State ABT Octal Bus Transceiver *NEW!*	20-QFN	.52	.39	.30
SN74LVTH245ARGYR	296-13987-2-ND	Tri-State ABT Octal Bus Transceiver *NEW!*	20-QFN	173.00/1,000		
SN74LVTH273DBR	296-8712-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-SSOP	.48	.36	.27
SN74LVTH273DBR	296-8712-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-SSOP	320.00/2,000		
SN74LVTH273DW	296-8713-5-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOP	.48	.36	.27
SN74LVTH273PWR	296-1273-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-TSSOP	.48	.36	.27
SN74LVTH273PWR	296-1273-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-TSSOP	320.00/2,000		
SN74LVTH373DBR	296-8718-1-ND	Tri-State ABT Octal D-Type Latch	20-SSOP	.48	.36	.27
SN74LVTH373DBR	296-8718-2-ND	Tri-State ABT Octal D-Type Latch	20-SSOP	320.00/2,000		
SN74LVTH373DW	296-8719-5-ND	Tri-State ABT Octal D-Type Latch	20-SOP	.48	.36	.27
SN74LVTH373PWR	296-8720-1-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	.48	.36	.27
SN74LVTH373PWR	296-8720-2-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	320.00/2,000		
SN74LVTH374DBR	296-8721-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	.48	.36	.27
SN74LVTH374DBR	296-8721-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	320.00/2,000		
SN74LVTH374DW	296-8722-5-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOP	.48	.36	.27
SN74LVTH374DWR	296-8722-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOP	.48	.36	.27
SN74LVTH374DWR	296-8722-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOP	320.00/2,000		
SN74LVTH374PWR	296-8723-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74LVTH374PWR	296-8723-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74LVTH540DBR	296-8724-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.05	.88	.70
SN74LVTH540DBR	296-8724-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	932.00/2,000		
SN74LVTH540DW	296-8725-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOP	1.05	.88	.70
SN74LVTH540PWR	296-8726-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVTH540PWR	296-8726-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	932.00/2,000		
SN74LVTH541DBR	296-8727-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.05	.88	.70
SN74LVTH541DBR	296-8727-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	932.00/2,000		
SN74LVTH541DW	296-8728-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOP	1.05	.88	.70
SN74LVTH541PWR	296-8729-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVTH541PWR	296-8729-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	932.00/2,000		
SN74LVTH543DBR	296-8730-1-ND	Tri-State ABT Octal Xcvr./Reg.	24-SSOP	1.35	1.13	.90
SN74LVTH543DBR	296-8730-2-ND	Tri-State ABT Octal Xcvr./Reg.	24-SSOP	1198.00/2,000		
SN74LVTH543DGVR	296-8731-1-ND	Tri-State ABT Octal Xcvr./Reg.	24-TVSOP	1.35	1.13	.90
SN74LVTH543DGVR	296-8731-2-ND	Tri-State ABT Octal Xcvr./Reg.	24-TVSOP	1198.00/2,000		
SN74LVTH543DW	296-1717-5-ND	Tri-State ABT Octal Xcvr./Reg.	24-SOIC	1.35	1.13	.90
SN74LVTH543PWR	296-8732-1-ND	Tri-State ABT Octal Xcvr./Reg.	24-TSSOP	1.35	1.13	.90
SN74LVTH543PWR	296-8732-2-ND	Tri-State ABT Octal Xcvr./Reg.	24-TSSOP	1198.00/2,000		
SN74LVTH573DBR	296-8733-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SSOP	.48	.36	.27
SN74LVTH573DBR	296-8733-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SSOP	320.00/2,000		
SN74LVTH573DW	296-1718-5-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SOIC	.48	.36	.27
SN74LVTH573GQNR	296-12109-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-BGA	.48	.36	.27
SN74LVTH573GQNR	296-12109-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-BGA	160.00/1,000		
SN74LVTH573NSR	296-13300-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SOP	.48	.36	.27
SN74LVTH573NSR	296-13300-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SOP	320.00/2,000		
SN74LVTH573PWR	296-8734-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-TSSOP	.48	.36	.27
SN74LVTH573PWR	296-8734-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-TSSOP	320.00/2,000		
SN74LVTH573RGYR	296-13988-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch *NEW!*	20-QFN	.52	.39	.30
SN74LVTH573RGYR	296-13988-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch *NEW!*	20-QFN	173.00/1,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTH574DBR	296-8735-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	.48	.36	.27
SN74LVTH574DBR	296-8735-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP		320.00/2,000	
SN74LVTH574DW	296-1719-5-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LVTH574DWR	296-1719-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LVTH574DWR	296-1719-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC		320.00/2,000	
SN74LVTH574GQNR	296-12110-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-BGA	.48	.36	.27
SN74LVTH574GQNR	296-12110-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-BGA		160.00/1,000	
SN74LVTH574PWR	296-8736-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74LVTH574PWR	296-8736-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP		320.00/2,000	
SN74LVTH574RGYR	296-13989-1-ND	Tri-State ABT Octal D-Type Flip-Flop *NEW!*	20-QFN	.52	.39	.30
SN74LVTH574RGYR	296-13989-2-ND	Tri-State ABT Octal D-Type Flip-Flop *NEW!*	20-QFN		173.00/1,000	
SN74LVTH646DBR	296-8737-1-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-SSOP	1.05	.88	.70
SN74LVTH646DBR	296-8737-2-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-SSOP		932.00/2,000	
SN74LVTH646DGVR	296-12924-1-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TVSOP	1.05	.88	.70
SN74LVTH646DGVR	296-12924-2-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TVSOP		932.00/2,000	
SN74LVTH646DW	296-1720-5-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-SOIC	1.05	.88	.70
SN74LVTH646PWR	296-8738-1-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TSSOP	1.05	.88	.70
SN74LVTH646PWR	296-8738-2-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TSSOP		932.00/2,000	
SN74LVTH652DBR	296-8739-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SSOP	1.88	1.50	1.13
SN74LVTH652DBR	296-8739-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SSOP		1950.00/2,000	
SN74LVTH652DGVR	296-12925-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TVSOP	1.88	1.50	1.13
SN74LVTH652DGVR	296-12925-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TVSOP		1950.00/2,000	
SN74LVTH652DW	296-1721-5-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SOIC	1.88	1.50	1.13
SN74LVTH652PWR	296-8740-1-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TSSOP	1.88	1.50	1.13
SN74LVTH652PWR	296-8740-2-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TSSOP		1950.00/2,000	
SN74LVTH2245DBR	296-8704-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	1.35	1.13	.90
SN74LVTH2245DBR	296-8704-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP		1198.00/2,000	
SN74LVTH2245DGVR	296-12921-1-ND	Tri-State ABT Octal Bus Transceiver	20-TVSOP	1.35	1.13	.90
SN74LVTH2245DGVR	296-12921-2-ND	Tri-State ABT Octal Bus Transceiver	20-TVSOP		1198.00/2,000	
SN74LVTH2245DW	296-1714-5-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74LVTH2245PWR	296-8705-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	1.35	1.13	.90
SN74LVTH2245PWR	296-8705-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP		1198.00/2,000	
SN74LVTH2952DBR	296-8714-1-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-SSOP	2.38	1.90	1.43
SN74LVTH2952DBR	296-8714-2-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-SSOP		2470.00/2,000	
SN74LVTH2952DGVR	296-12922-1-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TVSOP	2.38	1.90	1.43
SN74LVTH2952DGVR	296-12922-2-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TVSOP		2470.00/2,000	
SN74LVTH2952DW	296-1716-5-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-SOIC	2.38	1.90	1.43
SN74LVTH2952PWR	296-8715-1-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TSSOP	2.38	1.90	1.43
SN74LVTH2952PWR	296-8715-2-ND	Tri-St. ABT Octal Bus Xcvr./Register	24-TSSOP		2470.00/2,000	
SN74LVTH16240DGGR	296-8674-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	.78	.65	.52
SN74LVTH16240DGGR	296-8674-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		692.00/2,000	
SN74LVTH16240DL	296-8675-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	.78	.65	.52
SN74LVTH16241DGGR	296-8676-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	.78	.65	.52
SN74LVTH16241DGGR	296-8676-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		692.00/2,000	
SN74LVTH16241DL	296-12919-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	.78	.65	.52
SN74LVTH16244ADGGR	296-1260-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	.78	.65	.52
SN74LVTH16244ADGGR	296-1260-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		692.00/2,000	
SN74LVTH16244ADGVR	296-8677-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVSOP	.78	.65	.52
SN74LVTH16244ADGVR	296-8677-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVSOP		692.00/2,000	
SN74LVTH16244ADL	296-1261-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	.78	.65	.52
SN74LVTH16244ADLR	296-1261-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	.78	.65	.52
SN74LVTH16244ADLR	296-1261-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP		346.00/1,000	
SN74LVTH16244AGQLR	296-8678-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVFBGA	.78	.65	.52
SN74LVTH16244AGQLR	296-8678-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVFBGA		346.00/1,000	
SN74LVTH16245ADGGR	296-1262-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TSSOP	.78	.65	.52
SN74LVTH16245ADGGR	296-1262-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TSSOP		692.00/2,000	
SN74LVTH16245ADGVR	296-8679-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVSOP	.78	.65	.52
SN74LVTH16245ADGVR	296-8679-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVSOP		692.00/2,000	
SN74LVTH16245ADL	296-8680-5-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	.78	.65	.52
SN74LVTH16245ADLR	296-8680-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	.78	.65	.52
SN74LVTH16245ADLR	296-8680-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP		346.00/1,000	
SN74LVTH16245AGQLR	296-8681-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVFBGA	.78	.65	.52
SN74LVTH16245AGQLR	296-8681-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVFBGA		346.00/1,000	
SN74LVTH162541DGGR	296-8682-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	4.05	3.24	2.52
SN74LVTH162541DGGR	296-8682-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		4590.00/2,000	
SN74LVTH162541DL	296-8683-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	4.05	3.24	2.52
SN74LVTH16373DGGR	296-8684-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-TSSOP	.78	.65	.52
SN74LVTH16373DGGR	296-8684-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-TSSOP		692.00/2,000	
SN74LVTH16373DL	296-8685-5-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP	.78	.65	.52
SN74LVTH16373DLR	296-8685-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP	.78	.65	.52
SN74LVTH16373DLR	296-8685-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP		346.00/1,000	
SN74LVTH16373GQLR	296-8686-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-TVFBGA	.78	.65	.52
SN74LVTH16373GQLR	296-8686-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-TVFBGA		346.00/1,000	
SN74LVTH16374DGGR	296-1263-1-ND	Tri-State ABT 16-Bit D-Type Flip-Flop	48-TSSOP	.78	.65	.52
SN74LVTH16374DGGR	296-1263-2-ND	Tri-State ABT 16-Bit D-Type Flip-Flop	48-TSSOP		692.00/2,000	
SN74LVTH16374DLR	296-1264-1-ND	Tri-State ABT 16-Bit D-Type Flip-Flop	48-SSOP	.78	.65	.52
SN74LVTH16374DLR	296-1264-2-ND	Tri-State ABT 16-Bit D-Type Flip-Flop	48-SSOP		346.00/1,000	
SN74LVTH16374GQLR	296-8688-1-ND	Tri-St. ABT 16-Bit D-Type Flip-Flop	48-TVFBGA	.78	.65	.52
SN74LVTH16374GQLR	296-8688-2-ND	Tri-St. ABT 16-Bit D-Type Flip-Flop	48-TVFBGA		346.00/1,000	
SN74LVTH16374DL	296-1264-5-ND	Tri-State ABT 16-Bit D-Type Flip-Flop	48-SSOP	.78	.65	.52
SN74LVTH16500DGGR	296-8689-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP	2.48	1.98	1.54
SN74LVTH16500DGGR	296-8689-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP		2806.00/2,000	
SN74LVTH16500DL	296-8690-5-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-SSOP	2.48	1.98	1.54
SN74LVTH16500GQLR	296-12476-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-VFBGA	2.59	2.07	1.61
SN74LVTH16500GQLR	296-12476-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-VFBGA		1466.00/1,000	
SN74LVTH16501DGGR	296-8691-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP	2.13	1.70	1.28
SN74LVTH16501DGGR	296-8691-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP		2210.00/2,000	
SN74LVTH16501DL	296-8692-5-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-SSOP	2.13	1.70	1.28
SN74LVTH16541DGGR	296-8693-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	3.60	2.88	2.24
SN74LVTH16541DGGR	296-8693-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		4080.00/2,000	
SN74LVTH16541DL	296-12920-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	3.60	2.88	2.24
SN74LVTH16543DGGR	296-1265-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	1.25	1.00	.75
SN74LVTH16543DGGR	296-1265-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP		1300.00/2,000	
SN74LVTH16543DL	296-1710-5-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	1.25	1.00	.75
SN74LVTH16543DLR	296-1710-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	1.25	1.00	.75
SN74LVTH16543DLR	296-1710-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP		650.00/1,000	
SN74LVTH16646DGGR	296-1266-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	2.36	1.89	1.47
SN74LVTH16646DGGR	296-1266-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP		2678.00/2,000	
SN74LVTH16646DL	296-1711-5-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	2.36	1.89	1.47
SN74LVTH16652DGGR	296-1267-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	5.70	4.56	3.85
SN74LVTH16652DGGR	296-1267-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP		7126.00/2,000	
SN74LVTH16652DL	296-1712-5-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	5.70	4.56	3.85
SN74LVTH16835DGGR	296-8694-1-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-TSSOP	3.83	3.06	2.38
SN74LVTH16835DGGR	296-8694-2-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-TSSOP		4336.00/2,000	
SN74LVTH16835DL	296-8695-5-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-SSOP	3.83	3.06	2.38
SN74LVTH16952DGGR	296-1268-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	2.00	1.60	1.20
SN74LVTH16952DGGR	296-1268-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP		2080.00/2,000	
SN74LVTH16952DL	296-1713-5-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	2.00	1.60	1.20
SN74LVTH18502APM	296-8699-ND	ABT Scan Test Device with 18-Bit Transceiver	64-TQFP	6.00	4.80	4.05
SN74LVTH18504APM	296-8700-ND	ABT Scan Test Device with 20-Bit Transceiver	64-TQFP	6.00	4.80	4.05
SN74LVTH18512DGGR	296-8701-1-ND	ABT Scan Test Device with 18-Bit Transceiver	64-TSSOP	6.00	4.80	4.05
SN74LVTH18512DGGR	296-8701-2-ND	ABT Scan Test Device with 18-Bit Transceiver	64-TSSOP		7500.00/2,000	
SN74LVTH18514DGGR	296-8702-1-ND	ABT Scan Test Device with 20-Bit Transceiver	64-TSSOP	6.00	4.80	4.05
SN74LVTH18514DGGR	296-8702-2-ND	ABT Scan Test Device with 20-Bit Transceiver	64-TSSOP		7500.00/2,000	
SN74LVTH18646APM	296-8703-ND	ABT Scan Test Device w/18-Bit Transceiver and Registers	64-TQFP	13.66	12.30	10.91
SN74LVTH18652APM	296-12994-5-ND	3.3V ABT Scan Test Device with 18-Bit Transceiver and Register	64-TQFP	13.66	12.30	10.91
SN74LVTH32244GKER	296-8716-1-ND	Tri-State ABT 32-Bit Buffer/Driver	96-BGA	4.05	3.24	2.52
SN74LVTH32244GKER	296-8716-2-ND	Tri-State ABT 32-Bit Buffer/Driver	96-BGA		2250.00/1,000	
SN74LVTH32245GKER	296-9882-1-ND	Tri-State ABT 32-Bit Bus Transceiver	96-BGA	4.39	3.51	2.73
SN74LVTH32245GKER	296-9882-2-ND	Tri-State ABT 32-Bit Bus Transceiver	96-BGA		2438.00/1,000	
SN74LVTH32373GKER	296-8717-1-ND	Tri-State ABT 32-Bit D-Type Latch	96-BGA	4.05	3.24	2.52
SN74LVTH32373GKER	296-8717-2-ND	Tri-State ABT 32-Bit D-Type Latch	96-BGA		2295.00/1,000	
SN74LVTH32374GKER	296-9883-1-ND	Tri-State ABT 32-Bit D-Type Flip-Flop	96-BGA	4.05	3.24	2.52
SN74LVTH32374GKER	296-9883-2-ND	Tri-State ABT 32-Bit D-Type Flip-Flop	96-BGA		2250.00/1,000	
SN74LVTH162240DGGR	296-8665-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	.78	.65	.52
SN74LVTH162240DGGR	296-8665-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		692.00/2,000	
SN74LVTH162240DL	296-8666-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	.78	.65	.52
SN74LVTH162241DGGR	296-8667-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	.78	.65	.52
SN74LVTH162241DGGR	296-8667-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		692.00/2,000	
SN74LVTH162241DL	296-12917-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	.78	.65	.52
SN74LVTH162244DGGR	296-1258-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	.78	.65	.52
SN74LVTH162244DGGR	296-1258-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP		692.00/2,000	
SN74LVTH162244DL	296-1259-5-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	.78	.65	.52
SN74LVTH162244DLR	296-1259-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	.78	.65	.52
SN74LVTH162244DLR	296-1259-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP		346.00/1,000	
SN74LVTH162244KR	296-13296-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	56-VFBGA	.78	.65	.52
SN74LVTH162244KR	296-13296-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	56-VFBGA		346.00/1,000	
SN74LVTH162245DGGR	296-8669-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	.78	.65	.52
SN74LVTH162245DGGR	296-8669-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP		692.00/2,000	
SN74LVTH162245DL	296-8670-5-ND	Tri-St. 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	.78	.65	.52
SN74LVTH162245DLR	296-8670-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	.78	.65	.52
SN74LVTH162245DLR	296-8670-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP		346.00/1,000	
SN74LVTH162245KR	296-13297-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	.78	.65	.52
SN74LVTH162245KR	296-13297-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA		346.00/1,000	
SN74LVTH162373DGGR	296-8671-1-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-TSSOP	.78	.65	.52
SN74LVTH162373DGGR	296-8671-2-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-TSSOP		692.00/2,000	
SN74LVTH162373DL	296-12918-5-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-SSOP	.78	.65	.52
SN74LVTH162373KR	296-12665-1-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	56-VFBGA	.78	.65	.52
SN74LVTH162373KR	296-12665-2-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	56-VFBGA		346.00/1,000	
SN74LVTH162374DGGR	296-8672-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	.78	.65	.52
SN74LVTH162374DGGR	296-8672-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP		692.00/2,000	
SN74LVTH162374DL	296-8673-5-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	.78	.65	.52
SN74LVTH162374KR	296-13298-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	.78	.65	.52
SN74LVTH162374KR	296-13298-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA		346.00/1,000	
SN74LVTH182502APM	296-8696-ND	ABT Scan Test Device w/18-Bit Xcvr.	64-TQFP	6.00	4.80	4.05
SN74LVTH182504APM	296-8697-ND	ABT Scan Test Device w/20-Bit Xcvr.	64-TQFP	6.00	4.80	4.05
SN74LVTH182512DGGR	296-8698-1-ND	ABT Scan Test Device w/18-Bit Xcvr.	64-TSSOP	6.00	4.80	4.05
SN74LVTH182512DGGR	296-8698-2-ND	ABT Scan Test Device w/18-Bit Xcvr.	64-TSSOP		7500.00/2,000	
SN74LVTH182652APM	296-14323-ND	3.3V ABT Scan Test Device *NEW!*	64-LQFP	13.66	12.30	10.91
SN74LVTH322374KR	296-13299-1-ND	Tri-State, 3.3V, ABT, 32-Bit, Edge-Triggered D-Type Flip-Flop	96-LFBGA	2.43	1.95	1.52
SN74LVTH322374KR	296-13299-2-ND	Tri-State, 3.3V, ABT, 32-Bit, Edge-Triggered D-Type Flip-Flop	96-LFBGA		1377.00/1,000	

LVTZ Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTZ244DBR	296-12927-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	1.88	1.50	1.13
SN74LVTZ244DBR	296-12927-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP		1950.00/2,000	
SN74LVTZ244DW	296-11806-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	48-SSOP	1.88	1.50	1.13
SN74LVTZ244PWR	296-12928-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	1.88	1.50	1.13
SN74LVTZ244PWR	296-12928-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP		1950.00/2,000	

LVU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVU04AD	296-1722-5-ND	Unbuffered Hex Inverter	14-SOIC	.60	.45	.34
SN74LVU04ADBR	296-9884-1-ND	Unbuffered Hex Inverter	14-SSOP	.60	.45	.34
SN74LVU04ADBR	296-9884-2-ND	Unbuffered Hex Inverter	14-SSOP		400.00/2,000	
SN74LVU04ADGVR	296-12929-1-ND	Unbuffered Hex Inverter	14-TVSOP	.60	.45	.34
SN74LVU04ADGVR	296-12929-2-ND	Unbuffered Hex Inverter	14-TVSOP		400.00/2,000	
SN74LVU04APWR	296-9885-1-ND	Unbuffered Hex Inverter	14-TSSOP	.60	.45	.34
SN74LVU04APWR	296-9885-2-ND	Unbuffered Hex Inverter	14-TSSOP		400.00/2,000	
SN74LVU04ARGYR	296-13990-1-ND	Unbuffered Hex Inverter *NEW!*	14-QFN	.68	.51	.39
SN74LVU04ARGYR	296-13990-2-ND	Unbuffered Hex Inverter *NEW!*	14-QFN		226.00/1,000	

MLVD Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65MLVD200D	296-12207-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	3.65	2.92	2.27
SN65MLVD202D	296-12208-5-ND	High Speed Diff. Line Driver/Receiver	14-SOIC	3.65	2.92	2.27
SN65MLVD204D	296-12209-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	3.65	2.92	2.27
SN65MLVD205D	296-12210-5-ND	High Speed Diff. Line Driver/Receiver	14-SOIC	3.65	2.92	2.27

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TEXAS INSTRUMENTS DIGITAL LOGIC *(Continued)*

74S Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74S00N	296-1723-5-ND	Quad 2-Input NAND Gate	14-Dip	.64	.48	.36
SN74S04N	296-1724-5-ND	Hex Inverter	14-Dip	.64	.48	.36
SN74S37NSR	296-13301-1-ND	Quad 2-Input Pos. NAND Buffer	14-SOP	1.02	.85	.68
SN74S37NSR	296-13301-2-ND	Quad 2-Input Pos. NAND Buffer	14-SOP	904.00/2,000		
SN74S38D	296-1732-5-ND	Quad 2-Input NAND with OC	14-SOIC	1.02	.85	.68
SN74S38N	296-1733-5-ND	Quad 2-Input NAND with OC	14-Dip	1.02	.85	.68
SN74S74N	296-1734-5-ND	Dual D-Type Flip-Flop	14-Dip	.96	.72	.54
SN74S138AN	296-1728-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.93	.78	.62
SN74S240N	296-1729-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.63	1.30	.98
SN74S244N	296-1730-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.63	1.30	.98
SN74S1051DR	296-14193-1-ND	12-Bit, Schottky Termination Array *NEW!*	16-SOIC	1.93	1.54	1.16
SN74S1051DR	296-14193-2-ND	12-Bit, Schottky Termination Array *NEW!*	16-SOIC	2465.00/2,500		
SN74S1053DW	296-1726-5-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	1.88	1.50	1.13
SN74S1053PWR	296-13703-1-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-TSSOP	1.88	1.50	1.13
SN74S1053PWR	296-13703-2-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-TSSOP	1950.00/2,000		
SN74S1053N	296-1727-5-ND	16-Bit Termination Array	20-Dip	1.88	1.50	1.13

SSTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74SSTL16837ADGGR	296-9886-1-ND	Tri-State 20-Bit Universal Bus Driver	64-TSSOP	7.50	6.00	5.07
SN74SSTL16837ADGGR	296-9886-2-ND	Tri-State 20-Bit Universal Bus Driver	64-TSSOP	9376.00/2,000		
SN74SSTL16847DGGR	296-1274-1-ND	20-Bit SSTL-3 Buffer	64-TSSOP	7.50	6.00	5.07
SN74SSTL16847DGGR	296-1274-2-ND	20-Bit SSTL-3 Buffer	64-TSSOP	9376.00/2,000		
SN74SSTL16857DGGR	296-9887-1-ND	14-Bit Registered Buffer	48-TSSOP	7.00	5.60	4.73
SN74SSTL16857DGGR	296-9887-2-ND	14-Bit Registered Buffer	48-TSSOP	8750.00/2,000		

SSTV Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74SSTV16857DGGR	296-13302-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	2.48	1.98	1.54
SN74SSTV16857DGGR	296-13302-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	2806.00/2,000		
SN74SSTV16857DGVR	296-12039-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	2.48	1.98	1.54
SN74SSTV16857DGVR	296-12039-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	2806.00/2,000		
SN74SSTV16859DGGR	296-13303-1-ND	13-to-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	3.38	2.70	2.10
SN74SSTV16859DGGR	296-13303-2-ND	13-to-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	3826.00/2,000		
SN74SSTV16859RGQR	296-14377-1-ND	13-to-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs *NEW!*	56-QFN	3.71	2.97	2.31
SN74SSTV16859RGQR	296-14377-2-ND	13-to-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs *NEW!*	56-QFN	4208.00/2,000		
SN74SSTV32852GKFR	296-13304-1-ND	24-to-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	5.00	4.00	3.38
SN74SSTV32852GKFR	296-13304-2-ND	24-to-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	3125.00/1,000		
SN74SSTV32867GKER	296-13305-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Outputs	96-LFBGA	5.50	4.40	3.72
SN74SSTV32867GKER	296-13305-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Outputs	96-LFBGA	3438.00/1,000		
SN74SSTV32877GKER	296-13306-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	96-LFBGA	5.50	4.40	3.72
SN74SSTV32877GKER	296-13306-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	96-LFBGA	3438.00/1,000		
SN74SSTVF16857GR	296-13636-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	2.48	1.98	1.54
SN74SSTVF16857GR	296-13636-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	2806.00/2,000		
SN74SSTVF16857VR	296-13637-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	2.48	1.98	1.54
SN74SSTVF16857VR	296-13637-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	2806.00/2,000		

TTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN10KHT5541DW	296-9688-5-ND	Tri-State ECL to TTL Translator	24-SOIC	5.90	4.72	3.99
SN10KHT5541NT	296-9689-5-ND	Tri-State ECL to TTL Translator	24-Dip	5.90	4.72	3.99
SN7400N	296-14641-5-ND	Quad 2-Input NAND Gate *NEW!*	14-Dip	.96	.72	.54
SN7404N	296-14642-5-ND	Hex Inverter *NEW!*	14-Dip	.96	.72	.54
SN7406DR	296-1017-1-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	.46	.37	.26
SN7406DR	296-1017-2-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	297.50/2,500		
SN7406N	296-1435-5-ND	Hex Inverter Buffer/Driver w/HV Output	14-Dip	.46	.37	.26
SN7407D	296-1018-5-ND	Hex Buffer/Driver with OC HV Output	14-SOIC	.46	.37	.26
SN7407N	296-1436-5-ND	Hex Buffer/Driver with OC HV Output	14-Dip	.46	.37	.26
SN7414NSR	296-13127-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.87	.73	.58
SN7414NSR	296-13127-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	772.00/2,000		
SN7416N	296-14646-5-ND	Hex Inverter with OC HV Output *NEW!*	14-Dip	.84	.70	.56
SN7417N	296-14647-5-ND	Hex Buffer with OC HV Output *NEW!*	14-Dip	.78	.65	.52
SN7438N	296-14648-5-ND	Quad 2-Input NAND Buffer *NEW!*	14-Dip	.88	.66	.50
SN74128NSR	296-13126-1-ND	2-Input NOR Line Driver	14-SOP	1.05	.88	.70
SN74128NSR	296-13126-2-ND	2-Input NOR Line Driver	14-SOP	932.00/2,000		
SN74154N	296-8757-5-ND	4-Line to 16-line Decoder/Demux	24-Dip	2.13	1.70	1.28

VMEH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74VMEH22501DGGR	296-13309-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	48-TSSOP	2.81	2.25	1.75
SN74VMEH22501DGGR	296-13309-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	48-TSSOP	3188.00/2,000		
SN74VMEH22501DGVR	296-13310-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	48-TVSOP	2.81	2.25	1.75
SN74VMEH22501DGVR	296-13310-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	48-TVSOP	3188.00/2,000		
SN74VMEH22501GQLR	296-13311-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	56-VFBGA	3.15	2.52	1.96
SN74VMEH22501GQLR	296-13311-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	56-VFBGA	1785.00/1,000		

TEXAS INSTRUMENTS DIGITAL RADIO

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DIT4096IPW	DIT4096IPW-ND	5V, 96kHz Digital Audio Transmitter	28-TSSOP	3.11	2.49	1.94
DIT4192IPW	DIT4192IPW-ND	5V, 192kHz Digital Audio Transmitter	28-TSSOP	4.16	3.33	2.59
GC2011A-PB	296-12259-ND	Digital Filter	160-BGA	144.38	—	—
GC2011A-PQ	296-12260-ND	Digital Filter	160-QFP	137.49	—	—
GC4016-PB	296-12264-ND	Digital Quad Downconverter	160-PBGA	90.02	—	—
GC4116-PB	296-12266-ND	Digital Quad Upconverter	160-PBGA	90.02	—	—

TEXAS INSTRUMENTS DIGITAL SIGNAL PROCESSORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TMS32C6414DGLZ5E0	296-14382-ND	500MHz Fixed Point DSP *NEW!*	532-BGA	124.59	116.29	107.98
TMS32C6414DGLZ6E3	296-14383-ND	600MHz Fixed Point DSP *NEW!*	532-BGA	153.68	143.43	133.19
TMS32C6415DGLZ5E0	296-14384-ND	500MHz Fixed Point DSP *NEW!*	532-BGA	137.06	127.92	118.79
TMS32C6415DGLZ6E3	296-14385-ND	600MHz Fixed Point DSP *NEW!*	532-BGA	186.90	174.44	161.98
TMS32C6416DGLZ5E0	296-14386-ND	500MHz Fixed Point DSP *NEW!*	532-BGA	150.90	140.84	130.78
TMS32C6416DGLZ6E3	296-14387-ND	600MHz Fixed Point DSP *NEW!*	532-BGA	207.66	193.82	179.98
TMS320C206PZ80	296-2001-5-ND	Fixed Point DSP	100-LQFP	14.54	13.10	11.62
TMS320C206PZA80	296-2002-5-ND	Fixed Point DSP	100-LQFP	16.01	14.42	12.79
TMS320C32PCM40	296-1928-5-ND	40MHz DSP	144-PQFP	15.74	14.18	12.57
TMS320C6201GJC200	296-10743-ND	Fixed Point DSP	352-BGA	117.86	110.00	102.15
TMS320C6201GJL200	296-10744-ND	Fixed Point DSP	352-BGA	117.86	110.00	102.15
TMS320C6202BGNY300	296-14380-ND	Fixed Point DSP *NEW!*	384-BGA	95.69	89.31	82.93
TMS320C6202BGNZ300	296-14381-ND	Fixed Point DSP *NEW!*	352-BGA	95.69	89.31	82.93
TMS320C6202GJL250	296-10745-ND	Fixed Point DSP	352-BGA	156.87	146.42	135.96
TMS320C6202GLS250	296-10746-ND	Fixed Point DSP	384-BGA	156.87	146.42	135.96
TMS320C6203BGNY173	296-13800-ND	Fixed Point DSP	384-BGA	86.12	80.38	74.64
TMS320C6203BGNY300	296-13801-ND	Fixed Point DSP	384-BGA	102.06	95.26	88.46
TMS320C6204GHK200	296-12672-ND	Fixed Point DSP	288-BGA	15.74	14.18	12.57
TMS320C6204GLW200	296-13381-5-ND	Fixed Point DSP	340-BGA	29.82	27.84	25.85
TMS320C6205GHK200	296-12673-ND	High Performance, Fixed Point DSP	288-BGA	15.32	14.30	13.28
TMS320C6211BGFN150	296-12559-ND	Fixed Point DSP	256-BGA	30.69	28.65	26.60
TMS320C6211BGFN167	296-12560-ND	Fixed Point DSP	256-BGA	38.37	35.82	33.26
TMS320C6211GFN150	296-10747-ND	Fixed Point DSP	150-BGA	30.69	28.65	26.60
TMS320C6701GJC150	296-10748-ND	Floating Point DSP	352-BGA	111.96	104.50	97.04
TMS320C6711BGFN100	296-12561-ND	Floating Point DSP	256-BGA	30.69	28.65	26.60
TMS320C6711BGFN150	296-12562-ND	Floating Point DSP	256-BGA	43.85	40.93	38.00
TMS320C6712GFN100	296-13509-ND	Floating Point DSP	256-BGA	25.74	24.03	22.31
TMS320F206PZ	296-2007-5-ND	CMOS DSP	100-TQFP	20.94	19.55	18.15
TMS320F240PQ	296-2009-5-ND	CMOS DSP Controller	132-BQFP	23.10	21.56	20.02
TMS320F240PQA	296-2010-5-ND	CMOS DSP Controller	132-BQFP	23.10	21.56	20.02
TMS320F240PQS	296-2011-5-ND	CMOS DSP Controller	132-BQFP	25.41	23.72	22.03
TMS320F241FN	296-10750-5-ND	16-Bit Fixed Point DSP	68-PLCC	19.04	17.77	16.50
TMS320F241FNA	296-10751-5-ND	16-Bit Fixed Point DSP	68-PLCC	19.04	17.77	16.50
TMS320F241FNS	296-10752-5-ND	16-Bit Fixed Point DSP	68-PLCC	20.94	19.55	18.15
TMS320F241PG	296-10753-ND	16-Bit Fixed Point DSP	64-PQFP	17.63	16.45	15.28
TMS320F241PGA	296-10754-ND	16-Bit Fixed Point DSP	64-PQFP	17.63	16.45	15.28
TMS320F243PGE	296-10755-ND	16-Bit Fixed Point DSP	144-TQFP	19.94	18.61	17.28
TMS320F243PGEA	296-10756-ND	16-Bit Fixed Point DSP	144-TQFP	19.94	18.61	17.28
TMS320LC206PZ80	296-2012-5-ND	CMOS DSP	100-TQFP	16.01	14.42	12.79
TMS320LC206PZA80	296-2013-5-ND	CMOS DSP	100-TQFP	15.86	14.80	13.75
TMS320LC541BPZ-66	296-1930-5-ND	Fixed Point DSP	100-TQFP	14.68	13.22	11.72
TMS320LC545APBK-50	296-2014-5-ND	Fixed Point DSP	128-TQFP	23.42	21.86	20.30
TMS320LF2401AVFA	296-14411-ND	DSP Controller *NEW!*	32-LQFP	9.88	7.91	6.67
TMS320LF2402APGA	296-12544-ND	16-Bit Fixed Point DSP with 8K Flash	64-QFP	12.48	11.24	9.97
TMS320LF2402APGS	296-12545-ND	16-Bit Fixed Point DSP with 8K Flash	64-QFP	13.71	12.35	10.95
TMS320LF2403APAGA	296-12674-ND	HP CMOS DSP Controller	64-TQFP	13.81	12.44	11.03
TMS320LF2403APAGS	296-12675-ND	HP CMOS DSP Controller	64-TQFP	15.19	13.68	12.13
TMS320LF2406APZA	296-12546-ND	16-Bit Fixed Point DSP with 32K Flash	100-LQFP	13.98	12.63	11.20
TMS320LF2406APZS	296-12547-ND	16-Bit Fixed Point DSP with 32K Flash	100-LQFP	15.43	13.89	12.32
TMS320LF2407APGEA	296-12548-ND	16-Bit Fixed Point DSP with 32K Flash	144-LQFP	14.86	13.38	11.87
TMS320LF2407APGES	296-12549-ND	16-Bit Fixed Point DSP with 32K Flash	144-LQFP	14.72	13.74	12.76
TMS320UC5402GGU-80	296-10759-ND	Fixed Point DSP	144-TQFP	10.75	9.68	8.58
TMS320UC5402PGE-80	296-10760-ND	Fixed Point DSP	144-TQFP	10.75	9.68	8.58
TMS320UC5409GGU-80	296-12112-ND	80MHz Fixed Point DSP	144-BGA	19.47	18.18	16.88
TMS320UC5409PGE-80	296-12146-5-ND	Fixed Point DSP	144-LQFP	19.47	18.18	16.88
TMS320VC549GGU-100	296-2016-5-ND	Fixed Point DSP	144-BGA	37.97	35.44	32.91
TMS320VC549GGU-80	296-1933-5-ND	Fixed Point DSP	144-BGA	34.47	32.18	29.88
TMS320VC549PGE-80	296-1935-5-ND	Fixed Point DSP	144-TQFP	34.47	32.18	29.88
TMS320VC5401GGU50	296-12147-5-ND	Fixed Point DSP	144-BGA	7.80	6.24	5.27
TMS320VC5401PGE50	296-12148-5-ND	Fixed Point DSP	144-LQFP	7.80	6.24	5.27
TMS320VC5402AGGU16	296-12676-ND	Fixed Point DSP	144-BGA	16.03	14.43	12.80
TMS320VC5402APGE16	296-12677-ND	Fixed Point DSP	144-LQFP	16.03	14.43	12.80
TMS320VC5402GGU100	296-10761-ND	Fixed Point DSP	144-BGA	9.72	7.78	6.57
TMS320VC5402PGE100	296-10762-ND	Fixed Point DSP	144-TQFP	9.72	7.78	6.57
TMS320VC5409AGGU12	296-12073-ND	120MHz Fixed Point DSP	144-BGA	15.89	14.83	13.77
TMS320VC5409AGGU16	296-12074-ND	160MHz Fixed Point DSP	144-BGA	18.14	16.93	15.72
TMS320VC5409APGE12	296-12075-ND	120MHz Fixed Point DSP	144-LQFP	15.89	14.83	13.77
TMS320VC5409APGE16	296-12076-ND	160MHz Fixed Point DSP	144-LQFP	18.14	16.93	15.72
TMS320VC5409GGU100	296-10763-ND	Fixed Point DSP	144-BGA	15.41	13.88	12.31
TMS320VC5409PGE100	296-10764-ND	Fixed Point DSP	144-TQFP	15.41	13.88	12.31
TMS320VC5410AGGU12	296-12077-ND	120MHz Fixed Point DSP	144-BGA	19.68	18.37	17.06
TMS320VC5410AGGU16	296-12078-ND	160MHz Fixed Point DSP	144-BGA	21.81	20.36	18.91
TMS320VC5410APGE12	296-12079-ND	120MHz Fixed Point DSP	144-LQFP	19.68	18.37	17.06
TMS320VC5410APGE16	296-12080-ND	160MHz Fixed Point DSP	144-LQFP	21.81	20.36	18.91
TMS320VC5410GGW100	296-10765-ND	Fixed Point DSP	176-PBGA	43.32	40.44	37.55
TMS320VC5410PGE100	296-10766-ND	Fixed Point DSP	144-TQFP	43.32	40.44	37.55
TMS320VC5416GGU120	296-12168-ND	120MHz Fixed Point DSP	144-BGA	32.79	30.61	28.42
TMS320VC5416GGU160	296-11660-ND	160MHz Fixed Point DSP	144-BGA	36.44	34.01	31.58
TMS320VC5416PGE120	296-12169-ND	120MHz Fixed Point DSP	144-BGA	32.79	30.61	28.42
TMS320VC5416PGE160	296-12170-ND	160MHz Fixed Point DSP	144-BGA	36.44	34.01	31.58
TMS320VC5420GGU200	296-10767-ND	Fixed Point DSP	144-BGA	82.17	76.70	71.22
TMS320VC5420PGE200	296-12191-ND	Fixed Point DSP	144-LQFP	82.17	76.70	71.22
TMS320VC5421GGU200	296-10768-ND	Fixed Point DSP	144-BGA	84.18	78.57	72.96
TMS320VC5421PGE200	296-10769-ND	Fixed Point DSP	144-TQFP	84.18	78.57	72.96
TMS320VC5470GHK	296-12751-ND	100MHz Fixed Point DSP	257-BGA	15.23	14.21	13.20
TMS320VC5471GHK	296-12752-ND	100MHz Fixed Point DSP	257-BGA	16.58	15.47	14.37
TMS320VC5509GHH31	296-14412-ND	144MHz Fixed Point DSP *NEW!*	179-BGA	28.50	26.60	24.70
TMS320VC5509PGE31	296-14413-ND	144MHz Fixed Point DSP *NEW!*	144-LQFP	28.50	26.60	24.70
TMS320VC5510AGGW2	296-14199-5-ND	200Mhz Fixed Point DSP *NEW!*	240-BGA	34.20	31.92	29.64
TMS320VC5510GGW2	296-13826-ND	200MHz Fixed Point DSP *NEW!*	240-BGA	34.20	31.92	29.64
TMSC6701GJC16719V	296-10771-ND	Floating Point DSP	352-BGA	161.22	150.48	139.73

Development Tools

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TMDS3P701840	296-13851-ND	C5416 DSP Starter Kit (DSK)	—	503.63	—	—

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA8550DBR	296-9630-1-ND	Non-Volatile 5-Bit Register with I2C Interface	16-SSOP	1.38	1.10	.83
PCA8550DBR	296-9630-2-ND	Non-Volatile 5-Bit Register with I2C Interface	16-SSOP	1430.00/2,000		
PCA8550DR	296-9631-1-ND	Non-Volatile 5-Bit Register with I2C Interface	16-SOP	1.38	1.10	.83
PCA8550DR	296-9631-2-ND	Non-Volatile 5-Bit Register with I2C Interface	16-SOP	1760.00/2,500		
PCA8550PWR	296-9632-1-ND	Non-Volatile 5-Bit Register with I2C Interface	16-TSSOP	1.38	1.10	.83
PCA8550PWR	296-9632-2-ND	Non-Volatile 5-Bit Register with I2C Interface	16-TSSOP	1430.00/2,000		
SN74ABT3611-15PCB	296-3978-ND	64x36 Synchronous FIFO Memory	120-HLQFP	15.94	14.36	12.73
SN74ABT3611-15PQ	296-3979-ND	64x36 Synchronous FIFO Memory	132-BQFP	15.94	14.36	12.73
SN74ABT3611-20PCB	296-3980-ND	64x36 Synchronous FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3611-20PQ	296-3981-ND	64x36 Synchronous FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT3611-30PCB	296-3982-ND	64x36 Synchronous FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3611-30PQ	296-3983-ND	64x36 Synchronous FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT3612-15PCB	296-3984-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.18	13.67	12.12
SN74ABT3612-15PQ	296-3985-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.18	13.67	12.12
SN74ABT3612-20PCB	296-3986-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	14.96	13.47	11.95
SN74ABT3612-20PQ	296-3987-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	14.96	13.47	11.95
SN74ABT3612-30PCB	296-3988-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3612-30PQ	296-3989-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT3613-15PCB	296-3990-ND	64x36 Synchronous FIFO Memory	120-HLQFP	15.94	14.36	12.73
SN74ABT3613-15PQ	296-3991-ND	64x36 Synchronous FIFO Memory	132-BQFP	15.94	14.36	12.73
SN74ABT3613-20PCB	296-3992-ND	64x36 Synchronous FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3613-20PQ	296-3993-ND	64x36 Synchronous FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT3613-30PCB	296-3994-ND	64x36 Synchronous FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3613-30PQ	296-3995-ND	64x36 Synchronous FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT3614-15PCB	296-3996-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.18	13.67	12.12
SN74ABT3614-15PQ	296-3997-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.18	13.67	12.12
SN74ABT3614-20PCB	296-3998-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	14.96	13.47	11.95
SN74ABT3614-20PQ	296-3999-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	14.96	13.47	11.95
SN74ABT3614-30PCB	296-4000-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3614-30PQ	296-4001-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT7820-15PH	296-4080-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	17.82	16.64	15.45
SN74ABT7820-15PN	296-4081-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	17.82	16.64	15.45
SN74ABT7820-20PH	296-4082-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	17.82	16.64	15.45
SN74ABT7820-20PN	296-4083-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	17.82	16.64	15.45
SN74ABT7820-25PH	296-4084-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	10.56	9.51	8.44
SN74ABT7820-25PN	296-4085-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	10.56	9.51	8.44
SN74ABT7820-30PH	296-4086-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	15.35	14.33	13.30
SN74ABT7820-30PN	296-4087-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	15.35	14.33	13.30
SN74ACT2226DW	296-4370-5-ND	Dual 64x1 FIFO Memory	24-SOIC	5.40	4.32	3.36
SN74ACT2227DW	296-4371-5-ND	Dual 64x1 FIFO Memory	28-SOIC	5.40	4.32	3.36
SN74ACT2228DW	296-4372-5-ND	Dual 256x1 FIFO Memory	24-SOIC	5.40	4.32	3.36
SN74ACT2229DW	296-4373-5-ND	Dual 256x1 FIFO Memory	28-SOIC	6.00	4.80	4.05
SN74ACT2235-20PAG	296-4374-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT2235-40FN	296-4375-5-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT2235-60FN	296-4376-5-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	44-PLCC	10.66	9.60	8.52
SN74ACT3622-15PCB	296-4390-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3622-15PQ	296-4391-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-PQFP	17.82	16.64	15.45
SN74ACT3622-20PCB	296-4392-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3622-20PQ	296-4393-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-PQFP	17.82	16.64	15.45
SN74ACT3622-30PCB	296-4394-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-TQFP	15.35	14.33	13.30
SN74ACT3622-30PQ	296-4395-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-PQFP	15.35	14.33	13.30
SN74ACT3631-15PCB	296-4396-ND	512x36 Clocked FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3631-15PQ	296-4397-ND	512x36 Clocked FIFO Memory	132-PQFP	17.82	16.64	15.45
SN74ACT3631-20PCB	296-4398-ND	512x36 Clocked FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3631-20PQ	296-4399-ND	512x36 Clocked FIFO Memory	132-PQFP	17.82	16.64	15.45
SN74ACT3631-30PCB	296-4400-ND	512x36 Clocked FIFO Memory	120-TQFP	15.35	14.33	13.30
SN74ACT3631-30PQ	296-4401-ND	512x36 Clocked FIFO Memory	132-PQFP	15.35	14.33	13.30
SN74ACT3632-15PCB	296-4402-ND	512x36x2 Bi-Directional FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3632-15PQ	296-4403-ND	512x36x2 Bi-Directional FIFO Memory	132-PQFP	17.82	16.64	15.45
SN74ACT3632-20PCB	296-4404-ND	512x36x2 Bi-Directional FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3632-20PQ	296-4405-ND	512x36x2 Bi-Directional FIFO Memory	132-PQFP	17.82	16.64	15.45
SN74ACT3632-30PCB	296-4406-ND	512x36x2 Bi-Directional FIFO Memory	120-TQFP	15.35	14.33	13.30
SN74ACT3632-30PQ	296-4407-ND	512x36x2 Bi-Directional FIFO Memory	132-PQFP	15.35	14.33	13.30
SN74ACT3641-15PCB	296-4408-ND	1K x 36 Clocked FIFO Memory	120-TQFP	22.28	20.79	19.31
SN74ACT3641-15PQ	296-4409-ND	1K x 36 Clocked FIFO Memory	132-PQFP	22.28	20.79	19.31
SN74ACT3641-20PCB	296-4410-ND	1K x 36 Clocked FIFO Memory	120-TQFP	21.78	20.33	18.88
SN74ACT3641-20PQ	296-4411-ND	1K x 36 Clocked FIFO Memory	132-PQFP	21.78	20.33	18.88
SN74ACT3641-30PCB	296-4412-ND	1K x 36 Clocked FIFO Memory	120-TQFP	21.78	20.33	18.88
SN74ACT3641-30PQ	296-4413-ND	1K x 36 Clocked FIFO Memory	132-PQFP	21.78	20.33	18.88
SN74ACT3651-15PCB	296-4414-ND	2K x 36 Synchronous FIFO Memory	120-TQFP	30.69	28.65	26.60
SN74ACT3651-15PQ	296-4415-ND	2K x 36 Synchronous FIFO Memory	132-PQFP	30.69	28.65	26.60
SN74ACT3651-20PCB	296-4416-ND	2K x 36 Synchronous FIFO Memory	120-TQFP	24.75	23.10	21.45
SN74ACT3651-20PQ	296-4417-ND	2K x 36 Synchronous FIFO Memory	132-PQFP	24.75	23.10	21.45
SN74ACT3651-30PCB	296-4418-ND	2K x 36 Synchronous FIFO Memory	120-TQFP	22.28	20.79	19.31
SN74ACT3651-30PQ	296-4419-ND	2K x 36 Synchronous FIFO Memory	132-PQFP	22.28	20.79	19.31
SN74ACT7802-25FN	296-4447-ND	1K x 18 Strobed FIFO Memory	68-TQFP	10.56	9.51	8.44
SN74ACT7802-25PN	296-4448-ND	1K x 18 Strobed FIFO Memory	80-TQFP	10.56	9.51	8.44
SN74ACT7803-15DL	296-4449-5-ND	512 x 18 Clocked FIFO Memory	56-SOP	13.19	11.88	10.54
SN74ACT7803-20DL	296-4450-5-ND	512 x 18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7803-25DL	296-4451-5-ND	512 x 18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7803-25DLR	296-4451-1-ND	512 x 18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7803-25DLR	296-4451-2-ND	512 x 18 Clocked FIFO Memory	56-SOP	1287.00/250		
SN74ACT7803-40DL	296-4452-5-ND	512 x 18 Clocked FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7804-20DL	296-4453-5-ND	512 x 18 Strobed FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7804-40DLR	296-4454-1-ND	512 x 18 Strobed FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7804-40DLR	296-4454-2-ND	512 x 18 Strobed FIFO Memory	56-SOP	1072.50/250		
SN74ACT7805-15DL	296-4455-5-ND	256 x 18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7805-20DL	296-4456-5-ND	256 x 18 Clocked FIFO Memory	56-SOP	14.96	13.47	11.95
SN74ACT7805-25DLR	296-4457-1-ND	256 x 18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7805-25DLR	296-4457-2-ND	256 x 18 Clocked FIFO Memory	56-SOP	1287.00/250		
SN74ACT7805-40DL	296-4458-5-ND	256 x 18 Clocked FIFO Memory	56-SOP	5.94	4.76	4.01
SN74ACT7806-20DL	296-4459-5-ND	256 x 18 Strobed FIFO Memory	56-SOP	14.96	13.47	11.95
SN74ACT7807-15FN	296-4460-5-ND	2K x 9 Clocked FIFO Memory	44-PLCC	17.82	16.64	15.45
SN74ACT7807-15PAG	296-4461-ND	2K x 9 Clocked FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT7807-20FN	296-4462-5-ND	2K x 9 Clocked FIFO Memory	44-PLCC	17.82	16.64	15.45
SN74ACT7807-20PAG	296-4463-ND	2K x 9 Clocked FIFO Memory	64-TQFP	17.82	16.64	15.45

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ACT7807-25FN	296-4464-5-ND	2K x 9 Clocked FIFO Memory	44-PLCC	10.56	9.51	8.44
SN74ACT7807-25PAG	296-4465-ND	2K x 9 Clocked FIFO Memory	64-TQFP	10.56	9.51	8.44
SN74ACT7807-40FN	296-4466-5-ND	2K x 9 Clocked FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT7807-40PAG	296-4467-ND	2K x 9 Clocked FIFO Memory	64-TQFP	11.55	10.40	9.22
SN74ACT7808-20FN	296-4468-5-ND	2K x 9 Strobed FIFO Memory	44-PLCC	17.82	16.64	15.45
SN74ACT7808-20PAG	296-4469-ND	2K x 9 Strobed FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT7808-25FN	296-4470-5-ND	2K x 9 Strobed FIFO Memory	44-PLCC	10.56	9.51	8.44
SN74ACT7808-25PAG	296-4471-ND	2K x 9 Strobed FIFO Memory	64-TQFP	10.56	9.51	8.44
SN74ACT7808-30FN	296-4472-5-ND	2K x 9 Strobed FIFO Memory	44-PLCC	15.35	14.33	13.30
SN74ACT7808-30PAG	296-4473-ND	2K x 9 Strobed FIFO Memory	64-TQFP	15.35	14.33	13.30
SN74ACT7808-40FN	296-4474-5-ND	2K x 9 Strobed FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT7808-40PAG	296-4475-ND	2K x 9 Strobed FIFO Memory	64-TQFP	11.55	10.40	9.22
SN74ACT7811-15FN	296-4476-5-ND	1K x 18 Clocked FIFO Memory	68-PLCC	10.56	9.51	8.44
SN74ACT7811-15PN	296-4477-ND	1K x 18 Clocked FIFO Memory	80-TQFP	10.56	9.51	8.44
SN74ACT7811-18FN	296-4478-5-ND	1K x 18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7811-18PN	296-4479-ND	1K x 18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7811-20FN	296-4480-5-ND	1K x 18 Clocked FIFO Memory	68-PLCC	13.74	12.38	10.98
SN74ACT7811-20PN	296-4481-ND	1K x 18 Clocked FIFO Memory	80-TQFP	13.74	12.38	10.98
SN74ACT7811-25FN	296-4482-5-ND	1K x 18 Clocked FIFO Memory	68-PLCC	10.62	9.60	8.52
SN74ACT7811-25PN	296-4483-ND	1K x 18 Clocked FIFO Memory	80-TQFP	10.66	9.60	8.52
SN74ACT7813-15DL	296-4484-5-ND	64 x 18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7813-20DL	296-4485-5-ND	64 x 18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7813-25DL	296-4486-5-ND	64 x 18 Clocked FIFO Memory	56-SOP	7.26	5.81	4.91
SN74ACT7813-40DL	296-4487-5-ND	64 x 18 Clocked FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7814-20DL	296-4488-5-ND	64 x 18 Strobed FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7814-40DLR	296-4489-1-ND	64 x 18 Strobed FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7814-40DLR	296-4489-2-ND	64 x 18 Strobed FIFO Memory	56-SOP	1072.50/250		
SN74ACT7881-15FN	296-4490-5-ND	1K x 18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7881-15PN	296-4491-ND	1K x 18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7881-20FN	296-4492-5-ND	1K x 18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7881-20PN	296-4493-ND	1K x 18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7881-30FN	296-4494-5-ND	1K x 18 Clocked FIFO Memory	68-PLCC	15.35	14.33	13.30
SN74ACT7881-30PN	296-4495-ND	1K x 18 Clocked FIFO Memory	80-TQFP	15.35	14.33	13.30
SN74ACT7882-15FN	296-4496-5-ND	2K x 18 Clocked FIFO Memory	68-PLCC	22.28	20.79	19.31
SN74ACT7882-15PN	296-4497-ND	2K x 18 Clocked FIFO Memory	80-LQFP	22.28	20.79	19.31
SN74ACT7882-20FN	296-4498-5-ND	2K x 18 Clocked FIFO Memory	68-PLCC	22.28	20.79	19.31
SN74ACT7882-20PN	296-4499-ND	2K x 18 Clocked FIFO Memory	80-LQFP	22.28	20.79	19.31
SN74ACT7882-30FN	296-4500-5-ND	2K x 18 Clocked FIFO Memory	68-PLCC	20.79	19.41	18.02
SN74ACT7882-30PN	296-4501-ND	2K x 18 Clocked FIFO Memory	80-LQFP	20.79	19.41	18.02
SN74ALS232BN	296-5039-5-ND	16 x 4 Asynchronous FIFO Memory	16-Dip	5.40	4.32	3.36
SN74ALVC3631-10PCB	296-5143-ND	512x36, 3.3V Sync. FIFO Memory	120-HLQFP	22.28	20.79	19.31
SN74ALVC3631-10PQ	296-5144-ND	512x36, 3.3V Sync. FIFO Memory	132-BQFP	22.28	20.79	19.31
SN74ALVC3631-15PCB	296-5145-ND	512x36, 3.3V Sync. FIFO Memory	120-HLQFP	17.82	16.64	15.45
SN74ALVC3631-15PQ	296-5146-ND	512x36, 3.3V Sync. FIFO Memory	132-BQFP	17.82	16.64	15.45
SN74ALVC3631-20PCB	296-5147-ND	512x36, 3.3V Sync. FIFO Memory	120-HLQFP	17.82	16.64	15.45
SN74ALVC3631-20PQ	296-5148-ND	512x36, 3.3V Sync. FIFO Memory	132-BQFP	17.82	16.64	15.45
SN74ALVC3641-10PCB	296-5149-ND	1024x36, 3.3V Sync. FIFO Memory	120-HLQFP	22.28	20.79	19.31
SN74ALVC3641-10PQ	296-5150-ND	1024x36, 3.3V Sync. FIFO Memory	132-BQFP	22.28	20.79	19.31
SN74ALVC3641-15PCB	296-5151-ND	1024x36, 3.3V Sync. FIFO Memory	120-HLQFP	22.28	20.79	19.31
SN74ALVC3641-15PQ	296-5152-ND	1024x36, 3.3V Sync. FIFO Memory	132-BQFP	22.28	20.79	19.31
SN74ALVC3641-20PCB	296-5153-ND	1024x36, 3.3V Sync. FIFO Memory	120-HLQFP	22.28	20.79	19.31
SN74ALVC3641-20PQ	296-5154-ND	1024x36, 3.3V Sync. FIFO Memory	132-BQFP	22.28	20.79	19.31
SN74ALVC3651-10PCB	296-5155-ND	2048x36, 3.3V Sync. FIFO Memory	120-HLQFP	29.70	27.72	25.74
SN74ALVC3651-10PQ	296-5156-ND	2048x36, 3.3V Sync. FIFO Memory	132-BQFP	29.70	27.72	25.74
SN74ALVC3651-15PCB	296-5157-ND	2048x36, 3.3V Sync. FIFO Memory	120-HLQFP	30.69	28.65	26.60
SN74ALVC3651-15PQ	296-5158-ND	2048x36, 3.3V Sync. FIFO Memory	132-BQFP	30.69	28.65	26.60
SN74ALVC3651-20PCB	296-5159-ND	2048x36, 3.3V Sync. FIFO Memory	120-HLQFP	24.75	23.10	21.45
SN74ALVC3651-20PQ	296-5160-ND	2048x36, 3.3V Sync. FIFO Memory	132-BQFP	24.75	23.10	21.45
SN74ALVC7803-20DL	296-5161-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7803-25DL	296-5162-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7803-40DL	296-5163-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	6.60	5.28	4.46
SN74ALVC7804-25DL	296-5164-5-ND	512x18, 3.3V Async. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7805-20DL	296-5165-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	14.96	13.47	11.95
SN74ALVC7805-25DL	296-5166-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7805-40DL	296-5167-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	5.94	4.76	4.01
SN74ALVC7806-25DL	296-5168-5-ND	256x18, 3.3V Async. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7813-20DL	296-5169-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7813-25DL	296-5170-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	7.26	5.81	4.91
SN74ALVC7813-40DL	296-5171-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	6.60	5.28	4.46
SN74ALVC7814-25DL	296-5172-5-ND	64x18, 3.3V Async. FIFO Memory	56-SSOP	7.26	5.81	4.91
SN74ALVC7814-40DL	296-5173-5-ND	64x18, 3.3V Async. FIFO Memory	56-SSOP	6.60	5.28	4.46
SN74V215-7PAG	296-9897-ND	512x18 Sync. FIFO Memory	64-TQFP	7.94	6.36	5.36
SN74V215-10PAG	296-9894-ND	512x18 Sync. FIFO Memory	64-TQFP	7.60	6.08	5.13
SN74V215-15PAG	296-9895-ND	512x18 Sync. FIFO Memory	64-TQFP	7.28	5.83	4.92
SN74V215-20PAG	296-9896-ND	512x18 Sync. FIFO Memory	64-TQFP	6.96	5.57	4.70
SN74V225-7PAG	296-9901-ND	1024x18 Sync. FIFO Memory	64-TQFP	8.90	7.12	6.01
SN74V225-10PAG	296-9898-ND	1024x18 Sync. FIFO Memory	64-TQFP	8.58	6.87	5.80
SN74V225-15PAG	296-9899-ND	1024x18 Sync. FIFO Memory	64-TQFP	8.26	6.61	5.58
SN74V225-20PAG	296-9900-ND	1024x18 Sync. FIFO Memory	64-TQFP	7.94	6.36	5.36
SN74V235-7PAG	296-9905-ND	2048x18 Sync. FIFO Memory	64-TQFP	8.36	7.53	6.68
SN74V235-10PAG	296-9902-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.72	7.78	6.57
SN74V235-15PAG	296-9903-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.40	7.52	6.35
SN74V235-20PAG	296-9904-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.08	7.27	6.13
SN74V245-7PAG	296-9909-ND	4096x18 Sync. FIFO Memory	64-TQFP	9.16	8.25	7.32
SN74V245-10PAG	296-9906-ND	4096x18 Sync. FIFO Memory	64-TQFP	8.90	8.01	7.11
SN74V245-15PAG	296-9907-ND	4096x18 Sync. FIFO Memory	64-TQFP	8.63	7.77	6.89
SN74V245-20PAG	296-9908-ND	4096x18 Sync. FIFO Memory	64-TQFP	8.36	7.53	6.68
SN74V263-10PZA	296-12477-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	20.04	18.71	17.37
SN74V263-15PZA	296-12478-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	19.43	18.13	16.84
SN74V263-6PZA	296-12479-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	21.24	19.83	18.41
SN74V263-7PZA	296-12480-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	20.64	19.27	17.89
SN74V273-10PZA	296-12481-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	21.86	20.40	18.95
SN74V273-15PZA	296-12482-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	21.24	19.83	18.41
SN74V273-6PZA	296-12483-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	23.07	21.54	20.00
SN74V273-7PZA	296-12484-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	22.47	20.98	19.48
SN74V283-10PZA	296-12485-ND	32768x18, 3.3V Sync. FIFO Memory	80-TQFP	23.69	22.11	20.53
SN74V283-15PZA	296-12486-ND	32768x18, 3.3V Sync. FIFO Memory	80-TQFP	23.07	21.54	20.00
SN74V283-6PZA	296-12487-ND	32768x18, 3.3V Sync. FIFO Memory	80-TQFP	24.90	23.24	21.58
SN74V283-7PZA	296-12488-ND	32768x18, 3.3V Sync. FIFO Memory	80-TQFP	24.29	22.67	21.05
SN74V293-10PZA	296-12489-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	25.50	23.80	22.10
SN74V293-15PZA	296-12490-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	24.90	23.24	21.58
SN74V293-6PZA	296-12491-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	26.72	24.94	23.16
SN74V293-7PZA	296-12492-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	26.12	24.38	22.64

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

Texas Instruments FILTERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC04ID	296-10230-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.32	1.86	1.45
TLC14CD	296-10239-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.05	1.64	1.23
TLC14ID	296-10240-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.18	1.74	1.31
UAF42AP	UAF42AP-ND	Universal Active Filter, -108db THD	14-Dip	11.31	10.19	9.04
UAF42AU	UAF42AU-ND	Universal Active Filter	16-SOIC	11.31	10.19	9.04

Texas Instruments INTEGRATORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ACF2101BU	ACF2101BU-ND	Low Noise, Dual, Switched Integrator	24-SOIC	21.09	19.69	18.28
IVC102U	IVC102U-ND	Precision Switched Integrator Transimpedance Amplifier	14-SOIC	8.18	6.55	5.53

Texas Instruments I/O EXPANDERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCF8574ADWR	296-13105-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	2.00	1.60	1.20
PCF8574ADWR	296-13105-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	2080.00/2,000		
PCF8574AN	296-13106-5-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-Dip	2.00	1.60	1.20
PCF8574APWR	296-13107-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	2.00	1.60	1.20
PCF8574APWR	296-13107-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	2080.00/2,000		
PCF8574DWR	296-13108-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	2.00	1.60	1.20
PCF8574DWR	296-13108-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	2080.00/2,000		
PCF8574N	296-13109-5-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-Dip	2.00	1.60	1.20
PCF8574PWR	296-13110-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	2.00	1.60	1.20
PCF8574PWR	296-13110-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	2080.00/2,000		

Texas Instruments LINEAR PERIPHERAL DRIVERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS3680D	296-9484-5-ND	Quad Telephone Relay Driver	14-SOP	1.05	.88	.70
DS3680N	296-9485-5-ND	Quad Telephone Relay Driver	14-Dip	1.05	.88	.70
SN754410NE	296-9911-5-ND	Quad Half-H Drivers	16-Dip	2.70	2.16	1.68
SN75451BD	296-9912-5-ND	Dual High Speed Peripheral Driver	8-SOP	.64	.48	.36
SN75451BP	296-1746-5-ND	Dual High Speed Peripheral Driver	8-Dip	.64	.48	.36
SN75452BP	296-1747-5-ND	Dual High Speed Peripheral Driver	8-Dip	.64	.48	.36
SN75453BD	296-9913-5-ND	Dual High Speed Peripheral Driver	8-SOP	.64	.48	.36
SN75453BDR	296-9913-1-ND	Dual High Speed Peripheral Driver	8-SOP	.64	.48	.36
SN75453BDR	296-9913-2-ND	Dual High Speed Peripheral Driver	8-SOP	520.00/2,500		
SN75453BP	296-1748-5-ND	Dual High Speed Peripheral Driver	8-Dip	.64	.48	.36
SN75454BP	296-9914-5-ND	Dual High Speed Peripheral Driver	8-Dip	.64	.48	.36
SN75462P	296-9915-5-ND	Dual Peripheral Driver	8-Dip	.84	.70	.56
SN75463P	296-9916-5-ND	Dual Peripheral Driver	8-Dip	1.20	1.00	.80
SN75468N	296-9917-5-ND	High Voltage Darlington Transistor Array	16-Dip	.87	.73	.58
SN75469N	296-9918-5-ND	High Voltage Darlington Transistor Array	16-Dip	1.05	.88	.70
SN75471P	296-9919-5-ND	Dual Peripheral Driver	8-Dip	.90	.75	.60
SN75477P	296-9920-5-ND	Dual Peripheral Driver	8-Dip	.84	.70	.56
SN75472P	296-1749-5-ND	Dual Peripheral Driver	8-Dip	.72	.54	.41
TLC5904PZP	296-2378-ND	Constant Current LED Driver	100-PQFP	8.48	6.79	5.73
TLC5905PAP	296-2379-ND	Constant Current LED Driver	64-PQFP	6.92	5.54	4.68
TLC5911PZP	296-2381-ND	Constant Current LED Driver	100-PQFP	10.90	9.81	8.70
TLC5920DL	296-10348-5-ND	LED Driver with Shift Register	48-SSOP	5.18	4.15	3.50
TLC5921DAP	296-10349-5-ND	LED Driver with Shift Register	32-HTSSOP	3.47	2.78	2.16
TLED2043IPWR	296-13991-1-ND	4-Channel White LED Driver *NEW!*	20-TSSOP	1.38	1.10	.83
TLED2043IPWR	296-13991-2-ND	4-Channel White LED Driver *NEW!*	20-TSSOP	1430.00/2,000		
TPIC2810D	296-13746-5-ND	8-Bit, LED Driver with I^{2}C Interface	16-SOIC	2.15	1.72	1.29
ULN2003AD	296-1368-5-ND	Darlington Transistor Array	16-SOIC	.50	.40	.30
ULN2003ADR	296-1368-1-ND	Darlington Transistor Array	16-SOIC	.50	.40	.30
ULN2003ADR	296-1368-2-ND	Darlington Transistor Array	16-SOIC	337.50/2,500		
ULN2003AN	296-1979-5-ND	Darlington Transistor Array	16-Dip	.50	.40	.30
ULN2004AD	296-12965-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.50	.40	.30
ULN2004AN	296-1980-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-Dip	.50	.40	.30
ULQ2003ADR	296-11570-1-ND	Darlington Transistor Array	16-SOIC	1.08	.90	.72
ULQ2003ADR	296-11570-2-ND	Darlington Transistor Array	16-SOIC	1170.00/2,500		
ULQ2003ATDQ1	296-14394-5-ND	Darlington Transistor Array *NEW!*	16-SOIC	2.13	1.70	1.28
ULQ2003ATDRQ1	296-14395-1-ND	Darlington Transistor Array *NEW!*	16-SOIC	2.25	1.80	1.35
ULQ2003ATDRQ1	296-14395-2-ND	Darlington Transistor Array *NEW!*	16-SOIC	2880.00/2,500		
ULQ2004ADR	296-13535-1-ND	High Voltage High Current Darlington Transistor Array	16-SOIC	1.08	.90	.72
ULQ2004ADR	296-13535-2-ND	High Voltage High Current Darlington Transistor Array	16-SOIC	1170.00/2,500		

Texas Instruments MULTIPLEXERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Analog Multiplexers/Multipliers				
MPC506AP	MPC506AP-ND	Single Ended 16-Channel/Differential 8-Channel CMOS	28-Dip	10.24	8.20	6.92
MPC506AU	MPC506AU-ND	Single Ended 16-Channel/Differential 8-Channel CMOS	28-SOIC	8.53	7.68	6.81
MPC507AP	MPC507AP-ND	Single Ended 16-Channel/Differential 8-Channel CMOS	28-Dip	10.24	8.20	6.92
MPC507AU	MPC507AU-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-SOIC	8.53	7.68	6.81
MPC508AP	MPC508AP-ND	8-Ch./4-Ch. CMOS Analog Multiplexer	16-Dip	5.67	4.54	3.53
MPC508AU	MPC508AU-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	16-SOIC	5.04	4.04	3.41
MPC509AP	MPC509AP-ND	Single Ended 8-Ch./Diff. 4-Ch. CMOS	16-Dip	5.67	4.54	3.53
MPC509AU	MPC509AU-ND	Single Ended 8-Ch./Diff. 4-Ch. CMOS	16-SOIC	5.52	4.42	3.73
MPY534KD	MPY534KD-ND	Precision Analog Multiplier	14-CDip	49.88	42.74	31.98
MPY634KP	MPY634KP-ND	Wide-Bandwidth Precision Analog Multiplier	14-Dip	17.66	15.90	14.10
MPY634KU	MPY634KU-ND	Wide-Bandwidth Precision Analog Multiplier	16-SOIC	17.81	16.62	15.44

Texas Instruments OPTICAL SENSORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPT101P-ND	OPT101P-ND	Monolithic Photodiode Transimpedance Amplifier	8-Dip	5.51	4.41	3.43
OPT101P-J	OPT101P-J-ND	Monolithic Photodiode Transimpedance Amplifier	8-SMD	5.51	4.41	3.43
OPT301M-ND	OPT301M-ND	Integrated Photodiode and Amplifier	TO-99-8	15.26	14.24	13.23

Texas Instruments POWER CONTROL / MANAGEMENT PRODUCTS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		CCFL Drivers				
UCC2972N	296-2256-5-ND	CCFL Driver Controller	8-Dip	5.68	4.55	3.84
UCC2973PW	296-13533-5-ND	BiCMOS CCFL Driver Controller	8-TSSOP	4.55	3.64	2.83
UCC3972N	296-6764-5-ND	BiCMOS CCFL Driver Controller	8-Dip	3.49	2.79	2.17
UCC3972PW	296-2257-5-ND	CCFL Driver Controller	8-TSSOP	3.49	2.79	2.17
UCC3973PW	296-6765-5-ND	BiCMOS CCFL Driver Controller	8-SOP	3.49	2.79	2.17
		Hot Plug				
HPC3130APBK	296-9510-ND	Hot Plug Controller	128-LQFP	15.54	14.00	12.41
HPC3130APEM	296-9511-ND	Hot Plug Controller	120-QFP	15.54	14.00	12.41
HPC3130APGE	296-9512-ND	Hot Plug Controller	144-LQFP	15.54	14.00	12.41
HPC3130PBK	296-9513-ND	Hot Plug Controller	128-LQFP	15.54	14.00	12.41
HPC3130PBM	296-9514-ND	Hot Plug Controller	120-QFP	15.54	14.00	12.41
		Hot-Swap				
TPS2300IPW	296-2319-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.22	2.58	2.01
TPS2301IPW	296-2320-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.22	2.58	2.01
TPS2306DW	296-11642-5-ND	Dual Hot-Swap Power Controller	16-SOP	3.22	2.58	2.01
TPS2310IPW	296-2321-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.22	2.58	2.01
TPS2311IPW	296-2322-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.22	2.58	2.01
TPS2320ID	296-6766-5-ND	Dual Hot-Swap Power Controller	16-SOIC	2.68	2.15	1.67
TPS2320IPW	296-2323-5-ND	Dual Hot-Swap Power Controller	16-TSSOP	2.68	2.15	1.67
TPS2321ID	296-6767-5-ND	Dual Hot-Swap Power Controller	16-SOP	2.68	2.15	1.67
TPS2321IPW	296-2324-5-ND	Dual Hot-Swap Power Controller	16-TSSOP	2.68	2.15	1.67
TPS2330ID	296-6768-5-ND	Single Hot-Swap Power Controller	14-SOIC	2.45	1.97	1.53
TPS2330IPW	296-2325-5-ND	Hot-Swap Power Controller	14-TSSOP	2.45	1.97	1.53
TPS2331ID	296-6769-5-ND	Single Hot-Swap Power Controller	14-SOIC	2.45	1.97	1.53
TPS2331IPW	296-2326-5-ND	Hot-Swap Power Controller	14-TSSOP	2.45	1.97	1.53
TPS2345PW	296-12714-5-ND	Hot-Swap Power Manager	24-TSSOP	6.66	5.33	4.50
TPS2346PW	296-12956-5-ND	Optical Network Hot-Swap Power Manager	24-TSSOP	6.66	5.33	4.50
TPS2390DGK	296-13511-5-ND	Simple Negative 48V Hot-Swap Controller	8-VSSOP	2.45	1.97	1.53
TPS2391DGK	296-13512-5-ND	Simple Negative 48V Hot-Swap Controller	8-VSSOP	2.45	1.97	1.53
TPS2392PW	296-13668-5-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	4.16	3.33	2.59
TPS2393PW	296-13669-5-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	4.16	3.33	2.59
UC2914DW	296-12245-5-ND	5V to 35V Hot-Swap Power Manager	18-SOIC	8.84	7.08	5.97
UC2914N	296-2502-5-ND	5V to 35V Hot-Swap Power Manager	18-Dip	8.84	7.08	5.97
UC3914DW	296-11347-5-ND	5V to 35V Hot-Swap Power Manager	18-SOIC	7.74	6.20	5.23
UC3914N	296-2327-5-ND	5V to 35V Hot-Swap Power Manager	18-Dip	7.74	6.20	5.23
UCC391PW	296-6778-5-ND	5-Bit Programmable Output Precision Voltage Reference	8-SOP	2.61	2.09	1.63
UCC2913D	296-2328-5-ND	Neg. V. Hot-Swap Power Manager	8-SOIC	3.22	2.58	2.01
UCC2913N	296-12247-5-ND	Neg. V. Hot-Swap Power Manager	8-Dip	3.22	2.58	2.01
UCC2915DP	296-2329-5-ND	15V Hot-Swap Programmable Power Manager	16-SOIC	7.46	5.97	5.04
UCC2917D	296-2330-5-ND	Pos. Floating Hot-Swap Power Manager	16-SOIC	4.32	3.46	2.69
UCC2917N	296-12249-5-ND	Pos. Floating Hot-Swap Power Manager	16-Dip	4.32	3.46	2.69
UCC2918DP/81510	296-11420-5-ND	Low On-Resistance Hot-Swap Power Manager	16-SOP	6.92	5.54	4.68
UCC2919D	296-2331-5-ND	3V to 8V Hot-Swap Power Manager	16-SOIC	5.16	4.13	3.49
UCC2919PW	296-12251-5-ND	3V to 8V Hot-Swap Power Manager	16-TSSOP	5.16	4.13	3.49
UCC2921D	296-2332-5-ND	Latching Negative Floating Hot-Swap Power Manager	8-SOP	3.69	2.96	2.30
UCC2921N	296-12252-5-ND	Latching Negative Floating Hot-Swap Power Manager	8-Dip	3.69	2.96	2.30
UCC3912DP	296-2333-5-ND	Programmable Hot-Swap Power Manager	16-SOP	4.59	3.68	2.86
UCC3912PWP	296-12031-5-ND	Programmable Hot-Swap Power Manager	24-HTSSOP	4.59	3.68	2.86
UCC3913D	296-2335-5-ND	Negative Volt. Hot-Swap Power Manager	8-SOIC	3.06	2.45	1.91
UCC3913N	296-6770-5-ND	Negative Volt. Hot-Swap Power Manager	8-Dip	3.06	2.45	1.91
UCC3915DP	296-2336-5-ND	15V Programmable Hot-Swap Power Manager	16-SOP	5.13	4.11	3.20
UCC3915N	296-6771-5-ND	7-15V Programmable Hot-Swap Power Manager	16-Dip	5.13	4.11	3.20
UCC3915PWP	296-6772-5-ND	7-15V Programmable Hot-Swap Power Manager	24-HTSSOP	5.13	4.11	3.20
UCC39161DP	296-6773-5-ND	4-6V Low Current High-Side Power Manager	8-SOP	5.36	4.29	3.34
UCC3917D	296-2337-5-ND	Positive Floating Hot-Swap Power Manager	16-SOIC	3.74	2.99	2.33
UCC3917N	296-6774-5-ND	Positive Floating Hot-Swap Power Manager	16-Dip	3.74	2.99	2.33
UCC3918DP	296-2338-5-ND	Low On-Resistance Hot-Swap Power Manager	16-SOP	4.70	3.77	2.93
UCC3918N	296-6775-5-ND	Low On-Resistance Hot-Swap Power Manager	16-Dip	5.62	4.50	3.80

(Continued)

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TEXAS INSTRUMENTS POWER CONTROL/MGMT. PRODUCTS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC3919D	296-2339-5-ND	3V to 8V Hot-Swap Power Manager	16-SOIC	4.70	3.77	2.93
UCC3919PW	296-6777-5-ND	Single Hot-Swap Power Controller	16-Dip	4.70	3.77	2.93
UCC3921D	296-2340-5-ND	Neg. Floating Hot-Swap Power Manager	8-SOP	3.22	2.58	2.01
UCC3921N	296-6779-5-ND	Negative Latchable Floating Hot-Swap Power Manager	8-Dip	3.22	2.58	2.01
UCC39151DPTR	296-11994-1-ND	7-15V Programmable Hot-Swap Power Manager	16-SOIC	9.88	7.91	6.67
UCC39151DPTR	296-11994-2-ND	7-15V Programmable Hot-Swap Power Manager	16-SOIC	15315.00/2,500		
UCC39151PWPTR	296-11995-1-ND	7-15V Programmable Hot-Swap Power Manager	24-HTSSOP	9.88	7.91	6.67
UCC39151PWPTR	296-11995-2-ND	7-15V Programmable Hot-Swap Power Manager	24-HTSSOP	12350.00/2,000		

Peripheral

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UC563DP	296-11362-5-ND	32-Line VME Bus Bias Generator	8-SOIC	4.46	3.57	2.78
UC5601QP	296-11357-5-ND	18-Line 5V SE Terminator for SCSI and Fast SCSI	28-PLCC	7.60	6.08	5.13
UC5603DP	296-11359-5-ND	9-Line 5V SE Terminator for SCSI and Fast SCSI	16-SOIC	4.77	3.82	2.97
UCC3916DP	296-2255-5-ND	SCSI Termpower Manager	8-SOP	3.42	2.74	2.13
UCC5510MWP	296-6730-5-ND	9-Line SCSI Multi Terminator	36-SOP	3.76	3.01	2.34
UCC5606DP	296-6731-5-ND	9-Line 3-5V SCSI SE Terminator	16-SOP	2.79	2.24	1.74
UCC5606PWP	296-6732-5-ND	9-Line 3-5V SCSI SE Terminator	16-HTSSOP	2.79	2.24	1.74
UCC5614DP	296-6735-5-ND	9-Line 3-5V SCSI SE Terminator	16-SOP	2.79	2.24	1.74
UCC5614PWP	296-6736-5-ND	9-Line 3-5V SCSI SE Terminator	24-HTSSOP	2.79	2.24	1.74
UCC5617DWP	296-6737-5-ND	18-Line 3-5V SCSI SE Terminator	28-SOP	2.79	2.24	1.74
UCC5618DWP	296-6738-5-ND	18-Line 3-5V SCSI SE Terminator	28-SOP	4.64	3.71	2.89
UCC5618QP	296-6739-5-ND	18-Line 3-5V SCSI SE Terminator	28-SOP	5.13	4.11	3.20
UCC5619MWP	296-6740-5-ND	27-Line 5V SE Terminator For Fast/Ultra SCSI	36-SOP	5.46	4.37	3.69
UCC5620MWP	296-6743-5-ND	27-Line 5V SE Terminator For Fast/Ultra SCSI	48-SOP	5.46	4.37	3.69
UCC5621MWP	296-6744-5-ND	27-Line 5V SE Terminator For Fast/Ultra SCSI	44-SOP	5.46	4.37	3.69
UCC5622MWP	296-6746-5-ND	27-Line 5V SE Terminator For Fast/Ultra SCSI	44-SOP	5.46	4.37	3.69
UCC5628FQP	296-6747-ND	14-Line 3-5V SCSI Multi Terminator	48-QFP	7.48	5.99	5.05
UCC5629FQP	296-6748-ND	14-Line 3-5V SCSI Multi Terminator	48-QFP	7.70	6.16	5.20
UCC5630AFQP	296-6749-ND	9-Line 3-5V SCSI Multi Terminator	48-QFP	5.15	4.13	3.21
UCC5630AMWP	296-6750-5-ND	9-Line 3-5V SCSI Multi Terminator	36-SOP	3.96	3.17	2.47
UCC5631AFQP	296-6751-ND	9-Line 3-5V SCSI Multi Terminator	48-QFP	5.15	4.13	3.21
UCC5631AMWP	296-6752-5-ND	9-Line 3-5V SCSI Multi Terminator	36-SOP	3.96	3.17	2.47
UCC5638FQP	296-6753-ND	15-Line 3-5V SCSI Multi Terminator	48-QFP	7.48	5.99	5.05
UCC5639FQP	296-6754-ND	15-Line 3-5V SCSI Multi Terminator	48-QFP	7.48	5.99	5.05
UCC5640PW24	296-6755-5-ND	9-Line 3-5V LVD SCSI Terminator	24-SOP	3.76	3.01	2.34
UCC5640PW28	296-6756-5-ND	9-Line 3-5V LVD SCSI Terminator	28-SOP	3.76	3.01	2.34
UCC5641PW24	296-6757-5-ND	9-Line 3-5V LVD SCSI Terminator	24-SOP	8.28	6.63	5.59
UCC5641PW28	296-6758-5-ND	9-Line 3-5V LVD SCSI Terminator	248-SOP	8.28	6.63	5.59
UCC5670MWP	296-12964-5-ND	9-Line Multimode SCSI Terminator	36-SSOP	5.02	4.02	3.39
UCC5672MWP	296-6760-5-ND	9-Line 3-5V SCSI Multi Terminator	36-SOP	3.96	3.17	2.47
UCC5672PWP	296-6761-5-ND	9-Line 3-5V SCSI Multi Terminator	28-HTSSOP	3.96	3.17	2.47
UCC5673MWP	296-6762-5-ND	9-Line 3-5V SCSI Multi Terminator	36-SOP	3.96	3.17	2.47
UCC5673PWP	296-6763-5-ND	9-Line 3-5V SCSI Multi Terminator	28-HTSSOP	3.96	3.17	2.47
UCC5680PW24	296-11565-5-ND	9-Line 3-5V LVD Terminator for SCSI - Ultra3 SCSI	24-TSSOP	3.96	3.17	2.47
UCC5680PW28	296-11566-5-ND	9-Line 3-5V LVD Terminator for SCSI - Ultra3 SCSI	28-TSSOP	3.96	3.17	2.47
UCC5686PM	296-11567-ND	27-Line 3-5V LVD Terminator for Wide Ultra2/Ultra3 SCSI	64-QFP	9.68	8.72	7.73
UCC5687PM	296-11568-ND	27-Line 3-5V LVD Terminator for Wide Ultra2/Ultra3 SCSI	64-QFP	9.68	8.72	7.73
UCC5696PN	296-14234-5-ND	27-Line LVD SCSI Terminator *NEW!*	80-LQFP	12.40	11.16	9.90

Power + Array

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPIC44H01DA	296-1952-5-ND	4-Channel High-Side Driver	32-TSSOP	3.58	2.87	2.23

Power + Logic

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPIC6A259DW	296-9004-5-ND	Power 8-Bit Addressable Latch	24-SOP	2.93	2.34	1.82
TPIC6A259NE	296-9005-5-ND	Power 8-Bit Addressable Latch	20-Dip	3.85	3.08	2.40
TPIC6A595DW	296-9006-5-ND	Power 8-Bit Shift Register	24-SOP	2.59	2.07	1.61
TPIC6A595NE	296-9007-5-ND	Power 8-Bit Shift Register	20-Dip	2.63	2.11	1.64
TPIC6A596DW	296-9008-5-ND	Power 8-Bit Shift Register	24-SOIC	2.59	2.07	1.61
TPIC6A596NE	296-9009-5-ND	Power 8-Bit Shift Register	20-Dip	2.63	2.11	1.64
TPIC6B259DW	296-9010-5-ND	Power 8-Bit Addressable Latch	20-SOP	1.65	1.32	.99
TPIC6B259N	296-9011-5-ND	Power 8-Bit Addressable Latch	20-Dip	1.63	1.30	.98
TPIC6B273DW	296-1350-5-ND	Power Octal D-Type Switch	20-SOIC	1.65	1.32	.99
TPIC6B273DWR	296-1350-1-ND	Power Octal D-Type Latch	20-SOIC	1.65	1.32	.99
TPIC6B273DWR	296-1350-2-ND	Power Octal D-Type Latch	20-SOIC	1716.00/2,000		
TPIC6B273N	296-9012-5-ND	Power Octal D-Type Latch	20-Dip	1.65	1.32	.99
TPIC6B595DW	296-1351-5-ND	Power 8-Bit Shift Register	20-SOIC	1.26	1.05	.84
TPIC6B595DWR	296-1351-1-ND	Power 8-Bit Shift Register	20-SOIC	1.32	1.10	.88
TPIC6B595DWR	296-1351-2-ND	Power 8-Bit Shift Register	20-SOIC	1170.00/2,000		
TPIC6B595N	296-1956-5-ND	Power 8-Bit Shift Register	20-Dip	1.32	1.10	.88
TPIC6B596DW	296-9013-5-ND	Power 8-Bit Shift Register	20-SOP	1.26	1.05	.84
TPIC6C595D	296-2019-5-ND	Power 8-Bit Shift Register	16-SOIC	.99	.83	.66
TPIC6C595N	296-2020-5-ND	Power 8-Bit Shift Register	16-Dip	1.05	.88	.70
TPIC6C596D	296-9014-5-ND	Power 8-Bit Shift Register	16-SOP	.99	.83	.66
TPIC6C596N	296-9015-5-ND	Power 8-Bit Shift Register	16-Dip	1.05	.88	.70
TPIC43T01DA	296-10866-5-ND	Three-Phase Brushless Motor RPM Controller	38-TSSOP	4.73	3.78	2.94
TPIC44L01DB	296-10867-5-ND	4-Channel Serial/Parallel Low-Side Pre-FET Driver	24-SSOP	1.90	1.52	1.14
TPIC44L02DB	296-10868-5-ND	4-Channel Serial/Parallel Low-Side Pre-FET Driver	24-SSOP	1.90	1.52	1.14
TPIC46L01DB	296-10869-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.38	1.90	1.43
TPIC46L02DB	296-10870-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.38	1.90	1.43
TPIC46L03DB	296-10871-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.38	1.90	1.43
TPIC0107BDWP	296-10857-5-ND	PWM Control Intelligent H-Bridge	20-HSOP	4.28	3.42	2.66
TPIC0108BDWP	296-10858-5-ND	PWM Control Intelligent H-Bridge	20-HSOP	4.84	3.87	3.01
TPIC0108BDWPR	296-10858-1-ND	PWM Control Intelligent H-Bridge	20-HSOP	4.84	3.87	3.01
TPIC0108BDWPR	296-10858-2-ND	PWM Control Intelligent H-Bridge	20-HSOP	5482.00/2,000		
TPIC2101N	296-10861-5-ND	Single Phase Low-Side Pre-FET Driver	14-Dip	2.27	1.82	1.42
TPIC2603DW	296-10863-5-ND	6-Ch. Serial Interface Low-Side Driver	24-SOP	4.97	3.98	3.10
TPIC2603NE	296-10864-5-ND	6-Ch. Serial Interface Low-Side Driver	20-Dip	4.97	3.98	3.10
TPIC2701N	296-10865-5-ND	7-Ch. Common-Source Driver	16-Dip	4.28	3.42	2.66
TPIC6259DW	296-9000-5-ND	Power 8-Bit Addressable Latch	20-SOP	2.70	2.16	1.68
TPIC6259N	296-9001-5-ND	Power 8-Bit Addressable Latch	20-Dip	2.70	2.16	1.68
TPIC6273DW	296-9002-5-ND	Power Octal D-Type Latch	20-SOP	2.70	2.16	1.68
TPIC6273N	296-1953-5-ND	Power Octal D-Type Latch	20-Dip	2.70	2.16	1.68
TPIC6595DW	296-1349-5-ND	Power 8-Bit Shift Register	20-SOIC	2.39	1.91	1.49
TPIC6595DWR	296-1349-1-ND	Power 8-Bit Shift Register	20-SOIC	2.43	1.95	1.52
TPIC6595DWR	296-1349-2-ND	Power 8-Bit Shift Register	20-SOIC	2754.00/2,000		
TPIC6595N	296-1954-5-ND	Power 8-Bit Shift Register	20-Dip	2.43	1.95	1.52
TPIC6596DW	296-9003-5-ND	Power 8-Bit Shift Register	20-SOP	2.39	1.91	1.49

Special Functions

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UC2950T	296-13022-5-ND	Half-Bridge Bipolar Switch	TO-220-5	5.08	4.07	3.43
UC3717AN	296-11258-5-ND	Stepper Motor Drive Circuit	16-Dip	5.84	4.68	3.95
UC3770AN	296-11259-5-ND	HP Stepper Motor Drive Circuit	16-Dip	4.91	3.93	3.06
UC3770BN	296-11260-5-ND	HP Stepper Motor Drive Circuit	16-Dip	4.95	3.96	3.08
UC3871DW	296-11326-5-ND	Resonant Fluorescent Lamp Driver	18-SOIC	6.32	5.06	4.27
UC3871N	296-11327-5-ND	Resonant Fluorescent Lamp Driver	18-Dip	6.32	5.06	4.27
UC3872DW	296-11328-5-ND	Resonant Lamp Ballast Controller	16-SOIC	5.20	4.16	3.24
UC3872M	296-11329-5-ND	Resonant Lamp Ballast Controller	16-SSOP	5.20	4.16	3.24
UC3872N	296-11330-5-ND	Resonant Lamp Ballast Controller	20-Dip	5.20	4.16	3.24
UCC2305DW	296-13023-5-ND	HID Lamp Controller	28-SOIC	8.86	7.98	7.08
UCC2305N	296-13633-5-ND	HID Lamp Controller	28-Dip	10.63	9.57	8.49
UCC3974PW	296-12405-5-ND	Dual Cold Cathode Fluorescent Lamp Controller	16-TSSOP	4.28	3.42	2.66

TEXAS INSTRUMENTS POWER SUPPLY PRODUCTS

Audio Differential Line Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DRV134PA	DRV134PA-ND	Audio Balanced Line Driver with Differential Output	8-Dip	3.89	3.12	2.43
DRV134UA	DRV134UA-ND	Audio Balanced Line Driver with Differential Output	16-SOL	3.89	3.12	2.43
DRV135UA	DRV135UA-ND	Audio Balanced Line Driver with Differential Output	8-SOIC	3.89	3.12	2.43

Battery Management

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ2000PN-B5	296-9313-5-ND	Multichemistry Charge Management	8-Dip	3.40	2.72	2.12
BQ2000PW	296-12359-5-ND	Multichemistry Switchmode Charge Management	8-TSSOP	3.40	2.72	2.12
BQ2000SN-B5	296-9314-5-ND	Multichemistry Charge Management	8-SOP	3.40	2.72	2.12
BQ2000TPN-B5	296-9315-5-ND	Multichemistry Charge Management	8-Dip	3.40	2.72	2.12
BQ2000TPW	296-12360-5-ND	Multichemistry Switchmode Charge Management	8-TSSOP	3.40	2.72	2.12
BQ2000TSN-B5	296-9316-5-ND	Multichemistry Charge Management	8-SOP	3.40	2.72	2.12
BQ2002CPN	296-9317-5-ND	Fast Charge Controller	8-Dip	2.35	1.88	1.41
BQ2002CSN	296-9318-5-ND	Fast Charge Controller	8-SOP	2.35	1.88	1.41
BQ2002DSN	296-9319-5-ND	Fast Charge Controller	8-SOP	2.35	1.88	1.41
BQ2002EPN	296-9320-5-ND	Fast Charge Controller	8-Dip	2.35	1.88	1.41
BQ2002ESN	296-9321-5-ND	Fast Charge Controller	8-SOP	2.35	1.88	1.41
BQ2002FPN	296-9322-5-ND	Fast Charge Controller	8-Dip	2.35	1.88	1.41
BQ2002FSN	296-9323-5-ND	Fast Charge Controller	8-SOP	2.35	1.88	1.41
BQ2002GPN	296-9324-5-ND	Fast Charge Controller	8-Dip	2.35	1.88	1.41
BQ2002GSN	296-9325-5-ND	Fast Charge Controller	8-SOP	2.35	1.88	1.41
BQ2002PN	296-9326-5-ND	Fast Charge Controller	8-Dip	2.35	1.88	1.41
BQ2002SN	296-9327-5-ND	Fast Charge Controller	8-SOP	2.35	1.88	1.41
BQ2002TPN	296-9328-5-ND	Fast Charge Controller	8-Dip	2.35	1.88	1.41
BQ2002TSN	296-9329-5-ND	Fast Charge Controller	8-SOP	2.35	1.88	1.41
BQ2003PN	296-9330-5-ND	Fast Charge Controller	16-Dip	4.25	3.41	2.65
BQ2003S	296-9331-5-ND	Fast Charge Controller	16-SOP	4.25	3.41	2.65
BQ2004EPN	296-9332-5-ND	Fast Charge Controller	16-Dip	4.25	3.41	2.65
BQ2004ESN	296-9333-5-ND	Fast Charge Controller	16-SOP	4.25	3.41	2.65
BQ2004HPN	296-9334-5-ND	Fast Charge Controller	16-Dip	4.25	3.41	2.65
BQ2004HSN	296-9335-5-ND	Fast Charge Controller	16-SOP	4.25	3.41	2.65
BQ2004PN	296-9336-5-ND	Fast Charge Controller	16-Dip	4.25	3.41	2.65
BQ2004SN	296-9337-5-ND	Fast Charge Controller	16-SOP	4.25	3.41	2.65
BQ2005S	296-9338-5-ND	Dual Fast Charge Controller	20-SOP	4.25	3.41	2.65
BQ2010SN-D107	296-2218-5-ND	Battery Gas Gauge	16-SOIC	6.92	5.54	4.68
BQ2011SN-D118	296-9340-5-ND	Battery Gas Gauge	16-SOP	6.72	5.38	4.54
BQ2012SN-D107	296-9341-5-ND	Battery Gas Gauge	16-SOP	6.92	5.54	4.68
BQ2013HSN-A514	296-9343-5-ND	Battery Gas Gauge	16-SOP	6.64	5.32	4.49
BQ2014HSN	296-9345-5-ND	Battery Gas Gauge	16-SOP	6.64	5.32	4.49
BQ2014SN-D120	296-2220-5-ND	Battery Gas Gauge	16-SOIC	6.92	5.54	4.68
BQ2018SN-E1	296-2221-5-ND	Battery Power Monitor	8-SOIC	3.78	3.03	2.36
BQ2018TS-E1	296-2222-5-ND	Battery Power Monitor	8-TSSOP	3.78	3.03	2.36
BQ2019PW	296-9348-5-ND	Advanced Battery Monitoring	8-TSSOP	3.89	3.12	2.43
BQ2023PW	296-11861-5-ND	Battery Power Monitor	8-TSSOP	4.01	3.21	2.50
BQ2031PN-A5	296-9349-5-ND	Lead Acid Fast Charge	16-Dip	5.06	4.05	3.42
BQ2031SN-A5	296-9350-5-ND	Lead Acid Fast Charge	16-SOP	5.06	4.05	3.42
BQ2040SN-C408	296-2223-5-ND	Battery Gas Gauge	16-SOIC	6.92	5.54	4.68
BQ2040SN-D111	296-13773-5-ND	Gas Gauge IC with SMBus Interface	16-SOIC	6.92	5.54	4.68
BQ2050HSN-A508	296-9353-5-ND	Lithium-Ion Gas Gauge	16-SOP	6.64	5.32	4.49
BQ2050SN-D119	296-2225-5-ND	Lithium-Ion Power Gauge	16-SOIC	6.92	5.54	4.68
BQ2052SN-A515	296-9355-5-ND	Primary Lithium Gas Gauge	16-SOP	7.22	5.78	4.88
BQ2054PN	296-9356-5-ND	Lithium-Ion Fast Charge	16-Dip	4.68	3.75	2.92
BQ2054SN	296-9357-5-ND	Lithium-Ion Fast Charge	16-SOP	4.68	3.75	2.92
BQ2057CDGK	296-11991-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.70	2.16	1.68
BQ2057CDGKR	296-11991-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.70	2.16	1.68
BQ2057CDGKR	296-11991-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	3780.00/2,500		
BQ2057CSN	296-9358-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-SOP	2.70	2.16	1.68
BQ2057CTS	296-9359-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-TSSOP	2.70	2.16	1.68
BQ2057DGK	296-11992-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.70	2.16	1.68
BQ2057DGKR	296-11992-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.70	2.16	1.68

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ2057DGKR	296-11992-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	3780.00/2,500		
BQ2057SN	296-9360-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOP	2.70	2.16	1.68
BQ2057TS	296-9361-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	2.70	2.16	1.68
BQ2057TSN	296-9362-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOP	2.70	2.16	1.68
BQ2057TTS	296-9363-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	2.70	2.16	1.68
BQ2057WSN	296-9364-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOP	2.70	2.16	1.68
BQ2057WTS	296-9365-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	2.70	2.16	1.68
BQ2060SS-E411	296-12268-5-ND	Multi-Chemistry SBS v1.1 Gas Gauge	28-SSOP	7.02	5.62	4.74
BQ2063DBQ	296-12199-5-ND	Battery Gas Gauge	28-SSOP	7.02	5.62	4.74
BQ2083DBT	296-13030-5-ND	SBS Compliant Gas Gauge for BQ29311	38-TSSOP	8.08	6.47	5.46
BQ2085DBT	296-14071-5-ND	SBS-Compliant Battery Gas Gauge *NEW!*	38-TSSOP	8.26	6.61	5.58
BQ2201PN	296-9369-5-ND	SRAM Nonvolatile Controller IC	8-Dip	3.74	2.99	2.33
BQ2201SN	296-9370-5-ND	SRAM Nonvolatile Controller IC	8-SOP	3.74	2.99	2.33
BQ2954PN	296-9387-5-ND	Lithium-Ion Fast Charger	16-Dip	5.00	4.00	3.11
BQ2954SN	296-9388-5-ND	Lithium-Ion Fast Charger	16-SOP	5.00	4.00	3.11
BQ4010MA-85	296-9389-5-ND	8Kx8 Nonvolatile SRAM, 85nS	28-Dip	9.53	8.58	7.61
BQ4010YMA-70	296-9390-5-ND	8Kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	9.53	8.58	7.61
BQ4011MA-100	296-9391-5-ND	32Kx8 Nonvolatile SRAM, 100nS	28-Dip	11.00	9.90	8.78
BQ4011YMA-70	296-9393-5-ND	32Kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	11.00	9.90	8.78
BQ4011YMA-100	296-9392-5-ND	32Kx8 Nonvolatile SRAM, 10%, 100nS	28-Dip	11.00	9.90	8.78
BQ4013YMA-70	296-9394-5-ND	128Kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	13.93	12.54	11.12
BQ4013YMA-70N	296-9395-5-ND	128Kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	13.93	12.54	11.12
BQ4013YMA-85	296-9396-5-ND	128Kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	13.93	12.54	11.12
BQ4014MB-85	296-9397-5-ND	256Kx8 Nonvolatile SRAM, 85nS	32-Dip	26.40	24.64	22.88
BQ4014YMB-85	296-9398-5-ND	256Kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	26.40	24.64	22.88
BQ4015MA-70	296-9399-5-ND	512Kx8 Nonvolatile SRAM, 70nS	32-Dip	29.04	27.11	25.17
BQ4015YMA-70	296-9400-5-ND	512Kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	29.04	27.11	25.17
BQ4015YMA-85	296-9401-5-ND	512Kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	29.04	27.11	25.17
BQ4016MC-70	296-9402-5-ND	1024Kx8 Nonvolatile SRAM, 70nS	36-Dip	34.32	32.04	29.75
BQ4016YMC-70	296-9403-5-ND	1024Kx8 Nonvolatile SRAM, 10%, 70nS	36-Dip	34.32	32.04	29.75
BQ4017MC-70	296-9404-5-ND	2048Kx8 Nonvolatile SRAM, 70nS	36-Dip	66.00	61.60	57.20
BQ24001PWP	296-9378-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	3.62	2.90	2.26
BQ24001RGWR	296-12968-1-ND	Single Cell Li-Ion Charge Management	20-QFN	3.62	2.90	2.26
BQ24001RGWR	296-12968-2-ND	Single Cell Li-Ion Charge Management	20-QFN	6087.00/3,000		
BQ24002PWP	296-9379-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	3.62	2.90	2.26
BQ24002RGWR	296-12969-1-ND	Single Cell Li-Ion Charge Management	20-QFN	3.62	2.90	2.26
BQ24002RGWR	296-12969-2-ND	Single Cell Li-Ion Charge Management	20-QFN	6087.00/3,000		
BQ24003PWP	296-9380-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	3.62	2.90	2.26
BQ24003RGWR	296-12970-1-ND	Single Cell Li-Ion Charge Management	20-QFN	3.62	2.90	2.26
BQ24003RGWR	296-12970-2-ND	Single Cell Li-Ion Charge Management	20-QFN	6087.00/3,000		
BQ24004PWP	296-9381-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.62	2.90	2.26
BQ24005PWP	296-9382-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.62	2.90	2.26
BQ24006PWP	296-9383-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.62	2.90	2.26
BQ24007PWP	296-9384-5-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-HTSSOP	3.62	2.90	2.26
BQ24007RGWR	296-12971-1-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-QFN	3.62	2.90	2.26
BQ24007RGWR	296-12971-2-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-QFN	6087.00/3,000		
BQ24008PWP	296-9385-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.62	2.90	2.26
BQ24010DRCR	296-13714-1-ND	Single Chip, Li-Ion Charge Management	MLP-10	3.94	3.15	2.45
BQ24010DRCR	296-13714-2-ND	Single Chip, Li-Ion Charge Management	MLP-10	6615.00/3,000		
BQ24012DRCR	296-13715-1-ND	Single Chip, Li-Ion Charge Management	MLP-10	3.94	3.15	2.45
BQ24012DRCR	296-13715-2-ND	Single Chip, Li-Ion Charge Management	MLP-10	6615.00/3,000		
BQ24013DRCR	296-13716-1-ND	Single Chip, Li-Ion Charge Management	MLP-10	3.94	3.15	2.45
BQ24013DRCR	296-13716-2-ND	Single Chip, Li-Ion Charge Management	MLP-10	6825.00/3,000		
BQ24020DRCR	296-14072-1-ND	Li-Ion/Li-Pol Charger *NEW!*	MLP-10	4.48	3.59	2.79
BQ24020DRCR	296-14072-2-ND	Li-Ion/Li-Pol Charger *NEW!*	MLP-10	7521.00/3,000		
BQ24022DRCR	296-14397-1-ND	Single Cell Li-Ion Charge Management *NEW!*	MLP-10	4.48	3.59	2.79
BQ24022DRCR	296-14397-2-ND	Single Cell Li-Ion Charge Management *NEW!*	MLP-10	7521.00/3,000		
BQ24200DGN	296-12409-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.97	2.38	1.85
BQ24201DGN	296-12410-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.97	2.38	1.85
BQ24202DGN	296-12411-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.97	2.38	1.85
BQ24203DGN	296-12412-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.97	2.38	1.85
BQ24204DGN	296-12413-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.97	2.38	1.85
BQ24205DGN	296-12414-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.97	2.38	1.85
BQ24400D	296-12622-5-ND	Programmable NiCd/NiMH Charge Management	8-SOIC	3.11	2.49	1.94
BQ24400PW	296-12623-5-ND	Programmable NiCd/NiMH Charge Management	8-TSSOP	3.11	2.49	1.94
BQ24401D	296-12624-5-ND	Programmable NiCd/NiMH Charge Management	8-SOIC	3.11	2.49	1.94
BQ24401PW	296-12625-5-ND	Programmable NiCd/NiMH Charge Management	8-TSSOP	3.11	2.49	1.94
BQ24700PW	296-12361-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	4.05	3.24	2.52
BQ24701PW	296-12362-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	4.05	3.24	2.52

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ24901PW	296-14073-5-ND	Single Cell Li-Ion and Li-Pol Charger *NEW!*	14-TSSOP	4.25	3.41	2.65
BQ26200PW	296-12626-5-ND	High Performance Battery Monitor	8-TSSOP	4.01	3.21	2.50
BQ26220PW	296-14004-5-ND	High Performance Battery Monitor with Voltage and Temperature *NEW!*	8-TSSOP	4.10	3.28	2.55
BQ26231PW	296-12269-5-ND	Battery Coulomb Counter	8-TSSOP	3.04	2.43	1.89
BQ29311PW	296-13067-5-ND	3 and 4 Cell Li-Ion or Lithium-Polymer Battery Protection	24-TSSOP	2.57	2.06	1.60
TPS3600D25PW	296-12017-5-ND	Battery Backup Supervisor for LP Processors	14-TSSOP	4.59	3.68	2.86
TPS61130PW	296-13521-5-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.16	3.33	2.59
TPS61131PW	296-13522-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.16	3.33	2.59
TPS61132PW	296-13523-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.16	3.33	2.59
UC2906DW	296-2228-5-ND	Lead-Acid Battery Charger	16-SOIC	5.36	4.29	3.34
UC2909DW	296-12527-5-ND	Switchmode Lead-Acid Battery Charger	20-SOIC	5.52	4.42	3.73
UC2909N	296-2229-5-ND	Lead-Acid Battery Charger	20-Dip	5.52	4.42	3.73
UC3906DW	296-2230-5-ND	Lead-Acid Battery Charger	16-SOIC	5.36	4.29	3.34
UC3906Q	296-12193-5-ND	Lead-Acid Battery Charger	20-PLCC	5.36	4.29	3.34
UC3909DW	296-11345-5-ND	Lead-Acid Switchmode Charge Management	20-SOIC	5.52	4.42	3.73
UC3909N	296-2232-5-ND	Lead-Acid Switchmode Charge Management	20-Dip	5.52	4.42	3.73
UCC3911DP-1	296-11540-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOP	4.32	3.46	2.69
UCC3911DP-2	296-11541-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOP	4.32	3.46	2.69
UCC3911DP-3	296-11542-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOP	4.32	3.46	2.69
UCC3911DP-4	296-11543-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOP	4.32	3.46	2.69
UCC3952DP-1	296-11552-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.53	2.83	2.20
UCC3952DP-2	296-11553-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.53	2.83	2.20
UCC3952DP-3	296-11554-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.53	2.83	2.20
UCC3952DP-4	296-11555-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.53	2.83	2.20
UCC3952PW-1	296-11556-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.53	2.83	2.20
UCC3952PW-2	296-11557-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.53	2.83	2.20
UCC3952PW-3	296-11558-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.53	2.83	2.20
UCC3952PW-4	296-11559-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.53	2.83	2.20
UCC3956DW	296-11560-5-ND	Lithium-Ion Battery Circuit	8-SOIC	4.10	3.28	2.55
UCC3956N	296-2233-5-ND	Lithium-Ion Battery Circuit	20-Dip	4.10	3.28	2.55
UCC3957M-1	296-2234-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.13	2.51	1.95
UCC3957M-2	296-2235-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.13	2.51	1.95
UCC3957M-3	296-2236-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.13	2.51	1.95
UCC3957M-4	296-2237-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.13	2.51	1.95
TWL2214CAPFB	296-12295-ND	Lithium-Ion Battery Charge Control	48-TQFP	7.68	6.15	5.19

Buck Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPPM0115D	296-11987-5-ND	Switch Mode Sync. Buck Controller	8-SOIC	2.95	2.36	1.84
TPPM0115DR	296-11987-2-ND	Switch Mode Sync. Buck Controller	8-SOIC	4127.50/2,500		
TPS5120DBT	296-10925-ND	Dual Out Buck Controller	30-TSSOP	5.06	4.05	3.42
TPS5210DW	296-2021-5-ND	Sync. Buck Controller	28-SOIC	6.28	5.03	4.24
TPS5210PWP	296-10929-5-ND	Sync. Buck Controller	28-HTSSOP	6.28	5.03	4.24
TPS5211PWP	296-10931-5-ND	Sync. Buck Controller	28-HTSSOP	6.36	5.09	4.30
TPS5615PWP	296-2022-5-ND	Buck Regulator Controller	28-HTSSOP	6.60	5.28	4.46
TPS5618PWP	296-2023-5-ND	Buck Regulator Controller	28-HTSSOP	6.60	5.28	4.46
TPS5625PWP	296-2024-5-ND	Buck Regulator Controller	28-HTSSOP	6.60	5.28	4.46
TPS5633PWP	296-2025-5-ND	Buck Regulator Controller	28-HTSSOP	6.60	5.28	4.46
TPS40000DGQ	296-13051-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.35	1.88	1.41
TPS40001DGQ	296-13052-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.35	1.88	1.41
TPS40002DGQ	296-13053-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.35	1.88	1.41
TPS40003DGQ	296-13054-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.35	1.88	1.41
TPS40060PWP	296-14389-ND	Wide-Input, Synchronous Buck Controller *NEW!*	16-HTSSOP	2.81	2.25	1.75
TPS40061PWP	296-14390-ND	Wide-Input Synchronous Buck Controller *NEW!*	16-HTSSOP	2.81	2.25	1.75
TPS54310PWP	296-12509-5-ND	Sync. Buck PWM Converter	20-HTSSOP	6.56	5.25	4.43
TPS54311PWP	296-12679-5-ND	Sync. Buck PWM Converter	20-HTSSOP	6.56	5.25	4.43
TPS54312PWP	296-12680-5-ND	Sync. Buck PWM Converter	20-HTSSOP	6.56	5.25	4.43
TPS54313PWP	296-12681-5-ND	Sync. Buck PWM Converter	20-HTSSOP	6.56	5.25	4.43
TPS54314PWP	296-12682-5-ND	Sync. Buck PWM Converter	20-HTSSOP	6.56	5.25	4.43
TPS54315PWP	296-12683-5-ND	Sync. Buck PWM Converter	20-HTSSOP	6.56	5.25	4.43
TPS54316PWP	296-12684-5-ND	Sync. Buck PWM Converter	20-HTSSOP	6.56	5.25	4.43
TPS54373PWP	296-14327-5-ND	3A Sync. Buck Switcher *NEW!*	20-HTSSOP	6.56	5.25	4.43
TPS54380PWP	296-14391-ND	3A Sync. Buck PWM Switcher *NEW!*	20-HTSSOP	6.56	5.25	4.43
TPS54673PWP	296-13828-5-ND	3V to 6V Input, 6A Synchronous Buck Switcher *NEW!*	28-HTSSOP	8.84	7.08	5.97
TPS54680PWP	296-13829-5-ND	3V to 6V Input, 6A Synchronous Buck PWM Switcher (Swift™) *NEW!*	28-HTSSOP	8.84	7.08	5.97
TPS54810PWP	296-12715-5-ND	Sync. Buck PWM Converter	28-HTSSOP	9.32	7.46	6.30
TPS54873PWP	296-13830-5-ND	4V to 6V Input, 8A Synchronous Buck Switcher *NEW!*	28-HTSSOP	9.32	7.46	6.30
TPS54880PWP	296-13831-5-ND	4V to 6V Input, 8A Synchronous Buck PWM Switcher (Swift™) *NEW!*	28-HTSSOP	9.32	7.46	6.30
TPS54973PWP	296-14414-5-ND	9A Sync. Buck Switcher *NEW!*	28-HTSSOP	9.88	7.91	6.67
TPS54980PWP	296-14415-5-ND	9A Sync. Buck PWM Switcher *NEW!*	28-HTSSOP	9.88	7.91	6.67
TPS60240DGKR	296-12510-1-ND	3.3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.27	1.82	1.42
TPS60240DGKR	296-12510-2-ND	3.3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	3182.50/2,500		
TPS60241DGKT	296-12241-1-ND	Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.27	1.82	1.42
TPS60241DGKT	296-12241-2-ND	Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	335.75/250		
TPS60242DGKT	296-12511-5-ND	2.7V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.27	1.82	1.42

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS60243DGKT	296-12512-5-ND	3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.27	1.82	1.42
TPS62100D	296-10976-5-ND	Adjustable Sync. Buck Converter	8-SOP	3.83	3.06	2.38
TPS62101D	296-10977-5-ND	Adjustable Sync. Buck Converter	8-SOP	3.83	3.06	2.38
TPS62102D	296-10978-5-ND	Adjustable Sync Buck Converter	8-SOP	3.83	3.06	2.38
TPS62103D	296-10979-5-ND	Adjustable Sync Buck Converter	8-SOP	3.83	3.06	2.38
UCC3585D	296-11448-5-ND	Low Voltage Buck Controller	16-SOIC	2.57	2.06	1.60
UCC3585M	296-11450-5-ND	Low Voltage Buck Controller	16-SSOP	2.57	2.06	1.60
UCC3585N	296-11451-5-ND	Low Voltage Buck Controller	16-Dip	2.57	2.06	1.60
UCC27221PWP	296-14216-5-ND	Predictive Synchronous Buck Driver *NEW!*	14-HTSSOP	2.68	2.15	1.67
UCC27222PWP	296-14217-5-ND	Predictive Synchronous Buck Driver *NEW!*	14-HTSSOP	2.68	2.15	1.67

DC-to-DC Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
0722MG	0722MG-ND	Dual-Isolated DC/DC Converter	20-OmniPak	104.99	97.99	90.99
DCP021212DU	296-9446-5-ND	2W Unregulated DC/DC Converter	28-SOP	10.58	9.53	8.45
DCP021212U	296-9447-5-ND	2W Unregulated DC/DC Converter	12-SOP	10.58	9.53	8.45
DCP021515U	296-9448-5-ND	2W Unregulated DC/DC Converter	8-SOP	10.58	9.53	8.45
DCP022405U	296-12367-5-ND	2 Watt DC/DC Converter, 24V In, ±5V Out	8-SOP	10.58	9.53	8.45
DCP022415DU	296-9449-5-ND	2W Unregulated DC/DC Converter	12-SOP	10.58	9.53	8.45
DCP010505BP	DCP010505BP-ND	Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	9.64	7.72	6.51
DCP010505BP-U	DCP010505BP-U-ND	Isolated DC/DC Converter, 5V In, 5V Out	14-GullWing	9.64	7.72	6.51
DCP010505DBP	DCP010505DBP-ND	Isolated DC/DC Converter, 5V In, Dual ±5V Out	14-Dip	8.83	7.95	7.05
DCP010505DBP-U	DCP010505DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual ±5V Out	14-GullWing	8.83	7.95	7.05
DCP010512BP	DCP010512BP-ND	Isolated DC-DC Converter, 5V In, 12V Out	14-Dip	9.64	7.72	6.51
DCP010512BP-U	DCP010512BP-U-ND	Isolated DC/DC Converter, 5V In, 12V Out	14-GullWing	9.64	7.72	6.51
DCP010512DBP	DCP010512DBP-ND	Isolated DC/DC Converter, 5V In, Dual 12V Out	14-Dip	10.60	8.48	7.16
DCP010512DBP-U	DCP010512DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual 12V Out	14-GullWing	10.60	8.48	7.16
DCP010515BP	DCP010515BP-ND	Isolated DC/DC Converter, 5V In, 15V Out	14-Dip	9.64	7.72	6.51
DCP010515BP-U	DCP010515BP-U-ND	Isolated DC/DC Converter, 5V In, 15V Out	14-GullWing	9.64	7.72	6.51
DCP010515DBP	DCP010515DBP-ND	Isolated DC/DC Converter, 5V In, Dual 15V Out	14-Dip	10.60	8.48	7.16
DCP010515DBP-U	DCP010515DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual 15V Out	14-GullWing	9.64	7.72	6.51
DCP011512DBP	DCP011512DBP-ND	Isolated DC/DC Converter, 15V In, Dual ±12V Out	14-Dip	8.83	7.95	7.05
DCP011512DBP-U	DCP011512DBP-U-ND	Isolated DC/DC Converter, 15V In, Dual ±12V Out	14-GullWing	8.83	7.95	7.05
DCP011515DBP	DCP011515DBP-ND	Isolated DC/DC Converter, 15V In, Dual ±15V Out	14-Dip	8.83	7.95	7.05
DCP011515DBP-U	DCP011515DBP-U-ND	Isolated DC/DC Converter, 15V In, Dual ±15V Out	14-GullWing	8.83	7.95	7.05
DCP012405BP	DCP012405BP-ND	Isolated DC/DC Converter, 24V In, 5V Out	14-Dip	9.64	7.72	6.51
DCP012405BP-U	DCP012405BP-U-ND	Isolated DC/DC Converter, 24V In, 5V Out	14-GullWing	9.64	7.72	6.51
DCP012415DBP	DCP012415DBP-ND	Isolated DC/DC Converter, 24V In, Dual ±15V Out	14-Dip	8.83	7.95	7.05
DCP012415DBP-U	DCP012415DBP-U-ND	Isolated DC/DC Converter, 24V In, Dual ±15V Out	14-GullWing	8.83	7.95	7.05
DCP020503P	DCP020503P-ND	2W DC/DC Converter, 5V In, 3V Out	14-Dip	10.41	9.38	8.32
DCP020503U	DCP020503U-ND	2W DC/DC Converter, 5V In, 3V Out	28-SOIC	10.58	9.53	8.45
DCP020505P	DCP020505P-ND	2W DC/DC Converter, 5V In, 5V Out	14-Dip	10.41	9.38	8.32
DCP020505U	DCP020505U-ND	2W DC/DC Converter, 5V In, 5V Out	28-SOIC	10.58	9.53	8.45
DCP020507P	DCP020507P-ND	2W DC/DC Converter, 5V In, 7V Out	14-Dip	10.41	9.38	8.32
DCP020507U	DCP020507U-ND	2W DC/DC Converter, 5V In, 7V Out	28-SOIC	10.58	9.53	8.45
DCP020509P	DCP020509P-ND	2W DC/DC Converter, 5V In, 9V Out	14-Dip	10.41	9.38	8.32
DCP020509U	DCP020509U-ND	2W DC/DC Converter, 5V In, 9V Out	28-SOIC	10.58	9.53	8.45
DCP020515DP	DCP020515DP-ND	2W DC/DC Conv., 5V In, ±15V Out	14-Dip	10.41	9.38	8.32
DCP020515DU	DCP020515DU-ND	2W DC/DC Conv., 5V In, ±15V Out	28-SOIC	10.58	9.53	8.45
DCP021205P	DCP021205P-ND	2W DC/DC Conv., 12V In, 5V Out	14-Dip	10.41	9.38	8.32
DCP021205U	DCP021205U-ND	2W DC/DC Conv., 12V In, 5V Out	28-SOIC	10.58	9.53	8.45
DCP021212DP	DCP021212DP-ND	2W DC/DC Conv., 12V In, ±12V Out	14-Dip	10.41	9.38	8.32
DCP021212P	DCP021212P-ND	2W DC/DC Conv., 12V In, 12V Out	14-Dip	10.41	9.38	8.32
DCP021515P	DCP021515P-ND	2W DC/DC Conv., 15V In, 15V Out	14-Dip	10.41	9.38	8.32
DCP022405DP	DCP022405DP-ND	2W DC/DC Conv., 24V In, ±5V Out	14-Dip	10.41	9.38	8.32
DCP022405P	DCP022405P-ND	2W DC/DC Conv., 24V In, 5V Out	14-Dip	10.41	9.38	8.32
DCP022415DP	DCP022415DP-ND	2W DC/DC Conv., 24V In, ±15V Out	14-Dip	10.41	9.38	8.32
DCR010503P	DCR010503P-ND	Isolated DC/DC Converter, 5V to 3V	18-Dip	10.76	8.61	7.27
DCR010503U	296-9450-5-ND	1W Regulated DC/DC Converter	12-SOP	9.45	8.51	7.55
DCR010505P	DCR010505P-ND	Isolated DC/DC Converter, 5V to 5V	18-Dip	10.76	8.61	7.27
DCR010505U	296-9451-5-ND	1W Regulated DC/DC Converter	12-SOP	9.45	8.51	7.55
DCR011203P	DCR011203P-ND	DC/DC Converter, 12V to 3V	18-Dip	10.76	8.61	7.27
DCR011203U	296-9452-5-ND	1W Regulated DC/DC Converter	12-SOP	9.45	8.51	7.55
DCR011205P	DCR011205P-ND	DC/DC Converter, 12V to 5V	18-Dip	10.76	8.61	7.27
DCR011205U	296-9453-5-ND	1W Regulated DC/DC Converter	12-SOP	9.45	8.51	7.55
DCR012403P	296-9454-5-ND	1W Regulated DC/DC Converter	10-Dip	8.96	8.07	7.16
DCR012403U	296-9455-5-ND	1W Regulated DC/DC Converter	12-SOP	9.45	8.51	7.55
DCR012405P	296-9456-5-ND	1W Regulated DC/DC Converter	10-Dip	8.96	8.07	7.16
DCR012405U	296-9457-5-ND	1W Regulated DC/DC Converter	12-SOP	9.45	8.51	7.55
DCR021205P	296-9458-5-ND	2W Regulated DC/DC Converter	10-Dip	10.96	9.87	8.76
DCR022405P	296-9459-5-ND	2W Regulated DC/DC Converter	10-Dip	10.96	9.87	8.76
DCV010505DP	296-13450-5-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	13.61	12.26	10.87
DCV010505P	DCV010505P-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	12.81	11.54	10.23
DCV010505P-U	DCV010505P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-GullWing	12.81	11.54	10.23
DCV010512DP	DCV010512DP-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 12V Out	14-Dip	13.61	12.26	10.87
DCV010512DP-U	DCV010512DP-U-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 12V Out	14-GullWing	13.61	12.26	10.87
DCV010512P	DCV010512P-ND	Mini, Isolated DC/DC Converter, 5V In, 12V Out	14-Dip	12.81	11.54	10.23
DCV010512P-U	DCV010512P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 12V Out	14-GullWing	12.81	11.54	10.23
DCV010515DP	DCV010515DP-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 15V Out	14-Dip	13.61	12.26	10.87
DCV010515DP-U	DCV010515DP-U-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 15V Out	14-GullWing	13.61	12.26	10.87
DCV010515P	DCV010515P-ND	Mini, Isolated DC/DC Converter, 5V In, 15V Out	14-Dip	12.81	11.54	10.23
DCV010515P-U	DCV010515P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 15V Out	14-GullWing	12.81	11.54	10.23
DCV011512DP	DCV011512DP-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-Dip	13.61	12.26	10.87
DCV011512DP-U	DCV011512DP-U-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-GullWing	13.61	12.26	10.87
DCV011512DP-U/700	DCV011512DP-UTR-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-GullWing	7166.60/700		
DCV011515DP	DCV011515DP-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-Dip	13.61	12.26	10.87
DCV011515DP-U	DCV011515DP-U-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-GullWing	13.61	12.26	10.87
DCV011515DP-U/700	DCV011515DP-UTR-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-GullWing	7166.60/700		
DCV012405P	DCV012405P-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-Dip	12.81	11.54	10.23
DCV012405P-U	DCV012405P-U-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-GullWing	12.81	11.54	10.23
DCV012405P-U/700	DCV012405P-UTR-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-GullWing	6737.50/700		
DCV012415DP	DCV012415DP-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	14-Dip	13.61	12.26	10.87
DCV012415DP-U	DCV012415DP-U-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	14-GullWing	13.61	12.26	10.87
DCV012415DP-U/700	DCV012415DP-UTR-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	14-GullWing	7166.60/700		
LT1054CDW	296-9590-5-ND	Bipolar Regulated Volt. Converter	16-SOP	2.38	1.90	1.43
LT1054CDWR	296-14618-1-ND	Bipolar Regulated Volt. Converter *NEW!*	16-SOIC	2.38	1.90	1.43
LT1054CDWR	296-14618-2-ND	Bipolar Regulated Volt. Converter *NEW!*	16-SOIC	2470.00/2,000		
LT1054CP	296-9591-5-ND	Bipolar Regulated Volt. Converter	8-Dip	2.38	1.90	1.43
LT1054IDW	296-9592-5-ND	Bipolar Regulated Volt. Converter	16-SOP	2.93	2.34	1.82
REG710NA-2.5/250	296-12133-1-ND	2.5V, 30mA DC/DC Converter	SOT-23-6	2.15	1.72	1.29
REG710NA-2.5/250	296-12133-2-ND	2.5V, 30mA DC/DC Converter	SOT-23-6	301.00/250		
REG710NA-2.7/250	296-12134-1-ND	2.7V, 30mA DC/DC Converter	SOT-23-6	2.15	1.72	1.29
REG710NA-2.7/250	296-12134-2-ND	2.7V, 30mA DC/DC Converter	SOT-23-6	301.00/250		
REG710NA-3.3/250	296-12135-1-ND	3.3V, 30mA DC/DC Converter	SOT-23-6	2.15	1.72	1.29
REG710NA-3.3/250	296-12135-2-ND	3.3V, 30mA DC/DC Converter	SOT-23-6	301.00/250		
REG710NA-3/250	296-12136-1-ND	3.0V, 30mA DC/DC Converter	SOT-23-6	2.15	1.72	1.29
REG710NA-3/250	296-12136-2-ND	3.0V, 30mA DC/DC Converter	SOT-23-6	301.00/250		
REG710NA-5/250	296-12137-1-ND	5.0V, 30mA DC/DC Converter	SOT-23-6	2.15	1.72	1.29
REG710NA-5/250	296-12137-2-ND	5.0V, 30mA DC/DC Converter	SOT-23-6	301.00/250		
TPS5102IDBT	296-2260-5-ND	Dual DC/DC Controller	30-SSOP	5.94	4.76	4.01
TPS5103IDB	296-2261-5-ND	Multimode DC/DC Controller	20-SSOP	3.42	2.74	2.13
TPS5140PAG	296-12364-ND	Quad-Out High Efficiency DC/DC Controller	64-TQFP	9.52	7.62	6.43
TPS5300DAP	296-12508-5-ND	CPU Power Supply Controller	32-TSSOP	6.26	5.01	4.23
TPS5602IDBT	296-2262-5-ND	Dual DC/DC Controller	30-SSOP	6.14	4.92	4.15
TPS6734ID	296-3225-5-ND	12V, 120mA Boost Converter	8-SOIC	2.48	1.98	1.54
TPS6734IDR	296-3225-1-ND	12V, 120mA Boost Converter	8-SOIC	2.48	1.98	1.54
TPS6734IDR	296-3225-2-ND	12V, 120mA Boost Converter	8-SOIC	3465.00/2,500		
TPS6734IP	296-3226-5-ND	12V, 120mA Boost Converter	8-Dip	2.48	1.98	1.54
TPS6735ID	296-10982-5-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	2.48	1.98	1.54
TPS6735IDR	296-10982-1-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	2.48	1.98	1.54
TPS6735IDR	296-10982-2-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	3465.00/2,500		
TPS6735IP	296-10983-5-ND	Neg. 5V, 200mA DC/DC Converter	8-Dip	2.48	1.98	1.54
TPS6755ID	296-10984-5-ND	Adj, 200mA DC/DC Converter	8-SOIC	2.48	1.98	1.54
TPS6755IP	296-10985-5-ND	Adj, 200mA DC/DC Converter	8-Dip	2.48	1.98	1.54
TPS54900PW	296-13408-5-ND	Programmable 4-Channel Step-Down DC/DC Converter	16-TSSOP	10.86	9.78	8.68
TPS60300DGSR	296-13410-1-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.13	1.70	1.28
TPS60300DGSR	296-13410-2-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2720.00/2,500		
TPS60301DGSR	296-13411-1-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.13	1.70	1.28
TPS60301DGSR	296-13411-2-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2720.00/2,500		
TPS60302DGSR	296-13412-1-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.13	1.70	1.28
TPS60302DGSR	296-13412-2-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2720.00/2,500		
TPS60303DGSR	296-13413-1-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.13	1.70	1.28
TPS60303DGSR	296-13413-2-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2720.00/2,500		
TPS60310DGSR	296-13414-1-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.33	1.86	1.40
TPS60310DGSR	296-13414-2-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2975.00/2,500		
TPS60311DGSR	296-13415-1-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.33	1.86	1.40
TPS60311DGSR	296-13415-2-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2975.00/2,500		
TPS60312DGSR	296-13416-1-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.33	1.86	1.40

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS60312DGSR	296-13416-2-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2975.00/2,500		
TPS60313DGSR	296-13417-1-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.33	1.86	1.40
TPS60313DGSR	296-13417-2-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2975.00/2,500		
TPS60403DBVT	296-13418-1-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	.81	.68	.54
TPS60403DBVT	296-13418-2-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	101.25/250		
TPS61040DBVR	296-12685-1-ND	LP DC/DC Boost Converter	SOT-23-5	2.35	1.88	1.41
TPS61040DBVR	296-12685-2-ND	LP DC/DC Boost Converter	SOT-23-5	3609.00/3,000		
TPS61041DBVR	296-12686-1-ND	LP DC/DC Boost Converter	SOT-23-5	1.65	1.32	.99
TPS61041DBVR	296-12686-2-ND	LP DC/DC Boost Converter	SOT-23-5	2535.00/3,000		
TPS54610PWP	296-12123-5-ND	Low Input Voltage, 6A Continuous Buck Converter 3.3V Out	28-HTSSOP	8.84	7.08	5.97
TPS54611PWP	296-12124-5-ND	Low Input Voltage 6A Continuous Buck Converter 0.9V Out	28-HTSSOP	8.84	7.08	5.97
TPS54612PWP	296-12125-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.2V Out	28-HTSSOP	8.84	7.08	5.97
TPS54613PWP	296-12126-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.5V Out	28-HTSSOP	8.84	7.08	5.97
TPS54614PWP	296-12127-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.8V Out	28-HTSSOP	8.84	7.08	5.97
TPS54615PWP	296-12128-5-ND	Low Input Voltage 6A Continuous Buck Converter 2.5V Out	28-HTSSOP	8.84	7.08	5.97
TPS54672PWP	296-12130-5-ND	Track-Termination Synch. PWM Switcher with Integrated FETs	28-HTSSOP	8.84	7.08	5.97
TPS60100PWP	296-2263-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.45	1.97	1.53
TPS60101PWP	296-2264-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.33	1.86	1.40
TPS60110PWP	296-2265-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.63	2.11	1.64
TPS60111PWP	296-2266-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.27	1.82	1.42
TPS60120PWP	296-2267-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.45	1.97	1.53
TPS60121PWP	296-2268-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.45	1.97	1.53
TPS60122PWP	296-2269-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.33	1.86	1.40
TPS60123PWP	296-2270-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.33	1.86	1.40
TPS60124PWP	296-10948-5-ND	3.3V, 200mA, DC/DC Converter	20-HTSSOP	2.45	1.97	1.53
TPS60125PWP	296-10949-5-ND	3.3V, 200mA, DC/DC Converter	20-HTSSOP	2.45	1.97	1.53
TPS60130PWP	296-2271-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.63	2.11	1.64
TPS60131PWP	296-2272-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.63	2.11	1.64
TPS60132PWP	296-2273-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.27	1.82	1.42
TPS60133PWP	296-2274-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.27	1.82	1.42
TPS60140PWP	296-2275-5-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.33	1.86	1.40
TPS60140PWPR	296-2275-1-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.33	1.86	1.40
TPS60140PWPR	296-2275-2-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2418.00/2,000		
TPS60141PWP	296-2276-5-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.33	1.86	1.40
TPS60141PWPR	296-2276-1-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.33	1.86	1.40
TPS60141PWPR	296-2276-2-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2418.00/2,000		
TPS60200DGS	296-10954-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.33	1.86	1.40
TPS60201DGS	296-10956-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.33	1.86	1.40
TPS60202DGS	296-10957-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.13	1.70	1.28
TPS60203DGS	296-10958-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.13	1.70	1.28
TPS60204DGSR	296-12365-1-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-TSSOP	2.33	1.86	1.40
TPS60204DGSR	296-12365-2-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-TSSOP	2975.00/2,500		
TPS60205DGSR	296-12366-1-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-TSSOP	2.33	1.86	1.40
TPS60205DGSR	296-12366-2-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-TSSOP	2975.002,500		
TPS60210DGS	296-10959-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.33	1.86	1.40
TPS60211DGS	296-10961-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.33	1.86	1.40
TPS60212DGS	296-10962-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.13	1.70	1.28
TPS60213DGS	296-10963-5-ND	3.3V, 50mA Low Ripple Charge Pump	10-TSSOP	2.13	1.70	1.28
TPS60400DBVT	296-12013-1-ND	60mA Charge Pump Voltage Inverter	SOT-23-5	.81	.68	.54
TPS60400DBVT	296-12013-2-ND	60mA Charge Pump Voltage Inverter	SOT-23-5	101.25/250		
TPS60401DBVT	296-12014-1-ND	60mA Charge Pump Voltage Inverter	SOT-23-5	.81	.68	.54
TPS60401DBVT	296-12014-2-ND	60mA Charge Pump Voltage Inverter	SOT-23-5	101.25/250		
TPS60402DBVT	296-12015-1-ND	60mA Charge Pump Voltage Inverter	SOT-23-5	.81	.68	.54
TPS60402DBVT	296-12015-2-ND	60mA Charge Pump Voltage Inverter	SOT-23-5	101.25/250		
TPS60500DGS	296-12513-5-ND	0.8-3.3V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	1.80	1.44	1.08
TPS60501DGS	296-12514-5-ND	3.3V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	1.80	1.44	1.08
TPS60502DGS	296-12515-5-ND	1.8V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	1.80	1.44	1.08
TPS60503DGS	296-12516-5-ND	1.5V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	1.80	1.44	1.08
TPS61000DGS	296-3217-5-ND	Adj., 100mA Boost Converter	10-TSSOP	1.95	1.56	1.17
TPS61001DGS	296-3218-5-ND	1.5V, 100mA Boost Converter	10-TSSOP	1.95	1.56	1.17
TPS61002DGS	296-3219-5-ND	1.8V, 100mA Boost Converter	10-TSSOP	1.95	1.56	1.17
TPS61003DGS	296-3220-5-ND	2.5V, 100mA Boost Converter	10-TSSOP	1.95	1.56	1.17
TPS61004DGS	296-3221-5-ND	2.8V, 100mA Boost Converter	10-TSSOP	1.95	1.56	1.17
TPS61005DGS	296-3222-5-ND	3.0V, 100mA Boost Converter	10-TSSOP	1.95	1.56	1.17
TPS61006DGS	296-3223-5-ND	3.3V, 100mA Boost Converter	10-TSSOP	1.95	1.56	1.17
TPS61007DGS	296-3224-5-ND	Adj., 100mA Boost Converter	10-TSSOP	1.95	1.56	1.17
TPS61010DGS	296-10969-5-ND	Adj., Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.49
TPS61011DGS	296-10970-5-ND	1.5V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.49
TPS61012DGS	296-10971-5-ND	1.8V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.49
TPS61013DGS	296-10972-5-ND	2.5V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.49
TPS61014DGS	296-10973-5-ND	2.8V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.49

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS61015DGS	296-10974-5-ND	3.0V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.49
TPS61016DGS	296-10975-5-ND	3.3V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.49
TPS61030PWPR	296-14416-1-ND	Single or Dual Cell Boost Converter *NEW!*	16-TSSOP	4.25	3.41	2.65
TPS61030PWPR	296-14416-2-ND	Single or Dual Cell Boost Converter *NEW!*	16-TSSOP	4820.00/2,000		
TPS61031PWPR	296-14417-1-ND	Single or Dual Cell Boost Converter *NEW!*	16-TSSOP	4.25	3.41	2.65
TPS61031PWPR	296-14417-2-ND	Single or Dual Cell Boost Converter *NEW!*	16-TSSOP	4820.00/2,000		
TPS61032PWPR	296-14418-1-ND	Single or Dual Cell Boost Converter *NEW!*	16-TSSOP	4.25	3.41	2.65
TPS61032PWPR	296-14418-2-ND	Single or Dual Cell Boost Converter *NEW!*	16-TSSOP	4820.00/2,000		
TPS61045DRBR	296-14419-1-ND	Adjustable LCD Boost Converter *NEW!*	8-QFN	2.68	2.15	1.67
TPS61045DRBR	296-14419-2-ND	Adjustable LCD Boost Converter *NEW!*	8-QFN	4497.00/3,000		
TPS61100PW	296-13515-5-ND	Adj., Dual Output, Single Cell Boost Converter	20-TSSOP	3.74	2.99	2.33
TPS61103PW	296-13516-5-ND	3.3V, Dual Output, Single Cell Boost Converter	20-TSSOP	3.74	2.99	2.33
TPS61106PW	296-13517-5-ND	3.3V, Dual Output, Single Cell Boost Converter	20-TSSOP	3.74	2.99	2.33
TPS61107PWR	296-13750-1-ND	Dual Output, Single Cell Boost Converter	20-TSSOP	3.74	2.99	2.33
TPS61107PWR	296-13750-2-ND	Dual Output, Single Cell Boost Converter	20-TSSOP	4234.00/2,000		
TPS61120PW	296-13518-5-ND	Adj., Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	3.96	3.17	2.47
TPS61121PW	296-13519-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	3.96	3.17	2.47
TPS61122PW	296-13520-5-ND	3.6V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	3.96	3.17	2.47
TPS62007DGS	296-12517-5-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	3.20	2.56	1.99
TPS62050DGSR	296-14392-1-ND	800mA Synchronous Step-Down Converter *NEW!*	10-MSOP	3.71	2.97	2.31
TPS62050DGSR	296-14392-2-ND	800mA Synchronous Step-Down Converter *NEW!*	10-MSOP	5197.50/2,500		
TPS62051DGS	296-14209-5-ND	800mA Synchronous Step-Down Converter *NEW!*	10-MSOP	3.71	2.97	2.31
TPS62052DGS	296-14210-5-ND	800mA Synchronous Step-Down Converter *NEW!*	10-MSOP	3.71	2.97	2.31
TPS62054DGS	296-14211-5-ND	800mA Synchronous Step-Down Converter *NEW!*	10-MSOP	3.71	2.97	2.31
TPS62056DGS	296-14212-5-ND	800mA Synchronous Step-Down Converter *NEW!*	10-MSOP	3.71	2.97	2.31
TPS62200DBVR	296-12716-1-ND	Adj., High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.77	2.22	1.73
TPS62200DBVR	296-12716-2-ND	Adj., High Efficiency Step-Down, DC/DC Converter	SOT-23-5	4650.00/3,000		
TPS62201DBVT	296-12717-1-ND	1.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.77	2.22	1.73
TPS62201DBVT	296-12717-2-ND	1.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	409.00/250		
TPS62202DBVT	296-12718-1-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.77	2.22	1.73
TPS62202DBVT	296-12718-2-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	409.00/250		
TPS62203DBVT	296-12719-1-ND	3.3V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.77	2.22	1.73
TPS62203DBVT	296-12719-2-ND	3.3V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	409.00/250		
TPS62204DBVT	296-12720-1-ND	1.6V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.77	2.22	1.73
TPS62204DBVT	296-12720-2-ND	1.6V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	409.00/250		
TPS62205DBVT	296-12721-1-ND	2.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.77	2.22	1.73
TPS62205DBVT	296-12721-2-ND	2.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	409.00/250		
UCC2941D-3	296-12143-5-ND	1V Synchronous Boost Converter	8-SOIC	2.97	2.38	1.85
UCC2941D-5	296-12144-5-ND	1V Synchronous Boost Converter	8-SOIC	2.97	2.38	1.85
UCC2941D-ADJ	296-12145-5-ND	1V Synchronous Boost Converter	8-SOIC	2.97	2.38	1.85
UCC3941D-3	296-2280-5-ND	1V to 3V Synch. Boost Converter	8-SOIC	2.97	2.38	1.85
UCC3941DTR-3	296-2280-1-ND	1V to 3V Synch. Boost Converter	8-SOIC	2.97	2.38	1.85
UCC3941DTR-3	296-2280-2-ND	1V to 3V Synch. Boost Converter	8-SOIC	4157.50/2,500		
UCC3941D-5	296-2281-5-ND	1V to 5V Synch. Boost Converter	8-SOIC	2.97	2.38	1.85
UCC3941DTR-5	296-2281-1-ND	1V to 5V Synch. Boost Converter	8-SOIC	2.97	2.38	1.85
UCC3941DTR-5	296-2281-2-ND	1V to 5V Synch. Boost Converter	8-SOIC	4157.50/2,500		
UCC3941D-ADJ	296-2282-5-ND	1V Adj. Synch. Boost Converter	8-SOIC	2.97	2.38	1.85
UCC3941N-3	296-3228-5-ND	3.3V Synch. Boost Converter	8-Dip	2.97	2.38	1.85
UCC3941N-5	296-3229-5-ND	5V Synch. Boost Converter	8-Dip	2.97	2.38	1.85
UCC3941N-ADJ	296-3230-5-ND	1V Adj. Synch. Boost Converter	8-Dip	2.97	2.38	1.85
UCC39411N	296-13534-5-ND	1V Adj. Low Power Synchronous Boost Converter	8-Dip	2.54	2.04	1.59
UCC39411PW	296-3227-5-ND	1V Adj. Low Power Synchronous Boost Converter	8-TSSOP	2.66	2.13	1.66
UCC39412D	296-2278-5-ND	Low Power Synch. Boost Converter	8-SOIC	2.54	2.04	1.59
UCC39412PW	296-13443-5-ND	Low Power Synch. Boost Converter	8-TSSOP	2.66	2.13	1.66
UCC39413D	296-2279-5-ND	Low Power Synch. Boost Converter	8-SOIC	2.54	2.04	1.59

Microprocessor Supervisory Circuit Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL7700CPWR	296-13050-1-ND	Adj., Supply Voltage Supervisor	8-TSSOP	2.81	2.25	1.75
TL7700CPWR	296-13050-2-ND	Adj., Supply Voltage Supervisor	8-TSSOP	3188.00/2,000		
TL7702ACD	296-1295-5-ND	2.53V Supply Monitor	8-SOIC	.88	.66	.50
TL7702ACDR	296-1295-1-ND	2.53V Supply Monitor	8-SOIC	.88	.66	.50
TL7702ACDR	296-1295-2-ND	2.53V Supply Monitor	8-SOIC	715.00/2,500		
TL7702ACP	296-3232-5-ND	2.53V Supply Monitor	8-Dip	.88	.66	.50
TL7702AID	296-3233-5-ND	2.53V Supply Monitor	8-SOIC	.81	.68	.54
TL7702AIP	296-3234-5-ND	2.53V Supply Monitor	8-Dip	.81	.68	.54
TL7702BCD	296-1296-5-ND	2.53V Supply Monitor	8-SOIC	.81	.68	.54
TL7702BCDR	296-1296-1-ND	2.53V Supply Monitor	8-SOIC	.81	.68	.54

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL7702BCDR	296-1296-2-ND	2.53V Supply Monitor	8-SOIC	877.50/2,500		
TL7702BCP	296-3236-5-ND	2.53V Supply Monitor	8-Dip	.81	.68	.54
TL7702BID	296-3237-5-ND	2.53V Supply Monitor	8-SOIC	.93	.78	.62
TL7702BIP	296-3238-5-ND	2.53V Supply Monitor	8-Dip	.93	.78	.62
TL7705ACD	296-1297-5-ND	4.55V Supply Monitor	8-SOIC	.75	.63	.50
TL7705ACDR	296-1297-1-ND	4.55V Supply Monitor	8-SOIC	.75	.63	.50
TL7705ACDR	296-1297-2-ND	4.55V Supply Monitor	8-SOIC	812.50/2,500		
TL7705ACP	296-1801-5-ND	4.55V Supply Monitor	8-Dip	.75	.63	.50
TL7705ACPSR	296-3239-1-ND	4.55V Supply Monitor	8-SOIC	.75	.63	.50
TL7705ACPSR	296-3239-2-ND	4.55V Supply Monitor	8-SOIC	666.00/2,000		
TL7705AID	296-3240-5-ND	4.55V Supply Monitor	8-SOIC	.90	.75	.60
TL7705AIP	296-3241-5-ND	4.55V Supply Monitor	8-Dip	.90	.75	.60
TL7705BCD	296-1298-5-ND	4.55V Supply Monitor	8-SOIC	.78	.65	.52
TL7705BCDR	296-1298-1-ND	4.55V Supply Monitor	8-SOIC	.78	.65	.52
TL7705BCDR	296-1298-2-ND	4.55V Supply Monitor	8-SOIC	845.00/2,500		
TL7705BCP	296-3242-5-ND	4.55V Supply Monitor	8-Dip	.78	.65	.52
TL7705BID	296-3243-5-ND	4.55V Supply Monitor	8-SOIC	.99	.83	.66
TL7705BIP	296-3244-5-ND	4.55V Supply Monitor	8-Dip	.99	.83	.66
TL7705BQD	296-3245-5-ND	4.55V Supply Monitor	8-SOIC	1.88	1.50	1.13
TL7709ACD	296-3247-5-ND	7.6V Supply Monitor	8-SOIC	1.41	1.18	.94
TL7709ACP	296-3248-5-ND	7.6V Supply Monitor	8-Dip	1.41	1.18	.94
TL7712ACD	296-3249-5-ND	10.8V Supply Monitor	8-SOIC	1.35	1.13	.90
TL7712ACP	296-3250-5-ND	10.8V Supply Monitor	8-Dip	1.35	1.13	.90
TL7715ACD	296-3251-5-ND	Supply Voltage Supervisor *NEW!*	8-SOP	1.41	1.18	.94
TL7715ACP	296-3252-5-ND	Supply Voltage Supervisor *NEW!*	8-Dip	1.41	1.18	.94
TL7726CD	296-3253-5-ND	Hex Clamping Circuit	8-SOIC	1.63	1.30	.98
TL7726CP	296-3254-5-ND	Hex Clamping Circuit	8-Dip	1.63	1.30	.98
TL7726ID	296-3255-5-ND	Hex Clamping Circuit	8-SOIC	1.88	1.50	1.13
TL7726IP	296-3256-5-ND	Hex Clamping Circuit	8-Dip	1.88	1.50	1.13
TL7733BCDR	296-12952-1-ND	Supply Voltage Supervisor	8-SOIC	1.30	1.04	.78
TL7733BCDR	296-12952-2-ND	Supply Voltage Supervisor	8-SOIC	1665.00/2,500		
TL7733BCP	296-12953-5-ND	Supply Voltage Supervisor	8-Dip	1.30	1.04	.78
TL7733BIDR	296-13356-1-ND	Supply Voltage Supervisor	8-SOP	1.50	1.20	.90
TL7733BIDR	296-13356-2-ND	Supply Voltage Supervisor	8-SOP	1920.00/2,500		
TL7733BIP	296-13357-5-ND	Supply Voltage Supervisor	8-Dip	1.50	1.20	.90
TL7757CD	296-3257-5-ND	4.55V Supply Monitor/V. Detector	8-SOP	.87	.73	.58
TL7757CLP	296-1992-ND	4.55V Supply Monitor/V. Detector	TO-226AA	.87	.73	.58
TL7757CLPR	296-1992-1-ND	4.55V Supply Monitor/V. Detector	TO-226AA	.87	.73	.58
TL7757CLPR	296-1992-2-ND	4.55V Supply Monitor/V. Detector	TO-226AA	772.00/2,000		
TL7757CPK	296-3259-1-ND	4.55V Supply Monitor/V. Detector	SOT-89	.87	.73	.58
TL7757CPK	296-3259-2-ND	4.55V Supply Monitor/V. Detector	SOT-89	386.00/1,000		
TL7757ID	296-3260-5-ND	4.55V Supply Monitor/V. Detector	8-SOIC	1.05	.88	.70
TL7757ILP	296-3261-5-ND	4.55V Supply Monitor/V. Detector	TO-226AA	1.05	.88	.70
TL7757IPK	296-3262-1-ND	4.55V Supply Monitor/V. Detector	SOT-89	1.05	.88	.70
TL7757IPK	296-3262-2-ND	4.55V Supply Monitor/V. Detector	SOT-89	466.00/1,000		
TL7759CD	296-3263-5-ND	4.55V Supply Monitor	8-SOIC	1.47	1.23	.98
TL7759CP	296-3264-5-ND	4.55V Supply Monitor	8-Dip	1.47	1.23	.98
TL7759CPWR	296-1299-1-ND	4.55V Supply Monitor	8-TSSOP	1.47	1.23	.98
TL7759CPWR	296-1299-2-ND	4.55V Supply Monitor	8-TSSOP	1304.00/2,000		
TL7770-5CDW	296-3265-5-ND	4.55V Dual Supply Monitor	16-SOIC	2.15	1.72	1.29
TL7770-5CN	296-3266-5-ND	4.55V Dual Supply Monitor	16-Dip	2.15	1.72	1.29
TL7770-5IDW	296-3267-5-ND	4.55V Dual Supply Monitor	16-SOIC	2.81	2.25	1.75
TL7770-12CDWR	296-12954-1-ND	Dual Power Supply Supervisor	16-SOIC	2.70	2.16	1.68
TL7770-12CDWR	296-12954-2-ND	Dual Power Supply Supervisor	16-SOIC	3060.00/2,000		
TLC7701ID	296-3268-5-ND	1.1V Supply Monitor	8-SOIC	1.33	1.06	.80
TLC7701IP	296-2608-5-ND	1.1V Supply Monitor	8-Dip	1.33	1.06	.80
TLC7701IPW	296-2609-5-ND	1.1V Supply Monitor	8-TSSOP	1.33	1.06	.80
TLC7701IPWR	296-2609-1-ND	1.1V Supply Monitor	8-TSSOP	1.33	1.06	.80
TLC7701IPWR	296-2609-2-ND	1.1V Supply Monitor	8-TSSOP	1378.00/2,000		
TLC7701QD	296-3270-5-ND	1.1V Supply Monitor	8-SOIC	1.65	1.32	.99
TLC7701QP	296-3271-5-ND	1.1V Supply Monitor	8-Dip	1.65	1.32	.99
TLC7703ID	296-3272-5-ND	2.63V Micropower Supply Voltage Supervisor	8-SOIC	1.73	1.38	1.04
TLC7703IP	296-3273-5-ND	2.63V Micropower Supply Voltage Supervisor	8-Dip	1.73	1.38	1.04
TLC7703IPWR	296-3274-1-ND	2.63V Micropower Supply Voltage Supervisor	8-TSSOP	1.73	1.38	1.04
TLC7703IPWR	296-3274-2-ND	2.63V Micropower Supply Voltage Supervisor	8-TSSOP	1794.00/2,000		
TLC7703QD	296-2610-5-ND	2.63V Micropower Supply Voltage Supervisor	8-SOIC	2.10	1.68	1.26
TLC7703QP	296-13359-5-ND	2.63V Micropower Supply Voltage Supervisor	8-Dip	2.10	1.68	1.26
TLC7705ID	296-1872-5-ND	4.55V Supply Monitor	8-SOIC	1.33	1.06	.80
TLC7705IP	296-3276-5-ND	4.55V Supply Monitor	8-Dip	1.33	1.06	.80
TLC7705IPWR	296-3277-1-ND	4.55V Supply Monitor	8-TSSOP	1.33	1.06	.80
TLC7705IPWR	296-3277-2-ND	4.55V Supply Monitor	8-TSSOP	1378.00/2,000		
TLC7705QD	296-3278-5-ND	4.55V Supply Monitor	8-SOIC	1.65	1.32	.99
TLC7725ID	296-3280-5-ND	2.25V Micropower Supply Voltage Supervisor	8-SOIC	1.73	1.38	1.04
TLC7725QD	296-3281-5-ND	2.25V Micropower Supply Voltage Supervisor	8-SOIC	2.10	1.68	1.26
TLC7725QP	296-13360-5-ND	2.25V Micropower Supply Voltage Supervisor	8-Dip	2.10	1.68	1.26
TLC7725QPWR	296-3283-1-ND	2.25V Micropower Supply Voltage Supervisor	8-TSSOP	2.10	1.68	1.26
TLC7725QPWR	296-3283-2-ND	2.25V Micropower Supply Voltage Supervisor	8-TSSOP	2184.00/2,000		
TLC7725IP	296-2611-5-ND	2.25V Micropower Supply Voltage Supervisor	8-Dip	1.73	1.38	1.04
TLC7733ID	296-2612-5-ND	2.93V Supply Monitor	8-SOIC	1.73	1.38	1.04
TLC7733IP	296-3284-5-ND	2.93V Supply Monitor	8-Dip	1.73	1.38	1.04
TLC7733IPWR	296-3285-1-ND	2.93V Supply Monitor	8-TSSOP	1.73	1.38	1.04
TLC7733IPWR	296-3285-2-ND	2.93V Supply Monitor	8-TSSOP	1794.00/2,000		
TLC7733QD	296-3286-5-ND	2.93V Supply Monitor	8-SOIC	2.10	1.68	1.26
TLC7733QP	296-3287-5-ND	2.93V Supply Monitor	8-Dip	2.10	1.68	1.26
TLC7733QPWR	296-3288-1-ND	2.93V Supply Monitor	8-TSSOP	2.10	1.68	1.26
TLC7733QPWR	296-3288-2-ND	2.93V Supply Monitor	8-TSSOP	2184.00/2,000		
TPS3103E12DBVR	296-13393-1-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.05	1.64	1.23
TPS3103E12DBVR	296-13393-2-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3150.00/3,000		
TPS3103E15DBVR	296-13394-1-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.05	1.64	1.23
TPS3103E15DBVR	296-13394-2-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3150.00/3,000		
TPS3103H20DBVR	296-13395-1-ND	1.84V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.05	1.64	1.23
TPS3103H20DBVR	296-13395-2-ND	1.84V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3150.00/3,000		
TPS3103K33DBVR	296-13396-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.05	1.64	1.23
TPS3103K33DBVR	296-13396-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3150.00/3,000		
TPS3106E09DBVT	296-13397-1-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.08	1.66	1.25
TPS3106E09DBVT	296-13397-2-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	290.50/250		
TPS3106E16DBVR	296-13398-1-ND	1.52V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.05	1.64	1.23
TPS3106E16DBVR	296-13398-2-ND	1.52V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3150.00/3,000		
TPS3106K33DBVR	296-13399-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.05	1.64	1.23
TPS3106K33DBVR	296-13399-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3150.00/3,000		
TPS3110E09DBVR	296-13400-1-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.20	1.76	1.32
TPS3110E09DBVR	296-13400-2-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3378.00/3,000		
TPS3110E12DBVR	296-13401-1-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.20	1.76	1.32
TPS3110E12DBVR	296-13401-2-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3378.00/3,000		
TPS3110E15DBVR	296-13402-1-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.20	1.76	1.32
TPS3110E15DBVR	296-13402-2-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3378.00/3,000		
TPS3110K33DBVT	296-13403-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.23	1.78	1.34
TPS3110K33DBVT	296-13403-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	311.50/250		
TPS3123G15DBVR	296-10890-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3123G15DBVR	296-10890-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2880.00/3,000		
TPS3123G15DBVT	296-3289-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3123G15DBVT	296-3289-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3123J12DBVR	296-10891-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3123J12DBVR	296-10891-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2880.00/3,000		
TPS3123J12DBVT	296-3290-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3123J12DBVT	296-3290-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3123J18DBVR	296-10892-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3123J18DBVR	296-10892-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2880.00/3,000		
TPS3123J18DBVT	296-3291-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3123J18DBVT	296-3291-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3124G15DBVR	296-10893-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3124G15DBVR	296-10893-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2880.00/3,000		
TPS3124G15DBVT	296-3292-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3124G15DBVT	296-3292-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3124J12DBVR	296-10894-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3124J12DBVR	296-10894-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2880.00/3,000		
TPS3124J12DBVT	296-3293-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3124J12DBVT	296-3293-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3124J18DBVR	296-10895-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3124J18DBVR	296-10895-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2880.00/3,000		
TPS3124J18DBVT	296-3294-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3124J18DBVT	296-3294-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3125G15DBVR	296-10896-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3125G15DBVR	296-10896-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2649.60/3,000		
TPS3125G15DBVT	296-2613-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3125G15DBVT	296-2613-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	241.50/250		
TPS3125J12DBVR	296-10897-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3125J12DBVR	296-10897-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2649.60/3,000		
TPS3125J12DBVT	296-2614-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3125J12DBVT	296-2614-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	241.50/250		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TPS3125J18DBVR	296-10898-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3125J18DBVR	296-10898-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2649.60/3,000		
TPS3125J18DBVT	296-2615-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3125J18DBVT	296-2615-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	241.50/250		
TPS3125L30DBVR	296-10899-1-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3125L30DBVR	296-10899-2-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2649.60/3,000		
TPS3125L30DBVT	296-2616-1-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3125L30DBVT	296-2616-2-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	241.50/250		
TPS3126E12DBVT	296-10900-1-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3126E12DBVT	296-10900-2-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	241.50/250		
TPS3126E15DBVT	296-10901-1-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3126E15DBVT	296-10901-2-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	241.50/250		
TPS3126E18DBVT	296-10902-1-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.73	1.38	1.04
TPS3126E18DBVT	296-10902-2-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	241.50/250		
TPS3128E12DBVT	296-10903-1-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3128E12DBVT	296-10903-2-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3128E15DBVT	296-10904-1-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3128E15DBVT	296-10904-2-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3128E18DBVT	296-10905-1-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.88	1.50	1.13
TPS3128E18DBVT	296-10905-2-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	262.50/250		
TPS3305-18D	296-2617-5-ND	Dual 2.93/1.68 Volt Monitor	8-SOIC	2.15	1.72	1.29
TPS3305-18DGNR	296-3299-1-ND	Dual 3.3/1.8 Volt Monitor	8-MSOP	2.15	1.72	1.29
TPS3305-18DGNR	296-3299-2-ND	Dual 3.3/1.8 Volt Monitor	8-MSOP	2752.50/2,500		
TPS3305-25D	296-2618-5-ND	Dual 2.93/2.25 Volt Monitor	8-SOIC	2.15	1.72	1.29
TPS3305-25DGNR	296-3300-1-ND	Dual 3.3/2.5 Volt Monitor	8-MSOP	2.15	1.72	1.29
TPS3305-25DGNR	296-3300-2-ND	Dual 3.3/2.5 Volt Monitor	8-MSOP	2752.50/2,500		
TPS3305-33D	296-2619-5-ND	Dual 4.55/2.93 Volt Monitor	8-SOIC	2.15	1.72	1.29
TPS3305-33DGNR	296-3301-1-ND	Dual 5/3.3 Volt Monitor	8-MSOP	2.15	1.72	1.29
TPS3305-33DGNR	296-3301-2-ND	Dual 5/3.3 Volt Monitor	8-MSOP	2752.50/2,500		
TPS3306-15D	296-3302-5-ND	Dual 3.3/1.5 Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3306-15DGK	296-3303-5-ND	Dual 3.3/1.5 Volt Monitor	8-SOP	2.35	1.88	1.41
TPS3306-18D	296-3304-5-ND	Dual 3.3/1.8 Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3306-18DGK	296-3305-5-ND	Dual 3.3/1.8 Volt Monitor	8-SOP	2.35	1.88	1.41
TPS3306-20D	296-3306-5-ND	Dual 3.3/2 Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3306-20DGK	296-3307-5-ND	Dual 3.3/2 Volt Monitor	8-SOP	2.35	1.88	1.41
TPS3306-25D	296-3308-5-ND	Dual 3.3/2.5 Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3306-25DGK	296-3309-5-ND	Dual 3.3/2.5 Volt Monitor	8-SOP	2.35	1.88	1.41
TPS3306-33D	296-3310-5-ND	Dual 5/3.3 Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3306-33DGK	296-3311-5-ND	Dual 5/3.3 Volt Monitor	8-SOP	2.35	1.88	1.41
TPS3307-18D	296-2620-5-ND	Triple 2.93/1.68/1.25 Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3307-18DGNR	296-3312-1-ND	Triple 3.3/1.8/Adj. Volt Monitor	8-MSOP	2.35	1.88	1.41
TPS3307-18DGNR	296-3312-2-ND	Triple 3.3/1.8/Adj. Volt Monitor	8-MSOP	3007.50/2,500		
TPS3307-25D	296-2621-5-ND	Triple 2.93/2.25/1.25 Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3307-25DGNR	296-3313-1-ND	Triple 3.3/2.5/Adj. Volt Monitor	8-MSOP	2.35	1.88	1.41
TPS3307-25DGNR	296-3313-2-ND	Triple 3.3/2.5/Adj. Volt Monitor	8-MSOP	3007.50/2,500		
TPS3307-33D	296-3314-5-ND	Triple 5/3.3/Adj. Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3307-33DR	296-3314-1-ND	Triple 5/3.3/Adj. Volt Monitor	8-SOIC	2.35	1.88	1.41
TPS3307-33DR	296-3314-2-ND	Triple 5/3.3/Adj. Volt Monitor	8-SOIC	3007.50/2,500		
TPS3307-33DGN	296-3315-5-ND	Triple 5/3.3/Adj. Volt Monitor	8-MSOP	2.35	1.88	1.41
TPS3307-33DGNR	296-3315-1-ND	Triple 5/3.3/Adj. Volt Monitor	8-MSOP	2.35	1.88	1.41
TPS3307-33DGNR	296-3315-2-ND	Triple 5/3.3/Adj. Volt Monitor	8-MSOP	3007.50/2,500		
TPS3510DR	296-3317-1-ND	3.5V Power Supply Monitor	8-SOIC	1.47	1.23	.98
TPS3510DR	296-3317-2-ND	3.5V Power Supply Monitor	8-SOIC	1592.50/2,500		
TPS3510P	296-3318-5-ND	3.5V Power Supply Monitor	8-Dip	1.47	1.23	.98
TPS3513D	296-13404-5-ND	PC Power Supply Supervisor	14-SOIC	1.85	1.48	1.11
TPS3514D	296-13513-5-ND	PC Power Supply Supervisor	14-SOIC	1.85	1.48	1.11
TPS3600D20PW	296-10906-5-ND	2V Battery Backup Supervisor for LP Processors	14-TSSOP	4.59	3.68	2.86
TPS3600D33PW	296-12237-5-ND	3.3V Battery Backup Supervisor for LP Processors	14-TSSOP	4.59	3.68	2.86
TPS3600D33PWR	296-10907-1-ND	3.3V Battery Backup Supervisor for LP Processors	14-TSSOP	4.59	3.68	2.86
TPS3600D33PWR	296-10907-2-ND	3.3V Battery Backup Supervisor for LP Processors	14-TSSOP	5202.00/2,000		
TPS3600D50PW	296-12238-5-ND	5V Battery Backup Supervisor for LP Processors	14-TSSOP	4.59	3.68	2.86
TPS3600D50PWR	296-10908-1-ND	5V Battery Backup Supervisor for LP Processors	14-TSSOP	4.59	3.68	2.86
TPS3606-33DGS	296-10909-5-ND	3.3V Battery Backup Supervisor for LP Processors	10-MSOP	3.60	2.88	2.24
TPS3610T50PW	296-10910-5-ND	5V Battery Backup Supervisor for RAM Retention	14-TSSOP	4.19	3.35	2.61
TPS3610U18PW	296-12239-5-ND	1.8V Battery Backup Supervisor for RAM Retention	14-TSSOP	4.19	3.35	2.61
TPS3613-01DGS	296-10912-5-ND	Adj. Battery Backup Supervisor for RAM Retention	10-MSOP	3.24	2.60	2.02
TPS3617-50DGK	296-10913-5-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.70	2.16	1.68
TPS3619-33DGK	296-12141-5-ND	3.3V Battery Backup Supervisor for RAM Retention	8-MSOP	2.25	1.80	1.40
TPS3619-50DGK	296-12142-5-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.25	1.80	1.40
TPS3705-30D	296-2622-5-ND	2.63V Supply Monitor	8-SOIC	1.73	1.38	1.04
TPS3705-30DGN	296-3316-5-ND	2.63V Supply Monitor	8-MSOP	1.73	1.38	1.04
TPS3705-33D	296-2623-5-ND	2.93V Supply Monitor	8-SOIC	1.73	1.38	1.04

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TPS3705-33DGNR	296-3319-1-ND	2.93V Supply Monitor	8-MSOP	1.73	1.38	1.04
TPS3705-33DGNR	296-3319-2-ND	2.93V Supply Monitor	8-MSOP	2207.50/2,500		
TPS3705-50D	296-2624-5-ND	4.55V Supply Monitor	8-SOIC	1.73	1.38	1.04
TPS3705-50DGNR	296-3320-1-ND	4.55V Supply Monitor	8-MSOP	1.73	1.38	1.04
TPS3705-50DGNR	296-3320-2-ND	4.55V Supply Monitor	8-MSOP	2207.50/2,500		
TPS3707-25D	296-2625-5-ND	2.25V Supply Monitor	8-SOIC	1.63	1.30	.98
TPS3707-25DGNR	296-3321-1-ND	2.25V Supply Monitor	8-MSOP	1.63	1.30	.98
TPS3707-25DGNR	296-3321-2-ND	2.25V Supply Monitor	8-MSOP	2080.00/2,500		
TPS3707-30D	296-2626-5-ND	2.63V Supply Monitor	8-SOIC	1.63	1.30	.98
TPS3707-30DGN	296-3322-5-ND	2.63V Supply Monitor	8-MSOP	1.63	1.30	.98
TPS3707-33D	296-2627-5-ND	2.93V Supply Monitor	8-SOIC	1.63	1.30	.98
TPS3707-33DGN	296-3323-5-ND	2.93V Supply Monitor	8-MSOP	1.63	1.30	.98
TPS3707-50D	296-2628-5-ND	4.55V Supply Monitor	8-SOIC	1.63	1.30	.98
TPS3707-50DGNR	296-3324-1-ND	4.55V Supply Monitor	8-MSOP	1.63	1.30	.98
TPS3707-50DGNR	296-3324-2-ND	4.55V Supply Monitor	8-MSOP	2080.00/2,500		
TPS3800G27DCKR	296-12382-1-ND	Ultra-Small Supply Volt. Supervisor	SOT-323-5	1.35	1.13	.90
TPS3800G27DCKR	296-12382-2-ND	Ultra-Small Supply Volt. Supervisor	SOT-323-5	1755.00/3,000		
TPS3801-01DCKR	296-12383-1-ND	Ultra-Small Supply Volt. Supervisor	SOT-323-5	1.35	1.13	.90
TPS3801-01DCKR	296-12383-2-ND	Ultra-Small Supply Volt. Supervisor	SOT-323-5	1755.00/3,000		
TPS3801E18DCKR	296-12384-1-ND	Ultra-Small Supply Volt. Supervisor	SOT-323-5	1.35	1.13	.90
TPS3801E18DCKR	296-12384-2-ND	Ultra-Small Supply Volt. Supervisor	SOT-323-5	1755.00/3,000		
TPS3801I50DCKR	296-3325-1-ND	4.55V Supply Monitor	SOT-323-5	1.35	1.13	.90
TPS3801I50DCKR	296-3325-2-ND	4.55V Supply Monitor	SOT-323-5	1755.00/3,000		
TPS3801J25DCKR	296-3326-1-ND	2.25V Supply Monitor	SOT-323-5	1.35	1.13	.90
TPS3801J25DCKR	296-3326-2-ND	2.25V Supply Monitor	SOT-323-5	1755.00/3,000		
TPS3801K33DCKR	296-3327-1-ND	2.93V Supply Monitor	SOT-323-5	1.35	1.13	.90
TPS3801K33DCKR	296-3327-2-ND	2.93V Supply Monitor	SOT-323-5	1755.00/3,000		
TPS3801L30DCKR	296-3328-1-ND	2.64V Supply Monitor	SOT-323-5	1.35	1.13	.90
TPS3801L30DCKR	296-3328-2-ND	2.64V Supply Monitor	SOT-323-5	1755.00/3,000		
TPS3801T50DCKR	296-12385-1-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1.35	1.13	.90
TPS3801T50DCKR	296-12385-2-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1755.00/3,000		
TPS3802K33DCKR	296-12386-1-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1.35	1.13	.90
TPS3802K33DCKR	296-12386-2-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1755.00/3,000		
TPS3802L30DCKR	296-13514-1-ND	Ultra-Small Supply Voltage Supervisor	SOT323-5	1.35	1.13	.90
TPS3802L30DCKR	296-13514-2-ND	Ultra-Small Supply Voltage Supervisor	SOT323-5	1755.00/3,000		
TPS3803-01DCKR	296-13405-1-ND	Adj./1.5V Voltage Detector	SC70-5	.78	.65	.52
TPS3803-01DCKR	296-13405-2-ND	Adj./1.5V Voltage Detector	SC70-5	1014.00/3,000		
TPS3803G15DCKR	296-13406-1-ND	Adj./1.5V Voltage Detector	SC70-5	.78	.65	.52
TPS3803G15DCKR	296-13406-2-ND	Adj./1.5V Voltage Detector	SC70-5	1014.00/3,000		
TPS3805H33DCKR	296-13407-1-ND	Dual, Adj./3.3V Volt. Detector	SC70-5	.90	.75	.60
TPS3805H33DCKR	296-13407-2-ND	Dual, Adj./3.3V Volt. Detector	SC70-5	1170.00/3,000		
TPS3806I33DBVR	296-12011-1-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1.33	1.06	.80
TPS3806I33DBVR	296-12011-2-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	2035.20/3,000		
TPS3806J20DBVR	296-12012-1-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1.33	1.06	.80
TPS3806J20DBVR	296-12012-2-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	2034.00/3,000		
TPS3809I50DBVR	296-10914-1-ND	4.55V Supply Volt. Supervisor	SOT-23	.78	.65	.52
TPS3809I50DBVR	296-10914-2-ND	4.55V Supply Volt. Supervisor	SOT-23	1014.00/3,000		
TPS3809I50DBVT	296-2629-1-ND	4.55V Supply Volt. Supervisor	SOT-23	.78	.65	.52
TPS3809I50DBVT	296-2629-2-ND	4.55V Supply Volt. Supervisor	SOT-23	97.50/250		
TPS3809J25DBVR	296-10915-1-ND	2.25V Supply Volt. Supervisor	SOT-23	.78	.65	.52
TPS3809J25DBVR	296-10915-2-ND	2.25V Supply Volt. Supervisor	SOT-23	1014.00/3,000		
TPS3809J25DBVT	296-2630-1-ND	2.25V Supply Volt. Supervisor	SOT-23	.78	.65	.52
TPS3809J25DBVT	296-2630-2-ND	2.25V Supply Volt. Supervisor	SOT-23	97.50/250		
TPS3809K33DBVR	296-10916-1-ND	2.93V Supply Volt. Supervisor	SOT-23	.78	.65	.52
TPS3809K33DBVR	296-10916-2-ND	2.93V Supply Volt. Supervisor	SOT-23	1014.00/3,000		
TPS3809K33DBVT	296-2631-1-ND	2.93V Supply Volt. Supervisor	SOT-23	.78	.65	.52
TPS3809K33DBVT	296-2631-2-ND	2.93V Supply Volt. Supervisor	SOT-23	97.50/250		
TPS3809L30DBVR	296-10917-1-ND	2.64V Supply Volt. Supervisor	SOT-23	.78	.65	.52
TPS3809L30DBVR	296-10917-2-ND	2.64V Supply Volt. Supervisor	SOT-23	1014.00/3,000		
TPS3809L30DBVT	296-2632-1-ND	2.64V Supply Volt. Supervisor	SOT-23	.78	.65	.52
TPS3809L30DBVT	296-2632-2-ND	2.64V Supply Volt. Supervisor	SOT-23	97.50/250		
TPS3813I50DBVT	296-10918-1-ND	5V Supervisor with Programmable Watchdog Window	SOT-23-6	1.98	1.58	1.19
TPS3813I50DBVT	296-10918-2-ND	5V Supervisor with Programmable Watchdog Window	SOT-23-6	276.50/250		
TPS3813J25DBVT	296-10919-1-ND	2.5V Supervisor with Programmable Watchdog Window	SOT-23-6	1.98	1.58	1.19
TPS3813J25DBVT	296-10919-2-ND	2.5V Supervisor with Programmable Watchdog Window	SOT-23-6	276.50/250		
TPS3813K33DBVT	296-10920-1-ND	3.3V Supervisor with Programmable Watchdog Window	SOT-23-6	1.98	1.58	1.19
TPS3813K33DBVT	296-10920-2-ND	3.3V Supervisor with Programmable Watchdog Window	SOT-23-6	276.50/250		
TPS3813L30DBVT	296-10921-1-ND	3.0V Supervisor with Programmable Watchdog Window	SOT-23-6	1.98	1.58	1.19
TPS3813L30DBVT	296-10921-2-ND	3.0V Supervisor with Programmable Watchdog Window	SOT-23-6	276.50/250		
TPS3820-33DBVT	296-2633-1-ND	2.93V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3820-33DBVT	296-2633-2-ND	2.93V Supply Monitor	SOT-23-5	189.00/250		
TPS3820-50DBVT	296-2635-1-ND	4.55V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3820-50DBVT	296-2635-2-ND	4.55V Supply Monitor	SOT-23-5	189.00/250		
TPS3823-25DBVR	296-3333-1-ND	2.25V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3823-25DBVR	296-3333-2-ND	2.25V Supply Monitor	SOT-23-5	2073.00/3,000		
TPS3823-30DBVR	296-3334-1-ND	2.63V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3823-30DBVR	296-3334-2-ND	2.63V Supply Monitor	SOT-23-5	2073.00/3,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS3823-33DBVR	296-1357-1-ND	2.93V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3823-33DBVR	296-1357-2-ND	2.93V Supply Monitor	SOT-23-5	2073.00/3,000		
TPS3823-50DBVR	296-3335-1-ND	4.55V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3823-50DBVR	296-3335-2-ND	4.55V Supply Monitor	SOT-23-5	2073.00/3,000		
TPS3823-50DBVT	296-10922-1-ND	4.55V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3823-50DBVT	296-10922-2-ND	4.55V Supply Monitor	SOT-23-5	189.00/250		
TPS3824-25DBVR	296-3336-1-ND	2.25V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3824-25DBVR	296-3336-2-ND	2.25V Supply Monitor	SOT-23-5	2073.00/3,000		
TPS3824-30DBVR	296-3337-1-ND	2.63V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3824-30DBVR	296-3337-2-ND	2.63V Supply Monitor	SOT-23-5	2073.00/3,000		
TPS3824-33DBVR	296-3338-1-ND	2.93V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3824-33DBVR	296-3338-2-ND	2.93V Supply Monitor	SOT-23-5	2073.00/3,000		
TPS3824-50DBVR	296-1358-1-ND	4.55V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3824-50DBVR	296-1358-2-ND	4.55V Supply Monitor	SOT-23-5	2073.00/3,000		
TPS3825-33DBVT	296-2636-1-ND	2.93V Supply Monitor	SOT-23-5	1.44	1.20	.96
TPS3825-33DBVT	296-2636-2-ND	2.93V Supply Monitor	SOT-23-5	180.00/250		
TPS3825-50DBVT	296-2637-1-ND	4.55V Supply Monitor	SOT-23-5	1.44	1.20	.96
TPS3825-50DBVT	296-2637-2-ND	4.55V Supply Monitor	SOT-23-5	180.00/250		
TPS3828-33DBVT	296-2638-1-ND	2.93V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3828-33DBVT	296-2638-2-ND	2.93V Supply Monitor	SOT-23-5	189.00/250		
TPS3828-50DBVT	296-2639-1-ND	4.55V Supply Monitor	SOT-23-5	1.35	1.08	.81
TPS3828-50DBVT	296-2639-2-ND	4.55V Supply Monitor	SOT-23-5	189.00/250		
TPS3836E18DBVT	296-3339-1-ND	1.71V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3836E18DBVT	296-3339-2-ND	1.71V Low Current Monitor	SOT-23-5	266.00/250		
TPS3836H30DBVT	296-13003-1-ND	2.79V Low Current Monitor	SOT-23-5	1.88	1.50	1.13
TPS3836H30DBVT	296-13003-2-ND	2.79V Low Current Monitor	SOT-23-5	262.50/250		
TPS3836K33DBVT	296-3341-2-ND	2.93V Low Current Monitor	SOT-23-5	266.00/250		
TPS3836J25DBVT	296-3340-1-ND	2.25V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3836J25DBVT	296-3340-2-ND	2.25V Low Current Monitor	SOT-23-5	266.00/250		
TPS3836L30DBVT	296-3342-1-ND	2.64V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3836L30DBVT	296-3342-2-ND	2.64V Low Current Monitor	SOT-23-5	266.00/250		
TPS3837E18DBVT	296-3343-1-ND	1.71V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3837E18DBVT	296-3343-2-ND	1.71V Low Current Monitor	SOT-23-5	266.00/250		
TPS3837J25DBVT	296-3344-2-ND	2.25V Low Current Monitor	SOT-23-5	266.00/250		
TPS3837K33DBVT	296-3345-1-ND	2.93V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3837K33DBVT	296-3345-2-ND	2.93V Low Current Monitor	SOT-23-5	266.00/250		
TPS3837L30DBVT	296-3346-1-ND	2.64V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3837L30DBVT	296-3346-2-ND	2.64V Low Current Monitor	SOT-23-5	266.00/250		
TPS3838E18DBVT	296-3347-1-ND	1.71V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3838E18DBVT	296-3347-2-ND	1.71V Low Current Monitor	SOT-23-5	266.00/250		
TPS3838J25DBVT	296-3348-1-ND	2.25V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3838J25DBVT	296-3348-2-ND	2.25V Low Current Monitor	SOT-23-5	266.00/250		
TPS3838K33DBVT	296-3349-1-ND	2.93V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3838K33DBVT	296-3349-2-ND	2.93V Low Current Monitor	SOT-23-5	266.00/250		
TPS3838L30DBVT	296-3350-1-ND	2.64V Low Current Monitor	SOT-23-5	1.90	1.52	1.14
TPS3838L30DBVT	296-3350-2-ND	2.64V Low Current Monitor	SOT-23-5	266.00/250		
UC2903DW	296-2640-5-ND	Quad Voltage Supply Monitor	18-SOIC	5.04	4.04	3.14
UC3543DW	296-3357-5-ND	2.5V Power Supply Monitor	16-SOIC	4.64	3.71	2.89
UC3543N	296-3358-5-ND	2.5V Power Supply Monitor	16-Dip	4.64	3.71	2.89
UC3544N	296-3359-5-ND	2.5V Power Supply Monitor	18-Dip	3.08	2.47	1.92
UC3903DW	296-2642-5-ND	Quad Voltage Supply Monitor	18-SOIC	4.28	3.42	2.66
UC3910D	296-2644-5-ND	4-Bit D/A Converter and Voltage Monitor	16-SOIC	5.14	4.12	3.47
UC39432D	296-11350-5-ND	Precision Analog Controller	8-SOIC	4.97	3.98	3.10
UC39432N	296-11351-5-ND	Precision Analog Controller	8-Dip	4.97	3.98	3.10
UCC2946D	296-2645-5-ND	Microprocessor Supervisor with Watch Dog Timer	8-SOIC	2.79	2.24	1.74
UCC3946D	296-2646-5-ND	Microprocessor Supervisor with Watch Dog Timer	8-SOIC	2.72	2.18	1.70

MOSFET / MOSFET Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN75372D	296-3360-5-ND	Dual MOSFET Driver	8-SOIC	1.60	1.28	.96
SN75372P	296-3361-5-ND	Dual MOSFET Driver	8-Dip	1.60	1.28	.96
SN75374D	296-3362-5-ND	Quad MOSFET Driver	16-SOIC	2.48	1.98	1.54
TPS1100D	296-3379-5-ND	P-Channel MOSFET, Rise Time 10nS	8-SOIC	1.29	1.08	.86
TPS1100PWR	296-13383-1-ND	Single P-Channel Enhancement Mode MOSFETs	8-TSSOP	1.29	1.08	.86
TPS1100PWR	296-13383-2-ND	Single P-Channel Enhancement Mode MOSFETs	8-TSSOP	1144.00/2,000		
TPS1101D	296-3381-5-ND	P-Channel MOSFET, Rise Time 5.5nS.	8-SOIC	1.60	1.28	.96
TPS1101PWR	296-13384-1-ND	Single P-Channel Enhancement Mode MOSFETs	16-TSSOP	1.60	1.28	.96
TPS1101PWR	296-13384-2-ND	Single P-Channel Enhancement Mode MOSFETs	16-TSSOP	1664.00/2,000		
TPS1120D	296-1352-5-ND	Dual P-Channel MOSFET	8-SOIC	1.50	1.20	.90
TPS1120DR	296-1352-1-ND	Dual P-Channel MOSFET	8-SOIC	1.50	1.20	.90
TPS1120DR	296-1352-2-ND	Dual P-Channel MOSFET	8-SOIC	1920.00/2,500		
TPS2811D	296-2385-5-ND	Dual 2A Invert MOSFET Driver	8-SOIC	1.83	1.46	1.10
TPS2811P	296-3363-5-ND	Dual 2A High Speed Invert MOSFET Driver	8-Dip	1.83	1.46	1.10
TPS2812D	296-3364-5-ND	Dual 2A High Speed Non-Invert FET Driver	8-SOIC	1.83	1.46	1.10
TPS2812P	296-3365-5-ND	Dual 2A High Speed Non-Invert FET Driver	8-Dip	1.83	1.46	1.10
TPS2813D	296-1356-5-ND	Dual 2A High Speed Complementary MOSFET Driver	8-SOIC	1.83	1.46	1.10
TPS2813DR	296-1356-1-ND	Dual 2A Complementary MOSFET Driver	8-SOIC	1.83	1.46	1.10
TPS2813DR	296-1356-2-ND	Dual 2A Complementary MOSFET Driver	8-SOIC	2335.00/2,500		
TPS2813P	296-2386-5-ND	Dual 2A Complementary MOSFET Driver	8-Dip	1.83	1.46	1.10
TPS2813PWR	296-3367-1-ND	Dual 2A Complementary MOSFET Driver	8-TSSOP	1.83	1.46	1.10
TPS2813PWR	296-3367-2-ND	Dual 2A Complementary MOSFET Driver	8-TSSOP	1898.00/2,000		
TPS2814D	296-3368-5-ND	Dual 2A High Speed MOSFET Driver	8-SOIC	1.83	1.46	1.10
TPS2814P	296-2387-5-ND	Dual 2A MOSFET Driver	8-Dip	1.83	1.46	1.10
TPS2814PWR	296-3369-1-ND	Dual 2A MOSFET Driver	8-TSSOP	1.83	1.46	1.10
TPS2814PWR	296-3369-2-ND	Dual 2A MOSFET Driver	8-TSSOP	1898.00/2,000		
TPS2815D	296-2388-5-ND	Dual 2A NAND MOSFET Driver	8-SOIC	1.83	1.46	1.10
TPS2815P	296-3370-5-ND	Dual 2A High Speed NAND MOSFET Driver	8-Dip	1.83	1.46	1.10
TPS2816DBVR	296-3371-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1.28	1.02	.77
TPS2816DBVR	296-3371-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1959.00/3,000		
TPS2817DBVR	296-3372-1-ND	2A HS Non-Inverting MOSFET Driver	SOT-23-5	1.28	1.02	.77
TPS2817DBVR	296-3372-2-ND	2A HS Non-Inverting MOSFET Driver	SOT-23-5	1959.00/3,000		
TPS2818DBVR	296-3373-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1.28	1.02	.77
TPS2818DBVR	296-3373-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1959.00/3,000		
TPS2819DBVR	296-3374-1-ND	2A HS Non-Inverting MOSFET Driver	SOT-23-5	1.28	1.02	.77
TPS2819DBVR	296-3374-2-ND	2A HS Non-Inverting MOSFET Driver	SOT-23-5	1959.00/3,000		
TPS2828DBVR	296-1986-1-ND	2A High Speed Inverting MOSFET Driver	SOT-23-5	1.44	1.20	.96
TPS2828DBVR	296-1986-2-ND	2A High Speed Inverting MOSFET Driver	SOT-23-5	1872.00/3,000		
TPS2829DBVR	296-1987-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	1.44	1.20	.96
TPS2829DBVR	296-1987-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	1872.00/3,000		
TPS2830D	296-2390-5-ND	Non-Inverting Fast Sync BUCK FET Driver	14-SOIC	2.63	2.11	1.64
TPS2830PWP	296-3376-5-ND	Non-Inverting Fast Sync BUCK MOSFET Driver	14-HTSSOP	2.63	2.11	1.64
TPS2831D	296-2391-5-ND	Invert Fast Sync BUCK MOSFET Driver	14-SOIC	2.63	2.11	1.64
TPS2831PWP	296-3377-5-ND	Invert Fast Sync BUCK MOSFET Driver	14-HTSSOP	2.63	2.11	1.64
TPS2832D	296-2392-5-ND	Non-Invert Fast Sync BUCK FET Driver	8-SOIC	2.50	2.00	1.56
TPS2833D	296-2393-5-ND	Invert Fast Sync BUCK MOSFET Driver	8-SOIC	2.50	2.00	1.56
TPS2834D	296-2394-5-ND	Non-Invert Fast Sync BUCK FET Driver	14-SOIC	2.63	2.11	1.64
TPS2834PWP	296-3378-5-ND	Non-Invert Fast Sync BUCK MOSFET Driver	14-HTSSOP	2.63	2.11	1.64
TPS2835D	296-2395-5-ND	Invert Fast Sync BUCK MOSFET Driver	14-SOIC	2.63	2.11	1.64
TPS2835PWP	296-10885-5-ND	Invert Fast Sync BUCK MOSFET Driver	14-HTSSOP	2.63	2.11	1.64
TPS2836D	296-2396-5-ND	Non-Invert Fast Sync BUCK FET Driver	8-SOIC	2.50	2.00	1.56
TPS2838PWP	296-10886-5-ND	Non-Inverting Fast Sync BUCK MOSFET Driver	16-HTSSOP	2.93	2.34	1.82
TPS2839PWP	296-10887-5-ND	Inverting Fast Sync BUCK MOSFET Driver	16-HTSSOP	2.93	2.34	1.82
TPS2848PWP	296-10888-5-ND	MOSFET Driver with Regulator	14-HTSSOP	2.79	2.24	1.74
TPS2849PWP	296-10889-5-ND	MOSFET Driver with Regulator	14-HTSSOP	2.79	2.24	1.74
TPS2837D	296-2397-5-ND	Invert Fast Sync BUCK MOSFET Driver	8-SOIC	2.50	2.00	1.56
UC2709DW	296-2398-5-ND	Dual High Speed MOSFET Driver	16-SOIC	7.66	6.13	5.18
UC2710N	296-2399-5-ND	High Current MOSFET Driver	8-Dip	6.66	5.33	4.50
UC2714D	296-12113-5-ND	Complimentary Switch FET Driver with Aux Out	8-SOIC	2.15	1.72	1.29
UC2714N	296-12171-5-ND	Complimentary Switch FET Driver with Aux Out	8-Dip	2.15	1.72	1.29
UC2715D	296-12172-5-ND	Complimentary Switch FET Driver with Aux Out	8-SOIC	2.15	1.72	1.29
UC2715DP	296-12173-5-ND	Complimentary Switch FET Driver with Aux Out	16-SOIC	2.15	1.72	1.29
UC2715N	296-12174-5-ND	Complimentary Switch FET Driver with Aux Out	8-Dip	2.15	1.72	1.29
UC3706N	296-11242-5-ND	Dual High Speed MOSFET Driver	16-Dip	4.64	3.71	2.89
UC3709DW	296-2400-5-ND	Dual High Speed MOSFET Driver	16-SOIC	5.22	4.18	3.53
UC3709N	296-11245-5-ND	Dual High Speed MOSFET Driver	8-Dip	5.22	4.18	3.53
UC3710DW	296-2401-5-ND	Complimentary High Current MOSFET Driver	16-SOP	5.78	4.63	3.91
UC3710N	296-11246-5-ND	High-Current MOSFET Driver	8-Dip	5.78	4.63	3.91
UC3710T	296-11247-5-ND	High-Current MOSFET Driver	TO-220-5	5.78	4.63	3.91
UC3714D	296-11253-5-ND	High-Current MOSFET Driver	8-SOIC	2.03	1.62	1.22
UC3714DP	296-11254-5-ND	High-Current MOSFET Driver	16-SOP	2.03	1.62	1.22
UC3714N	296-11255-5-ND	High-Current MOSFET Driver	8-Dip	2.03	1.62	1.22
UC3715D	296-11256-5-ND	High-Current MOSFET Driver	8-SOIC	2.03	1.62	1.22
UC3715DP	296-11668-5-ND	Complimentary Switch MOSFET Driver with Aux Out	16-SOIC	2.03	1.62	1.22
UC3715N	296-11257-5-ND	High-Current MOSFET Driver	8-SOP	2.03	1.62	1.22
UCC2837D	296-2403-5-ND	N-FET Linear Regulating Controller	8-SOIC	5.36	4.29	3.34
UCC27321D	296-13670-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.32	1.86	1.45
UCC27321DGN	296-13671-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.54	2.04	1.59
UCC27321P	296-13672-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.32	1.86	1.45
UCC27322D	296-13673-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.32	1.86	1.45
UCC27322DGN	296-13674-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.54	2.04	1.59
UCC27322P	296-13675-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.32	1.86	1.45
UCC27323D	296-12528-5-ND	4A HS Dual MOSFET Driver	8-SOIC	2.32	1.86	1.45
UCC27323DGN	296-12529-5-ND	4A HS Dual MOSFET Driver	8-MSOP	2.54	2.04	1.59
UCC27323P	296-12530-5-ND	4A HS Dual MOSFET Driver	8-Dip	2.32	1.86	1.45
UCC27324D	296-12531-5-ND	4A HS Dual MOSFET Driver	8-SOIC	2.32	1.86	1.45
UCC27324DGN	296-12532-5-ND	4A HS Dual MOSFET Driver	8-MSOP	2.54	2.04	1.59
UCC27324P	296-12533-5-ND	4A HS Dual MOSFET Driver	8-Dip	2.32	1.86	1.45
UCC27325D	296-12534-5-ND	4A HS Dual MOSFET Driver	8-SOIC	2.32	1.86	1.45
UCC27325DGN	296-12535-5-ND	4A HS Dual MOSFET Driver	8-MSOP	2.54	2.04	1.59
UCC27325P	296-12536-5-ND	4A HS Dual MOSFET Driver	8-Dip	2.32	1.86	1.45
UCC37321D	296-13684-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.35	1.88	1.41
UCC37321DGN	296-13685-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.32	1.86	1.45
UCC37321P	296-13686-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.35	1.88	1.41
UCC37322D	296-13687-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.35	1.88	1.41
UCC37322DGN	296-13688-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.32	1.86	1.45

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC37322P	296-13689-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.35	1.88	1.41

Power Distribution Switches

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2010AD	296-2555-5-ND	0.4A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.68	1.34	1.01
TPS2010APWP	296-3384-5-ND	0.4A, 2.7-5.5V High-Side MOSFET Switch	14-HTSSOP	1.68	1.34	1.01
TPS2010PWR	296-3385-1-ND	0.4A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2.13	1.70	1.28
TPS2010PWR	296-3385-2-ND	0.4A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2210.00/2,000		
TPS2011AD	296-2556-5-ND	1.2A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.68	1.34	1.01
TPS2011APWP	296-13804-5-ND	1.2A, 2.7-5.5V High-Side MOSFET Switch	8-HTSSOP	1.68	1.34	1.01
TPS2011D	296-3386-5-ND	1.2A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2012AD	296-2557-5-ND	2.0A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.68	1.34	1.01
TPS2012D	296-1957-5-ND	2.0A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2013AD	296-2558-5-ND	2.6A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.68	1.34	1.01
TPS2013D	296-1353-5-ND	2.6A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2013DR	296-1353-1-ND	2.6A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2013DR	296-1353-2-ND	2.6A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2720.00/2,500		
TPS2013PWR	296-3388-1-ND	2.6A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2.13	1.70	1.28
TPS2013PWR	296-3388-2-ND	2.6A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2210.00/2,000		
TPS2014D	296-1354-5-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-SOIC	4.23	3.39	2.64
TPS2014DR	296-1354-1-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-SOIC	4.23	3.39	2.64
TPS2014DR	296-1354-2-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-SOIC	5922.50/2,500		
TPS2014P	296-3389-5-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-Dip	4.23	3.39	2.64
TPS2015D	296-1355-5-ND	1.1A, 4-5.5V High-Side MOSFET Switch	8-SOIC	4.23	3.39	2.64
TPS2015DR	296-1355-1-ND	1.1A, 4-5.5V High-Side MOSFET Switch	8-SOIC	4.23	3.39	2.64
TPS2015DR	296-1355-2-ND	1.1A, 4-5.5V High-Side MOSFET Switch	8-SOIC	5922.50/2,500		
TPS2015P	296-3390-5-ND	1.1A, 4-5.5V High-Side MOSFET Switch	8-Dip	4.23	3.39	2.64
TPS2020D	296-2560-5-ND	0.22A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2021D	296-2561-5-ND	0.66A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2022D	296-2562-5-ND	1.1A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2023D	296-2563-5-ND	1.65A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2023P	296-12233-5-ND	1.65A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.35	1.88	1.41
TPS2024D	296-2564-5-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2024DR	296-2564-1-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2024DR	296-2564-2-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	3007.50/2,500		
TPS2024P	296-12234-5-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.35	1.88	1.41
TPS2030D	296-2565-5-ND	0.22A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2030P	296-3392-5-ND	0.22A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.35	1.88	1.41
TPS2031D	296-2566-5-ND	0.66A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2032D	296-2567-5-ND	1.1A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2033D	296-2568-5-ND	1.65A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2033P	296-12235-5-ND	1.65A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.35	1.88	1.41
TPS2034D	296-2569-5-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.35	1.88	1.41
TPS2034P	296-12236-5-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.35	1.88	1.41
TPS2041AD	296-3393-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.25	1.00	.75
TPS2041D	296-3394-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.18	1.74	1.31
TPS2041P	296-2570-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.18	1.74	1.31
TPS2042AD	296-3395-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.70	1.36	1.02
TPS2042D	296-3396-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2042DR	296-3396-1-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2042DR	296-3396-2-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	3212.50/2,500		
TPS2042P	296-2571-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.30	1.84	1.43
TPS2043AD	296-3397-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.10	1.68	1.26
TPS2043D	296-2572-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.08	2.47	1.92
TPS2043DR	296-2572-1-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.08	2.47	1.92
TPS2043DR	296-2572-2-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4315.00/2,500		
TPS2044AD	296-3399-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.43	1.94	1.46
TPS2044D	296-1959-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.89	3.12	2.43
TPS2045AD	296-3400-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.25	1.00	.75
TPS2045D	296-2573-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.18	1.74	1.31
TPS2045DR	296-2573-1-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.18	1.74	1.31
TPS2045DR	296-2573-2-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2785.00/2,500		
TPS2045P	296-3402-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.18	1.74	1.31
TPS2046AD	296-3403-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.70	1.36	1.02
TPS2046D	296-2574-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2046DR	296-2574-1-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2046DR	296-2574-2-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	3212.50/2,500		
TPS2046P	296-3405-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.30	1.84	1.43
TPS2047AD	296-3406-5-ND	Triple (2in/3out), 0.345A,2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.10	1.68	1.26
TPS2047D	296-2575-5-ND	Triple (2in/3out), 0.345A,2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.33	2.67	2.08
TPS2047DR	296-2575-1-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.33	2.67	2.08
TPS2047DR	296-2575-2-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4662.50/2,500		
TPS2048AD	296-3408-5-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.43	1.94	1.46
TPS2048DR	296-3409-1-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4.21	3.37	2.62
TPS2048DR	296-3409-2-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	5890.00/2,500		
TPS2051AD	296-3410-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.25	1.00	.75
TPS2051D	296-2576-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.18	1.74	1.31
TPS2051P	296-3411-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.18	1.74	1.31
TPS2052AD	296-3412-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.70	1.36	1.02
TPS2052D	296-2577-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2052DR	296-2577-1-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2052DR	296-2577-2-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	3212.50/2,500		
TPS2052P	296-3414-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.30	1.84	1.43
TPS2053AD	296-3415-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.10	1.68	1.26
TPS2053D	296-2578-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.08	2.47	1.92
TPS2053DR	296-2578-1-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.08	2.47	1.92
TPS2053DR	296-2578-2-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4315.00/2,500		
TPS2054AD	296-3417-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.43	1.94	1.46
TPS2054D	296-1960-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.89	3.12	2.43
TPS2055AD	296-3418-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.25	1.00	.75
TPS2055D	296-2579-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.18	1.74	1.31
TPS2055DR	296-2579-1-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.18	1.74	1.31
TPS2055DR	296-2579-2-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2785.00/2,500		
TPS2055P	296-3420-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.18	1.74	1.31
TPS2056AD	296-3421-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.70	1.36	1.02
TPS2056D	296-2580-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2056DR	296-2580-1-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2056DR	296-2580-2-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	3212.50/2,500		
TPS2057AD	296-3423-5-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.10	1.68	1.26
TPS2057D	296-2581-5-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.08	2.47	1.92
TPS2057DR	296-2581-1-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.08	2.47	1.92
TPS2057DR	296-2581-2-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4315.00/2,500		
TPS2058AD	296-3425-5-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.43	1.94	1.46
TPS2058D	296-2582-5-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.89	3.12	2.43
TPS2058DR	296-2582-1-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.89	3.12	2.43
TPS2058DR	296-2582-2-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	5450.00/2,500		
TPS2070DAP	296-3427-5-ND	Dual PCMCIA Power I/F Switch, Act. Low	32-TSSOP	5.18	4.14	3.22

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2071DAP	296-3428-5-ND	Dual PCMCIA Power I/F Switch, Act. High	32-TSSOP	5.18	4.14	3.22
TPS2074DB	296-3429-5-ND	USB Hub Power Cont., Act. Low	24-SOP	5.20	4.16	3.24
TPS2075DB	296-3430-5-ND	USB Hub Power Cont., Act. High	24-SOP	5.20	4.16	3.24
TPS2080D	296-3431-5-ND	Dual (2in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. High	8-SOIC	1.45	1.16	.87
TPS2081D	296-3432-5-ND	Dual (2in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.45	1.16	.87
TPS2082D	296-3433-5-ND	Dual (2in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.45	1.16	.87
TPS2085D	296-3434-5-ND	Quad (4in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. High	16-SOIC	2.38	1.90	1.43
TPS2086D	296-3435-5-ND	Quad (4in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.38	1.90	1.43
TPS2087D	296-3436-5-ND	Quad (4in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.38	1.90	1.43
TPS2090D	296-3437-5-ND	Dual (2in/2out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. High	8-SOIC	1.45	1.16	.87
TPS2091D	296-3438-5-ND	Dual (2in/2out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.45	1.16	.87
TPS2092D	296-3439-5-ND	Dual (2in/2out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.45	1.16	.87
TPS2095D	296-3440-5-ND	Quad (4in/4out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. High	16-SOIC	2.38	1.90	1.43
TPS2096D	296-3441-5-ND	Quad (4in/4out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.38	1.90	1.43
TPS2097D	296-3442-5-ND	Quad (4in/4out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.38	1.90	1.43
TPS2100D	296-2583-5-ND	VAUX Power Distribution Switch	8-SOIC	1.40	1.12	.84
TPS2100DBVR	296-10878-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.40	1.12	.84
TPS2100DBVR	296-10878-2-ND	VAUX Power Distribution Switch	SOT-23-5	2150.40/3,000		
TPS2100DBVT	296-2584-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.40	1.12	.84
TPS2100DBVT	296-2584-2-ND	VAUX Power Distribution Switch	SOT-23-5	196.00/250		
TPS2101D	296-2585-5-ND	VAUX Power Distribution Switch	8-SOIC	1.40	1.12	.84
TPS2101DBVR	296-10879-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.40	1.12	.84
TPS2101DBVR	296-10879-2-ND	VAUX Power Distribution Switch	SOT-23-5	2150.40/3,000		
TPS2101DBVT	296-2586-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.40	1.12	.84
TPS2101DBVT	296-2586-2-ND	VAUX Power Distribution Switch	SOT-23-5	196.00/250		
TPS2102D	296-2587-5-ND	VAUX Power Distribution Switch	8-SOIC	1.65	1.32	.99
TPS2102DBVR	296-10880-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.65	1.32	.99
TPS2102DBVR	296-10880-2-ND	VAUX Power Distribution Switch	SOT-23-5	2534.40/3,000		
TPS2102DBVT	296-2588-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.65	1.32	.99
TPS2102DBVT	296-2588-2-ND	VAUX Power Distribution Switch	SOT-23-5	231.00/250		
TPS2103D	296-2589-5-ND	VAUX Power Distribution Switch	8-SOIC	1.65	1.32	.99
TPS2103DBVR	296-10881-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.65	1.32	.99
TPS2103DBVR	296-10881-2-ND	VAUX Power Distribution Switch	SOT-23-5	2534.40/3,000		
TPS2103DBVT	296-2590-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.65	1.32	.99
TPS2103DBVT	296-2590-2-ND	VAUX Power Distribution Switch	SOT-23-5	231.00/250		
TPS2104D	296-2591-5-ND	VAUX Power Distribution Switch	8-SOIC	2.03	1.62	1.22
TPS2104DBVR	296-10882-2-ND	VAUX Power Distribution Switch	SOT-23-5	3110.40/3,000		
TPS2104DBVT	296-3447-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.03	1.62	1.22
TPS2104DBVT	296-3447-2-ND	VAUX Power Distribution Switch	SOT-23-5	283.50/250		
TPS2105D	296-2592-5-ND	VAUX Power Distribution Switch	8-SOIC	2.03	1.62	1.22
TPS2105DBVR	296-10883-2-ND	VAUX Power Distribution Switch	SOT-23-5	3111.00/3,000		
TPS2105DBVT	296-3448-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.03	1.62	1.22
TPS2105DBVT	296-3448-2-ND	VAUX Power Distribution Switch	SOT-23-5	283.50/250		
TPS2110PW	296-14202-5-ND	2-Input Autoswitching Power Mux *NEW!*	8-TSSOP	1.68	1.34	1.01
TPS2111PW	296-14203-5-ND	2-Input Autoswitching Power Mux *NEW!*	8-TSSOP	1.68	1.34	1.01
TPS2112PW	296-14204-5-ND	2-Input Autoswitching Power Mux *NEW!*	8-TSSOP	1.68	1.34	1.01
TPS2113PW	296-14205-5-ND	2-Input Autoswitching Power Mux *NEW!*	8-TSSOP	1.68	1.34	1.01
TPS2114PW	296-14206-5-ND	2-Input Autoswitching Power Mux *NEW!*	8-TSSOP	1.68	1.34	1.01
TPS2115PW	296-14207-5-ND	2-Input Autoswitching Power Mux *NEW!*	8-TSSOP	1.68	1.34	1.01
TPS2145IPWP	296-13385-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	14-TSSOP	2.34	1.88	1.46
TPS2147IDGQ	296-13386-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	10-MSOP	2.40	1.92	1.44
TPS2148IDGN	296-13387-5-ND	3.3V, LDO and Dual Switch for USB Peripheral Power Management	8-MSOP	2.23	1.78	1.34
TPS2149IDGN	296-13388-5-ND	3.3V, LDO and Dual Switch for USB Bus Powered Hub Power Management	8-MSOP	2.08	1.66	1.25
TPS2155IPWP	296-13389-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	14-TSSOP	2.34	1.88	1.46
TPS2157IDGQ	296-13390-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	10-MSOP	2.40	1.92	1.44
TPS2158IDGN	296-13391-5-ND	3.3V, LDO and Dual Switch for USB Peripheral Power Management	8-MSOP	2.23	1.78	1.34
TPS2159IDGN	296-13392-5-ND	3.3V, LDO and Dual Switch for USB Bus Powered Hub Power Management	8-MSOP	2.08	1.66	1.25
TPS2201IDBR	296-3449-1-ND	Dual PCMCIA Power Switch	30-SSOP	10.61	9.56	8.48
TPS2201IDBR	296-3449-2-ND	Dual PCMCIA Power Switch	30-SSOP	15734.00/2,000		
TPS2201IDFR	296-3450-1-ND	Dual PCMCIA Power Switch	30-SOP	10.61	9.56	8.48
TPS2201IDFR	296-3450-2-ND	Dual PCMCIA Power Switch	30-SOP	7867.00/1,000		
TPS2202AIDBR	296-3451-1-ND	Dual PCMCIA Power Switch	30-SSOP	10.61	9.56	8.48
TPS2202AIDBR	296-3451-2-ND	Dual PCMCIA Power Switch	30-SSOP	15734.00/2,000		
TPS2205IDAPR	296-3454-2-ND	Dual PCMCIA Power I/F Switch	32-TSSOP	6526.00/2,000		
TPS2205IDBR	296-3455-1-ND	Dual PCMCIA Power I/F Switch	30-SOP	5.22	4.18	3.53
TPS2205IDBR	296-3455-2-ND	Dual PCMCIA Power I/F Switch	30-SOP	6526.00/2,000		
TPS2205IDFR	296-3456-1-ND	Dual PCMCIA Power I/F Switch	30-SOP	6.28	5.03	4.24
TPS2205IDFR	296-3456-2-ND	Dual PCMCIA Power I/F Switch	30-SOP	3925.00/1,000		
TPS2206ADB	296-14058-5-ND	Dual PCMCIA Power I/F Switch *NEW!*	30-SSOP	4.70	3.77	2.93
TPS2206IDAPR	296-3457-1-ND	Dual PCMCIA Power Switch	32-TSSOP	5.20	4.16	3.51
TPS2206IDAPR	296-3457-2-ND	Dual PCMCIA Power Switch	32-TSSOP	6500.00/2,000		
TPS2206IDB	296-2246-5-ND	Dual PCMCIA Power Switch	30-SSOP	3.22	2.58	2.01
TPS2206IDBR	296-2246-1-ND	Dual PCMCIA Power Switch	30-SSOP	5.20	4.16	3.51
TPS2206IDBR	296-2246-2-ND	Dual PCMCIA Power Switch	30-SOP	6500.00/2,000		
TPS2206IDFR	296-13510-1-ND	Dual PCMCIA Power Switch	30-DF	6.24	5.00	4.22
TPS2206IDFR	296-13510-2-ND	Dual PCMCIA Power Switch	30-DF	3900.00/1,000		
TPS2211AIDB	296-3460-5-ND	PCMCIA Power Interface Switch	16-SOP	1.98	1.58	1.19
TPS2211AIDBR	296-13827-1-ND	PCMCIA Power Interface Switch *NEW!*	16-SSOP	1.98	1.58	1.19
TPS2211AIDBR	296-13827-2-ND	PCMCIA Power Interface Switch *NEW!*	16-SSOP	2054.00/2,000		
TPS2211APWP	296-13872-5-ND	PCMCIA Power Interface Switch *NEW!*	20-HTSSOP	1.98	1.58	1.19
TPS2211IDBR	296-3461-2-ND	PCMCIA Power Interface Switch	16-SOP	3010.00/2,000		
TPS2212IDB	296-2247-5-ND	Single PCMCIA Power Switch	16-SSOP	2.88	2.31	1.80
TPS2214ADB	296-2248-5-ND	Dual PCMCIA Power Switch	24-SSOP	5.10	4.08	3.45
TPS2214DB	296-2249-5-ND	Dual PCMCIA Power Switch	24-SSOP	5.32	4.26	3.60
TPS2216ADAP	296-2250-5-ND	Dual PCMCIA Power Switch	32-HTSSOP	5.40	4.32	3.36
TPS2216ADB	296-2251-5-ND	Dual PCMCIA Power Switch	30-SSOP	5.40	4.32	3.36
TPS2216DB	296-2252-5-ND	Dual PCMCIA Power Switch	30-SSOP	5.54	4.44	3.74
TPS2216DAP	296-3462-5-ND	PCMCIA Power Switch Serial Interface	32-SOP	5.54	4.44	3.74
TPS2221PWP	296-13747-5-ND	Single PC Card Power Interface Switch for PCMCIA Controllers	14-HTSSOP	3.67	2.94	2.29
TPS2223ADB	296-13015-5-ND	Dual-Slot CardBus Interface Switches	24-SSOP	3.67	2.94	2.29
TPS2223APWP	296-13016-5-ND	Dual-Slot CardBus Interface Switches	24-HTSSOP	3.67	2.94	2.29
TPS2223DB	296-12387-5-ND	1A Dual-Slot PC Card Power Switch w/Serial Interface	24-SSOP	3.96	3.17	2.47
TPS2223PWP	296-12388-5-ND	1A Dual-Slot PC Card Power Switch w/Serial Interface	24-HTSSOP	3.96	3.17	2.47
TPS2224ADB	296-13017-5-ND	Dual-Slot CardBus Interface Switches	24-SSOP	4.05	3.24	2.52
TPS2224APWP	296-13018-5-ND	Dual-Slot CardBus Interface Switches	24-HTSSOP	4.05	3.24	2.52
TPS2224DB	296-12389-5-ND	1A Dual-Slot PC Card Power Switch w/Serial Interface	24-SSOP	4.39	3.51	2.73
TPS2224PWP	296-12390-5-ND	1A Dual-Slot PC Card Power Switch w/Serial Interface	24-HTSSOP	4.39	3.51	2.73
TPS2226ADB	296-13019-5-ND	Dual-Slot CardBus Interface Switches	24-SSOP	4.37	3.50	2.72
TPS2226DB	296-12391-5-ND	1A Dual-Slot PC Card Power Switch w/Serial Interface	30-SSOP	4.37	3.50	2.72
TPS2228DB	296-13748-5-ND	Dual PC Card Power Interface Switch for PCMCIA Controllers	30-SSOP	5.80	4.64	3.92
TPS2228PWP	296-13749-5-ND	Dual PC Card Power Interface Switch for PCMCIA Controllers	20-HTSSOP	5.60	4.48	3.78
UC37131D	296-11248-5-ND	Low Side Smart Power Switch	8-SOIC	4.32	3.46	2.69
UC37132D	296-11249-5-ND	High/Low Side Smart Power Switch	16-SOIC	4.84	3.87	3.01
UC37132N	296-11250-5-ND	High/Low Side Smart Power Switch	14-Dip	4.84	3.87	3.01
UC37133D	296-11251-5-ND	High Side Smart Power Switch	8-SOIC	4.32	3.46	2.69
UC37133N	296-11252-5-ND	High Side Smart Power Switch	8-Dip	4.32	3.46	2.69

PWM Controllers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DRV101F	DRV101F-ND	PWM Solenoid / Valve Driver	7-DDPAK	6.92	5.54	4.68
DRV101T	DRV101T-ND	PWM Solenoid / Valve Driver	7-TO-220	6.92	5.54	4.68
DRV102F	DRV102F-ND	PWM Solenoid / Valve Driver	7-lead DDPAK	6.92	5.54	4.68
DRV102T	DRV102T-ND	PWM Solenoid / Valve Driver	TO-220-7	6.92	5.54	4.68
DRV103H	DRV103H-ND	Low Side DMOS Power Switch PWM Out	8-SOP	3.67	2.94	2.29
DRV103H/2K5	DRV103H/2K5CT-ND	Low Side DMOS Power Switch PWM Out	8-HSOP	3.71	2.97	2.31
DRV103H/2K5	DRV103H/2K5TR-ND	Low Side DMOS Power Switch PWM Out	8-HSOP	5197.50/2,500		
DRV103U	296-11622-ND	PWM Low Side Driver	8-SOIC	3.22	2.58	2.01
DRV590DWP	296-12201-5-ND	1.2A, High Efficiency PWM Power Driver	20-SOIC	11.00	9.90	8.78
DRV591VFP	296-12430-ND	High Efficiency PWM Power Driver	32-HLQFP	9.46	8.52	7.56
DRV592VFP	296-12550-ND	High Efficiency PWM Power Driver	32-HLQFP	16.95	15.82	14.69
DRV593VFPR	296-13643-1-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	8.86	7.98	7.08
DRV593VFPR	296-13643-2-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	6570.00/1,000		
DRV594VFPR	296-13644-1-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	8.86	7.98	7.08
DRV594VFPR	296-13644-2-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	6570.00/1,000		
DRV1100P	DRV1100P-ND	High Power Differential Driver Amp.	8-Dip	6.39	5.12	3.98
DRV1100U	DRV1100U-ND	High Power Differential Driver Amp.	8-SOIC	5.68	4.55	3.84
DRV1101U	DRV1101U-ND	High Power Differential Line Driver	8-SOIC	6.39	5.12	3.98
DRV1101U/2K5	DRV1101UTR-ND	High Power Differential Line Driver	8-SOIC	9010.00/2,500		
SG2524DR	296-12552-1-ND	PWM Controller with Shutdown	16-SOIC	1.08	.90	.72
SG2524DR	296-12552-2-ND	PWM Controller with Shutdown	16-SOIC	1170.00/2,500		
SG2524N	296-9685-5-ND	PWM Controller with Shutdown	16-Dip	1.08	.90	.72
SG3524D	296-9686-5-ND	Regulating PWM	16-SOP	1.11	.93	.74
SG3524N	296-9687-5-ND	Regulating PWM	16-Dip	1.11	.93	.74
SN74TVC3010DBQR	296-9891-1-ND	10-Bit Programmable Volt. Clamp	24-SSOP	1.63	1.30	.98
SN74TVC3010DBQR	296-9891-2-ND	10-Bit Programmable Volt. Clamp	24-SSOP	2080.00/2,500		
SN74TVC3010DGVR	296-9892-1-ND	10-Bit Programmable Volt. Clamp	24-TVSOP	1.38	1.10	.83
SN74TVC3010DGVR	296-9892-2-ND	10-Bit Programmable Volt. Clamp	24-TVSOP	1430.00/2,000		
SN74TVC3010PWR	296-9893-1-ND	10-Bit Programmable Volt. Clamp	24-TSSOP	1.38	1.10	.83
SN74TVC3010PWR	296-9893-2-ND	10-Bit Programmable Volt. Clamp	24-TSSOP	1430.00/2,000		
SN74TVC3306DCTR	296-13307-1-ND	Dual Voltage Clamp	8-SSOP	1.38	1.10	.83
SN74TVC3306DCTR	296-13307-2-ND	Dual Voltage Clamp	8-SSOP	2112.00/3,000		
SN74TVC3306DCUR	296-13308-1-ND	Dual Voltage Clamp	8-VSSOP	1.38	1.10	.83
SN74TVC3306DCUR	296-13308-2-ND	Dual Voltage Clamp	8-VSSOP	2112.00/3,000		
SN74TVC16222ADGGR	296-9888-1-ND	22-Bit Programmable Volt. Clamp	48-TSSOP	1.70	1.36	1.02
SN74TVC16222ADGGR	296-9888-2-ND	22-Bit Programmable Volt. Clamp	48-TSSOP	1768.00/2,000		
SN74TVC16222ADGVR	296-9889-1-ND	22-Bit Programmable Volt. Clamp	48-TVSOP	1.70	1.36	1.02
SN74TVC16222ADGVR	296-9889-2-ND	22-Bit Programmable Volt. Clamp	48-TVSOP	1768.00/2,000		
SN74TVC16222ADLR	296-9890-1-ND	22-Bit Programmable Volt. Clamp	48-SSOP	1.70	1.36	1.02
SN74TVC16222ADLR	296-9890-2-ND	22-Bit Programmable Volt. Clamp	48-SSOP	884.00/1,000		
TL494CD	296-1293-5-ND	PWM Controller	16-SOIC	.64	.48	.36
TL494CDR	296-1293-1-ND	PWM Controller	16-SOIC	.64	.48	.36
TL494CDR	296-1293-2-ND	PWM Controller	16-SOIC	520.00/2,500		
TL494CN	296-1799-5-ND	PWM Controller	16-Dip	.64	.48	.36
TL494CNSR	296-10191-1-ND	PWM Controller	16-SOP	.64	.48	.36

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TL494CNSR	296-10191-2-ND	PWM Controller	16-SOP	426.00/2,000		
TL494CPWR	296-10192-1-ND	PWM Controller	16-TSSOP	.64	.48	.36
TL494CPWR	296-10192-2-ND	PWM Controller	16-TSSOP	426.00/2,000		
TL494ID	296-10193-5-ND	PWM Control Circuit	16-SOIC	1.20	1.00	.80
TL494IN	296-10194-5-ND	PWM Controller	16-Dip	1.20	1.00	.80
TL594CD	296-10220-5-ND	PWM Control Circuit	16-SOIC	.84	.63	.48
TL594CN	296-10221-5-ND	PWM Control Circuit	16-Dip	.84	.63	.48
TL594ID	296-10222-5-ND	PWM Control Circuit	16-SOIC	1.08	.90	.72
TL594IN	296-10223-5-ND	PWM Control Circuit	16-Dip	1.08	.90	.72
TL594INSR	296-13355-1-ND	PWM Control Circuit	16-SOP	1.08	.90	.72
TL594INSR	296-13355-2-ND	PWM Control Circuit	16-SOP	958.00/2,000		
TL594IPWR	296-10224-1-ND	PWM Control Circuit	16-TSSOP	1.08	.90	.72
TL594IPWR	296-10224-2-ND	PWM Control Circuit	16-TSSOP	958.00/2,000		
TL598CD	296-10225-5-ND	PWM Controller	16-SOIC	1.35	1.13	.90
TL598CN	296-10226-5-ND	PWM Controller	16-Dip	1.35	1.13	.90
TL1451ACD	296-13350-5-ND	Dual Channel PWM Controller	16-SOP	1.98	1.58	1.19
TL1451ACDBR	296-10133-1-ND	Dual Channel PWM Controller	16-SSOP	1.98	1.58	1.19
TL1451ACDBR	296-10133-2-ND	Dual Channel PWM Controller	16-SSOP	2054.00/2,000		
TL1451ACN	296-12197-5-ND	Dual Channel PWM Controller	16-Dip	1.98	1.58	1.19
TL1451ACNSR	296-10134-1-ND	Dual Channel PWM Controller	16-SOIC	1.98	1.58	1.19
TL1451ACNSR	296-10134-2-ND	Dual Channel PWM Controller	16-SOIC	2054.00/2,000		
TL1451ACPWR	296-10135-1-ND	Dual Channel PWM Controller	16-TSSOP	1.98	1.58	1.19
TL1451ACPWR	296-10135-2-ND	Dual Channel PWM Controller	16-TSSOP	2054.00/2,000		
TL1451AQD	296-10137-5-ND	Dual Channel PWM Controller	16-SOIC	2.05	1.64	1.23
TL1453CD	296-10138-5-ND	Dual Channel PWM Controller	16-SOIC	1.98	1.58	1.19
TL1453CN	296-10139-5-ND	Dual Channel PWM Controller	16-Dip	1.98	1.58	1.19
TL1454ACD	296-13792-5-ND	Dual Channel PWM Control Circuit	16-SOIC	2.15	1.72	1.29
TL1454ACDBR	296-13793-1-ND	Dual Channel PWM Control Circuit	16-SSOP	2.15	1.72	1.29
TL1454ACDBR	296-13793-2-ND	Dual Channel PWM Control Circuit	16-SSOP	2236.00/2,000		
TL1454ACN	296-13794-5-ND	Dual Channel PWM Control Circuit	16-Dip	2.15	1.72	1.29
TL1454ACNSR	296-13795-1-ND	Dual Channel PWM Control Circuit	16-SOP	2.15	1.72	1.29
TL1454ACNSR	296-13795-2-ND	Dual Channel PWM Control Circuit	16-SOP	2236.00/2,000		
TL1454ACPWR	296-13796-1-ND	Dual Channel PWM Control Circuit	16-TSSOP	2.15	1.72	1.29
TL1454ACPWR	296-13796-2-ND	Dual Channel PWM Control Circuit	16-TSSOP	2236.00/2,000		
TL2842DR-8	296-12998-1-ND	Current-Mode PWM Controller	8-SOP	.75	.63	.50
TL2842DR-8	296-12998-2-ND	Current-Mode PWM Controller	8-SOP	812.50/2,500		
TL2843D	296-1977-5-ND	Current-Mode PWM Controller	14-SOIC	.75	.63	.50
TL2843DR-8	296-10164-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2843DR-8	296-10164-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL2844DR	296-1367-1-ND	Current-Mode PWM Controller	14-SOIC	.75	.63	.50
TL2844DR-8	296-10165-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2844DR-8	296-10165-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL2845DR-8	296-10166-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2845DR-8	296-10166-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL3842DR-8	296-10173-1-ND	Current-Mode PWM Controller	8-SOIC	.80	.60	.45
TL3842DR-8	296-10173-2-ND	Current-Mode PWM Controller	8-SOIC	650.00/2,500		
TL3842P	296-10174-5-ND	Current-Mode PWM Controller	8-Dip	.80	.60	.45
TL3843DR-8	296-10175-1-ND	Current-Mode PWM Controller	8-SOIC	.80	.60	.45
TL3843DR-8	296-10175-2-ND	Current-Mode PWM Controller	8-SOIC	650.00/2,500		
TL3843P	296-10176-5-ND	Current-Mode PWM Controller	8-Dip	.80	.60	.45
TL3844DR-8	296-10177-1-ND	Current-Mode PWM Controller	8-SOIC	.80	.60	.45
TL3844DR-8	296-10177-2-ND	Current-Mode PWM Controller	8-SOIC	650.00/2,500		
TL3844P	296-10178-5-ND	Current-Mode PWM Controller	8-Dip	.80	.60	.45
TL3845DR-8	296-10179-1-ND	Current-Mode PWM Controller	8-SOIC	.80	.60	.45
TL3845DR-8	296-10179-2-ND	Current-Mode PWM Controller	8-SOIC	650.00/2,500		
TL3845P	296-10180-5-ND	Current-Mode PWM Controller	8-Dip	.80	.60	.45
TL5001ACD	296-2472-5-ND	PWM Controller Circuit	8-SOIC	1.38	1.15	.92
TL5001ACDR	296-2472-1-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1.38	1.15	.92
TL5001ACDR	296-2472-2-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1495.00/2,500		
TL5001AIP	296-10203-5-ND	PWM Cont. w/Wide Input Volt Range	8-Dip	1.38	1.15	.92
TL5001AQD	296-10204-5-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1.48	1.18	.89
TL5001CDR	296-1294-1-ND	PWM Controller	8-SOIC	1.14	.95	.76
TL5001CDR	296-1294-2-ND	PWM Controller	8-SOIC	1235.002,500		
TL5001CP	296-10205-5-ND	PWM Cont. w/Wide Input Volt Range	8-Dip	1.14	.95	.76
TL5001CPSR	296-10206-1-ND	PWM Cont. w/Wide Input Volt Range	8-SOP	1.14	.95	.76
TL5001CPSR	296-10206-2-ND	PWM Cont. w/Wide Input Volt Range	8-SOP	1010.00/2,000		
TL5001ID	296-10214-5-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1.14	.95	.76
TL5001QD	296-10215-5-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1.32	1.10	.88
TL5002CD	296-10216-5-ND	PWM Controller	8-SOP	1.38	1.10	.83
TL5002CDR	296-10216-1-ND	PWM Controller	8-SOP	1.38	1.10	.83
TL5002CDR	296-10216-2-ND	PWM Controller	8-SOP	1760.00/2,500		
TLC2932IPWR	296-10262-1-ND	HP Phase Lock Loop	14-TSSOP	2.25	1.80	1.40
TLC2932IPWR	296-10262-2-ND	HP Phase Locked Loop	14-TSSOP	2550.00/2,000		
TLC2933IPW	296-11907-5-ND	HP Phase Locked Loop	14-TSSOP	2.32	1.86	1.45
TLC2934IPWR	296-10263-1-ND	HP Single Phase Locked Loop	14-TSSOP	2.36	1.89	1.47
TLC2934IPWR	296-10263-2-ND	HP Single Phase Locked Loop	14-TSSOP	2678.00/2,000		
TPS5100IPW	296-2474-5-ND	3-Channel PWM Controller	16-TSSOP	2.63	2.11	1.64
TPS43000PW	296-12403-5-ND	Hi-Frequency Synchronous PWM Controller	16-TSSOP	4.28	3.42	2.66
TPS54372PWP	296-13055-5-ND	3A Output Synchronous PWM Switcher	20-HTSSOP	6.56	5.25	4.43
TPS54616PWPR	296-12288-1-ND	Synch.-Buck PWM Converter	28-HTSSOP	8.84	7.08	5.97
TPS54616PWPR	296-12288-2-ND	Synch.-Buck PWM Converter	28-HTSSOP	11050.00/2,000		
TPS54910PWP	296-13409-5-ND	3V-4V Input, 9A Output, Synchronous PWM Switcher with Integrated FETs (SWIFT™)	28-HTSSOP	9.88	7.91	6.67
TPS56100PWP	296-2475-5-ND	DSP Power Supply Controller	28-HTSSOP	6.60	5.28	4.46
TPS56300PWP	296-2476-5-ND	DSP Supply Controller	28-HTSSOP	7.78	6.23	5.26
TPS56302PWP	296-2477-5-ND	Dual DSP Supply Controller	28-HTSSOP	7.78	6.23	5.26
UC2524ADW	296-11151-5-ND	Advanced Regulating PWM	16-SOIC	3.92	3.14	2.44
UC2524AN	296-11152-5-ND	Advanced Regulating PWM	16-Dip	3.92	3.14	2.44
UC2525ADW	296-11153-5-ND	Regulating PWM	16-SOIC	3.42	2.74	2.13
UC2525AN	296-11154-5-ND	Regulating PWM	16-Dip	4.12	3.30	2.57
UC2525BDW	296-2479-5-ND	Regulating PWM	16-SOIC	5.24	4.20	3.54
UC2526ADW	296-11155-5-ND	Regulating PWM	18-SOIC	2.97	2.38	1.85
UC2526AN	296-11156-5-ND	Regulating PWM	18-Dip	2.97	2.38	1.85
UC2572D	296-2480-5-ND	Negative Output Flyback PWM	8-SOIC	2.32	1.86	1.45
UC2572N	296-11157-5-ND	Negative Output Flyback PWM	8-Dip	2.32	1.86	1.45
UC2573N	296-11158-5-ND	Buck PWM Voltage Supply Regulator	8-Dip	2.27	1.82	1.42
UC2625DW	296-11162-5-ND	Brushless DC Motor Controller	28-SOIC	9.60	7.68	6.48
UC2637DW	296-2481-5-ND	DC Motor Switch-Mode Controller	20-SOIC	6.54	5.24	4.42
UC2637N	296-11163-5-ND	DC Motor Switch-Mode Controller	18-Dip	6.54	5.24	4.42
UC2638DW	296-2482-5-ND	PWM Motor Controller	20-SOIC	6.92	5.54	4.68
UC2702D	296-2483-5-ND	Quad PWM Relay Driver	16-SOIC	4.34	3.48	2.71
UC2705D	296-2484-5-ND	High Speed Power Driver	8-SOIC	5.13	4.11	3.20
UC2705N	296-11164-5-ND	High Speed Power Driver	8-Dip	5.13	4.11	3.20

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UC2706DW	296-2485-5-ND	Dual Output Driver	16-SOIC	5.62	4.50	3.80
UC2707DW	296-2486-5-ND	Dual Channel Power Driver	16-SOIC	5.66	4.53	3.83
UC2707N	296-11165-5-ND	Dual Channel Power Driver	16-Dip	5.66	4.53	3.83
UC2708DW	296-2487-5-ND	Dual Non-Inverting Power Driver	16-SOP	6.66	5.33	4.50
UC2823ADW	296-2488-5-ND	High Speed PWM Controller	16-SOIC	9.80	7.84	6.62
UC2823AN	296-11166-5-ND	High Speed PWM Controller	16-Dip	9.80	7.84	6.62
UC2823BDW	296-2489-5-ND	High Speed PWM Controller	16-SOIC	9.80	7.84	6.62
UC2823N	296-11167-5-ND	High Speed PWM Controller	16-Dip	3.17	2.54	1.98
UC2825ADW	296-2490-5-ND	High Speed PWM Controller	16-SOIC	5.56	4.45	3.46
UC2825AN	296-11168-5-ND	High Speed PWM Controller	16-Dip	5.56	4.45	3.46
UC2825BDW	296-2491-5-ND	High Speed PWM Controller	16-SOIC	5.56	4.45	3.46
UC2825BN	296-11169-5-ND	High Speed PWM Controller	16-Dip	5.56	4.45	3.46
UC2825DW	296-11170-5-ND	High Speed PWM Controller	16-SOIC	3.17	2.54	1.98
UC2825N	296-11171-5-ND	High Speed PWM Controller	16-Dip	3.17	2.54	1.98
UC2827DW-1	296-2492-5-ND	Current Fed PWM Controller	24-SOIC	5.76	4.61	3.89
UC2827DW-2	296-2493-5-ND	Voltage Fed PWM Controller	24-SOIC	5.76	4.61	3.89
UC2834N	296-11172-5-ND	High-Efficiency Regulator Controller	16-Dip	10.31	9.29	8.24
UC2842AD	296-11173-5-ND	Current-Mode PWM Controller	14-SOIC	1.95	1.56	1.17
UC2842AD8	296-11174-5-ND	Current-Mode PWM Controller	8-SOIC	1.95	1.56	1.17
UC2842AN	296-11175-5-ND	Current-Mode PWM Controller	8-Dip	1.95	1.56	1.17
UC2842N	296-11176-5-ND	Current-Mode PWM Controller	8-Dip	1.95	1.56	1.17
UC2843AD	296-11177-5-ND	Current-Mode PWM Controller	14-SOIC	1.95	1.56	1.17
UC2843AD8	296-11178-5-ND	Current-Mode PWM Controller	8-SOIC	1.95	1.56	1.17
UC2843AN	296-11179-5-ND	Current-Mode PWM Controller	8-Dip	1.95	1.56	1.17
UC2843D8	296-11180-5-ND	Current-Mode PWM Controller	8-SOIC	1.95	1.56	1.17
UC2843N	296-11181-5-ND	Current-Mode PWM Controller	8-Dip	1.95	1.56	1.17
UC2844AD	296-11182-5-ND	Current-Mode PWM Controller	14-SOIC	1.95	1.56	1.17
UC2844AN	296-11183-5-ND	Current-Mode PWM Controller	8-Dip	1.95	1.56	1.17
UC2844D8	296-11184-5-ND	Current-Mode PWM Controller	8-SOIC	1.95	1.56	1.17
UC2845AD	296-11185-5-ND	Current-Mode PWM Controller	14-SOIC	2.18	1.74	1.31
UC2845AD8	296-11186-5-ND	Current-Mode PWM Controller	8-SOIC	2.18	1.74	1.31
UC2845AN	296-11187-5-ND	Current-Mode PWM Controller	8-Dip	2.18	1.74	1.31
UC2845N	296-11188-5-ND	Current-Mode PWM Controller	8-Dip	2.35	1.88	1.41
UC2846DW	296-11189-5-ND	Current-Mode PWM Controller	16-SOIC	3.06	2.45	1.91
UC2846N	296-11190-5-ND	Current-Mode PWM Controller	16-Dip	3.06	2.45	1.91
UC2849DW	296-2494-5-ND	Secondary-Side Current-Mode Controller	24-SOIC	6.18	4.95	4.18
UC2849DWTR	296-14446-1-ND	Secondary-Side Current-Mode Controller *NEW!*	24-SOIC	6.36	5.09	4.30
UC2849DWTR	296-14446-2-ND	Secondary-Side Current-Mode Controller *NEW!*	24-SOIC	7950.00/2,000		
UC2849N	296-11191-5-ND	Secondary-Side Current-Mode Controller	24-Dip	6.18	4.95	4.18
UC2851N	296-11192-5-ND	Prog. Off-Line PWM Controller	18-Dip	9.31	8.39	7.44
UC2853N	296-11193-5-ND	High Power Factor Pre-Regulator	8-Dip	2.57	2.06	1.60
UC2854ADW	296-2495-5-ND	Power Factor Pre-Regulator	16-SOP	2.99	2.40	1.87
UC2854BDW	296-2496-5-ND	Power Factor Pre-Regulator	16-SOP	2.99	2.40	1.87
UC2854BN	296-11194-5-ND	Power Factor Pre-Regulator	16-Dip	2.99	2.40	1.87
UC2854DW	296-11195-5-ND	Power Factor Pre-Regulator	16-SOIC	2.48	1.98	1.54
UC2855ADW	296-2497-5-ND	Power Factor Pre-Regulator	20-SOIC	9.78	8.81	7.81
UC2855BDW	296-2498-5-ND	Power Factor Pre-Regulator	20-SOIC	9.78	8.81	7.81
UC2855BN	296-11196-5-ND	Power Factor Pre-Regulator	20-Dip	9.78	8.81	7.81
UC2856DW	296-11197-5-ND	Improved Current-Mode PWM Controller	16-SOIC	10.06	9.06	8.04
UC2856N	296-11198-5-ND	Improved Current-Mode PWM Controller	16-Dip	10.06	9.06	8.04
UC2861DW	296-14061-5-ND	Resonant-Mode Power Supply Controller *NEW!*	16-SOIC	9.44	7.56	6.38
UC2864DW	296-11199-5-ND	Power Supply Controller	16-SOIC	9.32	7.46	6.30
UC2872DW	296-11200-5-ND	Lamp Ballast Controller	16-SOIC	5.76	4.61	3.89
UC2875N	296-11201-5-ND	Phase Shift PWM Controller	20-Dip	9.32	7.46	6.30
UC2879DW	296-11202-5-ND	Phase Shift PWM Controller	20-SOIC	7.22	5.78	4.88
UC2879N	296-11203-5-ND	Phase Shift PWM Controller	20-Dip	7.22	5.78	4.88
UC2901D	296-11204-5-ND	Isolated FB Generator	14-SOIC	5.56	4.45	3.46
UC2901N	296-11205-5-ND	Isolated FB Generator	14-Dip	5.56	4.45	3.46
UC2901Q	296-11206-5-ND	Isolated FB Generator	20-PLCC	5.56	4.45	3.46
UC2903N	296-11207-5-ND	Supply/Line Monitor	18-Dip	5.04	4.04	3.14
UC2906N	296-11208-5-ND	Lead Acid Charge Management	16-Dip	5.36	4.29	3.34
UC2907DW	296-2499-5-ND	Load Share Controller	16-SOIC	5.13	4.11	3.20
UC3524ADW	296-11211-5-ND	Advanced Regulating PWM	16-SOIC	3.20	2.56	1.99
UC3524AN	296-11212-5-ND	Advanced Regulating PWM	16-Dip	3.20	2.56	1.99
UC3524D	296-11213-5-ND	Advanced Regulating PWM	16-SOIC	1.75	1.40	1.05
UC3524N	296-11214-5-ND	Advanced Regulating PWM	16-Dip	1.75	1.40	1.05
UC3525ADW	296-11215-5-ND	Regulating PWM	16-SOIC	2.18	1.74	1.31
UC3525AN	296-11216-5-ND	Regulating PWM	16-Dip	2.18	1.74	1.31
UC3525AQ	296-11217-5-ND	Regulating PWM	20-PLCC	2.18	1.74	1.31
UC3525BDW	296-2503-5-ND	Regulating PWM	16-SOIC	4.19	3.35	2.61
UC3525BN	296-11218-5-ND	Regulating PWM	16-Dip	4.19	3.35	2.61
UC3526ADW	296-11219-5-ND	Regulating PWM	18-SOIC	2.18	1.74	1.31
UC3526AN	296-11220-5-ND	Regulating PWM	18-Dip	2.18	1.74	1.31
UC3526DW	296-11221-5-ND	Regulating PWM	18-SOIC	2.18	1.74	1.31
UC3526N	296-11222-5-ND	Regulating PWM	18-Dip	2.18	1.74	1.31
UC3527AN	296-11223-5-ND	Regulating PWM	16-Dip	3.31	2.65	2.06
UC3527BN	296-2504-5-ND	Regulating PWM	16-Dip	5.09	4.07	3.17
UC3572D	296-2506-5-ND	Negative Output Flyback PWM	8-SOIC	2.38	1.90	1.43
UC3572N	296-11224-5-ND	Negative Output Flyback PWM	8-Dip	2.38	1.90	1.43
UC3573D	296-2507-5-ND	Buck PWM Voltage Supply Regulator	8-SOIC	2.38	1.90	1.43
UC3573N	296-11225-5-ND	Buck PWM Voltage Supply Regulator	8-Dip	2.38	1.90	1.43
UC3625DW	296-11235-5-ND	Brushless DC Motor Controller	28-SOIC	8.84	7.08	5.97
UC3625N	296-11236-5-ND	Brushless DC Motor Controller	28-Dip	8.84	7.08	5.97
UC3637DW	296-2508-5-ND	DC Motor Drive Controller	20-SOIC	5.76	4.61	3.89
UC3637N	296-11237-5-ND	DC Motor Drive Controller	18-Dip	5.76	4.61	3.89
UC3638DW	296-2509-5-ND	PWM Motor Controller	20-SOIC	5.90	4.72	3.99
UC3638N	296-11238-5-ND	PWM Motor Controller	20-Dip	5.90	4.72	3.99
UC3702N	296-11239-5-ND	Quad PWM Relay Driver	16-Dip	3.92	3.14	2.44
UC3705D	296-2511-5-ND	High Speed Power Driver	8-SOIC	4.64	3.71	2.89
UC3705N	296-11240-5-ND	High Speed Power Driver	8-Dip	4.64	3.71	2.89
UC3705T	296-11241-5-ND	High Speed Power Driver	TO-220-5	4.64	3.71	2.89
UC3706DW	296-2512-5-ND	Dual Output Driver	16-SOIC	4.64	3.71	2.89
UC3707DW	296-2513-5-ND	Dual Channel Power Driver	16-SOIC	5.13	4.11	3.20
UC3707N	296-11243-5-ND	Dual Channel Power Driver	16-Dip	5.13	4.11	3.20

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UC3708DW	296-2514-5-ND	Dual Non-Inverting Power Driver	16-SOP	5.58	4.47	3.77
UC3708N	296-12120-5-ND	Dual Non-Inverting Power Driver	8-Dip	5.58	4.47	3.77
UC3638Q	296-13056-5-ND	Advanced PWM Motor Controller	20-PLCC	5.90	4.72	3.99
UC3708NE	296-11244-5-ND	Dual Non-Inverting Power Driver	16-Dip	5.58	4.47	3.77
UC3823ADW	296-2515-5-ND	High Speed PWM Controller	16-SOIC	8.84	7.08	5.97
UC3823AN	296-11261-5-ND	High Speed PWM Controller	16-Dip	8.84	7.08	5.97
UC3823BN	296-11262-5-ND	High Speed PWM Controller	16-Dip	8.81	7.94	7.04
UC3823DW	296-11263-5-ND	High Speed PWM Controller	16-SOIC	2.97	2.38	1.85
UC3823Q	296-11264-5-ND	High Speed PWM Controller	20-PLCC	2.97	2.38	1.85
UC3823BDW	296-2516-5-ND	High Speed PWM Controller	16-SOIC	8.81	7.94	7.04
UC3824DW	296-11265-5-ND	High Speed PWM Controller	16-SOIC	8.18	6.55	5.53
UC3824N	296-11266-5-ND	High Speed PWM Controller	16-Dip	8.18	6.55	5.53
UC3825ADW	296-2517-5-ND	High Speed PWM Controller	16-SOIC	5.36	4.29	3.34
UC3825AN	296-11267-5-ND	High Speed PWM Controller	16-Dip	5.36	4.29	3.34
UC3825AQ	296-11268-5-ND	High Speed PWM Controller	20-PLCC	5.36	4.29	3.34
UC3825BDW	296-2518-5-ND	High Speed PWM Controller	16-SOIC	9.24	7.40	6.24
UC3825BN	296-11269-5-ND	High Speed PWM Controller	16-Dip	9.24	7.40	6.24
UC3825DW	296-11270-5-ND	High Speed PWM Controller	16-SOIC	2.97	2.38	1.85
UC3825N	296-11271-5-ND	High Speed PWM Controller	16-Dip	2.97	2.38	1.85
UC3827DW-1	296-2519-5-ND	Buck, Current Fed PWM Controller	24-SOIC	8.48	7.64	6.77
UC3827DW-2	296-2520-5-ND	Buck, Voltage Fed PWM Controller	24-SOIC	8.48	7.64	6.77
UC3827N-1	296-2521-5-ND	Buck, Current Fed PWM Controller	24-Dip	8.48	7.64	6.77
UC3827N-2	296-2522-5-ND	Buck, Voltage Fed PWM Controller	24-Dip	8.48	7.64	6.77
UC3834N	296-11275-5-ND	High Efficiency Linear Regulator	16-Dip	8.46	7.62	6.76
UC3835N	296-2523-5-ND	High Efficiency Regulator Controller	8-Dip	5.50	4.40	3.72
UC3836D	296-2524-5-ND	High Efficiency Regulator Controller	8-SOIC	6.08	4.87	4.11
UC3836N	296-11276-5-ND	High Efficiency Regulator Controller	8-Dip	6.08	4.87	4.11
UC3841N	296-11277-5-ND	Prog., Off-Line, PWM Controller	18-Dip	7.76	6.21	5.24
UC3842AD	296-11278-5-ND	Current-Mode PWM Controller	14-SOP	1.60	1.28	.96
UC3842AD8	296-11279-5-ND	Current-Mode PWM Controller	8-SOP	1.60	1.28	.96
UC3842ADW	296-13426-5-ND	Current-Mode PWM Controller	16-SOIC	1.60	1.28	.96
UC3842AN	296-11280-5-ND	Current-Mode PWM Controller	8-Dip	1.60	1.28	.96
UC3842D	296-13427-5-ND	Current-Mode PWM Controller	14-SOIC	1.58	1.26	.95
UC3842D8	296-11281-5-ND	Current-Mode PWM Controller	8-SOIC	1.58	1.26	.95
UC3842N	296-11282-5-ND	Current-Mode PWM Controller	8-Dip	1.58	1.26	.95
UC3843AD	296-11283-5-ND	Current-Mode PWM Controller	14-SOIC	1.60	1.28	.96
UC3843AD8	296-11284-5-ND	Current-Mode PWM Controller	8-SOIC	1.60	1.28	.96
UC3843AN	296-11285-5-ND	Current-Mode PWM Controller	8-Dip	1.60	1.28	.96
UC3843D	296-11286-5-ND	Current-Mode PWM Controller	14-SOIC	1.63	1.30	.98
UC3843D8	296-11287-5-ND	Current-Mode PWM Controller	8-SOP	1.63	1.30	.98
UC3843N	296-11288-5-ND	Current-Mode PWM Controller	8-Dip	1.63	1.30	.98
UC3844AD	296-11289-5-ND	Current-Mode PWM Controller	14-SOIC	1.60	1.28	.96
UC3844AD8	296-11290-5-ND	Current-Mode PWM Controller	8-SOIC	1.60	1.28	.96
UC3844AN	296-11291-5-ND	Current-Mode PWM Controller	8-Dip	1.60	1.28	.96
UC3844D	296-11292-5-ND	Current-Mode PWM Controller	14-SOIC	1.63	1.30	.98
UC3844D8	296-11293-5-ND	Current-Mode PWM Controller	8-SOIC	1.63	1.30	.98
UC3844N	296-11294-5-ND	Current-Mode PWM Controller	8-Dip	1.63	1.30	.98
UC3845AD	296-11295-5-ND	Current-Mode PWM Controller	14-SOIC	1.60	1.28	.96
UC3845AD8	296-11296-5-ND	Current-Mode PWM Controller	8-SOIC	1.60	1.28	.96
UC3845AN	296-11297-5-ND	Current-Mode PWM Controller	8-Dip	1.60	1.28	.96
UC3845D	296-11298-5-ND	Current-Mode PWM Controller	14-SOIC	1.63	1.30	.98
UC3845D8	296-11299-5-ND	Current-Mode PWM Controller	8-SOIC	1.63	1.30	.98
UC3846DW	296-11300-5-ND	Current-Mode PWM Controller	16-SOIC	2.97	2.38	1.85
UC3846N	296-11301-5-ND	Current-Mode PWM Controller	16-Dip	2.97	2.38	1.85
UC3847DW	296-11302-5-ND	Current-Mode PWM Controller	16-SOIC	5.36	4.29	3.34
UC3847N	296-11303-5-ND	Current-Mode PWM Controller	16-Dip	5.36	4.29	3.34
UC3848DW	296-11304-5-ND	Avg. Current-Mode PWM Controller	16-SOIC	8.60	6.88	5.81
UC3849DW	296-2525-5-ND	Secondary-Side Current-Mode Controller	24-SOIC	5.52	4.42	3.73
UC3851N	296-11305-5-ND	Programmable Off-Line PWM Controller	18-Dip	8.58	6.87	5.80
UC3852D	296-11306-5-ND	Power Factor Pre-Regulator	8-SOIC	3.44	2.76	2.15
UC3852N	296-11307-5-ND	Power Factor Pre-Regulator	8-Dip	3.44	2.76	2.15
UC3853D	296-11308-5-ND	Power Factor Pre-Regulator	8-SOIC	2.35	1.88	1.41
UC3853N	296-11309-5-ND	Power Factor Pre-Regulator	8-Dip	2.35	1.88	1.41
UC3854ADW	296-2526-5-ND	Power Factor Pre-Regulator	16-SOP	2.68	2.15	1.67
UC3854AN	296-11310-5-ND	Power Factor Pre-Regulator	16-Dip	2.68	2.15	1.67
UC3854BDW	296-2527-5-ND	Power Factor Pre-Regulator	16-SOP	2.68	2.15	1.67
UC3854BN	296-11311-5-ND	Power Factor Pre-Regulator	16-Dip	2.68	2.15	1.67
UC3854DW	296-11312-5-ND	Power Factor Pre-Regulator	16-SOIC	2.18	1.74	1.31
UC3854N	296-11313-5-ND	Power Factor Pre-Regulator	16-Dip	2.18	1.74	1.31
UC3855ADW	296-2528-5-ND	Power Factor Pre-Regulator	20-SOIC	9.98	7.99	6.74
UC3855AN	296-11314-5-ND	Power Factor Pre-Regulator	20-Dip	9.98	7.99	6.74
UC3855BDW	296-2529-5-ND	Power Factor Pre-Regulator	20-SOIC	9.98	7.99	6.74
UC3855BN	296-11315-5-ND	Power Factor Pre-Regulator	20-Dip	9.98	7.99	6.74
UC3856DW	296-11316-5-ND	Current-Mode PWM Controller	16-SOIC	7.54	6.04	5.09
UC3856N	296-11317-5-ND	Current-Mode PWM Controller	16-Dip	7.54	6.04	5.09
UC3861DW	296-14332-5-ND	Resonant-Mode Power Supply Controller *NEW!*	16-SOIC	5.50	4.40	3.72
UC3861N	296-11318-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.50	4.40	3.72
UC3862N	296-11319-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.50	4.40	3.72
UC3863N	296-11320-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.50	4.40	3.72
UC3864DW	296-11321-5-ND	Resonant-Mode Power Supply Controller	16-SOIC	5.50	4.40	3.72
UC3864N	296-11322-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.50	4.40	3.72
UC3865N	296-11323-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.50	4.40	3.72
UC3867N	296-11324-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.50	4.40	3.72
UC3868N	296-11325-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.20	4.16	3.24
UC3875DWP	296-11331-5-ND	Phase Shift Resonant Controller	28-SOIC	8.74	7.00	5.90
UC3875N	296-11332-5-ND	Phase Shift Resonant Controller	20-Dip	8.74	7.00	5.90
UC3876N	296-11333-5-ND	Phase Shift Resonant Controller	20-Dip	11.85	10.67	9.46
UC3879DW	296-11334-5-ND	Phase Shift Resonant Controller	20-SOIC	6.66	5.33	4.50
UC3879N	296-11335-5-ND	Phase Shift Resonant Controller	20-Dip	6.66	5.33	4.50
UC3886D	296-11336-5-ND	Current-Mode PWM Controller	16-SOIC	5.15	4.13	3.21
UC3886N	296-11337-5-ND	Current-Mode PWM Controller	16-Dip	5.15	4.13	3.21
UC3902D	296-11340-5-ND	Load Share Controller	8-SOIC	3.74	2.99	2.33
UC3902N	296-11341-5-ND	Load Share Controller	8-Dip	3.74	2.99	2.33
UC3907DW	296-2530-5-ND	Load Share Controller	16-SOIC	4.23	3.39	2.64
UC3907N	296-11344-5-ND	Load Share Controller	16-Dip	4.23	3.39	2.64
UCC28C40D	296-13429-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.33	1.86	1.40
UCC28C40DGK	296-12570-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.33	1.86	1.40
UCC28C40P	296-12571-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.33	1.86	1.40
UCC28C41D	296-13430-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.33	1.86	1.40
UCC28C41DGK	296-12572-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.33	1.86	1.40
UCC28C41P	296-12573-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.33	1.86	1.40
UCC28C42D	296-13431-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.33	1.86	1.40
UCC28C42DGK	296-12291-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.33	1.86	1.40
UCC28C42P	296-13432-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.33	1.86	1.40
UCC28C43D	296-13433-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.33	1.86	1.40
UCC28C43DGK	296-12292-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.33	1.86	1.40
UCC28C43P	296-13434-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.33	1.86	1.40
UCC28C44D	296-13435-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.33	1.86	1.40
UCC28C44DGK	296-12574-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.33	1.86	1.40
UCC28C44P	296-12575-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.33	1.86	1.40
UCC28C45D	296-12576-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.33	1.86	1.40
UCC28C45DGK	296-12293-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.33	1.86	1.40
UCC28C45P	296-13436-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.33	1.86	1.40
UCC38C40D	296-13832-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-SOIC	2.13	1.70	1.28
UCC38C40DGK	296-13833-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-MSOP	2.13	1.70	1.28
UCC38C40P	296-13834-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-Dip	2.13	1.70	1.28
UCC38C41D	296-13835-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-SOIC	2.13	1.70	1.28
UCC38C41DGK	296-13836-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-MSOP	2.13	1.70	1.28
UCC38C41P	296-13837-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-Dip	2.13	1.70	1.28
UCC38C42D	296-13838-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-SOIC	2.13	1.70	1.28
UCC38C42DGK	296-13839-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-MSOP	2.13	1.70	1.28
UCC38C42P	296-13840-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-Dip	2.13	1.70	1.28
UCC38C43D	296-12253-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.13	1.70	1.28
UCC38C43DGK	296-13841-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-MSOP	2.13	1.70	1.28
UCC38C43P	296-13441-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.13	1.70	1.28
UCC38C44D	296-13842-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-SOIC	2.13	1.70	1.28
UCC38C44DGK	296-13843-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-MSOP	2.13	1.70	1.28
UCC38C44P	296-13442-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.13	1.70	1.28
UCC2580D-1	296-11374-5-ND	Single Ended Active Clamp/Reset PWM	16-SOIC	4.50	3.60	2.80
UCC38C45D	296-13844-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-SOIC	2.13	1.70	1.28
UCC38C45DGK	296-13845-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-MSOP	2.13	1.70	1.28
UCC38C45P	296-13846-5-ND	BiCMOS Low-Power Current-Mode PWM Controller *NEW!*	8-Dip	2.13	1.70	1.28
UCC2580D-2	296-11375-5-ND	Single Ended Active Clamp/Reset PWM	16-SOIC	4.50	3.60	2.80
UCC2580D-3	296-11376-5-ND	Single Ended Active Clamp/Reset PWM	16-SOIC	4.50	3.60	2.80
UCC2580D-4	296-11377-5-ND	Single Ended Active Clamp/Reset PWM	16-SOIC	4.50	3.60	2.80
UCC2580N-1	296-11378-5-ND	Single Ended Active Clamp/Reset PWM	16-Dip	4.50	3.60	2.80
UCC2580N-2	296-11671-5-ND	Single Ended Active Clamp/Reset PWM	16-Dip	4.50	3.60	2.80
UCC2580N-3	296-11672-5-ND	Single Ended Active Clamp/Reset PWM	16-Dip	4.50	3.60	2.80
UCC2580N-4	296-11673-5-ND	Single Ended Active Clamp/Reset PWM	16-Dip	4.50	3.60	2.80
UCC2581D	296-11379-5-ND	Micropower Voltage Mode PWM	14-SOIC	4.07	3.26	2.54
UCC2583D	296-12392-5-ND	Switch Mode Secondary Side Post Regulator	14-SOP	4.07	3.26	2.54
UCC2583N	296-12115-5-ND	Switch Mode Secondary Side Post Regulator	14-Dip	5.52	4.42	3.73
UCC2800D	296-11380-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2800N	296-11381-5-ND	LP BICMOS Current-Mode PWM	8-Dip	3.49	2.79	2.17
UCC2801D	296-11382-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2801N	296-11383-5-ND	LP BICMOS Current-Mode PWM	8-Dip	3.49	2.79	2.17
UCC2802D	296-11384-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2802N	296-11385-5-ND	LP BICMOS Current-Mode PWM	8-Dip	3.49	2.79	2.17
UCC2803D	296-11386-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	3.22	2.58	2.01
UCC2803N	296-11387-5-ND	LP BICMOS Current-Mode PWM	8-Dip	3.49	2.79	2.17

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC2804D	296-11388-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	3.22	2.58	2.01
UCC2804N	296-11389-5-ND	LP BICMOS Current-Mode PWM	8-Dip	3.22	2.58	2.01
UCC2805D	296-11390-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2805N	296-11675-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.49	2.79	2.17
UCC2805PW	296-13532-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.58	2.87	2.23
UCC2806DW	296-11391-5-ND	Low Power, Dual Output, Current-Mode PWM	16-SOIC	9.20	7.36	6.21
UCC2806M	296-11676-5-ND	Low Power, Dual-Output, Current-Mode PWM	16-SSOP	9.20	7.36	6.21
UCC2806PW	296-12393-5-ND	Low Power, Dual Output, Current-Mode PWM Controller	16-TSSOP	9.20	7.36	6.21
UCC2807D-1	296-11393-5-ND	Programmable Duty Cycle PWM	8-SOIC	4.07	3.26	2.54
UCC2807D-2	296-2533-5-ND	Programmable Max-Duty PWM	8-SOP	4.07	3.26	2.54
UCC2807D-3	296-11678-5-ND	Programmable Max-Duty PWM	8-SOIC	4.07	3.26	2.54
UCC2807N-2	296-11394-5-ND	Programmable Duty Cycle PWM	8-Dip	4.07	3.26	2.54
UCC2808AD-1	296-11395-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.70	2.16	1.68
UCC2808AD-2	296-11396-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.70	2.16	1.68
UCC2808AN-1	296-11397-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.70	2.16	1.68
UCC2808AN-2	296-11398-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.70	2.16	1.68
UCC2808APW-1	296-11679-5-ND	Current-Mode Push/Pull PWM	8-TSSOP	2.70	2.16	1.68
UCC2808APW-2	296-11680-5-ND	Current-Mode Push/Pull PWM	8-TSSOP	2.70	2.16	1.68
UCC2808D-1	296-2534-5-ND	Current-Mode Push/Pull PWM	8-SOIC	2.70	2.16	1.68
UCC2808D-2	296-2535-5-ND	Current-Mode Push/Pull PWM	8-SOIC	2.70	2.16	1.68
UCC2808N-1	296-11399-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.70	2.16	1.68
UCC2808N-2	296-11400-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.70	2.16	1.68
UCC2809D-1	296-11401-5-ND	Economy Primary Side Controller	8-SOIC	2.08	1.66	1.25
UCC2809D-2	296-11681-5-ND	Primary Side Controller	8-SOIC	2.08	1.66	1.25
UCC2809P-1	296-11402-5-ND	Economy Primary Side Controller	8-MSOP	2.08	1.66	1.25
UCC2809P-2	296-11403-5-ND	Economy Primary Side Controller	8-MSOP	2.08	1.66	1.25
UCC2810DW	296-2536-5-ND	Dual Channel Synchronous Current-Mode PWM	16-SOIC	6.16	4.93	4.16
UCC2810N	296-11404-5-ND	Dual Channel Synchronous Current-Mode PWM	16-Dip	6.16	4.93	4.16
UCC2813D-0	296-11682-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.66	2.13	1.66
UCC2813D-1	296-11405-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.66	2.13	1.66
UCC2813D-2	296-11406-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.66	2.13	1.66
UCC2813D-3	296-11407-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.66	2.13	1.66
UCC2813D-4	296-11408-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.66	2.13	1.66
UCC2813D-5	296-11409-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.66	2.13	1.66
UCC2813N-0	296-12055-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.66	2.13	1.66
UCC2813N-1	296-12056-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.66	2.13	1.66
UCC2813N-2	296-12057-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.66	2.13	1.66
UCC2813N-4	296-12058-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.66	2.13	1.66
UCC2813N-5	296-12059-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.66	2.13	1.66
UCC2813PW-0	296-12060-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.66	2.13	1.66
UCC2813PW-1	296-12061-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.66	2.13	1.66
UCC2813PW-2	296-12062-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.66	2.13	1.66
UCC2813PW-3	296-12063-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.66	2.13	1.66
UCC2813PW-4	296-12064-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.66	2.13	1.66
UCC2813PW-5	296-12065-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.66	2.13	1.66
UCC2817D	296-11410-5-ND	Power Factor Pre-Regulator	16-SOP	2.48	1.98	1.54
UCC2817DW	296-11411-5-ND	Power Factor Pre-Regulator	16-SOP	2.48	1.98	1.54
UCC2818D	296-13428-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.48	1.98	1.54
UCC2818DW	296-11412-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.48	1.98	1.54
UCC2819D	296-12537-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.48	1.98	1.54
UCC2819N	296-12538-5-ND	BiCMOS Power Factor Pre-Regulator	16-Dip	2.48	1.98	1.54
UCC2895DW	296-2537-5-ND	BiCMOS Advanced Phase Shift Resonant Controller	20-SOIC	9.32	7.46	6.30
UCC2895N	296-11418-5-ND	BiCMOS Advanced Phase Shift Resonant Controller	20-Dip	9.32	7.46	6.30
UCC2895PW	296-11419-5-ND	BiCMOS Advanced Phase Shift Resonant Controller	20-TSSOP	9.42	7.54	6.36
UCC2960D	296-11421-5-ND	Primary Side Startup Controller	8-SOIC	2.79	2.24	1.74
UCC2960P	296-11422-5-ND	Primary Side Startup Controller	8-Dip	2.79	2.24	1.74
UCC2961D	296-11423-5-ND	Adv. Primary Side Startup Controller	14-SOIC	2.99	2.40	1.87
UCC2961N	296-11424-5-ND	Adv. Primary Side Startup Controller	14-Dip	2.99	2.40	1.87
UCC2975PW	296-13437-5-ND	Multi-Topology Piezoelectric Transformer Controller	8-TSSOP	3.96	3.17	2.47
UCC2976PW	296-12539-5-ND	3-13.5V Multi-Topology Transformer Controller	8-TSSOP	3.96	3.17	2.47
UCC2977PW	296-12540-5-ND	3-13.5V Multi-Topology Transformer Controller	8-TSSOP	3.96	3.17	2.47
UCC3580D-1	296-11436-5-ND	Active Clamp/Reset PWM	16-SOIC	4.82	3.86	3.00
UCC3580D-2	296-11437-5-ND	Active Clamp/Reset PWM	16-SOIC	4.82	3.86	3.00
UCC3580D-3	296-11438-5-ND	Active Clamp/Reset PWM	16-SOIC	4.82	3.86	3.00
UCC3580D-4	296-11439-5-ND	Active Clamp/Reset PWM	16-SOIC	4.82	3.86	3.00
UCC3580N-1	296-11440-5-ND	Active Clamp/Reset PWM	16-Dip	4.82	3.86	3.00
UCC3580N-2	296-11441-5-ND	Active Clamp/Reset PWM	16-Dip	4.82	3.86	3.00
UCC3580N-3	296-11442-5-ND	Active Clamp/Reset PWM	16-Dip	4.82	3.86	3.00
UCC3580N-4	296-11443-5-ND	Active Clamp/Reset PWM	16-SOP	4.82	3.86	3.00
UCC3581D	296-11444-5-ND	Micropower Voltage Mode PWM	14-SOIC	3.44	2.76	2.15
UCC3581N	296-11445-5-ND	Micropower Voltage Mode PWM	14-Dip	3.44	2.76	2.15
UCC3583D	296-11446-5-ND	Switch Mode Secondary Side Post Regulator	14-SOIC	4.28	3.42	2.66
UCC3583N	296-11447-5-ND	Switch Mode Secondary Side Post Regulator	14-Dip	4.28	3.42	2.66
UCC3588D	296-2540-5-ND	5-Bit, Programmable Output BiCMOS Power Supply Controller	16-SOIC	4.23	3.39	2.64
UCC3588PW	296-13438-5-ND	5-Bit, Programmable Output BiCMOS Power Supply Controller	16-TSSOP	4.23	3.39	2.64
UCC3626DW	296-11452-5-ND	Brushless DC Motor Controller	28-SOIC	9.20	8.28	7.35
UCC3626PW	296-11453-5-ND	Brushless DC Motor Controller	28-TSSOP	9.28	8.36	7.41
UCC3800D	296-11457-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	2.41	1.93	1.50
UCC3800N	296-11458-5-ND	LP BICMOS Current-Mode PWM	8-Dip	2.41	1.93	1.50
UCC3800PW	296-11459-5-ND	Low Power BICMOS Current-Mode PWM	8-TSSOP	2.52	2.02	1.57
UCC3801D	296-11460-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	2.41	1.93	1.50
UCC3801N	296-11461-5-ND	LP BICMOS Current-Mode PWM	8-Dip	2.41	1.93	1.50
UCC3801PW	296-11462-5-ND	Low Power BICMOS Current-Mode PWM	8-TSSOP	2.52	2.02	1.57
UCC3802D	296-11463-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	2.41	1.93	1.50
UCC3802N	296-11464-5-ND	LP BICMOS Current-Mode PWM	8-Dip	2.41	1.93	1.50
UCC3802PW	296-11465-5-ND	Low Power BICMOS Current-Mode PWM	8-TSSOP	2.52	2.02	1.57
UCC3803D	296-12195-5-ND	Low Power BiCMOS Current-Mode PWM	8-SOIC	2.41	1.93	1.50
UCC3803N	296-11466-5-ND	Low Power BiCMOS Current-Mode PWM	8-Dip	2.41	1.93	1.50
UCC3803PW	296-11467-5-ND	Low Power BiCMOS Current-Mode PWM	8-TSSOP	2.52	2.02	1.57
UCC3804D	296-11468-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	2.41	1.93	1.50
UCC3804N	296-11469-5-ND	LP BICMOS Current-Mode PWM	8-Dip	2.41	1.93	1.50
UCC3804PW	296-11470-5-ND	LP BICMOS Current-Mode PWM	8-TSSOP	2.52	2.02	1.57
UCC3805D	296-11471-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	2.41	1.93	1.50
UCC3805N	296-11472-5-ND	LP BICMOS Current-Mode PWM	8-Dip	2.41	1.93	1.50
UCC3805PW	296-11473-5-ND	LP BICMOS Current-Mode PWM	8-TSSOP	2.52	2.02	1.57
UCC3806DW	296-11474-5-ND	Low Power Dual Output Current-Mode PWM	16-SOIC	7.38	5.91	4.99
UCC3806N	296-11475-5-ND	Low Power Dual Output Current-Mode PWM	16-Dip	7.38	5.91	4.99
UCC3806Q	296-11476-5-ND	Low Power Dual Output Current-Mode PWM	20-PLCC	7.38	5.91	4.99
UCC3807D-1	296-2541-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.76	3.01	2.34
UCC3807D-2	296-2542-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.76	3.01	2.34
UCC3807D-3	296-2543-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.76	3.01	2.34
UCC3807N-1	296-11477-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.76	3.01	2.34
UCC3807N-2	296-11478-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.76	3.01	2.34
UCC3807N-3	296-11479-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.76	3.01	2.34
UCC3808AD-1	296-11480-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.57	2.06	1.60
UCC3808AD-2	296-11481-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.57	2.06	1.60
UCC3808AN-1	296-13439-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.57	2.06	1.60
UCC3808AN-2	296-11482-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.57	2.06	1.60
UCC3808APW-1	296-11684-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	2.57	2.06	1.60
UCC3808APW-2	296-11685-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	2.57	2.06	1.60
UCC3808D-1	296-2544-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.57	2.06	1.60
UCC3808D-2	296-2545-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.57	2.06	1.60
UCC3808N-1	296-11483-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.57	2.06	1.60
UCC3808N-2	296-11484-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.57	2.06	1.60
UCC3809D-1	296-11485-5-ND	Economy Primary Side Controller	8-SOIC	1.88	1.50	1.13
UCC3809D-2	296-11486-5-ND	Economy Primary Side Controller	8-SOIC	1.88	1.50	1.13
UCC3809N-1	296-11487-5-ND	Economy Primary Side Controller	8-Dip	1.88	1.50	1.13
UCC3809N-2	296-11488-5-ND	Economy Primary Side Controller	8-Dip	1.88	1.50	1.13
UCC3809P-1	296-11489-5-ND	Economy Primary Side Controller	8-MSOP	1.88	1.50	1.13
UCC3809P-2	296-13440-5-ND	Economy Primary Side Controller	8-MSOP	1.88	1.50	1.13
UCC3809PW-1	296-11490-5-ND	Economy Primary Side Controller	8-TSSOP	1.88	1.50	1.13
UCC3809PW-2	296-12395-5-ND	Economy Primary Side Controller	8-TSSOP	1.88	1.50	1.13
UCC3810DW	296-2546-5-ND	2-Channel Sync. Current-Mode PWM	16-SOIC	3.67	2.94	2.29
UCC3810N	296-11491-5-ND	2-Channel Sync. Current-Mode PWM	16-Dip	3.67	2.94	2.29
UCC3813D-0	296-11492-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	1.75	1.40	1.05
UCC3813D-1	296-11493-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	1.75	1.40	1.05
UCC3813D-2	296-11494-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	1.75	1.40	1.05
UCC3813D-3	296-11495-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	1.75	1.40	1.05
UCC3813D-4	296-11496-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	1.75	1.40	1.05
UCC3813D-5	296-11497-5-ND	LP BICMOS Current-Mode PWM	8-SOIC	1.75	1.40	1.05
UCC3813N-0	296-11498-5-ND	LP BICMOS Current-Mode PWM	8-Dip	1.75	1.40	1.05
UCC3813N-1	296-11499-5-ND	LP BICMOS Current-Mode PWM	8-Dip	1.75	1.40	1.05
UCC3813N-2	296-11500-5-ND	LP BICMOS Current-Mode PWM	8-Dip	1.75	1.40	1.05
UCC3813N-3	296-11501-5-ND	LP BICMOS Current-Mode PWM	8-Dip	1.75	1.40	1.05
UCC3813N-4	296-11502-5-ND	LP BICMOS Current-Mode PWM	8-Dip	1.75	1.40	1.05
UCC3813N-5	296-11503-5-ND	LP BICMOS Current-Mode PWM	8-Dip	1.75	1.40	1.05
UCC3813PW-0	296-11504-5-ND	LP BICMOS Current-Mode PWM	8-TSSOP	1.75	1.40	1.05
UCC3813PW-1	296-11505-5-ND	LP BICMOS Current-Mode PWM	8-TSSOP	1.75	1.40	1.05
UCC3813PW-2	296-11506-5-ND	LP BICMOS Current-Mode PWM	8-TSSOP	1.75	1.40	1.05
UCC3813PW-3	296-11507-5-ND	LP BICMOS Current-Mode PWM	8-TSSOP	1.75	1.40	1.05
UCC3813PW-4	296-11508-5-ND	LP BICMOS Current-Mode PWM	8-TSSOP	1.75	1.40	1.05
UCC3813PW-5	296-11509-5-ND	LP BICMOS Current-Mode PWM	8-TSSOP	1.75	1.40	1.05
UCC3817D	296-2547-5-ND	Power Factor Pre-Regulator	16-SOP	2.30	1.84	1.43
UCC3817DW	296-11510-5-ND	Power Factor Pre-Regulator	16-SOIC	2.30	1.84	1.43
UCC3817N	296-11512-5-ND	Power Factor Pre-Regulator	16-Dip	2.30	1.84	1.43
UCC3818D	296-11513-5-ND	Power Factor Pre-Regulator	16-SOIC	2.30	1.84	1.43
UCC3818DW	296-11514-5-ND	Power Factor Pre-Regulator	16-SOIC	2.30	1.84	1.43
UCC3818N	296-11515-5-ND	Power Factor Pre-Regulator	16-Dip	2.30	1.84	1.43
UCC3837D	296-2548-5-ND	N-FET Supply Controller	8-SOIC	3.94	3.15	2.45
UCC3839D	296-11516-5-ND	Secondary Side Average Current Mode Controller	14-SOIC	3.58	2.87	2.23
UCC3839N	296-11517-5-ND	Secondary Side Average Current Mode Controller	14-Dip	3.58	2.87	2.23
UCC3884D	296-2551-5-ND	Current-Mode PWM Controller	16-SOIC	3.24	2.60	2.02
UCC3884N	296-11530-5-ND	Current-Mode PWM Controller	16-Dip	3.24	2.60	2.02
UCC3888D	296-11531-5-ND	Off-Line Power Supply Controller	8-SOIC	2.05	1.64	1.23
UCC3888N	296-11532-5-ND	Off-Line Power Supply Controller	8-Dip	2.05	1.64	1.23
UCC3889D	296-11533-5-ND	Off-Line Power Supply Controller	8-SOIC	1.95	1.56	1.17
UCC3889N	296-11534-5-ND	Off-Line Power Supply Controller	8-Dip	1.95	1.56	1.17
UCC3895DW	296-2552-5-ND	Phase Shift PWM Controller	20-SOIC	7.78	6.23	5.26
UCC3895N	296-11538-5-ND	Phase Shift PWM Controller	20-Dip	7.78	6.23	5.26
UCC3895PW	296-11686-5-ND	Phase Shift PWM Controller	20-TSSOP	7.88	6.31	5.32
UCC3895Q	296-11539-5-ND	Phase Shift PWM Controller	20-PLCC	7.78	6.23	5.26
UCC3960D	296-11561-5-ND	Primary Side Startup Controller	8-SOIC	2.54	2.04	1.59
UCC3960P	296-11562-5-ND	Primary Side Startup Controller	8-Dip	2.54	2.04	1.59
UCC3961D	296-11563-5-ND	Adv. Primary Side Startup Controller	14-SOIC	2.77	2.22	1.73
UCC3961N	296-11564-5-ND	Adv. Primary Side Startup Controller	14-Dip	2.77	2.22	1.73
UCC25701D	296-11363-5-ND	Advanced Voltage-Mode PWM	14-SOIC	5.60	4.48	3.78
UCC25701N	296-11364-5-ND	Advanced Voltage-Mode PWM	14-Dip	5.60	4.48	3.78
UCC25701PW	296-11365-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	5.70	4.56	3.85
UCC25702D	296-12194-5-ND	Advanced Voltage-Mode PWM	14-SOIC	5.60	4.48	3.78
UCC25702N	296-11366-5-ND	Advanced Voltage-Mode PWM	14-Dip	5.60	4.48	3.78
UCC25702PW	296-11367-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	5.70	4.56	3.85
UCC25705D	296-11368-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.43	1.95	1.52
UCC25705DGK	296-12175-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.43	1.95	1.52
UCC25705P	296-11369-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.43	1.95	1.52
UCC25706D	296-11370-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.43	1.95	1.52
UCC25706DGK	296-11371-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.43	1.95	1.52
UCC25706P	296-12114-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.43	1.95	1.52
UCC28050D	296-13708-5-ND	Transition Mode PFC Controller	8-SOIC	1.70	1.36	1.02
UCC28050P	296-13709-5-ND	Transition Mode PFC Controller	8-Dip	1.70	1.36	1.02
UCC28083D	296-13676-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC28083P	296-13677-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28083PW	296-14333-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation *NEW!*	8-TSSOP	2.70	2.16	1.68
UCC28084D	296-13678-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28084P	296-13679-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28084PW	296-14334-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation *NEW!*	8-TSSOP	2.70	2.16	1.68
UCC28085D	296-13680-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28085P	296-13681-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28085PW	296-14335-5-ND	Current Mode Push Pull PWM Controller Controller with Prog. Slope Compensation *NEW!*	8-TSSOP	2.70	2.16	1.68
UCC28086D	296-13682-5-ND	Current Mode Push Pull PWM Controller w/Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28086P	296-13683-5-ND	Current Mode Push Pull PWM Controller w/Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28510DW	296-14218-5-ND	PFC/PWM Combination Controller *NEW!*	20-SOIC	3.62	2.90	2.26
UCC28510N	296-14219-5-ND	PFC/PWM Combination Controller *NEW!*	20-Dip	3.62	2.90	2.26
UCC28511DW	296-14220-5-ND	PFC/PWM Combination Controller *NEW!*	20-SOIC	3.62	2.90	2.26
UCC28511N	296-14221-5-ND	PFC/PWM Combination Controller *NEW!*	20-Dip	3.62	2.90	2.26
UCC28512DW	296-14222-5-ND	PFC/PWM Combination Controller *NEW!*	20-SOIC	3.62	2.90	2.26
UCC28512N	296-14223-5-ND	PFC/PWM Combination Controller *NEW!*	20-Dip	3.62	2.90	2.26
UCC28513DW	296-14224-5-ND	PFC/PWM Combination Controller *NEW!*	20-SOIC	3.62	2.90	2.26
UCC28513N	296-14225-5-ND	PFC/PWM Combination Controller *NEW!*	20-Dip	3.62	2.90	2.26
UCC28514DW	296-14226-5-ND	PFC/PWM Combination Controller *NEW!*	20-SOIC	3.62	2.90	2.26
UCC28514N	296-14227-5-ND	PFC/PWM Combination Controller *NEW!*	20-Dip	3.62	2.90	2.26
UCC28515DW	296-14228-5-ND	PFC/PWM Combination Controller *NEW!*	20-SOIC	3.62	2.90	2.26
UCC28515N	296-14229-5-ND	PFC/PWM Combination Controller *NEW!*	20-Dip	3.62	2.90	2.26
UCC28516DW	296-14230-5-ND	PFC/PWM Combination Controller *NEW!*	20-SOIC	3.62	2.90	2.26
UCC28516N	296-14231-5-ND	PFC/PWM Combination Controller *NEW!*	20-Dip	3.62	2.90	2.26
UCC28517DW	296-14232-5-ND	PFC/PWM Combination Controller *NEW!*	20-SOIC	3.62	2.90	2.26
UCC28517N	296-14233-5-ND	PFC/PWM Combination Controller *NEW!*	20-Dip	3.62	2.90	2.26
UCC29002D	296-13024-5-ND	Advanced Load Share Controller	8-SOIC	2.20	1.76	1.32
UCC29002DGK	296-13025-5-ND	Advanced Load Share Controller	8-MSOP	2.20	1.76	1.32
UCC29002P	296-13026-5-ND	Advanced Load Share Controller	8-Dip	2.20	1.76	1.32
UCC29421N	296-2538-5-ND	Multimode High-Freq. PWM Controller	16-Dip	2.97	2.38	1.85
UCC29421PW	296-12394-5-ND	Multimode High Frequency Synchronous Controller	20-TSSOP	4.37	3.50	2.72
UCC29422N	296-2539-5-ND	Multimode High-Freq. PWM Controller	16-Dip	4.25	3.41	2.65
UCC35701D	296-11425-5-ND	Advanced Voltage-Mode PWM	14-SOIC	4.10	3.28	2.55
UCC35701N	296-11426-5-ND	Advanced Voltage-Mode PWM	14-Dip	4.10	3.28	2.55
UCC35701PW	296-11427-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	4.21	3.37	2.62
UCC35702D	296-11428-5-ND	Advanced Voltage-Mode PWM	14-SOIC	4.12	3.30	2.57
UCC35702N	296-11429-5-ND	Advanced Voltage-Mode PWM	14-Dip	4.12	3.30	2.57
UCC35702PW	296-11430-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	4.23	3.39	2.64
UCC35705D	296-11431-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.38	1.90	1.43
UCC35705DGK	296-11683-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.38	1.90	1.43
UCC35705P	296-11432-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.38	1.90	1.43
UCC35706D	296-11433-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.38	1.90	1.43
UCC35706DGK	296-11434-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.38	1.90	1.43
UCC38050D	296-13710-5-ND	Transition Mode PFC Controller	8-SOIC	1.55	1.24	.93
UCC38050P	296-13711-5-ND	Transition Mode PFC Controller	8-Dip	1.55	1.24	.93
UCC38083D	296-13690-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.57	2.06	1.60
UCC38083P	296-13691-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.57	2.06	1.60
UCC38083PW	296-14336-5-ND	Current Mode Push-Pull PWM Controller with Slope Compensation *NEW!*	8-TSSOP	2.57	2.06	1.60
UCC38084D	296-13692-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.57	2.06	1.60
UCC38084P	296-13693-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.57	2.06	1.60
UCC38084PW	296-14337-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation *NEW!*	8-TSSOP	2.57	2.06	1.60
UCC38085D	296-13694-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.57	2.06	1.60
UCC38085P	296-13695-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.57	2.06	1.60
UCC38085PW	296-14338-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation *NEW!*	8-TSSOP	2.57	2.06	1.60
UCC38086D	296-13696-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.57	2.06	1.60
UCC38086P	296-13697-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.57	2.06	1.60
UCC38086PW	296-14339-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation *NEW!*	8-TSSOP	2.57	2.06	1.60
UCC38500DW	296-11518-5-ND	BICMOS Combined PFC/PWM Controller	20-SOIC	3.11	2.49	1.94
UCC38500N	296-11520-5-ND	BICMOS Combined PFC/PWM Controller	20-Dip	3.11	2.49	1.94
UCC38501DW	296-11521-5-ND	BICMOS Combined PFC/PWM Controller	20-SOIC	4.79	3.84	2.99
UCC38501N	296-11522-5-ND	BICMOS Combined PFC/PWM Controller	20-Dip	4.79	3.84	2.99
UCC38502DW	296-12404-5-ND	BICMOS Combined PFC/PWM Controller	20-SOIC	4.79	3.84	2.99
UCC38502N	296-11523-5-ND	BICMOS Combined PFC/PWM Controller	20-Dip	4.79	3.84	2.99
UCC38503DW	296-12046-5-ND	BICMOS Combined PFC/PWM Controller	20-SOIC	4.79	3.84	2.99
UCC38503N	296-11524-5-ND	BICMOS Combined PFC/PWM Controller	20-Dip	4.79	3.84	2.99
UCC39002D	296-13027-5-ND	Advanced Load Share Controller	8-SOIC	2.13	1.70	1.28
UCC39002P	296-13029-5-ND	Advanced Load Share Controller	8-Dip	2.13	1.70	1.28
UCC39421N	296-11545-5-ND	Multimode Hi-Freq. PWM Controller	16-Dip	4.25	3.41	2.65
UCC39421PW	296-2553-5-ND	Multimode Hi-Freq. PWM Controller	16-TSSOP	4.37	3.50	2.72
UCC39422N	296-11546-5-ND	Multimode Hi-Freq. PWM Controller	20-Dip	4.25	3.41	2.65
UCC39422PW	296-2554-5-ND	Multimode Hi-Frequency PWM Controller	20-TSSOP	4.37	3.50	2.72

Schottky Diode Arrays

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UC2610N	296-11161-5-ND	Dual Schottky Diode Bridge	8-Dip	5.20	4.16	3.51
UC3610DW	296-11230-5-ND	Dual Schottky Diode Bridge	16-SOIC	4.75	3.80	2.96
UC3610N	296-11231-5-ND	Dual Schottky Diode Bridge	8-Dip	4.75	3.80	2.96
UC3611DW	296-11233-5-ND	Quad Schottky Diode Array	16-SOIC	3.89	3.12	2.43
UC3611N	296-11234-5-ND	Quad Schottky Diode Array	8-Dip	3.89	3.12	2.43

Voltage References

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM285D-1-2	296-9521-5-ND	1.2V Micropower Voltage Ref..	8-SOP	.90	.75	.60
LM285D-2-5	296-9522-5-ND	2.5V Micropower Voltage Ref..	8-SOP	.90	.75	.60
LM285DR-2-5	296-14592-1-ND	2.5V Micropower Voltage Ref. *NEW!*	8-SOIC	.90	.75	.60
LM285DR-2-5	296-14592-2-ND	2.5V Micropower Voltage Ref. *NEW!*	8-SOIC	975.00/2,500		
LM285LP-1-2	296-9523-5-ND	1.2V Micropower Voltage Reference.	TO-92	.90	.75	.60
LM285LP-2-5	296-9524-5-ND	2.5V Micropower Voltage Reference.	TO-92	.90	.75	.60
LM336BD-2-5	296-9547-5-ND	2.5V Precision Voltage Reference	8-SOP	1.25	1.00	.75
LM336BLP-2-5	296-9548-5-ND	2.5V Precision Voltage Reference	TO-92	1.25	1.00	.75
LM336D-2-5	296-9549-5-ND	2.5V Precision Voltage Reference	8-SOP	1.35	1.13	.90
LM385BD-1-2	296-9556-5-ND	1.2V Micropower Voltage Ref..	8-SOP	.80	.60	.45
LM385BD-2-5	296-9557-5-ND	2.5V Micropower Voltage Ref..	8-SOP	.80	.60	.45
LM385BDR-1-2	296-14603-1-ND	2.5V Micropower Voltage Ref. *NEW!*	8-SOIC	.80	.60	.45
LM385BDR-1-2	296-14603-2-ND	2.5V Micropower Voltage Ref. *NEW!*	8-SOIC	650.00/2,500		
LM385BLP-1-2	296-9558-5-ND	1.2V Micropower Voltage Reference.	TO-92	.80	.60	.45
LM385BLP-2-5	296-9559-5-ND	2.5V Micropower Voltage Reference.	TO-92	.80	.60	.45
LM385BPWR-1-2	296-13073-1-ND	1.2V Micropower Voltage Reference	8-TSSOP	.80	.60	.45
LM385BPWR-1-2	296-13073-2-ND	1.2V Micropower Voltage Reference	8-TSSOP	532.00/2,000		
LM385BPWR-2-5	296-13074-1-ND	2.5V Micropower Voltage Reference	8-TSSOP	.80	.60	.45
LM385BPWR-2-5	296-13074-2-ND	2.5V Micropower Voltage Reference	8-TSSOP	532.00/2,000		
LM385D-1-2	296-9560-5-ND	1.2V Micropower Voltage Reference.	8-SOP	.80	.60	.45
LM385D-2-5	296-9561-5-ND	2.5V Micropower Voltage Reference.	8-SOP	.80	.60	.45
LM385LP-1-2	296-9562-5-ND	1.2V Micropower Voltage Reference.	TO-92	.80	.60	.45
LM385LP-2-5	296-9563-5-ND	2.5V Micropower Voltage Reference.	TO-92	.80	.60	.45
LM385PWR-1-2	296-13075-1-ND	1.2V Micropower Voltage Reference	8-TSSOP	.80	.60	.45
LM385PWR-1-2	296-13075-2-ND	1.2V Micropower Voltage Reference	8-TSSOP	532.00/2,000		
LM385PWR-2-5	296-13076-1-ND	2.5V Micropower Voltage Reference	8-TSSOP	.80	.60	.45
LM385PWR-2-5	296-13076-2-ND	2.5V Micropower Voltage Reference	8-TSSOP	532.00/2,000		
LT1004CD-1-2	296-9580-5-ND	1.2V Micropower Integrated Voltage Reference.	8-SOP	.90	.75	.60
LT1004CD-2-5	296-9581-5-ND	2.5V Micropower Integrated Voltage Reference.	8-SOP	.90	.75	.60
LT1004CDR-1-2	296-14610-1-ND	1.2V Micropower Integrated Voltage Reference *NEW!*	8-SOIC	.90	.75	.60
LT1004CDR-1-2	296-14610-2-ND	1.2V Micropower Integrated Voltage Reference *NEW!*	8-SOIC	975.00/2,500		
LT1004CLP-1-2	296-9582-5-ND	1.2V Micropower Integrated Voltage Reference.	TO-92	.90	.75	.60
LT1004CLP-2-5	296-9583-5-ND	2.5V Micropower Integrated Voltage Reference.	TO-92	.90	.75	.60
LT1004CPWR-1-2	296-13077-1-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	.90	.75	.60
LT1004CPWR-1-2	296-13077-2-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	798.00/2,000		
LT1004CPWR-2-5	296-13078-1-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	.90	.75	.60
LT1004CPWR-2-5	296-13078-2-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	798.00/2,000		
LT1004ID-2-5	296-9584-5-ND	2.5V Micropower Integrated Voltage Reference.	8-SOP	1.38	1.10	.83
LT1004IPWR-1-2	296-13079-1-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	1.38	1.10	.83
LT1004IPWR-1-2	296-13079-2-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	1430.00/2,000		
LT1004IPWR-2-5	296-13080-1-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	1.38	1.10	.83
LT1004IPWR-2-5	296-13080-2-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	1430.00/2,000		
LT1009CDR	296-14611-1-ND	2.5V Integrated Ref. Circuit *NEW!*	8-SOIC	1.02	.85	.68
LT1009CDR	296-14611-2-ND	2.5V Integrated Ref. Circuit *NEW!*	8-SOIC	1105.00/2,500		
LT1009CLP	296-9585-5-ND	2.5V Integrated Ref. Circuit	TO-92	1.02	.85	.68
LT1009CLPR	296-14612-1-ND	2.5V Integrated Ref. Circuit *NEW!*	8-SOIC	1.02	.85	.68
LT1009CLPR	296-14612-2-ND	2.5V Integrated Ref. Circuit *NEW!*	8-SOIC	904.00/2,000		
LT1009CPWR	296-13081-1-ND	2.5V Integrated Ref. Circuit	8-TSSOP	1.02	.85	.68
LT1009CPWR	296-13081-2-ND	2.5V Integrated Ref. Circuit	8-TSSOP	904.00/2,000		
LT1009ID	296-9586-5-ND	2.5V Integrated Ref. Circuit	8-SOP	1.17	.98	.78
LT1009IDR	296-14613-1-ND	2.5V Integrated Ref. Circuit *NEW!*	8-SOIC	1.17	.98	.78
LT1009IDR	296-14613-2-ND	2.5V Integrated Ref. Circuit *NEW!*	8-SOIC	1267.50/2,500		
LT1009ILP	296-9587-5-ND	2.5V Integrated Ref. Circuit	TO-92	1.17	.98	.78
LT1009ILPR	296-14614-1-ND	2.5V Integrated Ref. Circuit *NEW!*	8-SOIC	1.17	.98	.78
LT1009ILPR	296-14614-2-ND	2.5V Integrated Ref. Circuit *NEW!*	8-SOIC	1038.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
REF02AP	296-12732-5-ND	+5V Precision Voltage Reference	8-Dip	3.53	2.83	2.20
REF02AU	REF02AU-ND	+5V Voltage Reference	8-SOIC	3.53	2.83	2.20
REF02BP	REF02BP-ND	+5V Precision Voltage Reference	8-Dip	4.86	3.89	3.03
REF02BU	REF02BU-ND	+5V Voltage Reference	8-SOIC	4.86	3.89	3.03
REF102AP	REF102AP-ND	+10V Precision Voltage Reference	8-Dip	3.53	2.83	2.20
REF102AU	REF102AU-ND	+10V Precision Voltage Reference	8-SOIC	3.53	2.83	2.20
REF102BP	REF102BP-ND	10V Precision Voltage Reference	8-Dip	7.88	6.31	5.32
REF200AU	REF200AU-ND	Dual Current Source/Current Sink	8-SOIC	5.22	4.18	3.25
REF1004C-1.2	REF1004C-1.2-ND	1.2V Micropower Voltage Reference	8-SOIC	2.63	2.11	1.64
REF1004C-2.5	REF1004C-2.5-ND	2.5V Micropower Voltage Reference	8-SOIC	2.63	2.11	1.64
REF1004I-1.2	REF1004I-1.2-ND	1.2V Micropower Voltage Reference	8-SOIC	4.93	3.95	3.07
REF1004I-2.5	REF1004I-2.5-ND	2.5V Micropower Voltage Reference	8-SOIC	4.93	3.95	3.07
REF2912AIDBZT	296-13480-1-ND	1.25V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.41	1.18	.94
REF2912AIDBZT	296-13480-2-ND	1.25V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		176.25/250	
REF2920AIDBZT	296-13481-1-ND	2.048V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.41	1.18	.94
REF2920AIDBZT	296-13481-2-ND	2.048V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		176.25/250	
REF2925AIDBZT	296-13482-1-ND	2.5V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.41	1.18	.94
REF2925AIDBZT	296-13482-2-ND	2.5V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		176.25/250	
REF2930AIDBZT	296-13483-1-ND	3.0V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.41	1.18	.94
REF2930AIDBZT	296-13483-2-ND	3.0V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		176.25/250	
REF2933AIDBZT	296-13484-1-ND	3.3V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.41	1.18	.94
REF2933AIDBZT	296-13484-2-ND	3.3V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		176.25/250	
REF2940AIDBZT	296-13485-1-ND	4.096V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.41	1.18	.94
REF2940AIDBZT	296-13485-2-ND	4.096V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		176.25/250	
REF3012AIDBZT	REF3012AIDBZTCT-ND	1.25V, Low Power CMOS Voltage Ref.	SOT-23	1.40	1.12	.84
REF3012AIDBZT	REF3012AIDBZTTR-ND	1.25V, Low Power CMOS Voltage Ref.	SOT-23		196.00/250	
REF3020AIDBZT	REF3020AIDBZTCT-ND	2.0V, Low Power CMOS Voltage Ref.	SOT-23	1.40	1.12	.84
REF3020AIDBZT	REF3020AIDBZTTR-ND	2.0V, Low Power CMOS Voltage Ref.	SOT-23		196.00/250	
REF3025AIDBZT	REF3025AIDBZTCT-ND	2.5V, Low Power CMOS Voltage Ref.	SOT-23	1.40	1.12	.84
REF3025AIDBZT	REF3025AIDBZTTR-ND	2.5V, Low Power CMOS Voltage Ref.	SOT-23		196.00/250	
REF3033AIDBZT	REF3033AIDBZTCT-ND	3.3V, Low Power CMOS Voltage Ref.	SOT-23	1.40	1.12	.84
REF3033AIDBZT	REF3033AIDBZTTR-ND	3.3V, Low Power CMOS Voltage Ref.	SOT-23		196.00/250	
REF3040AIDBZT	REF3040AIDBZTCT-ND	4.0V, Low Power CMOS Voltage Ref.	SOT-23	1.40	1.12	.84
REF3040AIDBZT	REF3040AIDBZTTR-ND	4.0V, Low Power CMOS Voltage Ref.	SOT-23		196.00/250	
TL431ACD	296-1286-5-ND	Adjustable Shunt Regulator	8-SOIC	.40	.32	.24
TL431ACDR	296-1286-1-ND	Adjustable Shunt Regulator	8-SOIC	.40	.32	.24
TL431ACDR	296-1286-2-ND	Adjustable Shunt Regulator	8-SOIC		270.00/2,500	
TL431ACLP	296-1287-ND	Adjustable Shunt Regulator	TO-92	.40	.32	.24
TL431ACLPR	296-1287-1-ND	Adjustable Shunt Regulator	TO-92	.40	.32	.24
TL431ACLPR	296-1287-2-ND	Adjustable Shunt Regulator	TO-92		224.00/2,000	
TL431ACP	296-10182-5-ND	Adjustable Shunt Regulator	8-Dip	.40	.32	.24
TL431ACPSR	296-13352-1-ND	Adjustable Shunt Regulator	8-SOP	.40	.32	.24
TL431ACPSR	296-13352-2-ND	Adjustable Shunt Regulator	8-SOP		224.00/2,000	
TL431ACPWR	296-13353-1-ND	Adjustable Shunt Regulator	8-SSOP	.40	.32	.24
TL431ACPWR	296-13353-2-ND	Adjustable Shunt Regulator	8-SSOP		224.00/2,000	
TL431AID	296-1288-5-ND	Adjustable Shunt Regulator	8-SOIC	.50	.40	.30
TL431AIDR	296-1288-1-ND	Adjustable Shunt Regulator	8-SOIC	.50	.40	.30
TL431AIDR	296-1288-2-ND	Adjustable Shunt Regulator	8-SOIC		337.50/2,500	
TL431AILP	296-10183-5-ND	Adjustable Shunt Regulator	TO-226AA	.50	.40	.30
TL431AILPR	296-10183-1-ND	Adjustable Shunt Regulator	TO-226AA	.50	.40	.30
TL431AILPR	296-10183-2-ND	Adjustable Shunt Regulator	TO-226AA		266.00/2,000	
TL431AIP	296-10184-5-ND	Adjustable Shunt Regulator	8-Dip	.50	.40	.30
TL431CD	296-1289-5-ND	Adjustable Shunt Regulator	8-SOIC	.46	.37	.26
TL431CDR	296-1289-1-ND	Adjustable Shunt Regulator	8-SOIC	.46	.37	.26
TL431CDR	296-1289-2-ND	Adjustable Shunt Regulator	8-SOIC		297.50/2,500	
TL431CDBVR	296-10185-1-ND	Adjustable Shunt Regulator	SOT-23-5	.46	.37	.26
TL431CDBVR	296-10185-2-ND	Adjustable Shunt Regulator	SOT-23-5		357.00/3,000	
TL431CLP	296-1290-ND	Adjustable Shunt Regulator	TO-92	.46	.37	.26
TL431CLPR	296-1290-1-ND	Adjustable Shunt Regulator	TO-92	.46	.37	.26
TL431CLPR	296-1290-2-ND	Adjustable Shunt Regulator	TO-92		252.00/2,000	
TL431CP	296-1798-5-ND	Adjustable Shunt Regulator	8-Dip	.46	.37	.26
TL431CPK	296-1991-1-ND	Adjustable Shunt Regulator	3-Sip	.46	.37	.26
TL431CPWR	296-12497-1-ND	Adjustable Shunt Regulator	8-TSSOP	.46	.37	.26
TL431CPWR	296-12497-2-ND	Adjustable Shunt Regulator	8-TSSOP		252.00/2,000	
TL431IDBVR	296-10187-1-ND	Adjustable Shunt Regulator	SOT-23-5	.40	.32	.24
TL431IDBVR	296-10187-2-ND	Adjustable Shunt Regulator	SOT-23-5		324.00/3,000	
TL431IDR	296-1291-1-ND	Adjustable Shunt Regulator	8-SOIC	.40	.32	.24
TL431IDR	296-1291-2-ND	Adjustable Shunt Regulator	8-SOIC		270.00/2,500	
TL431ILP	296-1292-ND	Adjustable Shunt Regulator	TO-92	.40	.32	.24
TL431ILPR	296-1292-1-ND	Adjustable Shunt Regulator	TO-92	.40	.32	.24
TL431ILPR	296-1292-2-ND	Adjustable Shunt Regulator	TO-92		224.00/2,000	
TL431IP	296-10188-5-ND	Adjustable Shunt Regulator	8-Dip	.40	.32	.24
TL431IPK	296-10189-1-ND	Adjustable Shunt Regulator	SOT-89	.40	.32	.24
TL431IPK	296-10189-2-ND	Adjustable Shunt Regulator	SOT-89		112.00/1,000	
TL1431CD	296-10129-5-ND	Adj. Programmable Shunt Reg.	8-SOIC	.81	.68	.54
TL1431CDR	296-10129-1-ND	Adj. Programmable Shunt Reg.	8-SOIC	.81	.68	.54
TL1431CDR	296-10129-2-ND	Adj. Programmable Shunt Reg.	8-SOIC		877.50/2,500	
TL1431CLP	296-10130-5-ND	Adj. Programmable Shunt Reg.	TO-226AA	.81	.68	.54
TL1431CLPR	296-10130-1-ND	Adj. Programmable Shunt Reg.	TO-226AA	.81	.68	.54
TL1431CLPR	296-10130-2-ND	Adj. Programmable Shunt Reg.	TO-226AA		718.00/2,000	
TL1431CPWR	296-12607-1-ND	Adj. Programmable Shunt Reg.	8-TSSOP	.81	.68	.54
TL1431CPWR	296-12607-2-ND	Adj. Programmable Shunt Reg.	8-TSSOP		718.00/2,000	
TL1431QD	296-10131-5-ND	Adj. Programmable Shunt Reg.	8-SOIC	1.78	1.42	1.07
TL1431QLPR	296-10132-1-ND	Adj. Programmable Shunt Reg.	TO-92	1.73	1.38	1.04
TL1431QLPR	296-10132-2-ND	Adj. Programmable Shunt Reg.	TO-92		1794.00/2,000	
TLV431ACDBVR	296-1348-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.76	.57	.43
TLV431AIDBVR	296-1984-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.96	.72	.54
TLV431CDBV	296-10726-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.99	.83	.66
TLV431CDBVR	296-13616-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.72	.54	.41
TLV431CDBVR	296-13616-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5		702.00/3,000	
TLV431IDBVR	296-13617-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.92	.69	.52
TLV431IDBVR	296-13617-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5		897.00/3,000	

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TLV431ILP	296-10729-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.92	.69	.52
UCC561DP	296-12196-5-ND	Low Volt Diff SCSI 27-Line Regulator Set	16-SOIC	4.28	3.42	2.66

Low Dropout Voltage Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
REG101NA-A/250	REG101NA-A/250CT-ND	Adj., 100mA LDO Regulator	SOT-23-5	2.10	1.68	1.26
REG101NA-A/250	REG101NA-A/250TR-ND	Adj., 100mA LDO Regulator	SOT-23-5		294.00/250	
REG101NA-2.5/250	REG101NA-2.5CT-ND	2.5 Volt CMOS 100mA LDO Reg.	SOT-23-5	2.10	1.68	1.26
REG101NA-2.5/250	REG101NA-2.5TR-ND	2.5 Volt CMOS 100mA LDO Reg.	SOT-23-5		294.00/250	
REG101NA-2.8/250	REG101NA-2.8CT-ND	2.8 Volt CMOS 100mA LDO Reg.	SOT-23-5	2.10	1.68	1.26
REG101NA-2.8/250	REG101NA-2.8TR-ND	2.8 Volt CMOS 100mA LDO Reg.	SOT-23-5		294.00/250	
REG101NA-2.85/250	REG101NA-2.85CT-ND	2.85 Volt CMOS 100mA LDO Reg.	SOT-23-5	2.10	1.68	1.26
REG101NA-2.85/250	REG101NA-2.85TR-ND	2.85 Volt CMOS 100mA LDO Reg.	SOT-23-5		294.00/250	
REG101NA-3/250	REG101NA-3CT-ND	3 Volt CMOS 100mA LDO Reg.	SOT-23-5	2.94	2.52	2.31
REG101NA-3/250	REG101NA-3TR-ND	3 Volt CMOS 100mA LDO Reg.	SOT-23-5		294.00/250	
REG101NA-3.3/250	REG101NA-3.3CT-ND	3.3 Volt CMOS 100mA LDO Reg.	SOT-23-5	2.10	1.68	1.52
REG101NA-3.3/250	REG101NA-3.3TR-ND	3.3 Volt CMOS 100mA LDO Reg.	SOT-23-5		294.00/250	
REG101NA-5/250	REG101NA-5CT-ND	5 Volt CMOS 100mA LDO Reg.	SOT-23-5	2.10	1.68	1.26
REG101NA-5/250	REG101NA-5TR-ND	5 Volt CMOS 100mA LDO Reg.	SOT-23-5		294.00/250	
REG101UA-A	REG101UA-A-ND	Adj., 100mA LDO Regulator	8-SOP	2.18	1.74	1.31
REG101UA-2.5	REG101UA-2.5-ND	2.5 Volt CMOS 100mA LDO Reg.	SO-8-50	2.18	1.74	1.31
REG101UA-2.5/2KS	REG101UA-2.5TR-ND	2.5 Volt CMOS 100mA LDO Reg.	SO-8-50		2785.00/2,500	
REG101UA-2.8	REG101UA-2.8-ND	2.8 Volt CMOS 100mA LDO Reg.	SO-8-50	2.18	1.74	1.31
REG101UA-2.8/2KS	REG101UA-2.8TR-ND	2.8 Volt CMOS 100mA LDO Reg.	SO-8-50		2785.00/2,500	
REG101UA-2.85	REG101UA-2.85-ND	2.85 Volt CMOS 100mA LDO Reg.	SO-8-50	2.18	1.74	1.31
REG101UA-3	REG101UA-3-ND	3 Volt CMOS 100mA LDO Reg.	SO-8-50	2.18	1.74	1.31
REG101UA-3/2KS	REG101UA-3TR-ND	3 Volt CMOS 100mA LDO Reg.	SO-8-50		2785.00/2,500	
REG101UA-3.3	REG101UA-3.3-ND	3.3V, 100mA LDO Reg.	8-SOP	2.18	1.74	1.31
REG101UA-5	REG101UA-5-ND	5 Volt CMOS 100mA LDO Reg.	SO-8-50	2.18	1.74	1.31
REG101UA-5/2KS	REG101UA-5TR-ND	5 Volt CMOS 100mA LDO Reg.	SO-8-50		2785.00/2,500	
REG102NA-A/250	REG102NA-A/250CT-ND	Adj., 250mA LDO Reg.	SOT-23-5	2.38	1.90	1.43
REG102NA-A/250	REG102NA-A/250TR-ND	Adj., 250mA LDO Reg.	SOT-23-5		332.50/250	
REG102NA-2.5/250	REG102NA-2.5CT-ND	2.5 Volt CMOS 250mA LDO Reg.	SOT-23-5	2.38	1.90	1.43
REG102NA-2.5/250	REG102NA-2.5TR-ND	2.5 Volt CMOS 250mA LDO Reg.	SOT-23-5		332.50/250	
REG102NA-2.8/250	REG102NA2.8250CT-ND	2.8V, 250mA LDO Regulator	SOT-23-5	2.38	1.90	1.43
REG102NA-2.8/250	REG102NA2.8250TR-ND	2.8V, 250mA LDO Regulator	SOT-23-5		332.50/250	
REG102NA-2.85/250	REG102NA-2.85CT-ND	2.85 Volt CMOS 250mA LDO Reg.	SOT-23-5	2.38	1.90	1.43
REG102NA-2.85/250	REG102NA-2.85TR-ND	2.85 Volt CMOS 250mA LDO Reg.	SOT-23-5		332.50/250	
REG102NA-3/250	REG102NA-3CT-ND	3 Volt CMOS 250mA LDO Reg.	SOT-23-5	2.38	1.90	1.43
REG102NA-3/250	REG102NA-3TR-ND	3 Volt CMOS 250mA LDO Reg.	SOT-23-5		332.50/250	
REG102NA-3.3/250	REG102NA-3.3CT-ND	3.3 Volt CMOS 250mA LDO Reg.	SOT-23-5	2.38	1.90	1.43
REG102NA-3.3/250	REG102NA-3.3TR-ND	3.3 Volt CMOS 250mA LDO Reg.	SOT-23-5		332.50/250	
REG102NA-5/250	REG102NA-5CT-ND	5 Volt CMOS 250mA LDO Reg.	SOT-23-5	2.38	1.90	1.43
REG102NA-5/250	REG102NA-5TR-ND	5 Volt CMOS 250mA LDO Reg.	SOT-23-5		332.50/250	
REG102UA-A	REG102UA-A-ND	Adj., 250mA LDO Regulator	8-SOP	2.48	1.98	1.49
REG102UA-2.5	REG102UA-2.5-ND	2.5V, 250mA LDO Regulator	8-SOP	2.48	1.98	1.49
REG102UA-2.85	REG102UA-2.85-ND	2.85V, 250mA LDO Regulator	8-SOP	2.48	1.98	1.49
REG102UA-3	REG102UA-3-ND	3V, 250mA LDO Regulator	8-SOP	2.48	1.98	1.49
REG102UA-3.3	REG102UA-3.3-ND	3.3V, 250mA LDO Regulator	8-SOP	2.48	1.98	1.49
REG102UA-5	REG102UA-5-ND	5V, 250mA LDO Regulator	8-SOP	2.48	1.98	1.49
REG103FA-A	REG103FA-A-ND	Adjustable LDO Regulator	DDPAK-5	5.04	4.04	3.41
REG103FA-2.5	REG103FA-2.5-ND	2.5 Volt LDO Regulator	DDPAK-5	5.04	4.04	3.41
REG103FA-2.7	REG103FA-2.7-ND	2.7 Volt LDO Regulator	DDPAK-5	5.04	4.04	3.41
REG103FA-3	REG103FA-3-ND	3 Volt LDO Regulator	DDPAK-5	5.04	4.04	3.41
REG103FA-3.3	REG103FA-3.3-ND	3.3 Volt LDO Regulator	DDPAK-5	5.04	4.04	3.41
REG103FA-5	REG103FA-5-ND	5 Volt LDO Regulator	DDPAK-5	5.04	4.04	3.41
REG103GA-A	REG103GA-A-ND	CMOS 500mA LDO Regulator	SOT-223-5	4.48	3.59	2.79
REG103GA-2.5	REG103GA-2.5-ND	2.5 Volt CMOS 500mA LDO Reg.	SOT-223-5	4.48	3.59	2.79
REG103GA-2.7	REG103GA-2.7-ND	2.7 Volt CMOS 500mA LDO Reg.	SOT-223-5	4.48	3.59	2.79
REG103GA-3	REG103GA-3-ND	3 Volt LDO Regulator	SOT-223-5	4.48	3.59	2.79
REG103GA-3.3	REG103GA-3.3-ND	3.3 Volt CMOS 500mA LDO Reg.	SOT-223-5	4.48	3.59	2.79
REG103GA-5	REG103GA-5-ND	5 Volt CMOS 500mA LDO Reg.	SOT-223-5	4.48	3.59	2.79
REG103UA-A	REG103UA-A-ND	Adjustable DMOS LDO Regulator	8-SOIC	4.28	3.42	2.66
REG103UA-2.5	REG103UA-2.5-ND	2.5 Volt CMOS 500mA LDO Reg.	8-SOIC	4.28	3.42	2.66
REG103UA-2.7	REG103UA-2.7-ND	2.7 Volt CMOS 500mA LDO Reg.	8-SOIC	4.28	3.42	2.66
REG103UA-3	REG103UA-3-ND	3 Volt LDO Regulator	8-SOIC	4.28	3.42	2.66
REG103UA-3.3	REG103UA-3.3-ND	3.3 Volt DMOS LDO Regulator	8-SOIC	4.28	3.42	2.66
REG103UA-5	REG103UA-5-ND	5.0 Volt DMOS LDO Regulator	8-SOIC	4.28	3.42	2.66
REG104FA-A	REG104FA-A-ND	Adj., 1000mA LDO Regulator	5-PFM	5.20	4.16	3.51
REG104FA-2.5	REG104FA-2.5-ND	2.5 Volt CMOS 1A LDO Regulator	5-DDPAK	5.20	4.16	3.51
REG104FA-2.5/500	REG104FA-2.5TR-ND	2.5 Volt CMOS 1A LDO Regulator	5-DDPAK		1651.00/500	
REG104FA-2.7	REG104FA-2.7-ND	2.7V, 1000mA LDO Regulator	5-PFM	5.20	4.16	3.51
REG104FA-3	REG104FA-3-ND	3 Volt CMOS 1A LDO Regulator	5-DDPAK	5.20	4.16	3.51
REG104FA-3/500	REG104FA-3TR-ND	3 Volt CMOS 1A LDO Regulator	5-DDPAK		1651.00/500	
REG104FA-3.3	REG104FA-3.3-ND	3.3 Volt CMOS 1A LDO Regulator	5-DDPAK	5.20	4.16	3.51
REG104FA-3.3/500	REG104FA-3.3TR-ND	3.3 Volt CMOS 1A LDO Regulator	5-DDPAK		1651.00/500	
REG104FA-5	REG104FA-5-ND	5 Volt CMOS 1A LDO Regulator	5-DDPAK	5.20	4.16	3.51
REG104FA-5/500	REG104FA-5TR-ND	5 Volt CMOS 1A LDO Regulator	5-DDPAK		1651.00/500	
REG104GA-A	REG104GA-A-ND	Adj., 1000mA LDO Regulator	6-SOP	4.75	3.80	2.96
REG104GA-2.5	REG104GA-2.5-ND	2.5 Volt CMOS 1A LDO Regulator	SOT-223-5	4.75	3.80	2.96
REG104GA-2.5/2K5	REG104GA-2.5TR-ND	2.5 Volt CMOS 1A LDO Regulator	SOT-223-5		6647.50/2,500	
REG104GA-3	REG104GA-3-ND	3 Volt CMOS 1A LDO Regulator	SOT-223-5	4.75	3.80	2.96
REG104GA-3/2K5	REG104GA-3TR-ND	3 Volt CMOS 1A LDO Regulator	SOT-223-5		6725.63/2,500	
REG104GA-3.3	REG104GA-3.3-ND	3.3 Volt CMOS 1A LDO Regulator	SOT-223-5	4.75	3.80	2.96
REG104GA-3.3/2K5	REG104GA-3.3TR-ND	3.3 Volt CMOS 1A LDO Regulator	SOT-223-5		6647.50/2,500	
REG104GA-5	REG104GA-5-ND	5 Volt CMOS 1A LDO Regulator	SOT-223-5	4.75	3.80	2.96
REG104GA-5/2K5	REG104GA-5TR-ND	5 Volt CMOS 1A LDO Regulator	SOT-223-5		6647.50/2,500	
REG113EA2.5/2K5	REG113EA2.52K5CT-ND	2.5 Volt DMOS LDO Regulator	8-TSSOP	2.41	1.93	1.50
REG113EA2.5/2K5	REG113EA2.52K5TR-ND	2.5 Volt DMOS LDO Regulator	8-TSSOP		3370.00/2,500	
REG113EA-2.85/2K5	REG113EA2.852K5CT-ND	2.85V, 400mA LDO Regulator	8-TSSOP	2.41	1.93	1.50
REG113EA-2.85/2K5	REG113EA2.852K5TR-ND	2.85V, 400mA LDO Regulator	8-TSSOP		3370.00/2,500	
REG113EA-3/2K5	REG113EA-3/2K5CT-ND	3 Volt DMOS LDO Regulator	8-TSSOP	2.41	1.93	1.50
REG113EA-3/2K5	REG113EA-3/2K5TR-ND	3 Volt DMOS LDO Regulator	8-TSSOP		3370.00/2,500	
REG113EA-3.3/250	REG113EA3.3/250CT-ND	3.3 Volt DMOS LDO Regulator	8-TSSOP	2.41	1.93	1.50
REG113EA-3.3/250	REG113EA3.3/250TR-ND	3.3 Volt DMOS LDO Regulator	8-TSSOP		355.75/250	
REG113EA-5/2K5	REG113EA-5/2K5CT-ND	5 Volt DMOS LDO Regulator	8-TSSOP	2.41	1.93	1.50
REG113EA-5/2K5	REG113EA-5/2K5TR-ND	5 Volt DMOS LDO Regulator	8-TSSOP		3370.00/2,500	
REG113NA-2.5/3K	REG113NA-2.5/3KCT-ND	2.5V, 400mA LDO Regulator	SOT-23-5	2.05	1.64	1.23
REG113NA-2.5/3K	REG113NA-2.5/3KTR-ND	2.5V, 400mA LDO Regulator	SOT-23-5		3801.00/3,000	
REG113NA-2.85/3K	REG113NA2.853KCT-ND	2.85V, 400mA LDO Regulator	SOT-23-5	2.48	1.98	1.49
REG113NA-2.85/3K	REG113NA2.853KTR-ND	2.85V, 400mA LDO Regulator	SOT-23-5		3801.00/3,000	
REG113NA-3/3K	REG113NA-3/3KCT-ND	3V, 400mA LDO Regulator	SOT-23-5	2.48	1.98	1.49
REG113NA-3/3K	REG113NA-3/3KTR-ND	3V, 400mA LDO Regulator	SOT-23-5		3801.00/3,000	
REG113NA-3.3/3K	REG113NA-3.3/3KCT-ND	3.3V, 400mA LDO Regulator	SOT-23-5	2.48	1.98	1.49
REG113NA-3.3/3K	REG113NA-3.3/3KTR-ND	3.3V, 400mA LDO Regulator	SOT-23-5		3801.00/3,000	

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
REG113NA-5/3K	REG113NA-5/3KCT-ND	5V, 400mA DMOS LDO Regulator	SOT-23-5	2.48	1.98	1.49
REG113NA-5/3K	REG113NA-5/3KTR-ND	5V, 400mA DMOS LDO Regulator	SOT-23-5	3801.00/3,000		
REG1117	REG1117-ND	Adjustable LDO Positive Regulator	SOT-223	1.73	1.38	1.04
REG1117-2.85	REG1117-2.85-ND	2.85 Volt LDO Positive Regulator	SOT-223	1.73	1.38	1.04
REG1117-3.3	REG1117-3.3-ND	3.30 Volt LDO Positive Regulator	SOT-223	1.73	1.38	1.04
REG1117-5	REG1117-5-ND	5 Volt LDO Positive Regulator	SOT-223	1.73	1.38	1.04
REG1117A	REG1117A-ND	1A Adjustable LDO Positive Reg.	SOT-223	1.93	1.54	1.16
REG1117A-1.8	REG1117A-1.8-ND	1.8 Volt 1 Amp LDO Regulator	SOT-223	1.93	1.54	1.16
REG1117A-2.5	REG1117A-2.5-ND	2.5 Volt 1 Amp LDO Regulator	SOT-223	1.93	1.54	1.16
REG1117F-3.3	REG1117F-3.3-ND	3.3 Volt 0.8 Amp LDO Reg.	3-Lead DDPAK	2.27	1.82	1.42
REG1117FA	REG1117FA-ND	Adjustable 1 Amp LDO Reg.	3-Lead DDPAK	2.48	1.98	1.54
REG1117FA-1.8	REG1117FA-1.8-ND	1.8 Volt 1 Amp LDO Regulator	3-Lead DDPAK	2.48	1.98	1.54
REG1117FA-2.5	REG1117FA-2.5-ND	2.5 Volt 1 Amp LDO Regulator	3-Lead DDPAK	2.48	1.98	1.54
REG1117FA-5.0	REG1117FA-5.0-ND	5 Volt 1 Amp LDO Regulator	3-Lead DDPAK	2.48	1.98	1.54
REG1118-2.85	REG1118-2.85-ND	2.85V LDO Reg. with Source/Sink Capability	SOT-223	2.10	1.68	1.26
TL750L05CD	296-8000-5-ND	5V, LDO Pos. Volt. Regulator	8-SOIC	.84	.70	.56
TL750L05CKC	296-8001-5-ND	5V, LDO Pos. Volt. Regulator	TO-220AB	.84	.70	.56
TL750L05CKTER	296-13797-1-ND	5V, LDO Pos. Volt. Regulator	3-PFM	.84	.70	.56
TL750L05CKTER	296-13797-2-ND	5V, LDO Pos. Volt. Regulator	3-PFM	744.00/2,000		
TL750L05CLP	296-8002-5-ND	5V, LDO Pos. Volt. Regulator	TO-92	.84	.70	.56
TL750L08CD	296-8004-5-ND	8V, 150mA LDO Regulator	8-SOIC	.84	.70	.56
TL750L08CLP	296-8005-5-ND	8V, 150mA LDO Regulator	TO-92	.84	.70	.56
TL750L10CD	296-8006-5-ND	10V, 150mA LDO Regulator	8-SOIC	.84	.70	.56
TL750L10CLPR	296-8007-1-ND	10V, 150mA LDO Regulator	TO-92	.84	.70	.56
TL750L10CLPR	296-8007-2-ND	10V, 150mA LDO Regulator	TO-92	744.00/2,000		
TL750L12CD	296-8008-5-ND	12V, 150mA LDO Regulator	8-SOIC	.84	.70	.56
TL750L12CLP	296-8009-5-ND	12V, 150mA LDO Regulator	TO-92	.84	.70	.56
TL751L05CD	296-8011-5-ND	5V, 150mA LDO Regulator	8-SOIC	.99	.83	.66
TL751L10CD	296-8012-5-ND	10V, 150mA LDO Regulator	8-SOIC	.99	.83	.66
TL751L10CP	296-8013-5-ND	10V, 150mA LDO Regulator	8-Dip	.99	.83	.66
TL751L12CD	296-8014-5-ND	12V, 150mA LDO Regulator	8-SOIC	.99	.83	.66
TL7700CPSR	296-8015-1-ND	Supply-Voltage Supervisor	8-SOP	2.81	2.25	1.75
TL7700CPSR	296-8015-2-ND	Supply-Voltage Supervisor	8-SOP	3188.00/2,000		
TLV2217-33KC	296-10502-5-ND	LDO 3.3V PnP Fixed Voltage Reg.	TO-220AB	.84	.70	.56
TLV2217-33KTPR	296-10503-1-ND	LDO 3.3V PnP Fixed Voltage Reg.	2-PFM	.84	.70	.56
TLV2217-33KTPR	296-10503-2-ND	LDO 3.3V PnP Fixed Voltage Reg.	2-PFM	1092.00/3,000		
TLV2217-33PWR	296-12368-1-ND	LDO 3.3V PnP Fixed Voltage Reg.	20-TSSOP	.84	.70	.56
TLV2217-33PWR	296-12368-2-ND	LDO 3.3V PnP Fixed Voltage Reg.	20-TSSOP	744.00/2,000		
TPPM0110DWPR	296-10872-1-ND	5V, 1mA Dual LDO Regulator	20-HSOP	3.47	2.78	2.16
TPPM0110DWPR	296-10872-2-ND	5V, 1mA Dual LDO Regulator	20-HSOP	3928.00/2,000		
TPPM0111DWP	296-12507-5-ND	Dual LDO Linear Regulator	20-HSOP	3.42	2.74	2.13
TPPM0301DR	296-10873-1-ND	5V, 400mA LDO Volt. Regulator	8-SOIC	3.15	2.52	1.96
TPPM0301DR	296-10873-2-ND	5V, 400mA LDO Volt. Regulator	8-SOIC	4410.00/2,500		
TPPM0302DGN	296-10874-5-ND	5V, 400mA LDO Volt. Regulator	8-MSOP	3.15	2.52	1.96
TPPM0303DR	296-10875-1-ND	5V, 250mA LDO Regulator	8-SOIC	2.35	1.88	1.41
TPPM0303DR	296-10875-2-ND	5V, 250mA LDO Regulator	8-SOIC	3007.50/2,500		
TPS71H01QPWPR	296-8051-1-ND	Adjustable 500mA LDO Reg.	20-HTSSOP	4.46	3.57	2.78
TPS71H01QPWPR	296-8051-2-ND	Adjustable 500mA LDO Reg.	20-HTSSOP	5050.00/2,000		
TPS73HD301PWP	296-2666-5-ND	Dual Adjustable LDO Regulator	28-HTSSOP	4.48	3.59	2.79
TPS73HD318PWP	296-2667-5-ND	Dual 1.8/3.3V 750mA LDO Reg.	28-HTSSOP	4.48	3.59	2.79
TPS73HD318PWPR	296-2667-1-ND	Dual 1.8/3.3V 750mA LDO Reg.	28-HTSSOP	4.48	3.59	2.79
TPS73HD318PWPR	296-2667-2-ND	Dual 1.8/3.3V 750mA LDO Reg.	28-HTSSOP	5074.00/2,000		
TPS73HD325PWPR	296-8071-1-ND	Dual 2.5/3.3V 750mA LDO Reg.	28-HTSSOP	4.48	3.59	2.79
TPS73HD325PWPR	296-8071-2-ND	Dual 2.5/3.3V 750mA LDO Reg.	28-HTSSOP	5074.00/2,000		
TPS2140IPWP	296-12564-5-ND	Adj. LDO and 3.3V Switch with Dual Current Limit	14-HTSSOP	2.25	1.80	1.40
TPS2141IPWP	296-12565-5-ND	Adj. LDO and 5V Switch with Dual Current Limit	14-HTSSOP	2.25	1.80	1.40
TPS2150IPWP	296-12566-5-ND	Adj. LDO and 3.3V Switch with Dual Current Limit	14-HTSSOP	2.25	1.80	1.40
TPS2151IPWP	296-12567-5-ND	Adj. LDO and 5V Switch with Dual Current Limit	14-HTSSOP	2.25	1.80	1.40
TPS767D301PWP	296-2740-5-ND	Dual Adjustable/3.3 LDO Reg.	28-HTSSOP	4.01	3.21	2.50
TPS767D318PWP	296-2741-5-ND	Dual 1.8/3.3V LDO Regulator	28-HTSSOP	4.01	3.21	2.50
TPS767D325PWP	296-2742-5-ND	Dual 2.5/3.3V LDO Regulator	28-HTSSOP	4.01	3.21	2.50
TPS7101QDR	296-1359-1-ND	Adjustable 1.2V-9.75V 2A LDO Reg.	8-SOIC	2.50	2.00	1.56
TPS7101QDR	296-1359-2-ND	Adjustable 1.2V-9.75V 2A LDO Reg.	8-SOIC	3497.50/2,500		
TPS7101QP	296-8041-5-ND	Adjustable 1.2V-9.75V 2A LDO Reg.	8-Dip	2.50	2.00	1.56
TPS7101QPWR	296-8042-1-ND	Adj. 1.2V-9.75V 2A LDO Regulator	20-TSSOP	2.50	2.00	1.56
TPS7101QPWR	296-8042-2-ND	Adj. 1.2V-9.75V 2A LDO Regulator	20-TSSOP	2830.00/2,000		
TPS7133QD	296-2658-5-ND	3.3V, 500mA PMOS LDO Regulator	8-SOIC	2.50	2.00	1.56
TPS7133QP	296-8046-5-ND	3.3V, 500mA PMOS LDO Regulator	8-Dip	2.50	2.00	1.56
TPS7133QPWR	296-8047-1-ND	3.3V, 500mA PMOS LDO Reg.	20-TSSOP	2.50	2.00	1.56
TPS7133QPWR	296-8047-2-ND	3.3V, 500mA PMOS LDO Reg.	20-TSSOP	2830.00/2,000		
TPS7148QD	296-1961-5-ND	4.8V, 500mA LDO Regulator	8-SOIC	2.50	2.00	1.56
TPS7148QP	296-8048-5-ND	4.85V, 500mA LDO Regulator	8-Dip	2.50	2.00	1.56
TPS7150QD	296-8049-5-ND	5V, 500mA LDO Regulator	8-SOP	2.50	2.00	1.56
TPS7150QP	296-8050-5-ND	5V, 500mA LDO Regulator	8-Dip	2.50	2.00	1.56
TPS7201QD	296-1360-5-ND	Adjustable 250mA LDO Regulator	8-SOIC	1.59	1.33	1.06
TPS7201QDR	296-1360-1-ND	Adjustable 250mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7201QDR	296-1360-2-ND	Adjustable 250mA LDO Regulator	8-SOIC	1695.00/2,500		
TPS7201QP	296-8052-5-ND	Adjustable 250mA LDO Regulator	8-Dip	1.33	1.06	.80
TPS7201QPWR	296-8053-1-ND	Adjustable 250mA LDO Regulator	8-TSSOP	1.33	1.06	.80
TPS7201QPWR	296-8053-2-ND	Adjustable 250mA LDO Regulator	8-TSSOP	1378.00/2,000		
TPS7225QD	296-1962-5-ND	2.5V, 250mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7225QP	296-1963-5-ND	2.5V, 250mA LDO Regulator	8-Dip	1.33	1.06	.80
TPS7225QPWR	296-8054-1-ND	2.5V, 250mA LDO Regulator	8-TSSOP	1.33	1.06	.80
TPS7225QPWR	296-8054-2-ND	2.5V, 250mA LDO Regulator	8-TSSOP	1378.00/2,000		
TPS7230QD	296-1964-5-ND	3.0V, 250mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7230QP	296-1965-5-ND	3.0V, 250mA LDO Regulator	8-Dip	1.33	1.06	.80
TPS7230QPWR	296-8055-1-ND	3.0V, 250mA LDO Regulator	8-TSSOP	1.33	1.06	.80
TPS7230QPWR	296-8055-2-ND	3.0V, 250mA LDO Regulator	8-TSSOP	1378.00/2,000		
TPS7233QD	296-1966-5-ND	3.3V, 250mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7233QP	296-8056-5-ND	3.3V, 250mA LDO Regulator	8-Dip	1.33	1.06	.80
TPS7233QPWR	296-8057-1-ND	3.3V, 250mA LDO Regulator	8-TSSOP	1.33	1.06	.80
TPS7233QPWR	296-8057-2-ND	3.3V, 250mA LDO Regulator	8-TSSOP	1378.00/2,000		
TPS7248QD	296-8058-5-ND	4.85V, 250mA PMOS LDO Regulator	8-SOP	1.33	1.06	.80
TPS7248QP	296-2659-5-ND	4.85V, 250mA PMOS LDO Regulator	8-Dip	1.33	1.06	.80
TPS7250QD	296-1361-5-ND	5.0V, 250mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7250QDR	296-1361-1-ND	5.0V, 250mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7250QDR	296-1361-2-ND	5.0V, 250mA LDO Regulator	8-SOIC	1695.00/2,500		
TPS7250QP	296-8059-5-ND	5.0V, 250mA LDO Regulator	8-Dip	1.33	1.06	.80

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS7250QPWR	296-8060-1-ND	5.0V, 250mA LDO Regulator	8-TSSOP	1.33	1.06	.80
TPS7250QPWR	296-8060-2-ND	5.0V, 250mA LDO Regulator	8-TSSOP	1378.00/2,000		
TPS7301QD	296-1362-5-ND	Adjustable 500mA LDO Regulator	8-SOIC	2.35	1.88	1.41
TPS7301QDR	296-1362-1-ND	Adjustable 500mA LDO Regulator	8-SOIC	2.35	1.88	1.41
TPS7301QDR	296-1362-2-ND	Adjustable 500mA LDO Regulator	8-SOIC	3007.50/2,500		
TPS7301QP	296-2660-5-ND	Adjustable 500mA LDO Regulator	8-Dip	2.35	1.88	1.41
TPS7301QPW	296-8061-5-ND	Adjustable 500mA LDO Regulator	20-TSSOP	2.35	1.88	1.41
TPS7325QD	296-2661-5-ND	2.5V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.35	1.88	1.41
TPS7325QP	296-8062-5-ND	2.5V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.35	1.88	1.41
TPS7325QPWR	296-8063-1-ND	2.5V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.35	1.88	1.41
TPS7325QPWR	296-8063-2-ND	2.5V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2444.00/2,000		
TPS7330QD	296-2662-5-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.35	1.88	1.41
TPS7330QDR	296-2662-1-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.35	1.88	1.41
TPS7330QDR	296-2662-2-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	3007.50/2,500		
TPS7330QP	296-8064-5-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.35	1.88	1.41
TPS7330QPWR	296-8065-1-ND	3.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.35	1.88	1.41
TPS7330QPWR	296-8065-2-ND	3.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2444.00/2,000		
TPS7333QD	296-8066-5-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOP	2.35	1.88	1.41
TPS7333QDR	296-8066-1-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOP	2.35	1.88	1.41
TPS7333QDR	296-8066-2-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOP	3007.50/2,500		
TPS7333QP	296-2663-5-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.35	1.88	1.41
TPS7333QPWR	296-8067-1-ND	3.3V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.35	1.88	1.41
TPS7333QPWR	296-8067-2-ND	3.3V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2444.00/2,000		
TPS7348QD	296-8068-5-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOP	2.35	1.88	1.41
TPS7348QDR	296-8068-1-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOP	2.35	1.88	1.41
TPS7348QDR	296-8068-2-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOP	3007.50/2,500		
TPS7348QP	296-2664-5-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.35	1.88	1.41
TPS7350QD	296-8069-5-ND	5.0V, 500mA LDO Regulator with Delayed Reset	8-SOP	2.35	1.88	1.41
TPS7350QP	296-2665-5-ND	5.0V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.35	1.88	1.41
TPS7350QPWR	296-8070-1-ND	5.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.35	1.88	1.41
TPS7350QPWR	296-8070-2-ND	5.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2444.00/2,000		
TPS7415D	296-2668-5-ND	1.5V, 200mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7418D	296-2669-5-ND	1.8V, 200mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7425D	296-2670-5-ND	2.5V, 200mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7430D	296-2671-5-ND	3.0V, 200mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS7433D	296-2672-5-ND	3.3V, 200mA LDO Regulator	8-SOIC	1.33	1.06	.80
TPS70102PWP	296-2652-5-ND	Dual, Adj., 500mA LDO Reg.	20-HTSSOP	4.64	3.71	2.89
TPS70145PWP	296-2653-5-ND	Dual, 3.3/1.2V, 500mA LDO Reg.	20-HTSSOP	4.64	3.71	2.89
TPS70148PWP	296-2654-5-ND	Dual, 3.3/1.5V, 500mA LDO Reg.	20-HTSSOP	4.64	3.71	2.89
TPS70151PWP	296-2655-5-ND	Dual, 3.3/1.8V, 500mA LDO Reg.	20-HTSSOP	4.64	3.71	2.89
TPS70158PWP	296-2656-5-ND	Dual, 3.3/2.5V, 500mA LDO Reg.	20-HTSSOP	4.64	3.71	2.89
TPS70202PWP	296-8016-5-ND	Dual, Adj., 500mA LDO Reg.	20-HTSSOP	4.64	3.71	2.89
TPS70245PWP	296-8017-5-ND	Dual, 3.3V/1.2V, 500mA/250mA LDO Regulator	20-HTSSOP	4.64	3.71	2.89
TPS70248PWP	296-8018-5-ND	Dual, 3.3V/1.5V, 500mA/250mA LDO Regulator	20-HTSSOP	4.64	3.71	2.89
TPS70251PWP	296-8019-5-ND	Dual, 3.3V/1.8V, 500mA/250mA LDO Regulator	20-HTSSOP	4.64	3.71	2.89
TPS70258PWP	296-8020-5-ND	Dual, 3.3V/2.5V, 500mA/250mA LDO Regulator	20-HTSSOP	4.64	3.71	2.89
TPS70302PWP	296-8021-5-ND	Dual, Adj., 1A/2A LDO Regulator	24-HTSSOP	5.11	4.09	3.18
TPS70345PWP	296-8022-5-ND	Dual, 3.3V/1.2V, 1A/2A LDO Reg.	24-HTSSOP	5.11	4.09	3.18
TPS70348PWP	296-8023-5-ND	Dual, 3.3V/1.5V, 1A/2A LDO Reg.	20-HTSSOP	5.11	4.09	3.18
TPS70351PWP	296-8024-5-ND	Dual, 3.3V/1.8V, 1A/2A LDO Reg.	24-HTSSOP	5.11	4.09	3.18
TPS70358PWP	296-8025-5-ND	Dual, 3.3V/2.5V, 1A/2A LDO Reg.	24-HTSSOP	5.11	4.09	3.18
TPS70402PWP	296-8026-5-ND	Dual, Adjustable, 1A/2A LDO Reg.	24-HTSSOP	5.02	4.02	3.13
TPS70445PWP	296-8027-5-ND	Dual, 3.3V/1.2V, 1A/2A LDO Reg.	24-HTSSOP	5.02	4.02	3.13
TPS70448PWP	296-8028-5-ND	Dual, 3.3V/1.5V, 1A/2A LDO Reg.	24-HTSSOP	5.02	4.02	3.13
TPS70451PWP	296-8029-5-ND	Dual, 3.3V/1.8V, 1A/2A LDO Reg.	24-HTSSOP	5.02	4.02	3.13
TPS70458PWP	296-8030-5-ND	Dual, 3.3V/2.5V, 1A/2A LDO Reg.	24-HTSSOP	5.02	4.02	3.13
TPS70702PWP	296-8031-5-ND	Dual, Adjustable, 1A/2A LDO Reg.	20-HTSSOP	4.07	3.26	2.54
TPS70745PWP	296-8032-5-ND	Dual, 3.3V/1.2V, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54
TPS70748PWP	296-8033-5-ND	Dual, 3.3V/1.5V, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54
TPS70751PWP	296-8034-5-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54
TPS70758PWP	296-8035-5-ND	Dual, 3.3V/2.5V, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54
TPS70802PWP	296-8036-5-ND	Dual, Adjustable, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54
TPS70845PWP	296-8037-5-ND	Dual, 3.3V/1.2V, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54
TPS70848PWP	296-8038-5-ND	Dual, 3.3V/1.5V, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54
TPS70851PWP	296-8039-5-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS70858PWP	296-8040-5-ND	Dual, 3.3V/2.5V, 250mA/125mA LDO Regulator	20-HTSSOP	4.07	3.26	2.54
TPS71025D	296-8043-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.50	2.00	1.56
TPS71025DR	296-8043-1-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.50	2.00	1.56
TPS71025DR	296-8043-2-ND	2.5V, 500mA LDO Regulator	8-SOIC	3497.50/2,500		
TPS71025P	296-2657-5-ND	2.5V, 500mA LDO Regulator	8-Dip	2.50	2.00	1.56
TPS71025PWR	296-8045-1-ND	2.5V, 500mA LDO Regulator	20-TSSOP	2.50	2.00	1.56
TPS71025PWR	296-8045-2-ND	2.5V, 500mA LDO Regulator	20-TSSOP	2830.00/2,000		
TPS71501DCKR	296-12957-1-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	.90	.75	.60
TPS71501DCKR	296-12957-2-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	1170.00/3,000		
TPS71525DCKR	296-12007-1-ND	2.5V, 50mA High Input LDO	SC70-5	.90	.75	.60
TPS71525DCKR	296-12007-2-ND	2.5V, 50mA High Input LDO	SC70-5	1170.00/3,000		
TPS71533DCKR	296-12008-1-ND	3.3V, 50mA High Input LDO	SC70-5	.90	.75	.60
TPS71533DCKR	296-12008-2-ND	3.3V, 50mA High Input LDO	SC70-5	1170.00/3,000		
TPS72101DBVT	296-13004-1-ND	Low Input Voltage, Cap Free 150mA LDO Linear Regulator	SOT-23-5	1.11	.93	.74
TPS72101DBVT	296-13004-2-ND	Low Input Voltage, Cap Free 150mA LDO Linear Regulator	SOT-23-5	138.75/250		
TPS72115DBVT	296-12518-1-ND	1.5V, 150mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS72115DBVT	296-12518-2-ND	1.5V, 150mA LDO Regulator	SOT-23-5	138.75/250		
TPS72116DBVT	296-12519-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS72116DBVT	296-12519-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	138.75/250		
TPS72118DBVT	296-12520-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS72118DBVT	296-12520-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	138.75/250		
TPS72215DBVT	296-12521-1-ND	1.5V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.11	.93	.74
TPS72215DBVT	296-12521-2-ND	1.5V, 50mA Low Vin, LDO Reg.	SOT-23-5	138.75/250		
TPS72216DBVT	296-12522-1-ND	1.6V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.11	.93	.74
TPS72216DBVT	296-12522-2-ND	1.6V, 50mA Low Vin, LDO Reg.	SOT-23-5	138.75/250		
TPS72218DBVT	296-12523-1-ND	1.8V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.11	.93	.74
TPS72218DBVT	296-12523-2-ND	1.8V, 50mA Low Vin, LDO Reg.	SOT-23-5	138.75/250		
TPS72501DCQR	296-13524-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator w/Supervisor	SOT-223-5	2.48	1.98	1.49
TPS72501DCQR	296-13524-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator w/Supervisor	SOT-223-5	3167.50/2,500		
TPS72501DT	296-13805-5-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	8-SOIC	3.87	3.10	2.41
TPS72501KTTT	296-13525-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	DDPAK-5	2.66	2.13	1.66
TPS72501KTTT	296-13525-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	DDPAK-5	767.00/500		
TPS72515DCQR	296-12692-1-ND	1.5V, 1A LDO Linear Regulator	SOT-223-5	2.48	1.98	1.49
TPS72515DCQR	296-12692-2-ND	1.5V, 1A LDO Linear Regulator	SOT-223-5	3167.50/2,500		
TPS72515KTTT	296-12693-1-ND	1.5V, 1A LDO Linear Regulator	TO-263-5	2.66	2.13	1.66
TPS72515KTTT	296-12693-2-ND	1.5V, 1A LDO Linear Regulator	TO-263-5	767.00/500		
TPS72516DCQ	296-14393-5-ND	1.6V, 1A LDO Linear Regulator *NEW!*	SOT-223-6	2.48	1.98	1.49
TPS72516DCQR	296-14420-1-ND	1.6V, 1A LDO Linear Regulator *NEW!*	SOT-223-6	2.48	1.98	1.49
TPS72516DCQR	296-14420-2-ND	1.6V, 1A LDO Linear Regulator *NEW!*	SOT-223-6	3167.50/2,500		
TPS72518DCQR	296-12694-1-ND	1.8V, 1A LDO Linear Regulator	SOT-223-5	2.48	1.98	1.49
TPS72518DCQR	296-12694-2-ND	1.8V, 1A LDO Linear Regulator	SOT-223-5	3167.50/2,500		
TPS72518KTTT	296-12695-1-ND	1.8V, 1A LDO Linear Regulator	TO-263-5	2.66	2.13	1.66
TPS72518KTTT	296-12695-2-ND	1.8V, 1A LDO Linear Regulator	TO-263-5	767.00/500		
TPS72525DCQR	296-12696-1-ND	2.5V, 1A LDO Linear Regulator	SOT-223-5	2.48	1.98	1.49
TPS72525DCQR	296-12696-2-ND	2.5V, 1A LDO Linear Regulator	SOT-223-5	3167.50/2,500		
TPS72525KTTT	296-12697-1-ND	2.5V, 1A LDO Linear Regulator	TO-263-5	2.66	2.13	1.66
TPS72525KTTT	296-12697-2-ND	2.5V, 1A LDO Linear Regulator	TO-263-5	767.00/500		
TPS72615DCQR	296-12958-1-ND	1.5V, 1A Low Input Volt., LDO Linear Regulator with Supervisor	SOT-223-5	2.48	1.98	1.49
TPS72615DCQR	296-12958-2-ND	1.5V, 1A Low Input Volt., LDO Linear Regulator with Supervisor	SOT-223-5	3167.50/2,500		
TPS72615KTTT	296-13751-1-ND	1.5V, 1A Low Input Volt., LDO Linear Regulator with Supervisor	DDPAK-5	2.66	2.13	1.66
TPS72615KTTT	296-13751-2-ND	1.5V, 1A Low Input Volt., LDO Linear Regulator with Supervisor	DDPAK-5	767.00/500		
TPS72616DCQR	296-13705-1-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator w/Supervisor	SOT-223-5	2.48	1.98	1.49
TPS72616DCQR	296-13705-2-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator w/Supervisor	SOT-223-5	3167.50/2,500		
TPS72616KTTT	296-13752-1-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.66	2.13	1.66
TPS72616KTTT	296-13752-2-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	767.00/500		
TPS72618DCQR	296-12959-1-ND	1.8V, 1A Low Input Volt., LDO Linear Regulator with Supervisor	SOT-223-5	2.48	1.98	1.49
TPS72618DCQR	296-12959-2-ND	1.8V, 1A Low Input Volt., LDO Linear Regulator with Supervisor	SOT-223-5	3167.50/2,500		
TPS72618KTTT	296-13753-1-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.66	2.13	1.66
TPS72618KTTT	296-13753-2-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	767.00/500		
TPS72625DCQR	296-12960-1-ND	2.5V, 1A Low Input Volt., LDO Linear Regulator with Supervisor	SOT-223-5	2.48	1.98	1.49
TPS72625DCQR	296-12960-2-ND	2.5V, 1A Low Input Volt., LDO Linear Regulator with Supervisor	SOT-223-5	3167.50/2,500		
TPS72625KTTT	296-13754-1-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.66	2.13	1.66
TPS72625KTTT	296-13754-2-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	767.00/500		
TPS75101QPWP	296-2673-5-ND	Adjustable, 1.5A LDO Regulator	20-HTSSOP	3.24	2.60	2.02
TPS75115QPWP	296-2674-5-ND	1.5V, 1.5A LDO Regulator	20-HTSSOP	3.24	2.60	2.02
TPS75118QPWP	296-2675-5-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	3.24	2.60	2.02
TPS75125QPWP	296-2676-5-ND	2.5V, 1.5A LDO Regulator	20-HTSSOP	3.24	2.60	2.02
TPS75133QPWP	296-2677-5-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	3.24	2.60	2.02
TPS75201QPWP	296-2678-5-ND	Adjustable, 2A LDO Regulator	20-HTSSOP	3.65	2.92	2.27
TPS75215QPWP	296-2679-5-ND	1.5V, 2A LDO Regulator	20-HTSSOP	3.65	2.92	2.27
TPS75218QPWP	296-2680-5-ND	1.8V, 2A LDO Regulator	20-HTSSOP	3.65	2.92	2.27
TPS75225QPWP	296-2681-5-ND	2.5V, 2A LDO Regulator	20-HTSSOP	3.65	2.92	2.27
TPS75233QPWP	296-2682-5-ND	3.3V, 2A LDO Regulator	20-HTSSOP	3.65	2.92	2.27
TPS75301QPWP	296-2683-5-ND	Adjustable, 1.5A LDO Regulator	20-HTSSOP	3.44	2.76	2.15
TPS75315QPWP	296-2684-5-ND	1.5V, 1.5A LDO Regulator	20-HTSSOP	3.44	2.76	2.15
TPS75318QPWP	296-2685-5-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	3.44	2.76	2.15
TPS75325QPWP	296-2686-5-ND	2.5V, 1.5A LDO Regulator	20-HTSSOP	3.44	2.76	2.15
TPS75333QPWP	296-2687-5-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	3.44	2.76	2.15
TPS75401QPWP	296-2688-5-ND	Adjustable, 2A LDO Regulator	20-HTSSOP	3.53	2.83	2.20
TPS75415QPWP	296-2689-5-ND	1.5V, 2A LDO Regulator	20-HTSSOP	3.53	2.83	2.20
TPS75418QPWP	296-2690-5-ND	1.8V, 2A LDO Regulator	20-HTSSOP	3.53	2.83	2.20
TPS75425QPWP	296-2691-5-ND	2.5V, 2A LDO Regulator	20-HTSSOP	3.53	2.83	2.20
TPS75433QPWP	296-2692-5-ND	3.3V, 2A LDO Regulator	20-HTSSOP	3.53	2.83	2.20
TPS75501KC	296-10988-5-ND	Adjustable, 5A LDO Regulator	TO-220	5.38	4.31	3.64
TPS75501KTT	296-10989-5-ND	Adjustable, 5A LDO Regulator	TO-263	5.38	4.31	3.64
TPS75515KC	296-10990-5-ND	1.5V, 5A LDO Regulator	TO-220	5.38	4.31	3.64
TPS75515KTT	296-10991-5-ND	1.5V, 5A LDO Regulator	TO-263	5.38	4.31	3.64
TPS75518KC	296-10992-5-ND	1.8V, 5A LDO Regulator	TO-220	5.38	4.31	3.64
TPS75518KTT	296-10993-5-ND	1.8V, 5A LDO Regulator	TO-263	5.38	4.31	3.64
TPS75525KC	296-10994-5-ND	2.5V, 5A LDO Regulator	TO-220	5.38	4.31	3.64
TPS75525KTT	296-10995-5-ND	2.5V, 5A LDO Regulator	TO-263	5.38	4.31	3.64
TPS75533KC	296-10996-5-ND	3.3V, 5A LDO Regulator	TO-220	5.38	4.31	3.64
TPS75533KTT	296-10997-5-ND	3.3V, 5A LDO Regulator	TO-263	5.38	4.31	3.64
TPS75601KC	296-11947-5-ND	Adjustable, 5A LDO Regulator	TO-220-5	5.38	4.31	3.64
TPS75601KTT	296-11948-5-ND	Adjustable, 5A LDO Regulator	TO-263-5	5.38	4.31	3.64
TPS75615KC	296-11949-5-ND	1.5V, 5A LDO Regulator	TO-220-5	5.38	4.31	3.64
TPS75615KTT	296-11950-5-ND	1.5V, 5A LDO Regulator	TO-263-5	5.38	4.31	3.64
TPS75618KC	296-11951-5-ND	1.8V, 5A LDO Regulator	TO-220-5	5.38	4.31	3.64
TPS75618KTT	296-11952-5-ND	1.8V, 5A LDO Regulator	TO-263-5	5.38	4.31	3.64
TPS75625KC	296-11953-5-ND	2.5V, 5A LDO Regulator	TO-220-5	5.38	4.31	3.64
TPS75625KTT	296-11954-5-ND	2.5V, 5A LDO Regulator	TO-263-5	5.38	4.31	3.64
TPS75633KC	296-11955-5-ND	3.3V, 5A LDO Regulator	TO-220-5	5.38	4.31	3.64
TPS75633KTT	296-11956-5-ND	3.3V, 5A LDO Regulator	TO-263-5	5.38	4.31	3.64
TPS75701KC	296-10998-5-ND	Adjustable, 3A LDO Regulator	TO-220	5.49	4.40	3.42
TPS75701KTT	296-10999-5-ND	Adjustable, 3A LDO Regulator	TO-263	5.49	4.40	3.42
TPS75715KC	296-11000-5-ND	1.5V, 3A LDO Regulator	TO-220	5.49	4.40	3.42
TPS75715KTT	296-11001-5-ND	1.5V, 3A LDO Regulator	TO-263	5.49	4.40	3.42
TPS75718KC	296-11002-5-ND	1.8V, 3A LDO Regulator	TO-220	5.49	4.40	3.42
TPS75718KTT	296-11003-5-ND	1.8V, 3A LDO Regulator	TO-263	5.49	4.40	3.42
TPS75725KC	296-11004-5-ND	2.5V, 3A LDO Regulator	TO-220	5.49	4.40	3.42
TPS75725KTT	296-11005-5-ND	2.5V, 3A LDO Regulator	TO-263	5.49	4.40	3.42
TPS75733KC	296-11006-5-ND	3.3V, 3A LDO Regulator	TO-220	5.49	4.40	3.42
TPS75733KTT	296-11007-5-ND	3.3V, 3A LDO Regulator	TO-263	5.49	4.40	3.42
TPS75801KC	296-11957-5-ND	Adjustable, 3A LDO Regulator	TO-220-5	5.49	4.40	3.42
TPS75801KTT	296-11958-5-ND	Adjustable, 3A LDO Regulator	TO-263-5	5.49	4.40	3.42
TPS75815KC	296-11959-5-ND	1.5V, 3A LDO Regulator	TO-220-5	5.49	4.40	3.42
TPS75815KTT	296-11960-5-ND	1.5V, 3A LDO Regulator	TO-263-5	5.49	4.40	3.42
TPS75818KC	296-11961-5-ND	1.8V, 3A LDO Regulator	TO-220-5	5.49	4.40	3.42
TPS75818KTT	296-11962-5-ND	1.8V, 3A LDO Regulator	TO-263-5	5.49	4.40	3.42
TPS75825KC	296-11963-5-ND	2.5V, 3A LDO Regulator	TO-220-5	5.49	4.40	3.42
TPS75825KTT	296-11964-5-ND	2.5V, 3A LDO Regulator	TO-263-5	5.49	4.40	3.42
TPS75833KC	296-11965-5-ND	3.3V, 3A LDO Regulator	TO-220-5	5.49	4.40	3.42
TPS75833KTT	296-11966-5-ND	3.3V, 3A LDO Regulator	TO-263-5	5.49	4.40	3.42
TPS75901KC	296-12369-5-ND	Adjustable, 7.5-A LDO Regulator	TO-220-5	5.78	4.63	3.91
TPS75901KTT	296-12370-5-ND	Adjustable, 7.5-A LDO Regulator	TO-263-5	5.78	4.63	3.91
TPS75915KC	296-12371-5-ND	1.5V Fixed Out 7.5A LDO Regulator	TO-220-5	5.78	4.63	3.91
TPS75915KTT	296-12372-5-ND	1.5V Fixed Out 7.5A LDO Regulator	TO-263-5	5.78	4.63	3.91
TPS75918KC	296-12373-5-ND	1.8V Fixed Out 7.5A LDO Regulator	TO-220-5	5.78	4.63	3.91
TPS75918KTT	296-12374-5-ND	1.8V Fixed Out 7.5A LDO Regulator	TO-263-5	5.78	4.63	3.91
TPS75925KC	296-12375-5-ND	2.5V Fixed Out 7.5A LDO Regulator	TO-220-5	5.78	4.63	3.91
TPS75925KTT	296-12376-5-ND	2.5V Fixed Out 7.5A LDO Regulator	TO-263-5	5.78	4.63	3.91
TPS75933KC	296-12377-5-ND	3.3V Fixed Out 7.5A LDO Regulator	TO-220-5	5.78	4.63	3.91
TPS75933KTT	296-12378-5-ND	3.3V Fixed Out 7.5A LDO Regulator	TO-263-5	5.78	4.63	3.91
TPS76030DBVR	296-1363-1-ND	3V LP 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS76030DBVR	296-1363-2-ND	3V LP 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS76032DBVR	296-8072-1-ND	3.2V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS76032DBVR	296-8072-2-ND	3.2V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS76033DBVR	296-8073-1-ND	3.3V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS76033DBVR	296-8073-2-ND	3.3V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS76038DBVR	296-8074-1-ND	3.8V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS76038DBVR	296-8074-2-ND	3.8V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS76050DBVR	296-8075-1-ND	5.0V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS76050DBVR	296-8075-2-ND	5.0V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS76130DBVR	296-11008-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76130DBVR	296-11008-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1287.00/3,000		
TPS76130DBVT	296-2693-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76130DBVT	296-2693-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	123.75/250		
TPS76132DBVR	296-11009-1-ND	3.2V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76132DBVR	296-11009-2-ND	3.2V, 100mA LDO Regulator	SOT-23-5	1287.00/3,000		
TPS76132DBVT	296-2694-1-ND	3.2V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76132DBVT	296-2694-2-ND	3.2V, 100mA LDO Regulator	SOT-23-5	123.75/250		
TPS76133DBVR	296-11010-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76133DBVR	296-11010-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1287.00/3,000		
TPS76133DBVT	296-2695-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76133DBVT	296-2695-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	123.75/250		
TPS76138DBVR	296-11011-1-ND	3.8V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76138DBVR	296-11011-2-ND	3.8V, 100mA LDO Regulator	SOT-23-5	1287.00/3,000		
TPS76138DBVT	296-2696-1-ND	3.8V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76138DBVT	296-2696-2-ND	3.8V, 100mA LDO Regulator	SOT-23-5	123.75/250		
TPS76150DBVR	296-11012-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76150DBVR	296-11012-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	1287.00/3,000		
TPS76150DBVT	296-2697-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76150DBVT	296-2697-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	123.75/250		
TPS76201DBVR	296-11013-1-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	.99	.83	.66
TPS76201DBVR	296-11013-2-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	1287.00/3,000		
TPS76301DBVR	296-11014-1-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76301DBVR	296-11014-2-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76301DBVT	296-2698-1-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76301DBVT	296-2698-2-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76316DBVR	296-11015-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76316DBVR	296-11015-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76316DBVT	296-2699-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76316DBVT	296-2699-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76318DBVT	296-2700-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76318DBVT	296-2700-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76325DBVR	296-11017-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76325DBVR	296-11017-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76325DBVT	296-2701-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76325DBVT	296-2701-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	97.50/250		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

TEXAS INSTRUMENTS POWER SUPPLY PRODUCTS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS76327DBVR	296-11018-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76327DBVR	296-11018-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76327DBVT	296-2702-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76327DBVT	296-2702-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76328DBVR	296-11019-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76328DBVR	296-11019-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76328DBVT	296-2703-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76328DBVT	296-2703-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76330DBVR	296-11020-1-ND	3.0V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76330DBVR	296-11020-2-ND	3.0V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76330DBVT	296-2704-1-ND	3.0V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76330DBVT	296-2704-2-ND	3.0V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76333DBVR	296-11021-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76333DBVR	296-11021-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76333DBVT	296-2705-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76333DBVT	296-2705-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76338DBVT	296-2706-1-ND	3.8V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76338DBVT	296-2706-2-ND	3.8V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76350DBVR	296-11023-1-ND	5.0V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76350DBVR	296-11023-2-ND	5.0V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76350DBVT	296-2707-1-ND	5.0V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76350DBVT	296-2707-2-ND	5.0V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76425DBVR	296-11024-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76425DBVR	296-11024-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76425DBVT	296-2708-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76425DBVT	296-2708-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76427DBVR	296-11025-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76427DBVR	296-11025-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76427DBVT	296-2709-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76427DBVT	296-2709-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76428DBVR	296-11026-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76428DBVR	296-11026-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76428DBVT	296-2710-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76428DBVT	296-2710-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76430DBVT	296-2711-1-ND	3.0V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76430DBVT	296-2711-2-ND	3.0V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76433DBVR	296-11028-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76433DBVR	296-11028-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76433DBVT	296-2712-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76433DBVT	296-2712-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	97.50/250		
TPS76501D	296-2713-5-ND	Adjustable, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76515D	296-2714-5-ND	1.5V, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76518D	296-2715-5-ND	1.8V, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76525D	296-2716-5-ND	2.5V, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76527D	296-2717-5-ND	2.7V, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76528D	296-2718-5-ND	2.8V, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76530D	296-2719-5-ND	3.0V, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76533D	296-2720-5-ND	3.3V, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76550D	296-2721-5-ND	5.0V, 150mA LDO Regulator	8-SOIC	1.38	1.15	.92
TPS76601D	296-2722-5-ND	Adjustable, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76615D	296-2723-5-ND	1.5V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76615D	296-2723-1-ND	1.5V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76615DR	296-2723-2-ND	1.5V, 250mA LDO Regulator	8-SOIC	1856.00/2,500		
TPS76618D	296-2724-5-ND	1.8V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76625D	296-2725-5-ND	2.5V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76627D	296-2726-5-ND	2.7V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76628D	296-2727-5-ND	2.8V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76630D	296-2728-5-ND	3.0V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76633D	296-2729-5-ND	3.3V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76650D	296-2730-5-ND	5.0V, 250mA LDO Regulator	8-SOIC	1.45	1.16	.87
TPS76701QD	296-2731-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76701QPWP	296-8076-5-ND	Adjustable, 1A LDO Reg.	20-HTSSOP	2.48	1.98	1.49
TPS76701QPWPR	296-8076-1-ND	Adjustable, 1A LDO Reg.	20-HTSSOP	2.48	1.98	1.49
TPS76701QPWPR	296-8076-2-ND	Adjustable, 1A LDO Reg.	20-HTSSOP	2574.00/2.000		
TPS76715QD	296-2732-5-ND	1.5V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76715QPWP	296-8077-5-ND	1.5V, 1000mA LDO Regulator	20-HTSSOP	2.48	1.98	1.49
TPS76718QD	296-2733-5-ND	1.8V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76718QPWP	296-8078-5-ND	1.8V, 1000mA LDO Regulator	20-HTSSOP	2.48	1.98	1.49
TPS76725QD	296-2734-5-ND	2.5V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76725QPWP	296-8079-5-ND	2.5V, 1000mA LDO Regulator	20-HTSSOP	2.48	1.98	1.49
TPS76727QD	296-2735-5-ND	2.7V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76727QPWP	296-8080-5-ND	2.7V, 1000mA LDO Regulator	20-HTSSOP	2.48	1.98	1.49
TPS76728QD	296-2736-5-ND	2.8V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76728QPWP	296-8081-5-ND	2.8V, 1000mA LDO Regulator	20-HTSSOP	2.48	1.98	1.49
TPS76730QD	296-2737-5-ND	3.0V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76730QPWP	296-8082-5-ND	3.0V, 1000mA LDO Regulator	20-HTSSOP	2.48	1.98	1.49
TPS76733QD	296-2738-5-ND	3.3V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76733QPWP	296-8083-5-ND	3.3V, 1000mA LDO Regulator	20-HTSSOP	2.48	1.98	1.49
TPS76750QD	296-2739-5-ND	5.0V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.49
TPS76750QPWP	296-8084-5-ND	5.0V, 1000mA LDO Regulator	20-HTSSOP	2.48	1.98	1.49
TPS76801QD	296-2743-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76801QPWP	296-8085-5-ND	Adjustable, 1000mA LDO Reg.	20-HTSSOP	2.38	1.90	1.43
TPS76815QD	296-2744-5-ND	1.5V, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76815QPWP	296-8086-5-ND	1.5V, 1000mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS76818QD	296-2745-5-ND	1.8V, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76818QPWP	296-8087-5-ND	1.8V, 1000mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS76825QD	296-2746-5-ND	2.5V, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76825QPWP	296-8088-5-ND	2.5V, 1000mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS76827QD	296-2747-5-ND	2.7V, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76827QPWP	296-8089-5-ND	2.7V, 1000mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS76828QD	296-2748-5-ND	2.8V, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76828QPWP	296-8090-5-ND	2.8V, 1000mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS76830QD	296-2749-5-ND	3.0V, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76830QPWP	296-8091-5-ND	3.0V, 1000mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS76833QD	296-2750-5-ND	3.3V, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76833QPWP	296-8092-5-ND	3.3V, 1000mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS76850QD	296-2751-5-ND	5.0V, 1A LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS76850QPWP	296-8093-5-ND	5.0V, 1000mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS76901DBVR	296-11029-1-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76901DBVR	296-11029-2-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76901DBVT	296-2752-1-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76901DBVT	296-2752-2-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76912DBVR	296-11031-1-ND	1.2V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76912DBVR	296-11031-2-ND	1.2V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76912DBVT	296-2753-1-ND	1.2V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76912DBVT	296-2753-2-ND	1.2V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76915DBVR	296-11032-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76915DBVR	296-11032-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76915DBVT	296-2754-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76915DBVT	296-2754-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76918DBVR	296-11033-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76918DBVR	296-11033-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76918DBVT	296-2755-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76918DBVT	296-2755-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76925DBVR	296-11035-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76925DBVR	296-11035-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76925DBVT	296-2756-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76925DBVT	296-2756-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76927DBVR	296-11036-1-ND	2.7V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76927DBVR	296-11036-2-ND	2.7V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76927DBVT	296-2757-1-ND	2.7V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76927DBVT	296-2757-2-ND	2.7V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76928DBVR	296-11037-1-ND	2.8V, 100mA LDO Regulator *NEW!*	SOT-23-5	.78	.65	.52
TPS76928DBVR	296-11037-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76928DBVT	296-2758-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76928DBVT	296-2758-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76930DBVR	296-11038-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76930DBVT	296-2759-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76930DBVT	296-2759-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76933DBVR	296-11039-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76933DBVT	296-2760-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76933DBVT	296-2760-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS76950DBVR	296-11041-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76950DBVR	296-11041-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS76950DBVT	296-2761-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS76950DBVT	296-2761-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	97.50/250		
TPS77001DBVR	296-11043-1-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77001DBVR	296-11043-2-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77001DBVT	296-2762-1-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77001DBVT	296-2762-2-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77012DBVR	296-11044-1-ND	1.2V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77012DBVR	296-11044-2-ND	1.2V, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77012DBVT	296-2763-1-ND	1.2V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77012DBVT	296-2763-2-ND	1.2V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77015DBVR	296-11045-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77015DBVR	296-11045-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77015DBVT	296-2764-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77015DBVT	296-2764-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77018DBVR	296-11046-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77018DBVR	296-11046-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77018DBVT	296-2765-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77018DBVT	296-2765-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77025DBVR	296-11047-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77025DBVR	296-11047-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77025DBVT	296-2766-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77025DBVT	296-2766-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77027DBVR	296-11048-1-ND	2.7V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77027DBVR	296-11048-2-ND	2.7V, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77027DBVT	296-2767-1-ND	2.7V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77027DBVT	296-2767-2-ND	2.7V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77028DBVR	296-11049-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77028DBVR	296-11049-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77028DBVT	296-2768-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77028DBVT	296-2768-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77030DBVR	296-11050-1-ND	3.0V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77030DBVR	296-11050-2-ND	3.0V, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77030DBVT	296-2769-1-ND	3.0V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77030DBVT	296-2769-2-ND	3.0V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77033DBVT	296-2770-1-ND	3.3V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77033DBVT	296-2770-2-ND	3.3V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77050DBVR	296-11052-1-ND	5.0V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77050DBVR	296-11052-2-ND	5.0V, 50mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS77050DBVT	296-2771-1-ND	5.0V, 50mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS77050DBVT	296-2771-2-ND	5.0V, 50mA LDO Regulator	SOT-23-5	112.50/250		
TPS77101DGK	296-8094-5-ND	Adjustable, 150mA LDO Regulator	8-MSOP	1.33	1.06	.80
TPS77115DGK	296-8095-5-ND	1.5V, 150mA LDO Regulator	8-MSOP	1.33	1.06	.80
TPS77118DGK	296-8096-5-ND	1.8V, 150mA LDO Regulator	8-MSOP	1.33	1.06	.80
TPS77127DGK	296-8097-5-ND	2.7V, 150mA LDO Regulator	8-MSOP	1.33	1.06	.80
TPS77128DGK	296-8098-5-ND	2.8V, 150mA LDO Regulator	8-MSOP	1.33	1.06	.80
TPS77133DGK	296-8099-5-ND	3.3V, 150mA LDO Regulator	8-MSOP	1.33	1.06	.80
TPS77150DGK	296-8100-5-ND	5.0V, 150mA LDO Regulator	8-MSOP	1.33	1.06	.80
TPS77201DGK	296-8101-5-ND	Adjustable, 150mA LDO Regulator	8-MSOP	1.28	1.02	.77
TPS77215DGK	296-8102-5-ND	1.5V, 150mA LDO Regulator	8-MSOP	1.28	1.02	.77
TPS77218DGK	296-8103-5-ND	1.8V, 150mA LDO Regulator	8-MSOP	1.28	1.02	.77
TPS77227DGK	296-8104-5-ND	2.7V, 150mA LDO Regulator	8-MSOP	1.28	1.02	.77
TPS77228DGK	296-8105-5-ND	2.8V, 150mA LDO Regulator	8-MSOP	1.28	1.02	.77
TPS77233DGK	296-8106-5-ND	3.3V, 150mA LDO Regulator	8-MSOP	1.28	1.02	.77
TPS77250DGK	296-8107-5-ND	5.0V, 150mA LDO Regulator	8-MSOP	1.28	1.02	.77
TPS77301DGK	296-8108-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77315DGK	296-8109-5-ND	1.5V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77316DGK	296-13419-5-ND	250mA LDO Regulator with Reset Output	8-MSOP	1.55	1.24	.93
TPS77318DGK	296-8110-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77327DGK	296-8111-5-ND	2.7V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77328DGK	296-8112-5-ND	2.8V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77333DGK	296-8113-5-ND	3.3V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77350DGK	296-8114-5-ND	5.0V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77401DGK	296-8115-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77415DGK	296-8116-5-ND	1.5V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77418DGK	296-8117-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77427DGK	296-8118-5-ND	2.7V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77428DGK	296-8119-5-ND	2.8V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77433DGK	296-8120-5-ND	3.3V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77450DGK	296-8121-5-ND	5.0V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS77501D	296-2772-5-ND	Adjustable, 500mA LDO Reg.	8-SOIC	2.08	1.66	1.25
TPS77501PWP	296-8122-5-ND	Adjustable, 500mA LDO Reg.	20-HTSSOP	2.08	1.66	1.25
TPS77515D	296-2773-5-ND	1.5V, 500mA LDO Regulator	8-SOIC	2.08	1.66	1.25
TPS77515PWP	296-8123-5-ND	1.5V, 500mA LDO Regulator	20-HTSSOP	2.08	1.66	1.25
TPS77516D	296-13420-5-ND	Fast Transient Response 500mA LDO Volt. Reg. with Reset Output	8-SOIC	2.08	1.66	1.25
TPS77516PWP	296-12401-5-ND	1.6V, 500mA LDO Regulator	20-HTSSOP	2.08	1.66	1.25
TPS77518D	296-2774-5-ND	1.8V, 500mA LDO Regulator	8-SOIC	2.08	1.66	1.25
TPS77518PWP	296-8124-5-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.08	1.66	1.25
TPS77525D	296-2775-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.08	1.66	1.25
TPS77525PWP	296-8125-5-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	2.08	1.66	1.25
TPS77533D	296-2776-5-ND	3.3V, 500mA LDO Regulator	8-SOIC	2.08	1.66	1.25
TPS77533PWP	296-8126-5-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2.08	1.66	1.25
TPS77601D	296-2777-5-ND	Adjustable, 500mA LDO Reg.	8-SOIC	1.98	1.58	1.19
TPS77601PWP	296-8127-5-ND	Adjustable, 500mA LDO Reg.	20-HTSSOP	1.98	1.58	1.19
TPS77615D	296-2778-5-ND	1.5V, 500mA LDO Regulator	8-SOIC	1.98	1.58	1.19
TPS77615PWP	296-11053-5-ND	1.5V, 500mA LDO Regulator	20-HTSSOP	1.98	1.58	1.19
TPS77618D	296-2779-5-ND	1.8V, 500mA LDO Regulator	8-SOIC	1.98	1.58	1.19
TPS77618PWP	296-8128-5-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	1.98	1.58	1.19
TPS77625D	296-2780-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	1.98	1.58	1.19
TPS77625PWP	296-8129-5-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	1.98	1.58	1.19
TPS77628D	296-2781-5-ND	2.8V, 500mA LDO Regulator	8-SOIC	1.98	1.58	1.19
TPS77628PWP	296-8130-5-ND	2.8V, 500mA LDO Regulator	20-HTSSOP	1.98	1.58	1.19
TPS77633D	296-2782-5-ND	3.3V, 500mA LDO Regulator	8-SOIC	1.98	1.58	1.19
TPS77633PWP	296-8131-5-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	1.98	1.58	1.19
TPS77701D	296-2783-5-ND	Adjustable, 750mA LDO Reg.	8-SOIC	2.28	1.82	1.37
TPS77701PWP	296-8132-5-ND	Adjustable, 750mA LDO Reg.	20-HTSSOP	2.28	1.82	1.37
TPS77715D	296-2784-5-ND	1.5V, 750mA LDO Reg. w/Reset Out	8-SOIC	2.28	1.82	1.37
TPS77715PWP	296-8133-5-ND	1.5V, 750mA LDO Reg. w/Reset Out	20-HTSSOP	2.28	1.82	1.37
TPS77718D	296-2785-5-ND	1.8V, 750mA LDO Reg. w/Reset Out	8-SOIC	2.28	1.82	1.37
TPS77718PWP	296-8134-5-ND	1.8V, 750mA LDO Reg. w/Reset Out	20-HTSSOP	2.28	1.82	1.37
TPS77725D	296-2786-5-ND	2.5V, 750mA LDO Reg. w/Reset Out	8-SOIC	2.28	1.82	1.37
TPS77725PWP	296-8135-5-ND	2.5V, 750mA LDO Reg. w/Reset Out	20-HTSSOP	2.28	1.82	1.37
TPS77733D	296-2787-5-ND	3.3V, 750mA LDO Reg. w/Reset Out	8-SOIC	2.28	1.82	1.37
TPS77733PWP	296-8136-5-ND	3.3V, 750mA LDO Reg. w/Reset Out	20-HTSSOP	2.28	1.82	1.37
TPS77801D	296-2788-5-ND	Adjustable, 750mA LDO Reg.	8-SOIC	2.15	1.72	1.29
TPS77801PWP	296-8137-5-ND	Adjustable, 750mA LDO Reg.	20-HTSSOP	2.15	1.72	1.29
TPS77815D	296-2789-5-ND	1.5V, 750mA LDO Regulator	8-SOIC	2.15	1.72	1.29
TPS77815PWP	296-8138-5-ND	1.5V, 750mA LDO Regulator	20-HTSSOP	2.15	1.72	1.29
TPS77818D	296-2790-5-ND	1.8V, 750mA LDO Regulator	8-SOIC	2.15	1.72	1.29
TPS77818PWP	296-8139-5-ND	1.8V, 750mA LDO Regulator	20-HTSSOP	2.15	1.72	1.29
TPS77825D	296-2791-5-ND	2.5V, 750mA LDO Regulator	8-SOIC	2.15	1.72	1.29
TPS77825PWP	296-8140-5-ND	2.5V, 750mA LDO Regulator	20-HTSSOP	2.15	1.72	1.29
TPS77833D	296-2792-5-ND	3.3V, 750mA LDO Regulator	8-SOIC	2.15	1.72	1.29
TPS77833PWP	296-8141-5-ND	3.3V, 750mA LDO Regulator	20-HTSSOP	2.15	1.72	1.29
TPS77901DGK	296-8142-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77918DGK	296-8143-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77925DGK	296-8144-5-ND	2.5V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS77930DGK	296-8145-5-ND	3.0V, 250mA LDO Regulator	8-MSOP	1.55	1.24	.93
TPS78601DCQR	296-13755-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	2.75	2.20	1.71
TPS78601DCQR	296-13755-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	3842.50/2,500		
TPS78601KTTT	296-14421-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	3.26	2.61	2.03
TPS78601KTTT	296-14421-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	942.50/500		
TPS78618DCQR	296-13756-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	2.75	2.20	1.71
TPS78618DCQR	296-13756-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	3842.50/2,500		
TPS78618KTTT	296-14422-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	3.26	2.61	2.03
TPS78618KTTT	296-14422-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	942.50/500		
TPS78625DCQR	296-13757-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	2.75	2.20	1.71
TPS78625DCQR	296-13757-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	3842.50/2,500		
TPS78625KTTT	296-14423-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	3.26	2.61	2.03
TPS78625KTTT	296-14423-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	942.50/500		
TPS78628DCQR	296-13758-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	2.75	2.20	1.71
TPS78628DCQR	296-13758-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	3842.50/2,500		
TPS78628KTTT	296-14424-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	3.26	2.61	2.03
TPS78628KTTT	296-14424-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	942.50/500		
TPS78630DCQR	296-13759-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	2.75	2.20	1.71
TPS78630DCQR	296-13759-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	3842.50/2,500		
TPS78630KTTT	296-14425-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	3.26	2.61	2.03
TPS78630KTTT	296-14425-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	942.50/500		
TPS78633DCQ	296-13760-5-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	2.75	2.20	1.71
TPS78633DCQR	296-13760-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	2.75	2.20	1.71
TPS78633DCQR	296-13760-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-5	3842.50/2,500		
TPS78633KTTT	296-14426-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	3.26	2.61	2.03
TPS78633KTTT	296-14426-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator *NEW!*	DDPAK-5	942.50/500		
TPS78825DBVR	296-12379-1-ND	150mA, 2.5V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1.02	.85	.68
TPS78825DBVR	296-12379-2-ND	150mA, 2.5V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1326.00/3,000		
TPS78833DBVR	296-12380-1-ND	150mA, 3.3V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1.02	.85	.68
TPS78833DBVR	296-12380-2-ND	150mA, 3.3V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1326.00/3,000		
TPS78915DBVR	296-8146-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.84	.70	.56
TPS78915DBVR	296-8146-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	1092.00/3,000		
TPS78918DBVR	296-8147-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.84	.70	.56
TPS78918DBVR	296-8147-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1092.00/3,000		
TPS78925DBVR	296-8148-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.84	.70	.56
TPS78925DBVR	296-8148-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1092.00/3,000		
TPS78928DBVR	296-8149-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.84	.70	.56
TPS78928DBVR	296-8149-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1092.00/3,000		
TPS78930DBVR	296-8150-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	.84	.70	.56
TPS78930DBVR	296-8150-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1092.00/3,000		
TPS79015DBVR	296-8151-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS79015DBVR	296-8151-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS79018DBVR	296-8152-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS79018DBVR	296-8152-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS79025DBVR	296-8153-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS79025DBVR	296-8153-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS79028DBVR	296-8154-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS79028DBVR	296-8154-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS79030DBVR	296-8155-1-ND	3.0V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS79030DBVR	296-8155-2-ND	3.0V, 50mA LDO Regulator	SOT-23-5	1248.00/3,000		
TPS79101DBVR	296-11864-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.08	.90	.72
TPS79101DBVR	296-11864-2-ND	Adj., 100mA LDO Regulator	SOT-23-6	1404.00/3,000		
TPS79118DBVR	296-11865-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79118DBVR	296-11865-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79133DBVR	296-11866-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79133DBVR	296-11866-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79147DBVR	296-11867-1-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1.08	.90	.72
TPS79147DBVR	296-11867-2-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1404.00/3,000		
TPS79147DBVT	296-13707-1-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1.08	.90	.72
TPS79147DBVT	296-13707-2-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	135.00/250		
TPS79201DBVR	296-11868-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.08	.90	.72
TPS79201DBVR	296-11868-2-ND	Adj., 100mA LDO Regulator	SOT-23-6	1404.00/3,000		
TPS79225DBVR	296-11869-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79225DBVR	296-11869-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79228DBVR	296-11870-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79228DBVR	296-11870-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79230DBVR	296-11871-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79230DBVR	296-11871-2-ND	3V, 100mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79301DBVR	296-12154-1-ND	Adj., 200mA High-PSRR RF LDO Regulator	SOT-23-6	1.14	.95	.76
TPS79301DBVR	296-12154-2-ND	Adj., 200mA High-PSRR RF LDO Regulator	SOT-23-6	1482.00/3,000		
TPS79318DBVR	296-12155-1-ND	1.8V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1.14	.95	.76
TPS79318DBVR	296-12155-2-ND	1.8V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1482.00/3,000		
TPS79325DBVR	296-12156-1-ND	2.5V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1.14	.95	.76
TPS79325DBVR	296-12156-2-ND	2.5V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1482.00/3,000		
TPS79328DBVR	296-12158-1-ND	2.8V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1.14	.95	.76
TPS79328DBVR	296-12158-2-ND	2.8V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1482.00/3,000		
TPS79330DBVR	296-12159-1-ND	3.0V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1.14	.95	.76
TPS79330DBVR	296-12159-2-ND	3.0V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1482.00/3,000		
TPS79333DBVR	296-12961-1-ND	3.3V, 200mA LDO Regulator	SOT-23-5	1.14	.95	.76
TPS79333DBVR	296-12961-2-ND	3.3V, 200mA LDO Regulator	SOT-23-5	1482.00/3,000		
TPS79401DCQR	296-14427-1-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1.43	1.14	.86
TPS79401DCQR	296-14427-2-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1825.00/2,500		
TPS79401DGNR	296-13526-1-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.43	1.14	.86
TPS79401DGNR	296-13526-2-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1825.00/2,500		
TPS79401DGNT	296-14428-1-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	1.43	1.14	.86
TPS79401DGNT	296-14428-2-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	199.50/250		
TPS79418DCQR	296-14429-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1.43	1.14	.86
TPS79418DCQR	296-14429-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1825.00/2,500		
TPS79418DGNR	296-14213-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	1.43	1.14	.86
TPS79418DGNR	296-14213-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	1824.00/2,500		
TPS79418DGNT	296-14430-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	1.43	1.14	.86

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS79418DGNT	296-14430-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	199.50/250		
TPS79425DCQR	296-14431-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1.43	1.14	.86
TPS79425DCQR	296-14431-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1825.00/2,500		
TPS79425DGNR	296-13527-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.43	1.14	.86
TPS79425DGNR	296-13527-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1825.00/2,500		
TPS79425DGNT	296-14432-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	1.43	1.14	.86
TPS79425DGNT	296-14432-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	199.50/250		
TPS79428DCQR	296-14433-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1.43	1.14	.86
TPS79428DCQR	296-14433-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1825.00/2,500		
TPS79428DGNR	296-13528-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.43	1.14	.86
TPS79428DGNR	296-13528-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1825.00/2,500		
TPS79428DGNT	296-14434-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	1.43	1.14	.86
TPS79428DGNT	296-14434-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	199.50/250		
TPS79430DCQR	296-14435-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1.43	1.14	.86
TPS79430DCQR	296-14435-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1825.00/2,500		
TPS79430DGNR	296-13529-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.43	1.14	.86
TPS79430DGNR	296-13529-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1825.00/2,500		
TPS79430DGNT	296-14436-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	1.43	1.14	.86
TPS79430DGNT	296-14436-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	199.50/250		
TPS79433DCQR	296-14437-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1.43	1.14	.86
TPS79433DCQR	296-14437-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	SOT-223-6	1825.00/2,500		
TPS79433DGNR	296-13530-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.43	1.14	.86
TPS79433DGNR	296-13530-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1825.00/2,500		
TPS79433DGNT	296-14438-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	1.43	1.14	.86
TPS79433DGNT	296-14438-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator *NEW!*	8-MSOP	199.50/250		
TPS79501DCQR	296-13806-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.28	1.82	1.37
TPS79501DCQR	296-13806-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2912.50/2,500		
TPS79516DCQR	296-13807-1-ND	1.6V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.28	1.82	1.37
TPS79516DCQR	296-13807-2-ND	1.6V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2912.50/2,500		
TPS79518DCQR	296-13808-1-ND	1.6V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.28	1.82	1.37
TPS79518DCQR	296-13808-2-ND	1.6V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2912.50/2,500		
TPS79530DCQR	296-13809-1-ND	3V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.28	1.82	1.37
TPS79530DCQR	296-13809-2-ND	3V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2912.50/2,500		
TPS79533DCQR	296-13810-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.28	1.82	1.37
TPS79533DCQR	296-13810-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2912.50/2,500		
TPS79601DCQR	296-13761-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.49
TPS79601DCQR	296-13761-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3167.50/2,500		
TPS79601KTTT	296-14439-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	2.66	2.13	1.66
TPS79601KTTT	296-14439-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	767.00/500		
TPS79618KTT	296-14440-5-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	2.66	2.13	1.66
TPS79618DCQR	296-13762-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.49
TPS79618DCQR	296-13762-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3167.50/2,500		
TPS79625DCQR	296-13763-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.49
TPS79625DCQR	296-13763-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3167.50/2,500		
TPS79625KTTT	296-14441-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	2.66	2.13	1.66
TPS79625KTTT	296-14441-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	767.00/500		
TPS79628KTT	296-14442-5-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	2.66	2.13	1.66
TPS79628DCQR	296-13764-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.49
TPS79628DCQR	296-13764-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3167.50/2,500		
TPS79630DCQR	296-13765-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.49
TPS79630DCQR	296-13765-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3167.50/2,500		
TPS79630KTTT	296-14443-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	2.66	2.13	1.66
TPS79630KTTT	296-14443-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	767.00/500		
TPS79633DCQR	296-13766-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.49
TPS79633DCQR	296-13766-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3167.50/2,500		
TPS79633KTTT	296-14444-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	2.66	2.13	1.66
TPS79633KTTT	296-14444-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator *NEW!*	DDPAK-5	767.00/500		
TPS79718DCKR	296-11988-1-ND	1.8V, 10mA Micropower LDO Voltage Regulator	SC70-5	.90	.75	.60
TPS79718DCKR	296-11988-2-ND	1.8V, 10mA Micropower LDO Voltage Regulator	SC70-5	1170.00/3,000		
TPS79730DCKR	296-11989-1-ND	3.0V, 10mA Micropower LDO Voltage Regulator	SC70-5	.90	.75	.60
TPS79730DCKR	296-11989-2-ND	3.0V, 10mA Micropower LDO Voltage Regulator	SC70-5	1170.00/3,000		
TPS79733DCKR	296-11990-1-ND	3.3V, 10mA Micropower LDO Voltage Regulator	SC70-5	.90	.75	.60
TPS79733DCKR	296-11990-2-ND	3.3V, 10mA Micropower LDO Voltage Regulator	SC70-5	1170.00/3,000		
TPS793285DBVR	296-12157-1-ND	2.85V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1.14	.95	.76
TPS793285DBVR	296-12157-2-ND	2.85V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1482.00/3,000		
TPS793475DBVR	296-12160-1-ND	4.75V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1.14	.95	.76
TPS793475DBVR	296-12160-2-ND	4.75V, 200mA High-PSRR RF LDO Regulator	SOT-23-5	1482.00/3,000		
UC282TD-1	296-2794-5-ND	1.5V, Fast LDO Regulator	TO-263-5	5.60	4.48	3.78
UC282TD-3	296-2795-5-ND	2.5V, Fast LDO Regulator	TO-263-5	5.60	4.48	3.78
UC282TD-ADJ	296-2796-5-ND	Adjustable Fast LDO Regulator	TO-263-5	5.60	4.48	3.78
UC285TD-ADJ	296-2800-5-ND	Adjustable 5A LDO Regulator	TO-262-5	6.56	5.25	4.43
UC382T-1	296-2801-5-ND	1.5V, Fast Transient Response LDO Regulator	TO-220-5	5.49	4.40	3.42
UC382T-2	296-2802-5-ND	2.1V, Fast Transient Response LDO Regulator	TO-220-5	5.49	4.40	3.42
UC382T-3	296-2803-5-ND	2.5V, Fast Transient Response LDO Regulator	TO-220-5	5.49	4.40	3.42
UC382T-ADJ	296-2804-5-ND	Adjustable Fast Transient Response LDO Regulator	TO-220-5	5.49	4.40	3.42
UC382TD-1	296-2805-5-ND	1.5V, Fast Transient Response LDO Regulator	TO-263-5	5.49	4.40	3.42
UC382TD-2	296-2806-5-ND	2.1V, Fast Transient Response LDO Regulator	TO-263-5	5.49	4.40	3.42
UC382TD-3	296-2807-5-ND	2.5V, Fast Transient Response LDO Regulator	TO-263-5	5.49	4.40	3.42
UC382TD-ADJ	296-11272-5-ND	Adj., 3000mA LDO Regulator	TO-263-5	5.49	4.40	3.42
UC385T-1	296-2809-5-ND	1.5V, 5A LDO Regulator	TO-220-5	5.70	4.56	3.85
UC385T-2	296-2810-5-ND	2.1V, 5A LDO Regulator	TO-220-5	5.70	4.56	3.85
UC385T-3	296-2811-5-ND	2.5V, 5A LDO Regulator	TO-220-5	5.70	4.56	3.85
UC385T-ADJ	296-2812-5-ND	Adjustable, 5A LDO Regulator	TO-220-5	5.70	4.56	3.85
UC385TD-1	296-2813-5-ND	1.5V, 5A LDO Regulator	TO-263-5	5.70	4.56	3.85
UC385TD-2	296-2814-5-ND	2.1V, 5A LDO Regulator	TO-263-5	5.70	4.56	3.85
UC385TD-3	296-2815-5-ND	2.5V, 5A LDO Regulator	TO-263-5	5.70	4.56	3.85
UC385TD-ADJ	296-2816-5-ND	Adjustable, 5A LDO Regulator	TO-263-5	5.70	4.56	3.85
UC2573D	296-2793-5-ND	Buck Pulse PWM Voltage Regulator	8-SOIC	2.27	1.82	1.42
UC2834DW	296-2797-5-ND	High-Efficiency Linear Regulator	16-SOIC	10.31	9.29	8.24
UC2835D	296-2798-5-ND	High-Efficiency Regulator Controller	8-SOIC	7.74	6.20	5.23
UC2836D	296-2799-5-ND	High-Efficiency Regulator Controller	8-SOIC	9.70	7.76	6.55
UC3832N	296-11273-5-ND	Adjustable, 100mA LDO Regulator	14-Dip	5.04	4.04	3.14
UC3833N	296-11274-5-ND	Adjustable, 100mA LDO Regulator	8-Dip	4.91	3.93	3.06
UC3834DW	296-2808-5-ND	High-Efficiency Linear Regulator	16-SOIC	8.46	7.62	6.76
UCC281DP-5	296-2817-5-ND	5V, 1A LDO Regulator	8-SOIC	4.43	3.55	2.76
UCC281DP-ADJ	296-2818-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	4.43	3.55	2.76
UCC283T-3	296-11413-5-ND	3.3V, 1000mA LDO Regulator	TO-220-3	5.60	4.48	3.78
UCC283T-5	296-11414-5-ND	5V, 3000mA LDO Regulator	TO-220-3	5.60	4.48	3.78
UCC284DP-12	296-11415-5-ND	12V, 500mA Neg. LDO Regulator	8-SOIC	5.08	4.07	3.43
UCC284DP-5	296-11416-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	5.08	4.07	3.43
UCC284DP-ADJ	296-11417-5-ND	Adjustable, 500mA Neg. LDO Reg.	8-SOIC	5.08	4.07	3.43
UCC381DP-3	296-2819-5-ND	3.3V, 1A LDO Regulator	8-SOIC	3.85	3.08	2.40
UCC381DP-5	296-2820-5-ND	5.0V, 1A LDO Regulator	8-SOIC	3.85	3.08	2.40
UCC381DP-ADJ	296-2821-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	3.85	3.08	2.40
UCC383T-3	296-8156-5-ND	Adjustable, 3A LDO Linear Regulator	TO-220	5.49	4.40	3.42
UCC383T-5	296-8157-5-ND	Adjustable, 3A LDO Linear Regulator	TO-220-5	5.49	4.40	3.42
UCC383T-ADJ	296-8158-5-ND	Adjustable, 3A LDO Linear Regulator	TO-220	5.49	4.40	3.42
UCC383TD-3	296-8159-5-ND	Adjustable, 3A LDO Linear Regulator	TO-263	5.49	4.40	3.42
UCC383TD-5	296-8160-5-ND	Adjustable, 3A LDO Linear Regulator	TO-263	5.49	4.40	3.42
UCC383TD-ADJ	296-8161-5-ND	Adjustable, 3A LDO Linear Regulator	TO-263-5	5.49	4.40	3.42
UCC384DP-12	296-8162-5-ND	–12V, 0.5A LDO Linear Regulator	8-SOIC	3.98	3.19	2.48
UCC384DP-5	296-8163-5-ND	–5V, 0.5A LDO Linear Regulator	8-SOIC	3.98	3.19	2.48
UCC384DP-ADJ	296-8164-5-ND	Neg Adjustable 0.5A LDO Linear Reg.	8-SOIC	3.98	3.19	2.48
UC3833DWTR	296-13767-1-ND	Prec. LDO Linear Controller	16-SOIC	4.91	3.93	3.06
UC3833DWTR	296-13767-2-ND	Prec. LDO Linear Controller	16-SOIC	5560.00/2,000		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

TEXAS INSTRUMENTS POWER SUPPLY PRODUCTS *(Continued)*

Voltage Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM317DCYR	296-12602-1-ND	3-Terminal Adj. Pos. Volt. Reg	SOT-223-3	.60	.45	.34
LM317DCYR	296-12602-2-ND	3-Terminal Adj. Pos. Volt. Reg	SOT-223-3	487.50/2,500		
LM317KC	296-9535-5-ND	3-Terminal Adj. Pos. Volt. Reg.	TO-220AB	.60	.45	.34
LM317KCS	296-13869-5-ND	3-Terminal Adj. Pos. Volt. Reg. *NEW!*	TO-220	.60	.45	.34
LM317KTER	296-9536-1-ND	3-Terminal Adj. Pos. Volt. Reg.	3-PFM	.60	.45	.34
LM317KTER	296-9536-2-ND	3-Terminal Adj. Pos. Volt. Reg.	3-PFM	400.00/2,000		
LM317MDCYR	296-12631-1-ND	3-Terminal Adj. Pos. Volt. Reg.	4-SOP	.60	.45	.34
LM317MDCYR	296-12631-2-ND	3-Terminal Adj. Pos. Volt. Reg.	4-SOP	487.50/2,500		
LM317MKTPR	296-9537-1-ND	3-Terminal Adj. Pos. Volt. Reg.	2-PFM	.60	.45	.34
LM317MKTPR	296-9537-2-ND	3-Terminal Adj. Pos. Volt. Reg.	2-PFM	585.00/3,000		
LM337KC	296-9550-5-ND	Adj., 1.5A, Negative Volt. Reg.	TO-220AB	1.11	.93	.74
UA7805CKCS	296-13996-5-ND	Positive Voltage Regulator *NEW!*	TO-220	.52	.39	.30
UA7808CKCS	296-13997-5-ND	Positive Voltage Regulator *NEW!*	TO-220	.52	.39	.30
UA7812CKCS	296-13998-5-ND	Positive Voltage Regulator *NEW!*	TO-220	.52	.39	.30
UA7815CKCS	296-13999-5-ND	Positive Voltage Regulator *NEW!*	TO-220	.52	.39	.30
UA78M05CKCS	296-14000-5-ND	Positive Voltage Regulator *NEW!*	TO-220	.56	.42	.32
UA79M05CKCS	296-14001-5-ND	Negative Voltage Regulator *NEW!*	TO-220	.56	.42	.32
LM337KTER	296-9551-1-ND	Adj., 1.5A, Negative Volt. Reg.	3-PFM	1.11	.93	.74
LM337KTER	296-9551-2-ND	Adj., 1.5A, Negative Volt. Reg.	3-PFM	984.00/2,000		
MC79L05ACDR	296-1016-1-ND	5V Fixed Negative Voltage Reg.	8-SOIC	.45	.36	.27
MC79L05ACDR	296-1016-2-ND	5V Fixed Negative Voltage Reg.	8-SOIC	305.00/2,500		
MC79L05ACLP	296-9603-5-ND	5V Fixed Negative Voltage Reg.	TO-226AA	.45	.36	.27
MC79L12ACD	296-9604-5-ND	12V Fixed Negative Voltage Reg.	8-SOP	.45	.36	.27
MC79L12ACLPR	296-9605-1-ND	12V Fixed Negative Voltage Reg.	3-TO/SOT	.45	.36	.27
MC79L12ACLPR	296-9605-2-ND	12V Fixed Negative Voltage Reg.	3-TO/SOT	252.00/2,000		
MC79L15ACLP	296-9607-5-ND	15V Fixed Negative Voltage Reg.	TO-226AA	.45	.36	.27
REG102GA-A	REG102GA-A-ND	Adj., 250mA DMOS LDO Reg.	SOT-223-5	2.50	2.00	1.56
REG102GA-2.5	REG102GA-2.5-ND	2.5V, 250mA DMOS LDO Reg.	SOT-223-5	2.50	2.00	1.56
REG102GA-2.8	REG102GA-2.8-ND	2.8V, 250mA DMOS LDO Reg.	SOT-223-5	2.50	2.00	1.56
REG102GA-2.85	REG102GA-2.85-ND	2.85V, 250mA DMOS LDO Reg.	SOT-223-5	2.50	2.00	1.56
REG102GA-3	REG102GA-3-ND	3V, 250mA DMOS LDO Reg.	SOT-223-5	2.50	2.00	1.56
REG102GA-3.3	REG102GA-3.3-ND	3.3V, 250mA DMOS LDO Reg.	SOT-223-5	2.50	2.00	1.56
REG102GA-5	REG102GA-5-ND	5V, 250mA DMOS LDO Reg.	SOT-223-5	2.50	2.00	1.56
REG711EA-2.5/2K5	REG711EA2.52K5CT-ND	2.5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.70	2.16	1.68
REG711EA-2.5/2K5	REG711EA2.52K5TR-ND	2.5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	3150.00/2,500		
REG711EA-2.7/2K5	REG711EA2.72K5CT-ND	2.7V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	1.80	1.40
REG711EA-2.7/2K5	REG711EA2.72K5TR-ND	2.7V, 50mA Switched-Cap DC/DC Converter	8-MSOP	3150.00/2,500		
REG711EA-3/2K5	REG711EA-3/2K5CT-ND	3.0V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.70	2.16	1.68
REG711EA-3/2K5	REG711EA-3/2K5TR-ND	3.0V, 50mA Switched-Cap DC/DC Converter	8-MSOP	3150.00/2,500		
REG711EA-3.3/250	REG711EA3.3250CT-ND	3.3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	1.80	1.40
REG711EA-3.3/250	REG711EA3.3250TR-ND	3.3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	332.50/250		
REG711EA-5/2K5	REG711EA-5/2K5CT-ND	5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	1.80	1.40
REG711EA-5/2K5	REG711EA-5/2K5TR-ND	5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	3150.00/2,500		
TL-SCSI285KC	296-10125-5-ND	2.85V Fixed Volt. Reg. for SCSI	TO-220AB	1.50	1.20	.90
TL-SCSI285PWR	296-10126-1-ND	2.85V Fixed Volt. Reg. for SCSI	20-TSSOP	1.50	1.20	.90
TL-SCSI285PWR	296-10126-2-ND	2.85V Fixed Volt. Reg. for SCSI	20-TSSOP	1560.00/2,000		
TL317CD	296-11823-5-ND	3-Terminal Adj. Regulator	8-SOIC	.50	.40	.30
TL317CLP	296-10167-5-ND	3-Terminal Adj. Regulator	TO-92	.50	.40	.30
TL317CPWR	296-13351-1-ND	3-Terminal Adj. Regulator	8-TSSOP	.50	.40	.30
TL317CPWR	296-13351-2-ND	3-Terminal Adj. Regulator	8-TSSOP	280.00/2,000		
TL497ACD	296-10195-5-ND	1.2V Switching Voltage Regulator	14-SOIC	2.00	1.60	1.20
TL497ACDR	296-10195-1-ND	1.2V Switching Voltage Regulator	14-SOIC	2.00	1.60	1.20
TL497ACDR	296-10195-2-ND	1.2V Switching Voltage Regulator	14-SOIC	2560.00/2,500		
TL497ACN	296-10196-5-ND	1.2V Switching Voltage Regulator	14-Dip	2.00	1.60	1.20
TL497AID	296-10197-5-ND	1.2V Switching Voltage Regulator	14-SOIC	2.13	1.70	1.28
TL497AIDR	296-10197-1-ND	1.2V Switching Voltage Regulator	14-SOIC	2.13	1.70	1.28
TL497AIDR	296-10197-2-ND	1.2V Switching Voltage Regulator	14-SOIC	2720.00/2,500		
TL497AIN	296-10198-5-ND	1.2V Switching Voltage Regulator	14-Dip	2.13	1.70	1.28
TL780-05CKC	296-1803-5-ND	5.0V Positive Voltage Regulator	TO-220AB	.72	.54	.41
TL780-05CKTER	296-12396-1-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	3-PFM	.72	.54	.41
TL780-05CKTER	296-12396-2-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	3-PFM	478.00/2,000		
TL780-05KCS	296-14324-5-ND	5.0V, 1.5A Fixed Positive Voltage Reg. *NEW!*	TO-220	.72	.54	.41
TL780-12CKC	296-10227-5-ND	12V, Fixed Positive Volt. Reg.	TO-220AB	.72	.54	.41
TL780-12KCS	296-14325-5-ND	12V, Fixed Positive Volt. Reg. *NEW!*	TO-220	.72	.54	.41
TL780-15CKC	296-10228-5-ND	15V, Fixed Positive Volt. Reg.	TO-220AB	.72	.54	.41
TL780-15KCS	296-14326-5-ND	15V, Fixed Positive Volt. Reg. *NEW!*	TO-220	.72	.54	.41
TL783CKC	296-10229-5-ND	Adjustable Positive Voltage Reg.	TO-220AB	1.60	1.28	.96
UA78L02ACD	296-11116-5-ND	2.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L02ACLP	296-11117-5-ND	2.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L05ACD	296-1364-5-ND	5.0V, 100mA Regulator	8-SOIC	.40	.32	.24
UA78L05ACDR	296-1364-1-ND	5.0V, 100mA Regulator	8-SOIC	.40	.32	.24
UA78L05ACDR	296-1364-2-ND	5.0V, 100mA Regulator	8-SOIC	270.00/2,500		
UA78L05ACLP	296-1365-ND	5.0V, 100mA Regulator	TO-92	.40	.32	.24
UA78L05ACLPR	296-1365-1-ND	5.0V, 100mA Regulator	TO-92	.40	.32	.24
UA78L05ACLPR	296-1365-2-ND	5.0V, 100mA Regulator	TO-92	224.00/2,000		
UA78L05ACPK	296-11118-1-ND	5.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L05ACPK	296-11118-2-ND	5.0V, 100mA Regulator	SOT-89	112.00/1,000		
UA78L05AILP	296-11119-5-ND	5.0V, 100mA Regulator *NEW!*	TO-92	.45	.36	.27
UA78L05CD	296-11120-5-ND	5.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L05CLP	296-11121-5-ND	5.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L05CPK	296-13531-5-ND	5.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L06ACLP	296-11122-5-ND	6.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L08ACD	296-11123-5-ND	8.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L08ACLP	296-11124-5-ND	8.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L08ACPK	296-11125-1-ND	8.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L08ACPK	296-11125-2-ND	8.0V, 100mA Regulator	SOT-89	112.00/1,000		
UA78L09ACD	296-11126-5-ND	9.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L09ACLP	296-11127-5-ND	9.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L09ACPK	296-14331-5-ND	9.0V, 100mA Regulator *NEW!*	SOT-89	.40	.32	.24
UA78L10ACD	296-11129-5-ND	10.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L10ACLP	296-1996-ND	10.0V, 100mA Regulator	TO-92	.40	.32	.24
UA78L12ACD	296-11130-5-ND	12.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L12ACLP	296-11131-5-ND	12.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L12ACPK	296-11132-1-ND	12.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L12ACPK	296-11132-2-ND	12.0V, 100mA Regulator	SOT-89	112.00/1,000		
UA78L15ACLP	296-11133-5-ND	15.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L15ACPK	296-12002-1-ND	15.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L15ACPK	296-12002-2-ND	15.0V, 100mA Regulator	SOT-89	112.00/1,000		
UA78M05CDCYR	296-12290-1-ND	5.0V, 500mA, Fixed Pos. Volt. Reg.	SOT-223	.56	.42	.32
UA78M05CDCYR	296-12290-2-ND	5.0V, 500mA, Fixed Pos. Volt. Reg.	SOT-223	455.00/2,500		
UA78M05CKC	296-11134-5-ND	5.0V, 500mA Regulator	TO-220	.56	.42	.32
UA78M05CKTPR	296-11135-1-ND	5.0V, 500mA Regulator	2-PFM	.56	.42	.32
UA78M05CKTPR	296-11135-2-ND	5.0V, 500mA Regulator	2-PFM	546.00/3,000		
UA78M06CKTPR	296-1366-1-ND	6.0V, 500mA Regulator	2-PFM	.56	.42	.32
UA78M06CKTPR	296-1366-2-ND	6.0V, 500mA Regulator	2-PFM	546.00/3,000		
UA78M08CDCYR	296-12612-1-ND	8.0V, 500mA Voltage Regulator	SOT-223	.56	.42	.32
UA78M08CDCYR	296-12612-2-ND	8.0V, 500mA Voltage Regulator	SOT-223	455.00/2,500		
UA78M08CKC	296-11136-5-ND	8.0V, 500mA Voltage Regulator	TO-92	.56	.42	.32
UA78M08CKTPR	296-11137-1-ND	8.0V, 500mA Voltage Regulator	2-PFM	.56	.42	.32
UA78M08CKTPR	296-11137-2-ND	8.0V, 500mA Voltage Regulator	2-PFM	546.00/3,000		
UA78M09CKTPR	296-11138-1-ND	9.0V, 500mA Fixed Pos. Voltage Reg.	2-PFM	.56	.42	.32
UA78M09CKTPR	296-11138-2-ND	9.0V, 500mA Fixed Pos. Voltage Reg.	2-PFM	546.00/3,000		
UA78M12CKC	296-11141-5-ND	12.0V, 500mA Fixed Pos. Voltage Reg.	TO-92	.56	.42	.32
UA78M12CKTPR	296-11142-1-ND	12.0V, 500mA Regulator	2-PFM	.56	.42	.32
UA78M12CKTPR	296-11142-2-ND	12.0V, 500mA Regulator	2-PFM	546.00/3,000		
UA78M33CDCYR	296-13424-1-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	SOT-223-4	.56	.42	.32
UA78M33CDCYR	296-13424-2-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	SOT-223-4	455.00/2,500		
UA78M33CKC	296-12722-5-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	TO-92	.56	.42	.32
UA78M33CKTPR	296-13425-1-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	2-PFM	.56	.42	.32
UA78M33CKTPR	296-13425-2-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	2-PFM	546.00/3,000		
UA79M05CKC	296-11144-5-ND	5.0V, 500mA Neg. Volt. Reg. *NEW!*	TO-220	.56	.42	.32
UA79M05CKTPR	296-11145-1-ND	5.0V, 500mA Neg. Volt. Reg. *NEW!*	2-PFM	.56	.42	.32
UA79M05CKTPR	296-11145-2-ND	5.0V, 500mA Neg. Volt. Reg. *NEW!*	2-PFM	546.00/3,000		
UA79M08CKTPR	296-11146-1-ND	8.0V Negative Voltage Regulator	2-PFM	.56	.42	.32
UA79M08CKTPR	296-11146-2-ND	8.0V Negative Voltage Regulator	2-PFM	546.00/3,000		
UA723CD	296-11102-5-ND	Adjustable, Prec Voltage Regulator	14-SOIC	.76	.57	.43
UA723CDR	296-11102-1-ND	Adjustable, Prec Voltage Regulator	14-SOIC	.76	.57	.43
UA723CDR	296-11102-2-ND	Adjustable, Prec Voltage Regulator	14-SOIC	617.50/2,500		
UA723CN	296-11104-5-ND	Adjustable, Prec Voltage Regulator	14-Dip	.76	.57	.43
UA733CN	296-11105-5-ND	Differential Video Amplifier	14-Dip	1.05	.88	.70
UA7805CKC	296-1974-5-ND	5.0V, 1500mA Regulator	TO-220	.52	.39	.30
UA7805CKTER	296-11108-1-ND	5.0V, 1500mA Regulator	3-PFM	.52	.39	.30
UA7805CKTER	296-11108-2-ND	5.0V, 1500mA Regulator	3-PFM	346.00/2,000		
UA7808CKC	296-11109-5-ND	8.0V, 1500mA Regulator	TO-220	.52	.39	.30
UA7808CKTER	296-11110-1-ND	8.0V, 1500mA Regulator	3-PFM	.52	.39	.30
UA7808CKTER	296-11110-2-ND	8.0V, 1500mA Regulator	3-PFM	346.00/2,000		
UA7810CKC	296-1975-5-ND	10.0V, 1500mA Regulator	TO-220	.52	.39	.30
UA7812CKC	296-11111-5-ND	12.0V, 1500mA Regulator	TO-220	.52	.39	.30
UA7812CKTER	296-11112-1-ND	12.0V, 1500mA Regulator	3-PFM	.52	.39	.30
UA7812CKTER	296-11112-2-ND	12.0V, 1500mA Regulator	3-PFM	346.00/2,000		
UA7815CKC	296-11113-5-ND	15V, 1500mA Pos. Volt. Reg. *NEW!*	TO-220	.52	.39	.30
UA7815CKTER	296-11114-1-ND	15V, 1500mA Pos. Volt. Reg. *NEW!*	3-PFM	.52	.39	.30
UA7815CKTER	296-11114-2-ND	15V, 1500mA Pos. Volt. Reg. *NEW!*	3-PFM	346.00/2,000		
UC2577T-ADJ	296-11159-5-ND	Adj., Simple Step Up Volt. Reg.	TO-220-5	7.34	5.88	4.96
UC2577TD-ADJ	296-11160-5-ND	Adj., Simple Step Up Volt. Reg.	TO-263-5	7.34	5.88	4.96
UC29431D	296-11209-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	6.66	5.33	4.50
UC39431D	296-11348-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	4.97	3.98	3.10
UC39431N	296-11349-5-ND	Precision Adjustable Shunt Regulator	8-Dip	4.97	3.98	3.10

TEXAS INSTRUMENTS PRECISION GROUND REFERENCE

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLE2425CD	296-1344-5-ND	2.5V Precision Ground Reference	8-SOIC	1.44	1.20	.96
TLE2425CDR	296-1344-1-ND	2.5V Precision Ground Reference	8-SOIC	1.44	1.20	.96
TLE2425CDR	296-1344-2-ND	2.5V Precision Ground Reference	8-SOIC	1560.00/2,500		
TLE2425CLP	296-1993-ND	2.5V Precision Ground Reference	TO-92	1.40	1.12	.84
TLE2425ID	296-6545-5-ND	2.5V Precision Ground Reference	8-SOP	1.44	1.20	.96
TLE2426CD	296-6547-5-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.32	1.10	.88
TLE2426CLP	296-1994-ND	1/2 Rail Virtual Ground Reference	TO-92	1.32	1.10	.88
TLE2426CP	296-6548-5-ND	1/2 Rail Virtual Ground Reference	8-Dip	1.32	1.10	.88
TLE2426ID	296-1345-5-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.32	1.10	.88
TLE2426IDR	296-1345-1-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.32	1.10	.88
TLE2426IDR	296-1345-2-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1430.00/2,500		
TLE2426IP	296-6550-5-ND	1/2 Rail Virtual Ground Reference	8-Dip	1.32	1.10	.88

TEXAS INSTRUMENTS PROGRAMMABLE GATE ARRAYS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TIBPAL16L8-10CFN	296-10082-5-ND	HP Impact-X PAL Circuits	20-PLCC	2.30	1.84	1.43
TIBPAL16L8-10CN	296-10083-5-ND	HP Impact-X PAL Circuits	20-Dip	2.30	1.84	1.43
TIBPAL16L8-15CFN	296-10084-5-ND	HP Impact PAL Circuits	20-PLCC	1.50	1.20	.90
TIBPAL16L8-15CN	296-10085-5-ND	HP Impact PAL Circuits	20-Dip	1.50	1.20	.90
TIBPAL16L8-25CFN	296-10086-5-ND	Low Power, HP Impact PAL Circuits	20-PLCC	1.40	1.12	.84
TIBPAL16L8-25CN	296-10087-5-ND	Low Power, HP Impact PAL Circuits	20-Dip	1.40	1.12	.84
TIBPAL16R4-15CN	296-10090-5-ND	HP Impact PAL Circuits	20-Dip	1.50	1.20	.90
TIBPAL16R4-25CFN	296-10091-5-ND	Low Power, HP Impact PAL Circuits	20-PLCC	1.40	1.12	.84
TIBPAL16R6-15CN	296-10095-5-ND	HP Impact PAL Circuits	20-Dip	1.35	1.08	.81
TIBPAL16R8-15CN	296-10096-5-ND	HP Impact PAL Circuits	20-Dip	1.50	1.20	.90
TIBPAL16R8-25CFN	296-10097-5-ND	Low Power, HP Impact PAL Circuits	20-PLCC	1.40	1.12	.84
TIBPAL16R8-25CN	296-10098-5-ND	Low Power, HP Impact PAL Circuits	20-Dip	1.40	1.12	.84
TIBPAL20L8-5CFN	296-10101-5-ND	HP Impact-X PAL Circuits	28-PLCC	10.90	9.81	8.70
TIBPAL20L8-5CNT	296-10102-5-ND	HP Impact-X PAL Circuits	24-Dip	10.90	9.81	8.70
TIBPAL20L8-15CFN	296-10100-5-ND	HP Impact PAL Circuits	28-PLCC	2.40	1.92	1.44
TIBPAL20R4-15CNT	296-10103-5-ND	HP Impact PAL Circuits	24-Dip	2.40	1.92	1.44
TIBPAL20R4-25CNT	296-10104-5-ND	Low Power, HP Impact PAL Circuits	24-Dip	1.95	1.56	1.17
TIBPAL20R6-25CNT	296-10108-5-ND	Low Power, HP Impact PAL Circuits	24-Dip	1.95	1.56	1.17
TIBPAL20R8-7CFN	296-10114-5-ND	HP Impact-X PAL Circuits	28-PLCC	5.64	4.52	3.81
TIBPAL20R8-15CNT	296-10111-5-ND	HP Impact PAL Circuits	24-Dip	2.40	1.92	1.44
TIBPAL20R8-25CFN	296-10112-5-ND	Low Power, HP Impact PAL Circuits	28-PLCC	1.95	1.56	1.17
TIBPAL20R8-25CNT	296-10113-5-ND	Low Power, HP Impact PAL Circuits	24-Dip	1.95	1.56	1.17

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

Texas Instruments REALTIME CLOCKS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ48SH-28X6NSH	296-13634-5-ND	SNAPHAT™ with Integrated Battery and Crystal	SNAPHAT™	6.66	5.33	4.50
BQ3285EP	296-2595-5-ND	RealTime Clock	24-Dip	4.28	3.42	2.66
BQ3285ES	296-2596-5-ND	RealTime Clock	24-SOIC	4.28	3.42	2.66
BQ3285ESS	296-2597-5-ND	RealTime Clock	24-SSOP	4.28	3.42	2.66
BQ3285LDSS	296-2599-5-ND	ACPI Compliant RealTime Clock	24-SSOP	4.28	3.42	2.66
BQ3285LFSS-A1	296-6518-5-ND	ACPI Compliant RTC with (240x8) NVSRAM	24-SOP	4.28	3.42	2.66
BQ3285P-SB2	296-2601-5-ND	RealTime Clock	24-Dip	4.28	3.42	2.66
BQ3285S-SB2	296-6519-5-ND	RTC with (114x8) NVSRAM	24-SOP	4.28	3.42	2.66
BQ3287AMT-SB2	296-6520-5-ND	RTC Module with (114x8) NVSRAM	T-MOD	6.68	5.35	4.51
BQ3287EAMT	296-6521-5-ND	RTC Module with (242x8) NVSRAM/Alarm Wake-up	T-MOD	6.68	5.35	4.51
BQ3287EMT	296-6522-5-ND	RTC Module with (242x8) NVSRAM/Alarm Wake-up	T-MOD	6.68	5.35	4.51
BQ3287MT-I	296-6523-5-ND	RTC Module with (114x8) NVSRAM	T-MOD	6.68	5.35	4.51
BQ3287MT-SB2	296-6524-5-ND	RTC Module with (114x8) NVSRAM	T-MOD	6.68	5.35	4.51
BQ4285EP	296-6525-5-ND	RTC with (114x8) NVSRAM Alarm Wake-up	24-Dip	6.70	5.36	4.53
BQ4285P-SB2	296-6527-5-ND	RTC with (114x8) NVSRAM/NVSRAM Control	24-Dip	4.70	3.77	2.93
BQ4285S-SB2	296-6528-5-ND	RTC with (114x8) NVSRAM/NVSRAM Control	24-SOP	4.70	3.77	2.93
BQ4287MT-SB2	296-6529-5-ND	RTC Module with (114x8) NVSRAM/NVSRAM Control	T-MOD	7.56	6.05	5.11
BQ4802LYDWR	296-6530-1-ND	Parallel 3V RTC with CPU Supervisor/ Ext. NVSRAM Control	28-SOIC	5.02	4.02	3.13
BQ4802LYDWR	296-6530-2-ND	Parallel 3V RTC with CPU Supervisor/ Ext. NVSRAM Control	28-SOIC	2843.00/1,000		
BQ4802LYPW	296-12757-5-ND	Parallel 3V RTC with CPU Supervisor/ Ext. NVSRAM Control	28-TSSOP	5.02	4.02	3.13
BQ4802YDW	296-6531-5-ND	Parallel 5V RTC with CPU Supervisor/ Ext. NVSRAM Control	28-SOIC	5.02	4.02	3.13
BQ4802YPW	296-12758-5-ND	Parallel 3V RTC with CPU Supervisor/ Ext. NVSRAM Control	28-TSSOP	5.02	4.02	3.13
BQ4822YMA-70	296-6532-5-ND	RTC Module with (8Kx8) NVSRAM/Watchdog Timer	A-MOD	13.93	12.54	11.12
BQ4830YMA-85	296-6533-5-ND	RTC Module with (32Kx8) NVSRAM	A-MOD	15.39	13.86	12.29
BQ4832YMA-85	296-6534-5-ND	RTC Module with (32Kx8) NVSRAM/Watchdog Timer	A-MOD	16.50	15.40	14.30
BQ4842YMA-85	296-6535-5-ND	RTC Module with (128Kx8) NVSRAM/Watchdog Timer	A-MOD	19.14	17.87	16.59
BQ4845P-A4	296-6536-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-Dip	5.02	4.02	3.13
BQ4845S-A4	296-6537-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOP	5.02	4.02	3.13
BQ4845S-A4N	296-6538-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOP	5.02	4.02	3.13
BQ4845YS-A4	296-6539-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	5.02	4.02	3.13
BQ4845YS-A4N	296-6540-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	5.02	4.02	3.13
BQ4847MT	296-6541-5-ND	RTC with NVSRAM Control/ Watchdog Timer	T-MOD	8.72	6.98	5.89
BQ4847YMT	296-6542-5-ND	RTC with NVSRAM Control/ Watchdog Timer	T-MOD	8.72	6.98	5.89
BQ4850YMA-85	296-6543-5-ND	RTC Module with (512Kx8) NVSRAM	A-MOD	33.00	30.80	28.60
BQ4852YMC-85	296-6544-5-ND	RTC Module with (512Kx8) NVSRAM/Watchdog Timer	C-MOD	38.28	35.73	33.18

Texas Instruments RF PRODUCTS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TRF2052PW	296-1969-5-ND	2GHz Low Voltage Synthesizer	20-TSSOP	4.84	3.87	3.01
TRF4400PW	296-11056-5-ND	420-450MHz Single Chip RF Transmitter	24-TSSOP	3.87	3.10	2.41
TRF4900PW	296-11057-5-ND	850-950MHz Single Chip RF Transmitter	24-TSSOP	3.87	3.10	2.41
TRF5901PTR	296-14059-1-ND	902-928MHz Single-Chip RF Transceiver *NEW!*	48-LQFP	5.72	4.58	3.87
TRF5901PTR	296-14059-2-ND	902-928MHz Single-Chip RF Transceiver *NEW!*	48-LQFP	3575.00/1,000		
TRF6900APT	296-11058-ND	850-950MHz Single Chip RF Transceiver	48-LQFP	5.72	4.58	3.87
TRF6901PT	296-12242-ND	860-930MHz Single Chip RF Transceiver	48-PQFP	5.49	4.40	3.42

Texas Instruments SIGNAL CONTROLLERS

Audio Processors / CODECs

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TAS1020APFB	296-12000-ND	Stereo USB Audio Interface	48-TQFP	5.20	4.16	3.51
TAS1020BPFB	296-13041-5-ND	Stereo USB Audio Interface	48-TQFP	5.47	4.38	3.41
TAS3001CPW	296-2208-5-ND	Stereo Digital Equalizer	28-SOP	3.24	2.60	2.02
TAS3002PFB	296-9977-ND	Digital Audio Processor with CODEC	48-TQFP	5.74	4.60	3.88
TAS3004PFB	296-9978-ND	Digital Audio Processor with CODEC	48-TQFP	6.08	4.87	4.11
TAS3103DBT	296-13820-5-ND	48-Bit Digital Audio Processor *NEW!*	38-TSSOP	6.76	5.41	4.57
TAS5000PFB	296-9979-ND	Digital Audio PWM Processor	48-TQFP	5.84	4.68	3.95
TAS5001IPFB	296-12556-ND	Digital Audio PWM Processor	48-TQFP	4.86	3.89	3.03
TAS5001PFB	296-12212-ND	Digital Audio PWM Processor	48-TQFP	4.34	3.48	2.71
TAS5010IPFB	296-12557-ND	Digital Audio PWM Processor	48-TQFP	5.42	4.34	3.66
TAS5010PFB	296-12213-ND	Digital Audio PWM Processor	48-TQFP	5.45	4.36	3.39
TAS5012IPFB	296-12558-ND	Digital Audio PWM Processor	48-TQFP	8.40	7.56	6.71
TAS5012PFB	296-12214-ND	Digital Audio PWM Processor	48-TQFP	9.00	7.20	6.08
TAS5026APAG	296-14401-ND	Digital Audio PWM Processor *NEW!*	64-TQFP	9.38	7.51	6.34
TAS5026PAG	296-13042-5-ND	Digital Audio PWM Processor	64-TQFP	9.25	8.33	7.39
TAS5036APFC	296-13856-ND	6-Ch. Digital Audio PWM Processor *NEW!*	80-TQFP	15.92	14.86	13.80
TAS5036PFC	296-13043-5-ND	6-Ch. Digital Audio PWM Processor	80-TQFP	15.92	14.86	13.80
TLC320AC01CFN	296-10267-5-ND	14-Bit AIC Audio CODEC	28-PLCC	7.02	5.62	4.74
TLC320AC01CP	296-1982-ND	14-Bit AIC Audio CODEC	64-LQFP	7.02	5.62	4.74
TLC320AC01CPMR	296-1982-1-ND	14-Bit AIC Audio CODEC	64-LQFP	7.02	5.62	4.74
TLC320AC01CPMR	296-1982-2-ND	14-Bit AIC Audio CODEC	64-LQFP	4388.00/1,000		
TLC320AC02CPM	296-10270-ND	1-Channel Bandwidth CODEC	64-LQFP	6.76	5.41	4.57
TLC320AD77CDB	296-2210-5-ND	24-Bit, Stereo CODEC	28-SSOP	5.70	4.56	3.85
TLC320AD545IPT	296-10276-ND	Single Channel CODEC with Hybrid Op Amps	48-QFP	5.64	4.52	3.81
TLC320AD545PT	296-10277-ND	Single Channel CODEC with Hybrid Op Amps	48-QFP	5.64	4.52	3.81
TLV320AIC10CPFB	296-2214-ND	3V to 5.5V, 16-Bit, General Purpose 22KSPS DSP CODEC	48-TQFP	4.52	3.62	2.82
TLV320AIC10IGQER	296-13374-1-ND	3V to 5.5V, 16-Bit, General Purpose 22KSPS DSP CODEC	80-VFBGA	4.86	3.89	3.03
TLV320AIC10IGQER	296-13374-2-ND	3V to 5.5V, 16-Bit, General Purpose 22KSPS DSP CODEC	80-VFBGA	6805.00/2,500		
TLV320AIC10IPFB	296-10702-ND	3V to 5.5V, 16-Bit, General Purpose 22KSPS DSP CODEC	48-QFP	4.86	3.89	3.03
TLV320AIC11CPFB	296-2215-ND	16-Bit, Low Voltage DSP CODEC	48-TQFP	4.52	3.62	2.82
TLV320AIC11IPFB	296-10703-ND	16-Bit, Low Voltage DSP CODEC	48-QFP	4.86	3.89	3.03
TLV320AIC12IDBT	296-12398-5-ND	Low-Power CMOS, 1-Channel, 16-Bit, 3.3V, 26-KSPS CODEC	30-TSSOP	5.64	4.52	3.81
TLV320AIC13IDBT	296-12504-5-ND	Low Power, Low Volt., Single Chan., 16-Bit CODEC	30-TSSOP	6.06	4.85	4.10
TLV320AIC14IDBT	296-12399-5-ND	Low-Power CMOS, 1-Channel, 16-Bit, 3.3V, 26-KSPS CODEC	30-TSSOP	5.42	4.34	3.38
TLV320AIC15IDBT	296-12505-5-ND	Low Power, Low Volt., Single Chan., 16-Bit CODEC	30-TSSOP	5.54	4.44	3.74
TLV320AIC20IPFB	296-12711-ND	Low Power, Programmable Dual Channel CODEC	48-TQFP	7.18	5.75	4.85
TLV320AIC21IPFB	296-12712-ND	Low Power, Low Voltage, Prog. Dual Channel CODEC	48-TQFP	7.60	6.08	5.13
TLV320AIC22PT	296-13375-ND	Dual VOIP CODEC	48-LQFP	7.04	5.64	4.76
TLV320AIC23BGQE	296-13992-5-ND	24-Bit Stereo CODEC for Portable Audio *NEW!*	80-VFBGA	5.70	4.56	3.85
TLV320AIC23GQE	296-12026-5-ND	24-Bit Stereo CODEC for Portable Audio	80-VFBGA	5.70	4.56	3.85
TLV320AIC25IPFB	296-12713-ND	Low Power, Low Voltage, Prog. Dual Channel CODEC	48-TQFP	7.38	5.91	4.99
TLV320AIC1103GQER	296-12708-1-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	80-BGA	5.04	4.04	3.41
TLV320AIC1103GQER	296-12708-2-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	80-BGA	7812.50/2,500		
TLV320AIC1103PBS	296-13001-1-ND	Programmable PCM Codec with Microphone Amps and Speaker Driver	32-TQFP	5.04	4.04	3.41
TLV320AIC1103PBS	296-13001-2-ND	Programmable PCM Codec with Microphone Amps and Speaker Driver	32-TQFP	819.00/250		
TLV320AIC1103PBSR	296-12748-1-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	32-TQFP	5.04	4.04	3.41
TLV320AIC1103PBSR	296-12748-2-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	32-TQFP	3150.00/1,000		
TLV320AIC1107PWR	296-12709-1-ND	Prog. PCM CODEC with Microphone Amps and Speaker Driver	20-TSSOP	5.45	4.36	5.45
TLV320AIC1107PWR	296-12709-2-ND	Prog. PCM CODEC with Microphone Amps and Speaker Driver	20-TSSOP	6172.00/2,000		
TLV320AIC1109PBS	296-13002-1-ND	Programmable PCM Codec with Microphone Amps and Speaker Driver	32-TQFP	5.04	4.04	3.41
TLV320AIC1109PBS	296-13002-2-ND	Programmable PCM Codec with Microphone Amps and Speaker Driver	32-TQFP	819.00/250		
TLV320AIC1110GQER	296-12710-1-ND	Prog. PCM CODEC with Microphone Amps and Speaker Driver	80-BGA	5.14	4.12	5.14
TLV320AIC1110GQER	296-12710-2-ND	Prog. PCM CODEC with Microphone Amps and Speaker Driver	80-BGA	7967.50/2,500		
TLV320AIC1110PBS	296-13508-ND	Prog. PCM Codec with Microphone Amps and Speaker Driver	32-TQFP	5.14	4.12	3.47
TLV320DAC23GQE	296-12027-5-ND	8-96kHz Stereo Audio DAC	80-VFBGA	4.39	3.51	2.73
TWL1102PBS	296-13005-5-ND	Voice Band Audio Processor	32-TQFP	5.96	4.77	4.03
TWL1103GQER	296-11095-1-ND	Voice Band Audio Processor	80-VFBGA	6.50	5.20	4.39
TWL1103GQER	296-11095-2-ND	Voice Band Audio Processor	80-VFBGA	10075.00/2,500		
TWL1103TPBSQ1	296-12962-1-ND	Voice Band Audio Processor	32-TQFP	6.38	5.11	4.31
TWL1103TPBSQ1	296-12962-2-ND	Voice Band Audio Processor	32-TQFP	1036.75/250		

Texas Instruments TEMPERATURE SENSORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TMP100NA/250	296-12749-1-ND	Digital Temperature Sensor	SOT-23-6	1.78	1.42	1.07
TMP100NA/250	296-12749-2-ND	Digital Temperature Sensor	SOT-23-6	248.50/250		
TMP101NA/250	296-12750-1-ND	Digital Temperature Sensor w/Alert	SOT-23-6	1.90	1.52	1.14
TMP101NA/250	296-12750-2-ND	Digital Temperature Sensor w/Alert	SOT-23-6	266.00/250		

Texas Instruments TIMERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NE555DR	296-6501-1-ND	Precision Timer	8-SOIC	.42	.35	.24
NE555DR	296-6501-2-ND	Precision Timer	8-SOIC	277.50/2,500		
NE555P	296-1411-5-ND	Precision Timer	8-Dip	.42	.35	.24
NE555PSR	296-6502-1-ND	Precision Timer	8-SOP	.42	.35	.24
NE555PSR	296-6502-2-ND	Precision Timer	8-SOP	234.00/2,000		
NE556D	296-6503-5-ND	Dual Precision Timer	14-SOIC	.50	.40	.30
NE556N	296-6504-5-ND	Dual Precision Timer	14-Dip	.50	.40	.30
NE556NSR	296-13104-1-ND	Dual Precision Timer	14-SOP	.50	.40	.30
NE556NSR	296-13104-2-ND	Dual Precision Timer	14-SOP	280.00/2,000		
SA555D	296-9681-5-ND	Precision Timer	8-SOP	.68	.51	.39
SA555DR	296-14635-1-ND	Precision Timer *NEW!*	8-SOIC	.68	.51	.39
SA555DR	296-14635-2-ND	Precision Timer *NEW!*	8-SOIC	552.50/2,500		
SA555P	296-9682-5-ND	Precision Timer	8-Dip	.68	.51	.39
SE555D	296-9683-5-ND	Precision Timer	8-SOP	.84	.70	.56
SE555P	296-9684-5-ND	Precision Timer	8-Dip	.84	.70	.56
TLC551CD	296-11822-5-ND	CMOS Timer	8-SOIC	1.17	.98	.78
TLC551CP	296-10333-5-ND	CMOS Timer	8-Dip	1.17	.98	.78
TLC552CD	296-10334-5-ND	CMOS Timer	14-SOIC	1.50	1.20	.90
TLC552CN	296-10335-5-ND	CMOS Timer	14-Dip	1.50	1.20	.90
TLC555CD	296-1336-5-ND	CMOS Timer	8-SOIC	.92	.69	.52

(Continued)

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TEXAS INSTRUMENTS TIMERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC555CDR	296-1336-1-ND	CMOS Timer	8-SOIC	.92	.69	.52
TLC555CDR	296-1336-2-ND	CMOS Timer	8-SOIC	747.50/2,500		
TLC555CP	296-1857-5-ND	CMOS Timer	8-Dip	.92	.69	.52
TLC555CPWR	296-10339-1-ND	CMOS Timer	14-TSSOP	.92	.69	.52
TLC555CPWR	296-10339-2-ND	CMOS Timer	14-TSSOP	612.00/2,000		
TLC555ID	296-1337-5-ND	CMOS Timer	8-SOIC	.75	.63	.50
TLC555IDR	296-1337-1-ND	CMOS Timer	8-SOIC	.75	.63	.50
TLC555IDR	296-1337-2-ND	CMOS Timer	8-SOIC	812.50/2,500		
TLC555IP	296-1858-5-ND	CMOS Timer	8-Dip	.75	.63	.50
TLC555QDR	296-10341-1-ND	CMOS Timer	8-SOIC	.84	.70	.56
TLC555QDR	296-10341-2-ND	CMOS Timer	8-SOIC	910.00/2,500		
TLC556CD	296-1338-5-ND	Dual CMOS Timer	14-SOIC	1.08	.90	.72
TLC556CDR	296-1338-1-ND	Dual CMOS Timer	14-SOIC	1.08	.90	.72
TLC556CDR	296-1338-2-ND	Dual CMOS Timer	14-SOIC	1170.00/2,500		
TLC556CN	296-1859-5-ND	Dual CMOS Timer	14-Dip	1.08	.90	.72
TLC556ID	296-10343-5-ND	Dual CMOS Timer	14-SOIC	1.20	1.00	.80
TLC556IN	296-10344-5-ND	Dual CMOS Timer	14-Dip	1.20	1.00	.80
TLC556MD	296-10345-5-ND	Dual CMOS Timer	14-SOIC	1.75	1.40	1.05

FAIRCHILD SEMICONDUCTOR 7400 SERIES TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM7400N-ND	Quad 2-Input NAND Gate	14-Dip	.96	.72	.54
DM7402N-ND	Quad 2-Input NOR Gate	14-Dip	.96	.72	.54
DM7404N-ND	Hex Inverter	14-Dip	.96	.72	.54
DM7405N-ND	Hex Inverter with Open-Collect Outputs	14-Dip	.96	.72	.54
DM7406M-ND	Hex Inverter with Open-Collect Outputs	14-SOIC	.53	.40	.30
DM7406N-ND	Hex Inverter with Open-Collect Outputs	14-Dip	.53	.40	.30
DM7407M-ND	Hex Buffer with Open-Collect Outputs	14-SOIC	.53	.40	.30
DM7407N-ND	Hex Buffer with Open-Collect Outputs	14-Dip	.53	.40	.30
DM7408N-ND	Quad 2-Input AND Gate	14-Dip	.96	.72	.54
DM7414N-ND	Hex Schmitt Trigger Inverter	14-Dip	.89	.75	.60
DM7416N-ND	Hex Inverter with Open-Collect Outputs	14-Dip	.96	.72	.54
DM7417N-ND	Hex Buffer with Open-Collect Outputs	14-Dip	.96	.72	.54
DM7447AN-ND	BCD-to-7 Segment Decoder/Driver	16-Dip	1.95	1.57	1.18
DM7474N-ND	Dual D-Type Pos.-Edge-Trig. Flip Flop with Preset & Clear	14-Dip	.79	.66	.53
DM7476N-ND	Dual Master Slave J-K Flip Flop with Clear, Preset, and Complementary Outputs	16-Dip	.96	.80	.64
DM7486N-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.96	.80	.64
DM74125N-ND	Tri-State Quad Buffer	14-Dip	3.05	2.40	1.94
DM74145N-ND	BCD-to-Decimal Decoder/Driver	16-Dip	1.60	1.28	.96
DM74150N-ND	16-to-1 Multiplexer	24-Dip	2.33	1.87	1.45
DM9368N-ND	7 Segment Decoder/Driver/Latch	16-Dip	4.70	3.77	2.93

FAIRCHILD SEMICONDUCTOR 74LS00 SERIES TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74LS00M-ND	Quad 2-Input NAND Gate	14-SOIC	.48	.36	.27
DM74LS00N-ND	Quad 2-Input NAND Gate	14-Dip	.48	.36	.27
DM74LS02N-ND	Quad 2-Input NOR Gate	14-Dip	.48	.36	.27
DM74LS03N-ND	Quad 2-Input NAND Gate with Open-Collect Outputs	14-Dip	.48	.36	.27
DM74LS04M-ND	Hex Inverter	14-SOIC	.48	.36	.27
DM74LS04N-ND	Hex Inverter	14-Dip	.53	.40	.30
DM74LS05N-ND	Hex Inverter with Open-Collect Outputs	14-Dip	.53	.40	.30
DM74LS08M-ND	Quad 2-Input AND Gate	14-SOIC	.48	.36	.27
DM74LS08N-ND	Quad 2-Input AND Gate	14-Dip	.53	.40	.30
DM74LS09N-ND	Quad 2-Input AND Gate with Open-Collect Outputs	14-Dip	.62	.47	.36
DM74LS10N-ND	Triple 3-Input NAND Gate	14-Dip	.48	.36	.27
DM74LS11N-ND	Triple 3-Input AND Gate	14-Dip	.48	.36	.27
DM74LS14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.58	.44	.33
DM74LS14N-ND	Hex Schmitt Trigger Inverter	14-Dip	.58	.44	.33
DM74LS20N-ND	Dual 4-Input NAND Gate	14-Dip	.53	.40	.30
DM74LS27N-ND	Triple 3-Input NOR Gate	14-Dip	.53	.40	.30
DM74LS30N-ND	8-Input NAND Gate	14-Dip	.53	.40	.30
DM74LS32M-ND	Quad 2-Input OR Gate	14-SOIC	.53	.40	.30
DM74LS32N-ND	Quad 2-Input OR Gate	14-Dip	.53	.40	.30
DM74LS38N-ND	Quad 2-Input NAND Buffer w/Open-Collect Outputs	14-Dip	.58	.44	.33
DM74LS74AM-ND	Dual D-Type Positive-Edge-Triggered Flip Flop with Preset and Reset	14-SOIC	.58	.44	.33
DM74LS74AN-ND	Dual D-Type Positive-Edge-Triggered Flip Flop with Preset and Reset	14-Dip	.58	.44	.33
DM74LS75N-ND	Quad Latch	16-Dip	.62	.47	.36
DM74LS83AN-ND	4-Bit Binary Full Adder	16-Dip	.62	.47	.36
DM74LS85N-ND	4-Bit Magnitude Comparator	16-Dip	.62	.47	.36
DM74LS86N-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.62	.47	.36
DM74LS90N-ND	Decade Counter	14-Dip	.77	.58	.44
DM74LS109AN-ND	Dual JK Flip Flop	16-Dip	.62	.47	.36
DM74LS112AN-ND	Dual JK Flip Flop	16-Dip	.67	.51	.38
DM74LS123M-ND	Dual Monostable Multivibrator	16-SOIC	.67	.51	.38
DM74LS123N-ND	Dual Monostable Multivibrator	16-Dip	.67	.51	.38
DM74LS125AM-ND	Tri-State Quad Buffer	14-SOIC	.58	.44	.33
DM74LS125AN-ND	Tri-State Quad Buffer	14-Dip	.58	.44	.33
DM74LS132N-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.58	.44	.33
DM74LS138N-ND	Expandable 3/8 Decoder	16-Dip	.72	.54	.41
DM74LS139N-ND	Expandable 2/4 Decoder	16-Dip	.72	.54	.41
DM74LS151N-ND	8-Channel Multiplexer	16-Dip	.72	.54	.41
DM74LS153N-ND	Dual 4-to-1 Multiplexer	16-Dip	.72	.54	.41
DM74LS154N-ND	4-to-16 Decoder/Demultiplexer	24-Dip	4.23	3.39	2.64
DM74LS157N-ND	Quad 2-Input Multiplexer	16-Dip	.72	.54	.41
DM74LS161AN-ND	Presettable Binary Counter	16-Dip	.72	.54	.41
DM74LS163AN-ND	4-Bit Binary Counter, Synchronous	16-Dip	.72	.54	.41
DM74LS164N-ND	8-Bit Parallel Out Shift Register	14-Dip	.72	.54	.41
DM74LS165N-ND	8-Bit Parallel In/Serial Out Shift Register	16-Dip	.72	.54	.41
DM74LS169AN-ND	Up/Down Binary Counter	16-Dip	.72	.54	.41
DM74LS174N-ND	Hex D-Type Flip Flop	16-Dip	.72	.54	.41
DM74LS175N-ND	Quad D-Type Flip Flop	16-Dip	.72	.54	.41
DM74LS191N-ND	Up/Down Binary Counter	16-Dip	.97	.73	.55
DM74LS221N-ND	Dual Monostable with Schmitt Trigger Input	16-Dip	.77	.58	.44
DM74LS240N-ND	Tri-State Octal Inverter Bus/Line Driver	20-Dip	.84	.63	.48
DM74LS241N-ND	Tri-State Octal Line Driver	20-Dip	.84	.63	.48
DM74LS244N-ND	Tri-State Octal Line Driver	20-Dip	.84	.63	.48
DM74LS244WM-ND	Tri-State Octal Line Driver	20-SOIC	.84	.63	.48
DM74LS245N-ND	Tri-State Octal Bus Transceiver	20-Dip	.84	.63	.48
DM74LS245WM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.84	.63	.48
DM74LS253N-ND	Tri-State Dual 4-Input Multiplexer	16-Dip	.82	.62	.46
DM74LS259N-ND	8-Bit Addressable Latch	16-Dip	.82	.62	.46
DM74LS273N-ND	Octal D-Type Flip Flop with Reset	20-Dip	.84	.63	.48
DM74LS279N-ND	Quad SR Latch	16-Dip	.96	.72	.54
DM74LS367AN-ND	Tri-State Hex Buffer	16-Dip	.84	.63	.48
DM74LS373N-ND	Octal D-Type Latch	20-Dip	.84	.63	.48
DM74LS374N-ND	Tri-State Octal D-Type Flip Flop	20-Dip	.84	.63	.48
DM74LS374WM-ND	Tri-State Octal D-Type Flip Flop	20-SOIC	.77	.58	.44
DM74LS377N-ND	8-Bit D-Type Flip Flop	20-Dip	.97	.73	.55
DM74LS393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.96	.72	.54
DM74LS393N-ND	Dual 4-Bit Binary Counter	14-Dip	.96	.72	.54
DM74LS573N-ND	Octal D-Type Latch with Tri-State Outputs	20-Dip	2.39	1.92	1.44

FAIRCHILD SEMICONDUCTOR 74S00 SERIES SCHOTTKY TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74S10N-ND	Triple 3-Input NAND Gate	14-Dip	.82	.62	.46
DM74S51N-ND	Dual 2-Input AND-OR-INV Gate	14-Dip	.82	.62	.46
DM74S64N-ND	AND-OR-INV Gate	14-Dip	1.17	.96	.81
DM74S133N-ND	13 Input NAND Gate	16-Dip	.84	.71	.57
DM74S140N-ND	Dual 50 Ohm Line Driver	14-Dip	1.01	.84	.68
DM74S157N-ND	Quad 2-Input Multiplexer	16-Dip	1.01	.84	.68
DM74S158N-ND	Quad 2-Input Multiplexer, Inverting	16-Dip	1.01	.84	.68
DM74S182N-ND	Look-Ahead Carry Generators	16-Dip	2.61	2.09	1.63
DM74S253N-ND	Tri-State Dual 4-Input Multiplexer (74S153N)	16-Dip	1.31	1.08	.91
DM74S941N-ND	Tri-State Octal Buffer	20-Dip	3.64	2.94	2.38

FAIRCHILD SEMICONDUCTOR 74ALS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74ALS04BM-ND	Hex Inverter	14-SOIC	.54	.44	.33
DM74ALS04BN-ND	Hex Inverter	14-Dip	.54	.44	.33
DM74ALS08N-ND	Quad 2-Input AND Gate	14-Dip	.54	.44	.33
DM74ALS10AM-ND	Triple 3-Input NAND Gate	14-SOIC	.50	.40	.30
DM74ALS10AN-ND	Triple 3-Input NAND Gate	14-Dip	.50	.40	.30
DM74ALS20AN-ND	Dual 4-Input NAND Gate	14-Dip	.50	.40	.30
DM74ALS30AN-ND	8-Input NAND Gate	14-Dip	.55	.44	.33
DM74ALS32N-ND	Quad 2-Input OR Gate	14-Dip	.54	.44	.33
DM74ALS74AN-ND	Dual D-Type Positive-Edge-Triggered Flip Flop with Preset and Clear	14-Dip	.48	.36	.27
DM74ALS138M-ND	Expandable 3/8 Decoder	16-SOIC	.67	.51	.38
DM74ALS174N-ND	Hex D-Type Flip Flop	16-Dip	.62	.47	.35
DM74ALS244AN-ND	Tri-State Octal Line Driver	20-Dip	.79	.60	.45
DM74ALS244AWM-ND	Tri-State Octal Line Driver	20-SOIC	.79	.60	.45
DM74ALS245AWM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.79	.60	.45
DM74ALS257M-ND	Tri-State Quad 2/1 Multiplexer	16-SOIC	.67	.51	.38
DM74ALS258N-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	.71	.59	.50
DM74ALS373N-ND	Octal D-Type Latch	20-Dip	.91	.69	.52
DM74ALS540AN-ND	Octal Inverting Buffer and Line Driver	20-Dip	.94	.79	.63
DM74ALS541N-ND	Octal Buffer/Line Driver with Tri-State Outputs	20-Dip	.94	.79	.63
DM74ALS541WM-ND	Octal Buffer/Line Driver with Tri-State Outputs	20-SOIC	.94	.79	.63
DM74ALS574AN-ND	Octal D-Type Flip Flop	20-Dip	.92	.70	.52
DM74ALS574AWM-ND	Octal D-Type Flip Flop	20-SOIC	.86	.65	.49
DM74ALS646WM-ND	Tri-State Octal Bus Transceiver	24-SOIC	2.42	1.94	1.46
DM74ALS5245N-ND	Octal Bus Transceiver with Schmitt Trigger	20-Dip	1.05	.84	.63

FAIRCHILD SEMICONDUCTOR 74AS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74AS02N-ND	Quad 2-Input NOR Gate	14-Dip	.92	.76	.64
DM74AS10M-ND	Triple 3-Input NAND Gate	14-SOIC	.73	.55	.41
DM74AS10N-ND	Triple 3-Input NAND Gate	14-Dip	.73	.55	.41
DM74AS20N-ND	Dual 4-Input NAND Gate	14-Dip	.92	.76	.64
DM74AS27N-ND	Triple 3-Input NOR Gate	14-Dip	.94	.78	.66
DM74AS30N-ND	8-Input NAND Gate	14-Dip	.73	.55	.41
DM74AS74N-ND	Dual D-Type Positive-Edge-Triggered Flip Flop with Preset and Clear	14-Dip	.94	.71	.53
DM74AS158N-ND	Quad 2-Input Multiplexer, Inverting	16-Dip	1.74	1.43	1.21
DM74AS258M-ND	Tri-State Quad 2/1 Multiplexer	16-SOIC	1.34	1.12	.90
DM74AS258N-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	1.34	1.12	.90
DM74AS286M-ND	9-Bit Parity Generator/Checker	14-SOIC	1.50	1.26	1.01
DM74AS286N-ND	9-Bit Parity Generator/Checker	14-Dip	1.40	1.17	.94
DM74AS373N-ND	Octal D-Type Latch	20-Dip	1.80	1.45	1.09
DM74AS648NT-ND	Octal Bus Transceiver	24-Dip .3"	5.88	4.75	3.85
DM74AS1000AM-ND	Quad 2-Input NAND Driver	14-SOIC	1.34	1.12	.90
DM74AS1000AN-ND	Quad 2-Input NAND Driver	14-Dip	1.34	1.12	.90
DM74AS1032AN-ND	Quad 2-Input OR Driver	14-Dip	1.34	1.12	.90
DM74AS1034AM-ND	Hex Non-Inverting Driver	14-SOIC	1.34	1.12	.90

FAIRCHILD SEMICONDUCTOR 74LCX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LCX08MTC-ND	Quad 2-Input AND Gate	14-TSSOP	.42	.34	.26
74LCX74MTC-ND	Dual D-Type Edge-Triggered Flip-Flop	14-TSSOP	.48	.39	.29
74LCX244MTC-ND	Tri-State Buffer/Line Driver	20-TSSOP	.62	.47	.36
74LCX245MTC-ND	Bi-Directional Octal Transceiver	20-TSSOP	.67	.51	.38
74LCX541WM-ND	Octal Buffer/Line Driver	20-SOIC	.77	.58	.44
74LCX573MTC-ND	Octal D-Type Latch	20-TSSOP	.77	.58	.44
74LCX16244MEA-ND	16-Bit Buffer/Line Driver	48-SSOP	1.45	1.21	.97
74LCX16244MTD-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.12	.94	.75
74LCX16245MEA-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.45	1.21	.97
74LCX16245MTD-ND	16-Bit Bidirectional Transceiver	48-TSSOP	1.12	.94	.75
74LCX16373MEA-ND	16-Bit Transparent Latch with Tri-State Outputs	48-SSOP	1.45	1.21	.97
74LCX16373MTD-ND	Tri-State, 16-Bit, Transparent D-Type Latch	48-TSSOP	1.12	.94	.75

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74LVQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVQ00SC-ND	Low Voltage Quad 2-Input NAND Gate	14-SOIC	.97	.73	.55
74LVQ08SC-ND	Low Voltage Quad 2-Input AND Gate	14-SOIC	.97	.73	.55
74LVQ14SC-ND	Low Voltage Hex Schmitt Trigger	14-SOIC	.97	.73	.55
74LVQ74SC-ND	Low Voltage Dual D-Type Positive-Edge-Trigger Flip Flop with Preset and Clear	14-SOIC	.89	.75	.60
74LVQ138SC-ND	Low Voltage Expandable 3/8 Decoder	16-SOIC	1.25	1.05	.84
74LVQ151SC-ND	Low Voltage 8-Input Multiplexer	16-SOIC	1.25	1.05	.84
74LVQ240QSC-ND	Tri-State Octal Inverter Bus/Line Driver	20-SSOP	2.54	2.01	1.62
74LVQ573SC-ND	Low Voltage Tri-State Octal D-Type Latch	20-SOIC	1.51	1.21	.91

74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVX125M-ND	Quad Buffer with Tri-State Outputs	14-SOIC	.53	.40	.30
74LVX240M-ND	Tri-State Octal Line Bus/Line Driver	20-SOIC	.72	.54	.41
74LVX244M-ND	3V CMOS Octal Tri-State Buffer	20-SOIC	.72	.54	.41
74LVX245M-ND	Low Voltage Octal Bidirectional Transceiver	20-SOIC	.72	.54	.41
74LVX74M-ND	Dual D-Type Positive-Edge-Triggered Flip Flop	14-SOIC	.57	.46	.35
74LVXC3245MTC-ND	Tri-State 8-Bit Dual Transceiver	24-TSSOP	1.54	1.24	.93

74C00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MM74C00N-ND	Quad 2-Input NAND Gate	14-Dip	1.49	1.20	.90
MM74C04N-ND	Hex Inverter (4069)	14-Dip	1.49	1.20	.90
MM74C08N-ND	Quad 2-Input AND Gate	14-Dip	1.49	1.20	.90
MM74C14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.83	.69	.55
MM74C14N-ND	Hex Schmitt Trigger Inverter (40106B)	14-Dip	.83	.69	.55
MM74C48N-ND	BCD-to-7 Segment Decoder	16-Dip	2.97	2.38	1.85
MM74C74M-ND	Dual D-Type Flip Flop	14-SOIC	2.09	1.67	1.26
MM74C74N-ND	Dual D-Type Flip Flop	14-Dip	2.09	1.67	1.26
MM74C76N-ND	Dual JK Flip Flop with Clear and Preset	16-Dip	2.20	1.76	1.32
MM74C150N-ND	16-to-1 Multiplexer	24-Dip	5.57	4.46	3.47
MM74C154N-ND	4-to-16 Decoder/Demultiplexer	24-Dip	5.85	4.69	3.96
MM74C221N-ND	Dual Monostable with Schmitt Trigger	16-Dip	4.53	3.63	2.82
MM74C244N-ND	Tri-State Octal Buffer	20-Dip	4.38	3.51	2.73
MM74C906M-ND	Hex Open Drain Buffer	14-SOIC	2.37	1.90	1.42
MM74C906N-ND	Open Drain Buffer (Active Pull Down)	14-Dip	2.37	1.90	1.42
MM74C908N-ND	Dual CMOS 30 Volt Driver	8-Dip	3.22	2.58	2.01
MM74C911N-ND	Display Controller	28-Dip	12.19	10.98	9.73
MM74C912N-ND	Display Controller	28-Dip	12.19	10.98	9.73
MM74C914N-ND	Hex Schmitt Trigger with Ext. Input Volt.	14-Dip	3.47	2.78	2.16
MM74C922N-ND	16-Key Encoder	18-Dip	6.82	5.46	4.61
MM74C923N-ND	20-Key Encoder	20-Dip	6.82	5.46	4.61
MM74C923WM-ND	3V to 15V, 20-Key Encoder	20-SOIC	6.82	5.46	4.61
MM74C926N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	9.71	8.75	7.76
MM74C928N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	9.02	7.22	6.09
MM88C30N-ND	CMOS Dual Line Driver	14-Dip	5.50	4.40	3.72

74HC00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MM74HC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.39	.32	.22
MM74HC00N-ND	Quad 2-Input NAND Gate	14-Dip	.39	.32	.22
MM74HC02M-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
MM74HC02N-ND	Quad 2-Input NOR Gate	14-Dip	.42	.34	.26
MM74HC04M-ND	Hex Inverter	14-SOIC	.39	.32	.22
MM74HC04N-ND	Hex Inverter	14-Dip	.42	.34	.26
MM74HC08M-ND	Quad 2-Input AND Gate	14-SOIC	.39	.32	.22
MM74HC08N-ND	Quad 2-Input AND Gate	14-Dip	.48	.39	.29
MM74HC14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.47	.38	.26
MM74HC14N-ND	Hex Schmitt Trigger Inverter	14-Dip	.48	.39	.29
MM74HC32M-ND	Quad 2-Input OR Gate	14-SOIC	.39	.32	.22
MM74HC32N-ND	Quad 2-Input OR Gate	14-Dip	.39	.32	.22
MM74HC74AM-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOIC	.47	.38	.26
MM74HC74AN-ND	Dual D-Type Flip Flop with Preset and Clear	14-Dip	.48	.39	.29
MM74HC86N-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.48	.39	.29
MM74HC123AM-ND	Dual Monostable Multivibrator	16-SOIC	.48	.36	.27
MM74HC123AN-ND	Dual Monostable Multivibrator	16-Dip	.48	.36	.27
MM74HC125M-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
MM74HC125N-ND	Tri-State Quad Buffer	14-Dip	.48	.36	.27
MM74HC126M-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
MM74HC126N-ND	Tri-State Quad Buffer	14-Dip	.48	.36	.27
MM74HC132M-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.48	.36	.27
MM74HC132N-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.48	.36	.27
MM74HC138M-ND	3-to-8 Line Decoder	16-SOIC	.48	.36	.27
MM74HC138N-ND	3-to-8 Line Decoder	16-Dip	.58	.44	.33
MM74HC139M-ND	Dual 2-to-4 Line Decoder	16-SOIC	.48	.36	.27
MM74HC139N-ND	Dual 2-to-4 Line Decoder	16-Dip	.58	.44	.33
MM74HC151N-ND	8-Channel Multiplexer	16-Dip	.53	.40	.30
MM74HC154N-ND	4-to-16 Line Decoder (.3” Lead Spacing)	24-Dip	1.32	1.10	.88
MM74HC154WM-ND	4-to-16 Line Decoder	24-SOIC	1.32	1.10	.88
MM74HC157N-ND	Quad 2-Input Multiplexer	16-Dip	.53	.40	.30
MM74HC161M-ND	Synchronous Binary Counter with Asynchronous Clear	16-SOIC	.58	.44	.33
MM74HC161N-ND	Synchronous Binary Counter with Asynchronous Clear	16-Dip	.67	.51	.38
MM74HC163N-ND	Synchronous Binary Counter with Synchronous Clear	16-Dip	.67	.51	.38
MM74HC164N-ND	8-Bit Serial-In Parallel-Out Shift Register	14-Dip	.58	.44	.33
MM74HC165M-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.58	.44	.33
MM74HC165N-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.58	.44	.33
MM74HC174N-ND	Hex D-Type Flip Flop with Clear	16-Dip	.58	.44	.33
MM74HC175N-ND	Quad D-Type Flip Flop with Clear	16-Dip	.58	.44	.33
MM74HC221AM-ND	Dual Non-Retriggered Monostable Multivibrator	16-SOIC	.77	.58	.44
MM74HC221AN-N D	Dual Non-Retriggered Monostable Multivibrator	16-Dip	.77	.58	.44
MM74HC240N-ND	Tri-State Octal Inverter Bus/Line Driver	20-Dip	.48	.36	.27
MM74HC244N-ND	Tri-State Octal Line Driver	20-Dip	.58	.44	.33
MM74HC244WM-ND	Tri-State Octal Line Driver	20-SOIC	.48	.36	.27
MM74HC245AN-ND	Tri-State Octal Bus Transceiver	20-Dip	.58	.44	.33
MM74HC245AWM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.36	.27
MM74HC251N-ND	8-Channel Tri-State Multiplexer	16-Dip	.58	.44	.33
MM74HC259M-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-SOIC	.58	.44	.33
MM74HC259N-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-Dip	.58	.44	.33
MM74HC273N-ND	Octal D-Type Flip-Flop	20-Dip	.67	.51	.38
MM74HC273WM-ND	Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
MM74HC373N-ND	Tri-State Octal D-Type Latch	20-Dip	.58	.44	.33
MM74HC373WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.48	.36	.27
MM74HC374N-ND	Tri-State Octal D-Type Flip Flop	20-Dip	.58	.44	.33
MM74HC374WM-ND	Tri-State Octal D-Type Flip Flop	20-SOIC	.48	.36	.27
MM74HC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.67	.51	.38
MM74HC393N-ND	Dual 4-Bit Binary Counter	14-Dip	.67	.51	.38
MM74HC423AN-ND	Dual Monostable Multivibrator	16-Dip	.86	.65	.49
MM74HC540N-ND	Octal Inverting Buffer and Line Driver	20-Dip	.72	.54	.41
MM74HC541N-ND	Tri-State Octal Buffer	20-Dip	.72	.54	.41
MM74HC541WM-ND	Tri-State Octal Buffer	20-SOIC	.72	.54	.41
MM74HC573N-ND	Tri-State Octal D-Type Latch	20-Dip	.72	.54	.41
MM74HC573WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.72	.54	.41
MM74HC574N-ND	Tri-State Octal D-Type Flip Flop	20-Dip	.72	.54	.41
MM74HC574WM-ND	Tri-State Octal D-Type Flip Flop	20-SOIC	.72	.54	.41
MM74HC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.58	.44	.33
MM74HC595N-ND	8-Bit Shift Register with Output Latches	16-Dip	.58	.44	.33
MM74HC688N-ND	8-Bit Magnitude Comparator (Equality Detector)	20-Dip	.86	.65	.49
MM74HC4020N-ND	14 Stage Binary Counter	16-Dip	.67	.51	.38
MM74HC4040M-ND	12 Stage Binary Counter	16-SOIC	.62	.47	.36
MM74HC4040N-ND	12 Stage Binary Counter	16-Dip	.62	.47	.36
MM74HC4046M-ND	CMOS Phase Lock Loop	16-SOIC	.62	.47	.36
MM74HC4046N-ND	CMOS Phase Lock Loop	16-Dip	.67	.51	.38
MM74HC4049N-ND	Hex Inverting Logic Level Down Converter	16-Dip	.67	.51	.38
MM74HC4051M-ND	8-Channel Analog Multiplexer	16-SOIC	.67	.51	.38
MM74HC4051N-ND	8-Channel Analog Multiplexer	16-Dip	.67	.51	.38
MM74HC4051WM-ND	8-Channel Analog Multiplexer	16-SOIC	.67	.51	.38
MM74HC4052N-ND	Dual 4-Channel Analog Multiplexer	16-Dip	.67	.51	.38
MM74HC4053M-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.67	.51	.38
MM74HC4053N-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.67	.51	.38
MM74HC4053WM-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.67	.51	.38
MM74HC4060N-ND	14 Stage Binary Counter	16-Dip	.67	.51	.38
MM74HC4046N-ND	CMOS Phase Lock Loop	16-Dip	.67	.51	.38
MM74HC4049N-ND	Hex Inverting Logic Level Down Converter	16-Dip	.67	.51	.38
MM74HC4051M-ND	8-Channel Analog Multiplexer	16-SOIC	.67	.51	.38
MM74HC4051N-ND	8-Channel Analog Multiplexer	16-Dip	.67	.51	.38
MM74HC4051WM-ND	8-Channel Analog Multiplexer	16-SOIC	.67	.51	.38
MM74HC4052N-ND	Dual 4-Channel Analog Multiplexer	16-Dip	.67	.51	.38
MM74HC4053M-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.67	.51	.38
MM74HC4053N-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.67	.51	.38
MM74HC4053WM-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.67	.51	.38
MM74HC4060N-ND	14 Stage Binary Counter	16-Dip	.67	.51	.38
MM74HC4066N-ND	Quad Analog Switch	14-Dip	.67	.51	.38
MM74HC4316N-ND	Quad Analog Switch	16-Dip	.67	.51	.38
MM74HC4316WM-ND	Quad Analog Switch	16-SOIC	.67	.51	.38
MM74HC4514N-ND	4-to-16 Line Decoder with Latch (.3” Lead Spacing)	24-Dip	1.25	1.05	.84
MM74HC4538M-ND	Dual Retriggerable Monostable Multivibrator	16-SOIC	.72	.54	.41
MM74HC4538N-ND	Dual Retriggerable Monostable Multivibrator	16-Dip	.72	.54	.41

74HCT00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MM74HCT04N-ND	Hex Inverter	14-Dip	.42	.34	.26
MM74HCT244N-ND	Tri-State Octal Buffer	20-Dip	.62	.47	.36
MM74HCT244WM-ND	Tri-State Octal Buffer	20-SOIC	.48	.36	.27
MM74HCT245N-ND	Tri-State Octal Bus Transceiver	20-Dip	.58	.44	.33
MM74HCT245WM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.36	.27
MM74HCT373N-ND	Tri-State Octal D-Type Latch	20-Dip	.58	.44	.33
MM74HCT374N-ND	Tri-State Octal D-Type Flip Flop	20-Dip	.58	.44	.33
MM74HCT541N-ND	Tri-State Octal Buffer	20-Dip	.79	.60	.45

74VHC SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74VHC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.50	.41	.28
74VHC04M-ND	Hex Inverter	14-SOIC	.42	.34	.26
74VHC08M-ND	Quad 2-Input AND Gate	14-SOIC	.42	.34	.26
74VHC14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.48	.39	.29
74VHC32M-ND	Quad 2-Input OR Gate	14-SOIC	.42	.34	.26
74VHC74M-ND	Dual D-Type Flip Flop	14-SOIC	.48	.39	.29
74VHC86M-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.48	.39	.29
74VHC123AM-ND	Dual Monostable Multivibrator	16-SOIC	.53	.40	.30
74VHC139M-ND	Dual 2-to-4 Decoder/Demultiplexer	16-SOIC	.58	.44	.33
74VHC157MTC-ND	Quad 2-Input Multiplexer	16-TSSOP	.58	.44	.33
74VHC244M-ND	Tri-State Octal Non-Inverting Buffer/Line Driver	20-SOIC	.62	.47	.36
74VHC373M-ND	Tri-State Octal D-Type Latch	20-SOIC	.62	.47	.36
74VHC374MTC-ND	Tri-State Octal D-Type Flip Flop	20-TSSOP	.62	.47	.36
74VHC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.86	.65	.49
74VHC393MTC-ND	Dual 4-Bit Binary Counter	14-SSOP	.86	.65	.49
74VHC541MTC-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.82	.62	.46
74VHC573M-ND	Tri-State Octal D-Type Latch	20-SOIC	.82	.62	.46
74VHC574MTC-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.82	.62	.46
74VHC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.82	.62	.46

74ABT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ABT125CSC-ND	Tri-State Quad Buffer	14-SOIC	.77	.58	.44
74ABT241CMSA-ND	Tri-State Octal Line Driver	20-SSOP	.83	.69	.55
74ABT244CMSA-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.83	.69	.55
74ABT244CSC-ND	Tri-State Octal Line Driver	2O-SOIC	.86	.65	.49
74ABT245CSC-ND	Tri-State Octal Bus Transceiver	2O-SOIC	.86	.65	.49

(Continued)

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74ABT SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ABT273CMSA-ND	Octal D-Type Flip Flop	20-SSOP	.92	.77	.62
74ABT541CSC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.83	.69	.55
74ABT16244CSSC-ND	16-Bit, Tri-State Buffer/Line Driver	48-SSOP	1.32	1.10	.88
74ABT16245CSSC-ND	16-Bit, Tri-State Bidirectional Transceiver	48-SSOP	1.32	1.10	.88
74ABT16373CSSC-ND	16-Bit, D-Type Latch with Tri-State Outputs	48-SSOP	1.27	1.02	.76
74ABT16374CSSC-ND	16-Bit, D-Type Flip Flop with Tri-State Outputs	48-SSOP	1.27	1.02	.76
74ABT2244CMSA-ND	Octal Buffer Line Driver with Series Resistor Included	20-SSOP	.99	.83	.66
74ABT2244CSC-ND	Octal Buffer Line Driver with Series Resistor Included	20-SOIC	.86	.65	.49

FACT™ ADVANCED CMOS TECHNOLOGY 74AC

These are high speed CMOS devices with CMOS input switching levels and buffered CMOS outputs.

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74AC00PC-ND	Quad 2-Input NAND Gate	14-Dip	.48	.36	.27
74AC00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.26
74AC02PC-ND	Quad 2-Input NOR Gate	14-Dip	.54	.44	.33
74AC02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.42	.34	.26
74AC04PC-ND	Hex Inverter	14-Dip	.48	.36	.27
74AC04SC-ND	Hex Inverter	14-SOIC	.48	.39	.29
74AC08PC-ND	Quad 2-Input AND Gate	14-Dip	.54	.44	.33
74AC08SC-ND	Quad 2-Input AND Gate	14-SOIC	.42	.34	.26
74AC11SC-ND	Triple 3-Input AND Gate	14-SOIC	.42	.34	.26
74AC14PC-ND	Hex Schmitt Trigger Inverter	14-Dip	.53	.40	.30
74AC14SC-ND	Hex Schmitt Trigger Inverter	14-SOIC	.48	.39	.29
74AC20PC-ND	Dual 4-Input NAND Gate	14-Dip	.48	.39	.29
74AC32PC-ND	Quad 2-Input OR Gate	14-Dip	.48	.36	.27
74AC32SC-ND	Quad 2-Input OR Gate	14-SOIC	.42	.34	.26
74AC74PC-ND	Dual D-Type Flip Flop with Set and Reset	14-Dip	.48	.36	.27
74AC74SC-ND	Dual D-Type Flip Flop with Set and Reset	14-SOIC	.45	.36	.27
74AC86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.48	.39	.29
74AC109SC-ND	Dual JK Positive-Edge-Triggered Flip Flop	16-SOIC	.62	.47	.36
74AC125SC-ND	Tri-State Quad Buffer	14-SOIC	.58	.44	.33
74AC138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.62	.47	.36
74AC138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.62	.47	.36
74AC139SC-ND	Dual 1-of-4 Decoder/Demultiplexer	16-SOIC	.62	.47	.36
74AC151PC-ND	8-Input Fact Multiplexer	16-Dip	.62	.47	.36
74AC151SC-ND	8-Input Fact Multiplexer	16-SOIC	.62	.47	.36
74AC161PC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.67	.51	.38
74AC161SC-ND	Synchronous Presettable 4-Bit Binary Counter	16-SOIC	.67	.51	.38
74AC174SC-ND	Hex D-Type Flip Flop	16-SOIC	.67	.51	.38
74AC175SC-ND	Quad D-Type Flip Flop	16-SOIC	.67	.51	.38
74AC244SC-ND	Octal Buffer/Line Driver	20-SOIC	.62	.47	.36
74AC245SC-ND	Octal Bidirectional Transceiver	20-SOIC	.62	.47	.36
74AC257SC-ND	Quad 2-Input Multiplexer	16-SOIC	.67	.51	.38
74AC541SC-ND	Octal Buffer/Line Driver	20-SOIC	.96	.72	.54
74AC273SC-ND	Octal D-Type Flip Flop with Reset	20-SOIC	.62	.47	.36
74AC299SC-ND	Octal Shift/Storage	20-SOIC	1.38	1.10	.83
74AC373SC-ND	Octal D-Type Latch	20-SOIC	.62	.47	.36
74AC521SC-ND	8-Bit Comparator	20-SOIC	.96	.72	.54
74AC540SC-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.96	.72	.54
74AC541PC-ND	Octal Buffer/Line Driver with Tri-State Output	20-Dip	.96	.72	.54

74LVT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVT245MTC-ND	Tri-State Octal Bidirectional Transceiver	20-TSSOP	.79	.60	.45

74LVTH SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVTH244MTC-ND	Low Volt. Tri-State Octal Buffer/Line Driver	20-TSSOP	.96	.72	.54
74LVTH16244MTD-ND	16-Bit, Tri-State, Low Voltage Buffer/Line Driver	48-TSSOP	1.12	.94	.75
74LVTH16245MEA-ND	16-Bit, Tri-State, Low Voltage Transceiver	48-SSOP	1.45	1.21	.97
74LVTH16245MTD-ND	16-Bit, Tri-State, Low Voltage Transceiver	48-TSSOP	1.12	.94	.75

74ACQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACQ544SC-ND	Tri-State Octal Inverting Registered Transceiver	20-SOIC	5.49	4.44	3.59
74ACQ564PC-ND	Tri-State Octal Inverting D-Type Flip Flop	20-Dip	3.12	2.52	2.04
74ACQ646SC-ND	Tri-State Octal Transceiver Register	24-SOIC	7.43	5.94	5.12

74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACT00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.26
74ACT02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.48	.36	.27
74ACT04PC-ND	Hex Inverter	14-Dip	.53	.40	.30
74ACT04SC-ND	Hex Inverter	14-SOIC	.48	.36	.27
74ACT08SC-ND	Quad 2-Input AND Gate	14-SOIC	.42	.34	.26
74ACT32SC-ND	Quad 2-Input OR Gate	14-SOIC	.48	.39	.29
74ACT74PC-ND	Dual D-Type Positive-Edge-Trigger Flip Flop	14-Dip	.54	.44	.33
74ACT74SC-ND	Dual D-Type Positive-Edge-Trigger Flip Flop	14-SOIC	.48	.39	.29
74ACT109SC-ND	Dual JK Flip Flop	16-SOIC	.62	.47	.36
74ACT125SC-ND	Tri-State Quad Buffer	14-SOIC	.58	.44	.33
74ACT138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.62	.47	.36
74ACT151PC-ND	8-Input Multiplexer	16-Dip	.62	.47	.36
74ACT157PC-ND	Quad 2-Input Multiplexer	16-Dip	.62	.47	.36
74ACT157SC-ND	Quad 2-Input Multiplexer	16-SOIC	.62	.47	.36
74ACT158PC-ND	Quad 2-Input Multiplexer, Inverting	16-Dip	.66	.55	.46
74ACT161SC-ND	Synchronous Presettable Binary Counter	16-SOIC	.67	.51	.38
74ACT163PC-ND	4-Bit Binary Counter Synchronous Receiver	16-Dip	.67	.51	.38
74ACT174SC-ND	Hex D-Type Flip Flop with Master Reset	16-SOIC	.67	.51	.38
74ACT175SC-ND	Quad D-Type Flip Flop	16-SOIC	.67	.51	.38
74ACT244PC-ND	Octal Buffer/Line Driver	20-Dip	.62	.47	.36
74ACT244SC-ND	Octal Buffer/Line Driver	20-SOIC	.62	.47	.36
74ACT245SC-ND	Octal Bidirectional Transceiver	20-SOIC	.62	.47	.36
74ACT251PC-ND	8-Bit Multiplexer	16-Dip	.62	.47	.36
74ACT251SC-ND	8-Bit Multiplexer	16-SOIC	.62	.47	.36
74ACT373SC-ND	Octal Transparent Latch	20-SOIC	.62	.47	.36
74ACT374SC-ND	Octal D-Type Flip Flop	20-SOIC	.62	.47	.36
74ACT520SC-ND	Comparator with Resistor	20-SOIC	.96	.72	.54
74ACT573PC-ND	Tri-State Octal D-Type Latch	20-Dip	.86	.65	.49
74ACT574SC-ND	Tri-State Octal D-Type Flip Flop	20-SOIC	.86	.65	.49
74ACT899QC-ND	9-Bit Bidirectional Latch	28-PLCC	7.82	6.26	5.39
74ACT1284MSA-ND	IEEE 1284 Transceiver	20 SSOP	1.09	.91	.73
74ACT2708PC-ND	64x9 First-In First-Out Memory	28-Dip	14.90	13.42	11.90

NM95HS HIGH SECURITY SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NM95HS01EM-ND	Rolling Code Generator High Temp (RC OSC)	14-SOIC	3.12	2.52	2.04
NM95HS01EM8-ND	Rolling Code Generator High Temp (RC OSC)	8-SOIC	4.29	3.47	2.81
NM95HS01N-ND	Rolling Code Generator (RC OSC)	8-Dip	3.90	3.15	2.55
NM95HS01N14-ND	Rolling Code Generator (RC OSC)	14-Dip	3.90	3.15	2.55
NM95HS02EN-ND	Rolling Code Generator High Temp (XTAL OSC)	8-Dip	4.29	3.47	2.81
NM95HS02N-ND	Rolling Code Generator (XTAL OSC)	8-Dip	3.90	3.15	2.55
NM95HS02N14-ND	Rolling Code Generator (XTAL OSC)	14-Dip	3.90	3.15	2.55

74ACTQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACTQ00SC-ND	Quad 2-Input NAND Gate, Quiet Series	14-SOIC	.92	.77	.62
74ACTQ10PC-ND	Triple 3-Input NAND Gate, Quiet Series	14-Dip	1.20	.62	.47
74ACTQ14SC-ND	Hex Schmitt Trigger Inverting, Quiet Series	14-SOIC	.92	.77	.62
74ACTQ245SC-ND	Octal Bidirectional Transceiver, Quiet Series	20-SOIC	1.73	1.39	1.04
74ACTQ273SC-ND	Octal D-Type Flip Flop	20-SOIC	1.73	1.39	1.04
74ACTQ16244SSC-ND	16-Bit Buffer/Line Driver	48-SSOP	3.71	2.97	2.31
74ACTQ16374SSC-ND	16-Bit D-Type Flip Flop	48-SSOP	3.71	2.97	2.31

74F – FAST™ ADVANCED SCHOTTKY TTL LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74F00PC-ND	Quad 2-Input NAND Gate	14-Dip	.48	.36	.27
74F00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.26
74F04PC-ND	Hex Inverter	14-Dip	.48	.36	.27
74F04SC-ND	Hex Inverter	14-SOIC	.48	.36	.27
74F08PC-ND	Quad 2-Input AND Gate	14-Dip	.48	.36	.27
74F08SC-ND	Quad 2-Input AND Gate	14-SOIC	.42	.34	.26
74F14SC-ND	Hex Inverter Schmitt Trigger	14-SOIC	.48	.36	.27
74F32SC-ND	Quad 2 Input OR Gate	14-SOIC	.42	.34	.26
74F37PC-ND	Quad 2-Input Positive NAND Buffer	14-Dip	.48	.36	.27
74F38SC-ND	Quad 2-Input NAND Buffer	14-SOIC	.54	.44	.33
74F74PC-ND	Dual D-Type Positive-Edge-Triggered Flip Flop	14-Dip	.48	.36	.27
74F74SC-ND	Dual D-Type Positive-Edge-Triggered Flip Flop	14-SOIC	.48	.39	.29
74F86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.48	.39	.29
74F109PC-ND	Dual JK Positive-Edge-Triggered Flip Flop	16-Dip	.62	.47	.36
74F112PC-ND	Dual JK Negative-Edge-Triggered Flip Flop	16-Dip	.48	.36	.27
74F125PC-ND	Tri-State Quad Buffer	14-Dip	.58	.44	.33
74F125SC-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
74F138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.53	.40	.30
74F157ASC-ND	Quad 2-Input Multiplexer	16-SOIC	.53	.40	.30
74F161APC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.62	.47	.36
74F175SC-ND	Quad D-Type Flip Flop	16-SOIC	.53	.40	.30
74F181PC-ND	4-Bit Arithmetic Logic Unit	24-Dip	2.55	2.04	1.59
74F182PC-ND	Carry Lookahead Generator	16-Dip	1.82	1.46	1.09
74F189SC-ND	64-Bit Random Access Memory	16-SOIC	4.00	3.24	2.62
74F190PC-ND	Up/Down Decade Counter	16-Dip	1.38	1.10	.83
74F244PC-ND	Tri-State Octal Line Driver	20-Dip	.96	.72	.54
74F244SC-ND	Tri-State Octal Line Driver	20-SOIC	.62	.47	.36
74F245PC-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.54	.41
74F245SC-ND	Tri-State Octal Bus Transceiver	20-SOIC	.62	.47	.36
74F258APC-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	.57	.43	.33
74F269SPC-ND	8-Bit Up/Down Counter	24-Dip	1.82	1.46	1.09
74F273PC-ND	Octal D-Type Flip Flop	20-Dip	.72	.54	.41
74F299PC-ND	8-Input Universal Shift/Store Register	20-Dip	.86	.72	.58
74F350PC-ND	4-Bit Shifter	16-Dip	1.13	.89	.72
74F373PC-ND	Octal Transparent Latch	20-Dip	.72	.54	.41
74F373SC-ND	Octal Transparent Latch	20-SOIC	.62	.47	.36
74F374SC-ND	Octal D-Type Flip Flop	20-SOIC	.62	.47	.36
74F381PC-ND	4-Bit Arithmetic Logic Unit	16-Dip	1.18	.95	.71
74F398PC-ND	Quad 2-Port Register	20-Dip	.86	.71	.60
74F541SC-ND	Octal Buffer/Line Driver	20-SOIC	.76	.64	.51
74F543PC-ND	Octal Registered Transceiver	24-Dip	1.32	1.10	.88
74F552QC-ND	Octal Bidirectional Transceiver	28-PLCC	9.45	7.57	6.52
74F569SC-ND	4-Bit Binary Counter	20-SOIC	1.16	.97	.77
74F573SC-ND	Octal D-Type Latch	20-SOIC	.67	.51	.38
74F574SC-ND	Octal D-Type Flip Flop	20-SOIC	.67	.51	.38
74F579PC-ND	8-Bit Bidirectional Counter	20-Dip	2.15	1.72	1.29
74F620PC-ND	Inverting Octal Transceiver	20-Dip	.83	.66	.50
74F646BSPC-ND	Octal Bus Transceiver	24-Dip	2.15	1.72	1.29
74F657SPC-ND	Octal Transceiver with Parity	24-Dip	1.79	1.43	1.08
74F675APC-ND	16-Bit Serial In, Serial/Parallel-Out Shift Register	24-Dip	8.93	7.15	6.03
74F676PC-ND	16-Bit Serial/Parallel-In, Serial-Out Shift Register	24-Dip	4.41	3.53	2.75
74F779SC-ND	8-Bit Bidirectional Counter	16-SOIC	1.22	1.02	.82
74F823SC-ND	9-Bit D-Type Flip Flop	24-SOIC	1.24	.99	.75
74F2244PC-ND	Octal Buffer with 25Ω Series Resistor Outputs	20-Dip	.51	.43	.35

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

FAIRCHILD SEMICONDUCTOR

4000 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	Price Each★ 25	Price Each★ 100
CD4001BCM-ND	Quad 2-Input NOR Gate	14-SOIC	.51	.41	.31
CD4001BCN-ND	Quad 2-Input NOR Gate	14-Dip	.51	.41	.31
CD4007CN-ND	Dual Complementary Pair Plus Invert	14-Dip	.51	.41	.31
CD4011BCM-ND	Quad 2-Input NAND Gate	14-SOIC	.51	.41	.31
CD4011BCN-ND	Quad 2-Input NAND Gate	14-Dip	.51	.41	.31
CD4013BCM-ND	Dual D-Type Flip Flop	14-SOIC	.51	.41	.31
CD4013BCN-ND	Dual D-Type Flip Flop	14-Dip	.51	.41	.31
CD4015BCN-ND	Dual 4-Bit Shift Register	16-Dip	.65	.49	.37
CD4016BCM-ND	Quad Bilateral Switch	14-SOIC	.51	.41	.31
CD4016BCN-ND	Quad Bilateral Switch	14-Dip	.51	.41	.31
CD4017BCM-ND	Decade Counter/Divider	16-SOIC	.65	.49	.37
CD4017BCN-ND	Decade Counter/Divider	16-Dip	.65	.49	.37
CD4019BCN-ND	Quad AND/OR Select Gate	16-Dip	.53	.40	.30
CD4020BCM-ND	14-Bit Binary Counter	16-SOIC	.72	.54	.41
CD4020BCN-ND	14-Bit Binary Counter	16-Dip	.72	.54	.41
CD4023BCN-ND	Triple 3-Input NAND Gate	14-Dip	.51	.41	.31
CD4027BCN-ND	Dual JK M/S Flip Flop	16-Dip	.48	.36	.27
CD4028BCN-ND	BCD-to-Decimal Decoder	16-Dip	.48	.36	.27
CD4030CN-ND	Quad Exclusive OR Gate	14-Dip	.48	.36	.27
CD4040BCM-ND	12-Bit Binary Ripple Counter	16-SOIC	.65	.49	.37
CD4040BCN-ND	12-Bit Binary Ripple Counter	16-Dip	.65	.49	.37
CD4043BCN-ND	Quad NOR R/S Latch	16-Dip	.65	.49	.37
CD4046BCM-ND	Micropower Phase Lock Loop	16-SOIC	.72	.54	.41
CD4046BCN-ND	Micropower Phase Lock Loop	16-Dip	.72	.54	.41
CD4047BCN-ND	Monostable Multivibrator	14-Dip	.65	.49	.37
CD4049UBCM-ND	Hex Inverting Buffer	16-SOIC	.53	.40	.30
CD4050BCN-ND	Hex Buffer	16-Dip	.53	.40	.30
CD4051BCM-ND	8-Channel Analog Mux/Demux	16-SOIC	.62	.47	.36
CD4051BCN-ND	8-Channel Analog Mux/Demux	16-Dip	.62	.47	.36
CD4052BCM-ND	4-Channel Analog Mux/Demux	16-SOIC	.62	.47	.36
CD4052BCN-ND	4-Channel Analog Mux/Demux	16-Dip	.62	.47	.36
CD4053BCM-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.62	.47	.36
CD4053BCN-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.62	.47	.36
CD4060BCM-ND	14-Bit Binary Counter/Oscillator	16-SOIC	.65	.49	.37
CD4060BCN-ND	14-Bit Binary Counter/Oscillator	16-Dip	.65	.49	.37
CD4066BCM-ND	Quad Bilateral Switch	14-SOIC	.51	.41	.31
CD4066BCN-ND	Quad Bilateral Switch	14-Dip	.51	.41	.31
CD4069UBCM-ND	Inverter Circuits	14-SOIC	.51	.41	.31
CD4070BCN-ND	Quad Exclusive OR Gate (4070B)	14-Dip	.51	.41	.31
CD4071BCN-ND	Quad 2-Input OR Gate	14-Dip	.51	.41	.31
CD4081BCN-ND	Quad 2-Input AND Gate	14-Dip	.51	.41	.31
CD4093BCM-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.51	.41	.31
CD4093BCN-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.51	.41	.31
CD4094BCN-ND	8-Bit Shift Register with Latch	16-Dip	.62	.47	.36
CD4503BCN-ND	Tri-State Hex Buffer	16-Dip	.77	.58	.44
CD4511BCN-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-Dip	.77	.58	.44
CD4514BCN-ND	4-Bit Latch/4-to-16 Line Decoder	24-Dip	.99	.83	.66
CD4528BCN-ND	Dual Monostable Multivibrator	16-Dip	.77	.58	.44
CD4538BCN-ND	Dual Monostable Multivibrator	16-Dip	.77	.58	.44
CD4541BCN-ND	Programmable Timer	14-Dip	.62	.47	.36
CD4724BCN-ND	8-Bit Addressable Latch	16-Dip	.96	.72	.54
CD40106BCN-ND	Hex Schmitt Trigger	14-Dip	.53	.40	.30
CD40174BCN-ND	Hex D-Type Flip Flop	16-Dip	.65	.49	.37
CD40192BCN-ND	Up/Down Decade Counter	16-Dip	.90	.68	.51

FAIRCHILD SEMICONDUCTOR

LINEAR ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	Price Each★ 25	Price Each★ 100
FAN1086M-ND	Adjustable, 1.5A LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M5-ND	5V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M25-ND	2.5V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M33-ND	3.3V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M285-ND	2.85V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN2500SXCT-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	.81	.68	.54
FAN2500SXTR-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	1053.00/3,000		
FAN2500S25XCT-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	.81	.68	.54
FAN2500S25XTR-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	1053.00/3,000		
FAN2500S28XCT-ND	2.8V, 100mA, CMOS LDO Regulator	SOT-23-5	.81	.68	.54.54
FAN2500S28XTR-ND	2.8V, 100mA, CMOS LDO Regulator	SOT-23-5	1053.00/3,000		
FAN2500S30XCT-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	.81	.68	.54
FAN2500S30XTR-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	1053.00/3,000		
FAN2500S33XCT-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	.81	.68	.54
FAN2500S33XTR-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	1053.00/3,000		
LF353NFS-ND	4MHz Dual JFet Op Amp	8-Dip	.76	.57	.43
LM78L05ACZFS-ND	0 to 125°C, 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.45	.36	.27
LM78M05CTFS-ND	0 to 125°C, 3-Terminal 0.5A Positive Voltage Regulator	TO-220	.48	.36	.27
LM311MFS-ND	0-70°C Single Comparator	8-SOP	.48	.36	.27
LM311NFS-ND	0-70°C Single Comparator	8-Dip	.48	.36	.27
LM317TFS-ND	1.5A, 3-Terminal Positive Adjustable Regulator	TO-220	.68	.51	.39
LM337TFS-ND	1.5A, 3-Terminal Negative Adjustable Regulator	TO-220	.80	.60	.45
LM339ANFS-ND	0 to 70°C Quad Comparator	14-Dip	.55	.44	.33
LM339MFS-ND	0 to 70°C Quad Comparator	14-SOP	.55	.44	.33
LM339NFS-ND	0 to 70°C Quad Comparator	14-Dip	.55	.44	.33
LM350TFS-ND	3A, 3-Terminal Positive Adjustable Voltage	TO-220	1.35	1.13	.90
LM358AMFS-ND	0 to 70°C Dual Op Amp	8-SOIC	.55	.44	.33
LM358ANFS-ND	0 to 70°C Dual Op Amp	8-Dip	.55	.44	.33
LM358MFS-ND	0 to 70°C Dual Op Amp	8-SOIC	.55	.44	.33
LM358NFS-ND	0 to 70°C Dual Op Amp	8-Dip	.55	.44	.33
LM393AN-ND	0 to 70°C Dual Differential Comparator	8-Dip	.55	.44	.33
LM393MFS-ND	0 to 70°C Dual Differential Comparator	8-SOP	.55	.44	.33
LM393NFS-ND	0 to 70°C Dual Differential Comparator	8-Dip	.55	.44	.33
LM555CNFS-ND	0 to 70°C Single Timer	8-Dip	.50	.40	.30
LM1458NFS-ND	Dual Op Amp	8-Dip	.55	.44	.33
LM2901NFS-ND	Quad Comparator	14-Dip	.48	.36	.27
LM2903MFS-ND	Dual Differential Comparator	8-SOP	.48	.36	.27
LM2903NFS-ND	Dual Differential Comparator	8-Dip	.48	.36	.27
LM2904MFS-ND	Dual Op Amp	8-SOP	.48	.36	.27
LM2904NFS-ND	Dual Op Amp	8-Dip	.48	.36	.27
LM7805CT-ND	0 to 125°C, 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	.27
LM7905CTFS-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MC78L08ACPTR-ND	8V, 4% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.45	.36	.27
MC78M05CT-ND	5V, 4% 3-Terminal 0.5A Positive Voltage Regulator	TO-220	.48	.36	.27
MC7805CT-ND	5V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	.27
MC7808CT-ND	8V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	.27
MC7812CT-ND	12V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	.27
MC7815CT-ND	15V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	.27
MC7824CT-ND	24V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	.27
MC7905CT-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MC7912CT-ND	-12V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MC7915CT-ND	-15V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
RC1117DXCT-ND	1A, Adjustable LDO Linear Regulator	TO-252	1.17	.98	.78
RC1117DXTR-ND	1A, Adjustable LDO Linear Regulator	TO-252	1267.50/2,500		
RC1117M-ND	1A, Adjustable LDO Linear Regulator	TO-263	.96	.80	.64
RC1117M5-ND	5V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.80	.64
RC1117M33-ND	3.3V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.80	.64
RC1117M285-ND	2.85V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.80	.64
RC1117STCT-ND	1A, Adjustable LDO Linear Regulator	SOT-223	.90	.75	.60
RC1117STTR-ND	1A, Adjustable LDO Linear Regulator	SOT-223	975.00/2,500		
RC1117S33TCT-ND	3.3V, 1A, Fixed LDO Linear Regulator	SOT-223	.90	.75	.60
RC1117S33TTR-ND	3.3V, 1A, Fixed LDO Linear Regulator	SOT-223	975.00/2,500		
RC1117S285TCT-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	.90	.75	.60
RC1117S285TTR-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	975.00/2,500		
RC1584T-ND	7A, Adjustable LDO Linear Regulator	TO-220	1.47	1.23	.98
RC1585M-ND	5A, Adjustable LDO Linear Regulator	TO-263	1.47	1.23	.98
RC1585M15-ND	1.5V, 5A, Fixed LDO Linear Regulator	TO-263	1.47	1.23	.98
RC1585MTCT-ND	5A, Adjustable LDO Linear Regulator	TO-263	1.47	1.23	.98
RC1585MTTR-ND	5A, Adjustable LDO Linear Regulator	TO-263	548.80/800		
RC1585T-ND	5A, Adjustable LDO Linear Regulator	TO-220	1.38	1.15	.92
RC1585T15-ND	1.5V, 5A, Fixed LDO Linear Regulator	TO-220	1.38	1.15	.92
RC1587M-ND	3A, Adjustable LDO Linear Regulator	TO-263	1.38	1.15	.92
RC1587M15-ND	1.5V, 3A, Fixed LDO Linear Regulator	TO-263	1.38	1.15	.92
RC1587M33-ND	3.3V, 3A, Fixed LDO Linear Regulator	TO-263	1.38	1.15	.92
RC1587T-ND	3A, Adjustable LDO Linear Regulator	TO-220	1.32	1.10	.88
RC1587T15-ND	1.5V, 3A, Fixed LDO Linear Regulator	TO-220	1.32	1.10	.88
RC1587T33-ND	3.3V, 3A, Fixed LDO Linear Regulator	TO-220	1.32	1.10	.88
RC2951M-ND	0.1A Adjustable Micropower LDO Voltage Regulator	8-SOIC	1.75	1.40	1.05

FAIRCHILD SEMICONDUCTOR

SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	Price Each★ 25	Price Each★ 100
100324QC-ND	Low Power Hex TTL-to-ECL Translator	28-PLCC	6.27	5.02	4.24
100325QC-ND	Low Power Hex ECL-to-TTL Translator	28-PLCC	6.27	5.02	4.24

FAIRCHILD SEMICONDUCTOR

TinyLogic™

TinyLogic™ gives design engineers the ability to implement design changes or modify standard VLSI circuits without having to redesign complex silicon subcomponents or printed circuit board layouts. TinyLogic™ is primarily intended for use in space-constrained systems such as portable CD players, disk drives, cellular phones, pagers, radios, PCM-CIA cards and portable computers.

TinyLogic can facilitate efficient system designs in any application. Placement of single and dual gate logic functions exactly where needed simplifies signal routing while minimizing propagation delays and noise generation. Fairchild's TinyLogic™ family consists of a broad spectrum of high speed, low power, and CMOS single gate logic functions.

Products in the TinyLogic™, 7SZ parts (UHS Series) are the fastest logic devices on the market, operating in a Vcc voltage range of 1.8V to 5.5V.

In addition, with input overvoltage tolerance, the devices are capable of interfacing with 5V components while operating at 3V. 7S parts (HS Series devices) are intended for use with 5V applications, but will operate in a voltage range of 2V to 6V.

Series	Specified Power Supply	Compatibility Input V_{IL}/V_{IH}	Compatibility Output V_{OL}/V_{OH}	Drive I_{OL}/I_{OH}	Supply Current I_{CC}	Speed T_{PD}
7Sxx (HS)	2V - 6V	CMOS	TTL, CMOS	2.6mA/–2.6mA	10µA	21 ns
7SZxx (UHS)	1.8V - 5.5V	CMOS	TTL, CMOS	32mA/–32mA	20µA	4.5 ns

TinyLogic™ 7Sxx (HS Series)

Features	Benefits
CMOS (HS)	Compatible with HC
Low Quiescent Power: Icc < 1 µA @ 6V Vcc	Low power supply drain-beneficial for portables
High Noise immunity-Like HCMOS and VHC	Logic Level Integrity

TinyLogic™ 7SZxx (UHS Series)

Features	Benefits
Low Voltage 1.8V-5.5V operation; 5V tolerant inputs	Battery powered applications (optimized for 3.3V). Interfaces to both 3V & 5V Components
Propagation delay typical 4nS (3.3V)	New high speed designs. Seamless revisions to existing designs.

HS Series

Surface Mount Product in Cut Tape

Digi-Key Part No.	Description	Pkg.	Cut Tape Price Each★ 1	25	100
NC7S00M5CT-ND	Single 2-Input NAND Gate	SOT-23-5	.96	.80	.64
NC7S00P5CT-ND	2-Input NAND Gate	SC70-5	.96	.80	.64
NC7S02M5CT-ND	Single 2-Input NOR Gate	SOT-23-5	.96	.80	.64
NC7S04M5CT-ND	Single Inverter	SOT-23-5	.96	.80	.64
NC7S08M5CT-ND	Single 2-Input AND Gate	SOT-23-5	.96	.80	.64
NC7S14M5CT-ND	Schmitt Input Inverter	SOT-23-5	.96	.80	.64
NC7S32M5CT-ND	Single 2-Input OR Gate	SOT-23-5	.96	.80	.64
NC7S86M5CT-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.96	.80	.64

Surface Mount Product on Tape & Reel

Digi-Key Part No.	Description	Pkg.	Tape & Reel Pricing★ 250
NC7S00M5TR-ND	Single 2-Input NAND Gate	SOT-23-5	119.63
NC7S00P5TR-ND	2-Input NAND Gate	SC70-5	119.63
NC7S02M5TR-ND	Single 2-Input NOR Gate	SOT-23-5	119.63
NC7S04M5TR-ND	Single Inverter	SOT-23-5	119.63
NC7S08M5TR-ND	Single 2-Input AND Gate	SOT-23-5	119.63
NC7S14M5TR-ND	Schmitt Input Inverter	SOT-23-5	119.63
NC7S32M5TR-ND	Single 2-Input OR Gate	SOT-23-5	119.63
NC7S86M5TR-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	119.63

UHS Series

Surface Mount Product in Cut Tape

Digi-Key Part No.	Description	Pkg.	Cut Tape Price Each★ 1	25	100
NC7SZ00M5CT-ND	Single 2-Input NAND Gate	SOT-23-5	.96	.80	.64
NC7SZ00P5CT-ND	2-Input NAND Gate	SC70-5	.96	.80	.64
NC7SZ02M5CT-ND	Single 2-Input NOR Gate	SOT-23-5	.96	.80	.64
NC7SZ04M5CT-ND	Single Inverter	SOT-23-5	.96	.80	.64
NC7SZ05M5CT-ND	Single Inverter Open Drain	SOT-23-5	.96	.80	.64

(Continued)

FAIRCHILD SEMICONDUCTOR

TinyLogic™ *(Continued)*

Digi-Key Part No.	Description	Pkg.	Cut Tape Price Each★		
			1	25	100
NC7SZ08M5CT-ND	Single 2-Input AND Gate	SOT-23-5	.96	.80	.64
NC7SZ08P5CT-ND	2-Input AND Gate	SC70-5	.96	.80	.64
NC7SZ125M5CT-ND	Single Tri-State Buffer OE=Low	SOT-23-5	.96	.80	.64
NC7SZ125P5CT-ND	Tri-State Buffer	SC70-5	.96	.80	.64
NC7SZ126M5CT-ND	Single Tri-State Buffer OE=High	SOT-23-5	.96	.80	.64
NC7SZ126P5CT-ND	Tri-State Buffer	SC70-5	.96	.80	.64
NC7SZ14M5CT-ND	Schmitt Input Inverter	SOT-23-5	.96	.80	.64
NC7SZ32M5CT-ND	Single 2-Input OR Gate	SOT-23-5	.96	.80	.64
NC7SZ175P6CT-ND	D-Type Flip-Flop	SC70-6	.96	.80	.64
NC7SZ384M5CT-ND	Single Bus Switch	SOT-23-5	.99	.83	.66
NC7SZ38M5CT-ND	Single 2-Input NAND Gate (Open Drain Output)	SOT-23-5	.96	.80	.64
NC7SZ66M5CT-ND	Single Digital Switch	SOT-23-5	.90	.75	.60
NC7SZ86M5CT-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.96	.80	.64
NC7WZ16P6CT-ND	Dual Buffer	SC70-6	.96	.80	.64

Surface Mount Product on Tape & Reel

Digi-Key Part No.	Description	Pkg.	Tape & Reel Pricing★ 250
NC7SZ00M5TR-ND	Single 2-Input NAND Gate	SOT-23-5	119.63
NC7SZ00P5TR-ND	2-Input NAND Gate	SC70-5	119.63
NC7SZ02M5TR-ND	Single 2-Input NOR Gate	SOT-23-5	119.63
NC7SZ04M5TR-ND	Single Inverter	SOT-23-5	119.63
NC7SZ05M5TR-ND	Single Inverter Open Drain	SOT-23-5	119.63
NC7SZ08M5TR-ND	Single 2-Input AND Gate	SOT-23-5	119.63
NC7SZ08P5TR-ND	2-Input AND Gate	SC70-5	119.63
NC7SZ125M5TR-ND	Single Tri-State Buffer OE=Low	SOT-23-5	119.63
NC7SZ125P5TR-ND	Tri-State Buffer	SC70-5	119.63
NC7SZ126M5TR-ND	Single Tri-State Buffer OE=High	SOT-23-5	119.63
NC7SZ126P5TR-ND	Tri-State Buffer	SC70-5	119.63
NC7SZ14M5TR-ND	Schmitt Input Inverter	SOT-23-5	119.63
NC7SZ32M5TR-ND	Single 2-Input OR Gate	SOT-23-5	119.63
NC7SZ175P6TR-ND	D-Type Flip-Flop	SC70-6	119.63
NC7SZ384M5TR-ND	Single Bus Switch	SOT-23-5	123.75
NC7SZ38M5TR-ND	Single 2-Input NAND Gate (Open Drain Output)	SOT-23-5	119.63
NC7SZ66M5TR-ND	Single Digital Switch	SOT-23-5	112.50
NC7SZ86M5TR-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	119.63
NC7WZ16P6TR-ND	Dual Buffer	SC70-6	119.63

FAIRCHILD SEMICONDUCTOR

OP AMPS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
KM4170IS5TR3CT-ND	5.3V, 16mA, Rail-to-Rail, In/Out Op Amp	SC70-5	1.08	.90	.72
KM4170IS5TR3TR-ND	5.3V, 16mA, Rail-to-Rail, In/Out Op Amp	SC70-5	1404.00/3,000		
LF347NFS-ND	4MHz, High Speed Quad JFet Op Amp	14-Dip	.76	.57	.43
LM324AMFS-ND	0 to 70°C Quad Op Amp	14-SOP	.55	.44	.33
LM324ANFS-ND	0 to 70°C Quad Op Amp	14-Dip	.55	.44	.33
LM324MFS-ND	0 to 70°C Quad Op Amp	14-SOP	.55	.44	.33
LM324NFS-ND	0 to 70°C Quad Op Amp	14-Dip	.55	.44	.33
LM348NFS-ND	0 to 70°C Quad Op Amp	14-Dip	.56	.42	.32
LM741CNFS-ND	0 to 70°C Single Op Amp	8-Dip	.60	.45	.34
LM2902NFS-ND	-40 to 85°C Quad Op Amp	14-Dip	.48	.36	.27
MMPQ2907ACT-ND	General Purpose Multichip PNP Op Amp	16-SOIC	1.56	1.25	.94
MMPQ2907ATR-ND	General Purpose Multichip PNP Op Amp	16-SOIC	1996.80/2,500		

PERICOM® Semiconductor Corporation

SOTiny™

Surface Mount Product in Cut Tape

Digi-Key Part No.	Description	Pkg.	Cut Tape Price Each★		
			1	25	100
PI74STX1G00CXCT-ND	Single 2-Input NAND Gate	SC70-5	.38	.29	.23
PI74STX1G02CXCT-ND	Single 2-Input NOR Gate	SC70-5	.38	.29	.23
PI74STX1G04CXCT-ND	Single Inverter	SC70-5	.38	.29	.23
PI74STX1G08CXCT-ND	Single 2-Input AND Gate	SC70-5	.38	.29	.23
PI74STX1G125CXCT-ND	Buffer with Tri-State Output	SC70-5	.54	.41	.32
PI74STX1G126CXCT-ND	Buffer with Tri-State Output	SC70-5	.54	.41	.32
PI74STX1G14CXCT-ND	Schmitt-Trigger Inverter	SC70-5	.38	.29	.23
PI74STX1G32CXCT-ND	Single 2-Input OR Gate	SC70-5	.38	.29	.23
PI74STX1G79CXCT-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.38	.29	.23
PI74STX1G86CXCT-ND	Single 2-Input XOR Gate	SC70-5	.38	.29	.23

Surface Mount Product on Tape & Reel

Digi-Key Part No.	Description	Pkg.	Tape & Reel Pricing★ 3,000
PI74STX1G00CXTR-ND	Single 2-Input NAND Gate	SC70-5	169.00/M
PI74STX1G02CXTR-ND	Single 2-Input NOR Gate	SC70-5	169.00/M
PI74STX1G04CXTR-ND	Single Inverter	SC70-5	169.00/M
PI74STX1G08CXTR-ND	Single 2-Input AND Gate	SC70-5	169.00/M
PI74STX1G125CXTR-ND	Buffer with Tri-State Output	SC70-5	239.00/M
PI74STX1G126CXTR-ND	Buffer with Tri-State Output	SC70-5	239.00/M
PI74STX1G14CXTR-ND	Schmitt-Trigger Inverter	SC70-5	169.00/M
PI74STX1G32CXTR-ND	Single 2-Input OR Gate	SC70-5	169.00/M
PI74STX1G79CXTR-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	169.00/M
PI74STX1G86CXTR-ND	Single 2-Input XOR Gate	SC70-5	169.00/M

PERICOM® Semiconductor Corporation

74ALVCH LOGIC (ADVANCED LOW VOLTAGE CMOS w/HOLD)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74ALVCH16244A-ND	16-Bit Buffer/Line Driver	48-TSSOP	2.40	1.92	1.60
PI74ALVCH16245A-ND	16-Bit Bidirectional Bus Transceiver	48-TSSOP	2.40	1.92	1.60
PI74ALVCH16374A-ND	16-Bit Edge Triggered D-Type Flip-Flop	48-TSSOP	2.40	1.92	1.60
PI74ALVCH16823A-ND	18-Bit Bus Interface Flip-Flop	56-TSSOP	2.38	1.91	1.59

PERICOM® Semiconductor Corporation

DOUBLE DENSITY 2.5 VOLT ALVTC LOGIC WITH TOLERANT I/O AND BUS HOLD

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74ALVTC16241A-ND	Tri-State, 16-Bit Buffer/Driver	48-TSSOP	2.90	2.28	1.82
PI74ALVTC16244A-ND	16-Bit Buffer/Line Driver	48-TSSOP	2.90	2.28	1.82
PI74ALVTC16244K-ND	Tri-State, 16-Bit Buffer/Driver	48-TVSOP	3.24	2.55	2.03
PI74ALVTC16245A-ND	16-Bit Bidirectional Transceiver	48-TSSOP	2.90	2.28	1.82

PERICOM® Semiconductor Corporation

DOUBLE DENSITY VCX LOGIC WITH TOLERANT I/O AND BUS HOLD

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74VCX16244A-ND	16-Bit Buffer/Line Driver	48-TSSOP	3.34	2.63	2.09
PI74VCX16245A-ND	16-Bit Bidirectional Transceiver	48-TSSOP	3.34	2.63	2.09
PI74VCX16374A-ND	16-Bit D-Type Flip-Flop	48-TSSOP	3.34	2.63	2.09

PERICOM® Semiconductor Corporation

LAN / ANALOG SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI5A100W-ND	Quad SPDT Analog Switch	16-SOIC	2.16	1.86	1.67
PI5A126W-ND	Dual SPST, 7 Volt N.O. Analog Switch	8-SOIC	.98	.89	.80
PI5A319AP-ND	Single SPDT Analog Switch	8-Dip	1.22	1.06	.95
PI5A319AW-ND	Single SPDT Analog Switch	8-SOIC	1.22	1.06	.95
PI5A391AP-ND	Quad SPST Analog Switch	16-Dip	1.85	1.59	1.43
PI5L200Q-ND	Quad SPDT LAN Switch	16-QSOP	2.32	1.81	1.48
PI5V330W-ND	Quad 2/1 Multiplexer/Demultiplexer	16-SOIC	2.24	1.92	1.76
PS301CSA-ND	SPST, 17 Volt Analog Switch	8-SOIC	1.19	1.02	.92
PS302CSA-ND	SPST, 17 Volt Analog Switch	8-SOIC	1.01	.87	.79
PS320ESA-ND	Dual SPST, 17 Volt N.O. Analog Switch	8-SOIC	1.01	.87	.79
PS323ESA-ND	Dual SPST, 17 Volt N.O. Analog Switch	8-SOIC	1.01	.87	.79
PS383ESE-ND	Dual SPDT, 17 Volt Analog Switch	16-SOIC	2.83	2.43	2.18
PS391EPE-ND	Quad SPST, 17 Volt N.C. Analog Switch	16-Dip	2.11	1.81	1.63
PS391ESE-ND	Quad SPST, 17 Volt N.C. Analog Switch	16-SOIC	2.11	1.81	1.63
PS392CSE-ND	Quad SPST, 17 Volt N.O. Analog Switch	16-SOIC	2.07	1.79	1.60
PS392EPE-ND	Quad SPST, 17 Volt N.O. Analog Switch	16-Dip	2.11	1.81	1.63
PS392ESE-ND	Quad SPST, 17 Volt N.O. Analog Switch	16-SOIC	2.11	1.81	1.63
PS393ESE-ND	Quad SPST, 17 Volt (2)N.O., (2)N.C. Analog Switch	16-SOIC	2.11	1.81	1.63

PERICOM® Semiconductor Corporation

LVDS DATA TRANSMISSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI90LV022L-ND	LVDS 2x2 Mux/Repeater	16-TSSOP	4.90	4.20	3.75
PI90LV027AW-ND	Dual LVDS Line Driver	8-SOIC	2.24	1.92	1.72
PI90LV028AW-ND	Dual LVDS Line Receiver	8-SOIC	2.24	1.92	1.72
PI90LV031AW-ND	Quad LVDS Line Driver	16-SOIC	3.73	3.20	2.86
PI90LV032AW-ND	Quad LVDS Line Receiver	16-SOIC	3.73	3.20	2.86
PI90LV047AL-ND	3V, Quad LVDS Differential Line Driver	16-TSSOP	2.74	2.50	2.28
PI90LV048AL-ND	3V, Quad LVDS Differential Line Receiver	16-TSSOP	2.74	2.50	2.28
PI90LV050L-ND	Dual LVDS Driver/Receiver	16-TSSOP	2.98	2.55	2.28
PI90LV051L-ND	Dual LVDS Transceiver (Single EN)	16-TSSOP	2.98	2.55	2.28
PI90LV179W-ND	Single LVDS Transceiver	8-SOIC	2.61	2.24	2.01
PI90LV180W-ND	Single LVDS Transceiver (EN)	14-SOIC	3.15	2.70	2.41
PI90LVB022L-ND	LVDS 2x2 Mux/Repeater	16-TSSOP	6.65	5.70	5.09
PI90LVB050L-ND	Dual Hi-Drive LVDS Transceiver (EN)	16-TSSOP	3.50	3.00	2.68
PI90LVB051L-ND	Dual Hi-Drive LVDS Transceiver (EN)	16-TSSOP	3.03	2.60	2.32
PI90LVB16L-ND	Bus LVDS 1/6 Clock Buffer	24-TSSOP	7.00	6.00	4.44
PI90LVB179W-ND	Single Hi-Drive LVDS Transceiver	8-SOIC	1.94	1.67	1.49
PI90LVB180W-ND	Single Hi-Drive LVDS Transceiver (EN)	14-SOIC	2.45	2.10	1.88

PERICOM® Semiconductor Corporation

74AVC 2.5VOLT BUS DRIVERS AND FLIP-FLOPS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74AVC+16244A-ND	Tri-State, 16-Bit Buffer/Driver	48-TSSOP	2.74	2.50	2.28
PI74AVC+16244K-ND	Tri-State, 16-Bit Buffer/Driver	48-TVSOP	3.24	2.96	2.70
PI74AVC+16245A-ND	Tri-State, 16-Bit Bidirectional Transceiver	48-TSSOP	2.74	2.50	2.28
PI74AVC+16245K-ND	Tri-State, 16-Bit Bidirectional Transceiver	48-TVSOP	3.24	2.96	2.70
PI74AVC+16268A-ND	Tri-State, 12-Bit to 24-Bit Registered Bus Exchanger	56-TSSOP	2.74	2.50	2.28
PI74AVC+16345A-ND	Tri-State, 1-Bit to 4-Bit Registered Address Driver	56-TSSOP	3.77	3.44	3.14
PI74AVC+16374A-ND	Tri-State, 16-Bit D-Type Flip-Flop	48-TSSOP	2.74	2.50	2.28
PI74AVC+16646A-ND	Tri-State, 16-Bit Bus Transceiver and Register	56-TSSOP	3.04	2.78	2.54
PI74AVC+16721A-ND	Tri-State, 20-Bit Flip-Flop	56-TSSOP	2.74	2.50	2.28
PI74AVC+16820A-ND	Tri-State, 10-Bit Flip-Flop with Dual Outputs	56-TSSOP	2.74	2.50	2.28
PI74AVC+16836A-ND	Tri-State, 20-Bit Universal Bus Driver	56-TSSOP	2.38	2.18	1.99
PI74AVC164245A-ND	Tri-State, 3.3V to 1.8V, 16-Bit Level Shifter	48-TSSOP	3.29	3.00	2.74
PI74AVC164245LAA-ND	Tri-State, 3.3V to 1.5V, 16-Bit Level Shifter	48-TSSOP	3.90	3.56	3.25
PI74AVC16834A-ND	Tri-State, 18-Bit Universal Bus Driver	56-TSSOP	2.98	2.39	1.99
PI74AVC16835A-ND	Tri-State, 18-Bit Universal Bus Driver	56-TSSOP	2.98	2.39	1.99

PERICOM® Semiconductor Corporation

FCT LOGIC STANDARD 5 VOLT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74FCT132ATW-ND	Quad 2-Input NAND Schmitt	14-SOIC	1.63	1.54	1.49
PI74FCT240ATS-ND	Inverting Octal Buffer/Line Driver	20-SOIC	.74	.68	.62
PI74FCT244ATQ-ND	Octal Buffer/Line Driver	20-QSOP	.74	.68	.62
PI74FCT244ATS-ND	Octal Buffer/Line Driver	20-SOIC	.74	.68	.62
PI74FCT245ATQ-ND	Octal Bidirectional Transceiver	20-QSOP	.74	.68	.62
PI74FCT245ATS-ND	Octal Bidirectional Transceiver	20-SOIC	.74	.68	.62
PI74FCT253ATQ-ND	Dual 4-Input Multiplexer	16-QSOP	1.16	1.07	.97
PI74FCT273ATQ-ND	Octal D-Type Flip-Flop with Reset	20-QSOP	.74	.68	.62
PI74FCT273ATS-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.74	.68	.62
PI74FCT374ATS-ND	Octal D-Type Register, Tri-State	20-SOIC	.74	.68	.62
PI74FCT377ATS-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOIC	1.26	1.15	1.05
PI74FCT541ATQ-ND	Non-Invert Octal Buffer/Line Driver	20-QSOP	.94	.86	.79
PI74FCT541ATS-ND	Non-Invert Octal Buffer/Line Driver	20-SOIC	.94	.86	.79
PI74FCT543ATS-ND	Non-Invert Octal Latched Transceiver	24-SOIC	1.23	1.13	1.02
PI74FCT574ATQ-ND	Octal D-Type Register, Tri-State	20-QSOP	.74	.68	.62
PI74FCT574ATS-ND	Octal D-Type Register, Tri-State	20-SOIC	.74	.68	.62
PI74FCT652ATS-ND	Inverting Octal Registered Transceiver	24-SOIC	1.23	1.13	1.02
PI74FCT823ATS-ND	9-Bit Register with Clear and Tri-State	24-SOIC	.98	.89	.81

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

PERICOM 74FCT – STANDARD 5 VOLT FCT WITH 25 OHM SERIES OUTPUT RESISTOR

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74FCT2241ATQ-ND	Inverting Octal Buffer/Line Driver	20-QSOP	.74	.68	.62
PI74FCT2244ATQ-ND	Octal Buffer/Line Driver	20-QSOP	.74	.68	.62
PI74FCT2245ATQ-ND	Octal Bidirectional Transceiver	20-QSOP	.74	.68	.62
PI74FCT2273ATQ-ND	Octal D-Type Flip-Flop	20-QSOP	.74	.68	.62
PI74FCT2374ATQ-ND	Octal D-Type Register	20-QSOP	.74	.68	.62
PI74FCT2541ATQ-ND	Non-Invert Octal Latched Transceiver	20-QSOP	.94	.86	.79
PI74FCT2573ATQ-ND	Octal Transparent Latch	20-QSOP	.74	.68	.62
PI74FCT2827ATQ-ND	10-Bit Buffer	24-QSOP	.98	.89	.81

PERICOM 74FCT – DOUBLE DENSITY STANDARD 5 VOLT FCT LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74FCT16240ATV-ND	16-Bit Buffer/Line Driver	48-SSOP	1.44	1.31	1.19
PI74FCT16245ATA-ND	16-Bit Bidirectional Transceiver	48-TSSOP	1.44	1.31	1.19
PI74FCT16245ATV-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.44	1.31	1.19
PI74FCT16373ATA-ND	16-Bit Transparent Latch	48-TSSOP	1.44	1.31	1.19
PI74FCT16373ATV-ND	16-Bit Transparent Latch	48-SSOP	1.44	1.31	1.19
PI74FCT16374ATA-ND	16-Bit Register	48-TSSOP	1.44	1.31	1.19
PI74FCT16374ATV-ND	16-Bit Register	48-SSOP	1.44	1.31	1.19

PERICOM 74FCT – DOUBLE DENSITY 3.3 VOLT FCT LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74FCT163244AA-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.44	1.31	1.19
PI74FCT163244AV-ND	16-Bit Buffer/Line Driver	48-SSOP	1.44	1.31	1.19

PERICOM 74FCT – DOUBLE DENSITY STANDARD 5V LOGIC WITH BALANCED OUTPUT DRIVE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74FCT162244ATA-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.44	1.31	1.19
PI74FCT162244ATV-ND	16-Bit Buffer/Line Driver	48-SSOP	1.44	1.31	1.19
PI74FCT162245ATA-ND	16-Bit Bidirectional Transceiver	48-TSSOP	1.44	1.31	1.19
PI74FCT162245ATV-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.44	1.31	1.19
PI74FCT162374ATA-ND	16-Bit Register	48-TSSOP	1.44	1.31	1.19
PI74FCT162374ATV-ND	16-Bit Register	48-SSOP	1.44	1.31	1.19
PI74FCT162541ATV-ND	16-Bit Buffer/Line Driver	48-SSOP	1.86	1.69	1.54
PI74FCT162823ATA-ND	18-Bit Register	56-TSSOP	1.71	1.57	1.42
PI74FCT162827ATA-ND	20-Bit Buffer	56-TSSOP	1.71	1.57	1.42

PERICOM 74LPT – STANDARD 3.3 VOLT LOGIC WITH 5 VOLT TOLERANT I/O

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74LPT244AQ-ND	Octal Buffer/Line Driver	20-QSOP	.78	.73	.71
PI74LPT244AS-ND	Octal Buffer/Line Driver	20-SOIC	.78	.73	.71
PI74LPT245AQ-ND	Octal Bidirectional Transceiver	20-QSOP	.78	.73	.71
PI74LPT245AS-ND	Octal Bidirectional Transceiver	20-SOIC	.78	.73	.71
PI74LPT541AQ-ND	Non-Inverting Octal Buffer/Line Driver	20-QSOP	.78	.73	.71
PI74LPT541AS-ND	Non-Inverting Octal Buffer/Line Driver	20-SOIC	.78	.73	.71
PI74LPT573AQ-ND	Octal Transparent Latch with Tri-State	20-QSOP	.78	.73	.71

PERICOM 74LPT – DOUBLE DENSITY 3.3 VOLT LOGIC WITH 5 VOLT TOLERANT I/O

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74LPT16244AA-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.18	1.11	1.08
PI74LPT16244AV-ND	16-Bit Buffer/Line Driver	48-SSOP	1.18	1.11	1.08
PI74LPT16245AA-ND	16-Bit Bidirectional Transceiver	48-TSSOP	1.18	1.11	1.08
PI74LPT16245AV-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.18	1.11	1.08
PI74LPT16374AA-ND	16-Bit Octal Register	48-TSSOP	1.18	1.11	1.08
PI74LPT16827AA-ND	20-Bit Buffer	56-TSSOP	1.85	1.69	1.55

PERICOM 3.3 VOLT BUS SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3B16211A-ND	24-Bit Bus Switch	56-TSSOP	2.40	2.19	2.01
PI3B16212A-ND	24-Bit Bus Exchange	56-TSSOP	2.40	2.19	2.01
PI3B16233A-ND	16-32-Bit FET Mux/Demux Bus Switch	56-TSSOP	2.40	2.19	2.01
PI3B16245A-ND	Hot Insertion, 16-Bit, 2-Port Bus Switch	48-BQSOP	2.40	2.19	2.01
PI3B3251Q-ND	8-1 Mux/Demux Hot Insertion Bus Switch	16-QSOP	1.18	1.04	.96
PI3B3257Q-ND	Quad 2-1 Mux/Demux Hot Insertion Bus Switch	16-QSOP	1.18	1.04	.96
PI3B33X257B-ND	12-24 Multiplexer/Demultiplexer Bus Switch	48-BQSOP	3.33	3.04	2.77
PI3C3125Q-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables	16-QSOP	1.09	.85	.70
PI3C3126Q-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables	16-QSOP	1.09	.85	.70
PI3C3245Q-ND	Hot Insertion, 8-Bit, 2-Port Bus Switch	20-QSOP	1.16	.91	.74
PI3C3384Q-ND	3.3V High Bandwidth, Hot Insertion, 10-Bit, 2-Port Bus Switch	24-QSOP	1.16	.91	.74
PI3C3861Q-ND	3.3V High Bandwidth, Hot Insertion, 10-Bit, 2-Port Bus Switch	24-QSOP	1.16	.91	.74
PI3C16210A-ND	3.3V, High Bandwidth Bus Switch	48-TSSOP	2.89	2.48	1.83
PI3C16211A-ND	3.3V, High Bandwidth Bus Switch	56-TSSOP	2.89	2.48	1.83
PI3C16212A-ND	3.3V, High Bandwidth Bus Switch	56-TSSOP	2.89	2.48	1.83
PI3C16215A-ND	3.3V, 2-Port, 20-Bit Bus Switch	48-TSSOP	2.89	2.48	1.83
PI3C34X461NB-ND	3.3V, 40-Bit Bus Switch (861 function)	96-LFBGA	3.82	3.27	2.42
PI3C34X484NB-ND	3.3V, 40-Bit Bus Switch (384 function)	96-LFBGA	3.82	3.27	2.42

PERICOM LOW VOLTAGE TRANSLATOR BUS SWITCH

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3VT32X245B-ND	16-Bit, Low Voltage Level Shifting Switch	40-BQSOP	1.85	1.69	1.55
PI3VT34X245B-ND	32-Bit, Low Voltage Level Shifting Switch	80-BQSOP	3.43	3.14	2.86
PI3VT3245L-ND	8-Bit, Low Voltage Level Shifting Switch	20-TSSOP	1.07	.98	.90
PI3VT3306L-ND	2-Bit, 2-Port, Low Voltage Translator Bus Switch	8-TSSOP	1.16	.99	.88
PI3VT3384L-ND	10-Bit, 2-Port, Low Voltage Translator Bus Switch	24-TSSOP	1.51	1.29	1.15
PI3VT3861L-ND	10-Bit, 2-Port, Low Voltage Translator Bus Switch	24-TSSOP	1.51	1.29	1.15

PERICOM 5 VOLT BUS SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI5C32X245B-ND	16-Bit Bus Switch	40-BQSOP	2.02	1.58	1.30
PI5C34X245B-ND	32-Bit Bus Switch	80-BQSOP	2.59	2.35	2.13
PI5C34X383B-ND	32-Bit, 2-Port Bus Switch	80-BQSOP	2.59	2.35	2.13
PI5C3125Q-ND	Quad Bus Switch with Individual Enable	16-QSOP	.71	.63	.58
PI5C3244S-ND	8-Bit, 2-Port Bus Switch (FCT244 Pinout)	20-SOIC	.72	.64	.59
PI5C3245Q-ND	8-Bit, 2-Port Bus Switch (FCT245 Pinout)	20-QSOP	.72	.64	.59
PI5C3245S-ND	8-Bit, 2-Port Bus Switch (FCT245 Pinout)	20-SOIC	.72	.64	.59
PI5C3251Q-ND	8:1 Mux/Demux Bus Switch	16-QSOP	.72	.64	.59
PI5C3253Q-ND	Dual 4:1 Mux/Demux Bus Switch	16-QSOP	.72	.66	.60
PI5C3257Q-ND	Quad 2:1 Mux/Demux Bus Switch	16-QSOP	.72	.66	.60
PI5C3257S-ND	Quad 2:1 Mux/Demux Bus Switch	16-SOIC	.72	.66	.60
PI5C3383Q-ND	5-Bit, 4-Port Swabble Bus Switch	24-QSOP	.72	.66	.60
PI5C3384Q-ND	10-Bit, 2-Port Bus Switch	24-QSOP	.72	.66	.60
PI5C3861Q-ND	10-Bit, 2-Port Bus Switch	24-QSOP	.73	.57	.51
PI5C16211A-ND	24-Bit, Bus Switch	56-TSSOP	1.98	1.79	1.62
PI5C16212V-ND	25-Bit, Bus Switch	56-SSOP	1.98	1.79	1.62
PI5C16861CA-ND	20-Bit, Flow Through Pinout Bus Switch with Undershoot Protection	48-TSSOP	2.03	1.84	1.67
PI5C16862CA-ND	5V, 20-Bit Bus Switch	48-TSSOP	2.15	1.85	1.65
PI5C32861Q-ND	10-Bit, 2-Port Bus Switch	24-QSOP	.72	.57	.51

PERICOM VIDEO SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI5V330Q-ND	Quad 2-1 Multiplexer Video Switch	16-QSOP	2.12	1.92	1.74
PI5V331Q-ND	Dual 4-Channel Video Multiplexer/Demultiplexer	16-QSOP	2.12	1.92	1.74
PI5V332Q-ND	Quad Video Switch	16-QSOP	2.12	1.92	1.74

PERICOM CLOCK DISTRIBUTION PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI49FCT804ATS-ND	Non-Inverting Clock Driver	16-SOIC	3.92	3.57	3.13
PI49FCT805ATQ-ND	Non-Inverting Clock Driver	20-QSOP	2.99	2.73	2.39
PI49FCT805ATS-ND	Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT807ATS-ND	10-Output Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT3803L-ND	156MHz, 7-Output Non-Inverting Clock Driver	16-TSSOP	1.49	1.36	1.25
PI49FCT3803Q-ND	156MHz, 7-Output Non-Inverting Clock Driver	16-QSOP	1.49	1.36	1.25
PI49FCT3805AQ-ND	Non-Inverting Clock Driver	20-QSOP	2.99	2.73	2.39
PI49FCT3805AS-ND	Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT3807AQ-ND	10-Output Non-Inverting Clock Driver	20-QSOP	2.99	2.73	2.39
PI49FCT3807AS-ND	10-Output Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT3807DQ-ND	156MHz, 10-Output Non-Inverting Clock Driver	20-QSOP	5.41	4.95	4.51
PI49FCT3807DS-ND	156MHz, 10-Output Non-Inverting Clock Driver	20-SOIC	5.41	4.95	4.51
9269B-ND	Data Book on CD-ROM		9.90	—	—

TOSHIBA 74AC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74AC00FN-ND	Quad 2-Input NAND Gate	14-SOL	.40	.30	.23
TC74AC00FNTR-ND	Quad 2-Input NAND Gate	14-SOL	325.00/2,500		
TC74AC00P-ND	Quad 2-Input NAND Gate	14-Dip	.40	.30	.23
TC74AC02FNTR-ND	Quad 2-Input NOR Gate	14-SOL	325.00/2,500		
TC74AC02P-ND	Quad 2-Input NOR Gate	14-Dip	.40	.30	.23
TC74AC04FN-ND	Hex Inverter	14-SOL	.52	.42	.31
TC74AC04FNTR-ND	Hex Inverter	14-SOL	325.00/2,500		
TC74AC08FN-ND	Quad 2-Input AND Gate	14-SOL	.52	.42	.31
TC74AC08FNTR-ND	Quad 2-Input AND Gate	14-SOL	325.00/2,500		
TC74AC14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.48	.36	.27
TC74AC32FN-ND	Quad 2-Input OR Gate	14-SOL	.48	.38	.29
TC74AC32FNTR-ND	Quad 2-Input OR Gate	14-SOL	325.00/2,500		
TC74AC74FN-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	.48	.39	.29
TC74AC74FNTR-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	367.88/2,500		
TC74AC74P-ND	Dual D-Type Flip Flop with Preset and Clear	14-Dip	.68	.51	.39
TC74AC86FN-ND	Quad Exclusive OR Gate	14-SOL	.44	.33	.25
TC74AC125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.64	.48	.36
TC74AC125FNTR-ND	Quad Bus Buffer, Tri-State	14-SOL	520.00/2,500		
TC74AC138FN-ND	3-to-8 Line Decoder	16-SOL	.60	.45	.34
TC74AC138FNTR-ND	3-to-8 Line Decoder	16-SOL	461.50/2,500		
TC74AC138P-ND	3-to-8 Line Decoder	16-Dip	.60	.45	.34
TC74AC157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.62	.47	.36
TC74AC244P-ND	Octal Bus Buffer, Tri-State	20-Dip	.57	.48	.38
TC74AC245FWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL	252.70/1,000		
TC74AC245P-ND	Octal Bus Transceiver, Tri-State	20-Dip	.57	.48	.38
TC74AC373P-ND	Octal D-Type Latch, Tri-State	20-Dip	.87	.73	.58
TC74AC573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.93	.78	.62

TOSHIBA 74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74ACT00FN-ND	Quad 2-Input NAND Gate	14-SOL	.44	.33	.25
TC74ACT00FNTR-ND	Quad 2-Input NAND Gate	14-SOL	357.50/2,500		
TC74ACT00P-ND	Quad 2-Input NAND Gate	14-Dip	.44	.33	.25
TC74ACT02FN-ND	Quad 2-Input NOR Gate	14-SOL	.50	.40	.30
TC74ACT02FNTR-ND	Quad 2-Input NOR Gate	14-SOL	337.50/2,500		

(Continued)

TOSHIBA 74ACT SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74ACT04FN-ND	Hex Inverter	14-SOL	.58	.47	.35
TC74ACT04FNTR-ND	Hex Inverter	14-SOL	357.50/2,500		
TC74ACT08FN-ND	Quad 2-Input AND Gate	14-SOL	.40	.30	.23
TC74ACT14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.48	.36	.27
TC74ACT14FNTR-ND	Hex Schmitt Trigger Inverter	14-SOL	390.00/2,500		
TC74ACT32FN-ND	Quad 2-Input OR Gate	14-SOL	.53	.43	.32
TC74ACT32FNTR-ND	Quad 2-Input OR Gate	14-SOL	357.75/2,500		
TC74ACT74FN-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	.44	.33	.25
TC74ACT74FNTR-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	357.50/2500		
TC74ACT138FN-ND	3-to-8 Line Decoder	16-SOL	.60	.45	.34
TC74ACT138FNTR-ND	3-to-8 Line Decoder	16-SOL	487.50/2,500		
TC74ACT138P-ND	3-to-8 Line Decoder	16-Dip	.60	.45	.34
TC74ACT139FN-ND	Dual 2-to-4 Line Decoder	16-SOL	.64	.49	.37
TC74ACT157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.73	.55	.42
TC74ACT244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.57	.48	.38
TC74ACT244FWTR-ND	Octal Bus Buffer, Tri-State	20-SOL	252.70/1,000		
TC74ACT244P-ND	Octal Bus Buffer, Tri-State	20-Dip	.57	.48	.38
TC74ACT245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.57	.48	.38
TC74ACT245P-ND	Octal Bus Transceiver, Tri-State	20-Dip	.57	.48	.38
TC74ACT257FN-ND	Quad 2-Channel Multiplexer	16-SOL	.78	.59	.44
TC74ACT257FNTR-ND	Quad 2-Channel Multiplexer	16-SOL	630.50/2,500		
TC74ACT273FW-ND	Octal D-Type Flip Flop with Clear	20-SOL	.87	.73	.58
TC74ACT373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.57	.48	.38
TC74ACT374FW-ND	Octal D-Type Flip Flop	20-SOL	.57	.48	.38
TC74ACT541FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.75	.63	.50
TC74ACT541P-ND	Octal Bus Buffer, Tri-State	20-Dip	1.45	1.16	.87
TC74ACT573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.60	.50	.40
TC74ACT574FW-ND	Octal D-Type Flip Flop, Tri-State	20-SOL	.63	.53	.42

TOSHIBA 74HC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74HC00AFN-ND	Quad 2-Input NAND Gate	14-SOL	.40	.32	.24
TC74HC00AFNTR-ND	Quad 2-Input NAND Gate	14-SOL	239.63/2,500		
TC74HC00AP-ND	Quad 2-Input NAND Gate	14-Dip	.40	.32	.24
TC74HC02AFN-ND	Quad 2-Input NOR Gate	14-SOL	.40	.32	.24
TC74HC02AFNTR-ND	Quad 2-Input NOR Gate	14-SOL	270.00/2,500		
TC74HC02AP-ND	Quad 2-Input NOR Gate	14-Dip	.40	.32	.24
TC74HC03AP-ND	Quad 2-Input NAND Gate with Open Drain	14-Dip	.60	.48	.36
TC74HC04AFN-ND	Hex Inverter	14-SOL	.40	.32	.24
TC74HC04AFNTR-ND	Hex Inverter	14-SOL	270.00/2,500		
TC74HC04AP-ND	Hex Inverter	14-Dip	.40	.32	.24
TC74HC05AP-ND	Hex Inverter with Open Drain	14-Dip	.64	.48	.36
TC74HC08AFN-ND	Quad 2-Input AND Gate	14-SOL	.40	.32	.24
TC74HC08AFNTR-ND	Quad 2-Input AND Gate	14-SOL	239.63/2,500		
TC74HC08AP-ND	Quad 2-Input AND Gate	14-Dip	.40	.32	.24
TC74HC10AP-ND	Triple 3-Input NAND Gate	14-Dip	.56	.45	.34
TC74HC14AFN-ND	Hex Schmitt Trigger Inverter	14-SOL	.40	.32	.24
TC74HC14AFNTR-ND	Hex Schmitt Trigger Inverter	14-SOL	270.00/2,500		
TC74HC14AP-ND	Hex Schmitt Trigger Inverter	14-Dip	.39	.32	.24
TC74HC32AFN-ND	Quad 2-Input OR Gate	14-SOL	.40	.32	.24
TC74HC32AFNTR-ND	Quad 2-Input OR Gate	14-SOL	270.00/2,500		
TC74HC32AP-ND	Quad 2-Input OR Gate	14-Dip	.40	.32	.24
TC74HC74AFN-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	.40	.32	.24
TC74HC74AFNTR-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	270.00/2,500		
TC74HC74AP-ND	Dual D-Type Flip Flop with Preset and Clear	14-Dip	.40	.32	.24
TC74HC86AP-ND	Quad Exclusive OR Gate	14-Dip	.47	.36	.27
TC74HC123AP-ND	Dual Monostable Multivibrator	16-Dip	.60	.45	.34
TC74HC125AFN-ND	Quad Bus Buffer, Tri-State	14-SOL	.44	.33	.25
TC74HC125AFNTR-ND	Quad Bus Buffer, Tri-State	14-SOL	357.50/2,500		
TC74HC125AP-ND	Quad Bus Buffer, Tri-State	14-Dip	.44	.33	.25
TC74HC132AFN-ND	Quad 2-Input Schmitt NAND Gate	14-SOL	.53	.40	.30
TC74HC132AP-ND	Quad 2-Input Schmitt NAND Gate	14-Dip	.60	.45	.34
TC74HC138AFN-ND	3-to-8 Line Decoder	16-SOL	.50	.40	.30
TC74HC138AFNTR-ND	3-to-8 Line Decoder	16-SOL	292.50/2,500		
TC74HC138AP-ND	3-to-8 Line Decoder	16-Dip	.52	.39	.30
TC74HC139AFN-ND	Dual 2-to-4 Line Decoder	16-SOL	.44	.33	.25
TC74HC139AFNTR-ND	Dual 2-to-4 Line Decoder	16-SOL	357.50/2,500		
TC74HC139AP-ND	Dual 2-to-4 Line Decoder	16-Dip	.44	.33	.25
TC74HC157AP-ND	Quad 2-Channel Multiplexer	16-Dip	.60	.45	.34
TC74HC173AP-ND	Quad D-Type Register, Tri-State	16-Dip	.64	.48	.36
TC74HC175AFN-ND	Quad D-Type Flip Flop with Clear	16-SOL	.48	.36	.27
TC74HC175AP-ND	Quad D-Type Flip Flop with Clear	16-Dip	.64	.48	.36
TC74HC244AFW-ND	Octal Bus Buffer, Tri-State	20-SOL	.64	.48	.36
TC74HC244AFWTR-ND	Octal Bus Buffer, Tri-State	20-SOL	199.50/1,000		
TC74HC244AP-ND	Octal Bus Buffer, Tri-State	20-Dip	.64	.48	.36
TC74HC245AFWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL	199.50/1,000		
TC74HC245AP-ND	Octal Bus Transceiver, Tri-State	20-Dip	.64	.48	.36
TC74HC259AP-ND	8-Bit Addressable Latch	16-Dip	.76	.57	.43
TC74HC273AFW-ND	Octal D-Type Flip Flop with Clear	20-SOL	.68	.51	.39
TC74HC273AFWTR-ND	Octal D-Type Flip Flop with Clear	20-SOL	239.40/1,000		
TC74HC273AP-ND	Octal D-Type Flip Flop with Clear	20-Dip	.74	.56	.42
TC74HC367AP-ND	Hex Bus Buffer, Tri-State	16-Dip	.64	.48	.36
TC74HC373AFW-ND	Octal D-Type Latch, Tri-State	20-SOL	.64	.48	.36
TC74HC373AFWTR-ND	Octal D-Type Latch, Tri-State	20-SOL	212.80/1,000		
TC74HC373AP-ND	Octal D-Type Latch, Tri-State	20-Dip	.64	.48	.36
TC74HC374AFW-ND	Octal D-Type Flip Flop	20-SOL	.64	.48	.36
TC74HC374AFWTR-ND	Octal D-Type Flip Flop	20-SOL	199.50/1,000		
TC74HC374AP-ND	Octal D-Type Flip Flop	20-Dip	.64	.48	.36
TC74HC541AP-ND	Octal Bus Buffer, Tri-State	20-Dip	.76	.57	.43
TC74HC573AFW-ND	Octal D-Type Latch, Tri-State	20-SOL	.64	.48	.36
TC74HC573AFWTR-ND	Octal D-Type Latch, Tri-State	20-SOL	199.50/1,000		
TC74HC573AP-ND	Octal D-Type Latch, Tri-State	20-Dip	.64	.48	.36
TC74HC574AP-ND	Octal D-Type Flip Flop, Tri-State	20-Dip	.64	.48	.36
TC74HC592AP-ND	8-Bit Register/Binary Counter	16-Dip	.93	.78	.62
TC74HC595AFN-ND	8-Bit Shift Register/Latch, Tri-State	16-SOL	.58	.44	.33
TC74HC595AFNTR-ND	8-Bit Shift Register/Latch, Tri-State	16-SOL	487.50/2,500		
TC74HC595AP-ND	8-Bit Shift Register/Latch, Tri-State	16-Dip	.48	.40	.32
TC74HC4040AFN-ND	12-Stage Binary Counter	16-SOL	.56	.42	.32
TC74HC4040AP-ND	12-Stage Binary Counter	16-Dip	.57	.43	.32
TC74HC4051AP-ND	8-Channel Analog Multiplexer	16-Dip	.76	.57	.43
TC74HC4052AP-ND	Dual 4-Channel Analog Multiplexer	16-Dip	.76	.57	.43
TC74HC4053AFN-ND	Triple 2-Channel Analog Multiplexer	16-SOL	.58	.44	.33
TC74HC4053AFNTR-ND	Triple 2-Channel Analog Multiplexer	16-SOL	468.00/2,500		
TC74HC4053AP-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.72	.54	.41
TC74HC4066AFN-ND	Quad Bilateral Switch	14-SOL	.51	.39	.29
TC74HC4066AP-ND	Quad Bilateral Switch	14-Dip	.68	.51	.39

TOSHIBA 74LCX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74LCX00FN-ND	Quad 2-Input NAND Gate	14-SOL	.51	.39	.29
TC74LCX00FTCT-ND	Quad 2-Input NAND Gate	14-TSSOP	.55	.44	.33
TC74LCX00FTTR-ND	Quad 2-Input NAND Gate	14-TSSOP	308.00/2,000		
TC74LCX02FN-ND	Quad 2-Input NOR Gate	14-SOL	.51	.39	.29
TC74LCX02FTCT-ND	Quad 2-Input NOR Gate	14-TSSOP	.55	.44	.33
TC74LCX02FTTR-ND	Quad 2-Input NOR Gate	14-TSSOP	308.00/2,000		
TC74LCX04FN-ND	Hex Inverter	14-SOL	.51	.39	.29
TC74LCX04FTCT-ND	Hex Inverter	14-TSSOP	.55	.44	.33
TC74LCX04FTTR-ND	Hex Inverter	14-TSSOP	308.00/2,000		
TC74LCX08FN-ND	Quad 2-Input AND Gate	14-SOL	.51	.39	.29
TC74LCX08FTCT-ND	Quad 2-Input AND Gate	14-TSSOP	.55	.44	.33
TC74LCX08FTTR-ND	Quad 2-Input AND Gate	14-TSSOP	308.00/2,000		
TC74LCX14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.51	.39	.29
TC74LCX14FTCT-ND	Hex Schmitt Inverter	14-TSSOP	.55	.44	.33
TC74LCX14FTTR-ND	Hex Schmitt Inverter	14-TSSOP	308.00/2,000		
TC74LCX32FN-ND	Quad 2-Input OR Gate	14-SOL	.51	.39	.29
TC74LCX32FTCT-ND	Quad 2-Input OR Gate	14-TSSOP	.55	.44	.33
TC74LCX32FTTR-ND	Quad 2-Input OR Gate	14-TSSOP	308.00/2,000		
TC74LCX74FN-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	.51	.39	.29
TC74LCX74FTCT-ND	Dual D-Type Flip Flop	14-TSSOP	.48	.36	.27
TC74LCX74FTTR-ND	Dual D-Type Flip Flop	14-TSSOP	319.20/2,000		
TC74LCX86FN-ND	Quad 2-Input EX-OR Gate	14-SOL	.51	.39	.29
TC74LCX86FTCT-ND	Quad 2-Input EX-OR Gate	14-TSSOP	.48	.36	.27
TC74LCX86FTTR-ND	Quad 2-Input EX-OR Gate	14-TSSOP	319.20/2,000		
TC74LCX125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.84	.63	.48
TC74LCX125FTCT-ND	Quad Bus Buffer, Tri-State	14-TSSOP	.48	.36	.27
TC74LCX125FTTR-ND	Quad Bus Buffer, Tri-State	14-TSSOP	319.20/2,000		
TC74LCX138FN-ND	3-to-8 Line Decoder	16-SOL	.62	.47	.36
TC74LCX138FTCT-ND	3-to-8 Line Decoder	16-TSSOP	.56	.42	.32
TC74LCX138FTTR-ND	3-to-8 Line Decoder	16-TSSOP	372.40/2,000		
TC74LCX157FTCT-ND	Quad 2-Channel Multiplexer	16-TSSOP	.52	.39	.30
TC74LCX157FTTR-ND	Quad 2-Channel Multiplexer	16-TSSOP	345.80/2,000		
TC74LCX240FTCT-ND	Octal Inverting Bus Buffer	20-TSSOP	.60	.45	.34
TC74LCX240FTTR-ND	Octal Inverting Bus Buffer	20-TSSOP	399.00/2,000		
TC74LCX240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.68	.54	.41
TC74LCX244FTCT-ND	Octal Bus Buffer, Tri-State	20-TSSOP	.60	.45	.34
TC74LCX244FTTR-ND	Octal Bus Buffer, Tri-State	20-TSSOP	399.00/2,000		
TC74LCX244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.68	.54	.41
TC74LCX245FTCT-ND	Octal Bus Transceiver, Tri-State	20-TSSOP	.64	.48	.36
TC74LCX245FTTR-ND	Octal Bus Transceiver, Tri-State	20-TSSOP	425.60/2,000		
TC74LCX245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.68	.54	.41
TC74LCX257FN-ND	Quad 2-Channel Multiplexer	16-SOL	.62	.47	.36
TC74LCX257FTCT-ND	Quad 2-Channel Multiplexer, Tri-State	16-TSSOP	.56	.42	.32
TC74LCX257FTTR-ND	Quad 2-Channel Multiplexer, Tri-State	16-TSSOP	372.40/2,000		
TC74LCX373FTCT-ND	Octal D-Type Latch, Tri-State	20-TSSOP	.60	.45	.34
TC74LCX373FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP	399.00/2,000		
TC74LCX373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.60	.49	.37
TC74LCX374FTCT-ND	Octal D-Type Flip Flop	20-TSSOP	.60	.45	.34
TC74LCX374FTTR-ND	Octal D-Type Flip Flop	20-TSSOP	399.00/2,000		
TC74LCX374FW-ND	Octal D-Type Flip Flop	20-SOL	.68	.54	.41
TC74LCX540FTCT-ND	Octal Inverting Bus Buffer	20-TSSOP	.60	.45	.34
TC74LCX540FTTR-ND	Octal Inverting Bus Buffer	20-TSSOP	399.00/2,000		
TC74LCX540FW-ND	Octal Inverting Bus Buffer	20-SOL	.87	.73	.58
TC74LCX541FTCT-ND	Octal Bus Buffer	20-TSSOP	.60	.45	.34
TC74LCX541FTTR-ND	Octal Bus Buffer	20-TSSOP	359.10/2,000		
TC74LCX541FW-ND	Octal Bus Buffer	20-SOL	.87	.73	.58
TC74LCX573FTCT-ND	Octal D-Type Latch, Tri-State	20-TSSOP	.60	.45	.34
TC74LCX573FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP	399.00/2,000		
TC74LCX573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.73	.58	.44
TC74LCX574FTCT-ND	Octal D-Type Flip-Flop, Tri-State	20-TSSOP	.60	.45	.34
TC74LCX574FTTR-ND	Octal D-Type Flip-Flop, Tri-State	20-TSSOP	399.00/2,000		
TC74LCX574FW-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL	.73	.58	.44
TC74LCX16240AFTTR-ND	Inverting 16-Bit Bus Buffer, Tri-State	48-TSSOP	650.00/1,000		
TC74LCX16244AFTTR-ND	16-Bit Bus Buffer, Tri-State	48-TSSOP	650.00/1,000		
TC74LCX16245AFTTR-ND	16-Bit Bus Transceiver, Tri-State	48-TSSOP	650.00/1,000		
TC74LCX16373AFTTR-ND	16-Bit D-Type Latch, Tri-State	48-TSSOP	650.00/1,000		
TC74LCX16374AFTTR-ND	16-Bit D-Type Flip-Flop, Tri-State	48-TSSOP	650.00/1,000		

TOSHIBA 74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74LVX00FN-ND	Quad 2-Input NAND Gate	14-SOL	.46	.37	.28
TC74LVX00FTTR-ND	Quad 2-Input NAND Gate	14-TSSOP	425.60/2,000		
TC74LVX02FN-ND	Quad 2-Input NOR Gate	14-SOL	.46	.37	.28
TC74LVX02FTTR-ND	Quad 2-Input NOR Gate	14-TSSOP	425.60/2,000		
TC74LVX04FN-ND	Hex Inverter	14-SOL	.46	.37	.28
TC74LVX04FTTR-ND	Hex Inverter	14-TSSOP	425.60/2,000		
TC74LVX08FN-ND	Quad 2-Input AND Gate	14-SOL	.46	.37	.28
TC74LVX08FTTR-ND	Quad 2-Input AND Gate	14-TSSOP	425.60/2,000		
TC74LVX14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.47	.38	.29
TC74LVX14FTTR-ND	Hex Schmitt Trigger Inverter	14-TSSOP	279.30/2,000		
TC74LVX32FN-ND	Quad 2-Input OR Gate	14-SOL	.49	.40	.30
TC74LVX32FTTR-ND	Quad 2-Input OR Gate	14-TSSOP	425.60/2,000		
TC74LVX74FN-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	.53	.43	.32
TC74LVX74FTTR-ND	Dual D-Type Flip Flop with Preset and Clear	14-TSSOP	532.00/2,000		
TC74LVX86FN-ND	Quad Exclusive OR Gate	14-SOL	.53	.43	.32
TC74LVX86FTTR-ND	Quad Exclusive OR Gate	14-TSSOP	478.80/2,000		
TC74LVX125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.68	.51	.39
TC74LVX125FTTR-ND	Quad Bus Buffer, Tri-State	14-TSSOP	558.60/2,000		
TC74LVX138FN-ND	3-to-8 Line Decoder	16-SOL	.53	.40	.30
TC74LVX138FTTR-ND	3-to-8 Line Decoder	16-TSSOP	558.60/2,000		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

TOSHIBA 74LVX SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74LVX157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.56	.42	.32
TC74LVX157FTTR-ND	Quad 2-Channel Multiplexer	16-TSSOP		585.20/2,000	
TC74LVX174FN-ND	Hex D-Type Flip Flop with Clear	16-SOL	.84	.63	.48
TC74LVX174FTTR-ND	Hex D-Type Flip Flop with Clear	16-TSSOP		691.60/2,000	
TC74LVX240FTTR-ND	Octal Inverting Bus Buffer, Tri-State	20-TSSOP		454.86/2,000	
TC74LVX240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.92	.69	.52
TC74LVX244FTTR-ND	Octal Bus Buffer, Tri-State	20-TSSOP		771.40/2,000	
TC74LVX244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.92	.69	.52
TC74LVX245FTTR-ND	Octal Bus Transceiver, Tri-State	20-TSSOP		824.60/2,000	
TC74LVX245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.75	.63	.50
TC74LVX273FTTR-ND	Octal D-Type Flip Flop with Clear	20-TSSOP		771.40/2,000	
TC74LVX273FW-ND	Octal D-Type Flip Flop with Clear	20-SOL	.88	.66	.50
TC74LVX373FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP		771.40/2,000	
TC74LVX373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.92	.69	.52
TC74LVX374FTTR-ND	Octal D-Type Flip Flop	20-TSSOP		771.40/2,000	
TC74LVX374FW-ND	Octal D-Type Flip Flop	20-SOL	.92	.69	.52
TC74LVX573FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP		931.00/2,000	
TC74LVX573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.84	.70	.56
TC74LVX4245FSTR-ND	Dual Supply Octal Bus Transceiver	24-SSOP		2550.00/2,000	

TOSHIBA 74VHC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74VHC00FN-ND	Quad 2-Input NAND Gate	14-SOL	.46	.37	.28
TC74VHC00FNTR-ND	Quad 2-Input NAND Gate	14-SOL		303.75/2,500	
TC74VHC00FTTR-ND	Quad 2-Input NAND Gate	14-TSSOP		212.80/2,000	
TC74VHC02FN-ND	Quad 2-Input NOR Gate	14-SOL	.46	.37	.28
TC74VHC02FNTR-ND	Quad 2-Input NOR Gate	14-SOL		303.75/2,500	
TC74VHC02FTTR-ND	Quad 2-Input NOR Gate	14-TSSOP		252.00/2,000	
TC74VHC04FN-ND	Hex Inverter	14-SOL	.46	.37	.28
TC74VHC04FNTR-ND	Hex Inverter	14-SOL		310.50/2,500	
TC74VHC04FTTR-ND	Hex Inverter	14-TSSOP		252.00/2,000	
TC74VHC08FN-ND	Quad 2-Input AND Gate	14-SOL	.46	.37	.28
TC74VHC08FNTR-ND	Quad 2-Input AND Gate	14-SOL		310.50/2,500	
TC74VHC08FTTR-ND	Quad 2-Input AND Gate	14-TSSOP		252.00/2,000	
TC74VHC10FN-ND	Triple 3-Input NAND Gate	14-SOL	.50	.40	.30
TC74VHC10FNTR-ND	Triple 3-Input NAND Gate	14-SOL		371.25/2,500	
TC74VHC10FTTR-ND	Triple 3-Input NAND Gate	14-TSSOP		308.00/2,000	
TC74VHC11FTTR-ND	Triple 3-Input AND Gate	14-TSSOP		308.00/2,000	
TC74VHC14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.50	.40	.30
TC74VHC14FNTR-ND	Hex Schmitt Trigger Inverter	14-SOL		337.50/2,500	
TC74VHC14FTTR-ND	Hex Schmitt Trigger Inverter	14-TSSOP		266.00/2,000	
TC74VHC20FN-ND	Dual 4-Input NAND Gate	14-SOL	.47	.38	.29
TC74VHC20FTTR-ND	Dual 4-Input NAND Gate	14-TSSOP		308.00/2,000	
TC74VHC21FN-ND	Dual 4-Input AND Gate	14-SOL	.47	.38	.29
TC74VHC21FTTR-ND	Dual 4-Input AND Gate	14-TSSOP		308.00/2,000	
TC74VHC32FN-ND	Quad 2-Input OR Gate	14-SOL	.46	.37	.28
TC74VHC32FNTR-ND	Quad 2-Input OR Gate	14-SOL		310.50/2,500	
TC74VHC32FTTR-ND	Quad 2-Input OR Gate	14-TSSOP		266.00/2,000	
TC74VHC74FN-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL	.53	.43	.32
TC74VHC74FNTR-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOL		357.75/2,500	
TC74VHC74FTTR-ND	Dual D-Type Flip Flop with Preset and Clear	14-TSSOP		212.80/2,000	
TC74VHC86FN-ND	Quad Exclusive OR Gate	14-SOL	.53	.43	.32
TC74VHC86FNTR-ND	Quad Exclusive OR Gate	14-SOL		357.75/2,500	
TC74VHC86FTTR-ND	Quad Exclusive OR Gate	14-TSSOP		280.00/2,000	
TC74VHC125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.56	.45	.34
TC74VHC125FNTR-ND	Quad Bus Buffer, Tri-State	14-SOL		422.50/2,500	
TC74VHC125FTTR-ND	Quad Bus Buffer, Tri-State	14-TSSOP		319.20/2,000	
TC74VHC126FTTR-ND	Quad Bus Buffer, Tri-State	14-TSSOP		319.20/2,000	
TC74VHC138FN-ND	3-to-8 Line Decoder	16-SOL	.53	.40	.30
TC74VHC138FNTR-ND	3-to-8 Line Decoder	16-SOL		432.25/2,500	
TC74VHC138FTTR-ND	3-to-8 Line Decoder	16-TSSOP		319.20/2,000	
TC74VHC139FN-ND	Dual 2-to-4 Line Decoder	16-SOL	.58	.44	.33
TC74VHC139FTTR-ND	Dual 2-to-4 Line Decoder	16-TSSOP		319.20/2,000	
TC74VHC153FTTR-ND	Dual 4-Channel Multiplexer	16-TSSOP		319.20/2,000	
TC74VHC157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.56	.42	.32
TC74VHC157FNTR-ND	Quad 2-Channel Multiplexer	16-SOL		451.75/2,500	
TC74VHC157FTTR-ND	Quad 2-Channel Multiplexer	16-TSSOP		319.20/2,000	
TC74VHC164FN-ND	8-Bit SIPO Shift Register	14-SOL	.53	.40	.30
TC74VHC164FTTR-ND	8-Bit SIPO Shift Register	14-TSSOP		313.88/2,000	
TC74VHC165FN-ND	8-Bit PISO Shift Register	16-SOL	.58	.44	.33
TC74VHC165FTTR-ND	8-Bit PISO Shift Register	16-TSSOP		399.00/2,000	
TC74VHC174FN-ND	Hex D-Type Flip Flop with Clear	16-SOL	.58	.44	.33
TC74VHC174FTTR-ND	Hex D-Type Flip Flop with Clear	16-TSSOP		372.40/2,000	
TC74VHC175FN-ND	Quad D-Type Flip Flop with Clear	16-SOL	.58	.44	.33
TC74VHC175FTTR-ND	Quad D-Type Flip Flop with Clear	16-TSSOP		372.40/2,000	
TC74VHC238FN-ND	3-to-8 Line Decoder	16-SOL	.58	.44	.33
TC74VHC238FTTR-ND	3-to-8 Line Decoder	16-TSSOP		638.40/2,000	
TC74VHC240FTTR-ND	Octal Inverting Bus Buffer, Tri-State	20-TSSOP		372.40/2,000	
TC74VHC240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.72	.54	.41
TC74VHC244FTTR-ND	Octal Bus Buffer, Tri-State	20-TSSOP		372.40/2,000	
TC74VHC244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.72	.54	.41
TC74VHC245FTTR-ND	Octal Bus Transceiver, Tri-State	20-TSSOP		425.60/2,000	
TC74VHC245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.72	.54	.41
TC74VHC245FWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL		226.10/1,000	
TC74VHC273FTTR-ND	Octal D-Type Flip Flop with Clear	20-TSSOP		372.40/2,000	
TC74VHC273FW-ND	Octal D-Type Flip Flop with Clear	20-SOL	.72	.54	.41
TC74VHC273FWTR-ND	Octal D-Type Flip Flop with Clear	20-SOL		252.70/1,000	
TC74VHC299FTTR-ND	8-Bit PIPO Shift Register	20-TSSOP		851.20/2,000	
TC74VHC299FW-ND	8-Bit PIPO Shift Register	20-SOL	1.33	1.06	.80
TC74VHC367FN-ND	Hex Bus Buffer, Tri-State	16-SOL	.56	.42	.32
TC74VHC367FNTR-ND	Hex Bus Buffer, Tri-State	16-SOL		617.50/2,500	
TC74VHC367FTTR-ND	Hex Bus Buffer, Tri-State	16-TSSOP		345.80/2,000	
TC74VHC373FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP		372.40/2,000	
TC74VHC373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.72	.54	.41
TC74VHC373FWTR-ND	Octal D-Type Latch, Tri-State	20-SOL		252.70/1,000	
TC74VHC374FTTR-ND	Octal D-Type Flip Flop	20-TSSOP		372.40/2,000	
TC74VHC374FW-ND	Octal D-Type Flip Flop	20-SOL	.72	.54	.41
TC74VHC374FWTR-ND	Octal D-Type Flip Flop	20-SOL		252.70/1,000	
TC74VHC393FN-ND	Dual Binary Counter	14-SOL	.60	.45	.34
TC74VHC393FTTR-ND	Dual Binary Counter	14-TSSOP		638.40/2,000	
TC74VHC540FTTR-ND	Inverting Octal Bus Buffer, Tri-State	20-TSSOP		425.60/2,000	
TC74VHC540FW-ND	Inverting Octal Bus Buffer, Tri-State	20-SOL	.68	.51	.39
TC74VHC541FTTR-ND	Octal Bus Buffer, Tri-State	20-TSSOP		425.60/2,000	
TC74VHC541FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.68	.51	.39
TC74VHC541FWTR-ND	Octal Bus Buffer, Tri-State	20-SOL		226.10/1,000	
TC74VHC573FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP		425.60/2,000	
TC74VHC573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.68	.51	.39
TC74VHC573FWTR-ND	Octal D-Type Latch, Tri-State	20-SOL		226.10/1,000	
TC74VHC574FTTR-ND	Octal D-Type Flip Flop, Tri-State	20-TSSOP		425.60/2,000	
TC74VHC574FW-ND	Octal D-Type Flip Flop, Tri-State	20-SOL	.68	.51	.39
TC74VHC574FWTR-ND	Octal D-Type Flip Flop, Tri-State	20-SOL		226.10/1,000	
TC74VHC595FN-ND	8-Bit Shift Register/Latch, Tri-State	16-SOL	.64	.49	.37
TC74VHC595FTTR-ND	8-Bit Shift Register/Latch, Tri-State	16-TSSOP		744.80/2,000	
TC74VHC4040FN-ND	12-Stage Binary Counter	16-SOL	.64	.48	.36
TC74VHC4040FTTR-ND	12-Stage Binary Counter	16-TSSOP		558.60/2,000	

TOSHIBA LMOS SERIES

Surface Mount Product in Cut-Tape

Digi-Key Part No.	Description	Pkg.	Cut Tape Price Each★ 1	25	100
TC4S66FCT-ND	Single Analog Switch (4066B)	SMV-5	.68	.51	.39
TC4S584FCT-ND	Single Schmitt Trigger (4584B)	SMV-5	.48	.36	.27
TC7S00FCT-ND	Single NAND Gate (74HC00)	SMV-5	.46	.37	.26
TC7S02FCT-ND	Single NOR Gate (74HC02)	SMV-5	.46	.37	.26
TC7S04FTCT-ND	Single Inverter (74HC04)	SMV-5	.31	.26	.18
TC7S08FCT-ND	Single AND Gate (74HC08)	SMV-5	.46	.37	.26
TC7S14FT5CT-ND	Schmitt Inverter	SMV-5	.46	.37	.26
TC7S32FCT-ND	Single OR Gate (74HC32)	SMV-5	.46	.37	.26
TC7SET00FCT-ND	Single TTL NAND Gate	SMV-5	.48	.36	.27
TC7SET00FUTCT-ND	Single TTL NAND Gate	USV-5	.30	.23	.17
TC7SET02FCT-ND	Single TTL NOR Gate	SMV-5	.30	.23	.17
TC7SET02FUTCT-ND	Single TTL NOR Gate	USV-5	.30	.23	.17
TC7SET04FCT-ND	Single TTL Inverter Gate	SMV-5	.30	.23	.17
TC7SET04FUTCT-ND	Single TTL Inverter Gate	USV-5	.30	.23	.17
TC7SET08FCT-ND	Single TTL AND Gate	SMV-5	.19	.15	.11
TC7SET08FUTCT-ND	Single TTL AND Gate	USV-5	.30	.23	.17
TC7SET32FCT-ND	Single TTL OR Gate	SMV-5	.30	.23	.17
TC7SET32FUTCT-ND	Single TTL OR Gate	USV-5	.30	.23	.17
TC7SH00FCT-ND	Single VHS NAND Gate	SMV-5	.46	.37	.26
TC7SH02FCT-ND	Single TTL NOR Gate	SMV-5	.46	.37	.26
TC7SH04FCT-ND	Single VHS Inverter	SMV-5	.46	.37	.26
TC7SH08FCT-ND	Single VHS AND Gate	SMV-5	.46	.37	.26
TC7SH32FCT-ND	Single VHS OR Gate	SMV-5	.46	.37	.26
TC7SH86FCT-ND	Single VHS Exclusive OR Gate	SMV-5	.46	.37	.26
TC7SH86FUTCT-ND	Single VHS Exclusive OR Gate	USV-5	.31	.26	.18
TC7SHU04FCT-ND	Single Unbuffered VHS Inverter	SMV-5	.46	.37	.26
TC7SL00FUTCT-ND	Single 1 Volt NAND Gate	USV-5	.47	.38	.26
TC7SL02FUTCT-ND	Single 1 Volt NOR Gate	USV-5	.47	.38	.26
TC7SL04FUTCT-ND	Single 1 Volt Inverter	USV-5	.47	.38	.26
TC7SL08FUTCT-ND	Single 1 Volt AND Gate	USV-5	.31	.26	.18
TC7SL32FUTCT-ND	Single 1 Volt OR Gate	USV-5	.47	.38	.26
TC7SLU04FUTCT-ND	Single 1 Volt Unbuffered Inverter	USV-5	.47	.38	.26
TC7ST00FCT-ND	Single TTL NAND Gate	SMV-5	.75	.63	.50
TC7ST00FUTCT-ND	Single TTL NAND Gate	USV-5	.83	.69	.55
TC7ST02FCT-ND	Single TTL NOR Gate	SMV-5	.75	.63	.50
TC7ST04FCT-ND	Single TTL Inverter Gate	SMV-5	.75	.63	.50
TC7ST08FCT-ND	Single TTL AND Gate	SMV-5	.75	.63	.50
TC7ST08FUTCT-ND	Single TTL AND Gate	USV-5	.83	.69	.55
TC7ST32FCT-ND	Single TTL OR Gate	SMV-5	.75	.63	.50
TC7ST32FUTCT-ND	Single TTL OR Gate	USV-5	.83	.69	.55
TC7SU04FCT-ND	Single Inverter (74HCU04)	SMV-5	.46	.37	.26
TC7SZ00FCT-ND	2-Input NAND Gate	SMV-5	.46	.37	.26
TC7SZ00FUTCT-ND	2-Input NAND Gate	USV-5	.46	.37	.26
TC7SZ02FCT-ND	2-Input NOR Gate	SMV-5	.46	.37	.26
TC7SZ02FUTCT-ND	2-Input NOR Gate	USV-5	.46	.37	.26
TC7SZ04FCT-ND	Single Inverter Gate	SMV-5	.33	.27	.18
TC7SZ04FUTCT-ND	Single Inverter Gate	USV-5	.46	.37	.26
TC7SZ05FCT-ND	Inverter (Open Drain)	SMV-5	.46	.37	.26
TC7SZ05FUTCT-ND	Inverter (Open Drain)	USV-5	.33	.27	.18
TC7SZ08FCT-ND	2-Input AND Gate	SMV-5	.46	.37	.26
TC7SZ08FUTCT-ND	2-Input AND Gate	USV-5	.46	.37	.26
TC7SZ32FCT-ND	2-Input OR Gate	SMV-5	.46	.37	.26
TC7SZ32FUTCT-ND	2-Input OR Gate	USV-5	.46	.37	.26
TC7SZ125FCT-ND	Bus Buffer 3-State Output	SMV-5	.50	.40	.30
TC7SZ125FUTCT-ND	Bus Buffer 3-State Output	USV-5	.50	.40	.30
TC7SZ126FCT-ND	Bus Buffer 3-State Output	SMV-5	.50	.40	.30
TC7SZ126FUTCT-ND	Bus Buffer 3-State Output	USV-5	.50	.40	.30
TC7SZU04FCT-ND	Inverter (Unbuffered)	SMV-5	.46	.37	.26
TC7SZU04FUTCT-ND	Inverter (Unbuffered)	USV-5	.46	.37	.26
TC7W00FCT-ND	Dual 2-Input NAND Gate (74HC00)	FM8	.74	.56	.42
TC7W00FKCT-ND	Dual 2-Input NAND Gate	US8-8	.56	.42	.32
TC7W00FUTCT-ND	Dual 2-Input NAND Gate	SM8-8	.56	.42	.32
TC7W02FCT-ND	Dual 2-Input NOR Gate (74HC02)	FM8	.74	.56	.42
TC7W02FKCT-ND	Dual 2-Input NOR Gate	US8-8	.56	.42	.32
TC7W02FUTCT-ND	Dual 2-Input NOR Gate	SM8-8	.56	.42	.32
TC7W04FCT-ND	Triple Inverter (74HC04)	FM8	.74	.56	.42
TC7W04FKCT-ND	Triple Inverter (74HC04)	US8-8	.56	.42	.32
TC7W04FUTCT-ND	Triple Inverter (74HC04)	SM8-8	.56	.42	.32
TC7W08FCT-ND	Dual 2-Input AND Gate (74HC08)	FM8	.74	.56	.42
TC7W08FKCT-ND	Dual 2-Input AND Gate (74HC08)	US8-8	.56	.42	.32
TC7W08FUTCT-ND	Dual 2-Input AND Gate (74HC08)	SM8-8	.56	.42	.32
TC7W14FKCT-ND	Schmitt Inverter	US8-8	.56	.42	.32
TC7W32FCT-ND	Dual 2-Input OR Gate (74HC32)	FM8	.74	.56	.42
TC7W32FKCT-ND	Dual 2-Input OR Gate (74HC32AP/F)	US8-8	.56	.42	.32
TC7W32FUTCT-ND	Dual 2-Input OR Gate (74HC32AP/F)	SM8-8	.56	.42	.32
TC7W34FKCT-ND	Triple Non-Inverting Buffer (TC7W34FU)	US8-8	.56	.42	.32
TC7W53FKCT-ND	2-Channel Multiplexer/Demultiplexer	US8-8	.56	.42	.32
TC7W66FKCT-ND	Dual Bilateral Switch	US8-8	.56	.42	.32
TC7W66FUTCT-ND	Dual Bilateral Switch	SM8-8	.56	.42	.32
TC7W74FKCT-ND	D-Type Flip Flop	US8-8	.56	.42	.32
TC7W74FUTCT-ND	D-Type Flip Flop	SM8-8	.56	.42	.32
TC7W125FUTCT-ND	Dual Bus Buffer	SM8-8	.56	.42	.32
TC7W126FUTCT-ND	Dual Bus Buffer	SM8-8	.56	.42	.32
TC7WH00FKCT-ND	Dual 2-Input NAND Gate	US8-8	.56	.42	.32
TC7WH00FUTCT-ND	Dual 2-Input NAND Gate	SM8-8	.56	.42	.32

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

TOSHIBA LMOS SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Cut Tape Price Each★ 1	25	100
TC7WH02FKCT-ND	Dual 2-Input NOR Gate	US8-8	.56	.42	.32
TC7WH02FUTCT-ND	Dual 2-Input NOR Gate	SM8-8	.56	.42	.32
TC7WH04FKCT-ND	Triple Inverter	US8-8	.56	.42	.32
TC7WH04FUTCT-ND	Triple Inverter	SM8-8	.36	.27	.21
TC7WH08FKCT-ND	Dual 2-Input AND Gate	US8-8	.56	.42	.32
TC7WH08FUTCT-ND	Dual 2-Input AND Gate	SM8-8	.56	.42	.32
TC7WH14FKCT-ND	Triple Schmitt Inverter	US8-8	.56	.42	.32
TC7WH14FUTCT-ND	Triple Schmitt Inverter	SM8-8	.56	.42	.32
TC7WH32FKCT-ND	Dual 2-Input OR Gate	US8-8	.56	.42	.32
TC7WH32FUTCT-ND	Dual 2-Input OR Gate	SM8-8	.56	.42	.32
TC7WH34FKCT-ND	Triple Buffer	US8-8	.56	.42	.32
TC7WH34FUTCT-ND	Triple Buffer	SM8-8	.56	.42	.32
TC7WH74FKCT-ND	D-Type Flip Flop with Preset and Clear	US8-8	.56	.42	.32
TC7WH74FUTCT-ND	D-Type Flip Flop with Preset and Clear	SM8-8	.56	.42	.32
TC7WH123FKCT-ND	Monostable Multivibrator	US8-8	.56	.42	.32
TC7WH123FUTCT-ND	Monostable Multivibrator	SM8-8	.56	.42	.32
TC7WH125FKCT-ND	Dual Bus Buffer	US8-8	.56	.42	.32
TC7WH126FKCT-ND	Dual Bus Buffer	US8-8	.56	.42	.32
TC7WH157FKCT-ND	2-Channel Multiplexer	US8-8	.56	.42	.32
TC7WH157FUTCT-ND	2-Channel Multiplexer	SM8-8	.56	.42	.32
TC7WH240FKCT-ND	Dual Bus Buffer Inverted, 3-State Output	US8-8	.56	.42	.32
TC7WH240FUTCT-ND	Dual Bus Buffer Inverted, 3-State Output	SM8-8	.56	.42	.32
TC7WH241FKCT-ND	Dual Bus Buffer Non-Inverted, 3-State Output	US8-8	.56	.42	.32
TC7WH241FUTCT-ND	Dual Bus Buffer Non-Inverted, 3-State Output	SM8-8	.56	.42	.32
TC7WH245FKCT-ND	Dual Bus Transceiver	US8-8	.56	.42	.32
TC7WH245FUTCT-ND	Dual Bus Transceiver	SM8-8	.56	.42	.32
TC7WHU04FKCT-ND	Triple Inverter	US8-8	.56	.42	.32
TC7WHU04FUTCT-ND	Triple Inverter	SM8-8	.56	.42	.32
TC7WT125FUTCT-ND	Dual Bus Buffer	SM8-8	.68	.51	.39
TC7WU04FCT-ND	Triple Inverter (74HCU04)	FM8	.74	.56	.42
TC7WU04FKCT-ND	Triple Inverter	US8-8	.56	.42	.32
TC7WU04FUTCT-ND	Triple Inverter	SM8-8	.56	.42	.32

Surface Mount Product on Tape and Reel

Digi-Key Part No.	Description	Pkg.	Tape & Reel Pricing★ 3,000
TC4S66FTR-ND	Single Analog Switch (4066B)	SMV-5	221.00/M
TC4S584FTR-ND	Single Schmitt Trigger (4584B)	SMV-5	156.00/M
TC7S00FTR-ND	Single NAND Gate (74HC00)	SMV-5	119.00/M
TC7S02FTR-ND	Single NOR Gate (74HC02)	SMV-5	119.00/M
TC7S04FTTR-ND	Single Inverter (74HC04)	SMV-5	81.60/M
TC7S08FTR-ND	Single AND Gate (74HC08)	SMV-5	119.00/M
TC7S14FT5TR-ND	Schmitt Inverter	SMV-5	119.00/M
TC7S32FTR-ND	Single OR Gate (74HC32)	SMV-5	119.00/M
TC7SET00FTR-ND	Single TTL NAND Gate	SMV-5	156.00/M
TC7SET00FUTTR-ND	Single TTL NAND Gate	USV-5	97.50/M
TC7SET02FTR-ND	Single TTL NOR Gate	SMV-5	97.50/M
TC7SET02FUTTR-ND	Single TTL NOR Gate	USV-5	97.50/M
TC7SET04FTR-ND	Single TTL Inverter Gate	SMV-5	97.50/M
TC7SET04FUTTR-ND	Single TTL Inverter Gate	USV-5	97.50/M
TC7SET08FTR-ND	Single TTL AND Gate	SMV-5	62.40/M
TC7SET08FUTTR-ND	Single TTL AND Gate	USV-5	97.50/M
TC7SET32FTR-ND	Single TTL OR Gate	SMV-5	97.50/M
TC7SET32FUTTR-ND	Single TTL OR Gate	USV-5	97.50/M
TC7SH00FTR-ND	Single VHS NAND Gate	SMV-5	119.00/M
TC7SH02FTR-ND	Single TTL NOR Gate	SMV-5	119.00/M
TC7SH04FTR-ND	Single VHS Inverter	SMV-5	119.00/M
TC7SH08FTR-ND	Single VHS AND Gate	SMV-5	119.00/M
TC7SH32FTR-ND	Single VHS OR Gate	SMV-5	119.00/M
TC7SH86FTR-ND	Single VHS Exclusive OR Gate	SMV-5	119.00/M
TC7SH86FUTTR-ND	Single VHS Exclusive OR Gate	USV-5	81.60/M
TC7SHU04FTR-ND	Single Unbuffered VHS Inverter	SMV-5	119.00/M
TC7SL00FUTTR-ND	Single 1 Volt NAND Gate	USV-5	122.40/M
TC7SL02FUTTR-ND	Single 1 Volt NOR Gate	USV-5	122.40/M
TC7SL04FUTTR-ND	Single 1 Volt Inverter	USV-5	122.40/M
TC7SL08FUTTR-ND	Single 1 Volt AND Gate	USV-5	81.60/M
TC7SL32FUTTR-ND	Single 1 Volt OR Gate	USV-5	122.40/M
TC7SLU04FUTTR-ND	Single 1 Volt Unbuffered Inverter	USV-5	122.40/M
TC7ST00FTR-ND	Single TTL NAND Gate	SMV-5	325.00/M
TC7ST00FUTTR-ND	Single TTL NAND Gate	USV-5	357.50/M
TC7ST02FTR-ND	Single TTL NOR Gate	SMV-5	325.00/M
TC7ST02FUTTR-ND	Single TTL NOR Gate	USV-5	357.50/M
TC7ST08FTR-ND	Single TTL AND Gate	SMV-5	325.00/M
TC7ST08FUTTR-ND	Single TTL AND Gate	USV-5	357.50/M
TC7ST32FUTTR-ND	Single TTL OR Gate	USV-5	357.50/M
TC7SU04FTR-ND	Single Inverter (74HCU04)	SMV-5	119.00/M
TC7SZ00FTR-ND	2-Input NAND Gate	SMV-5	119.00/M
TC7SZ00FUTTR-ND	2-Input NAND Gate	USV-5	91.00/M
TC7SZ02FTR-ND	2-Input NOR Gate	SMV-5	119.00/M
TC7SZ02FUTTR-ND	2-Input NOR Gate	USV-5	91.00/M
TC7SZ04FTR-ND	Single Inverter Gate	SMV-5	85.00/M
TC7SZ04FUTTR-ND	Single Inverter Gate	USV-5	91.00/M
TC7SZ05FTR-ND	Inverter (Open Drain)	SMV-5	119.00/M
TC7SZ05FUTTR-ND	Inverter (Open Drain)	USV-5	65.00/M
TC7SZ08FTR-ND	2-Input AND Gate	SMV-5	119.00/M
TC7SZ08FUTTR-ND	2-Input AND Gate	USV-5	91.00/M
TC7SZ32FTR-ND	2-Input OR Gate	SMV-5	119.00/M
TC7SZ32FUTTR-ND	2-Input OR Gate	USV-5	91.00/M
TC7SZ125FTR-ND	Bus Buffer 3-State Output	SMV-5	135.00/M
TC7SZ125FUTTR-ND	Bus Buffer 3-State Output	USV-5	130.00/M
TC7SZ126FTR-ND	Bus Buffer 3-State Output	SMV-5	135.00/M
TC7SZ126FUTTR-ND	Bus Buffer 3-State Output	USV-5	130.00/M
TC7SZU04FTR-ND	Inverter (Unbuffered)	SMV-5	119.00/M
TC7SZU04FUTTR-ND	Inverter (Unbuffered)	USV-5	119.00/M
TC7W00FKTR-ND	Dual 2-Input NAND Gate	US8-8	182.00/M
TC7W00FTR-ND	Dual 2-Input NAND Gate (74HC00)	FM8	246.05†
TC7W00FUTTR-ND	Dual 2-Input NAND Gate	SM8-8	182.00/M
TC7W02FKTR-ND	Dual 2-Input NOR Gate	US8-8	182.00/M
TC7W02FTR-ND	Dual 2-Input NOR Gate (74HC02)	FM8	246.05†
TC7W02FUTTR-ND	Dual 2-Input NOR Gate	SM8-8	182.00/M
TC7W04FKTR-ND	Triple Inverter (74HC04)	US8-8	182.00/M
TC7W04FTR-ND	Triple Inverter (74HC04)	FM8	246.05†
TC7W04FUTTR-ND	Triple Inverter (74HC04)	SM8-8	182.00/M
TC7W08FKTR-ND	Dual 2-Input AND Gate (74HC08)	US8-8	182.00/M
TC7W08FTR-ND	Dual 2-Input AND Gate (74HC08)	FM8	246.05†
TC7W08FUTTR-ND	Dual 2-Input AND Gate (74HC08)	SM8-8	182.00/M

Digi-Key Part No.	Description	Pkg.	Tape & Reel Pricing★ 3,000
TC7W14FKTR-ND	Schmitt Inverter	US8-8	182.00/M
TC7W32FKTR-ND	Dual 2-Input OR Gate (74HC32AP/F)	US8-8	182.00/M
TC7W32FTR-ND	Dual 2-Input OR Gate (74HC32)	FM8	246.05†
TC7W32FUTTR-ND	Dual 2-Input OR Gate (74HC32AP/F)	SM8-8	182.00/M
TC7W34FKTR-ND	Triple Non-Inverting Buffer (TC7W34FU)	US8-8	182.00/M
TC7W53FKTR-ND	2-Channel Multiplexer/Demultiplexer	US8-8	182.00/M
TC7W66FKTR-ND	Dual Bilateral Switch	US8-8	182.00/M
TC7W66FUTTR-ND	Dual Bilateral Switch	SM8-8	182.00/M
TC7W74FKTR-ND	D-Type Flip Flop	US8-8	182.00/M
TC7W74FUTTR-ND	D-Type Flip Flop	SM8-8	182.00/M
TC7W125FUTTR-ND	Dual Bus Buffer	SM8-8	182.00/M
TC7W126FUTTR-ND	Dual Bus Buffer	SM8-8	182.00/M
TC7WH00FKTR-ND	Dual 2-Input NAND Gate	US8-8	182.00/M
TC7WH00FUTTR-ND	Dual 2-Input NAND Gate	SM8-8	182.00/M
TC7WH02FKTR-ND	Dual 2-Input NOR Gate	US8-8	182.00/M
TC7WH02FUTTR-ND	Dual 2-Input NOR Gate	SM8-8	182.00/M
TC7WH04FKTR-ND	Triple Inverter	US8-8	182.00/M
TC7WH04FUTTR-ND	Triple Inverter	SM8-8	117.00/M
TC7WH08FKTR-ND	Dual 2-Input AND Gate	US8-8	182.00/M
TC7WH08FUTTR-ND	Dual 2-Input AND Gate	SM8-8	182.00/M
TC7WH14FKTR-ND	Triple Schmitt Inverter	US8-8	182.00/M
TC7WH14FUTTR-ND	Triple Schmitt Inverter	SM8-8	182.00/M
TC7WH32FKTR-ND	Dual 2-Input OR Gate	US8-8	182.00/M
TC7WH32FUTTR-ND	Dual 2-Input OR Gate	SM8-8	182.00/M
TC7WH34FKTR-ND	Triple Buffer	US8-8	182.00/M
TC7WH34FUTTR-ND	Triple Buffer	SM8-8	182.00/M
TC7WH74FKTR-ND	D-Type Flip Flop with Preset and Clear	US8-8	182.00/M
TC7WH74FUTTR-ND	D-Type Flip Flop with Preset and Clear	SM8-8	182.00/M
TC7WH123FKTR-ND	Monostable Multivibrator	US8-8	182.00/M
TC7WH123FUTTR-ND	Monostable Multivibrator	SM8-8	182.00/M
TC7WH125FKTR-ND	Dual Bus Buffer	US8-8	182.00/M
TC7WH126FKTR-ND	Dual Bus Buffer	US8-8	182.00/M
TC7WH157FKTR-ND	2-Channel Multiplexer	US8-8	182.00/M
TC7WH157FUTTR-ND	2-Channel Multiplexer	SM8-8	182.00/M
TC7WH240FKTR-ND	Dual Bus Buffer Inverted, 3-State Output	US8-8	182.00/M
TC7WH240FUTTR-ND	Dual Bus Buffer Inverted, 3-State Output	SM8-8	182.00/M
TC7WH241FKTR-ND	Dual Bus Buffer Non-Inverted, 3-State Output	US8-8	182.00/M
TC7WH241FUTTR-ND	Dual Bus Buffer Non-Inverted, 3-State Output	SM8-8	182.00/M
TC7WH245FKTR-ND	Dual Bus Transceiver	US8-8	182.00/M
TC7WH245FUTTR-ND	Dual Bus Transceiver	SM8-8	182.00/M
TC7WHU04FKTR-ND	Triple Inverter	US8-8	182.00/M
TC7WHU04FUTTR-ND	Triple Inverter	SM8-8	182.00/M
TC7WT125FUTTR-ND	Dual Bus Buffer	SM8-8	221.00/M
TC7WU04FKTR-ND	Triple Inverter	US8-8	182.00/M
TC7WU04FTR-ND	Triple Inverter (74HCU04)	FM8	246.05†
TC7WU04FUTTR-ND	Triple Inverter	SM8-8	182.00/M

† Tape and Reel pricing is priced at 1,000.

TOSHIBA LINEAR SERIES

Surface Mount Product in Cut-Tape

Digi-Key Part No.	Description	Pkg.	Cut Tape Price Each★ 1	25	100
TC75S54FCT-ND	Single Op Amp	SMV-5	1.33	1.06	.80
TC75S55FTCT-ND	Single Op Amp	SMV-5	1.33	1.06	.80
TC75W51FUTCT-ND	Dual Op Amp	SM8-8	2.23	1.78	1.34
TC75W54FUTCT-ND	Dual Op Amp	SM8-8	2.28	1.82	1.37
TC75W55FUTCT-ND	Dual Op Amp	SM8-8	2.28	1.82	1.37

Surface Mount Product on Tape & Reel

Digi-Key Part No.	Description	Pkg.	Tape & Reel Pricing★ 3,000
TC75S54FTR-ND	Single Op Amp	SMV-5	678.40/M
TC75S55FTTR-ND	Single Op Amp	SMV-5	678.40/M
TC75W51FUTTR-ND	Dual Op Amp	SM8-8	1139.20/M
TC75W54FUTTR-ND	Dual Op Amp	SM8-8	1164.80/M
TC75W55FUTTR-ND	Dual Op Amp	SM8-8	1164.80/M

National Semiconductor™ LINEAR SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CGS74CT2524M-ND	1-to-4 Minimum Skew (300ps) Clock Driver	8-SOIC	2.79	2.07	1.53
CGS74LCT2524M-ND	1-to-4 Minimum Skew (300ps) 3V Clock Driver	8-SOIC	2.79	2.07	1.53
CGS74LCT2524MXTR-ND	1-to-4 Minimum Skew (300ps) 3V Clock Driver	8-SOIC	2812.50/2,500		
CLC006AJE-ND	Serial Digital Cable Driver with Adj. Outputs	8-SOIC	8.99	7.11	5.70
CLC007AJE-ND	Serial Digital Cable Driver	8-SOIC	7.98	6.31	5.06
CLC014AJE-ND	Adaptive Cable Equalizer for High-Speed Recovery	14-SOIC	17.15	14.70	13.04
CLC016ACQ-ND	Data Retiming PLL with Automatic Rate Selection	28-PLCC	24.90	23.24	21.58
CLC016AJQ-ND	Data Retiming PLL with Automatic Rate Selection	28-PLCC	27.75	25.90	24.05
CLC016MTC-ND	Data Retiming PLL with Automatic Rate Selection	28-TSSOP	24.90	23.24	21.58
CLC018AJVJQ-ND	8 x 8 Digital Cross Point Switch	68-PQFP	24.30	22.68	21.06
CLC021AVGZ-3.3-ND	SMPTE 259M Digital Video Serializer with EDH Generation/Insertion	44-PQFP	39.30	36.68	34.06
CLC021VGZ-5.0-ND	SMPTE 259M Digital Video Serializer with EDH Generation/Insertion	44-PQFP	39.30	36.68	34.06
CLC030VEC-ND	SMPTE 292M/259M Digital Video Serializer w/Video and Ancilliary Data FIFOs and Integrated Cable Driver	64-TQFP	71.25	66.50	61.75
CLC730027-ND	Eval Board Designed to Aid Monolithic Amplifier Characterization for SOIC Packages	—	6.30	4.98	3.99
CLC730031-ND	Eval Board for Quad Op Amps in SOIC Packages	—	6.30	4.98	3.99
CLC730036-ND	Eval Board Designed to Aid in the Characterization of Dual Monolithic Amplifiers in SOIC Packages	—	6.30	4.98	3.99
CLC730121-ND	Eval Board Designed to Aid in the Characterization of 8-Pin Dual Op Amps in PSOP Packages	—	6.30	4.98	3.99
CLC730131-ND	Quad TSSOP Op Amp Evaluation Board	—	6.30	4.98	3.99
CLC730132-ND	Quad TSSOP High Speed Buffer Evaluation Board *NEW!*	—	6.30	4.80	3.99
CLC730145-ND	Quad SOIC High Speed Buffer Evaluation Board *NEW!*	—	6.30	4.80	3.99
CLC730227-ND	Single High Speed SOIC Op Amp Evaluation Board *NEW!*	—	6.30	4.98	3.99
CR16MAS9VJE9-ND	16-Bit, CAN CompactRISC™ Flash Microcontroller	80-PQFP	17.33	14.85	13.17
CR16MCS9VJE9-ND	16-Bit, CAN CompactRISC™ Flash Microcontroller	80-PQFP	15.75	14.70	13.65

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DP83223V-ND	Twister High-Speed Networking Transceiver Device	28-PLCC	15.16	12.99	11.52
DP83815DUJB-ND	Integrated PCI Ethernet Media Access Controller	160-LBGA	9.45	7.47	5.99
DP83820BVUW-ND	Ethernet Network Interface Controller	208-PQFP	35.70	33.32	30.94
DP83843BVJE-ND	Phyter with Integrated PMD Sublayers	80-PQFP	9.19	7.88	6.99
DP83847ALQA56A-ND	Single 10/100 Ethernet Transceiver	56-LLP	5.35	4.07	3.11
DS90LV001TM-ND	3.3V, LVDS-LVDS Buffer	8-SOIC	2.36	1.75	1.30
DS90LV011ATMFCT-ND	3V, LVDS Single High Speed Differential Driver	SOT-23	1.92	1.43	1.06
DS90LV011ATMFTR-ND	3V, LVDS Single High Speed Differential Driver	SOT-23	793.60/1,000		
DS90LV019TMTC-ND	3.3V or 5V, LVDS Driver/Receiver	14-TSSOP	4.05	3.08	2.35
DS92LV16TVHG-ND	16-Bit, Bus LVDS Serializer/Deserializer	80-LQFP	14.88	12.75	11.31
LF156H-ND	Mono JFET In Op Amp	TO-99	5.68	4.32	3.30
LF256H-ND	Wideband JFET Op Amp	TO-99	5.15	3.92	2.99
LF298M-ND	Monolithic Sample and Hold Circuit	14-SOIC	5.50	4.35	3.49
LF347BN-ND	Quad Bi-FET Op Amp	14-Dip	2.14	1.59	1.18
LF347M-ND	Quad Bi-FET Op Amp	14-SOIC	1.73	1.27	.92
LF347MXTR-ND	Quad Bi-FET Op Amp	14-SOIC	1466.25/2,500		
LF347NNS-ND	Quad Bi-FET Op Amp	14-Dip	1.76	1.30	.94
LF353M-ND	Wideband Dual JFET Op Amp	8-SOIC	.68	.49	.36
LF353MXTR-ND	Wideband Dual JFET Op Amp	8-SOIC	498.75/2,500		
LF353NNS-ND	Wideband Dual JFET Input Op Amp	8-Dip	.68	.49	.36
LF356H-ND	Monolithic JFET Input Op Amp	TO-99	2.73	2.08	1.59
LF356M-ND	Monolithic JFET Input Op Amp	8-SOIC	.94	.69	.50
LF356N-ND	Monolithic JFET Input Op Amp	8-Dip	.94	.69	.50
LF398AN-ND	Monolithic Sample and Hold Circuit	8-Dip	3.05	2.32	1.77
LF398H-ND	Monolithic Sample and Hold Circuit	TO-99	4.30	3.27	2.50
LF398M-ND	Monolithic Sample and Hold Circuit	14-SOIC	2.05	1.52	1.13
LF398N-ND	Monolithic Sample and Hold Circuit	8-Dip	2.08	1.55	1.14
LF411ACH-ND	Low Offset Low Drift JFET Input Op Amp	HO8B	8.36	6.61	5.30
LF411ACN-ND	Low Offset Low Drift JFET Input Op Amp	8-Dip	4.75	3.61	2.76
LF411CN-ND	Low Offset Low Drift JFET Input Op Amp	8-Dip	1.80	1.32	.96
LF412ACN-ND	Low Offset Low Drift JFET Dual Op Amp	8-Dip	5.18	3.94	3.01
LF412CN-ND	Low Offset Low Drift JFET Dual Op Amp	8-Dip	1.13	.83	.60
LF412MH-ND	Low Offset Low Drift JFET Dual Op Amp	MOD TO-99	9.24	7.31	5.86
LF442ACN-ND	Dual Low Power JFET Op Amp	8-Dip	5.57	4.40	3.53
LF442AMH-ND	Dual Low Power JFET Op Amp	8PIN MC	17.70	16.52	15.34
LF442CN-ND	Dual Low Power JFET Op Amp	8-Dip	1.61	1.19	.86
LF444ACN-ND	Quad Low Power JFET Op Amp	14-Dip	4.38	3.33	2.54
LF444CM-ND	Quad Low Power JFET Op Amp	14-SOIC	1.76	1.30	.94
LF444CN-ND	Quad Low Power JFET Op Amp	14-Dip	1.76	1.30	.94
LM10CH-ND	Op Amp and Voltage Reference	H08A	5.78	4.57	3.66
LM10CLN-ND	Op Amp and Voltage Reference	8-Dip	2.75	2.09	1.60
LM10CN-ND	Op Amp and Voltage Reference	8-Dip	3.50	2.66	2.03
LM10CWM-ND	Op Amp and Voltage Reference	14-SOIC	3.50	2.66	2.03
LM12CLK-ND	80W Power Op Amp 4-Pin	TO-3	20.10	18.76	17.42
LM12H458CIV-ND	12-Bit + Sign DAS with Self-Calibration	44-PQFP	21.45	20.02	18.59
LM12H458CIVF-ND	12-Bit + Sign DAS with Self-Calibration	44-PQFP	21.45	20.02	18.59
LM12L458CIV-ND	12-Bit + Sign Data Acquisition System with Self-Calibration	44-PQFP	21.45	20.02	18.59
LM20BIM7CT-ND	Micro SMD Temperature Sensor, ±25°C	SC-70-5	1.24	.91	.66
LM20BIM7TR-ND	Micro SMD Temperature Sensor, ±25°C	SC-70-5	429.00/1,000		
LM20CIM7CT-ND	Micro SMD Temperature Sensor, ±5°C	SC-70-5	1.09	.80	.58
LM20CIM7TR-ND	Micro SMD Temperature Sensor, ±5°C	SC-70-5	377.00/1,000		
LM20SIBPCT-ND	Micro SMD Temperature Sensor	4-MicroSMD	1.09	.80	.58
LM20SIBPTR-ND	Micro SMD Temperature Sensor	4-MicroSMD	108.75/250		
LM26CIM5-RPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.74	1.29	.96
LM26CIM5-RPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	716.80/1,000		
LM26CIM5-TPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.74	1.29	.96
LM26CIM5-TPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	716.80/1,000		
LM26CIM5-XPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.74	1.29	.96
LM26CIM5-XPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	716.80/1,000		
LM34AH-ND	Precision F. Temperature Sensor, -50°F to +300°F	TO-46	14.07	12.06	10.70
LM34CAH-ND	Precision F. Temperature Sensor, -40°F to +230°F	TO-46	11.67	10.01	8.88
LM34CAZ-ND	Precision F. Temperature Sensor, -40°F to +230°F	TO-92	6.64	5.25	4.21
LM34CH-ND	Precision F. Temperature Sensor, -40°F to +230°F	TO-46	9.63	8.25	7.32
LM34CZ-ND	Precision F. Temperature Sensor, -40°F to +230°F	TO-92	6.03	4.58	3.50
LM34DM-ND	Precision F. Temperature Sensor, +32°F to +212°F	8-SOIC	1.89	1.41	1.04
LM35DT-ND	Precision Celsius Temperature Sensor	TO-220	2.82	2.10	1.55
LM34DZ-ND	Precision F. Temperature Sensor, +32°F to +212°F	TO-92	2.33	1.73	1.28
LM35AH-ND	Precision Celsius Temperature Sensor, -55°C to +150°C	TO-46	16.35	15.26	14.17
LM35CAH-ND	Precision Celsius Temperature Sensor, -40°C to +110°C	TO-46	11.20	9.60	8.52
LM35CAZ-ND	Precision Celsius Temperature Sensor, -40°C to +110°C	TO-92	5.69	4.50	3.61
LM35CH-ND	Precision Celsius Temperature Sensor, -40°C to +110°C	TO-46	10.22	8.76	7.77
LM35CZ-ND	Precision Celsius Temperature Sensor, -40°C to +110°C	TO-92	5.88	4.47	3.41
LM35DH-ND	Precision Celsius Temperature Sensor, 0°C to +100°C	TO-46	3.63	2.76	2.11
LM35DM-ND	Precision Celsius Temperature Sensor, 0°C to +100°C	8-SOIC	2.05	1.52	1.13
LM35DMXTR-ND	Precision Celsius Temperature Sensor, 0°C to +100°C	8-SOIC	2062.50/2,500		
LM35DZ-ND	Precision Celsius Temperature Sensor, 0°C to +100°C	TO-92	1.98	1.48	1.09
LM45BIM3CT-ND	Precision Celsius Temperature Sensor	SOT-23	1.71	1.27	.94
LM45BIM3TR-ND	Precision Celsius Temperature Sensor	SOT-23	704.00/1,000		
LM45CIM3CT-ND	Precision Celsius Temperature Sensor	SOT-23	1.09	.80	.58
LM45CIM3TR-ND	Precision Celsius Temperature Sensor	SOT-23	377.00/1,000		
LM50BIM3CT-ND	Single Supply Centigrade Temperature Sensor	SOT-23	1.61	1.20	.89
LM50BIM3TR-ND	Single Supply Centigrade Temperature Sensor	SOT-23	665.60/1,000		
LM50CIM3CT-ND	Single Supply Centigrade Temperature Sensor	SOT-23	1.09	.80	.58
LM50CIM3TR-ND	Single Supply Centigrade Temperature Sensor	SOT-23	377.00/1,000		
LM56BIM-ND	Dual Output Low Power Thermostat	8-SOIC	2.51	1.87	1.38
LM56BIMMCT-ND	Dual Output Low Power Thermostat	8-MSOP	2.95	2.19	1.62
LM56BIMMTR-ND	Dual Output Low Power Thermostat	8-MSOP	1216.00/1,000		
LM56CIM-ND	Dual Output Low Power Thermostat	8-SOIC	1.89	1.41	1.04
LM56CIMMCT-ND	Dual Output Low Power Thermostat	8-MSOP	2.23	1.66	1.23
LM56CIMMTR-ND	Dual Output Low Power Thermostat	8-MSOP	921.60/1,000		
LM60BIM3CT-ND	2.7V, Temperature Sensor	SOT-23	1.43	1.05	.76
LM60BIM3TR-ND	2.7V, Temperature Sensor	SOT-23	494.00/1,000		
LM60BIZ-ND	2.7V, Temperature Sensor	TO-92-3	1.28	.94	.68
LM60CIM3CT-ND	2.7V, Temperature Sensor	SOT-23	1.01	.75	.54
LM60CIM3TR-ND	2.7V, Temperature Sensor	SOT-23	351.00/1,000		
LM61BIM3CT-ND	2.7V, Temperature Sensor	SOT-23	1.43	1.05	.76
LM61BIM3TR-ND	2.7V, Temperature Sensor	SOT-23	494.00/1,000		
LM61CIM3CT-ND	2.7V, Temperature Sensor, +30°C to +100°C	SOT-23	1.01	.75	.54
LM61CIM3TR-ND	2.7V, Temperature Sensor, +30°C to +100°C	SOT-23	351.00/1,000		
LM62BIM3CT-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23	1.43	1.05	.76
LM62BIM3TR-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23	494.00/1,000		
LM62CIM3CT-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23	1.01	.75	.54
LM62CIM3TR-ND	2.7V, Temperature Sensor	SOT-23	351.00/1,000		
LM70CILD-3CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	2.05	1.52	1.13
LM70CILD-3TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	844.80/1,000		
LM70CIMM-3CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-MSOP	1.86	1.38	1.02
LM70CIMM-3TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-MSOP	768.00/1,000		
LM70CIMM-5CT-ND	SPI/MICROWIRE10-Bit plus Digital Temp. Sensor	8-MSOP	1.86	1.38	1.02
LM70CIMM-5TR-ND	SPI/MICROWIRE10-Bit plus Digital Temp. Sensor	8-MSOP	768.00/1,000		
LM70CIMMX-3CT-ND	10-Bit plus Sign Digital Temperature Sensor	8-MSOP	1.86	1.38	1.02
LM70CIMMX-3TR-ND	10-Bit plus Sign Digital Temperature Sensor	8-MSOP	2625.00/3,500		
LM74CIBP-3CT-ND	3V, 12-Bit Digital Temperature Sensor	5-MicroSMD	2.51	1.87	1.38
LM74CIBP-3TR-ND	3V, 12-Bit Digital Temperature Sensor	5-MicroSMD	1036.80/1,000		
LM74CIBP-5CT-ND	5V, 12-Bit Digital Temperature Sensor	5-MicroSMD	2.51	1.87	1.38
LM74CIBP-5TR-ND	5V, 12-Bit Digital Temperature Sensor	5-MicroSMD	1036.80/1,000		
LM74CIM-3-ND	3V, 12-Bit Digital Temperature Sensor	8-SOIC	2.08	1.55	1.14
LM74CIM-5-ND	5V, 12-Bit Digital Temperature Sensor	8-SOIC	2.08	1.55	1.14
LM75CIM-3-ND	3V, Digital Temperature Sensor	8-SOIC	2.67	1.98	1.47
LM75CIM-5-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-SOIC	2.67	1.98	1.47
LM75CIMX-5TR-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-SOIC	2687.50/2,500		
LM75CIMM-3CT-ND	3.3V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	2.67	1.98	1.47
LM75CIMM-3TR-ND	3.3V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	1100.80/1,000		
LM75CIMM-5CT-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	2.67	1.98	1.47
LM75CIMM-5TR-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	1100.80/1,000		
LM76CHM-5-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.85	2.17	1.66
LM77CIM-3-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.36	1.75	1.30
LM77CIM-5-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.36	1.75	1.30
LM77CIMM-3CT-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	2.36	1.75	1.30
LM77CIMM-3TR-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	972.80/1,000		
LM78L05ACM-ND	5V, 100mA Positive Regulator	8-SOIC	.44	.32	.24
LM78L05ACMX-ND	5V, 100mA Positive Regulator	8-SOIC	280.00/2,500		
LM78L05ACZNS-ND	5V, 100mA Positive Regulator	TO-92	.50	.36	.27
LM78L05IBPCT-ND	3-Terminal Positive Regulator	8-MicroSMD	.63	.46	.33
LM78L05IBPTR-ND	3-Terminal Positive Regulator	8-MicroSMD	59.50/250		
LM78L09ACZ-ND	9V, 100mA Positive Regulator	TO-92	.45	.33	.24
LM78L12ACM-ND	12V, 100mA Positive Regulator	8-SOIC	.45	.33	.24
LM78L12ACMXTR-ND	12V, 100mA Positive Regulator	8-SOIC	287.00/2,500		
LM78L12ACZ-ND	12V, 0.1 Amp Voltage Regulator	TO-92	.45	.33	.24
LM78L15ACM-ND	15V, 100mA Positive Regulator	8-SOIC	.45	.33	.24
LM78L15ACMXTR-ND	15V, 100mA Positive Regulator	8-SOIC	287.00/2,500		
LM78L15ACZ-ND	15V, 0.1 Amp Positive Regulator	TO-92	.45	.33	.24
LM78L62ACZ-ND	6.2V, 100mA Positive Regulator	TO-92	1.14	.84	.61
LM78M05CTNS-ND	5V, 500mA Positive Regulator	TO-220	.72	.52	.38
LM78M05CDT-ND	3-Terminal Positive Regulator	TO-252	.81	.59	.43
LM78M12CH-ND	12V, 500mA Positive Regulator	TO-39	2.93	2.23	1.70
LM78M12CT-ND	12V, Positive Regulator	TO-220	.72	.52	.38
LM78M15CT-ND	15V, Positive Regulator	TO-220	.72	.52	.38
LM78M15CH-ND	15V, 500mA Positive Regulator	TO-39	2.93	2.23	1.70
LM78S40CN-ND	Universal Switching Regulator Subsystem	16-Dip	2.11	1.57	1.16
LM78S40N-ND	Universal Switching Regulator Subsystem, Industrial Temperature	16-Dip	2.29	1.71	1.26
LM79L05ACM-ND	5V, 100mA Negative Regulator	8-SOIC	.50	.36	.27
LM79L05ACMXTR-ND	5V, 100mA Negative Regulator	8-SOIC	287.00/2,500		
LM79L12ACM-ND	12V, 100mA Negative Regulator	8-SOIC	.45	.33	.24
LM79L12ACMXTR-ND	12V, 100mA Negative Regulator	8-SOIC	287.00/2,500		
LM79M05CT-ND	5V, 500mA Negative Voltage Regulator	TO-220	.77	.56	.40
LM79M12CT-ND	12V, 500mA Negative Voltage Regulator	TO-220	.77	.56	.40
LM79M15CT-ND	15V, 500mA Negative Voltage Regulator	TO-220	.77	.56	.40
LM80CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-5.75V	24-TSSOP	5.80	4.59	3.68
LM80CIMT-5-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor	24-TSSOP	5.80	4.59	3.68
LM81CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-5.75V	24-TSSOP	4.40	3.35	2.56
LM82CIMQA-ND	Triple-Diode Input and Local Digital Temp. Sensor with Two-Wire Interface	16-SSOP	4.28	3.25	2.48
LM83CIMQA-ND	Triple-Diode Input and Local Digital Temp. Sensor with Two-Wire Interface	16-SSOP	5.95	4.53	3.46
LM86CIMMCT-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	4.10	3.12	2.38
LM86CIMMTR-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	2066.40/1,000		
LM87CIMT-ND	Serial Interface System Hardware Monitor with Remote Diode Temperature Sensing	24-TSSOP	5.48	4.17	3.18
LM90CIMMCT-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	3.07	2.28	1.69
LM90CIMMTR-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	1267.20/1,000		
LM92CIM-ND	Temp. Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	4.05	3.08	2.35
LM108AH-ND	Precision Op Amp	TO-99	6.51	5.15	4.13
LM111H-ND	Voltage Comparator	TO-99	3.78	2.87	2.19
LM111J-8-ND	Voltage Comparator	8-CDip	4.63	3.52	2.69
LM113H-ND	Reference Diode	TO-46	9.03	7.74	6.87
LM117H-ND	500mA Positive Adjustable Voltage Regulator	TO-39	7.94	6.28	5.03
LM117K STEEL-ND	Positive Adjustable Voltage Regulator	TO-3	8.67	6.86	5.50
LM120H-5.0-ND	1.5A, 3-Terminal Negative Voltage Regulator	TO-39	9.24	7.92	7.03
LM124AJ-ND	Low Power Quad Op Amp	14-CDip	6.09	4.82	3.86
LM124J-ND	Low Power Quad Op Amp	14-CDip	2.65	2.02	1.54
LM135AH-ND	Precision Temperature Sensor	TO-46	16.85	14.45	12.81
LM135H-ND	Precision Temperature Sensor	TO-46	9.83	7.77	6.23
LM136AH-2.5-ND	2.5V, Reference Diode	TO-46	10.22	8.76	7.77
LM136H-2.5-ND	2.5V, Reference Diode	TO-46	9.39	7.43	5.95
LM136H-5.0-ND	5V, Reference Diode	TO-46	10.08	7.97	6.39
LM137H-ND	.5A, 3-Terminal Negative Voltage Regulator	TO-39	13.25	11.36	10.07

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM139J-ND	Low Power Low Offset Quad Comp.	14-CDip	2.79	2.07	1.53
LM140K-5.0-ND	.5V, Ser. 3-Terminal Positive Regulator	TO-3	7.22	5.72	4.58
LM140K-12-ND	12V, 1.5A Positive Voltage Regulator	TO-3	7.22	5.72	4.58
LM140LAH-5.0-ND	5V, Ser., 3-Terminal Positive Regulator	TO-39	6.10	4.64	3.54
LM140LAH-12-ND	12V, 100mA Positive Voltage Regulator	TO-39	6.10	4.64	3.54
LM148J-ND	Quad 741 Op Amp	14-CDip	2.98	2.27	1.73
LM150K STEEL-ND	3A, Positive Adjustable Voltage Regulator	TO-3	14.44	12.38	10.98
LM158AH-ND	Low Power Dual Op Amp	TO-99	7.67	6.06	4.86
LM158H-ND	Low Power Dual Op Amp	TO-99	4.83	3.67	2.80
LM185BH-ND	Adjustable Micropower Voltage Reference	TO-46	12.78	10.95	9.71
LM185H-2.5-ND	Micropower Voltage Reference Diode	TO-46	9.39	7.43	5.95
LM193H-ND	Low Power Offset Voltage Dual Comparator	TO-99	5.15	3.92	2.99
LM219J-ND	High Speed Dual Comparator	14-CDip	6.09	4.82	3.86
LM224J-ND	Low Power Quad Op Amp	14-CDip	2.57	1.91	1.42
LM231AN-ND	Precision Voltage-to-Frequency Converter	8-Dip	7.69	6.08	4.87
LM231N-ND	Precision Voltage-to-Frequency Converter	8-Dip	5.82	4.60	3.69
LM234Z-3-ND	Adjustable Current Source/Temperature Sensor	TO-92	3.05	2.32	1.77
LM234Z-6-ND	Adjustable Current Source/Temperature Sensor	TO-92	1.95	1.45	1.08
LM235AH-ND	Precision Temperature Sensor	TO-46	10.83	9.29	8.24
LM235H-ND	Precision Temperature Sensor	TO-46	7.52	5.95	4.77
LM236AH-2.5-ND	2.5V, (1%) Voltage Reference	TO-46	7.22	5.72	4.58
LM236AH-5.0-ND	5V, Reference Diode	TO-46	6.20	4.90	3.93
LM236H-2.5-ND	2.5V, Reference Diode	TO-46	4.65	3.54	2.70
LM239J-ND	High Performance Quad Comparator	14-CDip	2.17	1.61	1.19
LM285BXZ-ND	Adjustable Micropower Voltage Reference	TO-92	2.58	1.96	1.50
LM285BYM-ND	Adjustable Micropower Voltage Reference	8-SOIC	2.70	2.01	1.48
LM285BYZ-ND	Micropower Adjustable Voltage Reference	TO-92	2.57	1.91	1.42
LM285BYZ-1.2-ND	1.2V, Micropower Voltage Reference	TO-92	2.57	1.91	1.42
LM285BYZ-2.5-ND	2.5V, Reference Diode	TO-92	2.57	1.91	1.42
LM285M-ND	Micropower Adjustable Voltage Reference	8-SOIC	1.16	.86	.62
LM285MXTR-ND	Micropower Adjustable Voltage Reference	8-SOIC	988.13/2,500		
LM285M-1.2-ND	1.2V, Reference Diode	8-SOIC	1.16	.86	.62
LM285M-2.5-ND	Micropower Voltage Reference Diode	8-SOIC	1.16	.86	.62
LM285MX-2.5TR-ND	Micropower Voltage Reference Diode	8-SOIC	988.13/2,500		
LM285Z-ND	Adjustable Micropower Voltage Reference	TO-92	1.13	.83	.60
LM285Z-1.2-ND	Micropower Voltage Reference Diode	TO-92	1.13	.83	.60
LM285Z-2.5-ND	2.5V, Reference Diode	TO-92	1.13	.83	.60
LM301AH-ND	General Purpose Op Amp	TO-99	2.58	1.96	1.50
LM301AN-ND	General Purpose Op Amp	8-Dip	1.20	.88	.64
LM308AH-ND	General Purpose Op Amp	TO-99	3.60	2.74	2.09
LM308H-ND	Super Gain Op Amp	TO-99	3.45	2.63	2.01
LM309H-ND	5V Voltage Regulator	TO-39	4.55	3.46	2.64
LM309K STEEL-ND	+5V, 1.5A Voltage Regulator	TO-3	6.03	4.58	3.50
LM311H-ND	Voltage Comparator	TO-99	2.58	1.96	1.50
LM311MNS-ND	Voltage Comparator	8-SOIC	.58	.42	.31
LM311MXTR-ND	Voltage Comparator	8-SOIC	367.50/2,500		
LM311NNS-ND	High Performance Voltage Comparator	8-Dip	.61	.44	.32
LM313H-ND	Precision Reference, 2-Pin	TO-18	7.08	5.60	4.49
LM317AEMPCT-ND	3-Terminal Adjustable Regulator	SOT-223	1.76	1.30	.94
LM317AEMPTR-ND	3-Terminal Adjustable Regulator	SOT-223	611.00/1,000		
LM317AEMPXTR-ND	3-Terminal Adjustable Regulator	SOT-223	1222.00/2,000		
LM317AH-ND	500mA Positive Adjustable Voltage Regulator	TO-39	4.88	3.71	2.83
LM317AT-ND	1.5A, Positive Adjustable Voltage Regulator	TO-220	1.50	1.10	.80
LM317EMPCT-ND	1A, Positive Adjustable Voltage Regulator	SOT-223	1.13	.83	.60
LM317EMPTR-ND	1A, Positive Adjustable Voltage Regulator	SOT-223	390.00/1,000		
LM317H-ND	500mA, Positive Adjustable Voltage Regulator	TO-39	3.45	2.63	2.01
LM317HVH-ND	High Voltage 500mA, Adjustable Voltage Regulator	TO-39	8.23	6.51	5.22
LM317HVK STEEL-ND	High Voltage 1.5A, Adjustable Voltage Regulator	TO-3	7.94	6.28	5.03
LM317HVT-ND	High Voltage 1.5A, Adjustable Voltage Regulator	TO-220	2.79	2.07	1.53
LM317K STEEL-ND	1.5A, Positive Adjustable Voltage Regulator	TO-3	4.98	3.79	2.89
LM317LM-ND	100mA, Positive Adjustable Voltage Regulator	8-SOIC	.58	.42	.31
LM317LMXTR-ND	100mA, Positive Adjustable Voltage Regulator	8-SOIC	367.50/2,500		
LM317LZ-ND	100mA, Positive Adjustable Voltage Regulator	TO-92	.52	.38	.28
LM317MDT-ND	3-Terminal Adjustable Regulator	TO-252	.81	.59	.43
LM317S-ND	3-Terminal Adjustable Regulator	TO-263	1.13	.83	.60
LM317SXTR-ND	3-Terminal Adjustable Regulator	TO-263	199.50/500		
LM317TNS-ND	1.5A, Positive Adjustable Voltage Regulator	TO-220	.74	.54	.39
LM318H-ND	High Slew Rate Op Amp	TO-99	3.45	2.63	2.01
LM318M-ND	High Slew Rate Op Amp	8-SOIC	1.39	1.02	.74
LM318N-ND	High Slew Rate Op Amp	8-Dip	1.50	1.10	.80
LM319AM-ND	High Speed Dual Comparator	14-SOIC	1.69	1.24	.90
LM319H-ND	High Speed Dual Comparator	TO-100	3.60	2.74	2.09
LM319M-ND	High Speed Dual Comparator	14-SOIC	.98	.72	.52
LM319MXTR-ND	High Speed Dual Comparator	14-SOIC	828.75/2,500		
LM319N-ND	High Speed Dual Comparator	14-Dip	.98	.72	.52
LM320H-5.0-ND	.5A, 3-Terminal Negative Voltage Regulator	TO-39	5.63	4.45	3.57
LM320K-15-ND	–15V, 1.5A Voltage Regulator	TO-3	7.22	5.72	4.58
LM320LZ-5.0-ND	5V, 0.1A Negative Voltage Regulator	TO-92	.47	.34	.25
LM320LZ-12-ND	12V, 0.1A Negative Voltage Regulator	TO-92	.47	.34	.25
LM320LZ-15-ND	15V, 0.1A Negative Voltage Regulator	TO-92	.47	.34	.25
LM320T-5.0-ND	5V, 1.5A 3-Terminal Negative Regulator	TO-220	1.92	1.43	1.06
LM320T-12-ND	12V, 1.5A 3-Terminal Negative Voltage Regulator	TO-220	1.92	1.43	1.06
LM320T-15-ND	15V, 1.5A 3-Terminal Negative Voltage Regulator	TO-220	1.92	1.43	1.06
LM323AK STEEL-ND	5V, 3A Positive Voltage Regulator	TO-3	6.07	4.80	3.85
LM323K STEEL-ND	5V, 3A Positive Voltage Regulator	TO-3	4.30	3.27	2.50
LM324AMNS-ND	Low Power Quad Op Amp	14-SOIC	.55	.40	.29
LM324AMXTR-ND	Low Power Quad Op Amp	14-SOIC	350.00/2,500		
LM324ANNS-ND	Low Power Quad Op Amp	14-Dip	.54	.39	.29
LM324MNS-ND	Low Power Quad Op Amp	14-SOIC	.46	.35	.26
LM324MT-ND	Low Power Quad Op Amp	14-TSSOP	.63	.46	.33
LM324MX-ND	Low Power Quad Op Amp	14-SOIC	297.50/2,500		
LM324NNS-ND	Low Power Quad Op Amp	14-Dip	.49	.38	.27
LM329BZNS-ND	Precision Reference	TO-92	2.50	1.90	1.45
LM329CZ-ND	Precision Reference	TO-92	2.33	1.73	1.28
LM329DZ-ND	6.9V Precision Zener 100ppm/°C	TO-92	1.13	.83	.60
LM330T-5.0-ND	3-Terminal Positive Regulator	TO-220	1.69	1.24	.90
LM331AN-ND	Precision Voltage-to-Frequency Converter	8-Dip	6.89	5.45	4.37
LM331N-ND	Precision Voltage-to-Frequency Converter	8-Dip	2.68	2.04	1.56
LM333K STEEL-ND	3A Negative Adjustable Voltage Regulator	TO-3	9.87	8.46	7.51
LM334H-ND	3-Terminal Adjustable Current Source	TO-46	3.60	2.74	2.09
LM334M-ND	3-Terminal Adjustable Current Source	8-SOIC	1.35	.99	.72
LM334MXTR-ND	3-Terminal Adjustable Current Source	8-SOIC	1147.50/2,500		
LM334SM-ND	3-Terminal Adjustable Current Source	8-SOIC	2.65	2.02	1.54
LM334ZNS-ND	3-Terminal Adjustable Current Source	TO-92	1.43	1.05	.76
LM335AH-ND	Precision Temperature Sensor	TO-46	7.22	5.72	4.58
LM335AM-ND	Precision Temperature Sensor	8-SOIC	1.83	1.36	1.01
LM335AZ-ND	Precision Temperature Sensor	TO-92	1.83	1.36	1.01
LM335H-ND	Precision Temperature Sensor	TO-46	3.45	2.63	2.01
LM335M-ND	Precision Temperature Sensor	8-SOIC	1.43	1.05	.76
LM335Z-ND	Voltage Mode Temperature Sensor	TO-92	1.54	1.13	.82
LM336BM-2.5-ND	2.5V, Reference Diode	8-SOIC	2.05	1.52	1.13
LM336BM-5.0-ND	5V, Reference Diode	8-SOIC	2.05	1.52	1.13
LM336BZ-2.5-ND	2.5V, Reference Diode	TO-92	1.71	1.27	.94
LM336BZ-5.0-ND	5V, Reference Diode	TO-92	1.71	1.27	.94
LM336M-2.5-ND	2.5V, Reference Diode	8-SOIC	.99	.73	.53
LM336MX-2.5TR-ND	2.5V, Reference Diode	8-SOIC	844.69/2,500		
LM336M-5.0-ND	5.0V, Reference Diode	8-SOIC	.99	.73	.53
LM336Z-2.5NS-ND	2.5V, Reference Diode	TO-92	.99	.73	.53
LM336Z-5.0-ND	5.0V, Reference Diode	TO-92	.99	.73	.53
LM337H-ND	500mA Negative Adjustable Voltage Regulator	TO-39	3.95	3.01	2.30
LM337HVH-ND	500mA Negative Adjustable Regulator (High Volt)	TO-39	10.10	7.99	6.40
LM337HVK STEEL-ND	1.5A Negative Adjustable Regulator (High Volt)	TO-3	11.43	9.80	8.69
LM337IMPCT-ND	1A Negative Adjustable Voltage Regulator	SOT-223	1.35	.99	.72
LM337IMPTR-ND	1A Negative Adjustable Voltage Regulator	SOT-223	468.00/1,000		
LM337K STEEL-ND	1.5A Negative Adjustable Voltage Regulator	TO-3	5.50	4.18	3.19
LM337LM-ND	100mA Negative Adjustable Voltage Regulator	8-SOIC	.98	.72	.52
LM337LMXTR-ND	100mA Negative Adjustable Voltage Regulator	8-SOIC	828.75/2,500		
LM337LZ-ND	100mA Negative Adjustable Voltage Regulator	TO-92	.98	.72	.52
LM337TNS-ND	1.5A Negative Adjustable Voltage Regulator	TO-220	.94	.69	.50
LM338K STEEL-ND	5A Adjustable Positive Regulator	TO-3	6.03	4.58	3.50
LM338T-ND	5A Adjustable Positive Regulator	TO-220	2.11	1.57	1.16
LM339AMXTR-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	350.00/2,500		
LM339ANNS-ND	Low Power Low Offset Voltage Quad Comparator	14-Dip	.54	.39	.29
LM339AM-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	.55	.40	.29
LM339MNS-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	.46	.35	.26
LM339MX-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	297.50/2,500		
LM339NNS-ND	High Performance Quad Comparator	14-Dip	.49	.38	.27
LM340AT-5.0-ND	5V, 1.0 Amp Positive Voltage Regulator	TO-220	1.65	1.21	.88
LM340K-5.0-ND	5V, 1.0 Amp Positive Voltage Regulator	TO-3	5.33	4.22	3.38
LM340K-12-ND	12V, 1.0 Amp Positive Voltage Regulator	TO-3	5.33	4.22	3.38
LM340K-15-ND	15V, 1.0 Amp Positive Voltage Regulator	TO-3	5.33	4.22	3.38
LM340LAH-5.0-ND	5V, 100mA Positive Voltage Regulator	TO-39	3.10	2.36	1.80
LM340LAH-12-ND	12V, 100mA Positive Voltage Regulator	TO-39	2.93	2.23	1.70
LM340LAZ-5.0-ND	5V, 100mA Positive Voltage Regulator	TO-92	1.16	.86	.62
LM340LAZ-12-ND	12V, 100mA Positive Voltage Regulator	TO-92	1.16	.86	.62
LM340MP-5.0CT-ND	5V, 1A Voltage Regulator	SOT-223	1.01	.75	.54
LM340MP-5.0TR-ND	5V, 1A Voltage Regulator	SOT-223	351.00/1,000		
LM340S-5.0-ND	5V, Series 3-Terminal Positive Regulator	TO-263	1.76	1.30	.94
LM340SX-5.0TR-ND	5V, Series 3-Terminal Positive Regulator	TO-263	325.00/500		
LM340S-12-ND	12V, Series 3-Terminal Positive Regulator	TO-263	1.76	1.30	.94
LM340T-5.0-ND	5V, 1.0A Positive Voltage Regulator (7805)	TO-220	.90	.65	.47
LM340T-12-ND	12V, 1.0A Positive Voltage Regulator (7812)	TO-220	.90	.65	.47
LM340T-15-ND	15V, 1.0A Positive Voltage Regulator (7815)	TO-220	.90	.65	.47
LM341T-5.0-ND	5V, 500mA Voltage Regulator	TO-220	.72	.52	.38
LM341T-15-ND	15V, 500mA Voltage Regulator	TO-220	.72	.52	.38
LM346M-ND	Programmable Quad Op Amp	16-SOIC	1.86	1.38	1.02
LM348M-ND	Quad 741 Operational Amp	14-SOIC	.72	.52	.38
LM348NNS-ND	Quad 741 Operational Amp	14-Dip	.77	.56	.40
LM350AT-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-220	4.00	3.04	2.32
LM350K STEEL-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-3	6.03	4.58	3.50
LM350TNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-220	2.29	1.71	1.26
LM358AMNS-ND	Low Power Dual Op Amp	8-SOIC	.55	.40	.29
LM358AMXTR-ND	Low Power Dual Op Amp	8-SOIC	350.00/2,500		
LM358ANNS-ND	Low Power Dual Op Amp (Elect. Improv.)	8-Dip	.54	.39	.29
LM358BPCT-ND	Low Power Dual Op Amp	8-MicroSMD	.63	.46	.33
LM358BPTR-ND	Low Power Dual Op Amp	8-MicroSMD	59.50/250		
LM358MNS-ND	Low Power Dual Op Amp	8-SOIC	.42	.33	.24
LM358MX-ND	Low Power Dual Op Amp	8-SOIC	276.25/2,500		
LM358NNS-ND	Low Power Dual Op Amp	8-Dip	.59	.45	.33
LM359M-ND	Dual, Hi Spd. Programmable Current Mode (Norton) Amp	14-SOIC	2.75	2.09	1.60
LM359N-ND	High Speed Norton Op Amp	14-Dip	2.75	2.09	1.60
LM360H-ND	High Speed Differential Comparator	TO-99	5.68	4.32	3.30
LM360M-ND	High Speed Differential Comparator	8-SOIC	4.25	3.23	2.47
LM360N-ND	High Speed Differential Comparator	8-Dip	4.25	3.23	2.47
LM361M-ND	High Speed Differential Comparator	14-SOIC	2.70	2.06	1.57
LM361N-ND	High Speed Differential Comparator	14-Dip	2.75	2.09	1.60
LM380N-ND	2.5 Watt Audio Power Amplifier	14-Dip	1.69	1.24	.90
LM380N-8-ND	2.5 Watt Audio Amplifier	8-Dip	1.50	1.10	.80
LM384N-ND	5 Watt Audio Amplifier	14-Dip	1.71	1.27	.94
LM385BM-ND	Adj. Micropower Voltage Reference	8-SOIC	1.01	.75	.54
LM385BM-1.2-ND	1.2V, Reference Diode 150ppm/°C	8-SOIC	1.01	.75	.54
LM385BMX-1.2TR-ND	1.2V, Reference Diode 150ppm/°C	8-SOIC	860.63/2,500		
LM385BM-2.5-ND	2.5V, Reference Diode 150ppm/°C	8-SOIC	1.01	.75	.54
LM385BMX-2.5TR-ND	2.5V, Reference Diode 150ppm/°C	8-SOIC	860.63/2,500		
LM385BXM-2.5-ND	2.5V, Micropower Voltage Reference Diode	8-SOIC	2.85	2.12	1.57
LM385BXZ-ND	Adjustable Micropower Voltage Reference Diode	TO-92	2.76	2.05	1.52
LM385BXZ-2.5-ND	2.5V, Reference Diode 30ppm/°C	TO-92	2.76	2.05	1.52
LM385BYM-1.2-ND	1.2V, Micropower Voltage Reference Diode	8-SOIC	2.29	1.71	1.26
LM385BYZ-1.2-ND	1.2V, Precision Voltage Reference 50ppm/°C	TO-92	2.20	1.64	1.21
LM385BYZ-2.5-ND	2.5V, Precision Voltage Reference 50ppm/°C	TO-92	2.20	1.64	1.21
LM385BYZ-ND	Adjustable Reference Diode	TO-92	2.20	1.64	1.21
LM385BZ-ND	Adjustable Micropower Voltage Reference Diode	TO-92	.98	.72	.52
LM385BZ-1.2NS-ND	Micropower Voltage Reference Diode	TO-92	.98	.72	.52
LM385BZ-2.5NS-ND	2.5V, Voltage Reference Diode	TO-92	.98	.72	.52
LM385M-ND	Adjustable Voltage Reference Diode	8-SOIC	.86	.62	.45
LM385MXTR-ND	Adjustable Voltage Reference Diode	8-SOIC	631.75/2,500		
LM385M-1.2-ND	1.2V, Voltage Reference Diode	8-SOIC	.86	.62	.45
LM385MX-1.2TR-ND	1.2V, Voltage Reference Diode	8-SOIC	631.75/2,500		
LM385M-2.5-ND	2.5V, Voltage Reference Diode 150ppm/°C	8-SOIC	.86	.62	.45
LM385MX-2.5TR-ND	2.5V, Voltage Reference Diode 150ppm/°C	8-SOIC	631.75/2,500		
LM385M3-2.5CT-ND	2.5V, Micropower Voltage Reference Diode	SOT-23	1.20	.88	.64
LM385M3-2.5TR-ND	2.5V, Micropower Voltage Reference Diode	SOT-23	416.00/1,000		
LM385M3X-2.5CT-ND	2.5V, Voltage Reference Diode	SOT-23	1.20	.88	.64
LM385M3X-2.5TR-ND	2.5V, Voltage Reference Diode	SOT-23	1224.00/3,000		
LM385Z-ND	Adjustable Voltage Reference Diode	TO-92	.81	.59	.43
LM385Z-1.2NS-ND	1.2V, Voltage Reference Diode	TO-92	.77	.56	.40
LM385Z-2.5NS-ND	2.5V, Voltage Reference Diode	TO-92	.77	.56	.40
LM386M-1-ND	Low Voltage Audio Power Amp	8-SOIC	.58	.42	.31
LM386MM-1CT-ND	Low Voltage Audio Amp	8-MSOP	.74	.54	.39
LM386MM-1TR-ND	Low Voltage Audio Amp	8-MSOP	231.00/1,000		

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM386N-1-ND	Low Voltage Audio Power Amp, Vs=6V	8-Dip	.61	.44	.32
LM386N-3-ND	Low Voltage Audio Power Amp, Vs=9V	8-Dip	.95	.69	.50
LM386N-4-ND	Low Voltage Audio Power Amp, Vs=16V	8-Dip	.94	.69	.50
LM392M-ND	Single Op Amp and Comparator	8-SOIC	1.69	1.24	.90
LM392MXTR-ND	Single Op Amp and Comparator	8-SOIC	1434.38/2,500		
LM392N-ND	Op Amp and Comparator	8-Dip	1.69	1.24	.90
LM393MNS-ND	Low Power Low Offset Voltage Dual Comparator	8-SOIC	.42	.33	.24
LM393MXTR-ND	Low Power Low Offset Voltage Dual Comparator	8-SOIC	276.25/2,500		
LM393NNS-ND	Dual Comparator	8-Dip	.59	.45	.33
LM394CH-ND	Super Matched NPN Pairs	TO-5	5.92	4.69	3.76
LM395T-ND	Ultra Reliable High Gain Power Transistor	TO-220	3.38	2.57	1.96
LM399H-ND	Precision Reference	TO-46	4.48	3.41	2.60
LM431ACM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.48	.37	.27
LM431ACMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	314.50/2,500		
LM431ACM3XCT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.48	.35	.26
LM431ACM3XTR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	365.40/3,000		
LM431ACZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.48	.37	.27
LM431AIBPCT-ND	Adjustable Precision Zener Shunt Regulator	4-MicroSMD	.61	.44	.32
LM431AIBPTR-ND	Adjustable Precision Zener Shunt Regulator	4-MicroSMD	57.75/250		
LM431AIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.58	.43	.31
LM431AIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	159.00/1,000		
LM431AIMXCT-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.48	.35	.26
LM431AIMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	304.50/2,500		
LM431AIZ-ND	Adjustable Precision Zener Shunt Regulator, Ind. Temp	TO-92	.48	.35	.26
LM431BCM-ND	Adjustable Precision Zener Shunt Regulator	SOT-8	.53	.39	.29
LM431BCM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.54	.39	.29
LM431BCM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	168.00/1,000		
LM431BCZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.53	.39	.29
LM431BIM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.54	.39	.29
LM431BIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.60	.44	.32
LM431BIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	187.60/1,000		
LM431BIZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.54	.39	.29
LM431CCM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	1.01	.74	.54
LM431CCM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	348.40/1,000		
LM431CCZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.96	.71	.52
LM431CIM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	1.06	.78	.57
LM431CIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	1.11	.82	.59
LM431CIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	383.50/1,000		
LM431CIZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	1.06	.78	.57
LM555CM-ND	Timer	8-SOIC	.47	.34	.25
LM555CMXTR-ND	Timer	8-SOIC	297.50/2,500		
LM555CMMCT-ND	Timer	8-MSOP	.68	.49	.36
LM555CMMTR-ND	Timer	8-MSOP	210.00/1,000		
LM555CNNS-ND	Timer	8-Dip	.50	.36	.27
LM556CM-ND	Dual Timer	14-SOIC	.77	.56	.40
LM556CMXTR-ND	Dual Timer	14-SOIC	565.25/2,500		
LM556CN-ND	Timer	14-Dip	.81	.59	.43
LM565CN-ND	Phase Lock Loop	14-Dip	1.77	1.32	.97
LM567CM-ND	Tone Decoder Phase Lock Loop	8-SOIC	.77	.56	.40
LM567CMXTR-ND	Tone Decoder Phase Lock Loop	8-SOIC	565.25/2,500		
LM567CN-ND	Tone Decoder Phase Lock Loop	8-Dip	.77	.56	.40
LM611CM-ND	Op Amp and Adjustable Reference	14-SOIC	2.15	1.60	1.18
LM611IM-ND	Op Amp and Adjustable Reference	14-SOIC	2.42	1.80	1.33
LM613IWM-ND	Dual Op Amp, Dual Comparator and Adjustable Reference	16-SOIC	2.83	2.15	1.64
LM614CWM-ND	Quad Op Amp with Adjustable Reference	16-SOIC	2.53	1.92	1.47
LM628N-6-ND	Precision Motion Controller, 6MHz	28-Dip	24.75	23.10	21.45
LM628N-8-ND	Precision Motion Controller, 8MHz	28-Dip	39.15	36.54	33.93
LM629M-6-ND	Precision Motion Controller, 6MHz	24-SOIC	24.75	23.10	21.45
LM629M-8-ND	Precision Motion Controller, 8MHz	24-SOIC	39.15	36.54	33.93
LM629N-6-ND	Precision Motion Controller, 6MHz	28-Dip	24.75	23.10	21.45
LM629N-8-ND	8-Bit PWM Motion Controller	28-Dip	39.15	36.54	33.93
LM675T-ND	Power Operational Amplifier	5-Pin TO-220	5.68	4.32	3.30
LM709CH-ND	General Purpose Op Amp	TO-99	3.95	3.01	2.30
LM709H-ND	General Purpose Op Amp	TO-99	4.83	3.67	2.80
LM723CH-ND	150mA Positive Adjustable Voltage Regulator	TO-99	2.77	2.06	1.52
LM723CN-ND	Precision Voltage Regulator	14-Dip	.94	.69	.50
LM723H-ND	2V-37V, Adjustable Voltage Regulator	TO-100	4.05	3.08	2.35
LM725CH-ND	Instrumentation Op Amp	TO-99	4.98	3.79	2.89
LM725CN-ND	Instrumentation Op Amp	8-Dip	2.63	2.00	1.53
LM741CH-ND	18V, High Performance Op Amp	TO-99	3.10	2.36	1.80
LM741CNNS-ND	18V, High Performance Op Amp	8-Dip	.47	.34	.25
LM741H-ND	High Performance Op Amp High Temp	TO-99	3.95	3.01	2.30
LM747H-ND	Dual High Performance Op Amp Low Offset	TO-100	4.13	3.14	2.40
LM809M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	.95	.69	.50
LM809M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	294.00/1,000		
LM809M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	.95	.69	.50
LM809M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	294.00/1,000		
LM809M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	.95	.69	.50
LM809M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	294.00/1,000		
LM809M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	.95	.69	.50
LM809M3-4.00TR-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	294.00/1,000		
LM809M3-4.38CT-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	.95	.69	.50
LM809M3-4.38TR-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	294.00/1,000		
LM809M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	.95	.69	.50
LM809M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	294.00/1,000		
LM810M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	.95	.69	.50
LM810M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	294.00/1,000		
LM810M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	.95	.69	.50
LM810M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	294.00/1,000		
LM810M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	.95	.69	.50
LM810M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	294.00/1,000		
LM810M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	.95	.69	.50
LM810M3-4.00TR-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	294.00/1,000		
LM810M3-4.38CT-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	.95	.69	.50
LM810M3-4.38TR-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	294.00/1,000		
LM810M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	.95	.69	.50
LM810M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	294.00/1,000		
LM828M5CT-ND	Switched Capacitor Voltage Converter	SOT-23-5	1.13	.83	.60
LM828M5TR-ND	Switched Capacitor Voltage Converter	SOT-23-5	390.00/1,000		
LM828M5XTR-ND	Switched Capacitor Voltage Converter	SOT-23-5	1147.50/3,000		
LM833M-ND	Dual Audio Op Amp	8-SOIC	.94	.69	.50
LM833MXTR-ND	Dual Audio Op Amp	8-SOIC	796.88/2,500		
LM833MMCT-ND	Dual Audio Op Amp	8-MSOP	1.13	.83	.60
LM833MMTR-ND	Dual Audio Op Amp	8-MSOP	390.00/1,000		
LM833N-ND	Dual Audio Op Amp	8-Dip	.98	.72	.52
LM837M-ND	Low Noise Quad Op Amp	14-SOIC	1.55	1.15	.85
LM837MXTR-ND	Low Noise Quad Op Amp	14-SOIC	1562.50/2,500		
LM837N-ND	Low Noise Quad Op Amp	14-Dip	1.55	1.15	.85
LM1036M-ND	Tone/Volume/Balance Circuit	20-SOIC	2.82	2.10	1.55
LM1036N-ND	Dual DC Oper. Tone/Volume/Balance Circuit	20-Dip	2.82	2.10	1.55
LM1084IS-ADJ-ND	Adjustable Voltage 5A Low Dropout Positive Regulator	TO-263	2.14	1.59	1.18
LM1084IS-3.3-ND	3.3V, 5A LDO Positive Regulator	TO-263	2.14	1.59	1.18
LM1084IS-5.0-ND	5V, 5A LDO Positive Regulator	TO-263	2.14	1.59	1.18
LM1084IS-12-ND	12V, 5A LDO Positive Regulator	TO-263	2.14	1.59	1.18
LM1084IT-ADJ-ND	Adjustable Voltage 5A LDO Positive Regulator	TO-220	2.14	1.59	1.18
LM1084IT-3.3-ND	3.3V, 5A LDO Positive Regulator	TO-220	2.14	1.59	1.18
LM1084IT-5.0-ND	5V, 5A LDO Positive Regulator	TO-220	2.14	1.59	1.18
LM1084IT-12-ND	12V, 5A LDO Positive Regulator	TO-220	2.14	1.59	1.18
LM1085IS-ADJ-ND	Adjustable Voltage 3A Low Dropout Positive Regulator	TO-263	1.55	1.15	.85
LM1085IS-3.3-ND	3.3V, 3A LDO Positive Regulator	TO-263	1.55	1.15	.85
LM1085IS-5.0-ND	5V, 3A LDO Positive Regulator	TO-263	1.55	1.15	.85
LM1085IS-12-ND	12V, 3A LDO Positive Regulator	TO-263	1.55	1.15	.85
LM1085IT-ADJ-ND	Adjustable Voltage 3A LDO Positive Regulator	TO-220	1.55	1.15	.85
LM1085IT-3.3-ND	3.3V, 3A LDO Positive Regulator	TO-220	1.55	1.15	.85
LM1085IT-5.0-ND	5V, 3A LDO Positive Regulator	TO-220	1.55	1.15	.85
LM1085IT-12-ND	12V, 3A LDO Positive Regulator	TO-220	1.55	1.15	.85
LM1086CS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-263	1.31	.97	.70
LM1086CS-2.5-ND	2.5V, 1.5A LDO Positive Regulator	TO-263	1.31	.97	.70
LM1086CS-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-263	1.31	.97	.70
LM1086CS-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	1.31	.97	.70
LM1086CS-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-263	1.31	.97	.70
LM1086CT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-220	1.31	.97	.70
LM1086CT-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-220	1.31	.97	.70
LM1086CT-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-220	1.31	.97	.70
LM1086CT-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-220	1.31	.97	.70
LM1086IS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-263	1.54	1.13	.82
LM1086IS-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	1.54	1.13	.82
LM1086IS-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-263	1.54	1.13	.82
LM1086IT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-220	1.54	1.13	.82
LM1086IT-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-220	1.54	1.13	.82
LM1086IT-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-220	1.54	1.13	.82
LM1086IT-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-220	1.54	1.13	.82
LM1117DT-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator	TO-252	.90	.65	.47
LM1117DT-2.5-ND	2.5V, 800mA LDO Linear Regulator	TO-252	.90	.65	.47
LM1117DT-2.85-ND	2.85V, 800mA LDO Linear Regulator	TO-252	.90	.65	.47
LM1117DT-3.3-ND	3.3V, 800mA LDO Linear Regulator	TO-252	.90	.65	.47
LM1117DT-5.0-ND	5V, 800mA LDO Linear Regulator	TO-252	.90	.65	.47
LM1117DTX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator	TO-252	665.00/2,500		
LM1117IDT-3.3-ND	3.3V, 800mA LDO Linear Regulator	TO-252	.95	.69	.50
LM1117IDT-5.0-ND	5.0V, 800mA LDO Linear Regulator	TO-252	.95	.69	.50
LM1117IMP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	1.08	.78	.57
LM1117IMP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	336.00/1,000		
LM1117IMP-3.3CT-ND	3.3V, 800mA LDO Linear Regulator	SOT-223	1.08	.78	.57
LM1117IMP-3.3TR-ND	3.3V, 800mA LDO Linear Regulator	SOT-223	336.00/1,000		
LM1117IMP-5.0CT-ND	5.0V, 800mA LDO Linear Regulator	SOT-223	1.08	.78	.57
LM1117IMP-5.0TR-ND	5.0V, 800mA LDO Linear Regulator	SOT-223	336.00/1,000		
LM1117MP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	.81	.59	.43
LM1117MP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	252.00/1,000		
LM1117MP-1.8CT-ND	1.8V, 800mA LDO Linear Regulator	SOT-223	.81	.59	.43
LM1117MP-1.8TR-ND	1.8V, 800mA LDO Linear Regulator	SOT-223	252.00/1,000		
LM1117MP-2.85CT-ND	2.85V, 800mA LDO Linear Regulator	SOT-223	.81	.59	.43
LM1117MP-2.85TR-ND	2.85V, 800mA LDO Linear Regulator	SOT-223	252.00/1,000		
LM1117MP-3.3CT-ND	3.3V, 800mA Low Dropout Regulator	SOT-223	.81	.59	.43
LM1117MP-3.3TR-ND	3.3V, 800mA Low Dropout Regulator	SOT-223	252.00/1,000		
LM1117MP-5.0CT-ND	5V, 800mA LDO Linear Regulator	SOT-223	.81	.59	.43
LM1117MP-5.0TR-ND	5V, 800mA LDO Linear Regulator	SOT-223	252.00/1,000		
LM1117MPX-2.5CT-ND	2.5V, 800mA LDO Linear Regulator *NEW!*	SOT-223	.81	.59	.43
LM1117MPX-2.5TR-ND	2.5V, 800mA LDO Linear Regulator	SOT-223	504.00/2,000		
LM1117MPX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator	SOT-223	504.00/2,000		
LM1117MPX-5.0TR-ND	5V, 800mA LDO Linear Regulator	SOT-223	504.00/2,000		
LM1117S-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator	TO-263	1.28	.94	.68
LM1117T-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator	TO-220	1.16	.86	.62
LM1117T-2.85-ND	2.85V, 800mA LDO Linear Regulator	TO-220	1.16	.86	.62
LM1117T-3.3-ND	3.3V, 800mA LDO Linear Regulator	TO-220	1.16	.86	.62
LM1117T-5.0-ND	5V, 800mA LDO Linear Regulator	TO-220	1.16	.86	.62
LM1279AN-ND	110MHz RGB Video Amp System with OSD	20-Dip	2.05	1.52	1.13
LM1283N-ND	140MHz RGB Video Amp System with OSD	28-Dip	3.00	2.28	1.74
LM1458M-ND	Dual Op Amp	8-SOIC	.47	.34	.25
LM1458MXTR-ND	Dual Op Amp	8-SOIC	297.50/2,500		
LM1458NNS-ND	Dual Op Amp	8-Dip	.50	.36	.27
LM1815N-ND	Adaptive Variable Reluctance Sensor Amplifier	14-Dip	3.75	2.85	2.18
LM1875T-ND	20W Audio Power Amp	TO-220-5	2.57	1.91	1.42
LM1876TF-ND	Dual 20W Audio Power Amp with Mute/Standby	TO-220-15	4.75	3.61	2.76
LM1877M-9-ND	Dual Audio Power Amplifier	14-SOIC	1.55	1.15	.85
LM1877N-9-ND	Dual Audio Power Amplifier	14-Dip	1.67	1.25	.92
LM1881M-ND	Video Synch. Separator	8-SOIC	2.93	2.23	1.70
LM1881MXTR-ND	Video Synch. Separator	8-SOIC	3656.25/2,500		
LM1881N-ND	Video Synch. Separator	8-Dip	2.93	2.23	1.70
LM1894M-ND	Dynamic Noise Reduction System	14-SOIC	2.33	1.73	1.28
LM1894N-ND	Dynamic Noise Reduction System	14-Dip	3.08	2.34	1.79
LM1949N-ND	476Kbytes, Injector Drive Controller	8-Dip	4.38	3.33	2.54
LM1971M-ND	Digitally Controlled 62dB Audio Attenuator with Mute	8-SOIC	2.98	2.27	1.73
LM1971N-ND	Digitally Controlled 62dB Audio Attenuator with Mute	8-Dip	2.98	2.27	1.73
LM1972M-ND	2-Channel 78dB Audio Attenuator with Mute	20-SOIC	4.55	3.46	2.64
LM1972N-ND	2-Channel 78dB Audio Attenuator with Mute	20-Dip	5.05	3.84	2.93
LM1973M-ND	MicroPot™ 3-Channel 76dB Audio Attenuator with Mute	20-SOIC	2368.80/1,000		
LM1973N-ND	MicroPot™ 3-Channel Audio Attenuator with Mute	20-Dip	4.70	3.58	2.73
LM2202M-ND	230MHz Video Amp System	20-SOIC	7.98	6.31	5.06
LM2202N-ND	230MHz Video Amp System	20-Dip	7.98	6.31	5.06
LM2402T-ND	Monolithic Triple 3nS CRT Driver	TO-220-11	7.25	5.73	4.59
LM2403T-ND	Triple 80MHz CRT Driver	TO-220	7.10	5.62	4.50
LM2405T-ND	Monolithic Triple 7nS CRT Driver	TO-220-11	5.75	4.37	3.34
LM2407T-ND	Triple 50MHz CRT Driver	TO-220	4.70	3.58	2.73
LM2409T-ND	Monolithic Triple 9.5nS CRT Driver	TO-220-11	3.40	2.59	1.98
LM2412T-ND	Monolithic Triple 2.8nS CRT Driver	TO-220-11	8.67	6.86	5.50
LM2413T-ND	Monolithic Triple 4nS CRT Driver	TO-220-11	6.07	4.80	3.85
LM2415T-ND	Monolithic Triple 5.5nS CRT Driver	TO-220-11	4.45	3.39	2.59
LM2435T-ND	Monolithic Triple 5.5nS CRT Driver	TO-220-9	4.90	3.73	2.85
LM2437T-ND	Monolithic Triple 7.5nS CRT Driver	TO-220-9	4.08	3.10	2.37
LM2438T-ND	Monolithic Triple 13nS CRT Driver	TO-220-9	2.68	2.04	1.56

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2439T-ND	Monolithic Triple 9.5nS CRT Driver	TO-220-9	3.00	2.28	1.74
LM2467TA-ND	Monolithic Triple 7.5nS CRT Driver	TO-220-9	3.60	2.74	2.09
LM2469TA-ND	Monolithic Triple 9ns High Gain CRT Driver	TO-220-9	3.10	2.36	1.80
LM2524DN-ND	Regulator Pulse Width Module (PWM)	16-Dip	1.55	1.15	.85
LM2574HVM-ADJ-ND	Simple Switcher 0.5A Step Down Voltage Regulator	14-SOIC	4.23	3.22	2.46
LM2574HVM-3.3-ND	3.3V, Simple Switcher 0.5A Step Down Volt. Regulator	14-SOIC	4.23	3.22	2.46
LM2574HVM-5.0-ND	5V, 500mA Step Down Switch Regulator	14-SOIC	4.23	3.22	2.46
LM2574HVM-12-ND	12V, Simple Switcher 0.5A Step Down Volt. Regulator	14-SOIC	4.23	3.22	2.46
LM2574HVN-ADJ-ND	Adjustable Voltage 500mA Step Down Switch Regulator	8-Dip	4.23	3.22	2.46
LM2574HVN-3.3-ND	3.3V, Simple Switcher 0.5A Step Down Volt. Regulator	8-Dip	4.23	3.22	2.46
LM2574HVN-5.0-ND	5V, 500mA Step Down Switch Regulator	8-Dip	4.23	3.22	2.46
LM2574HVN-12-ND	12V, 500mA Step Down Switch Regulator	8-Dip	4.23	3.22	2.46
LM2574M-3.3-ND	3.3V, 500mA Step Down Switch Regulator	14-SOIC	1.86	1.38	1.02
LM2574M-5.0-ND	5V, 500mA Step Down Switch Regulator	14-SOIC	1.86	1.38	1.02
LM2574MX-5.0TR-ND	5V, 500mA Step Down Switch Regulator	14-SOIC	768.00/1,000		
LM2574M-12-ND	12V, 500mA Step Down Switch Regulator	14-SOIC	1.86	1.38	1.02
LM2574MX-ADJTR-ND	Adjustable 500mA Step Down Switch Regulator	14-SOIC	768.00/1,000		
LM2574N-ADJ-ND	Adjustable 500mA Step Down Switch Regulator	8-Dip	1.86	1.38	1.02
LM2574N-5.0-ND	5V, 500mA Step Down Switch Regulator	8-Dip	1.86	1.38	1.02
LM2574N-12-ND	12V, 500mA Step Down Switch Regulator	8-Dip	1.86	1.38	1.02
LM2574N-15-ND	15V, 500mA Step Down Switch Regulator	8-Dip	1.86	1.38	1.02
LM2575HVM-ADJ-ND	Adjustable 1A Step Down Switch Regulator	24-SOIC	4.75	3.61	2.76
LM2575HVM-12-ND	12V, Simple Switcher 1A Step Down Volt. Regulator	24-SOIC	4.75	3.61	2.76
LM2575HVN-5.0-ND	5V, 1A Step Down Switch Regulator	16-Dip	4.75	3.61	2.76
LM2575HVS-ADJ-ND	Adj. V, Simple Switcher 1A Step Down Volt. Regulator	TO-263-5	4.75	3.61	2.76
LM2575HVS-3.3-ND	3.3V, Simple Switcher 1A Step Down Volt. Regulator	TO-263-5	4.75	3.61	2.76
LM2575HVS-5.0-ND	5V, Simple Switcher 1A Step Down Volt. Regulator	TO-263-5	4.75	3.61	2.76
LM2575HVS-12-ND	12V, Simple Switcher 1A Step Down Volt. Regulator	TO-263-5	4.75	3.61	2.76
LM2575HVS-15-ND	15V, Simple Switcher 1A Step Down Volt. Regulator	TO-263-5	4.75	3.61	2.76
LM2575HVT-ADJ-ND	Adjustable 1A Step Down Switch Regulator	TO-220	4.75	3.61	2.76
LM2575HVT-3.3-ND	3.3V, Simple Switcher 1A Step Down Volt. Regulator	TO-220-5	4.75	3.61	2.76
LM2575HVT-5.0-ND	5V, 1A Step Down Switch Regulator, High Volt.	TO-220	4.75	3.61	2.76
LM2575HVT-12-ND	12V, 1A Step Down Switch Regulator	TO-220	4.75	3.61	2.76
LM2575HVT-15-ND	15V, 1A Step Down Switch Regulator	TO-220	4.75	3.61	2.76
LM2575M-3.3-ND	3.3V, Simple Switcher 1A Step Down Volt. Regulator	24-SOIC	2.51	1.87	1.38
LM2575M-5.0-ND	5V, 1A Step Down Switch Regulator	24-SOIC	2.51	1.87	1.38
LM2575M-12-ND	12V, Simple Switcher 1A Step Down Volt. Regulator	24-SOIC	2.51	1.87	1.38
LM2575M-15-ND	15V, Simple Switcher 1A Step Down Volt. Regulator	24-SOIC	2.51	1.87	1.38
LM2575N-ADJ-ND	Adjustable 1A Step Down Switch Regulator	16-Dip	2.51	1.87	1.38
LM2575N-5.0-ND	5V, 1A Step Down Switch Regulator	16-Dip	2.51	1.87	1.38
LM2575N-12-ND	12V, 1A Step Down Switch Regulator	16-Dip	2.51	1.87	1.38
LM2575S-ADJ-ND	Adj. V, Simple Switcher 1A Step Down V. Regulator	TO-263-5	2.51	1.87	1.38
LM2575S-3.3-ND	3.3V, Simple Switcher 1A Step Down V. Regulator	TO-263-5	2.51	1.87	1.38
LM2575S-5.0-ND	5V, Simple Switcher 1A Step Down Volt. Regulator	TO-263-5	2.51	1.87	1.38
LM2575S-12-ND	12V, Simple Switcher 1A Step Down Volt. Regulator	TO-263-5	2.51	1.87	1.38
LM2575T-ADJ-ND	Adjustable 1A Step Down Switch Regulator	TO-220	2.51	1.87	1.38
LM2575T-3.3-ND	3.3V, 1A Step Down Switch Regulator	TO-220	2.51	1.87	1.38
LM2575T-5.0-ND	5V, 1A Step Down Switch Regulator	TO-220	2.51	1.87	1.38
LM2575T-12-ND	12V, 1A Step Down Switch Regulator	TO-220	2.51	1.87	1.38
LM2575T-15-ND	15V, 1A Step Down Switch Regulator	TO-220	2.51	1.87	1.38
LM2576HVS-ADJ-ND	Adjustable 3A Step Down Switch Regulator	TO-263	6.15	4.68	3.57
LM2576HVS-3.3-ND	3.3V, Simple Switcher 3A Step Down Volt. Regulator	TO-263-5	6.15	4.68	3.57
LM2576HVS-5.0-ND	5V, Simple Switcher 3A Step Down Volt. Regulator	TO-263-5	6.15	4.68	3.57
LM2576HVT-ADJ-ND	Adjustable 3A Step Down Switch Regulator	TO-220-5	6.15	4.68	3.57
LM2576HVT-3.3-ND	3.3V, Simple Switcher 3A Step Down Volt. Regulator	TO-220-5	6.15	4.68	3.57
LM2576HVT-5.0-ND	5V, 3A Step Down Regulator (High Volt.)	TO-220	6.15	4.68	3.57
LM2576HVT-12-ND	12V, 3A Step Down Regulator (High Volt.)	TO-220	6.15	4.68	3.57
LM2576HVT-15-ND	15V, 3A Step Down Regulator (High Volt.)	TO-220	6.15	4.68	3.57
LM2576S-ADJ-ND	Adj. Simple Switcher 3A Step Down V. Regulator	TO-263-5	2.80	2.13	1.63
LM2576S-3.3-ND	3.3V, Simple Switcher 3A Step Down V. Regulator	TO-263-5	2.80	2.13	1.63
LM2576S-5.0-ND	5V, Simple Switcher 3A Step Down V. Regulator	TO-263-5	2.80	2.13	1.63
LM2576S-12-ND	12V, Simple Switcher 3A Step Down V. Regulator	TO-263-5	2.80	2.13	1.63
LM2576S-15-ND	15V, Simple Switcher 3A Step Down V. Regulator	TO-263-5	2.80	2.13	1.63
LM2576T-ADJ-ND	Adjustable 3A Step Down Voltage Regulator	TO-220-5	2.80	2.13	1.63
LM2576T-3.3-ND	3.3V, Simple Switcher 3A Step Down Volt. Regulator	TO-220-5	2.80	2.13	1.63
LM2576T-5.0-ND	5V, 3A Step Down Switch Regulator	TO-220	2.80	2.13	1.63
LM2576T-12-ND	12V, 3A Step Down Simple Switch Regulator	TO-220	2.80	2.13	1.63
LM2576T-15-ND	15V, Simple Switcher 3A Step Down V. Regulator	TO-220-5	2.80	2.13	1.63
LM2577M-ADJ-ND	Adjustable 3A Step Up Switch Regulator	24-SOIC	5.31	4.20	3.37
LM2577N-ADJ-ND	Adjustable 3A Step Up Switch Regulator	16-Dip	5.31	4.20	3.37
LM2577N-12-ND	12V, 3A Step Up Switch Regulator	16-Dip	5.31	4.20	3.37
LM2577N-15-ND	15V, 3A Step Up Switch Regulator	16-Dip	5.31	4.20	3.37
LM2577S-ADJ-ND	Adj. Simple Switcher Step Up Voltage Regulator	TO-263-5	5.42	4.29	3.44
LM2577S-12-ND	12V, Simple Switcher Step Up Voltage Regulator	TO-263-5	5.42	4.29	3.44
LM2577S-15-ND	15V, Simple Switcher Step Up Voltage Regulator	TO-263-5	5.42	4.29	3.44
LM2577T-ADJ-ND	Adjustable 3A Step Up Switch Voltage Regulator	TO-220-5	5.42	4.29	3.44
LM2577T-12-ND	12V, 3A Step Up Switch Regulator	TO-220	5.42	4.29	3.44
LM2577T-15-ND	15V, 3A Step Up Switch Regulator	TO-220	5.42	4.29	3.44
LM2578AM-ND	750mA Switching Regulator	8-SOIC	2.75	2.09	1.60
LM2578AN-ND	750mA Switching Regulator	8-Dip	2.75	2.09	1.60
LM2585S-ADJ-ND	Adj. Simple Switcher 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585S-3.3-ND	3.3V, Simple Switcher 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585S-5.0-ND	5V, Simple Switcher 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585S-12-ND	12V, Simple Switcher 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585T-ADJ-ND	Simple Switcher 3A Flyback Voltage Regulator	TO-220-5	6.32	5.00	4.01
LM2585T-3.3-ND	3.3V, Simple Switcher 3A Flyback Regulator	TO-220-5	6.32	5.00	4.01
LM2585T-12-ND	12V, Simple Switcher 3A Flyback Regulator	TO-220-5	6.32	5.00	4.01
LM2586S-ADJ-ND	Adj. Simple Switcher 3A Flyback Reg. with Shutdown	TO-263-7	6.53	5.17	4.14
LM2586S-5.0-ND	5V, Simple Switcher 3A Flyback Reg. with Shutdown	TO-263-7	6.53	5.17	4.14
LM2586S-12-ND	12V, Simple Switcher 3A Flyback Reg. with Shutdown	TO-263-7	6.53	5.17	4.14
LM2586T-ADJ-ND	Adj. Simple Switcher 3A Flyback Reg. with Shutdown	TO-220-7	6.53	5.17	4.14
LM2586T-5.0-ND	5V, Simple Switcher 3A Flyback Reg. with Shutdown	TO-220-7	6.53	5.17	4.14
LM2587S-ADJ-ND	Adj. Simple Switcher 5A Flyback Regulator	TO-263-5	8.32	6.58	5.27
LM2587S-3.3-ND	3.3V, Simple Switcher 5A Flyback Regulator	TO-263-5	8.32	6.58	5.27
LM2587S-5.0-ND	5V, Simple Switcher 5A Flyback Regulator	TO-263-5	8.32	6.58	5.27
LM2587T-ADJ-ND	Adj. Simple Switcher 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2587T-3.3-ND	3.3V, Simple Switcher 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2587T-5.0-ND	5V, Simple Switcher 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2587T-12-ND	12V, Simple Switcher 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2588S-ADJ-ND	Adjustable Volt. 5A Simple Switcher, Flyback Regulator	TO-263	8.53	6.74	5.40
LM2588S-12-ND	12V, 5A Simple Switcher Flyback Regulator	TO-263	8.53	6.74	5.40
LM2588T-ADJ-ND	Adjustable Volt. 5A Simple Switcher, Flyback Regulator	TO-220	8.53	6.74	5.40
LM2588T-5.0-ND	5V, 5A Switcher Flyback Regulator	TO-220	8.53	6.74	5.40
LM2590HVS-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-263-7	5.38	4.09	3.12
LM2590HVT-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-220-7	5.38	4.09	3.12
LM2591HVS-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-263-5	5.10	3.88	2.96
LM2592HVS-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 2A, Step Down Voltage Regulator	TO-263-5	6.10	4.64	3.54
LM2592HVS-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 2A, Step Down Voltage Regulator	TO-263-5	6.10	4.64	3.54
LM2592HVT-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 2A, Step Down Voltage Regulator	TO-220-5	6.10	4.64	3.54
LM2592HVT-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 2A, Step Down Voltage Regulator	TO-220-5	6.10	4.64	3.54
LM2593HVS-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 2A, Step Down Voltage Regulator	TO-263-7	5.38	4.25	3.41
LM2593HVT-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 2A, Step Down Voltage Regulator	TO-220-7	5.38	4.25	3.41
LM2593HVT-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 2A, Step Down Voltage Regulator	TO-220-7	5.38	4.25	3.41
LM2594HVM-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	4.63	3.52	2.69
LM2594HVM-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	4.63	3.52	2.69
LM2594HVM-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	4.63	3.52	2.69
LM2594HVM-12-ND	12V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	4.63	3.52	2.69
LM2594HVN-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594HVN-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594HVN-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594HVN-12-ND	12V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594M-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	3.05	2.32	1.77
LM2594M-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	3.05	2.32	1.77
LM2594M-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	3.05	2.32	1.77
LM2594M-12-ND	12V, Simple Switcher Power Converter, 150kHz, Step Down Voltage Regulator	8-SOIC	3.05	2.32	1.77
LM2594MX-5.0TR-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A , Step Down Voltage Regulator	8-SOIC	3812.50/2,500		
LM2594N-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	3.05	2.32	1.77
LM2594N-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	3.05	2.32	1.77
LM2594N-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	3.05	2.32	1.77
LM2594N-12-ND	12V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	3.05	2.32	1.77
LM2595S-ADJ-ND	Adj., Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	TO-263-5	3.85	2.93	2.24
LM2595S-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-263-5	3.85	2.93	2.24
LM2595S-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-263-5	3.85	2.93	2.24
LM2595S-12-ND	12V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-263-5	3.85	2.93	2.24
LM2595T-ADJ-ND	Adj. Power Converter, 150KHz, 1A, Step Down Volt. Reg.	TO-220	3.85	2.93	2.24
LM2595T-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-220-5	3.85	2.93	2.24
LM2595T-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-220-5	3.85	2.93	2.24
LM2595T-12-ND	12V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-220-5	3.85	2.93	2.24
LM2596S-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-263-5	4.30	3.27	2.50
LM2596S-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-263-5	4.30	3.27	2.50
LM2596S-5.0-ND	5V, Power Converter 150kHz 3A Step Down V Regulator	TO-263	4.30	3.27	2.50
LM2596S-12-ND	12V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-263-5	4.30	3.27	2.50
LM2596SX-5.0TR-ND	5V, Power Converter 150kHz 3A Step Down V Regulator	TO-263	1096.50/500		
LM2596T-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-220-5	4.30	3.27	2.50
LM2596T-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-220-5	4.30	3.27	2.50
LM2596T-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-220-5	4.30	3.27	2.50
LM2596T-12-ND	12V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-220-5	4.30	3.27	2.50
LM2597HVM-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVM-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVM-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVM-12-ND	12V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVN-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-12-ND	12V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597M-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	3.78	2.87	2.19

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2597M-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	3.78	2.87	2.19
LM2597M-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	3.78	2.87	2.19
LM2597M-12-ND	12V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-SOIC	3.78	2.87	2.19
LM2597N-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2597N-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2597N-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2597N-12-ND	12V, Simple Switcher Power Converter, 150kHz, 0.5A, Step Down Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2598S-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-263-7	4.45	3.39	2.59
LM2598S-5.0-ND	5V, Pwr. Converter, 150KHz, 1A, Step Down V Regulator	TO-263	4.45	3.39	2.59
LM2598S-12-ND	12V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-263-7	4.45	3.39	2.59
LM2598T-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-12-ND	12V, Simple Switcher Power Converter, 150kHz, 1A, Step Down Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2599S-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-263-7	5.13	3.90	2.98
LM2599S-3.3-ND	3.3V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-263-7	5.13	3.90	2.98
LM2599S-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-263-7	5.13	3.90	2.98
LM2599S-12-ND	12V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-263-7	5.13	3.90	2.98
LM2599T-ADJ-ND	Adj. Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-220-7	5.13	3.90	2.98
LM2599T-5.0-ND	5V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-220-7	5.13	3.90	2.98
LM2599T-12-ND	12V, Simple Switcher Power Converter, 150kHz, 3A, Step Down Voltage Regulator	TO-220-7	5.13	3.90	2.98
LM2611BMFCT-ND	1.4MHz Cuk Converter	SOT-23-5	2.63	2.00	1.53
LM2611BMFTR-ND	1.4MHz Cuk Converter	SOT-23-5	1323.00/1,000		
LM2621MMCT-ND	Low Input Step Up DC-DC Converter	8-MSOP	2.20	1.64	1.21
LM2621MMTR-ND	Low Input Step Up DC-DC Converter	8-MSOP	908.80/1,000		
LM2622MM-ADJCT-ND	600kHz/1.3MHz Step-up PWM DC/DC Converter	8-MSOP	4.63	3.52	2.69
LM2622MM-ADJTR-ND	600kHz/1.3MHz Step-up PWM DC/DC Converter	8-MSOP	2331.00/1,000		
LM2623AMMCT-ND	General Purpose Low Vin, Low Ripple DC/DC Boost Converter	8-MSOP	2.91	2.17	1.60
LM2623AMMTR-ND	General Purpose Low Vin, Low Ripple DC/DC Boost Converter	8-MSOP	1203.20/1,000		
LM2623MMCT-ND	General Purpose Low Vin, Low Ripple DC/DC Boost Converter	8-MSOP	2.33	1.73	1.28
LM2623MMTR-ND	General Purpose Low Vin, Low Ripple DC/DC Boost Converter	8-MSOP	960.00/1,000		
LM2635M-ND	5-Bit Programmable Synch. Buck Reg. Controller	20-SOIC	3.85	2.93	2.24
LM2635MXTR-ND	5-Bit Programmable Synch. Buck Reg. Controller	20-SOIC	1940.40/1,000		
LM2636M-ND	5-Bit Programmable Synch. Buck Reg. Controller	20-SOIC	3.80	2.89	2.21
LM2636MTC-ND	5-Bit Programmable Synch. Buck Reg. Controller	20-TSSOP	3.80	2.89	2.21
LM2637M-ND	Motherboard Power Supply Solution	24-SOIC	5.00	3.80	2.90
LM2638M-ND	Motherboard Power Supply Solution	24-SOIC	5.00	3.80	2.90
LM2639M-ND	5-Bit Program, Hi Freq. Multiphase PWM Controller	24-SOIC	5.69	4.50	3.61
LM2640MTC-ADJ-ND	Dual Adj. Step Down Switching Power Supply Controller, Switch. Freq. 200KHz	28-TSSOP	6.99	5.53	4.43
LM2641MTC-ADJ-ND	Dual Adj. Step Down Switching Power Supply Controller, Switch. Freq. 300KHz	28-TSSOP	6.99	5.53	4.43
LM2650M-ADJ-ND	Synchronous Step Down DC/DC Converter	24-SOIC	6.99	5.53	4.43
LM2651MTC-ADJ-ND	Adj. 1.5A, High Efficiency Synch. Switching Reg.	16-TSSOP	5.88	4.65	3.73
LM2651MTC-1.8-ND	1.8V, 1.5A, High Efficiency Synch. Switching Reg.	16-TSSOP	5.88	4.65	3.73
LM2651MTC-2.5-ND	2.5V, 1.5A, High Efficiency Synch. Switching Reg.	16-TSSOP	5.88	4.65	3.73
LM2651MTC-3.3-ND	3.3V, 1.5A, High Efficiency Synch. Switching Reg.	16-TSSOP	5.88	4.65	3.73
LM2653MTC-ADJ-ND	Adj. 1.5A, High Efficiency Synch. Switching Reg.	16-TSSOP	6.28	4.97	3.98
LM2655MTC-ADJ-ND	Adj. 2.5A, High Efficiency Synch. Switching Reg.	16-TSSOP	6.28	4.97	3.98
LM2655MTC-3.3-ND	3.3V, 2.5A, High Efficiency Synch. Switching Reg.	16-TSSOP	6.28	4.97	3.98
LM2660M-ND	100mA, Switched Capacitor Converter	8-SOIC	1.98	1.48	1.09
LM2660MMCT-ND	100mA, Switched Capacitor Converter	8-MSOP	1.98	1.48	1.09
LM2660MMTR-ND	100mA, Switched Capacitor Converter	8-MSOP	819.20/1,000		
LM2661M-ND	100mA, Switched Capacitor Converter with Shutdown	8-SOIC	1.98	1.48	1.09
LM2661MMCT-ND	100mA, Switched Capacitor Converter with Shutdown	8-MSOP	1.98	1.48	1.09
LM2661MMTR-ND	100mA, Switched Capacitor Converter with Shutdown	8-MSOP	819.20/1,000		
LM2662M-ND	Switched Capacitor Voltage Converter	8-SOIC	2.55	1.94	1.48
LM2663M-ND	Switched Capacitor Voltage Converter	8-SOIC	2.55	1.94	1.48
LM2664M6CT-ND	Switched Capacitor Voltage Converter, 91% Eff.	SOT-23-6	1.28	.94	.68
LM2664M6TR-ND	Switched Capacitor Voltage Converter, 91% Eff.	SOT-23-6	442.00/1,000		
LM2665M6CT-ND	Switched Capacitor Voltage Converter, 90% Eff.	SOT-23-6	1.28	.94	.68
LM2665M6TR-ND	Switched Capacitor Voltage Converter, 90% Eff.	SOT-23-6	442.00/1,000		
LM2670S-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step Down Regulator with Synch.	TO-263-7	4.70	3.58	2.73
LM2670S-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step Down V Regulator with Synch.	TO-263-7	4.70	3.58	2.73
LM2670S-5.0-ND	5V, Simple Switcher High Efficiency 3A Step Down V Regulator with Synch.	TO-263-7	4.70	3.58	2.73
LM2670S-12-ND	12V, Simple Switcher High Efficiency 3A Step Down V Regulator with Synch.	TO-263-7	4.70	3.58	2.73
LM2670T-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step Down Regulator with Synch.	TO-220-7	4.70	3.58	2.73
LM2670T-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Regulator with Synch.	TO-220-7	4.70	3.58	2.73
LM2670T-5.0-ND	5V, Simple Switcher High Efficiency 3A Step Down Regulator with Synch.	TO-220-7	4.70	3.58	2.73
LM2670T-12-ND	12V, Simple Switcher High Efficiency 3A Step Down Regulator with Synch.	TO-220-7	4.70	3.58	2.73
LM2671M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671N-ADJ-ND	Adj. Simple Switcher Power Converter High Effieciency 500mA Step Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2671N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2671N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2672LD-3.3CT-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-3.3TR-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2673S-ADJ-ND	Adj. Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-3.3-ND	3.3V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-5.0-ND	5V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-12-ND	12V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673T-ADJ-ND	Adj. Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-3.3-ND	3.3V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-5.0-ND	5V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-12-ND	12V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2674LD-3.3CT-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-3.3TR-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-5.0CT-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-5.0TR-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674M-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2675M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-5.0-ND	5V, High-Efficiency Switcher, 1A, Step-Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2676S-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-5.0-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-12-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676T-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-5.0-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-12-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-220-7	4.48	3.41	2.60

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2677S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Synch.	TO-263-7	7.14	5.65	4.53
LM2677S-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Synch.	TO-263-7	7.14	5.65	4.53
LM2677S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Synch.	TO-263-7	7.14	5.65	4.53
LM2677S-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Synch.	TO-263-7	7.14	5.65	4.53
LM2677T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Synch.	TO-220-7	7.14	5.65	4.53
LM2677T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Synch.	TO-220-7	7.14	5.65	4.53
LM2677T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Synch.	TO-220-7	7.14	5.65	4.53
LM2677T-12-ND	12V, Simple Switcher High Efficiency 5A Step-Dow Voltage Regulator with Synch.	TO-220-7	7.14	5.65	4.53
LM2678S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-263-7	5.96	4.72	3.78
LM2678S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-263-7	5.96	4.72	3.78
LM2678S-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-263-7	5.96	4.72	3.78
LM2678T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-220-7	5.96	4.72	3.78
LM2678T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-220-7	5.96	4.72	3.78
LM2678T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-220-7	5.96	4.72	3.78
LM2679S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-263-7	6.26	4.95	3.97
LM2679S-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-263-7	6.26	4.95	3.97
LM2679S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-263-7	6.26	4.95	3.97
LM2679S-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-263-7	6.26	4.95	3.97
LM2679T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-220-7	6.26	4.95	3.97
LM2679T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-220-7	6.26	4.95	3.97
LM2679T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-220-7	6.26	4.95	3.97
LM2679T-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-220-7	6.26	4.95	3.97
LM2681M6CT-ND	Switched Capacitor Volt Converter	SOT-23-6	1.16	.86	.62
LM2681M6TR-ND	Switched Capacitor Volt Converter	SOT-23-6	403.00/1,000		
LM2682M-ND	Switched Capacitor Volt Doubling Inverter	8-SOIC	1.67	1.25	.92
LM2682MMCT-ND	Switched Capacitor Volt Doubling Inverter	8-MSOP	1.67	1.25	.92
LM2682MMTR-ND	Switched Capacitor Volt Doubling Inverter	8-MSOP	691.20/1,000		
LM2685MTC-ND	Dual Output Regulated Switched Capacitor Voltage Converter	14-TSSOP	2.91	2.17	1.60
LM2686MTC-ND	Regulated Switched Capacitor Voltage Converter	14-TSSOP	2.88	2.14	1.59
LM2687MMCT-ND	Low Noise Regulated Switched Capacitor Voltage Converter	8-MSOP	2.36	1.75	1.30
LM2687MMTR-ND	Low Noise Regulated Switched Capacitor Voltage Converter	8-MSOP	972.80/1,000		
LM2698MM-ADJCT-ND	Adj. 1.35A Simple Switcher Boost Regulator	8-MSOP	4.35	3.31	2.53
LM2698MM-ADJTR-ND	Adj. 1.35A Simple Switcher Boost Regulator	8-MSOP	2192.40/1,000		
LM2703MF-ADJCT-ND	Adj. Micropower Step-Up DC/DC Converter	SOT-23-5	2.51	1.87	1.38
LM2703MF-ADJTR-ND	Adj. Micropower Step-Up DC/DC Converter	SOT-23-5	1036.80/1,000		
LM2704MF-ADJCT-ND	Adj. Micropower Step-Up DC/DC Converter	SOT-23-5	2.67	1.98	1.47
LM2704MF-ADJTR-ND	Adj. Micropower Step-Up DC/DC Converter	SOT-23-5	1100.80/1,000		
LM2722M-ND	High Speed Synch./Asynch. MOSFET Driver	8-SOIC	3.10	2.36	1.80
LM2725M-ND	High Speed Synchronous MOSFET Driver	8-SOIC	2.93	2.23	1.70
LM2726M-ND	High Speed Synchronous MOSFET Driver	8-SOIC	3.33	2.53	1.93
LM2765M6CT-ND	Switched Capacitor Volt Converter	SOT-23-6	1.05	.77	.56
LM2765M6TR-ND	Switched Capacitor Volt Converter	SOT-23-6	364.00/1,000		
LM2767M5CT-ND	Switched Capacitor Volt Converter	SOT-23-6	1.01	.75	.54
LM2767M5TR-ND	Switched Capacitor Volt Converter	SOT-23-6	351.00/1,000		
LM2791LD-HCT-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	2.85	2.17	1.66
LM2791LD-HTR-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	1436.40/1,000		
LM2794BLCT-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-Micro SMD	3.10	2.36	1.80
LM2794BLTR-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-Micro SMD	412.30/250		
LM2795BLCT-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-Micro SMD	3.10	2.36	1.80
LM2795BLTR-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-Micro SMD	412.30/250		
LM2825HN-ADJ-ND	Adjustable Integrated Power Supply 1A DC/DC Converter	24-Dip	15.00	14.00	13.00
LM2825N-ADJ-ND	Adjustable DC/DC Converter	24-Dip	15.00	14.00	13.00
LM2825N-3.3-ND	3.3V, Integrated Power Supply 1A DC/DC Converter	24-Dip	15.00	14.00	13.00
LM2825N-5.0-ND	5V, Integrated Power Supply 1A DC/DC Converter	24-Dip	15.00	14.00	13.00
LM2825N-12-ND	12V, Integrated Power Supply 1A DC/DC Converter	24-Dip	15.00	14.00	13.00
LM2876T-ND	High Performance 40W Audio Power Amp with Mute	TO-220-11	4.30	3.27	2.50
LM2876TF-ND	High Performance 40W Audio Power Amp with Mute	TO-220-11	4.75	3.61	2.76
LM2901M-ND	Quad Voltage Comparator	14-SOIC	.44	.32	.24
LM2901MXTR-ND	Quad Voltage Comparator	14-SOIC	280.00/2,500		
LM2901NNS-ND	Quad Voltage Comparator	14-Dip	.44	.32	.24
LM2902M-ND	Low Power Quad Op Amp	14-SOIC	.44	.32	.24
LM2902MXTR-ND	Low Power Quad Op Amp	14-SOIC	280.00/2,500		
LM2902NNS-ND	Low Power Quad Op Amp	14-Dip	.44	.32	.24
LM2903MNS-ND	Dual Comparator	8-SOIC	.44	.32	.24
LM2903MXTR-ND	Dual Comparator	8-SOIC	280.00/2,500		
LM2903NNS-ND	Dual Comparator	8-Dip	.44	.32	.24
LM2904MNS-ND	Low Power Dual Op Amp	8-SOIC	.44	.32	.24
LM2904NNS-ND	Dual Op Amp	8-Dip	.44	.32	.24
LM2907M-8-ND	Frequency-to-Voltage Converter	8-SOIC	2.15	1.60	1.18
LM2907N-ND	Frequency-to-Voltage Converter	14-Dip	2.15	1.60	1.18
LM2907N-8-ND	Frequency-to-Voltage Converter	8-Dip	2.15	1.60	1.18
LM2917M-ND	Frequency-to-Voltage Converter	14-SOIC	2.42	1.80	1.33
LM2917M-8-ND	Frequency-to-Voltage Converter	8-SOIC	2.42	1.80	1.33
LM2917N-ND	Frequency-to-Voltage Converter	14-Dip	2.44	1.82	1.34
LM2917N-8-ND	Frequency-to-Voltage Converter	8-Dip	2.44	1.82	1.34
LM2930S-5.0-ND	5V, 3-Terminal Positive Regulator	TO-263	1.64	1.22	.91
LM2930S-8.0-ND	8V, 3-Terminal Positive Regulator	TO-263	1.64	1.22	.91
LM2930T-5.0-ND	5V, 150mA Positive Regulator	TO-220	1.58	1.16	.84
LM2930T-8.0-ND	8V, 150mA Positive Regulator	TO-220	1.58	1.16	.84
LM2931AM-5.0-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	1.04	.75	.55
LM2931AMX-5.0TR-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	764.75/2,500		
LM2931AS-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-263	1.80	1.32	.96
LM2931AT-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-220	1.09	.80	.58
LM2931AZ-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-92	.94	.69	.50
LM2931CM-ND	Adjustable, Low Dropout (0.6V) Regulator	8-SOIC	.99	.72	.52
LM2931CMXTR-ND	Adjustable, Low Dropout (0.6V) Regulator	8-SOIC	731.50/2,500		
LM2931CS-ND	Adjustable, Low Dropout (0.6V) Regulator	TO-263-5	1.65	1.21	.88
LM2931CT-ND	Adjustable, Low Dropout (0.6V) Regulator	TO-220-5	1.24	.91	.66
LM2931M-5.0-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	1.08	.78	.57
LM2931MX-5.0TR-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	798.00/2,500		
LM2931S-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-263	1.65	1.21	.88
LM2931T-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-220	1.13	.83	.60
LM2931Z-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-92	.86	.62	.45
LM2936BM-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator	8-SOIC	2.26	1.68	1.25
LM2936DT-5.0-ND	5V, Ultra Low Quiescent Current Regulator	TO-252	2.54	1.89	1.40
LM2936HVMA-5.0-ND	5V, Ultra Low Quiescent Current Regulator	8-SOIC	2.54	1.89	1.40
LM2936M-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator	8-SOIC	2.20	1.64	1.21
LM2936M-5.0-ND	5V, Ultra Low Quiescent Current Regulator	8-SOIC	2.20	1.64	1.21
LM2936MM-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator	8-MSOP	2.20	1.64	1.21
LM2936MM-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator	8-MSOP	908.80/1,000		
LM2936MP-3.0CT-ND	3V, Ultra Low Quiescent Current Regulator	SOT-223-4	2.54	1.89	1.40
LM2936MP-3.0TR-ND	3V, Ultra Low Quiescent Current Regulator	SOT-223-4	2099.20/2,000		
LM2936MP-3.3CT-ND	3.3V, Ultra Low Quiescent Current Regulator	SOT-223-4	2.54	1.89	1.40
LM2936MP-3.3TR-ND	3.3V, Ultra Low Quiescent Current Regulator	SOT-223-4	1049.60/1,000		
LM2936MX-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator	8-SOIC	2312.50/2,500		
LM2936Z-3.0-ND	3V, Ultra Low Quiescent Current Regulator	TO-92	2.54	1.89	1.40
LM2936Z-5.0-ND	5V, Ultra Low Quiescent Current Regulator	TO-92	2.54	1.89	1.40
LM2937ES-2.5-ND	2.5V, 500mA Low Dropout Regulator	TO-263	2.05	1.52	1.13
LM2937ES-3.3-ND	3.3V, 500mA Low Dropout Regulator	TO-263	2.05	1.52	1.13
LM2937ES-5.0-ND	5V, 500mA Low Dropout Regulator	TO-263	2.05	1.52	1.13
LM2937ES-8.0-ND	8V, 500mA Low Dropout Regulator	TO-263	2.05	1.52	1.13
LM2937ES-10-ND	10V, 500mA Low Dropout Regulator	TO-263	2.05	1.52	1.13
LM2937ES-12-ND	12V, 500mA Low Dropout Regulator	TO-263	2.05	1.52	1.13
LM2937ES-15-ND	15V, 500mA Low Dropout Regulator	TO-263	2.05	1.52	1.13
LM2937ESX-5.0TR-ND	5V, 500mA Low Dropout Regulator	TO-263	429.00/500		
LM2937ET-2.5-ND	2.5V, 500mA Low Dropout Regulator	TO-220	1.84	1.35	.98
LM2937ET-3.3-ND	3.3V, 500mA Low Dropout Regulator	TO-220	1.84	1.35	.98
LM2937ET-5.0-ND	5V, 500mA High Temp Regulator	TO-220	1.84	1.35	.98
LM2937ET-8.0-ND	8V, 500mA High Temp Voltage Regulator	TO-220	1.84	1.35	.98
LM2937ET-10-ND	10V, 500mA High Temp Voltage Regulator	TO-220	1.84	1.35	.98
LM2937ET-12-ND	12V, 500mA High Temp Voltage Regulator	TO-220	1.84	1.35	.98
LM2937IMP-2.5CT-ND	2.5V, 500mA Low Dropout Regulator	SOT-223	1.80	1.34	.99
LM2937IMP-2.5TR-ND	2.5V, 500mA Low Dropout Regulator	SOT-223	742.40/1,000		
LM2937IMP-3.3CT-ND	3.3V, 500mA Low Dropout Regulator	SOT-223	1.80	1.34	.99
LM2937IMP-3.3TR-ND	3.3V, 500mA Low Dropout Regulator	SOT-223	742.40/1,000		
LM2937IMP-5.0CT-ND	5V, 400mA Low Dropout Regulator	SOT-223	1.80	1.34	.99
LM2937IMP-5.0TR-ND	5V, 400mA Low Dropout Regulator	SOT-223	742.40/1,000		
LM2937IMP-8.0CT-ND	8V, 500mA Low Dropout Regulator	SOT-223	1.80	1.34	.99
LM2937IMP-8.0TR-ND	8V, 500mA Low Dropout Regulator	SOT-223	742.40/1,000		
LM2937IMP-10CT-ND	10V, 500mA Low Dropout Regulator	SOT-223	1.80	1.34	.99
LM2937IMP-10TR-ND	10V, 500mA Low Dropout Regulator	SOT-223	742.40/1,000		
LM2937IMP-12CT-ND	12V, 500mA Low Dropout Regulator	SOT-223	1.80	1.34	.99
LM2937IMP-12TR-ND	12V, 500mA Low Dropout Regulator	SOT-223	742.40/1,000		
LM2937IMP-15CT-ND	15V, 500mA Low Dropout Regulator	SOT-223	1.80	1.34	.99
LM2937IMP-15TR-ND	15V, 500mA Low Dropout Regulator	SOT-223	742.40/1,000		
LM2940CS-5.0-ND	5V, 1A Low Dropout Voltage Regulator	TO-263	1.20	.88	.64
LM2940CS-9.0-ND	9V, 1A Low Dropout Regulator	TO-263	1.20	.88	.64
LM2940CS-12-ND	12V, 1A Low Dropout Regulator	TO-263	1.20	.88	.64
LM2940CS-15-ND	15V, 1A Low Dropout Regulator	TO-263	1.20	.88	.64
LM2940CSX-5.0TR-ND	5V, 1A Low Dropout Voltage Regulator	TO-263	212.80/500		
LM2940CT-5.0-ND	5V, 1A Low Dropout Voltage Regulator	TO-220	1.65	1.21	.88
LM2940CT-9.0-ND	9V, 1A Low Dropout Regulator	TO-220	1.65	1.21	.88
LM2940CT-12-ND	12V, 1A Low Dropout Voltage Regulator	TO-220	1.65	1.21	.88
LM2940CT-15-ND	15V, 1A Low Dropout Voltage Regulator	TO-220	1.65	1.21	.88
LM2940IMP-5.0CT-ND	5V, 1A Low Dropout Regulator	SOT-223	2.08	1.55	1.14
LM2940IMP-5.0TR-ND	5V, 1A Low Dropout Regulator	SOT-223	857.60/1,000		
LM2940IMP-8.0CT-ND	8V, 1A Low Dropout Regulator	SOT-223	2.08	1.55	1.14
LM2940IMP-8.0TR-ND	8V, 1A Low Dropout Regulator	SOT-223	857.60/1,000		
LM2940IMP-9.0CT-ND	9V, 1A Low Dropout Regulator	SOT-223	2.08	1.55	1.14
LM2940IMP-9.0TR-ND	9V, 1A Low Dropout Regulator	SOT-223	857.60/1,000		
LM2940IMP-10CT-ND	10V, 1A Low Dropout Regulator	SOT-223	2.08	1.55	1.14
LM2940IMP-10TR-ND	10V, 1A Low Dropout Regulator	SOT-223	857.60/1,000		
LM2940IMP-12CT-ND	12V, 1A Low Dropout Regulator	SOT-223	2.08	1.55	1.14
LM2940IMP-12TR-ND	12V, 1A Low Dropout Regulator	SOT-223	857.60/1,000		
LM2940IMP-15CT-ND	15V, 1A Low Dropout Regulator	SOT-223	2.08	1.55	1.14
LM2940IMP-15TR-ND	15V, 1A Low Dropout Regulator	SOT-223	857.60/1,000		
LM2940S-5.0-ND	5V, 1A Low Dropout Voltage Regulator	TO-263	1.71	1.27	.94
LM2940S-8.0-ND	8V, 1A Low Dropout Regulator	TO-263	1.71	1.27	.94
LM2940S-9.0-ND	9V, 1A Low Dropout Regulator	TO-263	1.71	1.27	.94
LM2940S-10-ND	10V, 1A Low Dropout Regulator	TO-263	1.71	1.27	.94
LM2940S-12-ND	12V, 1A Low Dropout Regulator	TO-263	1.71	1.27	.94
LM2940SX-5.0TR-ND	5V, 1A Low Dropout Voltage Regulator	TO-263	357.50/500		
LM2940T-5.0-ND	5V, 1A Low Dropout Voltage Regulator	TO-220	1.69	1.24	.90
LM2940T-8.0-ND	8V, 1A Low Dropout Voltage Regulator	TO-220	1.69	1.24	.90
LM2940T-9.0-ND	9V, 1A Low Dropout Voltage Regulator	TO-220	1.69	1.24	.90
LM2940T-10.0-ND	10V, 1A Low Dropout Voltage Regulator	TO-220	1.69	1.24	.90
LM2940T-12.0-ND	12V, 1A Low Dropout Voltage Regulator	TO-220	1.69	1.24	.90
LM2941CS-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-263-5	1.98	1.48	1.09
LM2941CSXTR-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-263-5	416.00/500		
LM2941CT-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-220-5	1.83	1.36	1.01
LM2941S-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-263-5	1.58	1.18	.87
LM2941SXTR-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-263-5	331.50/500		
LM2941T-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-220-5	1.92	1.43	1.06
LM2990S-5.0-ND	5V, Negative Low Dropout Regulator	TO-263	2.65	2.02	1.54
LM2990S-12-ND	12V, Negative Low Dropout Regulator	TO-263	2.65	2.02	1.54
LM2990S-15-ND	15V, Negative Low Dropout Regulator	TO-263	2.65	2.02	1.54
LM2990T-5.0-ND	5V, Negative Low Dropout Voltage Regulator	TO-220	2.50	1.90	1.45
LM2990T-5.2-ND	5.2V, Negative Low Dropout Voltage Regulator	TO-220	2.50	1.90	1.45

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2990T-12-ND	12V, Negative Low Dropout Voltage Regulator	TO-220	2.50	1.90	1.45
LM2990T-15-ND	15V, Negative Low Dropout Voltage Regulator	TO-220	2.50	1.90	1.45
LM2991S-ND	Neg. Adjustable Low Dropout Voltage Regulator	TO-263-5	2.65	2.02	1.54
LM2991T-ND	1A Neg. Adjustable Low Dropout Voltage Regulator	TO-220	2.50	1.90	1.45
LM3302N-ND	Quad Comparator	14-Dip	.99	.72	.52
LM3350MMCT-ND	Switched Capacitor Voltage Converter, 90% Eff.	8-MSOP	2.11	1.57	1.16
LM3350MMTR-ND	Switched Capacitor Voltage Converter, 90% Eff.	8-MSOP	870.40/1,000		
LM3351MMCT-ND	Switched Capacitor Voltage Converter, 95% Eff.	8-MSOP	2.11	1.57	1.16
LM3351MMTR-ND	Switched Capacitor Voltage Converter, 95% Eff.	8-MSOP	870.40/1,000		
LM3352MTC-3.0-ND	3V, Regulated 200mA Buck-Boost Switched Capacitor DC/DC Converter	16-TSSOP	3.75	2.85	2.18
LM3352MTC-3.3-ND	3.3V, Regulated 200mA Buck-Boost Switched Capacitor DC/DC Converter	16-TSSOP	3.75	2.85	2.18
LM3354MM-4.1CT-ND	4.1V, Regulated 90mA Buck-Boost Switched Capacitor DC/DC Converter	10-MSOP	2.85	2.17	1.66
LM3354MM-4.1TR-ND	4.1V, Regulated 90mA Buck-Boost Switched Capacitor DC/DC Converter	10-MSOP	1436.40/1,000		
LM3411AM5-3.3CT-ND	3.3V, Precision Secondary Reg/Driver, A Grade	SOT-23-5	1.80	1.34	.99
LM3411AM5-3.3TR-ND	3.3V, Precision Secondary Reg/Driver, A Grade	SOT-23-5	742.40/1,000		
LM3411AM5-5.0CT-ND	5V, Precision Secondary Reg/Driver, A Grade	SOT-23-5	1.80	1.34	.99
LM3411AM5-5.0TR-ND	5V, Precision Secondary Reg/Driver, A Grade	SOT-23-5	742.40/1,000		
LM3411M5-3.3CT-ND	3.3V, Precision Secondary Reg/Driver	SOT-23-5	1.61	1.19	.86
LM3411M5-3.3TR-ND	3.3V, Precision Secondary Reg/Driver	SOT-23-5	559.00/1,000		
LM3411M5-5.0CT-ND	5V, Precision Secondary Reg/Driver	SOT-23-5	1.61	1.19	.86
LM3411M5-5.0TR-ND	5V, Precision Secondary Reg/Driver	SOT-23-5	559.00/1,000		
LM3420AM5-8.2CT-ND	8.2V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.50	1.90	1.45
LM3420AM5-8.2TR-ND	8.2V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1260.00/1,000		
LM3420AM5-8.4CT-ND	8.4V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.50	1.90	1.45
LM3420AM5-8.4TR-ND	8.4V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1260.00/1,000		
LM3420AM5-16.8CT-ND	16.8V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.50	1.90	1.45
LM3420AM5-16.8TR-ND	16.8V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1260.00/1,000		
LM3420M5-16.8CT-ND	16.8V, Lithium-Ion Battery Charge Controller	SOT-23-5	2.67	1.98	1.47
LM3420M5-16.8TR-ND	16.8V, Lithium-Ion Battery Charge Controller	SOT-23-5	1100.80/1,000		
LM3420M5-8.2CT-ND	8.2V, Lithium-Ion Battery Charge Controller	SOT-23-5	2.67	1.98	1.47
LM3420M5-8.2TR-ND	8.2V, Lithium-Ion Battery Charge Controller	SOT-23-5	1100.80/1,000		
LM3460M5-1.2CT-ND	1.2V, Precision Controller for GTLp and GTL Bus Termination	SOT-23-5	2.45	1.82	1.35
LM3460M5-1.2TR-ND	1.2V, Precision Controller for GTLp and GTL Bus Termination	SOT-23-5	1011.20/1,000		
LM3460M5-1.5CT-ND	1.5V, Precision Controller for GTLp and GTL Bus Termination	SOT-23-5	2.45	1.82	1.35
LM3460M5-1.5TR-ND	1.5V, Precision Controller for GTLp and GTL Bus Termination	SOT-23-5	1011.20/1,000		
LM3477MMCT-ND	High Efficiency High Side N-Channel Controller For Switching Regulator	8-MSOP	2.67	1.98	1.47
LM3477MMTR-ND	High Efficiency High Side N-Channel Controller For Switching Regulator	8-MSOP	1100.80/1,000		
LM3478MMCT-ND	High Efficiency Low-Side N-Channel Controller for Switching Regulator	8-MSOP	2.67	1.98	1.47
LM3478MMTR-ND	High Efficiency Low-Side N-Channel Controller for Switching Regulator	8-MSOP	1100.80/1,000		
LM3480IM3X-12CT-ND	12V, 100mA Low Dropout Voltage Regulator	SOT-23	1.09	.80	.58
LM3480IM3X-12TR-ND	12V, 100mA Low Dropout Voltage Regulator	SOT-23	1109.25/3,000		
LM3480IM3-15CT-ND	15V, 100mA Low Dropout Voltage Regulator	SOT-23	1.09	.80	.58
LM3480IM3-15TR-ND	15V, 100mA Low Dropout Voltage Regulator	SOT-23	377.00/1,000		
LM3480IM3-3.3CT-ND	3.3V, 100mA Low Dropout Voltage Regulator	SOT-23	1.09	.80	.58
LM3480IM3-3.3TR-ND	3.3V, 100mA Low Dropout Voltage Regulator	SOT-23	377.00/1,000		
LM3480IM3-5.0CT-ND	5.0V, 100mA Low Dropout Voltage Regulator	SOT-23	1.09	.80	.58
LM3480IM3-5.0TR-ND	5.0V, 100mA Low Dropout Voltage Regulator	SOT-23	377.00/1,000		
LM3485MMCT-ND	Hysteric PFET Buck Controller	8-MSOP	1.80	1.32	.96
LM3485MMTR-ND	Hysteric PFET Buck Controller	8-MSOP	624.00/1,000		
LM3488MMCT-ND	High Efficiency High Low Side N-Channel Controller For Switching Regulators	8-MSOP	2.50	1.90	1.45
LM3488MMTR-ND	High Efficiency High Low Side N-Channel Controller For Switching Regulators	8-MSOP	1260.00/1,000		
LM3490IM5-3.3CT-ND	3.3V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	1.28	.94	.68
LM3490IM5-3.3TR-ND	3.3V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	442.00/1,000		
LM3490IM5-5.0CT-ND	5V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	1.28	.94	.68
LM3490IM5-5.0TR-ND	5V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	442.00/1,000		
LM3490IM5-12CT-ND	12V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	1.28	.94	.68
LM3490IM5-12TR-ND	12V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	442.00/1,000		
LM3490IM5-15CT-ND	15V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	1.28	.94	.68
LM3490IM5-15TR-ND	15V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	442.00/1,000		
LM3524DM-ND	Regulating Pulse Width Modulator	16	1.46	1.08	.78
LM3524DN-ND	Regulating Pulse Width Modulator	16-Dip	1.46	1.08	.78
LM3525M-H-ND	Single Port USB Power Switch and Over-Current Protection	8-SOIC	1.92	1.43	1.06
LM3525M-L-ND	Single Port USB Power Switch and Over-Current Protection	8-SOIC	1.92	1.43	1.06
LM3526M-H-ND	Dual Port USB Power Switch and Over-Current Protection	8-SOIC	2.17	1.61	1.19
LM3526M-L-ND	Dual Port USB Power Switch and Over-Current Protection	8-SOIC	2.17	1.61	1.19
LM3544M-H-ND	Quad Port USB Power Switch and Over-Current Protection	16-SOIC	3.80	2.89	2.21
LM3578AM-ND	Switching Regulator	8-SOIC	1.92	1.43	1.06
LM3578AMXTR-ND	Switching Regulator	8-SOIC	1937.50/2,500		
LM3578AN-ND	Switching Regulator	8-Dip	1.92	1.43	1.06
LM3620M5-4CT-ND	4V, Lithium-Ion Battery Charger Controller	SOT-23-5	2.20	1.64	1.21
LM3620M5-4TR-ND	4V, Lithium-Ion Battery Charger Controller	SOT-23-5	908.80/1,000		
LM3620M5-8CT-ND	8V, Lithium-Ion Battery Charger Controller	SOT-23-5	2.20	1.64	1.21
LM3620M5-8TR-ND	8V, Lithium-Ion Battery Charger Controller	SOT-23-5	908.80/1,000		
LM3621M-ND	Single Cell Lithium-Ion Battery Charger Controller	16-SOIC	3.73	2.84	2.17
LM3622AM-4.1-ND	4.1V, Lithium-Ion Battery Charger Controller	8-SOIC	2.98	2.27	1.73
LM3622AM-4.2-ND	4.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.98	2.27	1.73
LM3622AM-8.2-ND	8.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.98	2.27	1.73
LM3622AM-8.4-ND	8.4V, Lithium-Ion Battery Charger Controller	8-SOIC	2.98	2.27	1.73
LM3622M-4.1-ND	4.1V, Lithium-Ion Battery Charger Controller	8-SOIC	2.79	2.07	1.53
LM3622M-4.2-ND	4.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.79	2.07	1.53
LM3622M-8.4-ND	8.4V, Lithium-Ion Battery Charger Controller	8-SOIC	2.79	2.07	1.53
LM3647IM-ND	Universal Battery Charger for Li-Ion, Ni-MH, and Ni-Cd Batteries	20-SOIC	5.67	4.49	3.60
LM3704XCMM-308CT-ND	Microprocessor Supervisory Circuit with Power Fail Input, Low Line Output and Manual Reset	10-MSOP	2.51	1.87	1.38
LM3704XCMM-308TR-ND	Microprocessor Supervisory Circuit with Power Fail Input, Low Line Output and Manual Reset	10-MSOP	1036.80/1,000		
LM3710XQMM-308CT-ND	Microprocessor Supervisory Circuit with Power Fail Input, Low Line Output, Manual Reset & Watchdog	10-MSOP	2.63	2.00	1.53
LM3710XQMM-308TR-ND	Microprocessor Supervisory Circuit with Power Fail Input, Low Line Output, Manual Reset & Watchdog	10-MSOP	1323.00/1,000		
LM3712XQBP-308CT-ND	Microprocessor Supervisory Circuit w/Separate Watchdog Timer Output, Power Fail Input and Manual Reset	9-Micro SMD	2.85	2.17	1.66
LM3712XQBP-308TR-ND	Microprocessor Supervisory Circuit w/Separate Watchdog Timer Output, Power Fail Input and Manual Reset	9-Micro SMD	379.05/250		
LM3722IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3722IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3722IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3722IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3723IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3723IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3724IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3724IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3812M-1.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.58	2.72	2.08
LM3812M-7.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.58	2.72	2.08
LM3813M-1.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.58	2.72	2.08
LM3813M-7.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.58	2.72	2.08
LM3814M-1.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.58	2.72	2.08
LM3814M-7.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.58	2.72	2.08
LM3815M-1.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.58	2.72	2.08
LM3822MM-1.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	2.85	2.17	1.66
LM3822MM-1.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	1436.40/1,000		
LM3822MM-2.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	2.85	2.17	1.66
LM3822MM-2.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	1436.40/1,000		
LM3824MM-1.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	2.85	2.17	1.66
LM3824MM-1.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	1436.40/1,000		
LM3824MM-2.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	2.85	2.17	1.66
LM3824MM-2.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	1436.40/1,000		
LM3875T-ND	High Performance 56W Audio Power Amp	TO-220-11	5.70	4.34	3.31
LM3875TF-ND	High Performance 56W Audio Power Amp	TO-220-11	5.81	4.34	3.31
LM3876T-ND	High Performance 56W Audio Power Amp with Mute	TO-220-11	5.23	3.98	3.04
LM3876TF-ND	High Performance 56W Audio Power Amp with Mute	TO-220-11	5.35	4.07	3.11
LM3886T-ND	High Performance 68W Audio Power Amp with Mute	TO-220-11	5.23	3.98	3.04
LM3886TF-ND	High Performance 68W Audio Power Amp with Mute	TO-220-11	5.35	4.07	3.11
LM3914N-1-ND	Dot/Bar Display Driver	18-Dip	2.91	2.17	1.60
LM3914V-ND	Dot/Bar Graph Display Driver	20-PLCC	3.13	2.38	1.82
LM3915N-1-ND	Dot/Bar Display Driver	18-Dip	2.91	2.17	1.60
LM3916N-1-ND	Dot/Bar Display Driver	18-Dip	2.98	2.21	1.64
LM3940IMP-3.3CT-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	SOT-223	2.11	1.57	1.16
LM3940IMP-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	SOT-223	870.40/1,000		
LM3940IS-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-263	2.51	1.87	1.38
LM3940ISX-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-263	526.50/500		
LM3940IT-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-220	2.51	1.87	1.38
LM4040AIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.39	1.78	1.31
LM4040AIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	985.60/1,000		
LM4040AIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.39	1.78	1.31
LM4040AIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	985.60/1,000		
LM4040AIM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.39	1.78	1.31
LM4040AIM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	985.60/1,000		
LM4040AIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.39	1.78	1.31
LM4040AIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	985.60/1,000		
LM4040AIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.39	1.78	1.31
LM4040AIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	985.60/1,000		
LM4040AIM3X-10CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.39	1.78	1.31
LM4040AIM3X-10TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2887.50/3,000		
LM4040AIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.39	1.78	1.31
LM4040AIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.39	1.78	1.31
LM4040AIZ-5.0-ND	5V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.39	1.78	1.31
LM4040AIZ-10.0-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.39	1.78	1.31
LM4040BIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.58	1.18	.87
LM4040BIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-230	652.80/1,000		
LM4040BIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.58	1.18	.87
LM4040BIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	652.80/1,000		
LM4040BIM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.58	1.18	.87
LM4040BIM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	652.80/1,000		
LM4040BIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.58	1.18	.87
LM4040BIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	652.80/1,000		
LM4040BIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.58	1.18	.87
LM4040BIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	652.80/1,000		
LM4040BIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	SC-70-5	1.58	1.18	.87
LM4040BIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	SC-70-5	652.80/1,000		
LM4040BIM7-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	SC-70-5	1.58	1.18	.87
LM4040BIM7-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	SC-70-5	652.80/1,000		
LM4040BIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	TO-92	1.58	1.18	.87

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4040BIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	TO-92	1.58	1.18	.87
LM4040BIZ-5.0-ND	5V, Prec. Micropower Shunt Volt. Reference ±.2%	TO-92	1.58	1.18	.87
LM4040CIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.31	.97	.70
LM4040CIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	455.00/1,000		
LM4040CIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.31	.97	.70
LM4040CIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	455.00/1,000		
LM4040CIM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.31	.97	.70
LM4040CIM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	455.00/1,000		
LM4040CIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.31	.97	.70
LM4040CIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	455.00/1,000		
LM4040CIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.31	.97	.70
LM4040CIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	455.00/1,000		
LM4040CIM3X-10CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.31	.97	.70
LM4040CIM3X-10TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1338.75/3,000		
LM4040CIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	1.31	.97	.70
LM4040CIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	455.00/1,000		
LM4040CIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.31	.97	.70
LM4040CIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.31	.97	.70
LM4040CIZ-5.0-ND	5V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.31	.97	.70
LM4040CIZ-8.2-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.31	.97	.70
LM4040CIZ-10.0-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.31	.97	.70
LM4040DEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.31	.97	.70
LM4040DEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	455.00/1,000		
LM4040DEM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.31	.97	.70
LM4040DEM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	455.00/1,000		
LM4040DIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.09	.80	.58
LM4040DIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	377.00/1,000		
LM4040DIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.09	.80	.58
LM4040DIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	377.00/1,000		
LM4040DIM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.09	.80	.58
LM4040DIM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	377.00/1,000		
LM4040DIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.09	.80	.58
LM4040DIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	377.00/1,000		
LM4040DIM3X-10CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.09	.80	.58
LM4040DIM3X-10TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1109.25/3,000		
LM4040DIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	1.09	.80	.58
LM4040DIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	1.09	.80	.58
LM4040DIZ-5.0-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	1.09	.80	.58
LM4040DIZ-8.2-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	1.09	.80	.58
LM4040DIZ-10.0-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	1.09	.80	.58
LM4040EEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	1.05	.77	.56
LM4040EEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	364.00/1,000		
LM4040EIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	.99	.72	.52
LM4040EIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	308.00/1,000		
LM4040EIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	TO-92	.99	.72	.52
LM4041AIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.39	1.78	1.31
LM4041AIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	985.60/1,000		
LM4041AIZ-1.2-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.39	1.78	1.31
LM4041BIZ-1.2-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.2%	TO-92	1.58	1.18	.87
LM4041BIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.58	1.18	.87
LM4041BIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	652.80/1,000		
LM4041CEM3-ADJCT-ND	Adj. Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.54	1.13	.82
LM4041CEM3-ADJTR-ND	Adj. Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	533.00/1,000		
LM4041CEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.54	1.13	.82
LM4041CEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	533.00/1,000		
LM4041CIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.31	.97	.70
LM4041CIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	455.00/1,000		
LM4041CIM3-ADJCT-ND	Adj. Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.31	.97	.70
LM4041CIM3-ADJTR-ND	Adj. Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	455.00/1,000		
LM4041CIM7-ADJCT-ND	Adj., Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	1.31	.97	.70
LM4041CIM7-ADJTR-ND	Adj., Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	455.00/1,000		
LM4041CIM7-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	1.31	.97	.70
LM4041CIM7-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	455.00/1,000		
LM4041CIZ-1.2-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.31	.97	.70
LM4041CIZ-ADJ-ND	Adj., Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.31	.97	.70
LM4041DEM3-ADJCT-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23	1.31	.97	.70
LM4041DEM3-ADJTR-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23	455.00/1,000		
LM4041DEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23	1.31	.97	.70
LM4041DEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23	455.00/1,000		
LM4041DIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23	1.09	.80	.58
LM4041DIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23	377.00/1,000		
LM4041DIM3-ADJCT-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23	1.09	.80	.58
LM4041DIM3-ADJTR-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23	377.00/1,000		
LM4041DIZ-ADJ-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%	TO-92	1.09	.80	.58
LM4041DIZ-1.2-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%	TO-92	1.09	.80	.58
LM4041EEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	1.05	.77	.56
LM4041EEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	364.00/1,000		
LM4041EIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	.99	.72	.52
LM4041EIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	308.00/1,000		
LM4041EIZ-1.2-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%	TO-92	.99	.72	.52
LM4050AIM3-2.5CT-ND	2.5V, Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AIM3-2.5TR-ND	2.5V, Voltage Reference	SOT-23	1499.40/1,000		
LM4050AIM3-4.1CT-ND	4.1V, Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AIM3-4.1TR-ND	4.1V, Voltage Reference	SOT-23	1499.40/1,000		
LM4050AIM3-5.0CT-ND	5V, Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AIM3-5.0TR-ND	5V, Voltage Reference	SOT-23	1499.40/1,000		
LM4050AIM3-8.2CT-ND	8.2V, Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AIM3-8.2TR-ND	8.2V, Voltage Reference	SOT-23	1499.40/1,000		
LM4050AIM3-10CT-ND	10V, Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AIM3-10TR-ND	10V, Voltage Reference	SOT-23	1499.40/1,000		
LM4050BIM3-2.5CT-ND	2.5V, Voltage Reference	SOT-23	2.42	1.80	1.33
LM4050BIM3-2.5TR-ND	2.5V, Voltage Reference	SOT-23	998.40/1,000		
LM4050BIM3-4.1CT-ND	4.1V, Voltage Reference	SOT-23	2.42	1.80	1.33
LM4050BIM3-4.1TR-ND	4.1V, Voltage Reference	SOT-23	998.40/1,000		
LM4050BIM3-5.0CT-ND	5V, Voltage Reference	SOT-23	2.42	1.80	1.33
LM4050BIM3-5.0TR-ND	5V, Voltage Reference	SOT-23	998.40/1,000		
LM4050BIM3-8.2CT-ND	8.2V, Voltage Reference	SOT-23	2.42	1.80	1.33
LM4050BIM3-8.2TR-ND	8.2V, Voltage Reference	SOT-23	998.40/1,000		
LM4050BIM3-10CT-ND	10V, Voltage Reference	SOT-23	2.42	1.80	1.33
LM4050BIM3-10TR-ND	10V, Voltage Reference	SOT-23	998.40/1,000		
LM4050CEM3-2.5CT-ND	2.5V, Voltage Reference	SOT-23	2.60	1.94	1.43
LM4050CEM3-2.5TR-ND	2.5V, Voltage Reference	SOT-23	1075.20/1,000		
LM4050CIM3-2.5CT-ND	2.5V, Voltage Reference	SOT-23	1.92	1.43	1.06
LM4050CIM3-2.5TR-ND	2.5V, Voltage Reference	SOT-23	793.60/1,000		
LM4050CIM3-4.1CT-ND	4.1V, Voltage Reference	SOT-23	1.92	1.43	1.06
LM4050CIM3-4.1TR-ND	4.1V, Voltage Reference	SOT-23	793.60/1,000		
LM4050CIM3-5.0CT-ND	5V, Voltage Reference	SOT-23	1.92	1.43	1.06
LM4050CIM3-5.0TR-ND	5V, Voltage Reference	SOT-23	793.60/1,000		
LM4050CIM3-8.2CT-ND	8.2V, Voltage Reference	SOT-23	1.92	1.43	1.06
LM4050CIM3-8.2TR-ND	8.2V, Voltage Reference	SOT-23	793.60/1,000		
LM4050CIM3-10CT-ND	10V, Voltage Reference	SOT-23	1.92	1.43	1.06
LM4050CIM3-10TR-ND	10V, Voltage Reference	SOT-23	793.60/1,000		
LM4051AIM3-ADJCT-ND	Adj., Voltage Reference	SOT-23	2.98	2.27	1.73
LM4051AIM3-ADJTR-ND	Adj., Voltage Reference	SOT-23	1499.40/1,000		
LM4051AIM3-1.2CT-ND	1.2V, Voltage Reference	SOT-23	2.98	2.27	1.73
LM4051AIM3-1.2TR-ND	1.2V, Voltage Reference	SOT-23	1499.40/1,000		
LM4051BIM3-ADJCT-ND	Adj., Voltage Reference	SOT-23	2.36	1.75	1.30
LM4051BIM3-ADJTR-ND	Adj., Voltage Reference	SOT-23	972.80/1,000		
LM4051BIM3-1.2CT-ND	1.2V, Voltage Reference	SOT-23	2.36	1.75	1.30
LM4051BIM3-1.2TR-ND	1.2V, Voltage Reference	SOT-23	972.80/1,000		
LM4051CIM3-ADJCT-ND	Adj., Voltage Reference	SOT-23	2.14	1.59	1.18
LM4051CIM3-ADJTR-ND	Adj., Voltage Reference	SOT-23	883.20/1,000		
LM4051CIM3-1.2CT-ND	1.2V, Voltage Reference	SOT-23	2.14	1.59	1.18
LM4051CIM3-1.2TR-ND	1.2V, Voltage Reference	SOT-23	883.20/1,000		
LM4120AIM5-1.8CT-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-1.8TR-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-2.0TR-ND	2V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-2.5TR-ND	2.5V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-3.0CT-ND	3V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-3.0TR-ND	3V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-3.3CT-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-3.3TR-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-4.1CT-ND	4.1V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-4.1TR-ND	4.1V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-5.0CT-ND	5V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-5.0TR-ND	5V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120IM5-1.8CT-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	2.51	1.87	1.38
LM4120IM5-1.8TR-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	1036.80/1,000		
LM4120IM5-2.0CT-ND	2V, Precision Micropower LDO Reference	SOT-23-5	2.51	1.87	1.38
LM4120IM5-2.0TR-ND	2V, Precision Micropower LDO Reference	SOT-23-5	1036.80/1,000		
LM4120IM5-2.5CT-ND	2.5V, Precision Micropower LDO Reference	SOT-23-5	2.51	1.87	1.38
LM4120IM5-2.5TR-ND	2.5V, Precision Micropower LDO Reference	SOT-23-5	1036.80/1,000		
LM4120IM5-3.0CT-ND	3V, Precision Micropower LDO Reference	SOT-23-5	2.51	1.87	1.38
LM4120IM5-3.0TR-ND	3V, Precision Micropower LDO Reference	SOT-23-5	1036.80/1,000		
LM4120IM5-3.3CT-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	2.51	1.87	1.38
LM4120IM5-3.3TR-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	1036.80/1,000		
LM4120IM5-4.1CT-ND	4.1V, Precision Micropower LDO Reference	SOT-23-5	2.51	1.87	1.38
LM4120IM5-4.1TR-ND	4.1V, Precision Micropower LDO Reference	SOT-23-5	1036.80/1,000		
LM4120IM5-5.0CT-ND	5V, Precision Micropower LDO Reference	SOT-23-5	2.51	1.87	1.38
LM4120IM5-5.0TR-ND	5V, Precision Micropower LDO Reference	SOT-23-5	1036.80/1,000		
LM4121AIM5-ADJCT-ND	Adj., Precision Micropower LDO Volt. Reference	SOT-23-5	2.95	2.19	1.62
LM4121AIM5-ADJTR-ND	Adj., Precision Micropower LDO Volt. Reference	SOT-23-5	1216.00/1,000		
LM4121AIM5-1.2CT-ND	1.2V, Precision Micropower LDO Volt. Reference	SOT-23-5	2.95	2.19	1.62
LM4121AIM5-1.2TR-ND	1.2V, Precision Micropower LDO Volt. Reference	SOT-23-5	1216.00/1,000		
LM4121IM5-ADJCT-ND	Adj., Precision Micropower LDO Volt. Reference	SOT-23-5	2.51	1.87	1.38
LM4121IM5-ADJTR-ND	Adj., Precision Micropower LDO Volt. Reference	SOT-23-5	1036.80/1,000		
LM4121IM5-1.2CT-ND	1.2V, Precision Micropower LDO Volt. Reference	SOT-23-5	2.51	1.87	1.38
LM4121IM5-1.2TR-ND	1.2V, Precision Micropower LDO Volt. Reference	SOT-23-5	1036.80/1,000		
LM4130AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	6.99	5.53	4.43
LM4130AIM5-2.5TR-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	4129.20/1,000		
LM4130AIM5-4.1CT-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	6.99	5.53	4.43
LM4130AIM5-4.1TR-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	4129.20/1,000		
LM4130BIM5-2.0TR-ND	2V, Precision Micropower LDO Volt. Reference	SOT-23-5	2872.80/1,000		
LM4130BIM5-2.5CT-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	5.70	4.34	3.31
LM4130BIM5-2.5TR-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	2872.80/1,000		
LM4130BIM5-4.1CT-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	5.70	4.34	3.31
LM4130BIM5-4.1TR-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	2872.80/1,000		
LM4130CIM5-2.0TR-ND	2V, Precision Micropower LDO Volt. Reference	SOT-23-5	2394.00/1,000		
LM4130CIM5-2.5CT-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	4.75	3.61	2.76
LM4130CIM5-2.5TR-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	2394.00/1,000		
LM4130CIM5-4.1CT-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	4.75	3.61	2.76
LM4130CIM5-4.1TR-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	2394.00/1,000		
LM4130DIM5-2.5CT-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	3.60	2.74	2.09
LM4130DIM5-2.5TR-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	1814.40/1,000		
LM4130DIM5-4.1CT-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	3.60	2.74	2.09
LM4130DIM5-4.1TR-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	1814.40/1,000		
LM4130EIM5-2.0CT-ND	2V, Precision Micropower LDO Volt. Reference	SOT-23-5	3.20	2.44	1.86
LM4130EIM5-2.0TR-ND	2V, Precision Micropower LDO Volt. Reference	SOT-23-5	1612.80/1,000		
LM4130EIM5-2.5CT-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	3.20	2.44	1.86
LM4130EIM5-2.5TR-ND	2.5V, Precision Micropower LDO Volt. Reference	SOT-23-5	1612.80/1,000		
LM4130EIM5-4.1CT-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	3.20	2.44	1.86
LM4130EIM5-4.1TR-ND	4.1V, Precision Micropower LDO Volt. Reference	SOT-23-5	1612.80/1,000		
LM4140BCM-1.0-ND	1V, Precision Micropower LDO Volt. Reference	8-SOIC	5.69	4.50	3.61
LM4140BCM-1.2-ND	1.2V, Precision Micropower LDO Volt. Reference	8-SOIC	5.69	4.50	3.61
LM4140BCM-2.0-ND	2V, Precision Micropower LDO Volt. Reference	8-SOIC	5.69	4.50	3.61
LM4140BCM-2.5-ND	2.5V, Precision Micropower LDO Volt. Reference	8-SOIC	5.69	4.50	3.61
LM4140BCM-4.1-ND	4.1V, Precision Micropower LDO Volt. Reference	8-SOIC	5.69	4.50	3.61
LM4140CCM-1.0-ND	1V, Precision Micropower LDO Volt. Reference	8-SOIC	3.58	2.72	2.08
LM4140CCM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4140CCM-2.0-ND	2V, Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4140CCM-2.5-ND	Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4140CCM-4.1-ND	Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4250CM-ND	Programmable Op Amp	8-SOIC	1.50	1.10	.80
LM4250CMXTR-ND	Programmable Op Amp	8-SOIC	1275.00/2,500		
LM4250CN-ND	Programmable Op Amp	8-Dip	1.54	1.13	.82
LM4431M3-2.5CT-ND	Precision Voltage Micropower Shunt Voltage Reference	SOT-23	1.13	.83	.60
LM4431M3-2.5TR-ND	Precision Voltage Micropower Shunt Voltage Reference	SOT-23	390.00/1,000		
LM4549VH-ND	AC ‘97 Rev 2.1 Codec with Sample Rate Conversion and National 3D Sound	48-LQFP	5.99	4.74	3.80
LM4550VH-ND	AC ’97 Rev 2.1 Multi-Channel Audio Codec with Stereo Headphone Amp, Sample Rate Conversion and National 3D Sound	48-LQFP	5.15	3.92	2.99
LM4651N-ND	170W Class D Audio Power Amp Solution	28-Dip	6.49	5.13	4.11
LM4652TA-ND	170W Class D Audio Power Amp Solution	TO-220-15	5.48	4.34	3.48

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4652TF-ND	170W Class D Audio Power Amp Solution	TO-220-15	5.48	4.34	3.48
LM4663MT-ND	2W Stereo Class D Audio Power Amp with Stereo Headphones Amp	24-TSSOP	3.60	2.74	2.09
LM4700T-ND	30W Audio Pwr Amp with Mute & Standby Modes	TO-220-11	4.28	3.25	2.48
LM4700TF-ND	Overture 30W Audio Power Amp with Mute/Standby	TO-220	4.40	3.35	2.56
LM4701T-ND	30W Audio Pwr Amp with Mute & Standby Modes	TO-220-9	2.78	2.11	1.61
LM4752T-ND	11 Watt Stereo Audio Amp	TO-220-7	2.67	1.98	1.47
LM4755T-ND	11 Watt Stereo Audio Amp with Mute	TO-220-9	2.67	1.98	1.47
LM4765T-ND	30W Audio Power Amp with Mute & Standby Modes	TO-220-15	4.75	3.61	2.76
LM4766T-ND	Dual 40W Audio Power Amp with Mute	TO-220-15	5.00	3.80	2.90
LM4766TF-ND	Dual 30W Audio Power Amp with Mute	TO-220-15	5.00	3.80	2.90
LM4808LDCT-ND	Dual 105mW Headphone Amp	8-LLP	.94	.69	.50
LM4808LDTR-ND	Dual 105mW Headphone Amp	8-LLP	325.00/1,000		
LM4808M-ND	Dual 105mW Headphone Amp	8-SOIC	1.09	.80	.58
LM4808MMCT-ND	Dual 105mW Headphone Amp	8-MSOP	1.09	.80	.58
LM4808MMTR-ND	Dual 105mW Headphone Amp	8-MSOP	377.00/1,000		
LM4811LDCT-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-LLP	1.77	1.32	.97
LM4811LDTR-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-LLP	729.60/1,000		
LM4811MMCT-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-MSOP	1.77	1.32	.97
LM4811MMTR-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-MSOP	729.60/1,000		
LM4820M-6-ND	1 Watt Audio Power Amplifier	8-SOIC	2.14	1.59	1.18
LM4832M-ND	Digital Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-SOIC	5.96	4.72	3.78
LM4832N-ND	Digital Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-Dip	5.96	4.72	3.78
LM4834MS-ND	1.75W Audio Power Amp with DC Volume Control and Microphone Preamp	28-SSOP	4.75	3.61	2.76
LM4835MT-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-TSSOP	4.28	3.25	2.48
LM4835MTE-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-TSSOP	5.00	3.80	2.90
LM4836MT-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-TSSOP	4.28	3.25	2.48
LM4836MTE-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-TSSOP	5.00	3.80	2.90
LM4839MT-ND	2 Watt Audio Power Amp	28-TSSOP	4.28	3.25	2.48
LM4853MMCT-ND	Mono 1.5W/Stereo 300mW Power Amp	10-MSOP	2.57	1.91	1.42
LM4853MMTR-ND	Mono 1.5W/Stereo 300mW Power Amp	10-MSOP	1062.40/1,000		
LM4860M-ND	Series 1W Audio Power Amp with Shutdown Mode	16-SOIC	1.74	1.29	.96
LM4861M-ND	1.1W Audio Power Amp with Shutdown Mode	8-SOIC	1.74	1.29	.96
LM4861MXTR-ND	1.1W Audio Power Amp with Shutdown Mode	8-SOIC	1750.00/2,500		
LM4862M-ND	675mW Audio Power Amp with Shutdown Mode	8-SOIC	1.64	1.22	.91
LM4863M-ND	Dual 2.2W Audio Amp Plus Headphone Function	16-SOIC	3.20	2.44	1.86
LM4863MT-ND	Dual 2.2W Audio Amp + Headphone Function	20-TSSOP	3.15	2.40	1.83
LM4863MTE-ND	Dual 2.2W Audio Amp + Headphone Function	20-TSSOP	3.60	2.74	2.09
LM4863N-ND	Dual 2.2W Audio Amp Plus Headphone Function	16-Dip	3.58	2.72	2.08
LM4864LDCT-ND	725mW Audio Power Amp with Shutdown Mode	10-LLP	1.58	1.16	.84
LM4864LDTR-ND	725mW Audio Power Amp with Shutdown Mode	10-LLP	546.00/1,000		
LM4864M-ND	300mW Audio Power Amp with Shutdown Mode	8-SOIC	1.58	1.16	.84
LM4864MMCT-ND	300mW Audio Power Amp with Shutdown Mode	8-MSOP	1.61	1.19	.86
LM4864MMTR-ND	300mW Audio Power Amp with Shutdown Mode	8-MSOP	559.00/1,000		
LM4864MMXTR-ND	300mW Audio Power Amp with Shutdown Mode	8-MSOP	1918.88/3,500		
LM4864N-ND	300mW Audio Power Amp with Shutdown Mode	8-Dip	1.58	1.16	.84
LM4865IBPCT-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-MicroSMD	1.98	1.48	1.09
LM4865IBPTR-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-MicroSMD	216.00/250		
LM4865M-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-SOIC	1.80	1.34	.99
LM4865MMCT-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-MSOP	1.80	1.34	.99
LM4865MMTR-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-MSOP	742.40/1,000		
LM4867MT-ND	Dual 2.1 Watt Audio Amplifier	20-TSSOP	3.28	2.49	1.90
LM4871LDCT-ND	3W Audio Power Amp with Shutdown Mode	8-LLP	1.65	1.21	.88
LM4871LDTR-ND	3W Audio Power Amp with Shutdown Mode	8-LLP	572.00/1,000		
LM4871M-ND	3W Audio Power Amp with Shutdown Mode	8-SOIC	1.61	1.19	.86
LM4871MMCT-ND	3W Audio Power Amp with Shutdown Mode	8-MSOP	1.64	1.22	.91
LM4871MMTR-ND	3W Audio Power Amp with Shutdown Mode	8-MSOP	678.40/1,000		
LM4871N-ND	3W Audio Power Amp with Shutdown Mode	8-Dip	1.77	1.32	.97
LM4872IBPCT-ND	1W Audio Power Amp in Micro SMD Pkg	8-MicroSMD	1.92	1.43	1.06
LM4872IBPTR-ND	1W Audio Power Amp in Micro SMD Pkg	8-MicroSMD	209.25/250		
LM4873MT-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	20-TSSOP	2.85	2.17	1.66
LM4873MTE-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	20-TSSOP	3.60	2.74	2.09
LM4873MTE-1-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	28-TSSOP	5.35	4.07	3.11
LM4876M-ND	1.1W Audio Power Amp with Logic Low Shutdown	8-SOIC	1.35	.99	.72
LM4876MMCT-ND	1.1W Audio Power Amp with Logic Low Shutdown	10-MSOP	1.77	1.32	.97
LM4876MMTR-ND	1.1W Audio Power Amp with Logic Low Shutdown	10-MSOP	729.60/1,000		
LM4877IBPCT-ND	1W Audio Power Amp with Logic Low Shutdown	8-MicroSMD	2.08	1.55	1.14
LM4877IBPTR-ND	1W Audio Power Amp with Logic Low Shutdown	8-MicroSMD	226.13/250		
LM4880M-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-SOIC	2.08	1.55	1.14
LM4880N-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-Dip	2.23	1.66	1.23
LM4881M-ND	Dual 200mW Headphone Amp with Shutdown Mode	8-SOIC	1.98	1.48	1.09
LM4881MMTR-ND	Dual 200mW Headphone Amp with Shutdown Mode	8-MSOP	819.20/1,000		
LM4881N-ND	Dual 200mW Headphone Amp with Shutdown Mode	8-Dip	1.98	1.48	1.09
LM4882M-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-SOIC	1.61	1.19	.86
LM4882MMCT-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-MSOP	1.61	1.19	.86
LM4882MMTR-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-MSOP	559.00/1,000		
LM4890IBPCT-ND	1 Watt Audio Power Amp	8-MicroSMD	2.36	1.75	1.30
LM4890IBPTR-ND	1 Watt Audio Power Amp	8-MicroSMD	256.50/250		
LM4890M-ND	1 Watt Audio Power Amp	8-SOIC	2.36	1.75	1.30
LM4890MMCT-ND	1 Watt Audio Power Amp	8-MSOP	2.36	1.75	1.30
LM4890MMTR-ND	1 Watt Audio Power Amp	8-MSOP	972.80/1,000		
LM4890MXTR-ND	1 Watt Audio Power Amp	8-SOIC	2375.00/2,500		
LM4894MMCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-LLP	2.36	1.75	1.30
LM4894MMTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-LLP	972.80/1,000		
LM4900MMCT-ND	265mW at 3.3V Supply Audio Power Amp w/Shutdown	8-MSOP	1.80	1.32	.96
LM4900MMTR-ND	265mW at 3.3V Supply Audio Power Amp w/Shutdown	8-MSOP	624.00/1,000		
LM4901MMCT-ND	1.6W Audio Power Amplifier with Selectable Shutdown Logic Level	10-MSOP	2.54	1.89	1.40
LM4901MMTR-ND	1.6W Audio Power Amplifier with Selectable Shutdown Logic Level	10-MSOP	1049.60/1,000		
LM4910MA-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-SOIC	2.20	1.64	1.21
LM4910MMCT-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-MSOP	2.20	1.64	1.21
LM4910MMTR-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-MSOP	908.80/1,000		
LM6132AIM-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-SOIC	3.95	3.01	2.30
LM6132AIN-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-Dip	3.95	3.01	2.30
LM6132BIM-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-SOIC	2.98	2.27	1.73
LM6132BIN-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-Dip	2.98	2.27	1.73
LM6134AIM-ND	Quad High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	14-SOIC	4.25	3.23	2.47
LM6134AIN-ND	Quad High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	14-Dip	4.25	3.23	2.47
LM6134BIM-ND	Quad Low Power 10MHz, R-R, I/O, Op Amp	14-SOIC	3.45	2.63	2.01
LM6134BIMXTR-ND	Quad Low Power 10MHz, R-R, I/O, Op Amp	14-SOIC	4312.50/2,500		
LM6134BIN-ND	Quad High Speed/Low Power, 7MHz, Rail-to-Rail Op Amp	14-Dip	3.45	2.63	2.01
LM6142AIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp	8-SOIC	5.10	3.88	2.96
LM6142BIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp	8-SOIC	4.55	3.46	2.64
LM6144AIN-ND	Quad High Speed/Low Power Rail-to-Rail Op Amp	14-Dip	6.64	5.25	4.21
LM6144BIM-ND	Quad High Speed/Low Power 17MHz Rail-to-Rail Op Amp	14-SOIC	6.08	4.62	3.53
LM6152ACM-ND	Dual High Speed 75MHz, R-R, I/O, Op Amp, Vos = 4mV	8-SOIC	4.38	3.33	2.54
LM6152BCM-ND	Dual High Speed 75MHz, R-R, I/O, Op Amp, Vos = 4mV	8-SOIC	3.53	2.68	2.05
LM6154BCM-ND	Quad High Speed 75MHz, R-R, I/O, Op Amp, Vos = 7mV	14-SOIC	5.71	4.52	3.62
LM6171AIM-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-SOIC	3.30	2.51	1.92
LM6171BIM-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-SOIC	2.83	2.15	1.64
LM6171BIN-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-Dip	2.83	2.15	1.64
LM6172IM-ND	Dual High Speed Low Power, Low Distortion, Voltage Feedback Op Amp	8-SOIC	3.80	2.89	2.21
LM6172IMXCT-ND	Dual High Speed Low Power, Low Distortion, Voltage Feedback Op Amp	8-SOIC	3.80	2.89	2.21
LM6172IMXTR-ND	Dual High Speed Low Power, Low Distortion, Voltage Feedback Op Amp	8-SOIC	4750.00/2,500		
LM6172IN-ND	Dual High Speed Low Power, Low Distortion, Voltage Feedback Op Amp	8-Dip	3.80	2.89	2.21
LM6181IM-8-ND	100mA, 100MHz Current Feedback Amp	8-SOIC	2.98	2.27	1.73
LM6181IN-ND	Current Feedback Amp, 100MHz	8-Dip	3.07	2.28	1.69
LM6511IM-ND	180nS, 3V, Comparator	8-SOIC	2.58	1.96	1.50
LM7121IM-ND	235MHz Tiny Low Power Voltage Feedback Amp	8-SOIC	2.85	2.12	1.57
LM7121IM5CT-ND	235MHz Tiny Low Power Voltage Feedback Amp	SOT-23-5	2.91	2.17	1.60
LM7121IM5TR-ND	235MHz Tiny Low Power Voltage Feedback Amp	SOT-23-5	1203.20/1,000		
LM7171AIM-ND	Very High Speed High Output Voltage Feedback Amp, A Grade	8-SOIC	3.20	2.44	1.86
LM7171AIN-ND	Very High Speed High Output Volt. Feedback Amp, A Grade	8-Dip	3.20	2.44	1.86
LM7171BIM-ND	Very High Speed High Output Voltage Feedback Amp	8-SOIC	2.80	2.13	1.63
LM7171BIMXTR-ND	Very High Speed High Output Voltage Feedback Amp	8-SOIC	3500.00/2,500		
LM7171BIN-ND	Very High Speed High Output Voltage Feedback Amp	8-Dip	2.80	2.13	1.63
LM7301IM-ND	Low Power, 4MHz GBW, R-R, I/O Op Amp in TinyPak	8-SOIC	2.29	1.71	1.26
LM7301IM5CT-ND	Low Power, 4MHz GBW, R-R, I/O Op Amp	SOT-23-5	2.29	1.71	1.26
LM7301IM5TR-ND	Low Power, 4MHz GBW Rail-to-Rail, I/O Op Amp	SOT-23-5	947.20/1,000		
LM7372ILDCT-ND	Dual High Speed, High Output Current Op Amp	8-LLP	4.48	3.41	2.60
LM7372ILDTR-ND	Dual High Speed, High Output Current Op Amp	8-LLP	2255.40/1,000		
LM7372IMA-ND	Dual High Speed, High Output Current Op Amp	16-SOIC	4.70	3.58	2.73
LM7372MR-ND	Dual High Speed, High Output Current Op Amp	8-PSOP	4.70	3.58	2.73
LM7808CT-ND	8V, 1.0A Positive Voltage Regulator	TO-220	.90	.65	.47
LM7905CTNS-ND	5V, 1.5A Negative Voltage Regulator	TO-220	.72	.52	.38
LM7912CT-ND	12V, 1.5A Negative Voltage Regulator	TO-220	.72	.52	.38
LM7915CT-ND	15V, 1.5A Negative Voltage Regulator	TO-220	.72	.52	.38
LM8261M5CT-ND	R-R, In/Out, High Op Current and Unlimited Cap Load Op Amp	SOT-23-5	2.95	2.19	1.62
LM8261M5TR-ND	R-R, In/Out, High Op Current and Unlimited Cap Load Op Amp	SOT-23-5	1216.00/1,000		
LM9040M-ND	Dual Lambda Sensor Interface Amplifier	14-SOIC	6.32	5.00	4.01
LM9044V-ND	Lambda Sensor Interface Amplifier	20-PLCC	3.25	2.47	1.89
LM9061M-ND	MOSFET Driver with Loss Protection	8-SOIC	1.83	1.36	1.01
LM9070T-ND	LDO Volt. Reg. with Keep-Alive ON/OFF Control	TO-220-7	2.48	1.84	1.36
LM9071T-ND	LDO Voltage Regulator with Delayed Reset	TO-220-5	2.51	1.87	1.38
LM9822CCWM-ND	3-Channel, 42-Bit, Color Scanner Analog Front End	28-SOIC	9.35	7.39	5.92
LM9830VJD-ND	36-Bit, Color Document Scanner	100-TQFP	13.30	11.40	10.11
LM9833CCVJD-ND	48-Bit, Color 1200dpi USB Image Scanner	100-TQFP	13.13	11.25	9.98
LM12454CIV-ND	12-Bit, and Sign Data Acquisition System with Self-Calibration	44-PLCC	20.55	19.18	17.81
LM12458CIV-ND	12-Bit, and Sign Data Acquisition	44-PLCC	20.55	19.18	17.81
LM12458CIVF-ND	12-Bit, and Sign Data Acquisition System with Self-Calibration	44-PQFP	21.75	20.30	18.85
LM13700N-ND	Dual Operational Transconductance Amp	16-Dip	1.69	1.24	.90
LMC555CBPCT-ND	CMOS Timer	8-MicroSMD	1.01	.75	.54
LMC555CBPTR-ND	CMOS Timer	8-MicroSMD	101.25/250		
LMC555CM-ND	CMOS Timer	8-SOIC	.63	.46	.34
LMC555CMXTR-ND	CMOS Timer	8-SOIC	402.50/2,500		
LMC555CMMCT-ND	CMOS Timer, In Small Package	8-MSOP	1.20	.88	.64
LMC555CMMTR-ND	CMOS Timer, In Small Package	8-MSOP	416.00/1,000		
LMC555CN-ND	CMOS Timer	8-Dip	.59	.43	.31
LMC567CM-ND	CMOS Tone Decoder Phase Lock Loop	8-SOIC	1.89	1.41	1.04
LMC567CMXTR-ND	CMOS Tone Decoder Phase Lock Loop	8-SOIC	1906.25/2,500		
LMC567CN-ND	CMOS Tone Decoder Phase Lock Loop	8-Dip	1.89	1.41	1.04
LMC568CN-ND	CMOS Low Power Phase Lock Loop	8-Dip	2.17	1.61	1.19
LMC660AIM-ND	Quad CMOS Op Amp, Industrial Temperature	14-SOIC	2.18	1.62	1.20
LMC660AIMXTR-ND	Quad CMOS Op Amp, Industrial Temperature	14-SOIC	2193.75/2,500		
LMC660AIN-ND	Quad CMOS Op Amp, Industrial Temperature	14-Dip	2.31	1.72	1.27
LMC660CM-ND	Quad CMOS Op Amp	14-SOIC	1.75	1.30	.96
LMC660CMXTR-ND	Quad CMOS Op Amp	14-SOIC	1759.38/2,500		
LMC660CN-ND	Quad CMOS Op Amp	14-Dip	1.88	1.40	1.04
LMC662AIM-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC	2.02	1.50	1.11
LMC662AIMXTR-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC	2031.25/2,500		
LMC662AIN-ND	Dual CMOS Op Amp	8-Dip	2.12	1.58	1.17
LMC662CM-ND	Dual CMOS Op Amp	8-SOIC	1.83	1.36	1.01
LMC662CMXTR-ND	Dual CMOS Op Amp	8-SOIC	1840.63/2,500		
LMC662CN-ND	Dual CMOS Op Amp	8-Dip	1.96	1.46	1.08
LMC6001AIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	12.25	10.50	9.31
LMC6001BIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	8.93	7.06	5.66
LMC6001CIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	3.28	2.49	1.90
LMC6024IM-ND	Micropower Quad CMOS Op Amp	14-SOIC	1.83	1.36	1.01

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMC6032IM-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC	.98	.72	.52
LMC6032IN-ND	Dual CMOS Op Amp, Industrial Temperature	8-Dip	1.09	.80	.58
LMC6034IM-ND	Quad CMOS Op Amp	14-SOIC	1.13	.83	.60
LMC6035IBPCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MicroSMD	1.80	1.32	.96
LMC6035IBPTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MicroSMD	180.00/250		
LMC6035IBPXCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MicroSMD	1.80	1.32	.96
LMC6035IBPXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MicroSMD	1836.00/3,000		
LMC6035IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-SOIC	1.80	1.32	.96
LMC6035IMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-SOIC	1530.00/2,500		
LMC6035IMMCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2.08	1.55	1.14
LMC6035IMMTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	857.60/1,000		
LMC6035IMMXCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2.08	1.55	1.14
LMC6035IMMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2931.25/3,500		
LMC6036IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp	14-SOIC	2.11	1.57	1.16
LMC6036IMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	14-SOIC	2125.00/2,500		
LMC6041AIM-ND	Single CMOS Micropower Op Amp	8-SOIC	2.23	1.66	1.23
LMC6041AIN-ND	Single CMOS Micropower Op Amp	8-Dip	2.42	1.80	1.33
LMC6041IM-ND	Single CMOS Micropower Op Amp	8-SOIC	1.77	1.32	.97
LMC6041IN-ND	Single CMOS Micropower Op Amp	8-SOIC	1.83	1.36	1.01
LMC6042AIM-ND	Dual CMOS Micropower Op Amp	8-SOIC	2.95	2.19	1.62
LMC6042AIN-ND	Dual CMOS Micropower Op Amp	8-Dip	3.01	2.24	1.65
LMC6042IM-ND	Dual CMOS Micropower Op Amp	8-SOIC	2.23	1.66	1.23
LMC6042IN-ND	Dual CMOS Micropower Op Amp	8-Dip	2.26	1.68	1.25
LMC6044AIM-ND	Quad CMOS Micropower Op Amp	14-SOIC	2.83	2.15	1.64
LMC6044AIN-ND	Quad CMOS Micropower Op Amp	Dip-14	2.90	2.21	1.69
LMC6044IM-ND	Quad CMOS Micropower Op Amp	14-SOIC	2.76	2.05	1.52
LMC6044IN-ND	Quad CMOS Micropower Op Amp	Dip-14	2.76	2.05	1.52
LMC6061AIM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	2.11	1.57	1.16
LMC6061IM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	1.84	1.35	.98
LMC6062AIM-ND	Precision Dual CMOS Micropower Op Amp	8-SOIC	3.10	2.36	1.80
LMC6062AIN-ND	Precision Dual CMOS Micropower Op Amp	8-Dip	3.25	2.47	1.89
LMC6062IM-ND	Precision Dual CMOS Micropower Op Amp	8-SOIC	2.67	1.98	1.47
LMC6062IN-ND	Precision Dual CMOS Micropower Op Amp	8-Dip	2.88	2.14	1.59
LMC6064AIM-ND	Precision Quad CMOS Micropower Op Amp	14-SOIC	6.05	4.60	3.51
LMC6064AIN-ND	Precision Quad CMOS Micropower Op Amp	14-Dip	6.18	4.70	3.59
LMC6064IM-ND	Precision Quad CMOS Micropower Op Amp	14-SOIC	3.78	2.87	2.19
LMC6064IN-ND	Precision Quad CMOS Micropower Op Amp	14-Dip	3.95	3.01	2.30
LMC6081AIM-ND	Precision Single CMOS Op Amp	8-SOIC	4.23	3.22	2.46
LMC6081AIN-ND	Precision Single CMOS Op Amp	8-Dip	4.23	3.22	2.46
LMC6081IM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	2.63	2.00	1.53
LMC6081IN-ND	Precision Single CMOS Op Amp	8-Dip	2.63	2.00	1.53
LMC6082AIM-ND	Precision Dual CMOS Op Amp	8-SOIC	5.93	4.51	3.44
LMC6082AIN-ND	Precision Dual CMOS Op Amp	8-Dip	5.93	4.51	3.44
LMC6082IM-ND	Precision Dual CMOS Op Amp	8-SOIC	2.60	1.98	1.51
LMC6082IN-ND	Precision Dual CMOS Op Amp	8-Dip	2.60	1.98	1.51
LMC6084AIM-ND	Precision Dual CMOS Micropower Op Amp	14-SOIC	7.48	5.91	4.74
LMC6084AIN-ND	Precision Dual Op Amp	14-Dip	7.48	5.91	4.74
LMC6084IN-ND	Precision Dual Op Amp	14-Dip	3.68	2.80	2.14
LMC6442AIM-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-SOIC	2.63	2.00	1.53
LMC6442IM-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-SOIC	3.01	2.24	1.65
LMC6442IN-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-Dip	3.01	2.24	1.65
LMC6462AIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-SOIC	3.03	2.30	1.76
LMC6462AIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-Dip	3.10	2.36	1.80
LMC6462BIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-SOIC	2.98	2.21	1.64
LMC6462BIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-Dip	2.58	1.96	1.50
LMC6464AIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-SOIC	4.80	3.65	2.79
LMC6464AIN-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-Dip	4.88	3.71	2.83
LMC6464BIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-SOIC	4.10	3.12	2.38
LMC6464BIN-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-Dip	4.28	3.25	2.48
LMC6482AIM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.29	1.71	1.26
LMC6482AIN-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-Dip	2.29	1.71	1.26
LMC6482IM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	1.86	1.38	1.02
LMC6482IMMCT-ND	Dual CMOS R/R, Input and Output Op Amp	8-MSOP	2.39	1.78	1.31
LMC6482IMMTR-ND	Dual CMOS R/R, Input and Output Op Amp	8-MSOP	985.60/1,000		
LMC6482IN-ND	Dual CMOS R/R, Input and Output Op Amp	8-Dip	2.05	1.52	1.13
LMC6484AIM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.88	2.95	2.25
LMC6484AIMXTR-ND	Quad CMOS Micropower, Rail-to-Rail, I/O Op Amp	14-SOIC	4843.75/2,500		
LMC6484AIN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-Dip	4.48	3.41	2.60
LMC6484IM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	2.90	2.21	1.69
LMC6484IMXTR-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3625.00/2,500		
LMC6484IN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-Dip	2.88	2.19	1.67
LMC6492AEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.68	2.04	1.56
LMC6492BEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.64	1.96	1.45
LMC6494AEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	5.75	4.55	3.65
LMC6494BEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.78	2.87	2.19
LMC6762AIM-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC	3.00	2.28	1.74
LMC6762BIM-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC	2.50	1.90	1.45
LMC6762BIMXTR-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC	3125.00/2,500		
LMC6772AIM-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-SOIC	3.00	2.28	1.74
LMC6772AIMMCT-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-MSOP	3.00	2.28	1.74
LMC6772AIMMTR-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-MSOP	1512.00/1,000		
LMC6772AIN-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-Dip	3.00	2.28	1.74
LMC6772BIM-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-SOIC	2.50	1.90	1.45
LMC6772BIN-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-Dip	2.50	1.90	1.45
LMC6953CM-ND	PCI Local Bus Power Supervisor	8-SOIC	3.53	2.68	2.05
LMC7101AIM5XTR-ND	Tiny Low Power Op Amp w/Rail-to-Rail, Input/Output	SOT-23-5	2212.50/3,000		
LMC7111AIN-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output	8-Dip	1.69	1.24	.90
LMC7111BIM5XTR-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output	SOT-23-5	1530.00/3,000		
LMC7111BIN-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output	8-Dip	1.50	1.10	.80
LMC7211AIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input	8-SOIC	1.77	1.32	.97
LMC7211AIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	1.77	1.32	1.32
LMC7211AIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	729.60/1,000		
LMC7211BIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input	8-SOIC	1.80	1.32	.96
LMC7211BIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	1.80	1.32	.96
LMC7211BIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	624.00/1,000		
LMC7215IM-ND	Micropower Rail-to-Rail CMOS Comparator with Open-Drain/Push-Pull Output	8-SOIC	1.58	1.18	.87
LMC7215IMXTR-ND	Micropower Rail-to-Rail CMOS Comparator with Open-Drain/Push-Pull Output	8-SOIC	1593.75/2,500		
LMC7215IM5CT-ND	Micropower Rail-to Rail CMOS Comparator with Push-Pull/Open-Drain Outputs	SOT-23-5	1.58	1.18	.87
LMC7215IM5TR-ND	Micropower Rail-to Rail CMOS Comparator with Push-Pull/Open-Drain Outputs	SOT-23-5	652.80/1,000		
LMC7221AIM-ND	Tiny CMOS Comp. with Rail-to-Rail Input & Open Drain	8-SOIC	2.08	1.55	1.14
LMC7221BIM-ND	Tiny CMOS Comp. with Rail-to-Rail Input & Open Drain	8-SOIC	1.58	1.13	.60
LMC7221BIM5CT-ND	Tiny CMOS Comp. with Rail-to-Rail I/O Drain Output	SOT-23-5	1.61	1.20	.89
LMC7221BIM5TR-ND	Tiny CMOS Comp. with Rail-to-Rail I/O Drain Output	SOT-23-5	665.60/1,000		
LMC7225IM5CT-ND	Micropower CMOS Comparator with Rail-to-Rail, Open-Drain/Push-Pull Output	SOT-23-5	1.58	1.18	.87
LMC7225IM5TR-ND	Micropower CMOS Comparator with Rail-to-Rail, Open-Drain/Push-Pull Output	SOT-23-5	652.80/1,000		
LMC7660IM-ND	Switched Capacitor Voltage Converter	8-SOIC	1.28	.94	.68
LMC7660IMXTR-ND	Switched Capacitor Voltage Converter	8-SOIC	1083.75/2,500		
LMC7660IN-ND	Switched Capacitor Voltage Converter	8-Dip	1.28	.94	.68
LMC8101BPCT-ND	R/R, Input and Output, 2.7V, Op Amp	8-MicroSMD	1.54	1.13	.82
LMC8101BPTR-ND	Rail-to-Rail, Input and Output, 2.7V, Op Amp	8-MicroSMD	153.75/250		
LMC8101BPXTR-ND	Rail-to-Rail, Input and Output, 2.7V, Op Amp	8-MicroSMD	1568.25/3,000		
LMC8101MMCT-ND	Rail-to-Rail, Input and Output, 2.7V, Op Amp	8-MicroSMD	1.54	1.13	.82
LMC8101MMTR-ND	Rail-to-Rail, Input and Output, 2.7V, Op Amp	8-MicroSMD	533.00/1,000		
LMD18200T-ND	55V, 3A H Bridge	TO-220	11.69	10.02	8.89
LMD18201T-ND	55V, 3A H Bridge	TO-220	10.69	9.17	8.13
LMD18245T-ND	55V, 3A DMOS H Bridge Motor Driver	TO-220	13.04	11.18	9.91
LMD18400N-ND	60V, 3A DMOS Quad High Side Driver	20-Dip	10.40	8.22	6.59
LMF100CCN-ND	Dual Switched Capacitor Filter	20-Dip	5.60	4.26	3.25
LMF100CIWM-ND	High Performance Dual Switched Capacitor Filter	20-SOIC	5.58	4.24	3.24
LMH6560MA-ND	Quad, High Speed, Closed Loop Buffer *NEW!*	14-SOIC	6.68	5.09	4.23
LMH6560MT-ND	Quad, High Speed, Closed Loop Buffer *NEW!*	14-TSSOP	6.68	5.09	4.23
LMH6622MA-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-SOIC	4.40	3.35	2.56
LMH6622MMCT-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	4.40	3.35	2.56
LMH6622MMTR-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	2217.60/1,000		
LMH6624MA-ND	Dual Wideband, Ultra Low Noise Op Amp *NEW!*	8-SOIC	3.98	3.03	2.31
LMH6628MA-ND	Dual Wideband, Low Noise, Volt. Feedback Op Amp	8-SOIC	4.70	3.58	2.73
LMH6639MA-ND	190MHz R/R Output Amp with Disable	8-SOIC	2.60	1.98	1.51
LMH6639MFCT-ND	190MHz R/R Output Amp with Disable	SOT-23-6	2.60	1.98	1.51
LMH6639MFTR-ND	190MHz R/R Output Amp with Disable	SOT-23-6	1310.40/1,000		
LMH6642MA-ND	Low Power, 3V, Single Supply, R-R Op Amp	8-SOIC	2.20	1.64	1.21
LMH6643MA-ND	3V, Low Power, 130MHz, R/R Output Amp	8-SOIC	2.67	1.98	1.47
LMH6643MMCT-ND	3V, Low Power, 130MHz, R/R Output Amp	8-MSOP	2.67	1.98	1.47
LMH6643MMTR-ND	3V, Low Power, 130MHz, R/R Output Amp	8-MSOP	1100.80/1,000		
LMH6644MA-ND	3V, Low Power, 130MHz, 75mA Rail-to-Rail Output Amplifier	14-SOIC	3.53	2.68	2.05
LMH6644MT-ND	3V, Low Power, 130MHz, 75mA Rail-to-Rail Output Amplifier	14-TSSOP	3.53	2.68	2.05
LMH6645MA-ND	2.7V, Rail-to-Rail, In/Out Amplifier with Shutdown	8-SOIC	2.98	2.27	1.73
LMH6645MFCT-ND	2.7V, Rail-to-Rail, In/Out Amplifier with Shutdown	SOT-23-5	2.98	2.27	1.73
LMH6645MFTR-ND	2.7V, Rail-to-Rail, In/Out Amplifier with Shutdown	SOT-23-5	1499.40/1,000		
LMH6646MA-ND	2.7V, Rail-to-Rail, In/Out Amplifier with Shutdown	8-SOIC	4.73	3.60	2.75
LMH6647MA-ND	2.7V, Rail-to-Rail, In/Out Amplifier with Shutdown	8-SOIC	3.20	2.44	1.86
LMH6654MA-ND	Single, Low Power, 250MHz, Low Noise Amp	8-SOIC	2.33	1.73	1.28
LMH6654MFCT-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	2.33	1.73	1.28
LMH6654MFTR-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	960.00/1,000		
LMH6655MA-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-SOIC	2.50	1.90	1.45
LMH6655MMCT-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-MSOP	2.50	1.90	1.45
LMH6655MMTR-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-MSOP	1260.00/1,000		
LMH6658MA-ND	270MHz, Dual, High Speed, Low Noise Op Amp	8-SOIC	2.88	2.14	1.59
LMH6672MA-ND	Dual, High Output Current, High Speed Op Amp	8-SOIC	4.70	3.58	2.73
LMH6672MR-ND	Dual, High Output Current, High Speed Op Amp	8-PSOP	4.70	3.58	2.73
LMH6682MA-ND	Dual, 190MHz Single Supply Op Amp *NEW!*	8-SOIC	2.70	2.01	1.48
LMH6683MA-ND	Triple, 190MHz Single Supply Op Amp *NEW!*	14-SOIC	3.30	2.51	1.92
LMH6683MT-ND	Triple, 190MHz Single Supply Op Amp *NEW!*	14-TSSOP	3.30	2.51	1.92
LMH6702MA-ND	720MHz, Ultra Low Distortion, Wideband Op Amp *NEW!*	8-SOIC	3.55	2.70	2.06
LMH6714MA-ND	Single, 400MHz, Wideband Video Op Amp with Shutdown *NEW!*	8-SOIC	3.08	2.34	1.79
LMH6715MA-ND	Dual, Wideband Video Op Amp	8-SOIC	4.03	3.06	2.34
LMH6718MA-ND	Dual, High Output Programmable Gain Buffer	8-SOIC	4.48	3.41	2.60
LMH6720MA-ND	Single, 400MHz, Wideband Video Op Amp with Shutdown *NEW!*	8-SOIC	3.23	2.46	1.88
LMH6722MA-ND	Quad, Wideband Video Amp *NEW!*	14-SOIC	5.35	4.07	3.11
LMH6732MA-ND	High Speed OP Amp with Adjustable Bandwidth *NEW!*	8-SOIC	5.73	4.54	3.64
LMS1585ACS-ADJ-ND	Adj. 5A LDO Fast Response Reg.	TO-263	1.80	1.32	.96
LMS1585ACS-3.3-ND	3.3V, 5A LDO Fast Response Reg.	TO-263	1.80	1.32	.96
LMS1585ACT-ADJ-ND	Adj. 5A LDO Fast Response Reg.	TO-220	1.80	1.32	.96
LMS1585ACT-3.3-ND	3.3V, 5A LDO Fast Response Reg.	TO-220	1.80	1.32	.96
LMS1585AIS-ADJ-ND	Adj. 5A LDO Fast Response Reg., Ind. Temp.	TO-263	2.17	1.61	1.19
LMS1585AIS-3.3-ND	3.3V, 5A LDO Fast Response Reg., Ind. Temp.	TO-263	2.17	1.61	1.19
LMS1585AIT-ADJ-ND	Adj. 5A LDO Fast Response Reg., Ind. Temp.	TO-220	2.17	1.61	1.19
LMS1585AIT-1.5-ND	1.5V, 5A, LDO Fast Response Reg., Ind. Temp.	TO-220	2.17	1.61	1.19
LMS1585AIT-3.3-ND	3.3V, 5A LDO Fast Response Reg., Ind. Temp.	TO-220	2.17	1.61	1.19
LMS1587CS-ADJ-ND	Adj. 3A LDO Fast Response Reg.	TO-263	1.80	1.32	.96
LMS1587CS-1.5-ND	1.5V, 3A LDO Fast Response Reg.	TO-263	1.80	1.32	.96
LMS1587CT-ADJ-ND	Adj. 3A LDO Fast Response Reg.	TO-220	1.80	1.32	.96
LMS1587CT-3.3-ND	3.3V, 3A LDO Fast Response Reg.	TO-220	1.80	1.32	.96
LMS1587IS-ADJ-ND	Adj. 3A LDO Fast Response Reg., Ind. Temp.	TO-263	1.83	1.36	1.01
LMS1587IS-3.3-ND	3.3V, 3A LDO Fast Response Reg., Ind. Temp.	TO-263	1.83	1.36	1.01
LMS1587IT-ADJ-ND	Adj. 3A LDO Fast Response Reg., Ind. Temp.	TO-220	1.83	1.36	1.01
LMS1587IT-3.3-ND	3.3V, 3A LDO Fast Response Reg., Ind. Temp.	TO-220	1.83	1.36	1.01
LMS5213IM7-3.3CT-ND	80mA, LDO Voltage Regulator	SC-70-5	1.39	1.02	.74
LMS5213IM7-3.3TR-ND	80mA, LDO Voltage Regulator	SC-70-5	481.00/1,000		
LMV248LQCT-ND	Dual Band GSM Power Controller	16-LLP	2.64	1.96	1.45
LMV248LQTR-ND	Dual Band GSM Power Controller	16-LLP	1088.00/1,000		
LMV301MGCT-ND	Op Amp 1.8V, Low Input Bias, R/R Output	SC-70-5	.98	.72	.52
LMV301MGTR-ND	Op Amp 1.8V, Low Input Bias, R/R Output	SC-70-5	338.00/1,000		
LMV321M5CT-ND	Op Amp Low Voltage	SOT-23-5	.94	.69	.50
LMV321M5TR-ND	Op Amp Low Voltage	SOT-23-5	325.00/1,000		
LMV321M7CT-ND	Op Amp Low Voltage (2/3 the size of SOT-23)	SC-70-5	.98	.72	.52
LMV321M7TR-ND	Op Amp Low Voltage (2/3 the size of SOT-23)	SC-70-5	338.00/1,000		
LMV324M-ND	Low Power Quad Op Amp Low Voltage	14-SOIC	1.05	.77	.56
LMV324MXTR-ND	Low Power Quad Op Amp Low Voltage	14-SOIC	892.50/2,500		
LMV324MT-ND	Low Power Quad Op Amp Low Voltage	14-TSSOP	1.09	.80	.58
LMV331M5CT-ND	Single General Purpose, Low Volt, TinyPack Comp.	SOT-23-5	.94	.69	.50
LMV331M5TR-ND	Single General Purpose, Low Volt, TinyPack Comp.	SOT-23-5	325.00/1,000		

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMV331M5XCT-ND	General Purpose Low Volt. TinyPack Comparator	SOT-23-5	.94	.69	.50
LMV331M5XTR-ND	General Purpose Low Volt. TinyPack Comparator	SOT-23-5	956.25/3,000		
LMV331M7TR-ND	General Purpose Low Volt. TinyPack Comparator	SC-70-5	338.00/1,000		
LMV331M7XCT-ND	General Purpose Low Volt. TinyPack Comparator	SC-70-5	.98	.72	.52
LMV331M7XTR-ND	General Purpose Low Volt. TinyPack Comparator	SC-70-5	994.50/3,000		
LMV339M-ND	Quad General Purpose, Low Volt, TinyPack Comp.	14-SOIC	364.00/1,000		
LMV339MT-ND	Quad General Purpose, Low Volt, TinyPack Comp.	14-TSSOP	1.09	.80	.58
LMV358M-ND	Low Power Dual Op Amp, Low Voltage	8-SOIC	.94	.69	.50
LMV358MXTR-ND	Low Power Dual Op Amp, Low Voltage	8-SOIC	796.88/2,500		
LMV358MMCT-ND	Low Power Dual Op Amp, Low Voltage	8-MSOP	.98	.72	.52
LMV358MMTR-ND	Low Power Dual Op Amp, Low Voltage	8-MSOP	338.00/1,000		
LMV393M-ND	Dual General Purpose Low Volt, TinyPack Comp.	8-SOIC	.94	.69	.50
LMV393MMCT-ND	Dual General Purpose Low Volt, TinyPack Comp.	8-MSOP	.98	.72	.52
LMV393MMTR-ND	Dual General Purpose Low Volt, TinyPack Comp.	8-MSOP	338.00/1,000		
LMV393MMXCT-ND	Dual General Purpose Low Volt, TinyPack Comp.	8-MSOP	.98	.72	.52
LMV393MMXTR-ND	General Purpose Low Volt. TinyPack Comparator	8-MSOP	1160.25/3,500		
LMV431ACM5CT-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	SOT-23-5	.60	.44	.32
LMV431ACM5TR-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	SOT-23-5	187.60/1,000		
LMV431ACZ-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	TO-92	.60	.44	.32
LMV431AIM5CT-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	SOT-23-5	.81	.59	.43
LMV431AIM5TR-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	SOT-23-5	250.60/1,000		
LMV431AIZ-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	TO-92	.81	.59	.43
LMV431CM5CT-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	SOT-23-5	.60	.44	.32
LMV431CM5TR-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	SOT-23-5	187.60/1,000		
LMV431CZ-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	TO-92	.60	.44	.32
LMV431IM5CT-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	SOT-23-5	.69	.51	.37
LMV431IM5TR-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	SOT-23-5	215.60/1,000		
LMV431IZ-ND	Low-Volt (1.24V) Adj. Precision Shunt Reg.	TO-92	.69	.51	.37
LMV710M5CT-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option	SOT-23-5	1.64	1.22	.91
LMV710M5TR-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option	SOT-23-5	678.40/1,000		
LMV711M6CT-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option	SOT-23-6	1.77	1.32	.97
LMV711M6TR-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option	SOT-23-6	729.60/1,000		
LMV712BLCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp w/Independent Shutdown	10-Micro SMD	2.17	1.61	1.19
LMV712BLTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp w/Independent Shutdown	10-Micro SMD	236.25/250		
LMV712LDCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp w/Independent Shutdown	10-LLP	2.23	1.66	1.23
LMV712LDTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp w/Independent Shutdown	10-LLP	921.60/1,000		
LMV712MMCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp w/Independent Shutdown	10-MSOP	1.83	1.36	1.01
LMV712MMTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp w/Independent Shutdown	10-MSOP	755.20/1,000		
LMV721M5CT-ND	Low Noise, Low Volt, 10MHz, Low Power Op Amp	SOT-23-5	1.74	1.29	.96
LMV721M5TR-ND	Low Noise, Low Volt, 10MHz, Low Power Op Amp	SOT-23-5	716.80/1,000		
LMV721M7CT-ND	Low Noise, Low Volt, 10MHz, Low Power Op Amp.	SC-70-5	1.74	1.29	.96
LMV721M7TR-ND	Low Noise, Low Volt, 10MHz, Low Power Op Amp.	SC-70-5	716.80/1,000		
LMV722M-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp	8-SOIC	2.23	1.66	1.23
LMV722MMCT-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp	8-MSOP	2.23	1.66	1.23
LMV722MMTR-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp	8-MSOP	921.60/1,000		
LMV751M5CT-ND	Low Noise, Low Volt., Single Op Amp	SOT-23-5	1.92	1.43	1.06
LMV751M5TR-ND	Low Noise, Low Volt., Single Op Amp	SOT-23-5	793.60/1,000		
LMV761MFCT-ND	Low Volt. Prec. Comparator w/Push-Pull Output	SOT-23-6	1.55	1.15	.85
LMV761MFTR-ND	Low Volt. Prec. Comparator w/Push-Pull Output	SOT-23-6	640.00/1,000		
LMV762MA-ND	Low Volt. Prec. Comparator w/Push-Pull Output	8-SOIC	2.33	1.73	1.28
LMV762MMCT-ND	Low Volt. Prec. Comparator w/Push-Pull Output	8-MSOP	2.33	1.73	1.28
LMV762MMTR-ND	Low Volt. Prec. Comparator w/Push-Pull Output	8-MSOP	960.00/1,000		
LMV821M5CT-ND	Low Voltage, Low Power, Rail-to-Rail Output Op Amp.	SOT-23-5	1.31	.97	.70
LMV821M5TR-ND	Low Voltage, 5MHz, Low Power, R-R, Output Op Amp	SOT-23-5	455.00/1,000		
LMV821M7CT-ND	Low Voltage, 5MHz, Low Power, R-R, Output Op Amp.	SC-70-5	1.35	.99	.72
LMV821M7TR-ND	Low Voltage, 5MHz, Low Power, R-R, Output Op Amp.	SC-70-5	468.00/1,000		
LMV822M-ND	Low Voltage, 5MHz, Low Power, R-R, Output Op Amp	8-SOIC	1.58	1.16	.84
LMV822MMCT-ND	Dual Low Volt, 5MHz, Low Power, R/R, Output Op Amp	8-MSOP	1.61	1.19	.86
LMV822MMTR-ND	Dual Low Volt, 5MHz, Low Power, R/R, Output Op Amp	8-MSOP	559.00/1,000		
LMV822MXCT-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp.	8-SOIC	1.58	1.16	.84
LMV822MXTR-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp.	8-SOIC	1338.75/2,500		
LMV822MMXTR-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp	8-MSOP	1918.88/3,500		
LMV824M-ND	Quad Low Volt, 5MHz, Low Power, R/R, Output Op Amp	14-SOIC	1.84	1.35	.98
LMV824MT-ND	Quad Low Volt, 5MHz, Low Pwr, R/R, Output Op Amp.	14-TSSOP	1.84	1.35	.98
LMV931MFCT-ND	Single 1.8V R/R, In/Out, Op Amp	SOT-23-5	1.58	1.16	.84
LMV931MFTR-ND	Single 1.8V R/R, In/Out, Op Amp	SOT-23-5	546.00/1,000		
LMV931MGCT-ND	Single 1.8V R/R, In/Out, Op Amp	SC-70-5	1.58	1.16	.84
LMV931MGTR-ND	Single 1.8V R/R, In/Out, Op Amp	SC-70-5	546.00/1,000		
LMV932MMCT-ND	Dual 1.8V R/R, In/Out, Op Amp	8-MSOP	1.73	1.27	.92
LMV932MMTR-ND	Dual 1.8V R/R, In/Out, Op Amp	8-MSOP	598.00/1,000		
LMV934MT-ND	Quad 1.8V R/R, In/Out, Op Amp	14-TSSOP	1.74	1.29	.96
LMV981BLCT-ND	1.8V R/R, In/Out, Op Amp with Shutdown	6-microSMD	1.69	1.24	.90
LMV981BLTR-ND	1.8V R/R, In/Out, Op Amp with Shutdown	6-microSMD	168.75/250		
LMV981MFCT-ND	1.8V R/R, In/Out, Op Amp with Shutdown	SOT-23-6	1.69	1.24	.90
LMV981MFTR-ND	1.8V R/R, In/Out, Op Amp with Shutdown	SOT-23-6	585.00/1,000		
LMV981MGCT-ND	1.8V R/R, In/Out, Op Amp with Shutdown.	SC-70-6	1.69	1.24	.90
LMV981MGTR-ND	1.8V R/R, In/Out, Op Amp with Shutdown.	SC-70-6	630.00/1,000		
LMV7219M5CT-ND	7nS, 2.7V to 5V Comparator with R/R, Output	SOT-23-5	2.63	2.00	1.53
LMV7219M5TR-ND	7nS, 2.7V to 5V Comparator with R/R, Output	SOT-23-5	1323.00/1,000		
LMV7219M7CT-ND	7nS, 2.7V to 5V Comparator with R/R, Output	SC-70-5	2.63	2.00	1.53
LMV7219M7TR-ND	7nS, 2.7V to 5V Comparator with R/R, Output	SC-70-5	1323.00/1,000		
LMV7235M5CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SOT-23-5	1.67	1.25	.92
LMV7235M5TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SOT-23-5	691.20/1,000		
LMV7235M7CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SC-70-5	1.67	1.25	.92
LMV7235M7TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SC-70-5	691.20/1,000		
LMV7239M7CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SC-70-5	1.67	1.25	.92
LMV7239M7TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SC-70-5	691.20/1,000		
LMX1600TM-ND	Dual Low Cost Frequency Synthesizer	16-TSSOP	2.29	1.71	1.26
LMX1601TM-ND	Platinum Low Cost Dual Frequency Synthesizer	16-TSSOP	1.98	1.48	1.09
LMX1601TMXTR-ND	Platinum Low Cost Dual Frequency Synthesizer	16-TSSOP	2000.00/2,500		
LMX2306TM-ND	550MHz Low Power Frequency Synthesizer for RF Personal Communications	16-TSSOP	2.75	2.09	1.60
LMX2316TM-ND	1.2GHz Low Power Frequency Synthesizer for RF Personal Communications	16-TSSOP	2.83	2.15	1.64
LMX2324TM-ND	2.0GHz Frequency Synthesizer for RF Personal Communications.	16-TSSOP	2.85	2.17	1.66
LMX2326SLBXCT-ND	2.8GHz Platinum Frequency Synthesizer for RF Communications *NEW!*	16-Laminate CSP	3.33	2.53	1.93
LMX2326SLBXTR-ND	2.8GHz Platinum Frequency Synthesizer for RF Communications *NEW!*	16-Laminate CSP	4156.25/2,500		
LMX2326TM-ND	2.8GHz Platinum Frequency Synthesizer for RF Communications	16-TSSOP	3.20	2.44	1.86
LMX2330LTM-ND	Low Power Dual Frequency Synthesizer for RF Personal Communications	20-TSSOP	3.50	2.66	2.03
LMX2331LTM-ND	Low Power Dual Frequency Synthesizer for RF Personal Communications	20-TSSOP	3.03	2.30	1.76
LMX2332LTM-ND	Low Power Dual Frequency Synthesizer for RF Personal Communications	20-TSSOP	2.60	1.98	1.51
LMX2335LTM-ND	Low Power Dual Frequency Synthesizer for RF Personal Communications	16-TSSOP	3.05	2.27	1.68
LMX2335LTMXTR-ND	1.1GHz Dual Freq. Synthesizer for RF Communications	16-TSSOP	3075.00/2,500		
LMX2336LTM-ND	Low Power Dual Frequency Synthesizer for RF Personal Communications	20-TSSOP	3.28	2.49	1.90
LMX2350TM-ND	Fractional N RF/ Integer N IF Dual Low Power Frequency Synthesizer	24-TSSOP	6.10	4.64	3.54
LMX2352TM-ND	Dual Low Power Frequency Synthesizer.	24-TSSOP	5.53	4.20	3.21
LMX2352TMXCT-ND	Dual Low Power Frequency Synthesizer.	24-TSSOP	5.53	4.20	3.21
LMX2352TMXTR-ND	Dual Low Power Frequency Synthesizer.	24-TSSOP	6906.25/2,500		
LMX2354TM-ND	Platinum Frequency Synthesizer	24-TSSOP	3.98	3.03	2.31
LP324M-ND	Micropower Quad Op Amp	14-SOIC	1.04	.75	.55
LP324MT-ND	Micropower Quad Op Amp	14-TSSOP	1.39	1.02	.74
LP324MXTR-ND	Micropower Quad Op Amp	14-SOIC	764.75/2,500		
LP324N-ND	Micropower Quad Op Amp	14-Dip	.94	.69	.50
LP339M-ND	Ultra-Low Power Quad Comparator	14-SOIC	.90	.65	.47
LP339MXTR-ND	Ultra-Low Power Quad Comparator	14-SOIC	665.00/2,500		
LP339NNS-ND	Ultra-Low Power Quad Comparator	14-Dip	1.31	.97	.70
LP395Z-ND	Ultra Reliable Power Transistor	TO-92	1.62	1.20	.87
LP2902M-ND	Micropower Quad Operational Amplifier.	14-SOIC	1.84	1.35	.98
LP2902MXTR-ND	Micropower Quad Operational Amplifier.	14-SOIC	1561.88/2,500		
LP2902N-ND	Micropower Quad Operational Amplifier	14-Dip	1.84	1.35	.98
LP2950ACZ-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator.	TO-92	1.13	.83	.60
LP2950ACZ-3.3-ND	3.3V, Series Adjustable Micropower Voltage Regulator.	TO-92	1.13	.83	.60
LP2950ACZ-5.0-ND	5V, Micropower Voltage Regulator	TO-92	1.13	.83	.60
LP2950CDT-5.0-ND	Adjustable Micropower Voltage Regulator	D-Pak	1.20	.88	.64
LP2950CZ-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator.	TO-92	.98	.72	.52
LP2950CZ-3.3-ND	3.3V, Adj. Micropower Voltage Regulator.	TO-92	.98	.72	.52
LP2950CZ-5.0-ND	5V, Micropower Voltage Regulator	TO-92	.98	.72	.52
LP2951ACM-ND	1.24-29V, Adjustable Voltage Regulator	8-SOIC	.98	.72	.52
LP2951ACMXTR-ND	1.24-29V, Adjustable Voltage Regulator	8-SOIC	828.75/2,500		
LP2951ACM-3.0-ND	3V, Series Adj. Micropower Voltage Regulator	8-SOIC	.98	.72	.52
LP2951ACM-3.3-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-SOIC	.98	.72	.52
LP2951ACMM-3.0CT-ND	3V, Series Adj. Micropower Voltage Regulator	8-MSOP	1.24	.91	.66
LP2951ACMM-3.0TR-ND	3V, Series Adj. Micropower Voltage Regulator	8-MSOP	429.00/1,000		
LP2951ACMM-3.3CT-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-MSOP	1.24	.91	.66
LP2951ACMM-3.3TR-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-MSOP	429.00/1,000		
LP2951ACMMCT-ND	Series Adj. Micropower Voltage Regulator	8-MSOP	1.24	.91	.66
LP2951ACMMTR-ND	Series Adj. Micropower Voltage Regulator	8-MSOP	429.00/1,000		
LP2951ACN-ND	1.24-29V, Adjustable Micropower Voltage Regulator.	8-Dip	1.05	.77	.56
LP2951ACN-3.3-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-Dip	1.05	.77	.56
LP2951CM-ND	1.24-29V, Adjustable Micropower Voltage Regulator	8-SOIC	1.04	.75	.55
LP2951CMXTR-ND	1.24-29V, Adjustable Micropower Voltage Regulator	8-SOIC	764.75/2,500		
LP2951CM-3.0-ND	3V, Series Adj. Micropower Voltage Regulator	8-SOIC	1.04	.75	.55
LP2951CM-3.3-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-SOIC	1.04	.75	.55
LP2951CMM-3.0CT-ND	3V, Series Adj. Micropower Voltage Regulator	8-MSOP	1.13	.83	.60
LP2951CMM-3.0TR-ND	3V, Series Adj. Micropower Voltage Regulator	8-MSOP	390.00/1,000		
LP2951CMM-3.3CT-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-MSOP	1.13	.83	.60
LP2951CMM-3.3TR-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-MSOP	390.00/1,000		
LP2951CMMCT-ND	Series Adj. Micropower Voltage Regulator	8-MSOP	1.13	.83	.60
LP2951CMMTR-ND	Series Adj. Micropower Voltage Regulator	8-MSOP	390.00/1,000		
LP2951CN-ND	Adjustable Micropower Voltage Regulator.	8-Dip	1.13	.83	.60
LP2951CN-3.0-ND	3V, Series Adj. Micropower Voltage Regulator	8-Dip	1.13	.83	.60
LP2951CN-3.3-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-Dip	1.13	.83	.60
LP2952AIM-3.3-ND	3.3V, Adj. LDO Voltage Regulator	16-SOIC	3.50	2.66	2.03
LP2952AIM-ND	Adj. LDO Voltage Regulator	16-SOIC	3.50	2.66	2.03
LP2952AIN-3.3-ND	3.3V, Adj. LDO Voltage Regulator	14-Dip	3.50	2.66	2.03
LP2952IM-ND	250mA Low Power Adjustable Voltage Regulator	16-SOIC	2.57	1.91	1.42
LP2952IM-3.3-ND	3.3V, Adj. LDO Voltage Regulator	16-SOIC	2.57	1.91	1.42
LP2952IN-3.3-ND	3.3V, Adj. LDO Voltage Regulator	14-Dip	2.57	1.91	1.42
LP2953AIM-ND	250mA Low Power Adj. Voltage Reg (Elect. Improved)	16-SOIC	4.23	3.22	2.46
LP2953IM-ND	250mA Low Power Adjustable Voltage Regulator	16-SOIC	3.01	2.24	1.65
LP2953IN-ND	250mA Low Power Adjustable Voltage Regulator	16-Dip	3.01	2.24	1.65
LP2954AIS-ND	Adj. Micropower LDO Voltage Regulator	TO-263	4.30	3.27	2.50
LP2954AIT-ND	5.0V, Micropower Low Dropout Voltage Regulator.	TO-220	4.30	3.27	2.50
LP2954IS-ND	5A Micropower LDO Voltage Regulator	TO-263	3.98	3.03	2.31
LP2954IT-ND	5.0V, Low Power Voltage Regulator.	TO-220	3.98	3.03	2.31
LP2956AIM-ND	Dual Micropower LDO Voltage Regulator	16-SOIC	4.30	3.27	2.50
LP2956AIN-ND	Dual Micropower LDO Voltage Regulator	16-Dip	4.45	3.39	2.59
LP2956IM-ND	Dual Micropower LDO Voltage Regulator	16-SOIC	3.08	2.34	1.79
LP2957AIS-ND	5V, LDO Reg for Micropower Application	TO-263-5	3.83	2.91	2.22
LP2957AIT-ND	5.0V, LDO Reg for Micropower Application	TO-220-5	3.83	2.91	2.22
LP2957IS-ND	5.0V, LDO Reg for Micropower Application	TO-263-5	3.03	2.30	1.76
LP2960IM-5.0-ND	5.0V, .5A Micropower LDO Regulator, 160ppm	16-SOIC	3.01	2.24	1.65
LP2966IMM-1818CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.8V.	8-MSOP	2.33	1.73	1.28
LP2966IMM-1818TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.8V.	8-MSOP	960.00/1,000		
LP2966IMM-1833CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.3V.	8-MSOP	2.33	1.73	1.28
LP2966IMM-1833TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.3V.	8-MSOP	960.00/1,000		
LP2966IMM-2525CT-ND	Dual 150mA Ultra LDO Regulator, 2.5V/2.5V	8-MSOP	2.33	1.73	1.28
LP2966IMM-2525TR-ND	Dual 150mA Ultra LDO Regulator, 2.5V/2.5V.	8-MSOP	960.00/1,000		
LP2966IMM-2828CT-ND	Dual 150mA Ultra LDO Regulator, 2.8V/2.8V.	8-MSOP	2.33	1.73	1.28
LP2966IMM-2828TR-ND	Dual 150mA Ultra LDO Regulator, 2.8V/2.8V.	8-MSOP	960.00/1,000		

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP2966IMM-3030CT-ND	Dual 150mA Ultra LDO Regulator, 3V/3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3030TR-ND	Dual 150mA Ultra LDO Regulator, 3V/3V	8-MSOP	960.00/1,000		
LP2966IMM-3333CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3333TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.3V	8-MSOP	960.00/1,000		
LP2966IMM-3336CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.6V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3336TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.6V	8-MSOP	960.00/1,000		
LP2966IMM-3636CT-ND	Dual 150mA Ultra LDO Regulator, 3.6V/3.6V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3636TR-ND	Dual 150mA Ultra LDO Regulator, 3.6V/3.6V	8-MSOP	960.00/1,000		
LP2966IMM-5050CT-ND	Dual 150mA Ultra LDO Regulator, 5V/5V	8-MSOP	2.33	1.73	1.28
LP2966IMM-5050TR-ND	Dual 150mA Ultra LDO Regulator, 5V/5V	8-MSOP	960.00/1,000		
LP2975AIMM-12CT-ND	12V, MOSFET LDO Driver/Controller	8-MSOP	2.45	1.82	1.35
LP2975AIMM-12TR-ND	12V, MOSFET LDO Driver/Controller	8-MSOP	1011.20/1,000		
LP2975AIMM-3.3CT-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	2.45	1.82	1.35
LP2975AIMM-3.3TR-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	1011.20/1,000		
LP2975AIMM-5.0CT-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	2.45	1.82	1.35
LP2975AIMM-5.0TR-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	1011.20/1,000		
LP2975IMM-12CT-ND	12V, MOSFET LDO Driver/Controller	8-MSOP	2.20	1.64	1.21
LP2975IMM-12TR-ND	12V, MOSFET LDO Driver/Controller	8-MSOP	908.80/1,000		
LP2975IMM-3.3CT-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	2.20	1.64	1.21
LP2975IMM-3.3TR-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	908.80/1,000		
LP2975IMM-5.0CT-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	2.20	1.64	1.21
LP2975IMM-5.0TR-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	908.80/1,000		
LP2980AIBP-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	1.58	1.16	.84
LP2980AIBP-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	157.50/250		
LP2980AIBP-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	1.58	1.16	.84
LP2980AIBP-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	157.50/250		
LP2980AIM5-1.8CT-ND	1.8V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.05	.77	.56
LP2980AIM5-1.8TR-ND	1.8V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	364.00/1,000		
LP2980AIM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.05	.77	.56
LP2980AIM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	364.00/1,000		
LP2980AIM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.05	.77	.56
LP2980AIM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	364.00/1,000		
LP2980AIM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.05	.77	.56
LP2980AIM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	364.00/1,000		
LP2980AIM5-4.0CT-ND	4V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.05	.77	.56
LP2980AIM5-4.0TR-ND	4V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	364.00/1,000		
LP2980AIM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.05	.77	.56
LP2980AIM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	364.00/1,000		
LP2980IBP-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	1.50	1.10	.80
LP2980IBP-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	150.00/250		
LP2980IBP-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	1.50	1.10	.80
LP2980IBP-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	150.00/250		
LP2980IBPX-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	1530.00/3,000		
LP2980IM5-ADJCT-ND	Adj., Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.08	.78	.57
LP2980IM5-ADJTR-ND	Adj., Micropower 50mA Ultra LDO Regulator	SOT-23-5	336.00/1,000		
LP2980IM5-1.8CT-ND	1.8V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.08	.78	.57
LP2980IM5-1.8TR-ND	1.8V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	336.00/1,000		
LP2980IM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.08	.78	.57
LP2980IM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	336.00/1,000		
LP2980IM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.08	.78	.57
LP2980IM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	336.00/1,000		
LP2980IM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.08	.78	.57
LP2980IM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	336.00/1,000		
LP2980IM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.08	.78	.57
LP2980IM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	336.00/1,000		
LP2981AIBP-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	5-MicroSMD	1.76	1.30	.94
LP2981AIBP-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	5-MicroSMD	176.25/250		
LP2981AIBP-3.2CT-ND	3.2V, Micropower 100mA Ultra LDO Reg., A Grade	5-MicroSMD	1.76	1.30	.94
LP2981AIBP-3.2TR-ND	3.2V, Micropower 100mA Ultra LDO Reg., A Grade	5-MicroSMD	176.25/250		
LP2981AIBP-3.3CT-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade	5-MicroSMD	1.76	1.30	.94
LP2981AIBP-3.3TR-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade	5-MicroSMD	176.25/250		
LP2981AIM5-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.24	.91	.66
LP2981AIM5-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	429.00/1,000		
LP2981AIM5-3.0CT-ND	3V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.24	.91	.66
LP2981AIM5-3.0TR-ND	3V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	429.00/1,000		
LP2981AIM5-3.3CT-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.24	.91	.66
LP2981AIM5-3.3TR-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	429.00/1,000		
LP2981AIM5-4.0CT-ND	4V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.24	.91	.66
LP2981AIM5-4.0TR-ND	4V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	429.00/1,000		
LP2981AIM5-5.0CT-ND	5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.24	.91	.66
LP2981AIM5-5.0TR-ND	5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	429.00/1,000		
LP2981IBP-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Regulator	5-MicroSMD	1.69	1.24	.90
LP2981IBP-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Regulator	5-MicroSMD	168.75/250		
LP2981IBP-3.2CT-ND	3.2V, Micropower 100mA Ultra LDO Regulator	5-MicroSMD	1.69	1.24	.90
LP2981IBP-3.2TR-ND	3.2V, Micropower 100mA Ultra LDO Regulator	5-MicroSMD	168.75/250		
LP2981IBP-3.3CT-ND	3.3V, Micropower 100mA Ultra LDO Regulator	5-MicroSMD	1.69	1.24	.90
LP2981IBP-3.3TR-ND	3.3V, Micropower 100mA Ultra LDO Regulator	5-MicroSMD	168.75/250		
LP2981IM5-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.20	.88	.64
LP2981IM5-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	416.00/1,000		
LP2981IM5-3.0CT-ND	3V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.20	.88	.64
LP2981IM5-3.0TR-ND	3V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	416.00/1,000		
LP2981IM5-5.0CT-ND	5V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.20	.88	.64
LP2981IM5-5.0TR-ND	5V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	416.00/1,000		
LP2982AIBP-2.8CT-ND	2.8V, Micropower 50mA Ultra LDO Reg., A Grade	5-MicroSMD	1.65	1.21	.88
LP2982AIBP-2.8TR-ND	2.8V, Micropower 50mA Ultra LDO Reg., A Grade	5-MicroSMD	572.00/1,000		
LP2982AIBP-3.0CT-ND	3V, Micropower 50mA Ultra LDO Reg., A Grade	5-MicroSMD	1.65	1.21	.88
LP2982AIBP-3.0TR-ND	3V, Micropower 50mA Ultra LDO Reg., A Grade	5-MicroSMD	165.00/250		
LP2982AIM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.24	.91	.66
LP2982AIM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	429.00/1,000		
LP2982AIM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.24	.91	.66
LP2982AIM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	429.00/1,000		
LP2982AIM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.24	.91	.66
LP2982AIM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	429.00/1,000		
LP2982AIM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.24	.91	.66
LP2982AIM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	429.00/1,000		
LP2982IBP-2.8CT-ND	2.8V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	1.58	1.16	.84
LP2982IBP-2.8TR-ND	2.8V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	157.50/250		
LP2982IBP-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	1.58	1.16	.84
LP2982IBP-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator	5-MicroSMD	157.50/250		
LP2982IM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.20	.88	.64
LP2982IM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	416.00/1,000		
LP2982IM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.20	.88	.64
LP2982IM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	416.00/1,000		
LP2982IM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.20	.88	.64
LP2982IM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	416.00/1,000		
LP2982IM5-4.0CT-ND	4V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.20	.88	.64
LP2982IM5-4.0TR-ND	4V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	416.00/1,000		
LP2982IM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.20	.88	.64
LP2982IM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	416.00/1,000		
LP2985AIBL-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Reg.	MicroSMD	1.43	1.05	.76
LP2985AIBL-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Reg.	MicroSMD	142.50/250		
LP2985AIBP-2.5CT-ND	2.5V, Micropwr. 150mA LN Ultra LDO Reg, A Grade	5-MicroSMD	1.69	1.24	.90
LP2985AIBP-2.5TR-ND	2.5V, Micropwr. 150mA LN Ultra LDO Reg, A Grade	5-MicroSMD	168.75/250		
LP2985AIBP-2.8CT-ND	2.8V, Micropwr. 150mA LN Ultra LDO Reg, A Grade	5-MicroSMD	1.69	1.24	.90
LP2985AIBP-2.8TR-ND	2.8V, Micropwr. 150mA LN Ultra LDO Reg, A Grade	5-MicroSMD	168.75/250		
LP2985AIBP-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg, A Grade	5-MicroSMD	1.69	1.24	.90
LP2985AIBP-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg, A Grade	5-MicroSMD	168.75/250		
LP2985AIBP-3.3CT-ND	3.3V, Micropwr. 150mA LN Ultra LDO Reg, A Grade	5-MicroSMD	1.69	1.24	.90
LP2985AIBP-3.3TR-ND	3.3V, Micropwr. 150mA LN Ultra LDO Reg, A Grade	5-MicroSMD	168.75/250		
LP2985AIM5-2.5CT-ND	2.5V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	1.28	.94	.68
LP2985AIM5-2.5TR-ND	2.5V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	442.00/1,000		
LP2985AIM5-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Reg, A Grade	SOT-23-5	1.28	.94	.68
LP2985AIM5-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Reg, A Grade	SOT-23-5	442.00/1,000		
LP2985AIM5-2.9CT-ND	2.9V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	1.28	.94	.68
LP2985AIM5-2.9TR-ND	2.9V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	442.00/1,000		
LP2985AIM5-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	1.28	.94	.68
LP2985AIM5-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	442.00/1,000		
LP2985AIM5-3.3CT-ND	3.3V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	1.28	.94	.68
LP2985AIM5-3.3TR-ND	3.3V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	442.00/1,000		
LP2985AIM5-3.8CT-ND	3.8V, Micropower 150mA LN Ultra LDO Reg, A Grade	SOT-23-5	1.28	.94	.68
LP2985AIM5-3.8TR-ND	3.8V, Micropower 150mA LN Ultra LDO Reg, A Grade	SOT-23-5	442.00/1,000		
LP2985AIM5-4.0CT-ND	4.0V, Micropower 150mA LN Ultra LDO Reg, A Grade	SOT-23-5	1.28	.94	.68
LP2985AIM5-4.0TR-ND	4.0V, Micropower 150mA LN Ultra LDO Reg, A Grade	SOT-23-5	442.00/1,000		
LP2985AIM5-5.0CT-ND	5V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	1.28	.94	.68
LP2985AIM5-5.0TR-ND	5V, Micropower 150mA LN Ultra LDO Reg, A Grade.	SOT-23-5	442.00/1,000		
LP2985AIM5-5.3CT-ND	5.3V, Micropower 150mA LN Ultra LDO Reg, A Grade	SOT-23-5	1.28	.94	.68
LP2985AIM5-5.3TR-ND	5.3V, Micropower 150mA LN Ultra LDO Reg, A Grade	SOT-23-5	442.00/1,000		
LP2985IBP-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO Reg	5-MicroSMD	1.65	1.21	.88
LP2985IBP-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO Reg	5-MicroSMD	165.00/250		
LP2985IBP-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO Reg	5-MicroSMD	1.65	1.21	.88
LP2985IBP-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO Reg	5-MicroSMD	165.00/250		
LP2985IBP-3.0CT-ND	3V, Micropower 150mA Low Noise Ultra LDO Reg.	5-MicroSMD	1.65	1.21	.88
LP2985IBP-3.0TR-ND	3V, Micropower 150mA Low Noise Ultra LDO Reg.	5-MicroSMD	165.00/250		
LP2985IBP-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO Reg	5-MicroSMD	1.65	1.21	.88
LP2985IBP-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO Reg	5-MicroSMD	165.00/250		
LP2985IM5-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	1.24	.91	.66
LP2985IM5-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	429.00/1,000		
LP2985IM5-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	1.24	.91	.66
LP2985IM5-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	429.00/1,000		
LP2985IM5-2.9CT-ND	2.9V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	1.24	.91	.66
LP2985IM5-2.9TR-ND	2.9V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	429.00/1,000		
LP2985IM5-3.0CT-ND	3V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	1.24	.91	.66
LP2985IM5-3.0TR-ND	3V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	429.00/1,000		
LP2985IM5-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO Reg	SOT-23-5	1.24	.91	.66
LP2985IM5-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO Reg	SOT-23-5	429.00/1,000		
LP2985IM5-3.6CT-ND	3.6V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	1.24	.91	.66
LP2985IM5-3.6TR-ND	3.6V, Micropower 150mA Low Noise Ultra LDO Reg.	SOT-23-5	429.00/1,000		
LP2985IM5-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO Reg	SOT-23-5	1.24	.91	.66
LP2985IM5-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO Reg	SOT-23-5	429.00/1,000		
LP2986AIM-3.0-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-SOIC	2.36	1.75	1.30
LP2986AIM-3.3-ND	3.3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-SOIC	2.36	1.75	1.30
LP2986AIM-5.0-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-SOIC	2.36	1.75	1.30
LP2986AIMM-3.0CT-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	2.60	1.94	1.43
LP2986AIMM-3.0TR-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	1075.20/1,000		
LP2986AIMM-3.3CT-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg .5%	8-MSOP	2.60	1.94	1.43
LP2986AIMM-3.3TR-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg .5%	8-MSOP	1075.20/1,000		
LP2986AIMM-5.0CT-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	2.60	1.94	1.43
LP2986AIMM-5.0TR-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	1075.20/1,000		
LP2986ILD-3.3CT-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	2.48	1.84	1.36
LP2986ILD-3.3TR-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	1024.00/1,000		
LP2986IM-3.0-ND	3V, Micropower 200mA Ultra LDO Regulator, 1%	8-SOIC	2.20	1.64	1.21
LP2986IM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Regulator, 1%	8-SOIC	2.20	1.64	1.21
LP2986IM-5.0-ND	5V, Micropower 200mA Ultra LDO Regulator, 1%	8-SOIC	2.20	1.64	1.21
LP2986IMM-3.0CT-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	2.45	1.82	1.35
LP2986IMM-3.0TR-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	1011.20/1,000		
LP2986IMM-3.3CT-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg, 1%	8-MSOP	2.45	1.82	1.35
LP2986IMM-3.3TR-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg, 1%	8-MSOP	1011.20/1,000		
LP2986IMM-5.0CT-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	2.45	1.82	1.35
LP2986IMM-5.0TR-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	1011.20/1,000		
LP2987AIM-3.0-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.36	1.75	1.30
LP2987AIM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.36	1.75	1.30
LP2987AIMM-3.3CT-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.60	1.94	1.43
LP2987AIMM-3.3TR-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	1075.20/1,000		
LP2987AIM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.36	1.75	1.30
LP2987AIMM-5.0CT-ND	5.0V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.60	1.94	1.43
LP2987AIMM-5.0TR-ND	5.0V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	1075.20/1,000		
LP2987IM-3.0-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator with Program Power-On Reset Delay, 1%	8-SOIC	2.20	1.64	1.21
LP2987IM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.20	1.64	1.21
LP2987IM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.20	1.64	1.21
LP2987IMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator with Program Power-On Reset Delay, 1%	8-MSOP	2.45	1.82	1.35
LP2987IMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator with Program Power-On Reset Delay, 1%	8-MSOP	1011.20/1,000		
LP2987IMM-3.3CT-ND	3.3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy.	8-MSOP	2.45	1.82	1.35
LP2987IMM-3.3TR-ND	3.3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy.	8-MSOP	1011.20/1,000		
LP2987IMM-5.0CT-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy.	8-MSOP	2.45	1.82	1.35
LP2987IMM-5.0TR-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy.	8-MSOP	1011.20/1,000		
LP2988AIM-2.5-ND	2.5V, Micropower 200mA Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.45	1.82	1.35
LP2988AIM-3.0-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.45	1.82	1.35
LP2988AIM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.45	1.82	1.35
LP2988AIM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.45	1.82	1.35
LP2988AIMM-2.5CT-ND	2.5V, Micropower 200mA Ultra LDO Regulator with Program Power-On Reset Delay, .5%	8-MSOP	2.64	1.96	1.45

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2988AIMM-2.5TR-ND	2.5V, Micropower 200mA Ultra LDO Regulator with Program Power-On Reset Delay, .5%	8-MSOP	1088.00/1,000		
LP2988AIMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Regulator with Program Power-On Reset Delay, .5%	8-MSOP	2.64	1.96	1.45
LP2988AIMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Regulator with Program Power-On Reset Delay, .5%	8-MSOP	1088.00/1,000		
LP2988AIMM-3.3CT-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.64	1.96	1.45
LP2988AIMM-3.3TR-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	1088.00/1,000		
LP2988AIMM-5.0CT-ND	5.0V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.64	1.96	1.45
LP2988AIMM-5.0TR-ND	5.0V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	1088.00/1,000		
LP2988IM-2.5-ND	2.5V, Micropower 200mA Ultra LDO Regulator with Program Power-On Reset Delay, 1% Accuracy	8-SOIC	2.39	1.78	1.31
LP2988IM-3.0-ND	3V, Micropower 200mA Ultra LDO Regulator with Program Power-On Reset Delay, 1% Accuracy	8-SOIC	2.39	1.78	1.31
LP2988IM-3.3-ND	3.3V, 200mA Micropower Ultra LDO Reg., 1% Accuracy	8-SOIC	2.39	1.78	1.31
LP2988IM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Low Noise Regulator 1% Accuracy	8-SOIC	2.39	1.78	1.31
LP2988IMM-2.5CT-ND	2.5V, Micropower 200mA Ultra LDO Reg with Program Power-On Reset Delay	8-MSOP	2.54	1.89	1.40
LP2988IMM-2.5TR-ND	2.5V, Micropower 200mA Ultra LDO Reg with Program Power-On Reset Delay	8-MSOP	1049.60/1,000		
LP2988IMM-3.0CT-ND	3V, Micropower 200mA Ultra Low LDO Reg with Program Power-On Reset Delay	8-MSOP	2.54	1.89	1.40
LP2988IMM-3.0TR-ND	3V, Micropower 200mA Ultra Low LDO Reg with Program Power-On Reset Delay	8-MSOP	1049.60/1,000		
LP2988IMM-3.3CT-ND	3.3V, 200mA Micropower Ultra LDO Low Noise Regulator 1% Accuracy	8-MSOP	2.54	1.89	1.40
LP2988IMM-3.3TR-ND	3.3V, 200mA Micropower Ultra LDO Low Noise Regulator 1% Accuracy	8-MSOP	1049.60/1,000		
LP2988IMM-5.0CT-ND	5.0V, 200mA Micropower Ultra LDO Low Noise Regulator 1% Accuracy	8-MSOP	2.54	1.89	1.40
LP2988IMM-5.0TR-ND	5.0V, 200mA Micropower Ultra LDO Low Noise Regulator 1% Accuracy	8-MSOP	276.75/250		
LP2989AILD-2.5CT-ND	2.5V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-LLP	2.50	1.90	1.45
LP2989AILD-2.5TR-ND	2.5V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-LLP	1260.00/1,000		
LP2989AIM-5.0-ND	5V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-SOIC	2.82	2.10	1.55
LP2989AIM-1.8-ND	1.8V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-SOIC	2.82	2.10	1.55
LP2989AIM-2.5-ND	2.5V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-SOIC	2.82	2.10	1.55
LP2989AIM-3.3-ND	3.3V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-SOIC	2.82	2.10	1.55
LP2989IM-1.8-ND	1.8V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-SOIC	2.67	1.98	1.47
LP2989IM-2.5-ND	2.5V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-SOIC	2.67	1.98	1.47
LP2989IM-3.3-ND	3.3V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-SOIC	2.67	1.98	1.47
LP2989IM-5.0-ND	5V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-SOIC	2.67	1.98	1.47
LP2989IMM-1.8CT-ND	1.8V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-MSOP	2.91	2.17	1.60
LP2989IMM-1.8TR-ND	1.8V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-MSOP	1203.20/1,000		
LP2989IMM-3.3CT-ND	3.3V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-MSOP	2.91	2.17	1.60
LP2989IMM-3.3TR-ND	3.3V, Micropower 500mA Low Noise LDO Regulator for Applications with Output Volts	8-MSOP	1203.20/1,000		
LP2992AILD-5.0CT-ND	5V, Micropower 250mA Low Noise Ultra LDO Reg.	6-LLP	1.61	1.19	.86
LP2992AILD-5.0TR-ND	5V, Micropower 250mA Low Noise Ultra LDO Reg.	6-LLP	559.00/1,000		
LP2992AIM5-1.5CT-ND	1.5V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	1.43	1.05	.76
LP2992AIM5-1.5TR-ND	1.5V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	494.00/1,000		
LP2992AIM5-1.8CT-ND	1.8V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	1.43	1.05	.76
LP2992AIM5-1.8TR-ND	1.8V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	494.00/1,000		
LP2992AIM5-3.3CT-ND	3.3V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	1.43	1.05	.76
LP2992AIM5-3.3TR-ND	3.3V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	494.00/1,000		
LP2992AIM5-5.0CT-ND	5V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	1.43	1.05	.76
LP2992AIM5-5.0TR-ND	5V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	494.00/1,000		
LP2992ILD-5.0CT-ND	5V, Micropower 250mA Low Noise Ultra LDO Reg.	6-LLP	1.58	1.16	.84
LP2992ILD-5.0TR-ND	5V, Micropower 250mA Low Noise Ultra LDO Reg.	6-LLP	546.00/1,000		
LP2992IM5-1.8CT-ND	1.8V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	1.39	1.02	.74
LP2992IM5-1.8TR-ND	1.8V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	481.00/1,000		
LP2992IM5-3.3CT-ND	3.3V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	1.39	1.02	.74
LP2992IM5-3.3TR-ND	3.3V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	481.00/1,000		
LP2992IM5-5.0CT-ND	5V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	1.39	1.02	.74
LP2992IM5-5.0TR-ND	5V, Micropower 250mA Low Noise Ultra LDO Reg.	SOT-23-5	481.00/1,000		
LP2995LQCT-ND	DDR Termination Regulator	16-LLP	2.51	1.87	1.38
LP2995LQTR-ND	DDR Termination Regulator	16-LLP	1036.80/1,000		
LP2995M-ND	DDR Termination Regulator	8-SOIC	2.51	1.87	1.38
LP3470IM5-2.63CT-ND	2.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.71	1.27	.94
LP3470IM5-2.63TR-ND	2.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	704.00/1,000		
LP3470IM5-2.93CT-ND	2.93V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.71	1.27	.94
LP3470IM5-2.93TR-ND	2.93V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	704.00/1,000		
LP3470IM5-3.08CT-ND	3.08V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.71	1.27	.94
LP3470IM5-3.08TR-ND	3.08V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	704.00/1,000		
LP3470IM5-4.00CT-ND	4V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	1.71	1.27	.94
LP3470IM5-4.00TR-ND	4V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	704.00/1,000		
LP3470IM5-4.38CT-ND	4.38V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.71	1.27	.94
LP3470IM5-4.38TR-ND	4.38V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	704.00/1,000		
LP3470IM5-4.63CT-ND	4.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.71	1.27	.94
LP3470IM5-4.63TR-ND	4.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	704.00/1,000		
LP3470M5-2.63CT-ND	2.63V, Tiny Power-On Reset Circuit	SOT-23-5	1.55	1.15	.85
LP3470M5-2.63TR-ND	2.63V, Tiny Power-On Reset Circuit	SOT-23-5	640.00/1,000		
LP3470M5-2.93CT-ND	2.93V, Tiny Power-On Reset Circuit	SOT-23-5	1.55	1.15	.85
LP3470M5-2.93TR-ND	2.93V, Tiny Power-On Reset Circuit	SOT-23-5	640.00/1,000		
LP3470M5-3.08CT-ND	3.08V, Tiny Power-On Reset Circuit	SOT-23-5	1.55	1.15	.85
LP3470M5-3.08TR-ND	3.08V, Tiny Power-On Reset Circuit	SOT-23-5	640.00/1,000		
LP3470M5-4.00CT-ND	5V, Voltage Monitor with Reset	SOT-23-5	1.55	1.15	.85
LP3470M5-4.00TR-ND	5V, Voltage Monitor with Reset	SOT-23-5	640.00/1,000		
LP3470M5-4.38CT-ND	4.38V, Tiny Power-On Reset Circuit	SOT-23-5	1.55	1.15	.85
LP3470M5-4.38TR-ND	4.38V, Tiny Power-On Reset Circuit	SOT-23-5	640.00/1,000		
LP3470M5-4.63CT-ND	4.63V, Tiny Power-On Reset Circuit	SOT-23-5	1.55	1.15	.85
LP3470M5-4.63TR-ND	4.63V, Tiny Power-On Reset Circuit	SOT-23-5	640.00/1,000		
LP3961EMP-1.8CT-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3961EMP-1.8TR-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3961EMP-2.5CT-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3961EMP-2.5TR-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3961EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3961EMP-3.3TR-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3961EMP-5.0CT-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3961EMP-5.0TR-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3961ES-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	2.73	2.08	1.59
LP3961ES-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	2.73	2.08	1.59
LP3961ES-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	2.73	2.08	1.59
LP3961ES-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	2.73	2.08	1.59
LP3961ET-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3961ET-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3961ET-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3961ET-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3962EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3962EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3962EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3962EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3962EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3962EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3962EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3962EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3962ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3962ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3962ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3962ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3962ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3962ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3962ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3962ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3963ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3963ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3963ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3963ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3963ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3963ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3963ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3963ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3964EMP-1.8CT-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3964EMP-1.8TR-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3964EMP-2.5CT-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3964EMP-2.5TR-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3964EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3964EMP-3.3TR-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3964EMP-5.0CT-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3964EMP-5.0TR-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3964EMP-ADJCT-ND	Adj., 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3964EMP-ADJTR-ND	Adj., 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3964ES-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3964ES-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3964ES-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3964ES-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3964ES-ADJ-ND	Adj., 800mA Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3964ET-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3964ET-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3964ET-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3964ET-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3964ET-ADJ-ND	Adj., 800mA Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3965EMP-ADJCT-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3965EMP-ADJTR-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3965EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3965EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3965EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3965EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3965EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3965EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3965EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3965EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3965ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3965ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3965ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3965ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3965ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3965ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3965ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3965ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3965ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3965ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3966ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3966ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3966ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3966ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3966ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3966ET-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3966ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3966ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3966ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3966ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3981ILD-3.3CT-ND	3.3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.09	.80	.58
LP3981ILD-3.3TR-ND	3.3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	377.00/1,000		
LP3981IMM-2.83CT-ND	2.83V, Micropower 300mA Ultra LDO CMOS Volt. Reg.	8-MSOP	1.09	.80	.58
LP3981IMM-2.83TR-ND	2.83V, Micropower 300mA Ultra LDO CMOS Volt. Reg.	8-MSOP	377.00/1,000		
LP3981IMM-3.03CT-ND	3.03V, Micropower 300mA Ultra LDO CMOS Volt. Reg.	8-MSOP	1.09	.80	.58
LP3981IMM-3.03TR-ND	3.03V, Micropower 300mA Ultra LDO CMOS Volt. Reg.	8-MSOP	377.00/1,000		
LP3982IMM-1.8CT-ND	1.8V, Micropower Ultra LDO Low Noise 300mA CMOS Regulator	8-MSOP	1.09	.80	.58
LP3982IMM-1.8TR-ND	1.8V, Micropower Ultra LDO Low Noise 300mA CMOS Regulator	8-MSOP	377.00/1,000		
LP3984IBP-1.8CT-ND	1.8V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-Micro SMD	1.08	.78	.57
LP3984IBP-1.8TR-ND	1.8V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-Micro SMD	102.00/250		

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National Semiconductor — LINEAR SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP3984IBP-3.1CT-ND	3.1V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-Micro SMD	1.08	.78	.57
LP3984IBP-3.1TR-ND	3.1V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-Micro SMD		102.00/250	
LP3984IMF-1.5CT-ND	1.5V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3984IMF-1.5TR-ND	1.5V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3984IMF-3.1CT-ND	3.1V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3984IMF-3.1TR-ND	3.1V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IBP-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-Micro SMD	.98	.72	.52
LP3985IBP-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-Micro SMD		97.50/250	
LP3985IM5-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.08	.78	.57
LP3985IM5-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		336.00/1,000	
LP3985IM5-2.6CT-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.08	.78	.57
LP3985IM5-2.6TR-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		336.00/1,000	
LP3985IM5-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.08	.78	.57
LP3985IM5-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		336.00/1,000	
LP3985IM5-285CT-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.08	.78	.57
LP3985IM5-285TR-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		336.00/1,000	
LP3985IM5-3.1CT-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.08	.78	.57
LP3985IM5-3.1TR-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		336.00/1,000	
LP3985IM5-3.2CT-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.08	.78	.57
LP3985IM5-3.2TR-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		336.00/1,000	
LP3985IM5-4.7CT-ND	4.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.08	.78	.57
LP3985IM5-4.7TR-ND	4.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		336.00/1,000	
LP3985IM5-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.08	.78	.57
LP3985IM5-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		336.00/1,000	
LP3986BL-3030CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-Micro SMD	1.80	1.32	.96
LP3986BL-3030TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-Micro SMD		180.00/250	
LP3988IMF-2.85CT-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.98	.72	.52
LP3988IMF-2.85TR-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		338.00/1,000	
LP3988IMF-3.0CT-ND	3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.98	.72	.52
LP3988IMF-3.0TR-ND	3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		338.00/1,000	
LPC660AIM-ND	Low Power Quad CMOS Op Amp, A Grade	14-SOIC	3.43	2.61	1.99
LPC660IM-ND	Low Power Quad CMOS Op Amp	14-SOIC	2.73	2.08	1.59
LPC661IM-ND	Low Power CMOS Op Amp	8-SOIC	1.75	1.30	.96
LPC662AIM-ND	Low Power Dual CMOS Op Amp, A Grade	8-SOIC	2.83	2.15	1.64
LPC662IM-ND	Low Power Quad CMOS Op Amp	8-SOIC	2.28	1.70	1.26
LPV321M5CT-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SOT-23-5	1.13	.83	.60
LPV321M5TR-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SOT-23-5		390.00/1,000	
LPV321M7CT-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SC-70-5	1.13	.83	.60
LPV321M7TR-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SC-70-5		390.00/1,000	
LPV324M-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp	14-SOIC	1.28	.94	.68
LPV324MT-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp	14-TSSOP	1.28	.94	.68
LPV358M-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-SOIC	1.16	.86	.62
LPV358MMCT-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP	1.16	.86	.62
LPV358MMTR-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP		403.00/1,000	
MAX660M-ND	Switch Capacitor Volt Converter	8-SOIC	1.46	1.08	.78
MCP809M3-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-3	.95	.69	.50
MCP809M3-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-3		294.00/1,000	
MF10ACN-ND	General Purpose Dual Active Filter, A Grade	20-Dip	4.00	3.04	2.32
MF10CCN-ND	General Purpose Dual Active Filter	20-Dip	3.40	2.59	1.98
MF10CCWM-ND	Universal Monolithic Dual Switched Capacitor Filter	20-SOIC	3.40	2.59	1.98
MM5452V-ND	Liquid Crystal Display Driver, 32 Segments	44-PLCC	5.10	3.88	2.96
MM5453V-ND	Liquid Crystal Display Driver, 32 Segments	44-PLCC	4.13	3.14	2.40
MM5483N-ND	Liquid Crystal Display Driver, 31 Segments	40-Dip	4.88	3.71	2.83
MM145453V-ND	Liquid Crystal Display Driver, 33 Segments	44-PLCC	4.75	3.61	2.76
PC97338VLJ-ND	ACPI 1.0 and PC98/99 Super I/O	100-PQFP	7.18	5.68	4.55
TL082CM-ND	Wide Bandwidth Dual JFET Input Op Amp	8-SOIC	.54	.39	.29
TL082CMXTR-ND	Wide Bandwidth Dual JFET Input Op Amp	8-SOIC		399.00/2,500	
TL082CPNS-ND	Bi-FET Dual Op Amp	8-Dip	.77	.56	.40
USBN9603-28M-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-SOIC	6.05	4.60	3.51
9242B-ND	1995 Data Acquisition Data Book Contains data on: D/A and A/D Converters • Active Filters • Voltage References • Temperature Sensors • Sample and Hold • Analog Switches-Multiplexers		18.00	—	—
9243B-ND	1995 Operational Amplifiers Data Book Contains data on: • Buffers • Voltage Comparators • Instrumentation Amps • Op Amps • Surface Mount • Appendixes/Physical Dimensions		17.00	—	—
9244B-ND	1995 Power ICs Data Book Contains data on: • Linear • Motion Control • Low Dropout and Switching Voltage Regulators • Peripheral Drivers • High Current Switches • Surface Mount • Appendixes/Physical Dimensions		12.00	—	—

Microsemi — VOLTAGE REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM78L18ACZMS-ND	Positive 18 Volt Regulator 100mA	TO-92	.36	.27	.15
LM79L24ACZMS-ND	Negative 24 Volt Regulator 100mA	TO-92	.36	.27	.15

National Semiconductor — TELECOMMUNICATIONS ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TP3054N-ND	Enhanced Serial Interface CODEC Filter	16-Dip	2.70	2.06	1.57
TP3054WM-ND	Enhanced Serial Interface CODEC Filter	16-SOIC	2.70	2.06	1.57
TP3410J304-ND	ISDN Basic Access Echo-Cancelling 2B1Q U Transceiver	28-Dip	16.65	15.54	14.43
TP3420AV308-ND	ISDN S/T Interface Device	20-PLCC	10.40	8.91	7.91

Microchip — A/D CONVERTERS

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MCP3201-CI/P	MCP3201-CI/P-ND	2.7V Single 12-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	8-Dip	2.85	2.16	1.73
MCP3201-CI/SN	MCP3201-CI/SN-ND	2.7V Single 12-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	8-SOIC	2.85	2.16	1.73
MCP3202-CI/P	MCP3202-CI/P-ND	2.7V 2-Ch., 12-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	8-Dip	3.15	2.39	1.91
MCP3202-CI/SN	MCP3202-CI/SN-ND	2.7V 2-Ch., 12-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	8-SOIC	3.15	2.39	1.91
MCP3204-CI/P	MCP3204-CI/P-ND	2.7V 4-Ch., 12-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	14-Dip	3.95	2.99	2.39
MCP3204-CI/SL	MCP3204-CI/SL-ND	2.7V 4-Ch., 12-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	14-SOIC	3.95	2.99	2.39
MCP3208-CI/P	MCP3208-CI/P-ND	2.7V 8-Ch., 12-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	16-Dip	4.35	3.29	2.63
MCP3208-CI/SL	MCP3208-CI/SL-ND	2.7V 8-Ch., 12-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	16-SOIC	4.35	3.29	2.63
MCP3301-CI/MS	MCP3301-CI/MS-ND	2.7V Single 13-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	8-MSOP	3.05	2.32	1.86
MCP3301-CI/P	MCP3301-CI/P-ND	2.7V Single 13-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	8-Dip	2.85	2.16	1.73
MCP3302-CI/P	MCP3302-CI/P-ND	2.7V 4-Ch., 13-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	14-Dip	3.93	2.98	2.38
MCP3302-CI/SL	MCP3302-CI/SL-ND	2.7V 4-Ch., 13-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	14-SOIC	3.93	2.98	2.38
MCP3302-CI/ST	MCP3302-CI/ST-ND	2.7V 4-Ch., 13-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	14-TSSOP	4.20	3.19	2.55
MCP3304-CI/P	MCP3304-CI/P-ND	2.7V 8-Ch., 13-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	16-Dip	4.35	3.30	2.64
MCP3304-CI/SL	MCP3304-CI/SL-ND	2.7V 8-Ch., 13-Bit A/D Conv. w/SPI Serial Interface, ±2 LSB	16-SOIC	4.35	3.30	2.64

Microchip — INFRARED ENCODERS AND DECODERS

In focusing on connectivity solutions for customers, Microchip now offers products to support infrared wireless communication. With the explosive growth of mobile phones, Personal Digital Assistants (PDAs) and other handheld electronic devices, the need for a simple, low-cost wireless communication method has grown as well. The MCP2120 Infrared Encoder/Decoder is low-cost, easy-to-use infrared peripheral. Utilizing this device and an off-the-shelf infrared transceiver, customers will now be able to add wireless communication capability to their designs. Supports IrDA Physical Layer Specification (baud rates up to 115.2k). Can support higher speeds than 115.2k bps with higher frequency crystal oscillator. If interoperability with other infrared enabled devices is required in your design, the revolutionary MCP2150 Infrared Communications Controller supporting the IrDA Standard is simply the smallest, simplest, most economical way of adding IrDA cordless connectivity to embedded applications. Includes: Support for Ir Link Access Protocol (IrLAP), Ir Link Management Protocol (IrLAP), Tiny Transport Protocol (Tiny TP) and IrComm portions of the IrDA Standard protocol stack connects to standard microcontroller UART peripherals and optical transceivers

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MCP2120-I/P	MCP2120-I/P-ND	Infrared Encoder/Decoder	14-Dip	2.48	1.53	1.49
MCP2120-I/SL	MCP2120-I/SL-ND	Infrared Encoder/Decoder	14-SOIC	2.48	1.53	1.49
MCP2140-I/P	MCP2140-I/P-ND	IrDA Stack Controller with 9600 Baud *NEW!*	18-Dip	2.50	1.67	1.56
MCP2140-I/SO	MCP2140-I/SO-ND	IrDA Stack Controller with 9600 Baud *NEW!*	18-SOIC	2.50	1.67	1.56
MCP2140-I/SS	MCP2140-I/SS-ND	IrDA Stack Controller with 9600 Baud *NEW!*	20-SSOP	2.63	1.76	1.64
MCP2150-I/P	MCP2150-I/P-ND	Infrared Controller IrDA Standard	18-Dip	7.63	5.09	4.85
MCP2150-I/SO	MCP2150-I/SO-ND	Infrared Controller IrDA Standard	18-SOIC	7.63	5.09	4.85

Infrared Developer's Kit This kit includes everything needed to create a system that communicates using infrared. The kit contains two MCP2120 developer's boards enabling a complete system (transmitter and receiver) to be implemented. Also included is a MCP2150 developer's board that can be used to set up a system to communicate with other IrDA enabled devices. On these developer's boards, customers can configure input and output options. All of this functionality is designed to get the user communicating via infrared in the shortest amount of time.

Microchip Part No.	Digi-Key Part No.	Description	Price Each
DM163008	DM163008-ND	IrDA Communications Development Kit for MCP2120/2150 ICs	279.00

Microchip — *NEW!* LIN TRANSCEIVERS *NEW!*

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MCP201-I/P	MCP201-I/P-ND	LIN Transceiver with Volt. Reg.	8-Dip	2.28	1.51	1.44
MCP201-I/SN	MCP201-I/SN-ND	LIN Transceiver with Volt. Reg.	8-SOIC	2.28	1.52	1.44

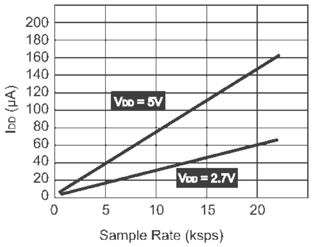
MICROCHIP

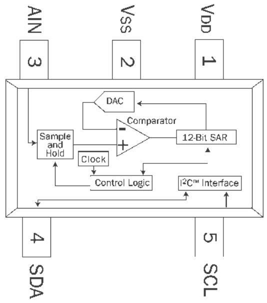
Tiny, Low Power A/D Converter

The MCP3221 is a 12-bit analog-to-digital (A/D) converter. The device has a very low power consumption rating of 250µA max conversion and 1µA standby. The MCP3221 is available in a SOT-23 package and has an I^2C™ compatible interface. Low current consumption combined with small packaging make this A/D converter ideal for battery powered and remote applications, where small space and low power are needed.

Features:
• 12-bit Resolution • Low Current Operation: 250µA Conversion Current Max., 175µA Typ.; 1µA Standby Current Max., 5nA Typ. • I^2C™ Compatible Interface • 22ksps Max. Sampling Rate • ±1LSB DNL, ±2LSB INL Max. • Single Supply Voltage, 2.7V to 5.5V

Applications:
• Battery Powered Equipment • Remote or Isolated Data Acquisition • Hand-Held Portable Applications • Data Logging





Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Microchip Part No.
SOT-23-5	MCP3221A5T-I/OTCT-ND	2.25	1.80	1.58	MCP3221A5T-I/OTTR-ND	1180.00/M	MCP3221A5T-I/OT

Ultra Low Current Op Amps

The MCP6041 (single), MCP6042 (dual), MCP6043 (single with chip select) and MCP6044 (quad) are 1.4V to 5.5V supply, 600nA quiescent current op amps. These amplifiers offer Rail-to-Rail Input/Output and are highly stable into capacitive loads. These amplifiers are available in PDIP, SOIC and the tiny MSOP and the single in SOT-23 package.

Features and Benefits:
• 1.4V to 5.5V Supply Voltage Range • 600nA Typical, 1µA Maximum Quiescent Current • 14kHz GBWP • A_{VOL} > 95dB • Phase Margin 65° C_L= 60pF • Wide Operating Range: -40°C to +85°C • CMRR > 60dB • PSRR > 70dB

Applications:
• Wireless Handsets • Wearable Products • Hand-Held Devices • Communication Loop Powered Devices • Battery Powered Devices • Temperature Measurement

Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Microchip Part No.
SOT-23-5	MCP6041T-I/OTCT-ND	.78	.62	.55	MCP6041T-I/OTTR-ND	3,000	400.00/M	MCP6041T-I/OT
MSOP-8	MCP6041T-I/MSCT-ND	.93	.74	.65	MCP6041T-I/MSTR-ND	2,500	490.00/M	MCP6041T-I/MS
SOIC-8	MCP6041T-I/SNCT-ND	.83	.66	.58	MCP6041T-I/SNTR-ND	3,300	440.00/M	MCP6041T-I/SN
PDIP-8	MCP6041-I/P-ND*	.83	.53	.48	—	—	—	MCP6041-I/P
MSOP-8	MCP6042T-I/MSCT-ND	1.18	.94	.83	MCP6042T-I/MSTR-ND	2,500	610.00/M	MCP6042T-I/MS
SOIC-8	MCP6042T-I/SNCT-ND	1.10	.88	.77	MCP6042T-I/SNTR-ND	3,300	580.00/M	MCP6042T-I/SN
PDIP-8	MCP6042-I/P-ND*	1.10	.69	.63	—	—	—	MCP6042-I/P
MSOP-8	MCP6043T-I/MSCT-ND	.98	.78	.69	MCP6043T-I/MSTR-ND	2,500	510.00/M	MCP6043T-I/MS
SOIC-8	MCP6043T-I/SNCT-ND	.88	.70	.62	MCP6043T-I/SNTR-ND	3,300	460.00/M	MCP6043T-I/SN
PDIP-8	MCP6043-I/P-ND*	.88	.55	.49	—	—	—	MCP6043-I/P
TSSOP-14	MCP6044T-I/STCT-ND	2.00	1.60	1.40	MCP6044T-I/STTR-ND	2,500	1050.00/M	MCP6044T-I/ST
SOIC-14	MCP6044T-I/SLCT-ND	1.93	1.54	1.35	MCP6044T-I/SLTR-ND	2,600	1020.01/M	MCP6044T-I/SL
PDIP-14	MCP6044-I/P-ND*	1.93	1.22	1.10	—	—	—	MCP6044-I/P

* Tube

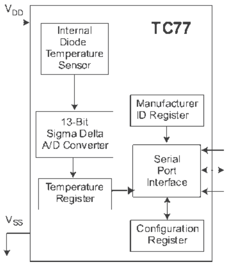
For more information visit: www.microchip.com/opamps

Tiny Digital Temperature Sensors

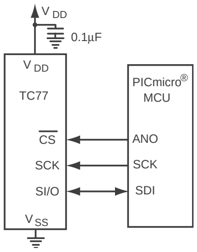
The TC77 is a 1°C accurate, high resolution, digital temperature sensor. The device is capable of measuring temperature without the need for any external components and communicating thermal data via an industry-standard SPI™ compatible interface. The TC77 offers an operating voltage range of 2.7V to 5.5V and extremely low operating and shutdown current for power savings. Furthermore, it is available in a small 5-pin SOT-23 package, making it ideal for space-saving applications.

Features and Benefits:
• 2.7V to 5.5V Supply Voltage Range • 13-bit Temperature Resolution • High Accuracy: ±1°C Max. from +25°C to +65°C, ±2°C Max. from -40°C to +85°C • Very Low Power Consumption: 250mA Typ. • Shutdown Mode: 1µA Max. • SPI™ and MICROWIRE™ Compatible Interface • Wide Operating Range: -55°C to +125°C • Requires No External Components

Applications:
• Wireless Handsets • Office Equipment • Industrial Control • Base Stations • Game Consoles • Set-top Boxes • Hard Drives • General Thermal Protection • Temperature Measurement



Typical Application



Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Microchip Part No.
SOT-23-5	TC77-3.3MCTTRCT-ND	1.60	1.28	1.12	TC77-3.3MCTTRTR-ND	860.00/M	TC77-3.3MCTTR
SOT-23-5	TC77-5.0MCTTRCT-ND	1.60	1.28	1.12	TC77-5.0MCTTRTR-ND	860.00/M	TC77-5.0MCTTR
SOIC-8	TC77-3.3MOA-ND*	1.48	.87	.83	—	—	TC77-3.3MOA
SOIC-8	TC77-5.0MOA-ND*	1.48	.87	.83	—	—	TC77-5.0MOA

* Tube

For more information visit: www.microchip.com/thermal

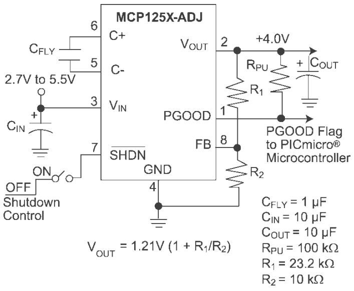
Inductorless, Positive-Regulated Charge Pump DC/DC Converters

The MCP1252 and MCP1253 devices generate a regulated fixed (3.3V or 5.0V) or adjustable output voltage, deliver up to 120mA output current and allow the input voltage to be lower or higher than the output voltage, by automatically switching between buck/boost operation.

Features:
• Inductorless, Buck/Boost, DC/DC Converter • High Output Voltage Accuracy: ±2.5% (VOUT Fixed) • 120mA Output Current • Wide Operating Temperature Range: -40°C to +85°C • Thermal Shutdown and Short-Circuit Protection • Switching Frequency: MCP1252: 650kHz, MCP1253: 1MHz • VIN Range: 2.0V to 5.5V • Selectable Output Voltage (3.3V or 5.0V) or Adjustable Output Voltage

Applications:
• White LED Backlighting • Color Display Bias • Local 3V to 5V Conversions • Flash Memory Supply Voltage • SIM Interface Supply for GSM Phones • Smart Card Readers • PCMCIA Local 5V Supplies

Typical circuit configuration for the Adjustable Output:



Package	Digi-Key Part No.	Price Each 1	25	100	Microchip Part No.
MSOP-8	MCP1252-33X50I/MS-ND	2.40	1.73	1.58	MCP1252-33X50I/MS
MSOP-8	MCP1252-ADJI/MS-ND	2.40	1.73	1.58	MCP1252-ADJI/MS
MSOP-8	MCP1253-33X50I/MS-ND	2.40	1.73	1.58	MCP1253-33X50I/MS
MSOP-8	MCP1253-ADJI/MS-ND	2.40	1.73	1.58	MCP1253-ADJI/MS

For more information visit: www.microchip.com/power

DIGITAL POTENTIOMETERS

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MCP41010-I/P	MCP41010-I/P-ND	10kΩ Single Channel Digital Pot.	8-Dip	1.68	1.27	1.01
MCP41010-I/SN	MCP41010-I/SN-ND	10kΩ Single Channel Digital Pot.	8-SOIC	1.68	1.27	1.01
MCP41050-I/P	MCP41050-I/P-ND	50kΩ Single Channel Digital Pot.	8-Dip	1.68	1.27	1.01
MCP41050-I/SN	MCP41050-I/SN-ND	50kΩ Single Channel Digital Pot.	8-SOIC	1.68	1.27	1.01
MCP41100-I/P	MCP41100-I/P-ND	100kΩ Single Channel Digital Pot.	8-Dip	1.68	1.27	1.01
MCP41100-I/SN	MCP41100-I/SN-ND	100kΩ Single Channel Digital Pot.	8-SOIC	1.68	1.27	1.01
MCP42010-I/P	MCP42010-I/P-ND	10kΩ Dual Channel Digital Pot.	14-Dip	2.53	1.91	1.52
MCP42010-I/SL	MCP42010-I/SL-ND	10kΩ Dual Channel Digital Pot.	14-SOIC	2.53	1.91	1.52
MCP42010-I/ST	MCP42010-I/ST-ND	10kΩ Dual Channel Digital Pot.	14-TSSOP	2.53	1.91	1.52
MCP42050-I/P	MCP42050-I/P-ND	50kΩ Dual Channel Digital Pot.	14-Dip	2.53	1.91	1.52
MCP42050-I/SL	MCP42050-I/SL-ND	50kΩ Dual Channel Digital Pot.	14-SOIC	2.53	1.91	1.52
MCP42050-I/ST	MCP42050-I/ST-ND	50kΩ Dual Channel Digital Pot.	14-TSSOP	2.53	1.91	1.52
MCP42100-I/P	MCP42100-I/P-ND	100kΩ Dual Channel Digital Pot.	14-Dip	2.53	1.91	1.52
MCP42100-I/SL	MCP42100-I/SL-ND	100kΩ Dual Channel Digital Pot.	14-SOIC	2.53	1.91	1.52
MCP42100-I/ST	MCP42100-I/ST-ND	100kΩ Dual Channel Digital Pot.	14-TSSOP	2.53	1.91	1.52

MIXED SIGNAL

System A/D Converters

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC500ACOE	TC500ACOE-ND	Precision Analog Front End, 17-Bit Resolution	16-SOIC	5.65	3.57	3.23
TC500ACOE713	TC500ACOE713CT-ND	Precision Analog Front End, 17-Bit Resolution	16-SOIC	5.09	4.41	3.96
TC500ACOE713	TC500ACOE713TR-ND	Precision Analog Front End, 17-Bit Resolution	16-SOIC	2979.99/1,000		
TC500ACPE	TC500ACPE-ND	Precision Analog Front End, 17-Bit Resolution	16-Dip	5.00	3.15	2.85
TC500COE	TC500COE-ND	Precision Analog Front End, 16-Bit Resolution	16-SOIC	4.50	3.15	2.85
TC500CPE	TC500CPE-ND	Precision Analog Front End, 16-Bit Resolution	16-Dip	3.65	2.31	2.09
TC520ACPD	TC520ACPD-ND	Serial Interface Adapter	14-Dip	5.40	3.79	3.43
TC7109ACPL	TC7109ACPL-ND	12-Bit, µP-Compatible A/D Conv.	40-Dip	8.13	5.13	4.64
TC7109ACKW	TC7109ACKW-ND	12-Bit, µP-Compatible A/D Conv.	44-PQFP	10.35	7.26	6.57
TC7109CPL	TC7109CPL-ND	12-Bit, µP-Compatible A/D Conv.	40-Dip	6.88	4.34	3.93

Display A/D Converters

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC820CPL	TC820CPL-ND	3-3/4 Digit A/D Converter for LCDs	40-Dip	10.53	6.65	6.01
TC835CKW	TC835CKW-ND	4-1/2 Digit A/D Converter	44-PQFP	11.48	8.05	7.29
TC7106ACPL	TC7106ACPL-ND	3-1/2 Digit A/D Converter for LCDs	40-Dip	4.90	3.09	2.79
TC7106CPL	TC7106CPL-ND	3-1/2 Digit A/D Converter for LCDs	40-Dip	4.90	3.09	2.79
TC7107ACPL	TC7107ACPL-ND	3-1/2 Digit A/D Converter for LEDs, Electronically Improved	40-Dip	4.63	2.92	2.64
TC7107CKW	TC7107CKW-ND	3-1/2 Digit A/D Converter for LEDs	44-PQFP	5.83	4.09	3.70
TC7107CPL	TC7107CPL-ND	3-1/2 Digit A/D Converter for LEDs.	40-Dip	4.45	2.81	2.54
TC7116ACPL	TC7116ACPL-ND	3-1/2 Digit A/D Conv. w/Hold (LCD)	40-Dip	6.23	3.93	3.56
TC7116CPL	TC7116CPL-ND	3-1/2 Digit A/D Converter with Hold (LCD)	40-Dip	5.60	3.93	3.56
TC7117ACPL	TC7117ACPL-ND	3-1/2 Digit A/D Conv. w/Hold (LED)	40-Dip	6.50	4.11	3.71
TC7117CKW	TC7117CKW-ND	3-1/2 Digit A/D Conv. w/Hold (LED)	44-PQFP	6.53	4.58	4.14
TC7117CPL	TC7117CPL-ND	3-1/2 Digit LED A/D Conv. with Hold	40-Dip	5.48	3.47	3.14
TC7126CPL	TC7126CPL-ND	3-1/2 Digit A/D Converter	40-Dip	7.27	5.10	4.62
TC7129CPL	TC7129CPL-ND	4-1/2 Digit A/D Converter with On-Chip LCD Driver	40-Dip	11.97	8.40	7.60
TC7135CPI	TC7135CPI-ND	4-1/2 Digit A/D Converter	28-Dip	7.28	4.59	4.16
TC14433AEPG	TC14433AEPG-ND	3-1/2 Digit A/D Converter CMOS	24-Dip	5.63	3.95	3.57
TC14433EPG	TC14433EPG-ND	3-1/2 Digit A/D Converter CMOS	24-Dip	5.63	3.95	3.57

Chopper-Stabilized Operational Amplifiers

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC7650CPA	TC7650CPA-ND	Chopper-Stabilized Op Amp	8-Dip	3.23	2.04	1.84
TC7650CPD	TC7650CPD-ND	Chopper-Stabilized Operational Amplifier CMOS.	14-Dip	3.17	2.23	2.01
TC7652CPA	TC7652CPA-ND	Low Noise, Chopper-Stabilized Op Amp.	8-Dip	4.38	2.76	2.50
TC9421CPD	TC9421CPD-ND	High V. Auto Zero Chopper-Stabilized Op Amp.	14-Dip	6.64	5.76	5.17
TC913BCPA	TC913BCPA-ND	Dual Auto-Zeroed Op Amp.	8-Dip	4.65	2.94	2.66

Voltage to Frequency & Frequency to Voltage Converters

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC9400COD	TC9400COD-ND	Volt. to Frequency/Frequency to Volt. Converter, .05% Lin.	14-SOIC	6.98	4.89	4.43
TC9400CPD	TC9400CPD-ND	Voltage to Frequency/Frequency to Voltage Converter, .05% Lin.	14-Dip	6.88	4.34	3.93
TC9400EJD	TC9400EJD-ND	Volt. to Frequency/Frequency to Volt. Converter, .05% Lin.	14-CDIP	12.49	8.76	7.93
TC9402CPD	TC9402CPD-ND	Voltage to Frequency/Frequency to Voltage Converter, .25% Lin.	14-Dip	3.25	2.05	1.86

OP AMPS

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MCP601-I/P-ND	MCP601-I/P-ND	Single Op Amp CMOS, 2.7V-5.5V Single Supply	8-Dip	.68	.42	.38
MCP601-I/SN-ND	MCP601-I/SN-ND	Single Op Amp CMOS, 2.7V-5.5V Single Supply	8-SOIC	.68	.42	.38
MCP601T-I/OT	MCP601T-I/OTCT-ND	Single Op Amp CMOS, 2.7V-5.5V, Single Supply	SOT-23-5	.54	.47	.42
MCP601T-I/OT	MCP601T-I/OTTR-ND	Single Op Amp CMOS, 2.7V-5.5V, Single Supply	SOT-23-5	960.00/3,000		
MCP602-I/P-ND	MCP602-I/P-ND	Dual Op Amp CMOS, 2.7V-5.5V Single Supply	8-Dip	.88	.55	.49
MCP602-I/SN-ND	MCP602-I/SN-ND	Dual Op Amp CMOS, 2.7V-5.5V Single Supply	8-SOIC	.88	.55	.49
MCP603-I/P-ND	MCP603-I/P-ND	Single Op Amp CMOS, 2.7V-5.5V Single Supply with CS	8-Dip	.70	.44	.40
MCP603-I/SN-ND	MCP603-I/SN-ND	Single Op Amp CMOS, 2.7V-5.5V Single Supply with CS.	8-SOIC	.70	.44	.40
MCP604-I/P-ND	MCP604-I/P-ND	Quad Op Amp CMOS, 2.7V-5.5V Single Supply	14-Dip	1.60	1.01	.91
MCP604-I/SL-ND	MCP604-I/SL-ND	Quad Op Amp CMOS, 2.7V-5.5V Single Supply	14-SOIC	1.60	1.01	.91
MCP606-I/P-ND	MCP606-I/P-ND	Single Op Amp CMOS, 2.5V-5.5V Single Supply	8-Dip	1.00	.63	.57
MCP606-I/SN-ND	MCP606-I/SN-ND	Single Op Amp CMOS, 2.5V-5.5V Single Supply	8-SOIC	1.00	.63	.57
MCP607-I/P-ND	MCP607-I/P-ND	Dual Op Amp CMOS, 2.5V-5.5V Single Supply	8-Dip	1.33	.84	.76
MCP607-I/SN-ND	MCP607-I/SN-ND	Dual Op Amp CMOS, 2.5V-5.5V Single Supply	8-SOIC	1.33	.84	.76
MCP608-I/P-ND	MCP608-I/P-ND	Single Op Amp CMOS, 2.5V-5.5V Single Supply with CS	8-Dip	1.08	.67	.61
MCP608-I/SN-ND	MCP608-I/SN-ND	Single Op Amp CMOS, 2.5V-5.5V Single Supply with CS.	8-SOIC	1.08	.67	.61
MCP609-I/P-ND	MCP609-I/P-ND	Quad Op Amp CMOS, 2.5V-5.5V Single Supply	14-Dip	2.00	1.26	1.14
MCP609-I/SL-ND	MCP609-I/SL-ND	Quad Op Amp CMOS, 2.5V-5.5V Single Supply	14-SOIC	2.00	1.26	1.14
MCP6021-I/P-ND	MCP6021-I/P-ND	Single Op Amp, Rail-to-Rail, 2.5V-5.5V	8-Dip	1.40	.88	.80
MCP6021-I/SN-ND	MCP6021-I/SN-ND	Single Op Amp, Rail-to-Rail, 2.5V-5.5V	8-SOIC	1.40	.88	.80
MCP6021-I/ST-ND	MCP6021-I/ST-ND	Single Op Amp, Rail-to-Rail, 2.5V-5.5V	8-TSSOP	1.50	.95	.86
MCP6022-I/P-ND	MCP6022-I/P-ND	Dual Op Amp, Rail-to-Rail, 2.5V-5.5V	8-Dip	1.80	1.13	1.03
MCP6022-I/SN-ND	MCP6022-I/SN-ND	Dual Op Amp, Rail-to-Rail, 2.5V-5.5V	8-SOIC	1.80	1.13	1.03
MCP6022-I/ST-ND	MCP6022-I/ST-ND	Dual Op Amp, Rail-to-Rail, 2.5V-5.5V	8-TSSOP	1.93	1.22	1.10
MCP6023-I/P-ND	MCP6023-I/P-ND	Single Op Amp, Rail-to-Rail, 2.5V-5.5V with CS	8-Dip	1.48	.92	.84
MCP6023-I/SN-ND	MCP6023-I/SN-ND	Single Op Amp, Rail-to-Rail, 2.5V-5.5V with CS.	8-SOIC	1.48	.92	.84
MCP6023-I/ST-ND	MCP6023-I/ST-ND	Single Op Amp, Rail-to-Rail, 2.5V-5.5V with CS.	8-TSSOP	1.60	1.01	.91
MCP6024-I/P-ND	MCP6024-I/P-ND	Quad Op Amp, Rail-to-Rail, 2.5V-5.5V	14-Dip	2.63	1.66	1.50
MCP6024-I/SL-ND	MCP6024-I/SL-ND	Quad Op Amp, Rail-to-Rail, 2.5V-5.5V	14-SOIC	2.63	1.66	1.50
MCP6024-I/ST-ND	MCP6024-I/ST-ND	Quad Op Amp, Rail-to-Rail, 2.5V-5.5V	14-TSSOP	2.80	1.76	1.60
MCP6041-I/MS-ND	MCP6041-I/MS-ND	Single Op Amp, 1.4V, Ind. Temp.	8-MSOP	.93	.59	.53
MCP6041-I/SN-ND	MCP6041-I/SN-ND	Single Op Amp, 1.4V, Ind. Temp.	8-SOIC	.83	.53	.48
MCP6042-I/MS-ND	MCP6042-I/MS-ND	Dual Op Amp, 1.4V, Ind. Temp.	8-MSOP	1.18	.74	.67
MCP6042-I/SN-ND	MCP6042-I/SN-ND	Dual Op Amp, 1.4V, Ind. Temp.	8-SOIC	1.10	.69	.63
MCP6043-I/MS-ND	MCP6043-I/MS-ND	Single Op Amp, with CS 1.4V, Ind. Temp.	8-MSOP	.98	.61	.55
MCP6043-I/SN-ND	MCP6043-I/SN-ND	Single Op Amp, with CS 1.4V, Ind. Temp.	8-SOIC	.88	.55	.49
MCP6044-I/SL-ND	MCP6044-I/SL-ND	Quad Op Amp, 1.4V, Ind. Temp.	14-SOIC	1.93	1.22	1.10
MCP6044-I/ST-ND	MCP6044-I/ST-ND	Quad Op Amp, 1.4V, Ind. Temp.	14-TSSOP	2.00	1.26	1.14
TC1034ECTTR	TC1034ECTTRCT-ND	Single Op Amp CMOS, 1.8V-5.5V, Single Supply	SOT-23A-5	.88	.77	.69
TC1034ECTTR	TC1034ECTTRTR-ND	Single Op Amp CMOS, 1.8V-5.5V, Single Supply	SOT-23A-5	1530.00/3,000		
TC901COA	TC901COA-ND	Dual Auto-Zeroed Op Amp CMOS, 5V-32V Single Supply with On-Chip Capacitors	8-SOIC	11.25	9.75	8.75
TC911BCOA	TC911BCOA-ND	Single Auto-Zeroed Op Amp CMOS, 4.5V-16V Single Supply with On-Chip Capacitors	8-SOIC	6.75	5.85	5.25

POWER MANAGEMENT

Charge Pump DC-to-DC Converters

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC151B3027EOA713	TC151B3027EOA71CT-ND	3V, Step Up/Down DC/DC PWM Converter	8-SOIC	4.57	3.96	3.56
TC151B3329EOA713	TC151B3329EOA71CT-ND	3.3V, Step Up/Down DC/DC PWM Converter	8-SOIC	4.57	3.96	3.56
TC151B5045EOA713	TC151B5045EOA71CT-ND	5V, Step Up/Down DC/DC PWM Converter	8-SOIC	4.57	3.96	3.56
TC161B3027EOA713	TC161B3027EOA71CT-ND	3V, Step Up/Down DC/DC Converter	8-SOIC	4.57	3.96	3.56
TC161B3329EOA713	TC161B3329EOA71CT-ND	3.3V, Step Up/Down DC/DC Conv.	8-SOIC	4.57	3.96	3.56
TC173B3000EMT713	TC173B3000EMT71CT-ND	3V, PWM Step Up Switching Reg.	SOT-89-5	3.29	2.85	2.56
TC173B5000EMT713	TC173B5000EMT71CT-ND	5V, PWM Step Up Switching Reg.	SOT-89-5	3.29	2.85	2.56
TC183B3000EMT	TC183B3000EMTCT-ND	3V, PFM Step Up Switch. Reg.	SOT-89-5	3.29	2.85	2.56
TC962CPA	TC962CPA-ND	High Current DC/DC Converter, 80mA	8-Dip	4.50	2.84	2.57
TC1121COA	TC1121COA-ND	2.4V-5.5V, 100mA, DC/DC Converter with Shutdown	8-SOIC	1.98	1.25	1.13
TC1121CPA	TC1121CPA-ND	2.4V-5.5V, 100mA, DC/DC Converter with Shutdown	8-Dip	2.03	1.28	1.16
TC7660COA	TC7660COA-ND	1.5V-10V, DC/DC Voltage Converter	8-SOIC	1.70	1.07	.97
TC7660CPA	TC7660CPA-ND	1.5V-10V, DC/DC Voltage Converter	8-Dip	1.75	1.11	1.00
TC7660EOA	TC7660EOA-ND	1.5V-10V, DC/DC Voltage Converter	8-SOIC	1.67	1.18	1.06
TC7660HCPA	TC7660HCPA-ND	1.5V-10V, High Frequency DC/DC Voltage Converter	8-Dip	2.18	1.53	1.39
TC7660SCOA	TC7660SCOA-ND	1.5V-12V, Super DC/DC Volt. Conv.	8-SOIC	1.80	1.13	1.03
TC7660SCPA	TC7660SCPA-ND	1.5V-12V, Super DC/DC Volt. Conv.	8-Dip	1.80	1.26	1.14
TC7660SEOA713	TC7660SEOA713CT-ND	1.5V-12V, Super DC/DC Volt. Conv.	8-SOIC	1.69	1.47	1.32
TC7660SEOA713	TC7660SEOA713TR-ND	1.5V-12V, Super DC/DC Volt. Conv.	8-SOIC	3267.00/3,300		
TC7660SEPA	TC7660SEPA-ND	1.5V-12V, Super DC/DC Volt. Conv.	8-Dip	2.93	2.05	1.86
TC7662ACPA	TC7662ACPA-ND	3V-18V, DC/DC Converter	8-Dip	2.50	1.58	1.43
TC7662AEPA	TC7662AEPA-ND	3V-18V, DC/DC Voltage Converter	8-Dip	3.38	2.37	2.14
TC7662AIJA	TC7662AIJA-ND	3V-18V, DC/DC Voltage Converter	8-CDip	4.50	3.16	2.86
TC7662BCOA	TC7662BCOA-ND	1.5V-15V, DC/DC Voltage Converter	8-SOIC	1.80	1.13	1.03
TC7662BCPA	TC7662BCPA-ND	1.5V-15V, DC/DC Voltage Converter	8-Dip	1.62	1.13	1.03
TC7662BEOA	TC7662BEOA-ND	1.5V-15V, DC/DC Voltage Converter	8-SOIC	2.10	1.33	1.20
TC7662BEOA713	TC7662BEOA713CT-ND	1.5V-15V, DC/DC Voltage Converter	8-SOIC	1.89	1.64	1.47
TC7662BEOA713	TC7662BEOA713TR-ND	1.5V-15V, DC/DC Voltage Converter	8-SOIC	3662.98/3,300		
TC7662BEPA	TC7662BEPA-ND	1.5V-15V, DC/DC Voltage Converter	8-Dip	1.89	1.33	1.20
TC962COE	TC962COE-ND	3V-18V, High Current DC/DC Voltage Converter	(wide)16-SOIC	5.06	3.55	3.21

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Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TCM829ECT713	TCM829ECT713CT-ND	1.5V-5.5V, Switched Cap Volt Converter	SOT-23A-5	.97	.84	.76
TCM829ECT713	TCM829ECT713TR-ND	1.5V-5.5V, Switched Cap Volt Converter	SOT-23A-5	1680.01/3,000		

Voltage Regulators

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC1265-1.8VAT	TC1265-1.8VAT-ND	1.8V, 800mA Max., LDO Volt. Reg. with Shutdown	TO-220-5	2.48	1.74	1.58
TC1265-1.8VOA	TC1265-1.8VOA-ND	1.8V, 800mA Max., LDO Volt. Reg. with Shutdown	8-SOIC	1.46	1.03	.93
TC1265-2.5VAT	TC1265-2.5VAT-ND	2.5V, 800mA Max., LDO Volt. Reg. with Shutdown	TO-220-5	2.48	1.74	1.57
TC1265-2.5VOA	TC1265-2.5VOA-ND	2.5V, 800mA Max., LDO Volt. Reg. with Shutdown	8-SOIC	1.46	1.03	.93
TC1265-3.0VAT	TC1265-3.0VAT-ND	3.0V, 800mA Max., LDO Volt. Reg. with Shutdown	TO-220-5	2.48	1.74	1.57
TC1265-3.0VOA	TC1265-3.0VOA-ND	3.0V, 800mA Max., LDO Volt. Reg. with Shutdown	8-SOIC	1.46	1.03	.93
TC1265-3.3VAT	TC1265-3.3VAT-ND	3.3V, 800mA Max., LDO Volt. Reg. with Shutdown	TO-220-5	2.48	1.74	1.57
TC1265-3.3VOA	TC1265-3.3VOA-ND	3.3V, 800mA Max., LDO Volt. Reg. with Shutdown	8-SOIC	1.46	1.03	.93

Low Dropout Voltage Regulators

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC46LR3003ECT713	TC46LR3003ECT71CT-ND	3V, 35mA, LDO Voltage Reg.	SOT-23-5	1.40	1.21	1.09
TC46LR3303ECT713	TC46LR3303ECT71CT-ND	3.3V, 35mA, LDO Voltage Reg.	SOT-23-5	1.40	1.21	1.09
TC47BR3003ECT713	TC47BR3003ECT71CT-ND	3V, Voltage Regulator Controller	SOT-23-5	1.08	.94	.84
TC47BR3303ECT713	TC47BR3303ECT71CT-ND	3.3V, Voltage Regulator Controller	SOT-23-5	1.08	.94	.84
TC47BR5003ECT	TC47BR5003ECT-ND	5V, Voltage Regulator Controller	SOT-23-5	1.08	.94	.84
TC55RP3002ECB713	TC55RP3002ECB71CT-ND	3V, 250mA max., LDO Volt. Reg.	SOT-23A	.97	.84	.76
TC55RP3002ECB713	TC55RP3002ECB71TR-ND	3V, 250mA max., LDO Volt. Reg.	SOT-23A	1680.01/3,000		
TC55RP3302ECB713	TC55RP3302ECB71CT-ND	3.3V, 250mA max., LDO Volt. Reg.	SOT-23A	.97	.84	.76
TC55RP3302ECB713	TC55RP3302ECB71TR-ND	3.3V, 250mA max., LDO Volt. Reg.	SOT-23A	1680.01/3,000		
TC55RP3302EMB713	TC55RP3302EMB71CT-ND	3.3V, 250mA max., LDO Volt. Reg.	SOT-89	.97	.84	.76
TC55RP3302EMB713	TC55RP3302EMB71TR-ND	3V, 250mA max., LDO Volt. Reg.	SOT-89	560.00/1,000		
TC55RP5002ECB713	TC55RP5002ECB71CT-ND	5V, 250mA, max., LDO Volt. Reg.	SOT-23A	.97	.84	.76
TC55RP5002ECB713	TC55RP5002ECB71TR-ND	5V, 250mA max., LDO Volt. Reg.	SOT-23A	1680.01/3,000		
TC55RP5002EMB713	TC55RP5002EMB71CT-ND	5V, 250mA, max., LDO Volt. Reg.	SOT-89	.97	.84	.76
TC55RP5002EMB713	TC55RP5002EMB71TR-ND	3V, 250mA max., LDO Volt. Reg.	SOT-89	560.00/1,000		
TC1015-2.5VCT713	TC10152.5VCT713CT-ND	2.5V, LDO Reg. with Shutdown	SOT-23A-5	.83	.66	.58
TC1015-2.5VCT713	TC10152.5VCT713TR-ND	2.5V, LDO Reg. with Shutdown	SOT-23A-5	1320.00/3,000		
TC1015-2.8VCT713	TC10152.8VCT713CT-ND	2.8V, LDO Reg. with Shutdown	SOT-23A-5	.74	.65	.58
TC1015-2.8VCT713	TC10152.8VCT713TR-ND	2.8V, LDO Reg. with Shutdown	SOT-23A-5	1320.00/3,000		
TC1015-3.0VCT713	TC10153.0VCT713CT-ND	3.0V, LDO Reg. with Shutdown	SOT-23A-5	.83	.66	.58
TC1015-3.0VCT713	TC10153.0VCT713TR-ND	3.0V, LDO Reg. with Shutdown	SOT-23A-5	1320.00/3,000		
TC1015-4.0VCT713	TC10154.0VCT713CT-ND	4.0V, LDO Reg. with Shutdown	SOT-23A-5	.83	.66	.58
TC1015-4.0VCT713	TC10154.0VCT713TR-ND	4.0V, LDO Reg. with Shutdown	SOT-23A-5	1320.00/3,000		
TC1055-2.5VCT713	TC10552.5VCT713CT-ND	2.5V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	.83	.66	.58
TC1055-2.5VCT713	TC10552.5VCT713TR-ND	2.5V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	1320.00/3,000		
TC1055-2.7VCT713	TC10552.7VCT713CT-ND	2.7V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	.83	.66	.58
TC1055-2.7VCT713	TC10552.7VCT713TR-ND	2.7V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	1320.00/3,000		
TC1055-3.0VCT713	TC10553.0VCT713CT-ND	3.0V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	.83	.66	.58
TC1055-3.0VCT713	TC10553.0VCT713TR-ND	3.0V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	1320.00/3,000		
TC1055-3.3VCT713	TC10553.3VCT713CT-ND	3.3V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	.83	.66	.58
TC1055-3.3VCT713	TC10553.3VCT713TR-ND	3.3V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	1320.00/3,000		
TC1055-5.0VCT713	TC10555.0VCT713CT-ND	5.0V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	.83	.66	.58
TC1055-5.0VCT713	TC10555.0VCT713TR-ND	5.0V, LDO Reg. with Shutdown and Error Output	SOT-23A-5	1320.00/3,000		
TC1071VCT713	TC1071VCT713CT-ND	Adj. LDO Reg. with Shutdown	SOT-23A-5	.90	.78	.70
TC1071VCT713	TC1071VCT713TR-ND	Adj. LDO Reg. with Shutdown	SOT-23A-5	1590.00/3,000		
TC1073-2.5VCH713	TC10732.5VCH713CT-ND	2.5V, LDO Reg. with Shutdown, Error and Bypass	SOT-23A-6	.90	.78	.70
TC1073-2.5VCH713	TC10732.5VCH713TR-ND	2.5V, LDO Reg. with Shutdown, Error and Bypass	SOT-23A-6	1590.00/3,000		
TC1073-3.0VCH713	TC10733.0VCH713CT-ND	3.0V, LDO Reg. with Shutdown, Error and Bypass	SOT-23A-6	.90	.78	.70
TC1073-3.0VCH713	TC10733.0VCH713TR-ND	3.0V, LDO Reg. with Shutdown, Error and Bypass	SOT-23A-6	1590.00/3,000		
TC1073-3.3VCH713	TC10733.3VCH713CT-ND	3.3V, LDO Reg. with Shutdown, Error and Bypass	SOT-23A-6	.90	.78	.70
TC1073-3.3VCH713	TC10733.3VCH713TR-ND	3.3V, LDO Reg. with Shutdown, Error and Bypass	SOT-23A-6	1590.00/3,000		
TC1073-5.0VCH713	TC10735.0VCH713CT-ND	5.0V, LDO Reg. with Shutdown, Error and Bypass	SOT-23A-6	.90	.78	.70
TC1073-5.0VCH713	TC10735.0VCH713TR-ND	5.0V, LDO Reg. with Shutdown, Error and Bypass	SOT-23A-6	1590.00/3,000		
TC1185-2.5VCT713	TC11852.5VCT713CT-ND	2.5V, 150mA CMOS LDO Regulator	SOT-23A-5	.90	.72	.63
TC1185-2.5VCT713	TC11852.5VCT713TR-ND	2.5V, 150mA CMOS LDO Regulator	SOT-23A-5	1410.00/3,000		
TC1185-2.7VCT713	TC11852.7VCT713CT-ND	2.7V, 150mA CMOS LDO Regulator	SOT-23A-5	.90	.72	.63
TC1185-2.7VCT713	TC11852.7VCT713TR-ND	2.7V, 150mA CMOS LDO Regulator	SOT-23A-5	1410.00/3,000		
TC1185-2.8VCT713	TC11852.8VCT713CT-ND	2.8V, LDO Regulator with SD and Reference Bypass	SOT-23A-5	.90	.72	.63
TC1185-2.8VCT713	TC11852.8VCT713TR-ND	2.8V, LDO Regulator with SD and Reference Bypass	SOT-23A-5	1410.00/3,000		
TC1185-2.85VCT713	TC11852.85VCT71CT-ND	2.85V, LDO Regulator with SD and Reference Bypass	SOT-23A-5	.81	.71	.63
TC1185-2.85VCT713	TC11852.85VCT71TR-ND	2.85V, LDO Regulator with SD and Reference Bypass	SOT-23A-5	1410.00/3,000		
TC1185-3.0VCT713	TC11853.0VCT713CT-ND	3.0V, 150mA CMOS LDO Regulator	SOT-23A-5	.90	.72	.63
TC1185-3.0VCT713	TC11853.0VCT713TR-ND	3.0V, 150mA CMOS LDO Regulator	SOT-23A-5	1410.00/3,000		
TC1185-3.3VCT713	TC11853.3VCT713CT-ND	3.3V, 150mA CMOS LDO Regulator	SOT-23A-5	.90	.72	.63
TC1185-3.3VCT713	TC11853.3VCT713TR-ND	3.3V, 150mA CMOS LDO Regulator	SOT-23A-5	1410.00/3,000		
TC1185-4.0VCT713	TC11854.0VCT713CT-ND	4.0V, 150mA CMOS LDO Regulator	SOT-23A-5	.90	.72	.63
TC1185-4.0VCT713	TC11854.0VCT713TR-ND	4.0V, 150mA CMOS LDO Regulator	SOT-23A-5	1410.00/3,000		
TC1185-5.0VCT713	TC11855.0VCT713CT-ND	5.0V, 150mA CMOS LDO Regulator	SOT-23A-5	.90	.72	.63
TC1185-5.0VCT713	TC11855.0VCT713TR-ND	5.0V, 150mA CMOS LDO Regulator	SOT-23A-5	1410.00/3,000		

Power MOSFET Drivers

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC426COA	TC426COA-ND	1.5A High Speed Inverting Dual MOSFET Driver	8-SOIC	1.63	1.03	.93
TC426CPA	TC426CPA-ND	1.5A High Speed Inverting Dual MOSFET Driver	8-Dip	1.63	1.03	.93
TC426EOA	TC426EOA-ND	1.5A High Speed Inverting Dual MOSFET Driver	8-SOIC	1.70	1.07	.97
TC426MJA	TC426MJA-ND	1.5A High Speed Inverting Dual MOSFET Driver	8-CDip	6.73	4.73	4.28
TC427COA	TC427COA-ND	1.5A High Speed Dual MOSFET Driver	8-SOIC	1.63	1.03	.93
TC427CPA	TC427CPA-ND	1.5A High Speed Dual MOSFET Driver	8-Dip	1.63	1.03	.94
TC427EOA	TC427EOA-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-SOIC	1.70	1.07	.97
TC427EPA	TC427EPA-ND	1.5A High Speed Complementary Dual MOSFET Driver	8-Dip	1.70	1.07	.97
TC427MJA	TC427MJA-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-CDip	6.73	4.73	4.28
TC428CPA	TC428CPA-ND	1.5A High Speed Complementary Dual MOSFET Driver	8-Dip	1.63	1.03	.93
TC429CPA	TC429CPA-ND	Fast CMOS Power MOSFET Driver	8-Dip	2.13	1.34	1.22
TC1411CPA	TC1411CPA-ND	1A High Speed Inverting MOSFET Driver	8-Dip	.97	.68	.61
TC1411NCPA	TC1411NCPA-ND	1A High Speed Non-Inverting MOSFET Driver	8-Dip	.97	.68	.61
TC1413NCPA	TC1413NCPA-ND	3A High Speed Non-Inverting MOSFET Driver	8-Dip	1.24	.86	.78
TC1426COA	TC1426COA-ND	1.2A Inverting Dual MOSFET Driver	8-SOIC	1.60	1.01	.92
TC1426COA713	TC1426COA713CT-ND	1.2A Inverting Dual MOSFET Driver	8-SOIC	1.44	1.25	1.12
TC1426COA713	TC1426COA713TR-ND	1.2A Inverting Dual MOSFET Driver	8-SOIC	2772.00/3,300		
TC1426CPA	TC1426CPA-ND	1.2A Inverting Dual MOSFET Driver	8-Dip	1.60	1.01	.92
TC1427COA	TC1427COA-ND	1.2A Non-Inverting Dual MOSFET Driver	8-SOIC	1.60	1.01	.92
TC1427COA713	TC1427COA713CT-ND	1.2A Non-Inverting Dual MOSFET Driver	8-SOIC	1.44	1.25	1.12
TC1427COA713	TC1427COA713TR-ND	1.2A Non-Inverting Dual MOSFET Driver	8-SOIC	2772.00/3,300		
TC1427CPA	TC1427CPA-ND	1.2A Non-Invert Dual MOSFET Drvr.	8-Dip	1.60	1.01	.92
TC1428COA	TC1428COA-ND	1.2A Complementary Dual MOSFET Driver	8-SOIC	1.60	1.01	.92
TC4404COA	TC4404COA-ND	1.5A Open-Drain Inverting Dual MOSFET Driver	8-SOIC	2.25	1.58	1.43
TC4404CPA	TC4404CPA-ND	1.5A Open-Drain Inverting Dual MOSFET Driver	8-Dip	2.25	1.58	1.43
TC4405COA	TC4405COA-ND	1.5A Open-Drain Non-Inverting Dual MOSFET Driver	8-SOIC	2.25	1.58	1.43
TC4405CPA	TC4405CPA-ND	1.5A Open-Drain Noninverting Dual MOSFET Driver	8-Dip	2.25	1.58	1.43
TC4420COA	TC4420COA-ND	6A High Speed Single Output MOSFET Driver	8-SOIC	1.60	1.01	.92
TC4420COA713	TC4420COA713CT-ND	6A High Speed Single Output MOSFET Driver	8-SOIC	1.44	1.25	1.12
TC4420COA713	TC4420COA713TR-ND	6A High Speed Single Output MOSFET Driver	8-SOIC	2772.00/3,300		
TC4420CPA	TC4420CPA-ND	6A High Speed Single Output MOSFET Driver	8-Dip	1.60	1.01	.92
TC4420EPA	TC4420EPA-ND	6A High Speed Single Output MOSFET Driver	8-Dip	1.68	1.05	.95
TC4420MJA	TC4420MJA-ND	6A High Speed Single Output MOSFET Driver	8-CDip	13.03	9.14	8.27
TC4421CAT	TC4421CAT-ND	9A Peak FET Driver with Inverted Output	TO-220-5	3.83	2.69	2.43
TC4421CPA	TC4421CPA-ND	9A Peak FET Driver with Inverted Out	8-Dip	3.20	2.02	1.82
TC4422CPA	TC4422CPA-ND	9A Peak FET Driver with Non-Inverted Output	8-Dip	3.20	2.02	1.82
TC4422EPA	TC4422EPA-ND	9A Peak FET Driver with Non-inverted Output	8-Dip	3.35	2.12	1.92
TC4423CPA	TC4423CPA-ND	3A High Speed Inverting Dual MOSFET Driver	8-Dip	2.63	1.66	1.51
TC4424CPA	TC4424CPA-ND	3A High Speed Non-Inverting Dual MOSFET Driver	8-Dip	2.63	1.66	1.51
TC4424COE	TC4424COE-ND	3A High Speed Non-Inverting Dual MOSFET Driver	(wide)16-SOIC	2.36	1.66	1.50
TC4425CPA	TC4425CPA-ND	3A High Speed 1 Inverting/1 Non-Inv. Dual MOSFET Driver	8-Dip	2.36	1.66	1.50
TC4426COA	TC4426COA-ND	1.5A High Speed Inverting Dual MOSFET Driver	8-SOIC	1.63	1.03	.93
TC4426CPA	TC4426CPA-ND	1.5A Peak Dual FET Driver with Inverted Output	8-Dip	1.63	1.03	.93
TC4426EOA	TC4426EOA-ND	1.5A High Speed Inverting Dual MOSFET Driver	8-SOIC	1.70	1.07	.97
TC4426EPA	TC4426EPA-ND	1.5A High Speed Inverting Dual MOSFET Driver	8-Dip	1.70	1.07	.97
TC4427ACOA	TC4427ACOA-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-SOIC	1.53	1.07	.97

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MICROCHIP POWER MANAGEMENT *(Continued)*

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC4427ACPA	TC4427ACPA-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-Dip	1.53	1.07	.97
TC4427COA	TC4427COA-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-SOIC	1.63	1.03	.93
TC4427COA713	TC4427COA713CT-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-SOIC	1.46	1.27	1.14
TC4427COA713	TC4427COA713TR-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-SOIC	2838.00/3,300		
TC4427CPA	TC4427CPA-ND	1.5A Peak Dual FET Driver with Non-Inverting Output	8-Dip	1.63	1.03	.93
TC4427EPA	TC4427EPA-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-Dip	1.70	1.07	.97
TC4427EOA	TC4427EOA-ND	1.5A High Speed Non-Inverting Dual MOSFET Driver	8-SOIC	1.70	1.07	.97
TC4428COA	TC4428COA-ND	1.5A High Speed Complementary Dual MOSFET Driver	8-SOIC	1.63	1.03	.93
TC4428CPA	TC4428CPA-ND	1.5A Peak Dual FET Driver with Complementary Output	8-Dip	1.63	1.03	.93
TC4428EOA	TC4428EOA-ND	1.5A High Speed Complementary Dual MOSFET Driver	8-SOIC	1.70	1.07	.97
TC4429COA	TC4429COA-ND	6A High Speed Inverting Single MOSFET Driver	8-SOIC	1.44	1.01	.91
TC4429CPA	TC4429CPA-ND	6A High Speed Inverting Single MOSFET Driver	8-Dip	1.44	1.01	.91
TC4432COA	TC4432COA-ND	1.5A High-Speed 30V Non-Inverting MOSFET Driver	8-SOIC	2.25	1.58	1.43
TC4432CPA	TC4432CPA-ND	1.5A High Speed 30V Non-Inverting MOSFET Driver	8-Dip	2.25	1.58	1.43
TC4467CPD	TC4467CPD-ND	Quad CMOS Logic Driver, NAND Gate, Sourced and Sinked Output	14-Dip	4.00	2.52	2.28
TC4468CPD	TC4468CPD-ND	Quad CMOS Logic Driver, AND Gate, Sourced and Sinked Output	14-Dip	4.00	2.52	2.28
TC4468COE	TC4468COE-ND	Quad CMOS Logic Driver, AND Gate, Sourced and Sinked Output	(wide)16-SOIC	3.60	2.52	2.28
TC4469CPD	TC4469CPD-ND	Quad CMOS Logic Driver, AND/Inverter Gate, Sourced & Sinked Output	14-Dip	4.00	2.52	2.28
TC4469COE	TC4469COE-ND	Quad CMOS Logic Driver, AND/Inverter Gate, Sourced and Sinked Output	(wide)16-SOIC	3.60	2.52	2.28
TC4469COE713	TC4469COE713CT-ND	Quad CMOS Logic Driver, AND/Inverter Gate, Sourced and Sinked Output	(wide)16-SOIC	3.60	3.12	2.80
TC4469COE713	TC4469COE713TR-ND	Quad CMOS Logic Driver, AND/Inverter Gate, Sourced and Sinked Output	(wide)16-SOIC	2100.00/1,000		
TC4489CPD	TC4489CPD-ND	Quad CMOS Logic Driver, AND/Inverter Gate, Sourced Output	14-Dip	4.16	3.61	3.24

Pulse Width Modulators

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC170COE-ND	TC170COE-ND	PWM CMOS Current Mode Controller	(Narrow)16-SOIC	6.75	4.74	4.29

MICROCHIP SYSTEM MANAGEMENT

CPU / System Supervisors

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC32MCZB	TC32MCZB-ND	4.5V-5.5V, 3-Pin System Supervisor w/Pwr. Supply Monitor and On-Board Watchdog Circuit	TO-92	1.71	1.20	1.08
TC32MEDB713	TC32MEDB713CT-ND	4.5V-5.5V, 3-Pin System Supervisor w/Pwr. Supply Monitor and On-Board Watchdog Circuit	SOT-223	2.03	1.76	1.58
TC32MEDB713	TC32MEDB713TR-ND	4.5V-5.5V, 3-Pin System Supervisor w/Pwr. Supply Monitor and On-Board Watchdog Circuit	SOT-223	4759.99/4,000		
TC1232COA	TC1232COA-ND	4.5-4.75V, Adj. MPU Monitor	8-SOIC	2.15	1.36	1.23
TC1232CPA	TC1232CPA-ND	4.5-4.75V, Adj. MPU Monitor	8-Dip	2.08	1.31	1.19
TC1232EOA	TC1232EOA-ND	4.5V-4.75V, Adjustable Microprocessor Monitor	8-SOIC	2.48	1.74	1.57
TC1232EPA	TC1232EPA-ND	4.5V-4.75V, Adjustable Microprocessor Monitor	8-Dip	2.65	1.67	1.52
TC1270TERCTR	TC1270TERCTRCT-ND	3.08V, Reset Monitor	SOT-143-4	1.13	.90	.79
TC1270TERCTR	TC1270TERCTRTR-ND	3.08V, Reset Monitor	SOT-143-4	1800.00/3,000		
TCM809JVNB713	TCM809JVNB713CT-ND	4.0V, Reset Monitor	SOT-23B-3	.48	.38	.34
TCM809JVNB713	TCM809JVNB713TR-ND	4.0V, Reset Monitor	SOT-23B-3	840.00/3,000		
TCM809LENB713	TCM809LENB713CT-ND	4.63V, µP Reset Monitor, Active Low Output	SOT-23B	.43	.38	.35
TCM809LENB713	TCM809LENB713TR-ND	4.63V, µP Reset Monitor, Active Low Output	SOT-23B	840.00/3,000		
TCM809MENB713	TCM809MENB713CT-ND	4.38V, µP Reset Monitor, Active Low Output	SOT-23B	.61	.53	.48
TCM809MENB713	TCM809MENB713TR-ND	4.38V, µP Reset Monitor, Active Low Output	SOT-23B	840.00/3,000		
TCM809RENB713	TCM809RENB713CT-ND	2.63V, µP Reset Monitor, Active Low Output	SOT-23B	.43	.38	.35
TCM809RENB713	TCM809RENB713TR-ND	2.63V, µP Reset Monitor, Active Low Output	SOT-23B	840.00/3,000		
TCM809SVNB713	TCM809SVNB713CT-ND	2.93V, Reset Monitor	SOT23B-3	.48	.38	.34
TCM809SVNB713	TCM809SVNB713TR-ND	2.93V, Reset Monitor	SOT23B-3	840.00/3,000		
TCM809TVNB713	TCM809TVNB713CT-ND	3.08V, Reset Monitor	SOT23B-3	.48	.38	.34
TCM809TVNB713	TCM809TVNB713TR-ND	3.08V, Reset Monitor	SOT23B-3	840.00/3,000		
TCM810LENB713	TCM810LENB713CT-ND	4.63V, µP Reset Monitor, Active High Output	SOT-23B	.43	.38	.35
TCM810LENB713	TCM810LENB713TR-ND	4.63V, µP Reset Monitor, Active Low Output	SOT-23B	840.00/3,000		
TCM810MENB713	TCM810MENB713CT-ND	4.38V, µP Reset Monitor, Active High Output	SOT-23B	.61	.53	.48
TCM810RENB713	TCM810RENB713CT-ND	2.63V, µP Reset Monitor, Active High Output	SOT-23B	.43	.38	.35
TCM810RENB713	TCM810RENB713TR-ND	2.63V, µP Reset Monitor, Active High Output	SOT-23B	840.00/3,000		
TCM810SENB713	TCM810SENB713CT-ND	2.93V, µP Reset Monitor, Active High Output	SOT-23B	.61	.53	.48
TCM810SENB713	TCM810SENB713TR-ND	2.93V, µP Reset Monitor, Active High Output	SOT-23B	1050.00/3,000		
TCM810TENB713	TCM810TENB713CT-ND	3.08V, µP Reset Monitor, Active High Output	SOT-23B	.61	.53	.48
TCM810TENB713	TCM810TENB713TR-ND	3.08V, µP Reset Monitor, Active High Output	SOT-23B	1050.00/3,000		

Voltage Detectors

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC44VC2703EZB	TC44VC2703EZB-ND	2.7V, Volt. Detector CMOS Output	TO-92	1.19	1.04	.93
TC54VC2702ECB713	TC54VC2702ECB71CT-ND	2.7V, Volt. Detector CMOS Output	SOT-23A	.83	.73	.65
TC54VC2702ECB713	TC54VC2702ECB71TR-ND	2.7V, Volt. Detector CMOS Output	SOT-23A	1470.00/3,000		
TC54VC2902ECB713	TC54VC2902ECB71CT-ND	2.9V, Volt. Detector CMOS Output	SOT-23A	.83	.73	.65
TC54VC2902ECB713	TC54VC2902ECB71TR-ND	2.9V, Volt. Detector CMOS Output	SOT-23A	1470.00/3,000		
TC54VC4302ECB713	TC54VC4302ECB71CT-ND	4.3V, Volt. Detector CMOS Output	SOT-23A	.83	.73	.65
TC54VC4302ECB713	TC54VC4302ECB71TR-ND	4.3V, Volt. Detector CMOS Output	SOT-23A	1443.00/3,000		
TC54VC4302EMB713	TC54VC4302EMB71CT-ND	4.3V, Volt. Detector CMOS Output	SOT-89	.83	.73	.65
TC54VC4302EMB713	TC54VC4302EMB71TR-ND	4.3V, Volt. Detector CMOS Output	SOT-89	481.00/1,000		
TC54VC4502ECB713	TC54VC4502ECB71CT-ND	4.5V, Volt. Detector CMOS Output	SOT-23A	.83	.73	.65
TC54VC4502ECB713	TC54VC4502ECB71TR-ND	4.5V, Volt. Detector CMOS Output	SOT-23A	1443.00/3,000		
TC54VN2702ECB713	TC54VN2702ECB71CT-ND	2.7V, Volt. Detector N-Ch., O.D.	SOT-23A	.83	.73	.65
TC54VN2702ECB713	TC54VN2702ECB71TR-ND	2.7V, Volt. Detector N-Ch., O.D.	SOT-23A	1470.00/3,000		
TC54VN2902ECB713	TC54VN2902ECB71CT-ND	2.9V, Volt. Detector N-Ch., O.D.	SOT-23A	.83	.73	.65
TC54VN2902ECB713	TC54VN2902ECB71TR-ND	2.9V, Volt. Detector N-Ch., O.D.	SOT-23A	1470.00/3,000		
TC54VN3002ECB713	TC54VN3002ECB71CT-ND	3.0V, Voltage Detector N-Chan, Open Drain	SOT-23A	.83	.73	.65
TC54VN3002ECB713	TC54VN3002ECB71TR-ND	3.0V, Voltage Detector N-Chan, Open Drain	SOT-23A	1470.00/3,000		
TC54VN4302ECB713	TC54VN4302ECB71CT-ND	4.3V, Volt. Detector N-Ch., O.D.	SOT-23A	.83	.73	.65
TC54VN4302ECB713	TC54VN4302ECB71TR-ND	4.3V, Volt. Detector N-Ch., O.D.	SOT-23A	1443.00/3,000		
TC54VN4502ECB713	TC54VN4502ECB71CT-ND	4.5V, Volt. Detector N-Ch., O.D.	SOT-23A	.83	.73	.65
TC54VN4502ECB713	TC54VN4502ECB71TR-ND	4.5V, Volt. Detector N-Ch., O.D.	SOT-23A	1443.00/3,000		
TC54VN4502EMB713	TC54VN4502EMB71CT-ND	4.5V, Volt. Detector N-Ch., O.D.	SOT-89	.83	.73	.65
TC54VN4502EMB713	TC54VN4502EMB71TR-ND	4.5V, Volt. Detector N-Ch., O.D.	SOT-89	481.00/1,000		

MICROCHIP THERMAL MANAGEMENT

Voltage Output Temperature Sensors

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC1023VOA	TC1023VOA-ND	Temp. Sensor -40°C to 100°C (.25V, @ 25°C)	8-SOIC	1.35	1.17	1.05
TC1023VUA	TC1023VUA-ND	Temp. Sensor -40°C to 100°C (.25V, @ 25°C)	8-MSOP	1.42	1.23	1.11

Logic Output Temperature Sensors

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC620CCPA	TC620CCPA-ND	Solid State Temp. Sensor (Non-Inverting)	8-Dip	2.30	1.45	1.32
TC621CCOA	TC621CCOA-ND	4.5V Solid State Temp. Sensor (Inverting)	8-SOIC	2.18	1.53	1.39
TC622EPA	TC622EPA-ND	4.5V Solid State Temp. Sensor	8-Dip	1.62	1.14	1.03
TC622VAT	TC622VAT-ND	4.5V Solid State Temp. Sensor	TO-220	2.54	1.78	1.61
TC622VOA	TC622VOA-ND	4.5V Solid State Temp. Sensor	8-SOIC	1.85	1.29	1.17

Serial Temperature Sensors

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC74A0-5.0VCTTR	TC74A0-5.0VCTCT-ND	5V, Digital Thermal Sensor	SOT23A-5	1.73	1.38	1.21
TC74A0-5.0VCTTR	TC74A0-5.0VCTTR-ND	5V, Digital Thermal Sensor	SOT23A-5	2730.00/3,000		
TC74A5-3.3VCTTR	TC74A5-3.3VCTCT-ND	3.3V, Digital Thermal Sensor	SOT23A-5	1.73	1.38	1.21
TC74A5-3.3VCTTR	TC74A5-3.3VCTTR-ND	3.3V, Digital Thermal Sensor	SOT23A-5	2730.00/3,000		
TC74A5-5.0VCTTR	TC74A5-5.0VCTCT-ND	5V, Digital Thermal Sensor	SOT23A-5	1.73	1.38	1.21
TC74A5-5.0VCTTR	TC74A5-5.0VCTTR-ND	5V, Digital Thermal Sensor	SOT23A-5	2730.00/3,000		
TCN75-3.3MOA	TCN75-3.3MOA-ND	3.3V, 2-Wire Serial Temp. Sensor	8-SOIC	1.45	.96	.92
TCN75-3.3MUA	TCN75-3.3MUA-ND	3.3V, 2-Wire Serial Temp. Sensor	8-MSOP	1.50	1.00	.95
TCN75-5.0MOA	TCN75-5.0MOA-ND	5.0V, 2-Wire Serial Temp. Sensor	8-SOIC	1.45	.96	.92
TCN75-5.0MUA	TCN75-5.0MUA-ND	5.0V, 2-Wire Serial Temp. Sensor	8-MSOP	1.50	1.00	.95

Fan Controllers

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC642COA	TC642COA-ND	PWM Fan Speed Controller with Fault Detection	8-SOIC	2.50	1.58	1.43
TC642CPA	TC642CPA-ND	PWM Fan Speed Controller with Fault Detection	8-Dip	2.55	1.62	1.46
TC642VPA	TC642VPA-ND	PWM Fan Speed Controller with Fault Detection	8-Dip	2.73	1.72	1.56
TC646VOA	TC646VOA-ND	PWM Fan Speed Controller with SD and Fault Detection	8-SOIC	2.60	1.64	1.48
TC646VPA	TC646VPA-ND	PWM Fan Speed Controller with SD and Fault Detection	8-Dip	2.73	1.72	1.56
TC648VOA713	TC648VOA713CT-ND	PWM Fan Speed Controller with Shutdown	8-SOIC	2.30	1.84	1.61
TC648VOA713	TC648VOA713TR-ND	PWM Fan Speed Controller with Shutdown	8-SOIC	3993.01/3,300		
TC648VPA	TC648VPA-ND	PWM Fan Speed Controller	8-Dip	2.40	1.51	1.37
TC652AGVUA	TC652AGVUA-ND	Integrated Temp. Sensor and Brushless DC Fan Controller w/Fault Detection and Over Temp. Alert	8-MSOP	2.70	1.70	1.54

High Precision Temperature-To-Voltage Converters

Microchip Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TC1046VNBTR	TC1046VNBTRCT-ND	Temperature to Voltage Converter -40°C to +125°C, 6.25mV/°C	SOT-23B	.83	.66	.58
TC1046VNBTR	TC1046VNBTRTR-ND	Temperature to Voltage Converter -40°C to +125°C, 6.25mV/°C	SOT-23B	1320.00/3,000		
TC1047AVNBTR	TC1047AVNBCT-ND	High Precision Temperature to Voltage Converter	SOT-23B	.88	.70	.62
TC1047AVNBTR	TC1047AVNBTR-ND	High Precision Temperature to Voltage Converter	SOT-23B	1380.00/3,000		

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LM385BZ-2.5LT-ND	—	Precision Volt Reference, 2.5V, 1.5%	TO-92	2.00	1.45	1.10
LT311AN8-ND	—	Voltage Converter	8-Dip	2.38	1.58	1.25
LT317AT-ND	—	Adjustable Positive Voltage Regulator	TO-220	3.75	2.50	2.15
LT318AN8-ND	—	15MHz High Speed Op Amp	8-Dip	3.38	2.25	1.95
LT323AT-ND	—	5V, 3A Voltage Regulator	TO-220	4.00	2.67	2.50
LT337AT-ND	—	Adjustable Negative Voltage Regulator	TO-220	3.75	2.50	2.15
LT1001ACN8-ND	—	Single Precision Op Amp	8-Dip	5.88	3.92	3.40
LT1001CN8-ND	—	Single Precision Op Amp	8-Dip	2.88	2.10	1.90
LT1001CS8-ND	—	Single Precision Op Amp	8-SOIC	3.63	2.42	2.15
LT1002CN-ND	—	Dual Matched Precision Op Amp	14-Dip	5.25	3.50	2.95
LT1004CS8-1.2-ND	—	Micropower 1.2 Voltage Reference	8-SOIC	2.88	1.92	1.65
LT1004CS8-2.5-ND	—	Micropower 2.5 Voltage Reference	8-SOIC	2.88	1.92	1.65
LT1004CZ-1.2-ND	—	Micropower 1.2 Voltage Reference	TO-92	2.38	1.58	1.35
LT1004CZ-2.5-ND	—	Micropower 2.5 Voltage Reference	TO-92	2.38	1.58	1.35
LT1004IS8-1.2-ND	—	Micropower 1.2 Voltage Reference	8-SOIC	5.63	3.75	3.20
LT1004IS8-2.5-ND	—	Micropower 2.5 Voltage Reference	8-SOIC	5.63	3.75	3.20
LT1004IZ-2.5-ND	—	Micropower 2.5 Voltage Reference	TO-92	5.00	3.33	2.85
LT1006CN8-ND	—	5V Single Precision Op Amp	8-Dip	2.88	1.92	1.60
LT1006S8-ND	—	5V Single Precision Op Amp	8-SOIC	3.50	2.33	1.95
LT1007ACN8-ND	—	Single Low Noise, High-Speed, Precision Op Amp	8-Dip	8.75	5.83	5.00
LT1007CN8-ND	—	Single Low Noise, High-Speed, Precision Op Amp	8-Dip	3.63	2.42	1.95
LT1007CS8-ND	9176B	Single Low Noise, High-Speed, Precision Op Amp	8-SOIC	4.13	2.75	2.15
LT1007IS8-ND	—	Single Low Noise, High-Speed, Op Amp, Ind. Temp.	8-SOIC	5.63	3.75	3.10
LT1008CN8-ND	—	Precision Low Noise Op Amp with Microvolt Offset	8-Dip	5.50	3.67	3.10
LT1009CMS8-ND	—	2.5V Reference Shunt Regulator	8-MSOP	3.75	2.49	2.00
LT1009CMS8TR-ND	—	2.5V Reference Shunt Regulator	8-MSOP	4775.00/2,500		
LT1009CZ-ND	—	2.5V Reference Shunt Regulator	TO-92	2.38	1.58	1.35
LT1009IS8-ND	—	2.5V Reference Shunt Regulator	8-SOIC	4.50	3.00	2.55
LT1009IZ-ND	—	2.5V Reference Shunt Regulator	TO-92	4.13	2.75	2.35
LT1009S8-ND	—	2.5V Reference Shunt Regulator	8-SOIC	3.13	2.08	1.85
LT1010CN8-ND	—	High Speed 150mA Power Buffer	8-Dip	4.38	2.92	2.50
LT1010CT-ND	—	High Speed 150mA Power Buffer	TO-220-5	5.00	3.33	2.85
LT1011ACN8-ND	—	5V Precision Voltage Comparator	8-Dip	5.25	3.50	2.85
LT1011AIS8-ND	—	5V Precision Voltage Comparator	8-SOIC	5.75	3.82	3.15
LT1011CN8-ND	—	5V Precision Voltage Comparator	8-Dip	2.38	1.58	1.40
LT1011CS8-ND	—	5V Precision Voltage Comparator	8-SOIC	3.00	2.00	1.70
LT1012ACN8-ND	—	Universal Single Precision Low Noise Op Amp	8-Dip	7.13	4.75	3.95
LT1012CN8-ND	—	Universal Single Precision Low Noise Op Amp	8-Dip	5.00	3.33	2.75
LT1012S8-ND	—	Universal Single Precision Low Noise Op Amp	8-SOIC	6.00	4.00	3.45
LT1013ACN8-ND	9176B	Dual Precision Op Amp	8-Dip	7.13	4.75	3.95
LT1013CN8-ND	9176B	Dual Precision Op Amp, Vos=300µV	8-Dip	4.25	2.83	2.40
LT1013DN8-ND	9176B	Dual Precision Op Amp, Vos=800µV	8-Dip	3.50	2.33	1.95
LT1013DS8-ND	9176B	Dual Precision Op Amp, Vos=800µV	8-SOIC	4.00	2.67	2.30
LT1014ACN-ND	9176B	Quad Precision Op Amp	14-Dip	12.75	8.50	7.10
LT1014CNLT-ND	9176B	Quad Precision Op Amp, Vos=300µV	14-Dip	9.38	6.25	5.35
LT1014DNLT-ND	9176B	Quad Precision Op Amp, Vos=800µV	14-Dip	6.25	4.17	3.60
LT1014DSW-ND	9176B	Quad Precision Op Amp	16-SOIC	7.38	4.92	4.15
LT1016CN8-ND	—	High-Speed, 10nS Comparator	8-Dip	5.50	3.67	2.95
LT1016CS8-ND	—	High-Speed, 10nS Comparator	8-SOIC	6.13	4.08	3.20
LT1017CN8-ND	9210B	Micropower Dual Comparator, 30µA Supply Current	8-Dip	3.63	2.42	2.10
LT1017CS8-ND	9210B	Micropower Dual Comparator, 30µA Supply Current	8-SOIC	4.00	2.67	2.30
LT1017IS8-ND	9210B	Micropower Dual Comparator, 30µA Supply Current	8-SOIC	4.88	3.25	2.75
LT1018CN8-ND	9210B	Micropower Dual Comparator, 110µA Supply Current	8-Dip	3.38	2.25	1.95
LT1018CS8-ND	9210B	Micropower Dual Comparator, 110µA Supply Current	8-SOIC	3.75	2.50	2.20
LT1019ACN8-2.5-ND	—	Prec. 2.5V Bandgap Reference (Elect. Improved) .02%	8-Dip	11.25	7.50	6.50
LT1019ACN8-4.5-ND	—	Prec. 4.5V Bandgap Reference (Elect. Improved) .02%	8-Dip	11.25	7.50	6.50
LT1019ACN8-5-ND	—	Prec. 5V Bandgap Reference (Elect. Improved) .02%	8-Dip	11.25	7.50	6.50
LT1019ACN8-10-ND	—	Prec. 10V Bandgap Reference (Elect. Improved) .02%	8-Dip	11.25	7.50	6.50
LT1019ACS8-2.5-ND	—	Prec. 2.5V Reference (Elect. Improved) .02%	8-SOIC	10.88	7.50	6.50
LT1019ACS8-5-ND	—	Prec. 5V Reference (Elect. Improved) .02%	8-SOIC	10.88	7.50	6.50
LT1019CN8-2.5-ND	—	Prec. 2.5V Bandgap Reference .02%	8-Dip	6.88	4.58	3.90
LT1019CN8-5-ND	—	Prec. 5V Bandgap Reference .02%	8-Dip	6.88	4.58	3.90
LT1019CN8-10-ND	—	Prec. 10V Bandgap Reference .02%	8-Dip	6.88	4.58	3.90
LT1019CS8-2.5-ND	—	Prec. 2.5V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-4.5-ND	—	Prec. 4.5V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-5-ND	—	Prec. 5V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-10-ND	—	Prec. 10V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019IN8-2.5-ND	—	Prec. 2.5V Bandgap Reference .02%	8-Dip	8.63	5.75	4.95
LT1020CN-ND	—	Micropower Volt. Regulator/Comparator, 2.5V Ref.	14-Dip	6.88	4.58	3.90
LT1020CSW-ND	—	Micropower Volt. Regulator/Comparator, 2.5V Ref.	16-SOIC	7.50	5.00	4.25
LT1021BCN8-5-ND	—	Precision 5V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021BCN8-7-ND	—	Precision 7V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021BCN8-10-ND	—	Precision 10V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021CCH-5-ND	—	Precision 5V Reference, 0.05% Tolerance	TO-5-8	9.38	6.25	5.35
LT1021CCN8-5-ND	—	Precision 5V Reference, TC 20ppm/°C	8-Dip	6.38	4.25	3.65
LT1021CCN8-10-ND	—	Precision 10V Reference, TC 20ppm/°C	8-Dip	6.38	4.25	3.65
LT1021CIN8-5-ND	—	Precision 5V Reference, TC 20ppm/°C	8-Dip	8.63	5.75	4.85
LT1021DCN8-5-ND	—	Precision 5V Reference, TC 20ppm/°C	8-Dip	4.75	3.17	2.75
LT1021DCN8-10-ND	—	Precision 10V Reference, TC 20ppm/°C	8-Dip	4.75	3.17	2.75
LT1021DCS8-5-ND	—	Precision 5V Reference, TC 20ppm/°C	8-SOIC	5.88	3.92	3.35
LT1021DCS8-10-ND	—	Precision 10V Reference, TC 20ppm/°C	8-SOIC	5.88	3.92	3.35
LT1022CN8-ND	—	High Speed Precision JFET Op Amp	8-Dip	5.00	3.33	2.95
LT1025ACN8-ND	—	Micropower Thermocouple Cold Junction Compensator	8-Dip	8.63	5.75	4.75
LT1025CN8-ND	—	Micropower Thermocouple Cold Junction Compensator	8-Dip	4.63	3.08	2.65
LT1026CN8-ND	—	Switched Capacitor Voltage Converter	8-Dip	3.75	2.50	2.10
LT1026CS8-ND	—	Switched Capacitor Voltage Converter	8-SOIC	4.25	2.83	2.30
LT1026IS8-ND	—	Switched Capacitor Voltage Converter	8-SOIC	5.38	3.57	2.69
LT1027BCN8-5-ND	9176B	5V Precision Reference, 2ppm/°C	8-Dip	9.25	6.17	4.95
LT1027CCN8-5-ND	9176B	5V Precision Reference, 3ppm/°C	8-Dip	8.38	5.58	4.50
LT1027CCS8-5-ND	—	5V Precision Reference, 3ppm/°C	8-SOIC	9.50	6.31	4.75
LT1027DCN8-5-ND	9176B	5V Precision Reference, 5ppm/°C	8-Dip	7.38	4.92	3.95
LT1027ECN8-5-ND	9176B	5V Precision Reference, 7.5ppm/°C	8-Dip	6.88	4.58	3.65
LT1027ECS8-5-ND	9176B	5V Precision Reference, 7.5ppm/°C	8-SOIC	4.63	3.10	2.40
LT1028ACN8-ND	9210B	Single, Ultra Low Noise Op Amp	8-Dip	13.13	8.75	7.55
LT1028CN8-ND	9210B	Single, Ultra Low Noise Op Amp	8-Dip	8.63	5.75	4.95
LT1028CS8-ND	9210B	Single, Ultra Low Noise Op Amp	8-SOIC	8.63	5.75	4.95
LT1029ACZ-ND	—	5V Precision Bandgap Reference, 20ppm/°C	TO-92	4.50	3.00	2.60
LT1029CZ-ND	—	5V Precision Bandgap Reference, 20ppm/°C	TO-92	2.75	1.83	1.60
LT1030CNLT-ND	—	Quad Low Power Line Driver	14-Dip	3.13	2.08	1.65
LT1031BCH-ND	—	Precision 10V Reference, 5ppm/°C	TO-5	13.50	9.00	7.70
LT1031DCH-ND	—	Precision 10V Reference, 25ppm/°C	TO-5	6.25	4.15	3.55
LT1032CN-ND	—	Quad Low Power Line Driver	14-Dip	4.50	3.00	2.55
LT1032CSW-ND	—	Quad Low Power Line Driver	16-SOIC	4.63	3.08	2.60
LT1033CT-ND	—	Adj. Negative Voltage Regulator, 3A, 1% Tolerance	TO-220	5.25	3.50	2.95
LT1034BCZ-1.2-ND	9210B	Dual 1.2V Reference, Max TC = 20 ppm/°C	TO-92	5.00	3.33	2.85
LT1034BCZ-2.5-ND	9210B	Dual 2.5V Reference, Max TC = 20 ppm/°C	TO-92	5.00	3.33	2.85
LT1034CS8-1.2-ND	9210B	Dual 1.2V Reference, Max TC = 40 ppm/°C	8-SOIC	4.50	3.00	2.40
LT1034CS8-2.5-ND	9210B	Dual 2.5V Reference, Max TC = 40 ppm/°C	8-SOIC	4.50	3.00	2.40
LT1034CZ-1.2-ND	9210B	Dual 1.2V Reference, Max TC = 40 ppm/°C	TO-92	3.75	2.50	2.15
LT1034CZ-2.5-ND	9210B	Dual 2.5V Reference, Max TC = 40 ppm/°C	TO-92	3.75	2.50	2.15
LT1034IS8-1.2-ND	—	Dual 1.2V Reference, Max TC = 40 ppm/°C	8-SOIC	6.25	4.17	3.35
LT1034IS8-2.5-ND	9210B	Dual 2.5V Reference, Max TC = 40 ppm/°C	8-SOIC	6.25	4.17	3.35
LT1037ACN8-ND	—	Single, Low Noise, High-Speed Precision Op Amp	8-Dip	8.75	5.83	5.00
LT1037CN8-ND	—	Single, Low Noise, High-Speed Precision Op Amp	8-Dip	3.63	2.42	1.95
LT1037CS8-ND	9176B	Single, Low Noise, High-Speed Precision Op Amp	8-SOIC	4.13	2.75	2.15
LT1039ACN-ND	—	15kV Triple RS232 Driver/Receiver with Shutdown	18-Dip	5.00	3.35	2.85
LT1039ACSW-ND	—	15kV Triple RS232 Driver/Receiver with Shutdown	18-SOIC	5.88	3.91	3.35
LT1039CN-ND	9175B	15kV Triple RS232 Driver/Receiver with Shutdown	18-Dip	4.38	2.92	2.45
LT1039CN16-ND	—	15kV Triple RS232 Driver/Receiver with Shutdown	16-Dip	3.75	2.75	2.10
LT1039CSW-ND	—	15kV Triple RS232 Driver/Receiver with Shutdown	18-SOIC	5.25	3.50	2.90
LT1054CN8-ND	9210B	Switched Capacitor Voltage Converter with Regulator	8-Dip	4.88	3.25	2.80
LT1054CSW-ND	—	Switched Capacitor Voltage Converter with Regulator	16-SOIC	6.00	4.00	3.25
LT1054CS8-ND	9210B	Switched Capacitor Voltage Converter with Regulator	8-SOIC	6.00	3.99	3.00
LT1054IN8-ND	9210B	Switched Capacitor Volt. Conv. with Reg., Ind. Temp.	8-Dip	7.13	4.75	3.95
LT1054ISW-ND	—	Switched Capacitor Volt. Conv. with Reg., Ind. Temp.	16-SOIC	8.63	5.75	4.85
LT1054IS8-ND	—	Switched Capacitor Volt. Conv. with Reg., Ind. Temp.	8-SOIC	8.63	5.75	4.65
LT1054LCS8-ND	—	Switched Capacitor Volt. Conv. with Reg., Ind. Temp.	8-SOIC	4.25	2.83	2.15
LT1055CN8-ND	—	Precision High-Speed JFET Op Amp	8-Dip	3.38	2.25	1.95
LT1056CN8-ND	—	Precision High-Speed JFET Op Amp	8-Dip	3.38	2.25	1.95
LT1056S8-ND	—	Precision High-Speed JFET Op Amp	8-SOIC	4.00	2.67	2.50
LT1057ACN8-ND	—	Dual Precision JFET Op Amp, 450µV	8-Dip	8.75	5.83	4.95
LT1057CN8-ND	9176B	Dual Precision JFET Op Amp, 600µV	8-Dip	4.50	3.00	2.55
LT1057S8-ND	9176B	Dual Precision JFET Op Amp	8-SOIC	4.75	3.17	2.95
LT1058ACN-ND	—	Quad Precision JFET Op Amp	14-Dip	16.50	11.00	9.55
LT1058CN-ND	—	Quad Precision JFET Op Amp	14-Dip	7.63	5.08	4.35
LT1058ISW-ND	—	Quad Precision JFET Op Amp	16-SOIC	17.88	11.92	10.30
LT1058SW-ND	—	Quad Precision JFET Op Amp	16-SOIC	8.88	5.92	5.00
LT1070CT-ND	—	5A High Power Switching Regulator	TO-220-5	10.63	7.08	5.65
LT1070HVCT-ND	—	5A High Power Switching Regulator	TO-220-5	13.75	9.17	7.35
LT1071CT-ND	—	2.5A High Power Switching Regulator	TO-220-5	8.63	5.75	4.75
LT1071HVCT-ND	—	2.5A High Power Switching Regulator	TO-220-5	11.25	7.50	6.20
LT1072CN8-ND	9210B	1.25A High Efficiency Switching Regulator	8-Dip	4.38	2.92	2.45
LT1072CS8-ND	9210B	1.25A High Efficiency Switching Regulator	8-SOIC	5.38	3.58	3.00
LT1072CT-ND	9210B	1.25A High Efficiency Switching Regulator	TO-220-5	5.63	3.75	2.95
LT1072HVCT-ND	9210B	1.25A High Efficiency Switching Regulator	TO-220-5	7.38	4.92	3.85
LT1072IN8-ND	—	1.25A High Efficiency Switching Regulator	8-Dip	6.13	4.08	3.45
LT1073CN8-ND	9176B	Adjustable DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1073CN8-5-ND	9176B	5V Fixed DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1073CN8-12-ND	9176B	12V Fixed DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1073CS8-ND	9176B	Adjustable DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1073CS8-5-ND	9176B	5V Fixed DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1073CS8-12-ND	9176B	12V Fixed DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1074CT-ND	9210B	5A Step Down Switching Regulator	TO-220-5	9.25	6.17	5.25
LT1074CT7-ND	9210B	5A Step Down Switching Regulator	TO-220-7	10.75	7.17	6.10
LT1074HVCT-ND	9210B	5A Step Down Switching Regulator	TO-220-5	13.88	9.25	7.90
LT1074HVCT7-ND	9210B	5A Step Down Switching Regulator	TO-220-7	15.38	10.25	8.75
LT1074HVIT-ND	9210B	5A Step Down Switching Regulator, Ind. Temp.	TO-220-5	18.75	12.50	10.65
LT1074HVIT7-ND	9210B	5A Step Down Switching Regulator, Ind. Temp	TO-220-7	20.25	13.50	11.20
LT1074IT-ND	9210B	5A Step Down Switching Regulator, Ind. Temp.	TO-220-5	12.50	8.33	7.10
LT1074IT7-ND	9210B	5A Step Down Switching Regulator, Ind. Temp	TO-220-7	13.75	9.15	7.65
LT1076CQ-ND	9210B	2A Step Down Switching Regulator	5-DD	7.50	5.00	4.00
LT1076CQ-5-ND	9176B	2A Step Down Switching Regulator	5-DD	7.50	5.00	4.00
LT1076CR-ND	9210B	2A Step-Down Switching Regulator	7-DD	8.13	5.42	4.35
LT1076CR-5-ND	9176B	2A Step-Down Switching Regulator	7-DD	8.13	5.42	4.35
LT1076CT-ND	9210B	2A Step Down Switching Regulator	TO-220-5	6.50	4.33	3.50
LT1076CT-5-ND	9176B	2A Step Down Switching Regulator	TO-220-5	6.50	4.33	3.50
LT1076CT7-ND	9210B	2A Step Down Switching Regulator	TO-220-7	7.50	5.00	4.00
LT1076HVCR-ND	9210B	2A Step Down Switching Regulator	7-DD	14.13	9.42	7.65
LT1076HVCT-ND	9210B	2A Step Down Switching Regulator	TO-220-5	11.38	7.58	6.05
LT1076HVCT-5-ND	9210B	2A Step Down 5V Switching Regulator	TO-220-5	11.38	7.58	6.05
LT1076HVIT-ND	9210B	2A Step Down Switching Regulator	TO-220-5	13.38	8.92	7.65
LT1076IT-ND	9210B	2A Step Down Switching Regulator	TO-220-5	8.88	5.92	5.05
LT1077ACN8-ND	9176B	Micropower Precision Single Op Amp	8-Dip	5.63	3.75	3.20
LT1077CN8-ND	9176B	Micropower Precision Single Op Amp	8-Dip	3.13	2.08	1.65
LT1077IS8-ND	9176B	Micropower Precision Single Op Amp	8-SOIC	4.38	2.91	2.40
LT1077S8-ND	9176B	Micropower Precision Single Op Amp	8-SOIC	3.63	2.42	2.05
LT1078ACN8-ND	9176B	Micropower Precision Dual Op Amp	8-Dip	9.00	6.00	5.15
LT1078CN8-ND	9176B	Micropower Precision Dual Op Amp	8-Dip	5.00	3.33	2.80
LT1078IN8-ND	9176B	Micropower Precision Dual Op Amp	8-Dip	6.50	4.33	3.75
LT1078IS8-ND	9176B	Micropower Precision Dual Op Amp	8-SOIC	8.38	5.60	4.85
LT1078S8-ND	9176B	Micropower Precision Dual Op Amp	8-SOIC	6.50	4.35	3.65
LT1079ACN-ND	9176B	Micropower Precision Quad Op Amp	14-Dip	11.25	7.50	6.50
LT1079CN-ND	9176B	Micropower Precision Quad Op Amp	14-Dip	6.25	4.17	3.50
LT1079IN-ND	9176B	Micropower Precision Quad Op Amp, Ind Temp.	14-Dip	7.75	5.17	4.45
LT1079ISW-ND	9176B	Micropower Precision Quad Op Amp, Ind Temp.	16-SOIC	10.13	6.75	5.70
LT1079SW-ND	9176B	Micropower Precision Quad Op Amp	16-SOIC	8.13	5.42	4.55
LT1080CN-ND	—	5V, Dual RS232 Driver/Receiver with Shutdown	18-Dip	5.63	3.75	3.15
LT1081CN-ND	—	5V, Dual RS232 Driver/Receiver	16-Dip	4.75	3.17	2.65
LT1081CSW-ND	—	5V, Dual RS232 Driver/Receiver	16-SOIC	6.00	4.00	3.35
LT1082CN8-ND	9210B	1A High Volt., High Efficiency Switching Regulator	8-Dip	8.13	5.42	4.60
LT1082CT-ND	9210B	1A High Volt., High Efficiency Switching Regulator	TO-220-5	9.38	6.25	5.35
LT1082IQ-ND	9210B	1A High Volt., High Efficiency Switching Regulator	5-DD	11.63	7.75	6.65
LT1082IT-ND	9210B	1A High Volt., High Efficiency Switching Regulator	TO-220-5	10.88	7.25	6.20
LT1083CP-ND	9210B	Adjustable 7.5A LDO Voltage Regulator	TO-3P	13.25	8.83	7.70
LT1083CP-5-ND	9210B	Fixed 5V, 7.5A LDO Voltage Regulator	TO-3P	13.25	8.83	7.70
LT1083CP-12-ND	9210B	Fixed 12V, 7.5A LDO Voltage Regulator	TO-3P	13.25	8.83	7.70
LT1084CP-ND	9210B	Adjustable 5A LDO Voltage Regulator	TO-3P	8.88	5.90	5.00
LT1084CP-5-ND	9210B	Fixed 5V, 5A LDO Voltage Regulator	TO-3P	8.88	5.90	5.00
LT1084CP-12-ND	9210B	Fixed 12V, 5A LDO Voltage Regulator	TO-3P	7.63	5.90	5.00
LT1084CT-ND	9210B	Adjustable 5A LDO Voltage Regulator	TO-220	7.75	5.20	4.45
LT1084CT-3.3-ND	9210B	Fixed 3.3V, 5A LDO Voltage Regulator	TO-220	7.75	5.20	4.45
LT1084CT-5-ND	9210B	Fixed 5V, 5A LDO Voltage Regulator	TO-220	7.75	5.20	4.45
LT1084CT-12-ND	9210B	Fixed 12V, 5A LDO Voltage Regulator	TO-220	7.75	5.20	4.45
LT1084IT-ND	9210B	Adjustable 5A LDO Voltage Regulator, Ind. Temp.	TO-220	10.00	6.65	5.70
LT1085CM-ND	9210B	Adjustable 3A LDO Voltage Regulator	3-DD	7.13	4.75	4.00

(Continued)

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Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LT1085CM-3.3-ND	9210B	Fixed 3.3V, 3A LDO Voltage Regulator	3-DD	7.13	4.75	4.00
LT1085CM-3.6-ND	9210B	Fixed 3.6V, 3A LDO Voltage Regulator	3-DD	7.13	4.75	4.00
LT1085CT-ND	9210B	Adjustable 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-3.3-ND	9210B	Fixed 3.3V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-3.6-ND	9210B	Fixed 3.6V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-5-ND	9210B	Fixed 5V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-12-ND	9210B	Fixed 12V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085IM-3.6-ND	—	Fixed 3.6V, 3A LDO Voltage Regulator	3-DD	10.25	6.81	5.13
LT1086CM-ND	9210B	Adjustable 1.5A LDO Voltage Regulator	3-DD	4.00	2.66	2.30
LT1086CM-3.3-ND	9210B	Fixed 3.3V, 1.5A LDO Voltage Regulator	3-DD	4.00	2.66	2.30
LT1086CT-ND	9210B	Adjustable 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-2.85-ND	9210B	Fixed 2.85V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-3.3-ND	9210B	Fixed 3.3V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-3.6-ND	9210B	Fixed 3.6V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-5-ND	9210B	Fixed 5V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-12-ND	9210B	Fixed 12V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086IM-ND	9210B	Adjustable 1.5A LDO Voltage Regulator	3-DD	4.63	3.08	2.55
LT1097CN8-ND	9176B	Low Cost, Low Power Precision Op Amp	8-Dip	3.13	2.08	1.80
LT1097S8-ND	9176B	Low Cost, Low Power Precision Op Amp	8-SOIC	3.38	2.25	1.95
LT1101ACN8-ND	9176B	Precision Micropower Single Instrumentation Amp	8-Dip	12.25	8.17	6.95
LT1101AIN8-ND	9176B	Prec. Micropower Single Instrum. Amp, Ind. Temp.	8-Dip	15.25	10.17	8.70
LT1101CN8-ND	9176B	Precision Micropower Single Instrumentation Amp	8-Dip	8.75	5.83	4.95
LT1101IN8-ND	9176B	Prec. Micropower Single Instrum. Amp, Ind. Temp.	8-Dip	10.88	7.25	6.25
LT1101SW-ND	9176B	Precision Micropower Single Instrumentation Amp	16-SOIC	10.50	7.00	5.95
LT1102ACN8-ND	9176B	Prec. Micropower Instrumentation Amp, JFET Input	8-Dip	12.25	8.17	6.95
LT1102CN8-ND	9176B	Prec. Micropower Instrumentation Amp, JFET Input	8-Dip	8.75	5.83	4.95
LT1105CN-ND	9210B	Offline Switching Regulator	14-Dip	7.63	5.08	4.05
LT1105CN8-ND	9210B	Offline Switching Regulator	8-Dip	7.13	4.75	3.75
LT1107CS8-ND	—	Adjustable Output DC/DC Converter	8-SOIC	4.38	2.91	2.40
LT1107CS8-5-ND	—	Fixed 5V Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1107IS8-ND	—	Adjustable Output DC/DC Converter, Ind. Temp.	8-SOIC	5.38	3.60	3.10
LT1108CS8-ND	—	Micropower Adjustable Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1108CS8-5-ND	9210B	Micropower Fixed 5V Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1109ACN8-12-ND	9210B	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.38	2.92	2.45
LT1109ACS8-12-ND	9210B	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
LT1109CS8-ND	9210B	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
LT1109CS8-12-ND	9210B	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
LT1110CN8-12-ND	9176B	Fixed 12V Output Micropower DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1110CS8-ND	9176B	Adjustable Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1110CS8-5-ND	9176B	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1111CN8-ND	9210B	Adjustable Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1111CN8-5-ND	9210B	Fixed 5V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1111CN8-12-ND	9210B	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1111CS8-ND	9210B	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1111CS8-5-ND	9210B	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1111CS8-12-ND	9210B	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1111IS8-ND	9210B	Adjustable Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1112ACN8-ND	9210B	Dual Low Power Precision Op Amp	8-Dip	6.25	4.17	3.50
LT1112CN8-ND	9210B	Dual Low Power Precision Op Amp	8-Dip	4.38	2.92	2.45
LT1112S8-ND	9210B	Dual Low Power Precision Op Amp	8-SOIC	4.88	3.25	2.65
LT1113CN8-ND	9210B	Dual Low Noise JFET Input Precision Op Amp	8-Dip	6.00	4.00	3.25
LT1113CS8-ND	9210B	Dual Low Noise JFET Input Precision Op Amp	8-SOIC	6.50	4.33	3.55
LT1114ACN-ND	9210B	Quad Low Power Precision Op Amp	14-Dip	12.13	8.08	6.50
LT1114CN-ND	9210B	Quad Low Power Precision Op Amp	14-Dip	8.50	5.67	4.50
LT1114S-ND	9210B	Quad Low Power Precision Op Amp	16-SOIC	8.88	5.92	4.75
LT1115CN8-ND	9176B	Ultra Low Noise Audio Op Amp	8-Dip	5.63	3.74	2.95
LT1116CN8-ND	9176B	Single Supply 12nS Ground-Sensing Comparator	8-Dip	6.00	4.00	3.50
LT1116CS8-ND	9176B	Single Supply 12nS Ground-Sensing Comparator	8-SOIC	6.63	4.42	3.75
LT1117CM-5-ND	9210B	Fixed 5V, 800mA LDO Regulator	3-DD	3.88	2.58	2.20
LT1117CST-ND	9210B	Adjustable, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
LT1117CST-2.85-ND	9210B	Fixed 2.85V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
LT1117CST-3.3-ND	9210B	Fixed 3.3V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
LT1117CST-5-ND	9210B	Fixed 5V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
LT1118CS8-ND	—	Adjustable, 800mA LDO Regulator with 400mA Isink	8-SOIC	5.00	3.45	2.95
LT1118CS8-2.5-ND	—	Fixed 2.5V, 800mA LDO Regulator with 400mA Isink	8-SOIC	5.00	3.45	2.95
LT1118CS8-2.85-ND	9257B	Fixed 2.85V, 800mA LDO Regulator with 400mA Isink	8-SOIC	4.63	3.20	2.75
LT1118CST-2.5-ND	9257B	Fixed 2.5V, 800mA LDO Regulator w/400mA Isink	SOT-223	4.75	3.16	2.65
LT1118CST-2.85-ND	9257B	Fixed 2.85V, 800mA LDO Regulator w/400mA Isink	SOT-223	4.38	2.91	2.40
LT1118CST-5-ND	9257B	Fixed 5V, 800mA LDO Regulator with 400mA Isink	SOT-223	4.75	3.16	2.65
LT1120ACN8-ND	9210B	Micropower Regulator with Comparator & Shutdown	8-Dip	4.75	3.17	2.60
LT1120ACS8-ND	9210B	Micropower Regulator with Comparator & Shutdown	8-SOIC	5.50	3.67	3.15
LT1120AIS8-ND	—	Micropower Regulator with Comparator & Shutdown	8-SOIC	7.13	4.75	4.05
LT1120CN8-ND	9210B	Micropower Regulator with Comparator & Shutdown	8-Dip	4.38	2.92	2.40
LT1120CS8-ND	9210B	Micropower Regulator with Comparator & Shutdown	8-SOIC	5.13	3.42	2.80
LT1120IN8-ND	—	Micropower Regulator with Comparator & Shutdown	8-Dip	5.50	3.67	3.15
LT1121ACS8-ND	9210B	Adjustable Micropower LDO Regulator with Shutdown	8-SOIC	3.75	2.50	2.00
LT1121ACS8-5-ND	9210B	5V Micropower LDO Regulator with Shutdown	8-SOIC	3.75	2.50	2.00
LT1121AHVCS8-ND	—	Adj. Micropower LDO Regulator with Shutdown	8-SOIC	4.50	2.99	2.40
LT1121AHVIS8-ND	—	Adj. Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.81
LT1121AIS8-ND	9210B	Adj. Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	4.38	2.92	2.35
LT1121AIS8-5-ND	9210B	5V Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	4.38	2.92	2.35
LT1121CN8-ND	9210B	Adjustable Micropower LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
LT1121CN8-3.3-ND	9210B	3.3V, 150mA LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
LT1121CN8-5-ND	9210B	5V, 150mA LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
LT1121CS8-ND	9210B	Adjustable LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
LT1121CS8-3.3-ND	9210B	3.3V LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
LT1121CS8-5-ND	9210B	5V LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
LT1121CST-3.3-ND	9210B	3.3V LDO Regulator with Shutdown	SOT-223	3.25	2.17	1.75
LT1121CST-5-ND	9210B	5V LDO Regulator with Shutdown	SOT-223	3.25	2.17	1.75
LT1121CZ-3.3-ND	9210B	3.3V, 150mA LDO Regulator with Shutdown	TO-92	2.38	1.58	1.35
LT1121CZ-5-ND	9210B	5V, 150mA LDO Regulator with Shutdown	TO-92	2.38	1.58	1.35
LT1121IS8-ND	9210B	Adjustable LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
LT1121IS8-3.3-ND	9210B	3.3V LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
LT1121IS8-5-ND	9210B	5V LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
LT1121IST-3.3-ND	9210B	3.3V LDO Regulator with Shutdown	SOT-223	3.88	2.58	2.10
LT1121IST-5-ND	9210B	5V LDO Regulator with Shutdown	SOT-223	3.88	2.58	2.10
LT1121IZ-5-ND	9210B	5V LDO Regulator with Shutdown	TO-92	2.88	1.92	1.60
LT1122CCN8-ND	9210B	Fast Settling JFET Input Op Amp	8-Dip	5.25	3.50	2.95
LT1122CS8-ND	9210B	Fast Settling JFET Input Op Amp	8-SOIC	5.75	3.83	3.25
LT1122DCN8-ND	9210B	Fast Settling JFET Input Op Amp	8-Dip	4.50	3.00	2.50
LT1122DS8-ND	9210B	Fast Settling JFET Input Op Amp	8-SOIC	4.88	3.25	2.70
LT1124CN8-ND	9176B	Dual, Low Noise, High Speed Precision Op Amp	8-Dip	6.38	4.25	3.65
LT1124CS8-ND	9176B	Dual, Low Noise, High Speed Precision Op Amp	8-SOIC	6.75	4.50	3.85
LT1125ACN-ND	9176B	Quad, Low Noise, High Speed Precision Op Amp	14-Dip	13.25	8.83	7.50
LT1125CN-ND	9176B	Quad, Low Noise, High Speed Precision Op Amp	14-Dip	10.50	7.00	5.95
LT1125CSW-ND	9176B	Quad, Low Noise, High Speed Precision Op Amp	16-SOIC	11.50	7.67	6.50
LT1126CN8-ND	9176B	Dual, Decompensated, Low Noise, HS Op Amp	8-Dip	6.38	4.25	3.65
LT1126CS8-ND	9176B	Dual, Decompensated, Low Noise, HS Op Amp	8-SOIC	6.75	4.50	3.85
LT1127CN-ND	9176B	Quad, Decomp., Low Noise, High Speed Op Amp	14-Dip	10.50	7.00	5.95
LT1127CSW-ND	9176B	Quad, Decomp., Low Noise, High Speed Op Amp	16-SOIC	11.50	7.67	6.50
LT1128ACN8-ND	9210B	Single, Low Noise, High Speed Op Amp	8-Dip	13.13	8.75	7.55
LT1128CN8-ND	9210B	Single, Low Noise, High Speed Op Amp	8-Dip	8.63	5.75	4.95
LT1128CS8-ND	9210B	Single, Low Noise, High Speed Op Amp	8-SOIC	8.63	5.75	4.95
LT1129CQ-ND	9210B	Adjustable, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
LT1129CQ-3.3-ND	9210B	3.3V, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
LT1129CQ-5-ND	9210B	5V, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
LT1129CS8-ND	9210B	Adjustable, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
LT1129CS8-3.3-ND	9210B	3.3V, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
LT1129CS8-5-ND	9210B	5V, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
LT1129CST-3.3-ND	9210B	3.3V, 700mA LDO Regulator with Shutdown	SOT-223	4.25	2.83	2.35
LT1129CST-5-ND	9210B	5V, 700mA LDO Regulator with Shutdown	SOT-223	4.25	2.83	2.35
LT1129CT-ND	9210B	Adjustable, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
LT1129CT-3.3-ND	9210B	3.3V, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
LT1129CT-5-ND	9210B	5V, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
LT1129IQ-ND	9210B	Adjustable, 700mA LDO Regulator with Shutdown	5-DD	5.50	3.67	3.05
LT1129IQ-5-ND	9210B	5V, 700mA LDO Regulator with Shutdown	5-DD	5.50	3.67	3.05
LT1129IS8-ND	9210B	Adjustable, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
LT1129IS8-3.3-ND	9210B	3.3V, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
LT1129IS8-5-ND	9210B	5V, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
LT1129IST-3.3-ND	9210B	3.3V, 700mA LDO Regulator with Shutdown	SOT-223	4.75	3.17	2.70
LT1129IST-5-ND	9210B	5V, 700mA LDO Regulator with Shutdown	SOT-223	4.75	3.17	2.70
LT1130ACSW-ND	9210B	5V, RS232, 5 Drivers/5 Receivers	28-SOIC	7.63	5.10	4.25
LT1131ACNW-ND	—	5V, RS232, 5 Drivers/4 Receivers	28-Dip	7.25	4.83	4.00
LT1131ACSW-ND	9210B	5V, RS232, 5 Drivers/4 Receivers	28-SOIC	7.63	5.08	4.25
LT1131CNW-ND	—	5V, RS232, 5 Drivers/4 Receivers	24-Dip	8.13	6.00	4.60
LT1132ACN-ND	9210B	5V, RS232, 5 Drivers/3 Receivers	24-Dip	7.25	4.83	4.00
LT1132ACSW-ND	9210B	5V, RS232, 5 Drivers/3 Receivers	24-SOIC	7.63	5.08	4.25
LT1132AISW-ND	—	5V, RS232, 5 Drivers/3 Receivers	24-SOIC	9.13	6.06	5.20
LT1133ACN-ND	9210B	5V, RS232, 3 Drivers/5 Receivers	24-Dip	7.25	4.83	4.00
LT1133ACSW-ND	9210B	5V, RS232, 3 Drivers/5 Receivers	24-SOIC	7.63	5.08	4.25
LT1133AISW-ND	—	5V, RS232, 3 Drivers/5 Receivers	24-SOIC	9.13	6.06	5.20
LT1134ACN-ND	9210B	5V, RS232, 4 Drivers/4 Receivers	24-Dip	7.00	4.67	3.75
LT1134ACSW-ND	9210B	5V, RS232, 4 Drivers/4 Receivers	24-SOIC	7.00	4.67	3.75
LT1134AIN-ND	9210B	5V, RS232, 4 Drivers/4 Receivers	24-Dip	9.00	6.00	5.00
LT1134AISW-ND	—	5V, RS232, 4 Drivers/4 Receivers	24-SOIC	9.00	6.00	5.00
LT1135ACN-ND	9210B	5V, RS232, 5 Drivers/3 Receivers	20-Dip	5.88	3.92	3.25
LT1135ACSW-ND	9210B	5V, RS232, 5 Drivers/3 Receivers	20-SOIC	6.25	4.17	3.45
LT1136ACNW-ND	9210B	5V, RS232, 4 Drivers/5 Receivers	28-Dip	7.25	4.83	4.00
LT1136ACSW-ND	9210B	5V, RS232, 4 Drivers/5 Receivers	28-SOIC	7.63	5.08	4.25
LT1137ACG-ND	9210B	5V, RS232, 3 Drivers/5 Receivers	28-SSOP	7.75	5.17	4.15
LT1137ACNW-ND	9210B	5V, RS232, 3 Drivers/5 Receivers	28-Dip	7.00	4.65	3.75
LT1137ACSW-ND	9210B	5V, RS232, 3 Drivers/5 Receivers	28-SOIC	7.00	4.67	3.75
LT1137AIG-ND	—	5V, RS232, 3 Drivers/5 Receivers	28-SSOP	8.88	5.90	4.85
LT1137AINW-ND	—	5V, RS232, 3 Drivers/5 Receivers	28-Dip	8.38	5.58	4.50
LT1137AISW-ND	—	5V, RS232, 3 Drivers/5 Receivers	28-SOIC	8.38	5.58	4.50
LT1138ACNW-ND	9210B	5V, RS232, 5 Drivers/3 Receivers	28-Dip	7.25	4.83	4.00
LT1139ACSW-ND	9210B	5V or 12V, RS232, 4 Drivers/4 Receivers	24-SOIC	7.63	5.08	4.25
LT1140ACN-ND	9210B	5V, RS232, 5 Drivers/3 Receivers	24-Dip	5.88	3.92	3.25
LT1141ACN-ND	9210B	5V, RS232, 3 Drivers/5 Receivers	24-Dip	5.88	3.92	3.25
LT1141ACSW-ND	9210B	5V, RS232, 3 Drivers/5 Receivers	24-SOIC	6.25	4.17	3.45
LT1158CN-ND	9176B	Half Bridge N-Channel Power MOSFET Driver	16-Dip	5.88	3.92	3.50
LT1158CSW-ND	9176B	Half Bridge N-Channel Power MOSFET Driver	16-SOIC	6.25	4.17	3.75
LT1158ISW-ND	—	Half Bridge N-Channel Power MOSFET Driver	16-SOIC	7.25	4.83	4.30
LT1160CN-ND	9285B	Half Bridge N-Channel Power MOSFET Driver	14-Dip	5.25	3.50	3.00
LT1160CS-ND	9285B	Half Bridge N-Channel Power MOSFET Driver	14-SOIC	5.63	3.75	3.20
LT1161CN-ND	9210B	Quad High Side N-Channel MOSFET Driver	20-Dip	6.00	4.00	3.30
LT1161CSW-ND	9210B	Quad High Side N-Channel MOSFET Driver	20-SOIC	6.50	4.32	3.60
LT1161IN-ND	9210B	Quad High Side N-Channel MOSFET Driver	20-Dip	6.75	4.50	3.70
LT1161ISW-ND	—	Quad High Side N-Channel MOSFET Driver	20-SOIC	7.25	4.82	4.05
LT1167ACN8-ND	—	Programmable Precision Instrumentation Amp	8-Dip	11.13	7.39	5.75
LT1167ACS8-ND	—	Programmable Precision Instrumentation Amp	8-SOIC	11.13	7.39	5.75
LT1167AIS8-ND	—	Programmable Precision Instrumentation Amp	8-SOIC	12.75	8.47	6.65
LT1167CN8-ND	—	Programmable Precision Instrumentation Amp	8-Dip	6.38	4.24	3.30
LT1167CS8-ND	—	Programmable Precision Instrumentation Amp	8-SOIC	6.38	4.24	3.30
LT1167IS8-ND	—	Programmable Precision Instrumentation Amp	8-SOIC	7.38	4.90	3.85
LT1169CN8-ND	9210B	Dual Low Noise JFET Op Amp	8-Dip	7.25	4.83	3.95
LT1169CS8-ND	—	Dual Low Noise JFET Op Amp	8-SOIC	7.75	5.15	4.25
LT1170CQ-ND	9210B	5A, 100kHz High Efficiency Switching Regulator	5-DD	11.38	7.58	6.05
LT1170CT-ND	9210B	5A, 100kHz High Efficiency Switching Regulator	TO-220-5	10.63	7.08	5.65
LT1170HVCQ-ND	—	5A, 100kHz, High Voltage, High Efficiency, Switching Regulator	5-DD	14.38	9.55	8.25
LT1170HVCQTR-ND	—	5A, 100kHz, High Voltage, High Efficiency, Switching Regulator	5-DD	5715.00/750		
LT1170HVCT-ND	9210B	5A, 100kHz, High Voltage, High Efficiency, Switching Regulator	TO-220-5	13.75	9.17	7.35
LT1170IQ-ND	—	5A, 100kHz High Efficiency Switching Regulator	5-DD	14.25	9.50	8.50
LT1171CQ-ND	9210B	3A, 100kHz High Efficiency Switching Regulator	5-DD	9.38	6.25	5.20
LT1171CT-ND	9210B	3A, 100kHz High Efficiency Switching Regulator	TO-220-5	8.63	5.75	4.75
LT1171HVCQ-ND	—	2.5A, 100kHz, High Voltage, High Efficiency Switching Regulator	5-DD	11.75	7.81	6.70
LT1171HVCT-ND	9210B	2.5A, 100kHz, High Voltage, High Efficiency Switching Regulator	TO-220-5	11.25	7.50	6.20
LT1171IQ-ND	—	2.5A, 100kHz High Efficiency Switching Regulator	5-DD	10.25	6.81	5.45
LT1172CN8-ND	9210B	1.25A, 100kHz High Efficiency Switching Regulator	8-Dip	4.38	2.92	2.45
LT1172CQ-ND	9210B	1.25A, 100kHz High Efficiency Switching Regulator	5-DD	6.38	4.25	3.55
LT1172CS8-ND	9210B	1.25A, 100kHz High Efficiency Switching Regulator	8-SOIC	5.38	3.58	3.00
LT1172CT-ND	9210B	1.25A, 100kHz High Efficiency Switching Regulator	TO-220-5	5.63	3.75	2.95
LT1172HVCT-ND	9210B	1.25A, 100kHz, High Voltage, High Efficiency Switching Regulator	TO-220-5	7.38	4.92	3.85
LT1172IN8-ND	9210B	1.25A, 100kHz High Efficiency Switching Regulator	8-Dip	6.13	4.08	3.45
LT1172IS8-ND	9210B	1.25A, 100kHz High Efficiency Switching Regulator	8-SOIC	7.00	4.67	3.90
LT1173CN8-ND	9176B	Adjustable Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40

(Continued)

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LINEAR SERIES *(Continued)*

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★		
				1	25	100
LT1173CN8-5-ND	9176B	Fixed 5V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CN8-12-ND	9176B	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CS8-ND	9176B	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1173CS8-5-ND	9176B	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1173CS8-12-ND	9176B	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1175CN8-ND	9257B	Adjustable, 500mA Negative LDO Regulator	8-Dip	4.63	3.10	2.55
LT1175CN8-5-ND	9257B	5V, 500mA Negative LDO Regulator	8-Dip	4.63	3.10	2.55
LT1175CQ-ND	9257B	Adjustable, 500mA Negative LDO Regulator	5-DD	5.88	3.91	3.25
LT1175CQ-5-ND	9257B	5V, 500mA Negative LDO Regulator	5-DD	5.88	3.91	3.25
LT1175CS8-ND	9257B	Adjustable, 500mA Negative LDO Regulator	8-SOIC	5.38	3.60	3.00
LT1175CS8-5-ND	9257B	5V, 500mA Negative LDO Regulator	8-SOIC	5.38	3.60	3.00
LT1175CST-5-ND	—	5V, 500mA Negative LDO Regulator	SOT-223	4.88	3.25	2.80
LT1175CT-ND	9257B	Adjustable, 500mA Negative LDO Regulator	TO-220-5	5.63	3.75	3.15
LT1175CT-5-ND	9257B	5V, 500mA Negative LDO Regulator	TO-220-5	5.63	3.75	3.15
LT1175IN8-ND	—	Adjustable, 500mA Negative LDO Regulator	8-Dip	6.00	4.00	3.35
LT1175IQ-ND	—	Adjustable, 500mA Negative LDO Regulator	5-DD	7.50	5.00	4.30
LT1175IQ-5-ND	—	5V, 500mA Negative LDO Regulator	5-DD	7.50	5.00	4.30
LT1175IST-5-ND	—	5V, 500mA Negative Low Dropout Regulator	SOT-223	5.38	3.60	3.10
LT1175IS8-ND	—	Adjustable, 500mA Negative LDO Regulator	8-SOIC	7.00	4.65	3.90
LT1175IS8-5-ND	—	5V, 500mA Negative LDO Regulator	8-SOIC	7.00	4.65	3.90
LT1176CN8-ND	9210B	Adjustable, 1A Step Down Switching Regulator	8-Dip	5.63	3.75	3.20
LT1176CN8-5-ND	9210B	5V, 1A Step Down Switching Regulator	8-Dip	5.63	3.75	3.20
LT1176CSW-ND	9210B	Adjustable, 1A Step Down Switching Regulator	20-SOIC	8.13	5.42	4.35
LT1176CSW-5-ND	9210B	5V, 1A Step Down Switching Regulator	20-SOIC	8.13	5.42	4.35
LT1178ACN8-ND	9176B	Dual Micropower Precision Dual Op Amp	8-Dip	10.00	6.67	5.60
LT1178CN8-ND	9176B	Dual Micropower Precision Dual Op Amp	8-Dip	5.50	3.67	3.00
LT1178IN8-ND	—	Dual Micropower Precision Dual Op Amp, Ind. Temp.	8-Dip	6.88	4.58	3.95
LT1178S8-ND	9210B	Dual Micropower Precision Dual Op Amp	8-SOIC	7.00	4.65	3.85
LT1179ACN-ND	9176B	Quad Micropower Precision Op Amp	14-Dip	12.38	8.25	6.90
LT1179CN-ND	9176B	Quad Micropower Precision Op Amp	14-Dip	6.88	4.58	3.90
LT1179IN-ND	9176B	Quad Micropower Precision Op Amp, Ind. Temp.	14-Dip	8.50	5.67	4.85
LT1179SW-ND	9176B	Quad Micropower Precision Op Amp	16-SOIC	8.75	5.83	5.00
LT1180ACN-ND	9210B	Low Power, 5V, RS232, Dual Driver/Receiver	18-Dip	4.63	3.08	2.45
LT1180ACSW-ND	9210B	Low Power, 5V, RS232, Dual Driver/Receiver	18-SOIC	5.13	3.42	2.70
LT1181ACN-ND	—	Low Power, 5V, RS232, Dual Driver/Receiver	16-Dip	4.63	3.08	2.45
LT1181ACSW-ND	9210B	Low Power, 5V, RS232, Dual Driver/Receiver	16-SOIC	5.13	3.42	2.70
LT1181ACSWTR-ND	—	Low Power, 5V, RS232, Dual Driver/Receiver	16-SOIC	2710.01/1,000		
LT1182CS-ND	9285B	CCFL/LCD Contrast Switching Regulator	16-SOIC	9.38	6.25	5.35
LT1183CS-ND	9285B	CCFL/LCD Contrast Switching Regulator	16-SOIC	9.38	6.25	5.35
LT1184CS-ND	9257B	CCFL/LCD Contrast Switching Regulator	16-SOIC	6.63	4.40	3.80
LT1184FCS-ND	9257B	CCFL/LCD Contrast Switching Regulator, Floating	16-SOIC	7.88	5.25	4.50
LT1185CT-ND	9176B	Adjustable, 3A, LDO Voltage Regulator	TO-220-5	6.50	4.33	3.70
LT1185IT-ND	—	Adjustable, 3A, LDO Voltage Regulator	TO-220-5	8.75	5.83	4.90
LT1186FCS-ND	—	DAC Programmable CCFL Switching Regulator	16-SOIC	9.75	6.50	5.60
LT1187CN8-ND	9210B	Adjustable Low Power Video Difference Amp	8-Dip	5.50	3.67	2.95
LT1187CS8-ND	9210B	Adjustable Low Power Video Difference Amp	8-SOIC	6.13	4.08	3.45
LT1188CT-ND	9176B	1.5A High Side Switch	TO-220-5	7.50	5.00	4.25
LT1191CN8-ND	9176B	Single, Ultra High Speed Video Op Amp	8-Dip	3.25	2.17	1.73
LT1191CS8-ND	9176B	Single, Ultra High Speed Video Op Amp	8-SOIC	3.75	2.50	1.95
LT1193CN8-ND	9176B	Adjustable Gain Video Difference Amp	8-Dip	5.50	3.67	2.95
LT1193CS8-ND	9176B	Adjustable Gain Video Difference Amp	8-SOIC	6.13	4.08	3.45
LT1195CN8-ND	9210B	Low Power, High Speed Op Amp	8-Dip	3.25	2.17	1.73
LT1203CN8-ND	9210B	2-Input, 150MHz Video Multiplexer	8-Dip	3.13	2.08	1.57
LT1203CS8-ND	9210B	2-Input, 150MHz Video Multiplexer	8-SOIC	3.38	2.25	1.69
LT1204CN-ND	9210B	4-In Video Multiplexer with 75MHz Current Feedback	16-Dip	9.00	6.00	4.95
LT1204CSW-ND	9210B	4-In Video Multiplexer with 75MHz Current Feedback	16-SOIC	9.75	6.50	5.40
LT1205CS-ND	9210B	4-Input, 150MHz, Dual Video Multiplexer	16-SOIC	5.38	3.57	2.70
LT1206CN8-ND	9210B	250mA Out, 60MHz Current Feedback Amp	8-Dip	6.25	4.17	3.45
LT1206CR-ND	9210B	250mA Out, 60MHz Current Feedback Amp	7-DD	8.13	5.42	4.45
LT1206CS8-ND	9210B	250mA Out, 60MHz Current Feedback Amp	8-SOIC	7.25	4.83	3.95
LT1206CT7-ND	—	250mA Out, 60MHz Current Feedback Amp	TO-220-7	8.13	5.42	4.45
LT1207CS-ND	—	Dual, 250mA Out, 60MHz Current Feedback Amp.	16-SOIC	12.88	8.60	7.15
LT1208CN8-ND	9210B	Dual, High Speed Op Amp	8-Dip	7.75	5.17	4.45
LT1208CS8-ND	9210B	Dual, High Speed Op Amp	8-SOIC	8.75	5.83	5.00
LT1209CN-ND	9210B	Quad, High Speed Op Amp	14-Dip	12.13	8.08	6.90
LT1209CS-ND	9210B	Quad, High Speed Op Amp	16-SOIC	13.00	8.67	7.45
LT1211CN8-ND	9210B	14MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1211CS8-ND	9210B	14MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1211IS8-ND	—	14MHz, Single, Dual Precision Op Amp, Ind. Temp.	8-SOIC	7.50	4.98	3.75
LT1212CN-ND	9210B	14MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1212CS-ND	9210B	14MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1212IS-ND	—	14MHz, Single, Quad Precision Op Amp, Ind. Temp.	16-SOIC	13.25	8.80	6.63
LT1213CN8-ND	9210B	28MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1213CS8-ND	9210B	28MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1214CN-ND	9210B	28MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1214CS-ND	9210B	28MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1215CN8-ND	9210B	23MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1215CS8-ND	9210B	23MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1216CN-ND	9210B	23MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1216CS-ND	9210B	23MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1218CN8-ND	—	Precision Rail-to-Rail In/Out Op Amp	8-Dip	9.63	6.40	4.95
LT1218CS8-ND	—	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	10.00	6.64	5.15
LT1218LCN8-ND	—	Precision Rail-to-Rail In/Out Op Amp	8-Dip	5.88	3.91	3.15
LT1218LCS8-ND	—	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	6.13	4.07	3.30
LT1219CS8-ND	—	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	10.00	6.64	5.15
LT1220CN8-ND	9176B	45MHz, High Speed Op Amp	8-Dip	6.25	4.17	3.50
LT1220CS8-ND	9176B	45MHz, High Speed Op Amp	8-SOIC	6.88	4.58	3.75
LT1221CN8-ND	9176B	150MHz, High Speed Op Amp	8-Dip	6.25	4.17	3.35
LT1221CS8-ND	9176B	150MHz, High Speed Op Amp	8-SOIC	6.88	4.57	3.50
LT1222CN8-ND	—	500MHz, High Speed Op Amp	8-Dip	6.25	4.17	3.50
LT1222CS8-ND	—	500MHz, High Speed Op Amp	8-SOIC	6.88	4.58	3.75
LT1223CN8-ND	9176B	100MHz, Current Feedback Op Amp	8-Dip	5.38	3.58	2.85
LT1223CS8-ND	9176B	100MHz, Current Feedback Op Amp	8-SOIC	6.13	4.08	3.40
LT1224CN8-ND	9176B	45MHz, High Speed Op Amp	8-Dip	5.38	3.58	2.85
LT1224CS8-ND	9176B	45MHz, High Speed Op Amp	8-SOIC	6.13	4.07	3.30
LT1226CN8-ND	9176B	High Speed, Low Noise Op Amp	8-Dip	5.38	3.58	2.85
LT1226CS8-ND	9176B	High Speed, Low Noise Op Amp	8-SOIC	6.13	4.08	3.40
LT1227CN8-ND	9210B	140MHz, Video Current Feedback Amp	8-Dip	4.63	3.08	2.45
LT1227CS8-ND	9210B	140MHz, Video Current Feedback Amp	8-SOIC	5.38	3.58	3.25
LT1228CN8-ND	9176B	100MHz, Current Feedback Amp with DC Gain	8-Dip	6.88	4.58	3.95
LT1228CS8-ND	9176B	100MHz, Current Feedback Amp with DC Gain	8-SOIC	7.75	5.17	4.30
LT1229CN8-ND	9176B	100MHz, Dual Current Feedback Op Amp	8-Dip	6.88	4.58	3.95
LT1229CS8-ND	9176B	100MHz, Dual Current Feedback Op Amp	8-SOIC	7.75	5.17	4.30
LT1230CS-ND	9176B	100MHz, Quad Current Feedback Op Amp	14-SOIC	13.75	9.13	7.50
LT1236ACN8-5-ND	9257B	5V Precision Reference, 5ppm/°C	8-Dip	7.75	5.15	4.00

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★		
				1	25	100
LT1236ACN8-10-ND	9257B	10V Precision Reference, 5ppm/°C	8-Dip	6.13	4.07	3.20
LT1236ACS8-5-ND	9257B	5V Precision Reference, 5ppm/°C	8-SOIC	7.75	5.15	4.00
LT1236ACS8-10-ND	9257B	10V Precision Reference, 5ppm/°C	8-SOIC	6.38	4.24	3.30
LT1236AIS8-5-ND	9275B	5V Precision Reference, 5ppm/°C	8-SOIC	10.25	6.81	5.32
LT1236BCN8-5-ND	9257B	5V Precision Reference, 10ppm/°C	8-Dip	4.50	2.99	2.30
LT1236BCN8-10-ND	9257B	10V Precision Reference, 10ppm/°C	8-Dip	4.88	3.24	2.55
LT1236BCS8-5-ND	9257B	5V Precision Reference, 10ppm/°C	8-SOIC	4.50	2.99	2.30
LT1236BCS8-10-ND	9275B	10V Precision Reference, 10ppm/°C	8-SOIC	4.88	3.24	2.55
LT1236BIS8-5-ND	9275B	5V Precision Reference 10ppm/°C	8-SOIC	5.13	3.41	2.65
LT1236CCN8-5-ND	9257B	5V Precision Reference, 15ppm/°C	8-Dip	4.00	2.66	2.05
LT1236CCN8-10-ND	9257B	10V Precision Reference, 15ppm/°C	8-Dip	4.50	2.99	2.35
LT1236CCS8-5-ND	9257B	5V Precision Reference, 15ppm/°C	8-SOIC	4.00	2.66	2.05
LT1237CG-ND	—	5V, RS232 Transceiver with Advanced Power Mgmt. and 1 Receiver Active in Shutdown	28-SSOP	8.13	5.42	4.25
LT1237CNW-ND	9210B	5V, RS232 Transceiver with Advanced Power Mgmt. and 1 Receiver Active in Shutdown	28-Dip	7.38	4.92	3.95
LT1237CSW-ND	9210B	5V, RS232 Transceiver with Advanced Power Mgmt. and 1 Receiver Active in Shutdown	28-SOIC	7.38	4.92	3.95
LT1241CN8-ND	9176B	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1241CS8-ND	9176B	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1242CN8-ND	9176B	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1242CS8-ND	9176B	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1243CN8-ND	9176B	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1243CS8-ND	9176B	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1243IN8-ND	—	High Speed Current Mode PWM, Ind. Temp.	8-Dip	3.88	2.58	2.30
LT1244CN8-ND	9176B	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1244CS8-ND	9176B	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1245CN8-ND	9176B	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1245CS8-ND	9176B	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1245IN8-ND	—	High Speed Current Mode PWM, Ind. Temp.	8-Dip	3.88	2.58	2.30
LT1246CN8-ND	9257B	1MHz Current Mode PWM	8-Dip	4.00	2.67	2.25
LT1248CN-ND	9210B	Power Factor Correction Controller	16-Dip	6.88	4.58	3.65
LT1248CS-ND	9210B	Power Factor Correction Controller	16-SOIC	7.38	4.92	3.90
LT1248IS-ND	9210B	Power Factor Correction Controller, Ind. Temp.	16-SOIC	8.63	5.75	4.65
LT1249CN8-ND	9210B	Power Factor Correction Controller	8-Dip	6.25	4.17	3.30
LT1249CS8-ND	9210B	Power Factor Correction Controller	8-SOIC	6.75	4.50	3.55
LT1249IN8-ND	9210B	Power Factor Correction Controller	8-Dip	7.13	4.75	3.75
LT1249IS8-ND	9210B	Power Factor Correction Controller, Ind. Temp.	8-SOIC	7.75	5.17	4.15
LT1251CN-ND	9210B	40MHz Video Fader and DC Gain Controlled Amp	14-Dip	11.00	7.33	6.00
LT1252CN8-ND	9210B	Low Cost Single Video Amplifier	8-Dip	3.25	2.17	1.75
LT1252CS8-ND	9210B	Low Cost Single Video Amplifier	8-SOIC	3.50	2.33	1.85
LT1253CN8-ND	9210B	Low Cost Dual Video Amplifier	8-Dip	4.50	3.00	2.49
LT1253CS8-ND	9210B	Low Cost Dual Video Amplifier	8-SOIC	4.88	3.25	2.60
LT1254CN-ND	9210B	Low Cost Quad Video Amplifier	14-Dip	8.13	5.42	4.49
LT1254CS-ND	9210B	Low Cost Quad Video Amplifier	14-SOIC	8.63	5.75	4.80
LT1256CN-ND	9210B	40MHz Video Fader and DC Gain Controlled Amp	14-Dip	11.00	7.33	6.00
LT1256CS-ND	9210B	40MHz Video Fader and DC Gain Controlled Amp	14-SOIC	11.63	7.75	6.30
LT1259CN-ND	9210B	Dual Current Feedback Amp with Shutdown	14-Dip	4.63	3.08	2.55
LT1259CS-ND	9210B	Dual Current Feedback Amp with Shutdown	14-SOIC	4.75	3.16	2.65
LT1260CN-ND	9210B	Triple Current Feedback Amp with Shutdown	16-Dip	4.88	3.24	2.70
LT1260CS-ND	9210B	Triple Current Feedback Amp with Shutdown	16-SOIC	5.13	3.41	2.85
LT1268BCQ-ND	9210B	7.5A, 150kHz Switching Regulator	5-DD	12.75	8.50	7.25
LT1268CT-ND	9210B	7.5A, 150kHz Switching Regulator	TO-220-5	11.38	7.58	6.50
LT1269CT-ND	9210B	4A, High Efficiency, Power Switching Regulator	TO-220-5	8.88	5.92	4.90
LT1270ACT-ND	9210B	10A, High Efficiency, Power Switching Regulator	TO-220-5	15.75	10.50	8.90
LT1270CT-ND	9210B	8A, High Efficiency, Power Switching Regulator	TO-220-5	10.63	7.08	5.65
LT1271CQ-ND	9210B	4A, High Efficiency, Power Switching Regulator	5-DD	9.38	6.25	5.20
LT1271CT-ND	9210B	4A, High Efficiency, Power Switching Regulator	TO-220-5	8.63	5.75	4.75
LT1280ACN-ND	9210B	Low Power 5V, RS232 Dual Driver/Receiver	18-Dip	5.00	3.33	2.65
LT1280ACSW-ND	9210B	Low Power 5V, RS232 Dual Driver/Receiver	18-SOIC	5.50	3.67	2.90
LT1281ACN-ND	9210B	Low Power 5V, RS232 Dual Driver/Receiver	16-Dip	5.00	3.33	2.65
LT1281ACSW-ND	9210B	Low Power 5V, RS232 Dual Driver/Receiver	16-SOIC	5.50	3.67	2.90
LT1300CN8-ND	9210B	3.3V/5V, High Efficiency, Step-Up DC/DC Converter	8-Dip	5.00	3.33	2.60
LT1300CS8-ND	9210B	3.3V/5V, High Efficiency, Step-Up DC/DC Converter	8-SOIC	5.00	3.33	2.60
LT1301CN8-ND	9210B	5V/12V, High Efficiency, Step-Up DC/DC Converter	8-Dip	4.75	3.17	2.50
LT1301CS8-ND	9210B	5V/12V, High Efficiency, Step-Up DC/DC Converter	8-SOIC	4.75	3.17	2.50
LT1302CN8-5-ND	9257B	5V, High Efficiency, Step-Up DC/DC Converter	8-Dip	6.13	4.08	3.35
LT1302CS8-ND	9257B	Adjustable, High Efficiency, Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.50
LT1302CS8-5-ND	9257B	5V, High Efficiency, Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.50
LT1303CN8-ND	9257B	Adjustable, Step-Up DC/DC Converter	8-Dip	4.75	3.16	2.50
LT1303CN8-5-ND	9257B	5V, Step-Up DC/DC Converter	8-Dip	4.75	3.16	2.50
LT1303CS8-ND	9257B	Adjustable, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1303CS8-5-ND	9257B	5V, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1303IS8-ND	—	Adjustable, Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.40
LT1304CS8-ND	9285B	Adjustable, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1304CS8-5-ND	9285B	5V, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1305CS8-ND	9257B	Micropower High Power Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.65
LT1307BCS8-ND	9285B	Single Micropower 600kHz PWM DC/DC Converter	8-SOIC	4.13	2.75	2.20
LT1307CS8-ND	9285B	Single Micropower 600kHz PWM DC/DC Converter	8-SOIC	4.13	2.75	2.20
LT1308ACS8-ND	—	Single High Current, Micropower 600kHz DC/DC Converter	8-SOIC	6.50	4.32	3.50
LT1308BCS8-ND	—	Single High Current, Micropower 600kHz DC/DC Converter	8-SOIC	6.50	4.32	3.50
LT1308CS8-ND	—	High Current, Low Power Single Cell 600KHz DC/DC Converter	8-SOIC	6.88	4.57	3.65
LT1310EMSE-ND	—	1.5A Boost DC-DC Converter with PLL	10-MSOP	5.70	3.79	2.91
LT1312CS8-ND	9257B	Single PCMCIA VPP Driver/Regulator	8-SOIC	3.75	2.50	2.15
LT1316CMS8-ND	—	Micropower Step-Up DC/DC Converter	8-MSOP	5.38	3.57	2.95
LT1316CS8-ND	—	Micropower Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1316IS8-ND	—	Micropower Step-Up DC/DC Converter	8-SOIC	5.50	3.66	2.90
LT1317BCMS8-ND	—	Micropower, 600kHz PWM DC/DC Converter	8-MSOP	4.88	3.24	2.55
LT1317BCS8-ND	—	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	4.38	2.91	2.30
LT1317BIS8-ND	—	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	5.63	3.74	3.00
LT1317CMS8-ND	—	Micropower, 600kHz PWM DC/DC Converter	8-MSOP	4.88	3.24	2.55
LT1317CS8-ND	—	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	4.38	2.91	2.30
LT1319CS-ND	9257B	Infrared Receiver Building Block	16-SOIC	7.25	4.83	3.95
LT1328CMS8-ND	—	4Mbps IrDA Infrared Receiver	8-MSOP	5.88	3.91	2.94
LT1330CNW-ND	9210B	5V, RS232 Transceiver with 3V Logic Interface	28-Dip	7.38	4.92	3.95
LT1330CSW-ND	9210B	5V, RS232 Transceiver with 3V Logic Interface	28-SOIC	7.38	4.92	3.95
LT1331CG-ND	9210B	5V/3V, RS232 Transceiver with 1 Receiver Active in Shutdown	28-SSOP	8.13	5.42	4.25

(Continued)

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Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LT1331CNW-ND	9210B	5V/3V, RS232 Xcvr. w/1 Receiver Active in Shutdown	28-Dip	7.38	4.92	3.95
LT1331CSW-ND	9210B	5V/3V, RS232 Xcvr. w/1 Receiver Active in Shutdown	28-SOIC	7.38	4.92	3.95
LT1336CN-ND	—	Half-Bridge N-Channel MOSFET Driver w/Boost Reg.	16-Dip	5.63	3.75	3.20
LT1336CS-ND	—	Half-Bridge N-Channel MOSFET Driver w/Boost Reg.	16-SOIC	6.00	4.00	3.40
LT1339CN-ND	9294B	High Power Synchronous DC/DC Controller	20-Dip	9.13	6.10	5.20
LT1339CSW-ND	9294B	High Power Synchronous DC/DC Controller	20-SOIC	9.38	6.25	5.35
LT1339IN-ND	9294B	High Power Synchronous DC/DC Controller	20-Dip	11.00	7.35	6.30
LT1339ISW-ND	9294B	High Power Synchronous DC/DC Controller	20-SOIC	11.25	7.50	6.45
LT1341CG-ND	9210B	5V, RS232, 3 Driver/5 Receiver with 1 Receiver Active in Shutdown	28-SSOP	8.13	5.42	4.25
LT1341CNW-ND	9210B	5V, RS232, 3 Driver/5 Receiver with 1 Receiver Active in Shutdown	28-Dip	7.38	4.92	3.95
LT1341CSW-ND	9210B	5V, RS232, 3 Driver/5 Receiver with 1 Receiver Active in Shutdown	28-SOIC	7.38	4.92	3.95
LT1342CG-ND	9210B	5V, RS232, 3 Driver/5 Receiver with 3V Logic	28-SSOP	7.75	5.17	4.20
LT1351CMS8-ND	9285B	Low Power, High Speed, 3MHz Op Amp	8-MSOP	5.13	3.41	2.80
LT1351CS8-ND	9285B	Low Power, High Speed, 3MHz Op Amp	8-SOIC	4.75	3.16	2.60
LT1352CS8-ND	—	Dual, Very Low Power, High Speed, 3MHz Op Amp	8-SOIC	7.63	5.10	4.25
LT1353CS-ND	—	Quad, Very Low Power, High Speed, 3MHz Op Amp	14-SOIC	12.63	8.40	6.95
LT1354CN8-ND	9210B	Low Power, High Speed, 12MHz Op Amp	8-Dip	4.25	2.83	2.35
LT1354CS8-ND	9210B	Low Power, High Speed, 12MHz Op Amp	8-SOIC	4.75	3.17	2.60
LT1355CN8-ND	9210B	Dual, Low Power, High Speed, 12MHz Op Amp	8-Dip	7.00	4.67	3.95
LT1355CS8-ND	9210B	Dual, Low Power, High Speed, 12MHz Op Amp	8-SOIC	7.63	5.10	4.25
LT1356CN-ND	9210B	Quad, Low Power, High Speed, 12MHz Op Amp	14-Dip	11.75	7.83	6.70
LT1356CS-ND	9210B	Quad, Low Power, High Speed, 12MHz Op Amp	16-SOIC	12.63	8.40	6.95
LT1357CN8-ND	9210B	Single, High Speed, 25MHz Op Amp	8-Dip	4.63	3.08	2.55
LT1357CS8-ND	9210B	Single, High Speed, 25MHz Op Amp	8-SOIC	5.13	3.42	2.80
LT1358CN8-ND	9210B	Dual, High Speed, 25MHz Op Amp	8-Dip	7.25	4.83	4.10
LT1358CS8-ND	9210B	Dual, High Speed, 25MHz Op Amp	8-SOIC	8.25	5.50	4.40
LT1359CN-ND	9210B	Quad, High Speed, 25MHz Op Amp	14-Dip	12.00	8.00	6.80
LT1359CS-ND	9210B	Quad, High Speed, 25MHz Op Amp	16-SOIC	12.88	8.55	7.05
LT1360CN8-ND	9210B	Single, High Speed, 50MHz Op Amp	8-Dip	4.13	2.75	2.25
LT1360CS8-ND	9210B	Single, High Speed, 50MHz Op Amp	8-SOIC	4.63	3.08	2.50
LT1361CN8-ND	9210B	Dual, High Speed, 50MHz Op Amp	8-Dip	6.38	4.25	3.50
LT1361CS8-ND	9210B	Dual, High Speed, 50MHz Op Amp	8-SOIC	6.75	4.50	3.65
LT1362CN-ND	9210B	Quad, High Speed, 50MHz Op Amp	14-Dip	11.25	7.50	6.15
LT1362CS-ND	9210B	Quad, High Speed, 50MHz Op Amp	16-SOIC	11.75	7.83	6.45
LT1363CN8-ND	9210B	Single, High Speed, 70MHz Op Amp	8-Dip	4.50	3.00	2.45
LT1363CS8-ND	9210B	Single, High Speed, 70MHz Op Amp	8-SOIC	5.00	3.33	2.70
LT1364CN8-ND	9210B	Dual, High Speed, 70MHz Op Amp	8-Dip	6.88	4.58	3.80
LT1364CS8-ND	9210B	Dual, High Speed, 70MHz Op Amp	8-SOIC	7.25	4.83	3.95
LT1365CN-ND	9210B	Quad, High Speed, 70MHz Op Amp	14-Dip	12.13	8.08	6.65
LT1365CS-ND	9210B	Quad, High Speed, 70MHz Op Amp	16-SOIC	12.63	8.42	6.95
LT1366CN8-ND	9257B	Dual Rail-to-Rail I/O Precision Op Amp	8-Dip	6.50	4.33	3.60
LT1366CS8-ND	9257B	Dual Rail-to-Rail I/O Precision Op Amp	8-SOIC	6.75	4.50	3.75
LT1367CS-ND	9257B	Quad Rail-to-Rail I/O Precision Op Amp	14-SOIC	11.50	7.65	6.35
LT1368CN8-ND	9257B	Dual Rail-to-Rail I/O Precision Op Amp	8-Dip	6.50	4.32	3.60
LT1368CS8-ND	9257B	Dual Rail-to-Rail I/O Precision Op Amp	8-SOIC	6.75	4.50	3.75
LT1369CS-ND	—	Quad Rail-to-Rail I/O Precision Op Amp	14-SOIC	11.50	7.65	6.35
LT1370CT7-ND	—	500kHz, High Efficiency, 6A Switching Regulator	TO-220-7	11.63	7.72	6.25
LT1370HVCR-ND	—	500kHz, High Efficiency, 6A Switching Regulator	7-DD	13.50	8.97	7.25
LT1370HVCT7-ND	—	500kHz, High Efficiency, 6A Switching Regulator	TO-220-7	13.25	8.80	7.10
LT1370HVIR-ND	—	500kHz, High Efficiency, 6A Switching Regulator	7-DD	16.13	10.71	8.65
LT1370IR-ND	—	500kHz, High Efficiency, 6A Switching Reg., Ind. Temp.	7-DD	14.25	9.47	7.65
LT1371CR-ND	—	500kHz, High Efficiency, 3A Switching Regulator	7-DD	9.63	6.40	5.50
LT1371CSW-ND	—	500kHz, High Efficiency, 3A Switching Regulator	20-SOIC	10.63	7.10	6.10
LT1371HVCR-ND	—	500kHz, High Efficiency, 3A Switching Regulator	7-DD	10.25	6.85	5.85
LT1371IR-ND	—	500kHz, High Efficiency, 3A Switching Reg., Ind. Temp.	7-DD	11.50	7.64	6.55
LT1372CN8-ND	9257B	500kHz, High Efficiency, 1.5A Switching Regulator	8-Dip	6.50	4.32	3.70
LT1372CS8-ND	9257B	500kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1372HVCS8-ND	—	500kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	7.38	4.90	4.20
LT1372IS8-ND	—	500kHz, High Effic., 1.5A Switching Reg., Ind. Temp.	8-SOIC	8.13	5.40	4.65
LT1373CN8-ND	9257B	250kHz, High Efficiency, 1.5A Switching Regulator	8-Dip	6.50	4.32	3.70
LT1373CS8-ND	9257B	250kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1373HVCS8-ND	—	250kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	7.38	4.90	4.20
LT1373IS8-ND	—	250kHz, High Effic., 1.5A Switching Reg., Ind. Temp.	8-SOIC	8.13	5.40	4.65
LT1374CFE-ND	—	Adj., 500kHz, 4.5A, Step Down Switch. Regulator	16-TSSOP	9.10	6.05	4.64
LT1374CR-ND	—	Adj., 500kHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1374CR-5-ND	—	5V, 500kHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1374CS8-ND	—	Adj., 500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CS8-5-ND	—	5V, 500KkHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CS8-SYNC-ND	—	Adj., 500kHz, 4.5A, Synchronous Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CS8-5SYNC-ND	—	5V, 500kHz, 4.5A, Synchronous Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CT7-ND	—	Adj., 500kHz, 4.5A, Step Down Switching Regulator	TO-220-7	9.75	6.48	4.90
LT1374CT7-5-ND	—	5V, 500kHz, 4.5A, Step Down Switching Regulator	TO-220-7	9.75	6.48	4.90
LT1374HVCS8-ND	—	Adj., 500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	10.38	6.89	5.20
LT1374IR-ND	—	Adj., 500kHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1374IR-5-ND	—	5V, 500kHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1374IS8-5SYNC-ND	—	5V, 500kHz, 4.5A, Synchronous Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1374IT7-5-ND	—	5V, 500kHz, 4.5A Step Down Switching Regulator	TO-220-7	11.25	7.47	5.65
LT1375CS8-ND	9257B	Adj., 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.50	4.32	3.40
LT1375CS8-5-ND	9257B	5V, 500kHz, 1.5A Step Down Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1375IS8-ND	9257B	Adj., 500kHz, 1.5A Step Down, Switching Regulator, Ind. Temp.	8-SOIC	7.75	5.15	4.10
LT1376CN8-ND	9257B	Adj., 500kHz, 1.5A Step Down Switching Regulator	8-Dip	6.50	4.35	3.70
LT1376CN8-5-ND	9257B	5V, 500kHz, 1.5A, Step Down Switching Regulator	8-Dip	6.50	4.35	3.70
LT1376CS-ND	9257B	Adj., 500kHz, 1.5A, Step Down Switching Regulator	16-SOIC	7.38	4.90	3.90
LT1376CS8-ND	9257B	Adj., 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.50	4.32	3.40
LT1376CS8-5-ND	9257B	5V, 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1376HVCS8-ND	—	Adj., 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	7.13	4.74	3.75
LT1376HVIS-ND	—	Adj., 500kHz, 1.5A, Step Down Switching Regulator	16-SOIC	9.50	6.31	5.00
LT1376IS-ND	9257B	Adj., 500kHz, 1.5A, Step Down Switching Regulator, Ind. Temp.	16-SOIC	8.63	5.73	4.55
LT1376IS8-ND	9257B	Adj., 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	7.75	5.15	4.10
LT1376IS8-5-ND	9257B	5V, 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	8.13	5.40	4.65
LT1377CS8-ND	—	1MHz, 1.5A, High Efficiency Switching Regulator	8-SOIC	7.88	5.25	4.50
LT1377IS8-ND	—	1MHz, 1.5A, High Efficiency Switching Regulator, Ind. Temp.	8-SOIC	9.50	6.35	5.40
LT1381CS-ND	9210B	5V, RS232, Dual Driver/Receiver	16-SOIC	3.50	2.33	2.00
LT1389ACS8-1.25-ND	—	1.25V Nanopower Precision Shunt Voltage Reference	8-SOIC	11.13	7.39	5.57
LT1389BCS8-1.25-ND	—	1.25V Nanopower Precision Shunt Voltage Reference	8-SOIC	6.50	4.32	3.25
LT1389BCS8-2.5-ND	—	2.5V Nanopower Precision Shunt Voltage Reference	8-SOIC	6.50	4.32	3.25
LT1389BCS8-4.096-ND	—	4.096V Nanopower Precision Shunt Voltage Reference	8-SOIC	6.50	4.32	3.25
LT1389BCS8-5-ND	—	5V Nanopower Precision Shunt Voltage Reference	8-SOIC	6.50	4.32	3.25
LT1394CS8-ND	—	7nS, Low Power Comparator	8-SOIC	5.13	3.41	2.65
LT1394IS8-ND	—	7nS, Low Power Comparator, Ind. Temp.	8-SOIC	5.75	3.82	2.90
LT1395CS5-ND	—	400MHz, Single Current Feedback Amp	SOT-23-5	2.75	1.83	1.40
LT1395CS6-ND	—	400MHz, Single Current Feedback Amp	SOT-23-6	2.75	1.83	1.40
LT1396CDD-ND	—	400MHz, Dual Current Feedback Amp *NEW!*	8-DFN	4.50	2.99	2.30
LT1398CS-ND	—	300MHz, Dual Current Feedback Amp	16-SOIC	4.63	3.08	2.32
LT1399CS-ND	—	300MHz, Triple Current Feedback Amp	16-SOIC	5.00	3.32	2.50
LT1399HVCS-ND	—	300MHz, Triple Current Feedback Amp	16-SOIC	6.25	4.15	3.25
LT1413CN8-ND	9210B	5V Single Supply, Dual Precision Op Amp	8-Dip	3.75	2.50	2.05
LT1413S8-ND	9210B	5V Single Supply, Dual Precision Op Amp.	8-SOIC	4.00	2.67	2.30
LT1424CN8-9-ND	—	Isolated Flyback Switch Regulator with 9V Output	8-Dip	5.88	3.91	3.10
LT1424CS8-9-ND	—	Isolated Flyback Switch Regulator with 9V Output	8-SOIC	6.13	4.07	3.25
LT1424IN8-9-ND	—	Isolated Flyback Switch Reg. w/9V Output, Ind. Temp.	8-Dip	7.38	4.90	4.30
LT1424IS8-5-ND	—	Isolated Flyback Switch Reg. w/5V Output, Ind. Temp.	8-SOIC	7.63	5.07	4.45
LT1424IS8-9-ND	—	Isolated Flyback Switch Reg. w/9V Output, Ind. Temp.	8-SOIC	7.63	5.07	4.45
LT1425CS-ND	—	Isolated Flyback Switch Regulator	16-SOIC	5.88	3.91	3.10
LT1425IS-ND	—	Isolated Flyback Switch Regulator, Ind. Temp.	16-SOIC	7.38	4.90	4.20
LT1431CN8-ND	9176B	Programmable Reference, .4% Tolerance	8-Dip	2.25	1.50	1.25
LT1431CS8-ND	9176B	Programmable Reference, .4% Tolerance	8-SOIC	3.13	2.08	1.80
LT1431IN8-ND	9176B	Programmable Reference, .4% Tolerance	8-Dip	2.88	1.92	1.60
LT1431IZ-ND	9176B	Programmable Reference, .4% Tolerance	TO-92	2.13	1.42	1.22
LT1457CN8-ND	9210B	Dual Precision JFET Input Op Amp	8-Dip	4.50	3.00	2.40
LT1457S8-ND	9210B	Dual Precision JFET Input Op Amp	8-SOIC	4.75	3.17	2.55
LT1460ACN8-2.5-ND	—	2.5V, Micropower Precision Series Reference	8-Dip	6.00	3.99	3.30
LT1460ACN8-5-ND	—	5V, Micropower Precision Series Reference	8-Dip	6.00	3.99	3.30
LT1460ACN8-10-ND	—	10V, Micropower Precision Series Reference	8-Dip	5.50	3.66	2.85
LT1460ACS8-2.5-ND	—	2.5V, Micropower Precision Series Reference	8-SOIC	6.25	4.15	3.45
LT1460ACS8-5-ND	—	5V, Micropower Precision Series Reference	8-SOIC	6.25	4.15	3.45
LT1460ACS8-10-ND	—	10V, Micropower Precision Series Bandgap Reference	8-SOIC	6.25	4.15	3.25
LT1460BIN8-5-ND	9294B	5V, Micropower Precision Series Bandgap Reference	8-Dip	9.00	5.98	4.95
LT1460BIS8-2.5-ND	9294B	2.5V, Micropower Precision Series Bandgap Reference	8-SOIC	9.13	6.06	5.05
LT1460BIS8-5-ND	9294B	5V, Micropower Precision Series Bandgap Reference	8-SOIC	9.13	6.06	5.05
LT1460CCMS8-2.5-ND	9294B	2.5V, Micropower Precision Series Bandgap Ref.	8-MSOP	6.50	4.32	3.60
LT1460CCMS8-5-ND	9294B	5V, Micropower Precision Series Bandgap Ref.	8-MSOP	6.50	4.32	3.60
LT1460DCN8-2.5-ND	9294B	2.5V, Micropower Precision Series Bandgap Reference	8-Dip	3.75	2.49	2.10
LT1460DCN8-5-ND	9294B	5V, Micropower Precision Series Bandgap Reference	8-Dip	3.75	2.49	2.10
LT1460DCS8-2.5-ND	9294B	2.5V, Micropower Precision Series Bandgap Reference	8-SOIC	4.00	2.66	2.20
LT1460DCS8-5-ND	9294B	5V, Micropower Precision Series Bandgap Reference	8-SOIC	4.00	2.66	2.20
LT1460DCS8-10-ND	9294B	10V, Micropower Precision Series Bandgap Reference	8-SOIC	4.00	2.66	2.20
LT1460EIN8-2.5-ND	9294B	2.5V, Micropower Precision Series Bandgap Reference	8-Dip	4.25	2.83	2.35
LT1460EIN8-5-ND	9294B	5V, Micropower Precision Series Bandgap Reference	8-Dip	4.25	2.83	2.30
LT1460EIS8-2.5-ND	9294B	2.5V, Micropower Precision Series Bandgap Reference	8-SOIC	4.50	2.99	2.50
LT1460EIS8-5-ND	9294B	5V, Micropower Precision Series Bandgap Reference	8-SOIC	4.38	2.91	2.40
LT1460EIS8-10-ND	9294B	10V, Micropower Precision Series Bandgap Reference	8-SOIC	4.38	2.91	2.40
LT1460FCMS8-5-ND	9294B	5V, Micropower Precision Series Bandgap Ref.	8-MSOP	4.25	2.83	2.30
LT1460FCMS8-10-ND	9294B	10V Micropower Precision Series Bandgap Reference	8-SOIC	4.25	2.83	2.35
LT1460GCZ-2.5-ND	9294B	2.5V, Micropower Precision Series Bandgap Reference	TO-92	3.00	2.00	1.65
LT1460GCZ-5-ND	9294B	5V, Micropower Precision Series Bandgap Reference	TO-92	3.00	2.00	1.65
LT1460GIZ-5-ND	9294B	5V, Micropower Precision Series Bandgap Reference	TO-92	3.25	2.16	1.75
LT1460LHS8-2.5-ND	—	2.5V, Precision Series Ref. with Extended Temp	8-SOIC	5.00	3.32	2.85
LT1460LHS8-5-ND	—	5V, Precision Series Ref. with Extended Temp	8-SOIC	4.88	3.24	2.75
LT1460MHS8-2.5-ND	—	2.5V, Precision Series Ref. with Extended Temp	8-SOIC	4.75	3.16	2.40
LT1460MHS8-5-ND	—	5V, Precision Series Ref. with Extended Temp	8-SOIC	4.63	3.08	2.32
LT1461ACS8-3-ND	—	3V, Micropower Precision LDO Volt. Reference	8-SOIC	12.88	8.55	6.44
LT1461ACS8-3.3-ND	—	3.3V, Micropower Precision LDO Volt. Reference	8-SOIC	12.88	8.55	6.44
LT1461ACS8-4-ND	—	4.096V, Micropower Precision LDO Volt. Reference	8-SOIC	10.75	7.14	5.40
LT1461ACS8-5-ND	—	5V, Micropower Precision LDO Volt. Reference	8-SOIC	10.75	7.14	5.40
LT1461BCS8-3.3-ND	—	3.3V, Micropower Precision LDO Volt. Reference	8-SOIC	8.88	5.90	4.70
LT1461BCS8-4-ND	—	4.096V, Micropower Precision LDO Volt. Reference	8-SOIC	7.38	4.90	3.70
LT1461BCS8-5-ND	—	5V, Micropower Precision LDO Volt. Reference	8-SOIC	7.38	4.90	3.70
LT1461CCS8-3-ND	—	3V, Micropower Precision LDO Volt. Reference	8-SOIC	6.88	4.57	3.80
LT1461CCS8-3.3-ND	—	3.3V, Micropower Precision LDO Volt. Reference	8-SOIC	6.88	4.57	3.80
LT1461CCS8-4-ND	—	4.096V, Micropower Precision LDO Volt. Reference	8-SOIC	5.75	3.82	2.90
LT1461CCS8-5-ND	—	5V, Micropower Precision LDO Volt. Reference	8-SOIC	5.75	3.82	2.90
LT1461DHS8-3-ND	—	3V, Micropower Precision LDO Volt. Reference	8-SOIC	8.25	5.48	4.45
LT1461DHS8-3.3-ND	—	3.3V, Micropower Precision LDO Volt. Reference	8-SOIC	8.25	5.48	4.45
LT1461DHS8-4-ND	—	4.096V, Micropower Precision LDO Volt. Reference	8-SOIC	6.88	4.57	3.45
LT1461DHS8-5-ND	—	5V, Micropower Precision LDO Volt. Ref.	8-SOIC	6.88	4.57	3.45
LT1462ACN8-ND	9285B	Dual Micropower JFET Input Op Amp	8-Dip	8.75	5.81	4.80
LT1462ACS8-ND	9285B	Dual Micropower JFET Input Op Amp	8-SOIC	9.00	5.98	4.95
LT1464ACS8-ND	9285B	Dual Micropower JFET Input Op Amp	8-SOIC	9.00	5.98	4.95
LT1464CS8-ND	9285B	Dual Micropower JFET Input Op Amp	8-SOIC	5.00	3.32	2.75
LT1465CS-ND	—	Quad Micropower JFET Input Op Amp	14-SOIC	8.50	5.65	4.75
LT1466LCN8-ND	—	Dual Precision Rail-to-Rail In/Out Op Amp	8-Dip	8.13	5.40	4.35
LT1466LCS8-ND	—	Dual Precision Rail-to-Rail In/Out Op Amp	8-SOIC	8.25	5.50	4.40
LT1468CN8-ND	—	90MHz, High Speed, 16-Bit Accurate Op Amp	8-Dip	6.25	4.15	3.13
LT1468CS8-ND	—	90MHz, High Speed, 16-Bit Accurate Op Amp	8-SOIC	6.25	4.15	3.13
LT1468IS8-ND	—	90MHz, High Speed, 16-Bit Accurate Op Amp	8-SOIC	7.50	4.98	3.75
LT1490ACDD-ND	—	Dual Micropower Rail-to-Rail In/Out Op Amp *NEW!*	8-DFN	4.75	3.16	2.38
LT1490CMS8-ND	—	Dual Micropower Rail-to-Rail In/Out Op Amp	8-MSOP	4.50	3.00	2.40
LT1490CN8-ND	9285B	Dual Micropower Rail-to-Rail In/Out Op Amp	8-Dip	3.75	2.50	2.05
LT1490CS8-ND	9285B	Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.88	2.60	2.15
LT1490IN8-ND	—	Dual Micropower Rail-to-Rail In/Out Op Amp	8-Dip	4.50	2.99	2.45
LT1490IS8-ND	—	Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	4.63	3.08	2.60
LT1491CN-ND	—	Quad Micropower Rail-to-Rail In/Out Op Amp	14-Dip	6.25	4.15	3.50
LT1491IS-ND	—	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	7.75	5.15	4.25
LT1492CN8-ND	—	Dual Low Power Single Supply Precision Op Amp	8-Dip	7.38	4.90	3.69
LT1492CS8-ND	—	Dual Low Power Single Supply Precision Op Amp	8-SOIC	7.50	4.98	3.75
LT1493CS-ND	—	Quad Low Power Single Supply Precision Op Amp	16-SOIC	13.50	8.97	6.75
LT1494CMS8-ND	—	Single Rail-to-Rail In/Out Op Amp	8-MSOP	3.63	2.41	1.90
LT1494CN8-ND	—	Single Rail-to-Rail In/Out Op Amp.	8-Dip	3.38	2.25	1.80
LT1494CS8-ND	—	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25	1.80
LT1494HS8-ND	—	Single Rail-to-Rail In/Out Op Amp	8-SOIC	4.13	2.74	2.20
LT1494IMS8-ND	—	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-MSOP	4.13	2.74	2.20

(Continued)

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Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LT1494IN8-ND	—	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	3.88	2.58	2.10
LT1494IS8-ND	—	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	3.88	2.58	2.10
LT1495CN8-ND	—	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	5.13	3.41	3.00
LT1495CS8-ND	—	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	5.38	3.57	3.10
LT1495HS8-ND	—	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.49	3.75
LT1495IN8-ND	—	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.00	4.50	3.95
LT1495IS8-ND	—	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.25	4.15	3.55
LT1496CN-ND	—	Quad Rail-to-Rail In/Out Precision Op Amp	14-Dip	6.75	4.49	3.95
LT1496CS-ND	—	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	7.00	4.65	4.10
LT1496HS-ND	—	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	8.75	5.81	4.90
LT1496IN-ND	—	Quad Rail-to-Rail In/Out Precision Op Amp	14-Dip	8.00	6.80	6.15
LT1496IS-ND	—	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	8.25	5.48	4.70
LT1497CS-ND	—	Dual Current Feedback Amp	16-SOIC	7.88	5.23	4.20
LT1497CS8-ND	—	Dual Current Feedback Amp	8-SOIC	6.25	4.15	3.45
LT1498CN8-ND	—	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-Dip	6.50	4.32	3.25
LT1498CS8-ND	—	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-SOIC	6.75	4.49	3.38
LT1498IN8-ND	—	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-Dip	6.75	4.49	3.45
LT1498IS8-ND	—	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-SOIC	7.00	4.65	3.65
LT1499CS-ND	—	10MHz, Quad Rail-to-Rail In/Out Op Amp	14-SOIC	12.25	8.14	6.13
LT1499IS-ND	—	10MHz, Quad Rail-to-Rail In/Out Op Amp	14-SOIC	12.88	8.55	6.50
LT1500CS-ND	9285B	Adaptive Frequency Current Mode Switching Reg.	14-SOIC	5.00	3.35	2.85
LT1505CG-ND	—	Constant-Current/Voltage, High Efficiency Battery Charger	28-SSOP	9.88	6.56	5.15
LT1505CG-1-ND	—	Constant-Current/Voltage, High Efficiency Battery Charger	28-SSOP	9.38	6.23	4.90
LT1506CR-SYNC-ND	—	500kHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1506CR-3.3-ND	—	500kHz, 4.5A, 3.3V Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1506CS8-ND	—	500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1506CS8-3.3-ND	—	500kHz, 4.5A, 3.3V Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1506IR-ND	—	500kHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1506IR-3.3-ND	—	500kHz, 4.5A, 3.3V Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1506IS8-ND	—	500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1506IS8-3.3-ND	—	500kHz, 4.5A, 3.3V Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1507CS8-ND	9285B	500kHz, Monolithic Buck Mode Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1507CS8-3.3-ND	—	500kHz, 3.3V Mono Buck Mode Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1508CSW-ND	9294B	Power Factor and PWM Controller	20-SOIC	7.88	5.25	4.50
LT1508ISW-ND	9294B	Power Factor and PWM Controller, Ind. Temp.	20-SOIC	8.75	5.85	5.00
LT1510-5CGN-ND	—	500kHz, 1.5A Constant Volt/Current Battery Charger	16-SSOP	8.13	5.40	4.35
LT1510CGN-ND	9285B	200kHz, 1.5A Constant Volt/Current Battery Charger	16-SSOP	8.13	5.40	4.35
LT1510CN-ND	9285B	200kHz, 1.5A Constant Volt/Current Battery Charger	16-Dip	7.50	4.98	4.00
LT1510CS-ND	—	200kHz, 1.5A Constant Volt/Current Battery Charger	16-SOIC	7.88	5.23	4.20
LT1510CS8-ND	9285B	200kHz, 1.5A Constant Volt/Current Battery Charger	8-SOIC	6.00	3.99	3.20
LT1510IS-ND	—	200kHz, 1.5A Constant Volt/Current Battery Charger	16-SOIC	9.00	5.98	4.80
LT1510IS8-ND	—	200kHz, 1.5A Constant Volt/Current Battery Charger	8-SOIC	6.88	4.57	3.65
LT1511CSW-ND	—	3A Constant Current/Volt. Voltage Battery Charger	24-SOIC	13.00	8.64	6.95
LT1511ISW-ND	—	3A Constant Current/Volt. Battery Charger, Ind. Temp.	24-SOIC	15.00	10.00	8.60
LT1512CGN-ND	—	1.5A, SEPIC Constant Current/Volt Battery Charger	16-SSOP	8.00	5.32	4.60
LT1512CN8-ND	—	1.5A, SEPIC Constant Current/Volt Battery Charger	8-Dip	6.75	4.50	3.85
LT1512CS8-ND	—	1.5A, SEPIC Constant Current/Volt Battery Charger	8-SOIC	7.00	4.65	4.00
LT1513-2CR-ND	—	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger	7-DD	9.13	6.06	4.70
LT1513-2CT7-ND	—	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger	TO-220-7	8.75	5.81	4.55
LT1513CR-ND	—	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger	7-DD	9.13	6.06	4.70
LT1513IR-ND	—	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger, Ind. Temp.	7-DD	10.00	6.64	5.20
LT1521CMS8-ND	—	Adj., 300mA, LDO Voltage Regulator	8-MSOP	4.63	3.08	2.35
LT1521CMS8-3.3-ND	—	3.3V, 300mA, LDO Voltage Regulator	8-MSOP	4.63	3.08	2.35
LT1521CS8-ND	9257B	Adj., 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-3-ND	9257B	3V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-3.3-ND	9257B	3.3V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-5-ND	9257B	5V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CST-3-ND	9257B	3V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521CST-3.3-ND	9257B	3.3V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521CST-5-ND	9257B	5V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521IS8-5-ND	—	5V, 300mA, LDO Voltage Regulator	8-SOIC	5.00	3.35	2.85
LT1521IST-3.3-ND	—	3.3V, 300mA, LDO Voltage Regulator	SOT-223	4.75	3.16	2.70
LT1521IST-5-ND	—	5V, 300mA, LDO Voltage Regulator	SOT-223	4.75	3.16	2.70
LT1528CQ-ND	—	3.3V, 3A, LDO Voltage Regulator	5-DD	7.13	4.75	4.10
LT1528CT-ND	9257B	3.3V, 3A, LDO Voltage Regulator	TO-220-5	6.50	4.35	3.75
LT1529CQ-ND	—	Adj., 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CQ-3.3-ND	—	3.3V, 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CQ-5-ND	—	5V, 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CT-ND	9257B	Adj., 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1529CT-3.3-ND	—	3.3V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1529CT-5-ND	9257B	5V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1533CS-ND	—	1A, Ultra Low Noise Switching Regulator	16-SOIC	9.25	6.15	4.85
LT1533IS-ND	—	1A, Ultra Low Noise Switching Regulator	16-SOIC	11.50	7.65	6.55
LT1534CS-ND	—	2A, Ultra Low Noise Switching Regulator	16-SOIC	8.25	5.48	4.25
LT1534IS-ND	—	2A, Ultra Low Noise Switching Regulator	16-SOIC	9.50	6.31	4.80
LT1537CG-ND	—	5V, Low Power, RS232, 3 Drivers/5 Receivers	28-SSOP	6.00	4.00	3.40
LT1567CMS8-ND	—	Op Amp and Inverter/Filter Building Block	8-MSOP	3.75	2.49	2.00
LT1568CGN-ND	—	Low Noise High Frequency Filter Building Block *NEW!*	16-SSOP	8.50	5.65	4.70
LT1573CS8-ND	—	Adjustable LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.5-ND	—	2.5V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.8-ND	—	2.8V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-3.3-ND	—	3.3V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1575CN8-ND	—	Adjustable Precision Linear Reg Controller	8-Dip	4.75	3.16	2.70
LT1575CN8-3.3-ND	—	3.3V, Precision Linear Reg Controller	8-Dip	4.75	3.16	2.70
LT1575CS8-ND	—	Ultrafast Transient Response Low Dropout Regulator	8-SOIC	4.75	3.16	2.70
LT1575CS8-2.8-ND	—	2.8V, Precision Linear Reg Controller	8-SOIC	4.75	3.16	2.70
LT1575CS8-3.3-ND	—	3.3V, Precision Linear Reg Controller	8-SOIC	4.75	3.16	2.70
LT1575CS8-5-ND	—	5V, Precision Linear Reg Controller	8-SOIC	4.75	3.16	2.70
LT1576CS8-ND	—	1.5A, 200kHz, Step Down Switching Regulator	8-SOIC	5.75	3.82	2.95
LT1576CS8-SYNC-ND	—	1.5A, 200kHz, Step Down Switching Reg., Sync Input	8-SOIC	5.75	3.82	2.95
LT1576IS8-SYNC-ND	—	1.5A, 200kHz, Step Down Switching Reg., Sync Input	8-SOIC	6.63	4.40	3.35
LT1579CGN-ND	—	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3-ND	—	3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3.3-ND	—	3.3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-5-ND	—	5V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CS-ND	—	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-3-ND	—	3V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-3.3-ND	—	3.3V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-5-ND	—	5V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS8-ND	—	Adj., 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-3-ND	—	3V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-3.3-ND	—	3.3V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-5-ND	—	5V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579IGN-ND	—	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	10.00	6.64	5.70
LT1580CQ-ND	—	Adj., 7A, High Speed LDO Voltage Regulator	5-DD	11.50	7.64	5.75
LT1580CR-2.5-ND	—	2.5V, 7A, High Speed LDO Voltage Regulator	7-DD	11.88	7.89	5.94
LT1580CT-ND	9285B	Adj., 7A, High Speed LDO Voltage Regulator	TO-220-5	11.25	7.47	5.63
LT1580CT7-2.5-ND	—	2.5V, 7A, High Speed LDO Voltage Regulator	TO-220-7	11.63	7.72	5.82
LT1580IQ-ND	—	Adj., 7A, High Speed LDO Voltage Regulator	5-DD	13.75	9.13	6.88
LT1580IR-2.5-ND	—	2.5V, 7A, High Speed LDO Voltage Reg., Ind. Temp.	7-DD	14.00	9.30	7.00
LT1581CT7-ND	—	Adj., 10A, LDO Voltage Regulator	TO-220-7	13.13	8.75	7.50
LT1581CT7-2.5-ND	—	2.5V, 10A, LDO Voltage Regulator	TO-220-7	13.13	8.75	7.50
LT1584CT-ND	9257B	Adj., 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584CT-3.3-ND	9257B	3.3V, 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584CT-3.38-ND	9257B	3.38V, 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584IT-3.3-ND	—	3.3V, 7A, LDO Voltage Regulator	TO-220	12.75	8.47	7.40
LT1585ACM-1.5-ND	—	1.5V, 4.6A, LDO Voltage Regulator	3-DD	8.13	5.40	4.65
LT1585ACT-1.5-ND	—	1.5V, 4.6A, LDO Voltage Regulator	TO-220	7.50	5.00	4.25
LT1585CM-ND	9210B	Adj., 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CM-3.3-ND	9210B	3.3V, 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CM-3.6-ND	9210B	3.6V, 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CT-ND	9210B	Adj., 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT-3.3-ND	9210B	3.3V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT-3.38-ND	9210B	3.38V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT-3.6-ND	9210B	3.6V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1587CM-ND	9257B	Adj., 3A, LDO Voltage Regulator	3-DD	6.50	4.35	3.70
LT1587CM-1.5-ND	—	1.5V, 3A, LDO Voltage Regulator	3-DD	6.50	4.35	3.70
LT1587CT-ND	9257B	Adj. 3A, LDO Voltage Regulator	TO-220	5.88	3.92	3.35
LT1587CT-3.3-ND	9257B	3.3V, 3A, LDO Voltage Regulator	TO-220	5.88	3.92	3.35
LT1610CMS8-ND	—	1.7MHz, Single Cell DC/DC Converter	8-MSOP	4.13	2.74	2.10
LT1610CS8-ND	—	1.7MHz, Single Cell DC/DC Converter	8-SOIC	3.50	2.33	1.75
LT1610IS8-ND	—	1.7MHz, Single Cell DC/DC Converter	8-SOIC	4.25	2.83	2.25
LT1611CS5-ND	—	1.4MHz, Inverting Switching Regulator	SOT-23-5	4.00	2.66	2.15
LT1613CS5-ND	—	1.4MHz, Single Cell DC/DC Controller	SOT-23-5	3.50	2.33	1.75
LT1614CMS8-ND	—	600kHz Inverting Switching Regulator	8-MSOP	5.50	3.66	2.80
LT1614CS8-ND	—	600kHz Inverting Switching Regulator	8-SOIC	5.00	3.32	2.55
LT1615ES5-ND	—	Micropower Step-Up DC/DC Converter	SOT-23-5	3.50	2.33	1.75
LT1615IS5-ND	—	Micropower Step-Up DC/DC Converter	SOT-23-5	4.00	2.66	2.00
LT1615IS5TR-ND	—	Micropower Step-Up DC/DC Converter	SOT-23-5	4900.00/2,500		
LT1616ES6-ND	—	1.4MHz, Step-Down Switching Regulator	SOT-23-6	4.00	2.66	2.00
LT1618EMS-ND	—	1.4MHz, Step-Up DC/DC Converter	10-MSOP	5.75	3.82	2.88
LT1619EMS8-ND	—	300kHz, 2-Cell Current Mode PWM Controller	8-MSOP	4.50	2.99	2.25
LT1619EMS8TR-ND	—	300kHz, 2-Cell Current Mode PWM Controller	8-MSOP	5411.25/2,500		
LT1619ES8-ND	—	300kHz, 2-Cell Current Mode PWM Controller	8-SOIC	4.25	2.83	2.13
LT1619ES8TR-ND	—	300kHz, 2-Cell Current Mode PWM Controller	8-SOIC	5250.00/2,500		
LT1620CGN-ND	—	Rail-to-Rail Current Sense Amp	16-SSOP	4.00	2.66	2.30
LT1620CS8-ND	—	Rail-to-Rail Current Sense Amp	8-SOIC	3.38	2.25	1.95
LT1620IS8-ND	—	Rail-to-Rail Current Sense Amp, Ind. Temp.	8-SOIC	3.88	2.58	2.05
LT1621CGN-ND	9294B	Dual Rail-to-Rail Current Sense Amp	16-SSOP	6.13	4.10	3.50
LT1621IGN-ND	9294B	Dual Rail-to-Rail Current Sense Amp, Ind. Temp.	16-SSOP	7.00	4.65	3.95
LT1630CN8-ND	—	30MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-Dip	6.50	4.32	3.25
LT1630CS8-ND	—	30MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-SOIC	6.75	4.49	3.38
LT1631CS-ND	—	30MHz, Quad Rail-to-Rail I/O Precision Op Amp	14-SOIC	12.25	8.14	6.13
LT1632CN8-ND	—	45MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-Dip	6.63	4.40	3.32
LT1632CS8-ND	—	45MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-SOIC	6.88	4.57	3.44
LT1633CS-ND	—	45MHz, Quad Rail-to-Rail I/O Precision Op Amp	14-SOIC	12.38	8.22	6.19
LT1634ACS8-1.25-ND	9294B	1.25V, Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-2.5-ND	9294B	2.5V, Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-4.096-ND	9294B	4.096V, Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-5-ND	9294B	5V, Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634AIS8-1.25-ND	—	1.25V, Micropower Shunt Voltage Reference	8-SOIC	10.38	6.89	5.20
LT1634AIS8-4.096-ND	—	4.096V, Micropower Shunt Voltage Reference	8-SOIC	10.38	6.89	5.20
LT1634BCMS8-1.25-ND	9294B	1.25V, Micropower Shunt Voltage Reference	8-MSOP	4.88	3.24	2.70
LT1634BCS8-1.25-ND	9294B	1.25V, Micropower Shunt Voltage Reference	8-SOIC	4.38	2.91	2.40
LT1634BCS8-2.5-ND	9294B	2.5V, Micropower Shunt Voltage Reference	8-SOIC	4.38	2.91	2.40
LT1634BCS8-4.096-ND	—	4.096V, Micropower Shunt Voltage Reference	8-SOIC	4.38	2.91	2.40
LT1634BIS8-1.25-ND	9294B	1.25V, Micropower Shunt Voltage Reference	8-SOIC	5.63	3.74	2.95
LT1634BIS8-2.5-ND	9294B	2.5V, Micropower Shunt Voltage Reference	8-SOIC	5.63	3.74	2.95
LT1634CCZ-4.096-ND	—	4.096V, Micropower Shunt Voltage Reference	TO-92	3.88	2.58	2.15
LT1635CN8-ND	9294B	Micropower Rail-to-Rail Op Amp and Reference	8-Dip	3.50	2.33	1.85
LT1635CS8-ND	9294B	Micropower Rail-to-Rail Op Amp and Reference	8-SOIC	3.88	2.58	2.05
LT1636CDD-ND	—	220kHz, Single Micropower R-R I/O Op Amp *NEW!*	8-DFN	3.75	2.49	2.00
LT1636CMS8-ND	9294B	220kHz, Single Micropower R-R I/O Op Amp	8-MSOP	3.50	2.33	1.90
LT1636CN8-ND	9294B	220kHz, Single Micropower R-R I/O Op Amp	8-Dip	2.88	1.91	1.50
LT1636CS8-ND	—	220kHz, Single Micropower R-R I/O Op Amp	8-SOIC	3.00	2.00	1.55
LT1636HS8-ND	—	220kHz, Single Micropower R-R I/O Op Amp	8-SOIC	3.75	2.49	1.90
LT1636IS8-ND	—	220kHz, Single Micropower R-R I/O Op Amp, Ind. Temp.	8-SOIC	3.50	2.33	1.80
LT1637CDD-ND	—	1.1MHz, Single Micropower R-R I/O Op Amp *NEW!*	8-DFN	3.63	2.41	1.90
LT1637CN8-ND	—	1.1MHz, Single Micropower R-R I/O Op Amp	8-Dip	2.88	1.91	1.50
LT1637CS8-ND	—	1.1MHz, Single Micropower R-R I/O Op Amp	8-SOIC	3.00	2.00	1.55
LT1637HS8-ND	—	1.1MHz, Single Micropower R-R I/O Op Amp	8-SOIC	3.50	2.33	1.85
LT1638CDD-ND	—	1.2MHz, Dual Micropower R-R I/O Op Amp *NEW!*	8-DFN	4.75	3.16	2.50
LT1638CMS8-ND	—	1.2MHz, Dual Micropower R-R I/O Op Amp	8-MSOP	4.50	3.00	2.40
LT1638CN8-ND	—	1.2MHz, Dual Micropower R-R I/O Op Amp	8-Dip	3.75	2.50	2.05
LT1638CS8-ND	—	1.2MHz, Dual Micropower R-R I/O Op Amp	8-SOIC	3.88	2.60	2.15
LT1638HS8-ND	—	1.2MHz, Dual Micropower R-R I/O Op Amp	8-SOIC	4.88	3.24	2.70
LT1638IS8-ND	—	1.2MHz, Dual Micropower R-R I/O Op Amp, Ind. Temp.	8-SOIC	4.63	3.08	2.60
LT1639HS-ND	—	1.2MHz, Quad Micropower R-R I/O Op Amp	8-SOIC	8.00	5.32	4.35
LT1639IS-ND	—	1.2MHz, Quad Micropower R-R I/O Op Amp, Ind. Temp.	8-SOIC	7.75	5.15	4.25
LT1640AHCN8-ND	—	Negative Voltage Hot Swap Controller	8-Dip	3.88	2.58	2.05
LT1640AHCS8-ND	—	Negative Voltage Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LT1640AHCS8TR-ND	—	Negative Voltage Hot Swap Controller	8-SOIC	5024.99/2,500		

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Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LT1640ALCN8-ND	—	Negative Voltage Hot Swap Controller	8-Dip	3.88	2.58	2.05
LT1640ALCS8-ND	—	Negative Voltage Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LT1640HIS8-ND	—	Negative Voltage Hot Swap Controller, Ind. Temp.	8-SOIC	4.50	2.99	2.35
LT1640LCN8-ND	—	Negative Voltage Hot Swap Controller	8-Dip	3.88	2.58	2.05
LT1640LCS8-ND	—	Negative Voltage Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LT1640LIS8-ND	—	Negative Voltage Hot Swap Controller, Ind. Temp.	8-SOIC	4.50	2.99	2.35
LT1641-1CS8-ND	—	Positive High Voltage Hot Swap Controller	8-SOIC	5.00	3.32	2.50
LT1641-2CS8-ND	—	Positive High Voltage Hot Swap Controller	8-SOIC	5.00	3.32	2.50
LT1671CS8-ND	—	60nS Low Power Ground-Sensing Comparator	8-SOIC	3.50	2.33	1.80
LT1672CMS8-ND	—	Single Rail-to-Rail In/Out Op Amp	8-MSOP	3.63	2.41	1.90
LT1672CN8-ND	—	Single Rail-to-Rail In/Out Op Amp	8-Dip	3.38	2.25	1.80
LT1672CS8-ND	—	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25	1.80
LT1672IMS8-ND	—	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-MSOP	4.13	2.74	2.20
LT1672IN8-ND	—	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	3.88	2.58	2.10
LT1672IS8-ND	—	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	3.88	2.58	2.10
LT1673CN8-ND	—	Dual Rail-to-Rail In/Out Op Amp	8-Dip	5.13	3.41	3.00
LT1673CS8-ND	—	Dual Rail-to-Rail In/Out Op Amp	8-SOIC	5.38	3.57	3.10
LT1673IN8-ND	—	Dual Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	6.00	3.99	3.45
LT1673IS8-ND	—	Dual Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	6.25	4.15	3.55
LT1674CN-ND	—	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	6.75	4.49	3.95
LT1674CS-ND	—	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	7.00	4.65	4.10
LT1674IN-ND	—	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-Dip	8.00	5.32	4.60
LT1674IS-ND	—	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-SOIC	8.25	5.48	4.70
LT1675CGN-ND	—	Triple, High Speed RGB Multiplexer	16-SSOP	6.63	4.40	3.55
LT1675CMS8-1-ND	—	Single, High Speed RGB Multiplexer	8-MSOP	4.50	2.99	2.30
LT1675CS8-1-ND	—	Single, High Speed RGB Multiplexer	8-SOIC	4.13	2.74	2.07
LT1676CS8-ND	—	High Efficiency, Step Down Switching Regulator	8-SOIC	5.38	3.57	2.85
LT1676IS8-ND	—	High Efficiency, Step Down Switching Reg., Ind Temp.	8-SOIC	6.25	4.15	3.35
LT1680CN-ND	—	High Power DC/DC Step Up Controller	16-Dip	8.00	5.32	4.25
LT1680CSW-ND	9294B	High Power DC/DC Step Up Controller	16-SOIC	8.38	5.57	4.45
LT1680IN-ND	9294B	High Power DC/DC Step Up Controller	16-Dip	9.63	6.40	5.15
LT1680ISW-ND	9294B	High Power DC/DC Step Up Controller	16-SOIC	10.00	6.64	5.35
LT1681ESW-ND	—	Dual Transistor Synch. Forward Controller	20-SOIC	10.63	7.06	5.32
LT1681ISW-ND	—	Dual Transistor Synch. Forward Controller	20-SOIC	11.75	7.81	5.88
LT1683EG-ND	—	Ultra Low Noise Push-Pull DC/DC Controller	20-SSOP	9.63	6.40	4.85
LT1711CMS8-ND	—	Single Rail-to-Rail, In/Out Comparator	8-MSOP	4.38	2.91	2.50
LT1711IMS8-ND	—	Single Rail-to-Rail, In/Out Comparator, Ind. Temp.	8-MSOP	4.75	3.16	2.65
LT1713IMS8-ND	—	Single, Low Power, R/R I/O Comparator	8-MSOP	4.38	2.91	2.35
LT1714CGN-ND	—	Dual Rail-to-Rail, In/Out Comparator	16-SSOP	6.63	4.40	3.32
LT1714IGN-ND	—	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.	16-SSOP	7.13	4.74	3.57
LT1715CMS-ND	—	Dual Rail-to-Rail, In/Out Comparator	10-MSOP	6.88	4.57	3.65
LT1716CS5-ND	—	44V, Micropower Precision R/R Comparator	SOT-23-5	2.00	1.45	1.20
LT1716IS5-ND	—	44V, Micropower Precision R/R Comparator	SOT-23-5	2.38	1.75	1.45
LT1719CS6-ND	—	Single Rail-to-Rail, In/Out Comparator	SOT-23-6	2.88	1.91	1.55
LT1719IS6-ND	—	Single Rail-to-Rail, In/Out Comparator, Ind. Temp.	SOT-23-6	3.25	2.16	1.70
LT1720CDD-ND	—	Dual Rail-to-Rail, In/Out Comparator *NEW!*	8-DFN	7.00	4.65	3.71
LT1720CMS8-ND	—	Dual Rail-to-Rail, In/Out Comparator	8-MSOP	6.50	4.32	3.45
LT1720CS8-ND	—	Dual Rail-to-Rail, In/Out Comparator	8-SOIC	6.00	3.99	3.00
LT1720IS8-ND	—	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.	8-SOIC	7.00	4.65	3.50
LT1721CGN-ND	—	Quad Rail-to-Rail, In/Out Comparator	16-SSOP	9.38	6.23	5.00
LT1721CS-ND	—	Quad Rail-to-Rail, In/Out Comparator	16-SOIC	9.00	5.98	4.80
LT1722CS5-ND	—	Single 200MHz Low Noise Precision Op Amp	SOT-23-5	2.63	1.75	1.45
LT1722CS8-ND	—	Single 200MHz Low Noise Precision Op Amp	8-SOIC	2.63	1.75	1.45
LT1723CS8-ND	—	Dual 200MHz Low Noise Precision Op Amp	8-SOIC	4.25	2.83	2.35
LT1724CS-ND	—	Quad 200MHz Low Noise Precision Op Amp	14-SOIC	7.88	5.23	4.35
LT1725IGN-ND	—	General Purpose Isolated Flyback Controller	16-SSOP	7.25	4.82	3.63
LT1725IS-ND	—	General Purpose Isolated Flyback Controller	16-SOIC	7.00	4.65	3.50
LT1737IGN-ND	—	High Power Isolated Flyback Controller	16-SSOP	7.25	4.82	3.63
LT1737IS-ND	—	High Power Isolated Flyback Controller	16-SOIC	7.00	4.65	3.50
LT1738EG-ND	—	Ultra Low Noise DC/DC Controller	20-SSOP	8.63	5.73	4.32
LT1738IG-ND	—	Ultra Low Noise DC/DC Controller	20-SSOP	9.88	6.56	4.94
LT1739CFE-ND	—	Dual 500mA, 200MHz xDSL Line Driver Amp	20-TSSOP	7.38	4.90	4.25
LT1739CUE-ND	—	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	7.38	5.00	4.35
LT1739IUE-ND	—	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	9.00	6.05	5.25
LT1761ES5-BYP-ND	—	Adj., 100mA, Low Noise LDO Micropower Reg.	SOT-23-5	1.93	1.28	.97
LT1761ES5-1.5-ND	—	1.5V, 100mA, Low Noise LDO Micropower Reg.	SOT-23-5	1.93	1.28	.97
LT1761ES5-1.8-ND	—	1.8V, 100mA, Low Noise LDO Micropower Reg.	SOT-23-5	1.93	1.28	.97
LT1761ES5-2.5-ND	—	2.5V, 100mA, Low Noise LDO Micropower Reg.	SOT-23-5	1.93	1.28	.97
LT1762EMS8-ND	—	Adj., 150mA, Low Noise LDO Micropower Regulator	8-MSOP	2.38	1.58	1.19
LT1763CS8-ND	—	Adj., 500mA, Low Noise LDO Micropower Regulator	8-SOIC	4.13	2.74	2.07
LT1764AEQ-ND	—	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator	DD-5	7.13	4.74	3.57
LT1764AEQ-1.5-ND	—	1.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	DD-5	7.13	4.74	3.57
LT1764AEQ-1.8-ND	—	1.8V, 3A, Fast Transient Response, Low Noise LDO Regulator	DD-5	7.13	4.74	3.57
LT1764AEQ-2.5-ND	—	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	DD-5	7.13	4.74	3.57
LT1764AEQ-3.3-ND	—	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator	DD-5	7.13	4.74	3.57
LT1764AET-ND	—	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator	TO-220-5	7.13	4.74	3.57
LT1764AET-1.5-ND	—	1.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	TO-220-5	7.13	4.74	3.57
LT1764AET-1.8-ND	—	1.8V, 3A, Fast Transient Response, Low Noise LDO Regulator	TO-220-5	7.13	4.74	3.57
LT1764AET-2.5-ND	—	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	TO-220-5	7.13	4.74	3.57
LT1764AET-3.3-ND	—	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator	TO-220-5	7.13	4.74	3.57
LT1765EFE-ND	—	3A Step-Down Switching Regulator	16-TSSOP	9.65	6.41	5.10
LT1765EFE-1.8-ND	—	1.8V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.41	5.10
LT1765EFE-2.5-ND	—	2.5V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.41	5.10
LT1765EFE-3.3-ND	—	3.3V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.41	5.10
LT1765EFE-5-ND	—	5V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.41	5.10
LT1765ES8-ND	—	3A Step-Down Switching Regulator	8-SOIC	9.58	6.36	4.79
LT1765ES8TR-ND	—	3A Step-Down Switching Regulator	8-SOIC	11824.98/2,500		
LT1766EGN-ND	—	1.5A, 200kHz High Volt. Step-Down Switching Reg.	16-SSOP	7.38	4.90	3.72
LT1766EGN-5-ND	—	1.5A, 200kHz High Volt. Step-Down Switching Reg.	16-SSOP	7.38	4.90	3.72
LT1766IGN-ND	—	1.5A, 200kHz High Volt. Step-Down Switching Reg.	16-SSOP	9.00	5.98	4.50
LT1767EMS8-1.8-ND	—	1.8V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.10
LT1767EMS8-2.5-ND	—	2.5V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.10
LT1767EMS8-3.3-ND	—	3.3V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.10
LT1767EMS8-5-ND	—	5V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.10
LT1767EMS8E-ND	—	Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.06	3.11
LT1767EMS8E-1.8-ND	—	1.8V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.06	3.11
LT1767EMS8E-2.5-ND	—	2.5V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.06	3.11
LT1767EMS8E-3.3-ND	—	3.3V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.06	3.11
LT1767EMS8E-5-ND	—	5V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.06	3.11
LT1769CFE-ND	—	Constant-Current/Voltage 2A Battery Charger	20-TSSOP	10.50	6.98	5.25
LT1769CGN-ND	—	Constant-Current/Voltage 2A Battery Charger	28-SSOP	10.13	6.73	5.10
LT1769IFE-ND	—	Constant-Current/Voltage 2A Battery Charger	20-TSSOP	11.50	7.64	5.75
LT1776CN8-ND	—	High Efficiency, Step Down Switching Regulator, Wide Input Range	8-Dip	5.00	3.32	2.65
LT1776CS8-ND	—	High Efficiency, Step Down Switching Regulator, Wide Input Range	8-SOIC	5.25	3.49	2.75
LT1776IN8-ND	—	High Efficiency, Step Down Switching Regulator, Wide Input Range	8-Dip	5.75	3.82	3.10
LT1776IS8-ND	—	High Efficiency, Step Down Switching Regulator, Wide Input Range	8-SOIC	3.15	3.99	3.15
LT1780CN-ND	—	5V, RS232, Dual Driver/Receiver, 15KV ESD	18-Dip	5.25	3.49	2.95
LT1780CSW-ND	—	5V, RS232, Dual Driver/Receiver, 15KV ESD	18-SOIC	5.75	3.82	3.25
LT1781CN-ND	—	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-Dip	5.25	3.49	2.95
LT1781CS-ND	—	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	5.63	3.74	3.15
LT1781CSW-ND	—	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	5.75	3.82	3.25
LT1781IS-ND	—	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	7.00	4.65	3.73
LT1782HS5-ND	—	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	3.13	2.08	1.65
LT1782HS6-ND	—	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.50	2.33	1.80
LT1782IS5-ND	—	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	2.83	1.88	1.42
LT1782IS6-ND	—	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.23	2.15	1.62
LT1783HS5-ND	—	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	3.13	2.08	1.65
LT1783HS6-ND	—	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.50	2.33	1.80
LT1783IS5-ND	—	1.25MHz Micropower Rail-to-Rail Op Amp	SOT-23-5	2.83	1.88	1.45
LT1783IS6-ND	—	1.25MHz Micropower Rail-to-Rail Op Amp	SOT-23-6	3.23	2.15	1.62
LT1784CS5-ND	—	2.5MHz Micropower Rail-to-Rail Op Amp	SOT-23-5	2.08	1.38	1.17
LT1784CS6-ND	—	2.5MHz Micropower Rail-to-Rail Op Amp	SOT-23-6	2.25	1.50	1.26
LT1785AIN8-ND	—	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	5.63	3.75	3.00
LT1785AIS8-ND	—	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	5.75	3.85	3.10
LT1785CN8-ND	—	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	4.00	2.66	2.10
LT1785CS8-ND	—	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	4.13	2.74	2.15
LT1785IN8-ND	—	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	4.63	3.08	2.40
LT1785IS8-ND	—	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	4.75	3.16	2.45
LT1786FCS-ND	—	SMBus Programmable CCFL Switching Regulator	16-SOIC	9.00	5.98	4.50
LT1787HS8-ND	—	Precision Current Sense Op Amp	8-SOIC	5.63	3.74	2.90
LT1787HVHS8-ND	—	Precision Current Sense Op Amp	8-SOIC	7.50	4.98	3.80
LT1789CS8-1-ND	—	Micropower Single R/R Out Instrumentation Amp	8-SOIC	6.38	4.24	3.30
LT1789IS8-1-ND	—	Micropower Single R/R Out Instrumentation Amp	8-SOIC	7.38	4.90	3.85
LT1790BCS6-1.25-ND	—	1.25V Micropower LDO Reference	SOT-23-6	2.63	1.75	1.35
LT1790BCS6-2.048-ND	—	2.048V Micropower LDO Reference	SOT-23-6	2.63	1.75	1.35
LT1790BCS62.048TR-ND	—	2.048V Micropower LDO Reference	SOT-23-6	3274.99/2,500		
LT1790BCS6-3-ND	—	3V Micropower LDO Reference	SOT-23-6	2.63	1.75	1.35
LT1790BCS6-3TR-ND	—	3V Micropower LDO Reference	SOT-23-6	3274.99/2,500		
LT1790BCS6-3.3-ND	—	3.3V Micropower LDO Reference	SOT-23-6	2.63	1.75	1.35
LT1790BCS6-3.3TR-ND	—	3.3V Micropower LDO Reference	SOT-23-6	3274.99/2,500		
LT1790BCS6-4.096-ND	—	4.096V Micropower LDO Reference	SOT-23-6	2.63	1.75	1.35
LT1790BCS64.096TR-ND	—	4.096V Micropower LDO Reference	SOT-23-6	3274.99/2,500		
LT1790BCS6-5-ND	—	5V Micropower LDO Reference	SOT-23-6	2.63	1.75	1.35
LT1791AIS-ND	—	60V, Fault Protected RS485/RS422 Transceiver	14-SOIC	6.38	4.25	3.40
LT1791CN-ND	—	60V, Fault Protected RS485/RS422 Transceiver	14-Dip	4.38	2.91	2.30
LT1791CS-ND	—	60V, Fault Protected RS485/RS422 Transceiver	14-SOIC	4.50	2.99	2.35
LT1791IS-ND	—	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	5.13	3.41	2.65
LT1792CN8-ND	—	Low Noise, JFET Input Precision Op Amp	8-Dip	4.75	3.16	2.45
LT1792CS8-ND	—	Low Noise, JFET Input Precision Op Amp	8-SOIC	4.75	3.16	2.45
LT1793CN8-ND	—	Low Noise, JFET Input Precision Op Amp	8-Dip	4.75	3.16	2.45
LT1793CS8-ND	—	Low Noise, JFET Input Precision Op Amp	8-SOIC	4.75	3.16	2.45
LT1794CSW-ND	—	500mA, 200MHz Dual Op Amp	20-TSSOP	10.25	6.81	5.45
LT1794IFE-ND	—	500mA, 200MHz Dual Op Amp, Ind. Temp.	20-TSSOP	12.50	8.30	6.70
LT1794ISW-ND	—	500mA, 200MHz Dual Op Amp, Ind. Temp.	20-SOIC	12.13	8.06	6.50
LT1795CSW-ND	—	Dual 500mA, 50MHz, Current Feedback Amplifier	20-SOIC	10.25	6.81	5.30
LT1796CN8-ND	—	Overvoltage Fault Protected CAN Transceiver	8-Dip	3.00	2.00	1.65
LT1796CS8-ND	—	Overvoltage Fault Protected CAN Transceiver	8-SOIC	3.00	2.00	1.65
LT1800CS5-ND	—	80MHz Low Power, R-R I/O Precision Op Amp	SOT-23-5	2.75	1.83	1.45
LT1800CS8-ND	—	80MHz Low Power, R-R I/O Precision Op Amp	8-SOIC	2.75	1.83	1.45
LT1801CDD-ND	—	Dual 80MHz, 25V/µs, Low Power, R-R, In/Out Precision Op Amp *NEW!*	8-DFN	4.38	2.91	2.35
LT1801CMS8-ND	—	Dual 80MHz, 25V/µs, Low Power, R-R, In/Out Precision Op Amp	8-SOIC	4.13	2.74	2.25
LT1801CS8-ND	—	Dual 80MHz, 25V/µs, Low Power, R-R, In/Out Precision Op Amp	8-SOIC	3.88	2.58	2.15
LT1801IMS8-ND	—	Quad 80MHz, 25V/µs, Low Power, R-R, In/Out Precision Op Amp	8-SOIC	4.88	3.24	2.70
LT1802CS-ND	—	Quad 80MHz, 25V/µs, Low Power, R-R, In/Out Precision Op Amp	14-SOIC	7.00	4.65	3.85
LT1802IS-ND	—	Quad 80MHz, 25V/µs, Low Power, R-R, In/Out Precision Op Amp	14-SOIC	8.38	5.57	4.60
LT1806CS6-ND	—	325MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	4.38	2.91	2.20
LT1806CS8-ND	—	325MHz Single Rail-to-Rail In/Out Op Amp	8-SOIC	4.38	2.91	2.20
LT1806CS8TR-ND	—	325MHz Single Rail-to-Rail In/Out Op Amp	8-SOIC	5400.00/2,500		
LT1806IS6-ND	—	325MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	4.75	3.16	2.40
LT1806IS8-ND	—	325MHz Single Rail-to-Rail In/Out Op Amp, Ind. Temp	8-SOIC	4.75	3.16	2.40
LT1806IS8TR-ND	—	325MHz Single Rail-to-Rail In/Out Op Amp, Ind. Temp	8-SOIC	5775.02/2,500		
LT1809CS6-ND	—	180MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	3.75	2.49	1.90
LT1809IS6-ND	—	180MHz Single R/R In/Out Op Amp, Ind. Temp.	SOT-23-6	4.13	2.74	2.10
LT1812CS5-ND	—	100MHz, Low Power Op Amp with Shutdown	SOT-23-5	2.38	1.58	1.35
LT1812CS6-ND	—	100MHz, Low Power Op Amp with Shutdown	SOT-23-5	2.88	1.91	1.65

(Continued)

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Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★		
				1	25	100
LT1813CS8-ND	—	Dual, High Speed, Low Power Op Amp	8-SOIC	4.13	2.74	2.30
LT1813HVCS8-ND	—	Dual, High Speed, Low Power Op Amp	8-SOIC	4.50	2.99	2.30
LT1813HVDS8-ND	—	Dual, High Speed, Low Power Op Amp	8-SOIC	4.13	2.74	2.10
LT1813HVIS8-ND	—	Dual, High Speed, Low Power Op Amp	8-SOIC	5.50	3.66	2.80
LT1814CGN-ND	—	Quad, High Speed, Low Power Op Amp	16-SSOP	7.25	4.82	4.15
LT1814CS-ND	—	Quad, High Speed, Low Power Op Amp	14-SOIC	6.88	4.57	3.95
LT1814IGN-ND	—	Quad, High Speed, Low Power Op Amp	16-SSOP	9.25	6.15	5.25
LT1815CS5-ND	—	Single, High Speed Op Amp	SOT-23-5	3.63	2.41	2.15
LT1815CS6-ND	—	Single, High Speed Op Amp	SOT-23-6	4.25	2.83	2.50
LT1815CS8-ND	—	Single, High Speed Op Amp	8-SOIC	3.75	2.49	2.30
LT1815IS5-ND	—	Single, High Speed Op Amp, Ind. Temp.	SOT-23-5	4.38	2.91	2.60
LT1815IS6-ND	—	Single, High Speed Op Amp, Ind. Temp.	SOT-23-6	5.00	3.32	3.00
LT1815IS8-ND	—	Single, High Speed Op Amp, Ind. Temp.	8-SOIC	4.50	2.99	2.70
LT1816ACMS-ND	—	Dual, High Speed Op Amp	10-MSOP	6.50	4.32	3.70
LT1816CDD-ND	—	Dual, High Speed Op Amp *NEW!*	8-DFN	6.45	4.29	3.71
LT1816CMS8-ND	—	Dual, High Speed Op Amp	8-MSOP	6.00	3.99	3.45
LT1816CS8-ND	—	Dual, High Speed Op Amp	8-SOIC	5.75	3.85	3.30
LT1816IMS8-ND	—	Dual, High Speed Op Amp	8-MSOP	7.75	5.70	4.45
LT1816IS8-ND	—	Dual, High Speed Op Amp	8-SOIC	7.25	4.85	4.15
LT1817CGN-ND	—	Quad, High Speed Op Amp	16-SSOP	8.88	5.90	5.10
LT1817CS-ND	—	Quad, High Speed Op Amp	14-SOIC	8.50	5.65	4.85
LT1819CMS8-ND	—	400MHz, 9mA, Dual Op Amp *NEW!*	8-MSOP	5.88	3.91	3.35
LT1819CS8-ND	—	400MHz, 9mA, Dual Op Amp	8-SOIC	5.63	3.75	3.25
LT1819IS8-ND	—	400MHz, 9mA, Dual Op Amp	8-SOIC	7.13	4.75	4.05
LT1880CS5-ND	—	Picoamp-In Rail-to-Rail Op Amp	SOT-23-5	3.63	2.41	2.10
LT1880IS5-ND	—	Picoamp-In Rail-to-Rail Op Amp, Ind. Temp.	SOT-23-5	4.38	2.91	2.45
LT1910ES8-ND	—	High Side Mosfet Driver *NEW!*	8-SOIC	4.13	2.74	2.09
LT1920CN8-ND	—	Precision Instrumentation Amplifier	8-Dip	6.25	4.15	3.25
LT1920CS8-ND	—	Precision Instrumentation Amplifier	8-SOIC	6.25	4.15	3.25
LT1930AES5-ND	—	2.2MHz, Step Up DC/DC Converter	SOT-23-5	4.00	2.66	2.00
LT1930ES5-ND	—	1.2MHz, Step Up DC/DC Converter	SOT-23-5	4.00	2.66	2.00
LT1930ES5TR-ND	—	1.2MHz, Step Up DC/DC Converter	SOT-23-5	4899.99/2,500		
LT1931AES5-ND	—	2.2MHz, Inverting DC/DC Converter	SOT-23-5	4.25	2.83	2.15
LT1931ES5-ND	—	1.2MHz, Inverting DC/DC Converter	SOT-23-5	4.25	2.83	2.15
LT1931ES5TR-ND	—	1.2MHz, Inverting DC/DC Converter	SOT-23-5	5150.01/2,500		
LT1932ES6-ND	—	Constant-Current DC/DC LED Driver	SOT-23-6	3.50	2.33	1.79
LT1937ES5-ND	—	White LED Step-Up Converter	TSOT-23-5	2.50	1.66	1.33
LT1944-1EMS-ND	—	Dual Micropower Step Up DC/DC Converter	10-MSOP	4.25	2.83	2.13
LT1944EMS-ND	—	Dual Micropower Step Up DC/DC Converter	10-MSOP	4.25	2.83	2.13
LT1945EMS-ND	—	Dual Micropower DC/DC Converter	10-MSOP	4.25	2.83	2.13
LT1946AEMS8E-ND	—	2.7MHz Boost DC/DC Converter with 1.5A Switch	8-MSOP	5.00	3.32	2.55
LT1946EMS8-ND	—	1.2MHz Boost DC/DC Converter with 1.5A Switch	8-MSOP	4.93	3.28	2.47
LT1947EMS-ND	—	Adj. Output TFT-LCD Triple Switching Regulator	10-MSOP	5.13	3.41	2.65
LT1949-1EMS8-ND	—	1.1MHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.99	2.25
LT1949EMS8-ND	—	600kHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.99	2.45
LT1956EGN-ND	—	1.5A, High Volt. Step-Down Switching Regulator	16-SSOP	7.38	4.90	3.72
LT1956EGN-5-ND	—	1.5A, 5V Step-Down Switching Regulator	16-SSOP	7.38	4.90	3.72
LT1961EMS8E-ND	—	1.5A, Step-Up Switching Regulator	8-MSOP	4.00	2.66	2.04
LT1962EMS8-ND	—	Adj., 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8TR-ND	—	Adj., 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4275.00/2,500		
LT1962EMS8-2.5-ND	—	2.5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8-2.5TR-ND	—	2.5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4275.00/2,500		
LT1962EMS8-3-ND	—	3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3TR-ND	—	3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4275.00/2,500		
LT1962EMS8-3.3-ND	—	3.3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3.3TR-ND	—	3.3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4275.00/2,500		
LT1962EMS8-5-ND	—	5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8-5TR-ND	—	5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4275.00/2,500		
LT1963AEQ-ND	—	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
LT1963AEQ-1.5-ND	—	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
LT1963AEQ-1.8-ND	—	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
LT1963AEQ-2.5-ND	—	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
LT1963AEQ-3.3-ND	—	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
LT1963AES8-ND	—	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.5-ND	—	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.8-ND	—	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
LT1963AES8-2.5-ND	—	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
LT1963AES8-3.3-ND	—	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
LT1963AEST-1.5-ND	—	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223-3	4.50	2.99	2.30
LT1963AEST-1.8-ND	—	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223-3	4.50	2.99	2.30
LT1963AEST-2.5-ND	—	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223-3	4.50	2.99	2.30
LT1963AEST-3.3-ND	—	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223-3	4.50	2.99	2.30
LT1963AET-ND	—	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
LT1963AET-1.5-ND	—	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
LT1963AET-1.8-ND	—	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
LT1963AET-2.5-ND	—	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
LT1963AET-3.3-ND	—	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
LT1964ES5-BYP-ND	—	200mA, Low Noise LDO Negative Micropower Regulator	SOT-23-5	2.70	1.80	1.38
LT1964ES5-5-ND	—	220A, 5V Low Noise LDO Negative Micropower Regulator	SOT-23-5	2.70	1.80	1.38
LT1969CMS-ND	—	Dual, 700MHz, 200mA, Adjustable Current Op Amp	10-MSOP	6.13	4.07	3.25

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★		
				1	25	100
LT1970CFE-ND	—	500mA Power Op Amp with Adjustable Precision Current Limit	20-TSSOP	9.88	6.56	5.65
LT1970IFE-ND	—	500mA Power Op Amp with Adjustable Precision Current Limit	20-TSSOP	11.38	7.56	6.50
LT2078AIS8-ND	—	Dual Micropower Op Amp, Ind. Temp.	8-SOIC	11.63	7.72	6.40
LT2078CS8-ND	—	Dual Micropower Op Amp	8-SOIC	6.50	4.35	3.65
LT2078IS8-ND	—	Dual Micropower Op Amp, Ind. Temp.	8-SOIC	8.38	5.60	4.85
LT2079AIS-ND	—	Quad Micropower Op Amp, Ind. Temp	14-SOIC	19.75	13.12	10.95
LT2079CS-ND	—	Quad Micropower Op Amp	14-SOIC	11.13	7.39	6.15
LT2079IS-ND	—	Quad Micropower Op Amp, Ind. Temp.	14-SOIC	14.25	9.47	7.90
LT2178AIS8-ND	—	Dual Micropower Op Amp, Ind. Temp.	8-SOIC	9.75	6.48	5.10
LT2178CS8-ND	—	Dual Micropower Op Amp	8-SOIC	7.00	4.65	3.85
LT2178IS8-ND	—	Dual Micropower Op Amp, Ind. Temp.	8-SOIC	7.75	5.15	4.05
LT2179ACS-ND	—	Quad Micropower Op Amp	14-SOIC	18.00	11.96	9.95
LT3150CGN-ND	—	Micropower Precision Triple Supply Monitor	SOT-23-5	7.40	4.92	3.77
LT3420EMS-ND	—	Photoflash Capacitor Charger with Automatic Refresh	10-MSOP	5.00	3.32	2.55
LT3431EFE-ND	—	High Voltage, 3A, Step Down Switching Regulator *NEW!*	16-TSSOP	9.90	6.58	5.05
LT3439EFE-ND	—	Ultralow Noise 1A Isolated DC/DC Transformer Driver	16-TSSOP	7.00	4.65	3.57
LT3460ES5-ND	—	1.3MHz Step-Up DC/DC Converter *NEW!*	SOT-23-5	3.08	2.05	1.54
LT3460ESC6-ND	—	1.3MHz Step-Up DC/DC Converter *NEW!*	SOT-23-6	3.28	2.18	1.64
LT3464ETS8-ND	—	Micropower Boost Converter *NEW!*	SOT-23-8	3.08	2.05	1.55
LT3710EFE-ND	—	High Efficiency Step-Down Switching Regulator	16-TSSOP	7.88	5.23	4.03
LT3781EG-ND	—	Dual Transistor Synchronous Forward Controller	20-SSOP	10.00	6.64	5.05
LT3781IG-ND	—	Dual Transistor Synchronous Forward Controller	20-SSOP	11.00	7.31	5.56
LT4250HCN8-ND	—	Negative 48V Hot Swap Controller	8-Dip	4.75	3.16	2.50
LT4250HCS8-ND	—	Negative 48V Hot Swap Controller	8-SOIC	4.88	3.24	2.55
LT4250LCN8-ND	—	Negative 48V Hot Swap Controller	8-Dip	4.75	3.16	2.50
LT4250LCS8-ND	—	Negative 48V Hot Swap Controller	8-SOIC	4.88	3.24	2.55
LT4254CGN-ND	—	Positive High Voltage Hot Swap Controller *NEW!*	16-SSOP	5.00	3.32	2.65
LT5500EGN-ND	—	1.8 to 2.7GHz, Receiver Front End	24-SSOP	6.38	4.24	3.26
LT5502EGN-ND	—	400MHz Quadrature IF Modulator	24-SSOP	10.25	6.81	5.40
LT5503EFE-ND	—	1.2 to 2.7GHz, Direct IQ Modulator and Mixer	20-TSSOP	8.25	5.48	4.13
LT5504EMS8-ND	—	800MHz to 2.7GHz RF Measuring Receiver	8-MSOP	12.50	8.30	6.63
LT5506EUF-ND	—	Quadrature Demodulator with VGA *NEW!*	16-QFN	6.63	4.40	3.40
LT5511EFE-ND	—	High Signal Level Upconverting Mixer	16-TSSOP	7.38	4.90	3.77
LT5512EUF-ND	—	High Signal Level Down-Converting Mixer	16-PQFN	7.38	4.90	3.77
LT6200CS6-ND	—	165MHz, R/R, In/Out Low Noise Op Amp	SOT-23-6	4.38	2.91	2.40
LT6200CS6-5-ND	—	800MHz, R/R, In/Out Low Noise Op Amp *NEW!*	SOT-23-6	3.08	2.05	1.65
LT6200CS6-10-ND	—	1.6GHz, R/R, In/Out Low Noise Op Amp *NEW!*	SOT-23-6	3.08	2.05	1.65
LT6200CS8-ND	—	165MHz, R/R, In/Out Low Noise Op Amp	8-SOIC	4.38	2.91	2.40
LT6200CS8-5-ND	—	800MHz, R/R, In/Out Low Noise Op Amp *NEW!*	8-SOIC	3.08	2.05	1.65
LT6200CS8-10-ND	—	1.6GHz, R/R, In/Out Low Noise Op Amp *NEW!*	8-SOIC	3.08	2.05	1.65
LT6200IS6-ND	—	165MHz, R/R, In/Out Low Noise Op Amp	SOT-23-6	5.25	3.49	2.90
LT6200IS8-ND	—	165MHz, R/R, In/Out Low Noise Op Amp	8-SOIC	5.25	3.49	2.90
LT6201CDD-ND	—	Dual, R/R, In/Out Low Noise Op Amp *NEW!*	8-DFN	7.63	5.07	4.10
LT6201CS8-ND	—	Dual, R/R, In/Out Low Noise Op Amp *NEW!*	8-SOIC	7.38	4.90	4.00
LT6203CDD-ND	—	Dual, R/R, In/Out Ultralow Noise Low Power Op Amp *NEW!*	8-DFN	5.50	3.76	3.17
LT6203CMS8-ND	—	Dual Rail-to-Rail, In/Out, Ultralow Noise, Low Power Op Amp	8-MSOP	5.13	3.50	2.95
LT6203CS8-ND	—	Dual Rail-to-Rail, In/Out, Ultralow Noise, Low Power Op Amp	8-SOIC	4.88	3.40	2.85
LT6204CS-ND	—	Quad Rail-to-Rail, In/Out, Ultralow Noise, Low Power Op Amp	14-SOIC	9.00	6.35	5.90
LT6300CGN-ND	—	500mA, 200MHz xDSL Line Driver	16-SSOP	5.88	3.91	3.35
LT6300IGN-ND	—	500mA, 200MHz xDSL Line Driver	16-SSOP	7.00	4.65	4.00
LT6301CFE-ND	—	Dual 500mA Differential xDSL Line Driver	28-TSSOP	12.38	8.25	7.05
LT6301IFE-ND	—	Dual 500mA Differential xDSL Line Driver	28-TSSOP	15.63	10.38	8.90
LT6550CMS-ND	—	3.3V, Triple Video Amplifier	10-MSOP	3.58	2.50	2.10
LT6550IMS-ND	—	3.3V, Triple Video Amplifier	10-MSOP	4.38	3.20	2.65
LT6551CMS-ND	—	3.3V, Quad Video Amplifier	10-MSOP	3.98	2.80	2.35
LT6551IMS-ND	—	3.3V, Quad Video Amplifier	10-MSOP	4.88	3.55	2.95
LT6600CS8-10-ND	—	Very Low Noise, Diff. Amplifier with 10MHz Low Pass Filter	8-SOIC	5.88	3.91	3.40
LT6600IS8-10-ND	—	Very Low Noise, Diff. Amplifier with 10MHz Low Pass Filter	8-SOIC	6.75	4.49	3.90
LTC485CN8-ND	9176B	Low Power RS485 Transceiver/Receiver Interface	8-Dip	2.50	1.66	1.35
LTC485CS8-ND	9176B	Low Power RS485 Transceiver/Receiver Interface	8-SOIC	3.13	2.10	1.70
LTC486CN-ND	9176B	Low Power Quad RS485 Driver	16-Dip	6.50	4.35	3.70
LTC486CSW-ND	9176B	Low Power Quad RS485 Driver	16-SOIC	7.50	5.00	4.25
LTC487CN-ND	9176B	Low Power Quad RS485 Driver	16-Dip	6.50	4.35	3.70
LTC487CSW-ND	9176B	Low Power Quad RS485 Driver	16-SOIC	7.50	5.00	4.25
LTC488CN-ND	9210B	Low Power Quad RS485 Receiver	16-Dip	6.50	4.33	3.70
LTC488CSW-ND	9210B	Low Power Quad RS485 Receiver	16-SOIC	7.50	5.00	4.25
LTC489CN-ND	9210B	Low Power Quad RS485 Receiver	16-Dip	6.50	4.33	3.70
LTC489CSW-ND	9210B	Low Power Quad RS485 Receiver	16-SOIC	7.50	5.00	4.25
LTC490CN8-ND	9176B	Low Power RS485 Transceiver/Receiver	8-Dip	4.38	2.92	2.50
LTC490CS8-ND	9176B	Low Power RS485 Transceiver/Receiver	8-SOIC	5.38	3.58	3.05
LTC491CN-ND	9176B	Low Power RS485 Transceiver/Receiver	14-Dip	4.88	3.25	2.80
LTC491CS-ND	9176B	Low Power RS485 Transceiver/Receiver	14-SOIC	5.88	3.92	3.25
LTC660CN8-ND	9257B	100mA, CMOS Switched Capacitor Converter	8-Dip	5.00	3.33	2.85
LTC660CS8-ND	9257B	100mA, CMOS Switched Capacitor Converter	8-SOIC	5.50	3.67	3.14
LTC690CN8-ND	9176B	MPU Supervisor Reset Circuit and WDT	8-Dip	6.25	4.17	3.50
LTC690CS8-ND	9176B	MPU Supervisor Reset Circuit and WDT	8-SOIC	6.88	4.58	3.75
LTC691CN-ND	9176B	MPU Supervisor Reset Circuit and WDT	16-Dip	6.88	4.58	3.80
LTC691CSW-ND	9176B	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC692CN8-ND	9210B	MPU Supervisor Reset Circuit and WDT	8-Dip	6.25	4.17	3.50
LTC692CS8-ND	9210B	MPU Supervisor Reset Circuit and WDT	8-SOIC	6.88	4.58	3.75
LTC693CSW-ND	9210B	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC694CN8-ND	9176B	MPU Supervisor Reset Circuit and WDT	8-Dip	6.25	4.17	3.50
LTC694CS8-ND	9210B	MPU Supervisor Reset Circuit and WDT	8-SOIC	6.88	4.58	3.75
LTC694CS8-3.3-ND	9210B	3.3V MPU Supervisor Reset Circuit and WDT	8-SOIC	7.50	5.00	4.20
LTC695CN-ND	9176B	MPU Supervisor Reset Circuit and WDT	16-Dip	6.88	4.58	3.80
LTC695CN-3.3-ND	9210B	3.3V MPU Supervisor Reset Circuit and WDT	16-Dip	7.38	4.92	4.15
LTC695CSW-ND	9176B	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC695CSW-3.3-ND	9210B	3.3V MPU Supervisor Reset Circuit and WDT	16-SOIC	8.13	5.42	4.55

(Continued)

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Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LTC699CN8-ND	9176B	MPU Supervisor Reset Circuit and WDT	8-Dip	4.63	3.08	2.47
LTC699CS8-ND	9176B	MPU Supervisor Reset Circuit and WDT	8-SOIC	5.00	3.33	2.67
LTC1040CN-ND	—	Dual Micropower Comparator	18-Dip	3.88	2.58	2.20
LTC1040CSW-ND	—	Dual Micropower Comparator	18-SOIC	4.63	3.08	2.85
LTC1041CN8-ND	—	CMOS Bang-Bang Controller	8-Dip	3.38	2.25	1.90
LTC1042CN8-ND	—	CMOS Window Comparator	8-Dip	3.38	2.25	1.90
LTC1043CN-ND	—	Dual, Precision Instrumentation Switched-Cap Building Block	18-Dip	5.13	3.42	2.95
LTC1043CSW-ND	—	Dual, Precision Instrumentation Switched-Cap Building Block	18-SOIC	5.63	3.75	3.10
LTC1044CN8-ND	—	CMOS Switched-Cap Voltage Converter	8-Dip	3.13	2.08	1.75
LTC1044CS8-ND	—	CMOS Switched-Cap Voltage Converter	8-SOIC	4.13	2.75	2.35
LTC1045CN-ND	—	Prog. µpower Hex Translator/Receiver/Driver	20-Dip	5.25	3.50	2.95
LTC1045CSW-ND	—	Prog. µpower Hex Translator/Receiver/Driver	20-SOIC	8.25	5.50	4.75
LTC1046CN8-ND	9176B	50mA, CMOS Switched-Cap Voltage Converter	8-Dip	4.00	2.70	2.25
LTC1046CS8-ND	9176B	50mA, CMOS Switched-Cap Voltage Converter	8-SOIC	5.25	3.50	3.00
LTC1046IS8-ND	—	50mA, CMOS Switched-Cap Voltage Converter	8-SOIC	6.50	4.33	3.70
LTC1047CN8-ND	9176B	Dual Chopper-Stabilized Op Amp with Internal Caps	8-Dip	9.00	6.00	5.10
LTC1047CSW-ND	9176B	Dual Chopper-Stabilized Op Amp with Internal Caps	16-SOIC	10.25	6.85	5.45
LTC1049CN8-ND	9176B	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	4.00	2.70	2.25
LTC1049CS8-ND	9176B	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	5.00	3.35	2.80
LTC1050ACN8-ND	—	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	6.88	4.60	3.95
LTC1050CN8-ND	—	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	4.00	2.70	2.25
LTC1050CS8-ND	—	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	5.00	3.35	2.80
LTC1051CN8-ND	9176B	Dual Chopper-Stabilized Op Amp with Internal Caps	8-Dip	7.50	5.00	4.25
LTC1051CSW-ND	9176B	Dual Chopper-Stabilized Op Amp with Internal Caps	16-SOIC	9.00	6.00	4.95
LTC1052CN-ND	—	Low Noise Chopper-Stabilized Op Amp	14-Dip	8.13	5.42	4.65
LTC1052CN8-ND	—	Low Noise Chopper-Stabilized Op Amp	8-Dip	7.50	5.00	4.30
LTC1053CN-ND	9176B	Quad Chopper-Stabilized Op Amp with Internal Caps	14-Dip	13.50	9.00	7.80
LTC1053CSW-ND	9176B	Quad Chopper-Stabilized Op Amp with Internal Caps	18-SOIC	16.13	10.75	8.85
LTC1059CN-ND	—	Switched-Capacitor Universal Filter Building Block	14-Dip	5.63	3.75	3.25
LTC1059CS-ND	—	Switched-Capacitor Universal Filter Building Block	14-SOIC	6.25	4.20	3.40
LTC1060ACN-ND	—	Dual Switched-Cap Universal Filter Building Block	20-Dip	13.75	9.20	8.00
LTC1060CN-ND	—	Dual Switched-Cap Universal Filter Building Block	20-Dip	6.88	4.60	3.90
LTC1060CSW-ND	—	Dual Switched-Cap Universal Filter Building Block	20-SOIC	7.50	5.00	4.25
LTC1061ACN-ND	—	Triple Switched-Cap Universal Filter Building Block	20-Dip	25.00	16.65	14.50
LTC1061CN-ND	—	Triple Switched-Cap Universal Filter Building Block	20-Dip	13.75	9.15	7.60
LTC1062CN8-ND	9210B	5th Order Lowpass Filter	8-Dip	6.13	4.10	3.30
LTC1062CSW-ND	9210B	5th Order Lowpass Filter	16-SOIC	6.25	4.20	3.55
LTC1063CN8-ND	9210B	Clock-Tunable 5th Order, Lowpass Butterworth Filter	8-Dip	10.00	6.70	5.75
LTC1063CSW-ND	9210B	Clock-Tunable 5th Order, Lowpass Butterworth Filter	16-SOIC	10.75	7.20	6.15
LTC1064-1CN-ND	—	8th Order, Clock Sweepable Elliptic Lowpass Filter	14-Dip	22.50	15.00	12.90
LTC1064-2CN-ND	9176B	8th Order, High Freq. Butterworth Lowpass Filter	14-Dip	20.00	13.35	11.25
LTC1064-2CSW-ND	9176B	8th Order, High Freq. Butterworth Lowpass Filter	16-SOIC	27.50	18.35	15.50
LTC1064-3CN-ND	9176B	8th Order, High Freq. Linear Phase Lowpass Filter	14-Dip	17.50	11.70	9.95
LTC1064-3CSW-ND	9176B	8th Order, High Freq. Linear Phase Lowpass Filter	16-SOIC	20.00	13.35	11.30
LTC1064-4CN-ND	9176B	8th Order ,Clock Sweepable Cauer Lowpass Filter	14-Dip	25.00	16.70	14.20
LTC1064-4CSW-ND	9176B	8th Order, Clock Sweepable Cauer Lowpass Filter	16-SOIC	31.25	20.85	17.65
LTC1064-7CN-ND	9210B	8th Order, Linear Phase Lowpass Filter	14-Dip	20.00	13.35	11.25
LTC1064-7CSW-ND	9210B	8th Order, Linear Phase Lowpass Filter	16-SOIC	27.50	18.35	15.50
LTC1064CN-ND	—	Quad, Universal Filter Building Block	24-Dip	15.00	10.00	8.40
LTC1064CSW-ND	—	Quad, Universal Filter Building Block	24-SOIC	18.00	12.00	9.55
LTC1065CN8-ND	9210B	5th Order, Clock-Tunable Bessel Lowpass Filter	8-Dip	10.00	6.70	5.75
LTC1065CSW-ND	9210B	5th Order, Clock-Tunable Bessel Lowpass Filter	16-SOIC	10.75	7.15	6.15
LTC1066-1CSW-ND	9210B	8th Order, Clock-Tunable Lowpass Filter	18-SOIC	32.50	21.65	17.50
LTC1067-50CS-ND	—	Dual R/R Very Low Noise Universal Filter Bldg. Block	16-SOIC	6.88	4.57	3.60
LTC1067CS-ND	—	Dual R/R Very Low Noise Universal Filter Bldg. Block	16-SOIC	6.88	4.57	3.60
LTC1068-25CG-ND	—	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068-25IG-ND	—	Quad Universal Filter Building Block, Ind. Temp.	28-SSOP	13.50	8.97	7.15
LTC1068-50CG-ND	—	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068-50IG-ND	—	Quad Universal Filter Building Block, Ind. Temp.	28-SSOP	13.50	8.97	7.15
LTC1068-200CG-ND	—	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068-200IG-ND	—	Quad Universal Filter Building Block, Ind. Temp.	28-SSOP	13.50	8.97	7.15
LTC1068CG-ND	9294B	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068CN-ND	9294B	Quad Universal Filter Building Block	24-Dip	12.00	7.97	6.40
LTC1068IG-ND	9294B	Quad Universal Filter Building Block, Ind. Temp.	28-SSOP	13.50	8.97	7.15
LTC1068IN-ND	9294B	Quad Universal Filter Building Block, Ind. Temp	24-Dip	13.13	8.72	6.95
LTC1069-1IS8-ND	—	8th Order Progressive Elliptic, Lowpass Filter	8-SOIC	10.25	6.81	5.45
LTC1069-6CS8-ND	—	8th Order Single Supply, Elliptic Lowpass Filter	8-SOIC	9.38	6.25	5.00
LTC1069-7CS8-ND	—	8th Order Linear Phase Lowpass Filter	8-SOIC	9.38	6.23	5.00
LTC1090ACN-ND	—	Single Chip 8-Channel 10-Bit Data Acquisition System	20-Dip	25.75	17.15	15.80
LTC1090CN-ND	—	Single Chip 8-Channel 10-Bit Data Acquisition System	20-Dip	17.50	11.65	9.90
LTC1091CN8-ND	—	Single Chip 2-Channel, 10-Bit Data Acquisition System	8-Dip	17.50	11.70	9.90
LTC1092CN8-ND	—	Single Chip 1-Channel, 10-Bit Data Acquisition System	8-Dip	17.50	11.65	9.90
LTC1093CN-ND	—	Single Chip 6-Chan., 10-Bit Data Acquisition System	16-Dip	17.50	11.65	9.90
LTC1094CN-ND	—	Single Chip 8-Chan., 10-Bit Data Acquisition System	20-Dip	17.50	11.65	9.90
LTC1096ACS8-ND	9210B	Micropower Sampling 8-Bit Serial I/O ADC	8-SOIC	6.75	4.50	3.60
LTC1096CS8-ND	9210B	Micropower Sampling 8-Bit Serial I/O ADC	8-SOIC	5.50	3.70	2.90
LTC1096LIS8-ND	—	Micropower Sampling 8-Bit Serial I/O ADC	8-SOIC	6.38	4.25	3.45
LTC1098CN8-ND	9210B	Micropower Sampling 8-Bit Serial I/O ADC	8-Dip	5.50	3.70	2.90
LTC1098CS8-ND	9210B	Micropower Sampling 8-Bit Serial I/O ADC	8-SOIC	5.50	3.70	2.90
LTC1099CN-ND	—	8-Bit, High Speed ADC with Sample and Hold	20-Dip	14.88	9.90	8.25
LTC1099CSW-ND	—	8-Bit, High Speed ADC with Sample and Hold	20-SOIC	19.38	12.90	10.70
LTC1100CN8-ND	9176B	Precision, Chopper-Stabilized Instrumentation Amp	8-Dip	11.25	7.50	6.45
LTC1100CSW-ND	9176B	Precision, Chopper-Stabilized Instrumentation Amp	16-SOIC	13.13	8.75	7.40
LTC1142CG-ND	9210B	Dual Step Down Switching Regulator	28-SSOP	11.25	7.50	6.00
LTC1143LCS-ND	9294B	Dual Step Down Switching Regulator	16-SOIC	8.25	5.48	4.60
LTC1143LCS-ADJ-ND	9294B	Dual Step Down Switching Regulator	16-SOIC	8.25	5.48	4.40
LTC1144CN8-ND	9210B	Switched-Capacitor Voltage Converter with Shutdown	8-Dip	4.50	3.00	2.50
LTC1144CS8-ND	9210B	Switched-Capacitor Voltage Converter with Shutdown	8-SOIC	4.63	3.10	2.55
LTC1144IS8-ND	9210B	Switched-Capacitor Voltage Converter with Shutdown	8-SOIC	5.38	3.57	2.95
LTC1147CN8-5-ND	9210B	5V, High Efficiency Step Down Regulator	8-Dip	5.13	3.41	2.65
LTC1147CS8-3.3-ND	9210B	3.3V, High Efficiency Step Down Regulator	8-SOIC	5.38	3.57	2.80
LTC1147CS8-5-ND	9210B	5V, High Efficiency Step Down Regulator	8-SOIC	5.38	3.57	2.80
LTC1147LCS8-ND	—	High Efficiency Step Down Regulator	8-SOIC	6.00	3.99	3.15
LTC1147LIS8-ND	—	High Efficiency Step Down Regulator	8-SOIC	6.63	4.40	3.40
LTC1148CN-ND	9210B	High Efficiency Synch. Step Down Regulator	14-Dip	7.88	5.25	4.50
LTC1148CS-ND	9210B	High Efficiency Synch. Step Down Regulator	14-SOIC	8.13	5.40	4.60
LTC1148CS-3.3-ND	9210B	3.3V, High Efficiency Synch. Step Down Regulator	14-SOIC	8.13	5.40	4.60
LTC1148CS-5-ND	9210B	5V, High Efficiency Synch. Step Down Regulator	14-SOIC	8.13	5.40	4.60
LTC1148HVCS-ND	9210B	High Efficiency Synch. Step Down Reg.	14-SOIC	8.50	5.65	4.80
LTC1148HVCS-5-ND	9210B	5V, High Efficiency Synch. Step Down Reg.	14-SOIC	8.50	5.65	4.80
LTC1148LCS-3.3-ND	9210B	3.3V, High Efficiency Synch. Step Down Regulator	14-SOIC	8.75	5.85	4.90
LTC1149CN-ND	9210B	High Efficiency Synch. Step Down Regulator	16-Dip	9.63	6.40	5.50
LTC1149CN-5-ND	9210B	5V, High Efficiency Synch. Step Down Regulator	16-Dip	9.63	6.40	5.50
LTC1149CS-ND	9210B	High Efficiency Synch. Step Down Regulator	16-SOIC	10.00	6.64	5.00
LTC1149CS-3.3-ND	9210B	3.3V, High Efficiency Synch. Step Down Regulator	16-SOIC	10.00	6.64	5.00
LTC1150CN8-ND	9176B	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	6.88	4.60	3.85
LTC1150CS8-ND	9176B	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	8.13	5.40	4.55
LTC1151CN8-ND	9210B	Dual, Zero-Drift Op Amp	8-Dip	10.75	7.15	5.95
LTC1151CSW-ND	9210B	Dual, Zero-Drift Op Amp	16-SOIC	12.50	8.35	6.95
LTC1152CN8-ND	9257B	Rail-to-Rail, In/Out, Zero-Drift Op Amp	8-Dip	6.00	4.00	3.25
LTC1152CS8-ND	9257B	Rail-to-Rail, In/Out, Zero-Drift Op Amp	8-SOIC	6.50	4.35	3.50
LTC1152IS8-ND	9275B	Rail-to-Rail, In/Out, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	7.25	4.82	3.95
LTC1153CN8-ND	9210B	Auto-Reset Electronic Circuit Breaker	8-Dip	3.75	2.50	2.10
LTC1153CS8-ND	9210B	Auto-Reset Electronic Circuit Breaker	8-SOIC	4.00	2.66	2.25
LTC1153IS8-ND	9210B	Auto-Reset Electronic Circuit Breaker	8-SOIC	4.88	3.24	2.75
LTC1154CN8-ND	9210B	Single High-Side MOSFET Driver	8-Dip	3.25	2.16	1.85
LTC1154CS8-ND	9210B	Single High-Side MOSFET Driver	8-SOIC	3.50	2.35	2.00
LTC1155CN8-ND	9176B	Dual High-Side MOSFET Driver	8-Dip	5.25	3.50	3.00
LTC1155CS8-ND	9176B	Dual High-Side MOSFET Driver	8-SOIC	5.63	3.75	3.20
LTC1156CN-ND	9176B	Quad High-Side MOSFET Driver	16-Dip	8.75	5.81	4.95
LTC1156CSW-ND	9176B	Quad High-Side MOSFET Driver	16-SOIC	9.38	6.25	5.35
LTC1157CS8-ND	9210B	Dual, 3.3V, High-Side MOSFET Driver	8-SOIC	4.75	3.16	2.65
LTC1159CS-ND	9257B	High Efficiency Synch. Step Down Switch Regulator	16-SOIC	9.00	6.00	4.90
LTC1159CS-3.3-ND	9257B	3.3V, High Effic. Synch. Step Down Switch Regulator	16-SOIC	9.00	6.00	4.90
LTC1163CS8-ND	9210B	Triple High-Side MOSFET Driver	8-SOIC	5.25	3.50	2.90
LTC1164-5CN-ND	9210B	8th Order, Low Power, Lowpass Filter	14-Dip	20.00	13.35	11.25
LTC1164-5CSW-ND	9210B	8th Order, Low Power, Lowpass Filter	16-SOIC	27.50	18.35	15.50
LTC1164-6CN-ND	9210B	8th Order, Low Power, Lowpass Filter	14-Dip	22.50	15.00	12.90
LTC1164-7CN-ND	9210B	8th Order, Low Power, Lowpass Filter, Linear Phase	14-Dip	20.00	13.35	11.25
LTC1164-7CSW-ND	9210B	8th Order, Low Power, Lowpass Filter, Linear Phase	16-SOIC	27.50	18.35	15.50
LTC1164-8CN-ND	9257B	8th Order, Low Power, Lowpass Filter, Ultra-Selective	14-Dip	30.00	20.00	17.25
LTC1164-8CSW-ND	9257B	8th Order, Low Power, Lowpass Filter, Ultra-Selective	16-SOIC	32.50	21.65	18.50
LTC1164CN-ND	9176B	Quad Universal Filter Building Block	24-Dip	15.00	10.00	8.40
LTC1164CSW-ND	9176B	Quad Universal Filter Building Block	24-SOIC	18.00	12.00	9.55
LTC1165CS8-ND	9210B	Triple High-Side MOSFET Driver	8-SOIC	5.25	3.50	2.90
LTC1174CN8-ND	9210B	Adj., Step Down and Inverting DC/DC Converter	8-Dip	6.50	4.35	3.60
LTC1174CN8-5-ND	9210B	5V, Step Down and Inverting DC/DC Converter	8-Dip	6.50	4.35	3.60
LTC1174CS8-ND	9210B	Adj., Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
LTC1174CS8-3.3-ND	9210B	3.3V, Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
LTC1174CS8-5-ND	9210B	5V, Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
LTC1174HVCN8-ND	9210B	Adj., Step Down and Inverting DC/DC Converter	8-Dip	7.50	5.00	4.10
LTC1174HVCS8-ND	9210B	Adj., Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8-3.3-ND	9210B	3.3V, Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8-5-ND	9210B	5V, Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
LTC1174IN8-ND	9210B	Adj., Step Down/Inverting DC/DC Converter, Ind. Temp.	8-Dip	7.50	5.00	4.00
LTC1196-1ACS8-ND	9210B	8-Bit, 600nS, 1MHz, Sampling ADC	8-SOIC	7.63	5.10	4.35
LTC1196-2ACS8-ND	9210B	8-Bit, 710nS, 1MHz, Sampling ADC	8-SOIC	5.50	3.70	3.15
LTC1196-2BCS8-ND	9210B	8-Bit, 710nS, 1MHz, Sampling ADC	8-SOIC	4.38	2.91	2.50
LTC1197CS8-ND	9294B	10-Bit, 500ksps ADC with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1197IS8-ND	9294B	10-Bit, 500ksps ADC with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1197LCMS8-ND	9294B	3V, 10-Bit, ADC with Shutdown	8-MSOP	5.50	3.66	2.95
LTC1197LCS8-ND	9294B	3V, 10-Bit, ADC with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1197LIS8-ND	9294B	3V, 10-Bit, ADC with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1198-2BCS8-ND	9210B	2-Channel, 8-Bit, Sampling ADC	8-SOIC	5.25	3.50	3.00
LTC1199CMS8-ND	—	10-Bit A/D Converter with Shutdown	8-MSOP	5.50	4.10	3.65
LTC1199CS8-ND	9294B	10-Bit A/D Converter with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1199IMS8-ND	—	10-Bit A/D Converter with Shutdown	8-MSOP	6.13	4.50	3.15
LTC1199IS8-ND	9294B	10-Bit A/D Converter with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1199LIMS8-ND	—	10-Bit A/D Converter with Shutdown	8-MSOP	6.13	4.50	3.15
LTC1199LIS8-ND	9294B	10-Bit A/D Converter with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1232CS8-ND	9176B	Microprocessor Supervisory Circuit with WDT	8-SOIC	3.63	2.41	1.95
LTC1235CN-ND	9176B	MPU Supervisor Circuit w/Battery Backup and WDT	16-Dip	6.88	4.60	3.80
LTC1235CSW-ND	9176B	MPU Supervisor Circuit w/Battery Backup and WDT	16-SOIC	7.50	5.00	4.15
LTC1250CN8-ND	9210B	Very Low Noise, Zero-Drift Bridge Amp	8-Dip	5.50	3.70	2.90
LTC1250CS8-ND	9210B	Very Low Noise, Zero-Drift Bridge Amp	8-SOIC	6.25	4.20	3.30
LTC1255CN8-ND	9210B	Dual 24V High Side MOSFET Driver	8-Dip	5.25	3.50	3.00
LTC1255CS8-ND	9210B	Dual 24V High Side MOSFET Driver	8-SOIC	5.63	3.75	3.20
LTC1255IS8-ND	9210B	Dual 24V High Side MOSFET Driver	8-SOIC	7.38	4.90	4.15
LTC1257CN8-ND	9210B	Complete Single Supply 12-Bit Volt Output DAC	8-Dip	8.38	5.60	4.45
LTC1257CS8-ND	9210B	Complete Single Supply 12-Bit Volt Output DAC	8-SOIC	8.88	5.90	4.75
LTC1257IN8-ND	9210B	Complete Single Supply 12-Bit Volt Output DAC	8-Dip	9.25	6.15	4.90
LTC1257IS8-ND	9210B	Complete Single Supply 12-Bit Volt Output DAC	8-SOIC	9.75	6.50	5.20
LTC1258CMS8-ND	—	Adj., Micropower LDO Bandgap Reference	8-MSOP	5.13	3.41	2.57
LTC1258CS8-ND	—	Adj., Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-2.5-ND	—	2.5V, Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-3-ND	—	3V, Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-4.1-ND	—	4.1V, Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-5-ND	—	5V, Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1261CS-ND	—	Adj., Switched-Capacitor Voltage Inverter	14-SOIC	4.50	3.00	2.60
LTC1261CS8-4-ND	—	4V, Switched-Capacitor Voltage Inverter	8-SOIC	3.75	2.49	1.90
LTC1261LCMS8-ND	—	Adj., Switched-Capacitor Voltage Inverter	8-MSOP	4.00	2.66	2.00
LTC1261LCS8-ND	—	Adj., Switched-Capacitor Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1262CN8-ND	9210B	12V, 30mA, Flash Memory DC/DC Converter	8-Dip	4.50	3.00	2.45
LTC1262CS8-ND	9257B	12V, 30mA, Flash Memory DC/DC Converter	8-SOIC	4.63	3.08	2.32
LTC1262IS8-ND	—	12V, 30mA, Flash Memory DC/DC Converter	8-SOIC	5.75	3.82	2.88
LTC1263CS8-ND	—	12V, 60mA Flash Memory DC/DC Converter	8-SOIC	7.00	4.65	3.50
LTC1264-7CN-ND	9210B	8th Order Phase Corrected Lowpass Filter	14-Dip	25.00	16.65	14.20
LTC1264-7CSW-ND	9210B	8th Order Phase Corrected Lowpass Filter	16-SOIC	31.25	20.85	17.65
LTC1264CN-ND	9210B	High Speed Quad Universal Filter Building Block	24-Dip	17.50	11.70	9.80
LTC1264CSW-ND	9210B	High Speed Quad Universal Filter Building Block	24-SOIC	20.50	13.70	10.90
LTC1265CS-ND	9257B	Adj., 1.2A High Effic., Step Down DC/DC Converter	14-SOIC	6.88	4.60	3.95
LTC1266ACS-ND	9257B	Synch. Regulator Controller for N/P Chan. MOSFETS	16-SOIC	9.13	6.06	5.20
LTC1266AIS-ND	—	Synch. Regulator Controller for N/P Chan. MOSFETS	16-SOIC	10.25	6.81	5.75
LTC1266CS-ND	9257B	Synch. Regulator Controller for N/P Chan. MOSFETS	16-SOIC	7.50	4.98	4.05
LTC1266CS-3.3-ND	9275B	3.3V Synch. Reg. Controller for N/P Chan. MOSFETS	16-SOIC	7.50	4.98	4.05
LTC1266IS-ND	—	Synch. Regulator Controller for N/P Chan. MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1266IS-3.3-ND	—	3.3V Synch. Reg. Controller for N/P Chan. MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1266IS-5-ND	—	5V Synch. Reg. Controller for N/P Chan. MOSFETS	16-SOIC	8.50	5.65	4.45

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LINEAR SERIES *(Continued)*

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★		
				1	25	100
LTC1272-3ACSW-ND	—	12-Bit, 3µS, 250kHz Sampling A/D Converter	24-SOIC	35.00	23.35	18.76
LTC1272-3CCN-ND	9176B	12-Bit, 3µS, 250kHz Sampling A/D Converter	24-Dip	20.63	13.75	11.05
LTC1272-3CCSW-ND	9176B	12-Bit, 3µS, 250kHz Sampling A/D Converter	24-SOIC	22.75	15.15	12.15
LTC1272-8CCN-ND	9176B	12-Bit, 8µS, 250kHz Sampling A/D Converter	24-Dip	15.00	10.00	8.00
LTC1273BCN-ND	9210B	12-Bit, 2.7µS, Sampling A/D Converter	24-Dip	23.50	15.65	12.55
LTC1273BCSW-ND	9210B	12-Bit, 2.7µS, Sampling A/D Converter	24-SOIC	25.88	17.25	13.80
LTC1274CSW-ND	9285B	12-Bit, 100ksps A/D Converter with Shutdown	24-SOIC	14.88	9.90	8.25
LTC1275BCN-ND	9210B	12-Bit, 2.7µS, Sampling A/D Converter	24-Dip	22.00	14.65	11.75
LTC1275BCSW-ND	9210B	12-Bit, 2.7µS, Sampling A/D Converter	24-SOIC	24.25	16.15	12.95
LTC1276BCN-ND	9210B	12-Bit, 2.7µS, Sampling A/D Converter	24-Dip	22.00	14.65	11.75
LTC1276BCSW-ND	9210B	12-Bit, 2.7µS, Sampling A/D Converter	24-SOIC	24.25	16.15	12.95
LTC1277CSW-ND	9285B	12-Bit, 100ksps A/D Converter with Shutdown	24-SOIC	15.63	10.40	8.70
LTC1278-4CN-ND	—	12-Bit, 400ksps, Sampling ADC with Shutdown	24-Dip	24.00	16.00	12.85
LTC1278-4ISW-ND	9210B	12-Bit, 400ksps, Sampling ADC with Shutdown	24-SOIC	27.50	18.35	14.70
LTC1278-5CSW-ND	9210B	12-Bit, 500ksps, Sampling ADC with Shutdown	24-SOIC	25.63	17.10	14.65
LTC1278-5ISW-ND	9210B	12-Bit, 500ksps, Sampling ADC with Shutdown	24-SOIC	29.38	19.60	15.70
LTC1279CG-ND	—	12-Bit, 600ksps, Sampling ADC with Shutdown.	24-SSOP	25.88	17.19	14.20
LTC1279CSW-ND	9257B	12-Bit, 600ksps, Sampling ADC with Shutdown	24-SOIC	25.50	16.94	13.95
LTC1282BCSW-ND	9210B	3V, 12-Bit, Sampling A/D Converter with Reference	24-SOIC	28.13	18.75	14.75
LTC1283CN-ND	9210B	3V, 10-Bit, Data Acquisition System	20-Dip	20.13	13.40	11.40
LTC1285CN8-ND	—	3V, 12-Bit, Micropower Sampling A/D Converter	8-Dip	11.88	7.90	6.50
LTC1285CS8-ND	—	3V, 12-Bit, Micropower Sampling A/D Converter	8-SOIC	12.50	8.35	6.95
LTC1286CN8-ND	9210B	12-Bit, Micropower Sampling A/D Converter	8-Dip	9.88	6.60	5.25
LTC1286CS8-ND	9210B	12-Bit, Micropower Sampling A/D Converter	8-SOIC	10.63	7.10	5.65
LTC1286IN8-ND	9210B	12-Bit, Micropower Sampling A/D Converter	8-Dip	12.38	8.25	6.55
LTC1288CN8-ND	9257B	3V, 12-Bit, Micropower Serial I/O Sampling ADC	8-Dip	11.88	7.90	6.50
LTC1288CS8-ND	9257B	3V, 12-Bit, Micropower Serial I/O Sampling ADC	8-SOIC	12.50	8.35	6.95
LTC1289CCSW-ND	9176B	3V, 12-Bit, Data Acquisition System	20-SOIC	41.38	27.60	22.06
LTC1290BCSW-ND	—	12-Bit, Data Acquisition System	20-SOIC	45.00	30.00	23.96
LTC1290CCN-ND	9176B	12-Bit, Data Acquisition System	20-Dip	30.00	20.00	15.95
LTC1290CCSW-ND	9176B	12-Bit, Data Acquisition System	20-SOIC	36.00	24.00	19.15
LTC1290CIN-ND	9176B	12-Bit, Data Acquisition System, Ind. Temp.	20-Dip	42.38	28.25	23.35
LTC1290CISW-ND	9176B	12-Bit, Data Acquisition System, Ind. Temp.	20-SOIC	42.38	28.25	23.35
LTC1290DCN-ND	9176B	12-Bit, Data Acquisition System	20-Dip	12.50	8.35	6.70
LTC1290DCSW-ND	9176B	12-Bit, Data Acquisition System	20-SOIC	21.75	14.50	11.35
LTC1291CCN8-ND	9210B	12-Bit, Data Acquisition System.	8-Dip	28.13	18.75	15.00
LTC1291DCN8-ND	9210B	12-Bit, Data Acquisition System.	8-Dip	18.13	12.10	9.50
LTC1292CCN8-ND	9210B	12-Bit, Data Acquisition System.	8-Dip	28.13	18.75	15.00
LTC1292DCN8-ND	9210B	12-Bit, Data Acquisition System.	8-Dip	18.13	12.10	9.50
LTC1293BCSW-ND	—	12-Bit, Data Acquisition System	16-SOIC	45.00	30.00	23.96
LTC1293CCN-ND	9176B	12-Bit, Data Acquisition System	16-Dip	30.00	20.00	15.95
LTC1293DCN-ND	9176B	12-Bit, Data Acquisition System	16-Dip	18.13	12.10	9.50
LTC1293DCSW-ND	—	12-Bit, Data Acquisition System	20-SOIC	21.75	14.50	11.35
LTC1294BCSW-ND	—	12-Bit, Data Acquisition System	20-SOIC	45.00	30.00	23.96
LTC1294CCN-ND	9176B	12-Bit, Data Acquisition System	20-Dip	28.13	18.75	15.00
LTC1294CCSW-ND	—	12-Bit, Data Acquisition System	20-SOIC	36.00	24.00	19.15
LTC1294DCN-ND	9176B	12-Bit, Data Acquisition System	20-Dip	18.13	12.10	9.50
LTC1294DCSW-ND	—	12-Bit, Data Acquisition System	20-SOIC	21.75	14.50	11.35
LTC1296BCN-ND	9176B	12-Bit, Data Acquisition System	20-Dip	24.38	16.25	13.00
LTC1296BCSW-ND	9176B	12-Bit, Data Acquisition System	20-SOIC	25.00	16.65	13.35
LTC1296CCN-ND	9176B	12-Bit, Data Acquisition System	20-Dip	17.38	11.60	9.25
LTC1296CCSW-ND	9176B	12-Bit, Data Acquisition System	20-SOIC	17.88	11.90	9.50
LTC1296DCN-ND	9176B	12-Bit, Data Acquisition System	20-Dip	15.88	10.60	8.45
LTC1296DCSW-ND	9176B	12-Bit, Data Acquisition System	20-SOIC	16.25	10.85	8.65
LTC1297DCN8-ND	9210B	12-Bit, Data Acquisition System.	8-Dip	21.75	14.50	11.40
LTC1298CN8-ND	9210B	12-Bit, Sampling A/D Converter	8-Dip	9.88	6.60	5.25
LTC1298CS8-ND	9210B	12-Bit, Sampling A/D Converter	8-SOIC	10.63	7.10	5.65
LTC1298IN8-ND	9210B	12-Bit, Sampling A/D Converter, Ind. Temp.	8-Dip	12.38	8.25	6.55
LTC1298IS8-ND	9210B	12-Bit, Sampling A/D Converter, Ind. Temp.	8-SOIC	13.25	8.85	7.05
LTC1314CS-ND	9257B	PCMCIA Switching Matrix	14-SOIC	4.38	2.95	2.35
LTC1315CG-ND	—	PCMCIA Switching Matrix	24-SSOP	6.25	4.15	3.35
LTC1318CSW-ND	9257B	Single, 5V, RS232/RS422 Transceiver/Receiver	24-SOIC	9.13	6.10	4.90
LTC1321CN-ND	9210B	RS485/RS232/EIA562 Transceiver/Receiver	24-Dip	8.75	5.85	4.65
LTC1321CSW-ND	9210B	RS485/RS232/EIA562 Transceiver/Receiver	24-SOIC	8.75	5.85	4.65
LTC1321ISW-ND	—	RS485/RS232/EIA562 Xcvr./Receiver, Ind. Temp.	24-SOIC	10.50	7.00	5.60
LTC1322CN-ND	9210B	RS485/RS232/EIA562 Transceiver/Receiver	24-Dip	10.00	6.65	5.35
LTC1322CSW-ND	9210B	RS485/RS232/EIA562 Transceiver/Receiver	24-SOIC	10.00	6.65	5.35
LTC1325CSW-ND	9257B	Battery Management System.	18-SOIC	13.75	9.15	7.35
LTC1326CMS8-ND	—	Micropower Precision Triple Supply Monitor	8-MSOP	4.63	3.08	2.45
LTC1326CMS8-2.5-ND	9294B	2.5V, Micropower Precision Triple Supply Monitor	8-MSOP	4.63	3.08	2.45
LTC1326CS8-ND	9294B	Micropower Precision Triple Supply Monitor	8-SOIC	4.38	2.91	2.35
LTC1326CS8-2.5-ND	9294B	2.5V, Micropower Precision Triple Supply Monitor	8-SOIC	4.38	2.91	2.35
LTC1327CG-ND	9210B	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-SSOP	9.50	6.35	5.00
LTC1327CNW-ND	9210B	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-Dip	8.75	5.85	4.70
LTC1327CSW-ND	9210B	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-SOIC	8.75	5.85	4.70
LTC1329CS8-10-ND	—	Micropower 8-Bit, Current Output DAC	8-SOIC	4.75	3.16	2.65
LTC1329CS8-50-ND	—	Micropower 8-Bit, Current Output DAC	8-SOIC	4.75	3.16	2.65
LTC1329IS8-50-ND	9294B	Micropower 8-Bit, Current Output DAC, Ind. Temp.	8-SOIC	5.88	3.91	3.25
LTC1334CG-ND	—	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SSOP	13.00	8.64	7.45
LTC1334CNW-ND	—	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-Dip	12.25	8.15	7.00
LTC1334CSW-ND	—	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SOIC	12.25	8.15	7.00
LTC1334ISW-ND	—	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SOIC	14.25	9.50	8.15
LTC1337CG-ND	9210B	5V, 3 Driver/5 Receiver RS232 Transceiver	28-SSOP	9.50	6.35	5.00
LTC1337CNW-ND	9210B	5V, 3 Driver/5 Receiver RS232 Transceiver	28-Dip	8.75	5.85	4.70
LTC1337CSW-ND	9210B	5V, 3 Driver/5 Receiver RS232 Transceiver	28-SOIC	8.75	5.85	4.70
LTC1338CG-ND	9210B	5V, 5 Driver/3 Receiver RS232 Transceiver	28-SSOP	10.13	6.75	5.65
LTC1338CSW-ND	9210B	5V, 5 Driver/3 Receiver RS232 Transceiver	28-SOIC	9.38	6.25	5.25
LTC1340CMS8-ND	9294B	Low Noise Varactor Driver	8-MSOP	6.00	4.00	3.40
LTC1340CS8-ND	9294B	Low Noise Varactor Driver	8-SOIC	5.50	3.66	3.15
LTC1343CGW-ND	9294B	Software Selectable Multiprotocol Transceiver	44-SSOP	23.50	15.65	13.40
LTC1343IGW-ND	9294B	Software Selectable Multiprotocol Transceiver	44-SSOP	27.00	17.93	14.40
LTC1344ACG-ND	—	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	6.82
LTC1344CG-ND	9294B	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	6.82
LTC1344IG-ND	9294B	Multiprotocol Cable Terminator	24-SSOP	15.63	10.38	8.35
LTC1345CNW-ND	9257B	Single Supply V.35 Differential Transceiver	28-Dip	13.88	9.25	7.40
LTC1345CSW-ND	9257B	Single Supply V.35 Differential Transceiver	28-SOIC	14.38	9.60	7.65
LTC1346ACSW-ND	9285B	10mbps DCE/DTE V.35 Transceiver	24-SOIC	12.38	8.25	7.10
LTC1347CNW-ND	9210B	5V, LP, RS232, 3 Driver/5 Receiver Transceiver	28-Dip	8.75	5.85	4.70
LTC1348CG-ND	9257B	3.3V/5V, LP, RS232, 3 Driver/5 Rcvr. Transceiver	28-SSOP	8.75	5.85	4.80
LTC1348CSW-ND	9257B	3.3V/5V, LP, RS232, 3 Driver/5 Rcvr. Transceiver	28-SOIC	8.13	5.45	4.50
LTC1348IG-ND	9257B	3.3V/5V, LP, RS232, 3 Driver/5 Rcvr. Transceiver	28-SSOP	10.13	6.75	5.80
LTC1348ISW-ND	9257B	3.3V/5V, LP, RS232, 3 Driver/5 Rcvr. Transceiver	28-SOIC	9.38	6.25	5.35
LTC1349CN-ND	9210B	5V, LP, RS232 3 Driver/5 Receiver Transceiver	28-Dip	8.75	5.85	4.70
LTC1349CSW-ND	9210B	5V, LP, RS232 3 Driver/5 Receiver Transceiver	28-SOIC	8.75	5.85	4.70
LTC1349ISW-ND	—	5V, LP, RS232 3 Driver/5 Receiver Transceiver	28-SOIC	9.63	6.40	5.20
LTC1350CG-ND	9210B	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28 SSOP	9.50	6.35	5.00
LTC1350IG-ND	9210B	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28-SSOP	10.38	6.90	5.50
LTC1380CGN-ND	—	8-Chan. CMOS Multiplexer with SMBus Interface	16-SSOP	6.50	4.32	3.35
LTC1380CS-ND	—	8-Chan. CMOS Multiplexer with SMBus Interface	16-SOIC	6.13	4.07	3.07
LTC1380IGN-ND	—	8-Chan. CMOS Multiplexer with SMBus Interface	16-SSOP	7.50	4.98	3.85
LTC1380IS-ND	—	8-Chan. CMOS Multiplexer with SMBus Interface	16-SOIC	6.88	4.57	3.55
LTC1382CN-ND	9210B	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown	18-Dip	6.50	4.35	3.40
LTC1382CSW-ND	9210B	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown	18-SOIC	6.50	4.35	3.40
LTC1383CN-ND	9210B	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	16-Dip	5.63	3.75	3.00
LTC1383CS-ND	9210B	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	16-SOIC	5.63	3.75	3.00
LTC1383IS-ND	9210B	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	16-SOIC	6.50	4.32	3.70
LTC1384CN-ND	9210B	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	18-Dip	6.50	4.35	3.40
LTC1384CSW-ND	9210B	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	18-SOIC	6.50	4.35	3.40
LTC1385CG-ND	9210B	3.3V, EIA/TIA-562, LP 2/Driver/2Rcvr. Transceiver.	20-SSOP	7.25	4.85	3.85
LTC1385CN-ND	9210B	3.3V, EIA/TIA-562, LP 2/Driver/2Rcvr. Transceiver	18-Dip	6.50	4.35	3.40
LTC1385CSW-ND	9210B	3.3V, EIA/TIA-562, LP 2/Driver/2Rcvr. Transceiver	18-SOIC	6.50	4.35	3.40
LTC1386CS-ND	9210B	3.3V, EIA/TIA-562, LP 2/Driver/2Rcvr. Transceiver	16-SOIC	5.63	3.75	3.00
LTC1387CG-ND	—	5V, Single RS232/RS485 Transceiver	20-SSOP	9.13	6.10	5.20
LTC1387CSW-ND	—	5V, Single RS232/RS485 Transceiver	20-SOIC	8.50	5.65	4.85
LTC1387IG-ND	—	5V, Single RS232/RS485 Transceiver, Ind. Temp.	20-SSOP	10.50	7.00	6.00
LTC1387ISW-ND	—	5V, Single RS232/RS485 Transceiver, Ind. Temp.	20-SOIC	9.75	6.50	5.60
LTC1390CN-ND	9257B	CMOS 8-to-1 Analog Multiplexer w/Serial Interface.	16-Dip	4.38	2.91	2.35
LTC1390CS-ND	9257B	CMOS 8-to-1 Analog Multiplexer w/Serial Interface	16-SOIC	4.63	3.10	2.45
LTC1391CS-ND	—	CMOS 8-to-1 Mux with Cascadable Serial Interface	16-SOIC	4.63	3.10	2.45
LTC1392CN8-ND	9257B	10-Bit Micropower Data Acquisition System	8-Dip	7.50	5.00	4.10
LTC1392CS8-ND	9257B	10-Bit Micropower Data Acquisition System	8-SOIC	7.63	5.10	4.20
LTC1392IN8-ND	9257B	10-Bit Micropower Data Acquisition System	8-Dip	8.88	5.90	4.85
LTC1400CS8-ND	—	12-Bit, 400ksps A/D Converter with Shutdown	8-SOIC	10.00	6.64	5.25
LTC1400IS8-ND	—	12-Bit, 400ksps ADC with Shutdown, Ind. Temp.	8-SOIC	11.13	7.39	5.85
LTC1401CS8-ND	—	12-Bit, 400ksps A/D Converter with Shutdown	8-SOIC	6.50	4.32	3.40
LTC1404CS8-ND	—	12-Bit, 600ksps A/D Converter with Shutdown	8-SOIC	10.50	6.98	5.50
LTC1404IS8-ND	—	12-Bit, 600ksps ADC with Shutdown, Ind. Temp.	8-SOIC	11.50	7.64	6.05
LTC1406CGN-ND	—	8-Bit, 20msps Sampling A/D Converter	24-SSOP	6.50	4.32	3.40
LTC1406IGN-ND	—	8-Bit, 20msps Sampling A/D Converter	24-SSOP	7.00	4.65	3.70
LTC1410CG-ND	9285B	12-Bit, 1.25msps Sampling A/D Converter	28-SSOP	22.25	14.78	11.15
LTC1410CSW-ND	9285B	12-Bit, 1.25msps Sampling ADC, Ind. Temp.	28-SOIC	21.25	14.11	10.65
LTC1411CG-ND	—	Single 14-Bit, 2.5MSPS A/D Converter	36-SSOP	38.25	25.50	21.85
LTC1411IG-ND	—	Single 14-Bit, 2.5MSPS A/D Converter	36-SSOP	42.50	28.35	24.30
LTC1412CG-ND	—	12-Bit, 3msps Sampling A/D Converter	28-SSOP	21.38	14.20	10.69
LTC1412IG-ND	—	12-Bit 3msps Sampling ADC, Ind. Temp.	28-SSOP	23.38	15.53	11.69
LTC1414CGN-ND	—	14-Bit, 2.2msps Sampling A/D Converter	28-SSOP	34.00	22.65	18.15
LTC1414IGN-ND	—	14-Bit, 2.2msps Sampling ADC, Ind. Temp.	28-SSOP	38.25	25.50	21.85
LTC1415CG-ND	9285B	12-Bit, 1.25msps Sampling A/D Converter	28-SSOP	22.25	14.78	11.15
LTC1415CSW-ND	9285B	12-Bit, 1.25msps Sampling A/D Converter	28-SOIC	21.25	14.11	10.65
LTC1415IG-ND	9285B	12-Bit, 1.25msps Sampling ADC, Ind. Temp.	28-SSOP	24.25	16.11	12.15
LTC1415ISW-ND	9285B	12-Bit, 1.25msps Sampling ADC, Ind. Temp.	28-SOIC	23.25	15.44	11.65
LTC1416CG-ND	—	14-Bit, 400ksps Sampling A/D Converter	28-SSOP	14.75	9.80	7.40
LTC1416IG-ND	—	14-Bit, 400ksps Sampling ADC, Ind. Temp.	28-SSOP	15.75	10.46	7.88
LTC1417ACGN-ND	—	14-Bit, 400ksps Sampling A/D Converter	16-SSOP	20.00	13.28	10.00
LTC1417CGN-ND	—	14-Bit, 400ksps Sampling A/D Converter	16-SSOP	16.25	10.79	8.15
LTC1418ACG-ND	—	14-Bit, 200ksps ADC, Serial/Parallel I/O	28-SSOP	22.25	14.78	11.15
LTC1418ACN-ND	—	14-Bit, 200ksps ADC, Serial/Parallel I/O	28-Dip	21.75	14.45	10.90
LTC1418AIG-ND	—	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp	28-SSOP	23.88	15.86	11.95
LTC1418AIN-ND	—	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp	28-Dip	23.38	15.53	11.70
LTC1418CG-ND	—	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp	28-SSOP	17.25	11.46	8.65
LTC1418CN-ND	—	14-Bit, 200ksps ADC, Serial/Parallel I/O	28-Dip	16.75	11.13	8.40
LTC1418IG-ND	—	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp	28-SSOP	18.88	12.54	9.45
LTC1418IN-ND	—	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp.	28-Dip	18.38	12.21	9.20
LTC1419ACG-ND	—	14-Bit, 800ksps Sampling A/D Converter	28-SSOP	54.38	36.11	27.20
LTC1419ACSW-ND	—	14-Bit, 800ksps Sampling A/D Converter	28-SOIC	53.50	35.53	26.75
LTC1419AIG-ND	—	14-Bit 800ksps Sampling A/D Converter, Ind. Temp	28-SSOP	62.50	41.50	31.25
LTC1419CG-ND	—	14-Bit, 800ksps Sampling A/D Converter	28-SSOP	32.50	21.58	16.25
LTC1419CSW-ND	—	14-Bit, 800ksps Sampling A/D Converter	28-SOIC	24.51	21.42	16.13
LTC1419IG-ND	—	14-Bit, 800ksps Sampling A/D Converter, Ind. Temp.	28-SSOP	36.25	24.07	18.15
LTC1421CG-ND	—	Hot Swap Controller	24-SSOP	10.38	6.90	5.90
LTC1421CG-2.5-ND	—	2.5V Hot Swap Controller	24-SSOP	10.38	6.90	5.90
LTC1421CSW-ND	—	Hot Swap Controller	24-SOIC	9.63	6.40	5.50
LTC1421CSW-2.5-ND	—	2.5V Hot Swap Controller	24-SOIC	9.63	6.40	5.50
LTC1422CN8-ND	9294B	8-Pin Hot Swap Controller	8-Dip	5.13	3.41	2.65
LTC1422CS8-ND	—	8-Pin Hot Swap Controller	8-SOIC	5.25	3.50	2.95
LTC1422IN8-ND	9294B	8-Pin Hot Swap Controller	8-Dip	5.88	3.91	3.05
LTC1422IS8-ND	—	8-Pin Hot Swap Controller	8-SOIC	6.00	4.00	3.40
LTC1426CMS8-ND	—	6-Bit, Dual PWM D/A Converter	8-MSOP	6.75	4.49	4.05
LTC1426CS8-ND	—	6-Bit, Dual PWM D/A Converter	8-SOIC	6.25	4.15	3.85
LTC1427CS8-50-ND	9294B	10-Bit, D/A Converter with SMBus Interface.	8-SOIC	6.13	4.07	3.20
LTC1430ACGN-ND	—	Step Down Switching Regulator Controller	16-SSOP	7.75	5.15	3.90
LTC1430ACS-ND	—	Step Down Switching Regulator Controller	16-SOIC	7.13	4.74	3.59
LTC1430ACS8-ND	—	Step Down Switching Regulator Controller	8-SOIC	6.25	4.15	3.13
LTC1430CS-ND	9257B	Step Down Switching Regulator Controller	16-SOIC	7.13	4.74	3.60
LTC1430IS-ND	9294B	Step Down Switching Regulator Controller	16-SOIC	8.88	5.90	4.45
LTC1433CGN-ND	9285B	Current Mode Step Down DC/DC Converter	16-SSOP	7.38	4.90	3.95
LTC1435ACS-ND	—	Low Noise Synch. Step Down Switching Regulator	16-SOIC	8.38	5.57	4.80
LTC1435AIS-ND	—	Low Noise Synch. Step Down Switching Regulator	16-SOIC	10.50	6.98	6.00
LTC1435CG-ND	—	Low Noise Synch. Step Down Switching Regulator	16-SSOP	9.00	5.98	4.50
LTC1435CS-ND	9285B	Low Noise Synch. Step Down Switching Regulator	16-SOIC	8.38	5.57	4.80
LTC1435IS-ND	—	Low Noise Synch. Step Down Switching Regulator	16-SOIC	10.50	6.98	5.25
LTC1436ACGN-PLL-ND	—	Low Noise Synch. Step Down Switching Regulator	24-SSOP	10.00	6.64	5.70
LTC1436AIGN-PLL-ND	—	Low Noise Synch. Step Down Switching Regulator	24-SSOP	12.50	8.30	6.65
LTC1438CG-ADJ-ND	9285B	Dual, Synch. Step Down Switching Regulator	28-SSOP	14.00	9.30	7.50
LTC1438IG-ND	—	Dual, Synch. Step Down Switching Regulator	28-SSOP	16.88	11.21	9.65
LTC1438IG-ADJ-ND	9285B	Dual, Synch. Step Down Switching Regulator	28-SSOP	16.88	11.21	9.00
LTC1439CG-ND	—	Dual, Synch. Step Down Switching Regulator	36 SSOP	15.38	10.21	8.75
LTC1440CMS8-ND	—	Ultra Low Power Single Comparator w/Reference	8-MSOP	3.13	2.15	1.70
LTC1440CN8-ND	9285B	Ultra Low Power Single Comparator w/Reference	8-Dip	2.75	1.85	1.50
LTC1440CS8-ND	9285B	Ultra Low Power Single Comparator w/Reference	8-SOIC	2.75	1.85	1.50

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Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LTC1440IN8-ND	9285B	Ultra Low Power Single Comparator w/Ref., Ind. Temp.	8-Dip	3.25	2.20	1.75
LTC1440IS8-ND	9285B	Ultra Low Power Single Comparator w/Ref., Ind. Temp.	8-SOIC	3.25	2.20	1.75
LTC1441CS8-ND	—	Ultra Low Power Dual Comparator w/ Reference	8-SOIC	3.38	2.25	1.85
LTC1441IS8-ND	9285B	Ultra Low Power Dual Comparator w/Ref., Ind. Temp.	8-SOIC	4.00	2.66	2.20
LTC1442CN8-ND	—	Ultra Low Power Dual Comparator with Reference	8-Dip	4.13	2.74	2.25
LTC1442CS8-ND	9285B	Ultra Low Power Dual Comparator with Reference	8-SOIC	4.13	2.74	2.25
LTC1442IN8-ND	9285B	Ultra Low Power Dual Comparator w/Ref., Ind. Temp.	8-Dip	4.88	3.24	2.70
LTC1442IS8-ND	9285B	Ultra Low Power Dual Comparator w/Ref., Ind. Temp.	8-SOIC	4.88	3.24	2.70
LTC1443CS-ND	9275B	Ultra Low Power Quad Comparator with Reference	16-SOIC	4.75	3.16	2.50
LTC1443IN-ND	9285B	Ultra Low Power Quad Comparator w/Ref., Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1443IS-ND	9285B	Ultra Low Power Quad Comparator w/Ref., Ind. Temp.	16-SOIC	5.50	3.66	3.05
LTC1444CN-ND	—	Ultra Low Power Quad Comparator with Reference	16-Dip	4.75	3.16	2.50
LTC1444CS-ND	—	Ultra Low Power Quad Comparator with Reference	16-SOIC	4.75	3.16	2.50
LTC1444IN-ND	9285B	Ultra Low Power Quad Comparator w/Ref., Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1444IS-ND	9285B	Ultra Low Power Quad Comparator w/Ref., Ind. Temp.	16-SOIC	5.50	3.66	3.05
LTC1445IN-ND	9285B	Ultra Low Power Quad Comparator w/Ref., Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1445IS-ND	9285B	Ultra Low Power Quad Comparator w/Ref., Ind. Temp.	16-SOIC	5.50	3.66	3.05
LTC1446CN8-ND	—	Dual 12-Bit Rail-to-Rail Micropower D/A Converter	8-Dip	12.00	8.00	6.55
LTC1446CS8-ND	—	Dual 12-Bit Rail-to-Rail Micropower D/A Converter	8-SOIC	12.13	8.10	6.65
LTC1446IN8-ND	—	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-Dip	13.50	9.00	7.40
LTC1446IS8-ND	—	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-SOIC	13.63	9.10	7.45
LTC1446LCS8-ND	—	Dual 12-Bit Rail-to-Rail Micropower D/A Converter	8-SOIC	13.38	8.90	7.65
LTC1446LIS8-ND	—	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-SOIC	15.00	10.00	8.60
LTC1448CN8-ND	—	Dual 12-Bit Rail-to-Rail Micropower D/A Converter	8-Dip	12.00	8.00	6.55
LTC1448CS8-ND	—	Dual 12-Bit Rail-to-Rail Micropower D/A Converter	8-SOIC	12.13	8.10	6.65
LTC1448IN8-ND	—	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-Dip	13.50	9.00	7.40
LTC1448IS8-ND	—	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-SOIC	13.63	9.10	7.45
LTC1450CG-ND	—	Parallel Input 12-Bit R/R Micropower DAC	24-SSOP	10.63	7.10	6.10
LTC1450LCG-ND	—	Parallel Input 12-Bit R/R Micropower DAC	24-SSOP	11.25	7.50	6.20
LTC1451CN8-ND	9257B	12-Bit, Voltage Out, R/R Micropower D/A Converter	8-Dip	8.63	5.75	4.93
LTC1451CS8-ND	9257B	12-Bit, Voltage Out, R/R Micropower D/A Converter	8-SOIC	9.13	6.08	5.21
LTC1451IN8-ND	9257B	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp.	8-Dip	9.38	6.25	5.36
LTC1451IS8-ND	9257B	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp.	8-SOIC	9.88	6.58	5.64
LTC1452CN8-ND	9257B	12-Bit, Voltage Out, R/R Micropower D/A Converter	8-Dip	7.63	5.07	4.35
LTC1452CS8-ND	9257B	12-Bit, Voltage Out, R/R Micropower D/A Converter	8-SOIC	8.13	5.40	4.65
LTC1452IS8-ND	9257B	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp.	8-SOIC	8.88	5.90	5.10
LTC1453CN8-ND	9257B	12-Bit, Voltage Out, R/R Micropower D/A Converter	8-Dip	8.38	5.60	4.80
LTC1453CS8-ND	9257B	12-Bit, Voltage Out, R/R Micropower D/A Converter	8-SOIC	8.88	5.90	5.10
LTC1453IN8-ND	9257B	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp.	8-Dip	9.13	6.06	5.20
LTC1453IS8-ND	9257B	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp.	8-SOIC	9.63	6.40	5.50
LTC1454CN-ND	—	Dual 12-Bit, Voltage Out, R/R Micropower DAC	16-Dip	12.38	8.25	7.10
LTC1454CS-ND	—	Dual 12-Bit, Voltage Out, R/R Micropower DAC	16-SOIC	12.50	8.35	7.15
LTC1454LCN-ND	—	Dual 12-Bit, Voltage Out, R/R Micropower DAC	16-Dip	13.63	9.10	7.80
LTC1454LCS-ND	—	Dual 12-Bit, Voltage Out, R/R Micropower DAC	16-SOIC	13.75	9.15	7.85
LTC1454IS-ND	—	Dual 12-Bit, V. Out, R/R Micropower DAC, Ind. Temp.	16-SOIC	14.00	9.35	8.00
LTC1456CN8-ND	—	Single 12-Bit, V. Out, R/R Micropower DAC, w/Clear	8-Dip	8.63	5.75	4.90
LTC1456CS8-ND	—	Single 12-Bit, V. Out, R/R Micropower DAC, w/Clear	8-SOIC	9.13	6.10	5.20
LTC1458CG-ND	9285B	Quad 12-Bit, Voltage Out, R/R Micropower DAC	28-SSOP	24.38	16.25	13.20
LTC1458CSW-ND	9285B	Quad 12-Bit, Voltage Out, R/R Micropower DAC	28-SOIC	22.88	15.25	12.35
LTC1458IG-ND	—	Quad 12-Bit, V., R/R Micropower DAC, Ind. Temp.	28-SSOP	28.75	19.09	15.35
LTC1458ISW-ND	—	Quad 12-Bit, V., R/R Micropower DAC, Ind. Temp.	28-SOIC	27.00	17.93	14.40
LTC1458LCG-ND	—	Quad 12-Bit, Voltage Out, R/R Micropower DAC	28-SSOP	26.88	17.90	15.35
LTC1458LCSW-ND	9285B	Quad 12-Bit, Voltage Out, R/R Micropower DAC	28-SOIC	25.25	16.85	14.40
LTC1458LIG-ND	—	Quad 12-Bit, Voltage Out, R/R Micropower DAC	28-SSOP	31.63	21.00	16.86
LTC1470CS8-ND	9257B	Single PCMCIA Protected 3.3V/5V Vcc Switch	8-SOIC	4.50	3.00	2.60
LTC1470ES8-ND	—	Single PCMCIA Protected 3.3V/5V Vcc Switch *NEW!*	8-SOIC	5.38	3.57	2.75
LTC1471CS-ND	9257B	Dual PCMCIA Protected 3.3V/5V Vcc Switch	16-SOIC	7.50	5.00	4.29
LTC1472CS-ND	9257B	Protected PCMCIA Vcc/VPP Switching Matrix	16-SOIC	6.25	4.15	3.55
LTC1473CGN-ND	—	Dual Power Path Switch Driver, .150 Wide Body	16-SSOP	7.13	4.74	3.80
LTC1473LCGN-ND	—	Dual Power Path Switch Driver, .150 Wide Body	16-SSOP	7.13	4.74	3.80
LTC1474CMS8-ND	—	Adj. High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-3.3-ND	—	3.3V, High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-5-ND	—	5V, High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CS8-ND	—	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474CS8-3.3-ND	—	3.3V, High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474CS8-5-ND	—	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474IS8-ND	—	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-3.3-ND	—	3.3V, High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-5-ND	—	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1475CMS8-ND	—	Adj. High Efficiency, Step Down DC/DC Converter	8-MSOP	7.75	5.15	4.15
LTC1475CS8-5-ND	—	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	7.13	4.74	3.80
LTC1475IS8-ND	—	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	8.50	5.65	4.85
LTC1477CS8-ND	9285B	Single Protected High-Side Switch	8-SOIC	6.25	4.15	3.50
LTC1478CS-ND	9285B	Dual Protected High-Side Switch	16-SOIC	10.00	6.65	5.55
LTC1479IG-ND	—	Power Path Controller for Dual Battery System	36-SSOP	17.25	11.46	8.63
LTC1480CN8-ND	9257B	3.3V, Ultra Low Power RS485 Transceiver	8-Dip	4.75	3.16	2.65
LTC1480CS8-ND	9257B	3.3V, Ultra Low Power RS485 Transceiver	8-SOIC	5.13	3.41	2.75
LTC1480IS8-ND	9257B	3.3V, Ultra Low Power RS485 Transceiver, Ind. Temp.	8-SOIC	6.63	4.40	3.55
LTC1481CN8-ND	9257B	Ultra Low Power RS485 Transceiver w/Shutdown	8-Dip	2.75	1.85	1.45
LTC1481CS8-ND	9257B	Ultra Low Power RS485 Transceiver w/Shutdown	8-SOIC	3.38	2.25	1.80
LTC1481IS8-ND	9257B	Ultra Low Power RS485 Transceiver w/Shutdown	8-SOIC	4.38	2.91	2.40
LTC1482CMS8-ND	—	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-MSOP	4.88	3.25	2.55
LTC1482CN8-ND	—	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-Dip	4.00	2.66	2.10
LTC1482CS8-ND	—	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-SOIC	4.13	2.75	2.15
LTC1483CN8-ND	9257B	Ultra Low Power, Low EMI RS485 Transceiver	8-Dip	2.75	1.85	1.45
LTC1483CS8-ND	9257B	Ultra Low Power, Low EMI RS485 Transceiver	8-SOIC	3.38	2.25	1.90
LTC1483IS8-ND	9257B	Ultra Low Power, Low EMI RS485 Transceiver	8-SOIC	4.38	2.91	2.40
LTC1484CMS8-ND	—	Low Power RS485 Transceiver w/Receiver Fail Safe	8-MSOP	4.25	2.85	2.20
LTC1484CN8-ND	—	Low Power RS485 Transceiver w/Receiver Fail Safe	8-Dip	3.38	2.25	1.75
LTC1484CS8-ND	—	Low Power RS485 Transceiver w/Receiver Fail Safe	8-SOIC	3.50	2.35	1.80
LTC1484IS8-ND	—	LP RS485 Transceiver w/Receiver Fail Safe, Ind. Temp.	8-SOIC	4.63	3.10	2.45
LTC1485CN8-ND	9210B	Differential Bus Transceiver	8-Dip	3.00	2.00	1.70
LTC1485CS8-ND	9210B	Differential Bus Transceiver	8-SOIC	3.38	2.25	1.90
LTC1487CN8-ND	9257B	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance	8-Dip	2.75	1.85	1.55
LTC1487CS8-ND	9257B	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance	8-SOIC	3.38	2.25	1.90
LTC1502CMS8-3.3-ND	—	Single Cell to 3.3V Regulated Charge Pump DC/DC Converter	8-MSOP	4.13	2.74	2.07
LTC1502CS8-3.3-ND	—	Single Cell to 3.3V Regulated Charge Pump DC/DC Converter	8-SOIC	3.75	2.49	1.90
LTC1503CMS8-2-ND	—	2V Inductorless Step-Down DC/DC Converter	8-MSOP	4.00	2.66	2.00
LTC1503CS8-1.8-ND	—	1.8V Inductorless Step-Down DC/DC Converter	8-SOIC	3.63	2.41	1.82
LTC1503CS8-2-ND	—	2V Inductorless Step-Down DC/DC Converter	8-SOIC	3.63	2.41	1.82
LTC1504ACS8-ND	—	Adj. Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504ACS8-3.3-ND	—	3.3V Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504CS8-ND	—	Adj. Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504CS8-3.3-ND	—	3.3V, Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1514CS8-3.3-ND	—	3.3V, Step Up/Down Switch-Cap DC/DC Conv.	8-SOIC	6.50	4.35	3.70
LTC1514CS8-5-ND	—	5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1514IS8-3.3-ND	9294B	3.3V, Step Up/Down Switch-Cap DC/DC Conv.	8-SOIC	7.88	5.25	4.50
LTC1514IS8-5-ND	9294B	5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1515CS8-3.3/5-ND	—	3.3V/5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1515CS8-3/5-ND	—	3V/5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1515IS8-ND	9294B	Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1515IS8-3.3/5-ND	9294B	3.3V/5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1515IS8-3/5-ND	9294B	3V/5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1516CS8-ND	9285B	Regulated 5V Charge Pump DC/DC Converter	8-SOIC	6.25	4.15	3.55
LTC1517CS5-3.3-ND	—	Regulated 3.3V Charge Pump DC/DC Converter	SOT-23-5	3.75	2.50	2.15
LTC1517CS5-5-ND	—	Regulated 5V Charge Pump DC/DC Converter	SOT-23-5	3.75	2.50	2.15
LTC1517ES5-3.3-ND	—	Regulated 3.3V Charge Pump DC/DC Converter	SOT-23-5	4.00	2.66	2.10
LTC1517ES5-5-ND	—	Regulated 5V Charge Pump DC/DC Converter	SOT-23-5	4.00	2.66	2.10
LTC1518CS-ND	—	Hi-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	10.13	6.73	5.80
LTC1518IS-ND	—	Hi-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	11.63	7.75	6.20
LTC1519CS-ND	—	Hi-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	10.13	6.75	5.80
LTC1519IS-ND	—	Hi-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	11.63	7.75	6.20
LTC1522CMS8-ND	—	Regulated 5V Charge Pump DC/DC Converter	8-MSOP	3.75	2.50	2.15
LTC1522CS8-ND	—	Regulated 5V Charge Pump DC/DC Converter	8-SOIC	3.25	2.16	1.85
LTC1530CS8-ND	—	Adj. Synchronous Switching Regulator Controller	8-SOIC	6.25	4.15	3.15
LTC1530CS8-3.3-ND	—	3.3V Synchronous Switching Regulator Controller	8-SOIC	6.25	4.15	3.15
LTC1530IS8-ND	—	Adj. Synchronous Switching Regulator Controller	8-SOIC	6.88	4.57	3.50
LTC1531CSW-ND	—	Self-Powered Isolated Comparator	28-SOIC	9.38	6.23	4.69
LTC1536CMS8-ND	—	Triple Supply Monitor for PCI Applications	8-MSOP	5.88	3.91	3.35
LTC1536CS8-ND	—	Triple Supply Monitor for PCI Applications	8-SOIC	5.00	3.35	2.85
LTC1540CDD-ND	—	Nanopower Comparator with Reference *NEW!*	8-DFN	3.63	2.41	1.95
LTC1540CMS8-ND	—	Nanopower Comparator with Reference	8-MSOP	3.38	2.25	1.85
LTC1540CS8-ND	9294B	Nanopower Comparator with Reference	8-SOIC	3.00	2.00	1.65
LTC1540IS8-ND	9294B	Nanopower Comparator with Reference	8-SOIC	3.50	2.33	1.90
LTC1542CMS8-ND	—	Micropower Op Amp, Comparator and Reference	8-MSOP	4.38	2.91	2.30
LTC1542CS8-ND	—	Micropower Op Amp, Comparator and Reference	8-SOIC	3.75	2.49	1.95
LTC1543CG-ND	—	Software Selectable Multiprotocol Transceiver	28-SSOP	14.88	9.88	7.45
LTC1544CG-ND	—	Software Selectable Multiprotocol Transceiver	28-SSOP	12.25	8.14	6.15
LTC1545CG-ND	—	Software Selectable Multiprotocol Transceiver	36-SSOP	14.38	9.55	7.20
LTC1550CGN-ND	—	Switched Capacitor-Regulated Voltage Inverter	16-SSOP	5.25	3.49	2.80
LTC1550LCGN-ND	—	Switched Capacitor-Regulated Voltage Inverter	16-SSOP	4.00	2.66	2.00
LTC1550LCMS8-ND	—	Switched Capacitor-Regulated Voltage Inverter	8-MSOP	4.00	2.66	2.00
LTC1550LCS8-ND	—	Switched Capacitor-Regulated Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1551CS8-4.1-ND	—	4.1V Switched Capacitor-Regulated Voltage Inverter	8-SOIC	4.25	2.85	2.40
LTC1551LCMS8-ND	—	Switched Capacitor-Regulated Voltage Inverter	8-MSOP	4.00	2.66	2.00
LTC1551LCS8-ND	—	Switched Capacitor-Regulated Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1553CG-ND	—	5-Bit, Programmable Synch. Switching Regulator Controller for Pentium II Processor	20 SSOP	8.38	5.57	4.19
LTC1555CGN-ND	9294B	SIM Power Supply and Level Translator	16-SSOP	5.38	3.60	3.10
LTC1555IGN-ND	9294B	SIM Power Supply and Level Translator	16-SSOP	6.50	4.32	3.70
LTC1556CGN-ND	9294B	SIM Power Supply & Level Translator w/LDO Reg	20-SSOP	6.25	4.15	3.60
LTC1556IGN-ND	9294B	SIM Power Supply & Level Translator w/LDO Reg	20-SSOP	7.75	5.15	4.45
LTC1558CGN-3.3-ND	—	3.3V, Backup Battery Controller w/Program. Output	16-SSOP	5.25	3.49	2.80
LTC1558CGN-5-ND	—	5V, Backup Battery Controller w/Program. Output	16-SSOP	5.25	3.49	2.80
LTC1558CS-3.3-ND	—	3.3V, Backup Battery Controller w/Program. Output	16-SOIC	5.00	3.32	2.65
LTC1558CS-5-ND	—	5V, Backup Battery Controller w/Program. Output	16-SOIC	5.00	3.32	2.65
LTC1558CS8-3.3-ND	—	3.3V, Backup Battery Controller w/Program. Output	8-SOIC	4.75	3.16	2.55
LTC1558CS8-5-ND	—	5V, Backup Battery Controller w/Program. Output	8-SOIC	4.75	3.16	2.55
LTC1559CGN-3.3-ND	—	3.3V, Backup Battery Controller with Fixed Output	16-SSOP	5.25	3.49	2.80
LTC1559CGN-5-ND	—	5V, Backup Battery Controller with Fixed Output	16-SSOP	5.25	3.49	2.80
LTC1559CS8-3.3-ND	—	3.3V, Backup Battery Controller with Fixed Output	8-SOIC	4.75	3.16	2.55
LTC1559CS8-5-ND	—	5V, Backup Battery Controller with Fixed Output	8-SOIC	4.75	3.16	2.55
LTC1560-1CS8-ND	—	5th Order, Continuous Time, Low Pass Elliptic Filter	8-SOIC	9.13	6.06	4.85
LTC1560-1IS8-ND		5th Order, Continuous Time, Low Pass Elliptic Filter	8-SOIC	10.25	6.81	5.45
LTC1562ACG-ND	—	Low Distortion Active RC Quad Universal Filter	20-SSOP	25.00	16.60	12.50
LTC1562CG-ND	—	Low Distortion Active RC Quad Universal Filter	20-SSOP	19.13	12.70	9.57
LTC1562CG-2-ND	—	2V, Low Distortion Active RC Quad Universal Filter	20-SSOP	19.13	12.70	9.57
LTC1564CG-ND	—	10-150kHz Digitally Controlled Antialiasing Filter and 4-Bit Programmable Gain Amp	16-SSOP	19.00	12.62	9.50
LTC1564IG-ND	—	10-150kHz Digitally Controlled Antialiasing Filter and 4-Bit Programmable Gain Amp	16-SSOP	21.88	14.53	10.94
LTC1565-31CS8-ND	—	650KHz, 7th Order, Continuous Time Low Pass Filter	8-SOIC	8.00	5.32	4.00
LTC1565-31CS8TR-ND	—	650KHz, 7th Order, Continuous Time Low Pass Filter	8-SOIC	9506.25/2,500		
LTC1565-31IS8-ND	—	650KHz, 7th Order, Continuous Time Low Pass Filter	8-SOIC	9.25	6.15	4.63
LTC1565-31IS8TR-ND	—	650KHz, 7th Order, Continuous Time Low Pass Filter	8-SOIC	10968.75/2,500		
LTC1569CS8-6-ND	—	10th Order Linear Phase Low Pass Filter	8-SOIC	11.50	7.64	5.90
LTC1569CS8-7-ND	—	10th Order Linear Phase Low Pass Filter	8-SOIC	12.25	8.14	6.30
LTC1574CS-ND	9257B	Adjustable CMOS Step Down, DC/DC Converter	16-SOIC	8.50	5.65	4.85
LTC1574CS-5-ND	9257B	5V, CMOS Step Down, DC/DC Converter	16-SOIC	8.50	5.65	4.85
LTC1590CN-ND	—	Dual 12-Bit, Serial Input, Current Output DAC	16-Dip	12.13	8.06	6.65
LTC1590CS-ND	—	Dual 12-Bit, Serial Input, Current Output DAC	16-SOIC	12.38	8.22	6.80
LTC1590IS-ND	—	Dual 12-Bit, Serial Input, Current Output DAC	16-SOIC	13.63	9.05	7.50
LTC1591CG-ND	—	Parallel 14-Bit, Multiplying Current Output DAC	28-SSOP	20.00	13.28	10.00
LTC1591IG-ND	—	Parallel 14-Bit, Multiplying Current Output DAC	28-SSOP	23.75	15.77	11.90
LTC1592ACG-ND	—	16-Bit Softspan D/A Converter	16-SSOP	55.63	36.94	29.65
LTC1592BCG-ND	—	16-Bit Softspan D/A Converter	16-SSOP	29.63	19.68	15.80
LTC1594CS-ND	9285B	4-Channel, 12-Bit, 5V, Sampling Serial ADC	16-SOIC	11.25	7.47	6.00
LTC1594IS-ND	9285B	4-Channel, 12-Bit, 5V, Sampling Serial ADC	16-SOIC	13.00	8.64	6.95
LTC1594LCS-ND	9285B	4-Channel, 12-Bit, 5V, Sampling Serial ADC	16-SOIC	11.25	7.47	6.00
LTC1594LIS-ND	9285B	4-Channel, 12-Bit, 5V, Sampling Serial ADC	16-SOIC	13.00	8.64	6.95
LTC1595ACN8-ND	—	16-Bit, Serial Multiplying DAC	8-Dip	48.13	31.96	24.71
LTC1595ACS8-ND	—	16-Bit, Serial Multiplying DAC	8-SOIC	48.75	32.37	25.65
LTC1595AIN8-ND	—	16-Bit, Serial Multiplying DAC, Ind. Temp.	8-Dip	57.75	38.35	29.65
LTC1595AIS8-ND	—	16-Bit, Serial Multiplying DAC, Ind. Temp.	8-SOIC	58.50	38.85	30.00
LTC1595BCN8-ND	9294B	16-Bit, Serial Multiplying DAC	8-Dip	28.50	18.93	15.20
LTC1595BCS8-ND	9294B	16-Bit, Serial Multiplying DAC	8-SOIC	29.13	19.34	15.55
LTC1595BIS8-ND	9294B	16-Bit, Serial Multiplying DAC, Ind. Temp.	8-SOIC	35.00	23.24	18.65
LTC1595CCN8-ND	—	16-Bit, Serial Multiplying DAC	8-Dip	24.38	16.19	13.00
LTC1595CCS8-ND	—	16-Bit, Serial Multiplying DAC	8-SOIC	25.00	16.60	13.35

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Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LTC1595CIS8-ND	—	16-Bit, Serial Multiplying DAC, Ind. Temp.	8-SOIC	30.00	19.92	16.00
LTC1596ACN-ND	—	16-Bit, Serial Multiplying DAC	16-Dip	50.38	33.45	25.85
LTC1596ACSW-ND	—	16-Bit, Serial Multiplying DAC	16-SOIC	51.00	33.87	26.15
LTC1596AISW-ND	—	16-Bit, Serial Multiplying DAC, Ind. Temp.	16-SOIC	61.25	40.67	31.40
LTC1596BCSW-ND	—	16-Bit, Serial Multiplying DAC	16-SOIC	30.63	20.34	16.35
LTC1596CCN-ND	—	16-Bit, Serial Multiplying DAC	16-Dip	25.63	17.02	13.65
LTC1597ACG-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	28-SSOP	55.63	36.94	27.82
LTC1597ACN-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	28-Dip	55.00	36.52	28.60
LTC1597BCG-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	28-SSOP	34.50	22.91	17.25
LTC1597BCN-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	28-Dip	33.88	22.50	16.95
LTC1597-1ACG-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	28-SSOP	55.63	36.94	27.82
LTC1597-1ACN-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	28-Dip	55.00	36.52	28.60
LTC1597-1BCG-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	28-SSOP	34.50	22.91	17.25
LTC1597-1BCN-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	28-Dip	33.88	22.50	16.95
LTC1598CG-ND	9285B	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	11.50	7.64	6.20
LTC1598IG-ND	9285B	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	13.25	8.80	7.10
LTC1598LCG-ND	—	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	11.63	7.75	6.45
LTC1599ACG-ND	—	16-Bit, Multiplying Parallel DAC w/4 Quad Resistors	24-SSOP	55.63	36.94	28.90
LTC1604ACG-ND	—	16-Bit, 333ksps Sampling ADC withShutdown	36-SSOP	58.75	39.01	29.38
LTC1604AIG-ND	—	16-Bit, 333ksps Sampling ADC withShutdown	36-SSOP	63.13	41.92	31.57
LTC1604CG-ND	—	16-Bit, 333ksps Sampling ADC with Shutdown	36-SSOP	44.50	29.55	22.25
LTC1604IG-ND	—	16-Bit, 333ksps Sampling ADC with Shutdown	36-SSOP	47.88	31.79	23.94
LTC1605ACG-ND	—	16-Bit, 100ksps Sampling A/D Converter	28-SSOP	49.63	32.96	24.85
LTC1605ACSW-ND	—	16-Bit, 100ksps Sampling A/D Converter	28-SOIC	48.88	32.46	24.45
LTC1605AIG-ND	—	16-Bit, 100ksps Sampling A/D Converter, Ind. Temp.	28-SSOP	51.00	33.87	25.50
LTC1605AISW-ND	—	16-Bit, 100ksps Sampling A/D Converter, Ind. Temp.	28-SOIC	51.00	33.87	25.50
LTC1605CN-ND	—	16-Bit, 100ksps Sampling A/D Converter	28-Dip	36.13	23.99	18.07
LTC1605CSW-ND	—	16-Bit, 100ksps Sampling A/D Converter	28-SOIC	36.13	23.99	18.07
LTC1605IG-ND	—	16-Bit, 100ksps Sampling A/D Converter, Ind. Temp.	28-SSOP	39.50	26.23	20.00
LTC1605IN-ND	—	16-Bit, 100ksps Sampling A/D Converter, Ind. Temp.	28-Dip	38.25	25.40	19.15
LTC1605ISW-ND	—	16-Bit, 100ksps Sampling A/D Converter, Ind. Temp.	28-SOIC	38.25	25.40	19.15
LTC1605-1CG-ND	—	16-Bit, 100ksps Sampling A/D Converter	28-SSOP	36.88	24.49	18.71
LTC1605-2CG-ND	—	16-Bit, 100ksps Sampling A/D Converter	28-SSOP	36.88	24.49	18.71
LTC1608ACG-ND	—	16-Bit, 500ksps Sampling ADC with Shutdown	36-SSOP	49.13	32.62	25.20
LTC1608CG-ND	—	16-Bit, 500ksps Sampling ADC with Shutdown	36-SSOP	35.00	23.24	17.50
LTC1609CSW-ND	—	16-Bit, 200ksps Serial Sampling ADC	20-SOIC	31.75	21.09	15.88
LTC1609IG-ND	—	16-Bit, 200ksps Sampling ADC, Ind. Temp.	28-SSOP	35.00	23.24	17.50
LTC1609ISW-ND	—	16-Bit, 200ksps Serial Sampling ADC	20-SOIC	35.00	23.24	17.50
LTC1622CMS8-ND	—	Low Voltage, Step Down DC/DC Controller	8-MSOP	4.38	2.91	2.19
LTC1622CS8-ND	—	Low Voltage, Step Down DC/DC Controller	8-SOIC	3.88	2.58	1.94
LTC1624CS8-ND	—	High Efficiency N-Channel Switching Reg. Controller	8-SOIC	7.13	4.74	3.75
LTC1624IS8-ND	9294B	High Efficiency N-Channel Switching Reg. Controller	8-SOIC	8.88	5.90	4.80
LTC1625CS-ND	—	No Rsense Synch. Step Down Switching Regulator	16-SOIC	9.13	6.06	4.85
LTC1625IGN-ND	—	No Rsense Synch. Step Down Switching Regulator	16-SSOP	11.75	7.81	6.25
LTC1625IS-ND	—	No Rsense Synch. Step Down Switching Regulator	16-SOIC	11.00	7.31	5.85
LTC1627CS8-ND	—	Mono Synchronous Step Down Switching Regulator	8-SOIC	4.38	2.91	2.19
LTC1627IS8-ND	—	Mono Synchronous Step Down Switching Regulator	8-SOIC	6.50	4.32	3.25
LTC1628CG-ND	—	Mono Step Down Switching Reg.	28-SSOP	9.13	6.06	4.75
LTC1628CG-SYNC-ND	—	Mono Synchronous Step Down Switching Reg.	28-SSOP	9.50	6.31	4.90
LTC1628CUH-ND	—	High Efficiency, 2 Phase Step-Down Switching Regulator	32-QFN	9.38	6.23	4.69
LTC1629IG-ND	—	Poly Phase High Efficiency Synchronous Step-Down Switching Regulator	28-SSOP	14.25	9.47	7.53
LTC1642CGN-ND	—	Adjustable Hot Swap Controller	16-SSOP	7.25	4.82	3.70
LTC1643LCGN-ND	—	PCI-Bus Hot Swap Controller	16-SSOP	8.75	5.81	4.55
LTC1644CGN-ND	—	CompactPCI-Bus Hot Swap Controller	20-SSOP	7.38	4.90	3.95
LTC1646CGN-ND	—	CompactPCI Dual Hot Swap Controller	16-SSOP	7.00	4.65	3.75
LTC1646IGN-ND	—	CompactPCI Dual Hot Swap Controller	16-SSOP	8.00	5.35	4.25
LTC1649CS-ND	—	3.3V, Step Down Switching Regulator Controller	16-SOIC	8.38	5.57	4.20
LTC1650ACN-ND	—	16-Bit, Rail-to-Rail Voltage Out D/A Converter	16-Dip	31.88	21.17	17.00
LTC1650ACS-ND	—	16-Bit, Rail-to-Rail Voltage Out D/A Converter	16-SOIC	32.50	21.58	17.10
LTC1650AIS-ND	—	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	16-SOIC	36.88	24.49	19.40
LTC1650CN-ND	—	16-Bit, Rail-to-Rail Voltage Out D/A Converter	16-Dip	23.88	15.86	11.95
LTC1650CS-ND	—	16-Bit, Rail-to-Rail Voltage Out D/A Converter	16-SOIC	24.50	16.27	12.25
LTC1650IS-ND	—	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	16-SOIC	27.75	18.43	13.90
LTC1654CGN-ND	—	Dual 14-Bit, Rail-to-Rail Volt. Out D/A Converter	16-SSOP	19.00	12.62	9.50
LTC1654IGN-ND	—	Dual 14-Bit, Rail-to-Rail Volt. Out DAC, Ind. Temp.	16-SSOP	21.88	14.53	10.94
LTC1655CN8-ND	—	16-Bit, Rail-to-Rail Voltage Out D/A Converter	8-Dip	16.88	11.21	8.45
LTC1655CS8-ND	—	16-Bit, Rail-to-Rail Voltage Out D/A Converter	8-SOIC	16.88	11.21	8.45
LTC1655IS8-ND	—	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	8-SOIC	18.50	12.29	9.25
LTC1658CMS8-ND	—	14-Bit, Rail-to-Rail Voltage Out D/A Converter	8-MSOP	10.88	7.23	5.45
LTC1658CN8-ND	—	14-Bit, Rail-to-Rail Voltage Out D/A Converter	8-Dip	10.25	6.81	5.15
LTC1658CS8-ND	—	14-Bit, Rail-to-Rail Voltage Out D/A Converter	8-SOIC	10.25	6.81	5.15
LTC1658IMS8-ND	—	14-Bit, R-R Voltage Out DAC, Ind. Temp.	8-MSOP	13.00	8.64	6.50
LTC1659CS8-ND	—	12-Bit, Rail-to-Rail Voltage Out D/A Converter	8-SOIC	8.38	5.57	4.65
LTC1659IS8-ND	—	12-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	8-SOIC	9.13	6.06	5.10
LTC1660CGN-ND	—	Octal 10-Bit, Voltage Output D/A Converter	16-SSOP	12.38	8.22	6.20
LTC1660CN-ND	—	Octal 10-Bit, Voltage Output D/A Converter	16-Dip	11.38	7.56	5.70
LTC1660IGN-ND	—	Octal 10-Bit, Voltage Output DAC, Ind. Temp.	16-SSOP	13.88	9.22	6.95
LTC1660IN-ND	—	Octal 10-Bit, Voltage Output DAC, Ind. Temp.	16-Dip	12.88	8.55	6.44
LTC1661CMS8-ND	—	Dual 10-Bit, Micropower D/A Converter	8-MSOP	3.38	2.25	1.75
LTC1661CN8-ND	—	Dual 10-Bit, Micropower D/A Converter	8-Dip	3.38	2.25	1.75
LTC1663CS5-1-ND	—	10-Bit, R/R Micropower DAC with 2 Wire Interface	SOT-23-5	3.50	2.33	1.80
LTC1663CS5-1TR-ND	—	10-Bit, R/R Micropower DAC with 2 Wire Interface	SOT-23-5	4600.00/2,500		
LTC1663CS5-2-ND	—	10-Bit, R/R Micropower DAC with 2 Wire Interface	SOT-23-5	3.50	2.33	1.80
LTC1663CS5-2TR-ND	—	10-Bit, R/R Micropower DAC with 2 Wire Interface	SOT-23-5	4600.00/2,500		
LTC1663-8CMS8-ND	—	10-Bit R/R Micropower DAC with 2-Wire Interface	8-MSOP	3.50	2.33	1.85
LTC1663-8IMS8-ND	—	10-Bit R/R Micropower DAC with 2-Wire Interface	8-MSOP	4.13	2.74	2.10
LTC1665CGN-ND	—	Octal 8-Bit, Voltage Output D/A Converter	16-SSOP	6.38	4.24	3.20
LTC1666CG-ND	—	12-Bit, 50Msps D/A Converter	28-SSOP	16.63	11.04	8.95
LTC1667CG-ND	—	14-Bit, 50Msps D/A Converter	28-SSOP	22.38	14.86	12.05
LTC1682CS8-ND	—	Adj. Doubler Charge Pump with Low Noise Linear Reg.	8-SOIC	3.50	2.33	1.80
LTC1682CS8-5-ND	—	5V, Doubler Charge Pump with Low Noise Linear Reg.	8-SOIC	3.50	2.33	1.80
LTC1685CS8-ND	—	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	5.63	3.74	3.15
LTC1685IS8-ND	—	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	6.50	4.32	3.40
LTC1686CS8-ND	—	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	8.38	5.57	4.50
LTC1686IS8-ND	—	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	9.63	6.40	5.00
LTC1687CS-ND	—	52Mbps Precision Delay RS485 Fail-Safe Transceiver	14-SOIC	8.38	5.57	4.50
LTC1687IS-ND	—	52Mbps Precision Delay RS485 Fail-Safe Transceiver	14-SOIC	9.63	6.40	5.00
LTC1688CS-ND	—	100Mbps RS485 Hot Swap Quad Driver	16-SOIC	10.13	6.73	5.25
LTC1688IS-ND	—	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.	16-SOIC	11.63	7.75	6.20

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LTC1689CS-ND	—	100Mbps RS485 Hot Swap Quad Driver	16-SOIC	10.13	6.73	5.25
LTC1689IS-ND	—	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.	16-SOIC	11.63	7.75	6.20
LTC1690CS8-ND	—	Low Power Driver/Receiver with Fail-Safe Receiver Output	8-SOIC	3.50	2.35	1.80
LTC1693-1CS8-ND	—	High Speed Dual N-Channel MOSFET Driver	8-SOIC	3.50	2.33	1.75
LTC1693-1IS8-ND	—	High Speed Dual N-Chan. MOSFET Driver, Ind. Temp.	8-SOIC	4.00	2.66	2.00
LTC1693-2IS8-ND	—	High Speed Dual N-Chan. MOSFET Driver, Ind. Temp.	8-SOIC	4.00	2.66	2.00
LTC1693-5CMS8-ND	—	High Speed Single N-Channel MOSFET Driver	8-MSOP	3.63	2.41	1.82
LTC1694CS5-ND	—	Dual SMBus Accelerator	SOT-23-5	2.63	1.75	1.32
LTC1694-1IS5-ND	—	SMBus/I^{2}C Accelerator	SOT-23-5	3.13	2.08	1.70
LTC1698EGN-ND	—	Secondary Synchronous Rectifier Controller	16-SSOP	11.25	7.47	5.63
LTC1698ES-ND	—	Secondary Synchronous Rectifier Controller	16-SOIC	11.38	7.56	5.69
LTC1700EMS-ND	—	Synchronous Step-Up DC/DC Controller	10-MSOP	5.50	3.66	2.75
LTC1701BES5-ND	—	1MHz Step-Down DC/DC Converter	SOT-23-5	3.75	2.49	2.15
LTC1702CGN-ND	—	Dual 550kHz, Synch. Switch Regulator Controller	24-SSOP	9.88	6.56	5.45
LTC1703IG-ND	—	Dual 550kHz, Synch. Switch Reg. Cont. with VID	28-SSOP	12.50	8.30	6.25
LTC1704EGN-ND	—	Dual, 550kHz, Synch. Switch Regulator Controller Plus Linear Regulator Controller	16-SSOP	8.25	5.48	4.18
LTC1705EGN-ND	—	Dual 5-Bit, Synch. Switching Regulator Controller	28-SSOP	11.25	7.47	5.63
LTC1706EMS-85-ND	—	VID Voltage Programmer for Intel VRM 8.5	10-MSOP	4.25	2.83	2.15
LTC1709EG-7-ND	—	5-Bit, 2-Phase, Synch., Step-Down Switching Reg.	36-SSOP	9.75	6.48	5.10
LTC1709EG-85-ND	—	5-Bit, 2-Phase, Synch., Step-Down Switching Reg.	36-SSOP	9.75	6.48	5.00
LTC1710CMS8-ND	—	Dual SMBus High Side Switch	8-MSOP	6.38	4.24	3.20
LTC1710CS8-ND	—	Dual SMBus High Side Switch	8-SOIC	5.88	3.91	2.95
LTC1710IS8-ND	—	Dual SMBus High Side Switch, Ind. Temp.	8-SOIC	7.00	4.65	3.50
LTC1728ES5-3.3-ND	—	3.3V Precision Triple Supply Monitor	SOT-23-5	2.88	1.91	1.45
LTC1730EGN-4-ND	—	4V Li-Ion Battery Pulse Charger	16-SSOP	4.38	2.91	2.19
LTC1730ES8-4.2-ND	—	4.2V Li-Ion Battery Pulse Charger	8-SOIC	3.88	2.58	1.94
LTC1731EMS8-8.2-ND	—	8.2V Li-Ion Linear Battery Charger Controller	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.4-ND	—	8.4V Li-Ion Linear Battery Charger Controller	8-MSOP	3.63	2.41	1.90
LTC1731ES8-8.2-ND	—	8.2V Li-Ion Linear Battery Charger Controller	8-SOIC	3.25	2.16	1.65
LTC1731ES8-8.4-ND	—	8.4V Li-Ion Linear Battery Charger Controller	8-SOIC	3.25	2.16	1.65
LTC1732EMS-8.4-ND	—	Li-Ion Linear Battery Charger Controller	10-MSOP	4.63	3.08	2.32
LTC1734ES6-4.1-ND	—	4.1V Li-Ion Linear Battery Charger Controller	SOT-23-6	2.75	1.83	1.38
LTC1734ES6-4.2-ND	—	4.2V Li-Ion Linear Battery Charger Controller	SOT-23-6	2.75	1.83	1.38
LTC1734LES6-4.2-ND	—	4.2V Li-Ion Linear Battery Charger Controller	SOT-23	2.75	1.83	1.38
LTC1735CF-ND	—	High Efficiency Synch. Step-Down Switching Reg.	20-TSSOP	7.00	4.65	3.50
LTC1735CGN-ND	—	High Efficiency Synch. Step-Down Switching Reg	16-SSOP	6.88	4.57	3.44
LTC1735CGN-1-ND	—	High Efficiency Synch. Step-Down Switching Reg	16-SSOP	6.88	4.57	3.44
LTC1735CS-ND	—	High Efficiency Synch. Step-Down Switching Reg	16-SOIC	6.63	4.40	3.32
LTC1735IF-ND	—	High Efficiency Synch. Step-Down Switching Reg.	20-TSSOP	9.13	6.06	4.57
LTC1735IGN-ND	—	High Efficiency Synch. Step-Down Switching Reg	16-SSOP	9.00	5.98	4.50
LTC1740CG-ND	—	14-Bit, 6Msps, Sampling ADC *NEW!*	36-SSOP	34.38	22.83	18.36
LTC1744CFW-ND	—	14-Bit, 50Msps ADC	48-TSSOP	53.13	35.28	28.36
LTC1745CFW-ND	—	12-Bit, 25Msps, Low Noise ADC *NEW!*	48-TSSOP	18.63	12.37	9.95
LTC1746CFW-ND	—	14-Bit, 25Msps, Low Power ADC *NEW!*	48-TSSOP	25.50	16.94	13.60
LTC1751EMS8-ND	—	Micropower Regulated Charge Pump DC/DC Conv.	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-3.3-ND	—	Micropower Regulated Charge Pump DC/DC Conv.	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-5-ND	—	Micropower Regulated Charge Pump DC/DC Conv.	8-MSOP	4.63	3.08	2.32
LTC1753CG-ND	—	5-Bit, Programmable Synchronous Switching Regulator Controller for Pentium II Processor	20-SSOP	6.50	4.32	3.25
LTC1753CSW-ND	—	5-Bit, Programmable Synchronous Switching Regulator Controller for Pentium II Processor	20-SOIC	6.00	3.99	3.00
LTC1758-1EMS8-ND	—	250kHz Single Band RF Power Controller	8-MSOP	3.38	2.25	1.70
LTC1758-2EMS-ND	—	250kHz Dual Band RF Power Controller	10-MSOP	3.50	2.33	1.79
LTC1759CG-ND	—	Smart Battery Charger	36-SSOP	11.50	7.64	5.75
LTC1772BES6-ND	—	Constant Frequency, Current Mode Step-Down DC/DC Controller	SOT-23-6	3.88	2.58	1.94
LTC1772ES6-ND	—	Constant Frequency, Current Mode Step Down DC/DC Controller	SOT-23-6	3.88	2.58	1.94
LTC1778EGN-ND	—	Synch. Step-Down Switching Regulator Controller	16-SSOP	5.75	3.82	2.88
LTC1778EGN-1-ND	—	Synch. Step-Down Switching Regulator Controller	16-SSOP	5.75	3.82	2.88
LTC1779ES6-ND	—	250mA Step-Down DC/DC Converter	SOT-23-6	3.75	2.49	1.94
LTC1799CS5-ND	—	1kHz-30MHz Resistor Set Precision Oscillator	SOT-23-5	3.25	2.55	1.95
LTC1799IS5-ND	—	1kHz-30MHz Resistor Set Precision Oscillator	SOT-23-5	3.63	3.45	2.70
LTC1821-1ACGW-ND	—	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	87.13	58.10	46.46
LTC1821-1AIGW-ND	—	16-Bit, Ultra Precise, Voltage Out DAC, Ind. Temp.	36-SSOP	95.63	63.75	51.00
LTC1821-1BCGW-ND	—	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	63.63	42.40	33.95
LTC1821-1BIGW-ND	—	16-Bit, Ultra Precise, Voltage Out DAC, Ind. Temp.	36-SSOP	70.00	46.65	37.35
LTC1821ACGW-ND	—	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	87.13	58.10	46.46
LTC1821AIGW-ND	—	16-Bit, Ultra Precise, Voltage Out DAC, Ind. Temp.	36-SSOP	95.63	63.75	51.00
LTC1821BCGW-ND	—	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	63.63	42.40	33.95
LTC1821BIGW-ND	—	16-Bit, Ultra Precise, Voltage Out DAC, Ind. Temp.	36-SSOP	70.00	46.65	37.35
LTC1840CGN-ND	—	Dual Fan Controller with 2-Wire Interface	16-SSOP	5.63	3.75	3.00
LTC1841CS8-ND	—	Ultra Low Power Dual Comparator with Reference	8-SOIC	2.50	1.66	1.25
LTC1842CS8-ND	—	Ultra Low Power Dual Comparator with Reference	8-SOIC	2.88	1.91	1.50
LTC1843CS8-ND	—	Ultra Low Power Dual Comparator with Reference	8-SOIC	2.88	1.91	1.50
LTC1850CFW-ND	—	8-Ch., 10-Bit, 1.25Msps Sampling ADC	48-TSSOP	12.13	8.06	6.50
LTC1851CFW-ND	—	8-Ch., 12-Bit, 1.25Msps Sampling ADC	48-TSSOP	14.63	9.72	7.85
LTC1852CFW-ND	—	8-Ch., 10-Bit, 400ksps, Low Power ADC	48-TSSOP	12.13	8.06	6.50
LTC1853CFW-ND	—	8-Ch., 12-Bit, 400ksps, Low Power ADC	48-TSSOP	14.63	9.72	7.85
LTC1860CMS8-ND	—	1-Channel, 12-Bit, 250ksps A/D Converter	8-MSOP	4.88	3.24	2.65
LTC1860CS8-ND	—	1-Channel, 12-Bit, 250ksps A/D Converter	8-SOIC	4.75	3.16	2.60
LTC1861CMS-ND	—	2-Channel, 12-Bit, 250ksps A/D Converter	10-MSOP	6.25	4.15	3.50
LTC1861CS8-ND	—	2-Channel, 12-Bit, 250ksps A/D Converter	8-SOIC	5.88	3.91	3.25
LTC1864ACMS8-ND	—	1-Channel, 16-Bit, 250ksps A/D Converter	8-MSOP	15.00	9.96	8.05
LTC1864ACS8-ND	—	1-Channel, 16-Bit, 250ksps A/D Converter	8-SOIC	14.38	9.55	7.70
LTC1864CMS8-ND	—	1-Channel, 16-Bit, 250ksps A/D Converter	8-MSOP	12.88	8.55	6.90
LTC1864CS8-ND	—	1-Channel, 16-Bit, 250ksps A/D Converter	8-SOIC	12.38	8.22	6.65
LTC1865ACMS-ND	—	2-Channel, 16-Bit, 250ksps A/D Converter	10-MSOP	15.38	10.21	8.55
LTC1865ACS8-ND	—	2-Channel, 16-Bit, 250ksps A/D Converter	8-SOIC	14.75	9.80	8.20
LTC1865CMS-ND	—	2-Channel, 16-Bit, 250ksps A/D Converter	10-MSOP	13.38	8.89	7.45
LTC1865CS8-ND	—	2-Channel, 16-Bit, 250ksps A/D Converter	8-SOIC	12.88	8.55	7.15
LTC1865LACMS-ND	—	2-Channel, 16-Bit, 150ksps A/D Converter *NEW!*	10-MSOP	15.38	10.21	8.55
LTC1865LACS8-ND	—	2-Channel, 16-Bit, 150ksps A/D Converter *NEW!*	8-SOIC	14.75	9.80	8.20
LTC1865LCMS-ND	—	2-Channel, 16-Bit, 150ksps A/D Converter *NEW!*	10-MSOP	13.38	8.89	7.45
LTC1865LCS8-ND	—	2-Channel, 16-Bit, 150ksps A/D Converter *NEW!*	8-SOIC	12.88	8.55	7.15
LTC1871EMS-ND	—	Current Mode Boost, Flyback, SEPIC Controller	10-MSOP	5.38	3.57	2.69
LTC1872BES6-ND	—	Constant Frequency, Current Mode Step-Up DC/DC Controller	SOT-23-6	3.75	2.49	1.95
LTC1872ES6-ND	—	Constant Frequency, Current Mode Step-Up DC/DC Controller	SOT-23-6	3.75	2.49	2.00

(Continued)

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★		
				1	25	100
LTC1872ES6TR-ND	—	Constant Frequency, Current Mode Step-Up DC/DC Controller	SOT-23-6	4620.00/2,500		
LTC1874EGN-ND	—	Dual Constant Frequency, Current Mode Step-Down DC/DC Controller	16-SSOP	6.75	4.49	3.38
LTC1875EGN-ND	—	1.5A Monolithic Synch. Step-Down Reg.	16-SSOP	7.00	4.65	3.57
LTC1878EMS8-ND	—	High Efficiency Monolithic Synch. Step-Down Reg.	8-MSOP	5.50	3.66	2.80
LTC1878EMS8TR-ND	—	High Efficiency Monolithic Synch. Step-Down Reg.	8-MSOP	6650.00/2,500		
LTC1879EGN-ND	—	1.2A Synchronous Step-Down Regulator	16-SSOP	7.20	4.79	3.67
LTC1909-8EG-ND	—	Step-Down DC/DC Regulator Controller	28-SSOP	10.38	6.89	5.19
LTC1911EMS8-1.5-ND	—	1.5V Low Noise Step-Down DC/DC Converter	8-MSOP	4.80	3.19	2.40
LTC1911EMS8-1.8-ND	—	1.8V Low Noise Step-Down DC/DC Converter	8-MSOP	4.80	3.19	2.40
LTC1921CMS8-ND	—	Dual -48V Supply and Fuse Monitor	8-MSOP	5.00	3.40	2.90
LTC1921CS8-ND	—	Dual -48V Supply and Fuse Monitor	8-SOIC	5.25	3.75	3.15
LTC1921IS8-ND	—	Dual -48V Supply and Fuse Monitor	8-SOIC	6.63	4.40	3.80
LTC1923EUH-ND	—	High Efficiency Thermoelectric Cooler Controller	32-QFN	39.30	26.10	19.65
LTC1955EUH-ND	—	Dual Smart Card Interface with Serial Control	32-QFN	4.90	3.26	2.50
LTC1957-1EMS8-ND	—	Single-Band RF Power Controller with 40dB Range	8-MSOP	3.38	2.25	1.70
LTC1957-2EMS-ND	—	Dual-Band RF Power Controller with 40dB Range	10-MSOP	3.50	2.33	1.79
LTC1960CG-ND	—	Dual Battery Charger/Selector with SPI Interface	36-SSOP	14.75	9.80	7.38
LTC1966CMS8-ND	—	Precision Micropower RMS/DC Converter	8-MSOP	5.88	3.91	3.60
LTC1981ES5-ND	—	Single Micropower High-Side Switcher Controller	SOT-23-5	2.50	1.66	1.25
LTC1982ES6-ND	—	Dual N-Channel MOSFET Driver	SOT-23-6	3.00	2.00	1.53
LTC1983ES6-3-ND	—	3V, 100mA Regulated Charge-Pump Inverter	SOT-23-6	3.60	2.40	1.80
LTC1983ES6-5-ND	—	2.3V, 100mA, Regulated Charge-Pump Inverter	SOT-23-6	3.60	2.40	1.80
LTC1992-2CMS8-ND	—	Gain of 2 Fully Differential In/Out Amp/Driver *NEW!*	8-MSOP	7.88	5.23	4.35
LTC1998CS6-ND	—	Programmable Low Battery Volt. Detector	SOT-23-6	2.00	1.33	1.10
LTC2050HS5-ND	—	7V, Zero-Drift Op Amp *NEW!*	SOT-23-5	2.63	1.75	1.35
LTC2050HS6-ND	—	7V, Zero-Drift Op Amp *NEW!*	SOT-23-6	2.88	1.91	1.45
LTC2050HVCS5-ND	—	12V, High Voltage, Zero-Drift Op Amp	SOT-23-5	3.00	2.00	1.55
LTC2050HVCS6-ND	—	12V, High Voltage, Zero-Drift Op Amp	SOT-23-6	3.25	2.16	1.65
LTC2050HVCS8-ND	—	12V, High Voltage, Zero-Drift Op Amp.	8-SOIC	3.00	2.00	1.55
LTC2050HVCS8TR-ND	—	12V, High Voltage, Zero-Drift Op Amp.	8-SOIC	3775.00/2,500		
LTC2050HVIS8-ND	—	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	3.25	2.16	1.70
LTC2050HVIS8TR-ND	—	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	4024.99/2,500		
LTC2050IS8-ND	—	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	2.63	1.75	1.32
LTC2050IS8TR-ND	—	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	3400.00/2,500		
LTC2051CDD-ND	—	2A Dual Zero-Drift Op Amp *NEW!*	8-DFN	4.75	3.16	2.40
LTC2051HMS8-ND	—	2A Dual Zero-Drift Op Amp.	8-MSOP	4.75	3.16	2.45
LTC2051HS8-ND	—	2A Dual Zero-Drift Op Amp	8-SOIC	4.50	2.99	2.40
LTC2051HVHMS8-ND	—	2A Dual Zero Drift Op Amp	8-MSOP	6.00	3.99	3.10
LTC2051HVHS8-ND	—	2A Dual Zero-Drift Op Amp	8-SOIC	5.75	3.82	2.95
LTC2052CGN-ND	—	4A Quad Zero-Drift Op Amp	16-SSOP	8.38	5.57	4.20
LTC2052CGNTR-ND	—	4A Quad Zero-Drift Op Amp	16-SSOP	10024.99/2,500		
LTC2052CS-ND	—	4A Quad Zero-Drift Op Amp	14-SOIC	7.75	5.15	3.90
LTC2052CSTR-ND	—	4A Quad Zero-Drift Op Amp	14-SOIC	9275.02/2,500		
LTC2052HGN-ND	—	4A Quad Zero-Drift Op Amp	16-SSOP	9.00	5.98	4.80
LTC2052HS-ND	—	4A Quad Zero-Drift Op Amp	14-SOIC	8.38	5.57	4.45
LTC2052HVCGN-ND	—	4A Quad Zero-Drift Op Amp	16-SSOP	10.50	6.98	5.25
LTC2052HVCGNTR-ND	—	4A Quad Zero-Drift Op Amp	16-SSOP	12524.96/2,500		
LTC2052HVCS-ND	—	4A Quad Zero-Drift Op Amp	14-SOIC	9.63	6.40	4.82
LTC2052HVCSTR-ND	—	4A Quad Zero-Drift Op Amp	14-SOIC	11524.99/2,500		
LTC2052HVHGN-ND	—	4A Quad Zero-Drift Op Amp	16-SSOP	11.13	7.39	6.10
LTC2052HVHS-ND	—	4A Quad Zero-Drift Op Amp	14-SOIC	10.50	6.98	5.75
LTC2052HVIGNTR-ND	—	4A Quad Zero-Drift Op Amp, Ind. Temp.	16-SSOP	13275.00/2,500		
LTC2052HVISTR-ND	—	4A Quad Zero-Drift Op Amp, Ind. Temp.	14-SOIC	12524.96/2,500		
LTC2052IGNTR-ND	—	4A Quad Zero-Drift Op Amp, Ind. Temp.	16-SSOP	10676.25/2,500		
LTC2052ISTR-ND	—	4A Quad Zero-Drift Op Amp, Ind. Temp.	14-SOIC	10024.99/2,500		
LTC2053CMS8-ND	—	Precision R/R I/O Zero-Drift Instrum. Amp.	8-MSOP	6.38	4.24	3.30
LTC2053CMS8TR-ND	—	Precision R/R I/O Zero-Drift Instrum. Amp.	8-MSOP	8150.03/2,500		
LTC2400CS8-ND	—	24-Bit, Micropower A/D Converter	8-SOIC	10.63	7.10	6.05
LTC2400IS8-ND	—	24-Bit, Micropower A/D Converter, Ind. Temp.	8-SOIC	12.13	8.10	6.95
LTC2408CG-ND	—	24-Bit, 8-Channel Micropower A/D Converter	28-SSOP	12.13	8.10	6.95
LTC2411CMS-ND	—	24-Bit, No Latency Delta Sigma ADC with Differential Input and Reference.	10-MSOP	10.63	7.10	6.05
LTC2411CMSTR-ND	—	24-Bit, No Latency Delta Sigma ADC with Differential Input and Reference.	10-MSOP	13900.00/2,500		
LTC2411IMS-ND	—	24-Bit, No Latency Delta Sigma ADC with Differential Input and Reference.	10-MSOP	12.13	8.10	6.95
LTC2411IMSTR-ND	—	24-Bit, No Latency Delta Sigma ADC with Differential Input and Reference.	10-MSOP	15775.00/2,500		
LTC2411-1CMS-ND	—	24-Bit, No Latency Delta Sigma ADC with Differential Input and Reference.	10-MSOP	10.63	7.10	6.05
LTC2412CGN-ND	—	24-Bit, No Latency Delta Sigma ADC, 2-Channel, Differential Input *NEW!*	16-SSOP	9.50	6.31	5.05
LTC2413CGN-ND	—	24-Bit, Micropower ADC Converter	16-SSOP	10.63	7.10	6.05
LTC2413IGN-ND	—	24-Bit, Micropower ADC Converter, Ind. Temp	16-SSOP	12.13	8.10	6.95
LTC2414CGN-ND	—	4-Channel, Differential Input, 24-Bit No Latency Delta Sigma ADC.	28-SSOP	12.13	8.10	6.95
LTC2415CGN-ND	—	24-Bit No Latency Delta Sigma ADC with Differential Input and Reference	16-SSOP	10.63	7.10	6.05
LTC2415IGN-ND	—	24-Bit No Latency Delta Sigma ADC with Differential Input and Reference	16-SSOP	12.13	8.10	6.95
LTC2415-1CGN-ND	—	24-Bit No Latency Delta Sigma ADC with Differential Input and Reference	16-SSOP	10.63	7.10	6.05
LTC2418CGN-ND	—	8-Channel, Differential Input, 24-Bit No Latency Delta Sigma ADC.	28-SSOP	13.50	9.00	7.70
LTC2421CMS-ND	—	1-Channel, 20-Bit, Micropower, No Latency Delta Sigma ADC	10-MSOP	8.38	5.57	4.65
LTC2422CMS-ND	—	2-Channel, 20-Bit, Micropower, No Latency Delta Sigma ADC	10-MSOP	8.75	5.81	4.80
LTC2430CGN-ND	—	20-Bit, No Latency Delta Sigma ADC with Differential Input and Reference	16-SSOP	7.13	4.74	3.80
LTC2431CMS-ND	—	20-Bit, No Latency Delta Sigma ADC with Differential Input and Reference.	10-MSOP	7.38	4.90	3.95
LTC2436-1CGN-ND	—	16-Bit, No Latency Delta Sigma ADC, 2-Channel, Differential Input *NEW!*	16-SSOP	4.88	3.24	2.60
LTC2440CGN-ND	—	24-Bit High Speed Differential Delta Sigma ADC with Selectable Speed/Resolution.	16-SSOP	11.13	7.39	6.20
LTC2440IGN-ND	—	24-Bit High Speed Differential Delta Sigma ADC with Selectable Speed/Resolution.	16-SSOP	12.63	8.39	6.95
LTC2600CGN-ND	—	Octal, 16-Bit Rail-to-Rail DAC *NEW!*	16-SSOP	28.00	18.60	14.95

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★		
				1	25	100
LTC2610CGN-ND	—	Octal, 14-Bit Rail-to-Rail DAC *NEW!*	16-SSOP	22.13	14.70	11.80
LTC2620CGN-ND	—	Octal, 12-Bit Rail-to-Rail DAC *NEW!*	16-SSOP	15.50	10.30	8.25
LTC2844CG-ND	—	3.3V Software Selectable Multiprotocol Transceiver	28-SSOP	11.88	7.89	6.15
LTC2845CG-ND	—	3.3V Software Selectable Multiprotocol Transceiver	36-SSOP	13.88	9.22	7.20
LTC2846CG-ND	—	3.3V Software Selectable Multiprotocol Transceiver	36-SSOP	23.75	15.77	12.20
LTC2920-1CS5-ND	—	Power Supply Margining Controller *NEW!*	SOT-23-5	2.50	1.66	1.35
LTC2920-2CMS8-ND	—	Dual, Power Supply Margining Controller *NEW!*	8-MSOP	3.50	2.33	1.90
LTC3201EMS-ND	—	100mA Ultralow Noise Charge Pump LED Supply	10-MSOP	3.75	2.49	1.94
LTC3202EDD-ND	—	Low Noise, High Efficiency Charge Pump for White LEDs *NEW!*	10-DFN	4.10	2.73	2.05
LTC3202EMS-ND	—	Low Noise, High Efficiency Charge Pump for White LEDs	10-MSOP	3.75	2.49	1.94
LTC3250ES6-1.5-ND	—	1.5V, High Efficiency, Low Noise, Inductorless, Step-Down DC/DC Converter	SOT-23-6	2.88	1.91	1.44
LTC3251EMSE-ND	—	High Efficiency, Low Noise, Inductorless, Step-Down DC/DC Converter	10-MSOP	3.90	2.59	1.99
LTC3400BES6-ND	—	600mA, 1.2MHz Micropower Synchronous Boost Converter	SOT-23-6	3.88	2.58	1.99
LTC3401EMS-ND	—	1A, 3MHz, Synch. Boost Step-Up DC/DC Converter	10-MSOP	5.50	3.66	2.75
LTC3401EMSTR-ND	—	1A, 3MHz, Synch. Boost Step-Up DC/DC Converter	10-MSOP	6649.99/2,500		
LTC3400ES6-ND	—	600mA, 1.2MHz Micropower Synchronous Boost Converter	SOT-23-6	3.88	2.58	1.99
LTC3404EMS8-ND	—	1.4MHz, Monolithic Synch. Step-Down Regulator	8-MSOP	5.75	3.82	2.88
LTC3405AES6-ND	—	1.5MHz, 300mA, Synch. Step-Down Regulator	SOT-23-6	3.23	2.15	1.64
LTC3405AES6-1.5-ND	—	1.5V, 1.5MHz, 300mA, Synchronous Step-Down Regulator	SOT-23-6	3.23	2.15	1.64
LTC3405AES6-1.8-ND	—	1.8V, 1.5MHz, 300mA, Synchronous Step-Down Regulator	SOT-23-6	3.23	2.15	1.64
LTC3405ES6-ND	—	1.5MHz, 300mA, High Efficiency Synchronous Step-Down Regulator	SOT-23-6	3.23	2.15	1.64
LTC3406ES5-ND	—	Adj., 1.5MHz, 600mA, Synchronous Step-Down Regulator	SOT-23-5	3.90	2.59	1.99
LTC3406ES5-1.5-ND	—	1.5V, 1.5MHz, 600mA, Synchronous Step-Down Regulator	SOT-23-5	3.90	2.59	1.99
LTC3406ES5-1.8-ND	—	1.8V, 1.5MHz, 600mA, Synchronous Step-Down Regulator	SOT-23-5	3.90	2.59	1.99
LTC3411EDD-ND	—	1.25A, 4MHz, Synchronous Step-Down DC/DC Converter *NEW!*	10-DFN	6.78	4.50	3.39
LTC3423EMS-ND	—	1A, Low Output Voltage, 3MHz Micropower Synchronous Boost DC/DC Converter	10-MSOP	5.50	3.66	2.75
LTC3424EMS-ND	—	2A, Low Output Voltage, 3MHz Micropower Synchronous Boost DC/DC Converter	10-MSOP	7.13	4.74	3.57
LTC3440EMS-ND	—	Micropower Synchronous Buck-Boost DC/DC Converter	10-MSOP	5.83	3.87	2.92
LTC3700EMS-ND	—	Constant Frequency Step-Down DC/DC Controller with LDO Regulator	10-MSOP	4.63	3.08	2.40
LTC3701EGN-ND	—	2-Phase, Low Input Voltage Dual Step-Down DC/DC Controller	16-SSOP	7.00	4.65	3.50
LTC3704EMS-ND	—	Wide Input Range, Positive to Negative, DC/DC Controller	10-MSOP	3.75	2.49	1.89
LTC3711EGN-ND	—	5-Bit Adjustable, Wide Operating Range, Step Down Controller	24-SSOP	7.50	4.98	3.75
LTC3713EG-ND	—	Low Input Voltage, High Power, Synchronous DC/DC Controller	24-SSOP	8.38	5.57	4.19
LTC3714EG-ND	—	Intel Compatible, Wide Op. Range, Step-Down Controller with Internal Op Amp	28-SSOP	6.50	4.32	3.25
LTC3716EG-ND	—	5-Bit, 2-Phase Step-Down Switching Regulator	36-SSOP	8.90	5.91	4.45
LTC3717EGN-ND	—	Wide Op. Range, Synchronous Step-Down Controller for DDR Memory Termination	16-SSOP	6.13	4.07	3.07
LTC3717EUH-1-ND	—	Wide Op. Range, Synchronous Step-Down Controller for DDR Memory Termination *NEW!*	32-QFN	6.63	4.40	3.32
LTC3718EG-ND	—	Low Input Voltage, DC/DC Controller for DDR/QDR Memory Termination	24-SSOP	6.88	4.57	3.52
LTC3719EG-ND	—	2-Phase, 5-Bit VID, Current Mode, High Effic., Synch. Step-Down Switching Regulator	36-SSOP	8.90	5.91	4.45
LTC3720EGN-ND	—	Single Phase VRM8.5 Current Mode Step-Down Controller	28-SSOP	6.50	4.32	3.25
LTC3722EGN-1-ND	—	Synchronous Dual Mode Phase Modulated Full Bridge Controller *NEW!*	24-SSOP	11.00	7.31	5.61
LTC3722EGN-2-ND	—	Synchronous Dual Mode Phase Modulated Full Bridge Controller *NEW!*	24-SSOP	11.00	7.31	5.61
LTC3727EG-ND	—	2-Phase, High Efficiency Synchronous Step-Down Switching Regulator	28-SSOP	10.25	6.81	5.13
LTC3727EUH-1-ND	—	2-Phase, High Efficiency Synchronous Step-Down Switching Regulator *NEW!*	32-QFN	10.88	7.23	5.44
LTC3728EG-ND	—	Dual, 550kHz, 2-Phase Synchronous Step-Down Switching Regulator	28-SSOP	10.25	6.81	5.13
LTC3728EUH-ND	—	Dual, 550kHz, 2-Phase Synchronous Step-Down Switching Regulator	32-QFN	10.50	6.98	5.25
LTC3729EG-ND	—	550kHz, PolyPhase, High Efficiency, Synchronous Step-Down Switching Regulator	28-SSOP	11.88	7.89	5.94
LTC3729EUH-ND	—	550kHz, PolyPhase, High Efficiency, Synchronous Step-Down Switching Regulator	32-QFN	12.13	8.06	6.07
LTC3730CG-ND	—	3-Phase, 5-Bit Intel Mobile VID, 600kHz, Synchronous Buck Switching Regulator Controller *NEW!*	36-SSOP	8.75	5.81	4.44
LTC3731CG-ND	—	3-Phase, 600kHz, Synchronous Buck Switching Regulator Controller *NEW!*	36-SSOP	8.63	5.73	4.44
LTC3731CUH-ND	—	3-Phase, 600kHz, Synchronous Buck Switching Regulator Controller *NEW!*	32-QFN	9.13	6.06	4.64
LTC3732CG-ND	—	3-Phase, 5-Bit VID, 600kHz, Synchronous Buck Switching Regulator Controller	36-SSOP	8.75	5.81	4.44
LTC3778EF-ND	—	Wide Op. Range, Synch. Step-Down Controller	20-TSSOP	7.13	4.74	3.57
LTC3830-1ES8-ND	—	HP, Synch. Step-Down DC/DC Controller	8-SOIC	6.25	4.15	3.13
LTC3830EGN-ND	—	HP, Synch. Step-Down DC/DC Controller	16-SSOP	7.75	5.15	3.88
LTC3830ES-ND	—	HP, Synch. Step-Down DC/DC Controller	16-SOIC	7.13	4.74	3.57
LTC3830ES8-ND	—	HP, Synch. Step-Down DC/DC Controller	8-SOIC	6.25	4.15	3.13
LTC3831EGN-ND	—	HP, Synch. Switching Regulator Controller	16-SSOP	6.00	3.99	3.00
LTC3832-1ES8-ND	—	HP Step-Down Synch. DC/DC Controller *NEW!*	8-SOIC	5.88	3.91	3.01
LTC3832EGN-ND	—	HP Step-Down Synch. DC/DC Controller *NEW!*	16-SSOP	6.25	4.15	3.16
LTC4007EGN-ND	—	4A, High Efficiency, Standalone Li Battery Charger *NEW!*	24-SSOP	7.63	5.07	3.90
LTC4008EGN-ND	—	4A, High Efficiency, Multi-Chemistry Battery Charger *NEW!*	20-SSOP	7.38	4.90	3.77

(Continued)

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LINEAR TECHNOLOGY — LINEAR SERIES *(Continued)*

Digi-Key Part No.	Data Book (Sold Sep.)	Description	Pkg.	Price Each★ 1	25	100
LTC4008EGN-1-ND	—	4A, High Efficiency, Multi-Chemistry Battery Charger *NEW!*	20-SSOP	7.38	4.90	3.77
LTC4050EMS-4.1-ND	—	4.1V Li-Ion Battery Charger Controller	10-MSOP	4.75	3.16	2.38
LTC4050EMS-4.2-ND	—	4.2V Li-Ion Battery Charger Controller	10-MSOP	4.75	3.16	2.38
LTC4052EMS8E-4.2-ND	—	Lithium-Ion Battery Pulse Charger with Over-Current Protection	8-MSOP	3.75	2.49	1.89
LTC4053EMSE-4.2-ND	—	USB Lithium-Ion Battery Charger with Thermal Regulation	10-MSOP	3.75	2.49	1.94
LTC4210-1CS6-ND	—	Hot Swap Controller	SOT-23-6	3.25	2.16	1.75
LTC4210-1IS6-ND	—	Hot Swap Controller	SOT-23-6	3.75	2.49	2.00
LTC4210-2CS6-ND	—	Hot Swap Controller	SOT-23-6	3.25	2.16	1.75
LTC4210-2IS6-ND	—	Hot Swap Controller	SOT-23-6	3.75	2.49	2.00
LTC4211CMS8-ND	—	Hot Swap Controller	8-MSOP	4.25	2.83	2.25
LTC4211CS8-ND	—	Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LTC4211CMS-ND	—	Hot Swap Controller	10-MSOP	5.25	3.49	2.75
LTC4211IMS8-ND	—	Hot Swap Controller	8-MSOP	4.88	3.24	2.55
LTC4214-1CMS-ND	—	Negative Voltage Hot Swap Controller *NEW!*	10-MSOP	4.63	3.08	2.45
LTC4214-2CMS-ND	—	Negative Voltage Hot Swap Controller *NEW!*	10-MSOP	4.63	3.08	2.45
LTC4230CGN-ND	—	Triple Hot Swap Controller	20-SSOP	7.38	4.90	3.95
LTC4251-1CS6-ND	—	Negative Voltage Hot Swap Controller	SOT-23-6	4.00	2.66	2.10
LTC4251CS6-ND	—	Negative Voltage Hot Swap Controller	SOT-23-6	4.00	2.66	2.10
LTC4252-1CMS-ND	—	Negative Voltage Hot Swap Controller	10-MSOP	4.88	3.24	2.60
LTC4252-1CMS8-ND	—	Negative Voltage Hot Swap Controller	8-MSOP	4.13	2.74	2.20
LTC4252-1IMS8-ND	—	Negative Voltage Hot Swap Controller	8-MSOP	4.75	3.16	2.55
LTC4252-2CMS-ND	—	Negative Voltage Hot Swap Controller	10-MSOP	4.88	3.24	2.60
LTC4252-2CMS8-ND	—	Negative Voltage Hot Swap Controller	8-MSOP	4.13	2.74	2.20
LTC4252-2IMS8-ND	—	Negative Voltage Hot Swap Controller	8-MSOP	4.75	3.16	2.55
LTC4253CGN-ND	—	Neg. 48V Hot Swap Controller with Sequencer	16-SSOP	5.88	3.91	3.15
LTC4300-1CMS8-ND	—	Hot Swap 2-Wire Bus Buffer	8-MSOP	3.50	2.35	2.00
LTC4350CGN-ND	—	Hot Swap Load Share Controller	16-SSOP	8.75	5.83	4.65
LTC4400-1ES6-ND	—	800MHz to 2.7GHz, RF Power Controller with 450kHz Loop BW and 45dB Dynamic Range	SOT-23-6	2.63	1.75	1.32
LTC4400-2EMS8-ND	—	800MHz to 2GHz, RF Power Controller with 450kHz Loop BW and 45dB Dynamic Range	8-MSOP	3.25	2.16	1.63
LTC4401-1ES6-ND	—	800MHz to 2.7GHz, RF Power Controller with 250kHz Loop BW and 45dB Dynamic Range	SOT-23-6	2.63	1.75	1.32
LTC4401-2EMS8-ND	—	800MHz to 2GHz, RF Power Controller with 250kHz Loop BW and 45dB Dynamic Range	8-MSOP	3.25	2.16	1.63
LTC4412ES6-ND	—	Low Loss PowerPath Controller	SOT-23-6	2.63	1.75	1.33
LTC4555EUD-ND	—	SIM Power Supply and Level Translator	16-QFN	3.63	2.41	1.82
LTC5505-1ES5-ND	—	RF Power Detector with Buffered Output	SOT-23-5	2.38	1.58	1.19
LTC5505-2ES5-ND	—	RF Power Detector with Buffered Output	SOT-23-5	2.38	1.58	1.19
LTC5507ES6-ND	—	100kHz to 1GHz RF Power Detector	SOT-23-6	3.00	2.00	1.50
LTC5508ESC6-ND	—	300MHz to 7GHz RF Power Detector with Buffered Output *NEW!*	SC-70-6	2.88	1.91	1.55
LTC6800HMS8-ND	—	R/R In/Out Instrumentation Amp *NEW!*	8-MSOP	3.10	2.25	1.85
LTC6900CS5-ND	—	Precision, LP, 1kHz to 20MHz Res. Set Oscillator	SOT-23-5	3.25	2.55	1.95
LTC6900CS5TR-ND	—	Precision, LP, 1kHz to 20MHz Res. Set Oscillator	SOT-23-5	4025.00/2,500		
LTC6902CMS-ND	—	Multiphase Oscillator with SS Frequency Modulation *NEW!*	10-MSOP	4.40	2.93	2.40
LTC6910-2CTS8-ND	—	Digitally Controlled PGA *NEW!*	TSOT-23-8	2.25	1.95	1.45
LTC6910-3CTS8-ND	—	Digitally Controlled PGA *NEW!*	TSOT-23-8	2.25	1.95	1.45
LTC7541ABN-ND	9285B	12-Bit, CMOS Multiplying D/A Converter	18-Dip	11.25	7.50	6.25
LTC7541ABSW-ND	9285B	12-Bit, CMOS Multiplying D/A Converter	18-SOIC	11.25	7.50	6.25
LTC7541AJN-ND	9285B	12-Bit, CMOS Multiplying D/A Converter	18-Dip	6.63	4.42	3.65
LTC7541AKN-ND	9285B	12-Bit, CMOS Multiplying D/A Converter	18-Dip	9.00	6.00	4.95
LTC7543GKN-ND	9285B	12-Bit, Serial Multiplying DAC	16-Dip	13.13	8.75	7.25
LTC7543KN-ND	9285B	12-Bit, Serial Multiplying DAC	16-Dip	12.63	8.40	7.00
LTC7545ABG-ND	—	12-Bit, Parallel Multiplying DAC	20-SSOP	8.75	5.85	5.00
LTC7545ACG-ND	—	12-Bit, Parallel Multiplying DAC	20-SSOP	9.13	6.10	5.20
LTC7545AKG-ND	—	12-Bit, Parallel Multiplying DAC	20-SSOP	7.63	5.10	4.35
LTC7545AKSW-ND	—	12-Bit, Parallel Multiplying DAC	20-SOIC	7.13	4.75	4.10
LTC7545ALG-ND	—	12-Bit, Parallel Multiplying DAC	20-SSOP	8.00	5.35	4.60
LTC8043EN8-ND	9285B	12-Bit, Serial Multiplying DAC	8-Dip	9.13	6.10	5.00
LTC8043ES8-ND	9285B	12-Bit, Serial Multiplying DAC	8-SOIC	9.13	6.10	5.00
LTC8043FN8-ND	9285B	12-Bit, Serial Multiplying DAC	8-Dip	8.75	5.85	4.80
LTC8043FS8-ND	9285B	12-Bit, Serial Multiplying DAC	8-SOIC	8.75	5.85	4.80
LTC8143EN-ND	9285B	12-Bit, Serial Multiplying DAC	16-Dip	13.13	8.75	7.25
LTC8143ESW-ND	9285B	12-Bit, Serial Multiplying DAC	16-SOIC	13.13	8.75	7.25
LTK001ACN8-ND	—	Thermocouple Compen. IC and Amp Kit (.5°C Error)	8-Dip	18.88	12.60	10.85
LTK001CN8-ND	—	Thermocouple Compen. IC and Amp Kit (2°C Error)	8-Dip	9.88	6.60	5.75
LTKA00CN8-ND	—	Thermocouple Amplifier (“0” Polarity)	8-Dip	5.63	3.75	3.15
LTKA01CN8-ND	—	Thermocouple Amplifier (“1” Polarity)	8-Dip	5.63	3.75	3.15
LTZ1000ACH-ND	—	Ultra Precision Reference	8-MC	81.75	54.50	46.70
LTZ1000CH-ND	—	Ultra Precision Reference	8-MC	64.25	42.85	36.70
9177B-ND		1990 Linear Technology Applications Handbook, Volume I		19.95	—	—
9175B-ND		1990 Linear Technology Databook, Volume I		9.95	—	—
9176B-ND		1992 Linear Technology Databook, Volume II		9.95	—	—
9258B-ND		1993 Linear Technology Applications Handbook, Volume II		19.95	—	—
9210B-ND		1994 Linear Technology Databook, Volume III		9.95	—	—
9257B-ND		1995 Linear Technology Data Book, Volume IV		10.00	—	—
9285B-ND		1996 Linear Technology Databook, Volume V		10.00	—	—
9286B-ND		1997 Linear Technology Applications Handbook		20.00	—	—
9294B-ND		1997 Linear Technology Databook, Volume VI		12.50	—	—
LTDS-ND		Linear View CD ROM, Contains Data Sheets & Applications Info		3.00	—	—

Panasonic® ANALOG ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN1101SSMTXLCT-ND	2.5V to 5.5V CMOS Single Power Supply	SSMINI-5	1.23	1.03	.82
AN1101SSMTXLTR-ND	2.5V to 5.5V CMOS Single Power Supply	SSMINI-5	1596.00/3,000		
AN1201SMTXLCT-ND	Polarity Inverting Charge Pump DC/DC Converter	SMINI-5	1.36	1.09	.82
AN1201SMTXLTR-ND	Polarity Inverting Charge Pump DC/DC Converter	SMINI-5	2094.00/3,000		
AN1281SSMTXLCT-ND	Ripple Filter	SSMINI-5	1.36	1.09	.82
AN1281SSMTXLTR-ND	Ripple Filter	SSMINI-5	2094.00/3,000		
AN6123MSTXLCT-ND	Speech Network with ALC	MINI-5	1.07	.89	.71
AN6123MSTXLTR-ND	Speech Network with ALC	MINI-5	1386.00/3,000		
AN8001FHKV-ND	Graduation Voltage Generation for Liquid Crystal Display	TQFP048	3.68	2.95	2.30
AN8495SBE1CT-ND	Stepping Motor Drive	HSOP042	4.61	3.69	2.87
AN8495SBE1TR-ND	Stepping Motor Drive	HSOP042	2610.00/1,000		
AN8955SSMTXLCT-ND	13MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8955SSMTXLTR-ND	13MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8956SSMTXLCT-ND	26MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8956SSMTXLTR-ND	26MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8957SSMTXLCT-ND	19MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8957SSMTXLTR-ND	19MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8958SSMTXLCT-ND	26MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8958SSMTXLTR-ND	26MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		

Panasonic® AUDIO/VIDEO ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN2906FJMEBVCT-ND	Audio I/O Amplifier	QUAD-44	3.69	2.95	2.30
AN2906FJMEBVTR-ND	Audio I/O Amplifier	QUAD-44	4178.00/2,000		
AN5272-ND	4W, 2 Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5273-ND	4W, 2 Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5274-ND	4W, 2 Channel Audio Amp with Fin	SIL-12	2.40	1.92	1.44
AN5275-ND	15W, Dual Audio Amp with Fin	SIL-12	2.88	2.31	1.80
AN5276-ND	5W, 2 Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5277-ND	10W, 2 Channel Audio Amp with Fin	SIL-12	2.30	1.85	1.44
AN5278-ND	4.8W, 1 Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN5279-ND	5W, 1 Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN5870K-ND	Analog Switch w/Amp and 75 Ω Driver for Display *NEW!*	DIL-30	5.04	4.04	3.14
AN7125-ND	10W, 2 Channel Audio Amp with Fin	SIL-12	3.46	2.77	2.16
AN7510-ND	1W, 2 Channel Audio Amp with Fin	16-Dip	1.60	1.28	.96
AN7511-ND	1W, 1 Channel Audio Amp with Fin	8-Dip	1.15	.96	.77
AN7512-ND	1W, 2 Channel Audio Amp with Fin	16-Dip	1.92	1.54	1.16
AN7513-ND	1W, 1 Channel Audio Amp	8-Dip	1.28	1.03	.77
AN7522N-ND	5W, 2 Channel Audio Amp with Fin	SIL-12	2.30	1.85	1.44
AN7523N-ND	4W, 1 Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN7586-ND	10W, 1 Channel Audio Amp with Fin	SIL-7	1.92	1.54	1.16
AN15851ACT-ND	4-Input AV Switch with RGB-YUV *NEW!*	36-US0	3.49	2.80	2.18
AN15851ATR-ND	4-Input AV Switch with RGB-YUV *NEW!*	36-US0	1977.00/1,000		
AN15852A-VT-ND	AV Switch with I2C Interface *NEW!*	QFH-80	7.48	5.99	5.06
AN17000ABFCT-ND	Audio Amplifier for Notebook	56-SOIC	3.46	2.77	2.16
AN17000ABFTR-ND	Audio Amplifier for Notebook	56-SOIC	5805.00/3,000		
AN17020AVBCT-ND	Audio Amplifier for Headphone	QUAD-16	1.98	1.59	1.20
AN17020AVBTR-ND	Audio Amplifier for Headphone	QUAD-16-SOIC	2064.00/2,000		
AN17880AE1CT-ND	Audio Amplifier for Headphone	16-SOIC	1.71	1.37	1.03
AN17880AE1TR-ND	Audio Amplifier for Headphone	16-SOIC	1774.00/2,000		

Panasonic® DC/DC CONVERTER ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN8011SE1CT-ND	2 Channel DC/DC Converter	16-SOIC	1.70	1.36	1.02
AN8011SE1TR-ND	2 Channel DC/DC Converter	16-SOIC	1764.00/2,000		
AN8013SHE1CT-ND	1 Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8013SHE1TR-ND	1 Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8014SE1CT-ND	1 Channel DC/DC Converter	16-SOIC	1.56	1.25	.94
AN8014SE1TR-ND	1 Channel DC/DC Converter	16-SOIC	1620.00/2,000		
AN8015SHE1CT-ND	1 Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8015SHE1TR-ND	1 Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8016NSHE1CT-ND	1 Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8016NSHE1TR-ND	1 Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8017SAE1CT-ND	2 Channel DC/DC Converter	SSONF-16D	1.87	1.50	1.12
AN8017SAE1TR-ND	2 Channel DC/DC Converter	SSONF-16D	1940.00/2,000		
AN8018SAE1CT-ND	2 Channel DC/DC Converter	SSONF-16D	1.87	1.50	1.12
AN8018SAE1TR-ND	2 Channel DC/DC Converter	SSONF-16D	1940.00/2,000		
AN8049FHNEBCT-ND	3 Channel DC/DC Converter	QFN-24	3.01	2.41	1.88
AN8049FHNEBTR-ND	3 Channel DC/DC Converter	QFN-24	3408.00/2,000		
AN8049SHE1CT-ND	3 Channel DC/DC Converter	SSOP-24D	2.30	1.85	1.44
AN8049SHE1TR-ND	3 Channel DC/DC Converter	SSOP-24D	1306.00/1,000		

Panasonic® VOLTAGE REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN78L04-ND	4V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L05-ND	5V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L06-ND	6V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L07-ND	7V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L08-ND	8V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L09-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L10-ND	10V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L12-ND	12V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L15-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L18-ND	18V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L20-ND	20V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L24-ND	24V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN79L04-ND	4V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L05-ND	5V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L06-ND	6V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L07-ND	7V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L08-ND	8V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L09-ND	9V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L10-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L12-ND	12V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L15-ND	15V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L18-ND	18V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L20-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L24-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN78L04M-ND	4V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L04ME1TR-ND	4V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L05M-ND	5V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L05ME1TR-ND	5V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L06M-ND	6V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L06ME1TR-ND	6V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L07M-ND	7V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L07ME1TR-ND	7V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L08M-ND	8V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L08ME1TR-ND	8V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L09M-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30

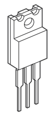
(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Panasonic® VOLTAGE REGULATORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN78L09ME1TR-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L10M-ND	10V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L10ME1TR-ND	10V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L12M-ND	12V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L12ME1TR-ND	12V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L15M-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L15ME1TR-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L18M-ND	18V, 100mA, Pos. General Purpose Voltage Regulator	TO-243	.50	.38	.28
AN78L18ME1TR-ND	18V, 100mA, Pos. General Purpose Voltage Regulator	TO-243	165.00/1,000		
AN78L20M-ND	20V, 100mA, Pos. General Purpose Voltage Regulator	TO-243	.50	.38	.28
AN78L20ME1TR-ND	20V, 100mA, Pos. General Purpose Voltage Regulator	TO-243	165.00/1,000		
AN78L24M-ND	24V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L24ME1TR-ND	24V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN79L04M-ND	4V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L04ME1TR-ND	4V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L05M-ND	5V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L05ME1TR-ND	5V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L06M-ND	6V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L06ME1TR-ND	6V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L07M-ND	7V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L07ME1TR-ND	7V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L08M-ND	8V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L08ME1TR-ND	8V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L09M-ND	9V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L09ME1TR-ND	9V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L10M-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L10ME1TR-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L12M-ND	12V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L12ME1TR-ND	12V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L15M-ND	15V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L15ME1TR-ND	15V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L18M-ND	18V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L18ME1TR-ND	18V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L20M-ND	20V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L20ME1TR-ND	20V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L24M-ND	24V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L24ME1TR-ND	24V, 100mA, Neg. General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN78M05NSP-ND	5V, 0.5A, Positive Output Voltage Regulator	SP3SU	1.07	.89	.72
AN78M05NSPE1TR-ND	5V, 0.5A, Positive Output Voltage Regulator	SP3SU	1389.00/3,000		
AN78M08NSP-ND	8V, 0.5A, Positive Output Voltage Regulator	SP3SU	1.07	.89	.72
AN78M08NSPE1TR-ND	8V, 0.5A, Positive Output Voltage Regulator	SP3SU	1389.00/3,000		
AN77L03-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L035-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L04-ND	4V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L045-ND	4.5V, 100mA, Positive LDO Voltage Regulator	TO-92	1.37	1.14	.92
AN77L05-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L06-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L07-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L08-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L09-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L10-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L12-ND	12V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77035SP-ND	3.5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN77035SPE1TR-ND	3.5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7705SP-ND	5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7705SPE1TR-ND	5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7706SP-ND	6V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7706SPE1TR-ND	6V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7707SP-ND	7V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7707SPE1TR-ND	7V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7708SP-ND	8V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7708SPE1TR-ND	8V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7709SP-ND	9V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7709SPE1TR-ND	9V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7710SP-ND	10V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7710SPE1TR-ND	10V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7712SP-ND	12V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7712SPE1TR-ND	12V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7715SP-ND	15V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7715SPE1TR-ND	15V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN77L03M-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L03ME1TR-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L035M-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L035ME1TR-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L04M-ND	4V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L04ME1TR-ND	4V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L045M-ND	4.5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L045ME1TR-ND	4.5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L05M-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L05ME1TR-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L06M-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L06ME1TR-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L07M-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L07ME1TR-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L08M-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L08ME1TR-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L09M-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L09ME1TR-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L10M-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L10ME1TR-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L12M-ND	12V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L12ME1TR-ND	12V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN8002-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8025-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8003-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8035-ND	3.5V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8004-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8045-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8005-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8006-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8007-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8008-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8085-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-92	.90	.75	.60
AN8009-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8010-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8002M-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8002M-E1TR-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8025M-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8025M-E1TR-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8003M-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8003M-E1TR-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8004M-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8004M-E1TR-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8045M-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8045M-E1TR-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8005M-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8005M-E1TR-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8006M-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8006M-E1TR-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8007M-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8007M-E1TR-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8008M-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8008M-E1TR-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8085M-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8085M-E1TR-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8009M-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8009M-E1TR-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8010M-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8010M-E1TR-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN80L18RMS-ND	1.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L18RMSTXTR-ND	1.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L19RMS-ND	1.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L19RMSTXTR-ND	1.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L20RMS-ND	2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L20RMSTXTR-ND	2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L21RMS-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L21RMSTXTR-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L22RMS-ND	2.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L22RMSTXTR-ND	2.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L25RMS-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L25RMSTXTR-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L28RMS-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L28RMSTXTR-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L29RMS-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L29RMSTXTR-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L30RMS-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L30RMSTXTR-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L31RMS-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L31RMSTXTR-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L32RMS-ND	3.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L32RMSTXTR-ND	3.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L33RMS-ND	3.3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L33RMSTXTR-ND	3.3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L34RMS-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L34RMSTXTR-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L35RMS-ND	3.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L35RMSTXTR-ND	3.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L36RMS-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L36RMSTXTR-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L48RMS-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L48RMSTXTR-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L49RMS-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L49RMSTXTR-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L50RMS-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L50RMSTXTR-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L51RMS-ND	5.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L51RMSTXTR-ND	5.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L52RMS-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L52RMSTXTR-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80M27RSP-ND	2.7V, 500mA, with On-Off, Low Power Loss, Positive Voltage Regulator	SP5SU	2.33	1.87	1.40
AN80M27RSPTXTR-ND	2.7V, 500mA, with On-Off, Low Power Loss, Positive Voltage Regulator	SP5SU	3579.00/3,000		
AN1431M-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-243	.87	.73	.58
AN1431M-E1TR-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-243	386.00/1,000		
AN1431T-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-92	.87	.73	.58
AN1433SSMTXLCT-ND	7-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1.07	.90	.72
AN1433SSMTXLTR-ND	7-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1395.00/3,000		

JRC / NJR Corporation VOLTAGE REGULATORS



TO-220F Full Molded Three Terminal Voltage Regulator

Full Molded Package, TO-220F was developed for high and medium power 3 pin linear voltage regulators. It is interchangeable with conventional TO-220, with the difference of radiation fin encapsulated completely by resin, offering the following benefits: • Ease of electrical isolation from nearby devices • Allowing higher density PCB layout • Increased humidity resistance compared to TO-220. • Enhanced manufacturability due to built-in electrical insulation from heat sink. *TO-220F has tinned leads for improved solderability.*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJM78L02A-ND	2.6V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L05A-ND	5V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L06A-ND	6V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L08A-ND	8V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L09A-ND	9V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L12A-ND	12V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L15A-ND	15V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L18A-ND	18V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L20A-ND	20V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L24A-ND	24V, 100mA, Pos. Voltage Regulator	TO-92	.36	.30	.24
NJM78L02UA-ND	2.6V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L05UA-ND	5V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L06UA-ND	6V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L08UA-ND	8V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L09UA-ND	9V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L12UA-ND	12V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L15UA-ND	15V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L18UA-ND	18V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L20UA-ND	20V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26
NJM78L24UA-ND	24V, 100mA, Pos. Voltage Regulator	SOT-89	.39	.33	.26

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

JRC / NJR Corporation VOLTAGE REGULATORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM78M05FA-ND	5V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M06FA-ND	6V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M08FA-ND	8V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M09FA-ND	9V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M12FA-ND	12V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M15FA-ND	15V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M18FA-ND	18V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M20FA-ND	20V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M24FA-ND	24V, 500mA, Pos. Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM7805FA-ND	5V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7806FA-ND	6V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7808FA-ND	8V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7809FA-ND	9V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7812FA-ND	12V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7815FA-ND	15V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7818FA-ND	18V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7820FA-ND	20V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7824FA-ND	24V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM79L05A-ND	5V, 100mA, Neg. Voltage Regulator	TO-92	.42	.35	.28
NJM79L06A-ND	6V, 100mA, Neg. Voltage Regulator	TO-92	.42	.35	.28
NJM79L08A-ND	8V, 100mA, Neg. Voltage Regulator	TO-92	.42	.35	.28
NJM79L09A-ND	9V, 100mA, Neg. Voltage Regulator	TO-92	.42	.35	.28
NJM79L12A-ND	12V, 100mA, Neg. Voltage Regulator	TO-92	.42	.35	.28
NJM79L15A-ND	15V, 100mA, Neg. Voltage Regulator	TO-92	.42	.35	.28
NJM79L18A-ND	18V, 100mA, Neg. Voltage Regulator	TO-92	.42	.35	.28
NJM79L24A-ND	24V, 100mA, Neg. Voltage Regulator	TO-92	.42	.35	.28
NJM79L05UA-ND	5V, 100mA, Neg. Voltage Regulator	SOT-89	.69	.58	.46
NJM79L06UA-ND	6V, 100mA, Neg. Voltage Regulator	SOT-89	.69	.58	.46
NJM79L08UA-ND	8V, 100mA, Neg. Voltage Regulator	SOT-89	.69	.58	.46
NJM79L09UA-ND	9V, 100mA, Neg. Voltage Regulator	SOT-89	.69	.58	.46
NJM79L12UA-ND	12V, 100mA, Neg. Voltage Regulator	SOT-89	.69	.58	.46
NJM79L15UA-ND	15V, 100mA, Neg. Voltage Regulator	SOT-89	.69	.58	.46
NJM79L18UA-ND	18V, 100mA, Neg. Voltage Regulator	SOT-89	.69	.58	.46
NJM79L24UA-ND	24V, 100mA, Neg. Voltage Regulator	SOT-89	.69	.58	.46
NJM79M05FA-ND	5V, 500mA, Neg. Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M06FA-ND	6V, 500mA, Neg. Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M08FA-ND	8V, 500mA, Neg. Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M09FA-ND	9V, 500mA, Neg. Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M12FA-ND	12V, 500mA, Neg. Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M15FA-ND	15V, 500mA, Neg. Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M18FA-ND	18V, 500mA, Neg. Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M24FA-ND	24V, 500mA, Neg. Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM7905FA-ND	5V, 1.5A, Neg. Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM7906FA-ND	6V, 1.5A, Neg. Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM7908FA-ND	8V, 1.5A, Neg. Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM7909FA-ND	9V, 1.5A, Neg. Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM7912FA-ND	12V, 1.5A, Neg. Voltage Regulator with Isolated Tab	TO-220F	.72	.60	.48
NJM7915FA-ND	15V, 1.5A, Neg. Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM7918FA-ND	18V, 1.5A, Neg. Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM7924FA-ND	24V, 1.5A, Neg. Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM317F-ND	Adjustable 1.5A, Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM431D-ND	Adjustable Precision Shunt Regulator	8-Dip	.48	.40	.32
NJM431E-ND	Adjustable Precision Shunt Regulator	8-SOIC	.42	.35	.28
NJM431L-ND	Adjustable Precision Shunt Regulator	TO-92	.39	.33	.26
NJM2352D-ND	Low Power Switching Regulator with Low Battery Detect.	8-Dip	.66	.55	.44
NJM2360D-ND	DC/DC Converter Control IC	8-Dip	.81	.68	.54

JRC / NJR Corporation SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM2211D-ND	FSK Demodulator/Tone Decoder	14-Dip	.93	.78	.62
NJM2211M-ND	FSK Demodulator/Tone Decoder	14-SOIC	1.62	1.35	1.08
NJM3517D2-ND	Stepper Motor Controller/Driver	16-Dip	5.07	4.23	3.38
NJM4151D-ND	Voltage-to-Frequency/Frequency-to-Voltage Converter	8-Dip	2.31	1.93	1.54
NJU3712D-ND	8-Bit, 25mA, Serial to Parallel Output Expander	16-Dip	1.80	1.50	1.20
NJU3712M-ND	8-Bit, 25mA, Serial to Parallel Output Expander	16-SOIC	1.68	1.40	1.12
NJU3716L-ND	16-Bit, 25mA, Serial to Parallel Output Expander	24-SDip	1.80	1.50	1.20
NJU3716M-ND	16-Bit, 25mA, Serial to Parallel Output Expander	24-SOIC	2.07	1.73	1.38
NJU3718L-ND	20-Bit, 25mA, Serial to Parallel Output Expander	28-SDip	2.67	2.23	1.78
NJU3718G-ND	20-Bit, 25mA, Serial to Parallel Output Expander	28-SOIC	2.25	1.88	1.50
NJM3770AD3-ND	Stepper Motor Driver	16-Dip (Batwing)	5.79	4.83	3.86
NJM3771D2-ND	Dual Stepper Motor Driver	22-Dip	13.20	11.00	8.80
NJM3771FM2-ND	Dual Stepper Motor Driver	28-PLCC	9.24	7.70	6.16
NJU6355ED-ND	Serial I/O Real Time Clock This serial I/O Real Time Clock is suitable for a 4-Bit microprocessor. It contains a counter, shift register, voltage regulator, voltage detector and interface controller. It requires a 32.768KHz crystal and 4 pins of microprocessor which can receive the data at any time when the microprocessor requires. The operating voltage is as wide as 2.4V, to 5.0V.	8-Dip	1.74	1.45	1.16
NJU7660D-ND	DC/DC Voltage Converter	8-Dip	.72	.60	.48
NJU7662D-ND	DC/DC Voltage Converter	8-Dip	1.47	1.23	.98
NJU9201BD-ND	3-1/2 Digit DVM for LCD Displays	40-Dip	5.04	4.20	3.36
NJU9201BM-ND	3-1/2 Digit DVM for LCD Displays	42-SOIC	5.07	4.23	3.38
NJU9202BD-ND	3-1/2 Digit DVM for LED Displays	40-Dip	5.04	4.20	3.36
NJU9202BM-ND	3-1/2 Digit DVM for LED Displays	42-SOIC	4.59	3.83	3.06
NJU9203BD-ND	3-1/2 Digit DVM for LCD Displays with Display Hold	40-Dip	5.22	4.35	3.48
NJU9203BM-ND	3-1/2 Digit DVM for LCD Displays with Display Hold	42-SOIC	5.46	4.55	3.64
NJU9204BD-ND	3-1/2 Digit DVM for LED Displays with Display Hold	40-Dip	5.04	4.20	3.36
NJU9204BM-ND	3-1/2 Digit DVM for LED Displays with Display Hold	42-SOIC	6.24	5.20	4.16
NJU39610D2-ND	Microstepping Motor Controller with Dual DAC	22-Dip	12.78	10.65	8.52
NJU39610FM2-ND	Microstepping Motor Controller with Dual DAC	28-PLCC	9.24	7.70	6.16

SHARP MICROELECTRONICS OF THE AMERICAS LDO REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PQ1K253M2ZP	425-1643-1-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K253M2ZP	425-1643-2-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K303M2ZP	425-1644-1-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K303M2ZP	425-1644-2-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K333M2ZP	425-1645-1-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K333M2ZP	425-1645-2-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K503M2ZP	425-1650-1-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K503M2ZP	425-1650-2-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1L253M2SP	425-1651-1-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L253M2SP	425-1651-2-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	210.00/1,000		
PQ1L303M2SP	425-1652-1-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L303M2SP	425-1652-2-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	210.00/1,000		
PQ1L333M2SP	425-1653-1-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L333M2SP	425-1653-2-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	210.00/1,000		
PQ1L503M2SP	425-1654-1-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L503M2SP	425-1654-2-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	210.00/1,000		
PQ1R18	425-1655-1-ND	1.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.90	.65	.40
PQ1R18	425-1655-2-ND	1.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1400.00/5,000		
PQ1R23	425-1656-1-ND	2.3V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.90	.65	.40
PQ1R23	425-1656-2-ND	2.3V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1400.00/5,000		
PQ1R25	425-1657-1-ND	2.5V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R25	425-1657-2-ND	2.5V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R27	425-1658-1-ND	2.7V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R27	425-1658-2-ND	2.7V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R28	425-1659-1-ND	2.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R28	425-1659-2-ND	2.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R30	425-1660-1-ND	3.0V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R30	425-1660-2-ND	3.0V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R33	425-1661-1-ND	3.3V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R33	425-1661-2-ND	3.3V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R38	425-1662-1-ND	3.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R38	425-1662-2-ND	3.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R42	425-1663-1-ND	4.2V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R42	425-1663-2-ND	4.2V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R47	425-1664-1-ND	4.7V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.98	.77	.51
PQ1R47	425-1664-2-ND	4.7V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1820.00/5,000		
PQ1R50	425-1665-1-ND	5.0V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R50	425-1665-2-ND	5.0V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1T181M2ZP	425-1666-1-ND	1.8V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	.91	.72	.47
PQ1T251M2ZP	425-1670-1-ND	2.5V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	.91	.72	.47
PQ1T251M2ZP	425-1670-2-ND	2.5V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	1014.00/3,000		
PQ1T301M2ZP	425-1674-1-ND	3.0V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	.91	.72	.47
PQ1T331M2ZP	425-1677-1-ND	3.3V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	.91	.72	.47
PQ1T501M2ZP	425-1686-1-ND	5.0V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	.91	.72	.47
PQ1T501M2ZP	425-1686-2-ND	5.0V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	1014.00/3,000		
PQ1U181M2ZP	425-1688-1-ND	1.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U181M2ZP	425-1688-2-ND	1.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U251M2ZP	425-1692-1-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U251M2ZP	425-1692-2-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U281M2ZP	425-1694-1-ND	2.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U281M2ZP	425-1694-2-ND	2.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U301M2ZP	425-1696-1-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U301M2ZP	425-1696-2-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U331M2ZP	425-1699-1-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U331M2ZP	425-1699-2-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U351M2ZP	425-1701-1-ND	3.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U351M2ZP	425-1701-2-ND	3.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U501M2ZP	425-1708-1-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U501M2ZP	425-1708-2-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1X251M2ZP	425-1710-1-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X251M2ZP	425-1710-2-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X281M2ZP	425-1711-1-ND	2.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X281M2ZP	425-1711-2-ND	2.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X291M2ZP	425-1712-1-ND	2.9V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X291M2ZP	425-1712-2-ND	2.9V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X301M2ZP	425-1713-1-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X301M2ZP	425-1713-2-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X331M2ZP	425-1714-1-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X331M2ZP	425-1714-2-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X451M2ZP	425-1719-1-ND	4.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X451M2ZP	425-1719-2-ND	4.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X501M2ZP	425-1720-1-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X501M2ZP	425-1720-2-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ3DZ13	425-1728-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ3DZ13U	425-1728-2-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ3DZ53	425-1729-5-ND	3.3V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ3DZ53U	425-1729-2-ND	3.3V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ3RD13	425-1732-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ3RD13B	425-1733-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	1.51	1.19	.86
PQ3RD23	425-1734-5-ND	3.3V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	1.71	1.43	1.00
PQ3RD083	425-1731-5-ND	3.3V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ3RF33	425-1735-5-ND	3.3V, 3.5A, LDO Reg. with ON/OFF Control	TO-220	2.83	1.88	1.53
PQ3TR5M3BZZ	425-1738-5-ND	3.3V, 0.5A, LDO Reg. with Reset @ 4.3V	SC-63	1.33	1.05	.76
PQ3TR5M4AZZ	425-1741-5-ND	3.3V, 0.5A, LDO Reg. with Reset	SC-63	1.33	1.05	.76
PQ5EV3	425-1742-5-ND	Adj., 3.5A, LDO Reg. with ON/OFF Control	TO-220	2.85	2.38	1.67
PQ5EV5	425-1743-5-ND	Adj., 5.0A, LDO Reg. with ON/OFF Control	TO-220	2.55	1.70	1.38
PQ5EV7	425-1744-5-ND	Adj., 7.5A, LDO Reg. with ON/OFF Control	TO-220	2.85	1.90	1.54
PQ5RS1A	425-1745-5-ND	5V, 0.15A, LDO Reg. with Reset @ 4.7	TO-220	1.30	1.02	.74
PQ6RD083	425-1752-5-ND	6.3V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ6RD83B	425-1753-5-ND	6.3V, 0.8A, LDO Reg. with ON/OFF Control	TO-220†	1.44	1.13	.82
PQ7DV5	425-1756-5-ND	Adj., 5A, LDO Reg. with ON/OFF Control	TO-3P	5.10	3.39	2.76
PQ7DV10	425-1754-5-ND	Adj., 10A, LDO Reg. with ON/OFF Control	TO-3P	7.75	5.15	4.19
PQ7DV10B	425-1755-5-ND	Adj., 10A, LDO Reg. with ON/OFF Control	TO-3P†	7.63	5.07	4.12
PQ7RV4	425-1757-5-ND	Adj., 4.6A, LDO Reg.	TO-220	3.40	2.26	1.84
PQ7VZ5U	425-1758-1-ND	Adj., .5A, LDO Reg. with ON/OFF Control	SC-63	2.03	1.60	1.05
PQ7VZ5U	425-1758-2-ND	Adj., .5A, LDO Reg. with ON/OFF Control	SC-63	2262.00/3,000		
PQ05DZ11	425-1589-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ05DZ51	425-1590-5-ND	5.0V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ05RA1	425-1591-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.77	1.48	1.04
PQ05RA11	425-1592-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.95	1.63	1.14
PQ05RD08	425-1593-5-ND	5.0V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ05RD11	425-1594-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.54	1.21	.88
PQ05RD1B	425-1595-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	1.44	1.13	.82
PQ05RD21	425-1596-5-ND	5.0V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	1.71	1.43	1.00
PQ05RR1	425-1597-5-ND	5.0V, 1.0A, LDO Reg. with Reset, 5%	TO-220	1.89	1.58	1.11
PQ05RR11	425-1598-5-ND	5.0V, 1.0A, LDO Reg. with Reset, 2.5%	TO-220	2.10	1.75	1.23
PQ05RR12	425-1599-5-ND	5.0V, 1.0A, LDO Reg. with Reset, 5%	TO-220	2.04	1.70	1.19
PQ05RR13	425-1600-5-ND	5.0V, 1.0A, LDO Reg. with Reset, 2.5%	TO-220	2.13	1.78	1.25
PQ05VY3H3ZZ	425-1602-5-ND	5.0V, 3.5A, LDO Reg. with ON/OFF Control	TO-263	2.88	2.40	1.68
PQ05VY053ZZ	425-1601-5-ND	5.0V, 5.0A, LDO Reg. with ON/OFF Control	TO-263	2.55	1.70	1.38

* Tape in Box † Lead Form

(Continued)

SHARP MICROELECTRONICS OF THE AMERICAS

LDO REGULATORS *(Continued)*

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PQ07RX11	425-1609-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.53	1.28	.90
PQ07VR5MAZZ	425-1610-5-ND	Adj., 0.5A, LDO Reg. with Reset @ 4.2V	SC-63	1.26	.99	.72
PQ07VZ012ZZ	425-1614-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.72	1.35	.98
PQ09DZ11	425-1616-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ09DZ1U	425-1616-2-ND	9V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ09DZ51	425-1617-5-ND	9V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ09DZ51	425-1617-2-ND	9V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1482.00/3,000		
PQ09RA1	425-1618-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control, 5%	TO-220	1.77	1.48	1.04
PQ09RA11	425-1619-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control, 2.5%	TO-220	1.95	1.63	1.14
PQ09RD08	425-1620-5-ND	9V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ09RD11	425-1621-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.58	1.24	.90
PQ09RD1B	425-1622-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	1.47	1.16	.84
PQ09RD21	425-1623-5-ND	9V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	1.71	1.43	1.00
PQ12DZ11	425-1624-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ12DZ11	425-1624-2-ND	12V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1638.00/3,000		
PQ12DZ51	425-1625-5-ND	12V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ12DZ51	425-1625-2-ND	12V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1443.00/3,000		
PQ12RA1	425-1626-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control, 5%	TO-220	1.77	1.48	1.04
PQ12RA11	425-1627-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control, 2.5%	TO-220	1.95	1.63	1.14
PQ12RD8S	425-1632-5-ND	12V, 0.8A, LDO Reg. with ON/OFF Control	TO-220†	1.12	.88	.64
PQ12RD08	425-1628-5-ND	12V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ12RD11	425-1629-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.54	1.21	.88
PQ12RD1B	425-1630-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	1.75	1.38	1.00
PQ12RD21	425-1631-5-ND	12V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	1.71	1.43	1.00
PQ15RF15	425-1633-5-ND	15V, 1.0A, LDO Reg. with ON/OFF Control, 5%	TO-220	1.92	1.60	1.12
PQ15RF16	425-1634-5-ND	15V, 1.0A, LDO Reg. with ON/OFF Control, 2.5%	TO-220	2.04	1.70	1.19
PQ15RF1G	425-1635-5-ND	15V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	2.16	1.80	1.26
PQ15RF2	425-1636-5-ND	15V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	2.25	1.88	1.32
PQ15RF21	425-1637-5-ND	15V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ15RW08	425-1638-5-ND	Adj., 0.8A, LDO Reg.	TO-220	1.40	1.10	.80
PQ15RW11	425-1639-5-ND	Adj., 1.0A, LDO Reg.	TO-220	1.40	1.10	.80
PQ15RW1B	425-1640-5-ND	Adj., 1.0A, LDO Reg.	TO-220†	1.58	1.24	.90
PQ15RW21	425-1641-5-ND	Adj., 2.0A, LDO Reg.	TO-220	1.74	1.45	1.02
PQ010FZ5MZZ	425-1551-5-ND	1.0V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.16	.91	.66
PQ010FZ01ZZ	425-1550-5-ND	1.0V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.30	1.02	.74
PQ012FZ5MZZ	425-1553-5-ND	1.2V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.16	.91	.66
PQ012FZ01ZZ	425-1552-5-ND	1.2V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.30	1.02	.74
PQ015EF01SZ	425-1554-5-ND	1.5V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ015EH01ZZ	425-1555-5-ND	1.5V, 1.0A, LDO Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ015EH02ZZ	425-1556-5-ND	1.5V, 2.0A, LDO Reg. with ON/OFF Control	TO-263	1.59	1.33	.93
PQ015EZ01ZZ	425-1557-5-ND	1.5V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ015EZ1HZZ	425-1558-5-ND	1.5V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ015EZ5MZZ	425-1559-5-ND	1.5V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ015Y3H3ZZ	425-1561-5-ND	1.5V, 3.5A, LDO Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ015YZ01ZZ	425-1562-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.30	1.02	.74
PQ015YZ5MZZ	425-1563-5-ND	1.5V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.16	.91	.66
PQ018EF01SZ	425-1564-5-ND	1.8V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ018EH01ZZ	425-1565-5-ND	1.8V, 1.0A, LDO Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ018EH02ZZ	425-1566-5-ND	1.8V, 2.0A, LDO Reg. with ON/OFF Control	TO-263	1.59	1.33	.93
PQ018EZ1HZZ	425-1568-5-ND	1.8V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ018EZ5MZZ	425-1569-5-ND	1.8V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ018EZ01ZZ	425-1567-5-ND	1.8V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ025EF01SZ	425-1570-5-ND	2.5V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ025EH01ZZ	425-1571-5-ND	2.5V, 1.0A, LDO Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ025EH02ZZ	425-1572-5-ND	2.5V, 2.0A, LDO Reg. with ON/OFF Control	TO-263	1.59	1.33	.93
PQ025EZ1HZZ	425-1574-5-ND	2.5V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ025EZ5MZZ	425-1575-5-ND	2.5V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ025EZ01ZZ	425-1573-5-ND	2.5V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ025Y3H3ZZ	425-1577-5-ND	2.5V, 3.5A, LDO Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ030EZ01ZZ	425-1578-5-ND	3.0V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ030EZ1HZZ	425-1579-5-ND	3.0V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ030EZ5MZZ	425-1580-5-ND	3.0V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ033EF01SZ	425-1581-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ033ES1MWP	425-1582-1-ND	3.3V, 150mA, LDO Reg.	TO-92	.99	.72	.44
PQ033ES1MWP	425-1582-3-ND*	3.3V, 150mA, LDO Reg.	TO-92	616.00/2,000		
PQ033EZ01ZZ	425-1583-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ033EZ1HZZ	425-1584-5-ND	3.3V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ033EZ5MZZ	425-1585-5-ND	3.3V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ033Y3H3ZZ	425-1587-5-ND	3.3V, 3.5A, LDO Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ033Y053ZZ	425-1586-5-ND	3.3V, 5.0A, LDO Reg. with ON/OFF Control	SC-63	2.55	1.70	1.38
PQ050ES1MWP	425-1588-1-ND	5.0V, 150mA, LDO Reg.	TO-92	.99	.72	.44
PQ050ES1MWP	425-1588-3-ND*	5.0V, 150mA, LDO Reg.	TO-92	616.00/2,000		
PQ070XH01ZZ	425-1604-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ070XH02ZZ	425-1605-5-ND	Adj., 2.0A, LDO Reg. with ON/OFF Control	TO-263	1.59	1.33	.93
PQ070XZ1HZZ	425-1607-5-ND	Adj., 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ070XZ01ZZ	425-1606-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ070XZ5MZZ	425-1608-5-ND	Adj., 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ20RX05	425-1721-5-ND	Adj., 0.5A, LDO Reg. with ON/OFF Control	TO-220	1.61	1.27	.92
PQ20RX11	425-1722-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.68	1.32	.96
PQ20WZ11	425-1723-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ20WZ1U	425-1723-2-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ20WZ51	425-1724-5-ND	Adj., 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ20WZ5U	425-1724-2-ND	Adj., 0.5A, LDO Reg. with ON/OFF Control	SC-63	1443.00/3,000		
PQ25VB012FZ	425-1725-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.77	1.48	1.04
PQ25VB8M2FZ	425-1726-5-ND	Adj., 0.8A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.40	.98
PQ30RV31	425-1727-5-ND	Adj., 3.0A, LDO Reg.	TO-220	3.08	2.05	1.67

* Tape in Box † Lead Form

SHARP MICROELECTRONICS OF THE AMERICAS

CHOPPER REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PQ1CG2032FZ	425-1759-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CG2032RZ	425-1760-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CG21H2FZ	425-1761-5-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control	TO-220	2.04	1.70	1.19
PQ1CG21H2RZ	425-1762-5-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control	TO-220	1.92	1.60	1.12
PQ1CG38M2FZ	425-1765-5-ND	Adj., 0.8A, Chopper Reg. with ON/OFF Control	TO-220	1.65	1.38	.97
PQ1CG38M2RZ	425-1766-5-ND	Adj., 0.8A, Chopper Reg. with ON/OFF Control	TO-220	1.65	1.38	.97
PQ1CG3032FZ	425-1763-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CG3032RZ	425-1764-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CY1032ZZ	425-1767-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-263	2.52	2.10	1.47
PQ1CZ21H2ZZ	425-1768-5-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control	SC-63	2.43	2.03	1.42
PQ1CZ38M2ZZ	425-1769-5-ND	Adj., 0.8A, Chopper Reg. with ON/OFF Control	SC-63	1.72	1.35	.98
PQ2CF1	425-1770-5-ND	Adj., 2.5A, Chopper Reg.	TO-220	3.58	2.38	1.94

National Semiconductor™

UARTs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PC16550DN-ND	UART	40-Dip	6.20	4.72	3.60
PC16550DV-ND	UART	44-PLCC	6.20	4.72	3.60
PC16552DV-ND	Dual UART	44-PLCC	8.23	6.51	5.22
PC16552DVXTR-ND	Dual UART	44-PLCC	2450.00/500		

National Semiconductor™

A/D AND D/A CONVERTERS

A/D Converters

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADC10D020CIVS-ND	Dual 10-Bit, 20MSPS, 150mW A/D Converter	48-TQFP	9.56	8.19	7.27
ADC10D040CIVS-ND	Dual 10-Bit, 40MSPS, 267mW A/D Converter	48-TQFP	14.96	12.83	11.38
ADC12H030CIWM-ND	12-Bit, A/D Converter, Config.	16-SOIC	7.58	6.00	4.81
ADC12H034CIWM-ND	12-Bit, A/D Converter, 4-Channel	24-SOIC	7.58	6.00	4.81
ADC12H038CIWM-ND	12-Bit, A/D Converter, 8-Channel	28-SOIC	7.79	6.16	4.94
ADC12L038CIWM-ND	12-Bit, A/D Converter, 8-Channel	24-SOIC	7.39	5.85	4.69
ADC12L063CIVY-ND	12-Bit, 62MSPS, 354mW A/D Converter with Internal Sample and Hold	32-LQFP	24.45	22.82	21.19
ADC12L066CIVY-ND	12-Bit, 66MSPS, 450 Bandwidth A/D Converter with Internal Sample and Hold	32-LQFP	25.80	24.08	22.36
ADC0801LCN-ND	8-Bit, µP Compatible A/D Converters, 1/4 LSB	20-Dip	10.14	8.02	6.43
ADC0802LCN-ND	8-Bit, µP Compatible A/D Converters, 1/2 LSB	20-Dip	5.84	4.62	3.70
ADC0802LCWM-ND	8-Bit, Compatible A/D Converter, 1/2 LSB	20-SOIC	5.50	4.35	3.49
ADC0803LCN-ND	8-Bit, A/D Converter, 1/2 LSB	20-Dip	4.85	3.69	2.82
ADC0804LCJ-ND	8-Bit, A/D Converter, 1 LSB	20-CDip	6.15	4.68	3.57
ADC0804LCN-ND	8-Bit, A/D Converter, 1 LSB	20-Dip	2.60	1.98	1.51
ADC0804LCWM-ND	8-Bit, A/D Converter, 1 LSB	20-SOIC	2.50	1.90	1.45
ADC0805LCN-ND	8-Bit, A/D Converter, 1 LSB	20-Dip	4.38	3.33	2.54
ADC0808CCN-ND	8-Bit, µP Compatible A/D Conv. with 8-Ch. Mux., 1/2 LSB.	28-Dip	5.58	4.24	3.24
ADC0808CCV-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1/2 LSB	28-PLCC	5.93	4.51	3.44
ADC0809CCN-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1 LSB.	28-Dip	4.18	3.18	2.43
ADC0809CCV-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1 LSB	28-PLCC	5.55	4.22	3.22
ADC0816CCN-ND	8-Bit, A/D Converter with 16-Channel Multiplexer, 1/2 LSB	40-Dip	11.46	9.83	—
ADC0817CCN-ND	8-Bit, A/D Converter with 16-Channel Multiplexer, 1/2 LSB.	40-Dip	7.98	6.31	—
ADC0820BCWM-ND	8-Bit, A/D Converter, 1/2 LSB.	20-SOIC	5.25	4.15	3.33
ADC0820CCN-ND	8-Bit, High Speed MPU Comp. A/D, 1 LSB	20-Dip	3.48	2.65	2.02
ADC0820CCWM-ND	8-Bit, High Speed A/D Converter, 1 LSB	20-SOIC	3.30	2.51	1.92
ADC0831CCN-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options	8-Dip	2.65	2.02	1.54
ADC0831CCWM-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options	14-SOIC	2.53	1.92	1.47
ADC0832CCWM-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options, 2-Ch	14-SOIC	2.83	2.15	1.64
ADC0832CIWM-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options, 2-Ch.	14-SOIC	3.23	2.46	1.88
ADC0834BCN-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options, 4-Ch.	14-Dip	3.85	2.93	2.24
ADC0834CCWM-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options, 4-Ch.	14-SOIC	3.45	2.63	2.01
ADC0838CCN-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options, 8-Ch.	20-Dip	2.63	2.00	1.53
ADC0838CCV-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options, 8-Ch.	20-PLCC	3.78	2.87	2.19
ADC0838CCWM-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options, 8-Ch.	20-SOIC	3.15	2.40	1.83
ADC0844CCJ-ND	8-Bit, A/D Converter, MPU Compatible 4-Channel	20-CDip	9.85	7.79	—
ADC0844CCN-ND	8-Bit, A/D Converter, MPU Compatible 4-Channel	20-Dip	4.40	3.35	—
ADC0848BCV-ND	8-Bit, µP Compatible A/D Conv. with Mux. Options, 1/2 LSB.	28-PLCC	7.94	6.28	—
ADC0848BCN-ND	8-Bit, µP Compatible A/D Conv. with Mux. Options, 1/2 LSB	24-Dip	5.29	4.19	—
ADC0848CCN-ND	8-Bit, µP Compatible A/D Conv. with Mux. Options, 1 LSB	24-Dip	4.83	3.67	—
ADC0848CCV-ND	8-Bit, µP Compatible A/D Conv. with Mux. Options, 1 LSB.	28-PLCC	5.38	4.09	—
ADC1001CCJ-ND	10-Bit, A/D Conv., Microprocessor Compatible, Ind. Temp.	20-CDip	24.00	22.40	—
ADC1001CCJ-1-ND	10-Bit, A/D Converter, Microprocessor Compatible	20-CDip	17.19	14.73	—
ADC1005BCJ-1-ND	10-Bit, A/D 1/2 LSB	20-CDip	15.15	14.14	—
ADC1005CCJ-1-ND	10-Bit, A/D 1 LSB	20-CDip	13.42	11.51	—
ADC1061CIN-ND	10-Bit, High Speed µP Compat A/D Converter with Track	20-Dip	5.88	4.47	3.41
ADC1241CIJ-ND	12-Bit, A/D with Sample and Hold Sign	28-CDip	12.51	10.73	9.51
ADC1251CIJ-ND	12-Bit, Self-Calibrating Plus Sign µP Compatible A/D	24-CDip	14.79	12.68	11.24
ADC08031CIWM-ND	8-Bit, A/D Converter Single Channel w/T/H	14-SOIC	2.58	1.96	1.50
ADC08032CIWM-ND	8-Bit, A/D Converter 2-Channel w/T/H	14-SOIC	2.78	2.11	1.61
ADC08038CIWM-ND	8-Bit, A/D Converter 8-Channel w/T/H	20-SOIC	3.28	2.49	1.90
ADC08060CIMT-ND	8-Bit, 20-60MSPS, 1.3mW/MSPS A/D Converter	24-TSSOP	4.05	3.08	2.35
ADC08062CIWM-ND	8-Bit, A/D Converter 2-Channel w/S/H	20-SOIC	3.90	2.97	2.27
ADC08100CIMTC-ND	8-Bit, A/D Converter, 100MSPS, 1.3mW	24-TSSOP	10.48	8.29	6.64
ADC08131CIWM-ND	8-Bit, High Speed A/D Converter	14-SOIC	3.28	2.49	1.90
ADC08134CIWM-ND	8-Bit, High Speed Serial In/Out A/D Converter w/ Mux Option	14-SOIC	3.28	2.49	1.90
ADC08200CIMT-ND	8-Bit, 20-200MSPS, 1.05mW/MSPS A/D Converter	24-TSSOP	15.00	14.00	13.00
ADC08351CIMTC-ND	8-Bit, A/D Converter	20-TSSOP	5.08	3.86	2.95
ADC08831IM-ND	8-Bit, Serial I/O A/D Converter, 1 Input	8-SOIC	2.79	2.07	1.53
ADC08831IMMCT-ND	8-Bit, Serial I/O A/D Converter, 1 Input	8-MSOP	2.79	2.07	1.53
ADC08831IMMTR-ND	8-Bit, Serial I/O A/D Converter, 1 Input	8-MSOP	1152.00/1,000		
ADC08831IN-ND	8-Bit, Serial I/O A/D Converter, 1 Input	8-Dip	2.79	2.07	1.53
ADC08831IWM-ND	8-Bit, Serial I/O A/D Converter, 1 Input	14-SOIC	2.79	2.07	1.53
ADC08832IM-ND	8-Bit, Serial I/O A/D Converter, 2 Input	8-SOIC	2.79	2.07	1.53
ADC08832IMMCT-ND	8-Bit, Serial I/O A/D Converter, 2 Input	8-MSOP	2.79	2.07	1.53
ADC08832IMMTR-ND	8-Bit, Serial I/O A/D Converter, 2 Input	8-MSOP	1152.00/1,000		
ADC08832IN-ND	8-Bit, Serial I/O A/D Converter, 2 Input	8-Dip	2.79	2.07	1.53
ADC08832IWM-ND	8-Bit, Serial I/O A/D Converter	14-SOIC	2.79	2.07	1.53
ADC10030CIVT-ND	10-Bit, A/D Converter	32-LQFP	8.55	6.76	5.42
ADC10062CIWM-ND	10-Bit, A/D Converter	24-SOIC	5.46	4.32	3.46
ADC10158CIN-ND	10-Bit, Plus Sign 4µS ADC with 4 or 8-Chan. Mux, Track	28-Dip	5.54	4.39	3.52
ADC10158CIWM-ND	10-Bit, Plus Sign 4µS ADC with 4 or 8-Chan. Mux, Track	28-SOIC	5.54	4.39	3.52
ADC10221CIVT-ND	10-Bit, A/D Converter	32-LQFP	5.99	4.74	3.80
ADC10321CIVT-ND	10-Bit, A/D Converter	32-LQFP	6.59	5.22	4.18
ADC10461CIWM-ND	10-Bit, A/D Converter	20-SOIC	6.20	4.72	3.60
ADC10464CIWM-ND	10-Bit, 600nS A/D Converter with Input Mux	28-SOIC	5.71	4.52	3.62
ADC10662CIWM-ND	10-Bit, 360nS A/D Converter with Input Mux	24-SOIC	5.40	4.27	—
ADC10664CIWM-ND	10-Bit, 360nS A/D Converter with Input Mux	28-SOIC	5.40	4.27	—
ADC10731CIWM-ND	10-Bit, Serial I/O A/D Converter	16-SOIC	4.40	3.35	2.56
ADC10738CIWM-ND	10-Bit, Serial I/O A/D Converter	24-SOIC	4.40	3.35	2.56
ADC1175-50CIJM-ND	8-Bit, A/D Converter	SOP-24	5.23	3.98	3.04
ADC1175-50CIMT-ND	8-Bit, A/D Converter	24-SSOP	5.23	3.98	3.04
ADC12032CIWM-ND	12-Bit, A/D Converter	20-SOIC	6.99	5.53	4.43
ADC12034CIN-ND	12-Bit, A/D Converter	24-Dip	9.19	7.88	6.99
ADC12038CIWM-ND	12-Bit, A/D Converter	28-SOIC	7.29	5.77	4.62
ADC12062CIV-ND	12-Bit, 1MHz 75mW ADC with Input Mux and S&H.	44-PLCC	9.53	7.54	—
ADC12130CIN-ND	12-Bit, Self-calibrating A/D Plus Sign Serial I/O	16-Dip	7.18	5.68	—
ADC12138CIN-ND	12-Bit, Self-calibrating A/D Plus Sign Serial I/O	28-Dip	7.39	5.85	—
ADC12138CIWM-ND	12-Bit, Self-calibrating A/D Plus Sign Serial I/O	28-SOIC	7.39	5.85	—

(Continued)

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National Semiconductor™ — A/D AND D/A CONVERTERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADC12441CIJ-ND	12-Bit, Dynam. Tested Self-Calibrating Plus Sign A/D Conv.	28-CDip	11.90	10.20	9.05
ADC12451CIJ-ND	12-Bit, Dynam. Tested Self-Calibrating Plus Sign A/D Conv.	24-CDip	14.79	12.68	11.24
ADC12662CIV-ND	12-Bit, 1.5MHz, 200mW A/D Converter with Input Multiplexer and Sample/Hold	44-PLCC	9.36	8.03	7.12
ADCV0831M6CT-ND	8-Bit, Serial I/O A/D Converter	SOT-23-6	2.90	2.21	1.69
ADCV0831M6TR-ND	8-Bit, Serial I/O A/D Converter	SOT-23-6	1461.60/1,000		

D/A Converters

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC0800LCM-ND	8-Bit, D/A Converter	16-SOIC	1.65	1.21	.88
DAC0800LCMXTR-ND	8-Bit, D/A Converter	16-SOIC	1402.50/2,500		
DAC0800LCN-ND	8-Bit, D/A Converter 0.19% Linearity	16-Dip	1.80	1.32	.96
DAC0802LCM-ND	8-Bit, D/A Converter	16-SOIC	1.61	1.20	—
DAC0802LCN-ND	8-Bit, D/A Converter	16-Dip	1.74	1.29	.96
DAC0808LCM-ND	8-Bit, D/A Converter	16-SOIC	1.58	1.16	.84
DAC0808LCN-ND	8-Bit, D/A Converter 0.19% Linearity	16-Dip	1.73	1.27	.92
DAC0830LCN-ND	8-Bit, µP Compatible Double Buffered D/A Converter	20-Dip	6.18	4.70	—
DAC0832LCN-ND	8-Bit, µP Compatible D/A Converter 0.20% Linearity	20-Dip	2.98	2.27	—
DAC0832LCWM-ND	8-Bit, µP Compatible D/A Converter	20-SOIC	2.88	2.19	—

MICROCHIP — CMOS LCD DRIVERS

The AY0438 is a CMOS LSI circuit that drives a liquid crystal display, usually under microprocessor control. The part acts as a smart peripheral that drives up to 32 LCD segments. It needs only three control lines due to its serial input construction. It latches the data to be displayed and relieves the microprocessor from the task of generating the required waveforms. • Drives up to 32 LCD segments of arbitrary configuration • CMOS, NMOS and TTL compatible inputs • Cascadable • On-chip oscillator • Requires only three control lines • Can be used to drive relays, solenoids, print head drives, etc.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AY0438/L-ND	32-Segment CMOS LCD Driver	44-PLCC	5.48	4.72	3.93
AY0438/P-ND	32-Segment CMOS LCD Driver	40-Dip	4.00	3.33	2.78
AY0438-I/L-ND	32-Segment CMOS LCD Driver, Industrial Temp.	44-PLCC	5.75	4.96	4.13
AY0438-I/P-ND	32-Segment CMOS LCD Driver, Industrial Temp.	40-Dip	4.20	3.50	2.92

EPSON ELECTRONICS AMERICA, INC. — REAL TIME CLOCK MODULES

Digi-Key Part No.	Description
SE3231-ND SE3232-ND SE3241-ND SE3242-ND	**Features:** • The built-in quartz crystal makes board design easy • Direct bus-compatibility (120 nSec access time) • Interrupt masking • 30 seconds error adjustment function 18 pin dual in line plastic package (RTC-72421) • 24 pin SOP plastic package (RTC-72423) • Capable of withstanding reflow temps. of 260°C or 20 seconds (RTC-72423) **Specifications: Power Supply** VDD: In operating temp.: 4.5 ~ 5.5V **Data-Holding** VDH: In operating temp.: 2.0 ~ 5.5V. **Op. Temp.:** tOPR: –40°C ~ +85°C **Freq. Tolerance:** 72421A: ±10; 72421B: ±50; 72423A: ±20; 72423B: ±50.
SE3245CT-ND SE3245TR-ND	**Features:** • Built-in crystal allows adjustment-free efficient operation • Automatic leap year correction • Output selectable between 32.768Khz/1 Hz • **Operating Voltage Range:** 2.5V, to 5.5V • **Supply Voltage Detection Voltage:** 1.7V, ±0.3V • **Frequency Tolerance:** 5+/-10ppm • **Package:** 14-SOP

Frequency Tolerance	Package	Digi-Key Part No.	Price Each★ 1	10	50	100	Digi-Key Part No.	T & R Pricing★ 1,000	Epson Part No.
±10 ppm	18-Dip	SE3231-ND	7.62	6.35	4.51	4.06	—	—	RTC-72421A
±50 ppm	18-Dip	SE3232-ND	7.05	5.88	4.18	3.76	—	—	RTC-72421B
±20 ppm	24-SOP	SE3241-ND	8.55	7.13	5.07	4.56	—	—	RTC-72423A
±50 ppm	24-SOP	SE3242-ND	7.50	6.25	4.44	4.00	—	—	RTC-72423B
5+/-10 ppm	14-SOP	SE3245CT-ND	5.04	4.32	3.60	3.24	SE3245TR-ND	2400.00	RTC-4543SA-A0

National Semiconductor™ — INTERFACE CHIPS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DP8392CN-ND	Coax Transceiver Interface	16-Dip	5.61	4.44	3.56
DP83815DVNG-ND	10/100Mb, Integrated PCI Ethernet Media Access Controller and Physical Layer	144-TQFP	8.40	6.64	5.32
DP83902AV-ND	Serial Network Interface Cont. for Twisted Pair	84-PLCC	15.66	13.43	11.91
DP83902AVLJ-ND	Serial Network Interface Cont. for Twisted Pair	100-PQFP	15.40	13.20	11.71
DP8573AN-ND	RealTime Clock	24-Dip	12.51	10.73	9.51
DS14C88M-ND	Quad CMOS Line Driver	14-SOIC	.99	.73	.53
DS14C88MXTR-ND	Quad CMOS Line Driver	14-SOIC	844.69/2,500		
DS14C88N-ND	Quad CMOS Line Driver	14-Dip	.99	.73	.53
DS14C89AM-ND	Quad CMOS Line Receiver	14-SOIC	.99	.73	.53
DS14C89AMXTR-ND	Quad CMOS Line Receiver	14-SOIC	844.69/2,500		
DS14C89AN-ND	Quad CMOS Line Receiver	14-Dip	.99	.73	.53
DS14C232CM-ND	Low Power +5V, Power TIA/EIA-232 Dual Driver/Receiver	16-SOIC	1.55	1.15	.85
DS14C232CMXTR-ND	Low Power +5V, Power TIA/EIA-232 Dual Driver/Receiver	16-SOIC	1562.50/2,500		
DS14C232CN-ND	EIA232 Dual Driver/Receiver Low Power	16-Dip	1.55	1.15	.85
DS14C232TM-ND	EIA232 Dual Driver/Receiver Low Power	16-SOIC	1.71	1.27	.94
DS14C238WM-ND	Single Supply TIA/EIA-232 4x4 Driver/Receiver	16-SOIC	3.93	2.99	2.28
DS14C238WMXTR-ND	Single Supply TIA/EIA-232 4x4 Driver/Receiver	16-SOIC	1978.20/1,000		
DS14C241WM-ND	Single Supply TIA/EIA-232 4x5 Driver/Receiver	28-SOIC	5.25	4.15	3.33
DS14C335MSA-ND	3.3V, Supply TIA/EIA-232 3x5 Driver/Receiver	28-SSOP	4.60	3.50	2.67
DS14C535MSA-ND	5V, Supply EIA/TIA-232 3x5 Driver/Receiver	28-SSOP	5.45	4.15	3.17
DS26C31TM-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1.35	.99	.72
DS26C31TMXTR-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1147.50/2,500		
DS26C31TN-ND	CMOS Quad RS422 Line Driver	16-Dip	1.35	.99	.72
DS26C32ATM-ND	CMOS Quad RS422 Receiver	16-SOIC	1.35	.99	.72
DS26C32ATMXTR-ND	CMOS Quad RS422 Receiver	16-SOIC	1147.50/2,500		
DS26C32ATN-ND	Quad Differential Line Receiver	16-Dip	1.35	.99	.72
DS26LS31CM-ND	Quad High Speed Differential Line Driver	16-SOIC	1.08	.78	.57
DS26LS31CMXTR-ND	Quad High Speed Differential Line Driver	16-SOIC	798.00/2,500		
DS26LS31CN-ND	Quad High Speed Differential	16-Dip	1.08	.78	.57
DS26LS32ACM-ND	Quad Differential Line Receiver	16-SOIC	1.08	.78	.57
DS26LS32ACMXTR-ND	Quad Differential Line Receiver	16-SOIC	798.00/2,500		
DS26LS32ACN-ND	Quad Differential Line Receiver	16-Dip	1.08	.78	.57
DS26LS32CM-ND	Quad Differential Line Driver	16-SOIC	1.08	.78	.57
DS26LS32CN-ND	Quad Differential Line Receiver	16-Dip	1.08	.78	.57
DS26LV31TM-ND	3V, Enhanced Quad CMOS Differential Line Driver	16-SOIC	1.86	1.38	1.02
DS26LV32ATM-ND	3V, Enhanced Quad CMOS Differential Line Receiver	16-SOIC	1.86	1.38	1.02
DS34C86TM-ND	Quad CMOS Differential Line Receiver	16-SOIC	1.86	1.38	1.02
DS34C86TMXTR-ND	Quad CMOS Differential Line Receiver	16-SOIC	1875.00/2,500		
DS34C86TN-ND	Quad CMOS Differential Line Receiver	16-Dip	1.86	1.38	1.02
DS34C87TM-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1.86	1.38	1.02
DS34C87TMXTR-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1875.00/2,500		
DS34C87TN-ND	CMOS Quad Tri-State Differential Line Driver	16-Dip	1.92	1.43	1.06
DS34LV86TM-ND	3V, Enhanced Quad CMOS Differential Line Receiver	16-SOIC	3.01	2.24	1.65
DS34LV87TM-ND	Enhanced Quad CMOS Differential Line Driver	16-SOIC	3.01	2.24	1.65
DS36C200M-ND	Dual High Speed Bi-Directional Diff. Transceiver	14-SOIC	2.75	2.09	1.60
DS36C278M-ND	Low Power Multipoint EIA-RS-485 Transceiver	8-SOIC	2.58	1.96	1.50
DS36C278N-ND	Low Power Multipoint EIA-RS-485 Transceiver	8-Dip	2.58	1.96	1.50
DS36C278TM-ND	Multipoint EIA Low Power Transceiver	8-SOIC	2.58	1.96	1.50
DS36C279M-ND	Low Power EIA-RS-485 Transceiver with Sleep Mode	8-SOIC	2.58	1.96	1.50
DS36C280M-ND	Slew Rate Controlled CMOS EIA-RS-485 Transceiver	8-SOIC	2.58	1.96	1.50
DS36F95J-ND	High Speed Multipoint RS485/422 Transceiver	8-Dip	13.74	11.78	10.45
DS36F95M-ND	High Speed Multipoint RS485/422 Transceiver	8-SOIC	3.58	2.72	2.08
DS89C21TM-ND	Differential CMOS Line Driver/Receiver Pair	8-SOIC	2.90	2.21	1.69
DS89C386TMEA-ND	12 Channel CMOS Differential Line Receiver	48-SSOP	8.48	6.71	5.38
DS89C387TMEA-ND	12 Channel CMOS Differential Line Driver	48-SSOP	8.48	6.71	5.38
DS90C031BTM-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	5.03	3.82	2.92
DS90C031TM-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	5.03	3.82	2.92
DS90C031TMXTR-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	6281.25/2,500		
DS90C032BTM-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	5.03	3.82	2.92
DS90C032TM-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	5.03	3.82	2.92
DS90C032TMXTR-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	6281.25/2,500		
DS90C363AMTD-ND	LVDS 3.3V, FPD (Flat Panel Display) Link-65MHz 18-Bit, Program Transmitter	48-TSSOP	6.99	5.53	4.43
DS90C363MTD-ND	LVDS 3.3V, FPD Link 18-Bit, Transmitter, 65MHz	48-TSSOP	6.99	5.53	4.43
DS90C365MTD-ND	LVDS 3.3V, FPD Link-85MHz 18-Bit, Program Xmitter	48-TSSOP	6.99	5.53	4.43
DS90C383AMTD-ND	LVDS 3.3V, FPD Link-65MHz 24-Bit, Program Xmitter	56-TSSOP	6.99	5.53	4.43
DS90C383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Transmitter	56-TSSOP	6.99	5.53	4.43
DS90C385MTD-ND	LVDS 3.3V, FPD Link-85MHz 24-Bit, Program Xmitter	56-TSSOP	6.99	5.53	4.43
DS90C387VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA-OXGA	100-TQFP	9.15	7.85	6.96
DS90C401M-ND	LVDS Dual Low Volt Differential Signaling Driver	8-SOIC	2.85	2.17	1.66
DS90C402M-ND	LVDS Dual Low Volt Differential Signaling Receiver	8-SOIC	2.85	2.17	1.66
DS90CF363AMTD-ND	LVDS 3.3V, FPD Link-65MHz 18-Bit, Program Xmitter	48-TSSOP	6.99	5.53	4.43
DS90CF363MTD-ND	LVDS 3.3V, FPD Link 18-Bit, Transmitter	48-TSSOP	6.99	5.53	4.43
DS90CF364MTD-ND	LVDS 3.3V, FPD Link 18-Bit, Receiver	48-TSSOP	6.99	5.53	4.43
DS90CF364AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 18-Bit, Receiver	48-TSSOP	6.99	5.53	4.43
DS90CF366MTD-ND	LVDS 3.3V, FPD Link-85MHz, 18-Bit, Receiver	48-TSSOP	6.99	5.53	4.43
DS90CF383AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver	56-TSSOP	6.99	5.53	4.43
DS90CF384AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver	56-TSSOP	6.99	5.53	4.43
DS90CF384ASLC-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver	64-FBGA	7.98	6.31	5.06
DS90CF383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver	56-TSSOP	6.99	5.53	4.43
DS90CF384MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver	56-TSSOP	6.99	5.53	4.43
DS90CF384SLC-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver	64-FBGA	7.98	6.31	5.06
DS90CF386MTD-ND	LVDS 3.3V, FPD Link-85MHz, 24-Bit, Receiver	56-TSSOP	6.99	5.53	4.43
DS90CF388VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA/QXGA	100-TQFP	9.15	7.85	6.96
DS90CF561MTD-ND	LVDS 18-Bit, Color, FPD Link	48-TSSOP	7.98	6.31	5.06
DS90CF562MTD-ND	LVDS 18-Bit, Color, FPD Link	48-TSSOP	7.98	6.31	5.06
DS90CF563MTD-ND	LVDS 5V, FPD Link 18-Bit, Transmitter	48-TSSOP	7.98	6.31	5.06
DS90CF564MTD-ND	LVDS 5V, FPD Link 18-Bit, Receiver	48-TSSOP	7.98	6.31	5.06
DS90CF583MTD-ND	LVDS 5V, FPD Link 24-Bit, Transmitter	56-TSSOP	7.98	6.31	5.06
DS90CF584MTD-ND	LVDS 5V, FPD Link 24-Bit, Receiver	56-TSSOP	7.98	6.31	5.06
DS90CP22M-8-ND	2x2 800 MBPS LVDS CrossSwitch	16-SOIC	6.97	5.52	4.42
DS90CR211MTD-ND	21-Bit, Channel Link, Transmitter, 40MHz	48-TSSOP	10.27	8.12	6.51
DS90CR212MTD-ND	21-Bit, Channel Link, Receiver, 40MHz	48-TSSOP	10.27	8.12	6.51
DS90CR213MTD-ND	21-Bit, Channel Link-66MHz, Transmitter	48-TSSOP	10.06	8.63	7.65
DS90CR214MTD-ND	21-Bit, Channel Link-66MHz, Receiver	48-TSSOP	10.06	8.63	7.65
DS90CR215MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Transmitter	48-TSSOP	7.39	5.85	4.69
DS90CR216AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Receiver	48-TSSOP	7.39	5.85	4.69
DS90CR216MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz	48-TSSOP	7.39	5.85	4.69
DS90CR217MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz	48-TSSOP	10.06	8.63	7.65
DS90CR218AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz	48-TSSOP	10.06	8.63	7.65
DS90CR218MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-75MHz	48-TSSOP	10.06	8.63	7.65
DS90CR281MTD-ND	28-Bit, Channel Link, Transmitter	56-TSSOP	9.63	8.25	7.32
DS90CR282MTD-ND	28-Bit, Channel Link, Receiver	56-TSSOP	9.63	8.25	7.32
DS90CR283MTD-ND	28-Bit, Channel Link-66MHz, Transmitter	56-TSSOP	11.11	9.53	8.45
DS90CR284MTD-ND	28-Bit, Channel Link-66MHz, Receiver	56-TSSOP	11.11	9.53	8.45
DS90CR285MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit, Channel Link-66MHz, Transmitter	56-TSSOP	7.39	5.85	4.69
DS90CR286AMTD-ND	3.3V, Data Strobe LVDS Receiver 28-Bit Channel Link-66MHz	56-TSSOP	7.39	5.85	4.69
DS90CR286ASLC-ND	LVDS 3.3V, Data Strobe Receiver 28-Bit Channel Link-66MHz	64-FBGA	7.39	5.85	4.69
DS90CR286MTD-ND	LVDS 3.3V, Data Strobe 28-Bit, Channel Link-66MHz	56-TSSOP	7.39	5.85	4.69
DS90CR287MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz	56-TSSOP	11.81	10.13	8.98
DS90CR287SLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz	64-FBGA	11.81	10.13	8.98
DS90CR288AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-85MHz	56-TSSOP	11.81	10.13	8.98
DS90CR288ASLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-85MHz	64-FBGA	11.81	10.13	8.98
DS90CR288MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel-75MHz	56-TSSOP	11.90	10.20	9.05
DS90CR562MTD-ND	LVDS 18-Bit, FPD Link	48-TSSOP	9.89	8.48	7.52
DS90CR581MTD-ND	LVDS Transmitter 24-Bit, FPD Link	56-TSSOP	9.09	7.19	5.76
DS90LV017ATM-ND	LVDS Single High Speed Differential Driver	8-SOIC	2.29	1.71	1.26
DS90LV017M-ND	LVDS Single High Speed Differential Driver	8-SOIC	2.29	1.71	1.26
DS90LV018ATM-ND	LVDS 3V, Single CMOS Differential Line Receiver	8-SOIC	2.29	1.71	1.26
DS90LV019TM-ND	LVDS 3.3V, or 5V, Driver/Receiver	14-SOIC	4.15	3.16	2.41
DS90LV027ATM-ND	LVDS Dual High Speed Differential Driver	8-SOIC	3.20	2.44	1.86
DS90LV027M-ND	LVDS Dual High Speed Differential Driver	8-SOIC	3.28	2.49	1.90
DS90LV028ATM-ND	LVDS 3V, Dual CMOS Differential Line Receiver	8-SOIC	2.90	2.21	1.69
DS90LV031ATM-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-SOIC	4.73	3.60	2.75
DS90LV031ATMTC-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-TSSOP	4.73	3.60	2.75
DS90LV031ATMXTR-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-SOIC	5906.25/2,500		
DS90LV031BTM-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-SOIC	4.10	3.12	2.38
DS90LV032ATM-ND	LVDS 3V, Quad CMOS Differential Line Receiver	16-SOIC	4.73	3.60	2.75
DS90LV032ATMTC-ND	LVDS 3V, Quad CMOS Differential Line Receiver	16-TSSOP	4.73	3.60	2.75
DS90LV047ATM-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-SOIC	4.73	3.60	2.75
DS90LV047ATMTC-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-TSSOP	4.73	3.60	2.75
DS90LV048ATM-ND	LVDS 3V, Quad CMOS Differential Line Receiver	16-SOIC	4.73	3.60	2.75

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National Semiconductor™ INTERFACE CHIPS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS90LV048ATMTC-ND	LVDS 3V, Quad CMOS Differential Line Receiver	16-TSSOP	4.73	3.60	2.75
DS92CK16TMTC-ND	BLVDS 3V, 1 to 6 Clock Buffer/Bus Transceiver	24-TSSOP	5.96	4.72	3.78
DS92LV010ATM-ND	Bus LVDS 3.3/5.0V, Single Transceiver	8-SOIC	3.58	2.72	2.08
DS92LV090ATVEH-ND	LVDS 9 Channel Transceiver	64-LQFP	9.14	7.83	6.95
DS92LV1021TMSA-ND	16MHz-40MHz 10-Bit, Serializer	28-SSOP	12.22	10.47	9.29
DS92LV1023TMSA-ND	40MHz-66MHz 10-Bit, Serializer	28-SSOP	10.37	8.21	6.58
DS92LV1210TMSA-ND	16MHz-40MHz 10-Bit, Deserializer	28-SSOP	10.85	9.30	8.25
DS92LV1212AMSA-ND	Bus LVDS 16MHz-40MHz 10-Bit, Random Lock Deserializer with Embedded Clock Recovery	28-SSOP	9.98	7.89	6.32
BLVDS04-ND	Evaluation Board for DS92LV1023/1224	EVAL BOARD	222.00	207.20	192.40
PC87200VUL-ND	PCI to ISA Bridge	160-PQFP	10.85	9.30	8.25
DS92LV1224TMSA-ND	40MHz-66MHz, 10-Bit, Deserializer	28-SSOP	10.37	8.21	6.58
DS92LV222ATM-ND	Bus LVDS Two Channel Multiplexer Repeater	16-SOIC	6.78	5.37	4.30
DS96F174CJ-ND	RS485/422 Quad Driver	16-CDip	5.40	4.27	3.42
DS96F175CJ-ND	RS422/485 Quad Line Driver	16-CDip	5.40	4.27	3.42
DS485M-ND	Low Power Multipoint RS485/RS442 Transceiver	8-SOIC	1.67	1.25	.92
DS485N-ND	Low Power Multipoint RS485/RS422 Transceiver	8-Dip	1.67	1.25	.92
DS485TM-ND	Low Power Multipoint RS485/RS442 Transceiver	8-SOIC	1.74	1.29	.96
DS485TN-ND	Low Power Multipoint RS485/RS442 Transceiver	8-Dip	1.74	1.29	.96
DS1487N-ND	Low Power Multipoint RS485 1/4 Unit Load Transceiver	8-Dip	2.26	1.68	1.25
DS1488M-ND	Quad Line Driver	14-SOIC	.58	.42	.31
DS1488MXTR-ND	Quad Line Driver	14-SOIC	367.50/2,500		
DS1488N-ND	Quad Line Driver	14-Dip	.58	.42	.31
DS1489AM-ND	Quad Line Receiver	14-SOIC	.58	.42	.31
DS1489AMXTR-ND	Quad Line Receiver	14-SOIC	367.50/2,500		
DS1489AN-ND	Quad Line Receiver	14-Dip	.58	.42	.31
DS1489M-ND	Quad Line Receiver	14-SOIC	.58	.42	.31
DS1489N-ND	Quad Line Receiver	14-Dip	.58	.42	.31
DS2003CM-ND	High Current/High Voltage Darlington Driver with Internal Resistor	16-SOIC	.95	.69	.50
DS2003CMXTR-ND	High Current/High Voltage Darlington Driver with Internal Resistor	16-SOIC	798.00/2,500		
DS2003CN-ND	High Current/High Voltage Darlington Driver with Internal Resistor	16-Dip	.94	.69	.50
DS3486M-ND	RS422/423 Quad Line Receiver	16-SOIC	.98	.72	.52
DS3486N-ND	RS422/423 Quad Line Receiver	16-Dip	.98	.72	.52
DS3487M-ND	Quad Differential Line Driver	16-SOIC	.98	.72	.52
DS3487N-ND	Quad Differential Line Driver	16-Dip	.98	.72	.52
DS3658N-ND	Quad High Low Current Peripheral Driver	16-Dip	3.73	2.84	—
DS3668N-ND	Quad Fault Protect Peripheral Driver	16-Dip	4.03	3.06	—
DS3691M-ND	RS422/423 Line Driver	16-SOIC	2.39	1.78	1.31
DS3691N-ND	RS422/423 Line Driver	16-Dip	2.39	1.78	1.31
DS3695AM-ND	Multipoint RS485/RS422 Transceiver/Repeater	8-SOIC	1.98	1.48	1.09
DS3695AMXTR-ND	Multipoint RS485/RS422 Transceiver/Repeater	8-SOIC	2000.00/2,500		
DS3695ATM-ND	Multipoint RS485/422 Transceiver/Repeater	8-SOIC	2.70	2.01	1.48
DS3695N-ND	Multipoint RS485/422 Transceiver/Repeater	8-Dip	1.92	1.43	1.06
DS3695TN-ND	Multipoint RS485/422 Transceiver/Repeater	8-Dip	1.92	1.43	1.06
DS3696N-ND	Multipoint RS485/422 Transceiver/Repeater	8-Dip	2.58	1.96	1.50
DS36950V-ND	RS485 Quad Differential Receiver	20-PLCC	9.03	7.74	—
DS36954V-ND	Quad Differential Bus Transceiver	20-PLCC	9.08	7.79	6.91
DS3896M-ND	BTL Trapezoidal Transceiver	20-SOIC	8.40	6.64	5.32
DS3897M-ND	BTL Trapezoidal Transceiver	20-SOIC	7.88	6.23	4.99
DS8921AM-ND	Differential Line Driver/Receiver Pair	8-SOIC	1.77	1.32	.97
DS8921AN-ND	Differential Line Driver/Receiver Pair	8-Dip	1.77	1.32	.97
DS8921ATM-ND	Differential Line Driver/Receiver Pair	8-SOIC	1.92	1.43	1.06
DS8921M-ND	Differential Line Driver/Receiver Pair	8-SOIC	1.61	1.20	.89
DS8921N-ND	Differential Line Driver/Receiver Pair	8-Dip	1.61	1.20	.89
DS8922AM-ND	RS422 Dual Driver/Receiver Pair	16-SOIC	1.92	1.43	1.06
DS8922AN-ND	RS422 Dual Driver/Receiver Pair	16-Dip	1.92	1.43	1.06
DS8922M-ND	RS422 Dual Driver/Receiver Pair	16-SOIC	1.61	1.20	.89
DS8922N-ND	RS422 Dual Driver/Receiver Pair	16-Dip	1.61	1.20	.89
DS8923AM-ND	RS422 Dual Differential Line Driver/Receiver	16-SOIC	1.80	1.34	.99
DS8923AMXTR-ND	RS422 Dual Differential Line Driver/Receiver	16-SOIC	1812.50/2,500		
DS8923AN-ND	RS422 Dual Differential Line Driver/Receiver	16-Dip	1.83	1.36	1.01
DS9637ACM-ND	RS423 Dual Receiver	8-SOIC	1.69	1.24	.90
DS9637ACN-ND	RS423 Dual Receiver	8-Dip	1.69	1.24	.90
DS9638CM-ND	RS-422 Dual High Speed Differential Line Driver	8-SOIC	1.69	1.24	.90
DS9638CN-ND	RS-422 Dual High Speed Differential Driver	8-Dip	1.69	1.24	.90
DS14185WM-ND	EIA/TIA-232 3 Driver x 5 Receiver	20-SOIC	1.13	.83	.60
DS14196WM-ND	EIA/TIA-232 5 Driver x 3 Receiver	20-SOIC	1.28	.94	.68
DS36276M-ND	Failsafe Multipoint Transceiver	8-SOIC	2.78	2.11	1.61
DS36277TM-ND	Dominant Mode Multipoint Transceiver	8-SOIC	3.07	2.28	1.69
DS36277TMXTR-ND	Dominant Mode Multipoint Transceiver	8-SOIC	3093.75/2,500		
DS36277TN-ND	Dominant Mode Multipoint Transceiver	8-Dip	3.07	2.28	1.69
DS36954M-ND	Quad Differential Bus Transceiver	20-SOIC	9.40	8.06	7.15
DS75107BN-ND	Dual Line Receiver	14-Dip	1.04	.75	.55
DS75176BM-ND	Multipoint RS485/422 Transceiver	8-SOIC	1.06	.77	.56
DS75176BMXTR-ND	Multipoint RS485/422 Transceiver	8-SOIC	781.38/2,500		
DS75176BN-ND	Multipoint RS485/422 Transceiver	8-Dip	1.06	.77	.56
DS75176BTM-ND	Multipoint RS485 Transceiver	8-SOIC	1.09	.80	.58
DS75176BTN-ND	Multipoint RS485 Transceiver	8-Dip	1.13	.83	.60
DS75451M-ND	Dual Peripheral Driver	8-SOIC	.95	.69	.50
DS75451N-ND	Dual Peripheral Driver	8-Dip	.95	.69	.50
DS75452M-ND	Dual Peripheral Driver	8-SOIC	.95	.69	.50
DS75452N-ND	Dual Peripheral Driver	8-Dip	.95	.69	.50
DS75453M-ND	Dual Peripheral Driver	8-SOIC	.95	.69	.50
DS75453N-ND	Dual Peripheral Driver	8-Dip	.95	.69	.50
DS96173CN-ND	EIA422/485 Quad Receiver	16-Dip	2.90	2.21	1.69
DS96174CN-ND	RS485/422 Quad Differential Driver	16-Dip	2.68	2.04	1.56
DS96175CN-ND	RS485/422 Quad Differential Receiver	16-Dip	2.68	2.04	1.56
DS96176CN-ND	RS485 Transceiver	8-Dip	2.68	2.04	1.56
DSV14196TWM-ND	3-3V, Supply EIA/TIA-232 5 Driver x3 Receiver	20-SOIC	2.42	1.80	1.33
DSV14196WM-ND	3-3V, Supply EIA/TIA-232 5 Driver x3 Receiver	20-SOIC	1.86	1.38	1.02

International IOR Rectifier CONTROL / POWER INTEGRATED CIRCUITS

Driver ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IP1001-ND	20A, Full Function Sync. Buck Power Block *NEW!*	14x14mm BGA	26.68	22.02	18.68
IP1001TR-ND	20A, Full Function Sync. Buck Power Block *NEW!*	14x14mm BGA	12806.25/750		
IP2001-ND	20A, Sync. Buck Multiphase Optimized BGA Power Block	144-BGA	15.88	12.54	11.29
IPS031S-ND	Low Side Driver	D2-PAK	3.60	2.88	2.07
IPS512G-ND	High Side Driver	16-SOIC	4.55	3.64	2.62
IPS5451S-ND	High Side Driver	D2-PAK	5.20	4.16	2.99
IPS5551T-ND	High Side Driver	TO-220	9.00	7.20	5.18
IR51H224-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.38	3.50	2.70
IR51HD224-ND	Self-Oscillating Half-Bridge Driver	9-Sip	3.46	2.77	2.14
IR51H310-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.13	3.30	2.54
IR51H420-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.88	3.90	3.00
IR51HD420-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.13	3.30	2.54
IR53HD420-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.98	3.98	3.06
IR1176-ND	5V, 4A, Synchronous Rectifier Driver	20-PDip	7.63	5.24	4.58
IR1176S-ND	5V, 4A, Synchronous Rectifier Driver	20-SSOP	7.75	5.32	4.65
IR2101-ND	High and Low Side Driver	8-Dip	2.27	1.65	1.57
IR2101S-ND	High and Low Side Driver	8-SOIC	2.40	1.92	1.48
IR2102-ND	High and Low MOS Driver	8-Dip	3.00	2.40	1.85
IR2102S-ND	High and Low MOS Driver	8-SOIC	3.33	2.66	2.05
IR2103-ND	High and Low Side Driver	8-Dip	3.00	2.40	1.85
IR2103S-ND	High and Low MOS Driver	8-SOIC	2.40	1.92	1.48
IR2104-ND	High and Low Side Driver	8-Dip	3.11	1.93	1.70
IR2104S-ND	High and Low Side Driver	8-SOIC	1.61	1.29	1.00
IR2104STR-ND	High and Low Side Driver	8-SOIC	2170.00/2,500		
IR2105-ND	Half-Bridge Driver	8-Dip	2.70	2.16	1.67
IR2106-ND	High and Low Side Driver	8-Dip	2.95	2.14	2.03
IR2106S-ND	High and Low Side Driver	8-SOIC	3.38	2.70	2.08
IR2107-ND	High and Low Side Driver	8-Dip	2.97	2.38	1.79
IR2107S-ND	High and Low Side Driver	8-SOIC	3.38	2.70	2.08
IR2108-ND	High and Low Side Driver	8-Dip	2.95	2.14	2.03
IR2108S-ND	High and Low Side Driver	8-SOIC	3.38	2.70	2.08
IR2109-ND	Half-Bridge Driver	8-Dip	3.30	2.64	2.03
IR2109S-ND	Half-Bridge Driver	8-SOIC	3.38	2.70	2.08
IR2109STR-ND	Half-Bridge Driver	8-SOIC	2127.50/2,500		
IR2110-ND	High and Low Side Driver	14-Dip	3.95	2.56	2.29
IR2110-1-ND	High and Low Side Driver	14-Dip	4.67	3.74	2.88
IR2110-2-ND	High and Low Side Driver	16-Dip	5.49	4.40	3.30
IR2110S-ND	High and Low Side Driver	16-SOIC	4.00	3.20	2.47
IR2110STR-ND	High and Low Side Driver	16-SOIC	2090.00/1,000		
IR2111-ND	Half-Bridge Driver	8-Dip	2.58	1.61	1.42
IR2111S-ND	Half-Bridge Driver	8-SOIC	1.88	1.50	1.16
IR2111STR-ND	Half-Bridge Driver	8-SOIC	2532.50/2,500		
IR2112-ND	High and Low Side Driver	14-Dip	2.46	1.78	1.70
IR2112-1-ND	High and Low Side Driver	14-Dip	3.40	2.72	2.04
IR2112-2-ND	High and Low Side Driver	16-Dip	3.78	3.03	2.27
IR2112S-ND	High and Low Side Driver	16-SOIC	3.00	2.40	1.85
IR2112STR-ND	High and Low Side Driver	16-SOIC	1594.00/1,000		
IR2113-ND	High and Low Side Driver	14-Dip	5.61	3.68	3.29
IR2113-1-ND	High and Low Side Driver	14-Dip	5.38	4.31	3.23
IR2113-2-ND	High and Low Side Driver	16-Dip	5.49	4.40	3.30
IR2113S-ND	High and Low Side Driver	16-SOIC	4.38	3.50	2.69
IR2117-ND	Single-Channel Driver	8-Dip	1.88	1.37	1.30
IR2117S-ND	Single-Channel Driver	8-SOIC	2.34	1.88	1.44
IR2117STR-ND	Single-Channel Driver	8-SOIC	3162.50/2,500		
IR2118-ND	High Side Driver	8-Dip	2.40	1.92	1.48
IR2118S-ND	High Side Driver	8-SOIC	2.57	2.06	1.58
IR2121-ND	Current Limiting Low Side Driver	8-Dip	3.38	2.70	2.08
IR2122-ND	High Side Driver	8-Dip	4.75	3.80	2.93
IR2125-ND	Current Limiting Single-Channel Driver	8-Dip	3.24	2.35	2.24
IR2125S-ND	Current Limiting Single-Channel Driver	16-SOIC	6.00	4.80	3.70
IR2127-ND	Current Sensing Single-Channel Driver	8-Dip	3.80	2.74	2.62
IR2127S-ND	Current Sensing Single-Channel Driver	8-SOIC	2.38	1.90	1.47
IR2127STR-ND	Current Sensing Single-Channel Driver	8-SOIC	3207.50/2,500		
IR2128-ND	High Side Driver	8-Dip	4.25	3.40	2.62
IR2128S-ND	High Side Driver	8-SOIC	4.75	3.80	2.93
IR2130-ND	3-Phase Bridge Driver	28-Dip	9.94	7.17	6.85
IR2130J-ND	3-Phase Bridge Driver	44-PLCC	14.25	11.40	8.78
IR2130S-ND	3-Phase Bridge Driver	28-SOIC	10.83	8.67	6.68
IR2131-ND	Triple High and Low Side Driver	28-Dip	13.35	10.68	8.22
IR2131J-ND	Triple High and Low Side Driver	44-PLCC	14.25	11.40	8.78
IR2131S-ND	Triple High and Low Side Driver	28-SOIC	14.25	11.40	8.78
IR2132-ND	3-Phase Bridge Driver	28-Dip	13.35	10.68	8.22
IR2132J-ND	3-Phase Bridge Driver	44-PLCC	14.25	11.40	8.78
IR2132S-ND	3-Phase Bridge Driver	28-SOIC	11.38	9.10	7.01
IR2133-ND	3-Phase Bridge Driver	28-Dip	14.25	11.40	8.78
IR2133J-ND	3-Phase Bridge Driver	44-PLCC	13.18	9.53	9.09
IR2133S-ND	3-Phase Bridge Driver	28-SOIC	14.25	11.40	8.78
IR2135-ND	3-Phase Bridge Driver	28-Dip	14.25	11.40	8.78
IR2135J-ND	3-Phase Bridge Driver	44-PLCC	14.75	11.80	9.09
IR2135S-ND	3-Phase Bridge Driver	28-SOIC	14.25	11.40	8.78
IR2136-ND	3-Phase Bridge Driver	28-Dip	7.60	5.49	5.24
IR2136J-ND	3-Phase Bridge Driver	44-PLCC	8.75	7.00	5.39
IR2136S-ND	3-Phase Bridge Driver	28-SOIC	8.50	6.80	5.24
IR2137Q-ND	3-Phase Bridge Driver	64-MQFP	17.33	13.86	10.68
IR2151-ND	Half-Bridge Driver	8-Dip	2.13	1.70	1.32
IR2151S-ND	Half-Bridge Driver	8-SOIC	3.33	2.66	2.05
IR2151STR-ND	Half-Bridge Driver	8-SOIC	3250.00/2,500		
IR2152-ND	Self-Oscillating Half-Bridge Driver	8-Dip	2.70	2.16	1.62
IR2152S-ND	Self-Oscillating Half-Bridge Driver	8-SOIC	2.99	2.40	1.80
IR2153-ND	Self-Oscillating Half-Bridge Driver	8-Dip	2.52	1.57	1.39
IR2153D-ND	Self-Oscillating Half-Bridge Driver	8-Dip	2.90	2.33	1.75
IR2153S-ND	Half-Bridge Driver	8-SOIC	1.68	1.34	1.04
IR2153STR-ND	Half-Bridge Driver	8-SOIC	2262.50/2,500		
IR2155-ND	Half-Bridge Driver	8-Dip	3.30	2.64	2.04
IR2159-ND	Half-Bridge Driver	16-Dip	8.75	7.00	5.40
IR2172-ND	Current Sensing Motor Drive	8-Dip	7.00	5.60	4.20
IR2172S-ND	Current Sensing Motor Drive	8-SOIC	7.13	5.70	4.28
IR2182-ND	High and Low Side Driver	8-Dip	3.38	2.70	2.03
IR2182S-ND	High and Low Side Driver	8-SOIC	3.49	2.79	2.10
IR2184-ND	High and Low Side Driver	8-Dip	3.38	2.70	2.03
IR2184S-ND	High and Low Side Driver	8-SOIC	3.49	2.79	2.10
IR2213-ND	High and Low Side Driver	14-Dip	8.75	7.00	5.39
IR2213S-ND	High and Low Side Driver	16-SOIC	9.00	7.20	5.54
IR2233-ND	3-Phase Bridge Driver	28-Dip	37.50	30.00	23.10
IR2233J-ND	3-Phase Bridge Driver	44-PLCC	26.81	19.39	18.48
IR2233S-ND	3-Phase Bridge Driver	28-SOIC	30.00	24.00	18.48
IR2235-ND	3-Phase Bridge Driver	28-Dip	37.50	30.00	23.10
IR2235J-ND	3-Phase Bridge Driver	44-PLCC	37.50	30.00	23.10

(Continued)

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CONTROL / POWER INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
IR2235S-ND	3-Phase Bridge Driver	28-SOIC	37.50	30.00	23.10
IR4426-ND	Low Side Driver	8-Dip	2.00	1.60	1.07
IR4426S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR4427-ND	Low Side Driver	8-Dip	1.80	1.44	1.08
IR4427S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR4428-ND	Low Side Driver	8-Dip	1.80	1.44	1.08
IR4428S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR6210-ND	High Side Driver	TO-220-5	4.38	3.50	2.70
IR6210S-ND	High Side Driver	TO-220-5	4.39	3.51	2.71
IR6216-ND	High Side Driver	TO-220-5	4.98	3.98	3.06
IR6220S-ND	High Side Driver	TO-220-5	3.50	2.80	2.16
IR6220STRL-ND	High Side Driver	TO-220-5	1512.00/800		
IR21064-ND	High and Low Side Driver	14-Dip	3.38	2.70	2.08
IR21064S-ND	High and Low Side Driver	14-SOIC	3.43	2.74	2.11
IR21074-ND	High and Low Side Driver	14-Dip	3.45	2.76	2.13
IR21084-ND	High and Low Side Driver	14-Dip	3.38	2.70	2.08
IR21084S-ND	High and Low Side Driver	14-SOIC	3.43	2.74	2.11
IR21094-ND	Half-Bridge Driver	14-Dip	3.45	2.76	2.13
IR21094S-ND	Half-Bridge Driver	14-SOIC	1.92	1.54	1.19
IR21271-ND	600V, 200/420mA Current Sensing Single Channel Driver	8-Dip	4.76	3.06	2.76
IR21271S-ND	600V, 200/420mA Current Sensing Single Channel Driver	8-SOIC	5.23	3.42	3.04
IR21362-ND	3-Phase Bridge Driver	28-Dip	8.50	6.80	5.24
IR21362J-ND	3-Phase Bridge Driver	44-PLCC	8.75	7.00	5.39
IR21362S-ND	3-Phase Bridge Driver	28-SOIC	8.50	6.80	5.24
IR21531-ND	Half-Bridge Driver	8-Dip	3.13	2.50	1.93
IR21531D-ND	Self-Oscillating Half-Bridge Driver	8-Dip	2.90	2.33	1.75
IR21531S-ND	Half-Bridge Driver	8-SOIC	3.18	2.54	1.96
IR21571-ND	Ballast Control	16-Dip	4.50	3.60	2.77
IR21571S-ND	Ballast Control	16-SOIC	4.63	3.70	2.86
IR21824-ND	High and Low Side Driver	14-Dip	3.49	2.79	2.10
IR21824S-ND	High and Low Side Driver	14-SOIC	3.60	2.88	2.16
IR21844-ND	High and Low Side Driver	14-Dip	3.49	2.79	2.10
IR21844S-ND	High and Low Side Driver	14-SOIC	3.60	2.88	2.16
IRSF3011-ND	Low Side Driver	TO-220AB	3.63	2.90	2.24
IRSF3011L-ND	Low Side Driver	SOT-223	3.00	2.40	1.86
IRSF3021-ND	Low Side Driver	TO-220AB	4.13	3.30	2.54
IRSF3031-ND	Low Side Driver	TO-220AB	4.13	3.30	2.54
PIIPM25P12B008X-ND	25A, 1200V, Programmable Isolated IPM	Module	588.00 each		
PIIPM50P12B004X-ND	50A, 1200V, Programmable Isolated IPM	Module	588.00 each		

Switching ICs

Digi-Key Part No.	Description	Pkg.	1	25	100
IPS021-ND	Fully Protected Power MOSFET Switch	TO-220AB	2.00	1.60	1.16
IPS021L-ND	Fully Protected Power MOSFET Switch	SOT-223	1.43	1.20	.92
IPS021S-ND	Fully Protected Power MOSFET Switch	SMD-220	2.40	1.92	1.38
IPS022G-ND	Dual Fully Protected Power MOSFET Switch	8-SOIC	2.25	1.80	1.29
IPS022GTR-ND	Dual Fully Protected Power MOSFET Switch	8-SOIC	3030.00/2,500		
IPS024G-ND	Low Side Driver	16-SOIC	4.97	3.98	2.86
IPS031-ND	Fully Protected Power MOSFET Switch	TO-220	3.04	2.55	1.96
IPS031G-ND	Single/Dual Fully Protected Power MOSFET Switch	8-SOIC	2.52	2.02	1.52
IPS032G-ND	Single/Dual Fully Protected Power MOSFET Switch	16-SOIC	4.07	3.26	2.45
IPS041L-ND	Fully Protected Power MOSFET Switch	SOT-223	1.28	1.02	.74
IPS042G-ND	Dual Fully Protected Power MOSFET Switch	8-SOIC	2.55	2.04	1.47
IPS511-ND	Fully Protected High-Side Power MOSFET Switch	TO-220-5	3.00	2.40	1.73
IPS511G-ND	Fully Protected High-Side Power MOSFET Switch	8-SOIC	1.94	1.18	1.03
IPS511GTR-ND	Fully Protected High-Side Power MOSFET Switch	8-SOIC	2072.50/2,500		
IPS511S-ND	Fully Protected High-Side Power MOSFET Switch	SMD-220-5	3.20	2.56	1.84
IPS521-ND	Fully Protected High-Side Power MOSFET Switch	TO-220	3.75	3.15	2.42
IPS521F-ND	Fully Protected High Side Power MOSFET Switch	TO-220-5	4.14	3.32	2.49
IPS521G-ND	Fully Protected High Side Power MOSFET Switch	8-SOIC	3.24	2.60	1.95
IPS521S-ND	Fully Protected High Side Power MOSFET Switch	D2-PAK	4.82	3.35	2.72
IPS0151-ND	Fully Protected Power MOSFET Switch	TO-220AB	4.20	3.36	2.42
IPS0151S-ND	Fully Protected Power MOSFET Switch	D2-PAK	4.40	3.52	2.64
IPS0551T-ND	Fully Protected Power MOSFET Switch	TO-220	8.00	6.40	4.80
IPS5451-ND	Fully Protected High-Side Power MOSFET Switch	TO-220-5	5.00	4.00	2.88
IR2156-ND	600V, 0.5A Ballast Control IC	14-PDip	3.30	2.13	1.92
IR2156S-ND	600V, 0.5A Ballast Control IC	14-SOIC	4.48	2.88	2.60
IR2166-ND	600V, 500mA PFC and Ballast Control IC *NEW!*	16-Dip	3.63	2.90	2.32
IR2166S-ND	600V, 500mA PFC and Ballast Control IC *NEW!*	16-SOIC	3.68	2.94	2.36
IR2170-ND	600V, 1mA Over Current Sensing IC	8-PDip	5.63	3.86	3.38
IR2170S-ND	600V, 1mA Over Current Sensing IC	8-SOIC	5.75	3.95	3.45
IR2171-ND	600V, 1mA Linear Current Sensing IC	8-PDip	6.25	4.29	3.75
IR2171S-ND	600V, 1mA Linear Current Sensing IC	8-SOIC	6.38	4.38	3.83
IR2181-ND	600V, 1.7A High and Low Side Driver	8-PDip	4.20	2.70	2.43
IR21814-ND	600V, 1.7A High and Low Side Driver	14-PDip	4.34	2.79	2.52
IR21814S-ND	600V, 1.7A High and Low Side Driver	14-SOIC	4.48	2.88	2.60
IR2183-ND	600V, Half Bridge Driver	8-PDip	4.20	2.70	2.43
IR2183S-ND	600V, Half Bridge Driver	8-SOIC	4.34	2.79	2.52
IR6224-ND	Intelligent High Side MOSFET Power Switch	TO-220	5.06	4.05	3.04
IR6224S-ND	Intelligent High Side MOSFET Power Switch	D2-PAK	5.29	4.23	3.18
IR21834SCT-ND	600V, Half Bridge Driver	14-SOIC	4.62	2.97	2.68
IR21834STR-ND	600V, Half Bridge Driver	14-SOIC	5445.00/2,500		
IRDCIP1001-A-ND	Single Phase Synchronous Buck Converter, 3.3V to 4.5V	—	295.00	—	—
IRDCIP1001-B-ND	Single Phase Synchronous Buck Converter, 5V to 12V	—	295.00	—	—
IRIS4007-ND	Integrated Power Switch, 200V, 4A	TO-220-5	5.54	3.55	3.18
IRIS4007K-ND	Integrated Power Switch, 200V, 4A	TO-262-5	5.40	3.46	3.10
IRIS4011-ND	Integrated Power Switch, 650V, 2.7A	TO-220-5	5.54	3.55	3.18
IRIS4011K-ND	Integrated Power Switch, 650V, 2.7A	TO-262-5	5.40	3.46	3.10
IRIS4013-ND	Integrated Power Switch, 650V, 5.1A	TO-220-5	5.96	3.83	3.45
IRIS4013K-ND	Integrated Power Switch, 650V, 5.1A	TO-262-5	5.83	3.74	3.37
IRIS4015-ND	Integrated Power Switch, 650V, 8A	TO-220-5	6.44	4.29	3.88
IRIS4015K-ND	Integrated Power Switch, 650V, 8A	TO-262-5	6.31	4.20	3.80
IRPLLNR3-ND	Universal Input Linear Flourescent Ballast using the IR2167	—	250.00	—	—
IRPLLNR4-ND	Universal Input Linear Flourescent Ballast using the IR2166	—	350.00	—	—
IRSF3010S-ND	Fully Protected Power MOSFET Switch	D2-PAK	4.28	3.42	2.57
IRSF3012L-ND	Fully Protected Power MOSFET Switch	SOT-223	3.15	2.52	1.89
IRSF3012-ND	Fully Protected Power MOSFET Switch	TO-220	3.94	3.15	2.37
IRSF3021L-ND	Low Side Power MOSFET Switch	SOT-223	2.93	2.34	1.76
IRSF3031L-ND	Low Side Power MOSFET Switch	SOT-223	2.93	2.34	1.76

Reference Design Kits

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
IRADK10-ND	3-Phase, 115-230V, 0.5HP Motor Drive Reference Design Kit	—	349.00	—	—
IRDC3037-ND	Design Kit with IRU3037 Synch. PWM Controller, 200KHz	—	250.00	—	—
IRDC3037A-ND	Design Kit with IRU3037A Synch. PWM Controller, 400KHz	—	250.00	—	—
IRDC3038-ND	Design Kit with IRU3038 Synch. PWM Controller, DDR, 200KHz	—	250.00	—	—
IRDC3046-ND	Design Kit with IRU3046 Dual PWM LDO Controller, 200KHz	—	250.00	—	—
IRDC3048-ND	Design Kit with IRU3048 Dual PWM LDO Controller, 200KHz	—	250.00	—	—
IRDC3055-ND	Design Kit with IRU3055 5-Bit Programmable 3-Phase Synchronous Buck Controller	—	250.00	—	—
IRDCIP2001-A-ND	2-Phase, 40A, 5-12VIN, 1.1-1.85VOUT Multiphase Buck Converter Reference Design with IP2001	—	335.00	—	—
IRDCIP2001-B-ND	3-Phase, 60A, 5-12VIN, 1.1-1.85VOUT Multiphase Buck Converter Reference Design with IP2001	—	365.00	—	—
IRDCIP2001-C-ND	4-Phase, 80A, 5-12VIN, 1.1-1.85VOUT Multiphase Buck Converter Reference Design with IP2001	—	395.00	—	—
IRISMPS1-ND	48V, 30WReference Design Kit with IRIS4007, 48V, 30W	—	245.00	—	—
IRISMPS2-ND	1-12V, 30W Reference Design Kit with IRIS4011	—	275.00	—	—
IRISMPS3-ND	15V, 4A Reference Design Kit with IRIS4013	—	280.00	—	—
IRISMPS4-ND	12V Power Supply Reference Design Kit	—	245.00	—	—
IRPLCFL2-ND	42 Watt Compact Fluorescent Ballast Reference Design Kit	—	125.00	—	—
IRPLDIM1E-ND	Dimming Ballast Control IC Design Kit	—	250.00	—	—
IRPLDIM1U-ND	Dimming Ballast Control IC Design Kit	—	225.00	—	—
IRPLDIM2E-ND	Digitally Addressable DALI Dimming Ballast Reference Design Kit	—	250.00	—	—
IRPLDIM2U-ND	Digitally Addressable DALI Dimming Ballast Reference Design Kit	—	275.00	—	—
IRPLLNR2E-ND	Ballast Control IC Design Kit	—	250.00	—	—
IRPLLNR2U-ND	Ballast Control IC Design Kit	—	250.00	—	—

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LDO REGULATORS/ SWITCHING CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
IRU431ALCL3CT-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23	.77	.37	.31
IRU431LCL3CT-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23	.65	.33	.26
IRU431LCL3TR-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23	585.00/3,000		
IRU431LCL5CT-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23-5	.72	.35	.29
IRU431LCL5TR-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23-5	675.00/3,000		
IRU1010CD-ND	1.0 Amp, Adjustable LDO Regulator	D-PAK	.70	.63	.56
IRU1010CP-ND	1.0 Amp, Adjustable LDO Regulator	2-Pin Power Flex	1.03	.57	.47
IRU1010CS-ND	1.0 Amp, Adjustable LDO Regulator	8-SOIC	.86	.48	.39
IRU1010CY-ND	1.0 Amp, Adjustable LDO Regulator	SOT-223	.90	.50	.41
IRU1010-18CD-ND	1.8 Volt, 1.0 Amp LDO Regulator	D-PAK	.70	.63	.54
IRU1010-18CP-ND	1.8 Volt, 1.0 Amp LDO Regulator	2-Pin Power Flex	1.03	.57	.47
IRU1010-18CS-ND	1.8 Volt, 1.0 Amp LDO Regulator	8-SOIC	.86	.48	.39
IRU1010-18CY-ND	1.8 Volt, 1.0 Amp LDO Regulator	SOT-223	.90	.50	.41
IRU1010-25CD-ND	2.5 Volt, 1.0 Amp LDO Regulator	D-PAK	.70	.63	.54
IRU1010-25CP-ND	2.5 Volt, 1.0 Amp LDO Regulator	2-Pin Power Flex	1.03	.57	.47
IRU1010-25CS-ND	2.5 Volt, 1.0 Amp LDO Regulator	8-SOIC	.86	.48	.39
IRU1010-25CY-ND	2.5 Volt, 1.0 Amp LDO Regulator	SOT-223	.90	.50	.41
IRU1010-33CD-ND	3.3 Volt, 1.0 Amp LDO Regulator	D-PAK	.70	.63	.54
IRU1010-33CP-ND	3.3 Volt, 1.0 Amp LDO Regulator	2-Pin Power Flex	1.03	.57	.47
IRU1010-33CS-ND	3.3 Volt, 1.0 Amp LDO Regulator	8-SOIC	.86	.48	.39
IRU1010-33CY-ND	3.3 Volt, 1.0 Amp LDO Regulator	SOT-223	.90	.50	.41
IRU1010-33CYTR-ND	3.3 Volt, 1.0 Amp LDO Regulator	SOT-223	835.00/2,500		
IRU1015CD-ND	1.5 Amp, Adjustable LDO Regulator	D-PAK	.83	.74	.63
IRU1015CM-ND	1.5 Amp, Adjustable LDO Regulator	TO-263-3	.95	.85	.76
IRU1015CMCT-ND	1.5A LDO Positive Adjustable Regulator	TO-263-3	1.44	.78	.70
IRU1015CMTR-ND	1.5A LDO Positive Adjustable Regulator	TO-263-3	461.25/750		
IRU1015CT-ND	1.5 Amp, Adjustable LDO Regulator	TO-220	.88	.79	.67
IRU1015-33CD-ND	3.3 Volt, 1.5 Amp LDO Regulator	D-PAK	.83	.74	.63
IRU1015-33CM-ND	3.3 Volt, 1.5 Amp LDO Regulator	TO-263-3	.95	.85	.73
IRU1015-33CP-ND	3.3 Volt, 1.5 Amp LDO Regulator	Ultra Thin-PAK	.70	.63	.54
IRU1015-33CT-ND	3.3 Volt, 1.5 Amp LDO Regulator	TO-220	1.05	.94	.80
IRU1030CD-ND	3.0 Amp, Adjustable Regulator	D-PAK	.83	.74	.63
IRU1030CM-ND	3.0 Amp, Adjustable Regulator	TO-263-3	.95	.95	.77
IRU1030CT-ND	3.0 Amp, Adjustable Regulator	TO-220	1.06	1.05	.85
IRU1030-33CD-ND	3.3 Volt, 3.0 Amp LDO Regulator	D-PAK	.83	.74	.66
IRU1030-33CM-ND	3.3 Volt, 3.0 Amp LDO Regulator	TO-263-3	.95	.95	.77
IRU1030-33CP-ND	3.3 Volt, 3.0 Amp LDO Regulator	2-Pin Power Flex	.70	.63	.54
IRU1030-33CT-ND	3.3 Volt, 3.0 Amp LDO Regulator	TO-220	1.05	.94	.81
IRU1050CD-ND	5.0 Amp, Adjustable Regulator	D-PAK	.90	.81	.72
IRU1050CM-ND	5.0 Amp, Adjustable Regulator	TO-263-3	1.04	1.03	.83
IRU1050CP-ND	5.0 Amp, Adjustable Regulator	2-Pin Power Flex	.78	.69	.62
IRU1050CT-ND	5.0 Amp, Adjustable Regulator	TO-220	1.14	1.02	.91
IRU1050-33CD-ND	3.3 Volt, 5.0 Amp Low Dropout Regulator	D-PAK	.90	.81	.69
IRU1050-33CM-ND	3.3 Volt, 5.0 Amp Low Dropout Regulator	TO-263-3	1.03	.92	.78
IRU1050-33CP-ND	3.3 Volt, 5.0 Amp Low Dropout Regulator	2-Pin Power Flex	.78	.69	.59
IRU1050-33CT-ND	3.3 Volt, 5.0 Amp Low Dropout Regulator	TO-220	1.13	1.01	.86
IRU1075CM-ND	7.5 Amp, Adjustable LDO Regulator	TO-263-3	1.53	1.38	1.23
IRU1075CMTR-ND	7.5 Amp, Adjustable LDO Regulator	TO-263-3	672.00/750		
IRU1075CP-ND	7.5 Amp, Adjustable LDO Regulator	3-Pin Power Flex	1.55	1.40	1.25
IRU1075CT-ND	7.5 Amp, Adjustable LDO Regulator	TO-220	1.63	1.47	1.31
IRU1117CD-ND	800mA LDO Positive Adjustable Regulator	TO-252	1.12	.59	.52
IRU1117CY-ND	800mA LDO Positive Adjustable Regulator	SOT-223	.74	.40	.32
IRU1117-18CD-ND	800mA LDO Positive Fixed 1.8V Regulator	TO-252	1.12	.59	.52
IRU1117-18CP-ND	800mA LDO Positive Fixed 1.8V Regulator	Ultra Thin-Pak	.94	.51	.43
IRU1117-18CS-ND	800mA LDO Positive Fixed 1.8V Regulator	8-SOIC	.77	.42	.34
IRU1117-18CY-ND	800mA LDO Positive Fixed 1.8V Regulator	SOT-223	.74	.40	.32
IRU1117-25CD-ND	800mA LDO Positive Fixed 2.5V Regulator	TO-252	1.12	.59	.52
IRU1117-25CP-ND	800mA LDO Positive Fixed 2.5V Regulator	Ultra Thin-Pak	.94	.51	.43
IRU1117-25CS-ND	800mA LDO Positive Fixed 2.5V Regulator	8-SOIC	.77	.42	.34
IRU1117-33CD-ND	800mA LDO Positive Fixed 3.3V Regulator	TO-252	1.12	.59	.52
IRU1117-33CP-ND	800mA LDO Positive Fixed 3.3V Regulator	Ultra Thin-Pak	.94	.51	.43
IRU1117-33CS-ND	800mA LDO Positive Fixed 3.3V Regulator	8-SOIC	.77	.42	.34
IRU1117-33CY-ND	800mA LDO Positive Fixed 3.3V Regulator	SOT-223	.74	.40	.32
IRU1150CM-ND	4A, Adjustable Positive Voltage Regulator	TO-263-5	1.48	1.32	1.18
IRU1150CMCT-ND	4A, Adjustable Positive Voltage Regulator	TO-263-5	1.26	.95	.74
IRU1150CMTR-ND	4A, Adjustable Positive Voltage Regulator	TO-263-5	425.25/750		
IRU1150CPTR-ND	4.0 Amp, Adjustable Very LDO Regulator	5-Pin Power Flex	946.00/2,000		
IRU1150CSTR-ND	4.0 Amp, Adjustable Very Low Dropout Regulator	8-SOIC	877.50/2,500		
IRU1160CM-ND	6.0 Amp, Adjustable Regulator	TO-263-5	2.27	2.02	1.81
IRU1160CPTR-ND	6.0 Amp, Adjustable Regulator	5-Pin Power Flex	1810.00/2,000		
IRU1175CMCT-ND	7.5A, Adjustable Positive Voltage Regulator	TO-263-5	2.67	2.01	1.56
IRU1175CMTR-ND	7.5A, Adjustable Positive Voltage Regulator	TO-263-5	830.25/750		
IRU1176CM-ND	7.5 Amp, Adjustable Ultra Low Dropout Regulator	TO-263-7	3.12	2.78	2.49
IRU1176CPTR-ND	7.5 Amp, Adjustable Ultra LDO Regulator	5-Pin Power Flex	1944.00/2,000		
IRU1205CLTR-ND	0.3 Amp, Adjustable Very Low Dropout Regulator	SOT-23-5	891.00/3,000		
IRU1205-25CLTR-ND	2.5 Volt, 0.3 Amp Very Low Dropout Regulator	SOT-23-5	891.00/3,000		
IRU1205-28CLCT-ND	300mA Ultra LDO Positive Fixed 2.8V Regulator	SOT-23-5	.92	.50	.41
IRU1205-28CLTR-ND	300mA Ultra LDO Positive Fixed 2.8V Regulator	SOT-23-5	963.00/3,000		
IRU1205-30CLTR-ND	3.0 Volt, 0.3 Amp Very Low Dropout Regulator	SOT-23-5	891.00/3,000		
IRU1205-33CLTR-ND	3.3 Volt, 0.3 Amp Very Low Dropout Regulator	SOT-23-5	891.00/3,000		

(Continued)

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International IOR Rectifier — LDO REGULATORS / SWITCHING CONTROLLERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
IRU1205-36CLTR-ND	3.6 Volt, 0.3 Amp Very Low Dropout Regulator	SOT-23-5	891.00/3,000		
IRU1206-18CD-ND	1.8 Volt, 1.0 Amp Very Low Dropout Regulator	D-PAK	1.28	1.14	.94
IRU1206-18CY-ND	1.8 Volt, 1.0 Amp Very Low Dropout Regulator	SOT-223	1.00	.89	.74
IRU1206-25CD-ND	2.5 Volt, 1.0 Amp Very Low Dropout Regulator	D-PAK	1.28	1.14	.94
IRU1206-25CY-ND	2.5 Volt, 1.0 Amp Very Low Dropout Regulator	SOT-223	1.00	.89	.74
IRU1206-33CD-ND	3.3 Volt, 1.0 Amp Very Low Dropout Regulator	D-PAK	1.28	1.14	.94
IRU1206-33CY-ND	3.3 Volt, 1.0 Amp Very Low Dropout Regulator	SOT-223	1.00	.89	.74
IRU1207-18CS-ND	1.8 Volt, 1.0 Amp Very Low Dropout Regulator	8-SOIC	1.00	.89	.74
IRU1207-25CS-ND	2.5 Volt, 1.0 Amp Very Low Dropout Regulator	8-SOIC	1.00	.89	.74
IRU1207-33CS-ND	3.3 Volt, 1.0 Amp Very Low Dropout Regulator	8-SOIC	1.00	.89	.74
IRU1208CS-ND	1.0 Amp Adjustable Very Low Dropout Regulator	8-SOIC	1.00	.89	.74
IRU1209CS-ND	1.0 Amp Adjustable Very Low Dropout Regulator	8-SOIC	1.00	.89	.74
IRU1209CSTR-ND	1.0 Amp Adjustable Very Low Dropout Regulator	8-SOIC	1382.50/2,500		
IRU1260CMTR-ND	Dual Adjustable 6 Amp/1 Amp LDO Regulator	TO-263-7	1312.82/750		
IRU1260CPTR-ND	Dual Adjustable 6 Amp/1 Amp LDO Regulator	7-Pin Power Flex	2674.00/2,000		
IRU1261CMTR-ND	Dual LDO Reg. 1.5 V/6 Amp and 2.5 V/1 Amp	TO-263-5	1312.82/750		
IRU1261CPTR-ND	Dual LDO Reg. 1.5 V/6 Amp and 2.5 V/1 Amp	Ultra Thin-PAK-5	2674.00/2,000		
IRU3004CW-ND	5-Bit Prog. Synch. Buck Controller w/Dual LDO Controller	20-SOIC(W)	4.60	4.10	3.41
IRU3007CW-ND	5-Bit Prog. Synch. Buck Controller w/Dual LDO Controller	28-SOIC(W)	6.48	5.77	4.80
IRU3011CW-ND	5-Bit Prog. Synch. Buck Controller	20-SOIC(W)	4.60	4.10	3.41
IRU3018CW-ND	5-Bit Prog. Synch. Buck Controller w/Dual LDO Controller	24-SOIC(W)	6.08	5.41	4.50
IRU3021MCW-ND	5-Bit Prog. Synch. Buck Controller w/Triple LDO Cont.	28-SOIC(W)	4.33	3.85	3.21
IRU3021MCWTR-ND	5-Bit Prog. Synch. Buck Controller w/Triple LDO Cont.	28-SOIC(W)	2350.64/1,000		
IRU3027CW-ND	5-Bit Prog. Synch. Buck Controller w/Triple LDO Cont.	28-SOIC(W)	4.33	3.85	3.21
IRU3027CWTR-ND	5-Bit Prog. Synch. Buck Controller w/Triple LDO Cont.	28-SOIC(W)	2350.64/1,000		
IRU3033CS-ND	Pulse Width Modulation Switcher and Linear Controller	8-SOIC(N)	2.20	1.96	1.63
IRU3033CSTR-ND	Pulse Width Modulation Switcher and Linear Controller	8-SOIC(N)	3037.50/2,500		
IRU3034CS-ND	PWM Switcher/Controller with Short Circuit Protection	8-SOIC	2.20	1.96	1.63
IRU3037CS-ND	Synchronous PWM Controller	8-SOIC	2.30	1.56	1.22

TOSHIBA 4-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62064AF-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output	HSOP-16	1.40	1.12	.84
TD62064AP-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output	16-Dip	1.20	1.00	.80
TD62064BF-ND	TTL, 5V, CMOS Input - 1.5A @ 80V, Vce Output	HSOP-16	1.40	1.12	.84
TD62064BP-1-ND	TTL, 5V, CMOS Input - 1.5A @ 80V, Vce Output	16-Dip	1.20	1.00	.80

TOSHIBA 7-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62001AF-ND	General Purpose Input - 0.5A @ 50V, Vce Output	16-SOP	.72	.54	.41
TD62001AFELTR-ND	General Purpose Input - 0.5A @ 50V, Vce Output	16-SOP	1092.00/4,000		
TD62001AP-ND	General Purpose Input - 0.5A @ 50V, Vce Output	16-Dip	.64	.48	.36
TD62002AF-ND	14-25V, PMOS Input - 0.5A @ 50V, Vce Output	16-SOP	.72	.54	.41
TD62002AFELTR-ND	14-25V, PMOS Input - 0.5A @ 50V, Vce Output	16-SOP	546.00/2,000		
TD62002AP-ND	14-25V, PMOS Input - 0.5A @ 50V, Vce Output	16-Dip	.64	.48	.36
TD62003AF-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output	16-SOP	.64	.48	.36
TD62003AP-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output	16-Dip	.56	.42	.32
TD62004AF-ND	6-15V, PMOS Input - 0.5A @ 50V, Vce Output	16-SOP	.64	.48	.36
TD62004AP-ND	6-15V, PMOS Input - 0.5A @ 50V, Vce Output	16-Dip	.56	.42	.32
ULN2003AFW-ND	TTL, 5V CMOS 0.5A @ 50V, Vce Output	16-SOL	.56	.42	.32
ULN2003AP-ND	TTL, 5V CMOS 0.5A @ 50V, Vce Output	16-Dip	.48	.36	.27
ULN2004AFW-ND	6-15V PMOS, CMOS 0.5A @ 50V, Vce Output	16-SOL	.56	.42	.32
ULN2004AP-ND	6-15V PMOS, CMOS 0.5A @ 50V, Vce Output	16-Dip	.48	.36	.27

TOSHIBA 8-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62081AF-ND	General Purpose Input, 0.5A @ 50V, Vce Output	SOP-18	.88	.66	.50
TD62081AP-ND	General Purpose Input, 0.5A @ 50V, Vce Output	18-Dip	.76	.57	.43
TD62082AF-ND	14-25V, PMOS Input, 0.5A @ 50V, Vce Output	SOP-18	.88	.66	.50
TD62082AFTR-ND	14-25V, PMOS Input, 0.5A @ 50V, Vce Output	18-SOP	319.20/1,000		
TD62082AP-ND	14-25V, PMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.76	.57	.43
TD62083AF-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	SOP-18	.84	.63	.48
TD62083AFN-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	SSOP-18	.87	.73	.58
TD62083AP-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.72	.54	.41
TD62084AF-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	SOP-18	.84	.63	.48
TD62084AFTR-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	312.00/1,000		
TD62084AFNTR-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SSOP	832.00/2,000		
TD62084AP-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.76	.57	.43
ULN2803AFW-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output	18-SOL	.84	.63	.48
ULN2803AP-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.72	.54	.41
ULN2804AFW-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SOL	.84	.63	.48
ULN2804AP-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.76	.57	.43

TOSHIBA 8-CHANNEL DARLINGTON SOURCE DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62783AF-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	SOP-18	1.43	1.14	.86
TD62783AFN-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	SSOP-18	1.75	1.40	1.05
TD62783AP-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	1.23	.98	.74
TD62784AF-ND	6-15V, PMOS, CMOS Input, 0.5A @ 50V, Vce Output	SOP-18	1.43	1.14	.86
TD62784AFN-ND	6-15V, PMOS, CMOS Input, 0.5A @ 50V, Vce Output	SSOP-18	1.75	1.40	1.05
TD62784AP-ND	6-15V, PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	1.23	.98	.74

MAXIM SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DG201ACJ-ND	Quad SPST CMOS Normally Closed Analog Switch	16-Dip	4.85	3.66	2.62
DG211CJ-ND	Quad SPST CMOS Normally Closed Analog Switch	16-Dip	3.45	2.60	1.85
DG211CSE-ND	Quad SPST CMOS Normally Closed Analog Switch	16-SOIC	2.76	2.08	1.61
DG212CJ-ND	Quad SPST CMOS Normally Open Analog Switch	16-Dip	3.45	2.60	1.85
DG406DJ-ND	16-Channel CMOS Analog Multiplexer *NEW!*	28-Dip	12.35	9.32	6.66

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DG418DY-ND	Precision CMOS Analog Switch	8-SOIC	3.26	2.46	1.75
DG508ACJ-ND	Monolithic CMOS Analog 1-to-8 Multiplexer	16-Dip	5.70	4.30	3.06
DG509ACJ-ND	Monolithic CMOS Analog 2-to-8 Multiplexer	16-Dip	5.70	4.30	3.06
HI3-0201-5-ND	Quad SPST CMOS Analog Switch	16-Dip	5.64	4.26	2.84
HI3-0201HS-5-ND	High Speed Quad SPST CMOS Analog Switch	16-Dip	6.33	4.78	3.20
HI6-0201-5-ND	Quad SPST CMOS Analog Switch	16-SOIC	6.41	4.84	3.23
HI6-0201HS-5-ND	High Speed Quad SPST CMOS Analog Switch	16-SOIC	8.93	6.74	4.50
ICL7109CPL-ND	12-Bit ADC with Tri-State Binary Outputs	40-Dip	13.04	9.84	8.95
ICL7126CPL-ND	Low Power 3-1/2 Digit ADC with Direct Drive (LCD)	40-Dip	12.16	9.18	6.12
ICL7129ACPL-2-ND	4-1/2 Digit ADC Multiplexer Driver	40-Dip	15.53	11.72	7.81
ICL7660CSA-ND	CMOS Switch Capacitor Voltage Converter	8-SOIC	2.86	2.16	1.54
ICL7665ACPA-ND	Under/Over Volt Detector	8-Dip	4.93	3.72	2.66
ICL7665ACSA-ND	Under/Over Volt Detector	8-SOIC	5.43	4.10	2.93
ICM7218AIPI-ND	8-Digit Multiplexer LED Decoder/Driver	28-Dip	11.74	8.86	6.00
ICM7250IPE-ND	Programmable RC Timer	16-Dip	5.41	4.08	2.72
ICM7250IWE-ND	Programmable RC Timer	16-SOIC	5.94	4.48	2.99
ICMAX7555IPA-ND	CMOS General Purpose Timer	8-Dip	2.49	1.88	1.25
MAX038CPP-ND	IC 20MHz Function Generator	20-Dip	23.37	17.64	11.31
MAX038CWP-ND	IC 20MHz Function Generator *NEW!*	20-SOIC	23.37	17.64	10.37
MAX110ACPE-ND	2-Channel ±14-Bit Serial ADC	16-Dip	16.56	12.50	8.01
MAX110ACWE-ND	2-Channel ±14-Bit Serial ADC	16-SOIC	16.56	12.50	8.01
MAX110BCPE-ND	2-Channel ±14-Bit Serial ADC	16-Dip	12.72	9.60	6.17
MAX110BCWE-ND	2-Channel ±14-Bit Serial ADC	16-SOIC	12.72	9.60	6.17
MAX117CPI-ND	3V 8-Channel 8-Bit Parallel Output ADC	28-Dip	9.99	7.54	4.84
MAX118CPI-ND	5V 8-Channel 8-Bit Parallel Output ADC	28-Dip	9.59	7.24	4.64
MAX120CNG-ND	500 KSPS, 12-Bit ADC with Track/Hold and Ref.	24-Dip	40.07	30.24	19.39
MAX120CWG-ND	12-Bit ADC with Track/Hold and Reference	24-SOIC	40.07	30.24	19.39
MAX121CPE-ND	308 KSPS A/D Conv with DSP 78dB Interface and Serial A/D	16-Dip	31.80	24.00	15.39
MAX121CWE-ND	308 KSPS A/D Conv with DSP 78dB Interface and Serial A/D	16-SOIC	31.80	24.00	15.39
MAX132CNG-ND	ADC with Serial Interface	24-Dip	20.01	15.10	9.69
MAX132CWG-ND	ADC with Serial Interface	24-SOIC	20.01	15.10	9.69
MAX133CQH-ND	3-3/4 Digit DMM Circuit	44-PLCC	26.87	20.28	13.00
MAX135CPI-ND	15-Bit Low Power ADC with Parallel Interface	28-Dip	20.01	15.10	9.69
MAX135CWI-ND	15-Bit Low Power ADC with Parallel Interface	28-SOIC	20.01	15.10	9.69
MAX138CPL-ND	3-1/2 Digit ADC with Bandgap Ref. and Charge Pump Volt Converter and LCD Driver	40-Dip	19.37	14.62	9.37
MAX147BCAP-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC	20-SSOP	15.37	11.60	7.44
MAX147BCPP-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC	20-Dip	15.37	11.60	7.44
MAX148BCAP-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC	20-SSOP	8.03	6.06	3.88
MAX148BCPP-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC	20-Dip	8.75	6.60	4.23
MAX150BCPP-ND	CMOS 8-Bit ADC with VREF Track and Hold	20-Dip	22.42	16.92	10.85
MAX153CPP-ND	1MSPS, µP-Compatible, 8-Bit ADC with Power Down	20-Dip	16.62	12.54	8.04
MAX154ACNG-ND	4-Channel ADC with Track and Hold	24-Dip	32.54	24.56	15.75
MAX154ACWG-ND	4-Channel ADC with Track and Hold	24-SOIC	32.54	24.56	15.75
MAX154BCNG-ND	4-Channel ADC with Track and Hold	24-Dip	23.53	17.76	11.39
MAX154BCWG-ND	4-Channel ADC with Track and Hold	24-SOIC	23.53	17.76	11.39
MAX158ACPI-ND	8-Channel ADC with Track and Hold	28-Dip	33.68	25.42	16.30
MAX158ACWI-ND	8-Channel ADC with Track and Hold	28-SOIC	33.68	25.42	16.30
MAX158BCPI-ND	8-Channel ADC with Track and Hold	28-Dip	24.67	18.62	11.94
MAX158BCWI-ND	8-Channel ADC with Track and Hold	28-SOIC	24.67	18.62	11.94
MAX165ACPN-ND	CMOS µP Compatible 5µS 8-Bit ADC	18-Dip	13.28	10.02	6.43
MAX165BCPN-ND	CMOS µP Compatible 5µS 8-Bit ADC with T/H and Reference	18-Dip	10.23	7.72	4.96
MAX165BCWN-ND	CMOS µP Compatible 5µS 8-Bit ADC	18-SOIC	10.23	7.72	4.96
MAX166BCPP-ND	Differential Input, 5µS, 8-Bit ADC with T/H and Reference	20-Dip	10.89	8.22	5.27
MAX172BCNG-ND	Complete 10µS CMOS 12-Bit ADC	24-Dip	27.03	20.40	13.08
MAX174CCPI-ND	12-Bit ADC with Reference	28-Dip	79.21	59.78	42.71
MAX176BCPA-ND	Serial Output, 12-Bit 250 KSPS ADC	8-Dip	33.05	24.94	16.00
MAX178ACWG-ND	Calibrated 12-Bit A/D Converter with T/H and Reference	24-SOIC	44.94	33.92	22.64
MAX180ACQH-D-ND	8-Channel 12-Bit Data Acquisition System *NEW!*	44-PLCC	55.31	41.74	24.56
MAX180BCPL-ND	8-Channel 12-Bit Data Acquisition System	40-Dip	48.92	36.92	23.67
MAX181CCQH-D-ND	6-Channel 12-Bit Data Acquisition System	44-PLCC	42.56	32.12	20.60
MAX182BCPI-ND	4-Channel 12-Bit ADC with Track and Hold	28-Dip	46.53	35.12	23.44
MAX186BCPP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-Dip	32.54	24.56	15.75
MAX186BCWP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-SOIC	32.54	24.56	15.75
MAX186DCPP-ND	Low Power 8-Channel Serial 12-Bit ADC with V Reference	20-Dip	21.47	16.20	10.38
MAX186DCWP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-SOIC	21.47	16.20	10.38
MAX187BCPA-ND	Low Power 12-Bit Serial ADC with Track and Hold	8-Dip	19.80	14.94	9.58
MAX187BCWE-ND	Low Power 12-Bit Serial ADC with Track and Hold	16-SOIC	19.80	14.94	9.58
MAX188BCPP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-Dip	29.76	22.46	14.40
MAX188BCWP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-SOIC	29.76	22.46	14.40
MAX188DCPP-ND	Low Power 8-Ch. Serial 12-Bit ADC, External Ref. Required	20-Dip	20.25	15.28	9.80
MAX188DCWP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-SOIC	20.25	15.28	9.80
MAX189CCPA-ND	5V Low Power 12-Bit Serial A/D Converter	8-Dip	16.67	12.58	8.06
MAX191BCNG-ND	Low Power, Single-Supply 12-Bit ADC with Power Down and Serial/Parallel Outputs	24-Dip	24.04	18.14	11.64
MAX191BCWG-ND	Low Power, Single-Supply 12-Bit ADC with Power Down and Serial/Parallel Outputs	24-SOIC	24.04	18.14	11.64
MAX192BCAP-ND	Low Power 8-Channel 10-Bit ADC	20-SSOP	16.96	12.80	8.21
MAX192BCPP-ND	Low Power 8-Channel 10-Bit ADC	20-Dip	15.42	11.64	7.46
MAX192BCWP-ND	Low Power 8-Channel 10-Bit ADC	20-SOIC	15.42	11.64	7.46
MAX194BCPE-ND	14-Bit 85KSPS ADC with 10µA Shutdown	16-Dip	36.68	27.68	17.75
MAX194BCWE-ND	14-Bit 85KSPS ADC with 10µA Shutdown	16-SOIC	36.68	27.68	17.75
MAX195BCPE-ND	16-Bit 85KSPS ADC with 10µA Shutdown	16-Dip	67.60	51.02	32.71
MAX195BCWE-ND	16-Bit 85KSPS ADC with 10µA Shutdown	16-SOIC	67.60	51.02	32.71
MAX196BCAI-ND	6-Channel Multi Range 12-Bit ADC Parallel Interface	28-SSOP	28.28	21.34	13.69
MAX196BCNI-ND	6-Channel Multi Range 12-Bit ADC Parallel Interface	28-Dip	27.22	20.54	13.16
MAX197BCAI-ND	8-Channel Multi Range 12-Bit ADC Parallel Interface	28-SSOP	28.28	21.34	13.69
MAX197BCNI-ND	8-Channel Multi Range 12-Bit ADC Parallel Interface	28-Dip	27.22	20.54	13.16
MAX200CPP-ND	+5V Powered, Five RS232 Trans. with Power Shutdown and .1µF External Capacitors	20-Dip	8.24	6.22	3.99
MAX201CPD-ND	+5V/+9V to +13.2V, Dual RS232 Transceiver with .1µF External Capacitors	14-Dip	3.31	2.50	1.60
MAX201CWE-ND	+5V/+9V to +13.2V, Dual RS232 Transceiver with .1µF External Capacitors	16-SOIC	3.31	2.50	1.60
MAX202CPE-ND	+5V Dual RS232 Transceiver with .1µF External Caps	16-Dip	3.31	2.50	1.60
MAX202CSE-ND	+5V Dual RS232 Transceiver with .1µF External Caps	16-SOIC	3.31	2.50	1.60
MAX202ECWE-ND	+5V RS-232 Transceiver *NEW!*	16-SOIC	4.19	3.16	2.02
MAX203CPP-ND	Complete, +5V Powered, Dual RS232 Transceiver	20-Dip	7.45	5.62	3.60
MAX203CWP-ND	+5V Powered, Dual RS232 Transceiver	20-SOIC	7.45	5.62	3.60
MAX204CPE-ND	+5V Quad RS232 Transceiver with .1µF External Capacitors	16-Dip	5.88	4.44	2.85
MAX205CPG-ND	Complete, +5V Pwrd, 5-Channel RS232 Transceiver	24-Dip	16.38	12.36	7.92
MAX206CNG-ND	5V RS232 Transcvr w/ .1µF Ext Caps, 4 Drivers/3 Receivers	24-Dip	7.55	5.70	3.65
MAX206CWG-ND	5V RS232 Transcvr w/ .1µF Ext Caps, 4 Drivers/3 Receivers	24-SOIC	7.55	5.70	3.65
MAX207CNG-ND	5V RS232 Transcvr w/ .1µF Ext Caps, 5 Drivers/3 Receivers	24-Dip	7.55	5.70	3.65
MAX207CWG-ND	5V RS232 Transcvr w/ .1µF Ext Caps, 5 Drivers/3 Receivers	24-SOIC	7.55	5.70	3.65
MAX208CNG-ND	5V RS232 Transcvr w/ .1µF Ext Caps, 4 Drivers/4 Receivers	24-Dip	7.55	5.70	3.65
MAX208CWG-ND	5V RS232 Transcvr w/ .1µF Ext Caps, 4 Drivers/4 Receivers	24-SOIC	7.55	5.70	3.65

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX209CNG-ND	+5V and +12V Pwrd., 3 RS232 Transmitters and 5 RS232 Receivers with Receiver Enable and .1µF Ext. Caps.	24-Dip	7.55	5.70	3.65
MAX209CWG-ND	+5V and +12V Pwrd., 3 RS232 Transmitters and 5 RS232 Receivers with Receiver Enable and .1µF Ext. Caps.	24-SOIC	7.55	5.70	3.65
MAX211CAI-ND	+5V Powered, 4 RS232 Transmitters and 5 RS232 Receivers with .1µF Ext. Caps.	28-SSOP	7.95	6.00	3.85
MAX211CWI-ND	+5V Powered, 4 RS232 Transmitters and 5 RS232 Receivers with .1µF Ext. Caps.	28-SOIC	7.55	5.70	3.65
MAX211ECAI-ND	+5V Powered, 4 RS232 Transmitters and 5 RS232 Receivers with .1µF Ext. Caps., 15Kv ESD	28-SSOP	9.17	6.92	4.43
MAX213CWI-ND	+5V Powered, 4 RS232 Transmitters and 5 RS232 Receivers (2 active in shutdown) with 0.1µF Ext. Caps.	28-SOIC	7.55	5.70	3.65
MAX214CPI-ND	Programmable DTE/DCE, 5V RS232 Transceiver	28-Dip	9.88	7.46	4.79
MAX214CWI-ND	Programmable DTE/DCE, 5V RS232 Transceiver	28-SOIC	9.06	6.84	4.39
MAX218CPP-ND	1.8V - 4.25V Powered True RS232 Dual Transceiver	20-Dip	4.74	3.58	2.30
MAX218CWP-ND	1.8V - 4.25V Powered True RS232 Dual Transceiver	20-SOIC	4.74	3.58	2.30
MAX222CPN-ND	5V High Speed RS232 Driver Receiver with Shutdown	18-Dip	4.88	3.68	2.45
MAX222CWN-ND	5V High Speed RS232 Driver Receiver with Shutdown	18-SOIC	4.88	3.68	2.45
MAX222EWN-ND	5V High Speed RS232 Driver Receiver with Shutdown	18-SOIC	5.83	4.40	2.93
MAX223CWI-ND	+5V Powered, 4 RS232 Transmitters and 5 RS232 Receivers (2 Active in Shutdown)	28-SOIC	8.24	6.22	3.99
MAX230CPP-ND	+5V Powered, 5 RS232 Transmitters with Power Shutdown	20-Dip	8.24	6.22	3.99
MAX231CPD-ND	+5V and +12V Pwrd., Dual RS232 Transmitters and Receivers	14-Dip	3.31	2.50	1.60
MAX231EPD-ND	+5V and +12V Pwrd., Dual RS232 Transmitters and Receivers	14-Dip	3.98	3.00	1.92
MAX232ACPE-ND	+5V Powered, HS Dual RS232 Transmitters and Rec.	16-Dip	5.51	4.16	2.77
MAX232ACSE-ND	+5V Powered, HS Dual RS232 Transmitters and Rec.	16-SOIC	5.51	4.16	2.77
MAX232ACWE-ND	+5V Powered, HS Dual RS232 Transmitters and Rec.	16-SOIC	4.88	3.68	2.45
MAX232AESE-ND	+5V Powered, HS Dual RS232 Transmitters and Rec. *NEW!*	16-SOIC	6.60	4.98	2.93
MAX232AEWE-ND	+5V Powered, HS Dual RS232 Transmitters and Rec.	16-SOIC	5.83	4.40	2.93
MAX232CPE-ND	+5V Powered, Dual RS232 Transmitters and Receivers	16-Dip	3.31	2.50	1.60
MAX232CWE-ND	+5V Powered, Dual RS232 Transmitters and Receivers	16-SOIC	3.31	2.50	1.60
MAX232EPE-ND	+5V Pwrd., Dual RS232 Transmitters and Receivers	16-Dip	3.98	3.00	1.92
MAX232EWE-ND	+5V Pwrd., Dual RS232 Transmitters and Receivers	16-SOIC	3.98	3.00	1.92
MAX233ACPP-ND	+5V Pwrd., Dual RS232 No Ext Components Transmitters/Rec	20-Dip	10.76	8.12	5.20
MAX233ACWP-ND	+5V Pwrd., Dual RS232 No Ext Components Transmitters/Rec.	20-SOIC	10.76	8.12	5.20
MAX233AEWP-ND	+5V Pwrd., Dual RS232 No Ext Components Transmitters/Rec. *NEW!*	20-SOIC	14.63	11.04	7.08
MAX233CPP-ND	+5V Pwrd., Dual RS232 No Ext Components Transmitters/Rec	20-Dip	7.45	5.62	3.60
MAX233EPP-ND	+5V Pwrd., Dual RS232 No Ext Components Transmitters/Rec	20-Dip	8.93	6.74	4.32
MAX234CPE-ND	+5V Powered Quad RS232,Transmitters	16-Dip	5.88	4.44	2.85
MAX234CWE-ND	+5V Powered Quad RS232, Transmitters	16-SOIC	5.88	4.44	2.85
MAX235CPG-ND	+5V Powered, 5 RS232 No Ext. Comp. Transmitters and Receivers with Power Shutdown and Tri-State	24-Dip	16.38	12.36	7.92
MAX236CNG-ND	+5V Powered, 4 RS232 Transmitters and 3 RS232 Receivers with Power Shutdown and Tri-State	24-Dip	7.55	5.70	3.65
MAX236CWG-ND	+5V Powered, 4 RS232 Xmitters and 3 RS232 Receivers with Power Shutdown and Tri-State.	24-SOIC	7.55	5.70	3.65
MAX237CNG-ND	+5V Powered, 5 RS232 Transmitters, 3 RS232 Receivers	24-Dip	7.55	5.70	3.65
MAX237CWG-ND	5V Powered, 5 RS232 Transmitters, 3 RS232 Receivers	24-SOIC	7.55	5.70	3.65
MAX238CNG-ND	+5V Powered, Quad RS232 Transmitters and Receivers	24-Dip	7.55	5.70	3.65
MAX238CWG-ND	+5V Powered, Quad RS232 Transmitters and Receivers	24-SOIC	7.55	5.70	3.65
MAX239CNG-ND	+5V and +12V P Powered, 3 RS232 Transmitters and 5N RS232 Receivers w/Receiver Enable	24-Dip	7.55	5.70	3.65
MAX240CMH-ND	+5V P Powered, 5 RS232 Transmitters and Receivers with Power Shutdown and Tri-State	44-PQFP	12.40	9.36	6.00
MAX241CWI-ND	+5V P Powered, 4 RS232 Transmitters, 5 Receivers with Power Shutdown and Receiver 3-State Enable.	28-SOIC	12.40	9.36	6.00
MAX242CPN-ND	High Speed 5V Dual RS232 Driver/Receiver	18-Dip	4.88	3.68	2.45
MAX242CWN-ND	High Speed 5V Dual RS232 Driver/Receiver	18-SOIC	4.88	3.68	2.45
MAX243CPE-ND	5V Powered Dual RS232 Driver/Receiver	16-Dip	5.51	4.16	2.77
MAX243CSE-ND	5V Powered Dual RS232 Driver/Receiver	16-SOIC	5.51	4.16	2.77
MAX249CQH-ND	5V, Multi-Channel RS232 Driver/Receiver	44-PLCC	20.27	15.30	10.20
MAX274ACWI-ND	8th-Order Analog Filter	28-SOIC	13.62	10.28	6.59
MAX261BCNG-ND	µP Programmable Universal Switched Cap Filter	24-Dip	17.25	13.02	8.35
MAX274BCNG-ND	8th-Order Analog Filter	24-Dip	12.40	9.36	6.00
MAX274BCWI-ND	8th-Order Analog Filter	28-SOIC	12.40	9.36	6.00
MAX275BCPP-ND	4th-Order Analog Filter	20-Dip	7.74	5.84	3.74
MAX275BCWP-ND	4th-Order Analog Filter	20-SOIC	7.74	5.84	3.74
MAX280CPA-ND	5th-Order Zero-Error, Butterworth Switched Cap LP Filter.	8-Dip	10.47	7.90	5.07
MAX280CWE-ND	5th Order Zero-Error, Butterworth Switched Cap LP Filter.	16-SOIC	10.47	7.90	5.07
MAX281ACPA-ND	5th-Order Zero Error, Bessel Switched Cap LP Filter	8-Dip	12.75	9.62	6.18
MAX281ACWE-ND	5th-Order Zero Error, Bessel Switched Cap LP Filter	16-SOIC	12.75	9.62	6.18
MAX281BCPA-ND	5th-Order Zero Error, Bessel Switched Cap LP Filter	8-Dip	10.47	7.90	5.07
MAX301CPE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPST)	16-Dip	4.58	3.46	2.47
MAX301CSE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPST)	16-SOIC	5.51	4.16	2.97
MAX303CPE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPDT)	16-Dip	9.65	7.28	5.22
MAX303CSE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPDT)	16-SOIC	11.55	8.72	6.24
MAX305CPE-ND	Precision Dual, Matched CMOS Switches (DPST, NO)	16-Dip	9.65	7.28	5.22
MAX305CSE-ND	Precision Dual, Matched CMOS Switches (DPST, NO)	16-SOIC	11.55	8.72	6.24
MAX306CPI-ND	Precision 16-Channel High Perform CMOS Analog Mux	28-Dip	11.53	8.70	6.21
MAX306CWI-ND	Precision 16-Channel High Perform CMOS Analog Mux.	28-SOIC	15.90	12.00	8.58
MAX307CPI-ND	Precision Dual 8-Ch. High Performance CMOS Analog Mux	28-Dip	11.53	8.70	6.21
MAX307CWI-ND	Precision Dual 8-Ch. High Performance CMOS Analog Mux.	28-SOIC	15.90	12.00	8.58
MAX308CPE-ND	Precision 8-Channel High Performance CMOS Analog Mux.	16-Dip	7.47	5.64	4.04
MAX308CSE-ND	Precision 8-Channel High Performance CMOS Analog Mux	16-SOIC	8.96	6.76	4.84
MAX309CPE-ND	Precision Dual 4-Ch. High Performance CMOS Analog Mux	16-Dip	7.47	5.64	4.04
MAX309CSE-ND	Precision Dual 4-Ch. High Performance CMOS Analog Mux.	16-SOIC	8.96	6.76	4.84
MAX311CWN-ND	RF/Video Differential 4-Channel Mux/Demux	18-SOIC	21.15	15.96	10.65
MAX313CSE-ND	CMOS Analog Switch, Quad, SPST *NEW!*	16-SOIC	10.71	8.08	4.75
MAX317CPA-ND	Precision SPST Normally Closed CMOS Analog Switch	8-Dip	3.21	2.42	1.74
MAX317CSA-ND	Precision SPST Normally Closed CMOS Analog Switch.	8-SOIC	3.74	2.82	2.02
MAX318CPA-ND	Precision SPST Normally Open Analog Switch	8-Dip	3.21	2.42	1.74
MAX318CSA-ND	Precision SPST Normally Open Analog Switch	8-SOIC	3.74	2.82	2.02
MAX319CPA-ND	Precision SPDT CMOS Analog Switch	8-Dip	4.29	3.24	2.31
MAX319CSA-ND	Precision SPDT CMOS Analog Switch	8-SOIC	4.74	3.58	2.56
MAX323CPA-ND	Precision, Single Supply, SPST Analog Switch	8-Dip	2.97	2.24	1.43
MAX323CSA-ND	Precision, Single Supply, SPST Analog Switch	8-SOIC	3.26	2.46	1.57
MAX326CPE-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch.	16-Dip	8.69	6.56	4.37
MAX326CSE-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch	16-SOIC	9.54	7.20	4.80
MAX328CPE-ND	8-Channel, Ultra-Low Leakage Monolithic CMOS Multiplexer	16-Dip	11.32	8.54	5.69
MAX328CWE-ND	8-Channel, Ultra-Low Leakage Monolithic CMOS Multiplexer	16-SOIC	12.43	9.38	6.26
MAX329CPE-ND	Diff. 4-Chan., Ultra-Low Leakage Monolithic CMOS Mux.	16-Dip	11.32	8.54	5.69
MAX329CWE-ND	Diff. 4-Chan., Ultra-Low Leakage Monolithic CMOS Mux	16-SOIC	12.43	9.38	6.26

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX333CPP-ND	Quad SPDT CMOS Analog Switch	20-Dip	7.21	5.44	3.63
MAX333CWP-ND	Quad SPDT CMOS Analog Switch	20-SOIC	9.30	7.02	4.68
MAX335CNG-ND	Serial, Controlled, 8-Channel SPST Switch	24-Dip	7.10	5.36	3.44
MAX335CWG-ND	Serial, Controlled, 8-Channel SPST Switch	24-SOIC	7.79	5.88	3.78
MAX351CPE-ND	Precision Quad SPST Analog Switch Normally Closed	16-Dip	6.60	4.98	3.56
MAX351CSE-ND	Precision Quad SPST Analog Switch Normally Closed	16-SOIC	8.56	6.46	4.62
MAX352CPE-ND	Precision Quad SPST Analog Switch Normally Open	16-Dip	6.60	4.98	3.56
MAX352CSE-ND	Precision Quad SPST Analog Switch Normally Open	16-SOIC	8.56	6.46	4.62
MAX353CPE-ND	Precision Quad SPST Analog Switch 2 N/C & 2 N/O	16-Dip	6.60	4.98	3.56
MAX353CSE-ND	Precision Quad SPST Analog Switch 2 N/C & 2 N/O	16	8.56	6.46	4.62
MAX354CPE-ND	Single 8-Channel Fault Protected Analog Mux	16-Dip	10.84	8.18	5.25
MAX354CWE-ND	Single 8-Channel Fault Protected Analog Mux	16-SOIC	10.84	8.18	5.25
MAX355CPE-ND	Dual 4-Channel Fault Protected Analog Mux	16-Dip	10.84	8.18	5.25
MAX355CWE-ND	Dual 4-Channel Fault Protected Analog Mux.	16-SOIC	10.84	8.18	5.25
MAX358CPE-ND	Fault Protected 8-Channel Multiplexer	16-Dip	10.84	8.18	5.25
MAX358CWE-ND	Fault Protected 8-Channel Multiplexer	16-SOIC	10.84	8.18	5.25
MAX359CPE-ND	Fault Protected Differential 4-Channel Multiplexer	16-Dip	10.84	8.18	5.25
MAX359CWE-ND	Fault Protected Differential 4-Channel Multiplexer	16-SOIC	10.84	8.18	5.25
MAX361CSE-ND	Precision Quad SPST Analog Switch N/C 3Ω Tolerance	16-SOIC	7.00	5.28	3.79
MAX362CPE-ND	Precision Quad SPST Analog Switch N/O 3Ω Tolerance	16-Dip	5.80	4.38	3.13
MAX362CSE-ND	Precision Quad SPST Analog Switch N/O 3Ω Tolerance	16-SOIC	7.00	5.28	3.79
MAX364CPE-ND	Precision Quad SPST Analog Switch N/C 2Ω Tolerance	16-Dip	3.42	2.58	1.85
MAX364CSE-ND	Precision Quad SPST Analog Switch N/C 2Ω Tolerance	16-SOIC	3.42	2.58	1.85
MAX365CPE-ND	Precision Quad SPST Analog Switch N/O 2Ω Tolerance	16-Dip	3.42	2.58	1.85
MAX365CSE-ND	Precision Quad SPST Analog Switch N/O 2Ω Tolerance	16-SOIC	3.42	2.58	1.85
MAX367CWN-ND	8-Signal Line Circuit Protectors	18-SOIC	6.70	5.06	3.24
MAX368CPN-ND	Fault Protected 8-Channel Latched Multiplexer	18-Dip	13.73	10.36	6.65
MAX368CWN-ND	Fault Protected 8-Channel Latched Multiplexer	18-SOIC	15.77	11.90	7.63
MAX378CPE-ND	High Voltage, Fault Protected Analog Multiplexer	16-Dip	15.90	12.00	7.70
MAX378CWG-ND	High Voltage, Fault Protected Analog Multiplexer	24-SOIC	15.90	12.00	7.70
MAX382CPN-ND	Low Voltage 8-Channel Mux with Latchable Inputs	18-Dip	10.15	7.66	5.48
MAX382CWN-ND	Low Voltage 8-Channel Mux with Latchable Inputs.	18-SOIC	12.16	9.18	6.56
MAX385CPE-ND	Precision Low Voltage Analog Switch	16-Dip	7.92	5.98	4.28
MAX388CPN-ND	8-Channel, High Volt, Fault-Protected Multiplexer	18-Dip	17.33	13.08	8.39
MAX389CPN-ND	Differential 4-Chan., High Volt., Fault Protected Multiplexer	18-Dip	17.33	13.08	8.39
MAX394CPP-ND	Low Voltage Quad SPDT, CMOS Analog Switch	20-Dip	9.09	6.86	4.58
MAX394CWP-ND	Low Voltage Quad SPDT CMOS Analog Switch	20-SOIC	11.71	8.84	5.90
MAX407CPA-ND	1.2µA Max., Dual, Single Supply Op Amp.	8-Dip	7.90	5.96	3.99
MAX407CSA-ND	1.2µA Max., Dual Single Supply Op Amp	8-SOIC	7.90	5.96	3.99
MAX409BCPA-ND	1.2µA Single Supply Op Amp	8-Dip	4.88	3.68	2.37
MAX409BCSA-ND	1.2µA Single Supply Op Amp	8-SOIC	4.88	3.68	2.37
MAX410CPA-ND	28MHz Low-Noise Low Voltage Precision Op Amp	8-Dip	5.80	4.38	2.82
MAX410CSA-ND	28MHz Low Noise Low Voltage Precision Op Amp	8-SOIC	5.80	4.38	2.82
MAX414CPD-ND	Low Noise Quad Op Amp	14-Dip	12.40	9.36	6.00
MAX414CSD-ND	Low Noise Quad Op Amp	14-SOIC	12.40	9.36	6.00
MAX417CPA-ND	1.2µA Dual Single Supply Op Amp	8-Dip	7.45	5.62	3.61
MAX417CSA-ND	1.2µA Dual Single Supply Op Amp	8-SOIC	7.45	5.62	3.61
MAX418CPD-ND	1.2µA Quad Single Supply Op Amp.	14-Dip	9.96	7.52	4.82
MAX418CSD-ND	1.2µA Quad Single Supply Op Amp	14-SOIC	9.96	7.52	4.82
MAX420CPA-ND	15V Chopper Stabilized Op Amp	8-Dip	8.98	6.78	4.38
MAX427CPA-ND	Ultra Low Noise Precision Op Amp	8-Dip	4.40	3.32	2.13
MAX427CSA-ND	Ultra Low Noise Precision Op Amp	8-SOIC	5.51	4.16	2.67
MAX435CPD-ND	275MHz, Differential Out, Wideband Transconductance Amp	14-Dip	6.81	5.14	3.29
MAX435CSD-ND	275MHz, Differential Out, Wideband Transconductance Amp	14-SOIC	6.81	5.14	3.29
MAX436CPD-ND	Wideband Transconductance Amplifier	14-Dip	6.81	5.14	3.29
MAX436CSD-ND	Wideband Transconductance Amplifier	14-SOIC	6.81	5.14	3.29
MAX437CPA-ND	Ultra-Low Noise Precision Op Amplifier	8-Dip	4.40	3.32	2.13
MAX437CSA-ND	Ultra Low Noise Precision Op Amp	8-SOIC	5.51	4.16	2.67
MAX452CPA-ND	50MHz CMOS Video Amplifier	8-Dip	6.76	5.10	3.40
MAX453CPA-ND	2-Channel 50MHz Video Multiplexer/Amp.	8-Dip	9.43	7.12	4.76
MAX454CPD-ND	4-Channel 50MHz Video Multiplexer/Amplifier	14-Dip	12.59	9.50	6.34
MAX454CSD-ND	4-Channel 50MHz Video Multiplexer/Amplifier	14-SOIC	13.86	10.46	6.98
MAX455CPP-ND	8-Channel 50MHz Video Multiplexer/Amplifier	20-Dip	20.96	15.82	10.56
MAX455CWP-ND	8-Channel 50MHz Video Multiplexer/Amplifier	20-SOIC	23.06	17.40	11.60
MAX456CPL-ND	8x8 Crosspoint Video Switch	40-Dip	50.03	37.76	24.20
MAX471EPA-ND	High Side Current Sense Precision Amp *NEW!*	8-Dip	7.66	5.78	3.40
MAX473CPA-ND	Single Supply 10MHz Op Amp	8-Dip	3.58	2.70	1.74
MAX473CSA-ND	Single Supply 10MHz Op Amp	8-SOIC	3.58	2.70	1.74
MAX474CPA-ND	Single Supply 10MHz Dual Op Amp	8-Dip	5.57	4.20	2.69
MAX474CSA-ND	Single Supply 10MHz Dual Op Amp.	8-SOIC	5.57	4.20	2.69
MAX475CPD-ND	Single Supply 10MHz Quad Op Amp	14-Dip	8.93	6.74	4.32
MAX475CSD-ND	Single Supply 10MHz Quad Op Amp	14-SOIC	8.93	6.74	4.32
MAX479CPD-ND	17µA Max Quad Single Supply Precision Op Amp	14-Dip	7.90	5.96	3.83
MAX479CSD-ND	17µA Max Quad Single Supply Precision Op Amp	14-SOIC	7.90	5.96	3.83
MAX481CPA-ND	RS485 Transceiver with Low I Shutdown Slew-Rate Ltd, 500µA	8-Dip	2.76	2.08	1.33
MAX483CPA-ND	RS485 Transceiver with Low I Shutdown Slew-Rate Ltd, 350µA	8-Dip	2.76	2.08	1.33
MAX485CPA-ND	RS485 Low Power Transceiver	8-Dip	2.76	2.08	1.33
MAX485CSA-ND	RS485 Low Power Transceiver	8-SOIC	2.76	2.08	1.33
MAX487CPA-ND	RS485/RS422 Transceiver with Low Power Shutdown	8-Dip	2.81	2.12	1.36
MAX487CSA-ND	RS485/RS422 Transceiver with Low Power Shutdown	8-SOIC	2.81	2.12	1.36
MAX487EESA-ND	RS485/RS422 Transceiver with Low Power Shutdown *NEW!*	8-SOIC	4.93	3.72	2.38
MAX488CPA-ND	RS485/RS422 Transceiver with Low Power Low Slew	8-Dip	2.81	2.12	1.36
MAX488CSA-ND	RS485/RS422 Transceiver with Low Power Low Slew.	8-SOIC	2.81	2.12	1.36
MAX489CPD-ND	RS485/RS422 Transceiver with Drive Enable	14-Dip	2.81	2.12	1.36
MAX489CSD-ND	RS485/RS422 Transceiver with Drive Enable.	14-SOIC	2.81	2.12	1.36
MAX489EPD-ND	RS485/RS422 Transceiver with Drive Enable	14-Dip	3.52	2.66	1.70
MAX490CPA-ND	RS485/RS422 Transceiver with Full Duplex	8-Dip	2.81	2.12	1.36
MAX490CSA-ND	RS485/RS422 Transceiver with Full Duplex.	8-SOIC	2.81	2.12	1.36
MAX491CPD-ND	RS485 Transceiver Tri-State Control	14-Dip	2.81	2.12	1.36
MAX492CPA-ND	Single Supply Dual Op Amp	8-Dip	5.57	4.20	2.69
MAX492CSA-ND	Single Supply Dual Op Amp.	8-SOIC	5.57	4.20	2.69
MAX494CPD-ND	Single Supply Quad Op Amp	14-Dip	8.93	6.74	4.32
MAX494CSD-ND	Single Supply Quad Op Amp.	14-SOIC	8.93	6.74	4.32
MAX495CPA-ND	Single Supply Op Amp	8-Dip	3.58	2.70	1.74
MAX495CSA-ND	Single Supply Op Amp	8-SOIC	3.58	2.70	1.74
MAX500BCPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	13.52	10.20	6.54
MAX500BCWE-ND	Quad Serial Input 8-Bit D/A Converter	16-SOIC	13.52	10.20	6.54
MAX501BCNG-ND	12-Bit Multiplexer DAC (8+4) Voltage Output	24-Dip	14.15	10.68	6.85
MAX502BCNG-ND	Parallel Voltage Output 12-Bit Multiplexer DAC	24-Dip	14.15	10.68	6.85
MAX502BCWG-ND	Parallel Voltage Output 12-Bit Multiplexer DAC.	24-SOIC	14.15	10.68	6.85
MAX503CNG-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC	24-Dip	8.32	6.28	4.03
MAX503CWG-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC	24-SOIC	8.32	6.28	4.03
MAX504CPD-ND	5V Low Power Voltage Output Serial 10-Bit DAC.	14-Dip	7.90	5.96	3.83
MAX504CSD-ND	5V Low Power Voltage Output Serial 10-Bit DAC	14-SOIC	7.90	5.96	3.83
MAX505ACWG-ND	CMOS, +5V, Quad, 8-Bit D/A Converter with Rail-to-Rail Outputs and 4 Separate Reference Inputs.	24-SOIC	23.19	17.50	11.23

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX505BCNG-ND	CMOS, +5V, Quad, 8-Bit D/A Converter with Rail-to-Rail Outputs and 4 Separate Reference Inputs	24-Dip	17.86	13.48	8.64
MAX506BCPP-ND	CMOS, +5V, Quad, 8-Bit D/A Converter with Rail-to-Rail Outputs and 1 Reference Input	20-Dip	15.66	11.82	7.58
MAX506BCWP-ND	CMOS, +5V, Quad, 8-Bit D/A Converter with Rail-to-Rail Outputs and 1 Reference Input	20-SOIC	15.66	11.82	7.58
MAX507BCNG-ND	Parallel Volt Output, 12-Bit DAC with Internal Reference	24-Dip	19.95	15.06	9.67
MAX507BCWG-ND	Parallel Volt Output, 12-Bit DAC with Internal Reference	24-SOIC	18.31	13.82	8.87
MAX508BCPP-ND	12-Bit DAC with Internal Reference, (8+4) Volt Output	20-Dip	19.95	15.06	9.67
MAX508BCWP-ND	12 Bit DAC with Internal Reference, (8+4) Volt Output	20-SOIC	19.95	15.06	9.67
MAX509BCPP-ND	Quad Serial Input 8-Bit D/A Converter	20-Dip	13.70	10.34	6.64
MAX509BCWP-ND	Quad Serial Input 8-Bit D/A Converter	20-SOIC	13.70	10.34	6.64
MAX510ACPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	15.95	12.04	7.73
MAX510BCPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	13.28	10.02	6.43
MAX510BCWE-ND	Quad Serial Input 8-Bit D/A Converter	16-SOIC	13.28	10.02	6.43
MAX512CPD-ND	8-Bit Voltage Out D/A Converter	14-Dip	7.53	5.68	3.65
MAX512CSD-ND	8-Bit Voltage Out D/A Converter	14-SOIC	7.53	5.68	3.65
MAX513CPD-ND	8-Bit Voltage Out D/A Converter	14-Dip	7.53	5.68	3.65
MAX513CSD-ND	8-Bit Voltage Out D/A Converter	14-SOIC	7.53	5.68	3.65
MAX514BCNG-ND	Quad CMOS 12-Bit Serial Input Mult. D/A Converter	24-Dip	35.67	26.92	17.26
MAX514BCWI-ND	Quad CMOS 12-Bit Serial Input Mult. D/A Converter	28-SOIC	35.67	26.92	17.26
MAX517BCPA-ND	Single 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	8-Dip	5.64	4.26	2.74
MAX517BCSA-ND	Single 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	8-SOIC	5.64	4.26	2.74
MAX518BCPA-ND	Dual 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	8-Dip	6.04	4.56	2.93
MAX518BCSA-ND	Dual 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	8-SOIC	6.04	4.56	2.93
MAX520BCPE-ND	Quad 8-Bit DAC w/2-Wire Interface Serial Unbuffered Output	16-Dip	9.28	7.00	4.50
MAX520BCWE-ND	Quad 8-Bit DAC w/2-Wire Interface Serial Unbuffered Output	16-SOIC	9.28	7.00	4.50
MAX521BCPP-ND	Octal 8-Bit Rail-to-Rail DAC w/2-Wire Serial Interface	20-Dip	13.12	9.90	6.35
MAX522CPA-ND	Dual 8-Bit Voltage Out Serial D/A Converter	8-Dip	6.04	4.56	2.93
MAX522CSA-ND	Dual 8-Bit Voltage Out Serial D/A Converter	8-SOIC	6.04	4.56	2.93
MAX525BCAP-ND	5V Quad 12-Bit VOUT Serial D/A Converter	20-SSOP	33.66	25.40	16.29
MAX525BCPP-ND	5V Quad 12-Bit VOUT Serial D/A Converter	20-Dip	33.66	25.40	16.29
MAX526DCNG-ND	Quad 12-Bit Voltage Output D/A Converter, .3”	24-Dip	48.68	36.74	23.55
MAX526DCWG-ND	Quad 12-Bit Voltage Output D/A Converter	24-SOIC	48.68	36.74	23.55
MAX527DCNG-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter, .3”	24-Dip	41.45	31.28	20.06
MAX527DCWG-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter	24-SOIC	41.45	31.28	20.06
MAX528CPP-ND	Octal 8-Bit Serial D/A Converter w/Output Buffer	20-Dip	16.91	12.76	8.18
MAX529CPP-ND	±5V Octal 8-Bit Serial DAC with Output Buffer	20-Dip	14.15	10.68	7.12
MAX529CWG-ND	±5V Octal 8-Bit Serial DAC with Output Buffer	24-SOIC	14.15	10.68	7.12
MAX530BCNG-ND	5V Low Power Voltage Out 12-Bit D/A Converter	24-Dip	14.26	10.76	6.91
MAX530BCWG-ND	5V Low Power Voltage Out 12-Bit D/A Converter	24-SOIC	14.26	10.76	6.91
MAX531BCPD-ND	5V Voltage Out 12-Bit Serial D/A Converter	14-Dip	14.26	10.76	6.91
MAX531BCSD-ND	5V Voltage Out 12-Bit Serial D/A Converter	14-SOIC	14.26	10.76	6.91
MAX532BCPE-ND	Dual, Serial Input, Voltage Output, 12-Bit Multiplying DAC	16-Dip	22.13	16.70	10.72
MAX532BCWE-ND	Dual, Serial Input Volt Output, 12-Bit Multiplying DAC	16-SOIC	22.13	16.70	10.72
MAX533BCEE-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	7.90	5.96	3.83
MAX533BCPE-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC	16-Dip	7.90	5.96	3.83
MAX534BCEE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	7.90	5.96	3.83
MAX534BCPE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-Dip	7.90	5.96	3.83
MAX535BCPA-ND	5V 13-Bit Voltage Out Serial D/A Converter	8-Dip	13.94	10.52	6.75
MAX535BCUA-ND	5V 13-Bit Voltage Out Serial D/A Converter	8-µMAX	13.94	10.52	6.75
MAX536BCPE-ND	Quad 12-Bit Voltage Out Serial D/A Converter	16-Dip	44.92	33.90	21.74
MAX536BCWE-ND	Quad 12-Bit Voltage Out Serial D/A Converter	16-SOIC	44.92	33.90	21.74
MAX538BCPA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-Dip	12.72	9.60	6.16
MAX538BCSA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-SOIC	12.72	9.60	6.16
MAX539BCPA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-Dip	12.72	9.60	6.16
MAX539BCSA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-SOIC	12.72	9.60	6.16
MAX541CCPA-ND	5V 16-Bit Serial Voltage Out D/A Converter	8-Dip	28.01	21.14	13.56
MAX541CCSA-ND	5V 16-Bit Serial Voltage Out D/A Converter	8-SOIC	25.71	19.40	12.44
MAX543BCPA-ND	CMOS 12-Bit Serial Multiplying D/A Converter	8-Dip	19.16	14.46	9.27
MAX543BCSA-ND	CMOS 12-Bit Serial Multiplying D/A Converter	8-SOIC	15.34	11.58	7.43
MAX544BCPA-ND	5V 14-Bit Serial Voltage Out D/A Converter	Dip-8	22.23	16.78	10.77
MAX544BCSA-ND	5V 14-Bit Serial Voltage Out D/A Converter	8-SOIC	22.23	16.78	10.77
MAX547ACMH-ND	Octal 13-Bit Voltage Out DAC/Parallel Interface	44-PQFP	94.92	71.64	45.93
MAX547BCQH-ND	Octal 13-Bit Voltage Out DAC/Parallel Interface	44-PLCC	77.57	58.54	37.53
MAX548ACPA-ND	2.5V – 5.5V Dual 8-Bit Voltage Out D/A Converter	8-Dip	4.64	3.50	2.24
MAX548ACUA-ND	2.5V – 5.5V Dual 8-Bit Voltage Out D/A Converter	8-µMAX	4.88	3.68	2.36
MAX560CWI-ND	+3.3V-Pwrd. RS232 4 Driver/5 Receiver with Receivers Active in Shutdown	28-SOIC	8.24	6.22	3.99
MAX604ESA-ND	Adjustable Low Dropout Regulator *NEW!*	8-SOIC	6.07	4.58	2.69
MAX629ESA-ND	High Voltage, Boost or Inverting DC-DC Converter *NEW!*	8-SOIC	7.37	5.56	3.26
MAX630CSA-ND	CMOS Step Up Switching Regulator	8-SOIC	7.95	6.00	3.84
MAX631ACPA-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator	8-Dip	6.86	5.18	3.32
MAX631ACSA-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX632ACPA-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator	8-Dip	6.86	5.18	3.32
MAX632ACSA-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX634CPA-ND	CMOS Micropower Inverting Switching Regulator	8-Dip	6.52	4.92	3.16
MAX634CSA-ND	CMOS Micropower Inverting Switching Regulator	8-SOIC	7.18	5.42	3.48
MAX635ACPA-ND	-5V/Adjustable Output CMOS Inverting Switching Regulator	8-Dip	6.86	5.18	3.32
MAX635ACSA-ND	5V/Adj Output CMOS Inverting Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX636ACPA-ND	-12V/Adjustable Output CMOS Inverting Switching Regulator	8-Dip	6.86	5.18	3.32
MAX636ACSA-ND	-12V/Adjustable Output CMOS Inverting Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX637ACPA-ND	-15V/Adjustable Output CMOS Inverting Switching Regulator	8-Dip	6.86	5.18	3.32
MAX637ACSA-ND	-15V/Adjustable Output CMOS Inverting Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX638ACPA-ND	5V Adjustable Output CMOS Step Down Switching Regulator	8-Dip	6.86	5.18	3.32
MAX638ACSA-ND	5V Adjustable Output CMOS Step Down Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX660CPA-ND	100mA CMOS Monolithic Voltage Converter	8-Dip	6.94	5.24	3.50
MAX660CSA-ND	100mA CMOS Monolithic Voltage Converter	8-SOIC	7.29	5.50	3.68
MAX662ACPA-ND	12V Supply for Flash Memory	8-Dip	4.80	3.62	2.32
MAX662ACSA-ND	12V Supply for Flash Memory	8-SOIC	4.90	3.70	2.37
MAX663CPA-ND	CMOS +5V/Adjustable Micropower Positive Voltage Regulator	8-Dip	4.21	3.18	2.03
MAX663CSA-ND	CMOS +5V/Adjustable Micropower Positive Voltage Regulator	8-SOIC	4.64	3.50	2.24
MAX665CPA-ND	CMOS +8V/Switched-Capacitor Voltage Converter	8-Dip	9.94	7.50	4.81
MAX666CPA-ND	CMOS +5V/Adjustable Volt Reg with Low Battery Detector	8-Dip	4.88	3.68	2.36
MAX666CSA-ND	CMOS +5V/Adjustable Volt Reg with Low Battery Detector	8-SOIC	5.35	4.04	2.59
MAX666ESA-ND	CMOS +5V/Adjustable Volt Reg with Low Battery Detector	8-SOIC	8.32	6.28	4.02
MAX667CPA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-Dip	5.49	4.14	2.76
MAX667CSA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-SOIC	5.72	4.32	2.88
MAX667ESA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-SOIC	7.39	5.58	3.72
MAX680CPA-ND	+5V to ±10V Voltage Converter	8-Dip	4.48	3.38	2.17
MAX680CSA-ND	+5V to ±10V Voltage Converter	8-SOIC	4.90	3.70	2.38
MAX687CSA-ND	3.3V High Accuracy Low Dropout Reg with Auto Shutdown	8-SOIC	4.35	3.28	2.10
MAX688CPA-ND	3.3V High Accuracy Low Dropout Regulator	8-Dip	4.35	3.28	2.10
MAX688CSA-ND	3.3V High Accuracy Low Dropout Regulator	8-SOIC	4.35	3.28	2.10
MAX690ACPA-ND	Microprocessor WDT Reset Circuit	8-Dip	6.94	5.24	3.36
MAX690ACSA-ND	Microprocessor WDT Reset Circuit	8-SOIC	7.29	5.50	3.53
MAX690CPA-ND	Microprocessor WDT Reset Circuit	8-Dip	7.23	5.46	3.50
MAX690EPA-ND	Microprocessor WDT Reset Circuit	8-Dip	10.49	7.92	5.08
MAX691ACPE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200ns	16-Dip	7.84	5.92	3.80
MAX691CPE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200ns	16-Dip	7.84	5.92	3.80
MAX691CWE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200ns	16-SOIC	8.64	6.52	4.18
MAX691EWE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200ns	16-SOIC	12.53	9.46	6.06
MAX692ACPA-ND	Microprocessor Supervisory Circuit	8-Dip	6.94	5.24	3.36
MAX692CPA-ND	Microprocessor Supervisory Circuit	8-Dip	7.23	5.46	3.50
MAX693ACPE-ND	Microprocessor Supervisory Circuit	16-Dip	7.84	5.92	3.80
MAX693CPE-ND	Microprocessor Supervisory Circuit	16-Dip	7.84	5.92	3.80
MAX693CWE-ND	Microprocessor Supervisory Circuit	16-SOIC	8.64	6.52	4.18
MAX694CPA-ND	Microprocessor WDT/Battery Switchover/ Reset Gen., Min. Reset Pulse Width, 140ms	8-Dip	7.23	5.46	3.50
MAX695CPE-ND	Microprocessor WDT/Battery Switchover/Reset Gen	16-Dip	7.84	5.92	3.80
MAX695CWE-ND	Microprocessor WDT/Battery Switchover/Reset Gen.	16-SOIC	8.64	6.52	4.18
MAX696CPE-ND	Microprocessor Supervise Circuit with Battery Switchover	16-Dip	7.84	5.92	3.78
MAX699CPA-ND	Low Cost Power-On Reset and WDT Controller	8-Dip	4.93	3.72	2.38
MAX699CWE-ND	Low Cost Power-On Reset and WDT Controller	16-SOIC	5.33	4.02	2.58
MAX700CSA-ND	Adjustable-Threshold Power-Supply Monitor with Reset	8-SOIC	5.19	3.92	2.62
MAX701CPA-ND	Power Supply Monitor with Reset	8-Dip	4.72	3.56	2.37
MAX701CSA-ND	Power Supply Monitor with Reset	8-SOIC	4.72	3.56	2.37
MAX701ESA-ND	Power Supply Monitor with Reset	8-SOIC	6.12	4.62	3.08
MAX703CPA-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset	8-Dip	6.10	4.60	2.95
MAX703CSA-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset	8-SOIC	6.10	4.60	2.95
MAX704CPA-ND	Low Cost, µP Supervisory Circuit w/Battery Backup, 4.4V Reset	8-Dip	6.10	4.60	2.95
MAX704CSA-ND	Low Cost, µP Supervisory Circuit w/Battery Backup, 4.4V Reset	8-SOIC	6.10	4.60	2.95
MAX705CPA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset	8-Dip	5.46	4.12	2.64
MAX705CSA-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset	8-SOIC	5.46	4.12	2.64
MAX706CPA-ND	Microprocessor Supervisor Circuit	8-Dip	5.46	4.12	2.64
MAX706CSA-ND	Microprocessor Supervisory Circuit	8-SOIC	5.46	4.12	2.64
MAX706SCPA-ND	Microprocessor Supervisor Circuit	8-Dip	5.91	4.46	2.86
MAX706SCSA-ND	Microprocessor Supervisor Circuit	8-SOIC	5.91	4.46	2.86
MAX706PCSA-ND	Microprocessor Supervisory Circuit	8-SOIC	5.91	4.46	2.86
MAX707CPA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.65V Reset	8-Dip	4.90	3.70	2.37
MAX707CSA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.65V Reset	8-SOIC	4.90	3.70	2.37
MAX708CPA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.4V Reset	8-Dip	4.90	3.70	2.37
MAX708CSA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.4V Reset	8-SOIC	4.90	3.70	2.37
MAX709RCSA-ND	Power Supply Monitor, 2.63V Reset	8-SOIC	2.86	2.16	1.39
MAX709MCPA-ND	Power Supply Monitor, 4.40V Reset	8-Dip	2.65	2.00	1.28
MAX709LCPA-ND	Power Supply Monitor, 4.65V Reset	8-Dip	2.65	2.00	1.28
MAX709LCSA-ND	Power Supply Monitor, 4.65V Reset	8-SOIC	2.86	2.16	1.39
MAX712CPE-ND	Battery Fast-Charge Controller for NIMH Battery	16-Dip	7.71	5.82	3.73
MAX712CSE-ND	Battery Fast Charger Controller for NIMH Battery	16-SOIC	8.08	6.10	3.92
MAX713CPE-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH Battery	16-Dip	7.71	5.82	3.73
MAX713CSE-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH Battery	16-SOIC	8.08	6.10	3.92
MAX714CPE-ND	3-Output Battery Management Supply	16-Dip	8.88	6.70	4.29
MAX722CSE-ND	+3.3V LCD Power Supply Regulator	16-SOIC	11.55	8.72	5.60
MAX724CCK-ND	5A, Step Down, PWM, Switch Mode DC/DC Reg.	5 Pin TO-220	11.71	8.84	6.32
MAX732CPA-ND	+12V Step Up Current Mode PWM Reg. for Flash Memory	8-Dip	6.52	4.92	3.16
MAX732CWE-ND	+12V Step Up Current Mode PWM Reg. for Flash Memory	16-SOIC	6.84	5.16	3.31
MAX734CPA-ND	+12V, 120mA Supply for Flash Memory	8-Dip	5.01	3.78	2.42
MAX734CSA-ND	+12V, 120mA Supply for Flash Memory	8-SOIC	5.54	4.18	2.68
MAX738ACWE-ND	5V, Step Down, PWM, DC/DC Converter *NEW!*	16-SOIC	6.70	5.06	2.98
MAX749CPA-ND	Digitally Adjustable LCD Bias Supply	8-Dip	6.49	4.90	3.14
MAX749CSA-ND	Digitally Adjustable LCD Bias Supply	8-SOIC	6.76	5.10	3.27
MAX750ACSA-ND	Adjustable Step Down Current Mode PWM Regulator	8-SOIC	5.57	4.20	2.69
MAX751CPA-ND	+5V Step Up Current Mode PWM DC/DC Converter	8-Dip	5.51	4.16	2.67
MAX752CPA-ND	Adjustable Step Up Current Mode PWM Regulator	8-Dip	7.37	5.56	3.57
MAX755CPA-ND	Adj., Neg. Output, Inverting, Current Mode PWM Regulator	8-Dip	4.85	3.66	2.35
MAX756CPA-ND	High Efficiency Step Up DC/DC Converter	8-Dip	4.80	3.62	2.33
MAX756CSA-ND	High Efficiency Step Up DC/DC Converter	8-SOIC	5.38	4.06	2.60
MAX758ACPA-ND	Adjustable Step Down Current Mode PWM Regulator	8-Dip	6.41	4.84	3.10
MAX759CWE-ND	Adjustable Inverting Current Mode PWM	16-SOIC	7.10	5.36	3.44
MAX759CPD-ND	Adjustable Inverting Current Mode PWM	14-Dip	6.78	5.12	3.27
MAX761CPA-ND	12V Adj High Efficiency Step Up DC/DC Converter	8-Dip	5.43	4.10	2.63
MAX761CSA-ND	12V Adj High Efficiency Step Up DC/DC Converter	8-SOIC	5.99	4.52	2.90
MAX764CSA-ND	High Efficiency, Low IQ, DC/DC Inverter *NEW!*	8-SOIC	6.10	4.60	2.70
MAX765CPA-ND	–12V DC/DC Inverter	8-Dip	5.99	4.52	2.90
MAX766CPA-ND	–15V DC/DC Inverter	8-Dip	5.99	4.52	2.90
MAX791CPE-ND	High Perform Microprocessor Supervisory Circuit	16-Dip	8.48	6.40	4.10
MAX791CSE-ND	High Perform Microprocessor Supervisory Circuit	16-SOIC	8.90	6.72	4.31
MAX797CSE-ND	Step Down, PWM Controller with Synchronous Rectifier for CPU with Low Noise	16-SOIC	9.41	7.10	4.56
MAX800LCPE-ND	µP Supervisory Circuit w/4.65V Reset, Chip Enable, Watchdog	16-Dip	9.28	7.00	4.50
MAX800MCPE-ND	µP Supervisory Circuit w/4.4V Reset, Chip Enable, Watchdog	16-Dip	9.28	7.00	4.50
MAX813LCPA-ND	Low Cost Microprocessor Supervisor Circuit	8-Dip	3.47	2.62	1.79
MAX813LCSA-ND	Low Cost Microprocessor Supervisor Circuit	8-SOIC	3.47	2.62	1.79
MAX872CPA-ND	10µA, Low Dropout, +2.5V Precision Volt Ref	8-Dip	5.09	3.84	2.46
MAX874CPA-ND	10µA, Low Dropout, +4.096V Precision Volt Ref	8-Dip	5.09	3.84	2.46
MAX876BCPA-ND	Low-Power, Low-Drift, +10V Precision Volt Ref	8-Dip	7.39	5.58	3.58
MAX882CSA-ND	5V/3.3V Adjustable Low Dropout Linear Regulator *NEW!*	8-SOIC	4.11	3.10	1.83
MAX882ESA-ND	5V/3.3V Adjustable Low Dropout Linear Regulator	8-SOIC	5.22	3.94	2.53
MAX901BCSE-ND	Quad High Speed Low Power, Voltage Comp.	16-SOIC	12.40	9.36	6.00
MAX902CSD-ND	Dual High Speed Low Power, Voltage Comp	14-SOIC	10.26	7.74	4.97
MAX907CPA-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp	8-Dip	4.27	3.22	2.07
MAX907CSA-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp	8-SOIC	4.27	3.22	2.07
MAX908CPD-ND	Quad, High Speed, Ultra L.P., Single +5V, TTL Comp	14-Dip	7.42	5.60	3.60
MAX921CSA-ND	Low Power Comparator with Reference.	8-SOIC	3.98	3.00	1.92
MAX921ESA-ND	Low Power Comparator with Reference.	8-SOIC	4.61	3.48	2.23
MAX922CSA-ND	Dual Ultra Low Power, Single Supply Comparator	8-SOIC	3.76	2.84	1.83
MAX923CSA-ND	Dual Ultra LP Single Supply Comp. with 1% Precision w/Ref.	8-SOIC	4.88	3.68	2.37
MAX924CSE-ND	Quad Ultra LP Single Supply Comp. with 1% Precision w/Ref.	16-SOIC	5.64	4.26	2.74
MAX931CPA-ND	Ultra Low Power Comparator	8-Dip	2.46	1.86	1.20

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MAXIM SPECIALIZED INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX932CSA-ND	Dual Ultra LP Single Supply Comp. w/2% Precision w/Ref	8-SOIC	3.15	2.38	1.53
MAX934CSE-ND	Quad Ultra LP Single Supply Comp. w/2% Precision w/Ref	16-SOIC	2.99	2.26	1.45
MAX941CSA-ND	Single, 3V/5V, Single Supply, 75nS, R-R Input Comparator	8-SOIC	3.45	2.60	1.68
MAX942CSA-ND	Dual, 3V/5V, Single Supply, 75nS, R-R Input Comparator	8-SOIC	3.71	2.80	1.80
MAX944CSD-ND	Quad, 3V/5V, Single Supply, 75nS, R-R Input Comparator	14-SOIC	6.15	4.64	2.98
MAX961ESA-ND	+3V/+5V, Beyond-the-Rails Comparator *NEW!*	8-SOIC	6.63	5.00	2.94
MAX971CSA-ND	Single, Ultra LP, Open-Output Comparator with 1% Accuracy	8-SOIC	3.95	2.98	1.91
MAX975ESA-ND	+3V/+5V Dual Speed Comparator with Auto Standby	8-SOIC	5.17	3.90	2.50
MAX975EUA-ND	+3V/+5V Dual Speed Comparator with Auto Standby	8-µMAX	5.17	3.90	2.50
MAX977ESD-ND	Dual, +3V/+5V Dual Speed Comparator with Auto Standby	14-SOIC	9.28	7.00	4.50
MAX1044CPA-ND	CMOS Switchcap Voltage Converter	8-Dip	2.68	2.02	1.35
MAX1110CAP-ND	2.7V 8-Bit 8-Channel Serial ADC with Reference	20-SSOP	5.38	4.06	2.61
MAX1110CPP-ND	2.7V 8-Bit 8-Channel Serial ADC with Reference	20-Dip	5.38	4.06	2.61
MAX1202BCAP-ND	5V 12-Bit 8-Channel Serial ADC with 3V Digital Interface	20-SSOP	18.31	13.82	8.87
MAX1202BCPP-ND	5V 12-Bit 8-Channel Serial ADC with 3V Digital Interface	20-Dip	18.31	13.82	8.87
MAX1204BCPP-ND	5V 10-Bit 8-Channel Serial ADC with 3V Digital Interface	20-Dip	11.95	9.02	5.79
MAX1232CPA-ND	Microprocessor Monitor	8-Dip	3.52	2.66	1.82
MAX1232CSA-ND	Microprocessor Monitor	8-SOIC	3.52	2.66	1.82
MAX1232EPA-ND	Microprocessor Monitor High Temperature	8-Dip	4.40	3.32	2.28
MAX1232ESA-ND	Microprocessor Monitor High Temperature	8-SOIC	4.58	3.46	2.37
MAX1241BCPA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-Dip	11.74	8.86	5.68
MAX1241BCSA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-SOIC	11.74	8.86	5.68
MAX1243BCPA-ND	2.7V Low Power 10-Bit Single Channel Serial ADC	8-Dip	7.08	5.34	3.43
MAX1243BCSA-ND	2.7V Low Power 10-Bit Single Channel Serial ADC	8-SOIC	7.08	5.34	3.43
MAX1247BCEE-ND	2.7V Low Power 12-Bit 4-Channel Serial ADC	16-QSOP	15.00	11.32	7.25
MAX1247BCPE-ND	2.7V Low Power 12-Bit 4-Channel Serial ADC	16-Dip	15.00	11.32	7.25
MAX1249BCEE-ND	2.7V Low Power 10-Bit 4-Channel Serial ADC	16-QSOP	10.20	7.70	4.94
MAX1249BCPE-ND	2.7V Low Power 10-Bit 4-Channel Serial ADC	16-Dip	11.13	8.40	5.39
MAX1480ACPI-ND	Isolated RS485/RS422 Data Interface *NEW!*	28-Dip	26.18	19.76	11.32
MAX1480BCPI-ND	Isolated RS485/RS422 Data Interface	28-Dip	25.02	18.88	11.80
MAX1480BEPI-ND	Isolated RS485/RS422 Data Interface	28-Dip	32.49	24.52	15.34
MAX1482CPD-ND	Full Duplex, Slew Rate Ltd, L.P. RS485 Transceiver	14-Dip	2.81	2.12	1.36
MAX1487CPA-ND	2.5 MBPS RS485/RS422 Transceiver	8-Dip	2.81	2.12	1.36
MAX1487CSA-ND	2.5 MBPS RS485/RS422 Transceiver	8-SOIC	2.81	2.12	1.36
MAX1623EAP-ND	Sync. Rectification, Low Voltage, Step-Down Reg. *NEW!*	20-SSOP	11.74	8.86	5.20
MAX1644EAE-ND	Sync. Rectification, Step Down Reg. *NEW!*	16-SSOP	10.02	7.56	4.45
MAX1659ESA-ND	Low Dropout Linear Regulator *NEW!*	8-SOIC	5.06	3.82	2.24
MAX1675EUA-ND	Step Up DC/DC Converter *NEW!*	8-UMAX	5.06	3.82	2.24
MAX1692EUB-ND	Step Down Regulator *NEW!*	10-UMAX	6.31	4.76	2.80
MAX1771CPA-ND	12V Adj Output Step Up DC/DC Converter 90% Efficient	8-Dip	4.45	3.36	2.15
MAX3100CEE-ND	SPI/Microwire-Compatible UART *NEW!*	16-QSOP	7.00	5.28	3.10
MAX3100CPD-ND	SPI/Microwire-Compatible UART *NEW!*	14-Dip	7.00	5.28	3.10
MAX3100EEE-ND	SPI/Microwire-Compatible UART *NEW!*	16-QSOP	9.99	7.54	4.43
MAX3110ECWI-ND	SPI/Microwire-Compatible UART *NEW!*	28-SOIC	11.61	8.76	5.16
MAX3221CAE-ND	RS232 Transceiver with Auto Shutdown *NEW!*	16-SSOP	2.84	2.14	1.37
MAX3221ECAE-ND	RS232 Transceiver with Auto Shutdown *NEW!*	16-SSOP	3.26	2.46	1.58
MAX3232CSE-ND	True RS232 Transceiver up to 1Mbps *NEW!*	16-SOIC	4.19	3.16	2.02
MAX3232CUE-ND	True RS232 Transceiver up to 1Mbps *NEW!*	16-TSSOP	4.16	3.14	1.85
MAX3490CSA-ND	3.3V Powered RS485/422 Transceiver	8-SOIC	3.82	2.88	1.84
MAX4121CSA-ND	330MHz Multiplexer/Crosspoint Building Block IC	8-SOIC	5.25	3.96	2.54
MAX4123ESA-ND	Single, 5MHz, Single Supply Op Amp with Shutdown	8-SOIC	2.60	1.96	1.26
MAX4125ESA-ND	Single, 10 V/µs, Single Supply Op Amp with Shutdown	8-SOIC	2.60	1.96	1.26
MAX4126ESA-ND	Dual, 5MHz, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4127ESD-ND	Dual, 5MHz, Single Supply Op Amp with Shutdown	14-SOIC	4.43	3.34	2.14
MAX4128ESA-ND	Dual, 10 V/µs, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4129ESD-ND	Quad, 5MHz, Single Supply Op Amp	14-SOIC	6.36	4.80	3.08
MAX4131ESA-ND	Single, 10MHz, Single Supply Op Amp with Shutdown	8-SOIC	2.60	1.96	1.26
MAX4132ESA-ND	Dual, 10MHz, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4134ESD-ND	Quad, 10MHz, Single Supply Op Amp	14-SOIC	6.36	4.80	3.08
MAX4172ESA-ND	High-Side Current Sense Amplifier	8-SOIC	3.84	2.90	1.87
MAX4172EUA-ND	High-Side Current Sense Amplifier	8-µMAX	3.52	2.66	1.71
MAX4220EEE-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	16-QSOP	10.49	7.92	5.08
MAX4220ESD-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	14-SOIC	10.49	7.92	5.08
MAX4420CPA-ND	High-Speed 6A MOSFET Driver, Non-Inverting	8-Dip	3.39	2.56	1.83
MAX4429CPA-ND	High-Speed 6A MOSFET Driver, Inverting	8-Dip	3.39	2.56	1.83
MAX5250BCAP-ND	5V 10-Bit Quad VOUT Serial DAC	20-SSOP	13.94	10.52	6.75
MAX5250BCPP-ND	5V 10-Bit Quad VOUT Serial DAC	20-Dip	13.94	10.52	6.75
MAX5251BCAP-ND	3V 10-Bit Quad VOUT Serial DAC	20-SSOP	13.94	10.52	6.75
MAX5253BCAP-ND	3V 12-Bit Quad VOUT Serial DAC	20-SSOP	31.99	24.14	15.48
MAX5253BCPP-ND	3V 12-Bit Quad VOUT Serial DAC	20-Dip	31.99	24.14	15.48
MAX5352BCPA-ND	5V 12-Bit VOUT Serial DAC	8-Dip	11.85	8.94	5.73
MAX5352BCUA-ND	5V 12-Bit VOUT Serial DAC	8-µMAX	11.85	8.94	5.73
MAX5353BCUA-ND	3.3V 12-Bit VOUT Serial DAC	8-µMAX	11.85	8.94	5.73
MAX5354CPA-ND	5V 10-Bit VOUT Serial DAC	8-Dip	7.61	5.74	3.69
MAX5354CUA-ND	5V 10-Bit VOUT Serial DAC	8-µMAX	7.61	5.74	3.69
MAX5355CUA-ND	3.3V 10-Bit VOUT Serial DAC	8-µMAX	8.16	6.16	3.96
MAX5402EUA-ND	256-Tap, Digital Potentiometer *NEW!*	8-UMAX	2.73	2.06	1.21
MAX6120ESA-ND	Low-Cost, Micropower, 1.2V Prec, 3-Terminal Volt Reference	8-SOIC	2.52	1.90	1.23
MAX6225AEPA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-Dip	13.70	10.34	6.64
MAX6225AESA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-SOIC	13.70	10.34	6.64
MAX6225BEPA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-Dip	6.31	4.76	3.06
MAX6225BESA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-SOIC	6.31	4.76	3.06
MAX6241AEPA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Reference	8-Dip	13.70	10.34	6.64
MAX6241AESA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Reference	8-SOIC	13.70	10.34	6.64
MAX6241BEPA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Reference	8-Dip	6.31	4.76	3.06
MAX6241BESA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Reference	8-SOIC	6.31	4.76	3.06
MAX6250AEPA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-Dip	13.70	10.34	6.64
MAX6250AESA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-SOIC	13.70	10.34	6.64
MAX6250BEPA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-Dip	6.31	4.76	3.06
MAX6250BESA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-SOIC	6.31	4.76	3.06
MAX6651EEE-ND	SMBus/I2C Compatible Interface *NEW!*	16-QSOP	7.79	5.88	3.38
MAX6954AAX-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	36-SSOP	24.04	18.14	11.34
MAX6954APL-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	40-Dip	24.04	18.14	11.34
MAX6955AAX-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	36-SSOP	24.04	18.14	11.34
MAX6955APL-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	40-Dip	24.04	18.14	11.34
MAX6956ANI-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander	28-Dip	8.16	6.16	3.85
MAX6956AAI-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander	28-SSOP	8.16	6.16	3.85
MAX6957ANI-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander	28-Dip	8.16	6.16	3.85
MAX6957AAI-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander	28-SSOP	8.16	6.16	3.85

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX7219CNG-ND	Serial Input 8-Digit LED Driver Multiplexed	24-Dip	10.81	8.16	5.44
MAX7219CWG-ND	Serial Input 8-Digit LED Driver Multiplexed	24-SOIC	10.81	8.16	5.44
MAX7221CWG-ND	Serially Interfaced, 8-Digit LED Display Driver *NEW!*	24-SOIC	10.81	8.16	5.44
MAX7645BCPP-ND	CMOS 12-Bit Buffered Multiplying DAC	20-Dip	15.77	11.90	7.63
MAX8211CPA-ND	Programmable Voltage Detector, Non-Inverting	8-Dip	3.45	2.60	1.68
MAX8211CSA-ND	Programmable Voltage Detector, Non-Inverting	8-SOIC	3.50	2.64	1.70
MAX8211ESA-ND	Programmable Voltage Detector, Non-Inverting	8-SOIC	5.27	3.98	2.56
MAX8212CPA-ND	Programmable Voltage Detector, Inverting	8-Dip	3.45	2.60	1.73
MAX8212CSA-ND	Programmable Voltage Detector, Inverting	8-SOIC	3.02	2.28	1.52
MAX8213ACPE-ND	Five Universal Voltage Monitors with Open-Drain Outputs	16-Dip	7.23	5.46	3.50
MAX8214ACPE-ND	Five Universal Voltage Monitors with Active Pull-Ups	16-Dip	7.23	5.46	3.50
MX574AJN-ND	Industry-Standard, Complete 12-Bit ADC	28-Dip	31.72	23.94	17.10
MX7226KN-ND	CMOS, Quad, 8-Bit DAC with Voltage Output Amp	20-Dip	27.37	20.66	14.75
MX7524JN-ND	CMOS 8-Bit Buffer DAC	16-Dip	5.86	4.42	3.15
MX7528JCWP-ND	CMOS Dual DAC 8-Bit Buffered	20-SOIC	8.80	6.64	4.74
MX7533JCWE-ND	CMOS 10-Bit D/A Converter	16-SOIC	6.60	4.98	3.55
MXD1210CSA-ND	Nonvolatile RAM Controller	8-SOIC	5.83	4.40	2.94
OP07EP-ND	Low Offset Voltage Op Amp	8-Dip	5.64	4.26	3.05

DALLAS SEMICONDUCTOR SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS12C887-ND	Real Time Clock with RAM, 128 Byte	24-Dip	8.96	6.76
DS18B20-ND	Programmable Resolution 1-Wire® Digital Thermometer	TO-92	5.04	3.80
DS18B20Z-ND	Programmable Resolution 1-Wire® Digital Thermometer	8-SOIC	5.04	3.80
DS18S20-ND	High Precision 1-Wire® Digital Thermometer	TO-92	5.04	3.80
DS18S20Z-ND	High Precision 1-Wire® Digital Thermometer	8-SOIC	5.04	3.80
DS21Q43AT-ND	5V, Quad E1 Framer	128-TQFP	148.53	112.10
DS21Q352-ND	3.3V, T1 Transceiver	256-BGA	189.13	142.74
DS21Q352N-ND	3.3V, T1 Transceiver, Ind. Temp.	256-BGA	217.51	164.16
DS21S07AE-ND	SCSI Terminator	20-TSSOP	4.11	3.10
DS21S07AS-ND	SCSI Terminator	16-SOIC	3.76	2.84
DS21T07E-ND	SCSI Terminator	20-TSSOP	3.66	2.76
DS21T09S-ND	Plug and Play SCSI Terminator, 2%	28-SOIC	6.36	4.80
DS32KHZ/DIP-ND	32.768kHz TCXO	14-Dip	10.15	7.66
DS32KHZN/BGA-ND	32.768kHz TCXO, Ind. Temp.	36-BGA	11.69	8.82
DS32KHZN/DIP-ND	32.768kHz TCXO, Ind. Temp.	14-Dip	11.69	8.82
DS56S-ND	Dual 3V/5V, Analog Temperature Sensor	8-SOIC	1.83	1.38
DS75S-ND	2-Wire Digital Temperature Sensor, LM75-compatible	8-SOIC	2.01	1.52
DS80C310-MCG-ND	High-Speed Microcontroller, 310, 25MHz	40-Dip	14.10	10.64
DS80C310-QCG-ND	High-Speed Microcontroller, 310, 25MHz	44-PLCC	12.72	9.60
DS80C320-ECG-ND	High-Speed/Low-Power Microcontroller, 320, 25MHz	44-TQFP	22.15	16.72
DS80C320-MCG-ND	High-Speed/Low-Power Microcontroller, 320, 25MHz	40-Dip	14.84	11.20
DS80C320-MCL-ND	High-Speed/Low-Power Microcontroller, 320, 33MHz	40-Dip	20.14	15.20
DS80C320-MNG-ND	HS/Low-Power Microcontroller, 320, 25MHz, Ind. Temp.	40-Dip	20.14	15.20
DS80C320-QCG-ND	High-Speed/Low-Power Microcontroller, 320, 25MHz	44-PLCC	19.13	14.44
DS80C320-QCL-ND	High-Speed/Low-Power Microcontroller, 320, 33MHz	44-PLCC	22.15	16.72
DS80C320-QNG-ND	HS/Low-Power Microcontroller, 320, 25MHz, Ind. Temp.	44-PLCC	22.15	16.72
DS87C520-ECL-ND	EPROM/ROM High-Speed Microcontroller, 33MHz	44-TQFP	44.31	33.44
DS87C520-MCL-ND	EPROM/ROM High-Speed Microcontroller, 33MHz	40-Dip	41.55	31.36
DS87C520-MNL-ND	EPROM/ROM High-Spd. Microcontroller, 33MHz, Ind. Temp.	40-Dip	47.83	36.10
DS87C520-QCL-ND	EPROM/ROM High-Speed Microcontroller, 33MHz	44-PLCC	42.29	31.92
DS87C520-QNL-ND	EPROM/ROM HS Microcontroller, 33MHz, Ind. Temp.	44-PLCC	48.84	36.86
DS87C520-WCL-ND	EPROM/ROM High-Speed Microcontroller, 33MHz	40-CDip	70.49	53.20
DS87C530-QCL-ND	EPROM/ROM Microcontroller with Real Time Clock, 33MHz	52-PLCC	47.33	35.72
DS87C530-QNL-ND	EPROM/ROM MCU w/Real Time Clock, 33MHz, Ind. Temp.	52-PLCC	54.38	41.04
DS87C550-QCL-ND	EPROM High-Speed Microcontroller with A/D and PWM	68-PLCC	41.29	31.16
DS232A-ND	Dual RS-232 Transmitter/Receiver	16-Dip	3.18	2.40
DS232A-N-ND	Dual RS-232 Transmitter/Receiver, Ind. Temp.	16-Dip	3.66	2.76
DS232AR-ND	Dual RS-232 Transmitter/Receiver, 150mil.	16-SOIC	3.74	2.82
DS232AR-N-ND	Dual RS-232 Transmitter/Receiver, 150mil. Ind. Temp.	16-SOIC	4.29	3.24
DS232AS-ND	Dual RS-232 Transmitter/Receiver, 300mil.	16-SOIC	3.74	2.82
DS275-ND	Line-Powered RS-232 Transceiver Chip	8-Dip	5.64	4.26
DS276S-ND	Low Power Transceiver Chip	8-SOIC	5.88	4.44
DS1000M-500-ND	5-Tap High Speed Silicon Delay Line, 500nS	8-Dip	5.04	3.80
DS1000Z-500-ND	5-Tap High Speed Silicon Delay Line, 500nS	8-SOIC	5.30	4.45
DS1004Z-2-ND	5-Tap High Speed Silicon Delay Line, 2nS Tap-to-Tap	8-SOIC	17.44	13.16
DS1004Z-3-ND	5-Tap High Speed Silicon Delay Line, 3nS Tap-to-Tap	8-SOIC	17.44	13.16
DS1004Z-4-ND	5-Tap High Speed Silicon Delay Line, 4nS Tap-to-Tap	8-SOIC	17.44	13.16
DS1005M-100-ND	5-Tap Silicon Delay Line, 100nS	8-Dip	5.30	4.00
DS1005S-250-ND	5-Tap Silicon Delay Line, 250nS	16-SOIC	6.36	4.80
DS1007S-2-ND	7 -1 Silicon Delay Line, 2nS	16-SOIC	16.38	12.36
DS1010-100-ND	10-Tap Silicon Delay Line, 100nS	14-Dip	7.95	6.00
DS1010-50-ND	10-Tap Silicon Delay Line, 50nS	14-Dip	7.95	6.00
DS1010S-100-ND	10-Tap Silicon Delay Line, 100nS	16-SOIC	9.54	7.20
DS1010S-500-ND	10-Tap Silicon Delay Line, 500nS	16-SOIC	9.54	7.20
DS1013M-15-ND	3-in-1 Silicon Delay Line, 15nS	8-Dip	6.36	4.80
DS1013M-40-ND	3-in-1 Silicon Delay Line, 40nS	8-Dip	6.36	4.80
DS1013M-150-ND	3-in-1 Silicon Delay Line, 150nS	8-Dip	6.36	4.80
DS1013S-10-ND	3-in-1 Silicon Delay Line, 10nS	16-SOIC	7.69	5.80
DS1013S-15-ND	3-in-1 Silicon Delay Line, 15nS	16-SOIC	7.69	5.80
DS1013S-20-ND	3-in-1 Silicon Delay Line, 20nS	16-SOIC	7.69	5.80
DS1020S-25-ND	Programmable 8-Bit Silicon Delay Line, .25nS	16-SOIC	46.56	35.14
DS1020S-100-ND	Programmable 8-Bit Silicon Delay Line, 1.00nS	16-SOIC	46.56	35.14
DS1021S-25-ND	Programmable 8-Bit Silicon Delay Line, .25nS	16-SOIC	20.14	15.20
DS1023S-25-ND	8-Bit Programmable Timing Element, .25nS	16-SOIC	18.55	14.00
DS1033Z-8-ND	3-in-1 Low Voltage Silicon Delay Line, 8nS	8-SOIC	12.61	9.52
DS1033Z-10-ND	3-in-1 Low Voltage Silicon Delay Line, 10nS	8-SOIC	12.61	9.52
DS1033Z-15-ND	3-in-1 Low Voltage Silicon Delay Line, 15nS	8-SOIC	12.61	9.52
DS1035Z-6-ND	3-in-1 High Speed Silicon Delay Line, 6nS	8-SOIC	9.96	7.52
DS1040Z-A15-ND	Programmable One-Shot Pulse Generator	8-SOIC	12.99	9.80
DS1100M-25-ND	5-Tap Delay Line, 25nS	8-Dip	5.64	4.26
DS1100M-50-ND	5-Tap Delay Line, 50nS	8-Dip	5.64	4.26
DS1100Z-20-ND	5-Tap Delay Line, 20nS	8-SOIC	6.33	4.78
DS1100Z-35-ND	5-Tap Delay Line, 35nS	8-SOIC	6.33	4.78
DS1100Z-40-ND	5-Tap Delay Line, 40nS	8-SOIC	6.33	4.78
DS1100Z-50-ND	5-Tap Delay Line, 50nS	8-SOIC	6.33	4.78
DS1100Z-100-ND	5-Tap Delay Line, 100nS	8-SOIC	6.33	4.78
DS1100Z-200-ND	5-Tap Delay Line, 200nS	8-SOIC	6.33	4.78
DS1100Z-250-ND	5-Tap Delay Line, 250nS	8-SOIC	6.33	4.78
DS1210-ND	Nonvolatile Controller Chip	8-Dip	4.85	3.66
DS1210N-ND	Nonvolatile Controller Chip, Ind. Temp.	8-Dip	5.70	4.30
DS1210S-ND	Nonvolatile Controller Chip	16-SOIC	5.22	3.94
DS1210SN-ND	Nonvolatile Controller Chip, Ind. Temp.	16-SOIC	6.41	4.84
DS1211-ND	Nonvolatile Controller x 8 Chip	20-Dip	33.52	25.30
DS1211S-ND	Nonvolatile Controller x 8 Chip	20-SOIC	37.76	28.50
DS1213B-ND	SmartSocket 16K/64K	28-Dip	22.66	17.10

✱DS9034PCX Powercap required; order DS9034PCX-ND

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1213C-ND	SmartSocket 256K	28-Dip	22.66	17.10
DS1213D-ND	SmartSocket 256K/1M	32-Dip	26.42	19.94
DS1216C-ND	SmartWatch/RAM, 64K/256K 5V	28-Dip	38.21	28.84
DS1216D-ND	SmartWatch/RAM, 256K/1M 5V	32-Dip	41.90	31.62
DS1216E-ND	SmartWatch/ROM, 64K, 256K, 1M 5V	28-Dip	38.21	28.84
DS1218S-ND	Nonvolatile Controller Chip	8-SOIC	13.20	9.96
DS1220AB-120-ND	Nonvolatile SRAM, 16K, 5%, 120nS	24-Dip	16.17	12.20
DS1220AB-150-ND	Nonvolatile SRAM, 16K, 5%, 150nS	24-Dip	15.77	11.90
DS1220AB-200-ND	Nonvolatile SRAM, 16K, 5%, 200nS	24-Dip	13.91	10.50
DS1220AD-200-ND	Nonvolatile SRAM, 16K, 10%, 200nS	24-Dip	15.77	11.90
DS1225AB-85-ND	Nonvolatile SRAM, 64K, 5%, 85nS	28-Dip	20.19	15.24
DS1225AB-150-ND	Nonvolatile SRAM, 64K, 5%, 150nS	28-Dip	19.72	14.88
DS1225AB-200-ND	Nonvolatile SRAM, 64K, 5%, 200nS	28-Dip	14.71	11.10
DS1225AB-200IND-ND	Nonvolatile SRAM, 64K, 5%, 200nS, Ind. Temp.	28-Dip	20.67	15.60
DS1225AD-85-ND	Nonvolatile SRAM, 64K, 10%, 85nS	28-Dip	20.19	15.24
DS1225AD-150-ND	Nonvolatile SRAM, 64K, 10%, 150nS	28-Dip	19.72	14.88
DS1225AD-200-ND	Nonvolatile SRAM, 64K, 10%, 200nS	28-Dip	19.72	14.88
DS1230AB-70-ND	Nonvolatile SRAM, 256K, 5%, 70nS	28-Dip	27.27	20.58
DS1230AB-100-ND	Nonvolatile SRAM, 256K, 5%, 100nS	28-Dip	26.63	20.10
DS1230AB-120-ND	Nonvolatile SRAM, 256K, 5%, 120nS	28-Dip	26.63	20.10
DS1230AB-200-ND	Nonvolatile SRAM, 256K, 5%, 200nS	28-Dip	26.63	20.10
DS1230Y-70-ND	Nonvolatile SRAM, 256K, 10%, 70nS	28-Dip	27.27	20.58
DS1230Y-70IND-ND	Nonvolatile SRAM, 256K, 10%, 70nS, Ind. Temp.	28-Dip	22.13	16.70
DS1230Y-120-ND	Nonvolatile SRAM, 256K, 10%, 120nS	28-Dip	20.80	15.70
DS1230Y-150-ND	Nonvolatile SRAM, 256K, 10%, 150nS	28-Dip	26.63	20.10
DS1230Y-200-ND	Nonvolatile SRAM, 256K, 10%, 200nS	28-Dip	20.80	15.70
DS1231S-20-ND	Power Monitor Chip, 20nS	16-SOIC	10.07	7.60
DS1231-20N-ND	Power Monitor Chip, 20nS, Ind. Temp.	8-Dip	9.54	7.20
DS1231-35-ND	Power Monitor Chip, 35nS	8-Dip	8.29	6.26
DS1232-ND	MicroMonitor Chip	8-Dip	2.09	1.58
DS1232N-ND	MicroMonitor Chip, Ind. Temp.	8-Dip	2.60	1.96
DS1232LP-ND	Low Power MicroMonitor Chip	8-Dip	2.25	1.70
DS1232LPS-ND	Low Power MicroMonitor Chip	16-SOIC	2.76	2.08
DS1232LPS-2-ND	Low Power MicroMonitor Chip	8-SOIC	2.25	1.70
DS1232LPSN-2-ND	Low Power MicroMonitor Chip, Ind. Temp.	8-SOIC	2.60	1.96
DS1232S-ND	MicroMonitor Chip	16-SOIC	2.76	2.08
DS1232SN-ND	MicroMonitor Chip, Ind. Temp.	16-SOIC	3.18	2.40
DS1233-5-ND	5V, EconoReset, 5%	TO-92	1.38	1.04
DS1233-10-ND	5V, EconoReset, 10%	TO-92	1.38	1.04
DS1233A-15-ND	3.3V, EconoReset, 15%	TO-92	1.38	1.04
DS1233AZ-10-ND	3.3V, EconoReset, 10%	SOT-223	2.25	1.70
DS1233AZ-15-ND	3.3V, EconoReset, 15%	SOT-223	2.41	1.82
DS1233D-5-ND	5V, EconoReset, No Pushbutton Reset, 5%	TO-92	1.38	1.04
DS1233D-10-ND	5V, EconoReset, No Pushbutton Reset, 10%	TO-92	1.38	1.04
DS1233D-15-ND	5V, EconoReset, No Pushbutton Reset, 15%	TO-92	1.38	1.04
DS1233DZ-5-ND	5V, EconoReset, No Pushbutton Reset, 5%	SOT-223	2.25	1.70
DS1233DZ-10-ND	5V, EconoReset, No Pushbutton Reset, 10%	SOT-223	2.25	1.70
DS1233DZ-15-ND	5V, EconoReset, No Pushbutton Reset, 15%	SOT-223	2.41	1.82
DS1233M-55-ND	5V, EconoReset	TO-92	1.38	1.04
DS1233MS-3-ND	3.3V, EconoReset	8-SOIC	2.89	2.18
DS1233MS-5-ND	5V, EconoReset	8-SOIC	2.89	2.18
DS1233Z-5-ND	EconoReset, 5%	SOT-223	2.25	1.70
DS1233Z-10-ND	EconoReset, 10%	SOT-223	2.41	1.82
DS1233Z-15-ND	EconoReset, 15%	SOT-223	2.41	1.82
DS1236-5-ND	MicroManager™ Chip, 5%	16-Dip	10.57	7.98
DS1236-10-ND	MicroManager™ Chip, 10%	16-Dip	10.57	7.98
DS1236AS-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1236AS-10-ND	MicroManager™ Chip, 10%	16-SOIC	12.35	9.32
DS1236S-10-ND	MicroManager™ Chip, 10%	16-SOIC	12.35	9.32
DS1238-10-ND	MicroManager™ Chip, 10%	16-Dip	10.57	7.98
DS1238AS-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1239S-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1243Y-120-ND	Nonvolatile SRAM with Phantom Clock, 64K, 120nS	28-Dip	44.31	33.44
DS1244Y-70-ND	Nonvolatile SRAM with Phantom Clock, 256K, 70nS	28-Dip	52.10	39.32
DS1245AB-120-ND	Nonvolatile SRAM, 1024K, 5%, 120nS	32-Dip	37.44	28.26
DS1245Y-100-ND	Nonvolatile SRAM, 1024K, 10%, 100nS	32-Dip	37.44	28.26
DS1245Y-120-ND	Nonvolatile SRAM, 1024K, 10%, 120nS	32-Dip	37.44	28.26
DS1245Y-70IND-ND	Nonvolatile SRAM, 1024K, 10%, 70nS, Ind. Temp.	32-Dip	40.12	30.28
DS1245YP-100-ND	Nonvolatile SRAM, 1024K, 10%, 100nS	34-PCM	29.87	22.54
DS1249Y-70-ND	Nonvolatile SRAM, 2048K, 10%, 70nS	32-Dip	67.68	51.08
DS1250WP-150-ND	3.3V, Nonvolatile SRAM, 4096K, 150nS	34-PCM	110.32	83.26
DS1250Y-100-ND	Nonvolatile SRAM, 4096K, 100nS	32-Dip	117.90	88.98
DS1259-ND	Battery Manager Chip	16-Dip	11.82	8.92
DS1259S-ND	Battery Manager Chip	16-SOIC	14.20	10.72
DS1260-100-ND	Smart Battery, 1000MAH @ 3V	16-Dip	24.17	18.24
DS1267-010-ND	Dual Digital Potentiometer Chip, 10K	14-Dip	8.32	6.28
DS1267-050-ND	Dual Digital Potentiometer Chip, 50K	14-Dip	8.32	6.28
DS1267-100-ND	Dual Digital Potentiometer Chip, 100K	14-Dip	8.32	6.28
DS1267E-10-ND	Dual Digital Potentiometer Chip, 10K	20-TSSOP	10.34	7.80
DS1267E-100-ND	Dual Digital Potentiometer Chip, 100K	20-TSSOP	10.34	7.80
DS1267S-010-ND	Dual Digital Potentiometer Chip, 10K	16-SOIC	9.57	7.22
DS1267S-050-ND	Dual Digital Potentiometer Chip, 50K	16-SOIC	9.57	7.22
DS1267S-100-ND	Dual Digital Potentiometer Chip, 100K	16-SOIC	9.57	7.22
DS1283S-ND	Watchdog Timekeeper Chip	28-SOIC	11.00	8.30
DS1283SN-ND	Watchdog Timekeeper Chip, Ind. Temp.	28-SOIC	12.67	9.56
DS1284-ND	Watchdog Timekeeper Chip	28-Dip	13.14	9.92
DS1284Q-ND	Watchdog Timekeeper Chip	28-PLCC	14.10	10.64
DS1284QN-ND	Watchdog Timekeeper Chip, Ind. Temp.	28-PLCC	14.60	11.02
DS1286-ND	Watchdog Timekeeper Chip	28-Dip	26.31	19.86
DS1302-ND	Trickle Charge Timekeeping Chip, 300mil.	8-Dip	3.31	2.50
DS1302N-ND	Trickle Charge Timekeeping Chip, Ind. Temp.	8-Dip	4.58	3.46
DS1302S-16-ND	Trickle Charge Timekeeping Chip, 300mil.	16-SOIC	6.81	5.14
DS1302SN-ND	Trickle Charge Timekeeping Chip, Ind. Temp.	8-SOIC	5.14	3.88
DS1302Z-ND	Trickle Charge Timekeeping Chip, 150mil.	8-SOIC	3.31	2.50
DS1305-ND	Serial Alarm Real-Time Clock, 300mil.	16-Dip	5.51	4.16
DS1305E-ND	Serial Alarm Real-Time Clock, 173mil.	20-TSSOP	7.18	5.42
DS1305EN-ND	Serial Alarm Real-Time Clock, Ind. Temp.	20-TSSOP	7.90	5.96
DS1306E-ND	Serial Alarm Real-Time Clock, 4.4mil.	20-TSSOP	7.90	5.96
DS1306EN-ND	Serial Alarm Real-Time Clock, Ind. Temp.	20-TSSOP	8.69	6.56
DS1307-ND	Serial Real-Time Clock, 64 x 8, 100mil.	8-Dip	4.16	3.14
DS1307Z-ND	Serial Real-Time Clock, 64 x 8, 150mil.	8-SOIC	3.31	2.50
DS1307ZN-ND	Serial Real-Time Clock, 64 x 8, Ind. Temp.	8-SOIC	5.41	4.08
DS1312S-ND	Nonvolatile Cont. with Lithium Battery Monitor, 300mil.	16-SOIC	15.32	11.56
DS1312S-2-ND	Nonvolatile Cont. with Lithium Battery Monitor, 150mil.	8-SOIC	12.19	9.20
DS1314S-ND	Nonvolatile Cont. with Lithium Battery Monitor, 3V, 300mil.	16-SOIC	12.51	9.44
DS1314S-2-ND	Nonvolatile Cont. with Lithium Battery Monitor, 3V, 150mil.	8-SOIC	16.01	12.08
DS1315-5-ND	5V, Phantom Time Chip, 300mil.	16-Dip	15.61	11.78
DS1315EN-33-ND	3.3V, Phantom Time Chip, Ind. Temp.	20-TSSOP	20.51	15.48
DS1315S-5-ND	5V, Phantom Time Chip, 300mil.	16-SOIC	18.13	13.68
DS1315SN-5-ND	5V, Phantom Time Chip, Ind. Temp. +B200	16-SOIC	20.51	15.48
DS1321S-ND	Flexible Nonvolatile Cont. with Lithium Battery Monitor, 5V	16-SOIC	10.15	7.66
DS1345WP-150-ND	3.3V, Nonvolatile SRAM with Battery Monitor, 1024K	34-PCM	32.86	24.80
DS1384FP-12-ND	Watchdog Timekeeping Controller, 120nS	44-PQFP	17.70	13.36
DS1386-32-120-ND	RAMified Watchdog Timekeeper, 256K	32-Dip	54.64	41.24
DS1486-120-ND	RAMified Watchdog Timekeeper, 1024K	32-Dip	64.79	48.90
DS1501WE-ND	3.3V, Y2KC Watchdog Real Time Clock	28-TSOP	12.08	9.12
DS1501WEN-ND	3.3V, Y2KC Watchdog Real Time Clock, Ind. Temp.	28-TSOP	13.89	10.48
DS1511W-ND	3.3V, Y2KC Watchdog Real Time Clock	28-Dip	20.86	15.74
DS1602-ND	Elapsed Time Counter	8-Dip	5.27	3.98
DS1602S-ND	Elapsed Time Counter	8-SOIC	5.99	4.52
DS1603-ND	Elapsed Time Counter Module	7-SIP	15.37	11.60
DS1609S-50-ND	Dual Port RAM, 50nS	24-SOIC	8.82	6.66
DS1620-ND	Digital Thermometer and Thermostat, 300mil.	8-Dip	6.97	5.26
DS1620S-ND	Digital Thermometer and Thermostat, 208mil.	8-SOIC	6.97	5.26
DS1621-ND	Digital Thermometer and Thermostat, 300mil.	8-Dip	4.61	3.48
DS1621S-ND	Digital Thermometer and Thermostat, 150mil.	8-SOIC	4.61	3.48
DS1621V-ND	Digital Thermometer and Thermostat, 208mil.	8-SOIC	4.61	3.48
DS1624-ND	Digital Thermometer and Memory, 300mil.	8-Dip	9.04	6.82
DS1624S-ND	Digital Thermometer and Memory, 208mil.	8-SOIC	9.04	6.82
DS1629S-ND	2-Wire Digital Thermometer and Real Time Clock, 150mil.	8-SOIC	7.76	5.86
DS1642-100-ND	Nonvolatile Timekeeping RAM, 100nS	24-Dip	25.25	19.06
DS1643-100-ND	Nonvolatile Timekeeping RAM, 100nS, 700mil.	28-Dip	26.34	19.88
DS1644-120-ND	Nonvolatile Timekeeping RAM, 120nS	28-Dip	34.56	26.08
DS1644P-120-ND	Nonvolatile Timekeeping RAM, 120nS	34-PCM*	35.96	27.14
DS1646-120-ND	Nonvolatile Timekeeping RAM, 120nS	32-Dip	54.93	41.46
DS1646P-120-ND	Nonvolatile Timekeeping RAM+B228, 120nS	34-PCM*	51.22	38.66
DS1666S-10-ND	Audio Digital Resistor	16-SOIC	4.72	3.56
DS1669-10-ND	Dallastat™ Electronic Digital Rheostat, 10K	8-Dip	6.81	5.14
DS1669-100-ND	Dallastat™ Electronic Digital Rheostat, 100K	8-Dip	6.81	5.14
DS1669S-10-ND	Dallastat™ Electronic Digital Rheostat, 10K	8-SOIC	7.18	5.42
DS1669S-50-ND	Dallastat™ Electronic Digital Rheostat, 50K	8-SOIC	7.18	5.42
DS1685E-3-ND	3V/5V, Real-Time Clock	24-TSSOP	6.44	4.86
DS1685QN-5-ND	5V, Real-Time Clock, Ind. Temp.	28-PLCC	7.90	5.96
DS1685S-5-ND	5V, Real-Time Clock	24-SOIC	6.41	4.84
DS1687-5-ND	5V, Real-Time Clock	24-Dip	9.38	7.08
DS1688S-ND	3V/5V, Serialized Real Time Clock with NV RAM Control	28-SOIC	9.38	7.08
DS1689S-ND	3V/5V, Serialized Real Time Clock with NV RAM Control	28-SOIC	9.38	7.08
DS1693-ND	3V/5V, Serialized Real Time Clock Module w/NV RAM Control	28-Dip	19.82	14.96
DS1705EPA-ND	3.3V/5V, MicroMonitor, 5%	8-Dip	2.25	1.70
DS1705ESA-ND	5V, MicroMonitor, 10%	8-Dip	2.25	1.70
DS1706ESA-ND	5V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1706LEPA-ND	5V, MicroMonitor, 5%	8-Dip	2.25	1.70
DS1706LESA-ND	5V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1706SESA-ND	3.3V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1706TESA-ND	3.3V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1707ESA-ND	5V, MicroMonitor, 5%	8-SOIC	2.04	1.54
DS1708ESA-ND	5V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1708SESA-ND	3.3V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1708TESA-ND	3.3V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1721S-ND	2-Wire Digital Thermometer and Thermostat	8-SOIC	3.87	2.92
DS1721U-ND	2-Wire Digital Thermometer and Thermostat	8-SOP	3.87	2.92
DS1722S-ND	2-Wire Digital Thermometer and Thermostat	8-SOIC	2.60	1.96
DS1722U-ND	2-Wire Digital Thermometer and Thermostat	8-MSOP	2.65	2.00
DS1742W-120-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS	24-Dip	30.87	23.30
DS1742W-150-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 150nS	24-Dip	29.52	22.28
DS1743-70-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS	28-Dip	40.86	30.84
DS1743-100-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 100nS	28-Dip	38.58	29.12
DS1743P-100-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 100nS	34-PCM*	28.73	21.68
DS1743WP-120-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS	34-PCM*	31.01	23.40
DS1744-70-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS	28-Dip	48.28	36.44
DS1746WP-120-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS	34-PCM*	52.50	39.62
DS1780E-ND	CPU Peripheral Monitor	24-TSSOP	5.04	3.80
DS1801E-014-ND	Dual Audio Taper Potentiometer	14-TSSOP	7.50	5.66
DS1803E-010-ND	Addressable Dual Digital Potentiometer	14-TSSOP	6.86	5.18
DS1803Z-010-ND	Addressable Dual Digital Potentiometer, 10K, 150mil.	16-SOIC	6.39	4.82
DS1803Z-050-ND	Addressable Dual Digital Potentiometer, 50K, 150mil.	16-SOIC	6.39	4.82
DS1803Z-100-ND	Addressable Dual Digital Potentiometer, 100K, 150mil.	16-SOIC	6.39	4.82
DS1804-010-ND	Nonvolatile Trimmer Potentiometer, 10K, 300mil.	8-Dip	3.10	2.34
DS1804-100-ND	Nonvolatile Trimmer Potentiometer, 100K, 300mil.	8-Dip	3.10	2.34
DS1804Z-010-ND	Nonvolatile Trimmer Potentiometer, 10K, 150mil.	8-SOIC	3.23	2.44
DS1804Z-050-ND	Nonvolatile Trimmer Potentiometer, 50K, 150mil.	8-SOIC	3.23	2.44
DS1804Z-100-ND	Nonvolatile Trimmer Potentiometer, 100K, 150mil.	8-SOIC	3.23	2.44
DS1806E-050-ND	Digital Sextet Potentiometer, 50K	20-TSSOP	12.08	9.12
DS1810-5-ND	5V, EconoReset with Push-Pull Output, 5%	TO-92	1.11	.84
DS1810-10-ND	5V, EconoReset with Push-Pull Output, 10%	TO-92	1.11	.84
DS1811-5-ND	5V, EconoReset with Open Drain Output, 5%	TO-92	1.11	.84
DS1811-10-ND	5V, EconoReset with Open Drain Output, 10%	TO-92	1.11	.84
DS1811-15-ND	5V, EconoReset with Open Drain Output, 15%	TO-92	1.11	.84
DS1812-5-ND	5V, EconoReset with Active High Push-Pull Output, 5%	TO-92	1.11	.84
DS1812-10-ND	5V, EconoReset with Active High Push-Pull Output, 10%	TO-92	1.11	.84
DS1813-5-ND	5V, EconoReset with Pushbutton, 5%	TO-92	1.11	.84
DS1813-10-ND	5V, EconoReset with Pushbutton, 10%	TO-92	1.11	.84
DS1815-10-ND	3.3V, EconoReset with Push-Pull Output, 10%	TO-92	1.11	.84
DS1818-10-ND	3.3V, EconoReset with Pushbutton, 10%	TO-92	1.11	.84
DS1821-ND	Programmable Digital Thermostat and Thermometer	3-PR35	5.75	4.34
DS1821S-ND	Programmable Digital Thermostat and Thermometer	8-SOIC	5.75	4.34
DS1822-ND	Econo 1-Wire® Digital Thermometer	TO-92	3.87	2.92
DS1831S-ND	Multi-Supply Micromonitor	16-SOIC	6.76	5.10
DS1832S-ND	3.3V, MicroMonitor Chip	8-SOIC	1.86	1.40
DS1833-5-ND	5V, Microprocessor EconoReset, 5%	TO-92	1.80	1.36
DS1833-10-ND	5V, Microprocessor EconoReset, 10%	TO-92	1.80	1.36
DS1833Z-5-ND	5V, Microprocessor EconoReset, 5%	SOT-223	3.15	2.38
DS1833Z-10-ND	5V, Microprocessor EconoReset, 10%	SOT-223	3.15	2.38
DS1834AS-ND	Dual Microprocessor EconoReset with Pushbutton	8-Dip	2.41	1.82
DS1834AU-ND	Dual Microprocessor EconoReset with Pushbutton	8-MSOP	2.60	1.96
DS1834S-ND	Dual Microprocessor EconoReset with Pushbutton	8-SOIC	2.41	1.82
DS1844S-010-ND	Quad Digital Potentiometer	20-SOIC	5.78	4.36
DS1845E-010-ND	Dual Nonvolatile Potentiometer and Memory, 10K	14-TSSOP	4.24	3.20
DS1845E-100-ND	Dual Nonvolatile Potentiometer and Memory, 100K	14-TSSOP	4.24	3.20
DS1866Z-ND	2.7-5.5V, Log Trimmer Potentiometer	8-Dip	2.94	2.22

*DS9034PCX Powercap required; order DS9034PCX-ND

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DALLAS SEMICONDUCTOR — SPECIALIZED INTEGRATED CIRCUITS *(Continued)*

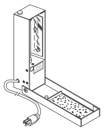
Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1867E-10-ND	Dual Digital Potentiometer with EEPROM, 10K	20-TSSOP	9.99	7.54
DS1867S-10-ND	Dual Digital Potentiometer with EEPROM, 10K	16-SOIC	9.73	7.34
DS1868-10-ND	Dual Digital Potentiometer Chip, 10K	14-Dip	5.59	4.22
DS1868E-10-ND	Dual Digital Potentiometer Chip, 10K	20-TSSOP	6.78	5.12
DS1868S-10-ND	Dual Digital Potentiometer Chip, 10K	16-SOIC	5.88	4.44
DS1869-10-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K	8-Dip	5.64	4.26
DS1869S-10-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K	8-SOIC	5.88	4.44
DS1869S-50-ND	3V, Dallastat™ Electronic Digital Rheostat, 50K	8-SOIC	5.88	4.44
DS2016-100-ND	3V/5V, 2K x 8, Operation Static RAM	24-Dip	11.13	8.40
DS2108S-ND	Differential SCSI Switchable Terminator	24-SOIC	14.68	11.08
DS2117MB-ND	Ultra3 LVD/SE SCSI Terminator	36-SSOP	7.45	5.62
DS2118MB-ND	Ultra2 LVD/SE SCSI Terminator	36-SSOP	7.45	5.62
DS2119ME-ND	Ultra3 LVD/SE SCSI Terminator	28-TSSOP	7.45	5.62
DS2141AQ-ND	5V, T1 Framer Controller	44-PLCC	50.99	38.48
DS2143Q-ND	5V, E1 Framer Controller	44-PLCC	50.99	38.48
DS2151QB-ND	5V, T1 Single Chip Transceiver	44-PLCC	77.65	58.60
DS2151QNB-ND	5V, T1 Single Chip Transceiver, Ind. Temp.	44-PLCC	89.31	67.40
DS2152L-ND	Enhanced T1 Single-Chip Transceiver	100-LQFP	68.98	52.06
DS2152LN-ND	Enhanced T1 Single-Chip Transceiver, Ind. Temp.	100-LQFP	79.26	59.82
DS2153Q-A7-ND	5V, E1 Single-Chip Transceiver	44-PLCC	77.65	58.60
DS2154L-ND	5V, Enhanced E1 Single Chip Transceiver	100-LQFP	68.98	52.06
DS2165Q-ND	5V, ADPCM Processor 16/24/32kpbs	24-PLCC	41.55	31.36
DS2172T-ND	Bit Error Rate Tester (BERT), 8-Bit	32-TQFP	18.26	13.78
DS2175-ND	T1/CEPT Elastic Store	16-Dip	24.41	18.42
DS2175S-ND	T1/CEPT Elastic Store	16-SOIC	26.82	20.24
DS2176-ND	T1 Receive Buffer	24-Dip	28.33	21.38
DS2176Q-ND	T1 Receive Buffer	28-PLCC	31.14	23.50
DS2180A-ND	T1 Transceiver	40-Dip	33.47	25.26
DS2180AQ-ND	T1 Transceiver	44-PLCC	38.37	28.96
DS2180AQN-ND	T1 Transceiver, Ind. Temp.	44-PLCC	44.65	33.70
DS2181A-ND	CEPT Primary Rate Transceiver	40-Dip	58.78	44.36
DS2181AQ-ND	CEPT Primary Rate Transceiver	44-PLCC	64.58	48.74
DS2187-ND	Receive Line Interface	18-Dip	34.74	26.22
DS2187S-ND	Receive Line Interface	20-SOIC	38.13	28.78
DS2188-ND	T1/CEPT Jitter Attenuator	16-Dip	15.87	11.98
DS2188S-ND	T1/CEPT Jitter Attenuator	16-SOIC	17.62	13.30
DS2250-32-16-ND	Soft Microcontroller Module, 32K x 8	40-SIMM	95.67	72.20
DS2252T-128-16-ND	Secure Microcontroller Module, 128K	40-SIMM	201.40	152.00
DS2282/8722282000-ND	T1 FDL Controller/Monitor Stik	30-SIP	118.83	89.68
DS2401-ND	Silicon Serial Number, 48-Bit, One-Wire	TO-92	1.86	1.40
DS2401P-ND	Silicon Serial Number, 48-Bit, One-Wire	6-TSOC	2.01	1.52
DS2401X1CT-ND	Silicon Serial Number, 48-Bit, One-Wire	6-CSP	1.03	.94
DS2401X1TR-ND	Silicon Serial Number, 48-Bit, One-Wire	6-CSP	5850.00/10,000	
DS2401Z-ND	Silicon Serial Number, 48-Bit, One-Wire	SOT-223	2.28	1.72
DS2404B-ND	EconoRAM Time Chip	16-SSOP	11.08	8.36
DS2404S-001-ND	EconoRAM Time Chip	16-SOIC	10.57	7.98
DS2405-ND	Addressable Switch, Open Drain	TO-92	2.23	1.68
DS2406P-ND	Dual Addressable Switch Plus 1K-Bit Memory	6-TSOC	6.78	5.12
DS2417P-ND	1-Wire™ Time Chip with Interrupt	6-TSOC	2.70	2.04
DS2430A-ND	256-Bit 1-Wire™ EEPROM	TO-92	3.39	2.56
DS2430AP-ND	256-Bit 1-Wire™ EEPROM	6-TSOC	3.52	2.66
DS2433-Z01-ND	4K-Bit 1-Wire™ EEPROM	PR-35	5.33	4.02
DS2436B-ND	Battery Identification/Monitor Chip	TO-92	3.74	2.82
DS2436Z-ND	Battery Identification/Monitor Chip	8-SOIC	3.74	2.82
DS2438Z-ND	Smart Battery Monitor	8-SOIC	3.87	2.92
DS2450S-ND	1-Wire™ Quad A/D Converter	8-SOIC	8.72	6.58
DS2480B-ND	Serial 1-Wire™ Line Driver with Load Sensor	8-SOIC	6.84	5.16
DS2502S-ND	1K-Bit Add-Only Memory	8-SOIC	4.61	3.48
DS2505-ND	16K-Bit Add-Only Memory	TO-92	4.37	3.30
DS2505P-ND	16K-Bit Add-Only Memory	6-TSOC	4.37	3.30
DS5000-32-16-ND	Soft Microcontroller Module, 32K-Bit	40-Dip	125.88	95.00
DS5000T-32-16-ND	Soft Microcontroller Module with Real Time Clock, 32K-Bit	40-Dip	138.46	104.50
DS9034PC-ND	PowerCap Module without Crystal	Powercap Module	7.58	5.72
DS9034PCX-ND	PowerCap Module with Crystal	Powercap Module	9.86	7.44
DS9502P-ND	ESD Protection Diode	6-TSOC	1.03	.78
DS9503P-ND	ESD Protection Diode with Resistor	6-TSOC	1.11	.84
DS12885Q-ND	Real Time Clock with RAM, 128 Byte	28-PLCC	8.03	6.06
DS12885S-ND	Real Time Clock with RAM, 128 Byte	24-SOIC	7.74	5.84
DS12887-ND	Real Time Clock with RAM, 128 Byte	24-Dip	8.96	6.76
DS12887A-ND	Real Time Clock with RAM, 128 Byte	24-Dip	8.96	6.76
DS14285Q-ND	Real Time Clock with NV RAM Control	28-PLCC	8.03	6.06
DS14287-ND	Real Time Clock with NV RAM Control	24-Dip	11.26	8.50
DS17285S-3-ND	3V, Real-Time Clock Chip	24-SOIC	9.01	6.80
DS17287-5-ND	5V, Real Time Clock with Battery and Crystal	24-Dip	14.79	11.16
DS17887-5-ND	5V, Real Time Clock	24-Dip	22.34	16.86
DS18030-010-ND	Addressable Dual Digital Potentiometer	16-Dip	5.88	4.44
DS21352L-ND	3.3V, T1 Single Chip Transceiver	100-LQFP	55.04	41.54
DS21352LN-ND	3.3V, T1 Single Chip Transceiver	100-LQFP	63.20	47.70
DS21354L-ND	3.3V, E1 Single Chip Transceiver	100-LQFP	55.04	41.54
DS21554L-ND	5V, E1 Single Chip Transceiver	100-LQFP	55.04	41.54

✱DS9034PCX Powercap required; order DS9034PCX-ND

RAYMING corporation — RF TRANSMITTER & RECEIVER BOARDS

Digi-Key Part No.	Description	Price Each★ 1	25	100
TX-01-ND	Encoder Motherboard utilizing the HT-12E Encoder IC; 2.7" x 1.75" (68.58mm x 44.45mm). Designed for use with either the TX-66 or TX-99V3 transmitters. Operating Voltage: 12 VDC	14.00	12.50	8.50
RE-01-ND	Decoder Motherboard utilizing the HT-12D Decoder IC; 3.2" x 2.4" (81.28mm x 60.96mm). Designed for use with either the RE-66 or RE-99V3 Receivers. Operating Voltage: 12 VDC	21.00	18.75	12.75
TX-66-ND	Serial Data Input 310 MHz SAW AM Transmitter Board. .75" x 1.75" (19.05mm x 44.45mm). Operating Voltage: 5VDC	15.40	13.75	9.35
RE-66-ND	Serial Data Output 310 MHz LC AM Receiver Board. 1.188" x 2.375" (30.18mm x 60.33mm). Operating Voltage: 5VDC	14.00	12.50	8.50
TX-99V3-ND	Serial Data Input 300MHz LC AM Transmitter Daughterboard. 1.8" x 0.8" (45.72mm x 20.32mm) Op. Voltage: 5 VDC. Data Rate: 1200 BPS	8.40	7.50	5.10
RE-99V3-ND	Serial Data Output 300MHz AM Receiver Daughterboard. 2.4" x 1.2" (60.96mm x 30.48mm) Op. Voltage: 5 VDC. Data Rate: 1200 BPS	14.00	12.50	8.50
TX-99K2-ND	Two Button, Key Chain Housed 300 MHz RF Transmitter Board with HT-12E Encoder. 2" x 2" (50.80mm x 50.80mm). Operates on one 12V (23A) Battery (Not included)	23.80	21.25	14.45

Jelight Company, Inc. — CHIPhERASER®



• Operating intensity is at least 25% greater than competitive systems for increased throughput • Excellent uniformity ensures fast and complete erasure • Quick load/unload trays for EPROMs • All metal housing • Heavy duty construction for ruggedness • Units may be stacked to save space • Safety interlock to prevent accidental UV exposure • Deep drawer for processing loaded PC boards

JEL10-ND (Holds 12 ICs)	$110.00
JEL20-ND (Holds 20 ICs, with 60 min. Dial Timer)	$175.00

MEMORY

FLASH MEMORY

Toshiba

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC58FVT160AFT-70-ND	16M-Bit 3V CMOS (2M x 8 / 1M x 16) Top Boot Block	48-TSOP	3.74	3.38	3.00
TC58FVB160AFT-70-ND	16M-Bit 3V CMOS (2M x 8 / 1M x 16) Bottom Boot Block	48-TSOP	3.32	3.00	2.66
TC58V64BFT-ND	64M-Bit 3V NAND (8M x 8)	44-TSOP	5.63	5.25	4.88
TC58128AFT-ND	128M-Bit 3V NAND (16M x 8)	48-TSOP	6.67	6.02	5.59
TC58256AFT-ND	256M-Bit 3.3V NAND (32M x 8)	48-TSOP	12.00	11.20	10.40
TH58100FT-ND	1Gigabit 3.3V CMOS NAND (128M x 8)	48-TSOP	67.50	63.00	58.50

SRAM

Toshiba

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC554001AF-70L-ND	4M-Bit SRAM (512K x 8)	32-SOP	4.43	4.13	3.84
TC554001AFT-70L-ND	4M-Bit SRAM (512K x 8)	32-TSOP	4.43	4.13	3.84
TC55W800FT55M-ND	8M-Bit SRAM (512K x 16)	48-TSOP	11.25	10.50	9.75

DRAM Controllers

National Semiconductor

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DP8422AV-25-ND	4Meg DRAM Programmer Controller	84-PLCC	27.60	25.76	23.92

EPROMS OTP (One Time Programmable)

Fairchild Semiconductor

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FM27C256V120-ND	256K, 120ns, CMOS EPROM, OTP	32-PLCC	2.88	2.31	1.80
FM27C256V150-ND	256K, 150ns, CMOS EPROM, OTP	32-PLCC	2.88	2.31	1.80
NMC87C257V200-ND	256K (32Kx8) CMOS Eprom with OTP adr Latch	32-PLCC	7.88	6.30	5.43
NM27LV010T250-ND	1Meg (128Kx8) Low Voltage Eprom 250ns OTP	32-TSOP	9.98	8.40	7.62

Extended Temperature EPROMS OTP (-40° to +85°C)

Fairchild Semiconductor

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NMC87C257VE150-ND	256K (32Kx8) CMOS Eprom with adr Latch	32-PLCC	8.66	6.93	5.97

EPROMS

Fairchild Semiconductor

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FM27C256Q120-ND	256K, 120ns, CMOS EPROM	28-CDip	3.62	2.90	2.26
FM27C256Q150-ND	256K, 150ns, CMOS EPROM	28-CDip	3.62	2.90	2.26
FM27C256QE150-ND	256K, 150ns, CMOS EPROM	28-CDip	3.74	2.99	2.33
FM27C512Q120-ND	512K, 120ns, CMOS EPROM	28-CDip	4.05	3.24	2.52
FM27C512Q150-ND	512K, 150ns, CMOS EPROM	28-CDip	4.05	3.24	2.52

Serial EEPROMs

Microchip Technology

2 Wire Interface

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
24LC00/P-ND	16x8 CMOS Serial EEPROM 2.5V	8-Dip	.36	.32	.27
24LC00/SN-ND	16x8 CMOS Serial EEPROM 2.5V	8-SOIC	.38	.32	.27
24C00/P-ND	16x8 CMOS Serial EEPROM 5V	8-Dip	.36	.32	.27
24LC00-I/P-ND	16x8 CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.36	.32	.27
24LC00-I/SN-ND	16x8 CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.38	.32	.27
24LC00-I/ST-ND	16x8 CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.43	.39	.33
24LC01B/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-Dip	.41	.32	.27
24LC01B-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.41	.32	.27
24LC01B/SN-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-SOIC	.43	.32	.27
24LC01B-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.43	.32	.27
24C01C/P-ND	1K (128x8) CMOS Serial EEPROM 5V (fast byte write)	8-Dip	.63	.45	.38
24C01C/SN-ND	1K (128x8) CMOS Serial EEPROM 5V (fast byte write)	8-SOIC	.65	.45	.38
24LC02B/P-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-Dip	.50	.42	.35
24LC02B-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.50	.42	.35
24LC02B/SN-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-SOIC	.54	.42	.35
24LC02B-I/SN-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.54	.42	.35
24LC02B/ST-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.56	.48	.41

(Continued)

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MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
24LC02B-I/ST-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.56	.48	.41
24C02C/P-ND	2K (256x8) CMOS Serial EEPROM 5V (fast byte write)	8-Dip	.68	.45	.38
24C02C/SN-ND	2K (256x8) CMOS Serial EEPROM 5V (fast byte write)	8-SOIC	.70	.45	.38
24LC04B/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.54	.42	.35
24LC04B-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.54	.42	.35
24LC04B/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.56	.42	.35
24LC04B-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.56	.42	.35
24LC04B/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.59	.48	.41
24LC04B-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.59	.48	.41
24LC08B/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-Dip	.56	.42	.35
24LC08B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.56	.42	.35
24LC08B/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	.59	.42	.35
24LC08B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.59	.42	.35
24LC08B/ST-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-TSSOP	.61	.48	.41
24LC08B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.61	.48	.41
24LC16B/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8 Dip	.63	.51	.44
24LC16B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.63	.51	.44
24LC16B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.70	.58	.49
24LC16B/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	.65	.51	.44
24LC16B-E/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V *NEW!*	8-SOIC	.81	.61	.52
24LC16B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.65	.51	.44
24LC32A/P-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-Dip	.86	.67	.57
24LC32A-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.86	.68	.57
24LC32A-I/SM-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.90	.68	.57
24LC32A/SN-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	.88	.68	.57
24LC32A-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.88	.68	.57
24LC32A-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.92	.74	.62
24AA65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 1.8V	8-Dip	2.76	2.54	2.15
24AA65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 1.8V	8-SOIC	2.59	2.54	2.15
24LC64-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, Ind Temp. 2.5V	8-Dip	.99	.80	.68
24LC64-I/SM-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.04	.80	.68
24LC64-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.01	.80	.68
24LC64-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.08	.87	.74
24LC65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 2.5V	8-Dip	2.70	2.54	2.15
24LC65-I/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM, Ind. Temp 2.5V	8-Dip	2.70	2.54	2.15
24LC65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 2.5V	8-SOIC	2.76	2.54	2.15
24LC65-I/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM, Ind. Temp 2.5V	8-SOIC	2.76	2.54	2.15
24C65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-Dip	2.76	2.54	2.15
24C65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-SOIC	2.59	2.54	2.15
24LC128-I/P-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.55	1.22	1.04
24LC128-I/SN-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.60	1.22	1.04
24LC128-I/ST-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.71	1.35	1.15
24LC256-E/P-ND	256K (32Kx8) CMOS Serial EEPROM 2.5V *NEW!*	8-Dip	2.43	1.83	1.55
24FC515-I/P-ND	512K (64Kx8) CMOS Serial EEPROM 2.5V *NEW!*	8-Dip	4.68	4.56	3.87
24FC515-I/SM-ND	512K (64Kx8) CMOS Serial EEPROM 2.5V *NEW!*	8-SOIC	4.73	4.56	3.87
24LC256-I/P-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	2.25	1.74	1.47
24LC256-I/SM-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.30	1.74	1.47
24LC256-I/SN-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.27	1.74	1.47
24LC256-I/ST-ND	256K (32Kx8) CMOS Serial EEPROM 2.5V	8-TSSOP	2.48	1.80	1.69
24LC256-I/MF-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2.75	2.51	2.13
24LC515-I/P-ND	512K (64x8) CMOS Serial EEPROM 2.5V	8-Dip	4.62	4.50	3.82
24LC515-I/SM-ND	512K (64x8) CMOS Serial EEPROM 2.5V	8-SOIC	4.68	4.50	3.82
24LC21/P-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-Dip	.65	.61	.52
24LC21/SN-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-SOIC	.61	.56	.47

SPI Serial EEPROMS

Digi-Key Part No.	Description	Pkg.	1	25	100
25LC040/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.79	.63	.54
25LC040/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.81	.77	.65
25C040/SN-ND	4K (512x8) CMOS Serial EEPROM 5V	8-SOIC	.81	.77	.65
25AA080/P-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-Dip	1.21	1.13	.95
25AA080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-SOIC	1.27	1.13	.95
25LC080/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.21	1.13	.95
25LC080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.27	1.13	.95
25C080/P-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-Dip	1.21	1.13	.95
25C080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.27	1.13	.95
25C080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	1.27	1.13	.95
25LC160/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.15	1.13	.95
25LC160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.18	1.13	.95
25C160/P-ND	16K (2Kx8) CMOS Serial EEPROM 5V	8-Dip	1.15	1.13	.95
25C160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.18	1.13	.95
25C160-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	1.15	1.13	.95
25AA320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM Ind. Temp. 1.8V	8-SOIC	1.08	.93	.79
25LC320/P-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.04	.93	.79
25LC320/SN-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.06	.93	.79
25C320/P-ND	32K (4Kx8) CMOS Serial EEPROM 5V	8-Dip	1.76	1.70	1.45
25C320/SN-ND	32K (4Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.79	1.73	1.48
25LC640-I/P-ND	64K (8Kx8) CMOS SPI Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.08	.93	.79
25LC640-I/SN-ND	64K (8Kx8) CMOS SPI Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.10	.93	.79

3 Wire Interface

Digi-Key Part No.	Description	Pkg.	1	25	100
93AA46/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM 1.8V-5.5V	8-Dip	.59	.55	.46
93AA46/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM 1.8V-5.5V	8-SOIC	.63	.55	.46
93AA46-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.63	.55	.46
93AA46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM 1.8V-5.5V *NEW!*	8-MSOP	.45	.42	.38
93AA46A-I/P-ND	1K (128x8) CMOS Serial EEPROM 1.8V-5.5V *NEW!*	8-Dip	.43	.39	.33
93AA46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM 1.8V-5.5V *NEW!*	8-SOIC	.43	.39	.33
93AA46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM 1.8V-5.5V *NEW!*	8-TSSOP	.45	.42	.38
93AA46B-I/P-ND	1K (64x16) CMOS Serial EEPROM 1.8V-5.5V *NEW!*	8-Dip	.43	.39	.33
93LC46/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.59	.55	.46
93LC46A/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.45	.39	.33
93LC46A/SN-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-SOIC	.47	.39	.33
93LC46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V *NEW!*	8-MSOP	.45	.42	.38
93LC46B/P-ND	1K (64x16) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.43	.39	.33
93LC46B/SN-ND	1K (64x16) CMOS Serial EEPROM 2.5V-5.5V	8-SOIC	.45	.39	.33
93LC46-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp, 2.5V-5.5V	8-SOIC	.63	.55	.46
93LC46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-Dip	.45	.39	.33
93LC46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-SOIC	.47	.39	.33
93LC46B-I/P-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-Dip	.43	.39	.33
93LC46B-I/SN-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.45	.39	.33
93C46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM 4.5V-5.5V *NEW!*	8-MSOP	.45	.42	.38
93C46A-I/P-ND	1K (128x8) CMOS Serial EEPROM 4.5V-5.5V *NEW!*	8-Dip	.43	.39	.33
93C46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM 4.5V-5.5V *NEW!*	8-SOIC	.43	.39	.33
93C46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM 4.5V-5.5V *NEW!*	8-TSSOP	.45	.42	.38
93C46AX-I/SN-ND	1K (128x8) CMOS Serial EEPROM 4.5V-5.5V *NEW!*	8-SOIC	.43	.39	.33
93AA56/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 1.8V	8-SOIC	.77	.64	.55
93LC56/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 2.5V	8-Dip	.72	.64	.55
93LC56/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 2.5V	8-SOIC	.77	.64	.55
93LC56A/P-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-Dip	.47	.42	.35
93LC56A/SN-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-SOIC	.50	.42	.35
93LC56B/P-ND	2K (128x16) CMOS Serial EEPROM 2.5V	8-Dip	.47	.42	.35
93LC56B/SN-ND	2K (128x16) CMOS Serial EEPROM 2.5V	8-SOIC	.50	.42	.35
93LC56-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.72	.64	.54
93LC56-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.77	.64	.54
93LC56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.47	.42	.35
93LC56B-I/P-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.47	.42	.35
93LC56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.50	.42	.35
93LC56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.54	.48	.41
93AA66/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 1.8V	8-Dip	.72	.64	.55
93AA66/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 1.8V	8-SOIC	.77	.64	.55
93LC66/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 2.5V	8-Dip	.72	.64	.55
93LC66/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 2.5V	8-SOIC	.74	.64	.55
93LC66A/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.56	.45	.38
93LC66A/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.59	.45	.38
93LC66A/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.61	.51	.44
93LC66B/P-ND	4K (256x16) CMOS Serial EEPROM 2.5V	8-Dip	.56	.45	.38
93LC66B/SN-ND	4K (256x16) CMOS Serial EEPROM 2.5V	8-SOIC	.59	.45	.38
93LC66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.56	.45	.38
93LC66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.59	.45	.38
93LC66B-I/P-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.56	.45	.38
93LC66B-I/SN-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.59	.45	.38
93LC86-I/SN-ND	16K (2Kx8 or 1Kx16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.15	1.00	.85

Fairchild Semiconductor

2 Wire Interface

Digi-Key Part No.	Description	Pkg.	1	25	100
NM24C08M-ND	8K-Bit CMOS Serial EEPROM	14-SOIC	1.68	1.34	1.01

3 Wire Interface

Digi-Key Part No.	Description	Pkg.	1	25	100
NM93C13M8-ND	256-Bit CMOS Serial EEPROM	8-SOIC	.98	.80	.68
NM93C13N-ND	256-Bit CMOS Serial EEPROM	8-Dip	.98	.80	.68
NM93C14N-ND	1K-Bit CMOS Serial EEPROM	8-Dip	1.05	.88	.70
NM93C56M-ND	2K-Bit CMOS Serial EEPROM	14-SOIC	1.63	1.30	.98
NM93CS06LN-ND	256-Bit CMOS Serial EEPROM 2.5V with Security	8-Dip	1.52	1.25	1.06
NM93CS06M-ND	256-Bit CMOS Serial EEPROM with Security	14-SOIC	1.13	.93	.79
NM95C12N-ND	1K-Bit CMOS Serial EEPROM	14-Dip	1.75	1.40	1.05

4 Wire Interface

Digi-Key Part No.	Description	Pkg.	1	25	100
FM93C06EN-ND	256-Bit Serial CMOS EEPROM	8-Dip	1.02	.85	.68
FM93C06M8-ND	256-Bit Serial CMOS EEPROM	8-SOIC	.96	.80	.64
FM93C06N-ND	256-Bit Serial CMOS EEPROM	8-Dip	.96	.80	.64
FM93C46ALM8-ND	1K-Bit Serial CMOS EEPROM	8-SOIC	1.02	.85	.68
FM93C46EM8-ND	1K-Bit Serial CMOS EEPROM	8-SOIC	1.02	.85	.68
FM93C46EN-ND	1K-Bit Serial CMOS EEPROM	8-Dip	1.02	.85	.68
FM93C46LM8-ND	1K-Bit Serial CMOS EEPROM	8-SOIC	1.02	.85	.68
FM93C46M8-ND	1K-Bit Serial CMOS EEPROM	8-SOIC	.96	.80	.64
FM93C46N-ND	1K-Bit Serial CMOS EEPROM	8-Dip	.96	.80	.64
FM93C56M8-ND	2K-Bit Serial CMOS EEPROM	8-SOIC	1.20	1.00	.80
FM93C56N-ND	2K-Bit Serial CMOS EEPROM	8-Dip	1.20	1.00	.80
FM93C66EN-ND	4K-Bit Serial CMOS EEPROM	8-Dip	1.32	1.10	.88
FM93C66M8-ND	4K-Bit Serial CMOS EEPROM	8-SOIC	1.26	1.05	.84
FM93C66N-ND	4K-Bit Serial CMOS EEPROM	8-Dip	1.26	1.05	.84
FM93CS46M8-ND	1K-Bit Serial EEprom with Data Protect	8-SOIC	1.44	1.20	.96
FM93CS46N-ND	1K-Bit Serial EEprom with Data Protect	8-Dip	1.47	1.23	.98
FM93CS56LM8-ND	2K-Bit Serial EEprom with Data Protect	8-SOIC	1.35	1.08	.81
FM93CS56M8-ND	2K-Bit Serial EEprom with Data Protect	8-SOIC	1.30	1.04	.78
FM93CS66N-ND	4K-Bit Serial EEprom with Data Protect	8-Dip	1.40	1.12	.84

High Temperature Serial EEPROMS

Fairchild Semiconductor

3 Wire Interface

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NM93C56EM-ND	2K-Bit CMOS Serial EEPROM	14-SOIC	1.63	1.30	.98

CYPRESS SRAM

Asynchronous SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C109B-12VC	428-1032-ND	1M-Bit, 128Kx8, Power Down, 12ns	Wide 32-SOJ	3.47	2.78	2.16
CY7C109B-15VC	428-1033-ND	1M-Bit, 128Kx8, Power Down, 15ns	Wide 32-SOJ	3.31	2.65	2.06
CY7C109B-15ZC	428-1034-ND	1M-Bit, 128Kx8, Power Down, 15ns	32-TSOP	3.47	2.78	2.16
CY7C109B-20VC	428-1035-ND	1M-Bit, 128Kx8, Power Down, 20ns	Wide 32-SOJ	2.97	2.38	1.85
CY7C109B-20ZC	428-1036-ND	1M-Bit, 128Kx8, Power Down, 20ns	32-TSOP	3.13	2.51	1.95
CY7C109B-25VC	428-1037-ND	1M-Bit, 128Kx8, Power Down, 25ns	Wide 32-SOJ	2.97	2.38	1.85
CY7C109B-35VC	428-1038-ND	1M-Bit, 128Kx8, Power Down, 35ns	Wide 32-SOJ	2.97	2.38	1.85
CY7C128A-15PC	428-1039-ND	16K-Bit, 2Kx8, Power Down, 15ns	24-SDip	5.40	4.32	3.36
CY7C128A-15VC	428-1040-ND	16K-Bit, 2Kx8, Power Down, 15ns	24-SOJ	5.13	4.11	3.20
CY7C128A-20PC	428-1041-ND	16K-Bit, 2Kx8, Power Down, 20ns	24-SDip	4.95	3.96	3.08
CY7C128A-20VC	428-1042-ND	16K-Bit, 2Kx8, Power Down, 20ns	24-SOJ	4.61	3.69	2.87
CY7C128A-25PC	428-1043-ND	16K-Bit, 2Kx8, Power Down, 25ns	24-SDip	4.95	3.96	3.08
CY7C128A-25VC	428-1044-ND	16K-Bit, 2Kx8, Power Down, 25ns	24-SOJ	4.61	3.69	2.87
CY7C128A-35PC	428-1045-ND	16K-Bit, 2Kx8, Power Down, 25ns	24-SDip	4.95	3.96	3.08
CY7C128A-35VC	428-1046-ND	16K-Bit, 2Kx8, Power Down, 35ns	24-SOJ	4.61	3.69	2.87
CY7C128A-45PC	428-1047-ND	16K-Bit, 2Kx8, Power Down, 45ns	24-SDip	5.60	4.48	3.78
CY7C185-15VC	428-1052-ND	64K-Bit, 8Kx8, Power Down, 15ns	28-SOJ	3.51	2.81	2.19
CY7C185-20PC	428-1053-ND	64K-Bit, 8Kx8, Power Down, 15ns	28-SDip	3.04	2.43	1.89
CY7C185-20VC	428-1054-ND	64K-Bit, 8Kx8, Power Down, 20ns	28-SOJ	3.15	2.52	1.96
CY7C185-25PC	428-1055-ND	64K-Bit, 8Kx8, Power Down, 25ns	28-SDip	3.04	2.43	1.89

(Continued)

SRAM *(Continued)*

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C185-25VC	428-1056-ND	64K-Bit, 8Kx8, Power Down, 25ns	28-SOJ	3.15	2.52	1.96
CY7C185-35PC	428-1057-ND	64K-Bit, 8Kx8, Power Down, 35ns	28-SDip	3.04	2.43	1.89
CY7C185-35VC	428-1058-ND	64K-Bit, 8Kx8, Power Down, 35ns	28-SOJ	3.15	2.52	1.96
CY7C199-10VC	428-1059-ND	256K-Bit, 32Kx8, Power Down, 10ns	28-SOJ	2.39	1.91	1.49
CY7C199-12VC	428-1060-ND	256K-Bit, 32Kx8, Power Down, 12ns	28-SOJ	2.20	1.76	1.32
CY7C199-15PC	428-1061-ND	256K-Bit, 32Kx8, Power Down, 15ns	28-SDip	2.30	1.84	1.38
CY7C199-15VC	428-1062-ND	256K-Bit, 32Kx8, Power Down, 15ns	28-SOJ	2.10	1.68	1.26
CY7C199-15ZC	428-1063-ND	256K-Bit, 32Kx8, Power Down, 15ns	28-TSOP	2.20	1.76	1.32
CY7C199-20PC	428-1064-ND	256K-Bit, 32Kx8, Power Down, 20ns	28-SDip	2.08	1.66	1.25
CY7C199-20VC	428-1065-ND	256K-Bit, 32Kx8, Power Down, 20ns	28-SOJ	1.90	1.52	1.14
CY7C199-20ZC	428-1066-ND	256K-Bit, 32Kx8, Power Down, 20ns	28-TSOP	2.00	1.60	1.20
CY7C199-25PC	428-1067-ND	256K-Bit, 32Kx8, Power Down, 25ns	28-SDip	2.08	1.66	1.25
CY7C199-25VC	428-1068-ND	256K-Bit, 32Kx8, Power Down, 25ns	28-SOJ	1.90	1.52	1.14
CY7C199-35PC	428-1069-ND	256K-Bit, 32Kx8, Power Down, 35ns	28-SDip	2.08	1.66	1.25
CY7C199-35VC	428-1070-ND	256K-Bit, 32Kx8, Power Down, 35ns	28-SOJ	1.90	1.52	1.14
CY7C1009B-12VC	428-1000-ND	1M-Bit, 128Kx8, Power Down, 12ns	32-SOJ	3.47	2.78	2.16
CY7C1009B-15VC	428-1001-ND	1M-Bit, 128Kx8, Power Down, 15ns	32-SOJ	3.31	2.65	2.06
CY7C1009B-20VC	428-1002-ND	1M-Bit, 128Kx8, Power Down, 20ns	32-SOJ	2.97	2.38	1.85
CY7C1019B-12VC	428-1003-ND	1M-Bit, 128Kx8, Power Down, 12ns	Wide 32-SOJ	3.04	2.43	1.89
CY7C1019B-15VC	428-1004-ND	1M-Bit, 128Kx8, Power Down, 15ns	Wide 32-SOJ	2.90	2.33	1.81
CY7C1019CV33-12VC	428-1476-ND	1M-Bit, 128Kx8, 3.3V, Power Down, 12ns	32-SOJ	2.93	2.34	1.82
CY7C1020-15ZC	428-1007-ND	512K-Bit, 32Kx16, Power Down, 15ns	44-TSOP2	4.19	3.35	2.61
CY7C1020CV33-15ZC	428-1477-ND	512K-Bit, 32Kx16, 3.3V, Power Down, 15ns	44-TSOP2	3.24	2.60	2.02
CY7C1020V33-15ZC	428-1008-ND	512K-Bit, 32Kx16, 3.3V, Power Down, 15ns	44-TSOP2	4.21	3.37	2.62
CY7C1021B-12VC	428-1009-ND	1M-Bit, 64Kx16, Power Down, 12ns	Wide 44-SOJ	3.04	2.43	1.89
CY7C1021B-15VC	428-1010-ND	1M-Bit, 64Kx16, Power Down, 15ns	Wide 44-SOJ	2.90	2.33	1.81
CY7C1021B-15ZC	428-1011-ND	1M-Bit, 64Kx16, Power Down, 15ns	44-TSOP2	3.04	2.43	1.89
CY7C1021BV33-12VC	428-1014-ND	1M-Bit, 64Kx16, 3.3V, Pwr. Down, 12ns	Wide 44-SOJ	4.32	3.46	2.69
CY7C1021BV33-15VC	428-1016-ND	1M-Bit, 64Kx16, 3.3V, Pwr. Down, 15ns	Wide 44-SOJ	4.12	3.30	2.57
CY7C1021BV33L-15ZC	428-1018-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 15ns	44-TSOP2	4.84	3.87	3.01
CY7C1021CV33-10VC	428-1478-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 10ns	44-SOJ	3.06	2.45	1.91
CY7C1021CV33-10ZC	428-1479-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 10ns	44-TSOP2	3.22	2.58	2.01
CY7C1021CV33-12VC	428-1480-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 12ns	44-SOJ	2.93	2.34	1.82
CY7C1021CV33-15VC	428-1481-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 15ns	44-SOJ	2.79	2.24	1.74
CY7C1021CV33-15ZC	428-1482-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 15ns	44-TSOP2	2.93	2.34	1.82
CY7C1041B-15VC	428-1019-ND	4M-Bit, 256Kx16, LP, Pwr. Down, 15ns	Wide 44-SOJ	9.48	8.54	7.57
CY7C1041B-15ZC	428-1020-ND	4M-Bit, 256Kx16, LP, Pwr. Down, 15ns	44-TSOP2	10.00	9.00	7.98
CY7C1041BV33-20ZC	428-1024-ND	4M-Bit, 256Kx16, 3.3V, LP, Power Down, 20ns	44-TSOP2	10.91	9.83	8.72
CY7C1041CV33-12ZC	428-1484-ND	4M-Bit, 256Kx16, 3.3V, LP, Power Down, 12ns	44-TSOP2	9.58	8.63	7.65
CY7C1041CV33-15VC	428-1483-ND	4M-Bit, 256Kx16, 3.3V, LP, Power Down, 15ns	44-SOJ	8.60	7.74	6.87
CY7C1041CV33-15ZC	428-1485-ND	4M-Bit, 256Kx16, 3.3V, LP, Power Down, 15ns	44-TSOP2	9.08	8.18	7.25
CY7C1041CV33-20ZC	428-1486-ND	4M-Bit, 256Kx16, 3.3V, LP, Power Down, 20ns	44-TSOP2	8.66	7.80	6.92
CY7C1049B-15VC	428-1025-ND	4M-Bit, 512Kx8, LP, Power Down, 15ns	36-SOJ	9.48	8.54	7.57
CY7C1049B-17VC	428-1026-ND	4M-Bit, 512Kx8, LP, Power Down, 15ns	36-SOJ	9.00	8.10	7.19
CY7C1049B-20VC	428-1027-ND	4M-Bit, 512Kx8, LP, Power Down, 20ns	36-SOJ	8.58	7.73	6.85
CY7C1049BL-17VC	428-1028-ND	4M-Bit, 512Kx8, LP, Power Down, 17ns	36-SOJ	14.99	13.50	11.97
CY7C1049BL-25VC	428-1029-ND	4M-Bit, 512Kx8, LP, Power Down, 25ns	36-SOJ	13.49	12.15	10.78
CY7C1049CV33-15VC	428-1487-5-ND	4M-Bit, 512Kx8, 3.3V, LP, Power Down, 15ns	36-SOJ	8.60	7.74	6.87
CY7C1049CV33-20VC	428-1488-5-ND	4M-Bit, 512Kx8, 3.3V, LP, Power Down, 20ns	36-SOJ	9.80	7.84	6.62
CY7C1399B-12VC	428-1048-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 12ns	28-SOJ	2.20	1.76	1.32
CY7C1399B-12ZC	428-1049-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 12ns	28-TSOP	2.30	1.84	1.38
CY7C1399B-15VC	428-1050-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 15ns	28-SOJ	2.10	1.68	1.26
CY7C1399B-15ZC	428-1051-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 15ns	28-TSOP	2.20	1.76	1.32

Synchronous SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C1325B-100AC	428-1086-ND	4M-Bit, 256Kx18, 3.3V Sync. SRAM	100-TQFP	9.30	7.44	6.28
CY7C1325B-117AC	428-1087-ND	4M-Bit, 256Kx18, 3.3V Sync. SRAM	100-TQFP	9.70	7.76	6.55
CY7C1327B-100AC	428-1088-ND	4M-Bit, 256Kx18, 3.3V Sync. Pipe SRAM	100-TQFP	9.30	7.44	6.28
CY7C1327B-133AC	428-1089-ND	4M-Bit, 256Kx18, 3.3V Sync. Pipe SRAM	100-TQFP	9.70	7.76	6.55
CY7C1329-100AC	428-1090-ND	2M-Bit, 64Kx32, 3.3V Sync. Pipe SRAM	100-TQFP	5.90	4.72	3.99
CY7C1338B-100AC	428-1091-ND	4M-Bit, 128Kx32, 3.3V Sync. Flow Through SRAM	100-TQFP	9.30	7.44	6.28
CY7C1339B-100AC	428-1092-ND	4M-Bit, 128Kx32, 3.3V Sync. Pipe SRAM	100-TQFP	9.30	7.44	6.28
CY7C1339B-133AC	428-1093-ND	4M-Bit, 128Kx32, 3.3V Sync. Pipe SRAM	100-TQFP	9.70	7.76	6.55
CY7C1345B-100AC	428-1094-ND	4M-Bit, 128Kx36, 3.3V Sync. Flow Through SRAM	100-TQFP	9.30	7.44	6.28
CY7C1345B-117AC	428-1095-ND	4M-Bit, 128Kx36, 3.3V Sync. Flow Through SRAM	100-TQFP	9.30	7.44	6.28
CY7C1347B-100AC	428-1096-ND	4M-Bit, 128Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	8.75	7.88	6.99
CY7C1347B-133AC	428-1097-ND	4M-Bit, 128Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	9.16	8.25	7.32
CY7C1350B-100AC	428-1098-ND	4M-Bit, 128Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	9.30	7.44	6.28
CY7C1350B-133AC	428-1099-ND	4M-Bit, 128Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	9.80	7.84	6.62
CY7C1350B-143AC	428-1100-ND	4M-Bit, 128Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	9.75	8.78	7.79
CY7C1351B-100AC	428-1469-ND	4M-Bit, 128Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	9.30	7.44	6.28
CY7C1352B-100AC	428-1102-ND	4M-Bit, 256Kx18, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	9.30	7.44	6.28
CY7C1352B-133AC	428-1103-ND	4M-Bit, 256Kx18, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	9.80	7.84	6.62
CY7C1353B-100AC	428-1104-ND	4M-Bit, 256Kx18, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	9.80	7.84	6.62
CY7C1354A-100AC	428-1105-ND	8M-Bit, 256Kx36, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	15.23	14.21	13.20
CY7C1354A-133AC	428-1106-ND	8M-Bit, 256Kx36, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	15.49	13.95	12.37
CY7C1354A-133BGC	428-1107-ND	8M-Bit, 256Kx36, 3.3V NoBL™ Sync. Pipe SRAM	119-BGA	18.45	17.22	15.99
CY7C1354A-166BGC	428-1108-ND	8M-Bit, 256Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	119-BGA	17.03	15.89	14.76
CY7C1355A-100AC	428-1470-ND	8M-Bit, 256Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	17.25	16.10	14.95
CY7C1355A-117AC	428-1471-ND	8M-Bit, 256Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	17.85	16.66	15.47
CY7C1356A-133AC	428-1111-ND	8M-Bit, 512Kx18, 2.5V NoBL™ Sync. Pipe SRAM	100-TQFP	13.99	12.60	11.18
CY7C1356A-166AC	428-1112-ND	8M-Bit, 512Kx18, 2.5V NoBL™ Sync. Pipe SRAM	100-TQFP	14.41	12.98	11.51
CY7C1360A-150AC	428-1113-ND	8M-Bit, 256Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	14.96	13.47	11.95
CY7C1360A-150AJC	428-1114-ND	8M-Bit, 256Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	14.99	13.50	11.97
CY7C1360A-150BGC	428-1115-ND	8M-Bit, 256Kx36, 3.3V Sync. Pipe SRAM	119-BGA	16.20	15.12	14.04
CY7C1360A-166AJC	428-1116-ND	8M-Bit, 256Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	17.48	16.31	15.15
CY7C1361A-100AC	428-1117-ND	8M-Bit, 256Kx36, 3.3V Sync. Flow Through SRAM	100-TQFP	14.96	13.47	11.95
CY7C1361A-100BGC	428-1118-ND	8M-Bit, 256Kx36, 3.3V Sync. Flow Through SRAM	119-BGA	16.20	15.12	14.04
CY7C1361A-117AC	428-1119-ND	8M-Bit, 256Kx36, 3.3V Sync. Flow Through SRAM	100-TQFP	15.49	13.95	12.37
CY7C1361A-117AJC	428-1120-ND	8M-Bit, 256Kx36, 3.3V Sync. Flow Through SRAM	100-TQFP	15.49	13.95	12.37
CY7C1362A-150AC	428-1121-ND	8M-Bit, 512Kx18, 3.3V Sync. Pipe SRAM	100-TQFP	15.23	14.21	13.20
CY7C1362A-150BGC	428-1122-ND	8M-Bit, 512Kx18, 3.3V Sync. Pipe SRAM	119-BGA	16.20	15.12	14.04
CY7C1362A-166AC	428-1123-ND	8M-Bit, 512Kx18, 3.3V Sync. Pipe SRAM	100-TQFP	15.45	14.42	13.39
CY7C1362A-166AJC	428-1124-ND	8M-Bit, 512Kx18, 3.3V Sync. Pipe SRAM	100-TQFP	15.24	13.73	12.17
CY7C1363A-100AC	428-1125-ND	8M-Bit, 512Kx18, 3.3V Sync. Flow Through SRAM	100-TQFP	14.99	13.50	11.97
CY7C1363A-100AJC	428-1126-ND	8M-Bit, 512Kx18, 3.3V Sync. Flow Through SRAM	100-TQFP	15.75	14.70	13.65
CY7C1363A-117AC	428-1127-ND	8M-Bit, 512Kx18, 3.3V Sync. Flow Through SRAM	100-TQFP	15.58	14.03	12.44
CY7C1367A-150AJC	428-1128-ND	8M-Bit, 512Kx18, 3.3V Sync. Pipe SRAM	100-TQFP	14.99	13.50	11.97
CY7C1370B-133AC	428-1129-ND	18M-Bit, 512Kx36, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	34.77	32.46	30.14
CY7C1370B-133BGC	428-1130-ND	18M-Bit, 512Kx36, 3.3V NoBL™ Sync. Pipe SRAM	119-BGA	37.50	35.00	32.50
CY7C1370BV25-133AC	428-1131-ND	18M-Bit, 512Kx36, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	34.77	32.46	30.14
CY7C1370BV25-150AC	428-1132-ND	18M-Bit, 512Kx36, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	35.33	32.97	30.62
CY7C1370BV25-167AC	428-1133-ND	18M-Bit, 512Kx36, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	35.93	33.53	31.14
CY7C1371B-100AC	428-1134-ND	18M-Bit, 512Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	35.33	32.97	30.62
CY7C1372BV25-167AC	428-1136-ND	18M-Bit, 1024Kx18, 2.5V NoBL™ Sync. Pipe SRAM	100-TQFP	37.80	35.28	32.76
CY7C1380B-133AC	428-1440-ND	18M-Bit, 512Kx36, 3.3V Sync. SRAM	100-TQFP	34.80	32.48	30.16
CY7C1380B-150AC	428-1441-ND	18M-Bit, 512Kx36, 3.3V Sync. SRAM	100-TQFP	37.20	34.72	32.24
CY7C1380B-167AC	428-1442-ND	18M-Bit, 513Kx36, 3.3V Sync. SRAM	100-TQFP	35.93	33.53	31.14
CY7C1381B-100AC	428-1137-ND	18M-Bit, 512Kx36, 3.3V Standard Sync. Flow Through SRAM	100-TQFP	35.33	32.97	30.62
CY7C1382B-133AC	428-1138-ND	18M-Bit, 512Kx36, 3.3V Standard Sync. Pipe SRAM	100-TQFP	34.80	32.48	30.16
CY7C1383B-100AC	428-1139-ND	18M-Bit, 1024Kx18, 3.3V Standard Sync. Flow Through SRAM	100-TQFP	35.33	32.97	30.62
CY7C1386B-167AC	428-1140-ND	18M-Bit, 512Kx36, 3.3V Standard Sync. Pipe SRAM	100-TQFP	35.93	33.53	31.14

Dual Port SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C006A-20AC	428-1141-ND	128K-Bit, 16Kx8, Async. Power Down, 20ns	80-TQFP	21.00	19.60	18.20
CY7C006A-20JC	428-1142-ND	128K-Bit, 16Kx8, Async. Power Down, 20ns	68-PLCC	21.00	19.60	18.20
CY7C006AV-20AC	428-1143-ND	128K-Bit, 16Kx8, 3.3V Async. Power Down, 20ns	80-TQFP	21.00	19.60	18.20
CY7C007A-20AC	428-1144-ND	256K-Bit, 32Kx8, Async. Power Down, 20ns	80-TQFP	27.00	25.20	23.40
CY7C007A-20JC	428-1145-ND	256K-Bit, 32Kx8, Async. Power Down, 20ns	68-PLCC	27.00	25.20	23.40
CY7C008-20AC	428-1146-ND	512K-Bit, 64Kx8, Async. Power Down, 20ns	100-TQFP	37.95	35.42	32.89
CY7C008V-15AC	428-1147-ND	512K-Bit, 64Kx8, 3.3V Async. Power Down, 15ns	100-TQFP	49.34	46.05	42.76
CY7C009-15AC	428-1148-ND	1M-Bit, 128Kx8, Async. Power Down, 15ns	100-TQFP	72.57	67.74	62.90
CY7C009V-15AC	428-1149-ND	1M-Bit, 128Kx8, 3.3V Async. Power Down, 15ns	100-TQFP	72.54	67.71	62.87
CY7C016A-15AC	428-1150-ND	128K-Bit, 16Kx9, Async. Power Down, 15ns	100-TQFP	27.30	25.48	23.66
CY7C018-15AC	428-1151-ND	512K-Bit, 64Kx9, Async. Power Down, 15ns	100-TQFP	64.14	59.87	55.59
CY7C019-15AC	428-1152-ND	1M-Bit, 128Kx9, Async. Power Down, 15ns	100-TQFP	72.29	67.47	62.65
CY7C019V-15AC	428-1153-ND	1M-Bit, 128Kx9, 3.3V Async. Power Down, 15ns	100-TQFP	72.29	67.47	62.65
CY7C024-15AC	428-1154-ND	64K-Bit, 4Kx16, 3.3V Async. Power Down, 15ns	100-TQFP	22.28	20.79	19.31
CY7C024AV-25AC	428-1155-ND	64K-Bit, 4Kx16, 3.3V Async. Power Down, 25ns	100-TQFP	16.49	14.85	13.17
CY7C025-15AC	428-1157-ND	128K-Bit, 8Kx16, Async. Power Down Interrupt, Busy, 15ns	100-TQFP	28.43	26.53	24.64
CY7C025-25JC	428-1158-ND	128K-Bit, 8Kx16, Async. Power Down Interrupt, Busy, 25ns	84-PLCC	18.98	17.71	16.45
CY7C025AV-20AC	428-1161-ND	128K-Bit, 8Kx16, 3.3V Async. Power Down Interrupt, Busy, 20ns	100-TQFP	25.23	23.55	21.87
CY7C026A-20AC	428-1162-ND	256K-Bit, 16Kx16, Async. Power Down, 20ns	100-TQFP	27.08	25.27	23.47
CY7C027-20AC	428-1163-ND	512K-Bit, 32Kx16, Async. Power Down, 20ns	100-TQFP	37.95	35.42	32.89
CY7C027V-15AC	428-1164-ND	512K-Bit, 32Kx16, 3.3V Async. Power Down, 15ns	100-TQFP	49.34	46.05	42.76
CY7C028-15AC	428-1443-ND	SRAM 64Kx16, Async. Power Down, 12ns	100-TQFP	72.29	67.47	62.65
CY7C028-20AC	428-1444-ND	SRAM 64Kx16, Async. Power Down, 15ns	100-TQFP	55.61	51.90	48.20
CY7C028V-15AC	428-1165-ND	1M-Bit, 64Kx16, 3.3V Async. Power Down, 15ns	100-TQFP	72.29	67.47	62.65
CY7C036A-15AC	428-1166-ND	256K-Bit, 16Kx18, Async. Power Down, 15ns	100-TQFP	50.75	47.37	43.98
CY7C036AV-20AC	428-1167-ND	256K-Bit, 16Kx18, 3.3V Async. Power Down, 20ns	100-TQFP	50.75	47.37	43.98
CY7C037-15AC	428-1168-ND	512K-Bit, 32Kx18, Async. Power Down, 15ns	100-TQFP	64.14	59.87	55.59
CY7C037V-15AC	428-1169-ND	512K-Bit, 32Kx18, 3.3V Async. Power Down, 15ns	100-TQFP	74.01	69.08	64.15
CY7C038V-15AC	428-1170-ND	1M-Bit, 64Kx18, 3.3V Async. Power Down, 15ns	100-TQFP	83.40	77.84	72.28
CY7C056V-15AC	428-1172-ND	512K-Bit, 16Kx36, 3.3V Async. Power Down FLEx36 15ns	144-TQFP	70.31	65.62	60.94
CY7C057V-12AC	428-1173-ND	1M-Bit, 32Kx36, 3.3V Async. Power Down FLEx36 12ns	144-TQFP	114.90	107.24	99.58

(Continued)

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SRAM *(Continued)*

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C057V-15AC	428-1174-ND	1M-Bit, 32Kx36, 3.3V Async. Power Down FLEx36 15ns	144-TQFP	95.75	89.37	82.98
CY7C130-55PC	428-1191-ND	8K-Bit, 1Kx8, Async. Power Down Master 55ns	48-PDip	6.60	5.28	4.46
CY7C131-15JC	428-1192-ND	8K-Bit, 1Kx8, Async. Power Down Master 15ns	52-PLCC	10.33	9.30	8.25
CY7C131-25JC	428-1193-ND	8K-Bit, 1Kx8, Async. Power Down Master 25ns	52-PLCC	9.50	7.60	6.42
CY7C131-25NC	428-1194-ND	8K-Bit, 1Kx8, Async. Power Down Master 25ns	52-TQFP	9.50	7.60	6.42
CY7C131-35JC	428-1195-ND	8K-Bit, 1Kx8, Async. Power Down Master 25ns	52-PLCC	8.10	6.48	5.47
CY7C131-55JC	428-1196-ND	8K-Bit, 1Kx8, Async. Power Down Master 55ns	52-PLCC	6.60	5.28	4.46
CY7C132-35PC	428-1197-ND	16K-Bit, 2Kx8, Async. Power Down Master 35ns	48-PDip	8.80	7.04	5.94
CY7C132-55PC	428-1198-ND	16K-Bit, 2Kx8, Async. Power Down Master 55ns	48-PDip	7.20	5.76	4.86
CY7C136-55JC	428-1199-ND	16K-Bit, 2Kx8, Async. Power Down Master	52-PLCC	7.20	5.76	4.86
CY7C138-25JC	428-1445-ND	32K-Bit, 4Kx8, Async. Master/Slave Power Down, 25ns	68-PLCC	28.73	26.81	24.90
CY7C142-55PC	428-1201-ND	16K-Bit, 2Kx8, Async. Power Down, 55ns Slave	48-PDip	7.20	5.76	4.86
CY7C146-25JC	428-1202-ND	16K-Bit, 2Kx8, Async. Power Down, 25ns Slave	52-PLCC	10.00	9.00	7.98
CY7C0241AV-25AC	428-1156-ND	64K-Bit, 4Kx18, 3.3V Async. Power Down, 25ns	100-TQFP	16.50	15.40	14.30
CY7C0251-15AC	428-1159-ND	128K-Bit, 8Kx18, Async. Power Down, 15ns	100-TQFP	25.23	23.55	21.87
CY7C0251AV-25AC	428-1160-ND	128K-Bit, 8Kx18, 3.3V Async. Power Down, 25ns	100-TQFP	21.02	19.62	18.22
CY7C0430BV-100BGC	428-1171-ND	64x18 3.3V QuadPort™ Switch DSE	272-BGA	216.00	201.60	187.20
CY7C09089V-12AC	428-1175-ND	512K-Bit, 64Kx8, 3.3V Sync. 3-Mode Power Down, 15ns	100-TQFP	37.95	35.42	32.89
CY7C09099V-12AC	428-1176-ND	1M-Bit, 128Kx8, 3.3V Sync. 3-Mode Power Down, 12ns	100-TQFP	55.61	51.90	48.20
CY7C09159AV-12AC	428-1177-ND	64K-Bit, 8Kx9, 3.3V Sync. 3-Mode Power Down, 12ns	100-TQFP	16.43	14.85	13.17
CY7C09179V-12AC	428-1178-ND	256K-Bit, 32Kx9, 3.3V Sync. 3-Mode Power Down, 12ns	100-TQFP	39.05	36.45	33.84
CY7C09189-9AC	428-1180-ND	512K-Bit, 64Kx9, Sync. 3-Mode Power Down, 9ns	100-TQFP	64.14	59.87	55.59
CY7C09189-12AC	428-1179-ND	512K-Bit, 64Kx9, Sync. 3-Mode Power Down, 12ns	100-TQFP	49.34	46.05	42.76
CY7C09199-9AC	428-1181-ND	1M-Bit, 128Kx9, Sync. 3-Mode Power Down, 9ns	100-TQFP	72.29	67.47	62.65
CY7C09269A-12AC	428-1182-ND	256K-Bit, 16Kx16, Sync. 3-Mode Power Down, 12ns	100-TQFP	30.03	28.03	26.03
CY7C09269V-12AC	428-1183-ND	256K-Bit, 16Kx16, 3.3V Sync. 3-Mode Power Down, 12ns	100-TQFP	30.03	28.03	26.03
CY7C09279-12AC	428-1184-ND	512K-Bit, 32Kx16, Sync. 3-Mode Power Down, 12ns	100-TQFP	37.95	35.42	32.89
CY7C09279V-12AC	428-1185-ND	512K-Bit, 32Kx16, 3.3V Sync. 3-Mode Power Down, 12ns	100-TQFP	37.95	35.42	32.89
CY7C09289-12AC	428-1186-ND	1M-Bit, 64Kx16, Sync. 3-Mode Power Down, 12ns	100-TQFP	55.61	51.90	48.20
CY7C09289V-12AC	428-1187-ND	1M-Bit, 64Kx16, 3.3V Sync. 3-Mode Power Down, 12ns	100-TQFP	55.61	51.90	48.20
CY7C09349A-12AC	428-1446-ND	64K-Bit, 4Kx18, Sync., Power Down, 12ns	100-TQFP	16.50	15.40	14.30
CY7C09349AV-12AC	428-1447-ND	64K-Bit, 4Kx18, 3.3V Sync. Pwr. Down, 12ns	100-TQFP	16.50	15.40	14.30
CY7C09369V-12AC	428-1448-ND	256K-Bit, 16Kx18, 3.3V Sync. Power Down, 12ns	100-TQFP	39.05	36.45	33.84
CY7C09379V-12AC	428-1450-ND	512K-Bit, 32Kx18, 3.3V Sync. Power Down, 12ns	100-TQFP	49.34	46.05	42.76
CY7C09389V-12AC	428-1451-ND	1M-Bit, 64Kx18, 3.3V Sync. Pwr. Down, 12ns	100-TQFP	55.61	51.90	48.20
CY7C09449PV-AC	428-1188-ND	128K-Bit, 4Kx32, 3.3V Sync. SRAM PCI Cont.	160-TQFP	31.32	29.24	27.15
CY7C09569V-100AC	428-1189-ND	512K-Bit, 16Kx36, 3.3V Sync. 3-Mode FLEx36 Power Down 100MHz	144-TQFP	84.36	78.74	73.12
CY7C09579V-100AC	428-1190-ND	1M-Bit, 32Kx36, 3.3V Sync. 3-Mode FLEx36 Power Down 100MHz	144-TQFP	114.92	107.26	99.60

Low Power SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY6264-70SNC	428-1085-ND	64K-Bit, 8Kx8, Power Down SRAM	28-SOIC	3.42	2.74	2.13
CY62128BLL-70SC	428-1071-ND	1M-Bit, 128Kx8, LP, Pwr. Down SRAM	Wide 32-SOIC	3.29	2.63	2.05
CY62128BLL-70ZC	428-1072-ND	1M-Bit, 128Kx8, LP, Pwr. Down SRAM	32-TSOP	3.29	2.63	2.05
CY62128VLL-70SC	428-1073-ND	1M-Bit, 128Kx8, 3.0V LP, Power Down SRAM	Wide 32-SOIC	3.29	2.63	2.05
CY62128VLL-70ZC	428-1074-ND	1M-Bit, 128Kx8, 3.0V LP, Power Down SRAM	32-TSOP	3.85	3.08	2.40
CY62148BLL-70SC	428-1075-ND	4M-Bit, 512Kx8, LP, Pwr. Down SRAM	Wide 32-SOIC	8.82	7.06	5.96
CY62148BLL-70ZI	428-1493-ND	4M-Bit, 512Kx8, LP, Pwr. Down SRAM *NEW!*	32-TSOP	7.50	6.00	5.07
CY62256-70SNC	428-1077-ND	256K-Bit, 32Kx8, Power Down SRAM	28-SOIC	2.59	2.07	1.61
CY62256L-70PC	428-1078-ND	256K-Bit, 32Kx8, LP, Power Down SRAM	28-Dip	3.13	2.51	1.95
CY62256L-70SNC	428-1079-ND	256K-Bit, 32Kx8, LP, Power Down SRAM	28-SOIC	2.59	2.07	1.61
CY62256LL-70PC	428-1080-ND	256K-Bit, 32Kx8, LP, Power Down SRAM	28-Dip	3.13	2.51	1.95
CY62256LL-70SNC	428-1081-ND	256K-Bit, 32Kx8, LP, Power Down SRAM	28-SOIC	2.59	2.07	1.61
CY62256LL-70ZC	428-1082-ND	256K-Bit, 32Kx8, LP, Power Down SRAM	28-TSOP	2.59	2.07	1.61
CY62256VLL-70SNC	428-1083-ND	256K-Bit, 32Kx8, 3.0V LP, Pwr. Down SRAM	28-SOIC	2.59	2.07	1.61
CY62256VLL-70ZC	428-1084-ND	256K-Bit, 32Kx8, 3.0V LP, Pwr. Down SRAM	28-TSOP	2.32	1.86	1.45

FIFO

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C419-10JC	428-1203-ND	256x9, Async. Parallel-Cascade FIFO, 10ns	32-PLCC	6.48	5.19	4.38
CY7C421-15JC	428-1209-ND	512x9, Async. Parallel-Cascade FIFO, 15ns	32-PLCC	6.00	4.80	4.05
CY7C425-10JC	428-1227-ND	1Kx9, Async. Parallel-Cascade FIFO, 10ns	32-PLCC	9.36	7.49	6.32
CY7C429-10JC	428-1243-ND	2Kx9, Async. Parallel-Cascade FIFO, 10ns	32-PLCC	10.38	9.35	8.29
CY7C433-10JC	428-1246-ND	4Kx9, Async. Parallel-Cascade FIFO, 10ns	32-PLCC	11.30	10.17	9.02
CY7C441-14JC	428-1247-ND	512x9, Clocked FIFO, 14ns	32-PLCC	22.05	20.58	19.11
CY7C460A-10JC	428-1251-ND	8Kx9, Async. Cascade FIFO, 10ns	32-PLCC	16.64	15.53	14.42
CY7C462A-10JC	428-1252-ND	16Kx9, Async. Cascade FIFO, 10ns	32-PLCC	23.33	21.77	20.22
CY7C464A-10JC	428-1253-ND	32Kx9, Async. Cascade FIFO, 10ns	32-PLCC	35.78	33.39	31.01
CY7C464A-15JC	428-1254-ND	32Kx9, Async. Cascade FIFO, 15ns	32-PLCC	27.38	25.55	23.73
CY7C466A-10JC	428-1255-ND	64Kx9, Async. Cascade FIFO, 10ns	32-PLCC	43.35	40.46	37.57
CY7C4201-10AC	428-1204-ND	256x9, Sync. FIFO, 10ns	32-TQFP	12.89	11.61	10.30
CY7C4201-10JC	428-1205-ND	256x9, Sync. FIFO, 10ns	32-PLCC	12.89	11.61	10.30
CY7C4201V-15AC	428-1206-ND	256x9, 3.3V Sync. FIFO, 15ns	32-TQFP	10.20	9.18	8.14
CY7C4205-10AC	428-1207-ND	256x18, Sync. FIFO, 10ns	64-TQFP	15.83	14.77	13.72
CY7C4205V-15ASC	428-1208-ND	256x18, 3.3V Sync. FIFO, 15ns	64-STQFP	15.69	14.13	12.53
CY7C4211-10JC	428-1210-ND	512x9, Sync. FIFO, 10ns	32-PLCC	13.68	12.32	10.92
CY7C4211-15AC	428-1211-ND	512x9, Sync. FIFO, 10ns	32-TQFP	10.83	9.75	8.65
CY7C4211V-15AC	428-1212-ND	512x9, 3.3V Sync. FIFO, 15ns	32-TQFP	10.83	9.75	8.65
CY7C4215-10JC	428-1213-ND	512x18, Sync. FIFO, 10ns	68-PLCC	17.93	16.73	15.54
CY7C4215V-15ASC	428-1214-ND	512x18, 3.3V Sync. FIFO, 15ns	64-STQFP	15.96	14.90	13.84
CY7C4221-10JC	428-1215-ND	1Kx9, Sync. FIFO, 10ns	32-PLCC	15.21	14.20	13.19
CY7C4221V-15AC	428-1216-ND	1Kx9, 3.3V Sync. FIFO, 15ns	32-TQFP	13.38	12.05	10.68
CY7C4225-15AC	428-1217-ND	1Kx18, Sync. FIFO, 15ns	64-TQFP	16.71	15.60	14.49
CY7C4225V-15ASC	428-1218-ND	1Kx18, 3.3V Sync. FIFO, 15ns	64-STQFP	16.71	15.60	14.49
CY7C4231-10JC	428-1219-ND	2Kx9, Sync. FIFO, 10ns	32-PLCC	15.60	14.56	13.52
CY7C4231V-15JC	428-1220-ND	2Kx9, 3.3V Sync. FIFO, 15ns	32-PLCC	15.29	13.77	12.21
CY7C4235-15AC	428-1221-ND	2Kx18, Sync. FIFO, 15ns	64-TQFP	19.77	18.46	17.14
CY7C4235V-15ASC	428-1222-ND	2Kx18, 3.3V Sync. FIFO, 15ns	64-STQFP	19.77	18.46	17.14
CY7C4241-15JC	428-1223-ND	4Kx9, Sync. FIFO, 10ns	32-PLCC	16.32	15.24	14.15
CY7C4241V-15JC	428-1224-ND	4Kx9, 3.3V Sync. FIFO, 15ns	32-PLCC	16.32	15.24	14.15
CY7C4245-15ASC	428-1225-ND	4Kx18, Sync. FIFO, 15ns	64-STQFP	22.47	20.98	19.48
CY7C4245V-15ASC	428-1226-ND	4Kx18, 3.3V Sync. FIFO, 15ns	64-STQFP	22.47	20.98	19.48
CY7C4251-15AC	428-1228-ND	8Kx9, Sync. FIFO, 10ns.	32-TQFP	18.53	17.29	16.06
CY7C4251V-15AC	428-1229-ND	8Kx9, 3.3V Sync. FIFO, 15ns	32-TQFP	18.53	17.29	16.06
CY7C4255-10AC	428-1230-ND	8Kx18, Deep Sync. FIFO, 10ns	64-TQFP	45.60	42.56	39.52
CY7C4255V-10ASC	428-1231-ND	8Kx18, 3.3V Deep Sync. FIFO, 10ns	64-STQFP	45.60	42.56	39.52
CY7C4261-10JC	428-1232-ND	16Kx9, Deep Sync. FIFO, 10ns	32-PLCC	47.10	43.96	40.82
CY7C4261-15JC	428-1233-ND	16Kx9, Deep Sync. FIFO, 15ns	32-PLCC	37.65	35.14	32.63
CY7C4261V-10JC	428-1234-ND	16Kx9, 3.3V Deep Sync. FIFO, 10ns.	32-PLCC	47.10	43.96	40.82
CY7C4265-10AC	428-1235-ND	16Kx18, Deep Sync. FIFO, 10ns	64-TQFP	58.35	54.46	50.57
CY7C4265V-10ASC	428-1236-ND	16Kx18, 3.3V Deep Sync. FIFO, 10ns	64-STQFP	58.35	54.46	50.57
CY7C4271-10JC	428-1237-ND	32Kx9, Deep Sync. FIFO, 10ns	32-PLCC	60.48	56.45	52.42
CY7C4271V-10JC	428-1238-ND	32Kx9, 3.3V Deep Sync. FIFO, 10ns.	32-PLCC	60.48	56.45	52.42
CY7C4275-10ASC	428-1239-ND	32Kx18, Deep Sync. FIFO, 10ns	64-STQFP	85.65	79.94	74.23
CY7C4275V-10ASC	428-1240-ND	32Kx18, 3.3V Deep Sync. FIFO, 10ns	64-STQFP	85.65	79.94	74.23
CY7C4285-10ASC	428-1241-ND	64Kx18, Deep Sync. FIFO, 10ns	64-STQFP	113.58	106.01	98.44
CY7C4285V-10ASC	428-1242-ND	64Kx18, 3.3V Deep Sync. FIFO, 10ns	64-STQFP	113.58	106.01	98.44
CY7C4291-10JC	428-1244-ND	128Kx9, Deep Sync. FIFO, 10ns.	32-PLCC	141.98	132.51	123.05
CY7C4291V-10JC	428-1245-ND	128Kx9, 3.3V Deep Sync. FIFO, 10ns	32-PLCC	135.00	126.00	117.00
CY7C4421-10AC	428-1248-ND	64x9, Sync. FIFO, 10ns.	32-TQFP	14.36	12.93	11.47
CY7C4425-10AC	428-1249-ND	64x18, Sync. FIFO, 10ns	64-TQFP	16.65	15.54	14.43
CY7C4425V-15ASC	428-1250-ND	64x18, 3.3V Sync. FIFO, 15ns	64-STQFP	14.81	13.34	11.83
CY7C4811-10AC	428-1256-ND	512x9x2, Double Sync. FIFO, 10ns	64-TQFP	23.19	21.65	20.10
CY7C4821-10AC	428-1257-ND	1Kx9x2, Double Sync. FIFO, 10ns	64-TQFP	25.53	23.83	22.13
CY7C4831-10AC	428-1258-ND	2Kx9x2, Double Sync. FIFO, 10ns	64-TQFP	29.07	27.14	25.20
CY7C4841-10AC	428-1259-ND	4Kx9x2, Double Sync. FIFO, 10ns	64-TQFP	25.37	23.68	21.99
CY7C4851-10AC	428-1260-ND	8Kx9x2, Double Sync. FIFO, 10ns	64-TQFP	38.45	35.89	33.32

BUFFERS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY2305SC-1	428-1346-ND	Zero Delay Buffer 3.3V Int. Feedback	8-SOIC	2.63	2.11	1.64
CY2305SC-1H	428-1348-ND	Zero Delay Buffer 3.3V Int. Feedback	8-SOIC	2.63	2.11	1.64
CY2305SI-1	428-1347-ND	Zero Delay Buffer 3.3V Int. Feedback	8-SOIC	4.50	3.60	2.80
CY2305SI-1H	428-1349-ND	Zero Delay Buffer 3.3V Int. Feedback	8-SOIC	4.50	3.60	2.80
CY2308SC-1	428-1350-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	4.12	3.30	2.57
CY2308SC-2	428-1356-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	4.12	3.30	2.57
CY2308SC-3	428-1358-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	4.12	3.30	2.57
CY2308SC-4	428-1360-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	4.12	3.30	2.57
CY2308SC-1H	428-1352-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	4.12	3.30	2.57
CY2308SC-5H	428-1362-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	4.12	3.30	2.57
CY2308SI-1	428-1351-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	8.34	6.68	5.63
CY2308SI-2	428-1357-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	8.34	6.68	5.63
CY2308SI-3	428-1359-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	8.34	6.68	5.63
CY2308SI-4	428-1361-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	8.34	6.68	5.63
CY2308SI-1H	428-1353-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-SOIC	8.34	6.68	5.63
CY2308ZC-1H	428-1354-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-TSSOP	4.50	3.60	2.80
CY2308ZC-5H	428-1363-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-TSSOP	4.50	3.60	2.80
CY2308ZI-1H	428-1355-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-TSSOP	4.50	3.60	2.80
CY2308ZI-5H	428-1364-ND	Zero Delay Buffer 3.3V Ext. Feedback	16-TSSOP	4.50	3.60	2.80
CY2309SC-1	428-1365-ND	Zero Delay Buffer 3.3V Int. Feedback	16-SOIC	3.38	2.70	2.10
CY2309SC-1H	428-1367-ND	Zero Delay Buffer 3.3V Int. Feedback	16-SOIC	3.38	2.70	2.10
CY2309SI-1	428-1366-ND	Zero Delay Buffer 3.3V Int. Feedback	16-SOIC	7.00	5.60	4.73
CY2309SI-1H	428-1368-ND	Zero Delay Buffer 3.3V Int. Feedback	16-SOIC	7.00	5.60	4.73
CY2309ZC-1H	428-1369-ND	Zero Delay Buffer 3.3V Int. Feedback	16-TSSOP	4.88	3.91	3.04
CY2309ZI-1H	428-1370-ND	Zero Delay Buffer 3.3V Int. Feedback	16-TSSOP	4.88	3.91	3.04
CY7B9910-2SC	428-1371-ND	Clock Buffer TTL Out	24-SOIC	11.42	10.32	9.16
CY7B9910-5SC	428-1372-ND	Clock Buffer TTL Out	24-SOIC	8.95	8.06	7.15
CY7B9910-7SC	428-1373-ND	Clock Buffer TTL Out	24-SOIC	9.44	7.56	6.38
CY7B991-2JC	428-1374-ND	Clock Buffer TTL Out	32-PLCC	16.59	14.94	13.25
CY7B991-5JC	428-1375-ND	Clock Buffer TTL Out	32-PLCC	13.28	11.96	10.61
CY7B991-7JC	428-1376-ND	Clock Buffer TTL Out	32-PLCC	11.20	10.08	8.94
CY7B992-2JC	428-1379-ND	Clock Buffer CMOS Out	32-PLCC	16.59	14.94	13.25
CY7B992-5JC	428-1380-ND	Clock Buffer CMOS Out	32-PLCC	13.28	11.96	10.61
CY7B992-7JC	428-1381-ND	Clock Buffer CMOS Out	32-PLCC	11.20	10.08	8.94
CY7B991V-2JC	428-1382-ND	Clock Buffer 3.3V.	32-PLCC	16.59	14.94	13.25
CY7B991V-5JC	428-1383-ND	Clock Buffer 3.3V.	32-PLCC	13.28	11.96	10.61
CY7B991V-7JC	428-1384-ND	Clock Buffer 3.3V.	32-PLCC	11.20	10.08	8.94
CY7B993V-2AC	428-1385-ND	Clock Buffer 3.3V	100-TQFP	32.25	30.10	27.95
CY7B9920-2SC	428-1377-ND	Clock Buffer CMOS Out	24-SOIC	11.46	10.32	9.16
CY7B9920-5SC	428-1378-ND	Clock Buffer CMOS Out	24-SOIC	8.95	8.06	7.15
W40S11-02H	428-1401-ND	Clock Buffer 3.3V 10 Out DIMM SDRAM	28-SSOP	4.66	3.73	2.90
W256H	428-1399-ND	Clock Buffer 3.3V 12 Out DIMM 3SDRAM	28-SSOP	8.00	6.40	5.40

CLOCK GENERATORS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY2291F	428-1392-ND	Clock Gen. Sync. Field Prog. 3PLL 3.3V	20-SOIC	4.82	3.86	3.00
CY2292F	428-1393-ND	Clock Gen. Sync. Field Prog. 3PLL 3.3V	16-SOIC	4.46	3.57	2.78
CY22050FC	428-1386-ND	Clock Gen. Sync. Flash 1PLL 3.3V	16-TSSOP	2.97	2.38	1.85
CY22150FC	428-1387-ND	Clock Gen. Sync. Serial/Flash 1PLL 3.3V	16-TSSOP	3.51	2.81	2.19
CY22381FC	428-1388-ND	Clock Gen. Sync. Flash Prog. 3PLL 3.3V	8-SOIC	4.79	3.84	2.99

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CLOCK GENERATORS *(Continued)*

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY22392FC	428-1389-ND	Clock Gen. Sync. Flash Prog. 3PLL 3.3V	16-TSSOP	4.91	3.93	3.06
CY22393FC	428-1390-ND	Clock Gen. Sync. Serial/Flash 3PLL 3.3V	16-TSSOP	5.14	4.12	3.47
CY22394FC	428-1391-ND	Clock Gen. Sync. Serial/Flash 3PLL 3.3V	16-TSSOP	5.14	4.12	3.47
W40S01-04H	428-1400-ND	Spread Spectrum Clock Generator SDRAM	8-SOIC	4.86	3.89	3.03
W42C31-03G	428-1397-ND	Freq. Gen. Spectrum EMI Reduction SSCG	8-SOIC	3.38	2.70	2.10
W48C111-16H	428-1402-ND	Clock Gen. Freq Mod. SSCG, Celeron, PIII	28-SSOP	7.70	6.16	5.20
W180-01G	428-1394-ND	Clock Gen. EMI Reduction 3.3V-5.0V SSCG	8-SOIC	3.20	2.56	1.99
W181-01G	428-1395-ND	Clock Gen. EMI Reduction 3.3V-5.0V SSCG	8-SOIC	3.51	2.81	2.19
W181-02G	428-1396-ND	Clock Gen. EMI Reduction 3.3V-5.0V SSCG	8-SOIC	3.51	2.81	2.19
W134MH	428-1474-ND	Clock Gen. Direct Rambus™ 3.3V	24-SSOP	5.18	4.14	3.22
W134SH	428-1475-ND	Clock Gen. Direct Rambus™ 3.3V	24-SSOP	5.18	4.14	3.22
W234X	428-1398-ND	Clock Gen. Direct Rambus™ 3.3V Dual	28-TSSOP	10.66	9.60	8.52

SERIAL EEPROMs

2-Wire Serial Interface EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT24C01-10PI-1.8-ND	1K (128x8) Serial EEPROM, Non-Cascadable, 1.8V to 5.5V	8-Dip	1.05	.99	.85
AT24C01-10PI-2.7-ND	1K (128x8) Serial EEPROM, Non-Cascadable, 2.7V	8-Dip	.70	.46	.38
AT24C01-10SI-1.8-ND	1K (128x8) Serial EEPROM, Non-Cascadable, 1.8V to 5.5V	8-SOIC	1.14	1.06	.92
AT24C01-10SC-2.7-ND	1K (128x8) Serial EEPROM, Non-Cascadable, 2.7V	8-SOIC	.83	.44	.37
AT24C01-10SI-2.7-ND	1K (128x8) Serial EEPROM, Non-Cascadable, 2.7V	8-SOIC	.70	.46	.38
AT24C01-10SI-ND	1K (128x8) Serial EEPROM, Non-Cascadable, 5V	8-SOIC	.86	.46	.38
AT24C01A-10PI-1.8-ND	1K (128x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-Dip	1.05	.99	.85
AT24C01A-10PC-2.7-ND	1K (128x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-Dip	.79	.42	.35
AT24C01A-10PI-2.7-ND	1K (128x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-Dip	.70	.46	.38
AT24C01A-10SI-1.8-ND	1K (128x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-SOIC	1.14	1.06	.92
AT24C01A-10SC-2.7-ND	1K (128x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-SOIC	.83	.44	.37
AT24C01A-10SI-2.7-ND	1K (128x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-SOIC	.70	.46	.38
AT24C21-10PC-2.5-ND	1K (128x8) SEEPROM, DDC1™/DDC2™ for Monitors, 2.5V	8-Dip	1.32	.74	.63
AT24C21-10PI-2.5-ND	1K (128x8) SEEPROM, DDC1™/DDC2™ for Monitors, 2.5V	8-Dip	1.43	.81	.69
AT24C21-10SI-2.5-ND	1K (128x8) SEEPROM, DDC1™/DDC2™ for Monitors, 2.5V	8-SOIC	1.43	.81	.69
AT24C02-10PI-1.8-ND	2K (256x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-Dip	1.29	1.18	1.03
AT24C02-10PC-2.7-ND	2K (256x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-Dip	.92	.49	.42
AT24C02-10PI-2.7-ND	2K (256x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-Dip	.84	.53	.45
AT24C02N-10SI-1.8-ND	2K (256x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-SOIC	1.29	1.18	1.03
AT24C02N-10SI-2.7-ND	2K (256x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-SOIC	.84	.53	.45
AT24C04-10PI-1.8-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-Dip	1.51	1.35	1.18
AT24C04-10PI-2.7-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-Dip	.98	.61	.52
AT24C04N-10SI-1.8-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-SOIC	1.51	1.35	1.18
AT24C04N-10SC-2.7-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-SOIC	1.02	.55	.47
AT24C04N-10SI-2.7-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 2.7V	8-SOIC	.98	.61	.52
AT24C08-10PI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	2.11	1.82	1.61
AT24C08-10PC-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V	8-Dip	1.32	.74	.63
AT24C08-10PI-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V	8-Dip	.84	.81	.69
AT24C08-10PI-ND	8K (1Kx8) Serial EEPROM, 5V	8-Dip	1.43	.81	.69
AT24C08N-10SI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	2.11	1.82	1.61
AT24C08N-10SI-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V	8-SOIC	.84	.81	.69
AT24C08N-10SI-ND	8K (1Kx8) Serial EEPROM, 5V	8-SOIC	1.43	.81	.69
AT24C16-10PI-1.8-ND	16K (2Kx8) Serial EEPROM, Half Data Array Write Protect, 1.8V to 5.5V	8-Dip	2.71	2.28	2.03
AT24C16N-10SI-1.8-ND	16K (2Kx8) Serial EEPROM, Half Data Array Write Protect, 1.8V to 5.5V	8-SOIC	2.71	2.28	2.03
AT24C16N-10SI-2.7-ND	16K (2Kx8) Serial EEPROM, Half Data Array Write Protect, 2.7V	8-SOIC	1.08	1.00	.87
AT24C32-10PI-1.8-ND	32K (4Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-Dip	5.33	4.21	3.80
AT24C32-10PC-2.7-ND	32K (4Kx8) Serial EEPROM, Cascadable, 2.7V	8-Dip	2.68	1.64	1.44
AT24C32-10PI-2.7-ND	32K (4Kx8) Serial EEPROM, Cascadable, 2.7V	8-Dip	2.04	1.77	1.56
AT24C32N-10SI-1.8-ND	32K (4Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-SOIC	5.61	4.41	3.99
AT24C32W-10SI-1.8-ND	32K (4Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-SOIC	5.50	4.34	3.91
AT24C32N-10SI-2.7-ND	32K (4Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC	2.00	1.74	1.53
AT24C32W-10SC-2.7-ND	32K (4Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC*	2.68	1.64	1.44
AT24C32W-10SI-2.7-ND	32K (4Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC*	2.04	1.77	1.56
AT24C32W-10SI-ND	32K (4Kx8) Serial EEPROM, Cascadable, 5V	8-SOIC*	2.78	1.70	1.50
AT24C64-10PI-1.8-ND	64K (8Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-Dip	7.14	5.50	4.99
AT24C64-10PI-2.7-ND	64K (8Kx8) Serial EEPROM, Cascadable, 2.7V	8-Dip	2.73	2.30	2.04
AT24C64N-10SI-1.8-ND	64K (8Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-SOIC	7.50	5.76	5.23
AT24C64W-10SI-1.8-ND	64K (8Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-SOIC	7.37	5.67	5.15
AT24C64N-10SI-2.7-ND	64K (8Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC	2.69	2.26	2.01
AT24C64W-10SC-2.7-ND	64K (8Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC*	3.37	2.12	1.88
AT24C64W-10SI-2.7-ND	64K (8Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC*	2.73	2.30	2.04
AT24C64W-10SC-ND	64K (8Kx8) Serial EEPROM, Cascadable, 5V	8-SOIC*	3.26	2.03	1.80
AT24C128-10PI-1.8-ND	128K (16Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-Dip	6.30	4.91	4.44
AT24C128-10PC-2.7-ND	128K (16Kx8) Serial EEPROM, Cascadable, 2.7V	8-Dip	3.07	1.90	1.68
AT24C128-10PI-2.7-ND	128K (16Kx8) Serial EEPROM, Cascadable, 2.7V	8-Dip	2.41	2.05	1.82
AT24C128N-10SI1.8-ND	128K (16Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-SOIC	5.87	4.60	4.16
AT24C128W-10SI1.8-ND	128K (16Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-SOIC	6.49	5.05	4.57
AT24C128N-10SI2.7-ND	128K (16Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC	2.32	1.98	1.76
AT24C128W-10SC2.7-ND	128K (16Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC*	3.07	1.90	1.68
AT24C128W-10SI2.7-ND	128K (16Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC*	2.41	2.05	1.82
AT24C128N-10SC-ND	128K (16Kx8) Serial EEPROM, Cascadable, 5V	8-SOIC	2.95	1.82	1.61
AT24C128N-10SI-ND	128K (16Kx8) Serial EEPROM, Cascadable, 5V	8-SOIC	3.19	1.98	1.76
AT24C128W-10SC-ND	128K (16Kx8) Serial EEPROM, Cascadable, 5V	8-SOIC*	2.95	1.82	1.61
AT24C128W-10SI-ND	128K (16Kx8) Serial EEPROM, Cascadable, 5V	8-SOIC*	3.19	1.98	1.76
AT24C256-10PI-1.8-ND	256K (32Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-Dip	9.20	6.96	6.33
AT24C256-10PI-2.7-ND	256K (32Kx8) Serial EEPROM, Cascadable, 2.7V	8-Dip	3.53	2.89	2.59
AT24C256W-10SI1.8-ND	256K (32Kx8) Serial EEPROM, Cascadable, 1.8V to 5.5V	8-SOIC	9.50	7.17	6.53
AT24C256W-10SI2.7-ND	256K (32Kx8) Serial EEPROM, Cascadable, 2.7V	8-SOIC*	3.53	2.89	2.59
AT24C256W-10SI-ND	256K (32Kx8) Serial EEPROM, Cascadable, 5V	8-SOIC*	4.31	2.78	2.48

* .200" Body Width

SPI Serial Interface EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT25010-10PC-2.7-ND	1K (128x8) Serial EEPROM, 2.7V	8-Dip	.95	.51	.43
AT25010-10PI-2.7-ND	1K (128x8) Serial EEPROM, 2.7V	8-Dip	.88	.55	.47
AT25010-10PC-ND	1K (128x8) Serial EEPROM, 5V	8-Dip	.86	.46	.38
AT25010-10PI-ND	1K (128x8) Serial EEPROM, 5V	8-Dip	.92	.49	.42
AT25010N-10SC-2.7-ND	1K (128x8) Serial EEPROM, 2.7V	8-SOIC	.95	.51	.43
AT25010N-10SI-2.7-ND	1K (128x8) Serial EEPROM, 2.7V	8-SOIC	.88	.55	.47
AT25020-10PI-2.7-ND	2K (256x8) Serial EEPROM, 2.7V	8-Dip	.71	.70	.60
AT25020-10PI-ND	2K (256x8) Serial EEPROM, 5V	8-Dip	1.14	.63	.53
AT25020N-10SI-2.7-ND	2K (256x8) Serial EEPROM, 2.7V	8-SOIC	.71	.70	.60
AT25040-10PC-2.7-ND	4K (512x8) Serial EEPROM, 2.7V	8-Dip	1.43	.81	.69
AT25040-10PI-2.7-ND	4K (512x8) Serial EEPROM, 2.7V	8-Dip	.92	.88	.76
AT25040-10PC-ND	4K (512x8) Serial EEPROM, 5V	8-Dip	1.29	.72	.61
AT25040N-10SI-2.7-ND	4K (512x8) Serial EEPROM, 2.7V	8-SOIC	.92	.88	.76
AT25080-10PI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	2.64	2.23	1.98
AT25080-10PC-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V	8-Dip	1.65	.95	.82
AT25080-10PI-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V	8-Dip	1.12	1.04	.90
AT25080-10PI-ND	8K (1Kx8) Serial EEPROM, 5V	8-Dip	1.60	.91	.79
AT25080N-10SI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	2.64	2.23	1.98
AT25080N-10SC-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V	8-SOIC	1.65	.95	.82
AT25080N-10SI-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V	8-SOIC	1.12	1.04	.90
AT25080N-10SC-ND	8K (1Kx8) Serial EEPROM, 5V	8-SOIC	1.49	.84	.73
AT25160-10PI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	3.29	2.72	2.43
AT25160-10PI-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V	8-Dip	1.38	1.25	1.09
AT25160-10PI-ND	16K (2Kx8) Serial EEPROM, 5V	8-Dip	1.89	1.11	.96
AT25160N-10SI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	3.29	2.72	2.43
AT25160N-10SC-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V	8-SOIC	1.97	1.16	1.01
AT25160N-10SI-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V	8-SOIC	1.38	1.25	1.09
AT25160N-10SI-ND	16K (2Kx8) Serial EEPROM, 5V	8-SOIC	1.89	1.11	.96
AT25320-10PC-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V	8-Dip	3.21	2.00	1.77
AT25320-10PI-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V	8-Dip	2.54	2.15	1.91
AT25320-10PI-ND	32K (4Kx8) Serial EEPROM, 5V	8-Dip	3.09	1.92	1.70
AT25320N-10SC-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V	8-SOIC	3.21	2.00	1.77
AT25320N-10SI-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V	8-SOIC	2.54	2.15	1.91
AT25640-10PI-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	8.71	6.61	6.01
AT25640-10PI-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V	8-Dip	3.63	2.97	2.66
AT25640-10PC-ND	64K (8Kx8) Serial EEPROM, 5V	8-Dip	3.81	2.42	2.16
AT25640N-10SI-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	8.71	6.61	6.01
AT25640N-10SI-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V	8-SOIC	3.63	2.97	2.66
AT25128-10PI-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	12.75	9.41	8.60
AT25128-10PI-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V	8-Dip	5.31	4.20	3.79
AT25128N-10SI-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	6.62	5.14	4.65
AT25128N-10SI-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V	8-SOIC	2.75	2.31	2.06
AT25256-10PI-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	10.00	7.51	6.84
AT25256-10PI-2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V	8-Dip	4.17	3.37	3.02
AT25HP512-10PI2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V	8-Dip	7.42	5.35	4.83

3-Wire Serial Interface EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT93C46-10PI-2.7-ND	1K (128x8 or 64x16) Serial EEPROM, 2.7V	8-Dip	.69	.68	.58
AT93C46A-10PC-2.7-ND	1K (64x16) Serial EEPROM, 2.7V	8-Dip	1.11	.61	.52
AT93C46A-10PI-2.7-ND	1K (64x16) Serial EEPROM, 2.7V	8-Dip	.69	.68	.58
AT93C46-10PC-ND	1K (128x8 or 64x16) Serial EEPROM, 5V	8-Dip	1.11	.61	.52
AT93C46A-10PC-ND	1K (64x16) Serial EEPROM, 5V	8-Dip	1.11	.61	.52
AT93C46A-10PI-ND	1K (64x16) Serial EEPROM, 5V	8-Dip	1.23	.68	.58
AT93C46-10SI-2.7-ND	1K (128x8 or 64x16) Serial EEPROM, 2.7V	8-SOIC	.69	.68	.58
AT93C46A-10SC-2.7-ND	1K (64x16) Serial EEPROM, 2.7V	8-SOIC	1.17	.64	.55
AT93C46A-10SI-2.7-ND	1K (64x16) Serial EEPROM, 2.7V	8-SOIC	.69	.68	.58
AT93C56-10PC-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V	8-Dip	1.32	.74	.63
AT93C56-10PI-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V	8-Dip	.65	.64	.55
AT93C56-10PI-ND	2K (256x8 or 128x16) Serial EEPROM, 5V	8-Dip	1.46	.83	.71
AT93C56-10SC-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V	8-SOIC	1.37	.77	.66
AT93C56-10SI-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V	8-SOIC	.88	.84	.73
AT93C56-10SI-ND	2K (256x8 or 128x16) Serial EEPROM, 5V	8-SOIC	1.49	.84	.73
AT93C66-10PC-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V	8-Dip	1.54	.88	.76
AT93C66-10PI-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V	8-Dip	1.08	1.00	.87
AT93C66-10PI-ND	4K (512x8 or 256x16) Serial EEPROM, 5V	8-Dip	1.73	1.00	.87
AT93C66-10SI-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V	8-SOIC	1.20	1.11	.96
AT93C66-10SI-ND	4K (512x8 or 256x16) Serial EEPROM, 5V	8-SOIC	1.73	1.00	.87

EPROMS

Low Power Battery Voltage EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27BV256-90JC-ND	256K (32Kx8) CMOS EPROM 2.7V 90nS OTP	32-PLCC	2.49	2.12	1.88
AT27BV256-12JC-ND	256K (32Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	2.32	1.98	1.76
AT27BV512-90JC-ND	512K (64Kx8) CMOS EPROM 2.7V 90nS OTP	32-PLCC	2.67	2.25	2.00
AT27BV512-12JC-ND	512K (64Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	2.49	2.12	1.88
AT27BV010-90JC-ND	1 Meg (128Kx8) CMOS EPROM 2.7V 90nS OTP	32-PLCC	3.78	3.08	2.76
AT27BV010-12JC-ND	1 Meg (128Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	3.27	2.70	2.41
AT27BV1024-12JC-ND	1 Meg (64Kx16) CMOS EPROM 2.7V 120nS OTP	44-PLCC	3.78	3.08	2.76
AT27BV020-90JC-ND	2 Meg (256Kx8) CMOS EPROM 2.7V 90nS OTP	32-PLCC	4.99	3.96	3.57
AT27BV020-12JC-ND	2 Meg (256Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	4.56	3.65	3.28
AT27BV040-12JC-ND	4 Meg (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	6.62	5.14	4.65
AT27BV040-15JC-ND	4 Meg (512Kx8) CMOS EPROM 2.7V 150nS OTP	32-PLCC	6.19	4.83	4.37
AT27BV4096-15JC-ND	4 Meg (256Kx16) CMOS EPROM 2.7V 150nS OTP	44-PLCC	7.05	5.44	4.93

Low Power Low Voltage EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27LV256A-55JC-ND	256K (32Kx8) CMOS EPROM 3.0V 55nS OTP	32-PLCC	2.92	2.44	2.17
AT27LV256A-55RC-ND	256K (32Kx8) CMOS EPROM 3.0V 55nS OTP	28-SOIC	3.10	2.57	2.29
AT27LV256A-70JC-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	32-PLCC	2.67	2.25	2.00
AT27LV256A-70RC-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-SOIC	2.84	2.38	2.12
AT27LV512A-70JC-ND	512K (64Kx8) CMOS EPROM 3.0V 70nS OTP	32-PLCC	2.92	2.44	2.17
AT27LV512A-70RC-ND	512K (64Kx8) CMOS EPROM 3.0V 70nS OTP	28-SOIC	3.10	2.57	2.29
AT27LV512A-90JC-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	2.49	2.12	1.88
AT27LV512A-90RC-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP	28-SOIC	2.67	2.25	2.00
AT27LV010A-90JC-ND	1 Meg (128Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	3.53	2.89	2.59
AT27LV010A-12JC-ND	1 Meg (128Kx8) CMOS EPROM 3.0V 120nS OTP	32-PLCC	3.10	2.57	2.29

(Continued)

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EEPROMs *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AT27LV020A-90JC-ND	2 Meg (256Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	4.64	3.71	3.34
AT27LV020A-12JC-ND	2 Meg (256Kx8) CMOS EPROM 3.0V 120nS OTP	32-PLCC	4.21	3.40	3.05
AT27LV040A-90JC-ND	4 Meg (512Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	6.45	5.02	4.54
AT27LV040A-12JC-ND	4 Meg (512Kx8) CMOS EPROM 3.0V 120nS OTP	32-PLCC	6.11	4.77	4.31

5V EPROMS

Digi-Key Part No.	Description	Pkg.	1	25	100
AT27C256R-70JC-ND	256K (32Kx8) CMOS EPROM 70nS OTP	32-PLCC	1.94	1.69	1.49
AT27C256R-70PC-ND	256K (32Kx8) CMOS EPROM 70nS OTP	28-Dip	1.94	1.69	1.49
AT27C256R-70RC-ND	256K (32Kx8) CMOS EPROM 70nS OTP	28-SOIC	2.11	1.82	1.61
AT27C512R-70JC-ND	512K (64Kx8) CMOS EPROM 70nS OTP	32-PLCC	2.11	1.82	1.61
AT27C512R-70PC-ND	512K (64Kx8) CMOS EPROM 70nS OTP	28-Dip	2.11	1.82	1.61
AT27C512R-70RC-ND	512K (64Kx8) CMOS EPROM 70nS OTP	28-SOIC	2.28	1.95	1.73
AT27C520-90SC-ND	512K (64Kx8) CMOS EPROM w/Address Latch 90nS OTP	20-SOIC	2.80	1.72	1.52
AT27C010-55JC-ND	1 Meg (128Kx8) CMOS EPROM 55nS OTP	32-PLCC	3.05	2.54	2.26
AT27C010-70JC-ND	1 Meg (128Kx8) CMOS EPROM 70nS OTP	32-PLCC	2.88	2.41	2.15
AT27C010-70PC-ND	1 Meg (128Kx8) CMOS EPROM 70nS OTP	32-Dip	2.88	2.41	2.15
AT27C1024-70JC-ND	1 Meg (64Kx16) CMOS EPROM 70nS OTP	44-PLCC	3.31	2.73	2.44
AT27C1024-70PC-ND	1 Meg (64Kx16) CMOS EPROM 70nS OTP	40-Dip	3.48	2.86	2.56
AT27C020-70JC-ND	2 Meg (256Kx8) CMOS EPROM 70nS OTP	32-PLCC	3.87	3.15	2.82
AT27C020-70PC-ND	2 Meg (256Kx8) CMOS EPROM 70nS OTP	32-Dip	4.04	3.27	2.94
AT27C040-70JC-ND	4 Meg (512Kx8) CMOS EPROM 70nS OTP	32-PLCC	5.50	4.34	3.91
AT27C040-70PC-ND	4 Meg (512Kx8) CMOS EPROM 70nS OTP	32-Dip	5.68	4.46	4.03
AT27C040-90JC-ND	4 Meg (512Kx8) CMOS EPROM 90nS OTP	32-PLCC	5.07	4.03	3.63
AT27C040-90PC-ND	4 Meg (512Kx8) CMOS EPROM 90nS OTP	32-Dip	5.25	4.15	3.74
AT27C400-90JC-ND	4 Meg (512Kx8) or (256x16) CMOS EPROM 90nS OTP	44-PLCC	7.67	5.26	4.77
AT27C4096-70JC-ND	4 Meg (256Kx16) CMOS EPROM 70nS OTP	44-PLCC	5.93	4.65	4.20
AT27C4096-70PC-ND	4 Meg (256Kx16) CMOS EPROM 70nS OTP	40-Dip	6.11	4.77	4.31
AT27C080-90PC-ND	8 Meg (1Mx8) CMOS EPROM 90nS OTP	32-Dip	10.58	7.91	7.22
AT27C080-90JC-ND	8 Meg (1Mx8) CMOS EPROM 90nS OTP	32-PLCC	10.23	7.67	7.00
AT27C080-12JC-ND	8 Meg (1Mx8) CMOS EPROM 120nS OTP	32-PLCC	9.63	7.26	6.61

PARALLEL EEPROM

Parallel EEPROM: Battery-Voltage (2.7 to 3.6V)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AT28BV64B-20JC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	32-PLCC	4.56	3.65	3.28
AT28BV64B-20JI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	32-PLCC	5.16	4.09	3.69
AT28BV64B-20PC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-Dip	4.56	3.65	3.28
AT28BV64B-20PI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-Dip	5.16	4.09	3.69
AT28BV64B-20SC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-SOIC	4.99	3.96	3.57
AT28BV64B-20SI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-SOIC	5.68	4.46	4.03
AT28BV64B-20TC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-TSOP	4.99	3.96	3.57
AT28BV64B-20TI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-TSOP	5.68	4.46	4.03
AT28BV256-20JC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	32-PLCC	9.98	7.50	6.83
AT28BV256-20JI-ND	256K (32Kx8) 2.7V EEPROM, 200nS	32-PLCC	11.44	8.51	7.77
AT28BV256-20PC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-Dip	9.98	7.50	6.83
AT28BV256-20PI-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-Dip	11.44	8.51	7.77
AT28BV256-20SC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-SOIC	10.92	8.15	7.44
AT28BV256-20SI-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-SOIC	12.38	9.16	8.37
AT28BV256-20TC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-TSOP	10.92	8.15	7.44
AT28BV256-20TI-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-TSOP	12.38	9.16	8.37

Parallel EEPROM: Low-Voltage (3.0 to 3.6V)

Digi-Key Part No.	Description	Pkg.	1	25	100
AT28LV010-20JC-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-PLCC	32.25	22.36	20.65
AT28LV010-20JI-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-PLCC	37.07	25.48	23.56
AT28LV010-20PC-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-Dip	32.25	22.36	20.65
AT28LV010-20PI-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-Dip	37.07	25.48	23.56
AT28LV010-20TC-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-TSOP	35.52	24.48	22.62
AT28LV010-20TI-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-TSOP	40.33	27.58	25.52

Parallel EEPROM: Standard Voltage (5.0V)

Digi-Key Part No.	Description	Pkg.	1	25	100
AT28C16-15JC-ND	16K (2Kx8) 5V EEPROM, 150nS	32-PLCC	2.67	2.25	2.00
AT28C16-15JI-ND	16K (2Kx8) 5V EEPROM, 150nS	32-PLCC	3.01	2.51	2.23
AT28C16-15PC-ND	16K (2Kx8) 5V EEPROM, 150nS	24-Dip	2.67	2.25	2.00
AT28C16-15PI-ND	16K (2Kx8) 5V EEPROM, 150nS	24-Dip	3.01	2.51	2.23
AT28C16-15SC-ND	16K (2Kx8) 5V EEPROM, 150nS	24-SOIC	2.92	2.44	2.17
AT28C16-15SI-ND	16K (2Kx8) 5V EEPROM, 150nS	24-SOIC	3.35	2.76	2.47
AT28C16-15TC-ND	16K (2Kx8) 5V EEPROM, 150nS	28-TSOP	2.92	2.44	2.17
AT28C16-15TI-ND	16K (2Kx8) 5V EEPROM, 150nS	28-TSOP	3.35	2.76	2.47
AT28C64B-15JC-ND	64K (8Kx8) 5V EEPROM, 150nS	32-PLCC	4.30	3.46	3.11
AT28C64B-15JI-ND	64K (8Kx8) 5V EEPROM, 150nS	32-PLCC	4.90	3.90	3.51
AT28C64B-15PC-ND	64K (8Kx8) 5V EEPROM, 150nS	28-Dip	4.30	3.46	3.11
AT28C64B-15PI-ND	64K (8Kx8) 5V EEPROM, 150nS	28-Dip	4.90	3.90	3.51
AT28C64B-15SC-ND	64K (8Kx8) 5V EEPROM, 150nS	28-SOIC	4.64	3.71	3.34
AT28C64B-15SI-ND	64K (8Kx8) 5V EEPROM, 150nS	28-SOIC	5.33	4.21	3.80
AT28C64B-15TC-ND	64K (8Kx8) 5V EEPROM, 150nS	28-TSOP	4.64	3.71	3.34
AT28C64B-15TI-ND	64K (8Kx8) 5V EEPROM, 150nS	28-TSOP	5.33	4.21	3.80
AT28HC64B-90JC-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	32-PLCC	4.82	3.84	3.46
AT28HC64B-90JI-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	32-PLCC	5.59	4.40	3.97
AT28HC64B-90PC-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	28-Dip	4.82	3.84	3.46
AT28HC64B-90PI-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	28-Dip	5.59	4.40	3.97
AT28HC64B-90SC-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	28-SOIC	5.33	4.21	3.80
AT28HC64B-90SI-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	28-SOIC	6.02	4.71	4.26
AT28HC64B-90TC-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	28-TSOP	5.33	4.21	3.80
AT28HC64B-90TI-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	28-TSOP	6.02	4.71	4.26
AT28HC64B-12JC-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	32-PLCC	4.47	3.59	3.23
AT28HC64B-12JI-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	32-PLCC	5.16	4.09	3.69
AT28HC64B-12PC-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	28-Dip	4.47	3.59	3.23
AT28HC64B-12PI-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	28-Dip	5.16	4.09	3.69
AT28HC64B-12SC-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	28-SOIC	4.90	3.90	3.51
AT28HC64B-12SI-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	28-SOIC	5.59	4.40	3.97
AT28HC64B-12TC-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	28-TSOP	4.90	3.90	3.51
AT28HC64B-12TI-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	28-TSOP	5.59	4.40	3.97
AT28C256-15JC-ND	256K (32Kx8) 5V EEPROM, 150nS	32-PLCC	9.63	7.26	6.61
AT28C256-15JI-ND	256K (32Kx8) 5V EEPROM, 150nS	32-PLCC	11.09	8.27	7.55
AT28C256-15PC-ND	256K (32Kx8) 5V EEPROM, 150nS	28-Dip	9.63	7.26	6.61
AT28C256-15PI-ND	256K (32Kx8) 5V EEPROM, 150nS	28-Dip	11.09	8.27	7.55
AT28C256-15SC-ND	256K (32Kx8) 5V EEPROM, 150nS	28-SOIC	10.58	7.91	7.22
AT28C256-15SI-ND	256K (32Kx8) 5V EEPROM, 150nS	28-SOIC	12.04	8.92	8.15
AT28C256-15TC-ND	256K (32Kx8) 5V EEPROM, 150nS	28-TSOP	10.58	7.91	7.22
AT28C256-15TI-ND	256K (32Kx8) 5V EEPROM, 150nS	28-TSOP	12.04	8.92	8.15
AT28C256F-15JC-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	32-PLCC	11.09	8.27	7.55
AT28C256F-15JI-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	32-PLCC	12.73	9.39	8.59
AT28C256F-15PC-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	28-Dip	11.09	8.27	7.55
AT28C256F-15PI-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	28-Dip	12.73	9.39	8.59
AT28C256F-15SC-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	28-SOIC	12.21	9.04	8.26
AT28C256F-15SI-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	28-SOIC	13.85	10.16	9.30
AT28C256F-15TC-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	28-TSOP	12.21	9.04	8.26
AT28C256F-15TI-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	28-TSOP	13.85	10.16	9.30
AT28HC256-70PC-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	12.73	9.39	8.59
AT28HC256-70PI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	14.62	10.68	9.78
AT28HC256-90PC-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	28-Dip	11.01	8.21	7.49
AT28HC256-90PI-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	28-Dip	12.64	9.33	8.53
AT28HC256-90SC-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	28-SOIC	12.04	8.92	8.15
AT28HC256-90SI-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	28-SOIC	13.67	10.04	9.19
AT28HC256-90TC-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	28-TSOP	12.04	8.92	8.15
AT28HC256-90TI-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	28-TSOP	13.67	10.04	9.19
AT28HC256F-90JC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	32-PLCC	12.90	9.51	8.70
AT28HC256F-90JI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	32-PLCC	14.88	10.86	9.95
AT28HC256F-90PC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-Dip	12.90	9.51	8.70
AT28HC256F-90PI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-Dip	14.88	10.86	9.95
AT28HC256F-90SC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-SOIC	14.19	10.39	9.51
AT28HC256F-90SI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-SOIC	16.17	11.73	10.76
AT28HC256F-90TC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-TSOP	14.19	10.39	9.51
AT28HC256F-90TI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-TSOP	16.17	11.73	10.76
AT28HC256-12JC-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	32-PLCC	10.06	7.55	6.89
AT28HC256-12JI-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	32-PLCC	11.61	8.62	7.88
AT28HC256-12PC-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-Dip	10.06	7.55	6.89
AT28HC256-12PI-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-Dip	11.61	8.62	7.88
AT28HC256-12SC-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-SOIC	11.09	8.27	7.55
AT28HC256-12SI-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-SOIC	12.64	9.33	8.53
AT28HC256-12TC-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-TSOP	11.09	8.27	7.55
AT28HC256-12TI-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-TSOP	12.64	9.33	8.53
AT28HC256F-12JC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	32-PLCC	11.87	8.80	8.04
AT28HC256F-12JI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	32-PLCC	13.67	10.04	9.19
AT28HC256F-12PC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-Dip	11.87	8.80	8.04
AT28HC256F-12PI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-Dip	13.67	10.04	9.19
AT28HC256F-12SC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-SOIC	13.07	9.63	8.81
AT28HC256F-12SI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-SOIC	14.88	10.86	9.95
AT28HC256F-12TC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-TSOP	13.07	9.63	8.81
AT28HC256F-12TI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-TSOP	14.88	10.86	9.95
AT28C010-15JC-ND	1M (128Kx8) 5V EEPROM, 150nS	32-PLCC	29.41	20.51	18.93
AT28C010-15JI-ND	1M (128Kx8) 5V EEPROM, 150nS	32-PLCC	33.88	23.42	21.64
AT28C010-15PC-ND	1M (128Kx8) 5V EEPROM, 150nS	32-Dip	29.41	20.51	18.93
AT28C010-15PI-ND	1M (128Kx8) 5V EEPROM, 150nS	32-Dip	33.88	23.42	21.64
AT28C010-15TC-ND	1M (128Kx8) 5V EEPROM, 150nS	32-TSOP	32.34	22.42	20.70
AT28C010-15TI-ND	1M (128Kx8) 5V EEPROM, 150nS	32-TSOP	36.81	25.31	23.40

FLASH MEMORY

Flash Memory: Voltage (2.7 to 3.6V)
Single-Voltage Read and Write

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AT29BV010A-20JC-ND	1M (128Kx8) 2.7V Small Sector Flash, 200nS	32-PLCC	5.85	4.58	4.14
AT29BV010A-20JI-ND	1M (128Kx8) 2.7V Small Sector Flash, 200nS	32-PLCC	7.05	5.44	4.93
AT29BV010A-20TC-ND	1M (128Kx8) 2.7V Small Sector Flash, 200nS	32-TSOP	6.28	4.89	4.43
AT29BV010A-20TI-ND	1M (128Kx8) 2.7V Small Sector Flash, 200nS	32-TSOP	7.48	5.75	5.22
AT29BV040A-25TC-ND	4M (512Kx8) 2.7V Small Sector Flash, 250nS	32-TSOP	11.78	8.74	7.99
AT29BV040A-25TI-ND	4M (512Kx8) 2.7V Small Sector Flash, 250nS	32-TSOP	14.02	10.27	9.41
AT49BV512-12JC-ND	512K (64Kx8) 2.7V Boot Flash, 120nS	32-PLCC	3.78	3.08	2.76
AT49BV512-12JI-ND	512K (64Kx8) 2.7V Boot Flash, 120nS	32-PLCC	4.56	3.65	3.28
AT49BV512-12TC-ND	512K (64Kx8) 2.7V Boot Flash, 120nS	32-TSOP	4.21	3.40	3.05
AT49BV512-12TI-ND	512K (64Kx8) 2.7V Boot Flash, 120nS	32-TSOP	4.99	3.96	3.57
AT49BV002-90JC-ND	2M (256Kx8) 2.7V Parametric Flash, 90nS	32-PLCC	5.16	4.09	3.69
AT49BV002-90JI-ND	2M (256Kx8) 2.7V Parametric Flash, 90nS	32-PLCC	5.68	4.46	4.03
AT49BV002-90TC-ND	2M (256Kx8) 2.7V Parametric Flash, 90nS	32-TSOP	6.28	4.89	4.43
AT49BV002-90TI-ND	2M (256Kx8) 2.7V Parametric Flash, 90nS	32-TSOP	6.54	5.08	4.60
AT49BV002N-90JC-ND	2M (256Kx8) 2.7V Parametric Flash (No Reset), 90nS	32-PLCC	5.16	4.09	3.69
AT49BV002N-90JI-ND	2M (256Kx8) 2.7V Parametric Flash (No Reset), 90nS	32-PLCC	5.68	4.46	4.03
AT49BV002N-90TC-ND	2M (256Kx8) 2.7V Parametric Flash (No Reset), 90nS	32-TSOP	6.28	4.89	4.43
AT49BV002N-90TI-ND	2M (256Kx8) 2.7V Parametric Flash (No Reset), 90nS	32-TSOP	6.54	5.08	4.60
AT49BV040-12JC-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-PLCC	7.74	5.93	5.38
AT49BV040-12JI-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-PLCC	8.51	6.47	5.89
AT49BV040-12TC-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-TSOP	9.12	6.90	6.28
AT49BV040-12TI-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-TSOP	9.46	7.14	6.50
AT49BV040-12VC-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-TSOP	9.46	7.14	6.50
AT49BV040-12VI-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-TSOP	10.92	8.15	7.44
AT49BV4096A-12RI-ND	4M (512Kx8, 256Kx16) 2.7V Parametric Flash, 120nS	44-SOIC	9.63	7.26	6.61
AT49BV4096A-12TC-ND	4M (512Kx8, 256Kx16) 2.7V Parametric Flash, 120nS	32-TSOP	9.63	7.26	6.61
AT49BV4096A-12TI-ND	4M (512Kx8, 256Kx16) 2.7V Parametric Flash, 120nS	32-TSOP	10.06	7.55	6.89

Flash Memory: Low-Voltage (3.0 to 3.6V)
Single-Voltage Read and Write

Digi-Key Part No.	Description	Pkg.	1	25	100
AT29LV256-15JC-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	32-PLCC	3.78	3.08	2.76
AT29LV256-15JI-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	32-PLCC	4.56	3.65	3.28
AT29LV256-15TC-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	28-TSOP	4.21	3.40	3.05
AT29LV256-15TI-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	28-TSOP	4.99	3.96	3.57
AT29LV512-15JC-ND	512K (64Kx8) 3V Small Sector Flash, 150nS	32-PLCC	4.13	3.34	2.99
AT29LV512-15JI-ND	512K (64Kx8) 3V Small Sector Flash, 150nS	32-PLCC	4.99	3.96	3.57
AT29LV512-15TC-ND	512K (64Kx8) 3V Small Sector Flash, 150nS	32-TSOP	4.56	3.65	3.28
AT29LV512-15TI-ND	512K (64Kx8) 3V Small Sector Flash, 150nS	32-TSOP	5.42	4.28	3.86
AT29LV010A-15JC-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-PLCC	5.68	4.46	4.03
AT29LV010A-15JI-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-PLCC	6.79	5.26	4.77
AT29LV010A-15TC-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-TSOP	6.11	4.77	4.31
AT29LV010A-15TI-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-TSOP	7.22	5.57	5.05
AT29LV1024-15JC-ND	1M (64Kx16) 3V Small Sector Flash, 150nS	44-PLCC	5.93	4.65	4.20
AT29LV1024-15JI-ND	1M (64Kx16) 3V Small Sector Flash, 150nS	44-PLCC	7.14	5.50	4.99
AT29LV1024-15TC-ND	1M (64Kx16) 3V Small Sector Flash, 150nS	48-TSOP	6.36	4.95	4.48
AT29LV1024-15TI-ND	1M (64Kx16) 3V Small Sector Flash, 150nS	48-TSOP	7.57	5.81	5.27
AT29LV020-20JC-ND	2M (256Kx8) 3V Small Sector Flash, 200nS	32-PLCC	6.88	5.32	4.82
AT29LV020-20JI-ND	2M (256Kx8) 3V Small Sector Flash, 200nS	32-PLCC	8.26	6.29	5.72
AT29LV020-20TC-ND	2M (256Kx8) 3V Small Sector Flash, 200nS	32-TSOP	7.31	5.63	5.10
AT29LV020-20TI-ND	2M (256Kx8) 3V Small Sector Flash, 200nS	32-TSOP	8.69	6.60	6.00
AT29LV040A-20TC-ND	4M (512Kx8) 3V Small Sector Flash, 200nS	32-TSOP	12.04	8.92	8.15
AT29LV040A-20TI-ND	4M (512Kx8) 3V Small Sector Flash, 200nS	32-TSOP	13.24	9.74	8.92
AT49LV001-90JC-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-PLCC	4.21	3.40	3.05
AT49LV001-90JI-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-PLCC	4.64	3.71	3.34
AT49LV001-90TC-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-TSOP	5.33	4.21	3.80
AT49LV001-90TI-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-TSOP	5.50	4.34	3.91
AT49LV001-90VC-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-VSOP	5.42	4.28	3.86
AT49LV001-90VI-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-VSOP	5.76	4.52	4.09

(Continued)

FLASH MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT49LV040-90JC-ND	4M (512Kx8) 2.7V Boot Flash, 90nS	32-PLCC	7.83	5.99	5.44
AT49LV040-90JI-ND	4M (512Kx8) 2.7V Boot Flash, 90nS	32-PLCC	8.60	6.54	5.94
AT49LV040-90TC-ND	4M (512Kx8) 2.7V Boot Flash, 90nS	32-TSOP	9.20	6.96	6.33
AT49LV040-90TI-ND	4M (512Kx8) 2.7V Boot Flash, 90nS	32-TSOP	9.55	7.20	6.55
AT49LV040-90VC-ND	4M (512Kx8) 2.7V Boot Flash, 90nS	32-VSOP	9.55	7.20	6.55
AT49LV040-90VI-ND	4M (512Kx8) 2.7V Boot Flash, 90nS	32-VSOP	11.09	8.27	7.55

Flash Memory: Standard Voltage (4.5 to 5.5V) Single-Voltage Read & Write

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT29C512-70JC-ND	512K (64Kx8) 5V Small Sector Flash, 70nS	32-PLCC	5.16	4.09	3.69
AT29C512-70JI-ND	512K (64Kx8) 5V Small Sector Flash, 70nS	32-PLCC	6.19	4.83	4.37
AT29C512-70PC-ND	512K (64Kx8) 5V Small Sector Flash, 70nS	32-Dip	5.16	4.09	3.69
AT29C512-70PI-ND	512K (64Kx8) 5V Small Sector Flash, 70nS	32-Dip	6.19	4.83	4.37
AT29C512-70TC-ND	512K (64Kx8) 5V Small Sector Flash, 70nS	32-TSOP	5.59	4.40	3.97
AT29C512-70TI-ND	512K (64Kx8) 5V Small Sector Flash, 70nS	32-TSOP	6.62	5.14	4.65
AT29C010A-70JC-ND	1M (128Kx8) 5V Small Sector Flash, 70nS	32-PLCC	6.71	5.20	4.71
AT29C010A-70JI-ND	1M (128Kx8) 5V Small Sector Flash, 70nS	32-PLCC	8.08	6.17	5.61
AT29C010A-70PC-ND	1M (128Kx8) 5V Small Sector Flash, 70nS	32-Dip	6.71	5.20	4.71
AT29C010A-70PI-ND	1M (128Kx8) 5V Small Sector Flash, 70nS	32-Dip	8.08	6.17	5.61
AT29C010A-70TC-ND	1M (128Kx8) 5V Small Sector Flash, 70nS	32-TSOP	7.14	5.50	4.99
AT29C010A-70TI-ND	1M (128Kx8) 5V Small Sector Flash, 70nS	32-TSOP	8.51	6.47	5.89
AT29C1024-70JC-ND	1M (64Kx16) 5V Small Sector Flash, 70nS	44-PLCC	5.76	4.52	4.09
AT29C1024-70JI-ND	1M (64Kx16) 5V Small Sector Flash, 70nS	44-PLCC	6.88	5.32	4.82
AT29C1024-70TC-ND	1M (64Kx16) 5V Small Sector Flash, 70nS	48-TSOP	6.19	4.83	4.37
AT29C1024-70TI-ND	1M (64Kx16) 5V Small Sector Flash, 70nS	48-TSOP	7.31	5.63	5.10
AT29C020-12JC-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-PLCC	6.45	5.02	4.54
AT29C020-12JI-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-PLCC	7.74	5.93	5.38
AT29C020-12PC-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-Dip	6.45	5.02	4.54
AT29C020-12PI-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-Dip	7.74	5.93	5.38
AT29C020-12TC-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-TSOP	6.88	5.32	4.82
AT29C020-12TI-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-TSOP	8.17	6.23	5.66
AT29C040A-12PC-ND	4M (512Kx8) 5V Small Sector Flash, 120nS	32-Dip	13.42	9.86	9.02
AT29C040A-12PI-ND	4M (512Kx8) 5V Small Sector Flash, 120nS	32-Dip	14.79	10.80	9.89
AT29C040A-12TC-ND	4M (512Kx8) 5V Small Sector Flash, 120nS	32-TSOP	13.85	10.16	9.30
AT49F512-70JC-ND	512K (64Kx8) 5V Boot Flash, 70nS	32-PLCC	3.78	3.08	2.76
AT49F512-70JI-ND	512K (64Kx8) 5V Boot Flash, 70nS	32-PLCC	4.56	3.65	3.28
AT49F512-70PC-ND	512K (64Kx8) 5V Boot Flash, 70nS	32-Dip	3.78	3.08	2.76
AT49F512-70PI-ND	512K (64Kx8) 5V Boot Flash, 70nS	32-Dip	4.56	3.65	3.28
AT49F512-70TC-ND	512K (64Kx8) 5V Boot Flash, 70nS	32-TSOP	4.21	3.40	3.05
AT49F512-70TI-ND	512K (64Kx8) 5V Boot Flash, 70nS	32-TSOP	4.99	3.96	3.57
AT49F001-55JC-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-PLCC	4.73	3.78	3.40
AT49F001-55JI-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-PLCC	5.25	4.15	3.74
AT49F001-55TC-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-TSOP	5.85	4.58	4.14
AT49F001-55TI-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-TSOP	6.11	4.77	4.31
AT49F001-55VC-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-VSOP	5.93	4.65	4.20
AT49F001-55VI-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-VSOP	6.36	4.95	4.48
AT49F001NT-55JC-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-PLCC	4.73	3.78	3.40
AT49F001NT-55JI-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-PLCC	5.25	4.15	3.74
AT49F001NT-55PC-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-Dip	4.73	3.78	3.40
AT49F001NT-55PI-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-Dip	5.25	4.15	3.74
AT49F001NT-55TC-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-TSOP	5.85	4.58	4.14
AT49F001NT-55TI-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-TSOP	6.11	4.77	4.31
AT49F001NT-55VC-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-VSOP	5.93	4.65	4.20
AT49F001NT-55VI-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-VSOP	6.36	4.95	4.48
AT49F1024-55VC-ND	1M (64Kx16) 5V Boot Flash, 55nS	40-VSOP	7.40	5.69	5.16
AT49F1024-55VI-ND	1M (64Kx16) 5V Boot Flash, 55nS	40-VSOP	7.83	5.99	5.44
AT49F1025-55JI-ND	1M (64Kx16) 5V Boot Flash, 55nS	44-PLCC	6.62	5.14	4.65
AT49F002T-70JC-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-PLCC	5.07	4.03	3.63
AT49F002T-70JI-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-PLCC	5.50	4.34	3.91
AT49F002T-70PC-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-Dip	5.07	4.03	3.63
AT49F002T-70PI-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-Dip	5.50	4.34	3.91
AT49F002T-70TC-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-TSOP	6.11	4.77	4.31
AT49F002T-70TI-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-TSOP	6.36	4.95	4.48
AT49F002T-70VC-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-VSOP	6.28	4.89	4.43
AT49F002T-70VI-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-VSOP	6.62	5.14	4.65
AT49F040-70PC-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-Dip	8.43	6.41	5.83
AT49F040-70PI-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-Dip	9.20	6.96	6.33
AT49F040-70TC-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-TSOP	9.72	7.32	6.66
AT49F040-70TI-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-TSOP	10.15	7.61	6.94
AT49F040-70VC-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-VSOP	10.23	7.67	7.00
AT49F040-70VI-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-VSOP	11.87	8.80	8.04
AT49F4096A-90RC-ND	4M (512Kx8, 256Kx16) 5V Parametric Flash, 90nS	44-SOIC	8.34	6.35	5.78
AT49F4096A-90RI-ND	4M (512Kx8, 256Kx16) 5V Parametric Flash, 90nS	44-SOIC	9.12	6.90	6.28
AT49F4096A-90TC-ND	4M (512Kx8, 256Kx16) 5V Parametric Flash, 90nS	48-TSOP	9.20	6.96	6.33
AT49F4096A-90TI-ND	4M (512Kx8, 256Kx16) 5V Parametric Flash, 90nS	48-TSOP	9.63	7.26	6.61

SERIAL DATAFLASH

Serial DataFlash

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT45DB011B-XC-ND	1 Meg Serial DataFlash, 2.7V	14-TSSOP	3.87	3.15	2.82
AT45DB011B-XI-ND	1 Meg Serial DataFlash, 2.7V	14-TSSOP	4.26	3.43	3.08
AT45DB011B-SC-ND	1 Meg Serial DataFlash, 2.7V	8-SOIC	3.70	3.02	2.70
AT45DB011B-SI-ND	1 Meg Serial DataFlash, 2.7V	8-SOIC	4.09	3.30	2.97
AT45DB021B-TC-ND	2 Meg Serial DataFlash, 2.7V	28-TSOP	5.16	4.09	3.69
AT45DB021B-TI-ND	2 Meg Serial DataFlash, 2.7V	28-TSOP	5.63	4.43	4.00
AT45DB021B-SC-ND	2 Meg Serial DataFlash, 2.7V	8-SOIC	4.73	3.78	3.40
AT45DB021B-SI-ND	2 Meg Serial DataFlash, 2.7V	8-SOIC	4.90	3.90	3.51
AT45DB021B-RC-ND	2 Meg Serial DataFlash, 2.7V	28-SOIC	4.82	3.84	3.46
AT45DB021B-RI-ND	2 Meg Serial DataFlash, 2.7V	28-SOIC	5.29	4.18	3.77
AT45DB041B-TC-ND	4 Meg Serial DataFlash, 2.7V	28-TSOP	7.10	5.47	4.96
AT45DB041B-TI-ND	4 Meg Serial DataFlash, 2.7V	28-TSOP	7.78	5.96	5.41
AT45DB041B-SC-ND	4 Meg Serial DataFlash, 2.7V	8-SOIC	6.67	5.17	4.68
AT45DB041B-SI-ND	4 Meg Serial DataFlash, 2.7V	8-SOIC	6.84	5.29	4.79
AT45DB041B-RC-ND	4 Meg Serial DataFlash, 2.7V	28-SOIC	6.75	5.23	4.74
AT45DB041B-RI-ND	4 Meg Serial DataFlash, 2.7V	28-SOIC	7.44	5.72	5.19
AT45DB041B-CC-ND	4 Meg Serial DataFlash, 2.7V	14-CBGA	7.44	5.72	5.19
AT45DB041B-CI-ND	4 Meg Serial DataFlash, 2.7V	14-CBGA	7.61	5.84	5.30
AT45DB081B-TC-ND	8 Meg Serial DataFlash, 2.7V	28-TSOP	11.14	8.30	7.58
AT45DB081B-TI-ND	8 Meg Serial DataFlash, 2.7V	28-TSOP	12.23	9.05	8.27
AT45DB081B-RC-ND	8 Meg Serial DataFlash, 2.7V	28-SOIC	10.79	8.06	7.35
AT45DB081B-RI-ND	8 Meg Serial DataFlash, 2.7V	28-SOIC	11.89	8.82	8.06
AT45DB081B-CC-ND	8 Meg Serial DataFlash, 2.7V	14-CBGA	11.48	8.54	7.79
AT45DB081B-CI-ND	8 Meg Serial DataFlash, 2.7V	14-CBGA	11.65	8.65	7.90
AT45DB081B-CNC-ND	8 Meg Serial DataFlash, 2.7V *NEW!*	8-CASON	5.48	4.26	3.65
AT45DB081B-CNI-ND	8 Meg Serial DataFlash, 2.7V *NEW!*	8-CASON	6.02	4.67	4.00
AT45DB161B-TC-ND	16 Meg Serial DataFlash, 2.7V	28-TSOP	17.63	12.72	11.67
AT45DB161B-TI-ND	16 Meg Serial DataFlash, 2.7V	28-TSOP	19.37	13.88	12.76
AT45DB161B-RC-ND	16 Meg Serial DataFlash, 2.7V	28-SOIC	17.29	12.48	11.46
AT45DB161B-RI-ND	16 Meg Serial DataFlash, 2.7V	28-SOIC	19.03	13.65	12.54
AT45DB161B-CC-ND	16 Meg Serial DataFlash, 2.7V	24-CBGA	17.97	12.95	11.89
AT45DB161B-CI-ND	16 Meg Serial DataFlash, 2.7V	24-CBGA	18.15	13.06	11.99
AT45DB161B-CNC-ND	16 Meg Serial DataFlash, 2.7V *NEW!*	8-CASON	8.60	6.68	5.72
AT45DB161B-CNI-ND	16 Meg Serial DataFlash, 2.7V *NEW!*	8-CASON	9.46	7.34	6.28
AT45DB321B-TC-ND	32 Meg Serial DataFlash, 2.7V	32-TSOP	27.65	19.36	17.85
AT45DB321B-TI-ND	32 Meg Serial DataFlash, 2.7V	32-TSOP	30.42	21.17	19.54
AT45DB321B-CC-ND	32 Meg Serial DataFlash, 2.7V	44-CBGA	27.99	19.58	18.06
AT45DB321B-CI-ND	32 Meg Serial DataFlash, 2.7V	44-CBGA	28.17	19.70	18.17
AT45DB642-TC-ND	64 Meg Serial DataFlash, 2.7V	40-TSOP	47.30	32.04	29.68

8051 ARCHITECTURE MICROCONTROLLERS

Atmel offers a broad range of microcontrollers based on the 8051 architecture, with on-chip Flash or one-time programmable (OTP) QuickFlash™ program memory. The product line includes industry-standard socket drop-in devices, small footprint 20-pin devices, and In-System Programmable (ISP) parts. Device offerings are available in both commercial and industrial grades.

One-Time Programmable 8051-Architecture Microcontrollers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT87F51-24AI-ND	80C31 MCU, 4K Bytes OTP QuickFlash™, 24MHz	44-TQFP	3.42	2.81	2.51
AT87F51-24JC-ND	80C31 MCU, 4K Bytes OTP QuickFlash™, 24MHz	44-PLCC	3.01	2.51	2.23
AT87F51-24JI-ND	80C31 MCU, 4K Bytes OTP QuickFlash™, 24MHz	44-PLCC	3.23	2.67	2.38
AT87F51-24PC-ND	80C31 MCU, 4K Bytes OTP QuickFlash™, 24MHz	40-Dip	3.01	2.51	2.23
AT87F51-24PI-ND	80C31 MCU, 4K Bytes OTP QuickFlash™, 24MHz	40-Dip	3.23	2.67	2.38
AT87F52-24AC-ND	80C32 MCU, 8K Bytes OTP QuickFlash™, 24MHz	44-TQFP	3.48	2.86	2.56
AT87F52-24AI-ND	80C32 MCU, 8K Bytes OTP QuickFlash™, 24MHz	44-TQFP	3.72	3.03	2.72
AT87F52-24JI-ND	80C32 MCU, 8K Bytes OTP QuickFlash™, 24MHz	44-PLCC	2.90	2.43	2.16
AT87F52-24PC-ND	80C32 MCU, 8K Bytes OTP QuickFlash™, 24MHz	40-Dip	2.80	2.34	2.09
AT87F52-24PI-ND	80C32 MCU, 8K Bytes OTP QuickFlash™, 24MHz	40-Dip	2.90	2.43	2.16
AT87F55WD-24AI-ND	80C32 MCU, 20K Bytes OTP QuickFlash™, 24MHz	44-TQFP	8.04	6.14	5.58
AT87F55WD-24JI-ND	80C32 MCU, 20K Bytes OTP QuickFlash™, 24MHz	44-PLCC	7.83	5.99	5.44
AT87F55WD-24PI-ND	80C32 MCU, 20K Bytes OTP QuickFlash™, 24MHz	40-Dip	7.83	5.99	5.44

Flash Reprogrammable 8051-Architecture Microcontrollers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT89C1051U-24PC-ND	80C31 MCU with UART, 1K Bytes Flash, 24MHz	20-Dip	2.75	2.31	2.06
AT89C1051U-24PI-ND	80C31 MCU with UART, 1K Bytes Flash, 24MHz	20-Dip	2.95	2.46	2.19
AT89C1051U-24SC-ND	80C31 MCU with UART, 1K Bytes Flash, 24MHz	20-SOIC	2.75	2.31	2.06
AT89C1051U-24SI-ND	80C31 MCU with UART, 1K Bytes Flash, 24MHz	20-SOIC	2.95	2.46	2.19
AT89C2051-24PC-ND	80C31 MCU with UART, 2K Bytes Flash, 24MHz	20-Dip	3.12	2.59	2.31
AT89C2051-24PI-ND	80C31 MCU with UART, 2K Bytes Flash, 24MHz	20-Dip	3.33	2.75	2.45
AT89C2051-24SC-ND	80C31 MCU with UART, 2K Bytes Flash, 24MHz	20-SOIC	3.12	2.59	2.31
AT89C2051-24SI-ND	80C31 MCU with UART, 2K Bytes Flash, 24MHz	20-SOIC	3.33	2.75	2.45
AT89C4051-24PC-ND	80C31 MCU with UART, 4K Bytes Flash, 24MHz	20-Dip	3.85	3.13	2.81
AT89C4051-24PI-ND	80C31 MCU with UART, 4K Bytes Flash, 24MHz	20-Dip	4.11	3.32	2.98
AT89C4051-24SC-ND	80C31 MCU with UART, 4K Bytes Flash, 24MHz	20-SOIC	3.85	3.13	2.81
AT89C4051-24SI-ND	80C31 MCU with UART, 4K Bytes Flash, 24MHz	20-SOIC	4.11	3.32	2.98
AT89C51-24AC-ND	80C31 MCU, 4K Bytes Flash, 24MHz	44-TQFP	4.95	3.93	3.54
AT89C51-24AI-ND	80C31 MCU, 4K Bytes Flash, 24MHz	44-TQFP	5.27	4.17	3.76
AT89C51-24JC-ND	80C31 MCU, 4K Bytes Flash, 24MHz	44-PLCC	4.75	3.79	3.41
AT89C51-24JI-ND	80C31 MCU, 4K Bytes Flash, 24MHz	44-PLCC	5.07	4.03	3.63
AT89C51-24PC-ND	80C31 MCU, 4K Bytes Flash, 24MHz	40-Dip	4.75	3.79	3.41
AT89C51-24PI-ND	80C31 MCU, 4K Bytes Flash, 24MHz	40-Dip	5.07	4.03	3.63
AT89C52-24AC-ND	80C32 MCU, 8K Bytes Flash, 24MHz	44-TQFP	5.48	4.32	3.90
AT89C52-24AI-ND	80C32 MCU, 8K Bytes Flash, 24MHz	44-TQFP	3.76	3.07	2.75
AT89C52-24JC-ND	80C32 MCU, 8K Bytes Flash, 24MHz	44-PLCC	3.76	3.07	2.75
AT89C52-24JI-ND	80C32 MCU, 8K Bytes Flash, 24MHz	44-PLCC	3.76	3.07	2.75
AT89C52-24PC-ND	80C32 MCU, 8K Bytes Flash, 24MHz	40-Dip	3.76	3.07	2.75
AT89C52-24PI-ND	80C32 MCU, 8K Bytes Flash, 24MHz	40-Dip	3.76	3.07	2.75
AT89C55WD-24AI-ND	80C32 MCU, 20K Bytes Flash, 24MHz	44-TQFP	9.18	6.94	6.32
AT89C55WD-24JI-ND	80C32 MCU, 20K Bytes Flash, 24MHz	44-PLCC	8.97	6.79	6.18
AT89C55WD-24PI-ND	80C32 MCU, 20K Bytes Flash, 24MHz	40-Dip	8.97	6.79	6.18
AT89C51RC-24AI-ND	80C32 MCU, 32K Bytes Flash, 24MHz	44-TQFP	12.88	9.50	8.68
AT89C51RC-24JI-ND	80C32 MCU, 32K Bytes Flash, 24MHz	44-PLCC	12.66	9.35	8.55
AT89C51RC-24PI-ND	80C32 MCU, 32K Bytes Flash, 24MHz	40-Dip	12.66	9.35	8.55
AT89S52-24AC-ND	80C51 MCU, 8K Bytes Flash, 24MHz *NEW!*	44-TQFP	3.23	2.39	2.13
AT89S52-24AI-ND	80C51 MCU, 8K Bytes Flash, 24MHz *NEW!*	44-TQFP	3.23	2.39	2.13
AT89S52-24JC-ND	80C51 MCU, 8K Bytes Flash, 24MHz *NEW!*	44-PLCC	3.23	2.39	2.13
AT89S52-24JI-ND	80C51 MCU, 8K Bytes Flash, 24MHz *NEW!*	44-PLCC	3.23	2.39	2.13
AT89S52-24PC-ND	80C51 MCU, 8K Bytes Flash, 24MHz *NEW!*	40-Dip	3.23	2.39	2.13
AT89S52-24PI-ND	80C51 MCU, 8K Bytes Flash, 24MHz *NEW!*	40-Dip	3.23	2.39	2.13
AT89S8252-24AC-ND	80C32 MCU with SPI, 8K Bytes Flash, 2K Bytes EEPROM, 24MHz	44-TQFP	6.45	5.02	4.54
AT89S8252-24AI-ND	80C32 MCU with SPI, 8K Bytes Flash, 2K Bytes EEPROM, 24MHz	44-TQFP	6.88	5.32	4.82
AT89S8252-24JC-ND	80C32 MCU with SPI, 8K Bytes Flash, 2K Bytes EEPROM, 24MHz	44-PLCC	6.24	4.86	4.40
AT89S8252-24JI-ND	80C32 MCU with SPI, 8K Bytes Flash, 2K Bytes EEPROM, 24MHz	44-PLCC	6.67	5.17	4.68
AT89S8252-24PC-ND	80C32 MCU with SPI, 8K Bytes Flash, 2K Bytes EEPROM, 24MHz	40-Dip	6.24	4.86	4.40
AT89S8252-24PI-ND	80C32 MCU with SPI, 8K Bytes Flash, 2K Bytes EEPROM, 24MHz	40-Dip	6.67	5.17	4.68
AT89S53-24AC-ND	80C32 MCU with SPI, 12K Bytes Flash, 24MHz	44-TQFP	5.48	4.32	3.90
AT89S53-24AI-ND	80C32 MCU with SPI, 12K Bytes Flash, 24MHz	44-TQFP	6.56	5.09	4.61
AT89S53-24JC-ND	80C32 MCU with SPI, 12K Bytes Flash, 24MHz	44-PLCC	5.31	4.20	3.79
AT89S53-24JI-ND	80C32 MCU with SPI, 12K Bytes Flash, 24MHz	44-PLCC	6.56	5.09	4.61
AT89S53-24PC-ND	80C32 MCU with SPI, 12K Bytes Flash, 24MHz	40-Dip	5.31	4.20	3.79
AT89S53-24PI-ND	80C32 MCU with SPI, 12K Bytes Flash, 24MHz	40-Dip	6.56	5.09	4.61

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XICOR NOVRAMS (NON-VOLATILE SRAM)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X20C04J-15-ND	4K (512x8) CMOS Parallel NOVRAM 150ns	32-PLCC	26.10	18.38	16.18
X20C04JI-15-ND	4K (512x8) CMOS Parallel NOVRAM 150ns	32-PLCC	27.39	19.30	16.99
X20C04P-15-ND	4K (512x8) CMOS Parallel NOVRAM 150ns	28-Dip	23.35	16.45	14.48
X20C04PI-15-ND	4K (512x8) CMOS Parallel NOVRAM 150ns	28-Dip	26.85	18.91	16.65
X20C04J-20-ND	4K (512x8) CMOS Parallel NOVRAM 200ns	32-PLCC	23.99	16.91	14.89
X20C04JI-20-ND	4K (512x8) CMOS Parallel NOVRAM 200ns	32-PLCC	25.20	17.75	15.63
X20C16S-35-ND	16K (2Kx8) CMOS Parallel NOVRAM with AUTOSTORE 35ns	28-SOIC	56.05	32.10	28.97
X20C16SI-35-ND	16K (2Kx8) CMOS Parallel NOVRAM with AUTOSTORE 35ns	28-SOIC	58.85	33.70	30.43
X20C16S-45-ND	16K (2Kx8) CMOS Parallel NOVRAM with AUTOSTORE 45ns	28-SOIC	51.75	29.63	26.75
X20C16SI-45-ND	16K (2Kx8) CMOS Parallel NOVRAM with AUTOSTORE 45ns	28-SOIC	54.33	31.11	28.08
X24C44P-ND	256 (16x16) Bit CMOS Serial NOVRAM	8-Dip	2.69	1.89	1.66
X24C44PI-ND	256 (16x16) Bit CMOS Serial NOVRAM	8-Dip	3.14	2.21	1.94
X24C44S-ND	256 (16x16) Bit CMOS Serial NOVRAM	8-SOIC	2.90	2.04	1.80
X24C44SI-ND	256 (16x16) Bit CMOS Serial NOVRAM	8-SOIC	3.46	2.43	2.14

XICOR PARALLEL EEPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X28HC64D-90-ND	64K (8Kx8) CMOS EEPROM 90ns	28-CDip	26.88	14.68	13.89
X28HC64P-90-ND	64K (8Kx8) CMOS EEPROM 90ns	28-Dip	9.68	6.75	5.85
X28HC64PI-90-ND	64K (8Kx8) CMOS EEPROM 90ns	28-Dip	10.84	7.75	6.63
X28HC64J-90-ND	64K (8Kx8) CMOS EEPROM 90ns	32-PLCC	10.11	7.24	6.19
X28HC64JI-90-ND	64K (8Kx8) CMOS EEPROM 90ns	32-PLCC	8.60	6.16	5.27
X28HC64D-12-ND	64K (8Kx8) CMOS EEPROM 120ns	28-CDip	25.26	13.82	13.06
X28HC64DI-12-ND	64K (8Kx8) CMOS EEPROM 120ns	28-CDip	26.34	14.40	13.62
X28HC64P-12-ND	64K (8Kx8) CMOS EEPROM 120ns	28-Dip	4.41	3.16	2.70
X28HC64PI-12-ND	64K (8Kx8) CMOS EEPROM 120ns	28-Dip	6.82	4.88	4.17
X28HC64J-12-ND	64K (8Kx8) CMOS EEPROM 120ns	32-PLCC	7.48	5.36	4.59
X28HC64JI-12-ND	64K (8Kx8) CMOS EEPROM 120ns	32-PLCC	8.06	5.77	4.93
X28HC256J-90-ND	256K (32Kx8) CMOS EEPROM 90ns	32-PLCC	21.50	15.39	13.16
X28HC256JI-90-ND	256K (32Kx8) CMOS EEPROM 90ns	32-PLCC	12.90	9.24	7.90
X28HC256P-90-ND	256K (32Kx8) CMOS EEPROM 90ns	28-Dip	16.13	11.54	9.87
X28HC256J-12-ND	256K (32Kx8) CMOS EEPROM 120ns	32-PLCC	9.18	6.63	5.67
X28HC256JI-12-ND	256K (32Kx8) CMOS EEPROM 120ns	32-PLCC	14.75	10.56	9.04
X28HC256P-12-ND	256K (32Kx8) CMOS EEPROM 120ns	28-Dip	12.90	9.23	7.90
X28HC256PI-12-ND	256K (32Kx8) CMOS EEPROM 120ns	28-Dip	15.05	10.77	9.22
X28HC256J-15-ND	256K (32Kx8) CMOS EEPROM 150ns	32-PLCC	7.53	5.39	4.61
X28HC256JI-15-ND	256K (32Kx8) CMOS EEPROM 150ns	32-PLCC	8.60	6.16	5.27
X28HC256P-15-ND	256K (32Kx8) CMOS EEPROM 150ns	28-Dip	10.75	7.70	6.58
X28HC256PI-15-ND	256K (32Kx8) CMOS EEPROM 150ns	28-Dip	11.83	8.46	7.24

XICOR CPU SUPERVISORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X4043P-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	4.49	3.14	2.72
X4043PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	4.67	3.26	2.83
X4043S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	3.63	2.54	2.20
X4043S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	3.76	2.63	2.28
X4043M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	4.49	3.14	2.72
X4043M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	4.67	3.26	2.83
X4043S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	3.63	2.54	2.20
X4043S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	3.76	2.63	2.28
X4043M8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	4.49	3.14	2.72
X4043M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	4.67	3.26	2.83
X4043S8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	3.63	2.54	2.20
X4043S8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	3.76	2.63	2.28
X4043M8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	4.49	3.14	2.72
X4043M8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	4.67	3.26	2.83
X4043P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	4.49	3.14	2.72
X4043PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	4.67	3.26	2.83
X4043S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	3.63	2.54	2.20
X4043S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	3.76	2.63	2.28
X4043M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	4.49	3.14	2.72
X4043M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	4.67	3.26	2.83
X4045P-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-Dip	4.49	3.14	2.72
X4045PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-Dip	4.67	3.26	2.83
X4045S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	3.63	2.54	2.20
X4045S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	3.76	2.63	2.28
X4045M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	4.49	3.14	2.72
X4045M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	4.67	3.26	2.83
X4045S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	3.63	2.54	2.20
X4045S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	3.76	2.63	2.28
X4045M8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	4.49	3.14	2.72
X4045M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	4.67	3.26	2.83
X4045S8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	3.63	2.54	2.20
X4045S8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	3.76	2.63	2.28
X4045M8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	4.49	3.14	2.72
X4045M8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	4.67	3.26	2.83
X4045P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-Dip	4.49	3.14	2.72
X4045PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-Dip	4.67	3.26	2.83
X4045S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	3.63	2.54	2.20
X4045S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	3.76	2.63	2.28
X4045M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	4.49	3.14	2.72
X4045M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	4.67	3.26	2.83
X4163S8-ND	4.25-4.5V CPU Supervisor with WDT, 16K I^{2}C EE, Reset Low	8-SOIC	3.53	2.46	2.14
X4163S8I-ND	4.25-4.5V CPU Supervisor with WDT, 16K I^{2}C EE, Reset Low	8-SOIC	3.87	2.70	2.34
X4165S8-ND	4.25-4.5V CPU Supervisor with WDT, 16K I^{2}C EE, Reset High	8-SOIC	3.53	2.46	2.14
X4165S8I-ND	4.25-4.5V CPU Supervisor with WDT, 16K I^{2}C EE, Reset High	8-SOIC	3.87	2.70	2.34
X4283S8-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-SOIC	5.14	3.59	3.11
X4283S8I-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-SOIC	5.48	3.83	3.32
X4283V8-ND	4.25-4.5V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset Low	8-TSSOP	5.65	3.95	3.42
X4283V8I-ND	4.25-4.5V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset Low	8-TSSOP	6.06	4.23	3.67
X4283S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-SOIC	5.14	3.59	3.11
X4283S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-SOIC	5.48	3.83	3.32
X4283V8-2.7-ND	2.55-2.7V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset Low	8-TSSOP	5.65	3.95	3.42
X4285S8-ND	4.25-4.5V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset High	8-SOIC	5.14	3.59	3.11
X4285S8I-ND	4.25-4.5V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset High	8-SOIC	5.48	3.83	3.32
X4285V8-ND	4.25-4.5V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset High	8-TSSOP	5.65	3.95	3.42
X4285V8I-ND	4.25-4.5V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset High	8-TSSOP	6.06	4.23	3.67
X4285S8-2.7-ND	2.55-2.7V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset High	8-SOIC	5.14	3.59	3.11
X4285S8I-2.7-ND	2.55-2.7V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset High	8-SOIC	5.48	3.83	3.32
X4285V8-2.7-ND	2.55-2.7V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset High	8-TSSOP	5.65	3.95	3.42
X4285V8I-2.7-ND	2.55-2.7V CPU Supervisor w/WDT, 128K I^{2}C EE, Reset High	8-TSSOP	6.06	4.23	3.67
X4323S8-ND	4.25-4.5V CPU Supervisor with WDT, 32K I^{2}C EE, Reset Low	8-SOIC	4.06	2.84	2.46
X4323S8I-ND	4.25-4.5V CPU Supervisor with WDT, 32K I^{2}C EE, Reset Low	8-SOIC	4.41	3.08	2.67
X4323S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 32K I^{2}C EE, Reset Low	8-SOIC	4.06	2.84	2.46
X4323S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 32K I^{2}C EE, Reset Low	8-SOIC	4.41	3.08	2.67
X4643S8-ND	4.25-4.5V CPU Supervisor with WDT, 64K I^{2}C EE, Reset Low	8-SOIC	4.60	3.21	2.79
X4643S8I-ND	4.25-4.5V CPU Supervisor with WDT, 64K I^{2}C EE, Reset Low	8-SOIC	4.95	3.45	2.99
X4643S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K I^{2}C EE, Reset Low	8-SOIC	4.60	3.21	2.79
X4643S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K I^{2}C EE, Reset Low	8-SOIC	4.95	3.45	2.99
X4645S8-ND	4.25-4.5V CPU Supervisor with WDT, 64K I^{2}C EE, Reset High	8-SOIC	4.60	3.21	2.79
X4645S8I-ND	4.25-4.5V CPU Supervisor with WDT, 64K I^{2}C EE, Reset High	8-SOIC	4.95	3.45	2.99
X4645S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K I^{2}C EE, Reset High	8-SOIC	4.60	3.21	2.79
X4645S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K I^{2}C EE, Reset High	8-SOIC	4.95	3.45	2.99
X5001S8-ND	4.25-4.5V CPU Supervisor with Watchdog Timer, Reset Low	8-SOIC	2.86	2.00	1.73
X5001S8I-ND	4.25-4.5V CPU Supervisor with Watchdog Timer, Reset Low	8-SOIC	3.07	2.15	1.86
X5001S8-2.7-ND	2.55-2.7V CPU Supervisor with Watchdog Timer, Reset Low	8-SOIC	2.86	2.00	1.73
X5043P-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-Dip	3.63	2.54	2.20
X5043PI-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-Dip	3.76	2.63	2.28
X5043S8-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-SOIC	3.63	2.54	2.20
X5043S8I-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-SOIC	3.76	2.63	2.28
X5043M8-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-MSOP	4.49	3.14	2.72
X5043M8I-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-MSOP	4.67	3.26	2.83
X5043V14I-ND	4.25-4.5V CPU Supervisor w/WDT 4K SPI EE, Reset Low	14-TSSOP	4.67	3.26	2.83
X5043S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-SOIC	3.63	2.54	2.20
X5043S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-SOIC	3.76	2.63	2.28
X5043M8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-MSOP	4.49	3.14	2.72
X5043M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-MSOP	4.67	3.26	2.83
X5043S8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-SOIC	3.63	2.54	2.20
X5043S8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-SOIC	3.76	2.63	2.28
X5043M8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-MSOP	4.49	3.14	2.72
X5043M8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-MSOP	4.67	3.26	2.83
X5043P-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-Dip	3.63	2.54	2.20
X5043PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-Dip	3.76	2.63	2.28
X5043S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-SOIC	3.63	2.54	2.20
X5043S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-SOIC	3.76	2.63	2.28
X5043M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-MSOP	4.49	3.14	2.72
X5043M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset Low	8-MSOP	4.67	3.26	2.83
X5043V14I-2.7-ND	2.55-2.7V CPU Supervisor w/WDT 4K SPI EE, Reset Low	14-TSSOP	4.67	3.26	2.83
X5045P-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset High	8-Dip	3.63	2.54	2.20
X5045PI-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset High	8-Dip	3.76	2.63	2.28
X5045S8-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset High	8-SOIC	3.63	2.54	2.20
X5045S8I-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset High	8-SOIC	3.76	2.63	2.28
X5045M8-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset High	8-MSOP	4.49	3.14	2.72
X5045M8I-ND	4.25-4.5V CPU Supervisor with WDT 4K SPI EE, Reset High	8-MSOP	4.67	3.26	2.83
X5045PI-4.5A-ND	4.5-4.75V CPU Supervisor with WDT 4K SPI EE, Reset High	8-Dip	3.76	2.63	2.28
X5045S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT 4K SPI EE, Reset High	8-SOIC	3.63	2.54	2.20
X5045PI-2.7A-ND	2.85-3.0V CPU Supervisor with WDT 4K SPI EE, Reset High	8-Dip	3.76	2.63	2.28
X5045S8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT 4K SPI EE, Reset High	8-SOIC	3.63	2.54	2.20
X5045S8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT 4K SPI EE, Reset High	8-SOIC	3.76	2.63	2.28
X5045P-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset High	8-Dip	3.63	2.54	2.20
X5045PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset High	8-Dip	3.76	2.63	2.28
X5045S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset High	8-SOIC	3.63	2.54	2.20
X5045S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset High	8-SOIC	3.76	2.63	2.28
X5045M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset High	8-MSOP	4.49	3.14	2.72
X5045M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 4K SPI EE, Reset High	8-MSOP	4.67	3.26	2.83
X5083P-ND	4.25-4.5V CPU Supervisor with WDT 8K SPI EE, Reset Low	8-Dip	3.78	2.64	2.29
X5083S8-ND	4.25-4.5V CPU Supervisor with WDT 8K SPI EE, Reset Low	8-SOIC	3.78	2.64	2.29
X5083S8I-ND	4.25-4.5V CPU Supervisor with WDT 8K SPI EE, Reset Low	8-SOIC	3.91	2.73	2.37
X5083S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT 8K SPI EE, Reset Low	8-SOIC	3.78	2.64	2.29
X5083S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 8K SPI EE, Reset Low	8-SOIC	3.91	2.73	2.37
X5163P-ND	4.25-4.5V CPU Supervisor with WDT 16K SPI EE, Reset Low	8-Dip	3.93	2.75	2.38
X5163S8-ND	4.25-4.5V CPU Supervisor with WDT 16K SPI EE, Reset Low	8-SOIC	3.93	2.75	2.38
X5163S8I-ND	4.25-4.5V CPU Supervisor with WDT 16K SPI EE, Reset Low	8-SOIC	4.09	2.85	2.47
X5163S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT 16K SPI EE, Reset Low	8-SOIC	3.93	2.75	2.38
X5163S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 16K SPI EE, Reset Low	8-SOIC	4.39	3.06	2.66
X5165P-ND	4.25-4.5V CPU Supervisor with WDT 16K SPI EE, Reset High	8-Dip	3.93	2.75	2.38
X5165S8-ND	4.25-4.5V CPU Supervisor with WDT 16K SPI EE, Reset High	8-SOIC	3.93	2.75	2.38
X5165S8I-ND	4.25-4.5V CPU Supervisor with WDT 16K SPI EE, Reset High	8-SOIC	4.09	2.85	2.47
X5165S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT 16K SPI EE, Reset High	8-SOIC	3.93	2.75	2.38
X5165S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 16K SPI EE, Reset High	8-SOIC	4.39	3.06	2.66
X5325P-ND	4.25-4.5V CPU Supervisor with WDT 32K SPI EE, Reset High	8-Dip	4.24	2.96	2.57
X5325PI-ND	4.25-4.5V CPU Supervisor with WDT 32K SPI EE, Reset High	8-Dip	4.88	3.41	2.96
X5325S8-ND	4.25-4.5V CPU Supervisor with WDT 32K SPI EE, Reset High	8-SOIC	4.24	2.96	2.57
X5325S8I-ND	4.25-4.5V CPU Supervisor with WDT 32K SPI EE, Reset High	8-SOIC	4.39	3.06	2.66
X5325S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT 32K SPI EE, Reset High	8-SOIC	4.24	2.96	2.57
X5325S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 32K SPI EE, Reset High	8-SOIC	6.58	4.59	3.98
X5643P-ND	4.25-4.5V CPU Supervisor with WDT 64K SPI EE, Reset Low	8-Dip	4.71	3.29	2.85
X5643S14-ND	4.25-4.5V CPU Supervisor with WDT 64K SPI EE, Reset Low	14-SOIC	4.71	3.29	2.85
X5643S14I-ND	4.25-4.5V CPU Supervisor with WDT 64K SPI EE, Reset Low	14-SOIC	4.84	3.38	2.93
X5643S14-2.7-ND	2.55-2.7V CPU Supervisor with WDT 64K SPI EE, Reset Low	14-SOIC	4.71	3.29	2.85
X5643S14I-2.7-ND	2.55-2.7V CPU Supervisor with WDT 64K SPI EE, Reset Low	14-SOIC	8.77	6.12	5.31
X5645P-ND	4.25-4.5V CPU Supervisor with WDT 64K SPI EE, Reset High	8-Dip	4.71	3.29	2.85
X5645S14-ND	4.25-4.5V CPU Supervisor w/WDT 64K SPI EE, Reset High	14-SOIC	4.71	3.29	2.85
X5645S14-2.7-ND	2.55-2.7V CPU Supervisor w/WDT 64K SPI EE, Reset High	14-SOIC	4.71	3.29	2.85

XICOR REALTIME CLOCKS

RealTime Clock/Calendars with dual alarms (programmable frequency output X1227 and X1228 only), and on chip oscillator compensation. The X1227 and X1228 are also CPU Supervisor circuits with two polled alarms. The clock and alarm registers allow the clock to operate without loss of accuracy, even during read and write operations. The clock/calendar provides functionality that is controllable and readable through a set of registers. The clock, using a low-cost 32.768kHz crystal input, accurately tracks the time in seconds, minutes, hours, date, day, month and years. 2-wire interface interoperable with 512 x 8 bits of I2C EEprom. The Supervisor circuits come in 4 reset voltages.

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X1226S8-ND	RTC, Clock/Calendar with Output Frequency and 4K EE	8-SOIC	4.09	2.85	2.47
X1227S8-ND	RTC, 4.25-4.51V CPU Supervisor with WDT 4K EE, Reset Low	8-SOIC	6.13	4.28	3.71
X1227S8-2.7-ND	RTC, 2.57-2.73V CPU Supervisor with WDT 4K EE, Reset Low	8-SOIC	6.13	4.28	3.71
X1227S8-2.7A-ND	RTC, 2.76-2.94V CPU Supervisor with WDT 4K EE, Reset Low	8-SOIC	6.13	4.28	3.71
X1227S8-4.5A-ND	RTC, 4.49-4.77V CPU Supervisor with WDT 4K EE, Reset Low	8-SOIC	6.13	4.28	3.71
X1228S14-ND	RTC, 4.25-4.51V CPU Supervisor w/WDT 4K EE, Reset Low	14-SOIC	6.39	4.46	3.87
X1228S14-2.7-ND	RTC, 2.57-2.73V CPU Supervisor w/WDT 4K EE, Reset Low	14-SOIC	6.39	4.46	3.87
X1228S14-2.7A-ND	RTC, 2.76-2.94V CPU Supervisor w/WDT 4K EE, Reset Low	14-SOIC	6.39	4.46	3.87
X1228S14-4.5A-ND	RTC, 4.49-4.77V CPU Supervisor w/WDT 4K EE, Reset Low	14-SOIC	6.39	4.46	3.87

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X9C102P-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.44	2.40	2.08
X9C102S-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.44	2.40	2.08
X9C102SI-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9C103P-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.44	2.40	2.08
X9C103PI-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.30	3.00	2.60
X9C103S-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.44	2.40	2.08
X9C103SI-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9C104P-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.44	2.40	2.08
X9C104PI-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.30	3.00	2.60
X9C104S-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.44	2.40	2.08
X9C104SI-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9C303P-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-Dip	3.44	2.40	2.08
X9C303PI-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-Dip	4.30	3.00	2.60
X9C303S8-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-SOIC	3.44	2.40	2.08
X9C303S8I-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-SOIC	4.30	3.00	2.60
X9C303V8-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-TSSOP	4.04	2.82	2.45
X9C303V8I-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-TSSOP	5.05	3.53	3.06
X9C503P-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.44	2.40	2.08
X9C503PI-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.30	3.00	2.60
X9C503S-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9C503SI-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9015US8-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	.77	.54	.47
X9015US8I-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	.97	.68	.59
X9015UM8-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-MSOP	.90	.63	.55
X9015UM8I-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-MSOP	1.14	.80	.69
X9015US8-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	.84	.59	.51
X9015US8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	1.05	.74	.64
X9110TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply	14-TSSOP	6.34	4.43	3.84
X9110TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply	14-TSSOP	7.93	5.54	4.80
X9111TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply	14-TSSOP	6.34	4.43	3.84
X9111TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply	14-TSSOP	7.93	5.54	4.80
X9116WS8-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	1.53	1.07	.93
X9116WS8I-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	1.91	1.34	1.16
X9116WM8-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-MSOP	1.81	1.26	1.10
X9116WM8I-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-MSOP	2.26	1.58	1.37
X9116WS8-2.7-ND	Single DCP, 2.7V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	1.68	1.17	1.02
X9116WS8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	2.11	1.47	1.28
X9118TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^{2}C, Dual Supply	14-TSSOP	6.34	4.43	3.84
X9118TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^{2}C, Dual Supply	14-TSSOP	7.93	5.54	4.80
X9119TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^{2}C, Single Supply	14-TSSOP	6.34	4.43	3.84
X9119TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^{2}C, Single Supply	14-TSSOP	7.93	5.54	4.80
X9119TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 1024 Tap, I^{2}C, Single Supply	14-TSSOP	6.99	4.88	4.23
X9119TV14I-2.7-ND	Single DCP, 2.7V, 100KΩ, 1024 Tap, I^{2}C, Single Supply	14-TSSOP	8.73	6.09	5.28
X9221UP-ND	Dual DCP, 5V, 50KΩ, 64 Tap, I^{2}C	20-Dip	4.77	3.63	2.78
X9221UPI-ND	Dual DCP, 5V, 50KΩ, 64 Tap, I^{2}C	20-Dip	5.98	4.55	3.48
X9221US-ND	Dual DCP, 5V, 50KΩ, 64 Tap, I^{2}C	20-SOIC	4.77	3.63	2.78
X9221USI-ND	Dual DCP, 5V, 50KΩ, 64 Tap, I^{2}C	20-SOIC	5.98	4.55	3.48
X9221WP-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C	20-Dip	4.77	3.63	2.78
X9221WPI-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C	20-Dip	5.98	4.55	3.48
X9221WS-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C	20-SOIC	4.77	3.63	2.78
X9241AUP-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^{2}C *NEW!*	20-Dip	7.57	5.28	4.58
X9241AWS-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C	20-SOIC	7.57	5.28	4.58
X9241AWVI-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C	20-TSSOP	11.16	7.79	6.75
X9241UPI-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^{2}C	20-Dip	7.96	6.05	4.63
X9241US-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^{2}C	20-SOIC	7.57	5.28	4.58
X9241UV-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^{2}C	20-TSSOP	8.92	6.23	5.40
X9241UVI-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^{2}C	20-TSSOP	11.16	7.79	6.75
X9241WV-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C	20-TSSOP	8.92	6.23	5.40
X9250TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	10.62	7.41	6.43
X9250TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	13.29	9.27	8.04
X9250TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	11.70	8.16	7.08
X9250TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	14.62	10.20	8.84
X9250US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	10.62	7.41	6.43
X9250US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	13.29	9.27	8.04
X9250US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	11.70	8.16	7.08
X9250US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	14.62	10.20	8.84
X9251TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	10.62	7.41	6.43
X9251TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	13.29	9.27	8.04
X9251TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	11.67	8.15	7.06
X9251TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	14.62	10.20	8.84
X9251US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	10.62	7.41	6.43
X9251US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	13.29	9.27	8.04
X9251US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	11.67	8.15	7.06
X9251US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	14.62	10.20	8.84
X9258TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	10.62	7.41	6.43
X9258TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	13.29	9.27	8.04
X9258TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	11.70	8.16	7.08
X9258TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	14.62	10.20	8.84
X9258US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	10.62	7.41	6.43
X9258US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	13.29	9.27	8.04
X9258US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	11.70	8.16	7.08
X9258US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	14.62	10.20	8.84
X9259TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	10.62	7.41	6.43
X9259TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	13.29	9.27	8.04
X9259TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	11.67	8.15	7.06
X9259TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	14.62	10.20	8.84
X9259US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	10.62	7.41	6.43
X9259US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	13.29	9.27	8.04
X9259US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	11.67	8.15	7.06
X9259US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	14.62	10.20	8.84
X9260TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	7.98	5.57	4.83
X9260US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	7.98	5.57	4.83
X9261TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	7.98	5.57	4.83
X9261US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	7.98	5.57	4.83
X9268TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	7.98	5.57	4.83
X9268US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	7.98	5.57	4.83
X9269TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	7.98	5.57	4.83
X9269US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	7.98	5.57	4.83
X9271TV14-ND	Single DCP, 5V, 100KΩ, 256 Tap, SPI	14-TSSOP	6.39	4.46	3.87
X9271TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 256 Tap, SPI	14-TSSOP	7.01	4.89	4.24
X9271UV14-ND	Single DCP, 5V, 50KΩ, 256 Tap, SPI	14-TSSOP	6.39	4.46	3.87
X9271UV14-2.7-ND	Single DCP, 2.7V, 50KΩ, 256 Tap, SPI	14-TSSOP	7.01	4.89	4.24
X9279TV14-ND	Single DCP, 5V, 100KΩ, 256 Tap, I^{2}C	14-TSSOP	6.39	4.46	3.87
X9279TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 256 Tap, I^{2}C	14-TSSOP	7.01	4.89	4.24
X9279UV14-ND	Single DCP, 5V, 50KΩ, 256 Tap, I^{2}C	14-TSSOP	6.39	4.46	3.87
X9279UV14-2.7-ND	Single DCP, 2.7V, 50KΩ, 256 Tap, I^{2}C	14-TSSOP	7.01	4.89	4.24
X9312US-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	2.88	2.20	1.68
X9312WS-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	2.88	2.20	1.68
X9313TS-ND	Single DCP, 5V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.28	1.59	1.38
X9313US-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.28	1.59	1.38
X9313USI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.86	2.00	1.73
X9313UMI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.38	2.36	2.05
X9313WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.28	1.59	1.38
X9313WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.86	2.00	1.73
X9313ZS-ND	Single DCP, 5V, 1KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.28	1.59	1.38
X9313ZSI-ND	Single DCP, 5V, 1KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.86	2.00	1.73
X9314WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, Log Taper, 3-Wire Up/Down	8-SOIC	2.28	1.59	1.38
X9315TS-ND	Single DCP, 5V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.28	1.59	1.38
X9315TSI-ND	Single DCP, 5V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.86	2.00	1.73
X9315TS-2.7-ND	Single DCP, 2.7V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.80	1.95	1.69
X9315TSI-2.7-ND	Single DCP, 2.7V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.23	2.25	1.95
X9315US-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.28	1.59	1.38
X9315USI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.86	2.00	1.73
X9315UM-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	2.67	1.86	1.62
X9315UMI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.07	2.15	1.86
X9315US-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.80	1.95	1.69
X9315USI-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.23	2.25	1.95
X9315UM-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	2.95	2.06	1.79
X9315UMI-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.38	2.36	2.05
X9315WP-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-Dip	2.28	1.59	1.38
X9315WPI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-Dip	2.86	2.00	1.73
X9315WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.28	1.59	1.38
X9315WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.86	2.00	1.73
X9315WM-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.38	2.36	2.05
X9315WMI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.38	2.36	2.05
X9315WS-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.52	1.76	1.53
X9315WSI-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.14	2.19	1.90
X9315WM-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	2.97	2.07	1.80
X9315WMI-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.72	2.60	2.25
X9317US8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.44	2.40	2.08
X9317US8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9317UM8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.04	2.82	2.45
X9317UM8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.05	3.53	3.06
X9317UV8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.04	2.82	2.45
X9317UV8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.05	3.53	3.06
X9317US8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.78	2.64	2.29
X9317US8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.71	3.29	2.85
X9317UM8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.45	3.11	2.70
X9317UM8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.57	3.89	3.37
X9317UV8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.45	3.11	2.70
X9317UV8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.57	3.89	3.37
X9317WP-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.44	2.40	2.08
X9317WS8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.44	2.40	2.08
X9317WS8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9317WM8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.04	2.82	2.45
X9317WM8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.05	3.53	3.06
X9317WV8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.04	2.82	2.45
X9317WV8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.05	3.53	3.06
X9317WS8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.78	2.64	2.29
X9317WS8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.71	3.29	2.85
X9317WM8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.45	3.11	2.70
X9317WM8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.57	3.89	3.37
X9317WV8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.45	3.11	2.70
X9317WV8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.57	3.89	3.37
X9317ZS8-ND	Single DCP, 5V, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.44	2.40	2.08
X9317ZS8I-ND	Single DCP, 5V, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9400WP24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-Dip	8.41	5.87	5.09
X9400WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	7.57	5.28	4.58
X9400WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	9.44	6.59	5.71
X9400WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	9.44	6.59	5.71
X9400WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	11.80	8.24	7.14
X9400WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	8.32	5.81	5.04
X9400WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	10.38	7.25	6.28
X9400WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	10.38	7.25	6.28
X9400WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	12.99	9.06	7.86
X9401WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	7.57	5.28	4.58
X9401WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	9.44	6.59	5.71
X9401WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	9.44	6.59	5.71
X9401WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	11.80	8.24	7.14
X9401WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	8.32	5.81	5.04
X9401WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	10.38	7.25	6.28
X9401WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	10.38	7.25	6.28
X9401WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	12.99	9.06	7.86
X9408WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	7.57	5.28	4.58
X9408WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	9.44	6.59	5.71

(Continued)

XICOR DIGITALLY CONTROLLED POTENTIOMETERS (XDCP™) *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X9408WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	9.44	6.59	5.71
X9408WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	11.80	8.24	7.14
X9408WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	8.32	5.81	5.04
X9408WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	10.38	7.25	6.28
X9408WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	10.38	7.25	6.28
X9408WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	12.99	9.06	7.86
X9409WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-SOIC	6.84	4.77	4.14
X9409WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-SOIC	8.56	5.97	5.18
X9409WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-TSSOP	9.44	6.59	5.71
X9409WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-TSSOP	11.80	8.24	7.14
X9409WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-SOIC	7.53	5.25	4.55
X9409WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-SOIC	9.40	6.56	5.69
X9409WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-TSSOP	10.38	7.25	6.28
X9409WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-TSSOP	12.99	9.06	7.86
X9410WS24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	5.68	3.96	3.44
X9410WS24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	7.10	4.95	4.29
X9410WV24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	7.10	4.95	4.29
X9410WV24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	8.86	6.18	5.36
X9410WS24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	6.24	4.35	3.77
X9410WS24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	7.78	5.43	4.71
X9410WV24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	7.78	5.43	4.71
X9410WV24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	9.74	6.80	5.89
X9418WS24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	5.68	3.96	3.44
X9418WS24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	7.10	4.95	4.29
X9418WV24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	7.10	4.95	4.29
X9418WV24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	8.86	6.18	5.36
X9418WV24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	7.78	5.43	4.71
X9418WS24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	7.78	5.43	4.71
X9420WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	3.78	2.64	2.29
X9420WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	4.73	3.30	2.86
X9420WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	4.45	3.11	2.70
X9420WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	5.57	3.89	3.37
X9420WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	4.15	2.90	2.51
X9420WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	5.20	3.63	3.15
X9420WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	4.90	3.42	2.97
X9420WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	6.13	4.28	3.71
X9421WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	3.78	2.64	2.29
X9421WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	4.73	3.30	2.86
X9421WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	4.45	3.11	2.70
X9421WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	5.57	3.89	3.37
X9421WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	4.15	2.90	2.51
X9421WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	5.20	3.63	3.15
X9421WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	4.90	3.42	2.97
X9421WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	6.13	4.28	3.71
X9428WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	16-SOIC	3.78	2.64	2.29
X9428WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	16-SOIC	4.73	3.30	2.86
X9428WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	14-TSSOP	4.45	3.11	2.70
X9428WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	14-TSSOP	5.57	3.89	3.37
X9428WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	16-SOIC	4.15	2.90	2.51
X9428WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	16-SOIC	5.20	3.63	3.15
X9428WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	14-TSSOP	4.90	3.42	2.97
X9428WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	14-TSSOP	6.13	4.28	3.71
X9429WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	16-SOIC	3.78	2.64	2.29
X9429WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	16-SOIC	4.73	3.30	2.86
X9429WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	14-TSSOP	4.45	3.11	2.70
X9429WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	14-TSSOP	5.57	3.89	3.37
X9429WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	16-SOIC	4.15	2.90	2.51
X9429WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	16-SOIC	5.20	3.63	3.15
X9429WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	14-TSSOP	4.90	3.42	2.97
X9429WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	14-TSSOP	4.71	3.29	2.85
X9511WP-ND	Single DCP, 5V, 10KΩ, 32 Tap, "Pushpot"	8-Dip	2.28	1.59	1.38
X9511WPI-ND	Single DCP, 5V, 10KΩ, 32 Tap, "Pushpot"	8-Dip	2.86	2.00	1.73
X9511WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, "Pushpot"	8-SOIC	2.28	1.59	1.38
X9511WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, "Pushpot"	8-SOIC	2.86	2.00	1.73

XICOR DCPs FOR LASER DIODE CONTROL OF FIBER OPTIC MODULES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X9520V20I-A-ND	Triple DCP for Laser Diode Control, 2K I^{2}C EE, POR, 3.3V System	20-TSSOP	9.83	6.86	5.95
X9520V20I-B-ND	Triple DCP for Laser Diode Control, 2K I^{2}C EE, POR, 5V System	20-TSSOP	9.83	6.86	5.95
X9521V20I-ND	Dual DCP for Laser Diode Control, 2K I^{2}C EE	20-TSSOP	9.07	6.91	5.28
X9522V20I-A-ND	Triple DCP for Laser Diode Control, I^{2}C, 3.3V System	20-TSSOP	8.49	5.93	5.14
X9522V20I-B-ND	Triple DCP for Laser Diode Control, I^{2}C, 5V System	20-TSSOP	8.49	5.93	5.14
X9523V20I-A-ND	Dual DCP for Laser Diode Control, I^{2}C, POR, 3.3V System	20-TSSOP	7.93	5.54	4.80
X9523V20I-B-ND	Dual DCP for Laser Diode Control, I^{2}C, POR, 5V System	20-TSSOP	7.93	5.54	4.80

XICOR DIGITALLY CONTROLLED POTENTIOMETERS WITH OP AMP

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X9430WS24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-SOIC	4.97	3.47	3.01
X9430WS24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-SOIC	5.22	3.65	3.16
X9430WV24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-TSSOP	4.97	3.47	3.01
X9430WS24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-SOIC	9.14	6.38	5.53
X9430WS24I-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-SOIC	5.22	3.65	3.16
X9430WV24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-TSSOP	4.97	3.47	3.01
X9438WS24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^{2}C	24-SOIC	4.97	3.47	3.01
X9438WS24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^{2}C	24-SOIC	5.22	3.65	3.16
X9438WV24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^{2}C	24-TSSOP	4.97	3.47	3.01
X9438WV24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^{2}C	24-TSSOP	5.22	3.65	3.16
X9438WS24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, I^{2}C	24-SOIC	4.97	3.47	3.01
X9438WV24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, I^{2}C	24-TSSOP	4.97	3.47	3.01

Winbond Electronics Corporation America *NEW!* WinPot™ DIGITAL POTENTIOMETER *NEW!*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
WMS7201050P-ND	Digital Pot., 1 Channel, 256 Tap, 50KΩ	8-Dip	3.29	2.52	1.88
WMS7202010P-ND	Digital Pot., 2 Channel, 256 Tap, 10KΩ	14-Dip	4.13	3.31	2.47
WMS7202050P-ND	Digital Pot., 2 Channel, 256 Tap, 50KΩ	14-Dip	4.13	3.31	2.47
WMS7202100P-ND	Digital Pot., 2 Channel, 256 Tap, 100KΩ	14-Dip	4.13	3.31	2.47
WMS7204050P-ND	Digital Pot., 4 Channel, 256 Tap, 50KΩ	20-Dip	5.57	4.41	3.30

Melexis Microelectronic Integrated Systems SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MLX90217LUA-ND	Hall Effect Geartooth Speed Sensor	UA/TO-92 (flat)	5.83	3.46	2.05
MLX90247ESF-B-ND	Thermopile with On-Chip PTC Thermistor	TO-39	12.16	7.20	4.28
MLX90247ESF-C-ND	Thermopile with Off-Chip 100k NTC Thermistor	TO-39	13.22	7.84	4.65
MLX90601EZA-B-ND	Infrared Thermometer Module, Analog Output	—	52.66	31.15	18.44
MLX90601EZA-C-ND	Infrared Thermometer Module, SPI Serial Output, 10bit Resolution	—	52.66	31.15	18.44
MLX90601EZA-D-ND	Infrared Thermometer Module, PWM Output, 10bit Resolution	—	52.66	31.15	18.44
MLX90308LDF-ND	Programmable Sensor Interface	16-SOIC	21.12	12.51	7.43
MLX90314LDF-ND	High Gain Programmable Sensor Interface	16-SOIC	21.12	12.51	7.43
DK90308-ND	Demo Kit for MLX90308 Sensor Interface with SOIC Socket, Serial Interface Datasheet and Programming Manual (diskette), Software, and (5) 90308 Samples	—	100.00	—	—
DK90314-ND	Demo Kit for MLX90314 Sensor Interface with SOIC Socket, Serial Interface Datasheet and Programming Manual (diskette), Software, and (5) 90314 Samples	—	100.00	—	—
EVB90601-ND	Evaluation Board for MLX90601 Infrared Thermometer Module, Supply, Serial Cable, Manual and Software	—	100.00	—	—

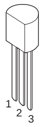
SHARP MICROELECTRONICS OF THE AMERICAS MEMORY

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
LH5116-10	425-1828-5-ND	16K Slow SRAM, 5V, 100ns	24-Dip	4.38	3.07	2.63
LH5116NA-10	425-1829-5-ND	16K Slow SRAM, 5V, 100ns	24-SOP	4.38	3.07	2.63
LH5164A-10L	425-1830-5-ND	64K Slow SRAM, 5V, 100ns	28-Dip	5.00	3.50	3.00
LH5164AHN-10L	425-1832-5-ND	64K Slow SRAM, 5V, 100ns	28-SOP	5.00	3.50	3.00
LH5164AN-10L	425-1831-5-ND	64K Slow SRAM, 5V, 100ns	28-SOP	5.00	3.50	3.00
LH52256C-70LL	425-1833-5-ND	256K Slow SRAM, 5V, 70ns	28-Dip	6.25	4.38	3.75
LH52256CN-70LL	425-1834-5-ND	256K Slow SRAM, 5V, 70ns	28-SOP	6.25	4.38	3.75
LH28F008SCT-L85	425-1835-ND	8M Symmetrical Block Flash, 3.3V or 5.0V, 85ns	40-TSOP	14.04	11.00	10.56
LH28F008SAT-85	425-1836-ND	8M Symmetrical Block Flash, 5.0V, 85ns	40-TSOP	14.04	11.00	10.56
LH28F016SCT-L95	425-1837-ND	16M Symmetrical Block Flash, 3.3V or 5.0V, 95ns	40-TSOP	29.36	23.00	22.08
LH28F160S3HNS-L10	425-1842-ND	16M Symmetrical Block Flash, 3.3V, 100ns	56-SSOP	32.66	25.58	24.56
LH28F160S3HT-L10A	425-1839-ND	16M Symmetrical Block Flash, 3.3V, 100ns	56-TSOP	32.66	25.58	24.56
LH28F160S3T-L10A	425-1838-ND	16M Symmetrical Block Flash, 3.3V, 100ns	56-TSOP	29.36	23.00	22.08
LH28F160S5HNS-L70	425-1843-ND	16M Symmetrical Block Flash, 5.0V, 70ns	56-SSOP	32.66	25.58	24.56
LH28F160S5HT-L70	425-1841-ND	16M Symmetrical Block Flash, 5.0V, 70ns	56-TSOP	32.66	25.58	24.56
LH28F160S5T-L70A	425-1840-ND	16M Symmetrical Block Flash, 5.0V, 70ns	56-TSOP	29.36	23.00	22.08
LH28F320SKTD-L70	425-1848-ND	32M Symmetrical Block Flash, 3.3V or 5.0V, 70ns	56-TSOP	77.23	60.50	58.08
LH28F320S3HNS-L11	425-1845-ND	32M Symmetrical Block Flash, 3.3V, 110ns	56-SSOP	85.43	66.92	64.24
LH28F320S3NS-L11	425-1844-ND	32M Symmetrical Block Flash, 3.3V, 110ns	56-SSOP	77.23	60.50	58.08
LH28F320S5HNS-L90	425-1847-ND	32M Symmetrical Block Flash, 5.0V, 90ns	56-SSOP	85.43	66.92	64.24
LH28F320S5NS-L90	425-1846-ND	32M Symmetrical Block Flash, 5.0V, 90ns	56-SSOP	77.23	60.50	58.08
LH28F800BJE-PTTL90	425-1821-ND	8M Top Boot Block Flash, 3.3V, 90ns	48-TSOP	5.78	5.12	4.62
LH28F800BJHE-PTTL90	425-1822-ND	8M Top Boot Block Flash, 3.3V, 90ns	48-TSOP	5.78	5.12	4.62
LH28F160BJHE-TTL90	425-1824-ND	16M Top Boot Block Flash, 3.3V, 90ns	48-TSOP	17.81	15.79	14.25
LH28F160BJE-BTL90	425-1823-ND	16M Bottom Boot Block Flash, 3.3V, 90ns	48-TSOP	17.71	15.69	14.17
LH28F320BJHE-PTTL90	425-1826-ND	32M Top Boot Block Flash, 3.3V, 90ns	48-TSOP	33.21	29.41	26.57
LH28F320BJE-PBTL90	425-1825-ND	32M Bottom Boot Block Flash, 3.3V, 90ns	48-TSOP	33.01	29.23	26.40
LH28F640BFHE-PBTL90	425-1827-ND	64M Bottom Boot Block Flash, 3.3V, 90ns	48-TSOP	28.18	24.96	22.54

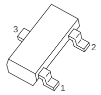
MICROCHIP Microcontroller Supervisors

Microchip's new MCP1XX family of microcontroller supervisor products can be used for power on reset and brown out detection. Select from seven reset trip points and three output options—open drain, open drain with 5K ohm pull-up, and CMOS push-pull options are available. These parts will reset within the Reset Voltage Range and will operate down to VDD = 1 Volt.

TO-92



SOT-23 Top View



Offered in both TO-92 and SOT-23 packages in most pin-out configurations.

Configuration	Package	Pin Out 1	Pin Out 2	Pin Out 3
A	TO-92	OUT	VDD	VSS
B	SOT-23	VSS	OUT	VDD
C	SOT-23	OUT	VDD	VSS

Reset Out	Reset Voltage Min.	Reset Voltage Max.	Pkg.	Conf.	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100
CMOS Push-Pull Active Low								
Low	4.60	4.85	TO-92	A	MCP100-485DI/TO-ND	.48	8.50	31.00
Low	4.35	4.60	TO-92	A	MCP100-460DI/TO-ND	.48	8.50	31.00
Low	4.25	4.50	TO-92	A	MCP100-450DI/TO-ND	.48	8.50	31.00
Low	3.00	3.15	TO-92	A	MCP100-315DI/TO-ND	.48	8.50	31.00
Low	2.85	3.00	TO-92	A	MCP100-300DI/TO-ND	.48	8.50	31.00
Low	2.55	2.70	TO-92	A	MCP100-270DI/TO-ND	.48	8.50	31.00
CMOS Push-Pull Active High								
High	4.60	4.85	TO-92	A	MCP101-485DI/TO-ND	.48	8.50	31.00
High	4.50	4.75	TO-92	A	MCP101-475DI/TO-ND	.48	8.50	31.00
High	4.35	4.60	TO-92	A	MCP101-460DI/TO-ND	.48	8.50	31.00
High	4.25	4.50	TO-92	A	MCP101-450DI/TO-ND	.48	8.50	31.00
High	3.00	3.15	TO-92	A	MCP101-315DI/TO-ND	.48	8.50	31.00
High	2.85	3.00	TO-92	A	MCP101-300DI/TO-ND	.48	8.50	31.00
High	2.55	2.70	TO-92	A	MCP101-270DI/TO-ND	.48	8.50	31.00
N-Channel Open Drain								
Low	4.60	4.85	TO-92	A	MCP120-485DI/TO-ND	.53	9.50	35.00
Low	4.50	4.75	TO-92	A	MCP120-475DI/TO-ND	.53	9.50	35.00
Low	4.35	4.60	TO-92	A	MCP120-460DI/TO-ND	.53	9.50	35.00
Low	4.25	4.50	TO-92	A	MCP120-450DI/TO-ND	.53	9.50	35.00
Low	2.85	3.00	TO-92	A	MCP120-300DI/TO-ND	.53	9.50	35.00
Low	2.55	2.70	TO-92	A	MCP120-270DI/TO-ND	.53	9.50	35.00
N-Channel Open Drain with Internal 5K Pull Up								
Low	4.60	4.85	TO-92	A	MCP130-485DI/TO-ND	.53	9.50	35.00
Low	4.50	4.75	TO-92	A	MCP130-475DI/TO-ND	.53	9.50	35.00
Low	4.35	4.60	TO-92	A	MCP130-460DI/TO-ND	.53	9.50	35.00
Low	4.25	4.50	TO-92	A	MCP130-450DI/TO-ND	.53	9.50	35.00
Low	3.00	3.15	TO-92	A	MCP130-315DI/TO-ND	.53	9.50	35.00
Low	2.85	3.00	TO-92	A	MCP130-300DI/TO-ND	.53	9.50	35.00
Low	2.55	2.70	TO-92	A	MCP130-270DI/TO-ND	.53	9.50	35.00

Reset Out	Reset Voltage Min.	Reset Voltage Max.	Pkg.	Conf.	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	T & R Pricing 3,000
CMOS Push-Pull Active Low										
Low	4.60	4.85	SOT-23	B	MCP809T-485I/TTCT-ND	.70	14.00	49.00	MCP809T-485I/TTTR-ND	410.00/M
Low	4.50	4.75	SOT-23	B	MCP809T-475I/TTCT-ND	.70	14.00	49.00	MCP809T-475I/TTTR-ND	410.00/M
Low	4.35	4.60	SOT-23	B	MCP809T-460I/TTCT-ND	.70	14.00	49.00	MCP809T-460I/TTTR-ND	410.00/M
Low	4.25	4.50	SOT-23	B	MCP809T-450I/TTCT-ND	.70	14.00	49.00	MCP809T-450I/TTTR-ND	410.00/M
Low	3.00	3.15	SOT-23	B	MCP809T-315I/TTCT-ND	.70	14.00	49.00	MCP809T-315I/TTTR-ND	410.00/M
Low	2.85	3.00	SOT-23	B	MCP809T-300I/TTCT-ND	.70	14.00	49.00	MCP809T-300I/TTTR-ND	410.00/M
Low	2.55	2.70	SOT -23	B	MCP809T-270I/TTCT-ND	.70	14.00	49.00	MCP809T-270I/TTTR-ND	410.00/M
CMOS Push-Pull Active High										
High	4.60	4.85	SOT-23	B	MCP810T-485I/TTCT-ND	.70	14.00	49.00	MCP810T-485I/TTTR-ND	410.00/M
High	4.50	4.75	SOT-23	B	MCP810T-475I/TTCT-ND	.70	14.00	49.00	MCP810T-475I/TTTR-ND	410.00/M
High	4.35	4.60	SOT-23	B	MCP810T-460I/TTCT-ND	.70	14.00	49.00	MCP810T-460I/TTTR-ND	410.00/M
High	4.25	4.50	SOT-23	B	MCP810T-450I/TTCT-ND	.70	14.00	49.00	MCP810T-450I/TTTR-ND	410.00/M
High	3.00	3.15	SOT-23	B	MCP810T-315I/TTCT-ND	.70	14.00	49.00	MCP810T-315I/TTTR-ND	410.00/M
High	2.85	3.00	SOT-23	B	MCP810T-300I/TTCT-ND	.70	14.00	49.00	MCP810T-300I/TTTR-ND	410.00/M
High	2.55	2.70	SOT-23	B	MCP810T-270I/TTCT-ND	.70	14.00	49.00	MCP810T-270I/TTTR-ND	410.00/M
N-Channel Open Drain										
Low	4.60	4.85	SOT-23	C	MCP120T-485I/TTCT-ND	.53	10.50	36.75	MCP120T-485I/TTTR-ND	310.00/M
Low	4.50	4.75	SOT-23	C	MCP120T-475I/TTCT-ND	.53	10.50	36.75	MCP120T-475I/TTTR-ND	310.00/M
Low	4.35	4.60	SOT-23	C	MCP120T-460I/TTCT-ND	.53	10.50	36.75	MCP120T-460I/TTTR-ND	310.00/M
Low	4.25	4.50	SOT-23	C	MCP120T-450I/TTCT-ND	.53	10.50	36.75	MCP120T-450I/TTTR-ND	310.00/M
Low	3.00	3.15	SOT-23	C	MCP120T-315I/TTCT-ND	.53	10.50	36.75	MCP120T-315I/TTTR-ND	310.00/M
Low	2.85	3.00	SOT-23	C	MCP120T-300I/TTCT-ND	.53	10.50	36.75	MCP120T-300I/TTTR-ND	310.00/M
Low	2.55	2.70	SOT-23	C	MCP120T-270I/TTCT-ND	.53	10.50	36.75	MCP120T-270I/TTTR-ND	310.00/M
N-Channel Open Drain with Internal 5K Pull Up										
Low	4.60	4.85	SOT-23	C	MCP130T-485I/TTCT-ND	.53	10.50	36.75	MCP130T-485I/TTTR-ND	310.00/M
Low	4.50	4.75	SOT-23	C	MCP130T-475I/TTCT-ND	.53	10.50	36.75	MCP130T-475I/TTTR-ND	310.00/M
Low	4.35	4.60	SOT-23	C	MCP130T-460I/TTCT-ND	.53	10.50	36.75	MCP130T-460I/TTTR-ND	310.00/M
Low	4.25	4.50	SOT-23	C	MCP130T-450I/TTCT-ND	.53	10.50	36.75	MCP130T-450I/TTTR-ND	310.00/M
Low	3.00	3.15	SOT-23	C	MCP130T-315I/TTCT-ND	.53	10.50	36.75	MCP130T-315I/TTTR-ND	310.00/M
Low	2.85	3.00	SOT-23	C	MCP130T-300I/TTCT-ND	.53	10.50	36.75	MCP130T-300I/TTTR-ND	310.00/M
Low	2.55	2.70	SOT-23	C	MCP130T-270I/TTCT-ND	.53	10.50	36.75	MCP130T-270I/TTTR-ND	310.00/M

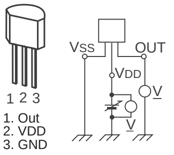
Panasonic® Voltage Detectors

Highly Reliable, Easy-to-Use CMOS LSI Is for Voltage Detection

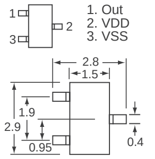
The MN1380 Series is a series of devices with functions for: • Monitoring the power supply voltage supplied to microcomputers and to LSI systems • Generating the RESET signal for carrying out initialization when the power supply is turned ON • Preventing runaway in systems when the power supply voltage fluctuates. Recently, there has been an increase in the number of battery-driven products such as cordless telephones, notebook-type personal computers, etc. In these products, highly accurate monitoring of the power supply voltage is an important point in terms of system operation and data backup. While maintaining the voltage detection precision of similar voltage detection devices so far, the MN1380 Series of devices consumes 1/10 the current. In addition, users can choose from one of three output formats: CMOS output, N-ch open drain and inverted CMOS output.

Item	Symbol	Rating	Unit
Drain Supply Voltage	VDD	7.0	V
Output Voltage	V0	-0.3 ~ VDD + 0.3	V
Operating Ambient Temperature	Ta	-20 ~ +70	°C
Storage Temperature	Tstg	-55 ~ +125	°C
Detection Voltage Hysteresis Max		300	MV

TO-92



Mini-Type TO-236/SC-59A



Output Type	Detection Voltage at Drain Supply (Trigger V) Min	Detection Voltage at Drain Supply (Trigger V) Max	Reset Time (μs) tOH	Reset Time (μs) tOL	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
TO-92								
CMOS	2.0	2.2	3.0	250	MN1381-C-ND	1.02	8.48	67.87
	2.2	2.4	3.0	250	MN1381-E-ND	1.02	8.48	67.87
	2.4	2.6	3.0	115	MN1381-G-ND	1.02	8.48	67.87
	2.6	2.9	3.0	115	MN1381-J-ND	1.02	8.48	67.87
	3.0	3.3	2.0	15	MN1381-L-ND	1.02	8.48	67.87
	3.4	3.7	2.0	15	MN1381-N-ND	1.02	8.48	67.87
	3.8	4.1	2.0	15	MN1381-Q-ND	1.02	8.48	67.87
	4.2	4.5	2.0	15	MN1381-S-ND	1.02	8.48	67.87
	4.6	4.9	—	—	MN1381-U-ND	1.02	8.48	67.87
N Channel Open Drain	2.0	2.2	2.5	160	MN13811-C-ND	1.02	8.48	67.87
	2.2	2.4	2.5	160	MN13811-E-ND	1.02	8.48	67.87
	2.4	2.6	3.0	100	MN13811-G-ND	1.02	8.48	67.87
	3.0	3.3	4.0	35	MN13811-L-ND	1.02	8.48	67.87
	3.4	3.7	4.0	35	MN13811-N-ND	1.02	8.48	67.87
	3.8	4.1	4.0	35	MN13811-Q-ND	1.02	8.48	67.87
	4.2	4.5	4.0	35	MN13811-S-ND	1.02	8.48	67.87
	4.6	4.9	—	—	MN13811-U-ND	1.02	8.48	67.87
CMOS Inverted	2.0	2.2	230	3.0	MN13812-C-ND	1.02	8.48	67.87
	2.2	2.4	230	3.0	MN13812-E-ND	1.02	8.48	67.87
	2.4	2.6	100	3.0	MN13812-G-ND	1.02	8.48	67.87
	3.0	3.3	30	3.0	MN13812-L-ND	1.02	8.48	67.87
	3.4	3.7	30	3.0	MN13812-N-ND	1.02	8.48	67.87
	3.8	4.1	30	3.0	MN13812-Q-ND	1.02	8.48	67.87
	4.2	4.5	30	3.0	MN13812-S-ND	1.02	8.48	67.87
	4.6	4.9	30	3.0	MN13812-U-ND	1.02	8.48	67.87

Output Type	Detection Voltage at Drain Supply (Trigger V) Min	Detection Voltage at Drain Supply (Trigger V) Max	Reset Time (μs) tOH	Reset Time (μs) tOL	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 3,000
MINI-TYPE										
CMOS	2.0	2.2	3.0	250.0	MN1382CPCT-ND	1.02	8.48	67.87	MN1382CPTR-ND	441.00/M
	2.1	2.3	3.0	250.0	MN1382DPCT-ND	1.02	8.48	67.87	MN1382DPTR-ND	441.00/M
	2.2	2.4	3.0	250.0	MN1382EPCT-ND	1.02	8.48	67.87	MN1382EPTR-ND	441.00/M
	2.3	2.5	3.0	250.0	MN1382FPCT-ND	1.02	8.48	67.87	MN1382FPTR-ND	441.00/M
	2.4	2.6	3.0	115.0	MN1382GPCT-ND	1.02	8.48	67.87	MN1382GPTR-ND	441.00/M
	2.5	2.7	3.0	115.0	MN1382HPCT-ND	1.02	8.48	67.87	MN1382HPTR-ND	441.00/M
	2.6	2.9	3.0	115.0	MN1382JPCT-ND	1.02	8.48	67.87	MN1382JPTR-ND	441.00/M
	2.8	3.1	3.0	115.0	MN1382KPCT-ND	1.02	8.48	67.87	MN1382KPTR-ND	441.00/M
	3.0	3.3	2.0	15.0	MN1382LPCT-ND	1.02	8.48	67.87	MN1382LPTR-ND	441.00/M
	3.2	3.5	2.0	15.0	MN1382MPCT-ND	1.02	8.48	67.87	MN1382MPTR-ND	441.00/M
	3.4	3.7	2.0	15.0	MN1382NPCT-ND	1.02	8.48	67.87	MN1382NPTR-ND	441.00/M
	3.6	3.9	2.0	15.0	MN1382PPCT-ND	1.02	8.48	67.87	MN1382PPTR-ND	441.00/M
	3.8	4.1	2.0	15.0	MN1382QPCT-ND	1.02	8.48	67.87	MN1382QPTR-ND	441.00/M
	4.0	4.3	2.0	15.0	MN1382RPCT-ND	1.02	8.48	67.87	MN1382RPTR-ND	441.00/M
	4.2	4.5	2.0	15.0	MN1382SPCT-ND	1.02	8.48	67.87	MN1382SPTR-ND	441.00/M
	4.4	4.7	2.0	15.0	MN1382TPCT-ND	1.02	8.48	67.87	MN1382TPTR-ND	441.00/M
	4.6	4.9	—	—	MN1382UPCT-ND	1.02	8.48	67.87	MN1382UPTR-ND	441.00/M
N Channel Open Drain	2.0	2.2	2.5	160.0	MN13821CPCT-ND	1.02	8.48	67.87	MN13821CPTR-ND	441.00/M
	2.1	2.3	2.5	160.0	MN13821DPCT-ND	1.02	8.48	67.87	MN13821DPTR-ND	441.00/M
	2.2	2.4	2.5	160.0	MN13821EPCT-ND	1.02	8.48	67.87	MN13821EPTR-ND	441.00/M
	2.3	2.5	2.5	160.0	MN13821FPCT-ND	1.02	8.48	67.87	MN13821FPTR-ND	441.00/M
	2.4	2.6	3.0	100.0	MN13821GPCT-ND	1.02	8.48	67.87	MN13821GPTR-ND	441.00/M
	2.5	2.7	3.0	100.0	MN13821HPCT-ND	1.02	8.48	67.87	MN13821HPTR-ND	441.00/M
	2.6	2.9	3.0	100.0	MN13821JPCT-ND	1.02	8.48	67.87	MN13821JPTR-ND	441.00/M
	2.8	3.1	3.0	100.0	MN13821KPCT-ND	1.02	8.48	67.87	MN13821KPTR-ND	441.00/M
	3.0	3.3	4.0	35.0	MN13821LPCT-ND	1.02	8.48	67.87	MN13821LPTR-ND	441.00/M
	3.2	3.5	4.0	35.0	MN13821MPCT-ND	1.02	8.48	67.87	MN13821MPTR-ND	441.00/M
	3.4	3.7	4.0	35.0	MN13821NPCT-ND	1.02	8.48	67.87	MN13821NPTR-ND	441.00/M
	3.6	3.9	4.0	35.0	MN13821PPCT-ND	1.02	8.48	67.87	MN13821PPTR-ND	441.00/M
	3.8	4.1	4.0	35.0	MN13821QPCT-ND	1.02	8.48	67.87	MN13821QPTR-ND	441.00/M
	4.0	4.3	4.0	35.0	MN13821RPCT-ND	1.02	8.48	67.87	MN13821RPTR-ND	441.00/M
	4.2	4.5	4.0	35.0	MN13821SPCT-ND	1.02	8.48	67.87	MN13821SPTR-ND	441.00/M
	4.4	4.7	4.0	35.0	MN13821TPCT-ND	1.02	8.48	67.87	MN13821TPTR-ND	441.00/M
	4.6	4.9	—	—	MN13821UPCT-ND	1.02	8.48	67.87	MN13821UPTR-ND	441.00/M
CMOS Inverted	2.0	2.2	230.0	3.0	MN13822CPCT-ND	1.02	8.48	67.87	MN13822CPTR-ND	441.00/M
	2.1	2.3	230.0	3.0	MN13822DPCT-ND	1.02	8.48	67.87	MN13822DPTR-ND	441.00/M
	2.2	2.4	230.0	3.0	MN13822EPCT-ND	1.02	8.48	67.87	MN13822EPTR-ND	441.00/M
	2.3	2.5	230.0	3.0	MN13822FPCT-ND	1.02	8.48	67.87	MN13822FPTR-ND	441.00/M
	2.4	2.6	100.0	3.0	MN13822GPCT-ND	1.02	8.48	67.87	MN13822GPTR-ND	441.00/M
	2.5	2.7	100.0	3.0	MN13822HPCT-ND	1.02	8.48	67.87	MN13822HPTR-ND	441.00/M
	2.6	2.9	100.0	3.0	MN13822JPCT-ND	1.02	8.48	67.87	MN13822JPTR-ND	441.00/M
	2.8	3.1	100.0	3.0	MN13822KPCT-ND	1.02	8.48	67.87	MN13822KPTR-ND	441.00/M
	3.0	3.3	30.0	3.0	MN13822LPCT-ND	1.02	8.48	67.87	MN13822LPTR-ND	441.00/M
	3.2	3.5	30.0	3.0	MN13822MPCT-ND	1.02	8.48	67.87	MN13822MPTR-ND	441.00/M
	3.4	3.7	30.0	3.0	MN13822NPCT-ND	1.02	8.48	67.87	MN13822NPTR-ND	441.00/M
	3.6	3.9	30.0	3.0	MN13822PPCT-ND	1.02	8.48	67.87	MN13822PPTR-ND	441.00/M
	3.8	4.1	30.0	3.0	MN13822QPCT-ND	1.02	8.48	67.87	MN13822QPTR-ND	441.00/M
	4.0	4.3	30.0	3.0	MN13822RPCT-ND	1.02	8.48	67.87	MN13822RPTR-ND	441.00/M
	4.2	4.5	30.0	3.0	MN13822SPCT-ND	1.02	8.48	67.87	MN13822SPTR-ND	441.00/M
	4.4	4.7	30.0	3.0	MN13822TPCT-ND	1.02	8.48	67.87	MN13822TPTR-ND	441.00/M
	4.6	4.9	—	—	MN13822UPCT-ND	1.02	8.48	67.87	MN13822UPTR-ND	441.00/M

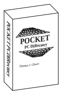
DATA BOOKS

NATIONAL SEMICONDUCTOR

	Digi-Key Part No.	Price Each
1996-1997 COP8 Data Book Contains data on: COP8 family and applications, microwire/plus peripherals, development support and appendices/physical dimensions.	**9280B-ND**	**$18.00**
1995 Data Acquisition Data Book Contains data on: D/A and A/D Converters, voltage ref., sample and hold, temperature sensors, analog switches-multiplexors and active filters.	**9242B-ND**	**$18.00**
1995 Operational Amplifiers Data Book Contains data on: Op amps, buffers, voltage comparators, instrumentation amplifiers, surface mount, appendixes/physical dimensions.	**9243B-ND**	**$17.00**
1993 Packaging Data Book Contains data on: introduction, Hermetic packages, plastic packages, advanced pkg. technology, package reliability considerations, packaging considerations, surface mount considerations and appendix.	**9255B-ND**	**$7.00**
1995 Power ICs Data Book Contains data on: linear, low dropout, and switching volt. regulators, motion control, peripheral drivers, high current switches, surface mount, and appendixes/physical dim.	**9244B-ND**	**$12.00**

POCKET REFERENCE SERIES

	Digi-Key Part No.	Price Each
Pocket PC DIRectory Contains directory information on over 1500 companies involved in PC manufacturing. Includes company names and addresses, phone, fax and world wide web address.	**9273B-ND**	**$8.95**



MISCELLANEOUS

	Digi-Key Part No.	Price Each
Aromat Timer, Counter Data Book	**9278B-ND**	**$2.95**
Aromat Relay Guide Data Book	**9277B-ND**	**$2.95**
Burr-Brown Linear & Mixed Signal Products Data Book	**LI-501-ND**	**$4.94**
ITT Switch Data Book	**9138B-ND**	**$2.95**
Condor Power Engineering Manual	**9288B-ND**	**$2.95**
ECS X-Tal/Oscillator Data Book	**9256B-ND**	**$2.95**
E-Switch Data Book	**9157B-ND**	**$2.95**
Desco ESD Awareness Guide	**16-1013-ND**	**$9.88**
Grayhill Engineering Catalog	**9154B-ND**	**$4.95**
IERC Heatsinks Databook	**9295B-ND**	**$2.50**
1990 Linear Technology Applications Handbook, Vol. I	**9177B-ND**	**$19.95**
1992 Linear Technology Data Book, Vol. II	**9176B-ND**	**$9.95**
1993 Linear Technology Applications Handbook, Vol. II	**9258B-ND**	**$19.95**
1994 Linear Technology Data Book, Vol. III	**9210B-ND**	**$9.95**
1995 Linear Technology Data Book, Vol. IV	**9257B-ND**	**$10.00**
1996 Linear Technology Data Book, Vol. V	**9285B-ND**	**$10.00**
1997 Linear Technology Applications Handbook	**9286B-ND**	**$20.00**
1997 Linear Technology Data Book, Vol. VI	**9294B-ND**	**$12.50**
Linear View CD-ROM Contains Data Sheets and Applications Information.	**LTDS-ND**	**$3.00**
Lumex Master Catalog CD-ROM 3.0	**67-1542-ND**	**$1.95**
Microchip PIC16C7X Series Family Data Book	**9267B-ND**	**$6.95**
Microchip Embedded Control PIC Handbook, Volume 1	**DS00092D-ND**	**$9.95**
Microchip Embedded Control Handbook Update 2000	**DS00711-ND**	**$5.00**
Omron Solid State Timers Catalog	**9249B-ND**	**$1.00**
Omron Photomicrosensors Data Book	**9136B-ND**	**$2.95**
Omron Relay Data Book	**9135B-ND**	**$2.95**
Teccor Thyristor Product Catalog	**9291B-ND**	**$3.00**
Teccor Sidactor Data Book	**9292B-ND**	**$2.25**
Toko Coils and Filters Catalog	**9139B-ND**	**$9.95**
Toko IC Data Book	**9194B-ND**	**$15.00**

Melexis
Microelectronic Integrated Systems

RF Transmitters, Receivers and Evaluation Boards

See: ECS SMT Low Profile Quartz Crystals - CSM-7 Case for Melexis RF Transmitters

RF Transmitters: • Fully integrated • PLL-stabilized VCO • Flexible frequency possible with external varactor • Wide power supply range • High over-all range • High deviation possible for wideband data transmission • FM frequency accuracy • Very low standby current • Adjustable output power range • Adjustable current consumption • Frequency deviation and center frequency • Differential output well-suited for loop antenna • External clock available for m C drive • “Clock Only” mode

RF Receivers: • Single superhet architecure for low external component count • FSK for digital data and FM reception • For analog signal transmission • FM/FSK demodulation with phase-coincidence demodulator • Low current consumption in active mode and very low standby current • Switchable LMA gain for improved dynamic range • RSSI allows signal strength indication and ASK detection.

RF Filter: • Wide cutoff frequency range (0.8 to 22.4 MHz) • Dual-channel architecture produces superior matching and ease of use for quadrature signals • Low power consumption (<105 mA, typical 55 mA from -5V supply; FC = 1 MHz @ 25°C) • Companding design provides higher resolution at lower cutoff frequencies • Single ended or differential input operation possible (AC coupled) • No external components for trimming necessary

Protocol	Pkg.	Frequency (MHz)	Temperature Range	Digi-Key Part No.	Price Each 1	10	25	50
RF Transmitters								
FSK/FM/ASK	16-SSOP	315/433	-40° to 85°C	TH7107EFF-ND	5.60	4.26	3.28	2.53
ASK	8-SOIC	315/433		TH71071EDC-ND	4.54	3.46	2.66	2.05
ASK	8-SOIC	315/433		TH71072EDC-ND	4.54	3.46	2.66	2.05
ASK	8-SOIC	868/915		TH71081EDC-ND	4.54	3.46	2.66	2.05
FSK/FM/ASK	16-SSOP	868/915		TH7108EFF-ND	5.60	4.26	3.28	2.53
RF Receivers								
FSK/FM/ASK	32-LQFP	315/433	-40° to 85°C	TH71101ENE-ND	11.60	8.83	6.80	5.24
	32-LQFP	315/433		TH71102ENE-ND	11.60	8.83	6.80	5.24
	32-LQFP	868/915		TH71111ENE-ND	11.60	8.83	6.80	5.24
	32-LQFP	868/915		TH71112ENE-ND	11.60	8.83	6.80	5.24

Description	Pkg.	Digi-Key Part No.	Price Each 1	10	25	Digi-Key Part No.	T & R Pricing 1,500
RF Filter							
Programmable, Low-Pass Filter	16-SOIC	TH7301EDF-ND	22.71	17.28	13.30	TH7301EDF-TR-ND	5404.00/M

Description	Digi-Key Part No.	Price Each
RF Evaluation Boards for Transmitters (Includes PC Board with Matched Loop Antenna and Transmitter)		
Evaluation Board for TH7107 Transmitter	EVB7107-315F-ND	50.00
Evaluation Board for TH7107 Transmitter	EVB7107-418F-ND *NEW!*	50.00
Evaluation Board for TH7107 Transmitter	EVB7107-433.92F-ND *NEW!*	50.00
Evaluation Board for TH7108 Transmitter	EVB7108-915F-ND *NEW!*	50.00
Evaluation Board for TH7108 Transmitter	EVB7108-868.3F-ND	50.00
RF Evaluation Boards for Receivers (Includes PC Board with Coax Antenna Input and Receiver)		
Evaluation Board for TH71101 Receiver	EVB71101-315F-ND	100.00
Evaluation Board for TH71101 Receiver	EVB71101-418F-ND *NEW!*	100.00
Evaluation Board for TH71101 Receiver	EVB71101-433.92F-ND *NEW!*	100.00
Evaluation Board for TH71102 Receiver	EVB71102-315F-ND	100.00
Evaluation Board for TH71102 Receiver	EVB71102-418F-ND *NEW!*	100.00
Evaluation Board for TH71102 Receiver	EVB71102-433.92F-ND *NEW!*	100.00
Evaluation Board for TH71111 Receiver	EVB71111-868.3F-ND	100.00
Evaluation Board for TH71111 Receiver	EVB71111-915F-ND *NEW!*	100.00
Evaluation Board for TH71112 Receiver	EVB71112-868.3F-ND	100.00
Evaluation Board for TH71112 Receiver	EVB71112-915F-ND *NEW!*	100.00

LINX TECHNOLOGIES
WIRELESS MADE SIMPLE

OEM Modules

FCC Pre-Certified OEM Products

PRECERTIFIED FCC INSTANT RF

All units below are pre-approved with the FCC to allow immediate integration and sale in most OEM product.

Handheld Transmitter: Compact 8-button handheld remote is capable of 100+ feet transmission ranges. The transmission can be decoded using a standard decoder IC, microcontroller, or matching Linx function module. Selectable addressing provides security and allows distinct TX/RX relationships.

Compact Handheld Transmitter: Compact 8-buttons handheld remote is capable of up to 150 feet transmission range. The keypad and labeling can be modified to meet specific customer requirements. Can create up to 1,024 distinct transmitter-receiver relationships.

Long-Range Handheld Transmitter: Compact 8-buttons handled remote is capable of up to 300 + feet transmission range. The keypad and labeling can be modified to meet specific customer requirements. Can create up to 1,024 distinct transmitter-receiver relationships. External antenna attached.

Keyfob Transmitter: This tiny keyfob features outstanding range performance and is configured with 1 to 5 buttons for a variety of OEM applications.

1-4 Position Relay Function Module: Provides 4 latched relay outputs which are capable of switching external AC or DC powered loads up to 5 amps. Selectable addressing.

AC Switch Function Module: Plugs directly into a wall receptacle and is capable of switching devices at loads up to 1800 watts (15 amps) or 1 HP @ 120 VAC.

Decoder Module: Designed for integration onto a OEM’s PCB. Provides eight switched outputs which correspond to the buttons on a command module. Pins on .100 (2.54mm) centers allow direct or socketed connection to a user’s PCB. Integral antenna tilts and swivels.

Fig. 1

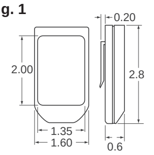


Fig. 2

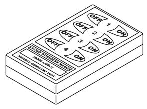


Fig. 3

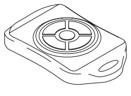


Fig. 4

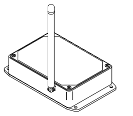


Fig. 5

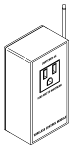


Fig. 6

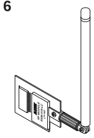


Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
1	Compact Handheld Transmitter	315	CMD-HHCP-315-ND	29.40	26.88	21.95	CMD-HHCP-315
		418	CMD-HHCP-418-ND	29.40	26.88	21.95	CMD-HHCP-418
		433	CMD-HHCP-433-ND	29.40	26.88	21.95	CMD-HHCP-433
	Long-Range Handheld Transmitter	315	CMD-HHLR-315-ND	32.41	29.64	24.95	CMD-HHLR-315
		418	CMD-HHLR-418-ND	32.41	29.64	24.95	CMD-HHLR-418
		433	CMD-HHLR-433-ND	32.41	29.64	24.95	CMD-HHLR-433
2	Handheld Transmitter	315	CMD-HHTX-315-ND	32.03	29.28	24.95	CMD-HHTX-315
		418	CMD-HHTX-418-ND	32.03	29.28	24.95	CMD-HHTX-418
		433	CMD-HHTX-433-ND	32.03	29.28	24.95	CMD-HHTX-433
3	1 to 5 Button FCC Precertified Keyfob Transmitter	315	CMD-KEY5-315-ND	20.60	19.57	18.49	CMD-KEY5-315
		418	CMD-KEY5-418-ND	20.60	19.57	17.95	CMD-KEY5-418
		433	CMD-KEY5-433-ND	20.60	19.57	17.95	CMD-KEY5-433
4	1 to 4 Position Relay Function Module	315	FCTN-RLY4XX-315-ND	59.85	54.72	49.96	FCTN-RLY4XX-315
		418	FCTN-RLY4XX-418-ND	59.85	54.72	49.96	FCTN-RLY4XX-418
		433	FCTN-RLY4XX-433-ND	59.85	54.72	49.96	FCTN-RLY4XX-433
5	AC Switch Function Module - 120 VAC	418	FCTN-WALL-418-1-ND	51.45	47.04	44.95	FCTN-WALL-418-1
6	FCC Precertified Receiver Decoder Module	315	FCTN-DEC1-315-ND	23.63	21.60	17.95	FCTN-DEC1-315
		418	FCTN-DEC1-418-ND	23.63	21.60	17.95	FCTN-DEC1-418
		433	FCTN-DEC1-433-ND	23.63	21.60	17.95	FCTN-DEC1-433

RF Modules / Broadband Amplifiers / Evaluation Kits

Fig. 1

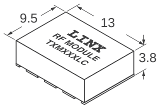


Fig. 2

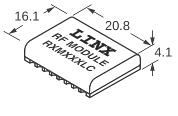


Fig. 3

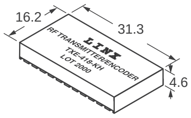


Fig. 4

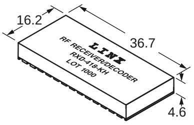


Fig. 5

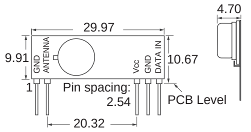


Fig. 6

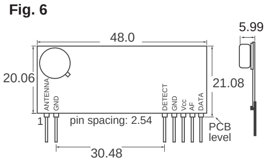


Fig. 7

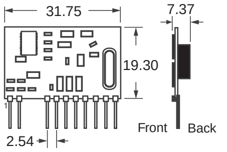


Fig. 8

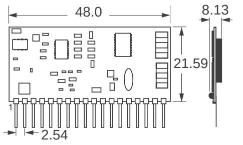


Fig. 9

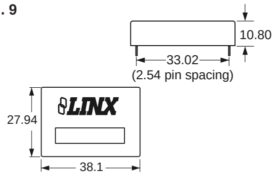


Fig. 10

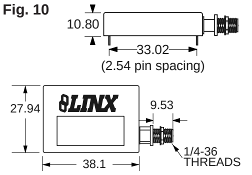


Fig. 11

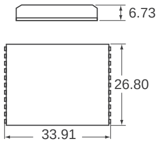


Fig. 12

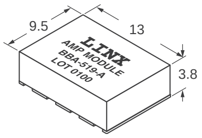


Fig. 13

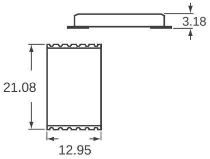
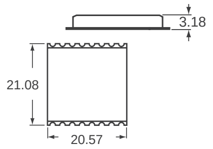


Fig. 14



LC Series - Ultra-Compact Low-Cost RF TX/RX Modules: Operating in the 260-470 MHz band, these tiny RF modules provide a complete and cost-effective solution for the wireless transfer of serial control, and command information over distances in excess of 300 feet. **Transmitter:** • 2.7 - 5.2 VDC range • 1.5 mA avg. • +3 dbm output • 5Kbps max. data rate • Low harmonics • Compact hand or auto place SMD package. **Receiver:** • 2.7 - 5.2 VDC range • Low power consumption, (6mA operational, 300µA sleep) • -97 typical sensitivity @10-5 • 5Kbps max. data rate • Balanced LO for easy certification • Compact hand or auto place SMD package.

KH Series - Transmitter And Receiver Featuring Integrated Encoder/Decoders: Housed in a compact SMD package the KH series combines the popular LC TX/RX with an integrated encoder/decoder pair. The encoder module accepts up to eight parallel inputs. This allows the direct connection of switches or a microcontroller. KH decoder module provides eight switched outputs and nine address lines which correspond to transmitters pin state.

RM Series: Provides a complete TX/RX solution in a compact SIP style module. The RM series utilizes an advanced SAW based design and FM/FSK modulation and operates in the 260-470 band. **Transmitter:** • 5.9-9.0VDC range • 6.0mA avg. • +3 dbm output • 10,000Kbps max. data rate • SIP package. **RM Receiver:** • 4.0-9.0VDC range • 14mA avg. • -103 typical sensitivity • 10,000Kbps max. data rate • SIP package.

HP-II – High-Performance, Low-Cost, RF TX/RX Modules: These modules are designed for the popular 902-928MHz band. The modules offer 8 or 256 selectable channels and are capable of transmitting analog and digital information for distances of p to 1000 ft. (under optimal conditions). Available in SIP or SMT packages. **Transmitter:** • Eight-parallel selectable channels on PO series and 8 parallel, 120 serial on PS series • Synthesized architecture • 2.7-13VDC supply range • Low power (15mA average current): • 0dbm output power • 50Kbps maximum date rate • 100Hz to 25Khz analog bandwidth • CTS • Powerdown control • Compact SIP package **Receiver:** • Eight-parallel selectable channels on PO series and 8 parallel, 120 serial on PS series • Synthesized architecture • 2.7-18VDC supply range • Low power (18mA average current: 50µA powerdown) • 50Kbps maximum date rate • 50Hz-25Khz analog bandwidth • RSSI output • Powerdown control • Compact

SC/PA Series - High-Performance, Low-Cost RF Transceiver: Linx transceiver modules are designed for the cost-effective, bi-directional transfer of wireless information. **SC Transceiver:** • Surface mount or thru-hole • Synthesized architecture • 2.7-16VDC supply range • Low power (15mA Avg.) • Adjustable output power • UART compatible • 33.6Kbps max. data rate • 100Hz to 25Khz analog bandwidth • Integral antenna switch • Powerdown control **SC-PA Version Adds:** • Integrated RP-SMA antenna connection • FCC approved to eliminate additional testing (when used with approved antennas).

BBA Series – Broadband RF Amplifiers: These amplifiers are well suited to a wide range of amplification and buffering applications including extending the range of Linx's own RF modules (when legally appropriate). Housed in a compact SMD package, the hybrid amps are prematched to 50Ω and and require no external RF components. **BBA-322:** • High gain model • 10Mhz-3Ghz broadband operation • +20dB Small Signal gain @ 900MHz • Up to +10 (10mW) Linear output power • 3.8dB noise figure • Operates from a single supply. **BBA-519:** • High output model • 10Mhz-4Ghz broadband operation • +18dB Small Signal gain @ 900MHz • Up to +17 (50mW) linear output power • 4.8dB noise figure • Operates from a single supply

ES Series: Housed in a tiny SMD package, the ES Series utilizes an advanced FM/FSK-based synthesized architecture to provide superior performance and noise immunity when compared to AM/OOK solutions. An outstanding 56Kbps maximum data rate and wide-range analog capability make the ES Series equally at home with digital data or analog sources such as audio. A host of useful features including RSSI, PDN, audio reference, LVL ADJ, low-voltage detect, and a microprocessor clock source are provided. Operates at 916.48MHz which in North America allows an unlimited variety of applications indlucing data links, audio links, process and status control, home and industrial automation, security, remote control/command, and monitoring. Like all Linx modules, the ES Series requires no tuning or external RF components (except an antenna). Audio 20Hz-28KHz, very low current for long life in battery applications. **Transmitter:** • Supply Voltage: 2.1-4V • Current: 6.5-7.5mA • 0dbm output power • Sleep: 90µA. **Receiver:** • Supply Voltage: 4.5-5.5V • Current: 5.5-6.5mA • Sleep: 50µA

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each			Linx Part No.
				1	25	100	
LC Series							
1	Transmitter	315	TXM-315-LC-ND	6.90	6.31	5.60	TXM-315-LC
		418	TXM-418-LC-ND	6.90	6.31	5.60	TXM-418-LC
		433	TXM-433-LC-ND	6.90	6.31	5.60	TXM-433-LC
2	Receiver	315	RXM-315-LC-S-ND	13.79	12.61	11.25	RXM-315-LC-S
		418	RXM-418-LC-S-ND	13.79	12.61	11.25	RXM-418-LC-S
		433	RXM-433-LC-S-ND	13.79	12.61	11.25	RXM-433-LC-S
KH Series							
3	Transmitter	315	TXE-315-KH-ND	9.98	9.12	7.80	TXE-315-KH
		418	TXE-418-KH-ND	9.98	9.12	7.80	TXE-418-KH
		433	TXE-433-KH-ND	9.98	9.12	7.80	TXE-433-KH
4	Receiver	315	RXD-315-KH-ND	15.93	14.56	12.75	RXD-315-KH
		418	RXD-418-KH-ND	15.93	14.56	12.75	RXD-418-KH
		433	RXD-433-KH-ND	15.93	14.56	12.75	RXD-433-KH
RM Series							
5	Transmitter	418	TXM-418-RM-ND	22.45	20.53	16.21	TXM-418-RM
		433	TXM-433-RM-ND	22.45	20.53	16.21	TXM-433-RM
6	Receiver	418	RXM-418-RM-ND	36.66	33.52	28.31	RXM-418-RM
		433	RXM-433-RM-ND	36.66	33.52	28.31	RXM-433-RM
HPII Series							
7	Transmitter 8 Channel	900	TXM-900-HP-II-ND	31.29	28.61	23.81	TXM-900-HP-II
8	Receiver 8 Channel	900	RXM-900-HP-II-ND	46.90	42.88	34.88	RXM-900-HP-II
SC/SC-PA Series							
9	SC Transceiver	916	TR-916-SC-P-ND	44.80	40.96	39.61	TR-916-SC-P
10	FCC Precertified Transceiver	916	TR-916-SC-PA-ND	48.30	46.92	46.31	TR-916-SC-PA
11	RF Transceiver	916	TR-916-SC-S-ND	42.88	39.20	38.41	TR-916-SC-C
BBA Series							
12	High-Gain Broadband RF Amp.	10~3,000	BBA-322-A-ND	14.80	14.06	13.50	BBA-322-A
	High-Power Broadband RF Amp.	10~4,000	BBA-519-A-ND	15.00	14.25	13.95	BBA-519-A
ES Series							
13	Transmitter	916	TXM-916-ES-ND	13.84	12.66	10.87	TXM-916-ES
14	Receiver	916	RXM-916-ES-ND	18.48	16.90	13.95	RXM-916-ES

Evaluation Kits

These kits provide the most complete opportunity to evaluate the Linx module series of your choice and then begin the integration of it into your own design.

Basic Evaluation Kit:

This kit is a quick way to evaluate the field performance of Linx products. The kit does not allow for the level of testing and interface possible with Master Kits but provides a cost-effective starting point.

Basic Kits Contain: • 2 Transmitter Modules & 2 Receiver Modules (or 2 Transceiver Modules) • 2 Antennas • 2 Fully Assembled Evaluation Boards w/batteries • Manuals • Part 2 + Part 15 Guidelines

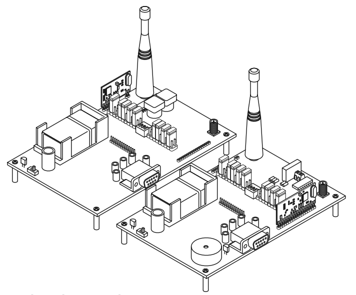
EVAL-418-KEY5-ND: • 1 Antenna • 2 Keyfobs • 1 Evaluation Board • 2 KH Rec. Modules w/batteries • Manuals • Part 2 + Part 15 Guidelines

Master Evaluation/Development System:

The kits not only allow evaluation of the module series you have chosen, but also speeds the development of your own design via on-board prototyping area and breakout headers.

Master Kits Contain: • 2 Transmitter Modules & 2 Receiver Modules • 2 Antennas • 2 9-Volt Batteries • 2 Fully Assembled Evaluation Boards • Manuals and FCC Guidelines

Description	MHz	Digi-Key Part No.	Price Each	Linx Part No.
Basic Evaluation Kits				
LC Series	315	EVAL-315-LC-S-ND	139.00	EVAL-315-S-LC
	418	EVAL-418-LC-S-ND	139.00	EVAL-418-LC-S
	433	EVAL-433-LC-S-ND	139.00	EVAL-433-LC-S
SC Series	916	EVAL-916-SC-P-ND	198.54	EVAL-916-SC
SC-PA Series	916	EVAL-916-SC-PA-ND	198.54	EVAL-916-SC-PA
KH Series	315	EVAL-315-KH-ND	149.00	EVAL-315-KH
	418	EVAL-418-KH-ND	149.00	EVAL-418-KH
	433	EVAL-433-KH-ND	149.00	EVAL-433-KH
ES Series	916	EVAL-916-ES-ND	183.66	EVAL-916-ES
Keyfob Series	418	EVAL-418-KEY5-ND	113.01	EVAL-418-KEYS
HHCP Series	418	EVAL-418-CP-ND	129.00	EVAL-418-CP
HHLR Series	418	EVAL-418-LR-ND	129.00	EVAL-418-LR
Master Evaluation Kits				
RM Series	418	MDEV-418-RM-ND	249.00	MDEV-418-RM
	433	MDEV-433-RM-ND	249.00	MDEV-433-RM
HP Series	900	MDEV-900-HP-II-ND	298.54	MDEV-900-HP-II
ES Series	916	MDEV-916-ES-ND	299.57	MDEV-916-ES
SC-P Series	916	MDEV-916-SC-P-ND	299.57	MDEV-916-SC-P
SC-S Series	916	MDEV-916-SC-S-ND	299.57	MDEV-916-SC-S



HP Series Shown - Kit contents varies by part #.

Antennas / Connectors

Fig. 1

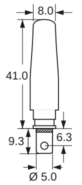


Fig. 2

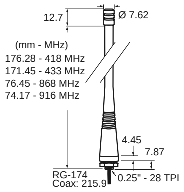


Fig. 3

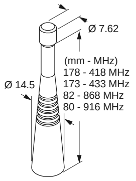


Fig. 4

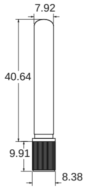


Fig. 5

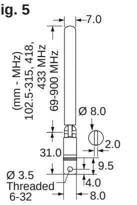


Fig. 6

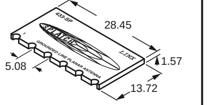


Fig. 7

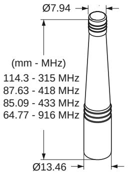


Fig. 8

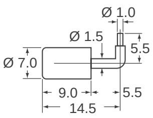


Fig. 9

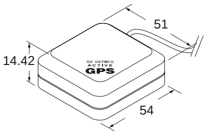


Fig. 10

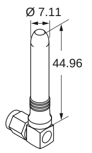


Fig. 11

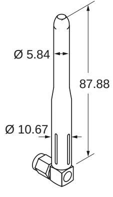


Fig. 12

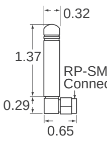


Fig. 13

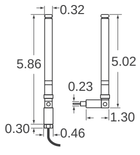
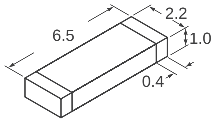


Fig. 14 *NEW!*



Antennas are a critical and often neglected factor in determining the range and reliability of any wireless link. Linx antennas are ideal for achieving maximum performance and cost efficiency from most discrete or modular designs. All antennas are designed to meet FCC and international standards.

LP Series: LP series antennas are low-cost, reduced height permanently attached 1/4-wave whips. They are ideal for applications requiring a rugged, cosmetically attractive, yet cost-effective antenna solution. The antennas are easily secured directly to a user's PCB via a single screw.

PW Series: Designed for permanent attachment, the PW series of 1/4-wave whip antenna is designed to offer outstanding performance in a rugged, cost-effective Part 15-compliant package. The antenna is attached by securing its base through a 1/4" hole in the product's package. The antenna is fed through the base via RG-174 (7" standard length) coax which may be soldered directly to a PCB or attached via a connector.

CW Series: The CW series antennas features an FCC Part 15-compliant Reverse Polarity SMA connector allowing for easy field replacement. These antennas deliver outstanding performance in a rugged and cosmetically attractive package.

RH Series - Reduced Height: Significantly smaller than our larger whips, the RH series is ideally suited for products where cosmetic or functional requirements dictate a compact, aesthetically pleasing antenna.

RA Series: The RA series offers maximum mounting and orientation flexibility in a cost-effective reduced height package. The antenna's innovative base allows a wide range of horizontal and vertical motions which enhances versatility for both the designer and the customer. The antenna mounts quickly to a PCB via a single screw and meets all Part 15 Requirements.

SP Series - The "Splatch": The Splatch uses a grounded line technique to extract outstanding performance from a tiny SMT element. Unlike many compact antennas the Splatch is highly immune to proximity effects making it an ideal choice for hand-held applications for remote controls, pagers, and alert devices. This unique antenna is designed for hand or reflow mounting directly to a product's circuit board.

HD Series - Reduced Height: This reduced height 1/4-wave antenna is ready for years of abuse thanks to a highly flexible internal helical which is over-molded with a heavy-duty protective jacket. The HD series is an excellent choice for outdoor application, or for use in adverse environments where the antenna must resist shock, harsh weather, and tampering.

GPS w/SMA Connector: This sleekly housed active GPS antenna sets a new standard of value and performance. The antenna operates from 2.5 ~ 5.5 volts and consumes as little as 4mA. The unit's rugged housing is fully weatherized and may be mounted via its magnetic base or integral screw receptacles.

RCS Series - Ultra-Compact Right Angle: The RCS series is ideally suited for products requiring an attractive yet compact antenna in a right-angle form factor.

RCL Series - Compact Right Angle: Similar to the RCS series but in a larger form factor. It is useful in products where additional height above the product's case is needed or a slightly wider operational bandwidth is desired.

JJB Antennas: The JJB-Series packs near the performance of a conventional monopole into an incredibly compact 7mm-diameter package. These antennas are ideal for any OEM application requiring a compact, cosmetically attractive, low-cost antenna solution. The antenna features a through-hole feedline which attaches directly to a user's PCB. Internal or external mounting is possible

RCR Antennas: Ideal for products requiring an attractive yet compact antenna in a right-angle form factor. The 1/4-wave antenna features a Part 15-compliant RP-SMA connection which mates with all Linx PCB and chassis RP-SMA connectors. Very low VSWR, Omni Directional, RA, use with plastic or metal enclosures.

PML Antennas: Designed for permanent attachment, PML-Series 1/2-wave whips give outstanding performace in a rugged and cost-effective package. An internal, center-fed element eliminating the need for a groundplane. Can be attached by securing it with a nut or by threading it into a PEM-style insert. The antenna is fed through the base with RG-174 coax cable. Standard cable length is 8.5".

NEW! **CHP Antennas:** One of the world's smallest, high-performance 2.4GHz. Chip Antennas. Ideal for all 2.4GHz applications including Bluetooth, 802.11, home RF, ZigBee and other popular and emerging standards. Uses an advanced multilayer LTCC Technology and a proprietary hybrid spiral element to achieve size and performance charcteristics superior to other designs. Fully compatible with hand and reflow attachment processes.

NEW! **CHP Kit:** Allows for rapid evaluation of Antenna Factor's tiny ANT-2.45-CHP antenna. As one of the smallest and most efficient chip antennas in the world it is ideal for all 2.4 GHz applications including 802.11, Bluetooth, Zigbee, and Home RF. Includes a reference jig which allows for immediate assessment of the antenna's performance and five additional antenna samples for use in a customer's design.

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
1	Permanent Mount Reduced Height 1/4 Wave Whip	315	ANT-315-PW-LP-ND	2.03	1.86	1.79	ANT-315-PW-LP
		418	ANT-418-PW-LP-ND	2.03	1.86	1.79	ANT-418-PW-LP
		433	ANT-433-PW-LP-ND	2.03	1.86	1.79	ANT-433-PW-LP
		916	ANT-916-PW-LP-ND	2.03	1.86	1.79	ANT-916-PW-LP
2	Permanent Mount 1/4 Wave Whip	418	ANT-418-PW-QW-ND	6.83	6.24	5.07	ANT-418-PW-QW
		433	ANT-433-PW-QW-ND	6.70	6.13	4.97	ANT-433-PW-QW
		868	ANT-868-PW-QW-ND	6.58	6.02	4.85	ANT-868-PW-QW
		916	ANT-916-PW-QW-ND	6.44	5.89	4.78	ANT-916-PW-QW
3	RP-SMA 1/4 Wave Whip	418	ANT-418-CW-QW-ND	7.88	7.20	5.74	ANT-418-CW-QW
		433	ANT-433-CW-QW-ND	7.70	7.04	5.61	ANT-433-CW-QW
		868	ANT-868-CW-QW-ND	7.53	6.88	5.48	ANT-868-CW-QW
		916	ANT-916-CW-QW-ND	7.35	6.72	5.36	ANT-916-CW-QW
4	RP-SMA Reduced Height 1/4 Wave Whip	315	ANT-315-CW-RH-ND	6.32	5.78	4.36	ANT-315-CW-RH
		418	ANT-418-CW-RH-ND	7.61	6.96	5.25	ANT-418-CW-RH
		433	ANT-433-CW-RH-ND	7.61	6.96	5.25	ANT-433-CW-RH
		916	ANT-916-CW-RH-ND	6.32	5.78	4.36	ANT-916-CW-RH
5	Permanent Mount Swivel Angle 1/4 Wave Whip	315	ANT-315-PW-RA-ND	3.45	3.11	2.89	ANT-315-PW-RA
		418	ANT-418-PW-RA-ND	3.45	3.11	2.89	ANT-418-PW-RA
		433	ANT-433-PW-RA-ND	3.45	3.11	2.89	ANT-433-PW-RA
		916	ANT-916-PW-RA-ND	3.45	3.11	2.89	ANT-916-PW-RA
6	Planar Antenna (SMT)	315	ANT-315-SP-ND	2.08	1.82	1.75	ANT-315-SP
		418	ANT-418-SP-ND	2.08	1.82	1.75	ANT-418-SP
		433	ANT-433-SP-ND	2.08	1.82	1.75	ANT-433-SP
		868	ANT-868-SP-ND	2.08	1.82	1.75	ANT-868-SP
		916	ANT-916-SP-ND	2.08	1.82	1.75	ANT-916-SP
7	RP-SMA Reduced Height 1/4 Wave Whip	315	ANT-315-CW-HD-ND	7.61	6.96	5.50	ANT-315-CW-HD
		418	ANT-418-CW-HD-ND	7.61	6.96	5.50	ANT-418-CW-HD
		433	ANT-433-CW-HD-ND	7.61	6.96	5.50	ANT-433-CW-HD
		916	ANT-916-CW-HD-ND	7.61	6.96	5.50	ANT-916-CW-HD
8	JJB Permanent Ultra-Miniature	916	ANT-916-JJB-ND	2.00	1.52	1.45	ANT-916-JJB
9	High Performance GPS w/SMA	1575.42	ANT-GPS-SE-SMA-ND	37.54	34.32	27.76	ANT-GPS-SE-SMA
10	RP-SMA Right Angle	916	ANT-916-CW-RCS-ND	6.46	5.91	5.25	ANT-916-CW-RCS
11	1/4 Wave Whip	916	ANT-916-CW-RCL-ND	7.04	6.44	5.50	ANT-916-CW-RCL
12	1/4 Wave Whip RA RP-SMA	916	ANT-916-CW-RCR-ND	6.39	5.84	5.10	ANT-916-CW-RCR
13	1/4 Wave Whip with RG-174 Cable	916	ANT-916-PML-ND	7.61	6.96	5.66	ANT-916-PML
14	Ultra-Compact Chip Antenna	2.45GHz	ANT-2.45-CHPCT-ND *NEW!*	1.51	1.38	1.34	ANT-2.45-CHP
			ANT-2.45-CHPTR-ND *NEW!*	3420.00/3,000			ANT-2.45-CHP
Evaluation Kit for CHP Antenna			AEK-2.45-CHP-ND *NEW!*	18.95	—	—	AEK-2.45-CHP

RP-SMA Connectors for OEM Antennas

Fig. 1

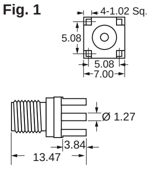


Fig. 2

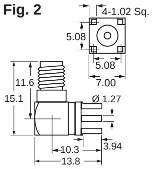


Fig. 3

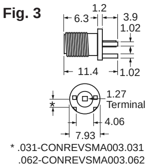


Fig. 4

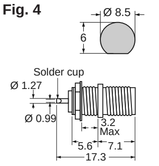


Fig. 5

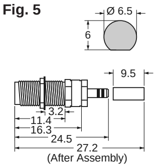


Fig. 6

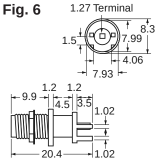


Fig. 7

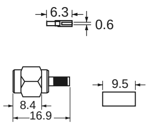


Fig. 8

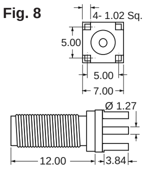
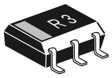
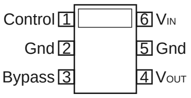


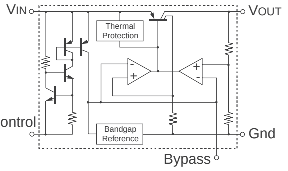
Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	200	Linx Part No.
1	PCB Mount Connector	CONREVSMA001-ND	3.13	2.87	2.21	2.15	CONREVSMA001
2	Connector Right Angle PCB Mount	CONREVSMA002-ND	5.48	5.01	3.87	3.76	CONREVSMA002
3	Card Edge Mount Connector for Board Thickness .031" (.79mm)	CONREVSMA003.031-ND	3.75	3.43	2.65	2.57	CONREVSMA003.031
	Card Edge Mount Connector for Board Thickness .062" (1.57mm)	CONREVSMA003.062-ND	3.75	3.43	2.65	2.57	CONREVSMA003.062
4	Front Mount Bulkhead Receptacle	CONREVSMA004-ND	3.54	3.24	2.50	2.43	CONREVSMA004
5	Bulkhead Crimp Jack-Captive Contact	CONREVSMA005-ND	5.88	5.38	4.16	4.04	CONREVSMA005
5	Bulkhead Crimp Jack-Captive Contact w/8.5" Contact	CONREVSMA005C08.5-ND	7.82	7.16	5.54	5.37	CONREVSMA005-C08.5
6	Card Edge Multi-Mount Connector	CONREVSMA006.062-ND	5.48	5.01	3.87	3.76	CONREVSMA006.062
7	Cable End Connector For RG-174	CONREVSMA007-ND	5.22	4.77	3.69	3.58	CONREVSMA007
8	PCB Mount Connector-Long	CONREVSMA008-ND	3.75	3.43	2.65	2.57	CONREVSMA008

TOKO Low Dropout Voltage Regulators

Series TK112







Features: • High voltage precision at ±2.0% • Active high On/Off control • Very low dropout voltage 80mV at 30mA • Very low noise • Very small SOT-23L package • Internal thermal shutdown • Short circuit protection.

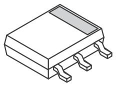
Description: The TK112xxB is a low dropout linear regulator with a built-in electronic switch. The internal switch can be controlled by TTL or CMOS logic levels. The device is in the ON state when the control pin is pulled to a logic high level. An external capacitor can be connected to the noise bypass pin to lower the output noise level to 30µVrms.

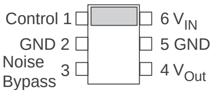
An internal PNP pass transistor is used to achieve a low dropout voltage of 80mV (typ.) at 30mA load current. The TK112xxB has a very low quiescent current of 170µA at no load and 1 mA with a 30mA load. The standby current is typically 100 nA. The internal thermal shutdown circuitry limits the junction temperature to below 150°C. The load current is internally monitored and the device will shutdown in the presence of a short circuit or overcurrent condition at the output.

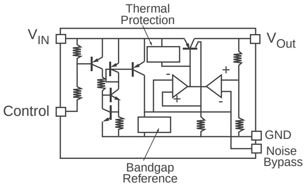
Out-put Volt.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing 1,300*	Toko Part No.
2.5	TK11225CT-ND	1.53	12.80	117.00	760.00/M	TK11225BMCL
2.75	TK11227CT-ND	1.53	12.80	117.00	760.00/M	TK11227BMCL
3.0	TK11230CT-ND	1.53	12.80	117.00	—	TK11230BMCL
3.3	TK11233CT-ND	1.53	12.80	118.00	768.00/M	TK11233BMCL
3.5	TK11235CT-ND	1.53	12.80	117.00	760.00/M	TK11235BMCL
3.7	TK11237CT-ND	1.53	12.80	117.00	760.00/M	TK11237BMCL
4.0	TK11240CT-ND	1.53	12.80	117.00	760.00/M	TK11240BMCL
4.5	TK11245CT-ND	1.53	12.80	117.00	760.00/M	TK11245BMCL
4.75	TK11247CT-ND	1.53	12.80	117.00	760.00/M	TK11247BMCL
5.0	TK11250CT-ND	1.53	12.80	117.00	760.00/M	TK11250BMCL
5.5	TK11255CT-ND	1.53	12.80	117.00	760.00/M	TK11255BMCL
8.0	TK11280CT-ND	1.53	12.80	117.00	760.00/M	TK11280BMCL

* For Tape and Reel Part No., change the CT-ND to TR-ND.

Series TK113







Features: • High voltage precision at ±2.0% • Active low On/Off control • Very low dropout voltage 80mV at 30mA • Very low noise • Very small SOT-23L or SOT-89-5 surface mount packages • Internal thermal shutdown • Short circuit protection.

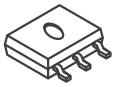
Description: The TK113xxB is a low dropout linear regulator with a built-in electronic switch. The internal switch can be controlled by TTL or CMOS logic levels. The device is in the ON state when the control pin is pulled to a low level. An external capacitor can be connected to the noise bypass pin to lower the output noise level to 30 µVrms.

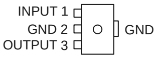
An internal PNP pass transistor is used to achieve a low dropout voltage of 80mV (typ.) at 30mA load current. The TK113xxB has a very low quiescent current of 170µA at no load and 1mA with a 30mA load. The standby current is typically 100nA. The internal thermal shutdown circuitry limits the junction temperature to below 150°C. The load current is internally monitored and the device will shutdown in the presence of a short circuit or overcurrent condition at the output.

Out-put Volt.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing 1,300	Toko Part No.
4.0	TK11340CT-ND	1.53	12.80	117.00	—	TK11340BMCL
4.5	TK11345CT-ND	1.53	12.80	117.00	—	TK11345BMCL
4.8	TK11348CT-ND	1.53	12.80	117.00	760.00/M	TK11348BMCL

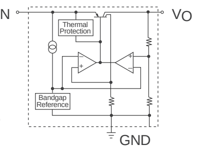
* For Tape and Reel Part No., change the CT-ND to TR-ND.

Series TK116xxU
Linear 3-Terminal Regulator





Block Diagram



Features: • Low dropout voltage • Very low standby current (no load) • Good load regulation • Internal thermal shutdown • Short circuit protection • 3% Output voltage accuracy • Customized versions are available **Description:** The TK116xxU series devices are low power, linear 3-terminal regulators. An internal PNP pass-transistor is used in order to achieve low dropout voltage (typically 160mV at 80mA load current). The regulated output voltages of 3, 5 and 9V are available. The device has very low (400µA) quiescent current with no load and 2mA with 60mA load. An internal thermal shutdown circuit limits the junction temperature to below 150°C. The load current is internally monitored and the device will shutdown in the presence of a short circuit at the output.

Output Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing 1,000	Toko Part No.
3.0	TK11630UCT-ND	1.77	17.20	131.16	—	TK11630UTL
5.0	TK11650UCT-ND	1.77	17.20	131.16	860.00	TK11650UTL

* For Tape and Reel Part No., change the -1 to -2.

WINTEC INDUSTRIES Compact Flash Memory Card

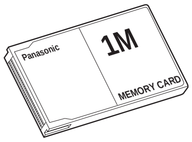
Memory Size (MB)	Digi-Key Part No.	Price Each 1	5	10	Wintec Part No.
32	385-1016-ND	23.87	22.28	20.69	W7B6032M1XG-S7
64	385-1017-ND	28.98	27.05	25.12	W7B6064M1XG-S7
128	385-1018-ND	40.91	38.18	35.46	W7B6128M1XG-S8

Memory Modules Unbuffered

Memory Type	Package Size	Speed (MHz)	Memory Size Mega Bytes	Config. Mega Bits	Features	Digi-Key Part No.	Price Each* 1	5	10	Wintec Part No.
SDRAM	168 DIMM	100	64	8x64	Non-ECC	385-1002-ND	27.27	25.46	23.64	W9Q308647PA-222
	168 DIMM	100	64	8x72	ECC	385-1003-ND	49.29	46.01	42.72	W9Q308727KD-222K
	168 DIMM	100	128	16x64	Non-ECC	385-1004-ND	63.08	58.87	54.67	W9Q316647LB-222
	168 DIMM	100	128	16x72	ECC	385-1005-ND	87.86	82.00	76.15	W9Q316727KD-222K
	168 DIMM	100	256	32x64	Non-ECC	385-1006-ND	117.62	109.78	101.94	W9Q332647LB-222
SDRAM	144 SODIMM	100	64	8x64	Non-ECC	385-1007-ND	27.27	25.46	23.64	W9R308647PA-222
	144 SODIMM	100	128	16x64	Non-ECC	385-1008-ND	63.08	58.87	54.67	W9R316647LB-222
	144 SODIMM	100	256	32x64	Non-ECC	385-1009-ND	65.12	60.78	56.44	W9R332647HA-222
SDRAM	144 SODIMM	133	64	8x64	Non-ECC	385-1010-ND	26.67	24.90	23.12	W9V308647PA-333
	144 SODIMM	133	128	16x64	Non-ECC	385-1011-ND	61.67	57.56	53.45	W9V316647LA-333
	144 SODIMM	133	256	32x64	Non-ECC	385-1012-ND	63.66	59.42	55.18	W9V332647HA-333
SDRAM	168 DIMM	133	64	8x64	Non-ECC	385-1013-ND	26.67	24.90	23.12	W9D308647PA-333
	168 DIMM	133	128	16x64	Non-ECC	385-1014-ND	61.67	57.56	53.45	W9D316647LC-333
	168 DIMM	133	256	32x64	Non-ECC	385-1015-ND	116.67	108.90	101.12	W9D332647LA-333
DDR SDRAM	184 SODIMM	266	128	16x64	Non-ECC	385-1000-ND	46.02	42.96	39.89	W4E216646LA-7.5
	184 SODIMM	266	256	32x64	Non-ECC	385-1001-ND	80.12	74.78	69.44	W4E232646LA-7.5

*Please call 1-800-344-4539 for current pricing.

Panasonic PC Cards



PCMCIA

PCMCIA (Personal Computer Memory Card International Association) has jointly defined standard specifications for an IC memory card system interface. Now the IC memory card can be used as general-purpose media for exchanging data between systems.

SRAM Cards: 68 Pin JEIDA 4.2/PCMCIA Rel 2.1: • Available with or without attribute memory • Tool less replaceable battery (CR2025) • Contains a rechargeable sub-battery which provides data back-up for up to one hour during battery changes. • Type I Card

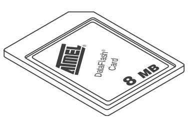
Flash Cards: 68 Pin Series 2 JEIDA 4.2/PCMCIA Rel 2.1: • Uses 8Mbit memory chips • Type I Card

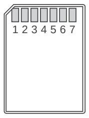
Description	Digi-Key Part No.	Price Each
SRAM Card PCMCIA/JEIDA Standard, 68 Pins		
64Kx8/32Kx16, 200ns, 150mA, 5 Year Backup	BN-064HSR-ND	39.68
128Kx8/64Kx16, 200ns, 150mA, 5 Year Backup	BN-128HSR-ND	45.23
256Kx8/128Kx16, 200ns, 150mA, 5 Year Backup	BN-256HSR-ND	57.15
512Kx8/256Kx16, 200ns, 150mA, 5 Year Backup	BN-512HSR-ND	81.18
1Mx8/512Kx16, 200ns, 150mA, 4 Year Backup	BN-01MHSR-ND	118.71
2Mx8/1Mx16, 200ns, 150mA, 2 Year Backup	BN-02MHSR-ND	193.50
4Mx8/2Mx16, 200ns, 150mA, 1 Year Backup	BN-04MHSR-ND	301.00
SRAM Card with Attribute Memory PCMCIA/JEIDA Standard, 68 Pins		
64Kx8/32Kx16, 200ns, 150mA, 5 Year Backup	BN-064HSRC-ND	43.60
128Kx8/64Kx16, 200ns, 150mA, 5 Year Backup	BN-128HSRC-ND	48.69
256Kx8/128Kx16, 200ns, 150mA, 5 Year Backup	BN-256HSRC-ND	62.09
512Kx8/256Kx16, 200ns, 150mA, 5 Year Backup	BN-512HSRC-ND	84.74
1Mx8/512Kx16, 200ns, 150mA, 4 Year Backup	BN-01MHSRC-ND	120.18
2Mx8/1Mx16, 200ns, 150mA, 2 Year Backup	BN-02MHSRC-ND	186.20
4Mx8/2Mx16, 200ns, 150mA, 1 Year Backup	BN-04MHSRC-ND	306.60
Flash Card, PCMCIA/JEIDA Standard, 68 Pins (Series 2)		
10Mx8/5Mx16, 250ns, 150mA	BN-10MHF3CE-ND	366.80
16Mx8/8Mx16, 250ns, 150mA	BN-16MHF3CE-ND	279.13

TOSHIBA Solid State Floppy Disk Cards

Description	Digi-Key Part No.	Price Each 1	25	100
64M-Bit (8M x 8) 3V NAND Smart Media	TC58V64BDC-ND	10.50	9.80	9.10
256M-Bit (32M x 8) 3V NAND Smart Media	TC58256DC-T051Y-ND	21.00	19.60	18.20
512M-Bit (64M x 8) 3.3V NAND Smart Media	TH58512DC-ND	42.00	39.20	36.40
1Gigabit (128M x 8) 3.3V NAND Smart Media	TH58NS100DC-TO51-ND	70.50	65.80	61.10

ATMEL DataFlash® Card





2.7V only SPI Compatible serial interface DataFlash® Cards. These 7-pin cards are form factor compatible to the MultiMedia Card standard leveraging on a wide range of low cost connectors that are commercially available. Additionally, the DataFlash® Card is pinout compatible to the SPI version of the MMC card. The small form factor and simple interface make the DataFlash® Card ideal for a wide variety of data and program code-storage applications where a removable storage medium is required. Applications range from voice/audio, text or image storage to software applications, system upgrades and software patches. For detailed device specifications, please refer to the corresponding DataFlash® data sheets: • AT45DCB008 reference AT45DB642 • AT45DCB004 reference AT45DB321B • AT45DCB002 reference AT45DB161B

Features: • MultiMedia Card (MMC) Form Factor • Single 2.7V to 3.6V Supply • Serial Peripheral Interface (SPI) Compatible • Clock Frequency: 20MHz max. • Low Power Dissipation: 4mA Active Read Current Typical; 2µA CMOS Standby Current Typical • Industrial Temperature Range

Mega-byte	Digi-Key Part No.	Price Each 1	25	100	Atmel Part No.
2	AT45DCB002-ND	9.68	7.52	6.44	AT45DCB002
4	AT45DCB004-ND	17.09	13.28	11.37	AT45DCB004
8	AT45DCB008-ND	27.95	21.71	18.59	AT45DCB008

IERC A CTS COMPANY

Heat Sinks

International Electronic Research Corporation has helped pioneer the development of semiconductor heat sinks since 1954. Primarily used by all levels of OEM's engaged in the manufacture of commercial and military equipment, IERC maintains stock and support from prototype through production. IERC has prided themselves for their flexible manufacturing, quality products and on-time delivery. Clip-On versions have a built-in clip for attaching device to heat sink without additional hardware, positive locks prevent the semiconductor from sliding out. TO-220 versions will also fit TO-202, TO-218 and TO-126 pkgs. Wattage values listed are at still air conduction only. Moving air will increase this value.

Fig. 1

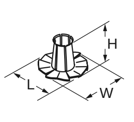


Fig. 2

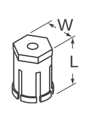


Fig. 3

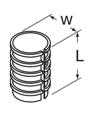


Fig. 4

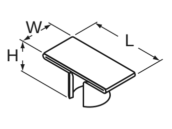


Fig. 5

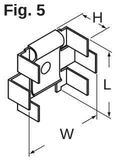


Fig. 6

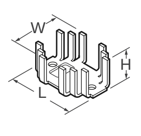


Fig. 7

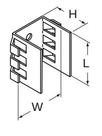


Fig. 8

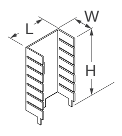


Fig. 9

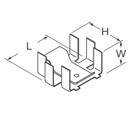


Fig. 10

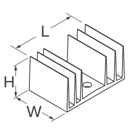


Fig. 11

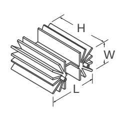


Fig. 12

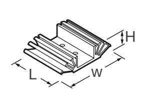


Fig. 13

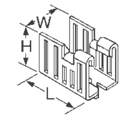


Fig. 14

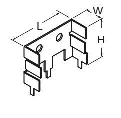


Fig. 15

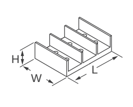


Fig. 16

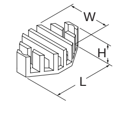


Fig. 17

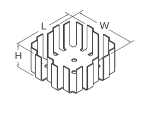


Fig. 18

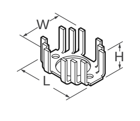


Fig. 19

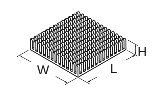


Fig.	Description	Dimensions - Inch (mm) L x W x H	Thermal Res. C/Watt	Digi-Key Part No.	Price Each 1	10	100	IERC Part No.
1	TO-5, Single Fan Top, Black, .5W	.750 x .750 x .250 (19.05 x 19.05 x 6.35)	81.10	294-1122-ND	2.35	2.12	1.65	TXBF-032-025B
1	TO-18, Single Fan Top, .5W	.500 x .500 x .250 (12.70 x 12.70 x 6.35)	150.00	294-1004-ND	1.13	1.02	.79	TXBF-019-025B
2	TO-5, Press-On Mount, w/Hardware, Black, 1W	.380 x .380 x .310 (9.65 x 9.65 x 7.87)	73.17	294-1120-ND	9.82	8.84	6.88	TXB2P-032-037B
2	TO-5, Press-On Mount, Black, 1W	.380 x .380 x .310 (9.65 x 9.65 x 7.87)	73.17	294-1121-ND	1.86	1.67	1.30	TXBE-032-031B
2	TO-8, Press-On Mount, w/out Hardware, Black, 1W	.380 x .380 x .310 (9.65 x 9.65 x 7.87)	73.17	294-1118-ND	9.29	8.37	6.51	TXB2-032-037B
2	TO-18, Press-On Mount, w/Hardware Black, 5W	.220 x .220 x .340 (5.59 x 5.59 x 8.64)	150.26	294-1123-ND	20.13	18.12	14.10	TXP1808B
2	TO-18, Press-On Mount, w/Hardware, Black, .6W	.220 x .220 x .280 (5.59 x 5.59 x 7.11)	150.26	294-1119-ND	9.49	8.54	6.65	TXB2P-019-028B
3	TO-5, Press-On Mount, Black, 2W	.440 x .440 x .500 (11.18 x 11.18 x 12.70)	35.00	294-1105-ND	1.07	.96	.75	7-120-BA
4	TO-5, Press-On Mount, Black, 1W	.700 x .325 x .250 (17.78 x 8.26 x 6.35)	58.00	294-1106-ND	.86	.77	.60	7-175-BA
5	TO-220, Vertical/Horizontal Clip-on Mount, Black, 1.5W	.810 x 1.00 x .310 (20.57 x 25.40 x 7.87)	140.50	294-1115-ND	.70	.63	.49	PSC2-2CB
6	TO-220, Power Horizontal Mount, Black 2W	1.63 x 1.29 x .750 (41.40 x 32.77 x 19.05)	13.60	294-1113-ND	1.66	1.49	1.16	LAT0127B3CB
6	TO-220, Power Horizontal Mount, 8W	1.31 x .90 x .750 (33.27 x 22.86 x 19.05)	17.00	294-1036-ND	.88	.79	.62	LAE66A3CB
7	TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2.5W	.710 x .800 x .500 (18.03 x 20.32 x 12.70)	30.00	294-1107-ND	.66	.60	.47	7-361-BA
7	TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2W	.710 x .800 x .340 (18.03 x 20.32 x 8.64)	38.00	294-1108-ND	.66	.60	.47	7-362-BA
8	TO-220, Vertical Mount, 3W	.750 x .375 x .750 (19.05 x 9.52 x 19.05)	25.00	294-1011-ND	.74	.53	.37	7-195-2-BA
7	TO-220, Horizontal Mount, 3W (No Mounting Hole)	1.09 x .620 x 1.31 (27.69 x 15.75 x 33.27)	30.00	294-1013-ND	.66	.52	.39	7-300-000-BA
8	TO-220, Vertical/Horizontal Mount w/Tabs, Nickel, 3W	1.25 x .880 x .250 (31.75 x 22.35 x 6.35)	25.40	294-1114-ND	2.90	2.62	2.04	PSB2-1ND
8	TO-220, Vertical PC Mount w/Tabs, 5W	1.00 x .500 x 1.18 (25.40 x 12.70 x 29.97)	20.00	294-1042-ND	.63	.57	.44	PB1-36CB
8	TO-220, Vertical PC Mount w/Board Locks	1.00 x .500 x 1.18 (25.40 x 12.70 x 29.97)	28.00	294-1043-ND	1.00	.90	.70	PB1ST-69CB
8	TO-220, Vertical PC Mount w/Tabs, 6W	.880 x .250 x 1.25 (22.35 x 6.35 x 31.75)	25.40	294-1045-ND	.93	.73	.55	PSB2-1CB
9	TO-220, High Efficiency, 3W	.710 x .310 x 1.00 (18.03 x 7.87 x 25.40)	30.00	294-1040-ND	.57	.45	.34	PA2-1CB
9	TO-220, High Efficiency, 4W	.710 x .500 x 1.00 (18.03 x 12.70 x 25.40)	26.80	294-1039-ND	.54	.43	.32	PA1-1CB
9	TO-220, Low Profile Clip-On, w/ Antirotation, Black	.810 x .310 x 1.00 (20.57 x 7.87 x 25.40)	40.50	294-1049-ND	.63	.45	.32	PSC2T-2CB
10	TO-220, Power Vertical Mount, 7W	1.15 x .460 x .750 (29.21 x 11.68 x 19.05)	14.00	294-1034-ND	1.43	1.29	1.00	7-340-1PP-BA
10	TO-220, Power Horizontal Mount, 7W	1.15 x .460 x .750 (29.21 x 11.68 x 19.05)	14.00	294-1035-ND	1.50	1.35	1.05	7-340-3PP-BA
10	Dual TO-220, Universal Mount, 9W	1.50 x 1.15 x .460 (38.10 x 29.21 x 11.68)	7.00	294-1080-ND	1.75	1.58	1.23	7-340-2PP-BA
11	TO-220, Power Vertical Mount w/Pins, 11W	1.38 x .500 x 1.50 (35.05 x 6.35 x 38.10)	13.00	294-1024-ND	4.35	3.92	3.05	7-338-1PP-BA
11	TO-220, Power Vertical Mount w/Pins, 11W	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	11.00	294-1029-ND	3.75	3.38	2.63	7-339-1PP-BA
11	TO-220, Power Vertical Mount w/Pins, 15W	1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80)	5.00	294-1031-ND	5.00	4.50	3.50	7-339-3PP-BA
11	TO-220, Power Vertical Mount w/Pins, 17W	1.38 x .500 x 2.50 (35.05 x 6.35 x 63.50)	4.00	294-1027-ND	4.90	4.41	3.43	7-338-4PP-BA
11	TO-220, Power Vertical Mount w/Pins, 17W	1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50)	4.00	294-1032-ND	5.35	4.82	3.75	7-339-4PP-BA
12	TO-220, Power Horizontal/Vertical Mount, 12W	.750 x 2.00 x .553 (19.05 x 50.80 x 14.05)	9.00	294-1067-ND	1.63	1.47	1.14	7-345-1PP-BA
12	TO-220, Power Horizontal Mount, 12W	.750 x 2.00 x .553 (19.05 x 50.80 x 14.05)	9.00	294-1068-ND	1.35	1.22	.95	7-345-3PP-BA
12	Dual TO-220, Power Universal Mount, 15W	1.50 x 2.00 x .553 (38.10 x 50.80 x 14.05)	4.00	294-1082-ND	2.13	1.92	1.50	7-345-2PP-BA
13	TO-220, Clip-On, Horizontal (Stamped Copper), Tin Finish	.750 x .520 x .510 (19.05 x 13.21 x 12.95)	35.00	294-1053-ND	.72	.65	.51	S702
14	Dual TO-220, Vertical w/Tabs, Black, 4W	1.50 x .500 x 1.18 (38.10 x 12.70 x 29.97)	15.00	294-1117-ND	.83	.75	.59	PSE1-2CB
15	Triple TO-220, Vertical Mount, 7W	1.61 x .750 x .690 (40.89 x 19.05 x 17.53)	9.00	294-1085-ND	4.41	3.97	3.09	7-342-1PP-BA
15	Six TO-220, Horizontal Mount, 15W	1.61 x 1.50 x .690 (40.89 x 38.10 x 17.53)	4.00	294-1086-ND	3.21	2.89	2.25	7-342-2PP-BA
16	TO-3, Power Cap, Spacesaver, 2W	1.56 x 1.06 x .500 (39.62 x 26.92 x 12.70)	32.00	294-1095-ND	4.60	4.14	3.22	7-423-BA
17	TO-3, Power Horizontal Mount, Black, 8W	1.78 x 1.78 x 1.00 (45.21 x 45.21 x 25.40)	7.10	294-1124-ND	2.21	2.00	1.55	UP-TO3-CB
17	TO-3, Power Horizontal Mount, 15W	2.50 x 2.50 x .900 (63.50 x 63.50 x 22.86)	5.40	294-1088-ND	3.69	3.32	2.58	HP1-TO3-CB
18	TO-3, Power Horizontal Mount, 12W	1.63 x 1.29 x 1.25 (41.40 x 32.77 x 31.75)	11.10	294-1092-ND	2.70	2.43	1.89	LA363B5CB
19	Various Semiconductor, Adhesive Backed	.910 x .910 x .355 (23.11 x 23.11 x 9.02)	26.90	294-1097-ND	3.05	2.75	2.14	BDN09-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.01 x 1.01 x .355 (25.65 x 25.65 x 9.02)	26.40	294-1098-ND	3.08	2.77	2.16	BDN10-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.11 x 1.11 x .355 (28.19 x 28.19 x 9.02)	20.90	294-1109-ND	4.32	3.89	3.03	BDN11-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.21 x 1.21 x .355 (30.73 x 30.73 x 9.02)	19.60	294-1099-ND	3.10	2.79	2.17	BDN12-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.21 x 1.21 x .555 (30.73 x 30.73 x 14.10)	16.50	294-1110-ND	4.85	4.37	3.40	BDN12-5CB/A01
19	Various Semiconductor, Adhesive Backed	1.31 x 1.31 x .355 (33.27 x 33.27 x 9.02)	16.10	294-1100-ND	3.13	2.82	2.19	BDN13-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.41 x 1.41 x .355 (35.81 x 35.81 x 9.02)	16.20	294-1101-ND	3.23	2.91	2.26	BDN14-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.51 x 1.51 x .355 (38.35 x 38.35 x 9.02)	15.10	294-1102-ND	3.48	3.13	2.44	BDN15-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.61 x 1.61 x .355 (40.89 x 40.89 x 9.02)	13.50	294-1103-ND	3.75	3.38	2.63	BDN16-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.71 x 1.71 x .355 (43.43 x 43.43 x 9.02)	11.50	294-1111-ND	6.29	5.66	4.41	BDN17-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.81 x 1.81 x .355 (45.97 x 45.97 x 9.02)	10.80	294-1104-ND	4.30	3.87	3.01	BDN18-3CB/A01
19	Various Semiconductor, Adhesive Backed	1.81 x 1.81 x .605 (45.97 x 45.97 x 15.37)	8.10	294-1112-ND	6.76	6.09	4.74	BDN18-6CB/A01

Panasonic

"PGS" (Pyrolytic Graphite Sheet)
Heat Sink Sheet

PGS (Pyrolytic Graphite Sheet) is a heat sink sheet with high thermal conductivity and high flexibility. PGS is made of graphite with a structure that is close to a single crystal. This is achieved by highly-oriented polymer film sheet, a process which has never been implemented before.

Features: • Excellent thermal conductivity: 600 to 800 W/(m.K), twice as high as copper, three times as high as aluminum • Light weight: the same as water (Specific gravity: 1.0 g/cm³), 1/9 that of copper, 1/3 that of aluminum • Flexible sheet, easy to be cut or trimmed and withstands repeated bending • High heat resistance: Stable up to about 400°C even in the air • Low thermal resistance • The main component is carbon. Minimal impurities and outgassing • Excellent heat transferring performance. Heat sink and even distribution of heat

Application Examples: • Notebook personal computers, DVDs, DVCs, mobile phones • Semiconductor manufacturing equipment (Sputtering, Dry etching, Steppers) • Optical communications equipment

General Characteristics of PGS

Items	Characteristics
Thickness	0.1±0.05mm
Density	1.0 g/cm³
Thermal Conductivity (a-b plane)	600 – 800 W/(m.K)
Thermal Resistance	0.4°C/w(10N/cm²)
Electrical Conductivity (a-b plane)	10000 S/cm
Extensional Strength	19.6 Mpa
Expansion Coefficient (a-b plane) (c axis)	9.3×10^{-7} 1/K 32×10^{-6} 1/K
Heat Resistance	400°C
Bending (angle 180, R5)	10000 cycles

Dimensions L x W (mm)	Digi-Key Part No.	Price Each	Panasonic Part No.
125 x 180	P11438-ND	104.48	EYG-S131810
125 x 90	P11439-ND	57.46	EYG-S091310
60 x 90	P11440-ND	29.88	EYG-S060910

Chemtronics®

Heat Sink Grease

For fast heat transfer from components

- Nonflammable
- Noncorrosive
- Silicon
- Will not dry out, harden or melt
- 5 oz. tube
- Meets MIL-C-47113
- Stable from: -0°F to +342°F (-18°C to 172°C)

Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
CT40-5-ND	14.23	12.86	12.00	CT40-5

AAVID THERMALLOY

BGA Heat Sinks

Aavid Thermalloy offers the broadest line of innovative BGA heat sinks - including standard, off-the-shelf solutions to support all of your most demanding applications. All come in the flat base and light weight you require, and deliver proven, long-term reliability

PCB Hole Patterns

Fig. 1

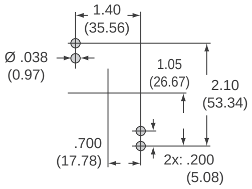


Fig. 2

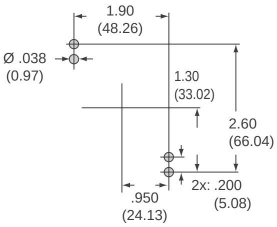


Fig. 3

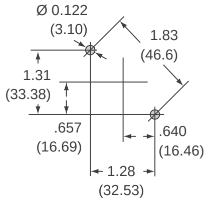


Fig. 4

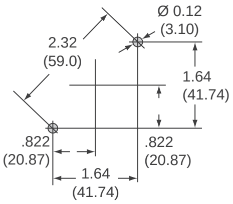
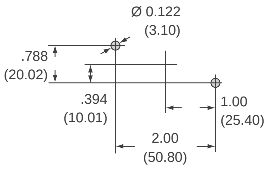


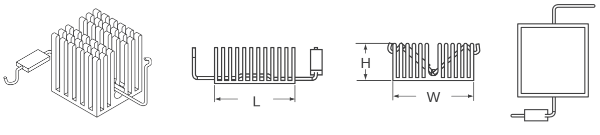
Fig. 5



Solder Anchor Attachment Method

Features and Benefits:
• New unique wire clip design allows for complete re-workability after assembly without damage to the BGA package or PC Board • Minimal PC Board real estate is required for mounting • Solder Anchors provide the most rugged mounting in the industry • Each Heat Sink utilizes a phase change pad as the interface for optimal thermal performance.

Finish: Black Anodize



*Solder Anchors Sold Separately

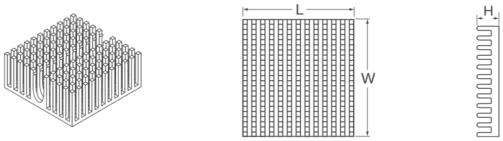
Fig.	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
1	23.0	23.0	25.0	19.7	6.37	HS329-ND	3.25	2.93	2.28	374224B60023
1	27.0	27.0	25.0	16.5	5.47	HS330-ND	3.58	3.22	2.51	374524B60023
2	35.0	35.0	18.0	15.3	5.15	HS326-ND	4.00	3.60	2.80	374724B60024
2	35.0	35.0	25.0	12.0	4.27	HS331-ND	4.25	3.83	2.98	374824B60024
2	40.0	40.0	10.0	20.3	6.46	HS327-ND	4.28	3.85	3.00	374924B60024
2	40.0	40.0	18.0	12.2	4.34	HS328-ND	4.63	4.17	3.24	375024B60024
2	40.0	40.0	25.0	10.3	3.83	HS332-ND	5.05	4.55	3.54	375124B60024
Solder Anchor........						HS334-ND*	.20	.18	.14	D057

*Solder anchors must be soldered to the PCB Prior to attaching the heat sink clip
† = Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ = Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.

Tape Attachment Method

Features and Benefits:
- Tape mounted versions eliminate the need for mounting holes in the PC Board
- These Heat Sinks can be used with either plastic or metal/ceramic BGA Packages
- These Heat Sinks are compatible with Ther-a-grip Tapes

Finish: Black Anodize



Surface	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
Plastic	23.0	23.0	10.0	40.0	11.69	HS316-ND	2.50	2.25	1.75	374024B00035
Plastic	23.0	23.0	18.0	23.4	7.39	HS317-ND	2.48	2.23	1.74	374124B00035
Plastic	27.0	27.0	10.0	30.6	9.35	HS318-ND	2.93	2.64	2.05	374324B00035
Plastic	27.0	27.0	18.0	20.3	6.46	HS319-ND	3.15	2.84	2.21	374424B00035
Plastic	30.0	30.0	9.4	29.4	9.11	HS311-ND	3.15	2.84	2.21	335824B00034
Metal	35.0	35.0	7.0	31.9	9.67	HS313-ND	3.90	3.51	2.73	371824B00032
Plastic	35.0	35.0	7.0	31.9	9.67	HS314-ND	4.00	3.60	2.80	371824B00034
Metal	35.0	35.0	10.0	23.4	7.55	HS320-ND	3.50	3.15	2.45	374624B00032
Plastic	35.0	35.0	10.0	23.4	7.55	HS321-ND	3.93	3.54	2.75	374624B00035
Metal	35.0	35.0	18.0	15.3	5.15	HS322-ND	3.20	2.88	2.24	374724B00032
Plastic	35.0	35.0	18.0	15.3	5.15	HS323-ND	3.60	3.24	2.52	374724B00035
Metal	37.4	37.4	6.0	32.6	9.91	HS315-ND§	3.80	3.42	2.66	373324M00032
Metal	40.0	40.0	10.0	20.3	6.46	HS324-ND	3.64	3.28	2.55	374924B00034
Metal	40.0	40.0	18.0	12.2	4.34	HS325-ND	4.28	3.86	3.00	375024B00032
Metal	40.1	40.0	11.4	18.4	6.02	HS312-ND	4.20	3.78	2.94	364424B00032

† = Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ = Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.
§Finish: Green Anodize

Push Pin Attachment Method

Features and Benefits:
• All Heat Sinks utilize industry standard hole patterns
• Plastic push pins are standard. Consult Aavid Thermalloy for versions available with brass push pins for more rugged applications • Each Heat Sink utilizes a Phase Change Pad as the interface for Optimal Thermal Performance • Minimal diameter holes are necessary for mounting to PC Board

Finish: Black Anodize

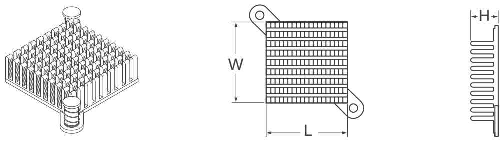


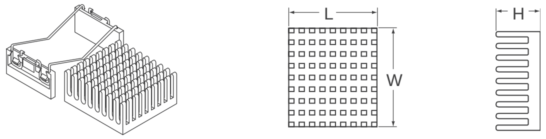
Fig.	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
3	28.5	28.5	10.0	30.6	9.26	HS306-ND	2.38	2.14	1.67	10-6327-01
4	37.4	37.4	6.0	32.6	9.91	HS308-ND§	3.13	2.82	2.19	372924M02000
5	41.4	45.2	11.7	14.2	4.91	HS307-ND	2.93	2.64	2.05	10-L4LB-11

† = Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ = Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.
§Finish: Green Anodize

Clip Attachment Method

Features and Benefits:
- A unique clip eliminates the need for mounting holes in the PC Board
- Each Heat Sink utilizes a Phase Change Pad as the interface for optimal thermal performance
- The clips unique design eliminates the need for thermal tape attachment

Finish: Black Anodize



Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
34.5	31.4	15.6	19.7	6.30	HS309-ND	5.13	4.62	3.59	2519B-EP11-BGS5
38.1	38.0	10.2	22.1	6.94	HS310-ND	5.03	4.53	3.52	2522B-EP04-BGS5

† = Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ = Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.

Aavid's Ultrastick is a unique phase-change thermal interface material that surpasses grease in thermal performance and long-term stability. This solid, silicone free, paraffin based thermal compound changes phase at 60°C, with a concurrent volumetric expansion that fills gaps between the mating surfaces. One cost effective application leaves a thin, film like deposit, providing excellent heat transfer and low interface thermal resistance.

Features:

- Thermal resistance 20% lower than thermal grease, with significant long-term reliability benefits
- Excellent heat transfer properties, consistent at mounting pressures from less than 5 psi to more than 200 psi
- No run-out, migration, dry-out, or flaking that can occur with typical thermal grease
- Non-toxic and inert
- Electrically nonconducive
- Easy to use and dry to the touch after application, reducing labor costs
- Each bar covers approximately 1,000 in^2

HS243-ND................................**$21.88**

Fig. 1

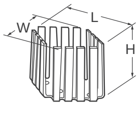


Fig. 2

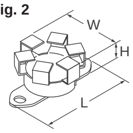


Fig. 3

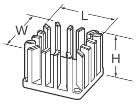


Fig. 4

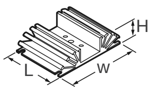


Fig. 5

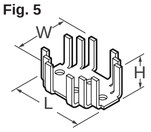


Fig. 6

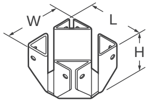


Fig. 7

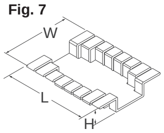


Fig. 8

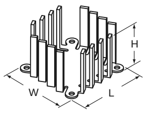


Fig. 9

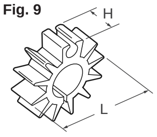


Fig. 10

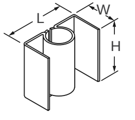


Fig. 11

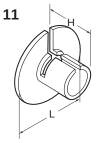


Fig. 12

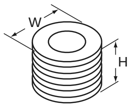


Fig. 13

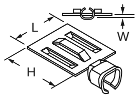


Fig. 14

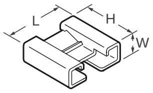


Fig. 15

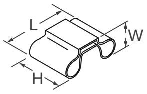


Fig. 16

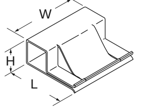


Fig. 17

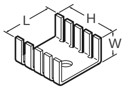


Fig. 18

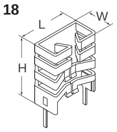


Fig.	Description	Dimensions – Inch (mm) L x W x H	Thermal Resist. °C/W	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
1	TO-3, Compact Heat Sink, 5W, Black	1.88 x 1.40 x .50 (47.75 x 35.56 x 12.70)	11.5	HS148-ND	.80	.72	.56	501303B00000
1	TO-3, Compact Heat Sink, 7W, Black	1.88 x 1.40 x .75 (47.75 x 35.56 x 19.05)	8.3	HS149-ND	.88	.79	.62	501403B00000
1	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x .75 (45.97 x 35.56 x 19.05)	8.3	HS267-ND	2.63	2.37	1.84	501403B00100
1	TO-3, Compact Heat Sink, 8.5W, Black	1.88 x 1.40 x 1.00 (47.75 x 35.56 x 25.40)	6.3	HS248-ND	1.23	1.11	.86	501503B00000
1	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x 1.00 (45.97 x 35.56 x 25.4)	6.3	HS269-ND	2.40	2.16	1.68	501503B00100
1	TO-3, Compact Heat Sink, 9.5W, Black	1.88 x 1.40 x 1.25 (47.75 x 35.56 x 31.75)	5.4	HS110-ND	1.23	1.11	.86	501603B00000
1	TO-3, Compact, 9W, Gold	1.88 x 1.40 x 1.25 (45.97 x 35.56 x 31.75)	5.4	HS270-ND	1.15	1.04	.81	501603C00000
2	TO-3, Expandable Collar Type (Can be used with Fig. 1), Black	1.54 x 1.125 x .87 (39.12 x 28.58 x 22.10)	22.0	HS236-ND	.90	.81	.63	579103B00000
3	TO-3, 25W, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	5.4	HS103-1.25-ND	4.73	4.26	3.31	568303B00000
3	TO-3, 17W, Black	1.81 x 1.81 x .50 (45.97 x 45.97 x 12.70)	12.5	HS103-0.5-ND	7.93	7.14	5.55	568003B00000
3	TO-3, Free/Forced Air No Holes,12W, Black	1.83 x 1.83 x .50 (46.48 x 46.48 x 12.7)	5.4	HS291-ND	4.78	4.30	3.35	568000B00000
3	TO-3, Free or Forced Air Cooling, 12W, Black	1.83 x 1.83 x .75 (46.48 x 46.48 x 19.05)	5.4	HS293-ND	4.73	4.26	3.31	568103B00000
3	TO-3, Free or Forced Air Cooling, 12W, Black	1.81 x 1.81 x 1.00 (45.97 x 45.97 x 25.4)	5.4	HS294-ND	4.73	4.26	3.31	568203B00000
4	TO-3, Power Cooler, 50W, Black	3.00 x 4.125 x 1.00 (76.20 x 104.78 x 25.40)	5.4	HS117-ND	7.00	6.30	4.90	198540B00000
5	TO-3, Space Saver, 6W, Black	1.63 x 1.29 x .75 (41.40 x 32.77 x 19.05)	5.4	HS140-ND	1.50	1.35	1.05	502203B00000
5	TO-3, Space Saver, 8W, Black	1.63 x 1.29 x 1.00 (41.40 x 32.77 x 25.40)	5.4	HS141-ND	2.05	1.85	1.44	502303B00000
5	TO-3, Space Saver, 12W, Black	1.63 x 1.29 x 1.250 (41.40 x 32.77 x 31.75)	5.4	HS142-ND	1.88	1.69	1.32	502403B00000
6	TO-3, Heatsink, Fold-Back Fins, No Holes, 10W, Black	1.83 x 1.83 x 1.00 (16.26 x 16.26 x 25.4)	5.4	HS296-ND	2.83	2.55	1.98	569000B00000
6	TO-3, Fold-Back Fins, 20W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS110-3-ND	1.38	1.24	.97	569003B00000
6	TO-3, Fold-Back Fins, 10W, Gold	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS298-ND	1.35	1.22	.95	569003C00000
7	TO-3, Universal Hole Pattern, Low Profile, Black	2.00 x 1.75 x .375 (50.80 x 44.45 x 9.53)	7.0	HS228-ND	.95	.86	.67	506007B00000
8	TO-3, Slanted Fin, 10W, Black	.75 x 1.88 x .50 (19.05 x 47.75 x 12.7)	3.5	HS260-ND	2.05	1.85	1.44	500103B00000
8	TO-3, Slanted Fin, 12W, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	2.5	HS264-ND	1.98	1.78	1.39	500403B00000
8	TO-3, Slanted Fin, 14W, Black	2.5 x 2.5 x .90 (63.50 x 63.50 x 22.86)	2.2	HS265-ND	2.48	2.23	1.74	500503B00000
9	TO-5, High Performance, 2W, Black	.75 dia x .25 (19.05 dia x 6.35)	56.0	HS101-ND	1.05	.95	.74	323005B00000
9	TO-5, Press-On, 1W, Black	.5 dia x .25 (127 dia x 6.35)	56.0	HS253-ND	1.60	1.44	1.12	320205B00000
9	TO-5, Press-On, High Performance, 1W, Black	.50 dia x .375 (12.70 dia x 9.52)	30.0	HS259-ND	1.20	1.08	.84	326005B00000
10	TO-5, Snap-On Cooler, 1.5W, Black	.83 x .395 x .50 (21.08 x 10.03 x 12.70)	38.0	HS217-ND	.39	.28	.20	578205B00000
10	TO-5, Snap-On Cooler, 2W, Black	.83 x .395 x .75 (21.08 x 10.03 x 19.05)	35.0	HS218-ND	.49	.35	.25	578305B00000
11	TO-5, Dual Fin Press-Fit Heat Sink, Black	.75 dia x .40 (19.05 dia x 10.16)	56.0	HS242-ND	2.38	2.14	1.67	322505B00000
11	TO-5, Press-On, 1.25W, Black	.75 dia x .25 (19.05 dia x 6.35)	40.0	HS257-ND	2.40	2.16	1.68	322605B00000
11	TO-5, Press-On, 1.25W, Gold	.75 dia x .25 (19.05 dia x 6.35)	40.0	HS258-ND	2.35	2.12	1.65	322605C00000
11	TO-92 and TO-18, Press Fit, 1W, Black	.50 dia x .235 (12.70 dia x 5.97)	100.0	HS100-ND	1.23	1.11	.86	322400B00000
12	TO-5, 2 Pc Part for Max Dissipation, 1W, Gold	.625 dia x .271 (15.88 dia x 6.88)	22.0	HS254-ND	6.98	6.28	4.89	321127C00000
12	TO-39, 2 Pc Part for Max Dissipation, 2W, Black	.75 dia x .290 (19.05 dia x 7.37)	20.0	HS255-ND	10.88	9.79	7.62	321527B00000
13	TO-92, Press Fit Heat Sink, For Standard or Modified Pkg, Black	.60 x .05 x .50 (15.24 x 1.27 x 12.70)	64.0	HS251-ND	.42	.30	.21	575200B00000
15	TO-126, Vertical Mount Clip-On Cooler, Black	.775 x .32 x .52 (19.69 x 8.13 x 13.21)	26.0	HS216-ND	.42	.30	.21	577500B00000
16	TO-202, Compact Clip-On Heat Sink, Black	.58 x .80 x .25 (14.73 x 20.32 x 6.35)	28.0	HS247-ND	.53	.38	.27	574004B00000
17	TO-202, Low Profile Heat Sink, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	27.2	HS214-ND	.42	.30	.21	577304B00000
17	TO-202, Low Profile Heat Sink, Black	.52 x .50 x .75 (13.21 x 12.70 x 19.05)	24.0	HS215-ND	.42	.30	.21	577404B00000
19	TO-218, Power Cooler, With Pins, 10W, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS185-ND	1.23	1.11	.86	513201B02500
19	TO-218, Power Cooler, With Pins, 20W, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	3.7	HS187-ND	1.58	1.42	1.11	529801B02500
20	TO-218, Quick Attach, With Pins, 12W, Black	1.95 x .50 x 1.97 (49.53 x 12.70 x 50.04)	6.5	HS134-ND	1.28	1.15	.90	592201B03400
19	TO-218, Vertical Power, 10W, With Pins, Black	1.65 x 1.0 x 2.5 (41.91 x 25.4 x 63.5)	2.5	HS277-ND	1.75	1.58	1.23	530001B02500
21	TO-218, Twisted High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS109-ND	1.75	1.58	1.23	530101B00150
18	TO-218, Slide-On, Vertical PC Mount, With Standard Tabs, Black	1.00 x .50 x 1.22 (25.40 x 12.70 x 30.99)	11.5	HS234-ND	1.43	1.29	1.00	566010B03400
3	TO-220, Dual Mount Power Cooler, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	5.5	HS135-ND	8.75	7.88	6.13	568322B00000
6	TO-220, Dual Mount Power Cooler, 20W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.5	HS110-220-ND	1.70	1.53	1.19	569022B00000
14	TO-202, Clip-On Cooler, 5W, Black	.90 x 1.02 x .39 (22.86 x 25.91 x 9.91)	16.8	HS119-ND	.56	.40	.28	574204B00000
17	TO-220, Compact Heat Sink, Black	.52 x .25 x .75 (13.21 x 6.35 x 19.05)	32.0	HS105-ND	.39	.28	.20	577002B00000
17	TO-220, Compact Heat Sink, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	25.9	HS106-ND	.32	.23	.16	577102B00000
17	TO-220, Compact Heat Sink, Black	.52 x .50 x .75 (13.21 x 12.70 x 19.05)	24.4	HS107-ND	.35	.25	.18	577202B00000
17	TO-220, Low Profile, 2.5W, Gold	.75 x .75 x .375 (19.05 x 19.05 x 9.52)	24.0	HS272-ND	.33	.30	.23	507302C00000
17	TO-220, Low Profile, Low Cost Cooler, 2.5W, Black	.75 x .75 x .375 (19.05 x 19.05 x 9.53)	24.0	HS115-ND	.39	.28	.20	507302B00000
17	TO-220, 2 Hole Pattern Comp. Sink, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	16.7	HS230-ND	.51	.40	.30	530613B00000
17	TO-220, Horizontal/Vertical Mount, 4.5W, Black	1 x 1.18 x .50 (25.4 x 29.97 x 12.7)	16.7	HS278-ND	.43	.39	.30	530614B00000
17	TO-220, Horizontal/Vertical Mount, 3.7W, Gold	1 x .71 x .5 (25.4 x 18.03 x 12.7)	20.3	HS279-ND	.30	.27	.21	530714C00000
17	TO-220, Compact Heat Sink, With Tabs, Black	.52 x .25 x .75 (13.21 x 6.35 x 19.05)	32.0	HS212-ND	.60	.43	.30	577002B04000
17	TO-220, Compact Heat Sink, With Tabs, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	25.9	HS213-ND	.60	.43	.30	577102B04000
17	TO-220, Low Cost Vertical Mount, With Front Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS206-ND*	2.58	2.32	1.81	575002T00000
17	TO-220, Low Cost Vertical Mount, With Center Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS186-ND*	2.75	2.48	1.93	523002T00000
17	TO-220, Vertical Mount With Black Tabs	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS194-ND	.48	.38	.28	563002B00000
17	TO-220, Vertical Mount With Black Tabs	1.00 x .50 x .95 (25.40 x 12.70 x 24.13)	16.6	HS207-ND	.60	.47	.35	576602B00000
17	TO-220, Vertical Mount With Pre-Tinned Tabs, Black	1.00 x .50 x .95 (25.40 x 12.70 x 24.13)	16.6	HS208-ND*	2.55	2.30	1.79	576602T00000
19	TO-220, Power Cooler, 9.0W, Screw Mount, Gold	1.5 x 1.375 x 1.00 (38.1 x 34.93 x 25.4)	13.4	HS282-ND	1.20	1.08	.84	531002C00000
19	TO-220, Power Cooler, With Pins, Heavy Duty, Black	1.38 x .50 x 1.00 (35.05 x 12.70 x 25.40)	13.4	HS190-ND	1.20	1.08	.84	531002B02500
19	TO-220, Power Cooler, 9.0W, Black	1.38 x .5 x 1.50 (35.05 x 12.7 x 38.10)	10.4	HS284-ND	1.18	1.06	.83	531102B00000
19	TO-220, Power Cooler, With Pins, Heavy Duty, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS191-ND	1.28	1.15	.90	531102B02500
19	TO-220, Power Cooler, With Pins, 2-Sided Mount, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	11.0	HS184-ND	1.08	.97	.76	513102B02500
19	TO-220, Power Cooler, With Pins, 2-Sided Mount, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	3.7	HS188-ND	1.55	1.40	1.09	529802B02500

***** Dielectric Coating Unless otherwise noted, all heat sinks are black anodized aluminum.

(Continued)

Fig. 19

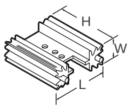


Fig. 20

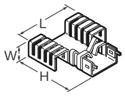


Fig. 21

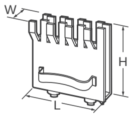


Fig. 22

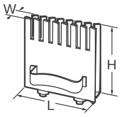


Fig. 23

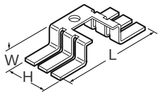


Fig. 24

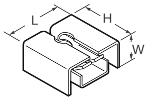


Fig. 25

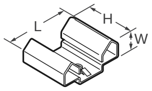


Fig. 26

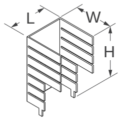


Fig. 27

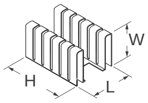


Fig. 28

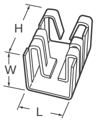


Fig. 29

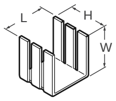


Fig. 30

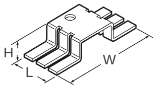


Fig. 31

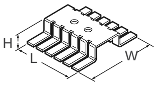


Fig. 32

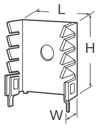


Fig. 33

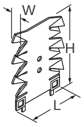


Fig. 34

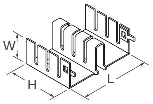


Fig. 35

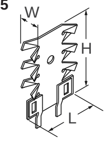
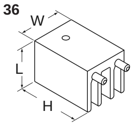


Fig. 36



Shown with optional PC Pins

Fig. 37

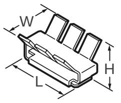


Fig. 38

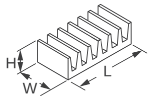


Fig. 39

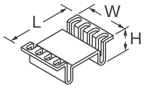


Fig.	Description	Dimensions – Inch (mm) L x W x H	Thermal Resist. °C/W	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
19	TO-220, Power Cooler, Black	1.38 x .50 x 1.00 (35.05 x 12.70 x 25.40)	13.4	HS231-ND	1.10	.99	.77	531002B00000
19	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS131-ND	1.40	1.26	.98	531102C00000
19	TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS131-P-ND	1.68	1.51	1.18	531102C02500
19	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS132-ND	1.43	1.29	1.00	531202C00000
19	TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS132-P-ND	1.70	1.53	1.19	531202C02500
19	TO-220, Power Cooler, 9.0W, Black	1.38 x .50 x 2.00 (35.05 x 12.7 x 50.8)	8.3	HS287-ND	1.33	1.20	.93	531202B00000
19	TO-220, Power Cooler, With Pins, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS241-ND	1.38	1.24	.97	531202B02500
19	TO-220, Vertical Power, 10W, Screw Mount, Black	1.65 x 1.0 x 1.5 (41.91 x 25.4 x 38.1)	2.5	HS276-ND	1.38	1.24	.97	529802B00000
19	TO-220, Power Cooler, With Pins, Black	1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80)	3.4	HS229-ND	1.83	1.65	1.28	529902B02500
19	TO-220, Power Cooler, With Pins, 9.0W, Black	1.38 x .50 x 2.5 (35.05 x 12.7 x 63.5)	8.0	HS290-ND	1.43	1.29	1.00	531302B02500
19	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS133-ND	1.70	1.53	1.19	531302C00000
19	TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS133-P-ND	1.60	1.44	1.12	531302C02500
19	TO-220, Power Cooler, With Pins, Black	1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50)	3.8	HS239-ND	1.75	1.58	1.23	530002B02500
21	TO-220, Staggered High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	16.8	HS151-ND	1.75	1.58	1.23	530402B00150
22	TO-220, Twisted High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS152-ND	1.75	1.58	1.23	530102B00150
22	TO-220, Dual Mount, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	4.4	HS249-ND	1.95	1.76	1.37	530162B00162
23	TO-220, 2W Extended Cap For HS112 and HS114, Black	1.75 x .70 x .50 (17.78 x 44.45 x 12.70)	15.6	HS113-ND	.42	.30	.21	507102B00000
24	TO-220, Vertical Mount Clip-On Cooler, With 1 Mount Hole, Black	.75 x .86 x .395 (19.05 x 21.84 x 10.03)	23.2	HS111-ND	.39	.28	.20	574102B00000
24	TO-220, Vertical Mount Clip-On Cooler, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS198-ND	.39	.28	.20	574502B00000
24	TO-220, Horizontal Mount Clip-On, PC Mount, With Std. Tabs, Blk	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	23.2	HS197-ND	.84	.66	.49	574402B03200
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Long Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS200-ND	.53	.48	.37	574502B03300
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Long Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS204-ND	.73	.66	.51	574902B03300
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Stepped Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS201-ND	.57	.45	.34	574502B03700
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Stepped Tabs, Black	.86 x .395 x .69 (21.84 x 10.03 x 17.53)	21.6	HS203-ND	.68	.61	.48	574602B03700
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Standard Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS205-ND	1.00	.90	.70	574902B04300
25	TO-220, Snap Down, 5W, Black	.75 x 1.12 x .435 (19.05 x 28.45 x 11.05)	16.9	HS116-ND	.51	.40	.30	575102B00000
25	TO-220, Snap-Down With Built-In Clip, For Standard TO-220s, Black	.975 x .44 x .75 (24.77 x 11.18 x 19.05)	16.8	HS220-ND	.46	.33	.23	579302B00000
25	TO-220, Snap-Down With Built-In Clip, For Tapered TO-220s, Black	.975 x .44 x .75 (24.77 x 11.18 x 19.05)	16.8	HS221-ND	.53	.38	.27	579402B00000
26	TO-220, High Performance PC Mount, With Tabs, Black	1.00 x 1.00 x 1.675 (25.40 x 25.40 x 42.55)	10.0	HS222-ND	1.00	.90	.70	590102B03600
27	TO-220, SlimLine High Performance, Horizontal Mount, Black	1.00 x .787 x 1.45 (25.40 x 19.99 x 36.83)	12.4	HS193-ND	.65	.59	.46	551002B00000
28	TO-220, Slide-On, Horizontal PC Mount, With Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS150-ND	.55	.50	.39	576802B03100
28	TO-220, Slide-On, 5W, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS121-ND	.53	.38	.27	576802B00000
28	TO-220, Slide-On, 5W, Unfinished	.50 x .50 x .60 (12.70 x 12.70 x 15.24)	26.8	HS237-ND	.63	.45	.32	591202U00000
28	TO-220, Slide-On, 5W, Black	.50 x .50 x .60 (12.70 x 12.70 x 15.24)	26.8	HS333-ND *NEW!*	.68	.49	.34	591202B00000
28	TO-220, Slide-On, Vertical PC Mount, With Wide Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS209-ND	.58	.52	.41	576802B03700
28	TO-220, Slide-On, Vertical PC Mount, With Long Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS210-ND	.60	.47	.35	576802B03900
28	TO-220, Slide-On, Vertical PC Mount, With Standard Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS211-ND	.58	.52	.41	576802B04100
28	TO-220, Slide-On, Vertical PC Mount, With Surelock Tabs, Black	.57 x .50 x .75 (14.48 x 12.70 x 19.05)	26.8	HS223-ND	.73	.66	.51	591302B02800
28	TO-220, Slide-On, Vertical PC Mount, With Standard Tabs, Black	.75 x .50 x .50 (19.05 x 12.70 x 12.70)	18.8	HS122-ND	.53	.48	.37	576802B04000
28	TO-220, Slide-On, Vertical PC Mount, With SureLock Tabs, Black	.95 x 1.00 x 1.22 (24.13 x 25.40 x 30.99)	11.5	HS240-ND	1.48	1.33	1.04	566010B02800
29	TO-220, Economy Power Cooler, Lightweight, Black	1.00 x .50 x .71 (25.40 x 12.70 x 18.03)	20.3	HS189-ND	.42	.30	.21	530714B00000
29	TO-220, Power Cooler, 10W, Black	.78 x .85 x 1.45 (19.81 x 21.59 x 36.83)	6.4	HS104-2-ND	.57	.45	.34	504222B00000
29	TO-220, Power Cooler, 6W, Black	.70 x .70 x .85 (17.78 x 17.78 x 21.59)	15.6	HS104-1-ND	.46	.33	.23	504102B00000
30	TO-220, Basic Manual Attachment, Low Profile, Black	.70 x 1.75 x .380 (17.78 x 44.45 x 9.65)	15.6	HS112-ND	.39	.28	.20	507002B00000
31	TO-220, Dual Basic Manual Attachment, Horizontal Mount, Black	1.45 x 1.75 x .375 (36.83 x 44.45 x 9.53)	9.6	HS114-ND	.70	.50	.35	507222B00000
32	TO-220, Twisted Fin, Vertical PC Mount, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.4	HS120-ND	.78	.70	.55	593002B03400
32	TO-220, Twisted Fin, With Surelock Tabs and Kool Clip, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS232-ND	1.28	1.15	.90	534202B02853
32	TO-220, Twisted Fin, Vertical, With Tabs and Kool Clip, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS233-ND	1.50	1.35	1.05	534202B33453
33	TO-220, Spacesaver, Vertical Mount, With Tabs, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	10.0	HS225-ND	.65	.59	.46	593202B03500
33	TO-220, Spacesaver, Vertical Mount, With Kool Clip/Tabs, Black	1.38 x .48 x 2.00 (35.05 x 12.19 x 50.80)	10.4	HS192-ND	.95	.86	.67	534302B03553
34	TO-220, Dual Basic Manual Attachment, Vertical Mount, Black	1.48 x .50 x 1.03 (37.59 x 12.70 x 26.16)	13.2	HS219-ND	.95	.86	.67	578622B03200
35	TO-220, Spacesaver Vertical Mount, With Tabs, Black	.875 x .25 x 1.25 (22.23 x 6.35 x 31.75)	22.0	HS224-ND	.73	.66	.51	592502B03400
35	TO-220, Spacesaver Vert. Mnt, With Kool Clip-SureLock Tabs, Blk	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.8	HS238-ND	1.30	1.17	.91	594302B02853
36	TO-220, Vertical Mount, 1W, Black	.64 x .64 x 1.00 (16.26 x 16.26 x 25.4)	17.4	HS300-ND	1.35	1.22	.95	581002B00000
36	TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 1.00 (16.26 x 16.26 x 25.4)	17.4	HS301-ND	1.38	1.24	.97	581002B02500
36	TO-220, Vertical Mount, 2.5W, With Pins, Gold	.64 x .64 x 1.00 (16.26 x 16.26 x 25.4)	17.4	HS302-ND	1.90	1.71	1.33	581002C02500
36	TO-220, Vertical Mount, 2.5W, Black	.64 x .64 x 1.5 (16.26 x 16.26 x 50.8)	16.8	HS303-ND	1.33	1.20	.93	581102B00000
36	TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 1.5 (16.26 x 16.26 x 50.8)	16.8	HS304-ND	1.43	1.29	1.00	581102B02500
36	TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 2.00 (16.26 x 16.26 x 50.8)	12.8	HS305-ND	1.93	1.74	1.35	581202B02500
37	Dip Cooler, 14 or 16 Pin IC, Slide-On, Black	.887 x .60 x .41 (22.53 x 15.24 x 10.41)	38.0	HS179-ND	.45	.36	.27	580200B00000
37	Dip Cooler, 24 Pin IC, Slide-On, Black	1.46 x 1.008 x .58 (37.08 x 25.60 x 14.73)	20.0	HS182-ND	.70	.63	.49	580500B00000
37	Dip Cooler, 40 Pin IC, Slide-On, Black	2.256 x .98 x .59 (57.30 x 24.89 x 14.99)	22.0	HS183-ND	.75	.68	.53	580700B00000
38	Dip Cooler, 14-16 Pin, Glue-On, Black	.73 x .25 x .19 (18.54 x 6.35 x 4.83)	62.5	HS227-ND	.65	.59	.46	501200B00000
38	Dip Cooler, 24 Pin IC, Glue-On, Black	1.25 x .53 x .19 (31.75 x 13.47 x 4.83)	44.0	HS273-ND	.73	.66	.51	508500B00000
38	Dip Cooler, 40 Pin IC, Glue-On, Black	2.0 x .53 x .19 (50.8 x 13.47 x 4.83)	28.0	HS274-ND	1.38	1.24	.97	508700B00000

***** Dielectric Coating   Unless otherwise noted, all heat sinks are black anodized aluminum.

Fig.	Description	Dimensions – Inch (mm) L x W x H	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing† 250	500	Mfg. Part No.
39	SMT D2 Pak Heat Sink, Autoinsertable, Pretinned	1.03x.50x.40 (26.16x12.70x10.16)	HS123CT-ND	.65	.59	107.25	195.00	573300D00010
39	SMT D3 Pak Heat Sink, Autoinsertable, Pretinned	1.22x.50x.40 (30.99x12.70x10.16)	HS124CT-ND	.70	.63	111.38	202.50	573400D00010

† For Tape and Reel Part Number, change the CT to TR.

THE BERGQUIST COMPANY

Heat Sink Pads "The Alternative To Grease"

Sil-Pad 600® is a thermally conductive, silicone elastomer filled with special ingredients to provide higher thermal properties than the original fiberglass based Sil-Pad This material has excellent physical and mechanical characteristics while remaining cost competitive. (Electrically Insulating Material)

Sil-Pad 900-S® family of thermally conductive insulation materials are designed for low cost applications requiring high thermal performance. Intended as an improved Sil Pad 600 alternative.

Q-Pad 3® is a thermally conductive, fiberglass reinforced graphite imbedded elastomer which conforms to surface textures extremely well. This material eliminates problems associated with thermal grease such as contamination of electronic assemblies and reflow solder baths. Q-Pad 3 may be installed prior to soldering and cleaning. (Electrically Conducting Material)

Sil-Pad K10® is a thermally conductive Kapton composite film coated with boron nitride filled polyester resin. Offering the highest thermal properties of the Kapton insulators with minimum thickness and lower thermal resistance. Designed to replace brittle ceramic insulators. (Electrically Insulating Material)

Sil-Pad KA-10™ is the highest performance insulator that utilizes Bergquist's dielectric material T- Film**™.**

CPU Pad® is a thermally conductive, electrically insulating, Kapton double coated tape. Typically used between the CPU and heat sink, it was designed to be used in place of clips used to attach heat sink to CPU. No clamping times or high pressure is required.

SPT 400 is a thermally conductive insulation for clip mounted plastic power devices. These TO-220 thermal tubes slip over the semiconductor device and conduct the heat to the heat sink and clip. Designed to be used on heat sinks with metal clips to attach device to heat sink. (Electrically Insulating Material)

HI-FLOW™ 115-AC is a thermally conductive fiber reinforced phase change material. The product consists of a thermally conductive 65° C phase change compound coated on a fiberglass web, with an adhesive coating on one side for attachment to a cold heat sink. Handles like a Sil-Pad, at room temperature and flows like high quality grease at elevated temperature.

Bond Ply™ 100 is a thermally conductive, double-sided pressure sensitive adhesive tape. The tape consists of a high performance, thermally conductive acrylic adhesive coated with a fiberglass reinforced interweave. Bond Ply 100 is designed to attain high bond strength to a variety of surfaces, and to maintain high bond strength with long term exposure to moderate heat and high humidity. Typical Applications: • Mounting a heat sink to a BGA graphic processor • Mounting a heat sink to a computer processor • Mounting a heat sink to a drive processor • Mounting a heat spreader to a power converter PCB • Mounting a heat spreader to a motor control PCB.

Gap Pad™ 1500 is designed to cost-effectively maximize heat transfer from electronic components to heat sinks or heat spreaders. GP 1500 is a highly conformable low-modulus material that fills air gaps due to steps, rough surfaces, and high stack-up tolerances. The softness relieves stress and absorbs shocks minimizing damage to delicate leads. GP 1500 is an electrically isolating material that allows its use in applications requiring isolation between heat sinks and high voltage, bare leaded devices.

NEW! **Sil-Pad K-4®** uses a specially developed film which has high thermal conductivity, high dielectric strength and is very durable. Sil-Pad K-4 combines the thermal transfer properties of well-known Sil-Pad rubber with the physical properties of a film. Sil-Pad K-4 is a durable insulator that withstands high voltages and requires no thermal grease to transfer heat.

NEW! **Sil-Pad K-6®** is a medium performance film based thermally conductive insulator. The film is coated with a silicone elastomer to deliver high performance and provides a continuous physically tough dielectric barrier against "cut-through" and resultant assembly failures.

NEW! **Sil-Pad 1000®** has the same excellent mechanical and physical characteristics of our Sil-Pad 400 material while offering a 35% reduction in thermal resistance. Sil-Pad 1000 is a composite of silicone rubber and fiberglass. It is specially filled and offers low thermal resistance. Sil-Pad 1000 is non-toxic and resists damage from cleaning agents. It is flame retardant and specially formulated for use as a thermally conductive insulator.

NEW! **Sil-Pad 2000®** is Berquist's high performance, high reliability thermally conductive insulator. Sil-Pad 2000 is designed for demanding military/aerospace and commercial applications. In these applications, Sil-Pad 2000 complies with military standards. This silicone elastomer is specially filled to maximize the thermal and dielectric performance of the filler/binder matrix. The result is a "grease-free", conformable material capable of meeting or exceeding the thermal and electrical requirements of high reliability electronic packaging applications.

NEW! **Gap-Pad® VO Ultra Soft** is recommended for extremely low stress applications. The viscoelastic nature of the material also gives excellent low stress vibration dampening and shock absorbing characteristics. Gap Pad VO Ultra Soft is an electrically isolating material, which allows its use in applications requiring isolation between heat sinks and high voltage, bare leaded devices.

Fig. 1

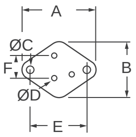


Fig. 2

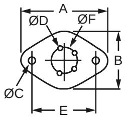


Fig. 3

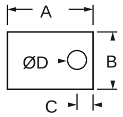


Fig. 4

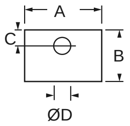


Fig. 5

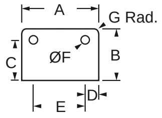


Fig. 6

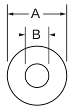


Fig. 7

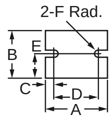


Fig. 8

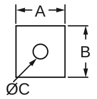


Fig. 9

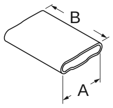


Fig. 10 *NEW!*

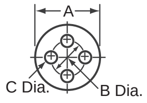


Fig.	Device Type	Dimensions – Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	10	50	100	Bergquist Part No.
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER100-ND	1.09	.98	.88	.78	SP600-05
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER172-ND	1.09	.98	.88	.78	SP900S-05
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER101-ND	1.17	1.05	.94	.84	SP600-02
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER171-ND	1.06	.95	.85	.75	SP900S-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER111-ND	2.32	2.08	1.86	1.65	K10-05
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER112-ND	2.60	2.33	2.09	1.85	K10-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER122-ND	.71	.63	.57	.50	Q3-05
		1.250 (31.75)	.700 (17.78)	.140 (3.56)	.062 (1.57)	.960 (24.38)	.200 (5.08)	—	BER152-ND	1.03	.93	.83	.74	K10-30
	TO-3 / TO-66	1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER209-ND* *NEW!*	.63	.56	.51	.45	7403-09FR-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER203-ND* *NEW!*	.60	.54	.49	.43	3223-07FR-05
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER212-ND* *NEW!*	.60	.54	.49	.43	7403-09FR-05
		1.65 (41.91)	1.14 (28.96)	.122 (3.10)	.062 (1.57)	1.187 (30.15)	.430 (10.92)	—	BER211-ND* *NEW!*	.60	.54	.49	.43	7403-09FR-04
		1.563 (39.70)	1.05 (26.67)	.140 (3.56)	.080 (2.03)	1.187 (30.15)	.430 (10.92)	—	BER210-ND* *NEW!*	.58	.52	.47	.42	7403-09FR-03
		1.312 (33.32)	.762 (19.35)	.140 (3.56)	.062 (1.57)	.960 (24.38)	.200 (5.08)	—	BER218-ND* *NEW!*	.53	.48	.43	.38	7403-09FR-11
2	TO-3 (4PIN)	1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER139-ND	.72	.65	.58	.51	SP600-86
		1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER140-ND	1.49	1.33	1.19	1.06	K10-86
		1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER141-ND	.49	.45	.40	.35	Q3-86
3	TO-247AC	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER178-ND	.82	.74	.66	.59	SP900S-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER120-ND	1.36	1.22	1.09	.97	K10-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER131-ND	.63	.56	.51	.45	Q3-104
	TO-220	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER200-ND *NEW!*	1.68	1.51	1.35	1.20	2015-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER204-ND* *NEW!*	.51	.46	.41	.37	3223-07FR-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER221-ND *NEW!*	.66	.60	.54	.47	K6-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER109-ND *NEW!*	.63	.57	.51	.45	SP600-104
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER208-ND* *NEW!*	.50	.45	.41	.36	3223-07FR-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER217-ND* *NEW!*	.50	.45	.41	.36	7403-09FR-90
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER102-ND	.73	.66	.59	.52	SP600-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER176-ND	.73	.66	.59	.52	SP900S-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER103-ND	.73	.66	.59	.52	SP600-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER175-ND	.73	.66	.59	.52	SP900S-54
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER110-ND	.73	.66	.59	.52	SP600-43
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER174-ND	.73	.66	.59	.52	SP900S-43

* Made of SP400 material.

(Continued)

THE BERGQUIST COMPANY Heat Sink Pads “The Alternative To Grease” *(Cont.)*

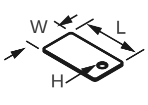
Fig.	Device Type	Dimensions – Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	10	50	100	Bergquist Part No.
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER113-ND	1.02	.92	.82	.73	K10-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER114-ND	.82	.74	.66	.59	K10-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER187-ND	.45	.40	.36	.32	KA10-54
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER121-ND	1.02	.92	.82	.73	K10-43
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER193-ND	.66	.59	.53	.47	KA10-43
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER124-ND	.60	.54	.49	.43	Q3-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER125-ND	.60	.54	.49	.43	Q3-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER198-ND *NEW!*	.57	.51	.46	.41	1009-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER201-ND *NEW!*	1.07	.96	.86	.76	2015-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER206-ND* *NEW!*	.48	.43	.39	.34	3223-07FR-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER215-ND* *NEW!*	.48	.43	.39	.34	7403-09FR-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER219-ND *NEW!*	.54	.49	.44	.39	K4-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER199-ND *NEW!*	.57	.51	.46	.41	1009-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER202-ND *NEW!*	1.07	.96	.86	.76	2015-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER207-ND* *NEW!*	.48	.43	.39	.34	3223-07FR-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER216-ND* *NEW!*	.48	.43	.39	.34	7403-09FR-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER220-ND *NEW!*	.54	.49	.44	.39	K4-58
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER132-ND	.60	.54	.49	.43	Q3-43
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER205-ND* *NEW!*	.48	.43	.39	.34	3223-07FR-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER214-ND* *NEW!*	.48	.43	.39	.34	7403-09FR-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER146-ND	.72	.65	.58	.52	K10-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER147-ND	.43	.39	.35	.31	Q3-51
	TO-218	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER108-ND	.80	.72	.64	.57	SP600-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER177-ND	.80	.72	.64	.57	SP900S-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER119-ND	1.26	1.13	1.01	.90	K10-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER130-ND	.62	.56	.50	.44	Q3-90
4	MULTI	.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER107-ND	.83	.75	.67	.59	SP600-114
		.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER180-ND	.83	.75	.67	.59	SP900S-114
		.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER118-ND	1.38	1.24	1.11	.98	K10-114
5	SIP	1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER106-ND	.94	.84	.75	.67	SP600-105
		1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER179-ND	.94	.84	.75	.67	SP900S-105
		1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER117-ND	1.76	1.58	1.42	1.25	K10-105
6	DO-5	1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER105-ND	.88	.79	.71	.63	SP600-25
		1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER173-ND	.88	.79	.71	.63	SP900S-25
		1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER116-ND	1.57	1.41	1.26	1.12	K10-25
7	SIP Module	1.50 (38.10)	.900 (22.86)	.150 (3.81)	1.20 (30.48)	.450 (11.43)	.075 (1.91)	—	BER136-ND	.48	.43	.39	.34	Q3-67
		2.50 (63.50)	2.00 (50.80)	.344 (8.74)	1.81 (46.02)	1.00 (25.40)	.156 (3.96)	—	BER137-ND	.65	.58	.52	.46	Q3-101
8	CPU	.63 (16.00)	.63 (16.00)	—	—	—	—	—	BER133-ND	.52	.47	.42	.38	CPU .63X.63
		1.75 (44.45)	1.75 (44.45)	—	—	—	—	—	BER134-ND	1.29	1.15	1.03	.92	CPU 1.75X1.75
		1.375 (34.93)	1.375 (34.93)	—	—	—	—	—	BER135-ND	.86	.78	.70	.62	CPU 1.375X1.375
	Bridge Rect.	1.00 (25.40)	1.00 (25.40)	.187 (4.75)	—	—	—	—	BER142-ND	.46	.42	.37	.33	Q3-48
		1.25 (31.75)	1.25 (31.75)	.200 (5.08)	—	—	—	—	BER144-ND	.49	.44	.39	.35	Q3-46
		1.25 (31.75)	1.25 (31.75)	.200 (5.08)	—	—	—	—	BER145-ND	1.44	1.29	1.15	1.02	K10-46
9	TO-220 Tubes	.433 (11.00)	.985 (25.02)	—	—	—	—	—	BER156-ND	.73	.66	.59	.52	SPT400 -12-11-25
	TO-247 Tubes	.532 (13.50)	.985 (25.02)	—	—	—	—	—	BER157-ND	.89	.80	.72	.64	SPT400-12- 13.5-25
10	TO-5	.360 (9.14)	.200 (5.08)	.040 (1.02)	—	—	—	—	BER213-ND* *NEW!*	.46	.41	.37	.33	7403-09FR-09
“Hi-Flow ™” Single Side Adhesive Backed Pads (Phase Change)														
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	.072 (1.83)	BER166-ND	.28	.25	.23	.20	HF115TAAC-05
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER167-ND	.10	.09	.08	.07	HF115TAAC-54
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER168-ND	.10	.09	.08	.07	HF115TAAC-58
3	TO-218	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER169-ND	.12	.10	.09	.08	HF115TAAC-90
5	SIP	1.450 (36.83)	.830 (21.08)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER170-ND	.14	.13	.11	.10	HF115TAAC-105
“SP900” Single Side Adhesive Backed Pads (Low Mounting Pressure)														
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	.072 (1.83)	BER181-ND	1.14	1.03	.92	.81	SP900EAAC-05
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER182-ND	.74	.67	.60	.53	SP900EAAC-54
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER183-ND	.74	.67	.60	.53	SP900EAAC-58
“Bond Ply™ 100” Double SIded Thermal Tape														
Double Sided Adhesive Thermal Pad, .005” (.127) Thick, 10” (25.4cm) Square Sheet									BER158-ND	41.44	36.98	33.15	29.33	BOND PLY 105 10x10”
Double Sided Adhesive Thermal Pad, .008” (.203) Thick, 10” (25.4cm) Square Sheet									BER159-ND	50.99	45.51	40.80	36.09	BOND PLY 108 10x10”
Double Sided Adhesive Thermal Pad, .011” (.279) Thick, 10” (25.4cm) Square Sheet									BER160-ND	63.77	56.90	51.02	45.13	BOND PLY 111 10x10”
“Gap Pad™ 1500” Thermal Gap Filling Material														
High Thermally Conductive Pad, .020” (.508) Thick, 4” (10.16cm) Square Sheet									BER161-ND	9.98	8.91	7.99	7.07	.020 GP 1500 4” X 4”
High Thermally Conductive Pad, .040” (1.02) Thick, 4” (10.16cm) Square Sheet									BER162-ND	14.33	12.79	11.47	10.15	.040 GP 1500 4” X 4”
High Thermally Conductive Pad, .060” (1.52) Thick, 4” (10.16cm) Square Sheet									BER163-ND	16.45	14.68	13.16	11.64	.060 GP 1500 4” X 4”
High Thermally Conductive Pad, .080” (2.03) Thick, 4” (10.16cm) Square Sheet									BER164-ND	19.44	17.35	15.55	13.76	.080 GP 1500 4” X 4”
High Thermally Conductive Pad, .125” (3.18) Thick, 4” (10.16cm) Square Sheet									BER165-ND	26.39	23.55	21.12	18.68	.125 GP 1500 4” X 4”
High Thermally Conductive Pad, .040” (1.02) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER227-ND *NEW!*	86.26	76.97	69.01	61.05	.040 GP 1500 8” X 16”
High Thermally Conductive Pad, .060” (1.52) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER228-ND *NEW!*	96.85	86.42	77.48	68.54	.060 GP 1500 8” X 16”
High Thermally Conductive Pad, .080” (2.03) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER229-ND *NEW!*	110.92	98.98	88.74	78.50	.080 GP 1500 8” X 16”
High Thermally Conductive Pad, .125” (3.18) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER230-ND *NEW!*	189.31	168.93	151.45	133.98	.125 GP 1500 8” X 16”
NEW! “Gap Pad™ VO Ultra Soft” Thermal Gap Filling Material NEW!														
High Thermally Conductive Pad, .020” (.508) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER222-ND	72.05	64.30	57.65	51.00	.020 GP US 8” X 16”
High Thermally Conductive Pad, .040” (1.02) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER223-ND	90.61	80.86	72.49	64.13	.040 GP US 8” X 16”
High Thermally Conductive Pad, .060” (1.52) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER224-ND	101.66	90.72	81.33	71.95	.060 GP US 8” X 16”
High Thermally Conductive Pad, .080” (2.03) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER225-ND	116.48	103.94	93.19	82.44	.080 GP US 8” X 16”
High Thermally Conductive Pad, .125” (3.18) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER226-ND	193.38	172.55	154.70	136.85	.125 GP US 8” X 16”

* Made of SP400 material.

Wakefield Engineering

Heat Sinks

Wakefield Engineering is recognized as a worldwide leader in innovative thermal management solutions. Their products range from board level heat sinks for both surface mount and thru-hole, to fan mounted heat sinks for microprocessors and CPU's. Wakefield Engineering offers a single source for all of your thermal requirements. DeltaPads are replacements to heat sink grease but without any mess. They are heat conducting, electrically isolating pads to go between the heat sink and your semiconductor device. TO-220 heatsinks will also fit TO-202 and TO-126 packages.

Fig. 1


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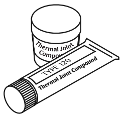

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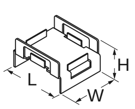

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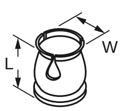

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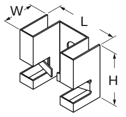

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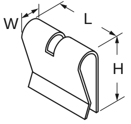

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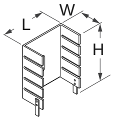

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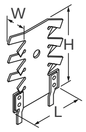

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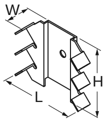

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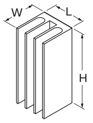

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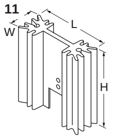

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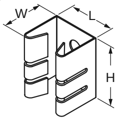

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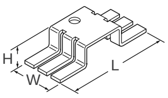

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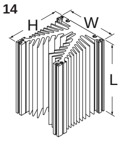

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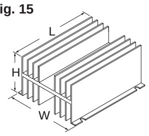

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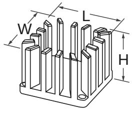

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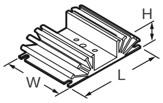

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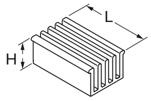

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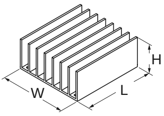

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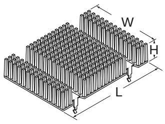


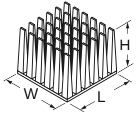
Fig. 21


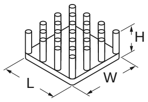
Fig. 22


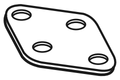
Fig.	Description	Dimensions – Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
1	DeltaPad Thermal Pad TO-220 No Adhesive .007" (.18mm)	.710 x .500 x .141 dia. (18.03 x 12.70 x 3.58 dia.)	345-1000-ND	.35	.25	.18	173-7-220P
1	DeltaPad Thermal Pad TO-220, No Adhesive .009" (.23mm)	.750 x .500 x .147 dia. (19.05 x 12.70 x 3.73 dia.)	345-1001-ND	.35	.25	.18	173-9-240P
1	Kapton Thermal Pad, TO-220, No Adhesive .006" (.15mm)	.710 x .500 x .141 dia. (18.03 x 12.70 x 3.58 dia.)	345-1002-ND	.60	.43	.30	175-6-220P
1	Kapton Thermal Pad TO-220, No Adhesive .006" (.15mm)	.750 x .500 x .125 dia. (19.05 x 12.70 x 3.18 dia.)	345-1003-ND	.60	.43	.30	175-6-230P
1	Kapton Thermal Pad TO-220, No Adhesive .006" (.15mm)	.750 x .500 x .147 dia. (19.05 x 12.70 x 3.73 dia.)	345-1004-ND	.39	.28	.20	175-6-240P
1	Kapton Thermal Pad TO-220, No Adhesive .006" (.15mm)	.860 x .740 x .160 (21.84 x 18.80 x 4.06)	345-1005-ND	.77	.55	.39	175-6-280P
2	Silicon Thermal Grease, 4 gram Plastic Pak	—	345-1006-ND	4.00	3.60	2.80	120-SA
2	Silicon Thermal Grease, 2 Oz. Jar	—	345-1007-ND	11.43	10.29	8.00	120-2
2	Silicon Thermal Grease, 5 Oz. Tube	—	345-1008-ND	21.63	19.47	15.14	120-5
2	Silicon Thermal Grease, 8 Oz. Jar	—	345-1009-ND	26.93	24.24	18.85	120-8
2	Silicon Thermal Grease, 5 Lbs. Can	—	345-1010-ND	140.90	126.81	98.63	120-80
2	Synthetic Non-Silicon Thermal Compound 4 Oz Tube	—	345-1011-ND	34.13	30.72	23.89	126-4
3	D-Pack/SOT-23 Heat Sink, Pretinned, Autoinsertable	.74 x .60 x .36 (18.80 x 15.24 x 9.14)	345-1012-ND	.42	.30	.21	217-36CT6
4	TO-5 Clip-On Cup Style With 4-40 Thd Base	.37 x .38 dia. (9.40 x 9.65 dia.)	345-1013-ND	9.78	8.80	6.85	260-4T5E
5	TO-220, Self-Locking, Horz/Vert Mount, Black	1.0 x .50 x .85 (25.40 x 12.70 x 21.59)	345-1016-ND	.81	.58	.41	235-85AB
6	TO-220, Self-Locking, Horz/Vert Mount, Black	.80 x .27 x .80 (20.32 x 6.86 x 20.32)	345-1017-ND	.35	.25	.18	243-3PAB
7	TO-220, Vertical Mount Wave-Solderable, With Tabs Black	1.0 x .50 x 1.18 (25.40 x 12.70 x 29.97)	345-1018-ND	1.26	.90	.63	287-1AB
7	TO-220, Low Cost Horz/Vert Mount, Black	1.0 x .50 x .71 (25.40 x 12.70 x 18.03)	345-1019-ND	.53	.38	.27	289-AB
7	TO-220, Dual Low Cost Horz/Vert Mount, Black	1.0 x .50 x 1.18 (25.40 x 12.70 x 29.97)	345-1020-ND	.63	.45	.32	290-1AB
7	TO-220, Dual Mount Low Cost, Black	1.0 x .50 x 1.18 (25.40 x 12.70 x 29.97)	345-1021-ND	.63	.45	.32	290-2AB
7	TO-220, Low Cost Horz/Vert Mount, Black	.75 x .375 x .75 (19.05 x 9.52 x 19.05)	345-1022-ND	.49	.35	.25	273-AB
7	TO-220, Low Cost Horz/Vert Mount, Black	.52 x .375 x .750 (13.21 x 9.52 x 19.05)	345-1023-ND	.49	.35	.25	274-1AB
8	TO-220, Vertical Mount Wave-Solderable, With Tabs	.875 x .215 x 1.25 (22.23 x 5.46 x 31.75)	345-1024-ND	1.12	.80	.56	288-1AB
9	TO-220 Self-Locking, Vertical Mount, Black	1.0 x .36 x .860 (25.40 x 9.14 x 21.84)	345-1025-ND	.70	.50	.35	291-H36AB
10	TO-220 Power Vertical Mount With Pins/6-32Thds, Black	.64 x .64 x 1.0 (16.26 x 16.26 x 25.40)	345-1026-ND	1.82	1.30	.91	634-10ABP
10	TO-220 Power Vertical Mount With Pins/6-32Thds, Black	.64 x .64 x 2.0 (16.26 x 16.26 x 50.80)	345-1027-ND	2.07	1.48	1.04	634-20ABP
11	TO-220 Power Vertical Mount With Pins, Black	1.375 x .50 x 1.0 (34.93 x 12.70 x 25.40)	345-1028-ND	2.14	1.53	1.07	637-10ABP
11	TO-220 Power Vertical Mount With Pins, Black	1.375 x .50 x 1.5 (34.93 x 12.70 x 38.10)	345-1029-ND	2.21	1.58	1.11	637-15ABP
11	TO-220 Power Vertical Mount With Pins, Black	1.375 x .50 x 2.0 (34.93 x 12.70 x 50.80)	345-1030-ND	2.49	1.78	1.25	637-20ABP
11	TO-220 Power Vertical Mount With Pins, Black	1.650 x 1.0 x 1.0 (41.91 x 25.40 x 25.40)	345-1031-ND	2.91	2.08	1.46	647-10ABP
11	TO-220 Power Vertical Mount With Pins, Black	1.650 x 1.0 x 1.5 (41.91 x 25.40 x 38.10)	345-1032-ND	3.12	2.23	1.56	647-15ABP
11	TO-220 Power Vertical Mount With Pins, Black	1.650 x 1.0 x 1.5 (41.91 x 25.40 x 38.10)	345-1033-ND	3.12	2.23	1.56	657-15ABP
11	TO-220 Power Vertical Mount With Pins, Black	1.650 x 1.0 x 1.5 (41.91 x 25.40 x 38.10)	345-1034-ND	2.91	2.08	1.46	657-15ABPN
11	TO-220 Power Vertical Mount With Pins, Black	1.650 x 1.0 x 2.0 (41.91 x 25.40 x 50.80)	345-1035-ND	3.43	2.45	1.72	657-20ABP
11	TO-220 Pwr SpeedClip Mount With Pins (Order clip below)	1.375 x .50 x 1.0 (34.93 x 12.70 x 25.40)	345-1037-ND	2.84	2.03	1.42	667-10ABPP
—	SpeedClip, Stainless Steel for 667 Series	—	345-1039-ND	.95	.68	.48	330-SC
12	TO-220 Self-Locking Horz/Vert Mount, Black	.57 x .50 x .75 (14.48 x 12.70 x 19.05)	345-1040-ND	.74	.53	.37	230-75AB
13	TO-220 Low Cost Horz/Vert Mount, Black	1.75 x .375 x .70 (44.45 x 9.52 x 17.78)	345-1041-ND	.56	.40	.28	270-AB
13	TO-220 Top Mount Booster for 270,272,280 Series, Black	1.75 x .50 x .70 (44.45 x 12.70 x 17.78)	345-1042-ND	.56	.40	.28	271-AB
13	TO-220 Dual Mount Horz, Black	1.75 x .375 x 1.45 (44.45 x 9.52 x 36.83)	345-1043-ND	.67	.48	.34	272-AB
14	IGBT and SSR's Power Module's Black	7.087 x 4.92 x 5.34 (180.01 x 124.97 x 135.64)	345-1046-ND	104.95	94.46	73.47	392-180AB
15	TO-3 Power Horz Mount Double Fin, Black	4.750 x 1.5 x 1.25 (120.65 x 38.10 x 31.75)	345-1047-ND	9.93	8.94	6.95	401-A
15	Power Heat Sink Horz, Double Fin, No Holes	4.750 x 1.5 x 1.25 (120.65 x 38.10 x 31.75)	345-1048-ND	6.68	6.01	4.68	401-K
15	Power Heat Sink, Horz, Double Fin, No Holes	4.750 x 3.0 x 2.62 (120.65 x 76.20 x 66.55)	345-1049-ND	11.93	10.74	8.35	421-K
15	Power Heat Sink, Horz, Double Fin, No Holes	4.750 x 5.5 x 2.62 (120.65 x 139.70 x 66.55)	345-1050-ND	18.05	16.25	12.64	423-K
16	TO-3 Power, Horz Mount, Omnidirectional, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	345-1051-ND	4.88	4.39	3.42	680-125A
17	TO-3 Heavy Duty Power, Horz Mount, Black	4.125 x 3.0 x 1.0 (104.78 x 76.20 x 25.40)	345-1052-ND	8.48	7.63	5.94	641-A
17	Power Heat Sink, Horz Mount, No Holes, Black	4.125 x 3.0 x 1.0 (104.78 x 76.20 x 25.40)	345-1053-ND	8.18	7.36	5.73	641-K
18	14-16 Dip IC Heat Sink, Glue On, Black	.75 x .415 x .24 (19.05 x 10.54 x 6.10)	345-1054-ND	1.82	1.30	.91	651-B
19	Half Brick DC/DC Converter, Vert, Black	2.28 x 2.4 x .95 (57.91 x 60.96 x 24.13)	345-1055-ND	4.63	4.17	3.24	518-95AB
19	Half Brick DC/DC Convert With Hardware/Thermal Pad	2.28 x 2.4 x .95 (57.91 x 60.96 x 24.13)	345-1056-ND	8.08	7.27	5.66	518-95AB-MS4
19	Half Brick DC/DC Converter Vert, Black	2.28 x 2.4 x .45 (57.91 x 60.96 x 11.43)	345-1057-ND	8.08	7.27	5.66	528-45AB

CPU, PGA and BGA Heat Sinks

Fig.	Description	Dimensions – Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
	CPU Cooler						
20	40mm QFP and 21mm BGA With Clips and Thermal Tape, Black	2.89 x 2.0 x .5 (73.41 x 50.80 x 12.70)	345-1058-ND	6.48	5.83	4.54	609-50ABS3
21	21mm BGA With Thermal Double Sided Tape	.827 x .827 x .25 (21.01 x 21.01 x 6.35)	345-1059-ND	2.28	1.63	1.14	624-25ABT4
21	25mm BGA With Thermal Double Sided Tape	.984 x .984 x .25 (24.99 x 24.99 x 6.35)	345-1060-ND	2.56	1.83	1.28	625-25ABT4
21	17x17 PGA No Tape, Black	1.75 x 1.7 x .40 (44.45 x 43.18 x 10.16)	345-1061-ND	2.45	1.75	1.23	628-40AB
21	17x17 PGA No Tape, Black	1.75 x 1.7 x .65 (44.45 x 43.18 x 16.51)	345-1062-ND	2.35	2.12	1.65	628-65AB
21	28-38mm CQFP No Tape, Black	1.1 x 1.1 x .25 (27.94 x 27.94 x 6.35)	345-1036-ND	1.61	1.15	.81	658-25AB
21	28-38mm CQFP With Thermal Tape (Chomerics T-405), Black	1.1 x 1.1 x .25 (27.94 x 27.94 x 6.35)	345-1063-ND	2.59	1.85	1.30	658-25ABT1
21	28-38mm CQFP With Thermal Tape (Arclad 8223) Black	1.1 x 1.1 x .25 (27.94 x 27.94 x 6.35)	345-1064-ND	2.24	1.60	1.12	658-25ABT2
21	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	1.1 x 1.1 x .25 (27.94 x 27.94 x 6.35)	345-1065-ND	2.94	2.10	1.47	658-25ABT4
21	28-38mm CQFP No Tape, Black	1.1 x 1.1 x .35 (27.94 x 27.94 x 8.89)	345-1066-ND	1.65	1.18	.83	658-35AB
21	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	1.1 x 1.1 x .35 (27.94 x 27.94 x 8.89)	345-1067-ND	2.66	1.90	1.33	658-35ABT3
21	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	1.1 x 1.1 x .45 (27.94 x 27.94 x 11.43)	345-1068-ND	2.91	2.08	1.46	658-35ABT4
21	28-38mm CQFP No Tape, Black	1.1 x 1.1 x .45 (27.94 x 27.94 x 11.43)	345-1069-ND	1.79	1.28	.90	658-45AB
21	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	1.1 x 1.1 x .45 (27.94 x 27.94 x 11.43)	345-1070-ND	2.31	1.65	1.16	658-45ABT3
21	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	1.1 x 1.1 x .45 (27.94 x 27.94 x 11.43)	345-1071-ND	2.23	2.01	1.56	658-45ABT4
21	28-38mm CQFP No Tape, Black	1.1 x 1.1 x .60 (27.94 x 27.94 x 15.24)	345-1072-ND	1.82	1.30	.91	658-60AB
21	28-38mm CQFP With Thermal Tape (Chomerics T-405), Black	1.1 x 1.1 x .60 (27.94 x 27.94 x 15.24)	345-1073-ND	2.84	2.03	1.42	658-60ABT1
21	28-38mm CQFP With Thermal Tape (Arclad 8223), Black	1.1 x 1.1 x .60 (27.94 x 27.94 x 15.24)	345-1074-ND	2.38	1.70	1.19	658-60ABT2
21	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	1.1 x 1.1 x .60 (27.94 x 27.94 x 15.24)	345-1075-ND	2.94	2.10	1.47	658-60ABT3
	CPU Composite Cooler						
22	CPU Composite Cooler for 84-100QFP, 169BGA, No Tape, Black	.65 x .65 x .40 (16.51 x 16.51 x 10.16)	345-1076-ND	1.68	1.20	.84	D10650-40
22	CPU Composite Cooler for 128-200QFP, 313BGA, No Tape, Black	.85 x .85 x .40 (21.59 x 21.59 x 10.16)	345-1077-ND	2.10	1.50	1.05	D10850-40

Wakefield 609 Series fits PowerPC 601, 604, 255BGA
Wakefield 628 Series fits IntelDX4, Intel 80486DX2, AM486DX2/DX4
Wakefield 658 Series fits IntelDX4, AM29240, PowerPC 603

MICA Insulators for Transistor Mounting



These precision stamped MICA Insulators provide good thermal conductivity (.009 watts per square inch per °C per inch in thickness). Excellent thermal resistance 1100°F (593°C). Dielectric constant of 7 at 1000KHz. **Specifications:** .003" (.08mm) thick MICA ± .001" (± .03mm).

Fig. 1

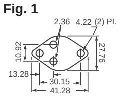


Fig. 2

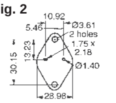


Fig. 3

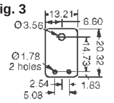
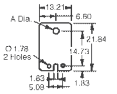


Fig. 4

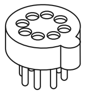


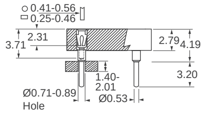
"A" Dim. (Dia.)
4672K: 3.58mm
4673K: 2.92mm

Fig.	Digi-Key Part No.	Pricing 10	100	500	1,000	Keystone Part No.
1	4651K-ND	.71	5.87	24.73	33.70	4651
2	4662K-ND	.78	6.38	27.80	36.87	4662
3	4671K-ND	1.00	5.86	24.69	23.87	4671
4	4672K-ND	.78	5.88	24.77	17.49	4672
4	4673K-ND	.78	5.88	24.77	17.49	4673

Transistor Sockets

Plating:
Sleeve (Pin):
200µ" Sn.
Contact (Clip):
30µ" Au.





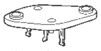
No. of Pins	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
TO-5 Package					
3	ED2150-ND	.58	.49	.41	917-93-103-41-005
4	ED2151-ND	.77	.65	.54	917-93-104-41-005
8	ED2152-ND	1.48	1.25	1.03	917-93-108-41-005
TO-100 Package					
8	ED2153-ND	1.48	1.25	1.03	917-93-208-41-005
10	ED2154-ND	1.77	1.50	1.23	917-93-210-41-005

TO-3 Power Transistor Sockets

Fig. 1

Chassis Mount

- Top Plate: Molded Nylon • Base: Phenolic • Dimensions: 1.53"x.073" (38.86mm x 1.85mm) Standoffs: 0.09" (2.29mm)



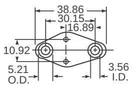
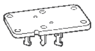


Fig. 2

Chassis Mount

- Top Plate: Phenolic
- Base: Phenolic • Dimensions: 1.35"x1.00" (34.29mm x 25.40mm)
- Standoffs: None



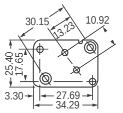
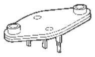
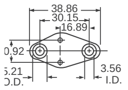


Fig. 3

P.C. Board Mount

- Top Plate: Molded Nylon • Base: Phenolic
- Dimensions: 1.53"x.073" (38.86mm x 1.85mm) • Standoffs: 0.09" (2.29mm)





Transistor Mounting Hardware

Fig. 4A

TO-220
Complete Mounting Kit
(A, B, C, D, E)

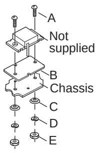
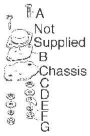


Fig. 4B

TO-3
Complete Mounting Kit
(A, B, C, D, E, F, G)



✱ **6-20** Mounting Screws
(A Only, 2 Required)

Fig.	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	4601K-ND	1.60	1.33	1.26	4601
2	4606K-ND	1.37	1.13	1.02	4606
3	4600K-ND	1.44	1.19	1.08	4600
4A	4724K-ND	.89	.85	.79	4724
4B	4725K-ND	.89	.85	.79	4725
4B	4706K-ND✱	2.99/20	17.36/200		4706

TO-220 Solder Tail Transistor Sockets

P.C. Board Mount: .100" (2.54mm) center. These three circuit transistor sockets are preassembled and ready for soldering to a P.C. Board. The proven double cantilever design eliminates circuit failure due to thermal expansion and/or mechanical tolerances. Linear movement of the transistor leads in the socket does not affect contact reliability.

Material: Tin-Plated Brass, 94V-2 Rated Nylon

Fig. 1

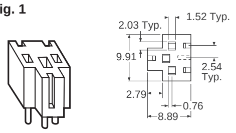


Fig. 2

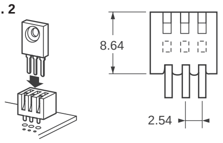
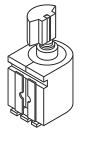


Fig.	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	WM2550-ND	1.47	1.30	.87	09-48-3031
2	WM2551-ND	1.82	1.61	1.07	10-18-2031

NEW! Vibrating Motors



Features: • Smallest and lightest motor for down sized cellular and pager applications • High reliability by shockproof structure **Specifications: KHN4** • Operating Voltage: 1.1V to 1.7V • Starting Voltage: 0.5V • Starting Current: 125mA • Rated Voltage: 1.25V • Dimensions: ø4mm x L11.5mm • Rated Current 95mA • Weight: 1.17g **KHN5** • Operating Voltage: 1.1V to 1.7V • Starting Voltage: 0.5V • Starting Current: 120mA • Rated Voltage: 1.30V • Dimensions: ø5mm x L10mm • Rated Current 90mA • Weight: 1.97g

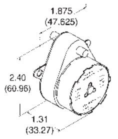
Description	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
9700RPM Vibrating Motor	P12056-ND	5.75	4.26	3.45	KHN4NB1N
7300RPM Vibrating Motor	P12057-ND	5.75	4.26	3.45	KHN5NB1AA

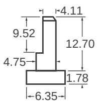
AC/DC Geared Motors

105 Series: Unidirectional operation assured by ball and slot "no-back" system. Motors listed are all clockwise rotation when facing the output shaft. **Characteristics:** Rotor Speed 600 RPM,115V AC, 60 Hz Coil, 2.7 Watts, -20°C to +55°C Operating Temperature. Heat rise +54°C nominal. Motor develops 300 oz. in. Torque starting and running at 1 RPM. Motors shown utilize standard gearing rated for 30 oz. in. max. load. To determine torque available on motors shown, divide 300 oz. in. by listed motor speed.

800I Series DC Gearmotor: Basic 2400 and 4800 armature speed used. Geartrain rating 30 oz. in. dynamic, 90 oz. in. static. Starting and running torque 60oz-in. at 1rpm. These ratings are conventionally stated for output geared to 1rpm. The torque theoretically available at another output speed is the torque at 1rpm divided by the desired speed. Input power 2 Watts. Motor output speed will be higher if load is less than 30 oz. in. Voltages offered 12VDC and 24VDC. DC motors are reversible by reversing polarity at terminals. Operating these motors at voltages greater than 10% of nominal, could possibly cause premature motor failure.

105 Series

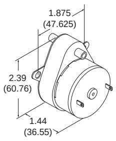




Flatted Round Shaft

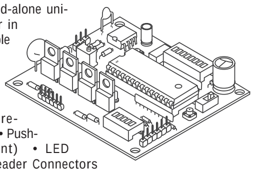
(Std. for both series)

800I Series



Volt.	RPM	Digi-Key Part No.	Price Each 1	10	50	Cramer Part No.
105 Series						
110 VAC	12	CRA101-ND	26.22	22.91	20.70	MBA08AA24AABT542X
	10	CRA102-ND	26.22	22.91	20.70	MBA08AA13MADT542X
	6	CRA103-ND	26.22	22.91	20.70	MBA08AA24FAAT542X
	2	CRA104-ND	26.22	22.91	20.70	MBA08AA1A5ABT542X
	1	CRA105-ND	26.22	22.91	20.70	MBA08AA1C5ABT542X
	1/2	CRA106-ND	26.22	22.91	20.70	MBA08AA26HAAT542X
800I Series						
12 VDC	1	CRA201-ND	46.55	40.67	36.75	DC3275
	10	CRA202-ND	46.55	40.67	36.75	DC3276
	30	CRA203-ND	46.55	40.67	36.75	DC3277
24 VDC	1	CRA204-ND	46.55	40.67	36.75	DC3278
	10	CRA205-ND	46.55	40.67	36.75	DC3279
	30	CRA206-ND	46.55	40.67	36.75	DC3280

Unipolar Stepper Motor Driver Board



The MTSD-V1 can be used as a stand-alone unipolar stepper motor driver board, or in conjunction with a PC or programmable controller for greater flexibility.

Applications: Robotics, Motion Control, Education, Light Duty Industrial • Adjustable On-Board Step Clock (15-1500 hz) • Continuous Run or Pre-settable Step Count from 0-255 steps • Push-button Repeat (pre-set step count) • LED Phase/Step Indicators • .1" SIP Header Connectors (.025" square pins)

"Stand Alone" Functions (Dip Switch Selectable): • Disable/Enable • CW/CCW Direction • Single/Dual Phase Drive • Locked/Free Motor during Disable • Continuous Run/Pre-set Step Count (0-225 steps)

Programmable Controller Input Functions: • Disable/Enable CW/CCW Direction • Pre-set Step Count Repeat • Logic OUTOUT pin to ID end of pre-set step count • External Clock Input (10 KHz max)

Power Requirements: • **Logic Supply:** 5Volts DC @ 50mA • **Motor Supply:** Maximum of 24Volts DC @ 1.85 amps draw • **Board Dimensions:** 3.20" x 2.70" x .875" (81.28mm x 68.58mm x 22.23mm)

MTSD-V1-ND..**$82.40 each**

Stepper Motors

Fig. 1

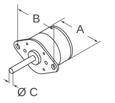
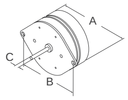


Fig. 2



These stepper motors are very precise DC motors that move a specific degree of rotation with each pulse applied to its coils. Stepper motors can be controlled for either clockwise or counterclockwise rotation and can operate at very high speeds. Shaft speed is not affected by variations in torque. Unipolar motors have two coils wound on the same bobbin (4 coils total) where each winding is sequentially energized, bipolar motors have only two windings and require a push-pull driver to operate. Holding torque is the force regard to hold the shaft with back pressure applied. MNM is millinewton meter + torque

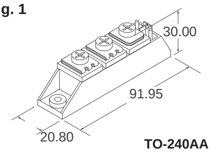
Operating Specification: • **Max. Operating Temperature:** +100°C • **Operating Temperature Range:** -20°C to +70°C • **Bearing Type:** Bronze sleeve • **Insulation Res. at 500Vdc:** 100 megohms • **Dielectric Withstanding Volt.:** 650VRMS 60 Hz for 2 seconds • **Lead Wires:** 26AWG

Fig.	Rated Voltage (VDC)	Type	Motor Size (mm) A	(mm) B	(mm) C	Steps per Rev.	Step Angle (Degrees)	Holding Torque (1) (mNm/oz-in)	Digi-Key Part No.	Price Each	Danaher Part No.
1	5	Bipolar	15	20	1.5	20	18	3.9/.55	403-1000-ND	15.50	15M020D1B
	5	Unipolar	20	34.9	1.5	20	18	7.8/1.1	403-1001-ND	16.20	20M020D1U
	5	Bipolar	20	34.9	1.5	20	18	11.31/1.6	403-1002-ND	15.50	20M020D1B
	12	Unipolar	26	34.9	2	24	15	6.3/0.9	403-1003-ND	16.20	26M024B2U
	12	Unipolar	26	34.9	2	48	7.5	9.2/1.3	403-1004-ND	16.20	26M048B2U
	5	Bipolar	26	34.9	2	48	7.5	10.6/1.5	403-1005-ND	15.46	26M048B1B
	5	Bipolar	36	42	2	48	7.5	27.5/3.9	403-1006-ND	16.50	35L048B1B-N
	12	Unipolar	36	42	2	48	7.5	27.5/3.9	403-1007-ND	17.20	35L048B2U-N
	12	Unipolar	36	42	2	48	7.5	18.4/2.6	403-1008-ND	17.20	35M048B2U
2	5	Bipolar	42	49.5	3	48	7.5	87.5/12.4	403-1009-ND	16.90	42M048C1B
	12	Unipolar	42	49.5	3	48	7.5	73.4/10.4	403-1010-ND	17.80	42M048C2U
	12	Unipolar	42	49.5	3	48	7.5	50.8/7.2	403-1011-ND	17.80	42S048D2U
	5	Bipolar	42	49.5	3	100	3.6	49.4/7.0	403-1012-ND	16.90	42M100B1B
	12	Unipolar	42	49.5	3	100	3.6	45.2/6.4	403-1013-ND	17.80	42M100B2U
	5	Bipolar	44	49.5	3	100	3.6	46.6/6.6	403-1014-ND	17.10	44M100D1B
	12	Bipolar	44	49.5	3	100	3.6	46.6/6.6	403-1015-ND	17.80	44M100D2B
	5	Bipolar	55	66.7	3	48	7.5	221.1/31.4	403-1016-ND	18.00	55M048D1B
	12	Unipolar	55	66.7	3	48	7.5	189.4/26.9	403-1017-ND	18.90	55M048D2U

Note: 1 Holding Torque measured with rated voltage and 2 phases energized.

IXYS
Semiconductors

Fig. 1



TO-240AA

Fig. 1a

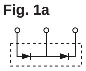


Fig. 1b

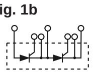


Fig. 1c

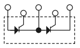


Fig. 2

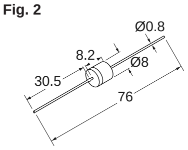
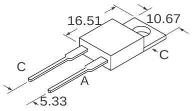
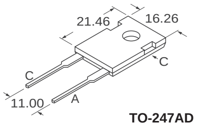


Fig. 3



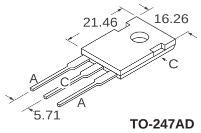
TO-220AC

Fig. 4



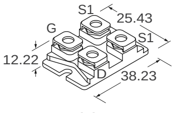
TO-247AD

Fig. 5



TO-247AD

Fig. 6



TO-227B miniBLOC™

Fig. 6a

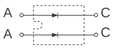


Fig. 6b

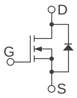


Fig. 6c

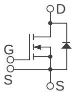
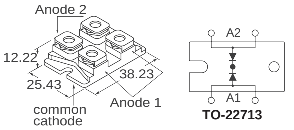
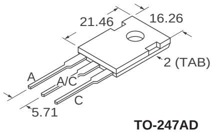


Fig. 7



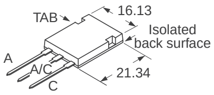
TO-22713

Fig. 8



TO-247AD

Fig. 9



ISOPLUS 247™

Fig. 10

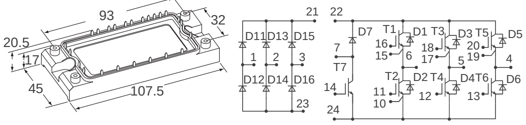
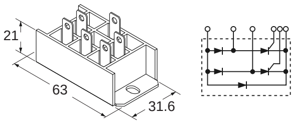


Fig. 11



Description	Package	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Integrated Circuits						
4 Amp Dual Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD404PI-ND	1.68	1.52	1.34	IXDD404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver, with Enable	8-SOIC	IXDD404SI-ND	1.74	1.58	1.39	IXDD404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver, with Enable	16-SOIC	IXDD404SI-16-ND	2.23	2.02	1.80	IXDD404SI-16
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDI404PI-ND	1.68	1.52	1.34	IXDI404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-SOIC	IXDI404SI-ND	1.74	1.58	1.39	IXDI404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	16-SOIC	IXDI404SI-16-ND	2.23	2.02	1.80	IXDI404SI-16
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDN404PI-ND	1.68	1.52	1.34	IXDN404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-SOIC	IXDN404SI-ND	1.74	1.58	1.39	IXDN404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	16-SOIC	IXDN404SI-16-ND	2.23	2.02	1.80	IXDN404SI-16
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDF404PI-ND	1.68	1.52	1.34	IXDF404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-SOIC	IXDF404SI-ND	1.74	1.58	1.39	IXDF404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	16-SOIC	IXDF404SI-16-ND	2.23	2.02	1.80	IXDF404SI-16
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-220-5	IXDD408CI-ND	2.71	2.46	2.20	IXDD408CI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD408PI-ND	2.37	2.15	1.90	IXDD408PI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-SOIC	IXDD408SI-ND	2.50	2.27	2.00	IXDD408SI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-263-5	IXDD408YI-ND	2.90	2.63	2.30	IXDD408YI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-220-5	IXDD414CI-ND	2.71	2.46	2.20	IXDD414CI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD414PI-ND	2.37	2.15	1.90	IXDD414PI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-263-5	IXDD414YI-ND	3.84	3.48	3.10	IXDD414YI
Full-Feature Low-Side Driver	16-Dip	IXBD4410PI-ND	4.03	3.65	3.20	IXBD4410PI
ISOSMART™ Half Bridge Driver Chipset	16-SOIC	IXBD4410SI-ND	4.16	3.77	3.30	IXBD4410SI
ISOSMART™ Half Bridge Driver Chipset	16-Dip	IXBD4411PI-ND	4.07	3.69	3.30	IXBD4411PI
ISOSMART™ Half Bridge Driver Chipset	16-SOIC	IXBD4411SI-ND	4.20	3.80	3.40	IXBD4411SI
Inverter Interface and Digital Deadtime Generator for 3-Phase PWM Controls	18-Dip	IXDP630PI-ND	4.74	3.95	3.20	IXDP630PI
High Performance Dual PWM Microstepping Controller	24-Dip	IXMS150PSI-ND	9.21	7.68	6.20	IXMS150PSI
Gate Driver IC Evaluation Board	—	EVDD404-ND	87.51	72.93	58.40	EVDD404
Gate Driver IC Evaluation Board	—	EVDD408-ND	87.51	72.93	58.40	EVDD408
Gate Driver IC Evaluation Board	—	EVDD414-ND	99.99	83.33	66.70	EVDD414

Fig.	V_{RRM} V	I_{FAV} @ A	T_C °C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Diode Module									
1a	1200	2x120	105	2x180	MDD95-12N1B-ND	36.63	30.53	24.50	MDD95-12N1B
Avalanche Diode									
2	1600	3.6	45	7	DSA2-16A-ND	4.03	3.65	3.20	DSA2-16A

Fig.	V_{RRM} V	I_{FAV} @ A	T_C °C	t_{rr} typ. T_{VJ} = 25°C ns	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Fast Recovery Epitaxial Diodes (FRED)									
3	600	8	115	35	DSEI8-06A-ND	.65	.59	.52	DSEI8-06A
	600	14	100	35	DSEI12-06A-ND	.88	.80	.70	DSEI12-06A
	1000	12	100	50	DSEI12-10A-ND	.97	.88	.77	DSEI12-10A
	1200	11	100	50	DSEI12-12A-ND	1.13	1.03	.91	DSEI12-12A
	1200	17	85	40	DSEI20-12A-ND	1.45	1.32	1.16	DSEI20-12A

Fig.	V_{RRM} V	I_{FAV} @ A	T_C °C	t_{rr} typ. T_{VJ} = 25°C ns	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
4	600	37	85	35	DSEI30-06A-ND	1.95	1.77	1.55	DSEI30-06A
	1000	30	85	35	DSEI30-10A-ND	2.84	2.57	2.30	DSEI30-10A
	1200	26	85	40	DSEI30-12A-ND	3.21	2.91	2.60	DSEI30-12A
	600	60	70	35	DSEI60-06A-ND	3.05	2.76	2.50	DSEI60-06A
	1000	60	60	35	DSEI60-10A-ND	4.03	3.65	3.20	DSEI60-10A
	1200	52	60	40	DSEI60-12A-ND	4.66	4.22	3.70	DSEI60-12A
5	600	2x30	85	35	DSEK60-06A-ND	4.37	3.96	3.50	DSEK60-06A
6a	200	2x123	70	35	DSEI2X121-02A-ND	31.32	26.10	20.90	DSEI2X121-02A
	600	2x60	70	35	DSEI2X61-06C-ND	17.91	14.93	12.00	DSEI2X61-06C
	1000	2x60	50	35	DSEI2X61-10B-ND	21.72	18.10	14.50	DSEI2X61-10B
	600	2x106	70	35	DSEI2X101-06A-ND	26.73	22.28	17.90	DSEI2X101-06A
	1000	2x30	50	35	DSEI2X31-10B-ND	15.60	13.00	10.40	DSEI2X31-10B
HIPerFRED™ Epitaxial Diode with Soft Recovery									
4	600	30	135	35	DSEP30-06A-ND	2.31	2.09	1.90	DSEP30-06A
	1200	30	115	40	DSEP30-12A-ND	3.63	3.29	2.90	DSEP30-12A
6a	600	2x60	65	35	DSEP2X61-06A-ND	28.41	23.68	18.20	DSEP2X61-06A

Fig.	V_{RRM} V	I_{FAV} @ A	T_C °C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Phase-Leg Rectifier Diode									
8	1200	2x28	100	2x43	DSP25-12A-ND	2.65	2.40	2.10	DSP25-12A
	1600	2x28	100	2x43	DSP25-16A-ND	3.05	2.76	2.50	DSP25-16A
ISOPLUS247™ Phase-Leg Rectifier Diode									
9	1600	2x28	100	2x43	DSP25-16AR-ND	4.26	3.86	3.40	DSP25-16AR

Three Phase Rectifier	Brake Chopper	Three Phase Inverter	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Converter-Brake-Inverter Modules - Fig. 10							
VRRM = 1600V IDAVM = 26A IFSM = 160A	VCES = 600V IC25 = 20A VCE(sat) = 1.9V	VCES = 600V IC25 = 20A VCE(sat) = 1.9V	MUBW10-06A7-ND	66.24	55.20	44.20	MUBW10-06A7
VRRM = 1600V IDAVM = 26A IFSM = 160A	VCES = 1200V IC25 = 20A VCE(sat) = 2.3V	VCES = 1200V IC25 = 20A VCE(sat) = 2.3V	MUBW10-12A7-ND	76.95	64.13	51.30	MUBW10-12A7
VRRM = 1600V IDAVM = 36A IFSM = 300A	VCES = 1200V IC25 = 20A VCE(sat) = 2.9V	VCES = 1200V IC25 = 50A VCE(sat) = 2.2V	MUBW25-12A7-ND	111.99	93.33	74.70	MUBW25-12A7

Fig.	V_{RRM} V	I_{FAV} @ A	T_C °C	V_F V	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Power Schottky Rectifier									
3	45	16	160	0.57	DSS16-0045A-ND	1.22	1.11	.96	DSS16-0045A
5	15	2x20	135	0.32	DSSK40-0015B-ND	2.35	2.13	1.90	DSSK40-0015B
	45	2x30	150	0.60	DSSK60-0045A-ND	3.09	2.80	2.50	DSSK60-0045A
	150	2x30	155	0.69	DSSK60-015A-ND	5.27	4.77	4.20	DSSK60-015A
	15	2x35	130	0.33	DSSK70-0015B-ND	3.32	3.01	2.70	DSSK70-0015B
	45	2x40	125	0.45	DSSK80-0045B-ND	4.18	3.79	3.40	DSSK80-0045B
6a	100	2x40	110	0.70	DSS2X41-01A-ND	21.18	17.65	14.20	DSS2X41-01A
	100	2x60	105	0.73	DSS2X61-01A-ND	24.33	20.28	16.30	DSS2X61-01A
	45	2x60	105	0.66	DSS2X61-0045A-ND	18.33	15.28	12.30	DSS2X61-0045A
	45	2x120	100	0.59	DSS2X121-0045B-ND	35.73	29.78	23.00	DSS2X121-0045B
7	100	2x160	95	0.80	DSS2X160-01A-ND	38.40	32.00	25.60	DSS2X160-01A

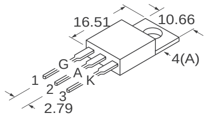
Fig.	V_{RRM} V	I_{dAVM} @ A	T_K °C	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Half Controlled Single Phase Rectifier Bridge with Freewheeling Diode								
11	1600	32	85	VHF28-16IO5-ND	42.18	35.15	28.20	VHF28-16IO5

Fig.	VAK V	ID TC = 25°C A	IAP typ. mA	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Adjustable Current Regulators								
12	450	-0.3	10	IXCP10M45S-ND	1.70	1.54	1.35	IXCP10M45S

(Continued)

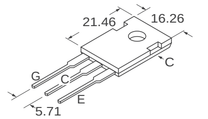
IXYS Semiconductors *(Cont.)*

Fig. 12



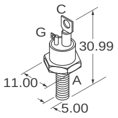
TO-220 AB

Fig. 13



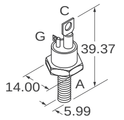
TO-247AD

Fig. 14



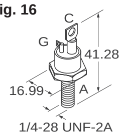
TO-64

Fig. 15



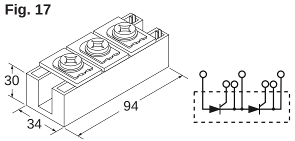
TO-48

Fig. 16



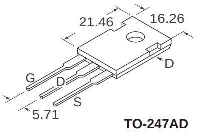
TO-65

Fig. 17



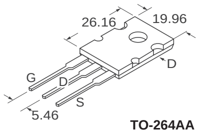
MCC162

Fig. 18



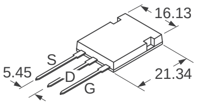
TO-247AD

Fig. 19



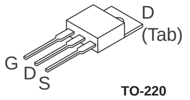
TO-264AA

Fig. 20



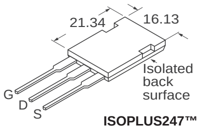
PLUS247™

Fig. 21



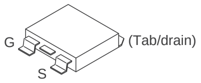
TO-220

Fig. 22



ISOPLUS247™

Fig. 23



TO-268

Fig.	V_{CES} V	I_C T_C = 25°C A	V_{CE} (sat) typ. V	t_{rr} 25°C ns	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
High Voltage BIMOSFET™ Monolithic Bipolar MOS Transistor									
13	1600	15	5.8	40	IXBH15N160-ND	9.95	9.01	8.00	IXBH15N160

Fig.	V_{CES} V	I_C T_C = 25°C A	V_{CE} (sat) max. V	t_{rr} typ. 25°C ns	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
IGBTs — Insulated Gate Bipolar Transistors – High Speed									
13	600	48	2.7	275	IXGH24N60A-ND	6.20	5.61	4.98	IXGH24N60A
	600	75	2.7	275	IXGH50N60A-ND	17.01	15.39	13.66	IXGH50N60A
	600	48	2.5	80	IXGH24N60B-ND	5.73	5.19	4.60	IXGH24N60B
	600	48	2.5	60	IXGH24N60C-ND	5.92	5.36	4.70	IXGH24N60C
	600	60	2.5	55	IXGH32N60C-ND	6.97	6.31	5.60	IXGH32N60C
	600	75	2.5	150	IXGH50N60B-ND	10.96	9.92	8.70	IXGH50N60B
IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack – low V_{CE} (sat)									
13	1000	20	3.5	800	IXGH10N100U1-ND	11.66	10.55	9.37	IXGH10N100U1
	1000	34	3.5	750	IXGH17N100U1-ND	11.91	10.78	9.57	IXGH17N100U1
IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack – High Speed									
13	600	48	2.7	275	IXGH24N60AU1-ND	9.49	8.59	7.63	IXGH24N60AU1
	600	60	1.8	100	IXGH30N60BD1-ND	10.27	9.30	8.20	IXGH30N60BD1
	600	60	2.5	55	IXGH32N60CD1-ND	8.82	7.98	7.00	IXGH32N60CD1
	600	55	2.5	70	IXSH30N60CD1-ND	10.56	9.56	8.40	IXSH30N60CD1
	1000	20	4.0	500	IXGH10N100AU1-ND	11.30	10.23	9.09	IXGH10N100AU1
	1000	34	4.0	450	IXGH17N100AU1-ND	12.08	10.93	9.71	IXGH17N100AU1

Fig.	V_{DRM} V	I_{TAV} T_C = 85°C A	I_{TRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Phase Control SCRs								
14	800	16	25	CS8-08IO2-ND	9.42	7.85	6.30	CS8-08IO2
	1200	16	25	CS8-12IO2-ND	10.35	8.63	6.90	CS8-12IO2
15	800	25	50	CS23-08IO2-ND	11.25	9.38	7.50	CS23-08IO2
	1200	25	50	CS23-12IO2-ND	13.05	10.88	8.70	CS23-12IO2
16	800	60	120	CS35-08IO4-ND	14.64	12.20	9.80	CS35-08IO4
	1200	60	120	CS35-12IO4-ND	16.11	13.43	10.80	CS35-12IO4
	1400	60	120	CS35-14IO4-ND	19.29	16.08	12.90	CS35-14IO4

Fig.	V_{DRM} V	I_{TAV} @ A	T_C °C	I_{TRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
SCR Module									
1b	1200	2x116	85	2x180	MCC95-12IO1B-ND	46.74	38.95	31.20	MCC95-12IO1B
	1600	116	85	180	MCC95-16IO8B-ND	53.88	44.90	36.00	MCC95-16IO8B
	1600	2x32	85	2x50	MCC26-16IO1B-ND	30.09	25.08	20.10	MCC26-16IO1B
1c	1600	2x116	85	2x180	MCC95-16IO1B-ND	54.42	45.35	36.30	MCC95-16IO1B
17	1600	2x190	85	2x300	MCC162-16IO1-ND	126.72	105.60	84.50	MCC162-16IO1

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	$R_{DS(on)}$ T_C = 25°C Ω	t_{rr} typ. 25°C ns	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
MOSFETs — N-Channel Enhancement-Mode									
18	500	14	0.4	500	IRFP450X-ND	3.11	2.82	2.50	IRFP450
MegaMOSFET™ — N-Channel Enhancement Mode - High Voltage									
18	1100	13	0.920	≤850	IXTH13N110-ND	16.74	15.15	13.30	IXTH13N110
MegaMOSFET™ N-Channel Enhancement Mode									
6c	1000	21	0.550	≤1000	IXTN21N100-ND	43.68	39.52	35.10	IXTN21N100
18	500	20	0.27	570	IRFP460IX-ND	5.84	5.29	4.70	IRFP460
18	600	20	0.35	600	IXTH20N60-ND	9.91	8.97	7.90	IXTH20N60
MOSFETs — N-Channel Enhancement-Mode with Fast Intrinsic Diode									
18	70	76	0.011	150	IXFH76N07-11-ND	7.79	7.05	6.20	IXFH76N07-11
	70	76	0.012	150	IXFH76N07-12-ND	7.41	6.71	5.90	IXFH76N07-12
	100	80	0.015	≤200	IXFH80N10Q-ND	11.00	9.96	8.80	IXFH80N10Q
	200	42	0.06	200	IXFH42N20-ND	13.50	12.22	10.85	IXFH42N20
	200	50	0.045	200	IXFH50N20-ND	7.79	7.05	6.20	IXFH50N20
	200	58	0.04	200	IXFH58N20-ND	8.15	7.38	6.50	IXFH58N20
	200	58	0.040	≤200	IXFH58N20Q-ND	8.15	7.38	6.50	IXFH58N20Q
	200	80	0.028	≤200	IXFH80N20Q-ND	11.72	10.61	9.30	IXFH80N20Q
	300	40	0.08	200	IXFH40N30-ND	7.94	7.19	6.40	IXFH40N30

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	$R_{DS(on)}$ T_C = 25°C Ω	t_{rr} typ. 25°C ns	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
18	300	40	0.085	≤200	IXFH40N30Q-ND	7.94	7.19	6.30	IXFH40N30Q
	300	40	0.085	400	IXTH40N30-ND	10.27	9.30	8.20	IXTH40N30
	300	52	0.060	≤250	IXFH52N30Q-ND	12.10	10.95	9.60	IXFH52N30Q
	500	13	0.4	250	IXFH13N50-ND	4.10	3.71	3.30	IXFH13N50
	500	21	0.25	250	IXFH21N50-ND	9.87	8.93	7.94	IXFH21N50
	500	24	0.23	250	IXFH24N50-ND	7.56	6.84	6.00	IXFH24N50
	500	26	0.20	250	IXFH26N50-ND	7.98	7.22	6.40	IXFH26N50
	500	26	0.20	≤250	IXFH26N50Q-ND	7.98	7.22	6.40	IXFH26N50Q
	500	32	0.15	≤250	IXFH32N50-ND	12.96	11.73	10.30	IXFH32N50
	600	20	0.35	250	IXFH20N60-ND	9.09	8.23	7.30	IXFH20N60
	600	26	0.250	≤250	IXFH26N60Q-ND	11.61	10.51	9.30	IXFH26N60Q
	800	7	1.4	250	IXFH7N80-ND	6.99	6.33	5.62	IXFH7N80
	800	11	0.95	250	IXFH11N80-ND	18.94	17.14	15.23	IXFH11N80
	800	13	0.80	250	IXFH13N80-ND	10.04	9.09	8.00	IXFH13N80
	800	15	0.60	250	IXFH15N80-ND	13.25	11.99	10.60	IXFH15N80
	800	15	0.600	≤250	IXFH15N80Q-ND	13.25	11.99	10.60	IXFH15N80Q
	800	20	0.420	≤250	IXFH20N80Q-ND	14.66	13.27	11.70	IXFH20N80Q
	900	6	1.8	250	IXFH6N90-ND	8.11	7.34	6.51	IXFH6N90
	900	10	1.1	250	IXFH10N90-ND	17.56	15.89	14.11	IXFH10N90
	1000	6	2.0	250	IXFH6N100-ND	6.89	6.24	5.50	IXFH6N100
	1000	10	1.2	250	IXFH10N100-ND	12.75	11.54	10.20	IXFH10N100
	1000	12	1.05	250	IXFH12N100-ND	13.44	12.16	10.70	IXFH12N100
19	70	110	0.006	150	IXFK110N07-ND	20.37	18.43	16.36	IXFK110N07
	100	180	0.008	≤250	IXFK180N10-ND	23.28	19.40	15.60	IXFK180N10
	200	90	0.020	200	IXFK90N20-ND	15.81	14.31	12.81	IXFK90N20
	200	90	0.022	≤200	IXFK90N20Q-ND	22.59	18.83	15.10	IXFK90N20Q
	200	120	0.017	≤250	IXFK120N20-ND	24.42	20.35	16.30	IXFK120N20
	300	73	0.045	≤200	IXFK73N30-ND	23.31	19.43	15.60	IXFK73N30
	500	48	0.10	250	IXFK48N50-ND	25.65	21.38	17.10	IXFK48N50
	500	55	0.085	250	IXFK55N50-ND	31.89	26.58	21.30	IXFK55N50
	600	36	0.180	≤250	IXFK36N60-ND	26.49	22.08	17.70	IXFK36N60
	600	44	0.130	≤250	IXFK44N60-ND	27.60	23.00	18.40	IXFK44N60
	800	27	0.300	≤250	IXFK27N80-ND	28.65	23.88	19.10	IXFK27N80
	800	34	0.240	≤250	IXFK34N80-ND	29.40	24.50	19.60	IXFK34N80
	1000	24	0.390	≤250	IXFK24N100-ND	32.25	26.88	21.50	IXFK24N100
20	200	120	0.017	≤250	IXFX120N20-ND	15.23	13.78	12.10	IXFX120N20
	500	55	0.080	≤250	IXFX55N50-ND	22.68	20.52	18.00	IXFX55N50
	1000	15	0.70	≤200	IXFX15N100-ND	14.28	12.92	11.40	IXFX15N100
MOSFETs — N-Channel Enhancement-Avalanche Rated, High Voltage									
21	1200	3	4.5	≤200	IXTP3N120-ND	6.09	5.51	4.90	IXTP3N120
MOSFETs — MiniBLOC™ N-Channel Enhancement-Mode with Fast Intrinsic Diode									
6a	70	200	0.006	150	IXFN200N07-ND	37.17	30.98	24.80	IXFN200N07
	200	106	0.020	200	IXFN106N20-ND	38.64	34.96	31.05	IXFN106N20
	200	180	0.010	≤250	IXFN180N20-ND	62.49	52.08	41.70	IXFN180N20
	500	44	0.12	≤250	IXFN44N50-ND	33.99	28.33	22.70	IXFN44N50
	500	48	0.10	250	IXFN48N50-ND	33.30	27.75	22.20	IXFN48N50
	1000	36	0.24	180	IXFN36N100-ND	83.16	69.30	55.50	IXFN36N100
20	100	180	0.008	≤250	IXFX180N10-ND	15.39	13.93	12.30	IXFX180N10
6b	200	120	0.017	≤250	IXFN120N20-ND	40.77	33.98	27.20	IXFN120N20
6c	500	80	0.050	≤250	IXFN80N50-ND	68.85	57.38	45.90	IXFN80N50
	600	60	0.075	≤250	IXFN60N60-ND	73.02	60.85	48.70	IXFN60N60
	900	26	0.300	≤250	IXFN26N90-ND	48.81	40.68	32.60	IXFN26N90
	1000	24	0.390	≤250	IXFN24N100-ND	48.36	40.30	32.30	IXFN24N100
	300	73	0.045	≤200	IXFN73N30-ND	40.20	33.50	26.80	IXFN73N30
	300	130	0.018	≤250	IXFN130N30-ND	68.49	57.08	45.70	IXFN130N30
	600	36	0.18	≤250	IXFN36N60-ND	43.35	36.13	28.90	IXFN36N60
MOSFETs — ISOPLUS247™ N-Channel Enhancement-Mode with Fast Intrinsic Diode									
22	100	165	0.008	≤250	IXFR180N10-ND	17.60	15.93	14.00	IXFR180N10
	200	105	0.017	≤250	IXFR120N20-ND	17.96	16.25	14.30	IXFR120N20
	600	38	0.130	≤250	IXFR44N60-ND	20.20	18.28	16.10	IXFR44N60
MOSFETs — N-Channel Enhancement-Mode Avalanche Rated									
20	200	90	0.022	≤200	IXFX90N20Q-ND	14.60	13.21	11.60	IXFX90N20Q
	300	90	0.033	≤250	IXFX90N30-ND	15.98	14.46	12.70	IXFX90N30
	600	44	0.130	≤250	IXFX44N60-ND	17.60	15.93	14.00	IXFX44N60
	800	34	0.240	≤250	IXFX34N80-ND	18.48	16.72	14.70	IXFX34N80
23	200	58	0.040	≤200	IXFT58N20Q-ND	11.66	10.55	9.30	IXFT58N20Q
	300	40	0.080	≤250	IXFT40N30Q-ND	10.27	9.30	8.20	IXFT40N30Q
	300	52	0.060	≤250	IXFT52N30Q-ND	14.53	13.15	11.60	IXFT52N30Q
	500	32	0.150	≤250	IXFT32N50Q-ND	13.15	11.90	10.50	IXFT32N50Q
MOSFETs — P-Channel Enhancement Mode Avalanche Rated									
18	-500	-7	1.500	≤500	IXTH7P50-ND	8.69	7.87	7.00	IXTH7P50
	-500	-8	1.200	≤500	IXTH8P50-ND	9.16	8.29	7.30	IXTH8P50
	-500	-10	0.900	≤500	IXTH10P50-ND	10.67	9.66	8.50	IXTH10P50
	-500	-11	0.750	≤500	IXTH11P50-ND	11.87	10.74	9.50	IXTH11P50

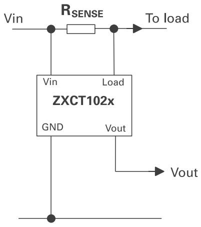
ZETEX SEMICONDUCTORS Semiconductor Solutions for Power and Signal Management

High Side Current Monitors

The ZXCT series high side current monitors convert a proportional sensed voltage in the supply to ground. The ZXCT1021 provides a fixed gain of 10, while the ZXCT1022 has a gain of 100, for applications where minimal sense voltage is required. The very low offset voltage enables a typical accuracy of 2% for sense voltages of only 10mV, giving better tolerances for small sense resistors necessary at higher currents.

Features:
- Precision high side current sensing
- Output voltage gains of 10 and 100
- 2.5V - 20V supply range
- <220µA quiescent current
- 2% accuracy @ 10mV

Applications:
- Battery chargers
- Smart battery packs
- Current limiting
- DC motor control
- Power management



Part Number	Description	VIN (V)	Accuracy@ VSENSE	Typical Quiescent Current (µA)	Gain Output/VSENSE	Bandwidth (MHz)	Package
ZXCT1009	Simple current monitor	2.5 to 20	+/-2.5%@ 100mV	5	User defined	2	SOT23
ZXCT1010	Enhanced Offset	2.5 to 20	+/-2.5%@ 100mV	4	User defined	2	SOT23-5
ZXCT1021	For low sense voltage	2.5 to 20	+/-2.5%@ 10mV	25	10	1	SOT23-5
ZXCT1022	For low sense voltage	2.5 to 20	+/-2.5%@ 10mV	25	100	1	SOT23-5
ZXCT1030	With internal ref. and comparator	2.5 to 20	+/-3%@ 100mV	220	10	10	MSOP8

Voltage References and Shunt Regulators

Zetex' range of industry standard voltage references and shunt voltage regulators provides excellent performance in small packages, enabling full compatibility in most cases and the opportunity to reduce power consumption or increase temperature ratings.

Product Summary:
- ZR431 - LM431 shunt equivalent with 2.5V/1.25V bandgaps, 2%, 1% and 0.5% tolerance
- ZR4040 - LM4040 equivalent with 2%, 1% and 0.5% tolerance
- ZXRE125 / ZR285 - LM185/285 equivalents with 1% and 0.5% tolerance
- ZXLT1004 - LT1004 micropower equivalent
- Small SOT23 package

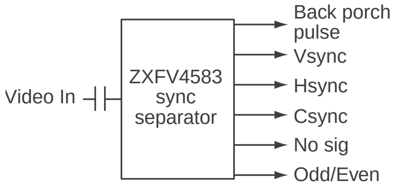
Applications:
- ZR431 type for switch mode power supplies
- Fixed shunt types for precision power supplies and notebook/palmtop computers
- ZXLT1004 for battery powered equipment

Video Sync Separator

Zetex has introduced a video sync separator for use with PAL, NTSC, SECAM and other synchronization systems. This SO16 packaged product is pin and performance compatible with industry standard parts.

Features:
- On-chip color burst filter
- Accurate 50% sync slicing
- On-chip sample/hold capacitor
- Industry standard pin-out

Applications:
- Video distribution
- CCTV surveillance
- Digital image capture
- Digital multimedia



N and P-Channel MOSFETs

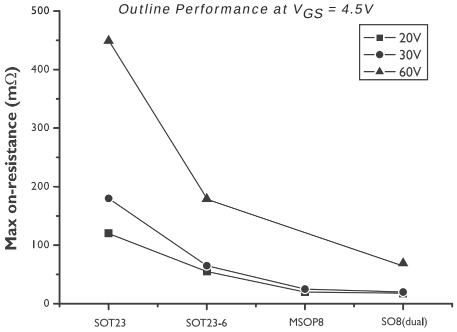
Using both planar and trench technology Zetex has produced a wide portfolio of N and P-Channel MOSFETs, operating up to 450V.

These offer very low on-resistance, low gate charge and high current handling for small packages. This has resulted in devices providing efficient solutions in higher frequency switching applications.

Complementary N and P-Channel devices have been combined in the SO8 package to offer users higher performance operations and to save board space.

Features:
- Trench technology
- Low on-resistance
- Low gate charge
- Selection of surface mount packages
- Single, dual and complementary types

Applications:
- DC-DC conversion
- Power line disconnect switching
- Motor driving
- CCFL backlight inverters
- Audio output stages



www.zetex.com/digikey

Audio Amplifier Solutions — The Zetex Acoustar™ Range

Class D — ZXCD Series

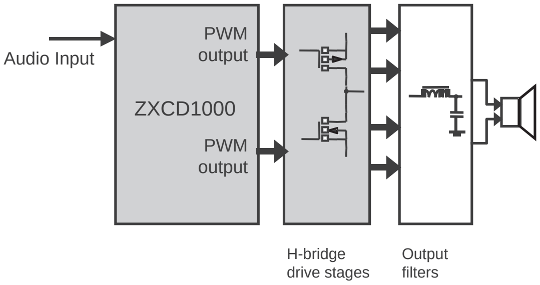
THD+N up to ten times better than competitive solutions!

The Zetex ZXCD1000 forms the heart of a high efficiency, analog input, Class D switching audio amplifier solution. It provides complete control and modulation functions, translating audio input signals into PWM drive to a MOSFET based bridge tied load output.

Used in combination with Zetex MOSFETs, reference designs and matched standard magnetics, the ZXCD1000 offers an exceptionally high performance amplifier with all the inherent benefits of Class D.

25W to 100W reference guide for mono, stereo and 5.1 systems are available on **www.zetex.com/audiodesigns**

The Zetex Class D audio amplifier solution can be evaluated using the ZXCD50STEVAL. This stereo board enables the solution to be demonstrated with output music power to 50W.



Audio Performance:
- <0.2% THD+N up to 90% full power
- Noise floor - 115dB
- No crossover distortion

Unique Benefits:
- Exceptional sound quality
- >90% efficiency
- More power in a smaller space
- Lower cost per watt

ZXCD50STEVAL-ND	Demonstration Board	**$133.00**

Digital — ZXCW Series

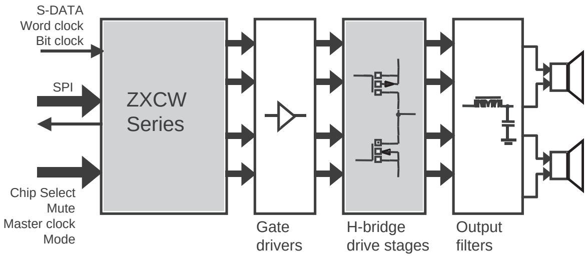
Exceptional audio performance from an 'end-to-end' digital audio amplifier.

Zetex ZXCW series digital audio amplifiers provide an 'end-to-end' solution for applications where quality audio amplification is required from a digital audio source such as CD or DVD.

The ZXCW devices feature 2 channels of signal processing including volume, treble, bass and mute facilities as well as overload and clip management.

When combined with Zetex MOSFETs in a bridge tied load configuration, the ZXCW series offers exceptional sound quality compared to alternative solutions.

The ZXCW circuit is evaluated using the ZXCW502CEVAL demonstration board. This board features an S/PDIF input for the digital audio which is then converted and delivered to the audio amplifier. Control is facilitated via a PC serial port and provided software GUI. The amplifier itself delivers an output power of 50W music into a 4Ω load.



Audio Performance:
- THD+N 0.04% @ 1W
- Noise floor -120dB
- 94dB dynamic range
- Frequency response flat 20Hz to 20kHz

Unique Benefits:
- Excellent sound quality
- Two channels easily expandable up to 4
- Compatible with all common audio sources
- 192kHz sampling
- 32 bit resolution

ZXCW502CEVAL-ND	Two Channel 50W Digital Audio Demonstration Board	**$599.00**

Zetex provides high value, system level solutions based on a unique portfolio of integrated, discrete and combination analog products.

LED/LCD Driver Solutions

The inherent flexibility of the ZXSC circuit means that parallel or series LEDs can be driven depending on application needs. A simple modification to the application circuit means that the maximum pulse current can be programmed to match the characteristics of the chosen LED load, and pulse current in the range 10mA to 3A and beyond can be easily achieved.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing
Boost Converter for LCD Bias	10-MSOP	ZXLB1600X10TACT-ND	1.93	1.65	1.52	ZXLB1600X10TATR-ND	1,000	935.00
Evaluation Board for ZXSC100	—	ZXSC100-EVAL-ND*	50.00	—	—	—	—	—
Boost Converter, 1 Cell	8-SOIC	ZXSC100N8CT-ND	1.75	1.50	1.38	ZXSC100N8TR-ND	500	525.00
Boost Converter, 1 Cell	MSOP-8	ZXSC100X8CT-ND	1.75	1.50	1.38	ZXSC100X8TR-ND	1,000	850.00
Boost Converter, 1 Cell LED	SOT-23-5	ZXSC300E5CT-ND	.84	.72	.66	ZXSC300E5TR-ND	3,000	432.00/M
Boost Converter, 1 Cell LED	SOT-23-5	ZXSC310CT-ND	.91	.84	.72	ZXSC310TR-ND	3,000	390.00/M
Evaluation Board for ZXSC310E5TA	—	ZXSC310EV-ND*	55.10	—	—	—	—	—
Boost Converter LED Driver with Shutdown	SOT-23-6	ZXSC400E6TACT-ND	1.16	.99	.91	ZXSC400E6TATR-ND	3,000	495.00/M
Boost Converter	SOT-23-6	ZXSC410E6TACT-ND	1.05	.90	.83	ZXSC410E6TATR-ND	3,000	450.00/M
Boost Converter	SOT-23-6	ZXSC420E6TACT-ND	1.05	.90	.83	ZXSC420E6TATR-ND	3,000	450.00/M

*Bulk Pricing

Power Management

The ZXCT range of high side current monitors and current sense amplifiers provide elegant design solutions for current measurement and power control.

ZXCT1009: The ZXCT1009, current sensing monitor, takes a high side voltage developed across a current shunt resistor and acting as a current mirror translates it into a scaled ground referenced voltage.

ZXCT1010: The ZXCT1010 offers reduced typical offset and improved accuracy at low sense voltages.

ZXCT1021/1022: The ZXCT1021/1022, current sense amplifiers, are particularly suited to low sense voltage applications.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing
LNA, 18dB Gain, Low Current Amplifier	SC70-6	ZAMP001H6CT-ND *NEW!*	1.05	.90	.83	ZAMP001H6TR-ND *NEW!*	3,000	450.00/M
Medium Power, 22dB Gain, Wide Dynamic Range Amplifier	SC70-6	ZAMP002H6CT-ND *NEW!*	1.05	.90	.83	ZAMP002H6TR-ND *NEW!*	3,000	450.00/M
LNA, 15dB Gain, Very Low Current Amplifier	SC70-6	ZAMP003H6CT-ND *NEW!*	1.05	.90	.83	ZAMP003H6TR-ND *NEW!*	3,000	450.00/M
Switched Capacitor DC to DC Converter	SOT-23-6	ZXCP330E6TACT-ND	1.58	1.35	1.24	ZXCP330E6TATR-ND	3,000	675.00/M
High-Side Current Monitor	SOT-23	ZXCT1009FCT-ND	.74	.63	.58	ZXCT1009FTR-ND	3,000	315.00/M
High-Side Current Monitor	SM-8	ZXCT1009T8CT-ND	1.44	1.23	1.13	ZXCT1009T8TR-ND	2,000	697.00/M
Current Monitor	SOT-23-5	ZXCT1010CT-ND	1.20	1.11	.95	ZXCT1010TR-ND	3,000	516.00/M
High Side Current Monitor	SOT-23-5	ZXCT1021E5TACT-ND	1.23	1.05	.97	ZXCT1021E5TATR-ND	3,000	525.00/M
High Side Current Monitor	SOT-23-5	ZXCT1022E5TACT-ND	1.23	1.05	.97	ZXCT1022E5TATR-ND	3,000	525.00/M
Adjustable PWM DC/DC Controller	16-QSOP	ZXRD100ANQ16CT-ND	4.28	3.22	1.93	ZXRD100ANQ16TR-ND	500	474.81
Adjustable PWM DC/DC Controller	16-QSOP	ZXRD100APQ16CT-ND	4.28	3.22	1.93	ZXRD100APQ16TR-ND	500	474.81
3.3V PWM DC/DC Controller	16-QSOP	ZXRD1033NQ16CT-ND	4.28	3.22	1.93	ZXRD1033NQ16TR-ND	500	474.81
3.3V PWM DC/DC Controller	16-QSOP	ZXRD1033PQ16CT-ND	4.28	3.22	1.93	ZXRD1033PQ16TR-ND	500	474.81
5.0V PWM DC/DC Controller	16-QSOP	ZXRD1050NQ16CT-ND	4.28	3.22	1.93	ZXRD1050NQ16TR-ND	500	474.81
5.0V PWM DC/DC Controller	16-QSOP	ZXRD1050PQ16CT-ND	4.28	3.22	1.93	ZXRD1050PQ16TR-ND	500	474.81

Audio/Video Solutions

The Zetex range of video solutions has been expanded by the addition of a sync separator and a DC restore amplifier. The ZXFV4583 separates out the embedded sync information from PAL, NTSC, SECAM and other analog video signals. The ZXFV4089 uses a sync pulse (typically from a sync separator) to restore the video black level to the correct DC voltage. The high speed amplifiers/buffers include quad and single amplifiers plus multi-channel unity-gain buffers. The ZXFV202, single video amplifier, is available in SOT23 and SO8 offering superb differential gain and phase performance of 0.01%/0.01° respectively. ZXFV301N16 and ZXFV302N16 4:1 multiplexers are for use in video and other high speed applications. For greater versatility the ZXFV301/302 have different channel selection plus an output enable.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing
Sync Separator with Variable Filter	16-SOIC	ZXFV4583N16CT-ND	7.98	6.84	6.27	ZXFV4583N16TR-ND	1,000	3876.00
Video Amplifier with DC Restoration	8-SOIC	ZXFV4089N8CT-ND	4.14	3.55	3.26	ZXFV4089N8TR-ND	1,000	2009.40
4:1 Channel Video Multiplexer	16-SOIC	ZXFV301N16CT-ND	6.16	5.28	4.84	ZXFV301N16TR-ND	1,000	2992.00
4:1 Channel Video Multiplexer	16-SOIC	ZXFV302N16TACT-ND	5.81	4.98	4.57	ZXFV302N16TATR-ND	500	1103.90
Single Video Amplifier in SOT23	SOT-23-5	ZXFV202E5CT-ND	1.72	1.47	1.35	ZXFV202E5TR-ND	3,000	735.00/M
Single Video Amplifier in SO8	8-SOIC	ZXFV202N8TACT-ND	1.51	1.29	1.19	ZXFV202N8TATR-ND	500	451.50
Quad Channel Video Amplifier	14-SOIC	ZXFV201N14CT-ND	4.14	3.55	3.26	ZXFV201N14TR-ND	500	1241.10
4 Channel Buffer	14N	ZXFBF04N14CT-ND	3.15	2.70	2.48	ZXFBF04N14TR-ND	500	945.00
4 Channel High Capacitance Buffer	14N	ZXFBF05N14CT-ND	3.15	2.70	2.48	ZXFBF05N14TR-ND	500	945.00
8 Channel Buffer	20W	ZXFBF08W20CT-ND	5.08	4.35	3.99	ZXFBF08W20TR-ND	1,000	2465.00
Variable Q Filter with Mixer	QSOP-16	ZXF103Q16CT-ND	5.25	4.50	4.13	ZXF103Q16TR-ND	500	1575.00
Evaluation Board for ZXFV103Q16CT	—	ZXF103EV-ND*	31.20	—	—	—	—	—
Variable Q Notch/Bandpass Filter	24-SOIC(W)	ZXF36L01W24-ND*	11.41	9.20	6.40	—	—	—
Evaluation Board for ZXF36L01W24	—	ZXF36L01-EVB-ND*	24.00	—	—	—	—	—

*Bulk Pricing

Switching Audio Amplifier Solutions

Zetex brings together vast device design expertise with advanced product capability and many years of audio systems design to create innovative audio solutions which meet all of these needs: • Exceptional sound quality • A smaller space • Less power • Affordable price

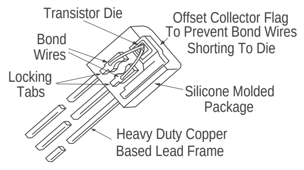
Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing
50W Class D Evaluation Board	—	ZXCD50STEVAL-ND*	133.00	—	—	—	—	—
Class D Amplifier Controller IC	QSOP-16	ZXCD1000EQ16CT-ND	4.06	3.48	3.19	ZXCD1000EQ16TR-ND	500	1218.00
Class D Audio Amplifier Solution Kit, Mono	—	ZXCD1000MOKIT-ND*	10.23	8.07	5.90	—	—	—
Class D Audio Amplifier Solution Kit, Stereo	—	ZXCD1000STKIT-ND*	20.71	16.35	11.93	—	—	—
2-Channel 50W Digital Audio Demo Board	—	ZXCW502CEVAL-ND*	599.00	—	—	—	—	—
24-Bit, Audio Stereo Amp	28-SSOP	ZXCW6100S28CT-ND	11.90	10.20	9.35	ZXCW6100S28TR-ND	1,500	5780.00/M
32-Bit, Digital Amplifier Controller IC	28-SSOP	ZXCW8100S28CT-ND	15.47	13.26	12.16	ZXCW8100S28TR-ND	1,500	8840.00/M

*Bulk Pricing

Super E-Line Transistors — (modified TO-92) & TO-92 Packages

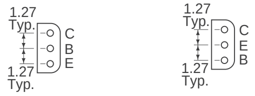
Type	V_{CEO} (V)	V_{CBO} (V)	I_C (A)	Max. I_{CM} (A)	V_{CE} (Sat.) Max. (V)	@ I_C (mA)	I_B (mA)	h_{FE} Min./Max.	I_C @ V_{CE} (mA/V)	Min. f_T (MHz)	Digi-Key Part No.	Pricing 1	10	100	1,000
Medium Power Transistors — 1,000mW															
NPN	400	400	0.3	0.5	0.5	50	6	100/300	50/10	50	ZTX458-ND	.54	4.05	27.00	180.00
	300	300	0.5	1	0.3	100	10	50/300	50/10	75	ZTX457-ND	.48	3.60	24.00	160.00
	140	160	1	2	0.7	150	15	100/300	150/10	100	ZTX455-ND	.48	3.60	24.00	160.00
	100	120	1	2	0.7	150	15	40/200	150/10	150	ZTX453-ND	.48	3.60	24.00	160.00
	60	80	1	2	0.35	150	15	50/150	150/10	150	ZTX451-ND	.48	3.60	24.00	160.00
	45	60	1	2	0.25	150	15	100/300	150/10	150	ZTX450-ND	.48	3.60	24.00	160.00
	30	50	1	2	0.5	1000	100	100/300	500/2	150	ZTX449-ND	.48	3.60	24.00	160.00
PNP	-400	-400	-0.2	-0.5	-0.5	-50	-6	100/300	-50/-10	50	ZTX558-ND	.54	4.05	27.00	180.00
	-300	-300	-0.5	-1	-0.3	-50	-5	50/300	-50/-10	75	ZTX557-ND	.48	3.60	24.00	160.00
	-200	-200	-1	-2	-0.3	-100	-10	50/300	-300/-10	100	ZTX576-ND	.48	3.60	24.00	160.00
	-150	-160	-1	-2	-0.3	-100	-10	50/300	-300/-10	100	ZTX555-ND	.48	3.60	24.00	160.00
	-100	-120	-1	-2	-0.25	-150	-15	40/200	-150/-10	150	ZTX553-ND	.48	3.60	24.00	160.00
	-60	-80	-1	-2	-0.35	-150	-15	50/150	-150/-10	150	ZTX551-ND	.51	3.83	25.50	170.00
	-45	-60	-1	-2	-0.25	-150	-15	100/300	-150/-10	150	ZTX550-ND	.51	3.83	25.50	170.00
	-30	-35	-1	-2	-0.5	-1000	-100	100/300	-500/-2	100	ZTX549-ND	.51	3.83	25.50	170.00
High Performance Transistors — 1,000mW															
NPN	400	400	0.5	1	0.5	100	10	50/—	100/5	50	ZTX658-ND	.90	6.75	45.00	300.00
	300	300	0.5	1	0.5	100	10	50/—	100/5	30	ZTX657-ND	.78	5.85	39.00	260.00
	200	200	0.5	1	0.5	100	10	50/—	100/5	30	ZTX656-ND	.78	5.85	39.00	260.00
	150	150	1	2	0.5	1000	200	50/—	500/5	30	ZTX655-ND	.78	5.85	39.00	260.00
	100	120	2	6	0.5	2000	200	100/300	500/2	140	ZTX653-ND	.78	5.85	39.00	260.00
	60	80	2	6	0.5	2000	200	100/300	500/2	140	ZTX651-ND	.78	5.85	39.00	260.00
	25	35	2	6	0.5	2000	200	100/300	1000/2	150	ZTX649-ND	.78	5.85	39.00	260.00
PNP	-400	-400	-0.5	-1	-0.5	-100	-10	50/—	-100/-5	50	ZTX758-ND	.90	6.75	45.00	300.00
	-300	-300	-0.5	-1	-0.5	-100	-10	50/—	-100/-5	30	ZTX757-ND	.78	5.85	39.00	260.00
	-200	-200	-1	-2	-0.5	-500	-50	50/—	-500/-5	30	ZTX776-ND	.67	5.04	33.60	224.00
	-150	-150	-1	-2	-0.5	-1000	-200	50/—	-500/-5	30	ZTX755-ND	.78	5.85	39.00	260.00
	-100	-120	-2	-6	-0.5	-2000	-200	100/300	-500/-2	100	ZTX753-ND	.78	5.85	39.00	260.00
	-60	-80	-2	-6	-0.5	-2000	-200	100/300	-500/-2	100	ZTX751-ND	.78	5.85	39.00	260.00
	-25	-35	-2	-6	-0.5	-2000	-200	100/300	-1000/-2	100	ZTX749-ND	.78	5.85	39.00	260.00
High Gain Transistors — 1,000mW															
NPN	180	180	0.5	1	0.25	200	5	500/—	100/5	70	ZTX696B-ND	.90	6.75	45.00	300.00
	160	200	3	6	0.3	3000	200	300/1200	500/10	100	ZTX1056A-ND	1.14	8.55	51.30	323.00
	120	175	3	6	0.31	3000	150	300/1200	1000/10	100	ZTX1055A-ND	1.14	8.55	51.30	323.00
	120	120	0.5	1	0.5	400	5	400/—	200/2	130	ZTX694B-ND	.90	6.75	45.00	300.00
	75	150	3	10	0.25	3000	100	300/1200	1000/2	100	ZTX1053A-ND	1.14	8.55	51.30	323.00
	70	70	1	2	0.5	1000	10	400/—	500/2	150	ZTX692B-ND	.90	6.75	45.00	300.00
	45	45	2	6	0.5	1000	5	400/—	1000/2	150	ZTX690B-ND	.90	6.75	45.00	300.00
	40	150	4	10	0.21	4000	100	300/1200	1000/2	100	ZTX1051A-ND	1.14	8.55	51.30	323.00
	25	80	4	15	0.18	2000	10	300/1200	1000/2	100	ZTX1049A-ND	1.14	8.55	51.30	323.00
	20	20	3	8	0.5	2000	10	400/—	2000/2	150	ZTX689B-ND	.90	6.75	45.00	300.00
	20	20	3.5	10	0.255	3500	50	300/—	200/2	100	ZTX618-ND	1.08	8.10	48.60	306.00
	17.5	50	4	20	0.21	4000	20	300/1200	1000/2	150	ZTX1048A-ND	1.14	8.55	51.30	323.00
	12	12	3	10	0.35	3000	20	400/—	3000/2	150	ZTX688B-ND	.90	6.75	45.00	300.00
	10	35	4	20	0.19	4000	20	300/1200	1000/2	150	ZTX1047A-ND	1.14	8.55	51.30	323.00
PNP	-200	-200	-0.5	-1	-0.3	-200	-20	300/800	-10/-10	100	ZTX796A-ND	.90	6.75	45.00	300.00
	-140	-140	-0.5	-1	-0.3	-200	-5	300/800	-10/-2	100	ZTX795A-ND	.90	6.75	45.00	300.00
	-70	-75	-2	-4	-0.5	-1000	-25	300/800	-10/-2	100	ZTX792A-ND	.90	6.75	45.00	300.00
	-40	-50	-2	-6	-0.75	-2000	-50	300/800	-10/-2	100	ZTX790A-ND	.90	6.75	45.00	300.00
	-40	-45	-3	-5	-0.23	-1800	-70	250/800	-500/-2	145	ZTX1151A-ND	1.32	9.90	59.40	374.00
	-25	-25	-3	-8	-0.45	-2000	-20	300/800	-10/-2	100	ZTX789A-ND	.90	6.75	45.00	300.00
	-25	-30	-3	-10	-0.3	-3000	-70	250/800	-500/-2	135	ZTX1149A-ND	1.32	9.90	59.40	374.00
	-20	-20	-2.5	-6	-0.26	-2500	-200	300/—	-10/-2	150	ZTX718-ND	1.08	8.10	48.60	306.00
	-15	-20	-3	-10	-0.32	-2000	-20	300/800	-10/-1	100	ZTX788A-ND	.90	6.75	45.00	300.00
	-12	-15	-4	-20	-0.235	-4000	-70	250/850	-500/-2	115	ZTX1147A-ND	1.32	9.90	59.40	374.00
High Performance Darlington Transistors — 1,000mW															
NPN	160	180	1	4	1.2	1000	10	2K-100K	500/10	150	ZTX601-ND	.78	5.85	39.00	260.00
	160	180	1	4	1.2	1000	10	10K-100K	500/10	150	ZTX601B-ND	.78	5.85	39.00	260.00
	140	160	1	4	1.2	1000	10	10K-100K	500/10	150	ZTX600B-ND	.78	5.85	39.00	260.00
	120	140	1	4	1.5	1000	1	2K-100K	1000/5	150	ZTX605-ND	.78	5.85	39.00	260.00
	100	120	0.8	2	1.25	800	8	10K/—	500/5	—	ZTX614-ND	.54	4.05	27.00	180.00
	80	100	1	4	1.0	1000	1	2K-100K	1000/5	150	ZTX603-ND	.78	5.85	39.00	260.00
PNP	-120	-140	-1	-4	-1.3	-1000	-1	3K/30K	-1000/-5	160	ZTX705-ND	.78	5.85	39.00	260.00
	-60	-80	-0.8	-2	-1.25	-800	-8	10K/—	-500/-5	—	ZTX712-ND	.60	4.50	30.00	200.00
RF Transistors															
NPN	25	30	.025	—	0.5	4	4	60/—	4/10	650	MPSH10ZX-ND	.60	4.50	30.00	200.00
	15	30	.025	0.05	—	—	—	25/150	2/1	1300	ZTX325-ND	.67	5.04	33.60	224.00
High Current Transistors — 1.2 Watt															
NPN	300	330	3	5	0.25	3000	600	100/300	500/10	80	ZTX857-ND	1.50	11.25	67.50	425.00
	150	250	4	10	0.26	4000	400	100/300	1000/5	90	ZTX855-ND	1.50	11.25	67.50	425.00
	100	200	4	10	0.20	4000	400	100/300	2000/2	130	ZTX853-ND	1.50	11.25	67.50	425.00
	60	150	5	20	0.25	5000	200	100/300	2000/1	130	ZTX851-ND	1.50	11.25	67.50	425.00
	30	80	5	20	0.22	5000	200	100/300	1000/1	100	ZTX849-ND	1.50	11.25	67.50	425.00
	25	60	5	20	0.22	5000	100	300/—	1000/1	100	ZTX869-ND	1.50	11.25	67.50	425.00
PNP	-400	-400	-0.5	-1.5	-0.40	-500	-100	100/300	-500/-10	85	ZTX958-ND	1.56	11.70	70.20	442.00
	-330	-300	-1	-2	-0.20	-1000	-300	100/300	-500/-10	85	ZTX957-ND	1.56	11.70	70.20	442.00
	-200	-220	-2	-5	-0.25	-2000	-400	100/300	-1000/-5	110	ZTX956-ND	1.56	11.70	70.20	442.00
	-100	-140	-3.5	-10	-0.33	-4000	-400	100/300	-1000/-1	125	ZTX953-ND	1.56	11.70	70.20	442.00
	-60	-100	-4	-15	-0.30	-4000	-400	100/300	-1000/-1	120	ZTX951-ND	1.56	11.70	70.20	442.00
	-30	-50	-4.5	-20	-0.32	-5000	-300	100/300	-1000/-1	100	ZTX949-ND	1.56	11.70	70.20	442.00
	-20	-40	-4.5	-20	-0.31	-5000	-300	100/300	-1000/-1	80	ZTX948-ND	1.56	11.70	70.20	442.00
	-12	-15	-4.5	-20	-0.30	-5000	-200	300/1000	-500/-1	85	ZTX968-ND	1.56	11.70	70.20	442.00
Avalanche Mode Transistors															
NPN	100	260	—	60	0.25	250	—	25/—	10/10	40	ZTX415-ND	21.00	157.50	945.00	5950.00
	50	150	—	50	0.31	130	—	50/—	10/10	150	ZTX413-ND	19.50	146.25	877.50	5525.00

Super E-Line — TO-92



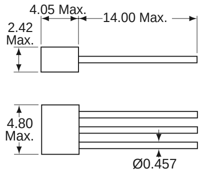
Transistor Die
Bond Wires
Locking Tabs
Offset Collector Flag To Prevent Bond Wires Shorting To Die
Silicone Molded Package
Heavy Duty Copper Based Lead Frame

Bottom Views



Pin out for TO-92

† Pin out for MPSH10ZX-ND Only



Super E-Line

The standard lead formation is collector-base-emitter (c-b-e) "in-line." The Zetex Super E-Line range brings together advanced chip technology and assembly techniques to give superior performance in a TO-92 style package. Parallel studies into chip design and assembly techniques have been combined to produce the outstanding features of the Super E-Line.

High Current Gain:

A major objective of the chip design was to produce a range of transistors with improved gain properties at high current levels. By utilizing advanced power efficient geometries and diffusion techniques, *minimum gains of 75 have been achieved at collector currents of 2 amps on standard hFE range product, while "Super-ß" types can show a minimum gain of 400 at 3A (without a heat sink!)*

High Performance Complementary Pairs:

Selective chip design has produced excellent gain linearity and extremely low base resistance, ideal for consumer applications including audio amplifiers and complementary drivers.

High Current Handling Capability:

Improvements in equalizing current distribution across the chip (avoiding 'hot spots') has produced a continuous current (IC) rating of 5 amps and peak pulse currents (ICM) of 20 amps. This makes the ZTX850 and ZTX950 series ideal for applications such as solenoids, actuators, relays, lamp drivers, motor drivers and photo flash units. The ZETEX SUPER E-LINE gives performance and reliability beyond standard TO-92 products and metal-can transistors. The package is approved over and beyond the full military temperature range. Zetex E-Line transistors are currently in use in many military applications and have been approved for 20 years application use in telecommunication equipment.

Low Saturation Voltage

Advanced chip geometry design and optimized processing lead to minimized Rce(sat). For example the ZTX849 demonstrates an equivalent on-resistance of 36mΩ at 5A. This allows cost effective replacement of much large packaged devices in switching applications.

Environmental Protection:

The silicone plastic used for the Zetex E-Line encapsulation protects the active semiconductor chip from exposure to corrosive agents, moisture and extreme environmental conditions. The absence of ionic contamination in the silicone allows chip operation up to 200°C without risk of failure. In regular tests conducted by the Quality Assurance Dept., E-Line devices are operated at Tamb = 230°C under reverse bias conditions. All devices must survive without degradation. This presents the wide operating and storage temperature range normally associated only with metal-can devices.

Operating and Storage Temperature Range: -55°C to +200°C.

Diodes

ZETEX Now QS9000 Accredited!

V_{BR} at I_R = 10µA Min. (V)	V_F at I_F = 1mA Max. (mV)	I_R Max. nA/ V_R (V)	I_F at V_F = 1V Min. (mA)	C_T @ V_R = 0V f = 1MHz Max. (pF)	Pinning Configuration	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 3,000
Schottky Barrier Diodes — SOT-23 Package											
15	410	100 / 10	20	1.2	Single	ZC2811ECT-ND	.95	.72	.43	ZC2811ETR-ND	238.50/M
30	400	2500 / 25	100	10	Single	BAT54CT-ND	.69	.52	.35	BAT54TR-ND	207.00/M
40	305	6000 / 30	0.7	16	Single	ZLLS500CT-ND *NEW!*	.51	.39	.23	ZLLS500TR-ND *NEW!*	127.50/M
40	280	11,000 / 30	1.16	26	Single	ZLLS1000CT-ND *NEW!*	.71	.54	.36	ZLLS1000TR-ND *NEW!*	214.20/M
50	410	200 / 35	15	2.0	Single	ZC5800ECT-ND	.93	.70	.42	ZC5800ETR-ND	232.50/M
70	410	200 / 50	15	2.0	Single	ZC2800ECT-ND	.95	.72	.43	ZC2800ETR-ND	238.50/M
Schottky Barrier Diodes — SOT-23-6 Package											
40	385	300 / 30	2000	50	—	ZHCS2000CT-ND *	1.04	.79	.53	ZHCS2000TR-ND	261.00/M
40	260	25,000 / 30	2.2	65	Single	ZLLS2000CT-ND *NEW!*	1.00	.76	.46	ZLLS2000TR-ND *NEW!*	250.50/M
Schottky Barrier Diodes — SOD-323 Package											
40	350	10‡ / 30	520	15.5	Single	ZLLS400TACT-ND	.51	.39	.23	ZLLS400TATR-ND	127.50/M
50	410	200 / 35	15	2.0	Single	ZMS5800CT-ND	.99	.75	.45	ZMS5800TR-ND	247.50/M
70	410	200 / 50	15	2.0	Single	ZMS2800CT-ND	.99	.75	.45	ZMS2800TR-ND	247.50/M
Dual Schottky Barrier Diodes — SOT-23 Package											
15	410	100 / 10	20	1.2	Series	ZC2812ECT-ND	1.55	1.17	.70	ZC2812ETR-ND	387.00/M
15	410	100 / 10	20	1.2	Com. Anode	ZC2813ECT-ND	1.55	1.17	.70	ZC2813ETR-ND	387.00/M
30	400	2000 / 25	200	10	Com. Anode	BAT54ACT-ND †	.69	.52	.35	BAT54ATR-ND	207.00/M
30	400	2000 / 25	200	10	Series	BAT54SCT-ND †	.69	.52	.35	BAT54STR-ND	207.00/M
30	400	2000 / 25	200	10	Com. Cathode	BAT54CCT-ND †	.69	.52	.35	BAT54CTR-ND	207.00/M
70	410	200 / 50	15	2.0	Series	BAS70-04ZXCT-ND	1.92	1.44	.87	BAS70-04ZXTR-ND	480.00/M
70	410	200 / 50	15	2.0	Com. Anode	BAS70-06ZXCT-ND	1.92	1.44	.87	BAS70-06ZXTR-ND	480.00/M
70	410	200 / 50	15	2.0	Com. Cathode	BAS70-05CT-ND	1.92	1.44	.87	BAS70-05TR-ND	480.00/M
Dual Schottky Barrier Diodes — SOT-323 Package											
30	320	2000 / 25	200	10	Com. Cathode	ZUMD54CCT-ND †	.75	.57	.34	ZUMD54CTR-ND	187.50/M
70	410	200 / 50	15	2.0	Series	ZUMD70-04CT-ND	.75	.57	.34	ZUMD70-04TR-ND	187.50/M

* VR = 25V   † VR = 1V   ‡ = µA

V_{BR} (V)	I_R max.	I_R Typical	@VR	VF @200mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 3,000
Silicon Planar Low Leakage Diodes - Common Cathode — SOT-23 Package										
50	3nA	<25pA	50	1.4	FLLD258CT-ND	.45	.34	.23	FLLD258TR-ND	135.00/M
Silicon Planar Low Leakage Diodes - Series — SOT-23 Package										
100	5nA	<25pA	100	1.4	FLLD261CT-ND	.45	.34	.23	FLLD261TR-ND	135.00/M
Silicon Planar Low Leakage Diodes - Common Anode — SOT-23 Package										
100	5nA	<25pA	100	1.4	FLLD263CT-ND	.45	.34	.23	FLLD263TR-ND	135.00/M

Silicon voltage regulator diodes designed for voltage reference and stabilizer applications. Encapsulated in the popular SOT-23 package, these devices are designed specifically for use in thin and thick film hybrid circuits in both industrial and commercial applications.

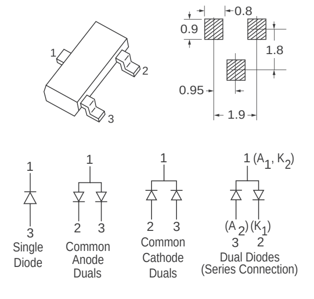
Specifications: • Nominal Tolerance: ±5% • Max. Power Dissipation at T_{amb} = 25°C: P_{tot} 350mW • Operating and Storage Temperature Range: -65°C to +150°C • Max. Forward Current: I_F 250mA

Zener Voltage Vz at Iz = 5mA Min.	Nom.	Max.	Diff. Resistance rz at Iz = 5mA Max. (Ohms)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 3,000
Zener Diodes — Silicon Voltage Regulator Diodes — SOT-23 Package									
2.5	2.7	2.9	100	BZX84C2V7ZXCT-ND•	.39	.30	.20	BZX84C2V7ZXTR-ND	117.00/M
2.8	3.0	3.2	100	BZX84C3V0ZXCT-ND•	.39	.30	.20	BZX84C3V0ZXTR-ND	117.00/M
3.1	3.3	3.5	100	BZX84C3V3ZXCT-ND•	.39	.30	.20	BZX84C3V3ZXTR-ND	117.00/M
3.4	3.6	3.8	100	BZX84C3V6ZXCT-ND	.39	.30	.20	BZX84C3V6ZXTR-ND	117.00/M
3.7	3.9	4.1	100	BZX84C3V9ZXCT-ND•	.39	.30	.20	BZX84C3V9ZXTR-ND	117.00/M
4.0	4.3	4.6	90	BZX84C4V3ZXCT-ND	.39	.30	.20	—	—
4.4	4.7	5.0	80	BZX84C4V7ZXCT-ND	.39	.30	.20	BZX84C4V7ZXTR-ND	117.00/M
5.2	5.6	6.0	40	BZX84C5V6ZXCT-ND•	.39	.30	.20	BZX84C5V6ZXTR-ND	117.00/M
5.8	6.2	6.6	10	BZX84C6V2ZXCT-ND•	.39	.30	.20	BZX84C6V2ZXTR-ND	117.00/M
6.4	6.8	7.2	15	BZX84C6V8ZXCT-ND•	.39	.30	.20	—	—
7.0	7.5	7.9	15	BZX84C7V5ZXCT-ND	.39	.30	.20	BZX84C7V5ZXTR-ND	117.00/M
7.7	8.2	8.7	15	BZX84C8V2ZXCT-ND	.39	.30	.20	BZX84C8V2ZXTR-ND	117.00/M
8.5	9.1	9.6	15	BZX84C9V1ZXCT-ND•	.39	.30	.20	BZX84C9V1ZXTR-ND	117.00/M
9.4	10	10.6	20	BZX84C10ZXCT-ND•	.39	.30	.20	BZX84C10ZXTR-ND	117.00/M
10.4	11	11.6	20	BZX84C11ZXCT-ND	.39	.30	.20	BZX84C11ZXTR-ND	117.00/M
11.4	12.0	12.7	25	BZX84C12ZXCT-ND•	.39	.30	.20	BZX84C12ZXTR-ND	117.00/M
12.4	13	14.1	30	BZX84C13ZXCT-ND	.39	.30	.20	BZX84C13ZXTR-ND	117.00/M
15.3	16	17.1	40	BZX84C16ZXCT-ND	.39	.30	.20	BZX84C16ZXTR-ND	117.00/M
16.8	18	19.1	45	BZX84C18ZXCT-ND•	.39	.30	.20	BZX84C18ZXTR-ND	117.00/M
18.8	20	21.2	55	BZX84C20ZXCT-ND•	.39	.30	.20	BZX84C20ZXTR-ND	117.00/M
20.8	22	23.3	55	BZX84C22ZXCT-ND	.39	.30	.20	BZX84C22ZXTR-ND	117.00/M
22.8	24	25.6	70	BZX84C24ZXCT-ND•	.39	.30	.20	—	—
25.1	27	28.9	80	BZX84C27ZXCT-ND†	.39	.30	.20	BZX84C27ZXTR-ND	117.00/M
28	30	32	80	BZX84C30ZXCT-ND•†	.39	.30	.20	BZX84C30ZXTR-ND	117.00/M
31.0	33.0	35.0	80	BZX84C33ZXCT-ND•†	.39	.30	.20	BZX84C33ZXTR-ND	117.00/M
34.0	36.0	38.0	90	BZX84C36ZXCT-ND•†	.39	.30	.20	BZX84C36ZXTR-ND	117.00/M
37	39	41	130	BZX84C39ZXCT-ND†	.39	.30	.20	BZX84C39ZXTR-ND	117.00/M
40	43	46	150	BZX84C43ZXCT-ND†	.39	.30	.20	BZX84C43ZXTR-ND	117.00/M
44	47	50	170	BZX84C47ZXCT-ND†	.39	.30	.20	BZX84C47ZXTR-ND	117.00/M

† Iz at 2mA

- **BZX1-KIT-ND** ***Digi-Key® SMD Zener Diode Kit*** 10 each of values denoted (180 total pieces) **$49.95**

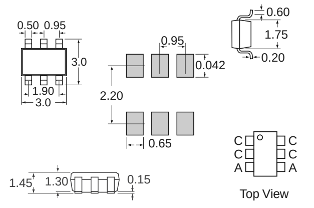
SOT-23



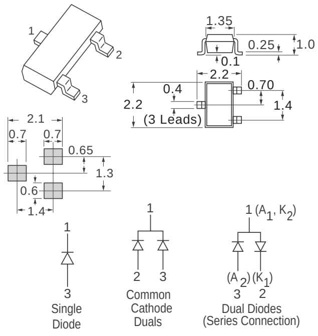
SOT-23 Tape and Reel Information:

Tape packaging has special attractions for customers using manual placement since it makes it easier to assemble and orientate these tiny components; stock accounting is also simplified.

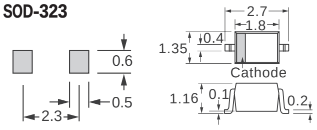
SOT-23-6



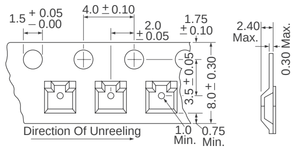
SOT-323



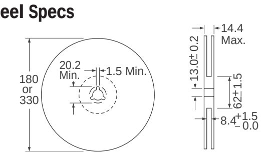
SOD-323



Tape Specs



Reel Specs



ZETEX SEMICONDUCTORS Diodes

Description	Ratings V_R (V)	Ratings I_F (mA)	trr Max. (ns)	Max. V_F at I_F = mA 10/50/100	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Silicon Planar High Speed Switching Diodes — SOT-23 Package										
Single Diode	75	75	4/8	1.0/–/–	FMMD914CT-ND	.36	.27	.18	FMMD914TR-ND	108.00/M
Single Diode	50	150	4	–/–/1.0	BAR74ZXCT-ND	.39	.30	.20	BAR74ZXTR-ND	117.00/M
Dual Diode w/ Common Cathode	70	200	5	0.7/–/1.1	FMMD6100CT-ND	.36	.27	.18	FMMD6100TR-ND	108.00/M
Dual Diode w/ Common Cathode	70	100	6	0.855/1.1/1.3	BAV70ZXCT-ND	.39	.30	.20	BAV70ZXTR-ND	117.00/M
Dual Diode w/ Common Cathode	50	150	4	–/–/1.0	BAV74ZXCT-ND	.39	.30	.20	BAV74ZXTR-ND	117.00/M
Dual Diode w/ Series Connection	70	100	6	0.855/1.1/1.3	BAV99ZXCT-ND	.39	.30	.20	BAV99ZXTR-ND	117.00/M
Dual Diode w/ Common Anode	70	100	6	0.855/1.1/1.3	BAW56ZXCT-ND	.39	.30	.20	BAW56ZXTR-ND	117.00/M
Single Diode	200	200	50	1.0	BAS21ZXCT-ND	.36	.27	.18	—	—

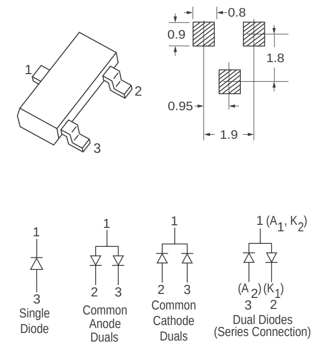
V_{BR} (V)	$I_{F(DC)}$ (mA)	I_{FSM} (A)	V_F (mV)	@mA	V_F (mV)	@mA	P_{tot} (mW)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Silicon Planar High Current Schottky Diodes — SOT-23 Package													
40	500	6.75	550	500	1050	1500	330	ZHCS500CT-ND	.63	.48	.32	ZHCS500TR-ND	189.00/M
60	500	6.75	550	500	1120	1500	330	ZHCS506CT-ND	.68	.52	.35	ZHCS506TR-ND	205.20/M
40	750	12	490	750	650	1500	625	ZHCS750CT-ND	.84	.63	.38	ZHCS750TR-ND	210.00/M
60	750	12	520	750	760	1500	625	ZHCS756CT-ND	.89	.67	.45	ZHCS756TR-ND	266.40/M
40	1000	12	500	1000	600	1500	625	ZHCS1000CT-ND	1.04	.79	.47	ZHCS1000TR-ND	261.00/M
60	1000	12	510	1000	620	1500	625	ZHCS1006CT-ND	1.04	.79	.53	ZHCS1006TR-ND	313.20/M
Silicon Planar High Current Schottky Diodes — SOD-323 Package													
40	400	6.75	500	400	1050	1500	300	ZHCS400CT-ND	.55	.42	.28	ZHCS400TR-ND	165.60/M

ZETEX SEMICONDUCTORS MPPS Transistors

Type	V_{CBO} (V)	V_{CEO} (V)	I_C	h_{FE} @ Min./Max.	I_C/V_{CE} (mA/V)	V_{CE} (Sat.) Max. (V)	@ I_C (mA)	I_B (mA)	f_T Typ. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
MPPS — 3X2 MLP															
NPN	100	27	4.5	200/—	8/2	15	10	10	140	ZX3CDBS1M832TACT-ND*	1.20	.90	ZX3CDBS1M832TATR-ND*	3,000	360.00/M
PNP	-35	-25	-4	300/—	10/-2	-10	100	10	110	ZX3CD1S1M832TACT-ND*	1.20	.90	ZX3CD1S1M832TATR-ND*	3,000	360.00/M
Dual N & P Channel	70	18	4.5	200/—	10/-2	8	100	10	120	ZXTDA1M832TACT-ND	1.20	.90	ZXTDA1M832TATR-ND	3,000	360.00/M
	-35	-25	-4	475/—	10/-2	-10	100	10	110						
	190	65	4	200/—	10/2	8	100	10	165	ZXTDCM832TACT-ND	1.20	.90	ZXTDCM832TATR-ND	3,000	360.00/M
	-80	-70	-3	300/—	10/-2	-25	100	-10	110						
Dual NPN	70	18	4.5	200/—	10/2	14	100	10	120	ZXTDAM832TACT-ND	1.20	.90	ZXTDAM832TATR-ND	3,000	360.00/M
	100	27	4.5	200/—	10/2	8	100	10	140	ZXTDBM832TACT-ND	1.20	.90	ZXTDBM832TATR-ND	3,000	360.00/M
Dual PNP	-35	-25	-4	300/—	10/2	-10	100	10	110	ZXTD1M832TACT-ND	1.20	.90	ZXTD1M832TATR-ND	3,000	360.00/M
Dual Complementary	100	27	4.5	200/—	10/2	8	100	10	140	ZXTDB2M832TACT-ND	1.20	.90	ZXTDB2M832TATR-ND	3,000	360.00/M
MPPS — 2X2 MLP															
NPN	70	18	4.5	200/—	10/2	8	100	10	120	ZXTAM322TACT-ND	.78	.59	ZXTAM322TATR-ND	3,000	234.00/M
	100	27	10	200/—	10/2	8	100	10	140	ZXTBM322TACT-ND	.78	.59	ZXTBM322TATR-ND	3,000	234.00/M
PNP	-35	-25	-4	300/—	10/-2	-10	100	10	110	ZXT1M322TACT-ND	.78	.59	ZXT1M322TATR-ND	3,000	234.00/M
	-35	-25	-3.5	300/—	10/-2	-19	100	10	180	ZXT2M322TACT-ND	.78	.59	ZXT2M322TATR-ND	3,000	234.00/M

ZETEX SEMICONDUCTORS ***Now QS9000 Accredited!***

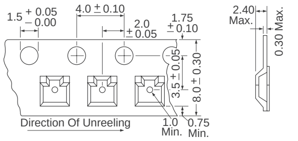
SOT-23



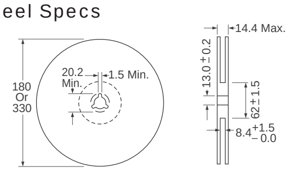
SOT-23 Tape and Reel Information:

Tape packaging has special attractions for customers using manual placement since it makes it easier to assemble and orientate these tiny components; stock accounting is also simplified.

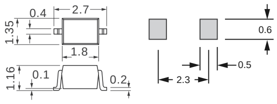
Tape Specs



Reel Specs

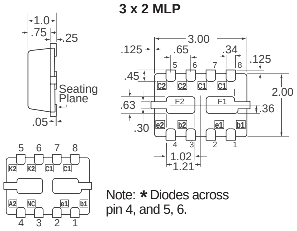


SOD-323



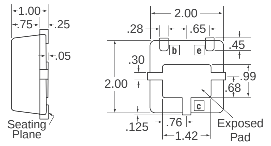
MPPS

3 x 2 MLP



Note: ★Diodes across pin 4, and 5, 6.

2 x 2 MLP



ZETEX SEMICONDUCTORS

Transistors — SOT-89 Package

Type	V_{CBO} (V)	V_{CEO} (V)	I_C (mA)	h_{FE} @ Min./Max.	I_C/V_{CE} (mA/V)	V_{CE} (Sat.) Max. @ (V)	I_C (mA)	I_B (mA)	f_T Typ. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
1 Watt — SOT-89 Package															
NPN	400	400	500	35/—	200/10	0.2	100	10	50	FCX658ACT-ND	.84	.63	FCX658ATR-ND	1,000	238.00
	400	400	225	100/300	50/10	0.5	50	6	50	FCX458CT-ND	.98	.74	FCX458TR-ND	1,000	277.10
	400	350	500	40/—	20/10	0.5	50	4	70	BST39CT-ND	.49	.37	BST39TR-ND	1,000	139.40
	300	250	500	40/—	20/10	0.5	50	4	70	BST40CT-ND	.96	.72	BST40TR-ND	1,000	272.00
	170	150	100	100/300	250/10	0.3	500	50	100	FCX495CT-ND	1.02	.77	FCX495TR-ND	1,000	289.00
	150	75	3000	270/1200	1000/2	0.25	3000	100	140	FCX1053ACT-ND	.98	.74	FCX1053ATR-ND	1,000	277.10
	150	40	3000	270/1200	1000/2	0.34	5000	100	155	FCX1051ACT-ND	.98	.74	FCX1051ATR-ND	1,000	277.10
	120	100	1000	100/300	250/10	0.3	500	50	150	FCX493CT-ND	.61	.46	FCX493TR-ND	1,000	171.70
	100	80	1000	100/250	150/2	0.5	500	50	150	BCX5616CT-ND	.49	.37	BCX5616TR-ND	1,000	139.40
	90	80	500	2000/—	500/10	1.3	500	0.5	150	BST52CT-ND*	.49	.37	BST52TR-ND*	1,000	139.40
	80	60	1000	100/300	500/5	0.5	1000	100	150	FCX491CT-ND	.61	.46	FCX491TR-ND	1,000	171.70
	80	60	500	1000/—	150/10	1.3	500	.5	—	BST51CT-ND*	.96	.72	BST51TR-ND*	1,000	272.00
	50	50	2000	200/—	1000/2	0.35	3000	100	165	FCX619CT-ND	.79	.59	FCX619TR-ND	1,000	222.70
	45	45	2000	400/150	2000/2	0.30	1000	5	150	FCX690BCT-ND	.87	.66	FCX690BTR-ND	1,000	246.50
	40	40	1000	300/900	500/5	0.5	1000	100	150	FCX491ACT-ND	.61	.46	FCX491ATR-ND	1,000	171.70
	40	30	500	20,000	100/5	1.0	100	0.1	150	BCV29CT-ND*	.96	.72	BCV29TR-ND*	1,000	272.00
	35	10	4000	300/1200	1000/2	0.35	5000	25	150	FCX1047ACT-ND	.98	.74	FCX1047ATR-ND	1,000	277.10
	25	20	1000	85/375	500/1	0.5	1000	100	60	BC868CT-ND	.90	.68	BC868TR-ND	1,000	300.00
	15	15	4000	200/—	3000/2	0.20	3000	50	120	FCX617CT-ND	.79	.59	FCX617TR-ND	1,000	222.70
	12	12	3000	400/—	3000/2	0.40	4000	50	150	FCX688BCT-ND	.79	.59	FCX688BTR-ND	1,000	222.70
PNP	-400	-400	-200	100/300	-50/-10	-0.5	-50	-6	50	FCX558CT-ND	.63	.48	FCX558TR-ND	1,000	178.50
	-300	-300	-50	50/-	-25/-20	-0.6	-30	-5	100	BF621CT-ND	.90	.68	BF621TR-ND	1,000	300.00
	-220	-200	-300	85/300	25	-0.35	-250	25	150	FCX596CT-ND	.61	.46	FCX596TR-ND	1,000	171.70
	-200	-200	-500	30/150	-50/-10	-2.0	-50	-5	15	BST15CT-ND	.96	.72	BST15TR-ND	1,000	272.00
	-120	-100	-1000	100/300	-500/-5	-0.3	-500	-50	50	FCX593CT-ND	.61	.46	FCX593TR-ND	1,000	171.70
	-100	-80	-1000	100/250	-150/-2	-0.5	-500	-50	150	BCX5316CT-ND	.49	.37	BCX5316TR-ND	1,000	139.40
	-80	-60	-1000	100/300	-500-5	-0.6	-1000	-100	150	FCX591CT-ND	.61	.46	FCX591TR-ND	1,000	171.70
	-80	-60	-500	10,000/-	-100/-5	-1.0	-100	-0.1	200	BCV48CT-ND*	.49	.37	BCV48TR-ND*	1,000	139.40
	-80	-60	-500	2,000	-500/-10	-1.3	-500	-50	200	BST61CT-ND*	.96	.72	BST61TR-ND*	1,000	272.00
	-70	-60	-1000	100/300	-100/-5	-0.5	-500	-50	100	BSR31CT-ND	.96	.72	BSR31TR-ND	1,000	272.00
	-50	-30	-1000	100/300	-500/-2	-0.35	-1000	-100	100	FCX589CT-ND	.61	.46	FCX589TR-ND	1,000	171.70
	-50	-40	-2000	250/150	-2000/-2	-0.45	-500	-10	100	FCX790ACT-ND	.87	.66	FCX790ATR-ND	1,000	246.50
	-45	-40	-3000	250/800	-500/-2	-0.30	-3000	-250	145	FCX1151ACT-ND	.98	.74	FCX1151ATR-ND	1,000	277.10
	-40	-40	-1000	300/800	-100/-5	-0.35	-500	-20	150	FCX591ACT-ND	.61	.46	FCX591ATR-ND	1,000	171.70
	-30	-25	-3000	250/800	-500/-2	-0.30	-3000	-100	135	FCX1149ACT-ND	.87	.66	FCX1149ATR-ND	1,000	246.50
	-25	-20	-1000	85/375	-500/-1	-0.5	-1000	-100	60	BC869CT-ND	.90	.68	BC869TR-ND	1,000	300.00
	-25	-25	-3000	300/800	-10/-2	-0.19	-1000	-10	100	FCX789ACT-ND	.79	.59	FCX789ATR-ND	1,000	222.70
	-20	-20	-2500	300/—	-100/-2	-0.22	-1500	-50	150	FCX718CT-ND	.79	.59	FCX718TR-ND	1,000	222.70
	-15	-12	-3000	250/850	-500/-2	-0.25	-3000	-30	115	FCX1147ACT-ND	.98	.74	FCX1147ATR-ND	1,000	277.10
	-12	-12	-3000	300/—	-100/-2	-0.32	-3000	-50	110	FCX717CT-ND	.79	.59	FCX717TR-ND	1,000	222.70

* Darlington

ZETEX SEMICONDUCTORS

Transistors — SOT-23, SOT-23-6 and MSOP-8 Packages

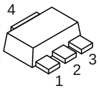
Type	V_{CBO} (V)	V_{CEO} (V)	I_C (mA)	h_{FE} @ Min./Max.	I_C/V_{CE} (mA/V)	V_{CE} (Sat.) Max. @ (V)	I_C (mA)	I_B (mA)	f_T Typ. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
General Purpose — 330mW — SOT-23 Package															
NPN	80	80	1500	300/900	200/2	0.20	1500	50	160	FMMT620CT-ND	.69	.52	FMMT620TR-ND	3,000	172.50/M
	60	40	200	100/300	10/1	0.2	10	1	300	FMMT3904CT-ND	.36	.27	FMMT3904TR-ND	3,000	108.00/M
	45	45	200	380/630	2/5	0.35	10	0.25	250	BCX70KCT-ND	.36	.27	BCX70KTR-ND	3,000	108.00/M
	32	32	200	380/630	2/5	0.35	10	0.25	250	BCW60DCT-ND	.36	.27	—	—	—
	40	30	200	50/150	2/1	0.3	50	5	250	FMMT4123CT-ND	.36	.27	—	—	—
PNP	-60	-40	-200	100/300	-10/-1	-0.2	-10	-1.0	300	FMMT3906CT-ND	.36	.27	FMMT3906TR-ND	3,000	108.00/M
	-45	-45	-200	380/630	-2/-5	-0.25	-10	-0.25	180	BCX71KCT-ND	.36	.27	BCX71KTR-ND	3,000	108.00/M
	-32	-32	-200	380/630	-2/-5	-0.25	-10	-0.25	180	BCW61DCT-ND	.36	.27	BCW61DTR-ND	3,000	108.00/M
Switching Transistors — 330mW — SOT-23 Package															
NPN	75	40	600	100/300	150/10	0.3	150	15	300	FMMT2222ACT-ND	.36	.27	FMMT2222ATR-ND	3,000	108.00/M
	60	40	600	100/300	150/1	0.4	150	15	200	FMMT4401CT-ND	.36	.27	FMMT4401TR-ND	3,000	108.00/M
	30	25	200	120/360	2/1	0.3	50	5	300	FMMT4124CT-ND	.36	.27	—	—	—
	40	15	200	40/120	10/1	0.25	10	1	500	FMMT2369CT-ND	.36	.27	FMMT2369TR-ND	3,000	108.00/M
PNP	-60	-60	-600	100/300	-150/-10	-0.4	-150	-15	200	FMMT2907ACT-ND	.36	.27	FMMT2907ATR-ND	3,000	108.00/M
	-40	-40	-600	100/300	-150/-1	-0.4	-150	-15	200	FMMT4403CT-ND	.36	.27	FMMT4403TR-ND	3,000	108.00/M
	-30	-30	-200	50/150	-2/-1	-0.4	-50	-5	200	FMMT4125CT-ND	.36	.27	FMMT4125TR-ND	3,000	108.00/M
	-25	-25	-200	120/360	-2/-1	-0.4	-50	-5	250	FMMT4126CT-ND	.36	.27	FMMT4126TR-ND	3,000	108.00/M
RF Transistors — SOT-23 Package															
NPN	30	25	25	60/—	4/10	0.5	4	0.4	650	FMMTH10CT-ND	.47	.36	FMMTH10TR-ND	3,000	142.20/M
	20	12	50	25/250	3/1	0.4	10	1	900	FMMT5179CT-ND‡	.49	.37	FMMT5179TR-ND‡	3,000	145.80/M
	30	15	100	20/—	3/1	0.4	10	1	600	FMMT918CT-ND	.45	.34	FMMT918TR-ND	3,000	135.00/M
	30	20	25	40/—	7/10	—	—	—	450	BFS20CT-ND	.48	.36	BFS20TR-ND	3,000	144.00/M
	30	15	25	25/150	2/1	—	—	—	1300	BFS17CT-ND‡	.51	.39	BFS17TR-ND‡	3,000	153.00/M
	25	15	25	70/200	2/1	—	—	—	1300	BFS17HCT-ND	.54	.41	BFS17HTR-ND	3,000	162.00/M
High Voltage — 330mW — SOT-23 Package															
NPN	500	450	150	50/—	30/10	0.075	20	2.0	50	FMMT459TACT-ND	.60	.45	FMMT459TATR-ND	6,000	150.00/M
	300	300	200	40/—	30/10	0.5	20	2.0	50	FMMTA42CT-ND	.39	.30	FMMTA42TR-ND	3,000	117.00/M
	180	160	400	80/250	10/5	0.4	50	5	200	FMMT5551CT-ND	.45	.34	—	—	—

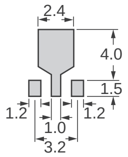
(Continued)

ZETEX SEMICONDUCTORS **Now QS9000 Accredited!**

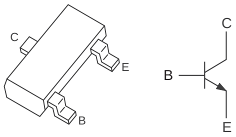
SOT-89

1 Base
2 Collector
3 Emitter
4 Collector

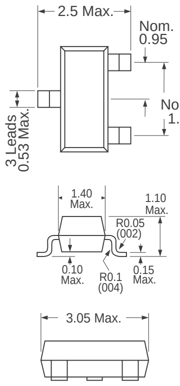




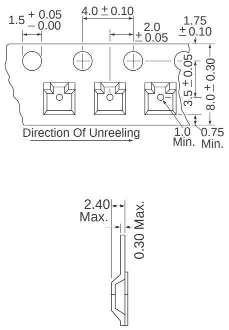
SOT-23 Conventional



SOT-23 Package Outline



SOT-23 Tape Specs



SOT-23 Tape and Reel Information:

Tape packaging also has special attractions for customers using manual placement since it makes it easier to assemble and orient these tiny components; stock accounting is also simplified.

Type	V_{CBO} (V)	V_{CEO} (V)	I_C (mA)	h_{FE} @ Min./Max.	I_C/V_{CE} (mA/V)	V_{CE} (Sat.) Max. @ (V)	I_C (mA)	I_B (mA)	f_T Typ. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
High Voltage — 330mW — SOT-23 Package															
PNP	-500	-500	-500	80/—	-50/-10	-0.2	-20	-2	90	FMMT560CT-ND	.64	.49	FMMT560TR-ND	3,000	192.60/M
	-300	-300	-200	25/—	-30/-10	-0.5	-20	-2.0	50	FMMTA92CT-ND	.39	.30	FMMTA92TR-ND	3,000	117.00/M
	-160	-150	-600	60/240	-10/-5	-0.5	-50	-5	200	FMMT5401CT-ND	.39	.30	FMMT5401TR-ND	3,000	117.00/M
	-110	-100	-100	30/—	-10/-1	-0.25	-25	-2.5	85	BSS63ZXCT-ND	.45	.34	BSS63ZXTR-ND	3,000	135.00/M
Darlington — 330mW — SOT-23 Package															
NPN	80	60	300	10K/—	500/5	1.25	800	8.0	100	FMMT38CCT-ND	.44	.33	FMMT38CTR-ND	3,000	131.40/M
	30	30	300	10K/—	10/5	1.5	100	0.1	100	FMMTA14CT-ND	.39	.30	FMMTA14TR-ND	3,000	117.00/M
	30	30	300	5K/—	10/5	1.5	100	0.1	100	FMMTA13CT-ND	.39	.30	FMMTA13TR-ND	3,000	117.00/M
PNP	-30	-30	-500	10K/—	-10/-5	-1.5	-100	-0.1	150	FMMTA63CT-ND	.39	.30	FMMTA63TR-ND	3,000	117.00/M
	-30	-30	-500	20K/—	-10/-5	-1.5	-100	-0.1	150	FMMTA64CT-ND	.39	.30	FMMTA64TR-ND	3,000	117.00/M
High Performance — 500mW — SOT-23 Package															
NPN	400	400	225	100/300	50/10	0.2	20	2	50	FMMT458CT-ND	.53	.40	FMMT458TR-ND	3,000	158.40/M
	300	300	500	100/300	100/10	0.2	100	10	75	FMMT497CT-ND	.49	.37	FMMT497TR-ND	3,000	145.80/M
	170	150	1000	100/300	250/10	0.2	250	25	100	FMMT495CT-ND	.45	.34	FMMT495TR-ND	3,000	135.00/M
	140	120	1000	100/300	250/10	0.2	250	25	100	FMMT494CT-ND	.45	.34	FMMT494TR-ND	3,000	135.00/M
	120	100	1000	100/300	250/10	0.25	500	50	150	FMMT493CT-ND	.45	.34	FMMT493TR-ND	3,000	135.00/M
	120	100	500	5K/—	500/5	1.0	500	5	100	FMMT614CT-ND*	.56	.42	FMMT614TR-ND*	3,000	167.40/M
	80	60	1000	50/150	150/10	0.35	150	15	150	FMMT451CT-ND	.45	.34	FMMT451TR-ND	3,000	135.00/M
	80	60	1000	100/300	500/5	0.3	500	50	150	FMMT491CT-ND	.45	.34	FMMT491TR-ND	3,000	135.00/M
	40	40	1000	300/900	500/5	0.3	500	50	150	FMMT491ACT-ND	.45	.34	FMMT491ATR-ND	3,000	135.00/M
	50	30	1000	100/300	1000/2	0.3	1000	100	150	FMMT489CT-ND	.45	.34	FMMT489TR-ND	3,000	135.00/M
	50	30	1000	100/300	500/2	0.5	1000	100	150	FMMT449CT-ND	.45	.34	FMMT449TR-ND	3,000	135.00/M
PNP	-400	-400	-150	100/300	-50/-10	-0.2	-20	-2	50	FMMT558CT-ND	.58	.44	FMMT558TR-ND	3,000	172.80/M
	-300	-300	-200	100/—	-100/-10	-0.25	-100	-20	75	FMMT597CT-ND	.53	.41	FMMT597TR-ND	3,000	160.20/M
	-220	-200	-500	100/300	-250/-10	-0.35	-250	-25	150	FMMT596CT-ND	.46	.35	FMMT596TR-ND	3,000	138.60/M
	-120	-100	-1000	100/300	-500/-10	-0.3	-500	-50	150	FMMT593CT-ND	.46	.35	FMMT593TR-ND	3,000	138.60/M
	-80	-60	-1000	100/300	-500/-5	-0.3	-500	-50	150	FMMT591CT-ND	.46	.35	FMMT591TR-ND	3,000	138.60/M
	-80	-60	-1000	50/150	-150/-10	-0.35	-150	-15	150	FMMT551CT-ND	.45	.34	FMMT551TR-ND	3,000	135.00/M
	-50	-30	-1000	100/300	-500/-2	-0.35	-1000	-100	100	FMMT589CT-ND	.46	.35	FMMT589TR-ND	3,000	138.60/M
	-40	-40	-1000	300/800	-100/-5	-0.35	-500	-20	150	FMMT591ACT-ND	.46	.35	FMMT591ATR-ND	3,000	138.60/M
	-35	-30	-1000	100/300	-500/-2	-0.5	-1000	-100	100	FMMT549CT-ND	.45	.34	FMMT549TR-ND	3,000	135.00/M
Medium Power — 330mW — SOT-23 Package															
NPN	80	80	500	50/—	100/10	0.25	100	10	100	FMMTA06CT-ND	.39	.30	FMMTA06TR-ND	3,000	117.00/M
	75	45	800	250/630	100/1	0.3	100	10	100	BCW66HCT-ND	.36	.27	BCW66HTR-ND	3,000	108.00/M
	60	32	800	250/630	100/1	0.3	100	10	100	BCW65CCT-ND	.36	.27	BCW65CTR-ND	3,000	108.00/M
	50	45	500	100/600	100/1	0.62	500	50	200	BCX19CT-ND	.36	.27	BCX19TR-ND	3,000	108.00/M
PNP	-80	-80	-500	50/—	-100/-1	-0.25	-100	-10	100	FMMTA56CT-ND	.39	.30	FMMTA56TR-ND	3,000	117.00/M
	-60	-45	-800	250/630	-100/-1	-0.3	-100	-10	100	BCW68HCT-ND	.36	.27	BCW68HTR-ND	3,000	108.00/M
	-50	-45	-800	100/600	-100/-1	-0.62	-500	-50	100	BCX17CT-ND	.36	.27	BCX17TR-ND	3,000	108.00/M
	-45	-30	-800	250/630	-100/-1	-0.3	-100	-10	100	BCW67CCT-ND	.36	.27	BCW67CTR-ND	3,000	108.00/M
SuperSOTs — 625mW — SOT-23 Package															
NPN	150	150	1000	300/—	200/10	0.3	1000	50	135	FMMT625CT-ND	.86	.65	FMMT625TR-ND	3,000	216.00/M
	125	125	1000	100/—	1000/10	0.25	1000	50	155	FMMT624CT-ND	.86	.65	FMMT624TR-ND	3,000	216.00/M
	50	50	2000	100/—	2000/2	0.2	1000	10	165	FMMT619CT-ND	.86	.65	FMMT619TR-ND	3,000	216.00/M
	40	15	3300	300/900	200/2	0.15	3000	150	145	ZXT11N15DFCT-ND	.71	.54	ZXT11N15DFTR-ND	3,000	178.50/M
	40	20	2500	300/900	100/2	0.13	2500	250	160	ZXT11N20DFCT-ND	.71	.54	ZXT11N20DFTR-ND	3,000	178.50/M
	20	20	2500	200/—	2000/2	0.2	2500	50	140	FMMT618CT-ND	.86	.65	FMMT618TR-ND	3,000	216.00/M
	15	15	3000	200/—	3000/2	0.2	3000	50	120	FMMT617CT-ND	.86	.65	FMMT617TR-ND	3,000	216.00/M
PNP	-100	-100	-1000	250/—	-500/-10	-0.20	-500	-50	150	FMMT723CT-ND	.92	.69	FMMT723TR-ND	3,000	229.50/M
	-70	-70	-1500	150/—	-1000/-5	-0.30	-500	-20	150	FMMT722CT-ND	.92	.69	FMMT722TR-ND	3,000	229.50/M
	-40	-40	-1500	150/—	-1000/-2	-0.25	-1000	-50	150	FMMT720CT-ND	.92	.69	FMMT720TR-ND	3,000	229.50/M
	-20	-20	-1500	150/—	-2000/-2	-0.20	-1000	-20	150	FMMT718CT-ND	.92	.69	FMMT718TR-ND	3,000	229.50/M
	-12	-12	-2500	180/—	-2500/-2	-0.17	-1500	-50	110	FMMT717CT-ND	.92	.69	FMMT717TR-ND	3,000	229.50/M
Avalanche Mode Transistors — SOT-23 Package															
NPN	260	100	500	25	10/10	0.5	10	1	40	FMMT415CT-ND	16.65	12.49	FMMT415TR-ND	3,000	4162.50/M
	320	100	500	25	10/10	0.5	10	1	40	FMMT417CT-ND	16.65	12.49	FMMT417TR-ND	3,000	4162.50/M
SuperSOT 4 — 1.1W — SOT-23-6 Package															
NPN	15	15	4000	300/—	10/2	0.014	100	10	120	ZXT10N15DE6TACT-ND	.78	.59	ZXT10N15DE6TATR-ND	3,000	195.00/M
	20	20	3500	200/—	10/2	0.015	100	10	140	ZXT10N20DE6TACT-ND	.78	.59	ZXT10N20DE6TATR-ND	3,000	195.00/M
	40	15	5000	300/900	1000/2	0.20	5000	1000	72	ZXT13N15DE6CT-ND	.81	.61	ZXT13N15DE6TR-ND	3,000	202.50/M
	50	20	4500	300/900	1000/2	0.23	4500	45	96	ZXT13N20DE6CT-ND	.81	.61	ZXT13N20DE6TR-ND	3,000	202.50/M
	50	50	3000	200/—	10/2	0.02	100	10	165	ZXT10N50DE6TACT-ND	.78	.59	ZXT10N50DE6TATR-ND	3,000	195.00/M
	50	50	1000	200/—	10/2	0.035	100	10	215	ZXTD09N50DE6CT-ND	1.20	.90	ZXTD09N50DE6TR-ND	3,000	300.00/M
	100	50	4000	300/900	1000/2	0.23	4000	100	115	ZXT13N50DE6CT-ND	.81	.61	ZXT13N50DE6TR-ND	3,000	202.50/M
PNP	-50	-40	-3000	300/900	-1000/-2	-0.24	-3000	-300	115	ZXT13P40DE6CT-ND	1.11	.83	ZXT13P40DE6TR-ND	3,000	276.75/M
	-40	-40	-2000	300/—	10/2	-0.040	-100	-10	190	ZXT10P40DE6TACT-ND	.78	.59	ZXT10P40DE6TATR-ND	3,000	195.00/M
	-25	-20	-3500	300/900	-1000/-2	-0.25	-3500	-350	90	ZXT13P20DE6CT-ND	.81	.61	ZXT13P20DE6TR-ND	3,000	202.50/M
	-20	-20	-2500	300/—	10/2	-0.030	-100	-10	180	ZXT10P20DE6TACT-ND	.78	.59	ZXT10P20DE6TATR-ND	3,000	195.00/M
	-20	-12	-4000	300/900	-1000/-2	-0.25	-4000	-50	55	ZXT13P12DE6CT-ND	.81	.61	ZXT13P12DE6TR-ND	3,000	202.50/M
	-12	-12	3000	300/—	10/2	-0.017	-100	-10	110	ZXT10P12DE6TACT-ND	.78	.59	ZXT10P12DE6TATR-ND	3,000	195.00/M
	-12	-12	-1250	125/—	-1250/-2	-0.240	-1250	-100	220	ZXTS1000E6CT-ND	1.20	.90	ZXTS1000E6TR-ND	3,000	300.00/M
Dual N & P	15	15	1.5	200/—	10/2	20	100	10	180	ZXTD6717E6TACT-ND	.89	.68	ZXTD6717E6TATR-ND	3,000	223.50/M
	-12	-12	1.2	300/—	10/-2	-40	-100	-10	220						
SuperSOT 4 — 1.1W — MSOP-8 Package															
NPN	50	20	7000	300/900	1000/2	0.14	7000	70	180	ZXT14N20DXCT-ND	1.62	1.22	ZXT14N20DXTR-ND	1,000	459.00
	100	50	6000	300/900	1000/2	0.155	6000	120	185	ZXT14N50DXCT-ND	1.62	1.22	ZXT14N50DXTR-ND	1,000	459.00
PNP	-50	-40	-4000	300/900	-1000/-2	-0.16	-4000	-200	185	ZXT14P40DXCT-ND	1.62	1.22	ZXT14P40DXTR-ND	1,000	459.00
	-25	-20	-5000	300/900	-1000/-2	-0.20	-5000	-100	170	ZXT14P20DXCT-ND	1.62	1.22	ZXT14P20DXTR-ND	1,000	459.00
	-20	-12	-6000	300/900	-1000/-2	-0.163	-6000	-60	110	ZXT14P12DXCT-ND	1.62	1.22	ZXT14P12DXTR-ND	1,000	459.00
Dual SuperSOT 4 — 1.25W — MSOP-8 Package															
Dual NPN	50	20	3500	300/900	1000/2	0.20	3500	50	112	ZXT12N20DXCT-ND	1.98	1.49	ZXT12N20DXTR-ND	1,000	561.00
	100	50	3000	300/900	1000/2	0.25	3000	50	132	ZXT12N50DXCT-ND	1.98	1.49	ZXT12N50DXTR-ND	1,000	561.00
Dual PNP	-50	-40	-2000	300/900	-1000/-2	-0.26	-2000	-100	130	ZXT12P40DXCT-ND	1.98	1.49	ZXT12P40DXTR-ND	1,000	561.00
	-25	-20	-2500	300/900	-1000/-2	-0.20	-2500	-125	110	ZXT12P20DXCT-ND	1.98	1.49	ZXT12P20DXTR-ND	1,000	561.00
	-20	-12	-3000	300/900	-1000/-2	-0.27	-3000	-30	85	ZXT12P12DXCT-ND	1.98	1.49	ZXT12P12DXTR-ND	1,000	561.00

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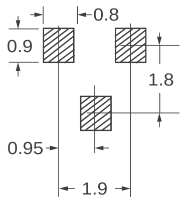
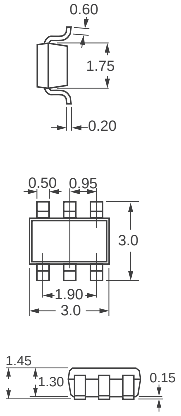
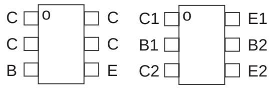
SOT-23 PC Layout



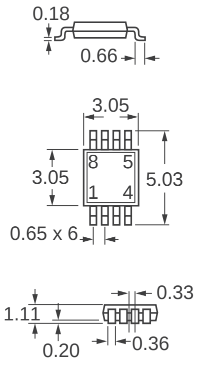
SOT-23-6



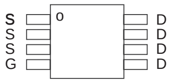


Pin out for SOT23-6 Dual

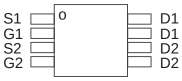
8-MSOP MOSFET



8-MSOP (Single) Pin out



8-MSOP (Dual) Pin out



Transistors — SOT-223 Package

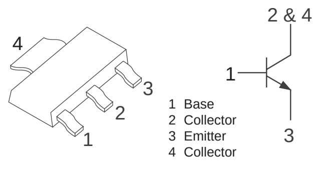
Type	V_{CBO} (V)	V_{CEO} (V)	I_C (cont) (A)	I_{CM} (A)	h_{FE} at I_C/V_{CE} Min./Max.	(mA/V)	V_{CE} (Sat.) Max. at I_C/I_B (V)	(mA)	f_T (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Pricing 1,000
High Performance Transistors (Including Darlington) — SOT-223 Package														
NPN	400	400	0.5	1.0	50/–	100/5	0.5	100/10	50	FZT658CT-ND	1.19	.90	FZT658TR-ND	338.30
	300	300	0.5	1.0	50/–	100/5	0.5	100/10	30	FZT657CT-ND	1.21	.91	FZT657TR-ND	343.40
	150	150	1.0	2.0	50/–	500/5	0.5	500/50	30	FZT655CT-ND	1.21	.91	FZT655TR-ND	343.40
	120	100	2.0	6.0	100/300	500/2	0.3	1000/100	175	FZT653CT-ND	1.21	.91	FZT653TR-ND	343.40
	80	60	3.0	6.0	100/300	500/2	0.3	1000/100	175	FZT651CT-ND	1.21	.91	FZT651TR-ND	343.40
	35	25	3.0	8.0	100/300	1000/2	0.3	1000/100	240	FZT649CT-ND	1.21	.91	FZT649TR-ND	343.40
	140	120	2.0	4.0	5K/–	500/5	1.0	250/0.25	150	FZT605CT-ND*	1.21	.91	FZT605TR-ND*	343.40
	120	100	1.5	4.0	5K/–	500/5	1.0	250/0.25	150	FZT604CT-ND*	1.38	1.04	FZT604TR-ND*	391.00
	100	80	2.0	6.0	5K/100K	500/5	1.0	1000/1	150	FZT603CT-ND*	1.21	.91	FZT603TR-ND*	343.40
	160	140	2.0	4.0	1K/–	1000/10	1.2	1000/10	150	FZT600CT-ND*	1.21	.91	FZT600TR-ND*	343.40
PNP	-400	-400	-0.5	-1.0	50/–	-100/-5	-0.5	-100/-10	50	FZT758CT-ND	1.19	.90	FZT758TR-ND	338.30
	-300	-300	-0.5	-1.0	50/–	-100/-5	-0.5	-100/-10	30	FZT757CT-ND	1.16	.87	FZT757TR-ND	328.10
	-150	-150	-1.0	-2.0	50/–	-500/-5	-0.5	-500/-50	30	FZT755CT-ND	1.16	.87	FZT755TR-ND	328.10
	-120	-100	-2.0	-6.0	100/300	-500/-2	-0.3	-1000/-100	100	FZT753CT-ND	1.16	.87	FZT753TR-ND	328.10
	-80	-60	-3.0	-6.0	100/300	-500/-2	-0.3	-1000/-100	100	FZT751CT-ND	1.16	.87	FZT751TR-ND	328.10
	-35	-25	-3.0	-8.0	100/300	-1000/-2	-0.3	-1000/-100	100	FZT749CT-ND	1.16	.87	FZT749TR-ND	328.10
	-140	-120	-2.0	-4.0	3K/30K	-1000/-5	-1.3	-1000/-1	100	FZT705CT-ND*	1.16	.87	FZT705TR-ND*	328.10
	-120	-100	-2.0	-4.0	3K/30K	-1000/-5	-1.3	-1000/-1	100	FZT704CT-ND*	1.38	1.04	FZT704TR-ND*	391.00
Medium Power Transistors — SOT-223 Package														
NPN	300	250	0.5	1.0	30/200	30/10	0.5	50/4	40	BSP20CT-ND	1.02	.77	BSP20TR-ND	289.00
	300	300	0.05	0.1	50/–	25/20	0.6	30/5	100	BF720CT-ND	1.02	.77	—	—
	120	100	1.0	2.0	100/300	250/10	0.3	500/50	150	FZT493CT-ND	1.09	.82	FZT493TR-ND	309.40
	100	80	1.0	1.5	40/250	150/2	0.5	500/50	100	BCP56CT-ND	1.02	.77	—	—
	80	60	1.0	2.0	100/300	500/5	0.25	500/50	150	FZT491CT-ND	1.09	.82	FZT491TR-ND	309.40
	60	60	1.0	1.5	40/250	150/2	0.5	500/50	100	BCP55CT-ND	1.02	.77	BCP55TR-ND	289.00
	45	45	1.0	1.5	40/250	150/2	0.5	500/50	100	BCP54CT-ND	1.02	.77	BCP54TR-ND	289.00
	25	20	1.0	2.0	63/400	500/1	1.0	1000/100	100	BCP68CT-ND	1.02	.77	BCP68TR-ND	289.00
PNP	-120	-100	-1.0	-2.0	100/300	-500/-2	-0.3	-500/-50	150	FZT593CT-ND	1.09	.82	FZT593TR-ND	309.40
	-100	-80	-1.0	-1.5	40/250	-150/-2	-0.5	-500/-50	125	BCP53CT-ND	1.02	.77	—	—
	-80	-60	-1.0	-2.0	100/300	-500/-5	-0.3	-500/-50	150	FZT591CT-ND	1.09	.82	FZT591TR-ND	309.40
	-70	-60	-1.0	-2.0	100/300	-100/-1	-0.25	-150/-15	100	BSP31CT-ND	1.02	.77	BSP31TR-ND	289.00
	-60	-60	-1.0	-1.5	40/250	-150/-2	-0.5	-500/-50	125	BCP52CT-ND	1.02	.77	—	—
	-45	-45	-1.0	-1.5	40/250	-150/-2	-0.5	-500/-50	125	BCP51CT-ND	1.02	.77	BCP51TR-ND	289.00
	-35	-30	-1.0	-2.0	100/300	-500/-5	-0.5	-1000/-100	100	FZT549CT-ND	1.09	.82	FZT549TR-ND	309.40
	-25	-20	-1.0	-2.0	63/400	-500/-1	-0.5	-1000/-100	100	BCP69CT-ND	1.02	.77	—	—
High Gain Transistors — SOT-223 Package														
NPN	180	180	0.5	1.0	500/–	100/5	0.25	200/5	70	FZT696BCT-ND	1.31	.99	FZT696BTR-ND	372.30
	150	75	4.5	10.0	300/1200	500/2	0.21	2000/100	140	FZT1053ACT-ND	1.30	.98	FZT1053ATR-ND	367.20
	150	60	5.0	10.0	270/1200	1000/2	0.18	3000/10	150	FZT1051ACT-ND	1.30	.98	FZT1051ATR-ND	367.20
	120	120	1.0	2.0	400/–	200/2	0.25	100/0.5	130	FZT694BCT-ND	1.31	.99	FZT694BTR-ND	372.30
	80	30	5.0	20.0	300/1200	1000/2	0.33	5000/50	180	FZT1049ACT-ND	1.30	.98	FZT1049ATR-ND	367.20
	70	70	1.0	2.0	400/–	500/2	0.15	100/0.5	150	FZT692BCT-ND	1.31	.99	FZT692BTR-ND	372.30
	50	17.5	5.0	20.0	300/1200	1000/2	0.35	5000/25	150	FZT1048ACT-ND	1.30	.98	FZT1048ATR-ND	367.20
	45	45	2.0	6.0	400/–	1000/2	0.1	100/0.5	150	FZT690BCT-ND	1.31	.99	FZT690BTR-ND	372.30
	35	10	5.0	20.0	300/1200	1000/2	0.35	5000/25	150	FZT1047ACT-ND	1.30	.98	FZT1047ATR-ND	367.20
	20	20	3.0	8.0	400/–	2000/2	0.45	3000/20	150	FZT689BCT-ND	1.31	.99	FZT689BTR-ND	372.30
	12	12	4.0	10.0	400/–	3000/2	0.35	3000/20	150	FZT688BCT-ND	1.31	.99	FZT688BTR-ND	372.30
PNP	-200	-200	-0.5	-1.0	250/–	-300/-10	-0.3	-200/-20	100	FZT796ACT-ND	1.31	.99	FZT796ATR-ND	372.30
	-140	-140	-0.5	-1.0	250/–	-200/-2	-0.3	-200/-5	100	FZT795ACT-ND	1.31	.99	FZT795ATR-ND	372.30
	-75	-70	-2.0	-5.0	250/–	-500/-2	-0.5	-1000/-25	100	FZT792ACT-ND	1.31	.99	FZT792ATR-ND	372.30
	-50	-40	-2.0	-6.0	250/–	-500/-2	-0.45	-1000/-10	100	FZT790ACT-ND	1.31	.99	FZT790ATR-ND	372.30
	-45	-40	-3.0	-5.0	250/800	-500/-2	0.3	-3000/-250	145	FZT1151ACT-ND	1.38	1.04	FZT1151ATR-ND	391.00
	-30	-25	-4.0	-10.0	250/800	-500/-2	0.35	-4000/-140	135	FZT1149ACT-ND	1.38	1.04	FZT1149ATR-ND	391.00
	-25	-25	-2.0	-6.0	250/–	-1000/-2	-0.45	-2000/-20	100	FZT789ACT-ND	1.31	.99	FZT789ATR-ND	372.30
	-15	-15	-3.0	-8.0	300/–	-2000/-2	-0.45	-2000/-10	100	FZT788BCT-ND	1.31	.99	FZT788BTR-ND	372.30
	-15	-12	-5.0	-20.0	250/850	-500/-2	0.4	-5000/-50	115	FZT1147ACT-ND	1.38	1.04	FZT1147ATR-ND	391.00
High Current Transistors — SOT-223 Package														
NPN	350	300	3.5	5.0	100/300	1000/5	0.23	2000/200	80	FZT857CT-ND	1.84	1.38	FZT857TR-ND	520.20
	200	150	5.0	10.0	100/300	1000/5	0.11	1000/100	90	FZT855CT-ND	1.84	1.38	FZT855TR-ND	520.20
	200	100	6.0	10.0	100/300	2000/2	0.15	2000/100	130	FZT853CT-ND	1.84	1.38	FZT853TR-ND	520.20
	150	60	6.0	20.0	100/300	2000/1	0.17	2000/50	130	FZT851CT-ND	1.84	1.38	FZT851TR-ND	520.20
	80	30	7.0	20.0	100/300	1000/1	0.215	2000/20	100	FZT849CT-ND	1.84	1.38	FZT849TR-ND	520.20
	80	25	6.5	20.0	300/–	1000/1	0.215	2000/10	100	FZT869CT-ND	1.84	1.38	FZT869TR-ND	520.20
PNP	-400	-400	-0.5	-1.5	100/300	-500/-10	-0.40	-500/-100	85	FZT958CT-ND	1.84	1.38	FZT958TR-ND	520.20
	-300	-300	-1.0	-2.0	100/300	-500/-10	-0.24	-1000/-300	85	FZT957CT-ND	1.84	1.38	FZT957TR-ND	520.20
	-220	-200	-2.0	-5.0	100/300	-1000/-5	-0.165	-1000/-100	110	FZT956CT-ND	1.84	1.38	FZT956TR-ND	520.20
	-180	-140	-4.0	-10.0	100/300	-1000/-5	-0.15	-1000/-100	110	FZT955CT-ND	1.84	1.38	FZT955TR-ND	520.20
	-140	-100	-5.0	-10.0	100/300	-1000/-1	-0.22	-2000/-200	125	FZT953CT-ND	1.84	1.38	FZT953TR-ND	520.20
	-100	-60	-5.0	-15.0	100/300	-2000/-1	-0.21	-2000/-200	120	FZT951CT-ND	1.84	1.38	FZT951TR-ND	520.20
	-50	-30	-5.5	-20.0	100/300	-1000/-1	-0.27	-2000/-200	80	FZT949CT-ND	1.84	1.38	FZT949TR-ND	520.20
	-40	-20	-6.0	-20.0	100/300	-1000/-1	-0.18	-2000/-200	80	FZT948CT-ND	1.84	1.38	FZT948TR-ND	520.20
	-15	-12	-6.0	-20.0	300/1000	-500/-1	-0.17	-2000/-50	80	FZT968CT-ND	1.84	1.38	FZT968TR-ND	520.20
Switching Transistors — SOT-223 Package														
NPN	75	40	0.6	—	100/300	150/10	0.4	150/15	250	FZT2222ACT-ND	1.11	.84	FZT2222ATR-ND	314.50
PNP	-60	-60	-0.6	—	100/300	-150/-10	-0.4	-150/-15	200	FZT2907ACT-ND	1.11	.84	FZT2907ATR-ND	314.50
	-40	-40	-0.6	—	100/300	-150/-2	-0.4	-150/-15	200	FZT4403CT-ND	1.11	.84	FZT4403TR-ND	314.50

* Darlington

Transistors — SOT-323 Package

Type	V_{CBO} (V)	V_{CEO} (V)	I_C (mA)	h_{FE} at I_C/V_{CE} Min./Max.	(mA/V)	$V_{CE(sat)}$ Max. (V)	I_C (mA)	I_B (mA)	fT typ (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Super 323-500mW															
NPN	50	50	1000	200/-	500/5	0.18	500	25	180	ZUMT619CT-ND	.43	.33	.22	ZUMT619TR-ND	129.60/M
	20	20	1250	200/-	1000/2	0.2	1000	10	195	ZUMT618CT-ND	.43	.33	.22	ZUMT618TR-ND	129.60/M
	15	15	1500	200/-	1000/2	0.18	1000	10	130	ZUMT617CT-ND	.43	.33	.22	ZUMT617TR-ND	129.60/M
PNP	-40	-40	-1000	180/-	-500/-5	-0.3	-500	-25	190	ZUMT720CT-ND	.43	.33	.22	ZUMT720TR-ND	129.60/M
	-20	-20	-1000	180/-	-500/-2	-0.18	-500	-20	180	ZUMT718CT-ND	.43	.33	.22	ZUMT718TR-ND	129.60/M
	-12	-12	-1250	180/-	-1000/2	-0.24	-1000	-50	110	ZUMT717CT-ND	.43	.33	.22	ZUMT717TR-ND	129.60/M
RF Transistors															
NPN	30	15	100	20/-	3/1	0.4	10	10	600	ZUMT918CT-ND	.54	.41	.27	ZUMT918TR-ND	162.00/M
	25	15	25	25/150	2/1	—	—	—	1300	ZUMTS17CT-ND	.57	.43	.29	—	—
Switching Transistors — 330mW —SOT-323 Package															
NPN	40	15	200	40/120	10/1	0.20	10	1	500	ZUMT2369ACT-ND	.51	.39	.26	ZUMT2369ATR-ND	153.00/M

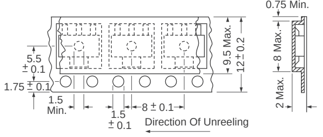
SOT-223



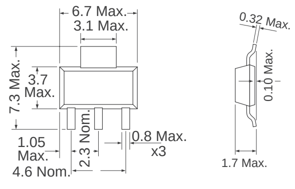
General Information: As surface mount continues to increase its penetration throughout the world of electronics, the SOT-223 is one of many surface mount packages which are the driving force behind this phenomenal growth. The package is capable of housing semiconductor crystals up to 2.5mm x 2.5mm offering power capabilities up to and above 2W (subject to mounting). Designed in a similar fashion to the very popular SOT-23 package, it ensures that it is fully compatible with all industry standard wave and reflow soldering techniques.

Maximum Thermal Ratings: Junction Temperature: 150°C. Operating and Storage Temperature: -55°C to +150°C.

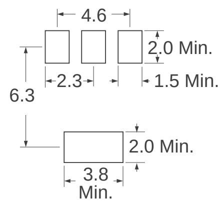
SOT-223



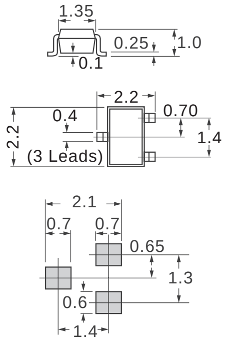
SOT-223 Package Outline



SOT-223 Pad Layout



SOT-323



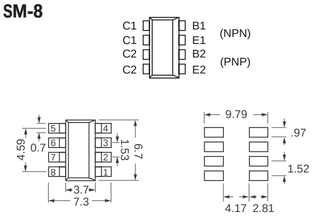
Transistors — Dual SM-8 Package

Now QS9000 Accredited!

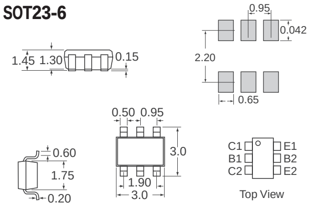
V_{CEO} (V)	V_{CBO} (V)	I_C (A)	I_{CM} (A)	$V_{CE(sat)}$ (mV) Max	IC (A)	IB (mA)	h_{FE} Min	IC (A)	VCE (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
Dual NPN Transistors																
15	15	3	12	200	3	50	200	3	2	ZDT617CT-ND	1.55	1.17	.70	ZDT617TR-ND	1,000	438.60
17.5	50	5	20	300	5	50	300	1	2	ZDT1048CT-ND	2.15	1.62	.97	ZDT1048TR-ND	1,000	608.60
25	35	2	6	500	2	200	75	2	2	ZDT649CT-ND	1.55	1.17	.70	ZDT649TR-ND	1,000	438.60
50	50	2	6	200	1	10	200	1	2	ZDT619CT-ND	1.55	1.17	.70	ZDT619TR-ND	1,000	438.60
45	45	2	6	500	1	5	400	1	2	ZDT690CT-ND	1.55	1.17	.70	ZDT690TR-ND	1,000	438.60
60	80	2	6	500	2	200	100	1	2	ZDT651CT-ND	1.55	1.17	.70	ZDT651TR-ND	1,000	438.60
120	140	1	4	1500	1	1	2000	1	5	ZDT605CT-ND*	1.55	1.17	.70	ZDT605TR-ND*	1,000	438.60
Dual PNP Transistors																
-12	-12	-2.5	-10	-220	-2.5	50	180	-2.5	-2	ZDT717CT-ND	1.55	1.17	.70	ZDT717TR-ND	1,000	438.60
NPN/PNP Transistors Combinations																
20 -20	20 -20	2 -1.5	6 -6	200 -220	2.5 -1.5	50 -50	200 150	2 -2	2 -2	ZDT6718CT-ND	1.55	1.17	.70	ZDT6718TR-ND	1,000	438.60
45 -40	45 -50	2 -2	6 -6	500 -450	1 -1	5 -10	150 150	2 -2	2 -2	ZDT6790CT-ND	1.55	1.17	.70	ZDT6790TR-ND	1,000	438.60
60 -60	80 -80	2 -2	4 -4	1200 -1200	2 -2	2 -2	2000 2000	2 -2	3 -3	ZDT6702CT-ND*	1.55	1.17	.70	ZDT6702TR-ND*	1,000	438.60
60 -60	80 -80	1 -1	6 -2	500 -600	1 -1	100 -100	100 100	0.5 0.5	5 5	ZXTD4591E6CT-ND†	.92	.69	.46	ZXTD4591E6TR-ND†	3,000	229.50/M
120 -120	140 -140	1 -1	4 -4	1500 1300	1 -1	1 -1	2000 3000	1 -1	5 -5	ZDT6705CT-ND*	1.55	1.17	.70	ZDT6705TR-ND*	1,000	438.60
300 -300	300 -300	0.5 -0.5	1 -1	500 -500	0.1 -0.1	10 -10	50 50	0.1 -0.1	5 -5	ZDT6757CT-ND	1.55	1.17	.70	ZDT6757TR-ND	1,000	438.60

* Darlington † SOT23-6

SM-8



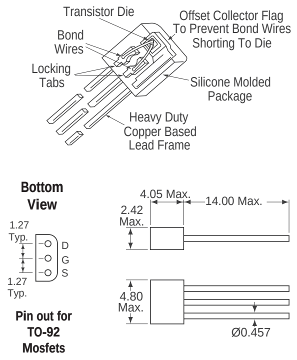
SOT23-6



MOSFETs — E-Line, Modified TO-92 Package

Type	BV DSS (V)	I_D (mA)	I_{DM} (A)	$V_{GS(th)}$ (V) Min.	at Max.	I_D (mA)	$R_{DS(on)}$ (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Digi-Key Part No.	Price Each 1	10	100	1,000
MOSFETs — TO-92															
N-Channel	450	90	0.6	1.0	3.0	1	50	100	10	0.7	ZVN0545A-ND	1.63	1.23	.74	.47
	350	90	0.8	0.5	1.5	1	40	50	3	0.7	ZVNL535A-ND	1.63	1.23	.74	.47
	240	260	1	0.8	1.8	1	6	100	2.5	0.75	ZVN4424A-ND	1.27	.96	.58	.37
	200	120	2	—	—	—	23	25	2.6	0.5	BS107P-ND	1.04	.79	.47	.30
	200	180	2	0.5	1.5	1	10	125	3	0.7	ZVNL120A-ND	1.10	.83	.50	.32
	100	320	6	0.8	2.4	1	4	1000	10	0.7	ZVN2110A-ND	1.02	.77	.46	.29
	100	200	2	0.8	2.4	1	10	500	10	0.625	ZVN3310A-ND	.75	.57	.38	.25
	100	900	12	1.0	3.0	1	0.65	1500	5	0.85	ZVN4310A-ND	2.10	1.58	.95	.60
	100	450	6	0.8	2.4	1	1.8	500	5	0.7	ZVN4210A-ND	1.21	.91	.55	.35
	100	320	6	0.75	1.5	1	4.5	250	5	0.7	ZVNL110A-ND	1.02	.77	.46	.29
	60	600	8	1.3	3.0	1	1.5	500	5	0.7	ZVN4206A-ND	1.02	.77	.46	.29
	60	450	8	0.8	2.4	1	2	1000	10	0.7	ZVN2106A-ND	1.02	.77	.46	.29
	60	270	3	0.8	2.4	1	5	500	10	0.625	ZVN3306A-ND	.75	.57	.38	.25
	60	270	3	0.8	2.5	1	7.5	200	5	0.625	VN10LP-ND	.75	.57	.38	.25
	60	270	3	0.8	3.0	1	5	200	10	0.625	BS170P-ND	.75	.57	.38	.25
	60	1100	20	1.3	3.0	1	0.45	1500	5	0.85	ZVN4306A-ND	2.10	1.58	.95	.60
P-Channel	-450	-45	-0.4	-1.5	-4.5	-1	150	-50	-10	0.7	ZVP0545A-ND	1.63	1.23	.74	.47
	-240	-200	-1	-0.8	-2.5	-1	15	-100	-3.5	0.75	ZVP4424A-ND	1.27	.96	.58	.37
	-200	-120	-1.2	-1.5	-4.5	-1	25	-150	-10	0.7	ZVP2120A-ND	1.10	.83	.50	.32
	-100	-230	-3	-1.5	-4.5	-1	8	-375	-10	0.7	ZVP2110A-ND	1.10	.83	.50	.32
	-100	-140	-1.2	-1.5	-4.5	-1	20	-150	-10	0.625	ZVP3310A-ND	.84	.63	.38	.24
	-60	-280	-4	-1.5	-4.5	-1	5	-500	-10	0.7	ZVP2106A-ND	1.10	.83	.50	.32
	-60	-160	-1.6	-1.5	-4.5	-1	14	-200	-10	0.625	ZVP3306A-ND	.84	.63	.38	.24
	-50	-175	-0.52	-0.8	-2.0	-1	10	-100	-5	0.625	ZVP4105A-ND	1.10	.83	.50	.32
	-45	-230	-3	-1.0	-3.5	-1	14	-200	-10	0.7	BS250P-ND	.69	.52	.35	.23
Avalanche Rated (Relay/Solenoid Drivers)															
N-Channel	60	600	8	1.3	3	1	1.5	500	5	0.7	ZVN4206AV-ND	1.30	.98	.59	.37
	60	1100	20	1.3	3	1	0.45	1500	5	1.1	ZVN4306AV-ND	2.10	1.58	.95	.60

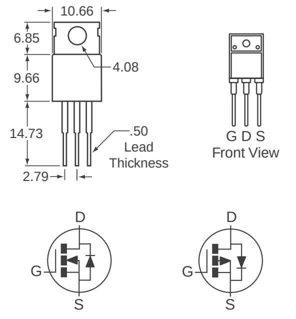
E-Line — TO-92 MOSFETs



MOSFETs — TO-220 Package

Type	V DSS (V)	I_D (A)	I_{DM} (A)	$V_{GS(th)}$ (V) Min.	I_D (µA)	$R_{DS(on)}$ (Ω) Max. @	I_D (A)	V_{GS} (V)	P_D (W)	Digi-Key Part No.	Price Each 1	10	100	500
N-Channel	35	13	30	1.0	250	0.060	3.7	10	20	ZXM64N035L3-ND	3.15	2.37	1.58	1.37
P-Channel	-35	-12	-19	-1.0	250	0.075	2.4	10	20	ZXM64P035L3-ND	3.36	2.52	1.68	1.46

TO-220 MOSFETs

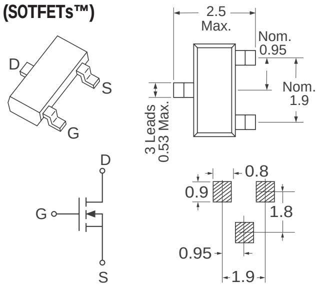


N-Channel P-Channel

MOSFETs — SOT-23 Package

Type	BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	P_D (mW)	$V_{GS(th)}$ (V) Min.	at Max.	I_D (mA)	$R_{DS(on)}$ (Ω) Max. @	I_D (mA)	V_{GS} (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T & R Pricing 3,000
N-Channel	200	60	1	300	1	3	1	25	100	10	ZVN3320FCT-ND	.64	.49	ZVN3320FTR-ND	160.50/M
	100	170	0.68	360	0.8	2.8	1	6	100	10	BSS123CT-ND	.42	.32	BSS123TR-ND	105.00/M
	100	100	2	330	0.8	2.4	1	10	500	10	ZVN3310FCT-ND	.64	.49	ZVN3310FTR-ND	160.50/M
	100	170	0.68	360	0.5	-1.5	1	8	150	4.5	ZXM41N10FCT-ND ***NEW!***	.76	.57	ZXM41N10FTR-ND ***NEW!***	189.00/M
	60	150	3	330	0.8	2.4	1	5	500	10	ZVN3306FCT-ND	.64	.49	ZVN3306FTR-ND	160.50/M
	60	200	3	330	1.3	3	1	2.5	500	10	ZVN4106FCT-ND	.76	.57	ZVN4106FTR-ND	189.00/M
	60	150	3	330	0.8	2.5	1	7.5	200	5	VN10LFCT-ND	.68	.52	VN10LFTR-ND	171.00/M
	60	115	0.8	300	1	2.5	250µA	7.5	500	10	2N7002CT-ND	.60	.45	2N7002TR-ND	180.00/M
	60	150	3	330	0.8	3	1	5	200	10	BS170FCT-ND	.76	.57	BS170FTR-ND	189.00/M
	60	1	4	800	1	—	250µA	0.3	1.8A	10	ZXMN6A07FCT-ND	.59	.45	ZXMN6A07FTR-ND	148.50/M
	50	200	0.8	360	0.5	1.5	1	3.5	200	5	BSS138ZXCT-ND	.42	.32	BSS138ZXTR-ND	105.00/M
	30	3.5	—	1000	1	—	250µA	0.065	3.2A	10	ZXMN3A14FCT-ND ***NEW!***	.96	.72	ZXMN3A14FTR-ND ***NEW!***	240.00/M
	20	1.7	8	800	0.7	—	250µA	0.120	4A	4.5	ZXMN2A01FCT-ND	.55	.42	ZXMN2A01FTR-ND	138.00/M
	20	3.3	19	1000	0.7	—	250µA	0.110	2.5A	2.5	ZXMN2A14FCT-ND ***NEW!***	.96	.72	ZXMN2A14FTR-ND ***NEW!***	240.00/M
P-Channel	-100	-75	-1.2	330	-1.5	-3.5	-1	20	-150	-10	ZVP3310FCT-ND	.76	.57	ZVP3310FTR-ND	189.00/M
	-100	-700	-3.1	800	-2.0	-4.0	-250µA	1	-600	-10	ZXMP10A13FCT-ND ***NEW!***	.67	.51	ZXMP10A13FTR-ND ***NEW!***	168.00/M
	-60	-90	-1.6	330	-1.5	-3.5	-1	14	-200	-10	ZVP3306FCT-ND	.76	.57	ZVP3306FTR-ND	189.00/M
	-60	-1100	-4	800	-1.0	—	-250µA	0.4	-900	-10	ZXMP6A13FCT-ND ***NEW!***	.63	.48	ZXMP6A13FTR-ND ***NEW!***	157.50/M
	-50	-130	-0.52	360	-0.8	-2.0	-1	10	-100	-5	BSS84ZXCT-ND	.45	.34	BSS84ZXTR-ND	135.00/M
	-45	-90	-1.6	330	-1	-3.5	-1	14	-200	-10	BS250FCT-ND	.68	.51	BS250FTR-ND	169.50/M

SOT-23 MOSFETs (SOTFETs™)



Low Voltage MOSFETs — SOT-23 and SC59-6 Packages

Type	V_{DS} (V)	I_D (A)	R_{DS}(on) 2.7V	Max. Ohms @V_{GS} 4.5V	10V	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 3,000
SOT-23 Package											
N-Channel	20	1.7	0.24	0.18	—	ZXM61N02FCT-ND	.62	.47	.32	ZXM61N02FTR-ND	208.00/M
	30	1.4	—	0.30	0.22	ZXM61N03FCT-ND	.62	.47	.32	ZXM61N03FTR-ND	208.00/M
	30	2	—	0.18	0.12	ZXMN3A01FCT-ND	.55	.42	.28	ZXMN3A01FTR-ND	138.00/M
	100	0.64	—	—	0.7	ZXMN10A07FCT-ND	.59	.45	.30	ZXMN10A07FTR-ND	148.50/M
P-Channel	-20	-0.9	0.90	0.60	—	ZXM61P02FCT-ND	.64	.49	.33	ZXM61P02FTR-ND	214.00/M
	-30	-1.1	—	0.55	0.35	ZXM61P03FCT-ND	.64	.49	.33	ZXM61P03FTR-ND	214.00/M
	-30	-1.6	—	0.33	0.21	ZXMP3A13FCT-ND	.63	.48	.32	ZXMP3A13FTR-ND	178.50/M
SC59-6 Package											
N-Channel	20	3.2	0.125	0.10	—	ZXM62N02E6CT-ND	1.02	.77	.46	ZXM62N02E6TR-ND	255.00/M
	30	3.2	—	0.15	0.11	ZXM62N03E6CT-ND	.90	.68	.41	ZXM62N03E6TR-ND	225.00/M
P-Channel	-20	-2.3	0.375	0.20	—	ZXM62P02E6CT-ND	1.08	.81	.49	ZXM62P02E6TR-ND	270.00/M
	-30	-2.6	—	0.23	0.15	ZXM62P03E6CT-ND	1.08	.81	.49	ZXM62P03E6TR-ND	270.00/M

MOSFETs — Dual N-Channel SM-8

B_{VDSS} (V)	I_D (A)	I_{DM} (A)	$V_{GS(th)}$ (V) min.	@ max.	I_D mA	R_{DS}(on) (Ω) max.	V_{GS} (V)	I_D (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	5,000
Dual N-Channel MOSFETs															
60	1	8.0	1.3	3	1	1	10	1.5	ZDM4206NCT-ND	2.88	2.16	1.30	ZDM4206NTR-ND	816.00	624.00/M
60	2	15	1.3	3	1	0.33	10	3	ZDM4306NCT-ND	3.48	2.61	1.57	ZDM4306NTR-ND	986.00	754.00/M

MOSFETs — MSOP8 Package

(P_D = 1.8W single chip device; P_D = 1.25W for dual chip devices)

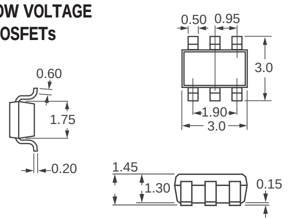
Type	V_{DS} (V)	I_D (A)	R_{DS}(on) 2.7V	Max. Ohms @ V_{GS}= 4.5V	10V	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000
8-MSOP MOSFETS											
N-Channel	20	5.7	0.05	0.050	—	ZXM64N02XCT-ND	1.98	1.49	.90	ZXM64N02XTR-ND	561.00
	20	7.6	0.040†	0.020	—	ZXMN2A02X8CT-ND	1.79	1.35	.90	ZXMN2A02X8TR-ND	508.30
	30	6.7	—	0.035	0.025	ZXMN3A02X8CT-ND	1.81	1.36	.91	ZXMN3A02X8TR-ND	511.70
	30	5	—	0.060	0.045	ZXM64N03XCT-ND	1.98	1.49	.90	ZXM64N03XTR-ND	561.00
P-Channel	-20	-3.6	0.13	0.090	—	ZXM64P02XCT-ND	2.10	1.58	.95	ZXM64P02XTR-ND	595.00
	-30	-3.8	—	0.100	0.075	ZXM64P03XCT-ND	2.40	1.80	1.08	ZXM64P03XTR-ND	595.00
Dual N-Channel	20	2.4	0.150	0.130	—	ZXMD63N02XCT-ND	2.40	1.80	1.08	ZXMD63N02XTR-ND	680.00
	30	2.3	—	0.200	0.135	ZXMD63N03XCT-ND	2.40	1.80	1.08	ZXMD63N03XTR-ND	680.00
Dual P-Channel	-20	-1.7	0.40	0.270	—	ZXMD63P02XCT-ND	2.52	1.89	1.14	ZXMD63P02XTR-ND	714.00
	-30	-2	—	0.270	0.185	ZXMD63P03XCT-ND	2.52	1.89	1.14	ZXMD63P03XTR-ND	714.00
N & P Channel Complimentary	20	2.4	0.150	0.130	—	ZXMD63C02XCT-ND	2.28	1.71	1.03	ZXMD63C02XTR-ND	646.00
	-20	-1.7	0.40	0.27	—						
	30	2.3	—	0.200	0.135	ZXMD63C03XCT-ND	2.28	1.71	1.03	ZXMD63C03XTR-ND	646.00
	-20	-2	—	0.270	0.185						

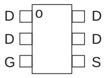
† at 2.5V

MOSFETs — SOT-223 Package

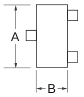
Type	B_{VDSS} (V)	I_D (A)	I_{DM} (A)	V_{GS} (th) V at I_D Min.	Max.	(mA)	R_{DS}(on) Ω Max.	I_D (mA)	V_{GS} (V)	PD (W)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T & R Pricing 1,000
MOSFET															
N-Channel	450	0.14	0.6	1.0	3.0	1.0	50	0.10	10	2.0	ZVN0545GCT-ND	1.50	1.13	ZVN0545GTR-ND	425.00
	250	0.31	1.44	0.8	1.8	1	9	310	4.5	2.0	ZVN4525GCT-ND	.96	.72	ZVN4525GTR-ND	272.00
	240	0.5	1.5	0.8	1.8	1.0	6.0	0.10	2.5	2.5	ZVN4424GCT-ND	1.74	1.31	ZVN4424GTR-ND	493.00
	200	0.32	2.0	1.0	3.0	1.0	10	0.25	10	2.0	ZVN2120GCT-ND	1.03	.77	ZVN2120GTR-ND	290.70
	200	0.32	2.0	0.5	1.5	1.0	10	0.125	3.0	2.0	ZVNL120GCT-ND	1.03	.77	ZVNL120GTR-ND	290.70
	100	1.7	12	1.0	3.0	1.0	0.5	3.0	10	3.0	ZVN4310GCT-ND	2.32	1.75	ZVN4310GTR-ND	657.90
	100	1.8	5.8	2	4	0.25	0.6	2.6A	10	3.9	ZXMN10A11GCT-ND	1.20	.90	ZXMN10A11GTR-ND	340.00
	100	0.6	6.0	0.75	1.5	1.0	4.5	0.25	5	2.0	ZVNL110GCT-ND	1.03	.77	ZVNL110GTR-ND	290.70
	100	0.5	6.0	0.8	2.4	1.0	4.0	1.0	10	2.0	ZVN2110GCT-ND	1.03	.77	ZVN2110GTR-ND	290.70
	60	2.1	20	1.3	3	1.0	0.33	3	10	3.0	ZVN4306GCT-ND	2.32	1.75	ZVN4306GTR-ND	657.90
	60	6.9	17.6	1	—	0.25	0.045	8.2A	10	3.9	ZXMN6A09GCT-ND *NEW!*	2.10	1.58	ZXMN6A09GTR-ND *NEW!*	595.00
	60	3.8	10	1	—	0.25	0.250	3.8A	4.5	3.9	ZXMN6A11GCT-ND	1.20	.90	ZXMN6A11GTR-ND	340.00
	60	1.0	8.0	1.3	3.0	1.0	1.0	1.5	10	2.0	ZVN4206GCT-ND	1.16	.87	ZVN4206GTR-ND	328.10
	60	0.7	8.0	0.8	2.4	1.0	2.0	1.0	10	2.0	ZVN2106GCT-ND	1.03	.77	ZVN2106GTR-ND	290.70
	35	6.7	30	1	—	0.25	0.050	3.7A	10	2.0	ZXM64N035GCT-ND *NEW!*	2.46	1.85	ZXM64N035GTR-ND *NEW!*	697.00
	40	7.0	22	1	—	0.25	.05	4.5	10	3.9	ZXMN4A06GCT-ND	1.63	1.23	ZXMN4A06GTR-ND	462.40
P-Channel	-30	-7.5	-24.9	-1	—	-0.25	.045	-4.2A	-10	3.9	ZXMP3A16GCT-ND *NEW!*	1.63	1.23	ZXMP3A16GTR-ND *NEW!*	462.40
	-35	-5.3	-19	-1	—	-0.25	0.075	-2.4A	-10	3.9	ZXM64P035GCT-ND *NEW!*	2.64	19.80	ZXM64P035GTR-ND *NEW!*	748.00
	-40	-6.4	-21	-1	—	-0.25	.06	-3.8	10	3.9	ZXMP4A16GCT-ND	1.63	1.23	ZXMP4A16GTR-ND	462.40
	-60	-0.45	-4.0	-1.5	-3.5	-1.0	5.0	-0.5	-10	2.0	ZVP2106GCT-ND	1.03	.77	ZVP2106GTR-ND	290.70
	-60	-2.3	-7.8	-1	—	-0.25	0.39	-0.9A	-10	2.0	ZXMP6A13GCT-ND *NEW!*	.88	.66	ZXMP6A13GTR-ND *NEW!*	248.20
	-60	-4.1	-13.7	-1	—	-0.25	0.125	-2.2A	-10	2.0	ZXMP6A17GCT-ND *NEW!*	1.04	.79	ZXMP6A17GTR-ND *NEW!*	295.80
	-100	-0.31	-3.0	-1.5	-3.5	-1.0	8.0	-0.375	-10	2.0	ZVP2110GCT-ND	1.03	.77	ZVP2110GTR-ND	290.70
	-100	-3.7	-16.5	-2	-4.0	-0.25	0.150	-2.8A	-10	3.9	ZXMP10A18GCT-ND *NEW!*	3.20	2.41	ZXMP10A18GTR-ND *NEW!*	907.80
	-240	-0.48	-1.0	-0.7	-2.0	-1.0	11	-0.1A	-3.5	2.5	ZVP4424GCT-ND	1.80	1.35	ZVP4424GTR-ND	510.00
	-250	-0.265	-1.0	-0.8	-2.0	-1.0	18	-0.1A	-3.5	2.0	ZVP4525GCT-ND	.96	.72	ZVP4525GTR-ND	272.00
	-450	-0.075	-0.4	-1.5	-4.5	-1.0	150	-0.05A	-10	2.0	ZVP0545GCT-ND	1.50	1.13	ZVP0545GTR-ND	425.00
Avalanche Rated MOSFETs															
N-Channel	60	1.0	8.0	1.3	3.0	1.0	1.0	1.5	10	2.0	ZVN4206GVCT-ND	1.23	.93	ZVN4206GVTR-ND	348.50
	60	2.10	20	1.3	3.0	1.0	0.33	3.0	10	3.0	ZVN4306GVCT-ND	2.10	1.58	ZVN4306GVTR-ND	595.00

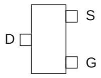
LOW VOLTAGE MOSFETs



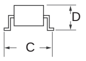


Pin out for SC59-6



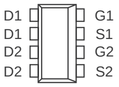


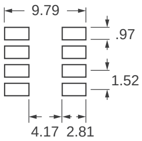
Pin out for SOT-23

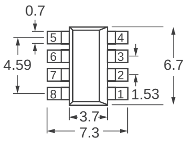


Package	Dimension (mm) A	B	C	D
SOT-23	3	1.46	2.5	1.1
SC59-6	3	1.75	3	1.45

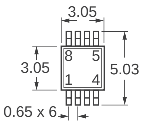
SM-8 MOSFET

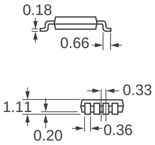




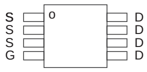


MSOP8 MOSFET

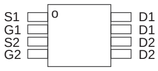




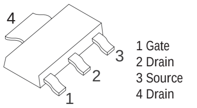
MSOP8 (Single) Pin out

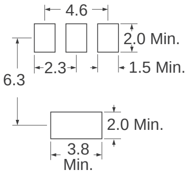


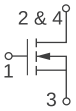
MSOP8 (Dual) Pin out



SOT-223 MOSFET





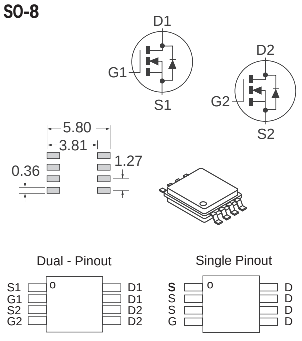


MOSFETs — SO8 Package

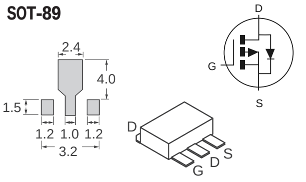
Type	BV_{DSS} (V)	I_D (A)	I_{DM} (A)	V_{GS} (th) V at I_D Min.	Max.	(mA)	R_{DS} (on) Ω Max.	I_D (A)	V_{GS} (V)	PD (W)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
SO-8 Package																	
N-Channel	30	9.1	45	0.7	—	0.25	0.025	5.7	4.5	2.5	ZXMN3B04N8CT-ND	1.97	1.49	.99	ZXMN3B04N8TR-ND	500	345.45
	20	10.2	50	1	—	0.25	0.020	11	4.5	2.5	ZXMN2A02N8CT-ND ***NEW!***	1.92	1.44	.87	ZXMN2A02N8TR-ND ***NEW!***	500	336.00
Dual N-Channel	60	2.7	8.3	1	—	0.25	0.140	4.4	10	2.1	ZXMN6A11DN8CT-ND⁎	1.46	1.10	.74	ZXMN6A11DN8TR-ND	500	256.20
	60	4.7	22	1	—	0.25	0.055	3.6	10	2.1	ZXMN6A25DN8-ND† ***NEW!***	2.06	1.55	.93	—	—	—
	60	5.1	25	1	—	0.25	0.045	8.2	10	2.1	ZXMN6A09DN8CT-ND⁎	3.56	2.68	1.79	ZXMN6A09DN8TR-ND	500	623.70
	30	6.2	30	1	—	0.25	0.035	9.0	10	2.1	ZXMN3A06DN8CT-ND⁎	1.89	1.42	.95	ZXMN3A06DN8TR-ND	500	315.00
	30	8.5	39	1	—	0.25	0.020	12.6	10	2.1	ZXMN3A04DN8CT-ND⁎	3.38	2.54	1.70	ZXMN3A04DN8TR-ND	500	592.20
	20	7.7	38	0.7	—	0.25	0.030	5.9	4.5	2.1	ZXMN2A04DN8CT-ND⁎	3.38	2.54	1.70	ZXMN2A04DN8TR-ND	500	592.20
P-Channel	-20	-8	-28	-0.7	—	-0.25	0.025	-3.2	-4.5	2.5	ZXM66P02N8CT-ND	3.56	2.68	1.79	ZXM66P02N8TR-ND	500	623.70
	-30	-7.9	-28	-1	—	-0.25	0.025	-5.6	-10	2.5	ZXM66P03N8CT-ND	3.56	2.68	1.79	ZXM66P03N8TR-ND	500	623.70
	-30	-6.7	-25	-1	—	-0.25	0.045	-4.2	-10	2.5	ZXMP3A16N8CT-ND	1.55	1.17	.78	ZXMP3A16N8TR-ND	500	270.90
Dual P-Channel	-20	-5.1	-18	-0.7	—	-0.25	0.050	-2.9	-4.5	2.1	ZXMD65P02N8CT-ND⁎	3.30	2.48	1.65	ZXMD65P02N8TR-ND	500	577.50
	-30	-5.5	-20	-1	—	-0.25	0.045	-4.2	-10	2.1	ZXMP3A16DN8CT-ND⁎	2.15	1.62	1.08	ZXMP3A16DN8TR-ND	500	375.90
	-30	-4.4	-16.2	-1	—	-0.25	0.070	-3.2	-10	2.1	ZXMP3A17DN8CT-ND⁎	1.97	1.49	.99	ZXMP3A17DN8TR-ND	500	345.45
	-30	-4.8	-18	-1	—	-0.25	0.055	-4.9	-10	2.1	ZXMD65P03N8CT-ND⁎	3.30	2.48	1.65	ZXMD65P03N8TR-ND	500	577.50
	-60	-3.9	-10.3	-1	—	-0.25	0.085	-2.9	-10	2.1	ZXMP6A16DN8CT-ND ***NEW!***	2.15	1.62	.97	ZXMP6A16DN8TR-ND ***NEW!***	500	375.90
	-60	-3.2	-14.2	-1	—	-0.25	0.125	-2.3	-10	2.1	ZXMP6A17DN8CT-ND ***NEW!***	1.63	1.23	.74	ZXMP6A17DN8TR-ND ***NEW!***	500	285.60
	-60	-4.8	-23.8	-1	—	-0.25	0.055	-3.5	-10	2.1	ZXMP6A18DN8CT-ND ***NEW!***	3.02	2.27	1.37	ZXMP6A18DN8TR-ND ***NEW!***	500	529.20
SOT-89 Package																	
N-Channel	250	0.24	1.44	0.8	1.8	1	9.50	0.02	2.4	2.1	ZVN4525ZCT-ND	.96	.72	.48	ZVN4525ZTR-ND	1,000	272.00
	60	2.2	6.8	1	—	0.25	0.30	1.8	10	2.6	ZXMN6A07ZCT-ND	.70	.53	.35	ZXMN6A07ZTR-ND	1,000	197.20
	60	3.2	12.3	1	—	0.25	0.14	4.4	10	2.6	ZXMN6A11ZCT-ND ***NEW!***	1.00	.76	.46	ZXMN6A11ZTR-ND ***NEW!***	1,000	283.90
	100	1.4	4.2	2	4	0.25	0.70	1.5	10	2.6	ZXMN10A07ZCT-ND	.71	.54	.36	ZXMN10A07ZTR-ND	1,000	200.60
P-Channel	-250	-0.2	-1	-0.8	-2	1	18	-0.1	-3.5	2.1	ZVP4525ZCT-ND	1.07	.81	.54	ZVP4525ZTR-ND	1,000	302.60
SOT23-6 Package																	
N-Channel	250	0.23	1.44	0.8	1.8	1	9.50	0.02	2.4	1.1	ZVN4525E6CT-ND	1.10	.83	.56	ZVN4525E6TR-ND	3,000	276.00/M
	30	4.6	17	1	—	0.25	0.050	7.8	10	1.7	ZXMN3A03E6CT-ND	.96	.72	.48	ZXMN3A03E6TR-ND	3,000	240.00/M
	20	3.1	11	0.7	—	0.25	0.12	4	4.5	1.7	ZXMN2A01E6CT-ND	.80	.60	.40	ZXMN2A01E6TR-ND	3,000	199.50/M
	100	1.5	5.3	2	4	0.25	0.25	3.2	10	1.7	ZXMN10A08E6CT-ND	1.00	.76	.51	ZXMN10A08E6TR-ND	3,000	250.50/M
	100	1.9	9	1	3	0.25	0.30	1.4	4.5	1.7	ZXMN10B08E6CT-ND ***NEW!***	1.26	.95	.57	ZXMN10B08E6TR-ND ***NEW!***	3,000	315.00/M
	60	3.1	4	1	—	0.25	0.100	4.8	10	1.7	ZXMN6A08E6CT-ND	1.00	.76	.51	ZXMN6A08E6TR-ND	3,000	250.50/M
	30	3	10	1	—	0.25	0.12	2.5	10	1.7	ZXMN3A01E6CT-ND	.80	.60	.40	ZXMN3A01E6TR-ND	3,000	199.50/M
	20	4.6	16	0.7	—	0.25	0.055	7.2	4.5	1.7	ZXMN2A03E6CT-ND	.96	.72	.48	ZXMN2A03E6TR-ND	3,000	240.00/M
P-Channel	-250	-0.197	-1	-0.8	-2	-0.25	18	-0.1	-3.5	1.1	ZVP4525E6CT-ND	.96	.72	.48	ZVP4525E6TR-ND	3,000	240.00/M
	-100	-1.6	-7.7	-2	-4	-0.25	0.35	-1.4	-10	1.7	ZXMP10A17E6CT-ND ***NEW!***	1.26	.95	.57	ZXMP10A17E6TR-ND ***NEW!***	3,000	315.00/M
	-60	-3	-13.6	-1	—	-0.25	0.125	-2.3	-10	1.7	ZXMP6A17E6CT-ND ***NEW!***	1.04	.79	.47	ZXMP6A17E6TR-ND ***NEW!***	3,000	261.00/M
	-30	-4	-14.4	-1	—	-0.25	0.07	-3.2	-10	1.7	ZXMP3A17E6CT-ND	1.04	.79	.53	ZXMP3A17E6TR-ND	3,000	295.80/M

⁎ Dual Mosfet † Bulk Pricing

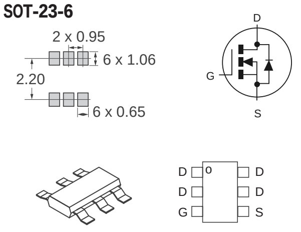
SO-8



SOT-89



SOT-23-6

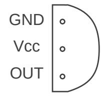


Voltage Supply Monitors

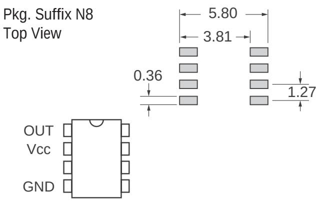
Typical V cc (V)	Threshold Voltage (V)	Typical Hysteresis (mV)	Max. Output Sink Current (mA)	Input Voltage Range (V)	Max. Quiescent Current (μA)	Digi-Key Part No.	Price Each 1	10	100	1,000
Voltage Supply Monitors — TO-92										
5	4.6	20	60	1 to 6.5	200	ZM33064CL-ND	1.55	1.17	.70	.44
5	4.3	20	60	1 to 6.5	200	ZM33164CL-ND	1.55	1.17	.70	.44
3	2.63	20	60	1 to 6.5	200	ZSM300C-ND	1.62	1.22	.73	.46
3	2.68	20	60	1 to 10	190	ZM331643C-ND	1.62	1.22	.73	.46
3.3	3.08	20	60	1 to 6.5	200	ZSM330C-ND	1.62	1.22	.73	.46
5	4.6	20	60	1 to 6.5	200	ZSM560C-ND	1.62	1.22	.73	.46
5	4.6	20	60	1 to 7.0	200	ZSM561C-ND	1.62	1.22	.73	.46
3	3.1	20	50	-1 to 10	180	ZSH330C-ND	1.62	1.22	.73	.46
5	4.6	20	50	-1 to 10	180	ZSH560C-ND	1.62	1.22	.73	.46

Typical V cc (V)	Thresh-hold Voltage (V)	Typical Hysteresis (mV)	Max. Output Sink Current (mA)	Input Voltage Range (V)	Max. Quiescent Current (μA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 500	1,000
Voltage Supply Monitors — SO-8												
5	4.6	20	60	1 to 6.5	200	ZM33064N8CT-ND	1.89	1.42	.86	ZM33064N8TR-ND	330.75	535.50
5	4.3	20	60	1 to 6.5	200	ZM33164N8CT-ND	1.89	1.42	.86	ZM33164N8TR-ND	330.75	535.50
3	2.68	20	60	1 to 10	190	ZM331643N8CT-ND	1.89	1.42	.86	ZM331643N8TR-ND	330.75	535.50
3	2.63	20	60	1 to 6.5	200	ZSM300N8CT-ND	2.49	1.87	1.13	ZSM300N8TR-ND	435.75	705.50
3.3	3.08	20	60	1 to 6.5	200	ZSM330N8CT-ND	2.49	1.87	1.13	ZSM330N8TR-ND	435.75	705.50
5	4.6	20	60	1 to 6.5	200	ZSM560N8CT-ND	2.49	1.87	1.13	ZSM560N8TR-ND	435.75	705.50
3.3	3.1	20	50	-1 to 10	180	ZSH330N8CT-ND	2.49	1.87	1.13	ZSH330N8TR-ND	435.75	705.50
5	4.6	20	50	-1 to 10	180	ZSH560N8CT-ND	2.49	1.87	1.13	ZSH560N8TR-ND	435.75	705.50
Voltage Supply Monitors — SOT-223												
5	4.6	20	60	1 to 6.5	200	ZM33064GCT-ND	1.61	1.21	.73	ZM33064GTR-ND	—	455.60
5	4.3	20	60	1 to 6.5	200	ZM33164GCT-ND	1.61	1.21	.73	ZM33164GTR-ND	—	455.60
3	2.68	20	60	1 to 10	190	ZM331643GCT-ND	1.61	1.21	.73	ZM331643GTR-ND	—	455.60
3	2.63	20	60	1 to 6.5	200	ZSM300GCT-ND	1.92	1.44	.87	ZSM300GTR-ND	—	544.00
3.3	3.08	20	60	1 to 6.5	200	ZSM330GCT-ND	1.92	1.44	.87	ZSM330GTR-ND	—	544.00
5	4.6	20	60	1 to 6.5	200	ZSM560GCT-ND	1.92	1.44	.87	ZSM560GTR-ND	—	544.00
5	4.6	20	60	1 to 7.0	200	ZSM561GCT-ND	1.92	1.44	.87	ZSM561GTR-ND	—	544.00
3.3	3.1	20	50	-1 to 10	180	ZSH330GCT-ND	1.92	1.44	.87	ZSH330GTR-ND	—	544.00
5	4.6	20	50	-1 to 10	180	ZSH560GCT-ND	1.92	1.44	.87	ZSH560GTR-ND	—	544.00

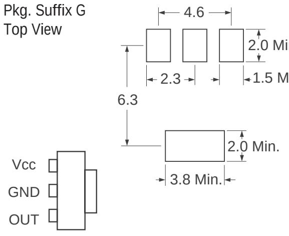
TO-92
Pkg. Suffix C
Bottom View



SO-8
Pkg. Suffix N8
Top View



SOT-223
Pkg. Suffix G
Top View



Voltage Regulators

Output Voltage (V)	Max. Output Current (mA)	Ptot (W)	Max Line Regulation (mV)	Max Load Regulation (mV)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Price Each 1,000
200mA ZR78L Series Local Voltage Regulators — TO-92									
8.5	200	0.6	40	30	ZR78L085C-ND	1.08	.81	.49	.31

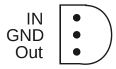
Output Voltage (V)	Max. Output Current (mA)	Ptot (W)	Max Line Regulation (mV)	Max Load Regulation (mV)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
200mA ZR78L Series Local Voltage Regulators — SOT-223										
2.85	200	2	40	25	ZR78L028GCT-ND	1.61	1.21	.73	ZR78L028GTR-ND	455.60
3.0	200	2	40	25	ZR78L03GCT-ND	1.61	1.21	.73	ZR78L03GTR-ND	455.60
3.3	200	2	30	25	ZR78L033GCT-ND	1.61	1.21	.73	ZR78L033GTR-ND	455.60
4.0	200	2	40	25	ZR78L04GCT-ND	1.61	1.21	.73	ZR78L04GTR-ND	455.60
4.85	200	2	40	25	ZR78L048GCT-ND	1.61	1.21	.73	ZR78L048GTR-ND	455.60
5.0	200	2	40	25	ZR78L05GCT-ND	1.61	1.21	.73	ZR78L05GTR-ND	455.60
5.2	200	2	40	25	ZR78L052GCT-ND	1.61	1.21	.73	ZR78L052GTR-ND	455.60
5.7	200	2	40	30	ZR78L057GCT-ND	1.61	1.21	.73	ZR78L057GTR-ND	455.60
6.0	200	2	40	30	ZR78L06GCT-ND	1.61	1.21	.73	ZR78L06GTR-ND	455.60
7.0	200	2	40	25	ZR78L07GCT-ND	1.61	1.21	.73	ZR78L07GTR-ND	455.60
8.0	200	2	40	30	ZR78L08GCT-ND	1.61	1.21	.73	ZR78L08GTR-ND	455.60
8.5	200	2	40	30	ZR78L085GCT-ND	1.61	1.21	.73	ZR78L085GTR-ND	455.60
9.0	200	2	40	30	ZR78L09GCT-ND	1.61	1.21	.73	ZR78L09GTR-ND	455.60
10.0	200	2	40	30	ZR78L10GCT-ND	1.61	1.21	.73	ZR78L10GTR-ND	455.60
12.0	200	2	40	30	ZR78L12GCT-ND	1.61	1.21	.73	ZR78L12GTR-ND	455.60

Output Voltage (V)	Max. Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
200mA ZSR Series Local Voltage Regulators - Sot-223										
3.3	200	2.0	30	25	ZSR330GCT-ND	1.81	1.36	.82	ZSR330GTR-ND	511.70
5.0	200	2.0	40	25	ZSR500GCT-ND	1.81	1.36	.82	ZSR500GTR-ND	511.70
6.0	200	2.0	40	30	ZSR600GCT-ND	1.81	1.36	.82	ZSR600GTR-ND	511.70
8.0	200	2.0	40	30	ZSR800GCT-ND	1.81	1.36	.82	ZSR800GTR-ND	511.70
10.0	200	2.0	40	30	ZSR1000GCT-ND	1.81	1.36	.82	ZSR1000GTR-ND	511.70

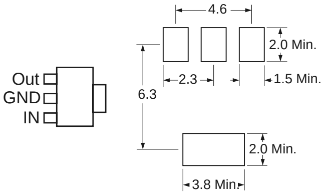
Output Voltage (V)	Max. Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000
200mA ZSR Series Local Voltage Regulators — SO-8											
2.85	200	0.78	40	25	ZSR285N8CT-ND	2.49	1.87	1.13	ZSR285N8TR-ND	435.75	705.50
3.0	200	0.78	40	25	ZSR300N8CT-ND	2.49	1.87	1.13	ZSR300N8TR-ND	435.75	705.50
3.3	200	0.78	30	25	ZSR330N8CT-ND	2.49	1.87	1.13	ZSR330N8TR-ND	435.75	705.50
4.0	200	0.78	40	25	ZSR400N8CT-ND	2.49	1.87	1.13	ZSR400N8TR-ND	435.75	705.50
4.85	200	0.78	40	25	ZSR485N8CT-ND	2.49	1.87	1.13	ZSR485N8TR-ND	—	705.50
5.0	200	0.78	40	25	ZSR500N8CT-ND	2.49	1.87	1.13	ZSR500N8TR-ND	435.75	705.50
5.2	200	0.78	40	25	ZSR520N8CT-ND	2.49	1.87	1.13	ZSR520N8TR-ND	—	705.50
5.7	200	0.78	40	30	ZSR570N8CT-ND	2.49	1.87	1.13	ZSR570N8TR-ND	435.75	705.50
6.0	200	0.78	40	30	ZSR600N8CT-ND	2.49	1.87	1.13	ZSR600N8TR-ND	435.75	705.50
7.0	200	0.78	40	25	ZSR700N8CT-ND	2.49	1.87	1.13	ZSR700N8TR-ND	—	705.50
8.0	200	0.78	40	30	ZSR800N8CT-ND	2.49	1.87	1.13	ZSR800N8TR-ND	435.75	705.50
8.5	200	0.78	40	30	ZSR850N8CT-ND	2.49	1.87	1.13	ZSR850N8TR-ND	—	705.50
9.0	200	0.78	40	30	ZSR900N8CT-ND	2.49	1.87	1.13	ZSR900N8TR-ND	435.75	705.50
10.0	200	0.78	40	30	ZSR1000N8CT-ND	2.49	1.87	1.13	ZSR1000N8TR-ND	435.75	705.50
12.0	200	0.78	40	30	ZSR1200N8CT-ND	2.49	1.87	1.13	ZSR1200N8TR-ND	—	705.50

Local Voltage Regulators

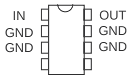
TO-92
Bottom View

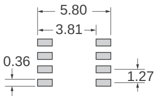


SOT-223
Top View



SO-8
Top View
Pkg. Suffix N8





Shunt Voltage Regulators

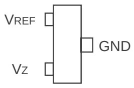
Reference Voltage (V)	Output Voltage (V) Min.	Max.	Min. Operating Current (µA)	Tol. (%)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Shunt Voltage Regulators — SOT-23										
2.5	2.5	20	50	2	ZR431FCT-ND	.78	.59	.36	ZR431FTR-ND	195.00/M
2.5	2.5	20	50	1	ZR431F01CT-ND	1.08	.81	.49	ZR431F01TR-ND	270.00/M
2.5	2.5	20	50	0.5	ZR431F005TACT-ND	1.32	.99	.60	ZR431F005TATR-ND	330.00/M
Shunt Voltage Regulators — SOT-23										
1.24	1.24	15	30	2.5	ZR2431F02CT-ND	1.32	.99	.60	ZR2431F02TR-ND	330.00/M
1.24	1.24	15	30	1	ZR2431F01CT-ND	1.74	1.31	.79	ZR2431F01TR-ND	435.00/M
Improved Stability Low Voltage Shunt Regulators — SOT-23										
1.24	1.24	10	30	1	ZR431LF01CT-ND	1.20	.90	.54	ZR431LF01TR-ND	300.00/M
1.24	1.24	10	30	2.5	ZR431LF02CT-ND	.87	.66	.40	ZR431LF02TR-ND	217.50/M

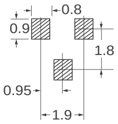
Reference Voltage (V)	Output Voltage (V) Min.	Max.	Min. Operating Current (µA)	Tol. %	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500
Shunt Voltage Regulators — SO-8										
2.5	2.5	20	50	2	ZR431N8CT-ND	1.72	1.29	.78	ZR431N8TR-ND	300.30
2.5	2.5	20	50	1	ZR431N801CT-ND	2.15	1.62	.97	ZR431N801TR-ND	375.90
1.24	1.24	15	30	2.5	ZR2431N802CT-ND	2.61	1.96	1.18	ZR2431N802TR-ND	456.75
1.24	1.24	15	30	1	ZR2431N801CT-ND	2.79	2.10	1.26	ZR2431N801TR-ND	488.25

Reference Voltage (V)	Output Voltage (V) Min.	Max.	Min. Operating Current (µA)	Tolerance (%)	Digi-Key Part No.	Price Each 1	10	100
Shunt Voltage Regulators — TO-92								
2.5	2.5	20	50	2	ZR431C-ND	1.08	.81	.49
2.5	2.5	20	50	1	ZR431C01-ND	1.38	1.04	.63
1.24	1.24	15	30	2.5	ZR2431C02-ND	1.08	.81	.49
Improved Stability Low Voltage Shunt Regulators — TO-92								
1.24	1.24	10	30	1	ZR431LC01-ND	1.38	1.04	.63
1.24	1.24	10	30	2.5	ZR431LC02L-ND	1.08	.81	.49

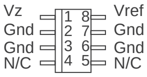
Shunt Voltage Regulators SC-70

SOT-23
Top View

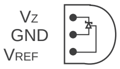




SO-8
Top View



TO-92
Bottom View



Voltage Regulators and References

ZETEX *Now QS9000 Accredited!*

Micropower Low Dropout Regulators

V Out (V)	Dropout (mV)@IL =50mA	Max. Load I(mA)	Shutdown I(µA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Micropower Low Dropout Regulators										
4.00	85	150	0.01	SOT23-5	ZXCL400E5TACT-ND	.66	.50	.30	ZXCL400E5TATR-ND	165.00/M
3.30	85	150	0.01	SOT23-5	ZXCL330E5CT-ND	.66	.50	.30	ZXCL330E5TR-ND	165.00/M
3.00	85	150	0.01	SOT23-5	ZXCL300E5CT-ND	.66	.50	.30	ZXCL300E5TR-ND	165.00/M
2.80	85	150	0.01	SOT23-5	ZXCL280E5CT-ND	.66	.50	.30	ZXCL280E5TR-ND	165.00/M
2.60	85	150	0.01	SOT23-5	ZXCL260E5CT-ND	.66	.50	.30	ZXCL260E5TR-ND	165.00/M
2.50	85	100	0.01	SOT23-5	ZXCL250E5TACT-ND	.39	.28	.22	ZXCL250E5TATR-ND	165.00/M
4.00	85	150	0.01	SC-70	ZXCL400H5TACT-ND	.39	.28	.22	ZXCL400H5TATR-ND	165.00/M
3.30	85	150	0.01	SC-70	ZXCL330H5CT-ND	.66	.50	.30	ZXCL330H5TR-ND	165.00/M
3.00	85	150	0.01	SC-70	ZXCL300H5CT-ND	.66	.50	.30	ZXCL300H5TR-ND	165.00/M
2.80	85	150	0.01	SC-70	ZXCL280H5CT-ND	.66	.50	.30	ZXCL280H5TR-ND	165.00/M
2.60	85	150	0.01	SC-70	ZXCL260H5CT-ND	.66	.50	.30	ZXCL260H5TR-ND	165.00/M
2.50	85	100	0.01	SC-70	ZXCL250H5TACT-ND	.39	.28	.22	ZXCL250H5TATR-ND	165.00/M

Ultra Low Dropout Regulators

V Out (V)	Dropout Voltage (mV)	I Max. (mA)	Shutdown Current (µA)	Max. Load Reg. (mV)	Max. Line Reg. (mV)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
Ultra Low Dropout Regulators — SM-8											
3.3	35	300	11	52	78	ZLDO330T8CT-ND	2.94	2.21	1.33	ZLDO330T8TR-ND	833.00
4.85	35	300	11	69	119	ZLDO485T8CT-ND	2.94	2.21	1.33	ZLDO485T8TR-ND	833.00
5	35	300	11	70	123	ZLDO500T8CT-ND	2.94	2.21	1.33	ZLDO500T8TR-ND	833.00

Miniature Voltage Regulators

Output Voltage (V)	Max. Output Current (mA)	Max. Quiescent Current (µA)	Typical Dropout Voltage (V)	Max. Line Reg. (mV)	Max. Load Reg. (mV)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Miniature Voltage Regulators — SOT-23											
2.5	50	40	1.7	15	30	ZMR250FCT-ND	1.47	1.11	.67	ZMR250FTR-ND	367.50/M
5.0	50	70	1.7	15	40	ZMR500FCT-ND	1.61	1.21	.73	ZMR500FTR-ND	402.75/M
Miniature Voltage Regulators — TO-92											
2.5	50	40	1.7	15	30	ZMR250C-ND*	1.41	1.06	.64	—	—
5.0	50	70	1.7	15	40	ZMR500C-ND*	1.41	1.06	.64	—	—

* Bulk Pricing

ZXCM Series - Very Low Power SOT-23 Supply Voltage Monitors

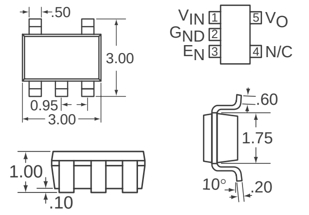
Typical Vcc (V)	Threshold Voltage (V)	Threshold Voltage Tolerance (%)	Minimum Reset Period (ms)	Reset Active	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5	4.04	1	140	Low	ZXCM209JFCT-ND	.71	.61	.56	ZXCM209JFTR-ND	303.00/M
5	4.63	1	140	Low	ZXCM209LFCT-ND	.71	.61	.56	ZXCM209LFTR-ND	303.00/M
5	4.38	1	140	Low	ZXCM209MFCT-ND	.71	.61	.56	ZXCM209MFTR-ND	303.00/M
3	2.63	1	140	Low	ZXCM209RFCT-ND	.71	.61	.56	—	—
3.3	2.93	1	140	Low	ZXCM209SFCT-ND	.71	.61	.56	ZXCM209SFTR-ND	303.00/M
3.3	3.08	1	140	Low	ZXCM209TFCT-ND	.71	.61	.56	ZXCM209TFTR-ND	303.00/M
5	4.63	1	140	High	ZXCM210LFCT-ND	.71	.61	.56	ZXCM210LFTR-ND	303.00/M

Micropower Voltage Reference

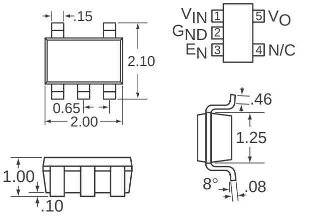
Reverse Breakdown Voltage (V)	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ohms)	Tol. (%)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Micropower Voltage Reference — SOT-23 Package											
2.50	20	20	90	1	2	ZR285F02CT-ND	.91	.65	.52	ZR285F02TR-ND	325.00/M
2.50	20	20	90	1	3	ZR285F03CT-ND	.77	.55	.44	ZR285F03TR-ND	275.00/M
2.50	50	20	90	2	1	ZR40401F25CT-ND	.88	.63	.50	ZR40401F25TR-ND	312.50/M
2.50	50	20	90	2	2	ZR40402F25CT-ND	.74	.53	.42	ZR40402F25TR-ND	262.50/M
4.096	50	20	90	2	1	ZR40401F41CT-ND	.88	.63	.50	ZR40401F41TR-ND	312.50/M
4.096	50	20	90	2	2	ZR40402F41CT-ND	.74	.53	.42	ZR40402F41TR-ND	262.50/M
5.00	50	20	90	1.5	1	ZR40401F50CT-ND	.88	.63	.50	ZR40401F50TR-ND	312.50/M
5.00	50	20	90	1.5	2	ZR40402F50CT-ND	.74	.53	.42	ZR40402F50TR-ND	262.50/M
2.50	25	60	30	0.4	0.5	ZR404005F25TACT-ND	.81	.58	.46	ZR404005F25TATR-ND	287.50/M
2.45	2000	120	50	0.5	1	ZRA245F01CT-ND	1.23	.88	.70	ZRA245F01TR-ND	437.50/M
2.45	2000	120	50	0.5	3	ZRA245F03CT-ND	.77	.55	.44	ZRA245F03TR-ND	275.00/M
1.22	30	5	90	0.5	0.5	ZXRE125CFCT-ND	1.43	1.03	.82	ZXRE125CFTR-ND	511.25/M
1.22	30	5	90	0.5	1	ZXRE125DFCT-ND	1.23	.88	.70	ZXRE125DFTR-ND	437.50/M
1.22	30	5	90	0.5	2	ZXRE125EFCT-ND	.91	.65	.52	ZXRE125EFTR-ND	325.00/M
1.22	30	5	90	0.5	3	ZXRE125FFCT-ND	.77	.55	.44	ZXRE125FFTR-ND	275.00/M
1.22	8	20	75	0.5	0.5	ZXRE1004CFCT-ND	2.57	1.84	1.47	ZXRE1004CFTR-ND	918.75/M
1.22	8	20	75	0.5	1	ZXRE1004DFCT-ND	2.24	1.60	1.28	ZXRE1004DFTR-ND	800.00/M
1.22	8	20	75	0.5	2	ZXRE1004EFCT-ND	1.93	1.38	1.10	ZXRE1004EFTR-ND	687.50/M
1.22	4	20	75	0.6	3	ZXRE1004FFCT-ND	1.80	1.29	1.03	ZXRE1004FFTR-ND	643.75/M
1.225	30	12	75	0.5	0.5	ZXRE4041CFCT-ND	1.43	1.02	.82	ZXRE4041CFTR-ND	510.00/M
1.225	30	12	75	0.5	1	ZXRE4041DFCT-ND	1.23	.88	.70	ZXRE4041DFTR-ND	437.50/M
1.225	30	12	75	0.5	2	ZXRE4041EFCT-ND	.91	.65	.52	ZXRE4041EFTR-ND	325.00/M
2.5	20	5	90	1	1	ZRC250F01CT-ND	1.23	.88	.70	ZRC250F01TR-ND	437.50/M
2.5	20	5	90	1	2	ZRC250F02CT-ND	.91	.65	.52	ZRC250F02TR-ND	325.00/M
2.5	20	5	90	1	3	ZRC250F03CT-ND	.77	.55	.44	ZRC250F03TR-ND	275.00/M
5	50	15	50	1.5	1	ZRB500F01CT-ND	1.23	.88	.70	ZRB500F01TR-ND	437.50/M
5	50	15	50	1.5	2	ZRB500F02CT-ND	.91	.65	.52	ZRB500F02TR-ND	325.00/M
5	50	15	50	1.5	3	ZRB500F03CT-ND	.77	.55	.44	ZRB500F03TR-ND	275.00/M
3.3	20	5	50	2	1	ZRC330F01CT-ND	1.23	.88	.70	ZRC330F01TR-ND	525.00/M
3.3	20	5	50	2	2	ZRC330F02CT-ND	.91	.65	.52	ZRC330F02TR-ND	325.00/M
3.3	20	5	50	2	3	ZRC330F03CT-ND	.77	.55	.44	ZRC330F03TR-ND	275.00/M

Micropower Low Dropout Regulators

SOT-23-5

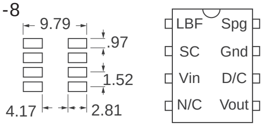


SC70



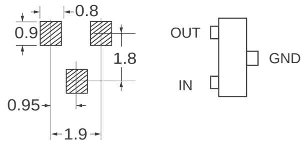
Ultra Low Dropout Regulators

SM-8

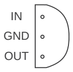


Miniature Voltage Regulators

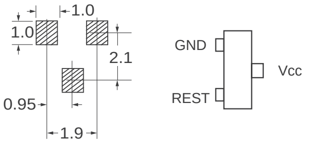
SOT-23
Pkg. Suffix F Top View



TO-92
Pkg. Suffix C
Bottom View

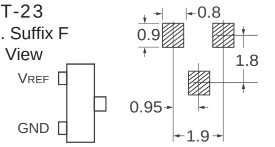


ZXCM Series - Very Low Power SOT-23 Supply Voltage Monitor



Micropower Voltage Reference

SOT-23
Pkg. Suffix F
Top View



(Continued)

Voltage Regulators and References *(Cont.)*

V_O (V)	ΔVref (mV) Typ.	ΔVref (mV) Max.	Iref (mA) Min.	Iref (mA) Max.	Slope Resistance Typ.	Slope Resistance Max.	Trim Range	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
Precision Micropower Voltage Reference, Trimmable — SOT-223													
2.5	2.7	8.8	0.15	75	0.85	2	5.0%	ZRT025GC1CT-ND	1.94	1.39	1.11	ZRT025GC1TR-ND	693.75
4.0	4.2	14.0	0.15	75	1.1	3	5.0%	ZRT040GC1CT-ND	1.94	1.39	1.11	ZRT040GC1TR-ND	693.75
5.0	5.4	17.2	0.15	60	1.25	2	5.0%	ZRT050GC1CT-ND	1.94	1.39	1.11	ZRT050GC1TR-ND	693.75
6.2	6.5	22.0	0.15	50	1.4	3	5.0%	ZRT062GC1CT-ND	1.94	1.39	1.11	ZRT062GC1TR-ND	693.75
9.8	10.8	34.4	0.15	30	1.8	4	2.5%	ZRT100GC1CT-ND	1.94	1.39	1.11	ZRT100GC1TR-ND	693.75

Reverse Breakdown Voltage (V)	Min. Current (μA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ohms)	Tolerance (%)	Digi-Key Part No.	Price Each 1	25	100	1,000
Micropower Voltage Reference, 500mW — TO-92 Package										
2.50	20	20	90	1	2	ZR285R02-ND	.91	.65	.39	.33
2.50	20	20	90	1	3	ZR285R03-ND	.77	.55	.33	.28
2.50	50	20	90	2	1	ZR40401R25-ND	1.23	.88	.53	.44
2.50	50	20	90	2	2	ZR40402R25-ND	.91	.65	.39	.33
4.096	50	20	90	2	1	ZR40401R41-ND	1.23	.88	.53	.44
4.096	50	20	90	2	2	ZR40402R41-ND	.91	.65	.39	.33
5.00	50	20	90	1.5	1	ZR40401R50-ND	1.23	.88	.53	.44
5.00	50	20	90	1.5	2	ZR40402R50-ND	.91	.65	.39	.33
2.45	2000	120	50	0.5	1	ZRA245A01-ND	1.23	.88	.53	.44
2.45	2000	120	50	0.5	3	ZRA245A03-ND	.77	.55	.33	.28

V_R (V)	I_R Min. (μA)	I_R Max. (mA)	TC ppm/°C	R_S Max. (Ω)	Tolerance	Digi-Key Part No.	Price Each 1	25	100	1,000
Micropower Voltage Reference, 330mW — TO-92 Package										
2.45/2.55	20	5	90	1.0	2%	ZRC250A02-ND	.91	.65	.39	.33
4.0	23	5	90	2.0	2%	ZRC400A02-ND	.91	.65	.39	.33
5.0	25	5	90	2.0	2%	ZRC500A02-ND	1.21	.87	.52	.44
5.0	50	15	50	1.5	1%	ZRB500A01-ND	1.23	.88	.53	.44
5.0	50	15	50	1.5	3%	ZRB500A03-ND	1.86	.72	.43	.36
3.3	20	5	50	2.0	1%	ZRC330A01-ND	1.23	.88	.53	.44
3.3	20	5	50	2.0	3%	ZRC330A03-ND	.77	.55	.33	.28
2.5	20	5	90	1.0	1%	ZRC250A01-ND	1.23	.88	.53	.44
2.5	20	5	90	1.0	3%	ZRC250A03-ND	.77	.55	.33	.28
2.5	20	5	90	1.0	1%	ZRC250R01-ND	1.23	.88	.53	.44
2.5	20	5	90	1.0	3%	ZRC250R03-ND	.77	.55	.33	.28
1.22	8	20	75	0.5	1%	ZXRE1004DR-ND	2.24	1.60	.96	.80
1.225	30	12	75	0.5	1%	ZXRE4041DR-ND	1.23	.88	.53	.44
1.22	30	5	90	0.5	1%	ZXRE125DR-ND	1.23	.88	.53	.44
1.22	30	5	90	0.5	2%	ZXRE125ER-ND	.91	.65	.39	.33
1.22	30	5	90	0.5	3%	ZXRE125FR-ND	.77	.55	.33	.28

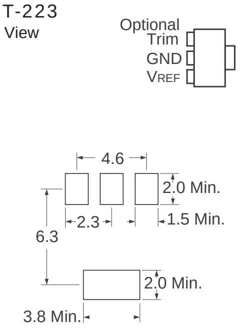
Reverse Breakdown Voltage (V)	Min. Current (μA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ohms)	Tol. (%)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 500
Micropower Voltage Reference — SO-8 Package											
2.45	2000	120	50	0.5	1	ZRA245N801CT-ND	1.56	1.12	.89	ZRA245N801TR-ND	295.93
2.45	2000	120	50	0.5	3	ZRA245N803CT-ND	1.25	.90	.72	ZRA245N803TR-ND	238.07
2.50	20	20	90	1.0	2	ZR285N802CT-ND	1.54	1.10	.88	ZR285N802TR-ND	292.60
2.50	20	20	90	1.0	3	ZR285N803CT-ND	1.44	1.03	.82	ZR285N803TR-ND	272.65
2.50	50	20	90	2.0	1	ZR40401N825CT-ND	1.56	1.12	.89	ZR40401N825TR-ND	295.93
2.50	50	20	90	2.0	2	ZR40402N825CT-ND	1.35	.97	.78	ZR40402N825TR-ND	257.36
3.3	20	5	50	2.0	1	ZRC330N801CT-ND	1.56	1.12	.89	ZRC330N801TR-ND	295.93
3.3	20	5	50	2.0	3	ZRC330N803CT-ND	1.25	.90	.72	ZRC330N803TR-ND	238.07
4.096	50	20	90	2.0	1	ZR40401N841CT-ND	1.56	1.12	.89	ZR40401N841TR-ND	295.93
4.096	50	20	90	2.0	2	ZR40402N841CT-ND	1.35	.97	.78	ZR40402N841TR-ND	257.36
5.0	50	20	90	1.5	1	ZR40401N850CT-ND	1.56	1.12	.89	ZR40401N850TR-ND	295.93
5.0	50	20	90	1.5	2	ZR40402N850CT-ND	1.35	.97	.78	ZR40402N850TR-ND	257.36
5.0	50	15	50	1.5	1	ZRB500N801CT-ND	1.56	1.12	.89	ZRB500N801TR-ND	295.93
5.0	50	15	50	1.5	3	ZRB500N803CT-ND	1.25	.90	.72	ZRB500N803TR-ND	238.07
2.5	20	5	90	1.0	1	ZRC250N801CT-ND	1.56	1.12	.89	ZRC250N801TR-ND	295.93
2.5	20	5	90	1.0	3	ZRC250N803CT-ND	1.25	.90	.72	ZRC250N803TR-ND	238.07
1.22	8	20	75	0.5	1	ZXRE1004DN8CT-ND	2.24	1.60	1.28	ZXRE1004DN8TR-ND	425.60
1.22	8	20	75	0.5	2	ZXRE1004EN8CT-ND	1.93	1.38	1.10	ZXRE1004EN8TR-ND	365.75
1.22	8	20	75	0.5	3	ZXRE1004FN8CT-ND	1.80	1.29	1.03	ZXRE1004FN8TR-ND	342.48
1.22	30	5	90	0.5	1	ZXRE125DN8CT-ND	1.45	1.04	.83	ZXRE125DN8TR-ND	275.98
1.22	30	5	90	0.5	2	ZXRE125EN8CT-ND	1.28	.92	.73	ZXRE125EN8TR-ND	242.73
1.22	30	5	90	0.5	3	ZXRE125FN8CT-ND	1.00	.72	.58	ZXRE125FN8TR-ND	190.19
1.225	30	12	75	0.5	1	ZXRE4041DN8CT-ND	1.45	1.04	.83	ZXRE4041DN8TR-ND	275.98
1.225	30	12	75	0.5	2	ZXRE4041EN8CT-ND	1.28	.92	.73	ZXRE4041EN8TR-ND	242.73
1.225	30	12	75	0.5	3	ZXRE4041FN8CT-ND	1.17	.84	.67	ZXRE4041FN8TR-ND	222.78

"H" Bridge

Polarity	V_{CBO} (V)	V_{CEO} (V)	I_C (DC) (A)	I_{CM} (A)	V_{CE} (sat) (V)	I_C/I_B (mA)	h_{FE} min	I_C (mA)	V_{CE} (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Pricing 1,000
'H' Bridge — SM-8														
NPN PNP	20 -20	20 -20	2.5 -2.5	6 -6	0.15 -0.2	1000/10 -1000/-20	200 150	2 -2	2 -2	ZHB6718CT-ND	3.70	2.78	ZHB6718TR-ND	1047.20
NPN PNP	40 -40	50 -50	2 -2	6 -6	0.5 -0.45	1000/5 -1000/-10	150 150	2 -2	2 -2	ZHB6790CT-ND	4.58	3.44	ZHB6790TR-ND	1297.10

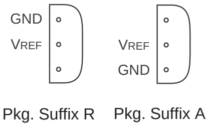
Precision Micropower Voltage Reference

SOT-223
Top View

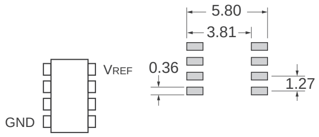


Micropower Voltage Reference

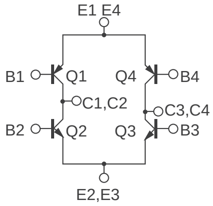
TO-92
3 Pin E-LINE
Bottom View

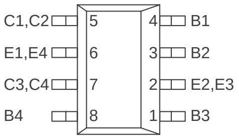


SO-8
Pkg. Suffix N8
Top View



H Bridge





ZETEX SEMICONDUCTORS

Brushless Fan Motor Controller

Supply Voltage Range (V)	Quiescent Current Max (mA)	Output Drive Current Max (mA)	PWM Freq. Range (kHz)	Output Flag Format	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
MSOP10										
4.5 - 18	3	80	1 - 50	Rotor lock and Speed pulse	ZXBM2001X10TACT-ND	1.47	1.26	1.16	ZXBM2001X10TATR-ND	714.00
4.5 - 18	3	80	1 - 50	Rotor lock only	ZXBM2002X10TACT-ND	1.33	1.14	1.05	ZXBM2002X10TATR-ND	646.00
4.5 - 18	3	80	1 - 50	Speed pulse only	ZXBM2003X10TACT-ND	1.33	1.14	1.05	ZXBM2003X10TATR-ND	646.00

Automotive and Household Security Siren Driver

Features: • Direct drive of darlington, mosfet and IGBT output stages • Suitable for automotive and static alarm systems

Operating Voltage (V)	Operating Current (mA)	Sleep Mode Current (µA)	Operating Temp. (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
4-18V	10	1	-40° – 125°	ZSD100D8-ND	2.25	1.69	1.02	—	—
4-18V	10	1	-40° – 125°	ZSD100N8CT-ND	2.70	2.03	1.22	ZSD100N8TR-ND	472.50

Precision Single Cell Timer

Supply Voltage Min./Max. (V)	Supply Current Min./Max. (µA)	Sink Current (mA)	T_{PD} (µS)	Maximum Frequency (KHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500
8 Dip										
0.9 / 6.0	74 / 200	100	2	330	ZSCT1555D8-ND†	3.09	2.32	1.40	—	—
8-SOIC										
0.9 / 6.0	74 / 200	100	2	330	ZSCT1555N8CT-ND	3.09	2.32	1.40	ZSCT1555N8TR-ND	540.75

† Tube Pricing

Current Mirror — SM-8 Package

This device offers excellent matching between transistor elements to allow a space and cost-effective solution for high side current sense applications. Uncommitted sensitivity is selected by external resistors.

Type	V_{CBO} (V)	V_{CEO} (V)	V_{EBO} (V)	I_{CM} (Amps)	I_C (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,000
NPN PNP	140 -140	120 -120	10 -10	4 -4	1 -1	ZDS1009CT-ND	4.41	3.31	1.99	ZDS1009TR-ND	1249.50

TRAC The Fastest Analog Solution

Field Programmable Analog Device

Field programmable Analog Device which is supported by powerful PC based Design and Simulation tools, plus a hardware emulator for fast hardware prototyping, **TRAC** provides real time and computational approach to signal processing, assuring design integration and secrecy. For more information check TRAC site @ http://www.zetex.com)

Description	Digi-Key Part No.	Pricing 1	25	100
TRAC020LH in QSOP36	TRAC020LHQ36-ND	16.08	377.69	1364.55
TRAC Development Kit	TRAC020LHUSA-ND	460.00	—	—

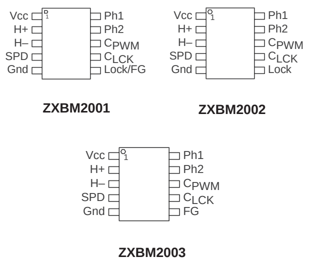
Variable Capacitance Diodes — SOT-23 and SOD-323 Packages

V_{BR} @ I_R = 10µA Min. (V)	I_R Max. µA/ V_R (V)	Cd @ V_R = 25V Max. (pf)	RD Max. Ω	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Silicon Planar Variable Capacitance Diodes — SOT-23 Package									
28	0.05/28	2.8	1.2	BBY31CT-ND	.54	4.05	27.00	BBY31TR-ND	162.00/M
28	0.05/28	6.0	0.6	BBY40CT-ND	.54	4.05	27.00	BBY40TR-ND	162.00/M

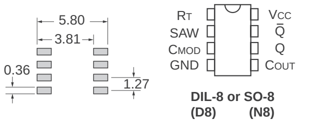
P_{TOT} (mW)	V_{BR} (V)	C2 Nominal Capacitance (pF)	Capacitance Ratio C_2/C_{20} at f = 1MHz Min.	Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Silicon Planar Variable Capacitance Diodes — SOT-23 Package										
330	25	8.2	4.3	5.8	ZC829ACT-ND	1.20	9.00	54.00	ZC829ATR-ND	300.00/M
330	25	10	4.5	6.0	ZC830ACT-ND	1.20	9.00	54.00	ZC830ATR-ND	300.00/M
330	25	15	4.5	6.0	ZC831ACT-ND	1.20	9.00	54.00	ZC831ATR-ND	300.00/M
330	25	22	5.0	6.5	ZC832ACT-ND	1.20	9.00	54.00	ZC832ATR-ND	300.00/M
330	25	33	5.0	6.5	ZC833ACT-ND	1.20	9.00	54.00	ZC833ATR-ND	300.00/M
330	25	47	5.0	6.5	ZC834ACT-ND	1.20	9.00	54.00	ZC834ATR-ND	300.00/M
330	25	68	5.0	6.5	ZC835ACT-ND	1.20	9.00	54.00	ZC835ATR-ND	300.00/M
330	25	100	5.0	6.5	ZC836ACT-ND	1.20	9.00	54.00	ZC836ATR-ND	300.00/M
Silicon Planar Variable Capacitance Diodes — SOD-323 Package										
300	25	8.2	4.3	5.8	ZMV829ACT-ND	1.09	8.15	48.87	ZMV829ATR-ND	271.50/M
300	25	10	4.5	6.0	ZMV830ACT-ND	1.09	8.15	48.87	ZMV830ATR-ND	271.50/M
300	25	15	4.5	6.0	ZMV831ACT-ND	1.09	8.15	48.87	ZMV831ATR-ND	271.50/M
300	25	22	5.0	6.5	ZMV832ACT-ND	1.09	8.15	48.87	ZMV832ATR-ND	271.50/M
300	25	33	5.0	6.5	ZMV833ACT-ND	1.09	8.15	48.87	ZMV833ATR-ND	271.50/M
300	25	47	5.0	6.5	ZMV834ACT-ND	1.09	8.15	48.87	ZMV834ATR-ND	271.50/M
300	25	68	5.0	6.5	ZMV835ACT-ND	1.09	8.15	48.87	ZMV835ATR-ND	271.50/M

ZETEX *Now QS9000 Accredited!*

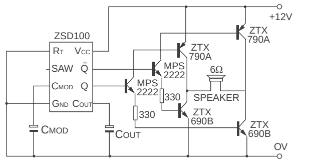
MSOP10



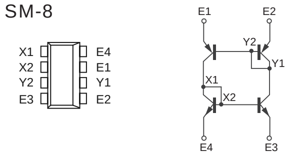
IC Siren Driver

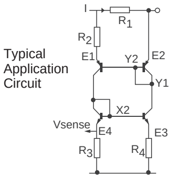


Sample Circuit



Current Mirror





$V_{sense} = IR_1 \frac{R_3}{R_2}$

For balance R3=R4

e.g.

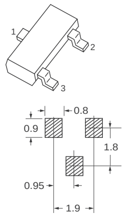
R2=100mΩ

R1=R3=R4=100Ω

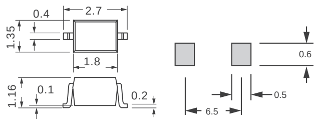
V_{sense} sensitivity = 100mV/A

SOT-23
Variable Capacitance Diodes

Single Diode



SOD-323
Variable Capacitance Diodes



(Continued)

P_{TOT} (mW)	V_{BR} (V)	min. C_d at V_R=1V	min/max C_d at V_R=2.5V	max. Cd at V_R=4V	Q min.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Silicon Planar Variable Capacitance Diodes - Hyper-hyperabrupt Variety — SOT-23 Package											
330	12	8.7	4.3 / 5.5	2.9	350	ZC930CT-ND	1.36	10.17	61.02	ZC930TR-ND	339.00/M
330	12	14.5	6.5 / 7.8	4	300	ZC931CT-ND	1.36	10.17	61.02	ZC931TR-ND	339.00/M
330	12	17	8.5 / 10.5	5.5	200	ZC932CT-ND	1.36	10.17	61.02	ZC932TR-ND	339.00/M
330	12	42	18 / 27	12	150	ZC933CT-ND	1.28	9.63	57.78	ZC933TR-ND	321.00/M
330	12	42	20.25 / 24.75	12	150	ZC933ACT-ND	1.36	10.17	61.02	ZC933ATR-ND	339.00/M
330	12	95	40 / 65	25	80	ZC934CT-ND	1.28	9.63	57.78	ZC934TR-ND	321.00/M
330	12	95	47.25 / 57.75	25	80	ZC934ACT-ND	1.36	10.17	61.02	ZC934ATR-ND	339.00/M
Silicon Planar Variable Capacitance Diodes - Hyper-hyperabrupt Variety — SOD-323 Package											
300	12	8.7	4.3 / 5.5	2.9	350	ZMV930CT-ND	1.28	9.63	57.78	ZMV930TR-ND	321.00/M
300	12	14.5	6.5 / 7.8	4	300	ZMV931CT-ND	1.28	9.63	57.78	ZMV931TR-ND	321.00/M
300	12	17	8.5 / 10.5	5.5	200	ZMV932CT-ND	1.28	9.63	57.78	ZMV932TR-ND	321.00/M
300	12	42	18 / 27	12	150	ZMV933CT-ND	1.09	8.15	48.87	ZMV933TR-ND	271.50/M
300	12	42	20.25 / 24.75	12	150	ZMV933ACT-ND	1.28	9.63	57.78	ZMV933ATR-ND	321.00/M
300	12	95	40 / 65	25	80	ZMV934CT-ND	1.09	8.15	48.87	ZMV934TR-ND	271.50/M
300	12	95	47.25 / 57.75	25	80	ZMV934ACT-ND	1.28	9.63	57.78	ZMV934ATR-ND	321.00/M

P_{TOT} (mW)	V_{BR} (V)	C2 Nominal Capacitance (pF)	Capacitance Ratio C_2/C_{20} at f=1MHz Min.	Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Silicon Planar Variable Capacitance Diodes - Dual, Common Cathode — SOT-23 Package										
330	25	33	5.0	6.5	ZDC833ACT-ND	1.46	10.98	65.88	ZDC833ATR-ND	366.00/M

P_{TOT} (mW)	V_{BR} (V)	I_R (µA)	C_d(pF) Min.	Max.	V/MHz	C_3/C_{25} Min.	Max.	Q Min	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Silicon Planar Variable Capacitance Diodes — SOT-23 Package														
330	30	0.05	1.8	2.8	25/1	4.0	6.0	250	FMMV105GCT-ND	.60	4.50	30.00	FMMV105GTR-ND	180.00/M
330	30	0.02	26	32	3/1	5.0	6.5	200	FMMV109CT-ND	.60	4.50	30.00	FMMV109TR-ND	180.00/M
330	30	0.1	20	25	3/1	4.5	—	200	FMMV3102CT-ND	.60	4.50	30.00	FMMV3102TR-ND	180.00/M

P_{TOT} (mW)	V_R (V)	I_F (mA)	C_d(pF) @ 4V Nom.	Max.	Tuning Ratio C_2/C_{30} @ f=1MHz Min.	Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Silicon Planar Variable Capacitance Diodes — SOT-23 Package												
330	30	20	6.8	7.5	2.5	3.3	FMMV2101CT-ND	.81	6.08	40.50	FMMV2101TR-ND	243.00/M
330	30	20	10	11	2.6	3.3	FMMV2103CT-ND	.81	6.08	40.50	FMMV2103TR-ND	243.00/M
330	30	20	12	13.2	2.6	3.3	FMMV2104CT-ND	.81	6.08	40.50	FMMV2104TR-ND	243.00/M
330	30	20	15	16.5	2.6	3.3	FMMV2105CT-ND	.81	6.08	40.50	FMMV2105TR-ND	243.00/M
330	30	20	22	24.2	2.7	3.3	FMMV2107CT-ND	.81	6.08	40.50	FMMV2107TR-ND	243.00/M
330	30	20	33	36.3	2.7	3.3	FMMV2109CT-ND	.81	6.08	40.50	FMMV2109TR-ND	243.00/M

Silicon 12V Hyperabrupt Varactor Diodes

P_{TOT} (mW)	V_{BR} (V)	min. C_d at V_R=1V	min/max C_d at V_R=2.5V	max. Cd at V_R=4V	Q min.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
SOD-523 Package											
330	12	13.5	6.5 / 7.8	4	300	ZV931V2TACT-ND	1.09	.82	.55	ZV931V2TATR-ND	325.80/M
330	12	17	8.5/10.5	5.5	200	ZV932V2TACT-ND	1.09	.82	.55	ZV932V2TATR-ND	325.80/M
330	12	42	18/27	12	150	ZV933V2TACT-ND	1.09	.82	.55	ZV933V2TATR-ND	325.80/M

Silicon 25V Hyperabrupt Varactor Diodes

P_{TOT} (mW)	V_{BR} (V)	C2 Nominal Capacitance (pF)	Capacitance Ratio C_2/C_{20} at f=1MHz Min.	Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
SOD-523 Package										
330	25	15	4.5	6.0	ZV831BV2TACT-ND	1.09	.82	.55	ZV831BV2TATR-ND	325.80/M
330	25	22	5.0	6.5	ZV832BV2TACT-ND	1.09	.82	.55	ZV832BV2TATR-ND	325.80/M
SOD-23 Package										
330	25	47	5.0	6.5	ZDC834ATACT-ND*	1.32	.99	.66	ZDC834ATATR-ND*	396.00/M

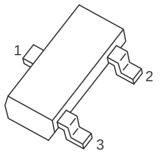
* Dual Package

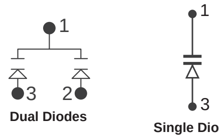
Silicon Low Voltage Hyperabrupt Varactor Diodes

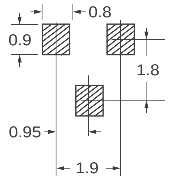
Capacitance pF V_R=0.5V at f=1MHz	Capacitance pF V_R=0.5V at f=1MHz Min.	Max.	Capacitance Ratio $C_{0.5}/C_{2.5}$ at f=1MHz	Minimum Q V_R=0.5V f=50MHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
SOD-523 Package										
9.5	6.3	7.8	2.0	500	ZV950V2TACT-ND	1.09	.82	.55	ZV950V2TATR-ND	325.80/M
19	12.7	15.7	2.0	350	ZV952V2TACT-ND	1.09	.82	.55	ZV952V2TATR-ND	325.80/M
45	30	37	2.0	250	ZMDC953TACT-ND	1.46	1.10	.74	ZMDC953TATR-ND	439.20/M

ZETEX SEMICONDUCTORS *Now QS9000 Accredited!*

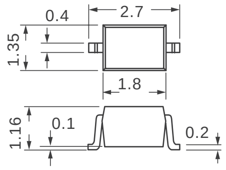
SOT-23
Variable Capacitance Diodes

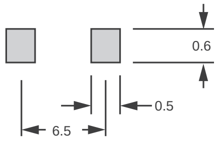




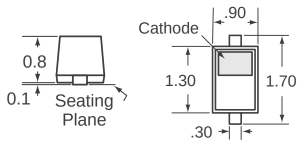


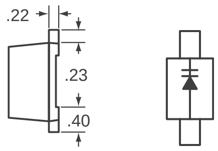
SOD-323
Variable Capacitance Diodes





SOD-523
Hyperabrupt Varactor Diodes





Panasonic® Transistor Arrays

Composite Transistors (Built-in Resistor)

Fig.	Package	Basic Type		Resistor Value		Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel	
		PNP	NPN	RB (K ohm)	RBE (K ohm)	Part No.	1	10	100	Part No	Size	Pricing
1	Mini 5Pin	UN211F x2	—	4.7	10	XN0111F00LCT-ND	.41	.35	.28	XN0111F00LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN211H x2	—	2	10	XN0111H00LCT-ND	.41	.35	.28	XN0111H00LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN1110 x2	—	47	open	XN0111000LCT-ND	.41	.35	.28	XN0111000LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN2111 x2	—	10	10	XN0111100LCT-ND	.41	.35	.28	XN0111100LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN2112 x2	—	22	22	XN0111200LCT-ND	.41	.35	.28	XN0111200LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN2113 x2	—	47	47	XN0111300LCT-ND	.41	.35	.28	XN0111300LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN2114 x2	—	10	47	XN0111400LCT-ND	.41	.35	.28	XN0111400LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN2115 x2	—	10	open	XN0111500LCT-ND	.41	.35	.28	XN0111500LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN2116 x2	—	4.7	open	XN0111600LCT-ND	.41	.35	.28	XN0111600LTR-ND	3,000	109.00/M
1	Mini 5Pin	UN2119 x2	—	1	10	XN0111900LCT-ND	.41	.35	.28	XN0111900LTR-ND	3,000	109.00/M
2	Mini 5Pin	—	UN2210 x2	47	open	XN0121000LCT-ND	.41	.35	.28	XN0121000LTR-ND	3,000	109.00/M
2	Mini 5Pin	—	UN2211 x2	10	10	XN0121100LCT-ND	.41	.35	.28	XN0121100LTR-ND	3,000	109.00/M
2	Mini 5Pin	—	UN2212 x2	22	22	XN0121200LCT-ND	.41	.35	.28	XN0121200LTR-ND	3,000	109.00/M
2	Mini 5Pin	—	UN2213 x2	47	47	XN0121300LCT-ND	.41	.35	.28	XN0121300LTR-ND	3,000	109.00/M
2	Mini 5Pin	—	UN2214 x2	10	47	XN0121400LCT-ND	.41	.35	.28	XN0121400LTR-ND	3,000	109.00/M
2	Mini 5Pin	—	UN2215 x2	10	open	XN0121500LCT-ND	.41	.35	.28	XN0121500LTR-ND	3,000	109.00/M
2	Mini 5Pin	—	UN2216 x2	4.7	open	XN0121600LCT-ND	.41	.35	.28	XN0121600LTR-ND	3,000	109.00/M
3	Mini 5Pin	—	UN2211 x2	10	10	XN0221100LCT-ND	.41	.35	.28	XN0221100LTR-ND	3,000	109.00/M
4	Mini 6Pin	UN2111 x2	—	10	10	XN0411100LCT-ND	.41	.35	.28	XN0411100LTR-ND	3,000	109.00/M
4	Mini 6Pin	UN2112 x2	—	22	22	XN0411200LCT-ND	.41	.35	.28	XN0411200LTR-ND	3,000	109.00/M
4	Mini 6Pin	UN2113 x2	—	47	47	XN0411300LCT-ND	.41	.35	.28	XN0411300LTR-ND	3,000	109.00/M
4	Mini 6Pin	UN2114 x2	—	10	47	XN0411400LCT-ND	.41	.35	.28	XN0411400LTR-ND	3,000	109.00/M
4	Mini 6Pin	UN2115 x2	—	10	open	XN0411500LCT-ND	.41	.35	.28	XN0411500LTR-ND	3,000	109.00/M
4	Mini 6Pin	UN2116 x2	—	4.7	open	XN0411600LCT-ND	.41	.35	.28	XN0411600LTR-ND	3,000	109.00/M
5	Mini 6Pin	—	UN1210 x2	47	open	XN0421000LCT-ND	.41	.35	.28	XN0421000LTR-ND	3,000	109.00/M
5	Mini 6Pin	—	UN2211 x2	10	10	XN0421100LCT-ND	.41	.35	.28	XN0421100LTR-ND	3,000	109.00/M
5	Mini 6Pin	—	UN2212 x2	22	22	XN0421200LCT-ND	.41	.35	.28	XN0421200LTR-ND	3,000	109.00/M
5	Mini 6Pin	—	UN2213 x2	47	47	XN0421300LCT-ND	.41	.35	.28	XN0421300LTR-ND	3,000	109.00/M
5	Mini 6Pin	—	UN2214 x2	10	47	XN0421400LCT-ND	.41	.35	.28	XN0421400LTR-ND	3,000	109.00/M
5	Mini 6Pin	—	UN2215 x2	10	open	XN0421500LCT-ND	.41	.35	.28	XN0421500LTR-ND	3,000	109.00/M
5	Mini 6Pin	—	UN2216 x2	4.7	open	XN0421600LCT-ND	.41	.35	.28	XN0421600LTR-ND	3,000	109.00/M
6	Mini 6Pin	UN2111 x1	UN2211 x1	10/10	10/10	XN0431100LCT-ND	.41	.35	.28	XN0431100LTR-ND	3,000	109.00/M
6	Mini 6Pin	UN2112 x1	UN2212 x1	22/22	22/22	XN0431200LCT-ND	.41	.35	.28	XN0431200LTR-ND	3,000	109.00/M
6	Mini 6Pin	UN2114 x1	UN2114 x1	10/10	47/47	XN0431400LCT-ND	.41	.35	.28	XN0431400LTR-ND	3,000	109.00/M
6	Mini 6Pin	UN2115 x1	UN2115 x1	10/10	open/open	XN0431500LCT-ND	.41	.35	.28	XN0431500LTR-ND	3,000	109.00/M
6	Mini 6Pin	UN2116 x1	UN2116 x1	4.7/4.7	open/open	XN0431600LCT-ND	.41	.35	.28	XN0431600LTR-ND	3,000	109.00/M
6	Mini 6Pin	UN2122 x1	UN2213 x1	4.7/4.7	4.7/4.7	XN0438100LCT-ND	.41	.35	.28	XN0438100LTR-ND	3,000	109.00/M
7	Mini 6Pin	—	UN1213 x2	47	47	XN0621300LCT-ND	.41	.35	.28	XN0621300LTR-ND	3,000	109.00/M
7	Mini 6Pin	—	UN1215 x2	10	open	XN0621500LCT-ND	.41	.35	.28	XN0621500LTR-ND	3,000	109.00/M
7	Mini 6Pin	—	UN1216 x2	4.7	open	XN0621600LCT-ND	.41	.35	.28	XN0621600LTR-ND	3,000	109.00/M
1	S Mini 5Pin	UN111F x2	—	4.7	10	XP0111F00LCT-ND	.48	.40	.32	XP0111F00LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN111H x2	—	2.2	10	XP0111H00LCT-ND	.48	.40	.32	XP0111H00LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1111 x2	—	10	10	XP0111100LCT-ND	.48	.40	.32	XP0111100LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1112 x2	—	22	22	XP0111200LCT-ND	.48	.40	.32	XP0111200LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1113 x2	—	47	47	XP0111300LCT-ND	.48	.40	.32	XP0111300LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1114 x2	—	10	47	XP0111400LCT-ND	.48	.40	.32	XP0111400LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1115 x2	—	10	open	XP0111500LCT-ND	.48	.40	.32	XP0111500LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1116 x2	—	4.7	open	XP0111600LCT-ND	.48	.40	.32	XP0111600LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1119 x2	—	1	10	XP0111900LCT-ND	.48	.40	.32	XP0111900LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1210 x2	47	open	XP0121000LCT-ND	.48	.40	.32	XP0121000LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1211 x2	10	10	XP0121100LCT-ND	.48	.40	.32	XP0121100LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1212 x2	22	22	XP0121200LCT-ND	.48	.40	.32	XP0121200LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1213 x2	47	47	XP0121300LCT-ND	.48	.40	.32	XP0121300LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1214 x2	10	47	XP0121400LCT-ND	.48	.40	.32	XP0121400LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1215 x2	10	open	XP0121500LCT-ND	.48	.40	.32	XP0121500LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1216 x2	4.7	open	XP0121600LCT-ND	.48	.40	.32	XP0121600LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1217 x2	22	open	XP0121700LCT-ND	.48	.40	.32	XP0121700LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1111 x2	—	10	10	XP0411100LCT-ND	.48	.40	.32	XP0411100LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1112 x2	—	22	22	XP0411200LCT-ND	.48	.40	.32	XP0411200LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1113 x2	—	47	47	XP0411300LCT-ND	.48	.40	.32	XP0411300LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1114 x2	—	10	47	XP0411400LCT-ND	.48	.40	.32	XP0411400LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1115 x2	—	10	open	XP0411500LCT-ND	.48	.40	.32	XP0411500LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1116 x2	—	4.7	open	XP0411600LCT-ND	.48	.40	.32	XP0411600LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1210 x2	—	47	open	XP0421000LCT-ND	.48	.40	.32	XP0421000LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1211 x2	—	10	10	XP0421100LCT-ND	.48	.40	.32	XP0421100LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1212 x2	—	22	22	XP0421200LCT-ND	.48	.40	.32	XP0421200LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1213 x2	—	47	47	XP0421300LCT-ND	.48	.40	.32	XP0421300LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1214 x2	—	10	47	XP0421400LCT-ND	.48	.40	.32	XP0421400LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1215 x2	—	10	open	XP0421500LCT-ND	.48	.40	.32	XP0421500LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1216 x2	—	4.7	open	XP0421600LCT-ND	.48	.40	.32	XP0421600LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1211 x1	UN1111 x1	10	10	XP0431100LCT-ND	.48	.40	.32	XP0431100LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1212 x1	UN1112 x1	22	22	XP0431200LCT-ND	.48	.40	.32	XP0431200LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN2214 x1	UN2114 x1	10	47	XP0431400LCT-ND	.48	.40	.32	XP0431400LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1215 x1	UN1115 x1	10	open	XP0431500LCT-ND	.48	.40	.32	XP0431500LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1216 x1	UN1116 x1	4.7	open	XP0431600LCT-ND	.48	.40	.32	XP0431600LTR-ND	3,000	127.00/M
7	S Mini 6Pin	UN1115 x2	—	10	open	XP0611500LCT-ND	.48	.40	.32	XP0611500LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1211 x2	10	10	XP0621100LCT-ND	.48	.40	.32	XP0621100LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1212 x2	22	22	XP0621200LCT-ND	.48	.40	.32	XP0621200LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1213 x2	47	47	XP0621300LCT-ND	.48	.40	.32	XP0621300LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1214 x2	10	47	XP0621400LCT-ND	.48	.40	.32	XP0621400LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1215 x2	10	open	XP0621500LCT-ND	.48	.40	.32	XP0621500LTR-ND	3,000	127.00/M
9	SS Mini 6Pin	UN2111 x2	—	10	10	UP0411100LCT-ND	.61	.46	.35	UP0411100LTR-ND	8,000	194.00/M
10	SS Mini 6Pin	—	UN2213 x2	47	47	UP0421300LCT-ND	.61	.46	.35	UP0421300LTR-ND	8,000	194.00/M
10	SS Mini 6Pin	—	NPNX2	47	open	UP0421000LCT-ND *NEW!*	.59	.45	.34	UP0421000LTR-ND *NEW!*	8,000	188.00/M
10	SS Mini 6Pin	—	NPNX2	4.7	open	UP0421600LCT-ND *NEW!*	.59	.45	.34	UP0421600LTR-ND *NEW!*	8,000	188.00/M
11	SS Mini 6Pin	UN2116 x1	UN2216 x1	4.7	open	UP0431600LCT-ND	.61	.46	.35	UP0431600LTR-ND	8,000	194.00/M
12	SSS Mini 6Pin	UNR31A3	—	47	47	NP061A300ACT-ND	.75	.63	.51	NP061A300ATR-ND	10,000	313.00/M
12	SSS Mini 6Pin	UNR31A5	—	10	10	NP061A500ACT-ND	.75	.63	.51	NP061A500ATR-ND	10,000	313.00/M
13	SS Mini 6Pin	UN2113	UN2213	47	47	UP0431300LCT-ND	.59	.45	.34	UP0431300LTR-ND	8,000	187.00/M

Dim. in mm

Fig. 1

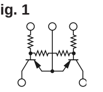


Fig. 2

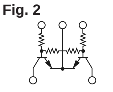


Fig. 3

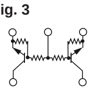


Fig. 4

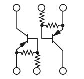


Fig. 5

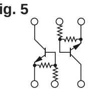


Fig. 6

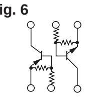


Fig. 7

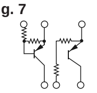


Fig. 8

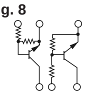


Fig. 9

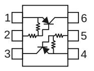


Fig. 10

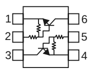


Fig. 11

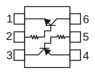


Fig. 12

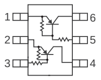
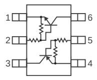
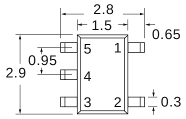


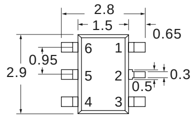
Fig. 13



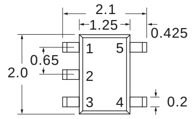
Mini Type (5-pin) / EIAJ: SC-74A



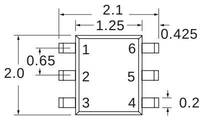
Mini Type (6-pin) / EIAJ: SC-74



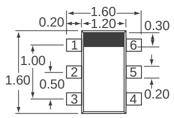
S-Mini Type (5-pin) / EIAJ: SC-88A



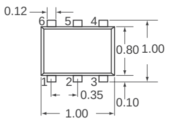
S-Mini Type (6-pin) / EIAJ: SC-88



SS-Mini Type (6-pin)



SSS-Mini Type (6-pin)



Transistor Arrays Composite Transistors

Dim. in mm

Fig. 1

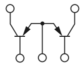


Fig. 2

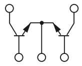


Fig. 3

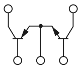


Fig. 4

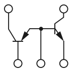


Fig. 5

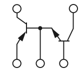


Fig. 6

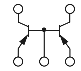


Fig. 7

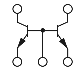


Fig. 8

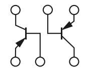


Fig. 9

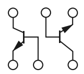


Fig. 10

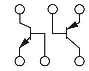


Fig. 11

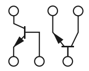


Fig. 12

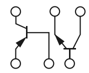


Fig. 13

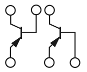


Fig. 14

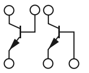


Fig. 15

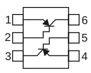


Fig. 16

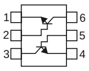
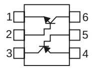
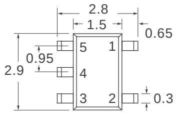


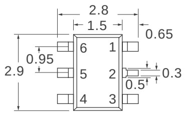
Fig. 17



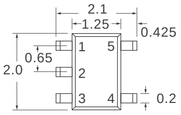
Mini Type (5-pin)
EIAJ: SC-74A



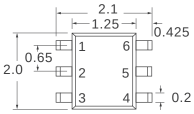
Mini Type (6-pin)
EIAJ: SC-74



S-Mini Type (5-pin)
EIAJ: SC-88A



S-Mini Type (6-pin)
EIAJ: SC-88



SS-Mini Type (6-pin)

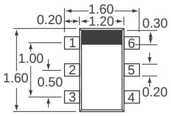
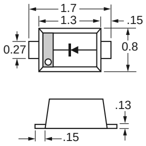


Fig.	Basic Type PNP	NPN	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing
Mini Type 5-Pin								
1	2SB709A x2	—	XN0140100LCT-ND	.41	.34	.23	XN0140100LTR-ND	321.00/3,000
1	2SB1693 x2	—	XN0145700LCT-ND	.60	.45	.34	XN0145700LTR-ND	585.00/3,000
2	—	2SD601A x2	XN0150100LCT-ND	.41	.34	.23	XN0150100LTR-ND	321.00/3,000
2	—	2SD1938 x2	XN0150400LCT-ND	.59	.45	.34	XN0150400LTR-ND	576.00/3,000
2	—	2SC4561 x2	XN0150900LCT-ND	.54	.41	.31	XN0150900LTR-ND	528.00/3,000
2	—	2SC3130 x2	XN0153100LCT-ND	.89	.67	.51	XN0153100LTR-ND	870.00/3,000
2	—	2SD2623 x2	XN0155800LCT-ND	.60	.45	.34	XN0155800LTR-ND	585.00/3,000
3	2SB709A x1	2SD601A x1	XN0160100LCT-ND	.41	.34	.23	XN0160100LTR-ND	321.00/3,000
6	2SB709A x2	—	XN0240100LCT-ND	.41	.34	.23	XN0240100LTR-ND	321.00/3,000
7	—	2SD601A x2	XN0250100LCT-ND	.41	.34	.23	XN0250100LTR-ND	321.00/3,000
7	—	2SC3130 x2	XN0253100LCT-ND	.66	.50	.37	XN0253100LTR-ND	642.00/3,000
4	2SB709A x1	2SD601A x1	XN0B30100LCT-ND	.41	.35	.28	XN0B30100LTR-ND	327.00/3,000
5	2SB709A x1	2SD601A x1	XN0C30100LCT-ND	.41	.35	.28	XN0C30100LTR-ND	327.00/3,000
Mini Type 6-Pin								
8	2SB709A x2	—	XN0440100LCT-ND	.41	.34	.23	XN0440100LTR-ND	321.00/3,000
8	2SB710A x2	—	XN0440200LCT-ND	.56	.42	.32	XN0440200LTR-ND	543.00/3,000
8	2SB970 x2	—	XN0440400LCT-ND	.64	.49	.37	XN0440400LTR-ND	627.00/3,000
9	—	2SD601A x2	XN0450100LCT-ND	.41	.34	.23	XN0450100LTR-ND	321.00/3,000
9	—	2SD602A x2	XN0450200LCT-ND	.57	.46	.35	XN0450200LTR-ND	456.00/3,000
9	—	2SD1328 x2	XN0450400LCT-ND	.60	.45	.34	XN0450400LTR-ND	582.00/3,000
10	2SB709A x1	2SD601A x1	XN0460100LCT-ND	.41	.34	.23	XN0460100LTR-ND	321.00/3,000
10	2SB970 x1	2SD1328 x1	XN0460400LCT-ND	.81	.61	.46	XN0460400LTR-ND	789.00/3,000
10	2SB970 x1	2SD601A x1	XN0460800LCT-ND	.49	.37	.28	XN0460800LTR-ND	477.00/3,000
10	2SB709A x1	2SD1328 x1	XN0460900LCT-ND	.58	.44	.33	XN0460900LTR-ND	567.00/3,000
11	—	2SD601A x2	XN0550100LCT-ND	.41	.34	.23	XN0550100LTR-ND	321.00/3,000
11	—	2SC3130 x2	XN0553100LCT-ND	.66	.50	.37	XN0553100LTR-ND	642.00/3,000
11	—	2SD1149 x2	XN0555300LCT-ND	.79	.60	.45	XN0555300LTR-ND	774.00/3,000

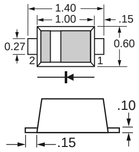
Fig.	Basic Type PNP	NPN	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing
Mini Type 6-Pin								
12	2SB709A x1	2SD601A x1	XN0560100LCT-ND	.41	.34	.23	XN0560100LTR-ND	321.00/3,000
13	2SB709A x2	—	XN0640100LCT-ND	.41	.34	.23	XN0640100LTR-ND	321.00/3,000
14	—	2SD601A x2	XN0650100LCT-ND	.41	.34	.23	XN0650100LTR-ND	321.00/3,000
14	—	2SC2404 x2	XN0653400LCT-ND	.81	.61	.46	XN0653400LTR-ND	789.00/3,000
14	—	2SC3110 x2	XN0653700LCT-ND	.66	.50	.37	XN0653700LTR-ND	642.00/3,000
14	—	2SC3904 x2	XN0654300LCT-ND	.95	.79	.64	XN0654300LTR-ND	1233.00/3,000
S-Mini Type 5-Pin								
1	2SB709A x2	—	XP0140100LCT-ND	.42	.34	.24	XP0140100LTR-ND	330.00/3,000
2	—	2SD601A x2	XP0150100LCT-ND	.42	.34	.24	XP0150100LTR-ND	330.00/3,000
6	2SB709A x2	—	XP0240100LCT-ND	.42	.34	.24	XP0240100LTR-ND	330.00/3,000
7	—	2SD601A x2	XP0250100LCT-ND	.42	.34	.24	XP0250100LTR-ND	330.00/3,000
4	2SB709A x1	2SD601A x1	XP0B30100LCT-ND	.42	.35	.28	XP0B30100LTR-ND	333.00/3,000
5	2SB709A x1	2SD601A x1	XP0C30100LCT-ND	.42	.35	.28	XP0C30100LTR-ND	333.00/3,000
S-Mini Type 6-Pin								
8	2SB709A x2	—	XP0440100LCT-ND	.42	.34	.24	XP0440100LTR-ND	330.00/3,000
10	2SB709A x1	2SD601A x1	XP0460100LCT-ND	.42	.34	.24	XP0460100LTR-ND	330.00/3,000
10	2SA1738 x1	2SC3757 x1	XP0465400LCT-ND	.71	.54	.40	XP0465400LTR-ND	690.00/3,000
11	—	2SC4782 x2	XP0555500LCT-ND	.63	.48	.36	XP0555500LTR-ND	618.00/3,000
12	2SB709A x1	2SD601A x1	XP0560100LCT-ND	.42	.34	.24	XP0560100LTR-ND	330.00/3,000
13	2SB709A x2	—	XP0640100LCT-ND	.42	.34	.24	XP0640100LTR-ND	330.00/3,000
14	—	2SD601A x2	XP0650100LCT-ND	.42	.34	.24	XP0650100LTR-ND	330.00/3,000
SS-Mini Type 6-Pin								
15	2SB709A x2	—	UP0440100LCT-ND	.61	.46	.35	UP0440100LTR-ND	1552.00/8,000
16	—	2SD601A x2	UP0450100LCT-ND	.61	.46	.35	UP0450100LTR-ND	1552.00/8,000
17	2SB709A x1	2SD601A x1	UP0460100LCT-ND	.61	.46	.35	UP0460100LTR-ND	1552.00/8,000

Variable Capacitance Diodes - Silicon Epitaxial Planar Type

SS-Mini (2-pin)



SSS-Mini (2-pin)



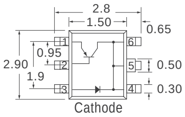
Package	Application	VR (V)	IR @ 10nA @VR	CD @ 1Mhz @VR	CD @ 1Mhz pF(max)	CD @ 1Mhz @VR	CD @ 1Mhz pF(max)	RD @ 470Mhz Ω (max)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
SS-Mini 2P	Band Switching	35	33*	6	1.2	—	—	.85*	MA2S07700LCT-ND	.40	.34	.27	MA2S07700LTR-ND	3,000	107.00/M
SS-Mini 2P	VCO	30	28	1	29.8	4	8.3	1.0*	MA2S30400LCT-ND	.46	.37	.28	MA2S30400LTR-ND	3,000	122.00/M
SS-Mini 2P	VCO/UHF	12	12	1	20	4	12.4	.22	MA2S33100LCT-ND	.43	.35	.26	MA2S33100LTR-ND	3,000	115.00/M
SS-Mini 2P	CATV Tuner	34	30	2	34.3	10	8.32	.54	MA2S35700LCT-ND	.43	.35	.26	MA2S35700LTR-ND	3,000	115.00/M
SS-Mini 2P	UHF/VHF Tuner	32	30	2	15.47	10	6.13	.45	MA2S37200LCT-ND	.46	.39	.31	MA2S37200LTR-ND	3,000	123.00/M
SS-Mini 2P	CATV Tuner	34	30	2	50.79	10	13.08	.90	MA2S37400LCT-ND	.48	.39	.29	MA2S37400LTR-ND	3,000	128.00/M
SS-Mini 2P	VCO/TCXO	12	12	2	3.4	10	1.5	.60	MA2S37700LCT-ND	.44	.36	.27	MA2S37700LTR-ND	3,000	118.00/M
SSS-Mini 2P	VCO	6	6	1	17	3	7	1.0	MA27V0100LCT-ND	.50	.41	.31	MA27V0100LTR-ND	10,000	126.00/M
SSS-Mini 2P	VCO	6	5	1	20	4	9	.30	MA27V0200LCT-ND	.53	.43	.33	MA27V0200LTR-ND	10,000	134.00/M
SSS-Mini 2P	VCO	6	5	1	5.8	4	2.58	.30	MA27V0300LCT-ND	.46	.37	.28	MA27V0300LTR-ND	10,000	115.00/M
SSS-Mini 2P	VCO	6	5	1	11.1	3	6.4	.35	MA27V0400LCT-ND	.46	.37	.28	MA27V0400LTR-ND	10,000	115.00/M
SSS-Mini 2P	VCO	10	10	1	20.5	4	4.1	.65	MA27V0500LCT-ND	.51	.41	.31	MA27V0500LTR-ND	10,000	128.00/M
SSS-Mini 2P	VCO	6	5	1	3.12	3	1.62	.35	MA27V0700LCT-ND	.48	.38	.29	MA27V0700LTR-ND	10,000	119.00/M
SSS-Mini 2P	VCO	6	5	1	16.4	3	9.2	.35	MA27V0900LCT-ND	.54	.44	.33	MA27V0900LTR-ND	10,000	135.00/M
SSS-Mini 2P	VCO	8	5	1	3.01	4	1.34	.35	MA27V1100LCT-ND	.54	.44	.33	MA27V1100LTR-ND	10,000	135.00/M
SSS-Mini 2P	VCO	8	5	1	3.9	4	2.14	.35	MA27V1200LCT-ND	.56	.45	.34	MA27V1200LTR-ND	10,000	139.00/M
SSS-Mini 2P	VCO	12	10	1	12.29	3	5.81	.40	MA27V1300LCT-ND	.56	.45	.34	MA27V1300LTR-ND	10,000	139.00/M
SSS-Mini 2P	VCO	60	5	0.5	7.91	2.5	3.23	.45	MA27V1500LCT-ND	.58	.47	.35	MA27V1500LTR-ND	10,000	144.00/M
SSS-Mini 2P	VCO/UHF	6	6	1	16	3	8.9	.30	MA2737600LCT-ND	.46	.37	.28	MA2737600LTR-ND	10,000	115.00/M

*100Mhz

PNP Transistors with Diode Protection

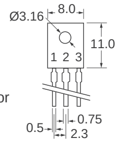
Application	Package	V_{CEO} (V)	IC	Diode V_F	Diode I_F	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
PNP Type											
DC-DC Converter	Mini 6P	15	2.5A	.45V	1.0A	XN09D5700LCT-ND	.95	.72	.54	XN09D5700LTR-ND	309.00/M
			2.5A	.45V	700mA	XN09D5800LCT-ND	.93	.70	.53	XN09D5800LTR-ND	303.00/M
			1.5A	.45V	700mA	XN09D6100LCT-ND	.91	.68	.52	XN09D6100LTR-ND	295.00/M

Mini Type (6-pin)



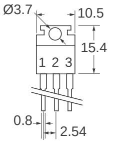
1. Emitter
2. Base
3. Anode
4. Collector
5. Collector
6. Collector

TO-126



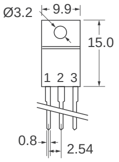
1. Emitter
2. Collector
3. Base

TO-220
EIAJ: SC-46



1. Base
2. Collector
3. Emitter

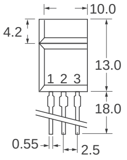
TO-220D



Transistors
1. Base
2. Collector
3. Emitter

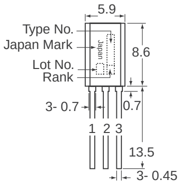
Mosfets
1. Gate
2. Drain
3. Source

MT-4



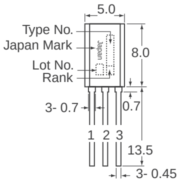
1. Base
2. Collector
3. Emitter

TO-92L



1. Emitter
2. Collector
3. Base

TO-92NL

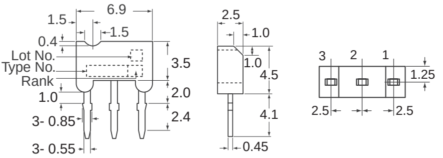


1. Emitter
2. Collector
3. Base

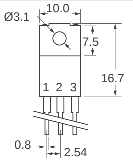
M-Type

Transistors
1. Base
2. Collector
3. Emitter

Mosfets
1. Gate
2. Drain
3. Source

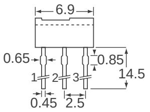


TO-220F
EIAJ:SC-67



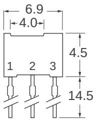
1. Base
2. Collector
3. Emitter

MT1-Type



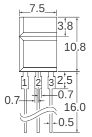
1. Emitter
2. Collector
3. Base

MT2-Type



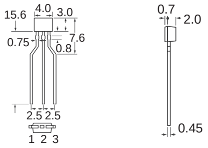
1. Emitter
2. Collector
3. Base

MT3-Type



1. Emitter
2. Collector
3. Base

NEW S Type



1. Emitter
2. Collector
3. Base

Transistors

Application	Package	VCEO (V)	IC	hFE Min.	hFE Max.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape & Box Size	Tape & Box Pricing
PNP Type												
AF Output Driver	TO-126	120	0.5A	90	220	2SA0794A-ND	1.35	1.13	.91	—	—	—
AF Output Driver	TO-126	35	1A	85	340	2SA0885-ND	.77	.65	.52	—	—	—
AF Power Amp	TO-126	40	1.5A	80	220	2SA0886-ND	.77	.65	.52	—	—	—
AF Power Amp	TO-126	18	1A	130	280	2SA0900-ND	1.13	.94	.76	—	—	—
AF Power Pre-Amp	TO-126	150	50mA	130	330	2SA0914-ND	1.35	1.13	.91	—	—	—
AF Power Amp	TO-126	40	1.5A	80	220	2SA0963-ND	1.47	1.23	.99	—	—	—
AF Power Amp	TO-126	60	2A	80	220	2SA1096A-ND	1.35	1.13	.91	—	—	—
AF Power Amp	TO-126	120	0.5A	—	—	2SA1110-ND	.89	.75	.60	—	—	—
AF Output Driver	TO-126	100	.5A	130	220	2SA07940R-ND	.95	.71	.54	—	—	—
AF Output Driver	TO-126	50	2A	80	160	2SA10960Q-ND	1.19	1.00	.80	—	—	—
AF Output Driver	TO-126	50	2A	120	220	2SA10960R-ND	1.19	1.00	.80	—	—	—
AF Amp	TO-126	400	0.1A	30	—	2SB1011-ND	.81	.68	.55	—	—	—
AF Driver	TO-220F	180	1A	90	330	2SA1535A-ND	1.16	.97	.78	—	—	—
Vertical Deflection	TO-220F	180	2A	60	240	2SB0940A-ND	.97	.81	.65	—	—	—
Power Switching	TO-220F	80	3A	—	—	2SB0943-ND	1.45	1.17	.88	—	—	—
Power Amp/Switching	TO-220F	80	2A	1000	10000	2SB949A-ND	1.16	.97	.78	—	—	—
Power Amp/Switching	TO-220F	80	4A	1000	10000	2SB0950A-ND	1.35	1.13	.91	—	—	—
Med. Speed Switch	TO-220F	80	8A	2000	10000	2SB0951A-ND	1.61	1.29	.97	—	—	—
Power Amp	TO-220D	60	3A	120	320	2SA2057-ND	1.02	.85	.68	—	—	—
General Amp	TO-220D	80	3A	70	250	2SB1548A-ND	.85	.71	.57	—	—	—
Power Amp	MT-4	60	3A	160	320	2SA20670PACT-ND†	1.06	.89	.71	2SA20670PATB-ND	1,000	602.00
Power Amp	MT-4	60	3A	120	250	2SA20670QACT-ND†	1.06	.89	.71	2SA20670QATB-ND	1,000	602.00
Power Amp	MT-4	80	3A	70	250	2SB1417A0ACT-ND†	1.16	.97	.78	2SB1417A0ATB-ND	1,000	515.00
Power Amp	MT-4	80	2A	1000	10000	2SB1418A0ACT-ND†	1.35	1.13	.91	2SB1418A0ATB-ND	1,000	600.00
RF Amp	M-Type	20	30mA	70	220	2SA12540B-ND	.70	.53	.40	—	—	—
AF Output Amp	M-Type	80	.5A	130	220	2SA17620R-ND	.61	.49	.37	—	—	—
General Amp	M-Type	50	.1A	160	260	2SB06420Q-ND	.39	.31	.22	—	—	—
General Amp	M-Type	50	.1A	210	340	2SB06420R-ND	.39	.31	.22	—	—	—
General Amp	M-Type	50	.1A	290	460	2SB06420S-ND	.39	.31	.22	—	—	—
Power Amp	M-Type	50	.5A	85	170	2SB06440Q-ND	.45	.37	.28	—	—	—
Power Amp	M-Type	50	.5A	120	240	2SB06440R-ND	.45	.37	.28	—	—	—
Power Amp	M-Type	50	.5A	170	340	2SB06440S-ND	.45	.37	.28	—	—	—
AF Low Noise Amp	M-Type	55	50mA	260	520	2SB0745AS-ND	.55	.45	.34	—	—	—
HV Low Noise Amp	M-Type	120	20mA	260	520	2SB07880S-ND	.44	.35	.25	—	—	—
AF Output Amp	M-Type	20	.5A	90	155	2SB07900Q-ND	.58	.47	.35	—	—	—
AF Output Amp	M-Type	20	.5A	130	220	2SB07900R-ND	.58	.47	.35	—	—	—
AF Output Amp	M-Type	40	1.5A	120	220	2SB08190R-ND	.62	.47	.36	—	—	—
AF Amp	M-Type	20	5A	120	205	2SB10500Q-ND	.60	.49	.37	—	—	—
AF Amp	M-Type	20	5A	180	625	2SB10500R-ND	.60	.49	.37	—	—	—
AF Amp	M-Type	400	.1A	40	—	2SB1209-ND	.85	.72	.57	—	—	—
AF Amp	M-Type	20	5A	90	625	2SB13190R-ND	.91	.69	.52	—	—	—
AF Output Amp	TO-92L	25	1A	120	240	2SA06830R-ND	.58	.47	.35	—	—	—
AF Output Amp	TO-92L	50	1A	120	240	2SA06840R-ND	.58	.47	.35	—	—	—
AF Output Amp	TO-92L	50	1A	170	340	2SA06840S-ND	.58	.47	.35	—	—	—
AF Output Amp	TO-92L	80	.5A	90	155	2SA07770Q-ND	1.00	.76	.57	—	—	—
AF Output Amp	TO-92L	80	.5A	130	220	2SA07770R-ND	1.00	.76	.57	—	—	—
General Amp	TO-92L	200	70mA	60	150	2SA08790Q-ND	1.00	.84	.67	—	—	—
AF HV Amp	TO-92L	150	50mA	130	220	2SA11240R-ND	.74	.56	.42	—	—	—
AF Amp	TO-92L	20	5A	120	205	2SB08730Q-ND	1.06	.80	.60	—	—	—
AF Amp	TO-92L	20	5A	180	625	2SB08730R-ND	1.06	.80	.60	—	—	—
AF Output Amp	TO-92NL	50	1A	120	240	2SA1534ARACT-ND†	.59	.48	.36	2SA1534ARATB-ND	3,000	158.00/M
AF Output Amp	TO-92NL	50	1A	170	340	2SA1534ASACT-ND†	.59	.48	.36	2SA1534ASATB-ND	3,000	158.00/M
AF Output Amp	TO-92NL	50	.5A	120	240	2SA1619ARACT-ND†	.54	.44	.33	2SA1619ARATB-ND	3,000	143.00/M
AF Output Amp	TO-92NL	50	.5A	170	340	2SA1619ASACT-ND†	.54	.44	.33	2SA1619ASATB-ND	3,000	143.00/M
General Amp	TO-92NL	200	70mA	60	150	2SB12210QACT-ND†	1.00	.84	.67	2SB12210QATB-ND	3,000	433.00/M
AF Amp	TO-92NL	25	3A	130	450	2SB15920RACT-ND†	.80	.60	.45	2SB15920RATB-ND	3,000	259.00/M

* Darlington † Cut Tape Pricing

(Continued)

Panasonic Transistors and MOSFETs *(Cont.)*

Application	Package	V_{CEO} (V)	IC	h_{FE} Min.	Max.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Box Size	Pricing
General . Amp	MT-1	50	100mA	160	460	2SB1320A0ACT-ND†	.41	.32	.23	2SB1320A0ATB-ND	2,000	97.00/M
Low Freq. Amp	MT-1	50	500mA	85	340	2SB1321A0ACT-ND†	.48	.39	.29	2SB1321A0ATB-ND	2,000	135.00/M
Low Freq. Amp	MT-2	50	2A	120	340	2SB143400ACT-ND†	.68	.52	.39	2SB143400ATB-ND	2,000	227.00/M
Low Freq. Amp	MT-2	50	1A	85	340	2SB1322A0ACT-ND†	.59	.44	.33	2SB1322A0ATB-ND	2,000	195.00/M
Low Freq. Amp	MT-2	25	5A	90	135	2SB13980PACT-ND†	.77	.65	.52	2SB13980PATB-ND	2,000	341.00/M
Low Freq. Amp	MT-2	25	5A	120	205	2SB13980QACT-ND†	.77	.65	.52	2SB13980QATB-ND	2,000	341.00/M
Low Freq. Output Amp	MT-2	80	1A	170	340	2SA16740SACT-ND†	.64	.49	.37	2SA16740SATB-ND	2,000	213.00/M
Low Freq. Output Amp	MT-2	50	5A	120	240	2SB14460RACT-ND†	.92	.70	.52	2SB14460RATB-ND	2,000	307.00/M
Low Freq. Output Amp	MT-2	50	5A	170	340	2SB14460SACT-ND†	.92	.70	.52	2SB14460SATB-ND	2,000	307.00/M
Power Switching	MT-2	400	0.5A	80	160	2SB14880PACT-ND†	.85	.64	.48	2SB14880PATB-ND	2,000	281.00/M
Low Freq. Power Amp	MT-3	60	3A	120	250	2SB14160RACT-ND†	.83	.69	.56	2SB14160RATB-ND	1,000	367.00
Power Switching	MT-3	50	8A	2,000	5,000	2SB15040QACT-ND†	1.43	1.15	.86	2SB15040QATB-ND	1,000	744.00
Power Switching	MT-3	50	8A	4,000	10,000	2SB15040RACT-ND†	1.43	1.15	.86	2SB15040RATB-ND	1,000	744.00
Low Freq. Amp	NEW S Type	50	100mA	160	460	2SA1309A0ACT-ND†	.33	.27	.19	2SA1309A0ATB-ND	5,000	71.00/M
Low Freq. Amp	NEW S Type	50	500mA	85	340	2SB1030ACT-ND †	.47	.40	.32	2SB1030ATB-ND	5,000	118.00/M
Low Freq. Amp	NEW S Type	50	100mA	160	260	2SA1309AQACT-ND†	.39	.30	.21	2SA1309AQATB-ND	5,000	71.00/M
Low Freq. Amp	NEW S Type	50	100mA	210	340	2SA1309ARACT-ND†	.39	.30	.21	2SA1309ARATB-ND	5,000	71.00/M
Low Freq. Amp	NEW S Type	50	100mA	290	460	2SA1309ASACT-ND†	.39	.30	.21	2SA1309ASATB-ND	5,000	71.00/M
Low Freq. Amp	NEW S Type	50	500mA	120	240	2SB1030ARACT-ND†	.47	.40	.32	2SB1030ARATB-ND	5,000	118.00/M
NPN Type												
AF High Power Driver	TO-126	120	0.5A	65	330	2SC1567A-ND	1.29	1.04	.78	—	—	—
Med. Power Amp	TO-126	18	1A	90	280	2SC1568-ND	.77	.65	.52	—	—	—
Med. Power Amp	TO-126	35	1A	85	340	2SC1846-ND	.62	.47	.35	—	—	—
Med. Power Amp	TO-126	40	1.5A	80	220	2SC1847-ND	.85	.64	.48	—	—	—
AF Power Pre-Amp	TO-126	150	50mA	130	330	2SC1953-ND	1.24	1.04	.83	—	—	—
AF Power Amp	TO-126	40	1.5A	80	220	2SC2209-ND	1.16	.97	.78	—	—	—
TV Video Out Amp	TO-126	250	0.1A	40	—	2SC2258-ND	.77	.58	.44	—	—	—
AF Power Amp	TO-126	60	1.5A	80	220	2SC2497A-ND	1.23	1.03	.83	—	—	—
AF Power Amp	TO-126	120	0.5A	90	220	2SC2590-ND	.83	.62	.47	—	—	—
AF Power Amp	TO-126	20	5A	—	—	2SC2594-ND	1.01	.84	.68	—	—	—
RF Power Amp	TO-126	16	0.5A	—	—	2SC2988-ND	2.32	1.86	1.45	—	—	—
Video Amp	TO-126	50	0.15A	20	—	2SC3611-ND	.64	.49	.37	—	—	—
Horz. Deflection Driver	TO-126	300	0.2A	40	250	2SC4212H-ND	.77	.58	.44	—	—	—
Color Chroma Input	TO-126	400	70mA	30	150	2SC5121-ND	.77	.58	.44	—	—	—
AF Output Driver	TO-126	100	.5A	130	220	2SC15670R-ND	.70	.53	.40	—	—	—
AF Output Driver	TO-126	100	.5A	185	330	2SC15670S-ND	.70	.53	.40	—	—	—
AF Output Driver	TO-126	50	1.5A	80	160	2SC24970Q-ND	1.23	1.03	.83	—	—	—
AF Output Driver	TO-126	50	1.5A	120	220	2SC24970R-ND	1.23	1.03	.83	—	—	—
Audio Output	TO-126	300	.1A	50	250	2SC3063-ND	.66	.50	.38	—	—	—
AF Amp	TO-126	60	1A	—	—	2SD1645-ND*	.89	.75	.60	—	—	—
AF Amp	TO-126	60	1A	6500	40K	2SD2018-ND*	.67	.51	.38	—	—	—
AF Amp	TO-126	80	1A	4000	40K	2SD0946B-ND*	.89	.75	.60	—	—	—
AF Amp	TO-126	100	2A	4K	10K	2SD16400Q-ND*	.97	.73	.55	—	—	—
AF Amp	TO-126	100	2A	8K	20K	2SD16400R-ND*	.97	.73	.55	—	—	—
Color Chroma Output	TO-220F	300	0.1A	50	250	2SC3942-ND	.97	.81	.65	—	—	—
Video Amp	TO-220F	50	0.15A	20	—	2SC3943-ND	1.35	1.13	.91	—	—	—
High Power Amp	TO-220F	180	1A	95	220	2SC3944A-ND	1.08	.91	.73	—	—	—
Vertical Deflection	TO-220F	180	2A	60	240	2SD1264A-ND	.89	.75	.60	—	—	—
Power Amp	TO-220F	80	4A	70	250	2SD1267A-ND	1.35	1.13	.91	—	—	—
Power Switching	TO-220F	100	7A	45	260	2SD1271A-ND	1.61	1.29	.97	—	—	—
Power Amp	TO-220F	250	5A	—	—	2SD1274B-ND	1.77	1.42	1.07	—	—	—
Power Amp	TO-220F	80	2A	1000	10K	2SD1275A-ND*	1.08	.91	.73	—	—	—
Power Amp	TO-220F	80	4A	1000	10K	2SD1276A-ND*	1.28	1.07	.86	—	—	—
Med. Speed Switch	TO-220F	80	8A	2000	10K	2SD1277A-ND*	1.45	1.17	.88	—	—	—
High DC Current Gain	TO-220F	60	6A	300	2000	2SD1474-ND	1.45	1.17	.88	—	—	—
High Power Amp	TO-220F	100	5A	20	200	2SD1499-ND	1.47	1.23	.99	—	—	—
Power Switching	TO-220F	60	4A	70	250	2SD2000-ND	.89	.75	.60	—	—	—
High Speed Switch	TO-220D	400	3A	10	—	2SC4953-ND	1.29	1.04	.78	—	—	—
General Amp	TO-220D	80	3A	70	250	2SD2374A-ND	.77	.65	.52	—	—	—
High Gain	TO-220D	60	3A	500	1500	2SD2375-ND	.97	.81	.65	—	—	—
Power Amp	TO-220D	60	3A	—	—	2SC5739-ND	.93	.78	.62	—	—	—
High Gain	TO-220D	60	5A	500	2000	2SD2528-ND	1.29	1.04	.78	—	—	—
General Amp	TO-220D	80	3A	70	250	2SD2549-ND	.92	.70	.52	—	—	—
Power Amp	MT-4	60	3A	160	320	2SC57880PACT-ND†	.97	.81	.65	2SC57880PATB-ND	1,000	551.00
Power Amp	MT-4	60	3A	120	250	2SC57880QACT-ND†	.97	.81	.65	2SC57880QATB-ND	1,000	551.00
Power Amp	MT-4	80	3A	70	2500	2SD2137A0ACT-ND†	1.08	.91	.73	2SD2137A0ATB-ND	1,000	480.00
Power Amp	MT-4	80	2A	1000	10000	2SD2138A0ACT-ND†	1.35	1.13	.91	2SD2138A0ATB-ND	1,000	600.00
High DC Current Gain	MT-4	60	3A	500	2500	2SD213900ACT-ND†	1.16	.97	.78	2SD213900ATB-ND	1,000	515.00
Med Freq. Amp	M-Type	35	50mA	20	100	2SC2188-ND	.45	.37	.28	—	—	—
RF Amp	M-Type	20	30mA	70	140	2SC22060B-ND	.47	.38	.29	—	—	—
RF Amp	M-Type	20	30mA	110	220	2SC22060C-ND	.47	.38	.29	—	—	—
RF Amp	M-Type	20	15mA	65	160	2SC23770C-ND	.45	.38	.31	—	—	—
RF Amp	M-Type	20	15mA	100	260	2SC23770D-ND	.45	.38	.31	—	—	—
RF Amp	M-Type	20	50mA	—	—	2SC26360R-ND	.49	.40	.30	—	—	—
RF Amp	M-Type	20	30mA	110	250	2SC26470C-ND	.46	.37	.26	—	—	—
AF Output Amp	M-Type	80	.5A	130	220	2SC46060R-ND	.57	.46	.35	—	—	—
AF Output Amp	M-Type	80	.5A	185	330	2SC46060S-ND	.57	.46	.35	—	—	—
General Amp	M-Type	400	70mA	60	150	2SD0662BQ-ND	.57	.43	.33	—	—	—
General Amp	M-Type	400	70mA	100	220	2SD0662BR-ND	.57	.43	.33	—	—	—
HV Low Noise Amp	M-Type	120	20mA	180	360	2SD09580R-ND	.55	.41	.31	—	—	—
HV Low Noise Amp	M-Type	120	20mA	260	520	2SD09580S-ND	.55	.41	.31	—	—	—
AF Output Amp	M-Type	50	1A	85	170	2SD0973AQ-ND	.56	.45	.34	—	—	—
AF Output Amp	M-Type	50	1A	120	240	2SD0973AR-ND	.56	.45	.34	—	—	—
AF Output Amp	M-Type	40	1.5A	80	160	2SD10510Q-ND	.55	.42	.32	—	—	—
AF Output Amp	M-Type	40	1.5A	120	220	2SD10510R-ND	.55	.42	.32	—	—	—
AF Amp	M-Type	50	1A	8K	20K	2SD1198AR-ND*	.85	.72	.57	—	—	—
AF Amp	M-Type	40	50mA	600	1200	2SD11990S-ND	.64	.48	.36	—	—	—
AF Amp	M-Type	50	.5A	4K	10K	2SD1205AQ-ND	.75	.57	.43	—	—	—

* Darlington † Cut Tape Pricing

(Continued)

Application	Package	V_{CEO} (V)	I_C	h_{FE}		Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Box	
				Min.	Max.		1	10	100		Size	Pricing
NPN Type												
AF Amp	M-Type	50	.5A	8K	20K	2SD1205AR-ND	.75	.57	.43	—	—	—
AF Output Amp	M-Type	20	3A	230	380	2SD12440Q-ND	.87	.66	.50	—	—	—
AF Output Amp	M-Type	20	3A	340	600	2SD12440R-ND	.87	.66	.50	—	—	—
AF Output Amp	M-Type	20	.5A	200	350	2SD13300R-ND	.46	.38	.31	—	—	—
AF Output Amp	M-Type	20	.5A	300	500	2SD13300S-ND	.46	.38	.31	—	—	—
AF Output Amp	M-Type	20	.5A	400	800	2SD13300T-ND	.46	.38	.31	—	—	—
High Breakdown Sw	M-Type	500	.5A	30	—	2SD1350A-ND	.90	.75	.60	—	—	—
AF Amp	M-Type	400	.1A	30	—	2SD1385-ND	.74	.56	.42	—	—	—
AF Amp	M-Type	20	.7A	1000	2500	2SD1458-ND	.61	.49	.37	—	—	—
AF Amp	TO-92L	25	1A	120	240	2SC13830R-ND	.57	.46	.35	—	—	—
AF Amp	TO-92L	25	1A	170	340	2SC13830S-ND	.57	.46	.35	—	—	—
AF Amp	TO-92L	50	1A	85	170	2SC13840Q-ND	.57	.46	.35	—	—	—
AF Amp	TO-92L	50	1A	120	120	2SC13840R-ND	.57	.46	.35	—	—	—
AF Amp	TO-92L	50	1A	170	340	2SC13840S-ND	.57	.46	.35	—	—	—
AF Output Amp	TO-92L	80	.5A	130	220	2SC15090R-ND	.71	.54	.41	—	—	—
AF Output Amp	TO-92L	80	.5A	185	330	2SC15090S-ND	.71	.54	.41	—	—	—
AF Output Amp	TO-92L	20	1A	130	220	2SC15180R-ND	.98	.74	.56	—	—	—
General Amp	TO-92L	200	70mA	60	150	2SC15730Q-ND	.62	.47	.35	—	—	—
General Amp	TO-92L	200	70mA	100	220	2SC15730R-ND	.62	.47	.35	—	—	—
General Amp	TO-92L	300	70mA	60	150	2SC1573AQ-ND	.52	.40	.30	—	—	—
General Amp	TO-92L	300	70mA	100	220	2SC1573AR-ND	.52	.40	.30	—	—	—
General Amp	TO-92L	400	70mA	60	150	2SC1573BQ-ND	.52	.40	.30	—	—	—
General Amp	TO-92L	400	70mA	100	220	2SC1573BR-ND	.52	.40	.30	—	—	—
AF HV Amp	TO-92L	150	50mA	130	220	2SC26320R-ND	.66	.50	.38	—	—	—
AF Amp	TO-92L	120	.5A	130	220	2SD12110R-ND	.76	.57	.43	—	—	—
AF Amp	TO-92L	120	.5A	185	330	2SD12110S-ND	.76	.57	.43	—	—	—
AF Output Amp	TO-92L	20	5A	230	380	2SD09660Q-ND	1.00	.76	.57	—	—	—
AF Output Amp	TO-92L	20	5A	340	600	2SD09660R-ND	1.00	.76	.57	—	—	—
AF Output Amp	TO-92NL	80	.5A	130	220	2SC39390RACT-ND†	.57	.43	.33	2SC39390RATB-ND	3,000	186.00/M
AF Output Amp	TO-92NL	80	.5A	185	330	2SC39390SACT-ND†	.57	.43	.33	2SC39390SATB-ND	3,000	186.00/M
AF Output Amp	TO-92NL	25	1A	120	240	2SC39400RACT-ND†	.59	.47	.36	2SC39400RATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	25	1A	170	340	2SC39400SACT-ND†	.59	.47	.36	2SC39400SATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	50	1A	85	170	2SC3940AQACT-ND†	.59	.47	.36	2SC3940AQATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	50	1A	120	240	2SC3940ARACT-ND†	.59	.47	.36	2SC3940ARATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	50	1A	170	340	2SC3940ASACT-ND†	.59	.47	.36	2SC3940ASATB-ND	3,000	156.00/M
General Amp	TO-92NL	300	70mA	60	150	2SC39410QACT-ND†	.49	.37	.28	2SC39410QATB-ND	3,000	162.00/M
General Amp	TO-92NL	300	70mA	100	220	2SC39410RACT-ND†	.49	.37	.28	2SC39410RATB-ND	3,000	162.00/M
AF Output Amp	TO-92NL	50	.5A	120	240	2SC4208ARACT-ND†	.54	.44	.33	2SC4208ARATB-ND	3,000	144.00/M
General Amp	MT-1	50	100mA	160	460	2SD1991A0ACT-ND†	.37	.30	.21	2SD1991A0ATB-ND	2,000	89.00/M
General Amp	MT-1	50	500mA	210	340	2SD1991ARACT-ND†	.33	.26	.19	2SD1991ARATB-ND	2,000	79.00/M
Low Freq. Amp	MT-1	50	500mA	85	340	2SD1992A0ACT-ND†	.45	.36	.27	2SD1992A0ATB-ND	2,000	125.00/M
Low Freq. Amp	MT-1	20	500mA	200	350	2SD19960RACT-ND†	.54	.44	.33	2SD19960RATB-ND	2,000	152.00/M
Low Freq. Amp	MT-1	20	500mA	300	500	2SD19960SACT-ND†	.54	.44	.33	2SD19960SATB-ND	2,000	152.00/M
Low Freq. Amp	MT-1	20	500mA	400	800	2SD19960TACT-ND†	.54	.44	.33	2SD19960TATB-ND	2,000	152.00/M
Low Freq. Amp	MT-1	50	1A	85	340	2SD1994A0ACT-ND†	.59	.47	.36	2SD1994A0ATB-ND	2,000	164.00/M
Low Freq. Amp	MT-2	50	2A	120	340	2SD217700ACT-ND†	.93	.70	.53	2SD217700ATB-ND	2,000	311.00/M
Low Freq. Amp	MT-2	60	2A	120	340	2SD2177A0ACT-ND†	.93	.70	.53	2SD2177A0ATB-ND	2,000	311.00/M
Low Freq. Amp	MT-2	50	1A	120	240	2SD1994ARACT-ND†	.53	.43	.32	2SD1994ARATB-ND	2,000	147.00/M
Low Freq. Amp	MT-2	50	1A	170	340	2SD1994ASACT-ND†	.53	.43	.32	2SD1994ASATB-ND	2,000	147.00/M
Low Freq. Amp	MT-2	50	100mA	170	340	2SD21770SACT-ND†	.84	.63	.48	2SD21770SATB-ND	2,000	279.00/M
AF Output Amp	MT-2	80	1A	120	240	2SC43910RACT-ND†	.50	.38	.28	2SC43910RATB-ND	2,000	165.00/M
AF Power Amp	MT-2	20	5A	340	600	2SD22490RACT-ND†	.62	.47	.35	2SD22490RATB-ND	2,000	205.00/M
AF Amp	MT-2	50	500mA	8,000	20,000	2SD25980RACT-ND†	.56	.46	.34	2SD25980RATB-ND	2,000	158.00/M
AF Output Amp	MT-3	50	1A	120	240	2SD21330RACT-ND†	.72	.54	.41	2SD21330RATB-ND	1,000	239.00
AF Output Amp	MT-3	50	1A	170	340	2SD21330SACT-ND†	.72	.54	.41	2SD21330SATB-ND	1,000	239.00
AF High Power Driver	MT-3	150	1A	130	220	2SD21340RACT-ND†	.82	.69	.55	2SD21340RATB-ND	1,000	363.00
Power Amp	MT-3	60	3A	70	150	2SD21360QACT-ND†	.98	.74	.56	2SD21360QATB-ND	1,000	327.00
Power Amp	MT-3	60	3A	120	250	2SD21360RACT-ND†	.90	.75	.61	2SD21360RATB-ND	1,000	399.00
AF Output Amp	MT-3	50	2A	120	240	2SD21780RACT-ND†	.83	.63	.47	2SD21780RATB-ND	1,000	276.00
AF Output Amp	MT-3	50	2A	170	340	2SD21780SACT-ND†	.83	.63	.47	2SD21780SATB-ND	1,000	276.00
AF Amp	MT-3	80	1A	8,000	20,000	2SD22200RACT-ND†	.77	.65	.52	2SD22200RATB-ND	1,000	341.00
AF Amp	MT-3	100	2A	8,000	20,000	2SD24790RACT-ND†	.96	.81	.65	2SD24790RATB-ND	1,000	426.00
Low Freq. Amp	NEW S Type	50	100mA	160	460	2SC3311A0ACT-ND†	.33	.27	.19	2SC3311A0ATB-ND	5,000	71.00/M
Low Freq. Amp	NEW S Type	50	500mA	85	340	2SD1423ACT-ND †	.48	.40	.32	2SD1423ATB-ND	5,000	119.00/M
Low Freq. Amp	NEW S Type	20	500mA	200	800	2SD145000ACT-ND†	.42	.34	.26	2SD145000ATB-ND	5,000	108.00/M
Low Freq. Amp	NEW S Type	50	100mA	160	260	2SC3311AQACT-ND†	.39	.30	.21	2SC3311AQATB-ND	5,000	71.00/M
Low Freq. Amp	NEW S Type	50	100mA	210	340	2SC3311ARACT-ND†	.39	.30	.21	2SC3311ARATB-ND	5,000	71.00/M
Low Freq. Amp	NEW S Type	50	100mA	290	460	2SC3311ASACT-ND†	.39	.30	.21	2SC3311ASATB-ND	5,000	71.00/M
Low Freq. Amp	NEW S Type	20	500mA	200	350	2SD14500RACT-ND†	.47	.40	.32	2SD14500RATB-ND	5,000	118.00/M
Low Freq. Amp	NEW S Type	20	500mA	300	500	2SD14500SACT-ND†	.47	.40	.32	2SD14500SATB-ND	5,000	118.00/M
Low Freq. Amp	NEW S Type	20	500mA	400	800	2SD14500TACT-ND†	.47	.40	.32	2SD14500TATB-ND	5,000	118.00/M
Low Freq. Amp	NEW S Type	50	500mA	120	240	2SD1423ARACT-ND†	.48	.40	.32	2SD1423ARATB-ND	5,000	119.00/M

* Darlington † Cut Tape Pricing

Power MOSFETs

Package	V_{DSS} (V)	V_{GSS} (V)	I_D	R_{DS} (on) Type (Ω)	Digi-Key Part No.	Price Each				
						1	10	100	500	1,000
N-Channel Type										
TO-220D	450	30	5A	1.0	2SK3043-ND	1.80	1.45	1.09	.98	.94
	450	30	7A	0.56	2SK3044-ND	2.47	1.98	1.48	1.34	1.29
	500	30	2.5A	3.2	2SK3045-ND	1.52	1.22	.92	.82	.79
	500	30	7A	0.7	2SK3046-ND	2.37	1.90	1.43	1.29	1.24
	800	30	2A	4.8	2SK3047-ND	1.83	1.47	1.11	1.00	.96
	600	30	3A	1.7	2SK3048-ND	1.77	1.42	1.07	.96	.93
	600	30	5A	0.85	2SK3049-ND	2.47	1.98	1.48	1.34	1.29
M-Type	80	20	.5A	2	2SK0615-ND	1.32	1.10	.88	.62	.59

Panasonic Surface Mount Transistors and MOSFETs

Transistors

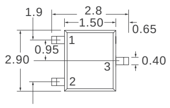
Application	Package	V_{CEO} (V)	IC	h_{FE}		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
				Min.	Max.		1	10	100		Size	Pricing
PNP Type												
DC-DC Converter	Mini 3P	15	2.5A	200	560	2SA201000LCT-ND	.51	.38	.29	2SA201000LTR-ND	3,000	164.00/M
DC-DC Converter	Mini 3P	20	1.5A	160	560	2SA204600LCT-ND	.49	.37	.28	2SA204600LTR-ND	3,000	159.00/M
High Freq. Amp	Mini 3P	-20	-30mA	110	220	2SA10220CLCT-ND	.41	.34	.23	2SA10220CLTR-ND	3,000	108.00/M
Low Noise Amp	Mini 3P	-150	-50mA	185	330	2SB07920SLCT-ND	.39	.30	.21	2SB07920SLTR-ND	3,000	78.00/M
Low-Volt. Amp	Mini 3P	-10	-0.5A	130	220	2SB09700RLCT-ND	.54	.41	.31	2SB09700RLTR-ND	3,000	176.00/M
Low-Volt. Amp	Mini 3P	-10	-0.5A	180	350	2SB09700SLCT-ND	.54	.41	.31	2SB09700SLTR-ND	3,000	176.00/M
AF Amplifier	S-Mini 3P	10	1.0A	130	350	2SB167900LCT-ND	.59	.48	.36	2SB167900LTR-ND	3,000	158.00/M
DC-DC Converter	S-Mini 3P	-20	-1A	160	560	2SA202800LCT-ND	.62	.47	.35	2SA202800LTR-ND	3,000	200.00/M
RF Amp	SS-Mini 3P	50	50mA	250	500	2SA17910RLCT-ND	.43	.36	.29	2SA17910RLTR-ND	3,000	115.00/M
AF HV Amp	SS-Mini 3P	150	50mA	130	220	2SB14630RLCT-ND	.97	.73	.55	2SB14630RLTR-ND	3,000	314.00/M
AF HV Amp	SS-Mini 3P	150	50mA	185	330	2SB14630SLCT-ND	.97	.73	.55	2SB14630SLTR-ND	3,000	314.00/M
AF Output Amp	Mini Pwr	80	1A	120	240	2SA18900RLCT-ND	.58	.44	.33	2SA18900RLTR-ND	1,000	191.00
Power Amp	Mini Pwr	40	1.5A	80	160	2SB15990QLCT-ND	.71	.54	.40	2SB15990QLTR-ND	1,000	236.00
Power Amp	Mini Pwr	40	1.5A	100	220	2SB15990RLCT-ND	.71	.54	.40	2SB15990RLTR-ND	1,000	236.00
AF Output Amp	Mini Pwr	80	.5A	90	155	2SB07670QLCT-ND	.52	.40	.30	2SB07670QLTR-ND	1,000	175.00
AF Output Amp	Mini Pwr	80	.5A	130	220	2SB07670RLCT-ND	.52	.40	.30	2SB07670RLTR-ND	1,000	175.00
Power Amp	Mini Pwr	60	2A	80	250	2SB169900LCT-ND	.59	.45	.34	2SB169900LTR-ND	1,000	196.00
NPN Type												
DC-DC Converter	Mini 3P	15	2.5A	400	1000	2SC559200LCT-ND	.49	.37	.28	2SC559200LTR-ND	3,000	159.00/M
DC-DC Converter	Mini 3P	15	2A	200	800	2SC572500LCT-ND	.58	.47	.35	2SC572500LTR-ND	3,000	155.00/M
High Speed Switch.	Mini 3P	40	100	90	200	2SC37570RLCT-ND	.48	.37	.28	2SC37570RLTR-ND	3,000	157.00/M
Low Noise Amp	Mini 3P	35	50mA	180	360	2SC24050RLCT-ND	.61	.46	.35	2SC24050RLTR-ND	3,000	197.00/M
Low Noise Amp	Mini 3P	55	50mA	260	520	2SC24060SLCT-ND	.55	.42	.31	2SC24060SLTR-ND	3,000	178.00/M
Low Freq./Noise Amp	Mini 3P	185	50mA	130	220	2SD0814ARLCT-ND	.39	.30	.21	2SD0814ARLTR-ND	3,000	78.00/M
Low Freq./Noise Amp	Mini 3P	185	50mA	185	330	2SD0814ASLCT-ND	.39	.30	.21	2SD0814ASLTR-ND	3,000	78.00/M
RF Amp	S-Mini 3P	20	30mA	110	220	2SC39300CLCT-ND	.53	.40	.30	2SC39300CLTR-ND	3,000	172.00/M
RF Amp	S-Mini 3P	20	15mA	65	160	2SC39310CLCT-ND	.52	.40	.30	2SC39310CLTR-ND	3,000	170.00/M
RF Amp	S-Mini 3P	10	50mA	75	130	2SC39350PLCT-ND	.74	.56	.42	2SC39350PLTR-ND	3,000	241.00/M
High Freq. Amp	S-Mini 3P	8	50mA	100	350	2SC563200LCT-ND	.42	.34	.25	2SC563200LTR-ND	3,000	111.00/M
RF Amp	SS-Mini 3P	20	30mA	70	160	2SC46550BLCT-ND	.36	.29	.20	2SC46550BLTR-ND	3,000	81.00/M
RF Amp	SS-Mini 3P	20	30mA	110	250	2SC46550CLCT-ND	.36	.29	.20	2SC46550CLTR-ND	3,000	81.00/M
RF Amp	SS-Mini 3P	50	50mA	250	500	2SC46560RLCT-ND	.41	.33	.23	2SC46560RLTR-ND	3,000	107.00/M
RF Amp, Mixer	SS-Mini 3P	10	50mA	110	220	2SC48090QLCT-ND	.72	.54	.41	2SC48090QLTR-ND	3,000	233.00/M
RF Amp, Mixer	SS-Mini 3P	10	50mA	200	400	2SC48090RLCT-ND	.72	.54	.41	2SC48090RLTR-ND	3,000	233.00/M
Low Noise Amp	SS-Mini 3P	10	65mA	100	170	2SC52950RLCT-ND	.48	.39	.29	2SC52950RLTR-ND	3,000	128.00/M
RF Amp	SS-Mini 3P	6	30mA	40	160	2SC536300LCT-ND	.60	.48	.36	2SC536300LTR-ND	3,000	159.00/M
Low Noise Amp	SS-Mini 3P	150	50mA	130	220	2SD22400RLCT-ND	.71	.54	.41	2SD22400RLTR-ND	3,000	232.00/M
Low Noise Amp	SS-Mini 3P	150	50mA	185	330	2SD22400SLCT-ND	.71	.54	.41	2SD22400SLTR-ND	3,000	232.00/M
AF Amp	SS-Mini 3P	40	50mA	600	1200	2SD23450SLCT-ND	.48	.39	.29	2SD23450SLTR-ND	3,000	129.00/M
AF Output Amp	Mini Pwr	80	.5A	130	220	2SD08750RLCT-ND	.52	.40	.30	2SD08750RLTR-ND	1,000	174.00
AF Output Amp	Mini Pwr	80	.5A	185	330	2SD08750SLCT-ND	.52	.40	.30	2SD08750SLTR-ND	1,000	174.00
AF Amp	Mini Pwr	400	.1A	30	—	2SD241300LCT-ND	.71	.54	.41	2SD241300LTR-ND	1,000	238.00
AF Power Amp	Mini Pwr	40	1.5A	80	160	2SD24570QLCT-ND	.94	.71	.53	2SD24570QLTR-ND	1,000	312.00
AF Output Amp	Mini Pwr	150	1A	120	240	2SD24590RLCT-ND	.92	.70	.52	2SD24590RLTR-ND	1,000	307.00
AF Output Amp	Mini Pwr	150	1A	170	340	2SD24590SLCT-ND	.92	.70	.52	2SD24590SLTR-ND	1,000	307.00
AF Amp	Mini Pwr	20	1A	130	210	2SD12800RLCT-ND	.77	.58	.44	2SD12800RLTR-ND	1,000	256.00
AF Amp	Mini Pwr	20	1A	180	280	2SD12800SLCT-ND	.77	.58	.44	2SD12800SLTR-ND	1,000	256.00

Surface Mount MOSFETS

Package	V_{DSS} (V)	V_{GSS} (V)	I_D (A)	R_{DS} (on) Typ. (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
						1	10	100		Size	Pricing
Small Signal/Switching MOSFET — N-Channel Type											
S-Mini 3P	30	20	1	30	2SK306400LCT-ND	.46	.39	.31	2SK306400LTR-ND	3,000	123.00/M
S-Mini 3P	50	7	1	8/6	2SK353900LCT-ND	.43	.35	.26	2SK353900LTR-ND	3,000	115.00/M
Mini 3P	50	10	.05	27	2SK122800LCT-ND	.48	.40	.32	2SK122800LTR-ND	3,000	128.00/M
S-Mini 6P	50	7	1	8/6	XP0487800LCT-ND	.68	.52	.39	XP0487800LTR-ND	3,000	222.00/M
SS-Mini 3P	—	—	.1mA	—	2SK23800QLCT-ND	.80	.60	.45	2SK23800QLTR-ND	3,000	260.00/M
SS-Mini 3P	—	—	30mA	—	2SK25930PLCT-ND	.51	.41	.31	2SK25930PLTR-ND	3,000	136.00/M
SS-Mini 3P	—	—	30mA	—	2SK25930QLCT-ND	.51	.41	.31	2SK25930QLTR-ND	3,000	136.00/M
SS-Mini 3P	—	—	10mA	—	2SK298800LCT-ND	.45	.38	.30	2SK298800LTR-ND	3,000	120.00/M
Mini Pwr	80	—	0.5	2	2SK060100LCT-ND	1.19	1.00	.80	2SK060100LTR-ND	1,000	528.00
Mini Pwr	30	20	1	0.48	2SK221100LCT-ND	.60	.45	.34	2SK221100LTR-ND	1,000	199.00
Small Signal/Switching MOSFET — P-Channel Type											
S-Mini 3P	30	20	1	50	2SJ053600LCT-ND	.48	.40	.32	2SJ053600LTR-ND	3,000	128.00/M

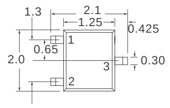
Unit - mm

Mini Type Package (3-pin)



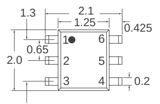
Transistors:	**Mosfets:**
1. Base	1. Gate
2. Emitter	2. Source
3. Collector	3. Drain

S-Mini Type Package (3-pin)



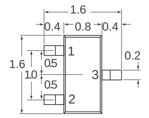
Transistors:	**Mosfets:**
1. Base	1. Gate
2. Emitter	2. Source
3. Collector	3. Drain

S-Mini Type Package (6-pin)



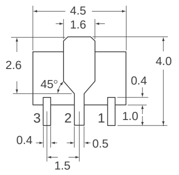
1. Source	4. Source
2. Gate	5. Gate
3. Drain	6. Source

SS-Mini Type Package (3-pin)



Transistor:	Mosfets
1.Base	1. Source
2. Emitter	2. Drain
3. Collector	3. Gate

Mini Power Type Package

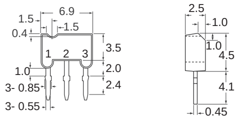


Transistor:	Mosfets
1.Base	1. Gate
2. Collector	2. Drain
3. Emitter	3. Source

PNP/NPN Transistors

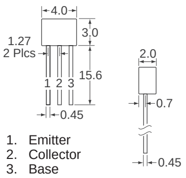
M-Type with Built-in Resistor

1. Base
2. Collector
3. Emitter



Res. Value R_B K Ohms	Res. Value R_{BE} K Ohms	hFE min. V_{CE}= 10V Ic=5mA	VCEO (V)	IC (mA)	PT (mW)	Digi-Key Part No.	Price Each 1	10	100
PNP									
22	22	60	50	100	400	UNR1112-ND	.44	.35	.25
47	47	80	50	100	400	UNR1113-ND	.44	.35	.25
10	47	80	50	100	400	UNR1114-ND	.44	.35	.25
10	—	160	50	100	400	UNR1115-ND	.44	.35	.25
4.7	—	160	50	100	400	UNR1116-ND	.44	.35	.25
22	—	160	50	100	400	UNR1117-ND	.44	.35	.25
47	22	60	50	100	400	UNR111E-ND	.44	.35	.25
4.7	10	30	50	100	400	UNR111F-ND	.44	.35	.25
2.2	10	30	50	100	400	UNR111H-ND	.44	.35	.25
2.2	2.2	40	50	500	600	UNR1121-ND	.64	.51	.39
4.7	4.7	50	50	500	600	UNR1122-ND	.64	.51	.39
10	10	60	50	500	600	UNR1123-ND	.64	.51	.39
2.2	10	60	50	500	600	UNR1124-ND	.64	.51	.39
NPN									
47	—	160	50	100	400	UNR1210-ND	.44	.35	.25
10	10	35	50	100	400	UNR1211-ND	.44	.35	.25
22	22	60	50	100	400	UNR1212-ND	.44	.35	.25
47	47	80	50	100	400	UNR1213-ND	.44	.35	.25
10	47	80	50	100	400	UNR1214-ND	.44	.35	.25
10	—	160	50	100	400	UNR1215-ND	.44	.35	.25
4.7	—	160	50	100	400	UNR1216-ND	.44	.35	.25
1	10	30	50	100	400	UNR1219-ND	.44	.35	.25
47	10	30	50	100	400	UNR121D-ND	.44	.35	.25
47	22	60	50	100	400	UNR121E-ND	.44	.35	.25
4.7	10	30	50	100	400	UNR121F-ND	.44	.35	.25
2.2	2.2	40	50	500	600	UNR1221-ND	.64	.51	.39
4.7	4.7	50	50	500	600	UNR1222-ND	.64	.51	.39
10	10	60	50	500	600	UNR1223-ND	.64	.51	.39
2.2	10	60	50	500	600	UNR1224-ND	.64	.51	.39
1	47	800	20	700	1000	UNR1231-ND	.90	.68	.51
1	4.7	800	50	700	1000	UNR1231A-ND	.90	.68	.51

NEW S Type



1. Emitter
2. Collector
3. Base

Res. Value R_B K Ohms	Res. Value R_{BE} K Ohms	hFE min. V_{CE}= 10V Ic=5mA	VCEO (V)	IC (mA)	PT (mW)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 5,000
PNP											
22	22	60	-50	-100	300	UNR411200ACT-ND	.45	.38	.31	UNR411200ATB-ND	113.00/M
47	47	80	-50	-100	300	UNR411300ACT-ND	.45	.38	.31	UNR411300ATB-ND	113.00/M
4.7	10	30	-50	-100	300	UNR411F00ACT-ND	.45	.38	.31	UNR411F00ATB-ND	113.00/M
4.7	4.7	20	-50	-100	300	UNR411L00ACT-ND	.45	.38	.31	UNR411L00ATB-ND	113.00/M
2.2	10	60•	-50	-500	300	UNR412400ACT-ND	.56	.45	.34	UNR412400ATB-ND	142.00/M
NPN											
47	47	80	50	100	300	UNR421300ACT-ND	.45	.38	.31	UNR421300ATB-ND	113.00/M
0.51	5.1	20	50	100	300	UNR421800ACT-ND	.45	.38	.31	UNR421800ATB-ND	113.00/M
10	10	60•	50	500	300	UNR422300ACT-ND	.56	.45	.34	UNR422300ATB-ND	142.00/M
2.2	10	60•	50	500	300	UNR422400ACT-ND	.56	.45	.34	UNR422400ATB-ND	142.00/M

• Ic=100mA

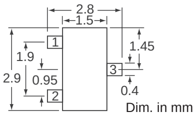
Panasonic® PNP/NPN Transistors

Mini Type

Surface Mount with built-in resistors for preset gains

VCEO=50V/-50V **PT=200mW**
IC=100mA/-100mA **JEDEC:TO-236**
EIAJ: SC-59A

1. Base
2. Emitter
3. Collector



Resistance Value RB K Ohms	Resistance Value RBE K Ohms	hFE min Vce=10V IC=5mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Reel Size	Tape & Reel Pricing
PNP									
10	10	35	UNR211100LCT-ND	.37	.29	.20	UNR211100LTR-ND	3,000	75.00/M
22	22	60	UNR211200LCT-ND	.37	.29	.20	UNR211200LTR-ND	3,000	75.00/M
47	47	80	UNR211300LCT-ND	.37	.29	.20	UNR211300LTR-ND	3,000	75.00/M
10	47	80	UNR211400LCT-ND	.37	.29	.20	UNR211400LTR-ND	3,000	75.00/M
10	∞	160	UNR211500LCT-ND	.37	.29	.20	UNR211500LTR-ND	3,000	75.00/M
4.7	∞	160	UNR211600LCT-ND	.37	.29	.20	UNR211600LTR-ND	3,000	75.00/M
22	∞	160	UNR211700LCT-ND	.37	.29	.20	UNR211700LTR-ND	3,000	75.00/M
0.51	5.1	20	UNR211800LCT-ND	.37	.29	.20	UNR211800LTR-ND	3,000	75.00/M
1	10	30	UNR211900LCT-ND	.37	.29	.20	UNR211900LTR-ND	3,000	75.00/M
47	∞	160	UNR211000LCT-ND	.37	.29	.20	UNR211000LTR-ND	3,000	75.00/M
47	10	30	UNR211D00LCT-ND	.37	.29	.20	UNR211D00LTR-ND	3,000	75.00/M
47	22	60	UNR211E00LCT-ND	.37	.29	.20	UNR211E00LTR-ND	3,000	75.00/M
4.7	10	30	UNR211F00LCT-ND	.37	.29	.20	UNR211F00LTR-ND	3,000	75.00/M
2.2	10	30	UNR211H00LCT-ND	.37	.29	.20	UNR211H00LTR-ND	3,000	75.00/M
4.7	4.7	20	UNR211L00LCT-ND	.37	.29	.20	UNR211L00LTR-ND	3,000	75.00/M
2.2	47	80	UNR211M00LCT-ND	.37	.29	.20	UNR211M00LTR-ND	3,000	75.00/M
4.7	47	80	UNR211N00LCT-ND	.37	.29	.20	UNR211N00LTR-ND	3,000	75.00/M
2.2	2.2	6	UNR211V00LCT-ND	.37	.29	.20	UNR211V00LTR-ND	3,000	75.00/M
0.27	5	20‡	UNR212X00LCT-ND§	.56	.46	.34	UNR212X00LTR-ND	3,000	150.00/M
2.2	2.2	40	UNR212100LCT-ND	.58	.47	.35	UNR212100LTR-ND	3,000	155.00/M
4.7	4.7	50	UNR212200LCT-ND	.58	.47	.35	UNR212200LTR-ND	3,000	155.00/M
10	10	60	UNR212300LCT-ND	.58	.47	.35	UNR212300LTR-ND	3,000	155.00/M
2.2	10	60	UNR212400LCT-ND	.58	.47	.35	UNR212400LTR-ND	3,000	155.00/M
NPN									
10	10	35	UNR221100LCT-ND	.37	.29	.20	UNR221100LTR-ND	3,000	75.00/M
22	22	60	UNR221200LCT-ND	.37	.29	.20	UNR221200LTR-ND	3,000	75.00/M
47	47	80	UNR221300LCT-ND	.37	.29	.20	UNR221300LTR-ND	3,000	75.00/M
10	47	80	UNR221400LCT-ND	.37	.29	.20	UNR221400LTR-ND	3,000	75.00/M
10	∞	160	UNR221500LCT-ND	.37	.29	.20	UNR221500LTR-ND	3,000	75.00/M
4.7	∞	160	UNR221600LCT-ND	.37	.29	.20	UNR221600LTR-ND	3,000	75.00/M
22	∞	160	UNR221700LCT-ND	.37	.29	.20	UNR221700LTR-ND	3,000	75.00/M
0.51	5.1	20	UNR221800LCT-ND	.37	.29	.20	UNR221800LTR-ND	3,000	75.00/M
1	10	30	UNR221900LCT-ND	.37	.29	.20	UNR221900LTR-ND	3,000	75.00/M
47	∞	160	UNR221000LCT-ND	.37	.29	.20	UNR221000LTR-ND	3,000	75.00/M
47	10	30	UNR221D00LCT-ND	.37	.29	.20	UNR221D00LTR-ND	3,000	75.00/M
47	22	60	UNR221E00LCT-ND	.37	.29	.20	UNR221E00LTR-ND	3,000	75.00/M
4.7	10	30	UNR221F00LCT-ND	.37	.29	.20	UNR221F00LTR-ND	3,000	75.00/M
10	4.7	20	UNR221K00LCT-ND	.37	.29	.20	UNR221K00LTR-ND	3,000	75.00/M
4.7	4.7	20	UNR221L00LCT-ND	.37	.29	.20	UNR221L00LTR-ND	3,000	75.00/M
2.2	47	80	UNR221M00LCT-ND	.37	.29	.20	UNR221M00LTR-ND	3,000	75.00/M
4.7	47	80	UNR221N00LCT-ND	.37	.29	.20	UNR221N00LTR-ND	3,000	75.00/M
22	47	80	UNR221T00LCT-ND	.36	.27	.19	UNR221T00LTR-ND	3,000	72.00/M
2.2	2.2	6	UNR221V00LCT-ND	.37	.29	.20	UNR221V00LTR-ND	3,000	75.00/M
2.2	2.2	40	UNR222100LCT-ND	.54	.43	.33	UNR222100LTR-ND	3,000	143.00/M
4.7	4.7	50	UNR222200LCT-ND	.54	.43	.33	UNR222200LTR-ND	3,000	143.00/M
2.2	10	60	UNR222400LCT-ND	.54	.43	.33	UNR222400LTR-ND	3,000	143.00/M
1	47	800	UNR723100LCT-ND*	.66	.50	.38	UNR723100LTR-ND*	1,000	219.00

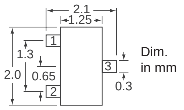
***Mini Power Type** **VCE0**-20V **IC**=700mA **PT**-1000mW § **IC=**500mA ‡ **IC**=100mA

S-Mini Type

Surface Mount with built-in resistors for preset gains

VCEO=50V/-50V **PT=150mW**
IC=100mA/-100mA **EIAJ: SC-70**

1. Base
2. Emitter
3. Collector



Resistance Value RB K Ohms	Resistance Value RBE K Ohms	hFE min Vce=10V IC=5mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
PNP								
10	10	35	UNR511100LCT-ND	.40	.30	.21	UNR511100LTR-ND	80.00/M
22	22	60	UNR511200LCT-ND	.40	.30	.21	UNR511200LTR-ND	80.00/M
47	47	80	UNR511300LCT-ND	.40	.30	.21	UNR511300LTR-ND	80.00/M
10	47	80	UNR511400LCT-ND	.40	.30	.21	UNR511400LTR-ND	80.00/M
10	∞	160	UNR511500LCT-ND	.40	.30	.21	UNR511500LTR-ND	80.00/M
4.7	∞	160	UNR511600LCT-ND	.40	.30	.21	UNR511600LTR-ND	80.00/M
22	∞	160	UNR511700LCT-ND	.40	.30	.21	UNR511700LTR-ND	80.00/M
0.51	5.1	20	UNR511800LCT-ND	.40	.30	.21	UNR511800LTR-ND	80.00/M
1	10	30	UNR511900LCT-ND	.40	.30	.21	UNR511900LTR-ND	80.00/M
47	∞	160	UNR511000LCT-ND	.40	.30	.21	UNR511000LTR-ND	80.00/M
47	10	30	UNR511D00LCT-ND	.40	.30	.21	UNR511D00LTR-ND	80.00/M
47	22	60	UNR511E00LCT-ND	.40	.30	.21	UNR511E00LTR-ND	80.00/M
4.7	10	30	UNR511F00LCT-ND	.40	.30	.21	UNR511F00LTR-ND	80.00/M
2.2	10	30	UNR511H00LCT-ND	.40	.30	.21	UNR511H00LTR-ND	80.00/M
4.7	4.7	20	UNR511L00LCT-ND	.40	.30	.21	UNR511L00LTR-ND	80.00/M
2.2	47	80	UNR511M00LCT-ND	.40	.30	.21	UNR511M00LTR-ND	80.00/M
4.7	47	80	UNR511N00LCT-ND	.40	.30	.21	UNR511N00LTR-ND	80.00/M
2.2	2.2	6	UNR511V00LCT-ND	.40	.30	.21	UNR511V00LTR-ND	80.00/M
NPN								
10	10	35	UNR521100LCT-ND	.40	.30	.21	UNR521100LTR-ND	80.00/M
22	22	60	UNR521200LCT-ND	.40	.30	.21	UNR521200LTR-ND	80.00/M
47	47	80	UNR521300LCT-ND	.40	.30	.21	UNR521300LTR-ND	80.00/M
10	47	80	UNR521400LCT-ND	.40	.30	.21	UNR521400LTR-ND	80.00/M
10	∞	160	UNR521500LCT-ND	.40	.30	.21	UNR521500LTR-ND	80.00/M
4.7	∞	160	UNR521600LCT-ND	.40	.30	.21	UNR521600LTR-ND	80.00/M
22	∞	160	UNR521700LCT-ND	.40	.30	.21	UNR521700LTR-ND	80.00/M
0.51	5.1	20	UNR521800LCT-ND	.40	.30	.21	UNR521800LTR-ND	80.00/M
1	10	30	UNR521900LCT-ND	.40	.30	.21	UNR521900LTR-ND	80.00/M
47	∞	160	UNR521000LCT-ND	.40	.30	.21	UNR521000LTR-ND	80.00/M
47	10	30	UNR521D00LCT-ND	.40	.30	.21	UNR521D00LTR-ND	80.00/M
47	22	60	UNR521E00LCT-ND	.40	.30	.21	UNR521E00LTR-ND	80.00/M
4.7	10	30	UNR521F00LCT-ND	.40	.30	.21	UNR521F00LTR-ND	80.00/M
10	4.7	20	UNR521K00LCT-ND	.40	.30	.21	UNR521K00LTR-ND	80.00/M
4.7	4.7	20	UNR521L00LCT-ND	.40	.30	.21	UNR521L00LTR-ND	80.00/M
2.2	47	80	UNR521M00LCT-ND	.40	.30	.21	UNR521M00LTR-ND	80.00/M
4.7	47	80	UNR521N00LCT-ND	.40	.30	.21	UNR521N00LTR-ND	80.00/M
2.2	2.2	6	UNR521V00LCT-ND	.40	.30	.21	UNR521V00LTR-ND	80.00/M

SSS-Mini Type

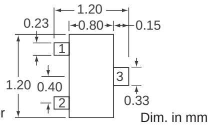
Surface Mount with built-in-resistors for preset gains

VCEO= -50V/50V

IC= -100mA/100mA

PT=100mW

1. Base
2. Emitter
3. Collector



Resistance Value RB K Ohms	Resistance Value RBE K Ohms	hFE min Vce=10V IC=5mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 10,000
PNP								
47	47	80	UNR311300LCT-ND	.39	.33	.27	UNR311300LTR-ND	92.00/M
10	10	35	UNR311100LCT-ND	.40	.33	.27	UNR311100LTR-ND	93.00/M
22	22	60	UNR311200LCT-ND	.41	.34	.23	UNR311200LTR-ND	95.00/M
NPN								
47	47	80	UNR321300LCT-ND	.39	.33	.27	UNR321300LTR-ND	92.00/M
4.7	∞	160	UNR321600LCT-ND	.39	.33	.27	UNR321600LTR-ND	92.00/M
4.7	47	80	UNR321N00LCT-ND	.39	.33	.27	UNR321N00LTR-ND	92.00/M
47	∞	160	UNR321000LCT-ND	.40	.33	.27	UNR321000LTR-ND	93.00/M

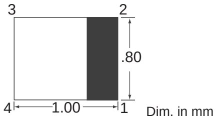
1008 Mold Leadless Type

Surface Mount with built-in-resistors for preset gains

VCEO= -50V/50V

IC= -100mA/100mA

PT=150mW



Resistance Value RB K Ohms	Resistance Value RBE K Ohms	hFE min Vce=10V IC=5mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 10,000
PNP								
10	10	35	UNRL11100ACT-ND	.69	.53	.40	UNRL11100ATR-ND	217.00/M
47	47	80	UNRL11300ACT-ND	.69	.53	.40	UNRL11300ATR-ND	217.00/M
10	∞	160	UNRL11500ACT-ND	.69	.53	.40	UNRL11500ATR-ND	217.00/M
NPN								
10	10	35	UNRL21100ACT-ND	.69	.53	.40	UNRL21100ATR-ND	217.00/M
47	47	80	UNRL21300ACT-ND	.69	.53	.40	UNRL21300ATR-ND	217.00/M
10	∞	160	UNRL21500ACT-ND	.69	.53	.40	UNRL21500ATR-ND	217.00/M

SS-Mini Flat (J-Type)

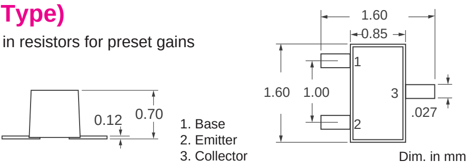
Surface Mount with built in resistors for preset gains

VCEO=50V/50V

IC=100mA/-100mA

PT=125mW

EIAJ: SC-81



Resistance Value RB K Ohms	Resistance Value RBE K Ohms	hFE min Vce=10V IC=5mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
PNP								
10	10	35	UNR9111J0LCT-ND	.40	.30	.21	UNR9111J0LTR-ND	79.00/M
22	22	60	UNR9112J0LCT-ND	.40	.30	.21	UNR9112J0LTR-ND	79.00/M
47	47	80	UNR9113J0LCT-ND	.40	.30	.21	UNR9113J0LTR-ND	79.00/M
10	47	80	UNR9114J0LCT-ND	.40	.30	.21	UNR9114J0LTR-ND	79.00/M
10	∞	160	UNR9115J0LCT-ND	.40	.30	.21	UNR9115J0LTR-ND	79.00/M
4.7	∞	160	UNR9116J0LCT-ND	.40	.30	.21	UNR9116J0LTR-ND	79.00/M
22	∞	160	UNR9117J0LCT-ND	.40	.30	.21	UNR9117J0LTR-ND	79.00/M
0.51	5.1	20	UNR9118J0LCT-ND	.40	.30	.21	UNR9118J0LTR-ND	79.00/M
1	10	30	UNR9119J0LCT-ND	.40	.30	.21	UNR9119J0LTR-ND	79.00/M
47	∞	160	UNR9110J0LCT-ND	.40	.30	.21	UNR9110J0LTR-ND	79.00/M
22	47	80	UNR911TJ0LCT-ND	.40	.30	.21	UNR911TJ0LTR-ND	79.00/M
47	22	60	UNR911EJ0LCT-ND	.40	.30	.21	UNR911EJ0LTR-ND	79.00/M
4.7	10	30	UNR911FJ0LCT-ND	.40	.30	.21	UNR911FJ0LTR-ND	79.00/M
2.2	10	30	UNR911HJ0LCT-ND	.40	.30	.21	UNR911HJ0LTR-ND	79.00/M
4.7	4.7	20	UNR911LJ0LCT-ND	.40	.30	.21	UNR911LJ0LTR-ND	79.00/M
4.7	47	80	UNR911NJ0LCT-ND	.40	.30	.21	UNR911NJ0LTR-ND	79.00/M
100	100	80	UNR911AJCT-ND	.40	.30	.21	UNR911AJ0LTR-ND	79.00/M
100	—	160	UNR911BJ0LCT-ND	.40	.30	.21	UNR911BJ0LTR-ND	79.00/M
2.2	47	80	UNR911MJ0LCT-ND	.40	.30	.21	UNR911MJ0LTR-ND	79.00/M
NPN								
10	10	35	UNR9211J0LCT-ND	.40	.30	.21	UNR9211J0LTR-ND	79.00/M
22	22	60	UNR9212J0LCT-ND	.40	.30	.21	UNR9212J0LTR-ND	79.00/M
47	47	80	UNR9213J0LCT-ND	.40	.30	.21	UNR9213J0LTR-ND	79.00/M
10	47	80	UNR9214J0LCT-ND	.40	.30	.21	UNR9214J0LTR-ND	79.00/M
10	∞	160	UNR9215J0LCT-ND	.40	.30	.21	UNR9215J0LTR-ND	79.00/M
4.7	∞	160	UNR9216J0LCT-ND	.40	.30	.21	UNR9216J0LTR-ND	79.00/M
22	∞	160	UNR9217J0LCT-ND	.40	.30	.21	UNR9217J0LTR-ND	79.00/M
0.51	5.1	20	UNR9218J0LCT-ND	.40	.30	.21	UNR9218J0LTR-ND	79.00/M
1	10	30	UNR9219J0LCT-ND	.40	.30	.21	UNR9219J0LTR-ND	79.00/M
47	∞	160	UNR9210J0LCT-ND	.40	.30	.21	UNR9210J0LTR-ND	79.00/M
22	47	80	UNR921MJ0LCT-ND	.40	.30	.21	UNR921MJ0LTR-ND	79.00/M
22	47	80	UNR921TJ0LCT-ND	.40	.30	.21	UNR921TJ0LTR-ND	79.00/M
47	10	30	UNR921DJ0LCT-ND	.40	.30	.21	UNR921DJ0LTR-ND	79.00/M
47	22	60	UNR921EJ0LCT-ND	.40	.30	.21	UNR921EJ0LTR-ND	79.00/M
4.7	10	30	UNR921FJ0LCT-ND	.40	.30	.21	UNR921FJ0LTR-ND	79.00/M
4.7	4.7	20	UNR921LJ0LCT-ND	.40	.30	.21	UNR921LJ0LTR-ND	79.00/M
100	100	80	UNR921AJ0LCT-ND	.40	.30	.21	UNR921AJ0LTR-ND	79.00/M
100	100	160	UNR921BJ0LCT-ND	.40	.30	.21	UNR921BJ0LTR-ND	79.00/M
2.2	2.2	6	UNR921NJ0LCT-ND	.40	.30	.21	UNR921NJ0LTR-ND	79.00/M
2.2	2.2	6	UNR921VJ0LCT-ND	.40	.30	.21	UNR921VJ0LTR-ND	79.00/M

Panasonic

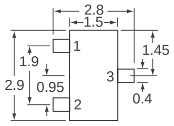
Small Signal Transistors

Mini, S-Mini, SS-Mini, Mini Power Type Package

Dim. in mm

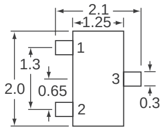
Mini Type

1. Base
2. Emitter
3. Collector



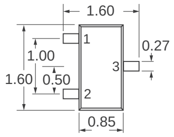
S-Mini Type

1. Base
2. Emitter
3. Collector



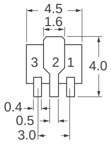
SS-Mini Flat J Type

1. Base
2. Emitter
3. Collector



Mini Power Type

1. Base
2. Collector
3. Emitter

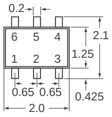


Application	Package	VCEO (V)	IC (mA)	hFE Min	hFE Max	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
PNP Type												
General Amp	Mini 3P	45	100	160	460	2SB0709A0LCT-ND	.26	.20	.14	2SB0709A0LTR-ND	3,000	52.00/M
General Amp	Mini 3P	25	500	85	340	2SB071000LCT-ND	.41	.33	.25	2SB071000LTR-ND	3,000	108.00/M
General Amp	Mini 3P	50	500	85	340	2SB0710A0LCT-ND	.41	.33	.25	2SB0710A0LTR-ND	3,000	108.00/M
General Amp	Mini 3P	45	100	160	260	2SB0709AQLCT-ND	.28	.22	.16	2SB0709AQLTR-ND	3,000	55.00/M
General Amp	Mini 3P	45	100	210	340	2SB0709ARLCT-ND	.28	.22	.16	2SB0709ARLTR-ND	3,000	55.00/M
General Amp	Mini 3P	45	100	290	460	2SB0709ASLCT-ND	.28	.22	.16	2SB0709ASLTR-ND	3,000	55.00/M
General Amp	Mini 3P	25	500	85	170	2SB07100QLCT-ND	.44	.37	.30	2SB07100QLTR-ND	3,000	116.00/M
General Amp	Mini 3P	25	500	120	240	2SB07100RLCT-ND	.44	.37	.30	2SB07100RLTR-ND	3,000	116.00/M
General Amp	Mini 3P	25	500	170	340	2SB07100SLCT-ND	.44	.37	.30	2SB07100SLTR-ND	3,000	116.00/M
General Amp	Mini 3P	50	500	85	170	2SB0710AQLCT-ND	.44	.37	.30	2SB0710AQLTR-ND	3,000	116.00/M
General Amp	Mini 3P	50	500	120	240	2SB0710ARLCT-ND	.44	.37	.30	2SB0710ARLTR-ND	3,000	116.00/M
General Amp	Mini 3P	50	500	170	340	2SB0710ASLCT-ND	.44	.37	.30	2SB0710ASLTR-ND	3,000	116.00/M
Low Noise Amp	Mini 3P	185	50	130	220	2SB0792ARLCT-ND	.38	.29	.20	2SB0792ARLTR-ND	3,000	76.00/M
Low Noise Amp	Mini 3P	185	50	185	330	2SB0792ASLCT-ND	.38	.29	.20	2SB0792ASLTR-ND	3,000	76.00/M
General Amp	S-Mini 3P	45	100	160	460	2SB1218A0LCT-ND	.38	.29	.20	2SB1218A0LTR-ND	3,000	76.00/M
General Amp	S-Mini 3P	25	500	85	340	2SB121900LCT-ND	.45	.36	.28	2SB121900LTR-ND	3,000	120.00/M
General Amp	S-Mini 3P	50	500	85	340	2SB1219A0LCT-ND	.45	.36	.28	2SB1219A0LTR-ND	3,000	120.00/M
General Amp	S-Mini 3P	45	100	160	260	2SB1218AQLCT-ND	.34	.26	.18	2SB1218AQLTR-ND	3,000	67.00/M
General Amp	S-Mini 3P	45	100	210	340	2SB1218ARLCT-ND	.34	.26	.18	2SB1218ARLTR-ND	3,000	67.00/M
General Amp	S-Mini 3P	45	100	290	460	2SB1218ASLCT-ND	.34	.26	.18	2SB1218ASLTR-ND	3,000	67.00/M
General Amp	S-Mini 3P	50	2000	120	240	2SB12190RLCT-ND	.40	.33	.25	2SB12190RLTR-ND	3,000	107.00/M
General Amp	SS-Mini(J)	50	100	180	390	2SB1462J0LCT-ND	.34	.27	.19	2SB1462J0LTR-ND	3,000	77.00/M
Low Freq. Amp	Mini-Pwr.	20	4000	120	315	2SB107300LCT-ND	.57	.43	.32	2SB107300LTR-ND	1,000	189.00
Low Freq. Amp	Mini-Pwr.	10	1000	200	800	2SB1537CT-ND	.52	.39	.30	—	—	—
Low Freq. Amp	Mini-Pwr.	120	500	90	155	2SB0789AQLCT-ND	.75	.57	.43	2SB0789AQLTR-ND	1,000	249.00
Low Freq. Amp	Mini-Pwr.	120	500	130	220	2SB0789ARLCT-ND	.75	.57	.43	2SB0789ARLTR-ND	1,000	249.00
Low Freq. Output Amp	Mini-Pwr.	50	2000	120	340	2SB144000LCT-ND	.72	.55	.41	2SB144000LTR-ND	1,000	240.00
Low Freq. Output Amp	Mini-Pwr.	10	1500	200	700	2SB158900LCT-ND	.52	.39	.30	2SB158900LTR-ND	1,000	172.00
Low Freq. Output Amp	Mini-Pwr.	50	1000	85	340	2SB0766A0LCT-ND	.52	.39	.30	2SB0766A0LTR-ND	1,000	172.00
Low Freq. Output Amp	Mini-Pwr.	120	500	90	220	2SB0789A0LCT-ND	.77	.58	.44	2SB0789A0LTR-ND	1,000	257.00
Low Freq. Output Amp	Mini-Pwr.	20	1000	130	280	2SB095600LCT-ND	.52	.39	.30	2SB095600LTR-ND	1,000	172.00
NPN Type												
Low VCE(sat)	Mini	20	300	500	1500	2SD1938FSLCT-ND	.36	.28	.20	2SD1938FSLTR-ND	3,000	81.00/M
Low VCE(sat)	Mini	20	300	800	2500	2SD1938FTLCT-ND	.36	.28	.20	2SD1938FTLTR-ND	3,000	81.00/M
General Amp	Mini 3P	50	100	160	460	2SD0601A0LCT-ND	.26	.20	.14	2SD0601A0LTR-ND	3,000	52.00/M
General Amp	Mini 3P	50	500	85	340	2SD0602A0LCT-ND	.45	.38	.31	2SD0602A0LTR-ND	3,000	121.00/M
General Amp	Mini 3P	50	100	160	260	2SD0601AQLCT-ND	.28	.22	.16	2SD0601AQLTR-ND	3,000	55.00/M
General Amp	Mini 3P	50	100	210	340	2SD0601ARLCT-ND	.28	.22	.16	2SD0601ARLTR-ND	3,000	55.00/M
General Amp	Mini 3P	50	100	290	460	2SD0601ASLCT-ND	.28	.22	.16	2SD0601ASLTR-ND	3,000	55.00/M
General Amp	Mini 3P	50	500	85	170	2SD0602AQLCT-ND	.40	.34	.27	2SD0602AQLTR-ND	3,000	108.00/M
General Amp	Mini 3P	50	500	120	240	2SD0602ARLCT-ND	.40	.34	.27	2SD0602ARLTR-ND	3,000	108.00/M
General Amp	Mini 3P	50	500	170	340	2SD0602ASLCT-ND	.40	.34	.27	2SD0602ASLTR-ND	3,000	108.00/M
High Freq. Amp	Mini 3P	20	50	25	250	2SC248000LCT-ND	.41	.34	.23	2SC248000LTR-ND	3,000	108.00/M
Low Freq. Amp/High Gain	Mini 3P	100	20	400	800	2SD11490RLCT-ND	.34	.26	.18	2SD11490RLTR-ND	3,000	67.00/M
Low Freq. Amp/High Gain	Mini 3P	100	20	600	1200	2SD11490SLCT-ND	.34	.26	.18	2SD11490SLTR-ND	3,000	67.00/M
Low Volt Amp	Mini 3P	20	500	200	800	2SD132800LCT-ND	.40	.32	.25	2SD132800LTR-ND	3,000	106.00/M
Low Volt Amp	Mini 3P	20	500	200	350	2SD13280RLCT-ND	.43	.36	.29	2SD13280RLTR-ND	3,000	115.00/M
Low Volt Amp	Mini 3P	20	500	300	500	2SD13280SLCT-ND	.43	.36	.29	2SD13280SLTR-ND	3,000	115.00/M
Low Volt Amp	Mini 3P	20	500	400	800	2SD13280TLCT-ND	.47	.38	.26	2SD13280TLTR-ND	3,000	115.00/M
General Amp	S-Mini 3P	50	100	160	460	2SD1819A0LCT-ND	.38	.31	.22	2SD1819A0LTR-ND	3,000	100.00/M
General Amp	S-Mini 3P	25	500	85	340	2SD1820CT-ND	.45	.36	.27	2SD1820TR-ND	3,000	119.00/M
General Amp	S-Mini 3P	50	500	85	340	2SD1820A0LCT-ND	.45	.36	.27	2SD1820A0LTR-ND	3,000	119.00/M
General Amp	S-Mini 3P	50	100	160	260	2SD1819AQLCT-ND	.42	.33	.24	2SD1819AQLTR-ND	3,000	95.00/M
General Amp	S-Mini 3P	50	100	210	340	2SD1819ARLCT-ND	.42	.33	.24	2SD1819ARLTR-ND	3,000	95.00/M
General Amp	S-Mini 3P	50	100	290	460	2SD1819ASLCT-ND	.42	.33	.24	2SD1819ASLTR-ND	3,000	95.00/M
General Amp	S-Mini 3P	50	500	120	240	2SD1820ARLCT-ND	.48	.40	.32	2SD1820ARLTR-ND	3,000	127.00/M
High Freq. Amp	S-Mini 3P	20	50	25	250	2SC39320TLCT-ND	.41	.33	.25	2SC39320TLTR-ND	3,000	109.00/M
Low Freq. Amp/High Gain	S-Mini 3P	100	20	400	800	2SD18240RLCT-ND	.35	.26	.19	2SD18240RLTR-ND	3,000	69.00/M
Low Freq. Amp/High Gain	S-Mini 3P	100	20	600	1200	2SD18240SLCT-ND	.35	.26	.19	2SD18240SLTR-ND	3,000	69.00/M
Low VCE(sat)	S-Mini 3P	20	500	200	800	2SD262300LCT-ND	.45	.38	.31	2SD262300LTR-ND	3,000	120.00/M
General Amp	SS-Mini(J)	50	100	160	460	2SD2216J0LCT-ND	.33	.27	.19	2SD2216J0LTR-ND	3,000	75.00/M
High Freq. Amp	SS-Mini(J)	20	15	40	260	2SC4627J0LCT-ND	.42	.34	.25	2SC4627J0LTR-ND	3,000	111.00/M
UHF Low Noise Amp	Mini-Pwr.	10	80	80	250	2SC501900LCT-ND	.72	.55	.41	2SC501900LTR-ND	1,000	240.00
Med. Output Pwr. Amp	Mini-Pwr.	20	1000	90	360	2SD128000LCT-ND	.77	.58	.44	2SD128000LTR-ND	1,000	257.00
Low Freq. Output Amp	Mini-Pwr.	50	3000	120	340	2SD218500LCT-ND	.67	.51	.38	2SD218500LTR-ND	1,000	223.00
Low Freq. Output Amp	Mini-Pwr.	10	1500	200	700	2SD244100LCT-ND	.52	.39	.30	2SD244100LTR-ND	1,000	172.00
Low Freq. Output Amp	Mini-Pwr.	20	500	200	800	2SD221000LCT-ND	.57	.46	.35	2SD221000LTR-ND	1,000	159.00
Low Freq. Output Amp	Mini-Pwr.	50	1000	85	340	2SD0874A0LCT-ND	.59	.48	.36	2SD0874A0LTR-ND	1,000	166.00
Low Freq. Output Amp	Mini-Pwr.	120	500	90	220	2SD0968A0LCT-ND	.98	.74	.56	2SD0968A0LTR-ND	1,000	326.00

GaAs MMIC SPDT Switches

S-Mini Type

1. Vctrl 1
2. In
3. Vctrl 2
4. Out 2
5. Gnd
6. Out 1



Insertion Loss (Typ.) 887MHz~925MHz‡ 1920MHz~2170MHz§ In-Out 1	In-Out 2	Isolation (Typ.) 887MHz~925MHz‡ 1920MHz~2170MHz§ In-Out 1 (In-Out 2 On)	In-Out 2 (In Out 1 On)	VSWR (Typ.) 887MHz~925MHz‡ 1920MHz~2170MHz§ In-Out 1	In-Out 2	Ictrl (Typ.) uA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing * 3,000	Panasonic Part No.
0.20dB	0.20dB	23dB	23dB	1.05dB	1.05dB	10	GN04017N0LCT-ND	2.14	1.72	1.29	1095.00/M	GN04017N0L
0.25dB	0.25dB	23dB	23dB	1.10dB	1.10dB	1	GN04022N0LCT-ND	2.14	1.72	1.29	1095.00/M	GN04022N0L

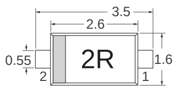
* For Tape & Reel Part No., change CT to TR. ‡ MHz Applies to Mfg. P/N GN04017N0L § MHz Applies to Mfg. P/N GN04022N0L

Panasonic

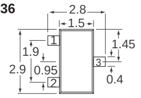
Schottky Barrier Diodes – Silicon Epitaxial Planar Type

Dim. in mm

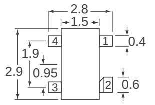
Mini Type (2-pin)



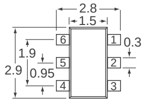
Mini Type (3-pin)
JEDEC: TO-236
EIAJ: SC-59



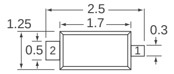
Mini Type (4-pin)



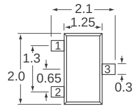
Mini Type (6-pin)



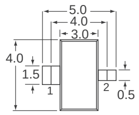
S-Mini Type (2-pin)



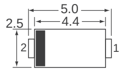
S-Mini Type (3-pin) EIAJ: SC-70



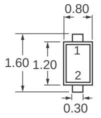
Mini-Power Type (2-pin)



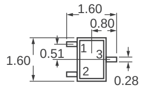
New Mini-Power Type (2-pin)



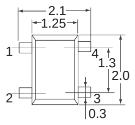
SS-Mini Type (2-pin)



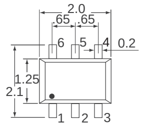
SS-Mini Type (3-pin)



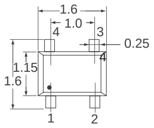
S-Mini Type (4-pin) Mold



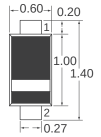
Mini Type (6-pin) Mold



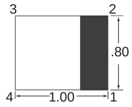
SS-Mini Type (4-pin) Mold



SSS-Mini Type (2-pin)



1008 Mold Leadless Type (4-pin)



NEW! **SSS-Mini Type (3-pin)**

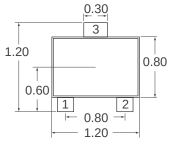


Fig. 1

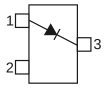


Fig. 2

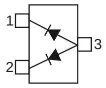


Fig. 3

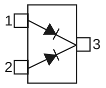


Fig. 4

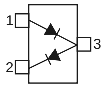


Fig. 5

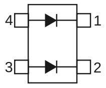


Fig. 6

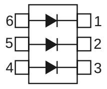


Fig. 7

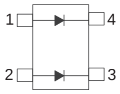


Fig. 8

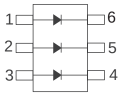


Fig. 9

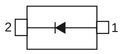


Fig. 10

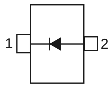


Fig. 11

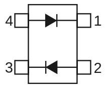


Fig. 12

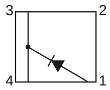


Fig.	Description	VR (V)	IF (mA)	VF		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
				(V)	@mA		1	10	100		Size	Pricing
						Mini Type 2-Pin						
9	Single	20	1000	0.45	1	MA2YD1500LCT-ND	.55	.42	.31	MA2YD1500LTR-ND	3,000	179.00/M
		100	300	0.58	300	MA2YD1700LCT-ND	.53	.40	.31	MA2YD1700LTR-ND	3,000	174.00/M
		15	1000	0.40	1000	MA2YD2100LCT-ND	.50	.38	.29	MA2YD2100LTR-ND	3,000	164.00/M
		25	1000	0.47	500	MA2YD2300LCT-ND	.53	.40	.31	MA2YD2300LTR-ND	3,000	174.00/M
		60	800	0.51	800	MA2YD2600LCT-ND *NEW!*	.53	.40	.30	MA2YD2600LTR-ND *NEW!*	3,000	173.00/M
		30	1500	0.34	500	MA22D2800LCT-ND *NEW!*	.62	.47	.35	MA22D2800LTR-ND *NEW!*	3,000	201.00/M
						Mini Type 3-Pin						
1	Single	30	700	0.55	700	MA3X70100LCT-ND	.47	.38	.29	MA3X70100LTR-ND	3,000	125.00/M
		15	30	0.40	1	MA3X70400LCT-ND	.44	.36	.27	MA3X70400LTR-ND	3,000	117.00/M
		30	30	0.40	1	MA3X704A0LCT-ND	.44	.36	.27	MA3X704A0LTR-ND	3,000	117.00/M
		30	30	0.30	1	MA3X71700LCT-ND	.52	.42	.32	MA3X71700LTR-ND	3,000	137.00/M
		40	500	0.55	500	MA3X72000LCT-ND	.58	.47	.35	MA3X72000LTR-ND	3,000	155.00/M
		30	200	0.55	200	MA3X72100LCT-ND	.59	.48	.36	MA3X72100LTR-ND	3,000	158.00/M
		50	200	0.55	200	MA3X72700LCT-ND	.58	.44	.33	MA3X72700LTR-ND	3,000	188.00/M
		20	500	0.50	500	MA3X74800LCT-ND	.59	.48	.36	MA3X74800LTR-ND	3,000	158.00/M
		30	100	0.55	100	MA3X78600LCT-ND	.50	.40	.30	MA3X78600LTR-ND	3,000	132.00/M
		50	100	0.55	100	MA3X78700LCT-ND	.44	.36	.27	MA3X78700LTR-ND	3,000	118.00/M
		20	1000	0.45	1	MA3XD1100LCT-ND	.59	.48	.36	MA3XD1100LTR-ND	3,000	157.00/M
		20	1000	0.45	1	MA3XD1500LCT-ND	.52	.39	.30	MA3XD1500LTR-ND	3,000	169.00/M
		100	300	0.58	300	MA3XD1700LCT-ND	.53	.40	.31	MA3XD1700LTR-ND	3,000	174.00/M
		15	1000	0.40	500	MA3XD2100LCT-ND	.50	.38	.29	MA3XD2100LTR-ND	3,000	164.00/M
		60	200	0.65	200	MA3X78800LCT-ND	.50	.38	.29	MA3X78800LTR-ND	3,000	163.00/M
2	Dual Com Anode	30	30	0.40	1	MA3X704D0LCT-ND	.70	.53	.40	MA3X704D0LTR-ND	3,000	228.00/M
			110/150	0.30	1	MA3X717D0LCT-ND	.91	.68	.51	MA3X717D0LTR-ND	3,000	294.00/M
			130/200	0.55	130/200	MA3X721D0LCT-ND	.84	.64	.48	MA3X721D0LTR-ND	3,000	274.00/M
			200/300	0.55	200/300	MA3X786D0LCT-ND	.65	.49	.37	MA3X786D0LTR-ND	3,000	211.00/M
3	Dual Com Cathode	30	30	0.40	1	MA3X704E0LCT-ND	.70	.53	.40	MA3X704E0LTR-ND	3,000	228.00/M
			110/150	0.30	1	MA3X717E0LCT-ND	.91	.68	.51	MA3X717E0LTR-ND	3,000	294.00/M
			130/200	0.55	130/200	MA3X721E0LCT-ND	.84	.64	.48	MA3X721E0LTR-ND	3,000	274.00/M
			200/300	0.55	200/300	MA3X786E0LCT-ND	.65	.49	.37	MA3X786E0LTR-ND	3,000	211.00/M
4	Dual Series	30	20/30	0.30	1	MA3X71500LCT-ND	.75	.57	.43	MA3X71500LTR-ND	3,000	245.00/M
			20/30	0.40	1	MA3X71600LCT-ND	.61	.46	.35	MA3X71600LTR-ND	3,000	198.00/M
			220/300	0.55	220/300	MA3X74000LCT-ND	.94	.71	.53	MA3X74000LTR-ND	3,000	305.00/M
						Mini Type 4-Pin						
5	Dual	50	150/200	0.55	150/200	MA4X74600LCT-ND	.80	.60	.45	MA4X74600LTR-ND	3,000	259.00/M
		30	20/30	0.40	1	MA4X71300LCT-ND	.61	.47	.35	MA4X71300LTR-ND	3,000	200.00/M
		30	150	0.55	150	MA4X72400LCT-ND	.69	.52	.39	MA4X72400LTR-ND	3,000	224.00/M
		50	70/100	0.55	70/100	MA4X79600LCT-ND	.64	.48	.36	MA4X79600LTR-ND	3,000	207.00/M
9	Dual	30	150/200	0.55	150/200	MA4X72600LCT-ND	.93	.71	.53	MA4X72600LTR-ND	3,000	304.00/M
11	Dual	30	20/30	0.40	1	MA4X71400LCT-ND	.75	.56	.42	MA4X71400LTR-ND	3,000	243.00/M
						Mini Type 6-Pin						
6	Triple	30	30	0.40	1	MA6X71800LCT-ND	.88	.74	.59	MA6X71800LTR-ND	3,000	381.00/M
						S-Mini Type 2-Pin						
9	Single	20	200	0.47	1	MA2SD1900LCT-ND	.50	.40	.30	MA2SD1900LTR-ND	3,000	132.00/M
		40	500	0.55	500	MA2Z72000LCT-ND	.48	.39	.29	MA2Z72000LTR-ND	3,000	128.00/M

(Continued)

Panasonic Schottky Barrier Diodes – Silicon Epitaxial Planar Type *(Cont.)*

Fig.	Description	VR (V)	IF (mA)	VF		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
				(V)	@mA		1	10	100		Size	Pricing
9	Single	20	300	0.40	300	MA2Z74800LCT-ND	.41	.33	.25	MA2Z74800LTR-ND	3,000	108.00/M
		20	500	0.40	10	MA2ZD0200LCT-ND	.54	.44	.33	MA2ZD0200LTR-ND	3,000	144.00/M
		20	100	0.27	5	MA2ZD1400LCT-ND	.44	.38	.30	MA2ZD1400LTR-ND	3,000	119.00/M
		20	500	0.42	500	MA2ZD1800LCT-ND	.41	.33	.25	MA2ZD1800LTR-ND	3,000	108.00/M
		30	30	0.40	1	MA2J72800LCT-ND	.48	.40	.32	MA2J72800LTR-ND	3,000	128.00/M
		30	200	0.55	200	MA2J72900LCT-ND	.57	.46	.35	MA2J72900LTR-ND	3,000	151.00/M
		30	30	0.30	1	MA2J73200LCT-ND	.44	.36	.27	MA2J73200LTR-ND	3,000	118.00/M
		30	100	0.55	100	MA2Z78400LCT-ND	.47	.40	.32	MA2Z78400LTR-ND	3,000	125.00/M
		50	100	0.55	100	MA2Z78500LCT-ND	.45	.37	.28	MA2Z78500LTR-ND	3,000	121.00/M
S-Mini Type 3-Pin												
1	Single	40	500	0.55	500	MA3J70000LCT-ND	.55	.45	.34	MA3J70000LTR-ND	3,000	147.00/M
		20	500	0.55	500	MA3J70200LCT-ND	.55	.44	.33	MA3J70200LTR-ND	3,000	146.00/M
		30	30	0.40	1	MA3J74100LCT-ND	.48	.39	.29	MA3J74100LTR-ND	3,000	128.00/M
		30	200	0.55	200	MA3J74400LCT-ND	.57	.43	.32	MA3J74400LTR-ND	3,000	184.00/M
		30	30	0.30	1	MA3J74500LCT-ND	.66	.50	.38	MA3J74500LTR-ND	3,000	215.00/M
		20	700	0.45	700	MA3ZD1200LCT-ND	.58	.47	.35	MA3ZD1200LTR-ND	3,000	154.00/M
2	Dual Com Anode	30	20/30	0.40	1	MA3J741D0LCT-ND	.61	.46	.35	MA3J741D0LTR-ND	3,000	199.00/M
			20/30	0.30	1	MA3J745D0LCT-ND	.62	.47	.36	MA3J745D0LTR-ND	3,000	203.00/M
			70/100	0.55	70/100	MA3Z792D0LCT-ND	.51	.41	.31	MA3Z792D0LTR-ND	3,000	136.00/M
3	Dual Com Cathode	30	20/30	0.40	1	MA3J741E0LCT-ND	.61	.46	.35	MA3J741E0LTR-ND	3,000	199.00/M
			20/30	0.30	1	MA3J745E0LCT-ND	.62	.47	.36	MA3J745E0LTR-ND	3,000	203.00/M
			70/100	0.55	70/100	MA3Z792E0LCT-ND	.51	.41	.31	MA3Z792E0LTR-ND	3,000	136.00/M
4	Dual Series	30	20/30	0.40	1	MA3J74200LCT-ND	.64	.48	.36	MA3J74200LTR-ND	3,000	207.00/M
			70/100	0.55	70/100	MA3Z79300LCT-ND	.62	.47	.35	MA3Z79300LTR-ND	3,000	201.00/M
S-Mini Mold Type 4-Pin												
7	Dual	30	20/30	0.40	1	MA4Z71300LCT-ND	.58	.47	.35	MA4Z71300LTR-ND	3,000	154.00/M
		20	75/100	0.27	5	MA4ZD1400LCT-ND	.52	.42	.32	MA4ZD1400LTR-ND	3,000	138.00/M
		45	75/100	0.60	75/100	MA4ZD0300LCT-ND	.50	.38	.29	MA4ZD0300LTR-ND	3,000	164.00/M
S-Mini Mold Type 6-Pin												
8	Triple	30	30	0.40	1	MA6Z71800LCT-ND	.68	.52	.39	MA6Z71800LTR-ND	3,000	222.00/M
Mini-Power Type 2-Pin												
10	Single	40	1000	0.55	1000	MA701ACT-ND	.84	.64	.48	—	—	—
New Mini-Power Type 2-Pin												
9	Single	30	1500	0.37	1000	MA2Q70500LCT-ND	.84	.64	.48	MA2Q70500LTR-ND	1,500	280.00/M
		30	1000	0.50	1000	MA2Q73500LCT-ND	.85	.64	.48	MA2Q73500LTR-ND	1,500	282.00/M
		40	1000	0.55	1000	MA2Q73600LCT-ND	.70	.53	.40	MA2Q73600LTR-ND	1,500	234.00/M
		30	1500	0.50	2000	MA2Q73700LCT-ND	.99	.75	.56	MA2Q73700LTR-ND	1,500	329.00/M
		40	1500	0.55	2000	MA2Q73800LCT-ND	.73	.55	.42	MA2Q73800LTR-ND	1,500	243.00/M
		90	700	0.80	700	MA2Q73900LCT-ND	.88	.67	.50	MA2Q73900LTR-ND	1,500	293.00/M
SS-Mini Type 2-Pin												
9	Single	30	30	0.40	1	MA2S72800LCT-ND	.46	.39	.31	MA2S72800LTR-ND	3,000	124.00/M
		30	100	0.55	100	MA2S78400LCT-ND	.52	.42	.31	MA2S78400LTR-ND	3,000	137.00/M
		20	200	0.47	1	MA2SD1000LCT-ND	.52	.42	.31	MA2SD1000LTR-ND	3,000	137.00/M
		20	200	0.58	200	MA2SD2400LCT-ND	.48	.39	.29	MA2SD2400LTR-ND	3,000	128.00/M
		15	200	0.39	200	MA2SD2500LCT-ND	.48	.39	.29	MA2SD2500LTR-ND	3,000	128.00/M
		20	35	0.41	1	MA2SE0100LCT-ND *NEW!*	.55	.45	.34	MA2SE0100LTR-ND *NEW!*	3,000	147.00/M
SS-Mini Type 3-Pin												
1	Single	30	30	0.40	1	MA3S78100LCT-ND	.52	.42	.31	MA3S78100LTR-ND	3,000	137.00/M
			30	0.30	1	MA3S79500LCT-ND	.52	.42	.31	MA3S79500LTR-ND	3,000	137.00/M
2	Dual Com Anode	30	30	0.40	1	MA3S781D0LCT-ND	.62	.47	.35	MA3S781D0LTR-ND	3,000	201.00/M
			30	0.30	1	MA3S795D0LCT-ND	.62	.47	.35	MA3S795D0LTR-ND	3,000	201.00/M
3	Dual Com Cathode	30	30	0.40	1	MA3S781E0LCT-ND	.62	.47	.35	MA3S781E0LTR-ND	3,000	201.00/M
			20	0.30	1	MA3S795E0LCT-ND	.62	.47	.35	MA3S795E0LTR-ND	3,000	201.00/M
4	Dual Series	20	25/35	0.40	1	MA3SE0200LCT-ND	.71	.54	.41	MA3SE0200LTR-ND	3,000	231.00/M
SS-Mini Type 4-Pin												
7	Dual	30	20/30	0.35	1	MA4SD0100LCT-ND	.53	.43	.33	MA4SD0100LTR-ND	3,000	142.00/M
SSS-Mini Type 2-Pin												
9	Single	30	30	0.4	1	MA2772800LCT-ND	.42	.34	.26	MA2772800LTR-ND	10,000	105.00/M
		100	100	0.55	100	MA2778400LCT-ND	.50	.40	.30	MA2778400LTR-ND	10,000	124.00/M
		20	100	0.38	10	MA27D2700LCT-ND *NEW!*	.59	.48	.36	MA27D2700LTR-ND *NEW!*	10,000	147.00/M
NEW! SSS-Mini Type 3-Pin NEW!												
3	Dual Com Cathode	30	20	0.3	1	MAS3795E0LCT-ND	.65	.49	.37	MAS3795E0LTR-ND	10,000	203.00/M
1008 Mold Leadless Type 4-Pin												
12	Single	30	30	0.40	1	MA4L72800ACT-ND	.47	.38	.29	MA4L72800ATR-ND	10,000	117.00/M
			100	0.55	100	MA4L78400ACT-ND	.55	.45	.34	MA4L78400ATR-ND	10,000	138.00/M

NEW! Pin Diodes – Silicon Epitaxial Planar Type

Fig.	Descrip-tion	VR (V)	IF (mA)	VF		Ct (pF)	rf (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
				(V)	@mA				1	10	100		Size	Pricing
S-Mini Type 2-Pin														
1	Single	60	100	1.0	10	0.5	2.0	MA2JP0200LCT-ND	.58	.46	.35	MA2JP0200LTR-ND	3,000	153.00/M
SS-Mini Type 2-Pin														
2	Single	60	100	1.0	10	0.8	1.0	MA2SP0100LCT-ND	.59	.48	.36	MA2SP0100LTR-ND	3,000	157.00/M
						0.5	2.0	MA2SP0200LCT-ND	.59	.48	.36	MA2SP0200LTR-ND	3,000	157.00/M
SSS-Mini Type 2-Pin														
3	Single	60	100	1.0	10	0.8	1.0	MA27P0100LCT-ND	.53	.40	.30	MA27P0100LTR-ND	10,000	166.00/M
						0.5	2.0	MA27P0200LCT-ND	.53	.40	.30	MA27P0200LTR-ND	10,000	166.00/M

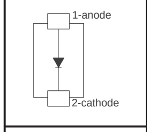


Fig. 1

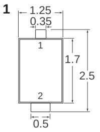


Fig. 2

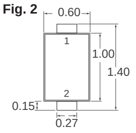
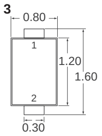


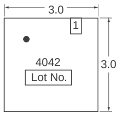
Fig. 3



Panasonic®

NEW! GaAs MMIC SP3T Switches

Pin Connection		
1 Gnd	5 GPS-Rx	9 Vctrl2
2 Ant	6 Gnd	10 Gnd
3 Gnd	7 Gnd	11 PCS-Tx/Rx
4 Vctrl3	8 CDMA-Tx/Rx	12 Vctrl1

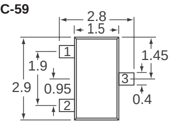


CDMA 1 (MHz)	PCS 2 (MHz)	GPS 3 (MHz)	PD mW	Vctrl(H)-Vctrl(L) (V)	Pin (CDMA, PCS) (dBm)	Pin (GPS) (dBm)	Topr (C°)	Tstg (C°)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
824 - 894	1850 - 1990	1574 - 1577	150	+5	35	20	-30 - +90	-40 - +120	GN04042N0LCT-ND	3.10	2.48	1.93	GN04042N0LTR-ND	1755.00/M

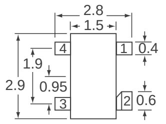
Switching Diodes – Silicon Epitaxial Planar Type

Dim. in mm

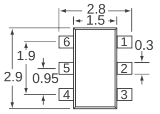
Mini Type (3-pin)
JEDEC: TO-236
EIAJ: SC-59



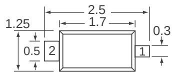
Mini Type (4-pin)



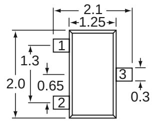
Mini Type (6-pin)



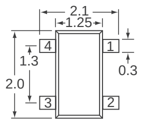
S-Mini Type (2-pin)



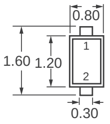
S-Mini Type (3-pin)
EIAJ: SC-70



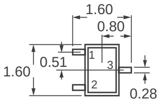
S-Mini Type (4-pin)



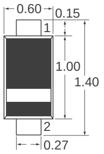
SS-Mini Type (2-pin)



SS-Mini Type (3-pin)



SSS-Mini Type (2-pin)



1008 Mold Leadless (4-pin)

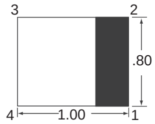


Fig. 1

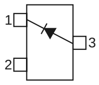


Fig. 2

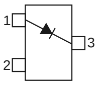


Fig. 3

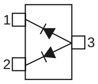


Fig. 4

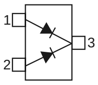


Fig. 5

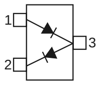


Fig. 6

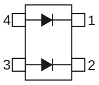


Fig. 7

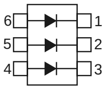


Fig. 8

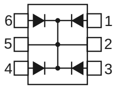


Fig. 9

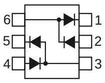


Fig. 10

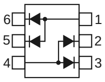


Fig. 11

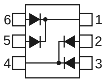


Fig. 12

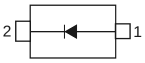


Fig. 13

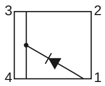
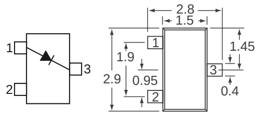


Fig.	Package	Description	VR (v)	IF (mA)	IR (uA)	trr (ns)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	Mini 3P	Single	80	100	0.1	3	MA3X152A0LCT-ND	.40	.30	.21	MA3X152A0LTR-ND	3,000	80.00/M
2	Mini 3P	Single	80	100	0.1	3	MA3X152K0LCT-ND	.40	.30	.21	MA3X152K0LTR-ND	3,000	80.00/M
3	Mini 3P	Dual Com Anode	80	100	0.1	10	MA3X152D0LCT-ND	.37	.30	.21	MA3X152D0LTR-ND	3,000	84.00/M
4	Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3X152E0LCT-ND	.37	.30	.21	MA3X152E0LTR-ND	3,000	84.00/M
5	Mini 3P	Dual Series	80	65	0.1	150/9	MA3X153A0LCT-ND	.37	.30	.21	MA3X153A0LTR-ND	3,000	96.00/M
2	Mini 3P	Single	200	100	1	–	MA3X15800LCT-ND	.53	.43	.32	MA3X15800LTR-ND	3,000	141.00/M
5	Mini 3P	Dual Series	40	75	0.01	100	MA3X19800LCT-ND	.40	.33	.23	MA3X19800LTR-ND	3,000	104.00/M
2	Mini 3P	Single	200	100	1	60	MA3X19900LCT-ND	.49	.37	.28	MA3X19900LTR-ND	3,000	160.00/M
6	Mini 4P	Dual	80	75	0.1	3	MA4X159A0LCT-ND	.48	.39	.29	MA4X159A0LTR-ND	3,000	127.00/M
6	Mini 4P	Dual	200	100	1	–	MA4X17400LCT-ND	.67	.51	.38	MA4X17400LTR-ND	3,000	219.00/M
7	Mini 6P	Triple	80	100	0.1	3	MA6X12100LCT-ND	.51	.41	.31	MA6X12100LTR-ND	3,000	135.00/M
8	Mini 6P	Quad	80	100	0.1	3	MA6X12400LCT-ND	.70	.53	.40	MA6X12400LTR-ND	3,000	229.00/M
9	Mini 6P	Quad	40	100	0.1	150/9	MA6X12500LCT-ND	.73	.55	.42	MA6X12500LTR-ND	3,000	238.00/M
10	Mini 6P	Quad	80	100	0.1	10	MA6X12700LCT-ND	.46	.37	.28	MA6X12700LTR-ND	3,000	122.00/M
11	Mini 6P	Quad	80	100	0.1	3	MA6X12800LCT-ND	.45	.36	.27	MA6X12800LTR-ND	3,000	119.00/M
12	S-Mini 2P	Single	80	100	0.1	3	MA2J11100LCT-ND	.35	.27	.19	MA2J11100LTR-ND	3,000	70.00/M
12	S-Mini 2P	Single	40	200	0.5	10	MA2J11200LCT-ND	.44	.36	.27	MA2J11200LTR-ND	3,000	117.00/M
12	S-Mini 2P	Single	80	200	0.5	10	MA2J11300LCT-ND	.41	.34	.23	MA2J11300LTR-ND	3,000	108.00/M
12	S-Mini 2P	Single	150	200	0.2	–	MA2J11400LCT-ND	.62	.47	.35	MA2J11400LTR-ND	3,000	201.00/M
12	S-Mini 2P	Single	200	200	0.2	–	MA2J11500LCT-ND	.59	.45	.34	MA2J11500LTR-ND	3,000	192.00/M
12	S-Mini 2P	Single	40	100	0.01	100	MA2J11600LCT-ND	.45	.37	.28	MA2J11600LTR-ND	3,000	120.00/M
1	S-Mini 3P	Single	80	100	0.1	3	MA3J142A0LCT-ND	.34	.27	.19	MA3J142A0LTR-ND	3,000	76.00/M
2	S-Mini 3P	Single	80	100	0.1	3	MA3J142K0LCT-ND	.34	.27	.19	MA3J142K0LTR-ND	3,000	76.00/M
3	S-Mini 3P	Dual Com Anode	80	100	0.1	10	MA3J142D0LCT-ND	.36	.30	.21	MA3J142D0LTR-ND	3,000	95.00/M
4	S-Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3J142E0LCT-ND	.36	.30	.21	MA3J142E0LTR-ND	3,000	95.00/M
5	S-Mini 3P	Dual Series	40	65	0.1	150/9	MA3J14300LCT-ND	.39	.32	.22	MA3J14300LTR-ND	3,000	102.00/M
5	S-Mini 3P	Dual Series	80	65	0.1	150/9	MA3J143A0LCT-ND	.39	.32	.22	MA3J143A0LTR-ND	3,000	102.00/M
5	S-Mini 3P	Dual Series	80	65	0.1	3	MA3J14700LCT-ND	.44	.36	.27	MA3J14700LTR-ND	3,000	118.00/M
6	S-Mini 4P	Dual	80	75	0.1	3	MA4Z15900LCT-ND	.58	.47	.35	MA4Z15900LTR-ND	3,000	155.00/M
12	SS-Mini 2P	Single	80	100	0.1	3	MA2S11100LCT-ND	.36	.29	.20	MA2S11100LTR-ND	3,000	81.00/M
1	SS-Mini 3P	Single	80	100	0.1	3	MA3S132A0LCT-ND	.36	.29	.20	MA3S132A0LTR-ND	3,000	81.00/M
2	SS-Mini 3P	Single	80	100	0.1	3	MA3S132K0LCT-ND	.36	.29	.20	MA3S132K0LTR-ND	3,000	81.00/M
3	SS-Mini 3P	Dual Com Anode	80	100	0.1	10	MA3S132D0LCT-ND	.38	.31	.21	MA3S132D0LTR-ND	3,000	99.00/M
4	SS-Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3S132E0LCT-ND	.38	.31	.21	MA3S132E0LTR-ND	3,000	99.00/M
5	SS-Mini 3P	Dual Series	80	65	0.1	150/9	MA3S13300LCT-ND	.42	.34	.26	MA3S13300LTR-ND	3,000	111.00/M
5	SS-Mini 3P	Dual Series	80	65	0.1	3	MA3S13700LCT-ND	.42	.34	.26	MA3S13700LTR-ND	3,000	111.00/M
12	SSS-Mini 2P	Single	80	100	0.1	3	MA2711100LCT-ND	.41	.35	.28	MA2711100LTR-ND	10,000	97.00/M
13	1008 Mold Leadless 4P	Single	80	100	0.1	3	MA4L11100ACT-ND	.46	.39	.31	MA4L11100ATR-ND	10,000	107.00/M

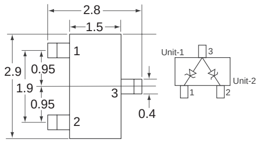
Panasonic® Zener Diodes Silicon Planar Type

Zener Voltage VZ			IZ (mA)	RZ (max.) (Ohms)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
Min.	Nom.	Max.				1	10	100		Size	Pricing
Mini Type Package / MA3000 Series - 200mW											
2.28	2.40	2.60	5	100	MAZ302400LCT-ND	.37	.31	.21	MAZ302400LTR-ND	3,000	98.00/M
2.50	2.70	2.90	5	110	MAZ30270HLCT-ND	.37	.31	.21	MAZ30270HLTR-ND	3,000	98.00/M
2.80	3.00	3.20	5	120	MAZ30300HLCT-ND	.37	.31	.21	MAZ30300HLTR-ND	3,000	98.00/M
3.10	3.30	3.50	5	130	MAZ30330HLCT-ND	.37	.31	.21	MAZ30330HLTR-ND	3,000	98.00/M
3.40	3.60	3.80	5	130	MAZ30360HLCT-ND	.37	.31	.21	MAZ30360HLTR-ND	3,000	98.00/M
3.70	3.90	4.10	5	130	MAZ30390HLCT-ND	.37	.31	.21	MAZ30390HLTR-ND	3,000	98.00/M
4.00	4.30	4.60	5	130	MAZ30430MLCT-ND	.37	.31	.21	MAZ30430MLTR-ND	3,000	98.00/M
4.40	4.70	5.00	5	80	MAZ30470MLCT-ND	.37	.31	.21	MAZ30470MLTR-ND	3,000	98.00/M
4.80	5.10	5.40	5	60	MAZ30510MLCT-ND	.37	.31	.21	MAZ30510MLTR-ND	3,000	98.00/M
5.30	5.60	6.00	5	40	MAZ30560MLCT-ND	.37	.31	.21	MAZ30560MLTR-ND	3,000	98.00/M
5.80	6.20	6.60	5	20	MAZ30620MLCT-ND	.37	.31	.21	MAZ30620MLTR-ND	3,000	98.00/M
6.40	6.80	7.20	5	15	MAZ30680MLCT-ND	.37	.31	.21	MAZ30680MLTR-ND	3,000	98.00/M
7.00	7.50	7.90	5	15	MAZ30750MLCT-ND	.37	.31	.21	MAZ30750MLTR-ND	3,000	98.00/M
7.70	8.20	8.70	5	15	MAZ30820MLCT-ND	.37	.31	.21	MAZ30820MLTR-ND	3,000	98.00/M
8.50	9.10	9.60	5	15	MAZ30910MLCT-ND	.37	.31	.21	MAZ30910MLTR-ND	3,000	98.00/M
9.40	10.00	10.60	5	20	MAZ31000MLCT-ND	.37	.31	.21	MAZ31000MLTR-ND	3,000	98.00/M
10.40	11.00	11.60	5	20	MAZ31100MLCT-ND	.37	.31	.21	MAZ31100MLTR-ND	3,000	98.00/M
11.40	12.00	12.70	5	25	MAZ31200MLCT-ND	.37	.31	.21	MAZ31200MLTR-ND	3,000	98.00/M
12.40	13.00	14.10	5	30	MAZ31300MLCT-ND	.37	.31	.21	MAZ31300MLTR-ND	3,000	98.00/M
13.65	14.00	14.35	5	30	MAZ31400MLCT-ND	.37	.31	.21	MAZ31400MLTR-ND	3,000	98.00/M
13.90	15.00	15.60	5	30	MAZ31500MLCT-ND	.37	.31	.21	MAZ31500MLTR-ND	3,000	98.00/M
15.30	16.00	17.10	5	40	MAZ31600MLCT-ND	.37	.31	.21	MAZ31600MLTR-ND	3,000	98.00/M
16.90	18.00	19.10	5	45	MAZ31800MLCT-ND	.37	.31	.21	MAZ31800MLTR-ND	3,000	98.00/M
18.80	20.00	21.20	5	55	MAZ32000MLCT-ND	.37	.31	.21	MAZ32000MLTR-ND	3,000	98.00/M
20.80	22.00	23.30	5	55	MAZ32200MLCT-ND	.37	.31	.21	MAZ32200MLTR-ND	3,000	98.00/M
22.80	24.00	25.60	5	70	MAZ32400MLCT-ND	.37	.31	.21	MAZ32400MLTR-ND	3,000	98.00/M
25.10	27.00	28.90	5	80	MAZ32700MLCT-ND	.37	.31	.21	MAZ32700MLTR-ND	3,000	98.00/M
28.00	30.00	32.00	5	80	MAZ33000MLCT-ND	.37	.31	.21	MAZ33000MLTR-ND	3,000	98.00/M
31.00	33.00	35.00	5	80	MAZ33300MLCT-ND	.37	.31	.21	MAZ33300MLTR-ND	3,000	98.00/M
34.00	36.00	38.00	5	90	MAZ33600MLCT-ND	.37	.31	.21	MAZ33600MLTR-ND	3,000	98.00/M
Mini Mold 3-Pin Package - 200mW											
5.9	6.2	6.5	5	30	MAZC062D0LCT-ND	.47	.40	.32	MAZC062D0LTR-ND	3,000	125.00/M
Mini Mold 5-Pin Package - 200mW											
6.4	6.8	7.2	5	30	MAZL068H0LCT-ND	.57	.46	.35	MAZL068H0LTR-ND	3,000	152.00/M
11.4	12.0	12.7	5	15	MAZL120H0LCT-ND	.57	.46	.35	MAZL120H0LTR-ND	3,000	152.00/M
S-Mini Type Package / MA8000 Series - 200mW											
2.28	2.40	2.60	5	100	MAZ802400LCT-ND	.43	.34	.24	MAZ802400LTR-ND	3,000	97.00/M
2.50	2.70	2.90	5	110	MAZ80270HLCT-ND	.43	.34	.24	MAZ80270HLTR-ND	3,000	97.00/M
2.80	3.00	3.20	5	120	MAZ80300HLCT-ND	.43	.34	.24	MAZ80300HLTR-ND	3,000	97.00/M
3.10	3.30	3.50	5	130	MAZ80330HLCT-ND	.43	.34	.24	MAZ80330HLTR-ND	3,000	97.00/M
3.40	3.60	3.80	5	130	MAZ80360HLCT-ND	.43	.34	.24	MAZ80360HLTR-ND	3,000	97.00/M
3.70	3.90	4.10	5	130	MAZ80390HLCT-ND	.43	.34	.24	MAZ80390HLTR-ND	3,000	97.00/M
4.00	4.30	4.60	5	130	MAZ80430MLCT-ND	.43	.34	.24	MAZ80430MLTR-ND	3,000	97.00/M
4.40	4.70	5.00	5	80	MAZ80470MLCT-ND	.43	.34	.24	MAZ80470MLTR-ND	3,000	97.00/M
4.80	5.10	5.40	5	60	MAZ80510MLCT-ND	.43	.34	.24	MAZ80510MLTR-ND	3,000	97.00/M
5.30	5.60	6.00	5	40	MAZ80560MLCT-ND	.43	.34	.24	MAZ80560MLTR-ND	3,000	97.00/M
5.80	6.20	6.60	5	30	MAZ80620MLCT-ND	.43	.34	.24	MAZ80620MLTR-ND	3,000	97.00/M
6.40	6.80	7.20	5	20	MAZ80680MLCT-ND	.43	.34	.24	MAZ80680MLTR-ND	3,000	97.00/M
7.00	7.50	7.90	5	20	MAZ80750MLCT-ND	.43	.34	.24	MAZ80750MLTR-ND	3,000	97.00/M
7.70	8.20	8.70	5	20	MAZ80820MLCT-ND	.43	.34	.24	MAZ80820MLTR-ND	3,000	97.00/M
8.50	9.10	9.60	5	20	MAZ80910MLCT-ND	.43	.34	.24	MAZ80910MLTR-ND	3,000	97.00/M
9.40	10.00	10.60	5	30	MAZ81000MLCT-ND	.43	.34	.24	MAZ81000MLTR-ND	3,000	97.00/M
10.40	11.00	11.60	5	30	MAZ81100MLCT-ND	.43	.34	.24	MAZ81100MLTR-ND	3,000	97.00/M
11.40	12.00	12.70	5	30	MAZ81200MLCT-ND	.43	.34	.24	MAZ81200MLTR-ND	3,000	97.00/M
12.40	13.00	14.10	5	35	MAZ81300MLCT-ND	.43	.34	.24	MAZ81300MLTR-ND	3,000	97.00/M
13.65	14.00	14.35	5	40	MAZ81400MLCT-ND	.43	.34	.24	MAZ81400MLTR-ND	3,000	97.00/M
13.90	15.00	15.60	5	40	MAZ81500MLCT-ND	.43	.34	.24	MAZ81500MLTR-ND	3,000	97.00/M
15.30	16.00	17.10	5	50	MAZ81600MLCT-ND	.43	.34	.24	MAZ81600MLTR-ND	3,000	97.00/M
16.90	18.00	19.10	5	60	MAZ81800MLCT-ND	.43	.34	.24	MAZ81800MLTR-ND	3,000	97.00/M
18.80	20.00	21.20	5	80	MAZ82000MLCT-ND	.43	.34	.24	MAZ82000MLTR-ND	3,000	97.00/M
20.80	22.00	23.30	5	80	MAZ82200MLCT-ND	.43	.34	.24	MAZ82200MLTR-ND	3,000	97.00/M
22.80	24.00	25.60	5	100	MAZ82400MLCT-ND	.43	.34	.24	MAZ82400MLTR-ND	3,000	97.00/M
25.10	27.00	28.90	2	120	MAZ827000LCT-ND	.43	.34	.24	MAZ827000LTR-ND	3,000	97.00/M
28.00	30.00	32.00	2	160	MAZ83000MLCT-ND	.43	.34	.24	MAZ83000MLTR-ND	3,000	97.00/M
31.00	33.00	35.00	2	200	MAZ83300MLCT-ND	.43	.34	.24	MAZ83300MLTR-ND	3,000	97.00/M
34.00	36.00	38.00	2	250	MAZ83600MLCT-ND	.43	.34	.24	MAZ83600MLTR-ND	3,000	97.00/M
SS-Mini Type Package 2-Pin / MAZS000 Series - 150mW											
2.5	2.6	2.75	5	110	MAZS0270LLCT-ND	.40	.34	.27	MAZS0270LLTR-ND	3,000	108.00/M
2.95	3.1	3.2	5	120	MAZS0300HLCT-ND	.40	.34	.27	MAZS0300HLTR-ND	3,000	108.00/M
3.1	3.3	3.5	5	130	MAZS0330HLCT-ND	.40	.34	.27	MAZS0330HLTR-ND	3,000	107.00/M
3.55	3.7	3.8	5	130	MAZS0360HLCT-ND	.40	.34	.27	MAZS0360HLTR-ND	3,000	108.00/M
3.7	3.9	4.1	5	130	MAZS0390HLCT-ND	.40	.34	.27	MAZS0390HLTR-ND	3,000	107.00/M
4	4.3	4.6	5	130	MAZS0430MLCT-ND	.40	.34	.27	MAZS0430MLTR-ND	3,000	107.00/M
4.4	4.7	5	5	80	MAZS0470MLCT-ND	.40	.34	.27	MAZS0470MLTR-ND	3,000	107.00/M
4.8	5.1	5.4	5	60	MAZS0510MLCT-ND	.40	.34	.27	MAZS0510MLTR-ND	3,000	107.00/M
5.3	5.6	6	5	40	MAZS0560MLCT-ND	.40	.34	.27	MAZS0560MLTR-ND	3,000	107.00/M
5.8	6.2	6.6	5	30	MAZS0620MLCT-ND	.40	.34	.27	MAZS0620MLTR-ND	3,000	107.00/M
6.4	6.8	7.2	5	20	MAZS0680MLCT-ND	.40	.34	.27	MAZS0680MLTR-ND	3,000	107.00/M
7	7.5	7.9	5	20	MAZS0750MLCT-ND	.40	.34	.27	MAZS0750MLTR-ND	3,000	107.00/M
7.7	8.2	8.7	5	20	MAZS0820MLCT-ND	.40	.34	.27	MAZS0820MLTR-ND	3,000	107.00/M
8.87	9.1	9.33	5	20	MAZS0910MLCT-ND	.40	.34	.27	MAZS0910MLTR-ND	3,000	108.00/M
9.4	10	10.6	5	30	MAZS1000MLCT-ND	.40	.34	.27	MAZS1000MLTR-ND	3,000	107.00/M
10.73	11	11.28	5	30	MAZS1100MLCT-ND	.40	.34	.27	MAZS1100MLTR-ND	3,000	108.00/M
11.4	12	12.7	5	30	MAZS1200MLCT-ND	.40	.34	.27	MAZS1200MLTR-ND	3,000	107.00/M
12.73	13	13.4	5	35	MAZS1300MLCT-ND	.40	.34	.27	MAZS1300MLTR-ND	3,000	108.00/M
14.6	15	15.35	5	40	MAZS1500MLCT-ND	.40	.34	.27	MAZS1500MLTR-ND	3,000	108.00/M
15.7	16	16.5	5	50	MAZS1600MLCT-ND	.40	.34	.27	MAZS1600MLTR-ND	3,000	108.00/M
17.55	18	18.45	5	60	MAZS1800MLCT-ND	.40	.34	.27	MAZS1800MLTR-ND	3,000	108.00/M
19.5	20	20.5	5	80	MAZS2000MLCT-ND	.40	.34	.27	MAZS2000MLTR-ND	3,000	108.00/M
20.8	22	23.3	5	80	MAZS2200MLCT-ND	.40	.34	.27	MAZS2200MLTR-ND	3,000	107.00/M
26.3	27	27.7	2	120	MAZS2700MLCT-ND	.40	.34	.27	MAZS2700MLTR-ND	3,000	108.00/M
32.2	33	33.8	2	200	MAZS3300MLCT-ND	.40	.34	.27	MAZS3300MLTR-ND	3,000	108.00/M
34	36	38	2	250	MAZS3600MLCT-ND	.40	.34	.27	MAZS3600MLTR-ND	3,000	107.00/M
SS-Mini Type Package 3-Pin / MAZT000H Series - 150mW											
6.4	6.8	7.2	5	30	MAZT068H0LCT-ND	.42	.34	.26	MAZT068H0LTR-ND	3,000	112.00/M
7.7	8.2	8.7	5	30	MAZT082H0LCT-ND	.42	.34	.26	MAZT082H0LTR-ND	3,000	112.00/M
S-Mini Type Package 5-Pin / MAZZ000H Series - 200mW											
6.4	6.8	7.2	5	30	MAZZ068H0LCT-ND	.49	.37	.28	MAZZ068H0LTR-ND	3,000	159.00/M
1008 Mold Leadless Package 4-Pin / 100mW											
7.7	8.2	8.7	5	20	MAZR08200ACT-ND	.43	.35	.26	MAZR08200ATR-ND	10,000	107.00/M
7.7	8.2	8.7	5	20	MAZR082H0ACT-ND	.69	.52	.39	MAZR082H0ATR-ND	10,000	214.00/M
NEW! SSS-Mini Type Package 3-Pin / 150mW NEW!											
7.7	8.2	8.7	5	30	MAZW082H0LCT-ND	.54	.43	.33	MAZW082H0LTR-ND	10,000	134.00/M

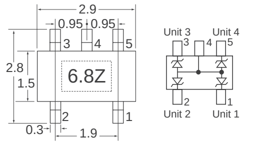
Mini Type Package



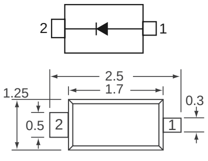
Mini Mold (3-pin) Package - 200mW



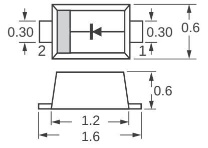
Mini Mold (5-pin) Package - 200mW



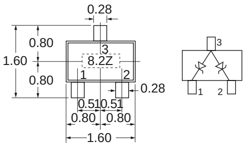
S-Mini Type Package



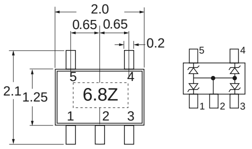
SS-Mini Type Package (2-pin)



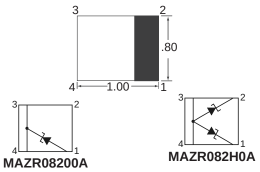
SS-Mini Type Package (3-pin)



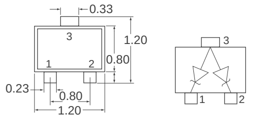
S-Mini Type Package (5-pin)



1008 Mold Leadless Package (4-pin)



NEW! SSS-Mini Type Package (3-pin)



International
IOR Rectifier

IGBT Transistors

The field of 3-phase 220V PWM motor drives has had mainly bipolars and power MOSFETs competing with one another. Power MOSFETs have been the choice of power electronic designers, especially at power levels below 5 hp because of the ease of drive and their rugged operations. Since FETs are voltage-controlled devices, they require only very small gate current pulses to turn them off and on. The average currents necessary for controlling the device state are often magnitudes lower than those required by bipolar devices of similar ratings. What's more, the FET's wide switching safe operating area (SOA), avalanche and dv/dt capabilities allow for snubberless operation, often a great advantage over bipolars. The $R_{DS(on)}$ of the FET does, however, rise exponentially with voltage rating. The IGBT combines the best of both worlds. It is a voltage-controlled device (like the MOSFET) allowing designers to greatly simplify their drive circuits. It is a rugged device with a square switching SOA and high peak current capability. In addition, it exhibits low forward voltage characteristics similar to bipolars, reducing the conduction loss. For those IGBT's without an internal reverse diode, designers can choose an external fast recovery diode to suit a specific application. All this indicates that the IGBT will be the device for applications requiring high current densities at high voltages coupled with switching frequencies up to 20 to 50 kHz.

High Efficiency WARP™ Speed IGBTs: Optimized for 75-150kHz hard switching frequency. For use in UPS, welding, switch mode power supplies and PFC stages.

IGBT SIP Module: The IGBT technology is the key to International Rectifier's advanced line of IMS (Insulated Metal Substrate) Power Modules. These modules are more efficient than comparable bipolar transistor modules, while at the same time having the simpler gate-drive requirements of the familiar power MOSFET. This superior technology has now been coupled to a state of the art materials system that maximizes power throughput with low thermal resistance. This package is highly suited to motor drive applications and where space is at a premium. **Features:** • Fully isolated printed circuit board mount package • Switching-loss rating includes all "tail" losses • HEXFRED soft ultrafast diodes • Optimized for medium operating (1 to 10kHz)

Fig. 1

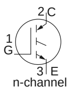


Fig. 2

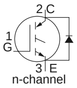


Fig. 3

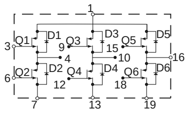


Fig. 4

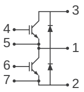


Fig. 5 *NEW!*

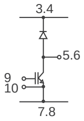


Fig. 6 *NEW!*

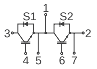


Fig. 7 *NEW!*

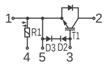
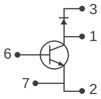
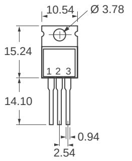


Fig. 8 *NEW!*



TO-220AB



TO-247AC

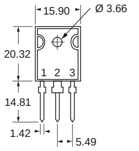
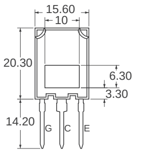
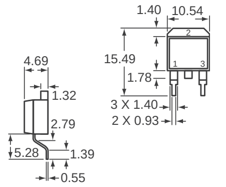


Fig.	Package	VCE	VCE (Sat) Max	IC @ TC +25°C	Pulse Current ICM	Max Power Dissipation	Delay Time (ns) Td (on)	Td (off)	ETS Total Switching Loss @ IC mJ	Amps	Digi-Key Part No.	Price Each 1	10	100
1	TO-220AB	600	1.4	19	38	60	27	540	2.17	10	IRG4BC20S-ND	2.15	1.72	1.24
			2.27	13	52	60	20	190	.22	6.5	IRG4BC20U-ND	2.23	1.90	1.57
			1.99	31	120	100	20	290	2.50	17.0	IRG4BC30F-ND	2.98	2.54	2.09
			1.4	34	68	100	22	540	3.71	18	IRG4BC30S-ND	3.73	2.98	2.13
			2.52	23	92	100	20	180	.73	12.0	IRG4BC30U-ND	4.26	2.99	2.40
			1.66	16	64	60	24	190	1.1	9	IRG4BC20F-ND	2.78	2.22	1.67
			1.5	49	200	160	26	240	2.18	27	IRG4BC40F-ND	4.40	3.52	2.52
			2.15	40	160	160	30	220	1.40	20.0	IRG4BC40U-ND	4.21	3.58	2.95
			2.8	16	32	60	28	190	0.68	9.0	IRG4BC20K-ND	2.78	2.22	1.78
2	TO-220AB	600	2.15	8.5	34	38	40	87	0.26	25	IRG4BC10UD-ND	3.00	2.04	1.61
			1.66	16	64	60	43	240	0.89	9	IRG4BC20FD-ND	3.80	3.04	2.17
			2.27	16	32	60	54	180	0.64	9	IRG4BC20KD-ND	2.71	2.17	1.55
			2.27	13	52	60	38	100	.49	6.5	IRG4BC20UD-ND	2.95	2.51	2.07
			1.99	31	120	100	42	310	3.20	17.0	IRG4BC30FD-ND	4.86	4.14	3.41
			2.21	28	58	100	60	160	1.18	16	IRG4BC30KD-ND	4.22	3.01	2.44
			2.52	23	92	100	40	120	.89	12.0	IRG4BC30UD-ND	4.21	3.58	2.95
1	TO-247AC	600	1.59	31	120	100	21	200	1.41	17.0	IRG4PC30F-ND	3.08	2.46	1.76
			1.5	49	200	160	26	240	2.18	27	IRG4PC40F-ND	5.03	4.02	2.88
			2.1	42	84	160	30	140	0.95	25	IRG4PC40K-ND	6.40	5.12	3.66
			1.68	60	120	160	23	1000	12.00	31.0	IRG4PC40S-ND	4.41	3.75	3.09
			2.15	40	160	160	30	220	1.40	20.0	IRG4PC40U-ND	4.98	3.62	2.97
			1.79	70	280	200	28	390	5.00	39.0	IRG4PC50F-ND	7.09	6.03	4.97
			1.47	70	114	200	32	845	21.4	33	IRG4PC50S-ND	8.34	6.67	4.77
			2.00	55	220	200	31	230	1.60	27.0	IRG4PC50U-ND	8.68	6.53	5.45
1	TO-247AC	1200	2.74	30	60	160	30	200	4.93	25	IRG4PH40K-ND	5.19	4.15	2.97
			2.43	30	82	160	24	220	4.44	21	IRG4PH40U-ND	6.00	4.80	3.43
			3.20	45	180	200	31	320	5.40	24.0	IRG4PH50U-ND	7.91	6.05	5.09
			1.47	57	114	200	32	845	21.4	33	IRG4PH50S-ND	7.10	5.68	3.45
2	TO-247AC	600	1.99	31	120	100	42	310	3.20	17.0	IRG4PC30FD-ND	5.34	4.54	3.74
			1.95	23	92	100	40	91	0.38	12	IRG4PC30UD-ND	6.95	5.56	4.17
			1.85	49	200	160	63	350	4.70	27.0	IRG4PC40FD-ND	5.74	4.88	4.02
			2.15	40	160	160	40	200	1.60	20.0	IRG4PC40UD-ND	8.72	6.54	5.46
			1.79	70	280	200	59	260	6.50	39.0	IRG4PC50FD-ND	10.28	8.74	7.20
			2.00	55	220	200	44	240	2.30	27.0	IRG4PC50UD-ND	11.44	9.73	8.01
			3.1	28	40	100	39	340	2.6	10	IRG4PC30KD-ND	5.38	4.30	3.07
			2.74	42	60	160	50	140	2.8	15	IRG4PC40KD-ND	8.72	6.98	4.99
			2.77	52	90	200	67	310	7.9	24	IRG4PC50KD-ND	12.60	10.08	7.20
2	TO-247AC	1200	3.1	20	40	100	39	340	2.6	10	IRG4PH30KD-ND	7.63	6.10	4.36
			2.74	30	60	160	50	140	2.8	15	IRG4PH40KD-ND	8.20	6.56	4.69
			2.43	30	82	160	46	150	4.6	21	IRG4PH40UD-ND	6.90	5.53	3.95
			2.1	45	84	160	30	140	.95	25	IRG4PH50KD-ND	14.20	11.36	8.11
			3.20	45	180	200	46	240	6.38	24.0	IRG4PH50UD-ND	18.86	16.04	13.21
			2.28	60	120	300	50	210	2.5	25	IRGP30B120KD-E-ND	11.86	9.49	7.11
1	TO-247AD	1200	3.05	40	120	300	50	204	1275	20	IRGP20B120U-E-ND	6.98	5.03	4.19
1	Super 247	600	2.00	85	200	350	34	56	2.41	15	IRG4PSC71U-ND	18.13	14.50	8.79
			1.83	85	200	350	34	251	2.77	60	IRG4PSC71K-ND	18.13	14.50	11.60
2	Super 247	600	2.00	85	60	350	90	245	7.2	75	IRG4PSC71UD-ND	21.00	16.80	10.19
1	D2PAK	430	1.2	20	—	125	0.9	6	—	—	IRGS14C40L-ND	3.96	2.78	2.16
2	D2PAK	600	1.85	13	52	60	39	93	0.49	6.5	IRG4BC20UD-S-ND	3.60	2.88	2.16
			1.85	18	36	60	21	463	2.44	11	IRG4BC20MD-S-ND	3.21	2.25	1.75
			1.4	34	68	100	22	540	3.71	18	IRG4BC30S-S-ND	4.12	2.94	2.39
			1.10	14	18	38	76	815	3.60	8.0	IRG4BC10SD-S-ND	1.98	1.13	.92
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UD-S-ND	2.02	1.41	1.07
1	TO-220AB	600	2.16	13	52	60	22	110	0.14	6.5	IRG4BC20W-ND	1.44	1.23	1.03
			2.70	23	92	100	24	150	0.26	12.0	IRG4BC30W-ND	3.24	2.76	2.31
			1.2	20	—	125	0.9	6	—	—	IRGB14C40L-ND	3.75	2.63	2.05
			2.05	40	160	160	27	100	0.34	20.0	IRG4BC40W-ND	6.20	5.27	4.43
1	TO-247AC	600	2.70	23	92	100	25	99	0.26	12.0	IRG4PC30W-ND	3.60	3.06	2.57
		600	2.05	40	160	160	27	100	0.34	20.0	IRG4PC40W-ND	3.80	3.23	2.72
		600	2.1	13	52	60	20	190	0.4	6.5	IRG4PC20U-ND	2.66	2.13	1.71
		600	2.30	55	220	200	46	120	0.40	27.0	IRG4PC50W-ND	6.24	5.31	4.46
		900	2.25	51	204	200	29	110	1.25	28	IRG4PF50W-ND	7.65	6.12	3.71
3	IMS-2	600	1.5	27	80	63	42	220	1.8	15	CPV364M4F-ND	70.85	56.68	42.51
			1.63	16	50	36	37	400	0.85	8.7	CPV363M4F-ND	57.55	46.04	34.53

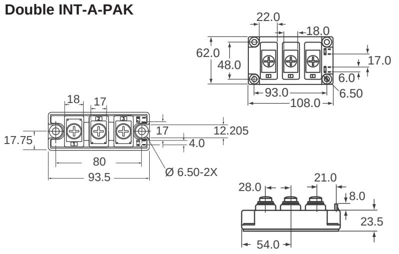
SUPER-247



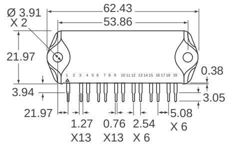
D2PAK



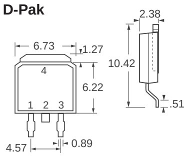
Double INT-A-PAK



IMS-2



D-Pak



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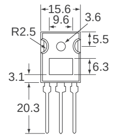

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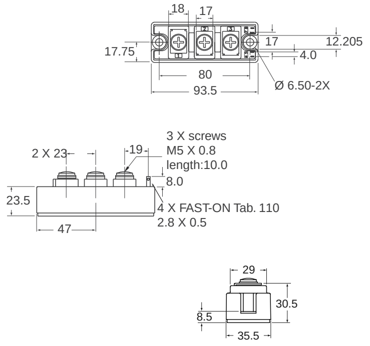


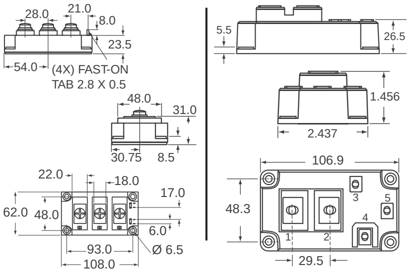
(Continued)

International
IOR Rectifier

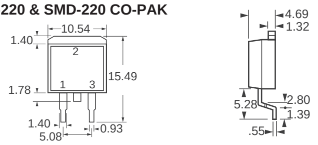
IGBT Transistors *(Cont.)*

Fig.	Package	VCE	VCE (Sat) Max	IC @ TC +25°C	Pulse Current ICM	Max Power Dissipation	Delay Time (ns)		ETS Total Switching Loss @ IC		Digi-Key Part No.	Price Each		
							Td (on)	Td (off)	mJ	Amps		1	10	100
3	IMS-2	600	1.93	5.7	11	23	23	125	0.26	3.0	CPV362M4K-ND	45.18	36.15	27.11
			2.2	7.2	22	23	42	120	0.35	3.9	CPV362M4U-ND	44.69	35.75	26.82
			2.2	11	22	36	55	107	0.50	6.0	CPV363M4K-ND	51.64	41.31	30.99
			2.2	13	40	36	43	140	0.45	6.8	CPV363M4U-ND	51.35	41.08	30.81
			2.3	24	48	63	50	170	1.28	13	CPV364M4K-ND	63.77	51.02	38.26
			2.1	20	60	63	41	140	0.74	10	CPV364M4U-ND	63.77	51.02	38.26
2	D2PAK	600	1.7	14	18	38	76	815	3.60	8.0	IRG4RC10SD-ND	1.58	1.26	.95
			1.82	22	44	66	26	194	1.11	12	IRG4RC20F-ND	1.81	1.03	.84
			2.39	9.0	18	38	49	97	0.39	5.0	IRG4RC10KD-ND	2.21	1.54	1.17
1	D-PAK	600	2.39	9.0	18	38	11	51	0.26	5.0	IRG4RC10K-ND	.83	.67	.50
			1.10	14	18	38	25	630	2.72	8.0	IRG4RC10S-ND	.45	.36	.27
			2.15	8.5	34	38	19	116	0.24	5.0	IRG4RC10U-ND	1.26	1.01	.76
4	INT-A-PAK	1200	2.9	100	200	520	172	435	52	100	GA100TS120U-ND	153.74	123.00	92.25
		1200	2.2	125	250	625	186	459	75	125	GA125TS120U-ND	176.87	141.50	106.13
		1200	2.5	50	100	280	74	313	16	50	GA50TS120U-ND	99.05	79.24	59.43
		1200	2.1	75	150	390	109	392	31	75	GA75TS120U-ND	123.19	98.55	73.92
6	INT-A-PAK	600	2.0	100	200	320	168	320	11	100	GA100TS60U-ND	93.80	75.05	56.29
		600	1.7	150	300	440	241	336	33	150	GA150TS60U-ND	109.58	87.66	65.75
		600	1.9	250	500	780	173	1020	45	250	GA250TS60U-ND	164.97	131.98	98.99
		600	1.7	75	150	285	110	250	6.35	75	GA75TS60U-ND	87.98	70.38	52.79
8	INT-A-PAK	600	1.7	150	300	440	241	336	33	150	GA150KS61U-ND	110.45	88.37	66.28
4	Double INT-A-PAK	1200	2.4	150	300	780	414	552	90	150	GA150TD120U-ND	242.70	194.16	150.48
5	Dual INT-A-PAK	1200	2.4	250	500	1250	731	653	108	250	GA250TD120U-ND	337.34	269.88	202.41
6	Dual INT-A-PAK	1200	2.4	200	400	1040	636	650	130	200	GA200TD120U-ND	288.43	230.75	173.06
		600	1.8	300	600	880	645	418	60	300	GA300TD60U-ND	227.93	182.34	136.76
		250	1.3	400	800	1350	1250	841	45	400	GA400TD25S-ND	248.18	198.54	148.91
		600	1.7	400	800	1250	1033	688	74	400	GA400TD60U-ND	248.18	198.54	148.91
		600	1.9	500	1000	1550	1900	800	97	500	GA500TD60U-ND	312.19	249.75	187.32
7	Dual INT-A-PAK	250	1.25	600	1200	1920	1060	846	122	600	GA600GD25S-ND	248.18	198.54	148.91
1	SMD-220	600	1.66	16	64	60	43	240	0.89	9.0	IRG4BC20F-S-ND	2.41	1.93	1.45
		600	2.27	16	32	60	28	150	0.40	9.0	IRG4BC20K-S-ND	2.41	1.93	1.45
		600	12.16	13	52	60	22	110	0.14	6.5	IRG4BC20W-S-ND	2.70	2.16	1.62
		600	1.99	31	120	100	42	310	3.20	17.0	IRG4BC30F-S-ND	3.38	2.70	2.03
		600	2.21	28	58	100	26	130	0.87	16	IRG4BC30K-S-ND	3.31	2.65	1.99
		600	1.95	23	92	100	17	78	0.73	12	IRG4BC30U-S-ND	3.40	2.72	2.04
		600	2.10	23	92	100	25	99	0.26	12	IRG4BC30W-S-ND	2.68	2.15	1.61
		600	2.05	40	160	160	27	100	0.34	20.0	IRG4BC40W-S-ND	5.13	4.11	3.08
		1200	3.17	11	22	60	23	93	0.89	5.0	IRG4BH20K-S-ND	2.75	2.20	1.65
2	SMD-220 COPAK	600	1.66	16	64	60	43	240	0.89	9.0	IRG4BC20FD-S-ND	3.53	2.83	2.12
			1.4	19	38	60	62	690	2.90	10	IRG4BC20SD-S-ND	3.60	2.88	2.16
			1.99	31	120	100	42	310	3.20	17.0	IRG4BC30FD-S-ND	5.60	4.49	3.37
			2.21	28	58	100	60	160	1.18	16	IRG4BC30KD-S-ND	4.34	3.48	2.61
1	SUPER 247	1200	2.97	78	156	350	45	220	5.49	42	IRG4PSH71K-ND	16.38	13.11	9.83
		600	1.67	85	200	350	34	56	2.41	60	IRG4PSH71U-ND	16.31	13.05	9.79
2	SUPER 247	600	1.83	85	200	350	82	282	6.28	60	IRG4PSC71KD-ND	18.90	15.12	11.34
		1200	2.97	78	156	350	67	230	8.90	42	IRG4PSH71KD-ND	18.90	15.12	11.34
		600	1.67	85	200	350	90	245	5.53	60	IRG4PSH71UD-ND	18.90	15.12	11.34
1	TO-220 FULLPAK	600	2.16	11.8	52	34	22	110	0.14	6.5	IRG4IBC20W-ND	2.43	1.95	1.46
			1.6	23.5	68	45	22	540	3.71	18	IRG4IBC30S-ND	3.40	2.72	2.04
			2.1	17	92	45	25	99	0.26	12	IRG4IBC30W-ND	3.40	2.72	2.04
2	TO-220 FULLPAK	600	2.15	6.8	27	25	40	87	0.26	5.0	IRG4IBC10UD-ND	4.25	3.41	2.56
			1.66	14.3	64	34	43	240	0.89	9.0	IRG4IBC20FD-ND	3.53	2.83	2.12
			2.27	11.5	23	34	54	180	0.64	9.0	IRG4IBC20KD-ND	3.53	2.83	2.12
			1.85	11.4	52	34	39	93	0.29	6.5	IRG4IBC20UD-ND	5.58	4.47	3.35
			1.59	20.3	120	45	42	230	2.02	17	IRG4IBC30FD-ND	5.58	4.47	3.35
			2.21	17	34	45	60	160	1.18	16	IRG4IBC30KD-ND	5.58	4.47	3.35
			1.95	17	92	45	40	91	0.54	12	IRG4IBC30UD-ND	3.65	2.92	2.19
1	TO-220AB	600	2.39	9.0	18	38	11	51	0.26	5.0	IRG4BC10K-ND	2.03	1.62	1.22
			1.1	14	18	38	25	630	2.72	8.0	IRG4BC10S-ND	2.03	1.62	1.22
			2.15	8.5	34	38	40	87	0.26	5.0	IRG4BC10U-ND	2.03	1.62	1.22
			2.21	28	58	100	26	130	0.87	16	IRG4BC30K-ND	3.13	2.51	1.88
			2.10	42	84	160	30	140	1.9	25	IRG4BC40K-ND	5.36	4.29	3.22
2	TO-220AB	600	2.39	9.0	18	38	49	97	0.39	5.0	IRG4BC10KD-ND	2.30	1.84	1.38
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UD-ND	1.98	1.13	.92
			1.1	14	18	38	76	815	3.6	8.0	IRG4BC10SD-ND	2.16	1.73	1.30
			1.4	19	38	60	62	690	2.90	10	IRG4BC20SD-ND	2.57	2.06	1.54
1	TO-247AC	1200	2.77	45	90	200	36	200	3.46	24	IRG4PH50K-ND	8.21	6.57	4.93
		250	1.32	98	196	200	40	270	3.88	55	IRG4P254S-ND	9.11	7.29	5.47
		600	2.21	28	58	100	26	130	0.87	16	IRG4PC30K-ND	3.24	2.60	1.95
		600	1.4	34	68	100	22	540	3.71	18	IRG4PC30S-ND	3.75	2.60	2.08
		600	1.95	23	92	100	17	78	0.73	12	IRG4PC30U-ND	4.25	3.41	2.56
		600	1.84	52	104	200	38	160	1.12	30	IRG4PC50K-ND	8.37	6.70	5.03
		1200	3.17	11	22	60	23	93	1.7	5.0	IRG4PH20K-ND	2.84	2.27	1.71
		1200	3.10	20	40	100	28	200	1.56	10	IRG4PH30K-ND	3.38	2.70	2.03
2	TO-247AC	900	2.25	51	204	200	71	150	3.97	28	IRG4PF50WD-ND	8.89	7.11	5.34
		1200	3.17	11	22	60	50	100	0.92	5.0	IRG4PH20KD-ND	3.65	2.92	2.19
		1200	4.85	40	120	300	50	204	1275	20	IRGP20B120UD-E-ND	11.86	9.49	7.12
1	TO-262	1200	3.17	11	22	60	23	93	0.89	5.0	IRG4BH20K-L-ND	2.75	2.20	1.65
2	TO-262	600	1.10	14	18	38	76	815	3.6	8.0	IRG4BC10SD-L-ND	1.98	1.13	.92
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UD-L-ND	2.02	1.41	1.07
1	SOT-227	600	1.1	200	400	630	78	890	18.4	100	GA200SA60S-ND	41.72	34.73	30.45
			1.6	200	400	500	54	130	4.46	100	GA200SA60U-ND	41.72	34.73	30.45
4	MTP	600	2.17	114	350	658	—	—	1.46	50	50MT060WH-ND *NEW!*	50.47	42.63	37.30
5	MTP	600	2.24	100	200	445	—	—	2.4	50	50MT060ULS-ND *NEW!*	40.03	33.98	29.87
—	ECONO2 PIM	1200	2.80	25	120	125	50	300	2200	15	GB15RF120K-ND *NEW!*	79.73	66.75	58.78
			2.70	40	250	104	80	510	4500	25	GB25RF120K-ND *NEW!*	103.79	86.89	76.51
—	ECONO2 6Pack	1200	2.50	40	80	198	60	450	4070	25	GB25XF120K-ND *NEW!*	72.14	60.39	53.18
			2.60	50	100	284	50	415	5200	35	GB35XF120K-ND *NEW!*	82.36	68.95	60.71
			2.65	75	150	329	60	570	7340	50	GB50XF120K-ND *NEW!*	99.70	83.47	73.50

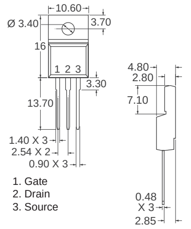
Dual-INT-A-PAK



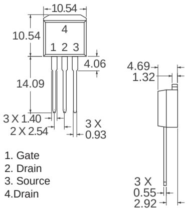
SMD-220 & SMD-220 CO-PAK



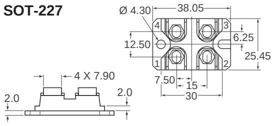
TO-220 Full Pak



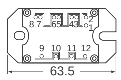
TO-262



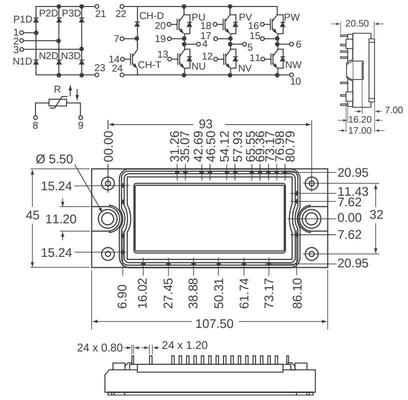
SOT-227



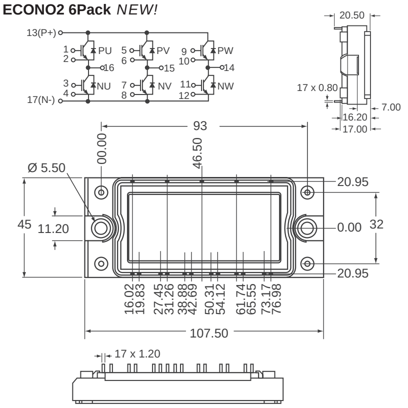
MTP *NEW!*



ECONO2 PIM *NEW!*



ECONO2 6Pack *NEW!*



FAIRCHILD
SEMICONDUCTOR

Surface Mount and Through-Hole Power MOSFETS

Fig.	Type	V_{DS} (V)	$R_{DS(on)}$ Max (Ω)			I_D (A)	P_D (W)	Config. or Pkg.	Digi-Key Part No	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
			V_{GS} @ 10V	V_{GS} @ 4.5V	V_{GS} @ 2.7V					1	10	100		
SuperSOT™-3 High Drain Current														
1	N-Chan.	30	—	0.25	—	1.1	0.5	Single	NDS351NCT-ND	.66	4.95	37.13	NDS351NTR-ND	643.50/3,000
		30	—	0.125	—	1.6	0.5		NDS355NCT-ND	.90	6.75	50.63	NDS355NTR-ND	877.50/3,000
1	P-Chan.*	-20	—	0.5	—	-0.85	0.5	Single	NDS352PCT-ND	.49	3.66	27.45	NDS352PTR-ND	475.80/3,000
		-20	—	0.3	—	-1.1	0.5		NDS356PCT-ND	.79	6.60	52.80	NDS356PTR-ND	1029.60/3,000
2	N-Chan.	30	—	0.065	.082†	2.2	0.5	Single	FDN337NCT-ND	.48	3.60	27.00	FDN337NTR-ND	468.00/3,000
		30	0.16	0.25	—	1.2	0.5		NDS351ANCT-ND	.48	3.84	28.80	NDS351ANTR-ND	388.80/3,000
		20	—	0.16	0.21	1.3	0.5		NDS331NCT-ND	.48	3.84	28.80	NDS331NTR-ND	388.80/3,000
		20	—	0.11	0.14	1.7	0.5		NDS335NCT-ND	.57	4.56	34.20	NDS335NTR-ND	461.70/3,000
		30	0.085	0.125	—	1.7	0.5		NDS355ANCT-ND	.48	3.60	27.00	NDS355ANTR-ND	468.00/3,000
2	P-Chan.*	-20	—	115	155†	-1.6	0.5	Single	FDN338PCT-ND	.54	4.32	32.40	FDN338PTR-ND	437.40/3,000
		-20	—	0.3	0.41	-1	0.5		NDS332PCT-ND	.42	3.36	25.20	NDS332PTR-ND	340.20/3,000
		-30	0.2	0.3	—	±1.1	0.5		NDS356APCT-ND	.53	3.96	29.70	NDS356APTR-ND	514.80/3,000
		-30	0.3	0.5	—	±9	0.5		NDS352APCT-ND	.48	3.84	28.80	NDS352APTR-ND	388.80/3,000
SOT-23 (TO236AB)														
1	N-Chan.	25	—	0.45	0.6	0.68	0.35	Single	FDV303NCT-ND	.36	2.89	19.80	FDV303NTR-ND	280.50/3,000
		25	—	4	5	0.22	0.35		FDV301NCT-ND	.36	2.72	18.88	FDV301NTR-ND	217.80/3,000
		50	3.5	6	—	0.22	0.36		BSS138CT-ND	.36	2.70	18.72	BSS138TR-ND	216.00/3,000
		60	7.5	—	—	0.115	0.2		2N7002NCT-ND	.22	1.62	11.70	2N7002NTR-ND	126.90/3,000
		60	2	—	—	0.28	0.3		NDS7002ACT-ND	.40	3.15	22.18	NDS7002ATR-ND	272.16/3,000
		100	6	—	—	0.17	0.36		BSS123NCT-ND	.36	2.70	18.72	BSS123NTR-ND	216.00/3,000
1	P-Chan.*	-25	—	1.1	1.5	-0.46	0.35	Single	FDV304PCT-ND	.50	4.04	27.72	FDV304PTR-ND	392.70/3,000
		-25	—	10	13	-0.12	0.35		FDV302PCT-ND	.33	2.54	17.91	FDV302PTR-ND	219.78/3,000
		-50	10	—	—	-0.13	0.3		BSS84CT-ND	.23	1.73	12.48	BSS84TR-ND	135.36/3,000
		-60	5	7.5	—	-0.18	0.36		NDS0605CT-ND	.43	3.38	23.76	NDS0605TR-ND	291.60/3,000
		-60	10	—	—	-0.12	0.36		NDS0610CT-ND	.35	2.70	19.01	NDS0610TR-ND	233.28/3,000
SuperSOT™-6 (SOT-6)														
3	N-Chan.	30	0.06	0.09	—	3.2	1.6	Single	NDC651NCT-ND	.86	6.48	48.60	NDC651NTR-ND	842.40/3,000
4		50	2	—	—	0.35	0.5	Dual	NDC7002NCT-ND	.48	3.60	27.00	NDC7002NTR-ND	468.00/3,000
3	P-Chan.*	-30	0.11	0.18	—	-2.4	1.6	Single	NDC652PCT-ND	.77	5.76	43.20	NDC652PTR-ND	748.80/3,000
4		-50	5	—	—	-0.22	0.5	Dual	NDC7003PCT-ND	.48	3.60	27.00	NDC7003PTR-ND	468.00/3,000
4	N-Chan.	50	2	—	—	0.35	0.5	Compl.	NDC7001CCT-ND	.58	4.32	32.40	NDC7001CTR-ND	561.60/3,000
	P-Chan.*	-50	5	—	—	-0.22	0.5							
Power MOSFET (SO-8)														
6	N-Chan.	30	0.015	0.02	—	10.0	2.5	Single	NDS8410CT-ND	1.30	10.80	86.40	NDS8410TR-ND	1404.00/2,500
7		30	0.037	0.055	—	5.3	2	Dual	NDS8936CT-ND	1.22	10.20	81.60	NDS8936TR-ND	1326.00/2,500
5		30	0.028	0.042	—	7.3	2.5	Single	NDS9410ACT-ND	.82	6.12	45.90	NDS9410ATR-ND	663.00/2,500
7		30	0.05	0.08	—	5	2	Dual	NDS9936CT-ND	1.22	10.13	81.00	NDS9936TR-ND	1316.25/2,500
7		30	0.08	0.11	—	3.7	2	Dual	NDS9956ACT-ND	.86	7.20	57.60	NDS9956ATR-ND	936.00/2,500
7		50	0.13	0.2	—	3	2	Dual	NDS9955CT-ND	1.49	12.38	99.00	—	—
7		50	0.3	0.5	—	2	2	Dual	NDS9959CT-ND	.79	6.60	52.80	NDS9959TR-ND	858.00/2,500
7		60	0.1	0.2	—	3.5	2	Dual	NDS9945CT-ND	1.35	11.25	90.00	NDS9945TR-ND	1462.50/2,500
6	P-Chan.*	-20	—	0.035	0.05	-6.7	2.5	Single	NDS8434CT-ND	1.30	10.80	86.40	NDS8434TR-ND	1404.00/2,500
5		-20	0.1	0.16	—	-4.3	2.5	Single	NDS9405CT-ND	1.62	12.98	97.35	NDS9405TR-ND	2076.80/2,500
6		-30	0.06	0.115	—	-5.3	2.5	Single	NDS9430CT-ND	1.08	9.00	72.00	NDS9430TR-ND	1170.00/2,500
7		-20	—	0.11	0.19	-3.2	2	Dual	NDS9933CT-ND	1.74	13.89	104.16	NDS9933TR-ND	2222.08/2,500
7		-20	0.1	0.19	—	-3.5	2	Dual	NDS9947CT-ND	1.33	11.10	88.80	NDS9947TR-ND	1443.00/2,500
7		-30	0.065	0.1	—	-4.0	2	Dual	NDS8947CT-ND	1.26	10.08	75.60	NDS8947TR-ND	1612.80/2,500
5		-30	0.13	0.2	—	-3.6	2.5	Single	NDS9400ACT-ND	1.10	9.18	73.40	NDS9400ATR-ND	1192.75/2,500
6		-30	0.05	0.09	—	-5.3	2.5	Single	NDS9435ACT-ND	.84	6.30	47.25	NDS9435ATR-ND	682.50/2,500
7		-30	0.13	0.2	—	-2.9	2	Dual	NDS9953ACT-ND	.86	7.13	57.00	NDS9953ATR-ND	926.25/2,500
6		-60	0.15	0.24	—	-3.3	2.5	Single	NDS9407CT-ND	.97	8.10	64.80	NDS9407TR-ND	1053.00/2,500
7		-60	0.25	0.5	—	-2.3	2	Dual	NDS9948CT-ND	1.12	9.30	74.40	NDS9948TR-ND	1209.00/2,500
PowerSOT (SOT-223)														
8	N-Chan.	30	0.05	0.08	—	5.5	3	Single	NDT451NCT-ND	1.09	9.08	72.60	NDT451NTR-ND	1179.75/2,500
		30	0.037	0.055	—	7.1	3		NDT451ANCT-ND	.83	6.90	55.20	NDT451ANTR-ND	897.00/2,500
		30	0.028	0.042	—	8	3		NDT453NCT-ND	1.19	9.90	79.20	NDT453NTR-ND	1287.00/2,500
		30	0.015	0.02	—	11.5	3		NDT455NCT-ND	1.62	12.96	97.20	NDT455NTR-ND	2073.60/2,500
		60	0.12	—	—	3.7	3		NDT3055CT-ND	.72	5.40	40.50	NDT3055TR-ND	585.00/2,500
		60	—	0.15	—	3.5	3		NDT3055LCT-ND	.77	5.76	43.20	NDT3055LTR-ND	624.00/2,500
8	P-Chan.*	-30	0.18	0.32	—	-3	3	Single	NDT452PCT-ND	1.06	8.80	70.40	—	—
		-30	0.035	0.05	—	-7.3	3		NDT456PCT-ND	1.56	12.48	93.60	NDT456PTR-ND	1996.80/2,500
		-30	0.065	0.1	—	-5	3		NDT452APCT-ND	.94	7.80	62.40	NDT452APTR-ND	1014.00/2,500
		-60	0.3	0.5	—	-2.5	3		NDT2955CT-ND	.67	5.04	37.80	NDT2955TR-ND	546.00/2,500
TO-252														
9	N-Chan.	30	0.008	0.010	—	66	3.2	Single	FDD6670ACT-ND	1.30	10.80	86.40	FDD6670ATR-ND	1404.00/2,500
Power MOSFET (SO-8) (Complementary N-P Channel 3 Phase Brushless Motor Driver)														
7	N-Chan.	20	0.125	0.25	—	3	2	Compl.	NDS9942CT-ND	1.51	12.10	90.72	—	—
	P-Chan.*	-20	0.2	0.4	—	-2.5	2							
7	N-Chan.	20	0.125	0.25	—	3	2	Compl.	NDS9943CT-ND	1.51	12.10	90.75	NDS9943TR-ND	1936.00/2,500
	P-Chan.*	-20	0.16	0.3	—	-2.8	2							
7	N-Chan.	20	0.1	0.15	—	3.5	2	Compl.	NDS9958CT-ND	1.35	11.28	90.20	NDS9958TR-ND	1465.75/2,500
	P-Chan.*	-20	0.1	0.19	—	-3	2							
7	N-Chan.	30	0.037	0.055	—	5.3	2	Compl.	NDS8958CT-ND	1.69	13.49	101.16	NDS8958TR-ND	2158.08/2,500
	P-Chan.*	-30	0.065	0.10	—	-4.0	2							
7	N-Chan.	30	0.08	0.11	—	4	2	Compl.	NDS9952ACT-ND	.94	7.80	62.40	NDS9952ATR-ND	1014.00/2,500
	P-Chan.*	-30	0.13	0.2	—	-2.9	2							

* V_{GS} are negative for P-Channel devices. † V_{GS} @ 2.5V ‡ V_{GS} @ 5V

(Continued)

Fig. 1 SOT-23 (TO-236AB)

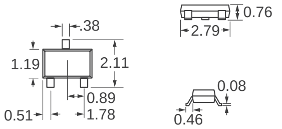
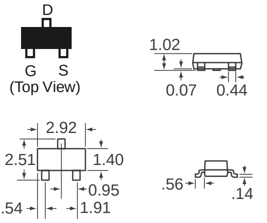


Fig. 2 SuperSOT™-3



SuperSOT™-6

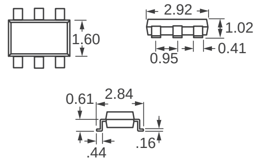
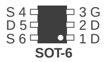


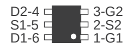
Fig. 3



SOT-6
(Top View)

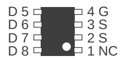
Fig. 4

NDC7001CCT:
G1, S1, D1 are
N-Chan



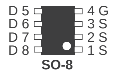
SOT-6
(Top View)

Fig. 5



SO-8
(Top View)

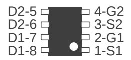
Fig. 6



SO-8
(Top View)

Fig. 7

1, 2, 7, 8 are
N-Chan for
complementary
parts only.



SO-8
(Top View)

Fig. 8 SOT-223

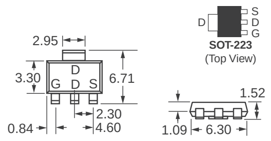
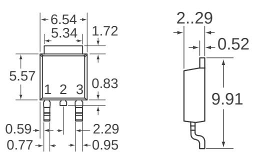


Fig. 9 TO-252



Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Fig.	Type	V_{DS} (V)	$R_{DS(on)}$ Max (Ω) V_{GS} @ 10V	V_{GS} @ 4.5V	V_{GS} @ 2.7V	I_D (A)	P_D (W)	Config. or Pkg.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing
Power MOSFET (SO-8) (Complementary MOSFETS Half Bridge)														
10	N-Chan.	30	0.037	0.055	—	6.3	2.5	Compl.	NDS8858HCT-ND	1.26	10.50	84.00	NDS8858HTR-ND	1365.00/2,500
	P-Chan.*	-30	0.065	0.10	—	-4.8	2.5							
10	N-Chan.	30	0.08	0.11	—	4.3	2.5	Compl.	NDS8852HCT-ND	1.09	9.08	72.60	NDS8852HTR-ND	1179.75/2,500
	P-Chan.*	-30	0.13	0.2	—	-3.4	2.5							
Power MOSFET (TO-263AB)														
11	N-Chan.	30	0.022	0.04	—	25	50	TO-263AB	NDB603ALCT-ND	1.07	8.90	71.20	NDB603ALTR-ND	399.17/800
		50	0.1	—	—	15	50		NDB4050CT-ND	1.10	9.20	73.60	NDB4050TR-ND	397.44/800
		50	—	—	0.1	15	50		NDB4050LCT-ND	1.08	9.00	72.00	NDB4050LTR-ND	403.20/800
		60	0.1	—	—	15	50		NDB4060CT-ND	1.36	11.34	90.72	—	—
		60	—	—	0.025	48	100		NDB6060LCT-ND	1.32	10.56	79.20	NDB6060LTR-ND	570.24/800
		60	0.015	—	—	75	150		NDB7060CT-ND	13.80	103.50	690.00	NDB7060TR-ND	1235.52/800
		60	—	—	0.015	75	150		NDB7060LCT-ND	16.02	120.15	801.00	NDB7060LTR-ND	2840.88/800
Through-Hole Power MOSFET (TO-220AB)														
12	N-Chan.	30	0.022	0.04	—	25	50	TO-220AB	NDP603AL-ND	1.04	8.70	69.60	—	—
		50	—	—	0.1	15	50		NDP4050L-ND	1.04	8.70	69.60	—	—
		50	0.015	—	—	75	150		NDP7050-ND	3.51	28.08	218.40	—	—
		50	—	—	0.015	75	150		NDP7050L-ND	2.97	23.76	184.80	—	—
		60	0.1	—	—	15	50		NDP4060-ND	1.01	8.40	67.20	—	—
		60	—	—	0.1	15	50		NDP4060L-ND	1.04	8.70	69.60	—	—
		60	0.025	—	—	48	100		NDP6060-ND	1.62	12.96	97.20	—	—
		60	—	—	0.025	48	100		NDP6060L-ND	1.62	12.96	97.20	—	—
		60	0.015	—	—	75	150		NDP7060-ND	2.57	20.52	159.60	—	—
12	N-Chan.	30	0.010	—	—	70	150	Single	RFP70N03-ND	2.07	16.56	124.20	—	—
		50	0.100	—	—	14	48		RFP14N05-ND	1.08	9.00	72.00	—	—
		55	0.008	—	—	100	175		HRF3205-ND	1.95	15.62	117.15	—	—
		55	0.022	—	—	49	120		HRFZ44N-ND	1.04	8.70	69.60	—	—
		60	0.028	—	—	45	131		RFP45N06-ND	1.35	10.78	80.85	—	—
		60	0.022	—	—	50	131		RFP50N06-ND	1.39	11.55	92.40	—	—
		60	—	0.107‡	—	11	38		RFP3055LE-ND	.79	5.94	44.55	—	—
		60	—	0.047‡	—	30	96		RFP30N06LE-ND	.92	7.70	61.60	—	—
		100	—	1.050‡	—	2	25		RFP2N10L-ND	1.08	9.00	72.00	—	—
		100	0.064	—	—	22	85		IRF530NFS-ND	.94	7.80	62.40	—	—
		100	0.040	—	—	40	160		RFP40N10-ND	1.65	13.20	99.00	—	—
		100	—	0.2‡	—	12	60		RFP12N10L-ND	1.19	9.90	79.20	—	—
		1000	3.500	—	—	4.3	150		RFP4N100-ND	3.59	28.71	223.30	—	—
12	P-Chan.*	-50	0.150	—	—	-15	80	Single	RFP15P05-ND	1.29	10.32	77.40	—	—
		-50	0.300	—	—	-8	48		RFP8P05-ND	1.22	10.20	81.60	—	—
		-50	0.065	—	—	30	120		RFP30P05-ND	2.26	18.04	135.30	—	—
		-60	0.065	—	—	30	135		RFP30P06-ND	1.79	14.30	107.25	—	—
Through-Hole Power MOSFET (TO-92)														
13	N-Chan.	60	5	—	—	0.2	0.4	TO-92	2N7000FS-ND	.29	2.16	14.98	—	—
		60	5	—	—	0.5	0.83		BS170-ND	.36	2.70	18.72	—	—
TO-251AA														
14	N-Chan.	50	0.100	—	—	14	48	Single	RFD14N05-ND	.83	6.90	55.20	—	—
		50	0.047	—	—	16	72		RFD16N05-ND	1.19	9.90	79.20	—	—
		50	—	.100‡	—	14	48		RFD14N05L-ND	.90	7.50	60.00	—	—
		60	—	.107‡	—	11	38		RFD3055LE-ND	.79	6.60	52.80	—	—
		100	0.27	—	—	8.4	50		IRFU120FS-ND	1.01	8.40	67.20	—	—
		200	0.800	—	—	4.6	50		IRFU220FS-ND	.78	6.54	52.32	—	—
14	P-Chan.*	-50	0.150	—	—	-15	80	Single	RFD15P05-ND	1.44	12.00	96.00	—	—
		-50	0.300	—	—	-8	48		RFD8P05-ND	1.19	9.90	79.20	—	—
TO-247														
15	N-Chan.	60	0.014	—	—	70	150	Single	RFG70N06-ND	2.37	18.96	142.20	—	—
		500	0.270	—	—	20	250		IRFP460FS-ND	4.27	34.13	265.44	—	—
15	P-Chan.*	-50	0.030	—	—	60	215	Single	RFG60P05E-ND	11.50	103.50	917.70	—	—
TO-252AA														
16	N-Chan.	50	0.100	—	—	14	48	Single	RFD14N05SM-ND	.90	7.50	60.00	—	—
		50	—	0.100‡	—	14	48		RFD14N05LSM-ND	.90	7.50	60.00	—	—
		50	—	0.047‡	—	16	60		RFD16N05LSM-ND	1.33	11.10	88.80	—	—
		50	0.047	—	—	16	72		RFD16N05SM-ND	.90	7.50	60.00	—	—
		60	—	0.107‡	—	11	38		RFD3055LESM-ND	.86	7.20	57.60	—	—
		100	0.27	—	—	8.4	50		IRFR120FS-ND	.79	6.60	52.80	—	—
16	P-Chan.*	-30	—	0.200‡	—	10	65	Single	RFD10P03LSM-ND	1.37	11.40	91.20	—	—
		-50	0.150	—	—	-15	80		RFD15P05SM-ND	1.44	12.00	96.00	—	—
		-50	0.300	—	—	-8	48		RFD8P05SM-ND	1.19	9.90	79.20	—	—
8-SOIC														
17	N-Chan.	30	0.008	0.010	—	13	2.5	Single	FDS6670ACT-ND	1.49	12.38	99.00	FDS6670ATR-ND	1608.75/2,500
		30	0.0095	0.013	—	12.5	2.5	Single	FDS6680ACT-ND	1.02	8.53	68.20	FDS6680ATR-ND	1108.25/2,500
		50	0.130	—	0.200	3.0	2.0	Dual	SI9955DYCT-ND	.79	6.60	52.80	SI9955DYTR-ND	858.00/2,500

* V_{GS} are negative for P-Channel devices. † V_{GS} @ 2.5V ‡ V_{GS} @ 5V

Fig. 10

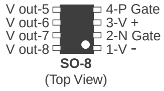


Fig. 11 **TO-263AB**

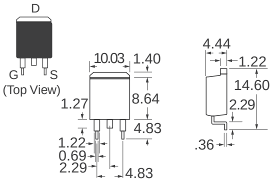


Fig. 12 **TO-220AB**

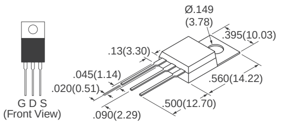
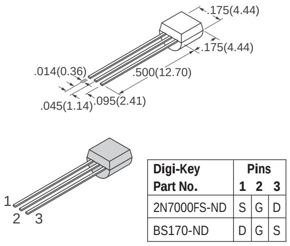


Fig. 13 **TO-92**



Digi-Key Part No.	Pins 1	2	3
2N7000FS-ND	S	G	D
BS170-ND	D	G	S

Fig. 14 **TO-251AA**

1. Gate
2. Drain
3. Source
4. Drain

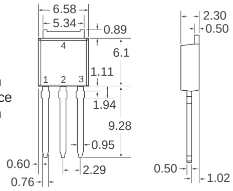


Fig. 15 **TO-247**

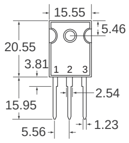


Fig. 16 **TO-252AA**

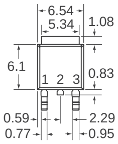
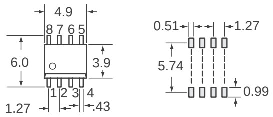


Fig. 17 **8-SOIC**



International
IOR Rectifier

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HEXFRED technology sets a new standard for high performance ultrafast diodes. This performance advantage can be utilized by the designer resulting in higher efficiency circuits and lower overall system cost. HEXFREDS will: • Allow IGBTS and MOSFETS to run cooler by 10°C, 20°C • Improve overall system efficiency by 1%, 2% • Reduce noise and the need for snubber circuitry • Allow for higher frequency operation • Allow many marginal circuits to work more reliably

Fig. 1

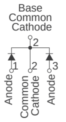


Fig. 2

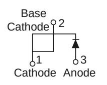


Fig. 3

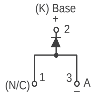


Fig. 4

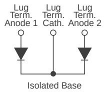


Fig. 5

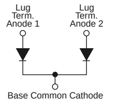


Fig. 6

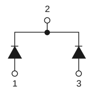


Fig. 7

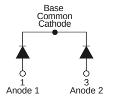


Fig. 8

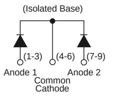


Fig. 9

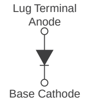


Fig. 10

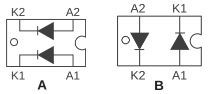


Fig. 11

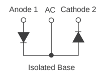


Fig. 12

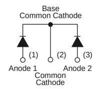


Fig. 13

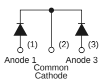
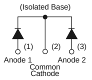
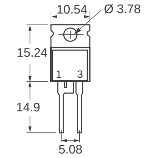


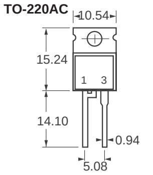
Fig. 14



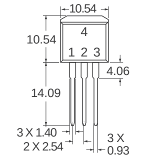
TO-220AB



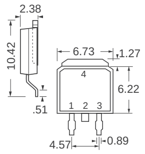
TO-220AC



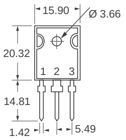
TO-262



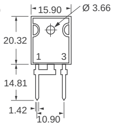
D-PAK



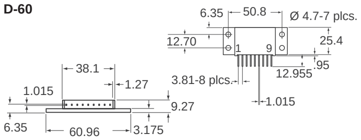
TO-247AC



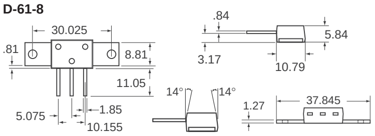
TO-247AC/ MOD



D-60



D-61-8



D-61-8SL

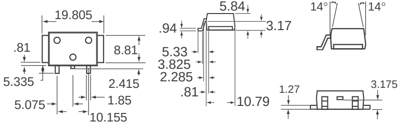
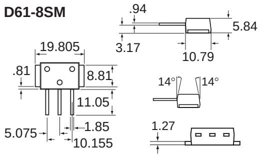
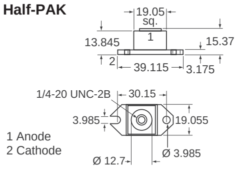


Fig.	Package	VR	VF	IF(AV) (A)	TRR(Typical) NS	QRR(Typical) NC	IRRM (A)	Digi-Key Part No.	Price Each 1	10	100
1	TO-220AB	200	0.975	16	25	23	1.7	MUR1620CTIR-ND	1.15	.92	.64
		600	1.7	16	18	65	5	HFA16TA60C-ND	2.43	2.07	1.71
		600	1.7	30	19	80	6	HFA30TA60C-ND	4.24	3.61	2.97
		600	1.8	8	42	40	5.2	HFA08TA60C-ND	2.52	2.02	1.52
2	TO-220AC	600	1.7	8	18	65	5	HFA08TB60-ND	1.58	1.35	1.11
		600	1.7	15	19	80	6	HFA15TB60-ND	3.04	2.13	1.71
		600	1.7	25	23	112	10	HFA25TB60-ND	3.60	3.06	2.52
1	D-Pak	200	1.2	6	25	60	4.6	MURD620CT-ND	.95	.76	.53
1	TO-247AC	600	1.7	30	19	80	6	HFA30PA60C-ND	5.32	4.53	3.73
1		600	1.7	16	55	60	5	HFA16PA60C-ND	3.07	2.46	1.76
7		1200	2.4	6	26	116	4.4	HFA12PA120C-ND	8.51	6.81	5.11
2		1200	3.3	8.0	28	140	4.5	HFA16PA120C-ND	9.56	7.65	5.74
7		1200	2.3	16	30	260	5.8	HFA32PA120C-ND	17.33	13.86	10.40
2	TO-247AC/MOD	1200	2.4	30	37	490	8.1	HFA30PB120-ND	15.95	12.77	9.58
		1200	3	8	28	140	4.5	HFA08PB120-ND	5.63	4.50	3.38
		600	1.7	15	19	80	6	HFA15PB60-ND	2.36	2.01	1.66
		600	1.7	25	23	112	10	HFA25PB60-ND	5.28	3.90	3.23
		1200	3.0	16	30	260	5.8	HFA16PB120-ND	8.36	7.11	5.86
		600	1.7	8	55	65	5	HFA08PB60-ND	2.20	1.77	1.26
		1200	3	6	26	80	4.4	HFA06PB120-ND	5.50	4.40	3.14
8	D-60	600	1.1	60	30	200	6	HFA60MB60C-ND	42.86	34.29	25.72
		400	1	75	30	200	6	HFA75MB40C-ND	42.53	34.02	25.52
12	D61-8	600	1.2	70	30	210	6	HFA70NC60C-ND	23.85	19.08	14.31
		400	1	80	30	200	6	HFA80NC40C-ND	23.92	19.14	14.36
7	D-61-8SL	400	1	80	30	200	6	HFA80NC40CSL-ND	23.92	19.14	12.76
		600	1.2	70	30	210	6	HFA70NC60CSL-ND	23.85	19.08	14.31
13	D61-8SM	600	1.2	70	30	210	6	HFA70NC60CSM-ND	23.85	19.08	14.31
		400	1	80	30	200	6	HFA80NC40CSM-ND	23.92	19.14	14.36
9	HALF-PAK	600	1.2	105	35	450	10	HFA105NH60-ND	34.49	27.60	20.70
		400	1	135	50	290	7.5	HFA135NH40-ND	35.64	28.52	21.39
		600	1.3	140	39	490	9.3	HFA140NH60-ND	43.43	34.74	26.06
		400	1.1	180	45	420	8.7	HFA180NH40-ND	44.66	35.73	26.80
		400	1.1	180	45	420	8.7	HFA180NH40R-ND	45.83	36.67	28.42
		600	1.2	70	33	340	8.5	HFA70NH60-ND	26.10	20.88	15.66
		400	10	90	36	420	9.3	HFA90NH40-ND	26.73	21.39	16.04
6	SMD-220	600	1.8	8	42	40	5.2	HFA08TA60CS-ND	2.81	2.25	1.69
3		600	1.8	4.0	42	40	5.2	HFA04TB60S-ND	2.09	1.68	1.26
3		1200	3	6	26	116	4.4	HFA06TB120S-ND	4.79	3.84	2.88
3		1200	3	8	28	140	4.5	HFA08TB120S-ND	5.45	4.36	3.27
6		600	1.7	8.0	18	65	5.0	HFA16TA60CS-ND	4.28	3.42	2.57
2		1200	2.3	16	30	260	5.8	HFA16TB120S-ND	11.52	9.22	6.92
3		600	1.7	15	23	84	6.0	HFA15TB60S-ND	3.71	2.97	2.23
3		600	1.3	25	23	112	10	HFA25TB60S-ND	5.06	4.05	3.04
3		600	1.4	8	18	65	5	HFA08TB60STRL-ND		572.80/800	
6		600	1.2	15	19	80	4.0	HFA30TA60CS-ND	6.12	4.90	3.68
10A	SOT-227	600	1.4	120	65	270	7.0	HFA120FA60-ND	34.07	27.26	20.44
10B		600	1.4	60	65	270	7.0	HFA120EA60-ND	37.55	31.30	27.46
4	TO-244AB ISO	600	1.4	100	33	300	8	HFA100MD60C-ND	49.41	39.53	29.65
11		600	1.4	100	33	300	8	HFA100MD60D-ND	50.83	40.67	30.50
11		400	0.9	120	36	420	9.3	HFA120MD40D-ND	92.68	74.15	55.61
4		400	0.9	120	36	420	9.3	HFA120MD40C-ND	91.26	73.01	54.76
4		600	1.2	140	35	360	8.0	HFA140MD60C-ND	93.17	74.54	55.91
11		600	1.2	140	35	360	8.0	HFA140MD60D-ND	94.59	75.68	56.76
4		400	0.9	160	50	260	7.1	HFA160MD40C-ND	95.92	76.74	57.56
11		400	0.9	160	50	260	7.1	HFA160MD40D-ND	97.34	77.87	58.41
5		600	1.5	180	140	—	17	HFA180MD60D-ND	109.80	87.84	68.08
5		600	1.5	180	140	—	17	HFA180MD60C-ND	108.38	86.71	67.20
4		400	0.9	200	45	330	8.1	HFA200MD40C-ND	111.89	89.52	67.14
11		400	0.9	200	45	330	8.1	HFA200MD40D-ND	111.69	89.36	67.02
5	TO-244AB	600	1.2	140	33	340	8.5	HFA140NJ60C-ND	58.46	46.77	35.08
		600	1.2	140	33	340	8.5	HFA140NJ60D-ND	59.85	47.88	35.91
		400	1	160	36	420	9.3	HFA160NJ40C-ND	62.24	49.79	37.35
		400	1	160	36	420	9.3	HFA160NJ40D-ND	63.63	50.91	38.18
		600	1.2	210	35	450	10	HFA210NJ60C-ND	82.19	65.76	49.32
		600	1.2	210	35	450	10	HFA210NJ60D-ND	83.59	66.87	50.16
		400	1	240	50	290	7.5	HFA240NJ40C-ND	77.81	62.25	46.69
		400	1	240	50	290	7.5	HFA240NJ40D-ND	77.78	62.23	46.67
		600	1.3	280	39	490	93	HFA280NJ60C-ND	94.03	75.23	56.42
		600	1.3	280	39	490	93	HFA280NJ60D-ND	95.42	76.34	57.26
		400	1	320	45	420	8.7	HFA320NJ40C-ND	98.08	78.47	58.85
		400	1	320	45	420	8.7	HFA320NJ40D-ND	99.47	79.58	59.69
1	TO-249AA	600	1.1	60	30	200	6	HFA60MC60C-ND	42.86	34.29	25.72
14		400	1	75	30	200	6	HFA75MC40C-ND	42.53	34.02	25.52
14		400	1	80	30	200	6	HFA80NK40C-ND	24.73	19.79	14.84
1	TO-262	600	1.7	15	60	600	6	HFA15TB60-1-ND	2.08	1.46	1.11

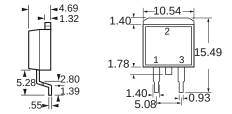
D61-8SM



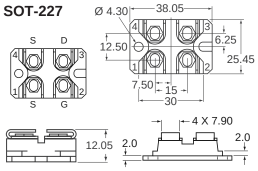
Half-PAK



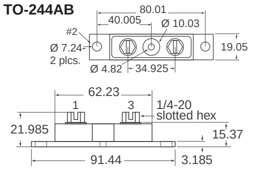
SMD-220



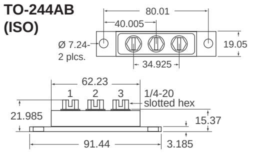
SOT-227



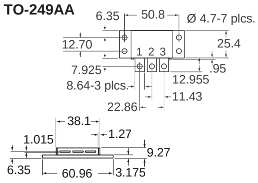
TO-244AB



TO-244AB (ISO)



TO-249AA



International
IOR Rectifier

N and P Channel HEXFETs

Electrical characteristics at 25°C unless otherwise noted.
Dimensions shown in mm

Fig. 1 — TO-220AB

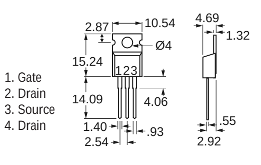


Fig. 2 — TO-220 Fullpak

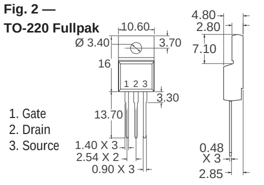


Fig. 3 — TO-247AC

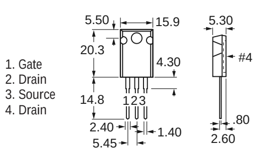


Fig. 4 — TO-262

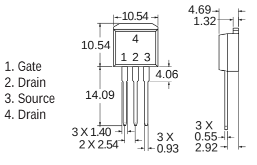


Fig. 5 — I-Pak

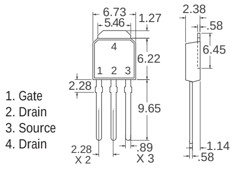


Fig. 6 — 4-Pin Dip (HEXDIP®)

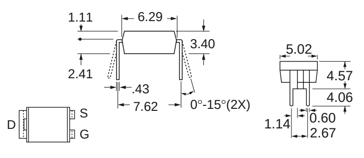


Fig. 7 — SMD-220/D²Pak

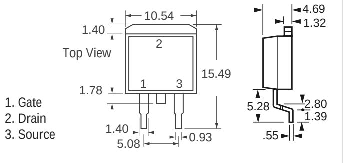


Fig. 8 — DPak

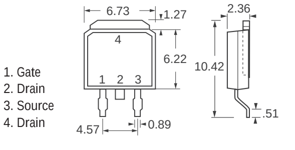


Fig. 9 — Micro-3™ (SOT-23)

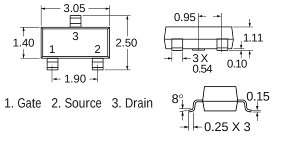


Fig. 10 — Micro-6™/TSOP-6
Surface Mount

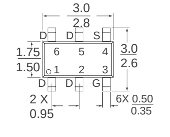


Fig. 11 — Micro-8™ Outline

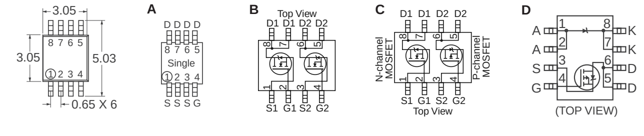


Fig. 12 — SOT-223

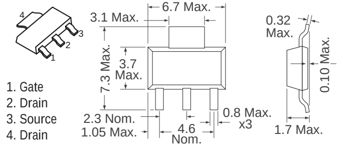


Fig. 13 — SO-8/SOIC-8

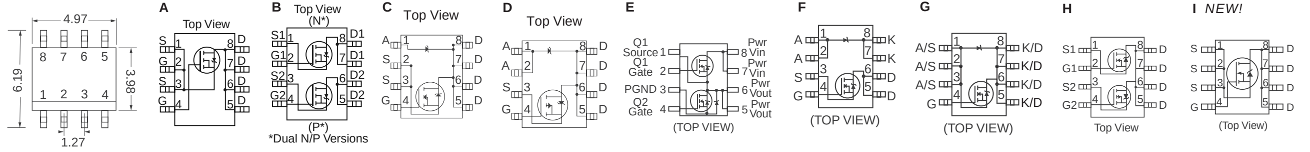


Fig. 14 — TO-220-5

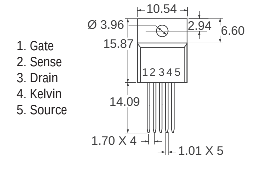


Fig. 15 — Super 247

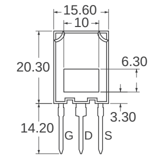


Fig. 16 — Super-220™

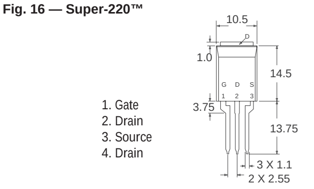


Fig. 17 — Super TO-247

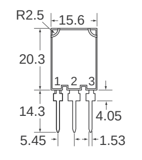


Fig. 18 — SOT-227

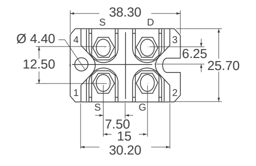


Fig. 19 — 8-TSSOP

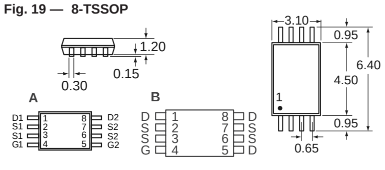


Fig. 20 — FlipFET™

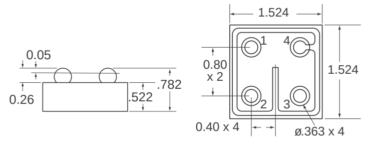


Fig. 21 — FlipFET™

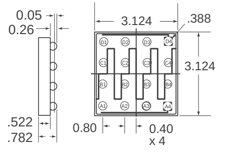


Fig. 22 — DirectFET™ *NEW!*

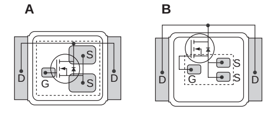


Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
P-CHANNEL TYPES									
TO-220AB									
1	-50	0.28	-9.7	—	—	IRF9Z20-ND	1.18	.95	.68
	-50	0.14	-18	—	—	IRF9Z30-ND	1.28	1.03	.74
	-55	0.1	-17	-68	56	IRF9Z34N-ND	1.72	1.14	.89
	-55	0.175	-12	-48	45	IRF9Z24N-ND	.93	.66	.55
	-55	0.02	-64	-260	150	IRF4905-ND	3.21	2.36	1.95
	-55	0.06	-31	-110	110	IRF5305-ND	1.84	1.21	.94
	-60	0.5	-6.7	-27	43	IRF9Z14-ND	.91	.65	.54
	-60	0.28	-11	-44	60	IRF9Z24-ND	.99	.79	.57
	-100	1.2	-3	-12	20	IRF9510-ND	1.16	.75	.58
	-100	0.2	-13	-56	75	IRF9530N-ND	1.19	.85	.70
	-100	0.117	-19	-76	94	IRF9540N-ND	2.02	1.38	1.09
	-100	0.06	-35	-140	150	IRF5210-ND	3.79	2.64	2.11
	-100	0.48	-6.8	-27	48	IRF9520N-ND	1.04	.83	.63
	-150	0.29	-11	-44	83	IRF6215-ND	2.09	1.37	1.05
	-200	3.00	-1.9	—	—	IRFI9610G-ND	1.45	1.16	.87
	-200	3	-1.75	-7	20	IRF9610-ND	.82	.59	.49
	-200	1.5	-3.5	-14	40	IRF9620-ND	.89	.63	.52
	-200	0.8	-6.5	-26	75	IRF9630-ND	1.56	1.05	.82
	-200	0.5	-11	-44	125	IRF9640-ND	1.90	1.31	1.04
	-200	0.50	-6.1	-24	40	IRFI9640G-ND	2.66	2.13	1.60
TO-220 Fullpak									
2	-60	0.14	-12	-48	42	IRFI9Z34G-ND	2.03	1.63	1.17
	-60	0.50	-5.3	-21	27	IRFI9Z14G-ND	1.15	.92	.69
	-100	0.30	-7.7	-31	42	IRFI9530G-ND	1.78	1.43	1.02
	-100	0.117	-13	-44	48	IRFI9540G-ND	3.23	2.58	1.84

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25° C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
2	-200	1.5	-3	-12	30	IRFI9620G-ND	2.00	1.60	1.14
	-200	0.8	-4.3	-17	35	IRFI9630G-ND	1.69	1.36	.97
	-250	1.0	-4.1	-16	35	IRFI9634G-ND	2.03	1.62	1.22
TO-247AC									
3	-100	.20	-21	—	180	IRFP9140-ND	2.67	1.89	1.56
	-100	0.117	-23	-76	140	IRFP9140N-ND	2.99	2.39	1.71
	-200	.5	-12	—	150	IRFP9240-ND	3.81	2.70	2.23
TO-262									
4	-55	0.06	-31	-110	3.8	IRF5305L-ND	1.43	1.43	1.07
	-55	0.28	-12	-48	3.8	IRF9Z24NL-ND	1.35	1.08	.81
	-55	0.10	-19	-68	3.8	IRF9Z34NL-ND	1.94	1.55	1.17
	-55	0.02	-74	-260	200	IRF4905L-ND	2.45	1.96	1.40
	-60	0.50	-6.7	-27	3.7	IRF9Z14L-ND	1.26	1.01	.76
	-100	0.20	-14	-56	3.8	IRF9530NL-ND	1.80	1.44	1.08
	-100	0.11	-23	-76	3.8	IRF9540NL-ND	2.63	2.11	1.58
	-100	1.2	-4.0	-16	43	IRF9510L-ND	1.46	1.17	.88
	-100	0.06	-40	-140	3.8	IRF5210L-ND	2.65	2.65	1.99
	-150	0.29	-13	-44	3.8	IRF6215L-ND	1.53	1.23	.92
	-200	0.50	-11	-44	125	IRF9640L-ND	2.77	2.22	1.67
	-200	3.0	-1.8	-7	20	IRF9610L-ND	1.42	1.14	.85
	-200	0.80	-6.5	-26	74	IRF9630L-ND	2.09	1.68	1.26
I-Pak									
5	-50	0.5	-5.3	-21	25	IRFU9010-ND	.99	.80	.60
	-50	0.28	-9.9	—	—	IRFU9020-ND	1.53	1.22	.87
	-55	0.065	-28	-110	110	IRFU5305-ND	1.80	1.44	1.03
	-55	0.11	-18	-64	57	IRFU5505-ND	1.33	1.06	.76

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
5	-55	0.175	-11	-44	38	IRFU9024N-ND	1.23	.98	.74
	-60	0.5	-5.1	-20	25	IRFU9014-ND	.90	.72	.52
	-60	0.28	-8.8	-35	42	IRFU9024-ND	1.19	.95	.68
	-100	0.205	-13	-52	66	IRFU5410-ND	1.23	.66	.59
	-100	1.2	-3.1	-12	25	IRFU9110-ND	.69	.55	.40
	-100	0.6	-5.6	-22	42	IRFU9120-ND	.85	.68	.49
	-100	0.48	-6.5	-26	40	IRFU9120N-ND	.90	.72	.52
	-150	2.0	-13	-44	110	IRFU6215-ND	1.44	1.16	.87
	-200	3.0	-1.9	-7.6	25	IRFU9210-ND	.76	.61	.44
	-200	1.5	-3.6	-14	42	IRFU9220-ND	1.21	.97	.70
	-250	3.0	-2.7	-11	50	IRFU9214-ND	1.13	.90	.68
	-400	7.0	-1.8	-7.2	50	IRFU9310-ND	1.15	.92	.69
4-Pin Dip									
6	-50	0.5	-1.1	—	—	IRFD9010-ND	.70	.56	.40
	-50	0.28	-1.6	—	—	IRFD9020-ND	1.31	.85	.65
	-60	0.28	-1.6	-13	1.3	IRFD9024-ND	.88	.71	.51
	-60	0.5	-1.1	-8.8	1.3	IRFD9014-ND	1.17	.75	.56
	-100	1.2	-0.7	-3	1.0	IRFD9110-ND	1.16	.75	.56
	-100	0.6	-1.0	-8	1.0	IRFD9120-ND	1.09	.71	.54
	-200	3	-0.4	-1.6	1.0	IRFD9210-ND	.74	.53	.43
	-200	1.5	-0.6	-4.8	1.0	IRFD9220-ND	.83	.59	.49
SMD-220/D²Pak									
7	-55	0.02	-74	-260	200	IRF4905S-ND	3.55	2.62	2.17
	-55	0.02	-74	-260	200	IRF4905STRL-ND		1591.20/800	
	-55	0.06	-31	-110	110	IRF5305S-ND	1.98	1.58	1.13
	-55	0.175	-12	-48	45	IRF9Z24NS-ND	1.50	1.20	.86
	-55	0.1	-19	-68	68	IRF9Z34NS-ND	1.05	.84	.61
	-55	0.1	-19	-68	68	IRF9Z34NSTRL-ND		453.60/800	
	-60	0.28	-11	-44	60	IRF9Z24S-ND	1.00	.80	.58
	-60	0.28	-11	-44	60	IRF9Z24STRR-ND		432.00/800	
	-60	0.5	-6.7	-27	43	IRF9Z14S-ND	1.40	1.12	.80
	-60	0.14	-18	-72	88	IRF9Z34S-ND	1.30	1.04	.75
	-60	0.14	-18	-72	88	IRF9Z34STRL-ND		561.60/800	
	-100	0.3	-12	-48	88	IRF9530S-ND	1.25	1.00	.72
	-100	0.3	-12	-48	88	IRF9530STRL-ND		540.00/800	
	-100	0.2	-19	-72	150	IRF9540S-ND	1.70	1.36	.97
	-100	0.2	-19	-72	150	IRF9540STRL-ND		734.40/800	
	-100	0.48	-6.8	-27	48	IRF9520NS-ND	1.40	1.12	.80
	-100	0.2	-14	-56	79	IRF9530NS-ND	1.60	1.28	.92
	-100	0.117	-23	-76	140	IRF9540NS-ND	1.36	.97	.80
	-100	0.117	-23	-76	140	IRF9540NSTRL-ND		610.40/800	
	-100	0.06	-40	-140	200	IRF5210S-ND	2.57	1.82	1.50
	-100	0.06	-40	-140	200	IRF5210STRL-ND		1156.00/800	
	-100	0.06	-40	-140	200	IRF5210STRR-ND		1156.00/800	
	-100	1.2	-4	-16	43	IRF9510S-ND	.92	.74	.53
	-150	0.29	-13	-44	110	IRF6215S-ND	1.20	.96	.69
	-150	0.29	-13	-44	110	IRF6215STRR-ND		518.40/800	
	-200	3	-1.8	-7	20	IRF9610S-ND	1.58	1.26	.90
	-200	1.5	-3.5	-14	40	IRF9620S-ND	2.13	1.70	1.21
	-200	0.8	-6.5	-26	74	IRF9630S-ND	2.33	1.86	1.33
	-200	0.5	-11	-44	125	IRF9640S-ND	1.78	1.42	1.02
	-200	0.5	-11	-44	125	IRF9640STRL-ND		767.20/800	
DPak (TO-252AA)									
8	-50	0.5	-5.3	—	—	IRFR9010-ND	.70	.56	.41
	-50	0.5	-5.3	—	—	IRFR9010TR-ND		756.00/2,000	
	-50	0.28	-9.9	—	—	IRFR9020-ND	.94	.75	.54
	-50	0.28	-9.9	—	—	IRFR9020TR-ND		1012.00/2,000	
	-55	0.065	-31	-110	110	IRFR5305-ND	1.20	.85	.70
	-55	0.065	-31	-110	110	IRFR5305TR-ND		1336.00/2,000	
	-55	0.11	-18	-64	57	IRFR5505-ND	1.33	1.06	.76
	-55	0.175	-11	-44	38	IRFR9024N-ND	1.03	.66	.50
	-55	0.175	-11	-44	38	IRFR9024NTR-ND		802.00/2,000	
	-60	0.5	-5.1	-20	25	IRFR9014-ND	.70	.56	.41
	-60	0.5	-5.1	-20	25	IRFR9014TR-ND		756.00/2,000	
	-60	0.5	-5.1	-20	25	IRFR9014TRL-ND		1134.00/3,000	
	-60	0.28	-8.8	-35	42	IRFR9024-ND	1.25	.82	.63
	-60	0.28	-8.8	-35	42	IRFR9024TR-ND		1012.00/2,000	
	-100	0.205	-13	-52	66	IRFR5410-ND	2.18	1.75	1.31
	-100	1.2	-3.1	-12	25	IRFR9110-ND	.69	.55	.40
	-100	1.2	-3.1	-12	25	IRFR9110TR-ND		742.00/2,000	
	-100	1.2	-3.1	-12	25	IRFR9110TRL-ND		1113.00/3,000	
	-100	0.48	-6.5	-26	40	IRFR9120N-ND	.72	.51	.42
	-100	0.48	-6.5	-26	40	IRFR9120NTR-ND		820.00/2,000	
	-100	0.6	-5.6	-22	42	IRFR9120TR-ND		912.00/2,000	
	-100	0.6	-5.6	-22	42	IRFR9120TRL-ND		1368.00/3,000	
	-200	3	-1.9	-7.6	25	IRFR9210-ND	.75	.60	.45
	-200	3	-1.9	-7.6	25	IRFR9210TR-ND		810.00/2,000	
	-200	1.5	-3.6	-14	42	IRFR9220-ND	.88	.71	.51
	-200	1.5	-3.6	-14	42	IRFR9220TR-ND		942.00/2,000	
	-250	3	-2.7	-11	50	IRFR9214-ND	.85	.68	.49
	-400	7	-1.8	-7.2	50	IRFR9310-ND	.82	.66	.47
	-400	7	-1.8	-7.2	50	IRFR9310TR-ND		916.00/2,000	
Micro-3 (SOT-23) Logic Level									
9	-12	0.05	-4.3	-34	1.3	IRLML6401CT-ND	.66	.50	.39
	-12	0.05	-4.3	-34	1.3	IRLML6401TR-ND		588.00/3,000	
	-20	0.6	-0.62	-4.9	0.54	IRLML6302CT-ND	.66	.50	.39
	-20	0.6	-0.62	-4.9	0.54	IRLML6302TR-ND		441.00/3,000	
	-20	0.065	-3.7	-22	1.3	IRLML6402CT-ND	.66	.50	.39
	-20	0.065	-3.7	-22	1.3	IRLML6402TR-ND		588.00/3,000	
	-30	0.6	-0.61	-4.8	0.54	IRLML5103CT-ND	.72	.54	.42
	-30	0.6	-0.61	-4.8	0.54	IRLML5103TR-ND		543.00/3,000	
Micro-6 (TSOP-6) Logic Level									
10	-12	0.042	-5.5	-44	1.7	IRLMS4502CT-ND	1.00	.62	.45
	-12	0.042	-5.5	-44	1.7	IRLMS4502TR-ND		1014.00/3,000	

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
10	-20	0.2	-2.3	-13	1.7	IRLMS6702CT-ND	1.25	.75	.58
	-20	0.2	-2.3	-13	1.7	IRLMS6702TR-ND		985.92/3,000	
	-20	0.05	-5.6	-45	2	IRLMS6802CT-ND	.96	.72	.56
	-20	0.05	-5.6	-45	2	IRLMS6802TR-ND		987.00/3,000	
	-30	0.2	-2.3	-13	1.7	IRLMS5703CT-ND	1.25	.75	.58
	-30	0.2	-2.3	-13	1.7	IRLMS5703TR-ND		739.44/3,000	
Micro-6 (TSOP-6)									
10	-20	0.065	-4.4	-20	2	SI3443DVCT-ND	.68	.54	.48
	-20	0.065	-4.4	-20	2	SI3443DVTR-ND		1122.00/3,000	
Micro-8									
11A	-30	0.026	-7.0	-28	1.79	IRF7726CT-ND	1.59	.92	.77
	-30	0.026	-7.0	-28	1.79	IRF7726TR-ND		1996.00/4,000	
Micro-8 Logic Level									
11A	-20	0.09	-3.6	-19	1.8	IRF7604CT-ND	2.37	1.78	1.39
	-20	0.09	-3.6	-19	1.8	IRF7604TR-ND		3204.00/4,000	
	-20	0.02	-8.2	-66	1.8	IRF7663CT-ND	2.10	1.58	1.23
	-20	0.02	-8.2	-66	1.8	IRF7663TR-ND		1748.00/4,000	
	-30	0.09	-3.6	-19	1.8	IRF7606CT-ND	2.10	1.58	1.23
	-30	0.09	-3.6	-19	1.8	IRF7606TR-ND		3780.00/4,000	
	-30	0.20	-2.0	-16	1.25	IRF7526D1TR-ND		1944.00/4,000	
11D	-20	0.27	-1.7	-14	1.25	IRF7524D1CT-ND	1.20	.90	.70
	-20	0.27	-1.7	-14	1.25	IRF7524D1TR-ND		2160.00/4,000	
	-20	0.055	-4.3	-34	1.25	IRF7534D1TR-ND		2700.00/4,000	
Micro-8 Dual Logic Level									
11B	-20	0.27	-1.7	-9.6	1.25	IRF7504CT-ND	2.10	1.58	1.23
	-20	0.27	-1.7	-9.6	1.25	IRF7504TR-ND		1404.00/4,000	
	-20	0.055	-4.3	-34	1.25	IRF7555CT-ND	2.10	1.58	1.23
	-20	0.055	-4.3	-34	1.25	IRF7555TR-ND		3780.00/4,000	
	-30	0.27	-1.7	-9.6	1.25	IRF7506CT-ND	1.89	1.42	1.11
	-30	0.27	-1.7	-9.6	1.25	IRF7506TR-ND		2556.00/4,000	
SOT-223									
12	-60	0.5	-1.8	-14	3.1	IRFL9014-ND	.87	.58	.45
	-60	0.5	-1.8	-14	3.1	IRFL9014TR-ND		892.50/2,500	
	-100	1.2	-1.1	-8.8	3.1	IRFL9110-ND	.80	.64	.46
	-100	1.2	-1.1	-8.8	3.1	IRFL9110TR-ND		1062.50/2,500	
SOIC-8									
13A	-12	0.020	±9.5	±76	2.5	IRF7233-ND	2.54	2.04	1.53
	-12	7	-16	-65	2.5	IRF7410-ND	2.90	2.02	1.57
	-12	14	-11.5	-46	2.5	IRF7420-ND	2.11	1.48	1.12
	-20	0.06	-5.4	-43	2.5	IRF7207-ND	1.76	1.41	1.06
	-20	8.2	-15	-60	2.5	IRF7425-ND	1.84	1.05	.85
	-30	0.02	-5.6	-45	1	IRF7416-ND	1.22	.87	.72
	-30	0.02	-5.6	-45	1	IRF7416TR-ND		2544.00/4,000	
	-30	.013	-11	-47	2.5	IRF7424-ND	2.01	1.14	.93
	-40	0.015	-10.5	-43	2.5	IRF7240-ND	3.86	2.76	2.24
SOIC-8 Logic Level									
13A	-12	0.005	-16	-100	2.5	IRF7210-ND	3.13	2.50	1.78
	-14	0.012	-11	-88	2.5	IRF7220-ND	2.83	2.26	1.61
	-14	0.012	-11	-88	2.5	IRF7220TR-ND		2216.00/4,000	
	-20	0.058	-5.3	-43	2.0	IRF7322D1-ND	1.01	.81	.61
	-20	0.04	-6.7	-27	2.5	IRF7404-ND	.88	.71	.51
	-20	0.04	-6.7	-27	2.5	IRF7404TR-ND		1896.00/4,000	
	-20	0.06	-5.3	-21	1.6	IRF7204CT-ND	3.39	2.55	1.98
	-20	0.06	-5.3	-21	1.6	IRF7204TR-ND		1640.00/4,000	
	-30	0.07	-5.3	—	2.5	IRF7205-ND	1.11	.74	.58
	-30	0.07	-5.3	—	2.5	IRF7205TR-ND		1790.29/4,000	
	-30	0.045	-5.8	-23	2.5	IRF7406-ND	1.15	.93	.67
	-30	0.02	-30	-50	2.5	SI4435DY-ND	1.50	1.20	.85
	-30	0.02	-30	-50	2.5	SI4435DYTR-ND		3240.00/4,000	
SOIC-8 Dual Logic Level									
13B	-12	17	-9.2	-37	2	IRF7329-ND	1.37	.72	.65
	-20	.25	-2.3	-10	2	IRF7104-ND	.77	.55	.45
	-20	.25	-2.3	-10	2	IRF7104TR-ND		1728.00/4,000	
	-20	0.09	-4.3	-17	2	IRF7304-ND	.88	.70	.50
	-20	0.09	-4.3	-17	2	IRF7304TR-ND		1780.00/4,000	
	-20	0.058	-5.3	-21	2	IRF7314-ND	.97	.69	.57
	-20	0.058	-5.3	-21	2	IRF7314TR-ND		2176.00/4,000	
	-20	0.018	-9	-71	2	IRF7324-ND	2.83	2.26	1.61
	-20	0.18	-2.9	-23	2	IRF7324D1-ND	1.03	.82	.56
	-30	0.1	-3.6	-14	2	IRF7306-ND	.85	.69	.49
	-30	0.1	-3.6	-14	2	IRF7306TR-ND		1840.00/4,000	
	-30	0.058	-4.9	-30	2	IRF7316-ND	.98	.70	.58
	-30	0.058	-4.9	-30	2	IRF7316TR-ND		2204.00/4,000	
	-30	21	-8.0	-32	2	IRF7328-ND	1.94	1.11	.90
	-30	0.25	-2.3	-10	2	IRF9953-ND	1.75	1.40	1.00
	-55	0.105	-3.4	-27	2	IRF7342-ND	1.06	.85	.61
	-55	0.105	-3.4	-27	2	IRF7342TR-ND		2296.00/4,000	
SOIC-8 "Fetky™" Mosfet and Schottky Diode									
13D	-30	0.062	-4.7	-38	2	IRF7321D2-ND	1.42	1.14	.77
	-30	0.062	-4.7	-38	2	IRF7321D2TR-ND		3060.00/4,000	
SOIC-8 "Fetky™" Mosfet and Schottky Diode Logic Level									
13D	-20	0.09	-4.1	-18	2	IRF7422D2-ND	1.20	.85	.70
TSOP-6									
10	-20	0.065	-4.4	-20	2.0	SI3443DV-ND	1.08	.65	.50
TSSOP-8									
19B	-12	0.011	±10	±80	1.5	IRF7701-ND	1.84	1.05	.85
	-12	0.015	±8.0	±70	1.5	IRF7702-ND	3.27	2.29	1.79
	-20	22	-7.0	-28	1.5	IRF7707-ND	1.70	.97	.80
	-30	18	-8.0	-30	1.5	IRF7705-ND	1.65	.94	.80
	-30	22	-7.0	-28	1.51	IRF7706-ND	1.63	.88	.79
	-40	28	-6.0	-24	1.5	IRF7703-ND	1.71	.97	.79
	-40	46	-4.6	-19	1.5	IRF7704-ND	1.44	.82	.70

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
						TSSOP Dual-8			
19A	-12	0.040	±4.3	-17	1.0	IRF7756-ND	1.71	.97	.79
	-20	0.030	±4.7	38	1.0	IRF7750-ND	3.24	2.27	1.77
	-20	0.030	±4.7	±38	1.0	IRF7750CT-ND	2.92	2.19	1.71
	-20	0.030	±4.7	±38	1.0	IRF7750TR-ND	5248.00/4,000		
	-20	51	-3.9	.15	1.0	IRF7755-ND	1.71	.97	.79
						FlipFET™			
20	-20	0.065	±5.1	±35	2.2	IRF6100CT-ND	1.08	.65	.50
21	-20	0.036	±7.1	±40	3.0	IRF6150CT-ND	2.95	2.06	1.59
21	-20	0.036	±7.1	±40	3.0	IRF6150TR-ND	5024.00/4,000		
						N-CHANNEL TYPES			
						TO-220AB			
1	20	0.0085	77	280	88	IRF3706-ND	1.40	1.12	.84
	20	6.0	110	440	120	IRF3711-ND	1.78	1.01	.82
	20	20	36	140	47	IRL3714-ND	.94	.56	.43
	20	14	54	210	71	IRL3715-ND	.94	.56	.43
	30	.006	140	470	2000	IRL3803-ND	3.35	2.38	1.96
	30	2.8	210	1000	230	IRF3703-ND	4.87	3.37	2.84
	30	9.0	90	360	120	IRF3709-ND	1.78	1.01	.82
	40	0.009	100	400	170	IRF1104-ND	2.43	1.94	1.38
	40	0.0023	280	1080	330	IRF2804-ND *NEW!*	3.33	2.22	1.80
	50	0.2	7.2	29	20	IRFZ10-ND	1.10	.88	.66
	50	0.05	30	—	—	IRFZ30-ND	1.25	1.00	.71
	50	0.028	35	—	—	IRFZ40-ND	1.51	1.21	.87
	55	0.024	31	160	45	IRFIZ44N-ND	1.55	1.10	.91
	55	0.02	33	180	45	IRFIZ46N-ND	1.89	1.34	1.11
	55	0.016	36	210	42	IRFIZ48N-ND	1.74	1.24	1.02
	55	0.04	26	100	56	IRFZ34N-ND	1.24	.81	.62
	55	0.024	49	160	83	IRFZ44N-ND	1.66	1.09	.84
	55	0.02	46	180	88	IRFZ46N-ND	1.58	1.06	.83
	55	0.016	53	210	94	IRFZ48N-ND	1.64	1.16	.93
	55	0.012	85	290	130	IRF1010N-ND	2.06	1.46	1.21
	55	0.0053	169	680	330	IRF1405-ND	4.13	3.30	2.48
	55	0.008	98	390	150	IRF3205-ND	2.87	2.09	1.71
	20	0.090	77	308	87	IRF3704-ND	1.40	1.12	.84
	55	0.012	49	290	58	IRFI1010N-ND	3.36	2.38	1.96
	55	0.008	64	390	63	IRFI3205-ND	6.36	4.51	3.71
	55	0.07	13	—	26	IRFIZ24N-ND	1.08	.77	.63
	55	0.04	19	100	21	IRFIZ34N-ND	1.20	.85	.70
	60	12	84	330	200	IRF1010E-ND	2.75	1.95	1.61
	60	0.2	10	40	36	IRFZ14-ND	1.11	.70	.52
	60	0.05	30	120	88	IRFZ34-ND	1.25	1.00	.71
	60	0.042	28	112	68	IRFZ34E-ND	1.25	.89	.73
	60	0.023	48	192	110	IRFZ44E-ND	1.62	1.07	.82
	60	0.028	50	200	150	IRFZ44R-ND	1.84	1.05	.85
	60	0.0165	55	220	115	IRFZ44V-ND	.98	.78	.69
	60	0.018	50	290	190	IRFZ48R-ND *NEW!*	2.21	1.43	1.21
	60	0.012	72	290	150	IRFZ48V-ND	1.05	.84	.74
	60	0.071	14	68	29	IRFIZ24E-ND	1.08	.77	.63
	60	0.042	21	100	37	IRFIZ34E-ND	1.63	1.16	.96
	60	0.012	81	330	170	IRF1010E-ND	2.75	1.95	1.61
	75	0.0078	130	520	330	IRF1407-ND	2.60	1.81	1.40
	75	0.0075	142	570	380	IRF1607-ND	4.31	3.08	2.50
	75	0.013	71	280	150	IRF2807-ND	3.38	2.32	1.84
	100	0.6	4.0	16	20	IRF510-ND	1.08	.68	.50
	100	0.27	9.2	37	60	IRF520-ND	.78	.63	.55
	100	0.20	9.7	38	48	IRF520N-ND	.88	.71	.53
	100	0.11	15.0	60	63	IRF530NIR-ND	1.38	.90	.68
	100	0.077	28	110	150	IRF540-ND	1.38	.93	.72
	100	0.052	27	110	94	IRF540NIR-ND	1.74	1.16	.91
	100	0.036	36	140	120	IRF1310N-ND	2.01	1.43	1.18
	100	0.028	46	180	150	IRF3710-ND	3.09	2.23	1.82
	100	0.025	59	236	200	IRFB59N10D-ND	2.43	1.95	1.46
	55	0.074	18	72	45	IRLZ24N-ND	1.26	.82	.63
	55	0.042	27	110	56	IRLZ34N-ND	1.40	.92	.70
	55	0.022	41	160	83	IRLZ44N-ND	1.74	1.15	.89
	100	0.20	7.2	38	27	IRFI520N-ND	1.22	.87	.72
	100	0.11	11	60	33	IRFI530N-ND	1.37	.97	.80
	100	0.052	18	110	42	IRFI540N-ND	1.69	1.20	.99
	100	0.036	22	140	45	IRFI1310N-ND	3.41	2.42	1.99
	150	0.082	21	84	94	IRF3315-ND	1.42	1.01	.83
	150	0.042	37	150	150	IRF3415-ND	3.19	2.26	1.87
	150	0.090	23	92	136	IRFB23N15D-ND	1.60	1.28	.96
	150	0.056	33	130	170	IRFB33N15D-ND	1.80	1.44	1.08
	150	0.045	41	164	200	IRFB41N15D-ND	2.45	1.97	1.48
	150	0.032	60	250	2.4	IRFB61N15D-ND	3.63	2.55	1.98
	200	1.5	2.5	10	20	IRF610-ND	.65	.46	.38
	200	0.8	5	20	40	IRF620-ND	1.14	.74	.57
	200	0.3	9.3	37	82	IRF630N-ND	1.05	.84	.74
	200	0.15	18	72	150	IRF640N-ND	1.99	1.30	1.00
	200	0.17	16	64	140	IRFB17N20D-ND	1.46	1.17	.88
	200	0.10	24	96	170	IRFB23N20D-ND	1.91	1.53	1.15
	200	0.082	31	124	200	IRFB31N20D-ND	2.41	1.93	1.45
	200	0.040	56	220	380	IRFB260N-ND	3.90	2.73	2.13
	250	2	2.7	8	36	IRF614-ND	1.13	.90	.64
	250	1.1	4.4	14	50	IRF624-ND	1.06	.69	.53
	250	0.45	8.1	32	74	IRF634-ND	1.08	.86	.62
	250	0.28	14	56	125	IRF644-ND	1.72	1.19	.95
	250	0.24	14	56	150	IRF644N-ND	1.45	.84	.70
	300	0.75	6.1	24	74	IRF737LC-ND	1.28	1.03	.77
	300	0.45	9.3	37	96	IRFB9N30A-ND	1.33	1.06	.64
	400	3.6	1.5	6	20	IRF710-ND	1.11	.70	.53
	400	1.8	3	12	40	IRF720-ND	1.33	.85	.64
	400	1	5.5	22	74	IRF730-ND	1.59	1.04	.80
	400	1	5.5	22	74	IRF730A-ND	1.15	.92	.66

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
1	400	0.55	10	40	125	IRF740-ND	2.03	1.37	1.07
	400	0.55	10	40	125	IRF740A-ND	1.86	1.26	.98
	400	0.55	10	40	125	IRF740LC-ND	2.43	1.95	1.46
	450	0.63	8.8	35	125	IRF744-ND	1.83	1.47	1.05
	450	1.2	4.9	20	74	IRF734-ND	1.60	1.28	.91
	500	3	2.5	10	40	IRF820-ND	.89	.64	.53
	500	1.5	4.5	18	75	IRF830-ND	1.50	.99	.76
	500	1.4	5	20	74	IRF830A-ND	1.53	1.22	.87
	500	0.85	8	32	125	IRF840-ND	2.05	1.38	1.08
	500	0.85	8	32	125	IRF840A-ND	1.56	1.25	.89
	500	0.85	8	28	125	IRF840LC-ND	1.79	1.43	1.03
	500	3.0	2.5	10	50	IRF820A-ND	1.26	1.01	.76
	500	0.52	11	44	170	IRFB11N50A-ND	1.73	1.38	.97
	500	0.450	14	56	250	IRFB13N50A-ND	3.69	2.59	2.02
	500	0.26	17	68	220	IRFB18N50K-ND	4.37	3.03	2.55
	600	1.2	6.2	25	130	IRFBC40LC-ND	3.53	2.83	2.12
	600	0.75	9.2	37	170	IRFB9N60A-ND	1.70	1.36	.97
	600	4.4	2.2	6.8	50	IRFBC20-ND	1.23	.88	.72
	600	2.2	3.6	14	74	IRFBC30-ND	1.15	.82	.68
	600	2.2	3.6	14	74	IRFBC30A-ND	2.98	2.02	1.59
	600	1.2	6.2	25	125	IRFBC40-ND	1.66	1.33	.95
	600	1.2	6.2	25	125	IRFBC40A-ND	1.65	1.32	.94
	650	0.93	8.5	21	167	IRFB9N65A-ND	2.18	1.75	1.27
	800	6.5	1.8	—	54	IRFBE20-ND	1.25	.89	.73
	800	3	4.1	—	125	IRFBE30-ND	2.24	1.53	1.21
	900	8	1.7	—	54	IRFBF20-ND	1.41	1.01	.83
	900	3.7	3.6	—	125	IRFBF30-ND	2.56	1.82	1.50
	1000	11	1.4	—	54	IRFBG20-ND	1.64	1.17	.96
	1000	5	3.1	—	125	IRFBG30-ND	2.04	1.45	1.19
						TO-220AB Logic Level			
1	20	0.013	61	240	89	IRL3102-ND	1.70	1.36	.97
	20	0.016	48	190	69	IRL3202-ND	1.40	1.12	.80
	20	0.02	39	160	57	IRL3302-ND	1.45	1.16	.84
	20	0.007	110	420	140	IRL3502-ND	2.52	2.02	1.44
	20	0.01	85	340	110	IRL3402-ND	1.91	1.53	1.15
	30	0.007	116	400	130	IRL2203N-ND	2.52	1.79	1.47
	30	0.014	64	220	110	IRL3103-ND	1.64	1.16	.96
	30	0.014	64	220	89	IRL3103D1-ND	3.60	2.55	2.10
	30	0.026	38	140	68	IRL3303-ND	1.82	1.30	1.07
	30	0.006	120	470	150	IRL3803-ND	3.35	2.38	1.96
	30	0.04	24	96	45	IRL2703-ND	.70	.56	.42
	30	0.0125	62	248	87	IRF3707-ND	1.40	1.12	.84
	30	0.012	62	248	87	IRF3708-ND	1.40	1.12	.84
	30	0.014	54	220	70	IRL3103D2-ND	2.00	1.60	1.20
	30	0.026	34	140	68	IRL3303D1-ND	1.50	1.20	.90
	40	0.0065	130	520	200	IRL1004-ND	3.65	2.92	2.08
	40	0.008	104	416	167	IRL1104-ND	2.30	1.84	1.38
	40	0.004	160	640	200	IRL1404-ND	4.61	3.69	2.77
	55	0.008	104	360	200	IRL2505-ND	6.50	5.20	3.71
	55	0.01	89	310	130	IRL3705N-ND	2.60	1.85	1.52
	60	0.2	10	40	43	IRLZ14-ND	1.17	.74	.55
	60	0.028	50	200	150	IRLZ44-ND	1.77	1.17	.91
	100	0.026	55	190	200	IRL2910-ND	4.26	3.41	2.44
	100	0.54	5.6	16	43	IRL510-ND	1.19	.75	.55
	100	0.18	10	35	47	IRL520N-ND	.86	.62	.51
	100	0.1	15	60	63	IRL530N-ND	1.53	.99	.75
	100	0.044	36	120	94	IRL540N-ND	2.02	1.36	1.06
	150	0.166	12	48	80	IRL3215-ND	.92	.74	.56
	200	0.8	5.2	21	50	IRL620-ND	1.45	1.16	.83
	200	0.4	9	36	74	IRL630-ND	1.88	1.50	1.07
	200	0.18	17	68	125	IRL640-ND	2.02	1.37	1.07
						TO-220 Fullpak			
2	60	0.2	8	32	27	IRFIZ14G-ND	1.08	.87	.63
	60	0.1	14	56	37	IRFIZ24G-ND	1.13	.90	.64
	60	0.05	20	80	42	IRFIZ34G-ND	1.43	1.14	.81
	60	0.082	30	120	48	IRFIZ44G-ND	2.35	1.88	1.20
	55	0.06	14	72	26	IRLIZ24N-ND	1.44	1.02	.84
	55	0.035	22	110	37	IRLIZ34N-ND	1.49	1.06	.87
	55	0.022	30	160	45	IRLIZ44N-ND	1.85	1.31	1.08
	100	0.27	7.2	29	37	IRLI520G-ND	1.18	.95	.68
	100	0.16	9.7	39	42	IRLI530G-ND	1.30	1.04	.74
	55	0.008	58	360	63	IRLI2505-ND	6.01	4.81	3.61
	100	0.18	7.7	35	27	IRLI520N-ND	1.20	.85	.70
	100	0.1	11	60	33	IRLI530N-ND	1.80	1.17	.89
	100	0.044	20	120	42	IRLI540N-ND	1.97	1.40	1.15
	30	0.007	61	400	47	IRLI2203N-ND	3.72	2.64	2.17
	55	0.01	52	310	58	IRLI3705N-ND	3.72	2.64	2.17
	30	0.006	76	470	63	IRLI3803-ND	7.08	5.02	4.13
	100	0.54	4.5	18	27	IRFI510G-ND	1.20	.96	.68
	100	0.16	9.7	39	42	IRFI530G-ND	1.38	1.10	.79
	100	0.077	17	68	48	IRFI540G-ND	1.95	1.56	1.11
	200	0.4	5.9	24	35	IRFI630G-ND	1.53	1.22	.88
	200	0.8	4.1	16	30	IRFI620G-ND	1.13	.91	.65
	200	0.18	9.8	39	40	IRFI640G-ND	2.04	1.63	1.17
	200	0.8	4.1	16	30	IRLI620G-ND	1.58	1.26	.90
	250	2	2.1	8.4	23	IRFI614G-ND	1.25	1.00	.71
	250	1.1	3.4	14	30	IRFI624G-ND	1.58	1.26	.90
	250	0.45	5.6	22	35	IRFI634G-ND	1.63	1.30	.93
	250	0.28	7.9	32	40	IRFI644G-ND	3.23	2.58	1.84

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
2	400	1.8	2.6	10	30	IRFI720G-ND	1.60	1.28	1.12
	400	1	3.7	15	35	IRFI730G-ND	1.55	1.24	.89
	400	0.55	5.7	23	40	IRFI740GLC-ND	2.54	2.04	1.53
	400	0.55	5.4	22	40	IRFI740G-ND	2.09	1.68	1.26
	450	1.2	3.4	14	35	IRFI734G-ND	1.55	1.25	.94
	450	0.63	4.9	20	40	IRFI744G-ND	2.33	1.86	1.33
	500	3	2.1	8.4	30	IRFI820G-ND	1.23	.98	.70
	500	1.5	3.1	12	35	IRFI830G-ND	1.61	1.29	.92
	500	0.85	4.6	18	40	IRFI840G-ND	2.32	1.86	1.33
	500	0.85	4.5	18	40	IRFI840GLC-ND	2.77	2.22	1.59
	500	0.52	6.6	44	60	IRFIB7N50A-ND	2.18	1.74	1.24
	600	1.2	3.5	14	40	IRFIBC40GLC-ND	3.65	2.92	2.19
	600	0.75	5.5	37	60	IRFIB6N60A-ND	2.15	1.72	1.23
	600	4.4	1.7	6.8	30	IRFIBC20G-ND	2.20	1.76	1.26
	600	2.2	2.5	10	35	IRFIBC30G-ND	2.60	2.08	1.49
	600	1.2	3.5	14	40	IRFIBC40G-ND	2.55	2.04	1.46
	650	0.93	5.1	21	60	IRFIB5N65A-ND	2.55	2.04	1.47
	800	6.5	1.4	5.6	30	IRFIBE20G-ND	1.68	1.35	.97
	800	3	2.1	8.5	35	IRFIBE30G-ND	2.30	1.84	1.32
	900	8	1.2	4.8	30	IRFIBF20G-ND	1.87	1.50	1.08
	900	3.7	1.9	7.6	35	IRFIBF30G-ND	3.28	2.63	1.88
TO-220 Fullpak Logic Level									
2	60	0.20	8.0	32	27	IRLIZ14G-ND	1.19	.96	.72
	60	0.028	30	120	48	IRLIZ44G-ND	2.25	1.80	1.28
	100	0.026	31	190	63	IRLI2910-ND	3.60	2.88	2.16
	200	0.4	6.2	25	35	IRLI630G-ND	1.62	1.30	.93
	200	0.18	9.9	40	40	IRLI640G-ND	2.16	1.73	1.24
SUPER TO-220 Logic Level									
16	30	0.005	179	720	270	IRLBA3803P-ND	3.67	2.94	2.21
	40	0.004	185	740	300	IRLBA1304P-ND	6.44	5.15	3.87
TO-220-5 Current Sense									
14	55	0.04	26	68	60	IRCZ24-ND	1.45	1.17	.84
	60	0.028	50	210	150	IRCZ44-ND	2.71	2.17	1.55
	100	0.16	14	56	88	IRC530-ND	2.13	1.71	1.22
	100	0.077	28	110	150	IRC540-ND	2.68	2.14	1.53
	200	0.40	9.0	36	74	IRC630-ND	2.30	1.84	1.38
	200	0.18	18	72	125	IRC640-ND	2.56	2.05	1.47
	250	0.45	8.1	32	74	IRC634-ND	2.12	1.70	1.27
	250	0.28	14.0	56	125	IRC644-ND	3.60	2.88	2.16
	400	1.0	5.5	22	74	IRC730-ND	2.88	2.31	1.73
	400	0.55	10.0	40	125	IRC740-ND	2.99	2.40	1.80
	500	1.5	4.5	18	74	IRC830-ND	2.23	1.79	1.34
	500	0.85	8.0	32	125	IRC840-ND	3.29	2.63	1.98
TO-247AC									
3	30	0.0028	210	1000	230	IRFP3703-ND	5.58	3.86	3.25
	55	0.024	49	180	100	IRFP044N-ND	2.60	1.80	1.43
	55	0.016	64	210	140	IRFP048N-ND	4.34	3.08	2.54
	55	0.012	72	290	130	IRFP054N-ND	3.13	2.30	1.89
	55	0.008	98	390	150	IRFP064N-ND	4.84	3.43	2.83
	60	0.014	70	360	230	IRFP054-ND	3.74	2.99	2.14
	60	0.009	70	520	300	IRFP064-ND	6.25	5.00	3.57
	75	4.5	209	840	470	IRFP2907-ND	6.60	4.76	3.96
	100	0.052	27	110	94	IRFP140N-ND	2.30	1.63	1.35
	100	0.055	41	160	230	IRFP150-ND	3.20	2.31	1.89
	100	0.036	39	140	140	IRFP150N-ND	3.18	2.25	1.86
	100	0.025	57	180	200	IRFP3710-ND	6.25	5.00	3.57
	150	0.042	43	150	200	IRFP3415-ND	3.45	2.41	1.86
	200	0.18	20	—	150	IRFP240-ND	2.57	1.82	1.50
	200	0.04	50	200	300	IRFP260N-ND	5.23	3.73	3.04
	200	0.075	30	120	214	IRFP250N-ND	3.33	2.66	2.33
	250	0.28	15	—	150	IRFP244-ND	3.16	2.25	1.85
	250	0.14	23	92	190	IRFP254-ND	3.55	2.85	2.03
	250	.075	38	—	280	IRFP264-ND	5.16	3.89	3.25
	400	0.55	11	—	150	IRFP340-ND	3.78	2.68	2.21
	400	0.3	16	64	190	IRFP350-ND	3.83	2.78	2.28
	400	0.30	16	64	190	IRFP350LC-ND	5.83	4.67	3.50
	400	0.35	14	56	190	IRFP354-ND	6.20	4.96	3.54
	400	0.2	23	92	280	IRFP360-ND	5.53	3.92	3.23
	400	0.2	23	92	280	IRFP360LC-ND	12.25	9.80	7.00
	450	0.63	9.5	38	150	IRFP344-ND	4.08	3.26	2.33
	500	0.28	16	64	220	IRFP17N50L-ND	4.81	3.33	2.80
	500	0.23	22	88	277	IRFP22N50A-ND	4.33	3.46	2.45
	500	0.19	23	92	370	IRFP23N50L-ND	6.00	4.32	3.60
	500	0.15	31	124	460	IRFP31N50L-ND	9.00	6.48	5.40
	500	0.135	32	130	460	IRFP32N50K-ND	8.40	6.05	5.04
	500	.85	8.8	—	150	IRFP440-ND	2.76	1.96	1.61
	500	0.6	11	44	180	IRFP448-ND	3.31	2.65	1.90
	500	0.4	14	56	190	IRFP450A-ND	3.47	2.78	1.99
	500	0.4	14	—	190	IRFP450IR-ND	3.69	2.65	2.16
	500	0.4	14	56	190	IRFP450LC-ND	7.09	5.68	4.97
	500	0.27	20	80	280	IRFP460IR-ND	4.63	3.47	2.89
	500	0.27	20	80	280	IRFP460A-ND	5.54	4.44	3.17
	500	0.27	20	80	280	IRFP460P-ND	1.93	1.93	1.16
	500	0.27	20	80	280	IRFP460LC-ND	5.08	4.06	3.56
	600	1.2	6.8	27	150	IRFPC40-ND	3.30	2.64	1.89
	600	0.82	8.9	36	170	IRFPC48-ND	12.73	10.18	7.27
	600	0.6	11	44	180	IRFPC50-ND	9.15	6.48	5.34
	600	0.58	11	44	180	IRFPC50A-ND	6.25	5.00	3.58
	600	0.60	11	44	190	IRFPC50LC-ND	9.65	7.73	5.80
	600	0.4	16	64	280	IRFPC60-ND	7.41	5.70	4.81
	600	0.4	16	64	280	IRFPC60LC-ND	5.38	4.30	3.08

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
3	800	3	4.1	16	125	IRFPE30-ND	7.03	5.62	4.01
	800	2	5.4	22	150	IRFPE40-ND	3.41	2.73	1.96
	800	1.2	7.8	—	190	IRFPE50-ND	6.72	4.76	3.92
	800	3	4.1	16	125	IRFPF30-ND	7.20	5.76	4.11
	900	2.5	4.7	19	150	IRFPF40-ND	3.34	2.67	1.91
	900	1.6	6.7	27	190	IRFPF50-ND	7.50	6.00	4.29
	1000	5.0	3.1	—	125	IRFPG30-ND	2.71	1.93	1.59
	1000	3.5	4.3	17	150	IRFPG40-ND	3.88	3.11	2.22
	1000	2	6.1	—	190	IRFPG50-ND	7.74	5.48	4.52
TO-262									
4	20	9.0	77	308	87	IRF3704L-ND	1.46	1.17	.88
	20	8.5	77	280	88	IRF3706L-ND	1.46	1.17	.88
	20	6.0	110	440	120	IRF3711L-ND	1.78	1.01	.82
	20	20	36	140	47	IRL3714L-ND	1.11	.65	.50
	20	14	54	210	71	IRL3715L-ND	1.27	.75	.58
	30	12.5	62	248	87	IRF3707L-ND	1.46	1.17	.88
	30	0.007	116	400	170	IRL2203NL-ND	3.60	2.88	2.16
	30	0.026	38	140	68	IRL3303L-ND	2.21	1.77	1.33
	30	12	62	248	87	IRF3708L-ND	1.44	.78	.70
	30	9.0	90	360	120	IRF3709L-ND	1.78	1.01	.82
	30	0.006	140	470	200	IRL3803L-ND	6.98	5.58	4.19
	40	0.009	100	40	170	IRF1104L-ND	2.30	1.84	1.38
	40	0.004	162	650	200	IRF1404L-ND	3.80	3.05	2.29
	40	0.0065	130	520	200	IRL1004L-ND	3.42	2.74	2.06
	40	0.008	104	416	167	IRL1104L-ND	2.30	1.84	1.38
	40	0.004	160	640	3.8	IRL1404L-ND	2.93	2.04	1.58
	55	0.022	49	160	110	IRFZ44NL-ND	1.82	1.46	1.05
	55	0.011	84	290	170	IRF1010NL-ND	3.38	2.70	2.03
	55	8.0	110	390	200	IRF3205L-ND	6.30	5.04	3.78
	55	0.07	17	68	45	IRFZ24NL-ND	1.10	.89	.67
	55	0.040	29	100	68	IRFZ34NL-ND	1.46	1.17	.88
	55	0.0165	53	180	107	IRFZ46NL-ND	2.09	1.68	1.26
	55	0.014	64	210	130	IRFZ48NL-ND	3.83	3.06	2.30
	55	0.008	104	360	200	IRL2505L-ND	6.30	5.04	3.78
	55	0.06	18	72	45	IRLZ24NL-ND	1.46	1.17	.88
	55	0.035	30	110	68	IRLZ34NL-ND	1.51	1.21	.91
	55	0.022	47	160	110	IRLZ44NL-ND	1.85	1.48	1.11
	55	5.3	131	680	200	IRF1405L-ND	3.80	3.05	2.29
	60	0.012	84	330	170	IRF1010EL-ND	3.49	2.79	2.10
	60	0.023	48	192	110	IRFZ44EL-ND	1.53	1.23	.92
	60	0.20	10	40	43	IRFZ14L-ND	1.04	.83	.63
	60	0.050	30	120	88	IRFZ34L-ND	1.75	1.40	1.01
	75	0.0078	100	520	—	IRF1407L-ND	2.57	1.79	1.39
	75	0.013	82	280	200	IRF2807L-ND	3.47	2.78	2.08
	100	0.1	17	60	79	IRL530NL-ND	1.88	1.50	1.07
	100	0.036	42	140	160	IRF1310NL-ND	3.49	2.79	2.10
	100	0.54	5.6	20	43	IRF510L-ND	1.01	.81	.62
	100	0.025	57	180	200	IRF3710L-ND	5.63	4.50	3.38
	100	0.11	17	600	79	IRF530NL-ND	1.35	1.08	.81
	100	0.052	33	110	140	IRF540NL-ND	2.03	1.62	1.22
	100	0.026	55	190	200	IRL2910L-ND	5.63	4.50	3.38
	100	0.025	59	236	200	IRFSL59N10D-ND	2.68	2.15	1.61
	100	0.18	10	35	48	IRL520NL-ND	1.24	.99	.75
	100	0.044	36	120	140	IRL540NL-ND	2.09	1.68	1.26
	100	0.20	9.7	38	3.8	IRF520NL-ND	1.13	.90	.68
	100	0.54	5.6	20	43	IRL510L-ND	1.04	.83	.63
	200	0.30	9.3	37	82	IRF630NL-ND	2.21	1.54	1.17
	150	0.082	21	84	94	IRF3315L-ND	2.27	1.82	1.37
	150	0.042	43	150	200	IRF3415L-ND	3.87	3.10	2.33
	150	0.045	41	164	200	IRF3515L-ND	2.59	2.07	1.56
	150	0.090	23	92	136	IRFSL23N15D-ND	1.78	1.43	1.07
	150	0.056	33	130	170	IRFSL33N15D-ND	1.80	1.44	1.08
	150	0.045	41	164	3.1	IRFSL41N15D-ND	2.57	2.06	1.54
	200	1.5	3.3	10	36	IRF610L-ND	1.24	.99	.74
	200	0.80	5.2	18	50	IRF620L-ND	1.46	1.17	.88
	200	0.15	18	72	150	IRF640NL-ND	1.48	1.19	.89
	200	0.10	24	96	170	IRFSL23N20D-ND	1.98	1.59	1.19
	200	0.17	16	64	140	IRFSL17N20D-ND	1.69	1.35	1.02
	250	0.24	14	45	150	IRF644L-ND	3.02	2.42	1.81
	250	2.0	2.7	8.0	36	IRF614L-ND	1.24	.99	.74
	250	1.1	4.4	14	50	IRF624L-ND	1.53	1.23	.92
	250	0.435	8.0	32	88	IRF634L-ND	1.69	1.35	1.02
	300	0.75	6.1	24	74	IRF737LCL-ND	1.76	1.41	1.06
	400	0.55	10	40	125	IRF740L-ND	2.36	1.89	1.43
	400	3.6	2.0	6.0	36	IRF710L-ND	1.19	.96	.72
	400	1.8	3.3	13	50	IRF720L-ND	1.31	1.05	.79
	400	1.0	5.5	22	74	IRF730L-ND	1.51	1.21	.90
	400	1.0	5.5	22	74	IRF730AL-ND	1.51	1.21	.91
	400	0.55	10	40	125	IRF740AL-ND	2.21	1.77	1.33
	400	0.55	10	32	125	IRF740LCL-ND	2.32	1.86	1.39
	450	0.63	8.8	35	125	IRF744L-ND	2.09	1.68	1.26
	500	3.0	2.5	8.0	50	IRF820L-ND	1.46	1.17	.88
	500	1.40	5.0	20	3.1	IRF830L-ND	1.60	1.28	.96
	500	0.85	8	28	125	IRF840L-ND	2.75	2.20	1.57
	500	3.0	2.5	10	50	IRF820AL-ND	1.22	.98	.73
	500	1.40	5.0	20	74	IRF830AL-ND	1.60	1.28	.96
	500	0.85	8.0	32	125	IRF840AL-ND	1.45	1.16	.87
	500	0.85	8.0	28	125	IRF840LCL-ND	2.36	1.89	1.42
	500	0.55	11	44	190	IRFSL11N50A-ND	1.80	1.44	1.08
	600	4.4	2.2	8.0	50	IRFBC20L-ND	2.09	1.68	1.26
	600	2.2	3.6	14	74	IRFBC30L-ND	2.45	1.97	1.48
	600	1.2	6.2	25	130	IRFBC40L-ND	3.58	2.87	2.15

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
4	600	2.2	3.6	14	74	IRFBC30AL-ND	1.03	.82	.62
	600	1.2	6.2	25	125	IRFBC40AL-ND	1.50	1.20	.90
	600	1.2	6.2	25	3.1	IRFBC40LCL-ND	3.83	3.06	2.30
	800	6.5	1.8	7.2	54	IRFBE20L-ND	1.67	1.34	1.00
	800	3.0	4.1	16	125	IRFBE30L-ND	2.59	2.07	1.56
	900	8.0	1.7	6.8	54	IRFBF20L-ND	1.78	1.43	1.07
	900	3.7	3.6	14	125	IRFBF30L-ND	3.22	2.58	1.94
TO-262 Logic Level									
4	30	0.014	64	220	110	IRL3103L-ND	3.25	2.60	1.86
	60	0.2	10	40	43	IRLZ14L-ND	1.07	.86	.62
	600	0.75	9.2	37	170	IRFSL9N60A-ND	2.28	1.82	1.60
I-Pak									
5	20	9.5	75	300	90	IRFU3704-ND	1.44	.78	.70
	20	9.0	75	280	88	IRFU3706-ND	1.44	.78	.70
	20	6.5	110	440	2.5	IRFU3711-ND	1.78	1.01	.82
	20	20	36	140	47	IRLU3714-ND	.92	.55	.41
	20	14	54	210	71	IRLU3715-ND	1.05	.63	.47
	30	0.031	33	120	57	IRFU3303-ND	.87	.70	.50
	30	13	61	244	87	IRFU3707-ND	1.44	.78	.70
	30	12.5	61	244	87	IRFU3708-ND	1.44	.78	.70
	30	9.0	90	360	120	IRFU3709-ND	1.78	1.01	.82
	50	0.2	8.2	33	25	IRFU010-ND	.79	.63	.48
	50	0.1	15	—	—	IRFU020-ND	.88	.71	.51
	55	0.075	17	68	45	IRFU024N-ND	.86	.69	.50
	55	0.027	44	160	107	IRFU1205-ND	2.48	1.98	1.49
	55	0.016	56	220	110	IRFU2405-ND	1.55	.90	1.55
	55	0.045	27	100	68	IRFU4105-ND	2.36	1.89	1.42
	55	0.14	10	40	28	IRLU014N-ND	1.33	.70	.63
	60	0.2	7.7	—	—	IRFU014-ND	.71	.57	.41
	60	0.1	14	—	—	IRFU024-ND	1.11	.89	.64
	75	0.026	42	170	110	IRFU2407-ND	1.55	.90	.75
	100	0.27	7.7	31	42	IRFU120IR-ND	1.00	.81	.58
	100	0.2	9.4	38	48	IRFU120N-ND	.82	.66	.47
	100	0.54	4.3	17	25	IRFU110-ND	.90	.72	.54
	100	0.115	16	60	79	IRFU3910-ND	1.76	1.41	1.06
	150	0.18	14	56	86	IRFU13N15D-ND	1.49	1.19	.90
	150	0.125	18	72	110	IRFU18N15D-ND	1.46	1.17	.88
	200	1.5	2.6	10	25	IRFU210-ND	.74	.60	.43
	200	0.6	5	20	43	IRFU220N-ND	.60	.48	.36
	200	0.235	13	52	110	IRFU13N20D-ND	1.44	1.16	.87
	200	0.38	9.4	38	86	IRFU9N20D-ND	1.44	1.16	.87
	250	1.1	3.8	15	42	IRFU224-ND	1.01	.81	.61
	250	0.26	14	56	144	IRFU12N25D-ND	2.24	1.57	1.19
	400	3.6	1.7	6	25	IRFU310-ND	1.05	.84	.60
	400	1.8	3.1	12	42	IRFU320-ND	1.00	.80	.58
	500	3	2.4	8	42	IRFU420-ND	1.22	.79	.61
	600	7	1.4	5.6	36	IRFU1N60A-ND	.73	.58	.44
	600	4.4	2.0	8.0	42	IRFUC20-ND	1.80	1.44	1.08
I-Pak Logic Level									
5	30	0.019	55	220	107	IRLU3103-ND	3.00	2.40	1.71
	30	0.031	35	140	68	IRLU3303-ND	1.68	1.34	.96
	30	0.045	23	96	45	IRLU2703-ND	.72	.58	.42
	55	0.040	24	110	68	IRLU2705-ND	1.24	.99	.75
	55	0.027	42	160	110	IRLU2905-ND	2.75	2.20	1.65
	55	0.065	17	72	45	IRLU024N-ND	1.11	.71	.54
	60	0.1	14	56	42	IRLR024-ND	.90	.72	.52
	55	0.2	7.7	31	25	IRLR014-ND	.68	.55	.39
	60	0.2	7.7	—	—	IRLU014-ND	1.00	.64	.48
	60	0.1	14	—	—	IRLU024-ND	1.13	.90	.68
	100	0.54	4.8	17	25	IRLU110-ND	.97	.78	.59
	100	0.185	10	35	48	IRLU120N-ND	1.55	1.00	.75
	100	0.105	17	60	79	IRLU3410-ND	1.42	1.14	.82
Super-220 (TO-274AC)									
16	40	3.7	206	650	300	IRFBA1404P-ND	5.55	4.44	3.11
Super TO-247									
17	500	0.087	46	180	540	IRFPS40N50L-ND	12.53	9.66	8.31
Super-247									
15	100	0.009	170	670	580	IRFPS3810-ND *NEW!*	6.67	4.88	4.04
	500	0.13	36	144	446	IRFPS37N50A-ND	9.65	7.24	6.04
	500	0.078	47	190	540	IRFPS43N50K-ND	11.97	9.23	7.94
4-Pin Dip									
6	50	0.2	1.7	—	—	IRFD010-ND	.63	.50	.36
	50	0.1	2.4	—	—	IRFD020-ND	1.14	.75	.57
	60	0.2	1.7	14	1.3	IRFD014-ND	.95	.60	.45
	60	0.1	2.5	20	1.3	IRFD024-ND	1.14	.75	.57
	100	0.6	1.0	8.0	1.0	IRFD110-ND	.97	.61	.45
	100	0.3	1.3	5.2	1.0	IRFD120-ND	1.06	.68	.51
	200	1.5	0.6	2.5	1.0	IRFD210-ND	.92	.59	.44
	200	0.8	0.8	6.4	1.0	IRFD220-ND	1.08	.69	.52
	250	2	0.45	3.6	1	IRFD214-ND	1.00	.80	.57
	250	1.1	0.63	5	1	IRFD224-ND	1.08	.86	.61
	400	3.6	0.35	2.8	1	IRFD310-ND	1.18	.94	.67
	400	1.8	0.49	3.9	1	IRFD320-ND	.83	.66	.48
	500	3	0.46	3	1	IRFD420-ND	1.50	1.20	.86
	600	4.4	0.32	2.6	1	IRFDC20-ND	1.59	1.28	.91
4-Pin Dip Logic Level									
6	60	.20	1.7	14	1.3	IRLD014-ND	1.04	.67	.51
	60	.10	2.5	20	1.3	IRLD024-ND	1.16	.76	.59
	100	.54	1	8	1.3	IRLD110-ND	.54	.46	.38
	100	.27	1.3	10	1.3	IRLD120-ND	.71	.61	.50
SOT-227									
18	100	0.0065	180	720	480	FB180SA10-ND	35.85	28.68	20.44
	500	0.13	38	150	500	FA38SA50LC-ND	34.85	27.89	20.92
	500	0.08	57	228	625	FA57SA50LC-ND	51.50	41.20	30.90

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
SMD-220/D²Pak									
7	20	.0085	77	280	88	IRF3706S-ND	1.63	1.30	.98
	20	.006	110	440	120	IRF3711S-ND	1.78	1.01	.82
	30	.012	62	248	87	IRF3708S-ND	1.63	1.30	.87
	30	.009	90	360	120	IRF3709S-ND	1.78	1.01	.82
	30	.125	62	248	87	IRF3707S-ND	1.46	1.17	.88
	40	0.009	100	400	170	IRF1104S-ND	2.30	1.84	1.38
	55	0.005	131	680	200	IRF1405S-ND	3.80	3.05	2.29
	55	0.011	84	290	170	IRF1010NS-ND	2.80	2.24	1.60
	55	0.008	110	390	200	IRF3205S-ND	3.84	2.72	2.24
	55	0.008	110	390	200	IRF3205STRL-ND	1728.00/800		
	55	0.07	17	68	45	IRFZ24NS-ND	1.15	.92	.66
	55	0.04	29	100	68	IRFZ34NS-ND	1.00	.80	.58
	55	0.04	29	100	68	IRFZ34NSTRL-ND	432.00/800		
	55	0.04	29	100	68	IRFZ34NSTRR-ND	432.00/800		
	55	0.022	49	160	110	IRFZ44NS-ND	1.20	.96	.69
	55	0.022	49	160	110	IRFZ44NSTRL-ND	539.20/800		
	55	0.02	53	180	120	IRFZ46NS-ND	1.80	1.44	1.03
	55	0.016	64	210	140	IRFZ48NS-ND	1.45	1.16	.83
	55	0.016	64	210	140	IRFZ48NSTRL-ND	624.00/800		
	55	0.016	64	210	140	IRFZ48NSTRR-ND	624.00/800		
	60	0.012	83	330	170	IRF1010ES-ND	3.88	3.10	2.21
	60	0.050	30	120	88	IRFZ34S-ND	1.55	1.24	.93
	60	0.2	10	40	43	IRFZ14S-ND	1.08	.86	.61
	60	0.1	17	68	60	IRFZ24S-ND	1.02	.82	.59
	60	0.023	48	192	110	IRFZ44ES-ND	1.15	.82	.68
	60	0.023	48	192	110	IRFZ44ESTRR-ND	517.60/800		
	60	0.028	50	200	150	IRFZ44S-ND	1.53	1.22	.87
	60	0.028	50	200	150	IRFZ44STRR-ND	659.20/800		
	60	16.5	55	220	115	IRFZ44VS-ND	1.44	.78	.70
	60	12	72	290	150	IRFZ48VS-ND	1.70	.97	.80
	75	0.013	71	280	150	IRF2807S-ND	3.49	2.41	1.91
	75	0.0078	100	520	3.8	IRF1407S-ND	2.60	1.81	1.40
	100	0.036	42	140	160	IRF1310NS-ND	1.64	1.31	.94
	100	0.036	42	140	160	IRF1310NSTRL-ND	708.00/800		
	100	0.025	57	180	200	IRF3710S-ND	2.30	1.63	1.35
	100	0.025	57	180	200	IRF3710STRR-ND	1034.40/800		
	100	0.54	5.6	20	43	IRF510S-ND	1.08	.86	.61
	100	0.2	9.7	38	48	IRF520NS-ND	.81	.65	.47
	100	0.11	17	80	79	IRF530NS-ND	1.01	.81	.59
	100	0.11	17	80	79	IRF530NSTRL-ND	437.60/800		
	100	0.11	17	80	79	IRF530NSTRR-ND	437.60/800		
	100	0.16	14	56	88	IRF530S-ND	1.06	.85	.62
	100	0.16	14	56	88	IRF530STRR-ND	459.20/800		
	100	0.052	33	110	140	IRF540NS-ND	1.40	1.12	.81
	100	0.052	33	110	140	IRF540NSTRL-ND	624.00/800		
	100	0.052	33	110	140	IRF540NSTRR-ND	604.80/800		
	100	0.077	28	110	150	IRF540S-ND	1.46	1.17	.83
	100	0.077	28	110	150	IRF540STRL-ND	629.60/800		
	100	0.077	28	110	150	IRF540STRR-ND	629.60/800		
	100	0.6	6.8	-27	60	IRF9520S-ND	1.75	1.40	1.00
	100	0.6	6.8	-27	60	IRF9520STRL-ND	392.00/800		
	100	0.025	59	236	200	IRFS59N10D-ND	2.52	2.02	1.52
	150	0.082	21	84	94	IRF3315S-ND	1.49	1.06	.87
	150	0.042	43	150	200	IRF3415S-ND	2.71	1.92	1.59
	150	0.042	43	150	200	IRF3415STRL-ND	1219.20/800		
	150	0.045	41	164	200	IRF3515S-ND	2.78	2.23	1.59
	150	0.090	23	92	136	IRFS23N15D-ND	1.78	1.43	1.07
	150	0.056	33	130	170	IRFS33N15D-ND	1.80	1.44	1.08
	150	0.045	41	164	200	IRFS41N15D-ND	2.57	2.06	1.54
	200	1.5	3.3	10	36	IRF610S-ND	1.38	1.10	.79
	200	0.8	5.2	18	50	IRF620S-ND	1.63	1.30	.93
	200	0.3	9.3	37	82	IRF630NS-ND	1.06	.85	.75
	200	0.3	9.3	37	82	IRF630NSTRL-ND	459.20/800		
	200	0.15	18	72	150	IRF640NS-ND	1.46	1.17	1.03
	200	0.15	18	72	150	IRF640NSTRL-ND	629.60/800		
	200	0.15	18	72	150	IRF640NSTRR-ND	668.00/800		
	200	0.10	24	96	170	IRFS23N20D-ND	1.80	1.44	1.08
	200	0.082	31	124	200	IRFS31N20D-ND	2.54	2.04	1.53
	200	0.17	16	64	140	IRFS17N20D-ND	1.69	1.35	1.02
	250	1.1	4.4	—	50	IRF624S-ND	1.63	1.16	.96
	250	.45	8.1	—	74	IRF634S-ND	1.34	.95	.79
	250	2	2.7	8	36	IRF614S-ND	1.38	1.10	.79
	250	240	14	56	150	IRF644NS-ND	1.45	.84	.70
	250	0.28	14	56	125	IRF644S-ND	1.46	1.04	.86
	250	0.28	14	56	125	IRF644STRL-ND	656.80/800		
	300	0.75	6.1	24	74	IRF737LCS-ND	1.76	1.41	1.06
	400	3.6	2	6	36	IRF710S-ND	.76	.61	.44
	400	1.8	3.3	—	50	IRF720S-ND	.91	.65	.53
	400	1	5.5	—	74	IRF730S-ND	1.61	1.14	.94
	400	1	5.5	22	74	IRF730AS-ND	1.68	1.34	.95
	400	0.55	10	40	125	IRF740AS-ND	2.45	1.96	1.40
	400	0.55	10	—	125	IRF740S-ND	1.51	1.08	.89
	400	0.55	10	40	125	IRF740STRL-ND	680.80/800		
	400	0.55	10	40	125	IRF740LCS-ND	2.32	1.86	1.40
	500	3	2.5	—	50	IRF820S-ND	1.08	.77	.63
	500	1.5	4.5	—	74	IRF830S-ND	1.34	.95	.79
	500	1.4	5	20	74	IRF830AS-ND	1.23	.98	.70
	500	.85	8	—	125	IRF840S-ND	2.02	1.43	1.18
	500	0.85	8	32	125	IRF840AS-ND	1.66	1.33	.95
	500	0.52	11	44	170	IRFS11N50A-ND	1.85	1.48	1.05

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
7	500	3.0	2.5	10	50	IRF820AS-ND	1.22	.98	.73
	500	0.85	8.0	28	125	IRF840LCS-ND	2.36	1.89	1.42
	600	2.2	3.6	14	74	IRFBC30AS-ND	2.73	2.18	1.55
	600	2.2	3.6	14	74	IRFBC30S-ND	2.73	2.18	1.56
	600	1.2	6.2	25	125	IRFBC40AS-ND	1.67	1.34	.96
	600	1.2	6.2	25	130	IRFBC40S-ND	1.98	1.59	1.13
	600	0.75	9.2	37	170	IRFS9N60A-ND	2.05	1.64	1.23
	600	4.4	2.2	8.0	50	IRFBC20S-ND	2.09	1.68	1.26
	600	1.2	6.2	25	130	IRFBC40LCS-ND	3.76	3.01	2.26
	800	6.5	1.8	—	54	IRFBE20S-ND	1.67	1.34	1.00
	900	8	1.7	6.8	54	IRFBF20S-ND	1.98	1.58	1.39
	900	3.7	3.6	—	125	IRFBF30S-ND	3.22	2.58	1.94
SMD-220/D²Pak Logic Level									
7	20	0.02	36	140	47	IRL3714S-ND	1.11	.65	.50
	20	0.014	54	210	71	IRL3715S-ND	1.27	.75	.57
	30	0.014	54	220	70	IRL3103D1S-ND	4.43	3.10	2.49
	30	0.026	38	140	68	IRL3303S-ND	1.59	1.13	.93
	30	0.026	34	140	68	IRL3303D1S-ND	1.75	1.40	1.05
	30	0.014	64	220	89	IRL3103D2S-ND	2.25	1.80	1.35
	40	0.004	160	640	3.8	IRL1404S-ND	3.00	2.10	1.64
	20	0.01	85	340	110	IRL3402S-ND	2.05	1.64	1.23
	20	0.009	77	308	87	IRF3704S-ND	1.63	1.30	1.14
	20	0.013	61	240	89	IRL3102S-ND	1.22	.98	.70
	20	0.016	48	190	69	IRL3202S-ND	1.55	1.24	.89
	20	0.02	39	160	57	IRL3302S-ND	1.30	1.04	.74
	20	0.007	110	420	140	IRL3502S-ND	1.90	1.52	1.33
	20	0.007	110	420	140	IRL3502STRL-ND	820.80/800		
	20	0.004	180	720	210	IRL3716S-ND *NEW!*	2.28	1.56	1.18
	30	0.04	24	96	45	IRL2703S-ND	1.15	.92	.69
	30	0.007	116	400	170	IRL2203NS-ND	2.25	1.80	1.29
	30	0.007	116	400	170	IRL2203NSTRL-ND	972.00/800		
	30	0.014	64	220	110	IRL3103S-ND	1.42	1.01	.83
	30	0.014	64	220	110	IRL3103STRL-ND	643.20/800		
	30	0.006	140	470	200	IRL3803S-ND	2.99	2.12	1.75
	30	0.006	140	470	200	IRL3803STRL-ND	1289.60/800		
	40	0.0065	130	520	200	IRL1004S-ND	3.78	3.03	2.15
	40	0.008	104	416	167	IRL1104S-ND	2.30	1.84	1.38
	55	0.008	104	360	200	IRL2505S-ND	6.75	5.41	3.86
	55	0.01	89	310	170	IRL3705NS-ND	4.37	3.07	2.48
	55	0.01	89	310	170	IRL3705NSTRL-ND	972.00/800		
	55	0.06	18	72	45	IRLZ24NS-ND	1.10	.88	.63
	55	0.035	30	110	68	IRLZ34NS-ND	1.05	.84	.60
	55	0.035	30	110	68	IRLZ34NSTRL-ND	451.20/800		
	55	0.022	47	160	110	IRLZ44NS-ND	1.23	.98	.70
	55	0.022	47	160	110	IRLZ44NSTRL-ND	550.40/800		
	55	0.022	47	160	110	IRLZ44NSTRR-ND	529.60/800		
	60	0.2	10	40	43	IRLZ14S-ND	1.15	.92	.66
	60	0.028	50	200	150	IRLZ44S-ND	1.38	1.10	.79
	60	0.028	50	200	150	IRLZ44STRR-ND	594.00/800		
	100	0.026	55	190	200	IRL2910S-ND	6.18	4.94	3.53
	100	0.54	5.6	18	43	IRL510S-ND	.94	.76	.66
	100	0.18	10	35	48	IRL520NS-ND	.81	.65	.46
	100	0.18	10	35	48	IRL520NSTRL-ND	348.80/800		
	100	0.1	17	60	79	IRL530NS-ND	1.01	.81	.58
	100	0.1	17	60	79	IRL530NSTRL-ND	437.60/800		
	100	0.1	17	80	79	IRL530NSTRR-ND	460.80/800		
	100	0.16	15	60	88	IRL530STRR-ND	367.20/800		
	100	0.044	36	120	140	IRL540NS-ND	2.25	1.80	1.29
	100	0.044	36	120	140	IRL540NSTRL-ND	620.80/800		
	100	0.077	28	110	150	IRL540S-ND	1.30	1.04	.75
	200	0.8	5.2	21	50	IRL620S-ND	1.70	1.36	.97
	200	0.4	9	36	74	IRL630S-ND	1.96	1.57	1.12
	200	0.4	9	36	74	IRL630STRL-ND	846.40/800		
	200	0.18	17	68	125	IRL640S-ND	1.67	1.34	.96
DPak									
8	20	.009	75	300	90	IRFR3704-ND	1.44	.78	.70
	20	.009	75	280	88	IRFR3706-ND	1.44	.78	.70
	20	.006	110	440	2.5	IRFR3711-ND	1.78	1.01	.82
	20	.02	36	31	140	IRLR3714-ND	.92	.55	.41
	20	.014	54	210	71	IRLR3715-ND	1.13	.68	.50
	30	.031	33	120	57	IRFR3303-ND	.88	.70	.51
	30	.031	33	120	57	IRFR3303TR-ND	946.00/2,000		
	30	.013	61	244	87	IRFR3707-ND	1.44	.78	.70
	30	.012	61	244	87	IRFR3708-ND	1.44	.78	.70
	30	.079	91	363	115	IRLR8103V-ND	1.78	1.01	.82
	50	0.20	8.2	33	25	IRFR010-ND	.79	.63	.48
	50	0.1	15	—	—	IRFR020-ND	.89	.71	.52
	50	0.1	15	—	—	IRFR020TR-ND	958.00/2,000		
	50	0.1	15	—	—	IRFR020TRL-ND	1437.00/3,000		
	55	0.075	17	68	38	IRFR024N-ND	.68	.49	.40
	55	0.075	17	68	38	IRFR024NTR-ND	776.00/2,000		
	55	0.075	17	68	38	IRFR024NTRL-ND	1146.00/3,000		
	55	0.027	44	160	107	IRFR1205-ND	1.90	1.35	1.11
	55	0.027	44	160	107	IRFR1205TR-ND	2064.00/2,000		
	55	0.016	56	220	110	IRFR2405-ND	1.59	.92	.77
	55	0.045	27	100	68	IRFR4105-ND	1.29	1.03	.74
	60	0.075	17	68	45	IRFR024-ND	.89	.71	.52
	60	0.075	17	68	45	IRFR024TR-ND	972.00/2,000		
	60	0.2	7.7	31	25	IRFR014TR-ND	730.00/2,000		
	75	0.026	42	170	110	IRFR2407-ND	1.59	.92	.77
	100	0.54	4.3	17	25	IRFR110TR-ND	702.00/2,000		
	100	0.27	7.7	31	42	IRFR120IR-ND	1.11	.71	.54
	100	0.27	7.7	31	42	IRFR120TR-ND	854.00/2,000		
	100	0.27	7.7	31	42	IRFR120TRL-ND	1257.00/3,000		
	100	0.21	9.4	38	48	IRFR120N-ND	1.15	.74	.56
	100	0.21	9.4	38	48	IRFR120NTR-ND	882.00/2,000		
	100	0.21	9.4	38	48	IRFR120NTRL-ND	1296.00/3,000		
	100	0.039	31	125	110	IRFR3410-ND *NEW!*	1.37	.98	.71
	100	0.115	16	60	79	IRFR3910TR-ND	1038.00/2,000		
8	100	0.115	16	60	79	IRFR3910TRL-ND	1581.00/3,000		
	100	0.115	16	60	79	IRFR3910-ND	.94	.67	.55
	150	0.125	18	72	110	IRFR18N15D-ND	1.46	1.17	.88
	150	0.18	14	56	86	IRFR13N15D-ND	1.71	.97	.79
	200	0.235	13	52	110	IRFR13N20D-ND	1.60	1.28	1.02
	200	0.38	9.4	38	86	IRFR9N20D-ND	1.44	1.16	.87
	200	1.5	2.6	10	25	IRFR210-ND	.63	.51	.37
	200	0.6	5	20	43	IRFR220N-ND	.60	.48	.36
	250	2	2.2	8.8	25	IRFR214-ND	1.00	.80	.57
	250	1.1	3.8	15	42	IRFR224-ND	.74	.59	.42
	250	1.1	3.8	15	42	IRFR224TR-ND	796.00/2,000		
	250	1.1	3.8	15	42	IRFR224TRL-ND	1194.00/3,000		
	250	0.26	14	56	144	IRFR12N25D-ND	2.24	1.57	1.19
	400	3.6	1.7	6	25	IRFR310-ND	.98	.78	.56
	400	3.6	1.7	6	25	IRFR310TR-ND	1054.00/2,000		
	400	1.8	3.1	12	42	IRFR320-ND	.88	.70	.50
	400	1.8	3.1	12	42	IRFR320TR-ND	946.00/2,000		
	500	3	2.4	8	42	IRFR420-ND	.85	.68	.49
	500	3	2.4	8	42	IRFR420TR-ND	926.00/2,000		
	600	7	1.4	5.6	36	IRFR1N60A-ND	.73	.58	.41
	600	4.4	2	8	42	IRFRC20-ND	.89	.71	.51
	600	4.4	2	8	42	IRFRC20TR-ND	958.00/2,000		
DPak Logic Level									
8	30	0.045	23	96	45	IRLR2703-ND	.79	.64	.46
	30	0.012	44	196	62	IRLR8503-ND	2.88	2.30	1.73
	30	0.019	55	220	107	IRLR3103TR-ND	1404.00/2,000		
	30	0.031	35	140	68	IRLR3303-ND	.88	.70	.51
	30	0.031	35	140	68	IRLR3303TR-ND	946.00/2,000		
	55	0.065	17	72	45	IRLR024N-ND	1.25	.80	.61
	55	0.065	17	72	45	IRLR024NTR-ND	962.00/2,000		
	55	0.027	42	160	110	IRLR2905-ND	1.25	.89	.73
	55	0.027	42	160	110	IRLR2905TRL-ND	4224.00/3,000		
	55	0.027	36	160	110	IRLR2905TR-ND	1404.00/2,000		
	55	0.040	28	110	68	IRLR2705-ND	1.73	1.12	.85
	60	0.2	7.7	31	25	IRLR014N-ND	.63	.51	.38
	60	0.2	7.7	31	25	IRLR014TR-ND	756.00/2,000		
	60	0.1	14	56	42	IRLR024TR-ND	972.00/2,000		
	100	0.105	17	60	79	IRLR3410-ND	1.00	.80	.58
	100	0.105	17	60	79	IRLR3410TR-ND	1080.00/2,000		
	100	0.54	4.3	17	25	IRLR110-ND	1.08	.86	.61
	100	0.54	4.3	17	25	IRLR110TR-ND	702.00/2,000		
	100	0.54	4.3	17	25	IRLR110TRL-ND	1053.00/3,000		
	100	0.27	7.7	31	42	IRLR120-ND	1.29	.83	.62
	100	0.27	7.7	31	42	IRLR120TR-ND	972.00/2,000		
	100	0.185	11	35	48	IRLR120N-ND	.84	.60	.49
	100	0.185	11	35	48	IRLR120NTR-ND	964.00/2,000		
	100	0.185	11	35	48	IRLR120NTRL-ND	1419.00/3,000		
Micro-3 (SOT-23) Logic Level									
9	20	0.25	1.2	7.4	540	IRLML2402CT-ND	.66	.50	.39
	20	0.25	1.2	7.4	540	IRLML2402TR-ND	546.00/3,000		
	20	0.045	4.2	33	1.25	IRLML2502CT-ND	.66	.50	.39
	20	0.045	4.2	33	1.25	IRLML2502TR-ND	630.00/3,000		
	30	0.25	1.2	7.3	540	IRLML2803CT-ND	.60	.45	.35
	30	0.25	1.2	7.3	540	IRLML2803TR-ND	549.00/3,000		
Micro-6 (TSOP-6) Logic Level									
10	20	0.1	3.2	18	1.7	IRLMS1902CT-ND	.96	.72	.56
	20	0.1	3.2	18	1.7	IRLMS1902TR-ND	579.00/3,000		
	20	0.030	6.5	20	2.0	IRLMS2002CT-ND	.76	.57	.45
	20	0.030	6.5	20	2.0	IRLMS2002TR-ND	1050.00/3,000		
	30	0.1	3.2	18	1.7	IRLMS1503CT-ND	.87	.66	.51
	30	0.1	3.2	18	1.7	IRLMS1503TR-ND	567.00/3,000		
Micro-6 (TSOP-6)									
10	150	1.2	0.9	7	2.0	IRF5802TRCT-ND	.82	.43	.36
	150	1.2	0.9	7	2.0	IRF5802TRTR-ND	834.48/3,000		
Micro-8 Logic Level									
11A	20	0.035	5.7	30	1.8	IRF7601CT-ND	2.16	1.62	1.26
	20	0.035	5.7	30	1.8	IRF7601TR-ND	3784.00/4,000		
	20	0.135	2.4	19	1.3	IRF7521D1TR-ND	1944.00/4,000		
	20	0.030	6.5	50	1.8	IRF7607TR-ND	2332.00/4,000		
	30	0.035	5.6	30	1.8	IRF7603CT-ND	1.92	1.44	1.12
	30	0.035	5.6	30	1.8	IRF7603TR-ND	1696.00/4,000		
	30	0.11	2.7	21	1.25	IRF7523D1TR-ND	1944.00/4,000		
Micro-8 Dual Logic Level									
11B	20	0.135	2.4	19	1.25	IRF7501CT-ND	1.89	1.42	1.11
	20	0.135	2.4	19	1.25	IRF7501TR-ND	2556.00/4,000		
	30	0.135	2.4	14	1.25	IRF7503CT-ND	1.74	1.31	1.02
	30	0.135	2.4	14	1.25	IRF7503TR-ND	2264.00/4,000		
SOT-223									
12	55	0.16	1.9	15	2.1	IRFL014N-ND	.61	.49	.37
	55	0.075	2.8	11.2	2.1	IRFL024N-ND	.72	.58	.44
	55	0.045	3.7	30	2.1	IRFL4105-ND	1.29	1.03	.78
	55	0.045	3.7	30	1	IRFL4105CT-ND	2.10	1.58	1.23
	55	0.045	3.7	30	1	IRFL4105TR-ND	1609.38/2,500		
	60	0.22	1.6	6.4	2.1	IRFL1006-ND	.72	.58	.44
	60	0.2	2.7	22	3.1	IRFL014-ND	.86	.56	.43
	60	0.2	2.7	22	3.1	IRFL014TR-ND	832.50/2,500		
	100	0.54	1.5	12	3.1	IRFL110-ND	.76	.61	.44
	100	0.54	1.5	12	3.1	IRFL110TR-ND	1022.50/2,500		
	100	0.2	1.6	13	2.1	IRFL4310-ND	.97	.78	.59
	100	0.2	1.6	13	1	IRFL4310CT-ND	3.21	2.41	1.88
	100	0.2	1.6	13	1	IRFL4310TR-ND	1290.00/2,500		
	200	1.5	0.96	7.7	3.1	IRFL210-ND	.65	.52	.37
	200	1.5	0.96	7.7	3.1	IRFL210TR-ND	875.00/2,500		
	250	2	0.79	6.3	3.1	IRFL214-ND	1.40	1.12	.80

(Continued)

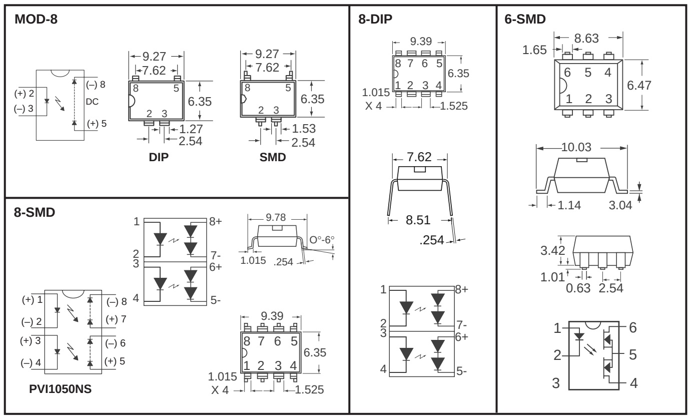
N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
SOT-223 Logic Level									
12	30	0.045	3.9	16	1	IRLL2703-ND	1.75	1.40	1.05
	30	0.031	4.6	37	1	IRLL3303CT-ND	3.78	2.84	2.21
	30	0.031	4.6	37	1	IRLL3303TR-ND		2468.03/2,500	
	55	0.14	2	16	2.1	IRLL014N-ND	.68	.54	.39
	55	0.14	2	16	2.1	IRLL014NTR-ND		945.00/2,500	
	55	0.065	3.1	12	2.1	IRLL024N-ND	.80	.64	.48
	55	0.04	3.8	30	2.1	IRLL2705-ND	1.58	1.27	.95
	55	0.04	3.8	30	1	IRLL2705CT-ND	2.10	1.58	1.23
	55	0.04	3.8	30	1	IRLL2705TR-ND		2084.73/2,500	
	60	0.2	2.7	22	3.1	IRLL014-ND	.78	.62	.45
	60	0.2	2.7	22	3.1	IRLL014TR-ND		1037.50/2,500	
	100	0.54	1.5	12	3.1	IRLL110-ND	.60	.48	.34
	100	0.54	1.5	12	3.1	IRLL110TR-ND		800.00/2,500	
SO-8									
13A	20	30	7.0	28	2.0	IRF7331-ND	1.37	.72	.65
	20	0.035	6.8	54	2.5	IRF7402-ND	1.46	1.17	.88
	20	9.0	12	100	2.5	IRF7459-ND	1.51	1.21	.91
	30	0.03	7	37	2.5	IRF9410-ND	1.12	.90	.64
	30	8.0	14	110	2.5	IRF7458-ND	1.69	1.35	1.02
	30	8.5	14	110	2.5	IRF7477-ND	1.59	.92	.77
	30	11	13	100	2.5	IRF7805A-ND	1.81	1.03	.84
	30	25	8.3	66	2.5	IRF7807A-ND	1.23	.66	.59
	30	17	8.3	66	2.5	IRF7807V-ND	1.19	.64	.57
13G	30	17	8.3	66	2.5	IRF7807VD2-ND	1.40	.80	.68
13A	30	7.0	13.3	100	2.5	IRF7809AV-ND	1.45	.84	.70
	30	11	10.8	100	2.5	IRF7811AV-ND	1.33	.70	.63
	30	5.0	18	150	3.1	IRF7822-ND	2.75	1.92	1.49
	40	.017	9.0	73	2.5	IRF7469-ND	1.44	.78	.70
	40	0.013	10	85	1.6	IRF7470-ND	1.20	.96	.72
	40	13	10	83	2.5	IRF7471-ND	1.68	.96	.80
13B	50	.130	3.0	25	2.4	IRF7103Q-ND	1.06	.63	.48
13A	60	.026	4.2	56	2.5	IRF7478-ND	1.29	.68	.62
	100	.026	6.9	55	2.5	IRF7473-ND	1.74	.99	.81
	100	0.060	4.5	36	2.5	IRF7452-ND	1.64	1.32	.99
	150	0.09	3.6	29	2.5	IRF7451-ND	2.33	1.63	1.24
	150	0.28	1.9	15	2.5	IRF7465-ND	1.67	.95	.79
	200	0.17	2.5	20	2.5	IRF7450-ND	2.08	1.46	1.11
	200	0.73	1.2	10	2.5	IRF7464-ND	1.10	.89	.67
	250	0.23	2.2	17	2.5	IRF7453-ND	1.67	.95	.79
13I	300	0.40	1.6	13	2.5	IRF3000-ND *NEW!*	.83	.66	.50
SO-8 Logic Level									
13A	20	0.022	8.7	35	2.5	IRF7401-ND	.90	.72	.52
	20	0.022	8.7	35	2.5	IRF7401TR-ND		1932.00/4,000	
	20	0.1	3.5	14	2.0	IRF7101-ND	1.05	.70	.54
	20	0.1	3.5	14	2.0	IRF7101TR-ND		1652.00/4,000	
	20	7.0	15	120	2.5	IRF7457-ND	1.73	1.39	1.04
	20	7.2	12	100	2.5	IRF7460-ND	1.46	1.17	.88
	20	0.0065	16	130	2.5	IRF7456-ND	1.25	1.00	.72
	20	0.0065	16	130	2.5	IRF7456TR-ND		2700.00/4,000	
	20	0.03	5.4	40	1.3	IRF7530CT-ND	1.44	1.08	.84
	20	0.03	5.4	40	1.3	IRF7530TR-ND		2332.00/4,000	
	28	0.012	11.4	100	2.5	IRF7811A-ND	2.20	1.50	1.18
	28	0.012	11.4	100	2.5	IRF7811ATR-ND		3696.00/4,000	
	30	0.03	7.3	58	2.5	IRF7201-ND	1.13	.75	.58
	30	0.03	7.3	58	2.5	IRF7201TR-ND		1800.00/4,000	
	30	0.022	8.5	34	2.5	IRF7403-ND	.90	.72	.52
	30	0.022	8.5	34	2.5	IRF7403TR-ND		1832.00/4,000	
	30	0.011	13	58	2.5	IRF7413-ND	1.32	.90	.72
	30	0.011	13	58	2.5	IRF7413TR-ND		2248.00/4,000	
	30	0.0075	15	120	2.5	IRF7455-ND	1.53	1.22	.87
	30	9.8	11	90	2.5	IRF7466-ND	1.69	1.35	1.02
	30	12	11	90	2.5	IRF7467-ND	1.69	1.35	1.02
	30	0.009	±12.5	±50	2.5	SI4420DY-ND	2.86	2.29	1.72
	30	0.0135	10	50	2.5	SI4410DY-ND	1.08	.87	.62
	30	0.029	6.5	52	2.0	IRF7353D2-ND	1.19	.96	.72
	30	9.0	14	109	3.1	IRF7811W-ND	1.08	.86	.65
	30	0.0075	15	120	2.5	IRF7455TR-ND		3296.00/4,000	
	30	0.008	14	110	2.5	IRF7463-ND	1.40	1.12	.80
13B	40	15.5	9.4	75	2.5	IRF7468-ND	1.80	1.44	1.08
13B	50	0.13	3.0	10	2.0	IRF7103-ND	1.04	.69	.53
	20	0.05	5.2	21	2.0	IRF7301-ND	.90	.72	.52
	20	0.05	5.2	21	2.0	IRF7301TR-ND		1944.00/4,000	
	20	0.029	6.6	26	2.0	IRF7311-ND	1.03	.74	.61
	20	0.029	6.6	26	2.0	IRF7311TR-ND		2156.00/4,000	
	30	0.05	4.9	20	2.0	IRF7303-ND	.97	.78	.56
	30	0.05	4.9	20	2.0	IRF7303TR-ND		1980.00/4,000	
	30	0.029	6.5	30	2.5	IRF7313-ND	1.96	1.34	1.07
	30	0.029	6.5	30	2.5	IRF7313TR-ND		3348.00/4,000	
	30	0.1	3.5	16	2.0	IRF9956-ND	1.63	1.30	.93
	50	0.13	3.0	10	2.0	IRF7103TR-ND		1648.00/4,000	
	55	0.05	4.7	38	2.0	IRF7341-ND	1.41	.93	.71
	55	0.05	4.7	38	2.0	IRF7341TR-ND		2296.00/4,000	
SO-8 "Fetky™" Mosfet and Schottky Diode									
13E	30	0.028	6.2	48	2.0	IRF7901D1-ND	2.50	2.00	1.50
13C	30	0.035	5.8	33	2.5	IRF7421D1-ND	1.08	.77	.63
13F	30	0.029	6.5	52	2.0	IRF7353D1-ND	.86	.69	.47
13F	30	0.029	6.5	52	2.0	IRF7353D1TR-ND		1852.00/4,000	
NEW! DirectFET™ NEW!									
22A	20	0.0038	26	200	3.6	IRF6601CT-ND	4.62	3.47	2.70
	20	0.0038	26	200	3.6	IRF6601TR-ND		9427.20/4,800	
	30	0.0039	25	200	3.6	IRF6603CT-ND	5.07	3.81	2.96
	30	0.0039	25	200	3.6	IRF6603TR-ND		10300.80/4,800	
	30	0.0033	27	220	3.6	IRF6607CT-ND	5.07	3.81	2.96
	30	0.0033	27	220	3.6	IRF6607TR-ND		10300.80/4,800	
22B	20	0.013	11	88	2.3	IRF6602CT-ND	3.21	2.41	1.88
	20	0.013	11	88	2.3	IRF6602TR-ND		6652.80/4,800	
	30	0.0115	12	92	2.3	IRF6604CT-ND	3.42	2.57	2.00
	30	0.0115	12	92	2.3	IRF6604TR-ND		7060.80/4,800	
Dual N- and P- Channel									
Micro-8 Logic Level									
11C	20/-20	.135/-.27	2.4/-1.7	19/-14	1.25	IRF7507CT-ND	2.10	1.58	1.23
	20/-20	.135/-.27	2.4/-1.7	19/-14	1.25	IRF7507TR-ND		2836.00/4,000	
	30/-30	0.11/-0.2	2.7/-2.0	21/-16	1.25	IRF7509CT-ND	1.89	1.42	1.09
	30/-30	0.11/-0.2	2.7/-2.0	21/-16	1.25	IRF7509TR-ND		1404.00/4,000	
SO-8									
13B	20/-20	0.029/-0.058	6.6/-5.3	26/-21	2	IRF7317-ND	1.03	.82	.59
	20/-20	0.029/-0.058	6.6/-5.3	26/-21	2	IRF7317TR-ND		2216.00/4,000	
	30/-30	0.029/-0.058	6.5/-4.9	30/-30	2	IRF7319-ND	2.88	2.30	1.64
SO-8 Logic Level									
13B	20/-20	0.05/-0.090	5.2/-4.3	21/-17	2	IRF7307-ND	.88	.70	.50
	20/-20	0.05/-0.090	5.2/-4.3	21/-17	2	IRF7307TR-ND		1780.00/4,000	
	25/-25	.10/-.25	3.5/-2.3	14/-10	2.0	IRF7105-ND	1.03	.68	.53
	25/-25	.10/-.25	3.5/-2.3	14/-10	2.0	IRF7105TR-ND		1644.00/4,000	
	30/-30	0.05/-0.10	4.0/-3.0	16/-12	1.4	IRF7309-ND	.88	.70	.50
	30/-30	0.05/-0.10	4.0/-3.0	16/-12	1.4	IRF7309TR-ND		1788.00/4,000	
	30/-30	0.10/-0.25	3.5/-2.3	16/-10	2	IRF9952-ND	1.83	1.46	1.04
	55/-55	0.043/-0.056	4.7/-3.4	38/-27	2	IRF7343-ND	1.25	1.00	.72
	55/-55	0.043/-0.056	4.7/-3.4	38/-27	2	IRF7343TR-ND		2700.00/4,000	
13H	30/-30	0.045/-0.090	5.8/-4.3	46/-34	2.5	IRF7379-ND	3.00	2.40	1.71
	30/-30	0.029/-0.058	7.3/-5.3	30/-30	2.5	IRF7389-ND	2.88	2.30	1.64

Photovoltaic Isolators

The PhotoVoltaic isolator (PVI) generates an electrically isolated DC voltage upon receipt of a DC input signal. The PVI is ideally suited for driving power MOSFETs, IGBTs or sensitive gate SCRs to form solid state relays.

Input Circuit			Output Circuit							
Vf (led)	Imin (mA)	Imax (mA)	Vout (dc)	Imin (µA)	Ton/Toff Max	Pkg.	Digi-Key Part No.	Price Each 1	10	100
1.4	5.0	40	8.0	10	5/0.25ms	8-Dip	PVI5013R-ND	5.12	3.66	2.93
1.4	5.0	40	8.0	10	5/0.25ms	8-SMD	PVI5013RS-ND	5.18	3.70	2.96
1.4	5.0	40	40	10	2.5/0.5ms	8-Dip	PVI5033R-ND	5.02	3.57	2.84
1.4	5.0	40	40	10	2.5/0.5ms	8-SMD	PVI5033RS-ND	5.07	3.60	2.86
1.4	2.0	50	8.0	10	3/0.22ms	MOD-8 Dip	PVI5050N-ND	4.65	3.26	2.54
1.4	2.0	50	8.0	10	3/0.22ms	MOD-8-Dip	PVI5080N-ND	4.45	3.18	2.58
1.4	2.0	50	8.0	10	.16/.22ms	8-Dip	PVI1050N-ND	6.05	4.51	3.76
1.4	2.0	50	8.0	10	3/0.22ms	8-SMD	PVI1050NS-ND	6.10	4.40	3.66
1.4	2.0	50	8.0	10	3/0.22ms	MOD-8-SMD	PVI5050NS-ND	4.71	3.30	2.57
1.4	2.0	50	8.0	10	3/0.22ms	MOD-8-SMD	PVI5080NS-ND	4.43	3.06	2.58
2.0	2.0	25	190	1.0	3.0/0.5ms	6-SMD	PVT312LS-ND	2.39	1.91	1.44
2.0	2.0	25	210	1.0	3.0/0.5ms	6-SMD	PVT312S-ND	2.32	1.86	1.40
2.0	2.0	25	170	1.0	3.0/0.5ms	8-Dip	PVT322A-ND	10.28	8.22	6.17
2.0	2.0	25	170	1.0	3.0/0.5ms	8-SMD	PVT322AS-ND	10.38	8.30	6.23
2.0	2.0	25	120	1.0	2.0/2.0ms	8-SMD	PVT422S-ND	4.70	3.77	2.83



Infineon technologies

Mosfet

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		Infineon Part No.
								1	10	100		Size	Pricing	
SOT-223	P-CH	-60	0.8	-1.17	-4.68	1.8	BSP315PINCT-ND	.74	.59	.45	BSP315PINTR-ND	1,000	267.00	BSP315P-E6327
SOT-23	P-CH	-60	8	-0.17	-0.68	0.36	BSS84PINCT-ND	.41	.28	.20	BSS84PINTR-ND	3,000	67.00/M	BSP84P-E6327
SOT-89	P-CH	-250	12	-0.19	-0.76	1	BSS192INCT-ND	.71	.57	.43	BSS192INTR-ND	1,000	258.00	BSS192E6327
SOT-143	N-CH	12	—	0.3	—	200	BF998INCT-ND*	.55	.41	.29	BF998INTR-ND	3,000	119.00/M	BF998E6327
SOT-223	N-CH	50	0.3	1.8	7.2	1.8	BSP295INCT-ND	.77	.62	.46	BSP295INTR-ND	1,000	309.00	BSP295E6327
TO-220AB	N-CH	50	0.12	15.5	62	50	BTS115AIN-ND	2.60	2.39	2.21	—	—	—	BTS115A
SOT-23	N-CH	50	3.5	0.22	0.88	0.36	BSS138INCT-ND	.35	.24	.17	BSS138INTR-ND	3,000	58.00/M	BSS138E6327
SOT-23	N-CH	100	6	0.17	0.68	0.36	BSS119INCT-ND	.41	.32	.23	BSS119INTR-ND	3,000	115.00/M	BSS119E6327
SOT-223	N-CH	100	6	0.38	0.68	1.7	BSP123INCT-ND	.56	.43	.31	BSP123INTR-ND	1,000	156.00	BSP123E6327
SOT-223	N-CH	100	0.8	1	4	1.8	BSP296INCT-ND	.77	.62	.46	BSP296INTR-ND	1,000	309.00	BSP296E6327
SOT-23	N-CH	100	6	0.17	0.68	0.36	BSS123INCT-ND	.35	.24	.17	BSS123INTR-ND	3,000	58.00/M	BSS123E6327
TO-220AB	N-CH	100	0.1	22	88	95	BTS121AIN-ND	3.58	3.29	3.04	—	—	—	BTS121A
TO-220AB	N-CH	100	0.085	21	84	75	BUZ21IN-ND	1.15	1.05	.97	—	—	—	BUZ21
TO-220AB	N-CH	200	0.13	21	84	125	BUZ30AIN-ND	1.04	.95	.88	—	—	—	BUZ30A
TO-220AB	N-CH	200	0.4	7	28	40	BUZ73IN-ND	.49	.45	.42	—	—	—	BUZ73
SOT-223	N-CH	240	20	0.2	0.6	1.7	BSP129INCT-ND	.88	.71	.53	BSP129INTR-ND	1,000	356.00	BSP129E6327
SOT-223	N-CH	240	8	0.32	1.28	1.7	BSP88INCT-ND	.75	.60	.45	BSP88INTR-ND	1,000	271.00	BSP88E6327
SOT-23	N-CH	240	16	0.1	0.4	0.36	BSS131INCT-ND	.48	.36	.26	BSS131INTR-ND	3,000	104.00/M	BSS131E6327
SOT-89	N-CH	240	6	0.29	1.16	1	BSS87INCT-ND	.71	.57	.43	BSS87INTR-ND	1,000	287.00	BSS87E6327
TO-220AB	N-CH	800	3	3.6	14.5	100	BUZ80AIN-ND	1.93	1.77	1.63	—	—	—	BUZ80A

* Dual

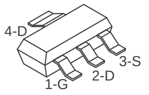
Cool MOS™ Power

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		Infineon Part No.
								1	10	100		Size	Pricing	
TO-220AB	P-CH	-60	0.3	-8.8	-35.2	42	SPP08P06PIN-ND	.36	.33	.30	—	—	—	SPP08P06P
TO-220AB	P-CH	-60	0.13	-18.6	-74.4	80	SPP18P06PIN-ND	.60	.55	.51	—	—	—	SPP18P06P
TO-247	N-CH	600	0.07	47	94	415	SPW47N60C2IN-ND	8.11	7.44	6.87	—	—	—	SPW47N60C2
D-PAK	N-CH	650	0.6	7.3	14.6	83	SPD07N60S5INCT-ND	1.68	1.40	1.18	SPD07N60S5INTR-ND	2,500	1018.00/M	SPD07N60S5
TO-22OAB	N-CH	650	1.4	3.2	5.7	38	SPP03N60S5IN-ND	.66	.60	.56	—	—	—	SPP03N60S5
TO-220AB	N-CH	650	0.6	7.3	14.6	83	SPP07N60S5IN-ND	1.04	.95	.88	—	—	—	SPP07N60S5
TO-220AB	N-CH	650	0.38	11	22	125	SPP11N60S5IN-ND	1.55	1.42	1.31	—	—	—	SPP11N60S5
TO-220AB	N-CH	650	0.19	20	40	208	SPP20N60C2IN-ND	2.60	2.39	2.20	—	—	—	SPP20N60C2
TO-220AB	N-CH	650	0.19	20	40	208	SPP20N60S5IN-ND	2.55	2.34	2.16	—	—	—	SPP20N60S5
TO-247	N-CH	650	0.19	20	40	208	SPW20N60S5IN-ND	3.22	2.95	2.73	—	—	—	SPW20N60S5
TO-247	N-CH	650	0.19	20.7	62.1	208	SPW20N60C3IN-ND	3.22	2.95	2.73	—	—	—	SPW20N60C3
TO-220AB	N-CH	800	0.9	6	18	83	SPP06N80C3IN-ND	1.27	1.17	1.08	—	—	—	SPP06N80C3

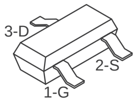
IGBT'S

Package	Vce (V)	Vce(sat) max (V)	Ic @ 25°C (A)	Pulse Current Ic (A)	Ptot (W)	Digi-Key Part No.	Price Each			Infineon Part No.
							1	10	100	
TO-220AB	1200	3.2	32	64	200	BUP213IN-ND	2.46	2.25	2.08	BUP213
TO-218AB	1200	3.2	42	87	300	BUP314DIN-ND	6.64	6.09	5.62	BUP314D
TO-220AB	600	2.5	30	112	250	SGP30N60IN-ND	2.31	2.12	1.96	SGP30N60

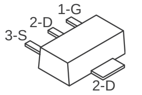
SOT-223



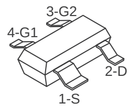
SOT-23



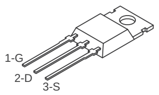
SOT-89



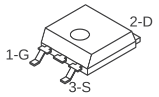
SOT-143



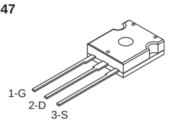
TO-220AB



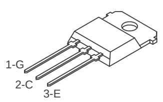
D-PAK



TO-247



TO-218AB

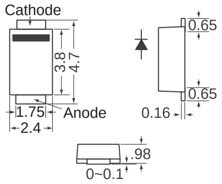


TOSHIBA Schottky Barrier Rectifiers and Switching Rectifier

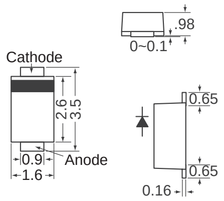
Peak Rev. Voltage VRRM(V)	Avg. Forward Current IF(A)	Peak Surge Foward Cur. IFSM (A)	Peak Fwd. Volt. VFM (V)	Repetitive Peak Rev. Current (mA)	Junction Capacitance Cj (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000
							1	10	100		
M-Flat (3-4E1A) Package											
30	3.0	40	.37	5.0	190	CMS01CT-ND	.48	.36	.27	CMS01TR-ND	156.00/M
30	3.0	40	.40	0.5	170	CMS02CT-ND	.48	.36	.27	CMS02TR-ND	156.00/M
30	3.0	40	.45	0.5	190	CMS03CT-ND	.48	.36	.27	CMS03TR-ND	156.00/M
30	5.0	70	.37	8.0	330	CMS04CT-ND	.48	.36	.27	CMS04TR-ND	156.00/M
30	5.0	70	.45	0.8	330	CMS05CT-ND	.48	.36	.27	CMS05TR-ND	156.00/M
30	2.0	40	.37	3.0	130	CMS06CT-ND	.55	.44	.33	CMS06TR-ND	148.50/M
30	2.0	40	.45	0.5	130	CMS07CT-ND	.48	.36	.27	CMS07TR-ND	156.00/M
30	1.0	25	.37	1.5	70	CMS08CT-ND	.45	.36	.27	CMS08TR-ND	121.50/M
30	1.0	25	.45	0.5	70	CMS09CT-ND	.48	.36	.27	CMS09TR-ND	156.00/M
40	1.0	25	.55	0.5	50	CMS10CT-ND	.48	.36	.27	CMS10TR-ND	156.00/M
40	2.0	30	.55	0.5	95	CMS11CT-ND	.55	.44	.33	CMS11TR-ND	148.50/M
S-Flat (3-2A1A) Package											
200	1.0	15	.98	0.01	—	CRH01CT-ND*†	.55	.44	.33	CRH01TR-ND*†	148.50/M
30	1.0	20	.37	1.5	40	CRS01CT-ND	.45	.36	.27	CRS01TR-ND	121.50/M
30	1.0	20	.40	0.05	40	CRS02CT-ND	.46	.37	.26	CRS02TR-ND	119.00/M
30	1.0	20	.45	0.1	40	CRS03CT-ND	.46	.37	.26	CRS03TR-ND	119.00/M
40	1.0	20	.49	0.1	47	CRS04CT-ND	.55	.44	.33	CRS04TR-ND	148.50/M
30	1.0	30	.45	0.2	60	CRS05CT-ND	.40	.32	.24	CRS05TR-ND	108.00/M
20	1.0	20	.36	1.0	60	CRS06CT-ND	.50	.40	.30	CRS06TR-ND	135.00/M
30	1.5	30	.36	1.0	90	CRS08CT-ND	.48	.36	.27	CRS08TR-ND	156.00/M
30	1.5	30	.46	0.05	90	CRS09CT-ND	.48	.36	.27	CRS09TR-ND	156.00/M
30	1.0	20	.36	1.5	60	CRS11CT-ND	.55	.44	.33	CRS11TR-ND	148.50/M

* Reverse Recovery Time — Trr 35ns † Switching type

M-Flat Pkg. (3-4E1A)



S-Flat Pkg. (3-2A1A)

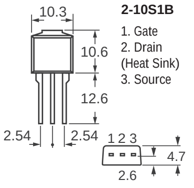


TOSHIBA MOSFETs

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max (W)	Digi-Key Part No.	Price Each			Tape & Reel	
							1	10	100	Size	Pricing*
P-Channel Types											
TO-220FL (2-10S1B) Package											
1	-100	0.15	-16	-64	60	2SJ412-ND	1.54	1.23	.93	—	—
2-7B2B Package											
2	-60	0.16	-5	-20	20	2SJ377TE16CT-ND‡	2.70	2.03	1.24	700	535.50
VS-6 (2-3T1A) Package											
9A	-20	0.048	-4.5	-18	0.7	TPC6101CT-ND‡	.58	.44	.33	3,000	188.50/M
9A	-30	0.048	-4.5	-18	0.7	TPC6102CT-ND‡	.58	.44	.33	3,000	188.50/M
SOP-8 (2-6J1B) Package											
10A	-30	0.014	-10	-40	1.0	TPC8106-HCT-ND‡§	1.26	1.05	.84	3,000	546.00/M
10A	-30	0.014	-10	-40	1.0	TPC8109CT-ND‡	1.26	1.05	.84	3,000	546.00/M
TSSOP-8 Package											
12	-20	0.016	-6	-24	1.5	TPCS8102CT-ND‡	.90	.75	.60	3,000	390.00/M
N-Channel Types											
2-7B2B Package											
2	100	0.28	3	12	20	2SK2201TE16CT-ND‡	2.82	2.12	1.29	700	559.30
	60	0.12	5	20	20	2SK2231TE16CT-ND‡	2.64	1.98	1.21	700	523.60
TO-220AB Package											
3	100	0.066	27	108	75	2SK2314-ND	1.42	1.14	.86	—	—
	200	0.18	15	45	80	YTA640-ND	1.54	1.23	.93	—	—
	400	0.40	10	40	80	2SK2841-ND	1.65	1.32	.99	—	—
	500	0.75	8	32	80	2SK2542-ND	1.45	1.16	.87	—	—
	60	0.15	45	180	125	2SK1542-ND	2.33	1.87	1.46	—	—
2-7B1B Package											
4	60	0.12	5	20	20	2SK2231-ND	.82	.62	.47	—	—
	50	0.032	20	50	40	2SK2614-ND	1.02	.82	.61	—	—
2-10R1B Package											
5	60	0.036	25	100	35	2SK2232T-ND	1.26	1.05	.84	—	—
	60	0.013	45	180	45	2SK2312-ND	2.40	1.92	1.44	—	—
	900	3.7	3	9	40	2SK2700T-ND†	1.44	1.15	.87	—	—
2-16C1B Package											
6	500	0.35	15	60	150	2SK2698T-ND	2.36	1.89	1.47	—	—
	100	0.025	50	200	150	2SK1381-ND	5.01	4.52	4.01	—	—
	500	0.75	10	40	125	2SK2601-ND	1.90	1.52	1.14	—	—
	900	1.05	10	30	150	2SK2968-ND	3.33	2.67	2.08	—	—
2-16F1B Package											
7	600	0.31	15	60	90	2SK2953-ND	2.90	2.32	1.96	—	—
2-16H1B Package											
8	500	0.21	20	80	160	2SK3117-ND	4.50	3.60	3.04	—	—
VS-6 Package											
9A	20	.022	6	24	0.7	TPC6001CT-ND‡	.58	.44	.33	3,000	188.50/M
9A	30	.025	6	24	0.7	TPC6002CT-ND‡	.58	.44	.33	3,000	188.50/M
9B	30	.080	2.5	10	0.31	TPC6201CT-ND‡	.48	.36	.27	3,000	156.00/M
SOP-8 Package											
10A	30	0.008	13	52	1.0	TPC8009-HCT-ND‡	.81	.68	.54	3,000	351.00/M
10A	200	0.28	1.8	7.2	1.0	TPC8012-HCT-ND‡	1.20	1.00	.80	3,000	520.00/M
10A	30	0.005	15	60	1.0	TPC8013-HCT-ND‡	1.14	.95	.76	3,000	494.00/M
10B	20	0.016	6	24	0.45	TPC8207CT-ND‡	.84	.70	.56	3,000	364.00/M
10B	20	0.038	5	20	0.45	TPC8208CT-ND‡	.87	.73	.58	3,000	377.00/M
PW-Mini (2-5K1B) Package											
11	16	0.22	2	6	0.5	2SK2549CT-ND‡	.78	.65	.52	1,000	345.80/M
TSSOP-8 Package (Dual)											
12	20	0.030	5	20	1.0	TPCS8205CT-ND‡	.84	.70	.56	3,000	364.00/M
12	20	0.019	5	20	.35	TPCS8209CT-ND‡	.84	.70	.56	3,000	364.00/M

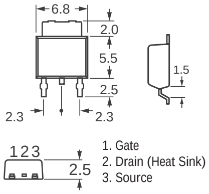
* For Tape and Reel Part Number, change CT-ND to TR-ND ‡ Cut Tape Pricing.
† Isolated Tab § High Speed U-MOSII

Fig. 1 — TO-220FL Pkg.



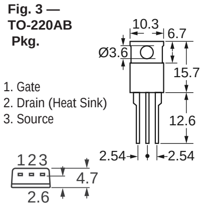
2-10S1B
1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 2 — 2-7B2B Pkg.



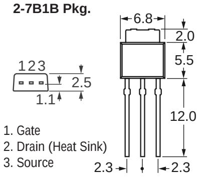
1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 3 — TO-220AB Pkg.



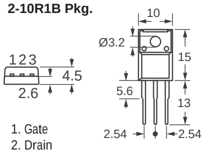
1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 4 — 2-7B1B Pkg.



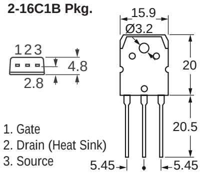
1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 5 — 2-10R1B Pkg.



1. Gate
2. Drain
3. Source

Fig. 6 — 2-16C1B Pkg.



1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 7 — 2-16F1B Pkg.

1. Gate
2. Drain
3. Source

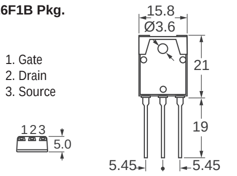
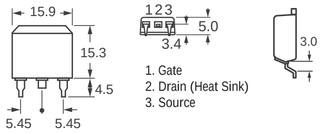


Fig. 8 — 2-16H1B Pkg.



1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 9 — VS-6 Pkg.

A. (2-3T1A)
1. Drain 4. Source
2. Drain 5. Drain
3. Gate 6. Drain

B. (2-3T1B) Dual
1. Gate 4. Drain
2. Source 5. Source
3. Gate 6. Drain

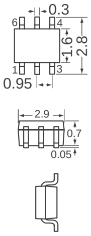


Fig. 10 — SOP-8 Pkg.

A. (2-6J1B)
1., 2., 3. Source
4 Gate
5., 6., 7., 8. Drain

B. (2-6J1E) Dual
1. Source 4. Gate
2. Gate 5., 6. Drain
3. Source 7., 8. Drain

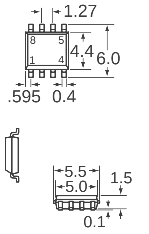


Fig. 11 — PW-Mini Pkg.

(2-5K1B)
1. Gate
2. Drain (Heat Sink)
3. Source

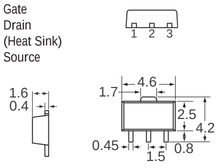
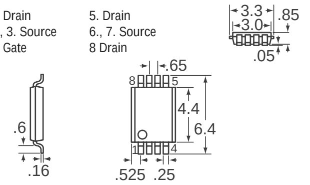


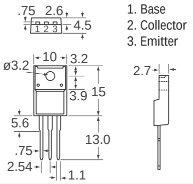
Fig. 12 — TSSOP-8 Pkg. (Dual)

1. Drain 5. Drain
2., 3. Source 6., 7. Source
4. Gate 8 Drain

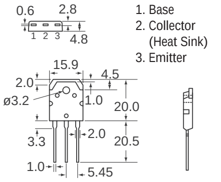


Bipolar Transistors

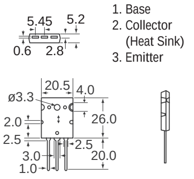
TO-220 (NIS) Pkg. (2-10R1A)
1. Base
2. Collector
3. Emitter



TO-3P(N) Pkg. (2-16C1A)
1. Base
2. Collector (Heat Sink)
3. Emitter



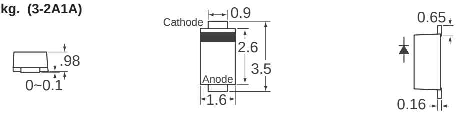
TO-3P(L) Pkg. (2-21F1A)
1. Base
2. Collector (Heat Sink)
3. Emitter



Type	Collector-Emitter Volt. VCEO (V)	Collector Power IC (A)	Collector Power Dissipation PC (W)	Digi-Key Part No.	Price Each		
					1	10	100
TO-220 (NIS) Package							
PNP	-230	-1	20	2SA1837-ND	.72	.54	.41
NPN	230	1	20	2SC4793-ND	.72	.54	.41
TO-3P(N) Package							
PNP	-230	-15	130	2SA1962-O-ND	2.48	1.98	1.54
NPN	230	15	130	2SC5242-O-ND	2.48	1.98	1.54
TO-3P(L) Package							
PNP	-200	-15	150	2SA1302-O-ND	2.48	1.98	1.54
PNP	-230	-15	150	2SA1943-O-ND	2.25	1.80	1.40
NPN	200	15	150	2SC3281-O-ND	2.48	1.98	1.54
NPN	230	15	150	2SC5200-O-ND	2.25	1.80	1.40

Zener Diodes

S-Flat Pkg. (3-2A1A)



Maximum Ratings (Ta=25°C): • Power dissipation 700 mW

Zener Volt. Typ. VZ (V)	Max Imped. rd (Ω)	Test Current IZ (mA)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
S-Flat Package								
10.0	30	10	CRZ10CT-ND	.60	.45	.34	CRZ10TR-ND	195.00/M
11.0	30	10	CRZ11CT-ND	.60	.45	.34	CRZ11TR-ND	195.00/M
12.0	30	10	CRZ12CT-ND	.60	.45	.34	CRZ12TR-ND	195.00/M
13.0	30	10	CRZ13CT-ND	.60	.45	.34	CRZ13TR-ND	195.00/M
15.0	30	10	CRZ15CT-ND	.56	.42	.32	CRZ15TR-ND	182.00/M
16.0	30	10	CRZ16CT-ND	.56	.42	.32	CRZ16TR-ND	182.00/M
20.0	30	10	CRZ20CT-ND	.60	.45	.34	CRZ20TR-ND	195.00/M
22.0	30	10	CRZ22CT-ND	.56	.42	.32	CRZ22TR-ND	182.00/M
24.0	30	10	CRZ24CT-ND	.60	.45	.34	CRZ24TR-ND	195.00/M
27.0	30	10	CRZ27CT-ND	.56	.42	.32	CRZ27TR-ND	182.00/M
30.0	30	10	CRZ30CT-ND	.60	.45	.34	CRZ30TR-ND	195.00/M
33.0	30	10	CRZ33CT-ND	.60	.45	.34	CRZ33TR-ND	195.00/M
36.0	30	9	CRZ36CT-ND	.60	.45	.34	CRZ36TR-ND	195.00/M
39.0	35	8	CRZ39CT-ND	.60	.45	.34	CRZ39TR-ND	195.00/M
43.0	40	7	CRZ43CT-ND	.60	.45	.34	CRZ43TR-ND	195.00/M
47.0	65	6	CRZ47CT-ND	.60	.45	.34	CRZ47TR-ND	195.00/M

Diodes-Bridge Rectifiers

Fig. 1

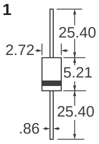


Fig. 2

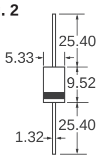


Fig. 3

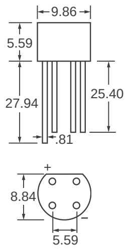


Fig. 4

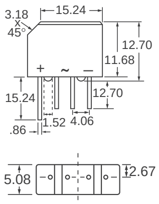


Fig. 5

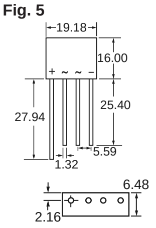


Fig. 6

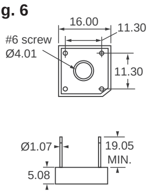


Fig. 7

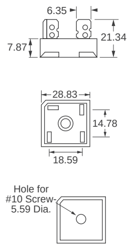


Fig.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Typ. Reverse Recovery Time (µS)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,400	5,500
Silicon Rectifiers													
1	1.0	50	30	1.1	30	-50 to 175	1N4001GICT-ND	—	.40	3.20	1N4001GITR-ND	—	16.00/M
		100	30	1.1	30	-50 to 175	1N4002GICT-ND	—	.40	3.20	1N4002GITR-ND	—	16.00/M
		200	30	1.1	30	-50 to 175	1N4003GICT-ND	—	.40	3.20	1N4003GITR-ND	—	16.00/M
		400	30	1.1	30	-50 to 175	1N4004GICT-ND	—	.40	3.20	1N4004GITR-ND	—	16.00/M
		600	30	1.1	30	-50 to 175	1N4005GICT-ND	—	.40	3.20	1N4005GITR-ND	—	16.00/M
		800	30	1.1	30	-50 to 175	1N4006GICT-ND	—	.40	3.20	1N4006GITR-ND	—	16.00/M
		1000	30	1.1	30	-50 to 175	1N4007GICT-ND	—	.40	3.20	1N4007GITR-ND	—	16.00/M
2	3.0	50	200	1.2	—	-50 to 170	1N5400GICT-ND	.32	2.31	16.80	1N5400GITR-ND	105.00/M	—
		100	200	1.2	—	-50 to 170	1N5401GICT-ND	.32	2.31	16.80	1N5401GITR-ND	105.00/M	—
		200	200	1.2	—	-50 to 170	1N5402GICT-ND	.32	2.31	16.80	1N5402GITR-ND	105.00/M	—
		400	200	1.2	—	-50 to 170	1N5404GICT-ND	.32	2.31	16.80	1N5404GITR-ND	105.00/M	—
		600	200	1.2	—	-50 to 170	1N5406GICT-ND	.32	2.31	16.80	1N5406GITR-ND	105.00/M	—
		800	200	1.2	—	-50 to 170	1N5407GICT-ND	.32	2.31	16.80	1N5407GITR-ND	105.00/M	—
		1000	200	1.2	—	-50 to 170	1N5408GICT-ND	.32	2.31	16.80	1N5408GITR-ND	105.00/M	—
Schottky Barrier Rectifiers													
1	1.0	20	25	.45	—	-65 to 125	1N5817GICT-ND	.45	3.30	24.00	1N5817GITR-ND	—	114.00/M
		30	25	.55	—	-65 to 125	1N5818GICT-ND	.45	3.30	24.00	1N5818GITR-ND	—	114.00/M
		40	25	.60	—	-65 to 125	1N5819GICT-ND	.45	3.30	24.00	1N5819GITR-ND	—	114.00/M
2	3.0	20	80	.475	—	-65 to 125	1N5820GICT-ND	.83	6.05	44.00	1N5820GITR-ND	209.00/M	—
		30	80	.500	—	-65 to 125	1N5821GICT-ND	.83	6.05	44.00	1N5821GITR-ND	209.00/M	—
		40	80	.525	—	-65 to 125	1N5822GICT-ND	.83	6.05	44.00	1N5822GITR-ND	209.00/M	—
2	5.0	20	150	0.55	—	-65 to 125	SB520CT-ND	.39	3.30	27.50	SB520TR-ND	176.00/M	—
		30	150	0.55	—	-65 to 125	SB530CT-ND	.39	3.30	27.50	SB530TR-ND	176.00/M	—
		40	150	0.55	—	-65 to 125	SB540CT-ND	.39	3.30	27.50	SB540TR-ND	176.00/M	—
		50	150	0.67	—	-65 to 125	SB550CT-ND	.44	3.75	31.25	SB550TR-ND	200.00/M	—
		60	150	0.67	—	-65 to 125	SB560CT-ND	.44	3.75	31.25	SB560TR-ND	200.00/M	—

Fig.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Pricing 1	10	100	500
Silicon and Glass Passivated Bridge Rectifiers										
3	1.5	50	50	1.0	-55 to 150	W005GGI-ND	.46	3.90	32.50	130.00
		100	50	1.0	-55 to 150	W01GGI-ND	.46	3.90	32.50	130.00
		200	50	1.0	-55 to 150	W02GGI-ND	.46	3.90	32.50	130.00
		400	50	1.0	-55 to 150	W04GGI-ND	.46	3.90	32.50	130.00
		600	50	1.0	-55 to 150	W06GGI-ND	.49	4.20	35.00	140.00
		800	50	1.0	-55 to 150	W08GGI-ND	.49	4.20	35.00	140.00
		1000	50	1.0	-55 to 150	W10GGI-ND	.49	4.20	35.00	140.00
4	2.0	50	30	1.1	-55 to 165	2KBP005M-ND	.81	6.90	—	—
		100	30	1.1	-55 to 165	2KBP01M-ND	.81	6.90	—	—
		200	30	1.1	-55 to 165	2KBP02M-ND	.81	6.90	—	—
		400	30	1.1	-55 to 165	2KBP04M-ND	.81	6.90	—	—
		600	30	1.1	-55 to 165	2KBP06M-ND	.81	6.90	—	—
		800	30	1.1	-55 to 165	2KBP08M-ND	.81	6.90	—	—
		1000	30	1.1	-55 to 165	2KBP10M-ND	.81	6.90	—	—
5	4.0	50	200	1.1	-50 to 150	KBL005-ND	1.86	16.97	155.25	—
		100	200	1.1	-50 to 150	KBL01-ND	1.90	17.34	158.63	—
		200	200	1.1	-50 to 150	KBL02-ND	1.97	17.92	163.88	—
		400	200	1.1	-50 to 150	KBL04-ND	2.07	18.86	172.50	—
		600	200	1.1	-50 to 150	KBL06-ND	2.12	19.27	176.25	—
		800	200	1.1	-50 to 150	KBL08-ND	2.16	19.68	180.00	—
		1000	200	1.1	-50 to 150	KBL10-ND	2.25	20.50	187.50	—
6	6.0	50	175	1.0	-55 to 150	GBPC6005-ND	2.17	18.60	155.00	—
		100	175	1.0	-55 to 150	GBPC601-ND	2.17	18.60	155.00	—
		200	175	1.0	-55 to 150	GBPC602-ND	2.17	18.60	155.00	—
		400	175	1.0	-55 to 150	GBPC604-ND	2.17	18.60	155.00	—
		600	175	1.0	-55 to 150	GBPC606-ND	2.31	19.80	165.00	—
		800	175	1.0	-55 to 150	GBPC608-ND	2.31	19.80	165.00	—
		1000	175	1.0	-55 to 150	GBPC610-ND	2.31	19.80	165.00	—
7	12	50	200	1.1	-55 to 150	GBPC12005-ND	3.50	30.00	250.00	—
		100	200	1.1	-55 to 150	GBPC1201-ND	3.50	30.00	250.00	—
		200	200	1.1	-55 to 150	GBPC1202-ND	3.50	30.00	250.00	—
		400	200	1.1	-55 to 150	GBPC1204-ND	3.50	30.00	250.00	—
		600	200	1.1	-55 to 150	GBPC1206-ND	3.50	30.00	250.00	—
		800	200	1.1	-55 to 150	GBPC1208-ND	3.50	30.00	250.00	—
		1000	200	1.1	-55 to 150	GBPC1210-ND	3.50	30.00	250.00	—

(Continued)

Diodes-Bridge Rectifiers *(Cont.)*

Fig. 8

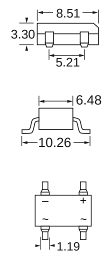


Fig. 9

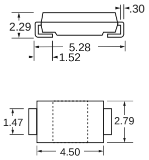


Fig. 10

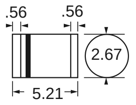


Fig.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
Silicon and Glass Passivated Bridge Rectifiers (Cont.)									
7	25	50	300	1.1	-55 to 150	GBPC25005-ND	3.78	32.40	270.00
		100	300	1.1	-55 to 150	GBPC2501GI-ND	3.78	32.40	270.00
		200	300	1.1	-55 to 150	GBPC2502GI-ND	3.78	32.40	270.00
		400	300	1.1	-55 to 150	GBPC2504GI-ND	3.78	32.40	270.00
		600	300	1.1	-55 to 150	GBPC2506GI-ND	3.78	32.40	270.00
		800	300	1.1	-55 to 150	GBPC2508GI-ND	3.78	32.40	270.00
		1000	300	1.1	-55 to 150	GBPC2510GI-ND	3.78	32.40	270.00
7	35	50	400	1.1	-55 to 150	GBPC35005-ND	4.38	37.50	312.50
		100	400	1.1	-55 to 150	GBPC3501GI-ND	4.38	37.50	312.50
		200	400	1.1	-55 to 150	GBPC3502GI-ND	4.38	37.50	312.50
		400	400	1.1	-55 to 150	GBPC3504GI-ND	4.38	37.50	312.50
		600	400	1.1	-55 to 150	GBPC3506GI-ND	4.38	37.50	312.50
		800	400	1.1	-55 to 150	GBPC3508GI-ND	4.38	37.50	312.50
		1000	400	1.1	-55 to 150	GBPC3510GI-ND	4.38	37.50	312.50

Fig.	Max. Avg. Rect. Current (A)	Max. Peak Rev. Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Typ. Rev. Recovery Time (µS)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 1,500	Tape & Reel Pricing 1,800
Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier													
8	1.0	200	50	1.1	5.0	-55 to 150	DF02SGICT-ND	.53	4.50	37.50	DF02SGITR-ND	225.00/M	—
		400	50	1.1	5.0	-55 to 150	DF04SGICT-ND	.53	4.50	37.50	DF04SGITR-ND	225.00/M	—
		600	50	1.1	5.0	-55 to 150	DF06SGICT-ND	.56	4.80	40.00	DF06SGITR-ND	240.00/M	—
Surface Mount Schottky Rectifier — DO-214AC													
9	1.0	20	30	0.50	0.5	-65 to 125	SS12GICT-ND	.35	3.00	25.00	SS12GITR-ND	—	150.00/M
		60	30	0.75	0.5	-65 to 125	SS16GICT-ND	.35	3.00	25.00	SS16GITR-ND	—	150.00/M
Surface Mount Schottky Barrier Rectifier — DO-213AB													
10	1.0	20	30	0.50	0.5	-55 to 125	SGL41-20GICT-ND	.28	2.40	20.00	SGL41-20GITR-ND	120.00/M	—
		40	30	0.50	0.5	-55 to 125	SGL41-40GICT-ND	.28	2.40	20.00	SGL41-40GITR-ND	120.00/M	—
		60	30	0.70	0.5	-55 to 150	SGL41-60GICT-ND	.28	2.40	20.00	SGL41-60GITR-ND	120.00/M	—

Microsemi® Zener Diodes

Fig. 1
DO-35
500 mW

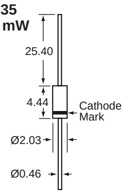


Fig. 2
DO-41
1 W

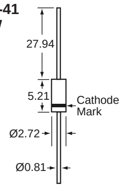
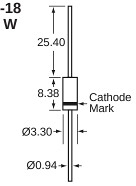


Fig. 3
T-18
5 W



500 mW Series DO-35 Silicon Zener Diodes, 1N5221 — 1N5281

(Value)	Nom. Zener Voltage Vz @ Izt Volts	Test Current Izt mA	(Value)	Nom. Zener Voltage Vz @ Izt Volts	Test Current Izt mA	(Value)	Nom. Zener Voltage Vz @ Izt Volts	Test Current Izt mA	(Value)	Nom. Zener Voltage Vz @ Izt Volts	Test Current Izt mA	(Value)	Nom. Zener Voltage Vz @ Izt Volts	Test Current Izt mA
21	2.4	20	34	6.2	20	47	17	7.4	61	47	2.7	74	130	0.95
22	2.5	20	35	6.8	20	48	18	7.0	62	51	2.5	75	140	0.90
23	2.7	20	36	7.5	20	49	19	6.6	63	56	2.2	76	150	0.85
24	2.8	20	37	8.2	20	50	20	6.2	64	60	2.1	77	160	0.80
25	3.0	20	38	8.7	20	51	22	5.6	65	62	2.0	78	170	0.74
26	3.3	20	39	9.1	20	52	24	5.2	66	68	1.8	79	180	0.68
27	3.6	20	40	10	20	53	25	5.0	67	75	1.7	81	200	0.65
28	3.9	20	41	11	20	54	27	4.6	68	82	1.5			
29	4.3	20	42	12	20	55	28	4.5	69	87	1.4			
30	4.7	20	43	13	9.5	57	33	3.8	70	91	1.4			
31	5.1	20	44	14	9.0	58	36	3.4	71	100	1.3			
32	5.6	20	45	15	8.5	59	39	3.2	72	110	1.1			
33	6.0	20	46	16	7.8	60	43	3.0	73	120	1.0			

1W Series, DO-41 Glass Zener Diodes
1N4728A — 1N4764A

(Value)	Zener Voltage (Vz) Volts	Test Current (Izt) mA	(Value)	Zener Voltage (Vz) Volts	Test Current (Izt) mA
28	3.3	76	46	18	14
29	3.6	69	47	20	12.5
30	3.9	64	48	22	11.5
31	4.3	58	49	24	10.5
32	4.7	53	50	27	9.5
33	5.1	49	51	30	8.5
34	5.6	45	52	33	7.5
35	6.2	41	53	36	7.0
36	6.8	37	54	39	6.5
37	7.5	34	55	43	6.0
38	8.2	31	56	47	5.5
39	9.1	28	57	51	5.0
40	10	25	58	56	4.5
41	11	23	59	62	4.0
42	12	21	60	68	3.7
43	13	19	61	75	3.3
44	15	17	62	82	3.0
45	16	15.5	63	91	2.8
			64	100	2.5

2 W Series, DO-41 Silicon Zener Diodes
2EZ3.6D5 — 2EZ200D5

(Value)	Nominal Zener Voltage (Vz) Volts	Nominal Zener Voltage (Izt) mA	(Value)	Nominal Zener Voltage (Vz) Volts	Nominal Zener Voltage (Izt) mA	(Value)	Nominal Zener Voltage (Vz) Volts	Nominal Zener Voltage (Izt) mA
3.6	3.6	139	16	16	31.2	68	68	7.4
3.9	3.9	128	17	17	29.4	75	75	6.7
4.3	4.3	116	18	18	27.8	82	82	6.1
4.7	4.7	106	19	19	26.3	91	91	5.5
5.1	5.1	98	20	20	25	100	100	5.0
5.6	5.6	89.5	22	22	22.8	110	110	4.5
6.2	6.2	80.5	24	24	20.8	120	120	4.2
6.8	6.8	73.5	27	27	18.5	130	130	3.8
7.5	7.5	66.5	30	30	16.6	140	140	3.6
8.2	8.2	61	33	33	15.1	150	150	3.3
9.1	9.1	55	36	36	13.9	160	160	3.1
10	10	50	39	39	12.8	170	170	2.9
11	11	45.5	43	43	11.6	180	180	2.8
12	12	41.5	47	47	10.6	190	190	2.6
13	13	38.5	51	51	9.8	200	200	2.5
14	14	35.7	56	56	9.0			
15	15	33.4	62	62	8.1			

5 W Series, T-18 Silicon Zener Diodes
1N5333B — 1N5388B

(Value)	Regulator Voltage (Vz)	Test Current (Iz)	(Value)	Regulator Voltage (Vz)	Test Current (Iz)	(Value)	Regulator Voltage (Vz)	Test Current (Iz)
33	3.3	380	52	15	75	71	60	20
34	3.6	350	53	16	75	72	62	20
35	3.9	320	54	17	70	73	68	20
36	4.3	290	55	18	65	74	75	20
37	4.7	260	56	19	65	75	82	15
38	5.1	240	57	20	65	76	87	15
39	5.6	220	58	22	50	77	91	15
40	6.0	200	59	24	50	78	100	12
41	6.2	200	60	25	50	79	110	12
42	6.8	175	61	27	50	80	120	10
43	7.5	175	62	28	50	81	130	10
44	8.2	150	63	30	40	82	140	8.0
45	8.7	150	64	33	40	83	150	8.0
46	9.1	150	65	36	30	84	160	8.0
47	10	125	66	39	30	85	170	8.0
48	11	125	67	43	30	86	180	5.0
49	12	100	68	47	25	87	190	5.0
50	13	100	69	51	25	88	200	5.0
51	14	100	70	56	20			

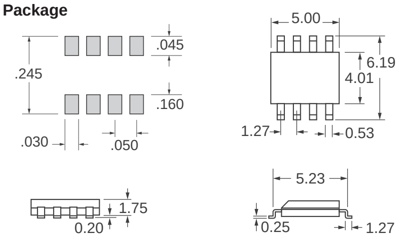
Fig.	DC Power Dissipation	Voltage Range (Code) See Chart	Digi-Key Part No.*	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.*	Tape & Reel Pricing 3,000	4,000	6,000	8,000	10,000	12,000	24,000	30,000	Microsemi Part No.*
1	500 mW	2.4V — 200V	1N52(Value)BMSCT-ND	1.20	8.40	60.00	1N52(Value)BMSTR-ND	—	—	—	—	210.00/M	—	—	180.00/M	1N52(Value)B
2	1 W	3.3V — 100V	1N47(Value)AMSCT-ND	.25	1.65	13.20	1N47(Value)AMSTR-ND	—	74.00/M	—	59.00/M	—	—	51.00/M	—	1N47(Value)A
2	2 W	3.6V — 200V	2EZ(Value)D5MSCT-ND	.75	5.00	40.00	2EZ(Value)D5MSTR-ND	—	225.00/M	—	180.00/M	—	—	155.00/M	—	2EZ(Value)D5
3	5 W	3.3V — 200V	1N53(Value)BMSCT-ND	1.20	8.00	64.00	1N53(Value)BMSTR-ND	400.00/M	—	320.00/M	—	—	280.00/M	248.00/M	—	1N53(Value)B

⁎ For complete part number, substitute corresponding value from chart for (Value).

Microsemi

Transient Voltage Suppressor Arrays

SO-8 Package



SO-16 Package

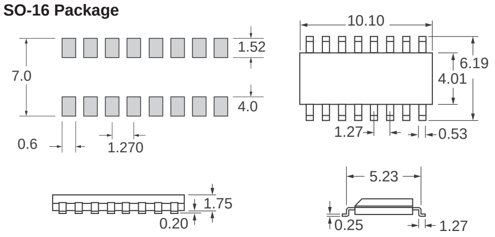
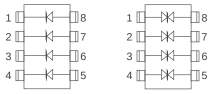


Fig.	Stand-off Voltage Vwm (V) Max.	Breakdown Voltage V_{BR} @ V_{BR} = 1mA (V) Min.	Clamping Voltage V_C @ 1 Amp (V) Max.	Leakage Current I_D @ V_{WM} (µAmps) Max.	Capacitance (f-1 MHz) @ 0 V C (pf) Typ.	Temp. Coefficient of V_{BR} αV_{BR} mV/°C Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing‡ 2,500	Microsemi Part No.
SMDA Unidirectional and SMDAxxC Bidirectional Series — 300 Watt												
1	3.3	4	6.5	125	800	-3	SMDA03MSCT-ND	3.84	3.46	2.88	—	SMDA03
	5.0	6.0	9.8	100	600	3	SMDA05MSCT-ND	3.84	3.46	2.88	3192.00	SMDA05
	12.0	13.3	19.0	1	185	10	SMDA12MSCT-ND	3.84	3.46	2.88	—	SMDA12
	15.0	16.7	24.0	1	140	13	SMDA15MSCT-ND	3.84	3.46	2.88	3192.00	SMDA15
	24.0	26.7	43.0	1	90	30	SMDA24MSCT-ND	3.84	3.46	2.88	—	SMDA24
1	3.3	4.5	7.0	200	400	-5	SMDA03CMSCT-ND	4.20	3.78	3.15	—	SMDA03C
	5.0	6.0	9.8	100	300	1	SMDA05CMSCT-ND	4.20	3.78	3.15	3491.25	SMDA05C
	12.0	13.3	19.0	1	95	8	SMDA12CMSCT-ND	4.20	3.78	3.15	—	SMDA12C
	15.0	16.7	24.0	1	70	11	SMDA15CMSCT-ND	4.20	3.78	3.15	3491.25	SMDA15C
	24.0	26.7	43.0	1	45	28	SMDA24CMSCT-ND	4.20	3.78	3.15	—	SMDA24C
SMDB Unidirectional and SMDBxxC Bidirectional Series — 500 Watt												
1	3.3	4	6.5	125	800	-3	SMDB03MSCT-ND	4.32	3.89	3.24	—	SMDB03
	5.0	6.0	9.8	200	600	3	SMDB05MSCT-ND	4.32	3.89	3.24	—	SMDB05
	12.0	13.3	17.5	1	185	10	SMDB12MSCT-ND	4.32	3.89	3.24	—	SMDB12
	15.0	16.7	24.0	2	140	13	SMDB15MSCT-ND	4.32	3.89	3.24	—	SMDB15
	24.0	26.7	43.0	2	90	30	SMDB24MSCT-ND	4.32	3.89	3.24	—	SMDB24
1	3.3	4.5	7.0	200	400	-5	SMDB03CMSCT-ND	4.80	4.32	3.60	—	SMDB03C
	5.0	6.0	9.8	200	300	1	SMDB05CMSCT-ND	4.80	4.32	3.60	—	SMDB05C
	12.0	13.3	17.5	1	95	8	SMDB12CMSCT-ND	4.80	4.32	3.60	3990.00	SMDB12C
	15.0	16.7	24.0	2	70	11	SMDB15CMSCT-ND	4.80	4.32	3.60	—	SMDB15C
	24.0	26.7	43.0	2	45	28	SMDB24CMSCT-ND	4.80	4.32	3.60	—	SMDB24C
SMDAxxC-5 Series, Bidirectional — 300 Watt												
2	3.3	4	6.5	200	300	-5	SMDA03C-5MSCT-ND	4.24	3.82	3.18	—	SMDA03C-5
	5.0	6.0	9.8	100	200	3	SMDA05C-5MSCT-ND	4.24	3.82	3.18	—	SMDA05C-5
	12	13.3	19	1	75	10	SMDA12C-5MSCT-ND	4.24	3.82	3.18	—	SMDA12C-5
	15	16.7	24	1	50	13	SMDA15C-5MSCT-ND	4.24	3.82	3.18	—	SMDA15C-5
	24	26.7	43	1	35	30	SMDA24C-5MSCT-ND	4.24	3.82	3.18	—	SMDA24C-5
SMDAxx-6 Series, Unidirectional — 300 Watt												
3	3.3	4	6.5	200	800	-3	SMDA03-6MSCT-ND	4.24	3.82	3.18	3524.50	SMDA03-6
	5.0	6.0	9.8	100	550	3	SMDA05-6MSCT-ND	4.24	3.82	3.18	3524.50	SMDA05-6
	12	13.3	19	1	185	10	SMDA12-6MSCT-ND	4.24	3.82	3.18	—	SMDA12-6
	15	16.7	24	1	140	13	SMDA15-6MSCT-ND	4.24	3.82	3.18	—	SMDA15-6
	24	26.7	43	1	88	30	SMDA24-6MSCT-ND	4.24	3.82	3.18	—	SMDA24-6
SMDAxxC-7 Series, Bidirectional — 300 Watt												
4	3.3	4.5	7.0	200	300	-5	SMDA03C-7MSCT-ND	4.32	3.89	3.24	—	SMDA03C-7
	5.0	6.0	9.8	100	200	1	SMDA05C-7MSCT-ND	4.32	3.89	3.24	—	SMDA05C-7
	12	13.3	19	1	75	8	SMDA12C-7MSCT-ND	4.32	3.89	3.24	3591.00	SMDA12C-7
	15	16.7	24	1	70	11	SMDA15C-7MSCT-ND	4.32	3.89	3.24	—	SMDA15C-7
	24	26.7	43	1	35	28	SMDA24C-7MSCT-ND	4.32	3.89	3.24	—	SMDA24C-7
SM8LCxx Series, Bidirectional — 500 Watt												
5	3.3	4	6.5	200	25	-3	SM8LC03MSCT-ND	4.32	3.89	3.24	3591.00	SM8LC03
	5.0	6.0	9.8	125	25	3	SM8LC05MSCT-ND	4.32	3.89	3.24	3591.00	SM8LC05
	12	13.3	17.5	1	25	10	SM8LC12MSCT-ND	4.32	3.89	3.24	—	SM8LC12
	15	16.7	24	2	25	13	SM8LC15MSCT-ND	4.32	3.89	3.24	—	SM8LC15
	24	26.7	43	2	25	30	SM8LC24MSCT-ND	4.32	3.89	3.24	—	SM8LC24
USB08xxC Series, Bidirectional — 500 Watt												
6	3.3	4	6.5	200	5	-5	USB50803CMSCT-ND	5.16	4.65	3.87	—	USB50803C
	12	13.3	17.9	1	5	10	USB50812CMSCT-ND	5.16	4.65	3.87	—	USB50812C
	15	16.7	25.5	1	5	13	USB50815CMSCT-ND	5.16	4.65	3.87	—	USB50815C
	24	26.7	47.5	1	5	30	USB50824CMSCT-ND	5.16	4.65	3.87	—	USB50824C
SM16 Unidirectional and SM16xxC Bidirectional Series — 300 Watt												
7	3.3	4	6.5	125	850	-3	SM1603MSCT-ND	5.40	4.86	4.05	—	SM1603
	5.0	6.0	9.8	200	880	3	SM1605MSCT-ND	5.40	4.86	4.05	—	SM1605
	12	13.3	17.5	1	440	10	SM1612MSCT-ND	5.40	4.86	4.05	—	SM1612
	15	16.7	24	1	400	13	SM1615MSCT-ND	5.40	4.86	4.05	—	SM1615
	24	26.7	43	2	275	30	SM1624MSCT-ND	5.40	4.86	4.05	—	SM1624
7	3.3	4	7.0	200	425	-5	SM1603CMSCT-ND	6.00	5.40	4.50	—	SM1603C
	5.0	6.0	9.8	200	440	1	SM1605CMSCT-ND	6.00	5.40	4.50	—	SM1605C
	12	13.3	17.5	1	220	8	SM1612CMSCT-ND	6.00	5.40	4.50	—	SM1612C
	15	16.7	24	2	200	11	SM1615CMSCT-ND	6.00	5.40	4.50	—	SM1615C
	24	26.7	43	2	137	28	SM1624CMSCT-ND	6.00	5.40	4.50	—	SM1624C
SM16LCxx Unidirectional and SM16LCxxC Bidirectional Series — 300 Watt												
8	3.3	4	7	400	25	-3	SM16LC03MSCT-ND	6.60	5.94	4.95	—	SM16LC03
	5.0	6.0	9.8	100	25	1	SM16LC05MSCT-ND	6.60	5.94	4.95	—	SM16LC05
	12	13.3	19.5	2	25	8	SM16LC12MSCT-ND	6.60	5.94	4.95	—	SM16LC12
	15	16.7	24	2	25	11	SM16LC15MSCT-ND	6.60	5.94	4.95	—	SM16LC15
	24	26.7	43	2	25	28	SM16LC24MSCT-ND	6.60	5.94	4.95	—	SM16LC24
9	3.3	4	7	400	25	-3	SM16LC03CMSCT-ND	7.68	6.92	5.76	—	SM16LC03C
	5.0	6.0	9.8	100	25	1	SM16LC05CMSCT-ND	7.68	6.92	5.76	—	SM16LC05C
	12	13.3	19.5	2	25	8	SM16LC12CMSCT-ND	7.68	6.92	5.76	6384.00	SM16LC12C
	15	16.7	24	2	25	11	SM16LC15CMSCT-ND	7.68	6.92	5.76	—	SM16LC15C
	24	26.7	43	2	25	28	SM16LC24CMSCT-ND	7.68	6.92	5.76	—	SM16LC24C

‡ For Tape & Reel Part No. change CT to TR.

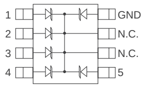
Fig. 1



Unidirectional Bidirectional

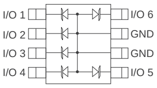
Features: • Protects 3.0/3.3 up through 24V Components • Protects 4 lines Unidirectional or Bidirectional • Provides electrically isolated protection • SO-8 packaging

Fig. 2



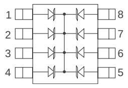
Features: • Protects up to 5 Bidirectional lines • Surge protection Per IEC 1000-4-2, 1000-4-4 • SO-8 packaging

Fig. 3



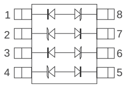
Features: • Protects up to 6 Unidirectional lines • Surge protection Per IEC 1000-4-2, 1000-4-4 • SO-8 packaging

Fig. 4



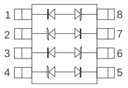
Features: • Protects up to 7 Bidirectional lines • Surge protection Per IEC 1000-4-2, 1000-4-4 • SO-8 packaging

Fig. 5



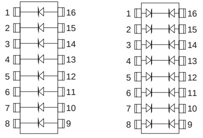
Features: • Protects up to 2 Bidirectional lines • Surge protection Per IEC 1000-4-2, 1000-4-4 • Provides electrically isolated protection • SO-8 packaging • Low capacitance of 25 pF per line pair

Fig. 6



Features: • Protects up to 2 Bidirectional lines • Surge protection Per IEC 1000-4-2, 1000-4-4 • Provides electrically isolated protection • SO-8 packaging • Ultra Low capacitance of 5 pF per line pair • Ultra Low leakage

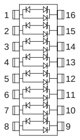
Fig. 7



Unidirectional Bidirectional

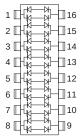
Features: • Protects 3.0/3.3 up through 24V Components • Protects 8 lines Unidirectional or Bidirectional • Provides electrically isolated protection • SO-16 packaging

Fig. 8



Features:
- Protects 3.0/3.3 up through 24V Components
- Protects 8 lines Unidirectional
- Provides electrically isolated protection
- SO-16 packaging

Fig. 9



Features:
- Protects 3.0/3.3 up through 24V Components
- Protects 8 lines Bidirectional
- Provides electrically isolated protection
- SO-16 packaging

•M•C•C• Micro Commercial Components Rectifiers

Electrical Characteristics @ 25°C unless otherwise specified.

Series	DO-41	MELF	DO-214AA	DO-214AB	R-6
Average Forward Current, $I_{F(AV)}$	1.0A T_A = 75°C	1.0A T_A = 75°C	2.0A T_J = 75°C	3.0A T_J = 120°C	6.0A T_A = 60°C
Peak Forward Surge Current, I_{FSM}	30A 8.3ms, half sine	30A 8.3 ms, half sine	70A 8.3ms, half sine, T_J = 150°C	100A 8.3ms, half sine	400A 8.3ms, half sine
Maximum Forward Voltage, V_F	1.1V I_{FM} = 1.0A; T_J = 25°C*	1.1V I_{FM} = 1.0A; T_J = 25°C*	1.15V I_{FM} = 1.0A; T_J = 25°C*	1.20V I_{FM} = 3.0A; T_J = 25°C†	0.95V I_{FM} = 6.0A; T_J = 25°C‡
Maximum Reverse Recovery Time, Trr	—	—	2.0µs I_F=0.5A, I_R=1.0A, 1rr=0.25A	2.5µs I_J=0.5A, I_R=1.0A, 1rr=0.25A	—

* Pulse Test: Pulse width 300 µsec, Duty cycle 2% † Pulse Test: Pulse width 200 µsec, Duty cycle 2% ‡ Pulse Test: Pulse width 300 µsec, Duty cycle 1%

Fig.	Max. Peak Reverse Voltage	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 500	1,000	3,000	5,000	10,000	12,000	MCC Part No.
DO-41 — 1 Amp Rectifier														
1	50V	1N4001MSCT-ND	—	.43	3.40	25.50	1N4001MSTR-ND	—	—	—	17.00/M	15.00/M	—	1N4001
	100V	1N4002MSCT-ND	—	.43	3.40	25.50	1N4002MSTR-ND	—	—	—	17.00/M	15.00/M	—	1N4002
	200V	1N4003MSCT-ND	—	.43	3.40	25.50	1N4003MSTR-ND	—	—	—	17.00/M	15.00/M	—	1N4003
	400V	1N4004MSCT-ND	—	.43	3.40	25.50	1N4004MSTR-ND	—	—	—	17.00/M	15.00/M	—	1N4004
	600V	1N4005MSCT-ND	—	.43	3.40	25.50	1N4005MSTR-ND	—	—	—	17.00/M	15.00/M	—	1N4005
	800V	1N4006MSCT-ND	—	.43	3.40	25.50	1N4006MSTR-ND	—	—	—	17.00/M	15.00/M	—	1N4006
	1000V	1N4007MSCT-ND	—	.43	3.40	25.50	1N4007MSTR-ND	—	—	—	17.00/M	15.00/M	—	1N4007
MELF — 1 Amp Glass Passivated Rectifier — SMT														
2	50V	DL4001MSCT-ND	—	1.95	16.58	136.50	DL4001MSTR-ND	—	—	—	78.00/M	59.00/M	—	DL4001
	100V	DL4002MSCT-ND	—	1.95	16.58	136.50	DL4002MSTR-ND	—	—	—	78.00/M	59.00/M	—	DL4002
	200V	DL4003MSCT-ND	—	1.95	16.58	136.50	DL4003MSTR-ND	—	—	—	78.00/M	59.00/M	—	DL4003
	400V	DL4004MSCT-ND	—	1.95	16.58	136.50	DL4004MSTR-ND	—	—	—	78.00/M	59.00/M	—	DL4004
	600V	DL4005MSCT-ND	—	2.10	17.85	147.00	DL4005MSTR-ND	—	—	—	84.00/M	63.00/M	—	DL4005
	800V	DL4006MSCT-ND	—	2.25	19.13	157.50	DL4006MSTR-ND	—	—	—	90.00/M	68.00/M	—	DL4006
	1000V	DL4007MSCT-ND	—	2.45	20.83	171.50	DL4007MSTR-ND	—	—	—	98.00/M	74.00/M	—	DL4007
DO-214AA — 2 Amp Silicon Rectifier — SMT														
3	50V	S2AMSCT-ND	—	2.50	20.00	150.00	S2AMSTR-ND	—	—	100.00/M	—	—	88.00/M	S2A
	100V	S2BMSCT-ND	—	2.50	20.00	150.00	S2BMSTR-ND	—	—	100.00/M	—	—	88.00/M	S2B
	200V	S2DMSCT-ND	—	2.50	20.00	150.00	S2DMSTR-ND	—	—	100.00/M	—	—	88.00/M	S2D
	400V	S2GMSCT-ND	—	2.50	20.00	150.00	S2GMSTR-ND	—	—	100.00/M	—	—	88.00/M	S2G
	600V	S2JMSCT-ND	—	3.00	24.00	180.00	S2JMSTR-ND	—	—	120.00/M	—	—	105.00/M	S2J
	800V	S2KMSCT-ND	—	3.00	24.00	180.00	S2KMSTR-ND	—	—	120.00/M	—	—	105.00/M	S2K
	1000V	S2MMSCT-ND	—	3.00	24.00	180.00	S2MMSTR-ND	—	—	120.00/M	—	—	105.00/M	S2M
DO-214AB — 3 Amp Silicon Rectifier — SMT														
4	50V	S3AMSCT-ND	—	7.00	56.00	420.00	S3AMSTR-ND	—	—	280.00/M	—	—	245.00/M	S3A
	100V	S3BMSCT-ND	—	7.00	56.00	420.00	S3BMSTR-ND	—	—	280.00/M	—	—	245.00/M	S3B
	200V	S3DMSCT-ND	—	7.00	56.00	420.00	S3DMSTR-ND	—	—	280.00/M	—	—	245.00/M	S3D
	400V	S3GMSCT-ND	—	7.00	56.00	420.00	S3GMSTR-ND	—	—	280.00/M	—	—	245.00/M	S3G
	600V	S3JMSCT-ND	—	9.00	72.00	540.00	S3JMSTR-ND	—	—	360.00/M	—	—	315.00/M	S3J
	800V	S3KMSCT-ND	—	9.00	72.00	540.00	S3KMSTR-ND	—	—	360.00/M	—	—	315.00/M	S3K
	1000V	S3MMSCT-ND	—	9.00	72.00	540.00	S3MMSTR-ND	—	—	360.00/M	—	—	315.00/M	S3M
R-6 — 6 Amp Rectifier														
5	50V	6A05MSCT-ND	.71	5.23	38.00	—	6A05MSTR-ND	142.50	238.00	—	190.00/M	166.00/M	—	6A05
	100V	6A1MSCT-ND	.71	5.23	38.00	—	6A1MSTR-ND	142.50	238.00	—	190.00/M	166.00/M	—	6A1
	200V	6A2MSCT-ND	.71	5.23	38.00	—	6A2MSTR-ND	142.50	238.00	—	190.00/M	166.00/M	—	6A2
	400V	6A4MSCT-ND	.71	5.23	38.00	—	6A4MSTR-ND	142.50	238.00	—	190.00/M	166.00/M	—	6A4
	600V	6A6MSCT-ND	.71	5.23	38.00	—	6A6MSTR-ND	142.50	238.00	—	190.00/M	166.00/M	—	6A6
	800V	6A8MSCT-ND	.71	5.23	38.00	—	6A8MSTR-ND	142.50	238.00	—	190.00/M	166.00/M	—	6A8
	1000V	6A10MSCT-ND	.71	5.23	38.00	—	6A10MSTR-ND	142.50	238.00	—	190.00/M	166.00/M	—	6A10

Fig. 1, DO-41
1 Amp

DIMENSIONS (mm) Dim.	Min.	Max.
A	4.22	5.21
B	2.03	2.72
C	.71	.86
D	25.40	—

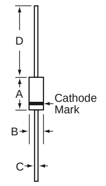


Fig. 2, MELF, SMT
1 Amp

DIMENSIONS (mm) Dim.	Min.	Max.
A	4.83	5.21
B	—	.56
C	2.41	2.51

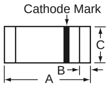


Fig. 3, DO-214AA, SMT
2 Amp

DIMENSIONS (mm) Dim.	Min.	Max.
A	1.91	2.92
B	2.06	2.21
C	.10	.20
D	—	.51
E	.76	1.52
F	1.65	2.13
G	5.21	5.59
H	4.06	4.57
J	3.30	3.94

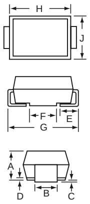


Fig. 4, DO-214AB, SMT
3 Amp

DIMENSIONS (mm) Dim.	Min.	Max.
A	1.91	2.41
B	2.92	3.07
C	.10	.20
D	—	.51
E	.76	1.52
G	7.75	8.13
H	6.60	7.11
J	5.59	6.22

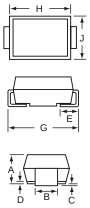
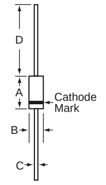


Fig. 5, R-6
6 Amp

DIMENSIONS (mm) Dim.	Min.	Max.
A	8.64	9.14
B	8.64	9.14
C	1.22	1.32
D	25.40	—



•M•C•C• Micro Commercial Components Surface Mount Schottky Rectifiers

Electrical Characteristics @ 25°C unless otherwise specified.

Series	DO-214AA		DO-214AB	
Average Forward Current, $I_{F(AV)}$	1.0A	T_J = 90°C	3.0A	T_J = 120°C
Peak Forward Surge Current, I_{FSM}	50A	8.3ms, half sine	100A	8.3ms, half sine
Maximum Forward Voltage, V_F	SK12 .45V SK13 .55V SK14 .60V SK15-16 .72V SK18-110 .80V	I_{FM}=1.0A T_J=25°C*	SK32-34 .50V SK35-38 .75V	I_{FM}=3.0A T_J=25°C†

* Pulse Test: Pulse width 300 µsec, Duty cycle 2%
† Pulse Test: Pulse width 200 µsec, Duty cycle 2%

Fig. 1, DO-214AA, 1 Amp

DIMENSIONS (mm) Dim.	Min.	Max.
A	1.91	2.92
B	2.06	2.21
C	.10	.20
D	—	.51
E	.76	1.52
F	1.65	2.13
G	5.21	5.59
H	4.06	4.57
J	3.30	3.94

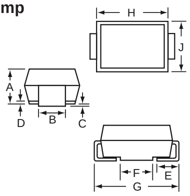


Fig. 2, DO-214AB, 3 Amp

DIMENSIONS (mm) Dim.	Min.	Max.
A	1.91	2.41
B	2.92	3.07
C	.10	.20
D	—	.51
E	.76	1.52
G	7.75	8.13
H	6.60	7.11
J	5.59	6.22

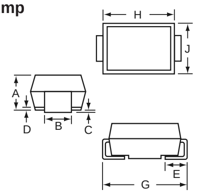


Fig.	Max. Peak Reverse Voltage	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 3,000	6,000	12,000	24,000	MCC Part No.
DO-214AA 1 Amp Schottky Rectifier — SMT												
1	20V	SMB5817MSCT-ND	.42	3.78	31.50	131.25	SMB5817MSTR-ND	174.00/M	158.00/M	147.00/M	131.00/M	SMB5817 (SK12)
	30V	SMB5818MSCT-ND	.42	3.78	31.50	131.25	SMB5818MSTR-ND	174.00/M	158.00/M	147.00/M	131.00/M	SMB5818 (SK13)
	40V	SMB5819MSCT-ND	.42	3.78	31.50	131.25	SMB5819MSTR-ND	174.00/M	158.00/M	147.00/M	131.00/M	SMB5819 (SK14)
	50V	SMBSR105MSCT-ND	.56	5.04	42.00	175.00	SMBSR105MSTR-ND	232.00/M	210.00/M	196.00/M	175.00/M	SMBSR105 (SK15)
	60V	SMBSR106MSCT-ND	.56	5.04	42.00	175.00	SMBSR106MSTR-ND	232.00/M	210.00/M	196.00/M	175.00/M	SMBSR106 (SK16)
	80V	SMBSR108MSCT-ND	.56	5.04	42.00	175.00	SMBSR108MSTR-ND	232.00/M	210.00/M	196.00/M	175.00/M	SMBSR108 (SK18)
	100V	SMBSR1010MSCT-ND	.64	5.76	48.00	200.00	SMBSR1010MSTR-ND	266.00/M	240.00/M	224.00/M	200.00/M	SMBSR1010 (SK110)
DO-214AB 3 Amp Schottky Rectifier — SMT												
2	20V	SK32MSCT-ND	1.04	9.36	78.00	325.00	SK32MSTR-ND	455.00/M	384.00/M	346.00/M	332.00/M	SK32
	30V	SK33MSCT-ND	1.04	9.36	78.00	325.00	SK33MSTR-ND	455.00/M	384.00/M	346.00/M	332.00/M	SK33
	40V	SK34MSCT-ND	1.04	9.36	78.00	325.00	SK34MSTR-ND	455.00/M	384.00/M	346.00/M	332.00/M	SK34
	50V	SK35MSCT-ND	1.04	9.36	78.00	325.00	SK35MSTR-ND	455.00/M	384.00/M	346.00/M	332.00/M	SK35
	60V	SK36MSCT-ND	1.04	9.36	78.00	325.00	SK36MSTR-ND	455.00/M	384.00/M	346.00/M	332.00/M	SK36
	80V	SK38MSCT-ND	1.04	9.36	78.00	325.00	SK38MSTR-ND	455.00/M	384.00/M	346.00/M	332.00/M	SK38

•M•C•C• Micro Commercial Components Single Phase Bridge Rectifiers

Fig. 1, RB-15
1.5 Amp

DIMENSIONS (mm)		
Dim.	Min.	Max.
A	—	9.10
B	—	4.00
C	25.40	—
D	27.90	—
E	4.60	5.60
F	0.76	0.81

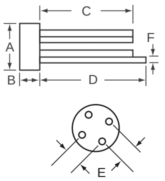


Fig. 2, RS-4L
4 Amp

DIMENSIONS (mm)		
Dim.	Min.	Max.
A	18.50	19.50
B	15.20	16.30
C	19.00	—
D	6.00	6.50
E	4.60	5.60
G	—	2.10
H	1.20	1.30

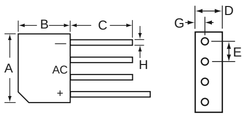


Fig. 3, DB-1 — 1 Amp

DIMENSIONS (mm)		
Dim.	Min.	Max.
A	9.02	9.27
B	6.22	6.48
C	7.62	8.89
D	3.94	4.19
E	2.92	3.43
F	—	1.52
G	—	.51
H	4.95	5.21

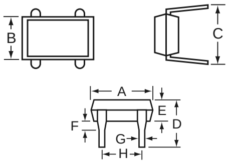


Fig. 4, BR-6
8 Amp

DIMENSIONS (mm)		
Dim.	Min.	Max.
A	—	15.50
B	—	6.33
C	—	25.40
D	10.41	12.70
E	1.00	—
G	3.70	—

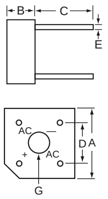


Fig. 5, PB-6
6 Amp, 10 Amp

DIMENSIONS (mm)		
Dim.	Min.	Max.
A	—	15.50
B	—	6.33
C	—	19.20
D	10.30	11.30
E	1.00	—
G	3.70	—

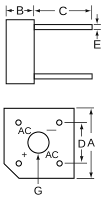


Fig. 6, MB-35W
15 Amp, 25 Amp, 35 Amp

DIMENSIONS (mm)		
Dim.	Min.	Max.
A	28.33	28.83
B	10.85	11.35
C	19.65	—
D	17.10	19.10
E	.96	1.07
G	4.90	—
H	10.90	11.90

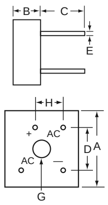
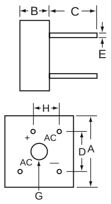


Fig. 7, MP-50W
50 Amp

DIMENSIONS (mm)		
Dim.	Min.	Max.
A	28.33	28.83
B	10.85	11.35
C	19.65	—
D	17.10	19.10
E	.96	1.07
G	4.90	—
H	10.90	11.90



Electrical Characteristics @ 25°C unless otherwise specified

Series	RB-15 RB151–RB157	RS-4L RS401L–RS407L	DB-1 DB101–DB107	BR-6 MB805–MB810	PB-6 PB605–PB610	PB-6 MB1005–MB1010	MB-35W MB1505W–MB1510W	MB-35W MB2505W–MB2510W	MB-35W MB3505W–MB3510W	MP-50W MP5005W–MP5010W
Average Forward Current, $I_{F(AV)}$	1.5A T_J = 25°C	4.0A T_J = 50°C	1A T_A = 40°C	8.0A T_C = 50°C	6.0A T_J = 50°C	10.0A T_J = 75°C	15.0A T_J = 55°C	25.0A T_J = 55°C	35.0A T_J = 55°C	50.0A T_J = 55°C
Peak Forward Surge Current, I_{FSM}	50A 8.3ms, half sine	200A 8.3 ms, half sine	50A 8.3ms, half sine	125A 8.3ms, half sine	125A 8.3ms, half sine	150A 8.3ms, half sine	300A 8.3ms, half sine	300A 8.3ms, half sine	300A 8.3ms, half sine	400A 8.3ms, half sine
Maximum Forward Voltage Drop Per Element, V_F	1.0V I_{FM}=1.5A, T_J=25°C*	1.0V I_{FM}=4.0A, T_J=25°C*	1.1V I_{FM}=1.0A, T_A=25°C	1.0V I_{FM}=4.0A, T_A=25°C*	1.1V I_{FM}=3.0A, T_J=25°C*	1.1V I_{FM}=5.0A, T_J=25°C*	1.1V I_{FM}=7.5A, T_J=25°C*	1.1V I_{FM}=12.5A, T_J=25°C*	1.1V I_{FM}=17.5A, T_J=25°C*	1.2V I_{FM}=20A, T_J=25°C*

* Pulse Test: Pulse width 300 µsec, Duty cycle 1%

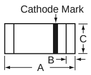
Fig.	Max. Peak Reverse Voltage	Digi-Key Part No.	Price Each					MCC Part No.
			1	10	100	500	1,000	
RB-15 — 1.5 Amp Single Phase Bridge Rectifier								
1	50V	RB151MS-ND	.52	.46	.39	.33	.26	RB151
	100V	RB152MS-ND	.52	.46	.39	.33	.26	RB152
	200V	RB153MS-ND	.56	.49	.42	.35	.28	RB153
	400V	RB154MS-ND	.60	.53	.45	.38	.30	RB154
	600V	RB155MS-ND	.60	.53	.45	.38	.30	RB155
	800V	RB156MS-ND	.64	.56	.48	.40	.32	RB156
	1000V	RB157MS-ND	.76	.67	.57	.48	.38	RB157
RS-4L — 4 Amp Single Phase Bridge Rectifier								
2	50V	RS401LMS-ND	1.56	1.37	1.17	.98	.78	RS401L
	100V	RS402LMS-ND	1.56	1.37	1.17	.98	.78	RS402L
	200V	RS403LMS-ND	1.56	1.37	1.17	.98	.78	RS403L
	400V	RS404LMS-ND	1.60	1.40	1.20	1.00	.80	RS404L
	600V	RS405LMS-ND	1.76	1.54	1.32	1.10	.88	RS405L
	800V	RS406LMS-ND	1.92	1.68	1.44	1.20	.96	RS406L
	1000V	RS407LMS-ND	2.00	1.75	1.50	1.25	1.00	RS407L
DB-1 — 1 Amp Single Phase Glass Passivated Bridge Rectifier								
3	50V	DB101MS-ND	.52	.50	.39	.33	.26	DB101
	100V	DB102MS-ND	.52	.50	.39	.33	.26	DB102
	200V	DB103MS-ND	.56	.54	.42	.35	.28	DB103
	400V	DB104MS-ND	.60	.58	.45	.38	.30	DB104
	600V	DB105MS-ND	.64	.62	.48	.40	.32	DB105
	800V	DB106MS-ND	.72	.69	.54	.45	.36	DB106
	1000V	DB107MS-ND	.80	.77	.60	.50	.40	DB107
BR-6 — 8 Amp Single Phase Bridge Rectifier								
4	50V	MB805MS-ND	2.20	1.93	1.65	1.38	1.10	MB805
	100V	MB81MS-ND	2.20	1.93	1.65	1.38	1.10	MB81
	200V	MB82MS-ND	2.20	1.93	1.65	1.38	1.10	MB82
	400V	MB84MS-ND	2.20	1.93	1.65	1.38	1.10	MB84
	600V	MB86MS-ND	2.20	1.93	1.65	1.38	1.10	MB86
	800V	MB88MS-ND	2.20	1.93	1.65	1.38	1.10	MB88
	1000V	MB810MS-ND	2.20	1.93	1.65	1.38	1.10	MB810
PB-6 — 6 Amp Single Phase Bridge Rectifier								
5	50V	PB605MS-ND	1.68	1.47	1.26	1.05	.84	PB605
	100V	PB61MS-ND	1.68	1.47	1.26	1.05	.84	PB61
	200V	PB62MS-ND	1.76	1.54	1.32	1.10	.88	PB62
	400V	PB64MS-ND	1.76	1.54	1.32	1.10	.88	PB64
	600V	PB66MS-ND	1.84	1.61	1.38	1.15	.92	PB66
	800V	PB68MS-ND	1.92	1.68	1.44	1.20	.96	PB68
	1000V	PB610MS-ND	2.20	1.93	1.65	1.38	1.10	PB610

Fig.	Max. Peak Reverse Voltage	Digi-Key Part No.	Price Each					MCC Part No.
			1	10	100	500	1,000	
PB-6 — 10 Amp Single Phase Bridge Rectifier								
5	50V	MB1005MS-ND	2.20	1.93	1.65	1.38	1.10	MB1005
	100V	MB101MS-ND	2.20	1.93	1.65	1.38	1.10	MB101
	200V	MB102MS-ND	2.20	1.93	1.65	1.38	1.10	MB102
	400V	MB104MS-ND	2.40	2.10	1.80	1.50	1.20	MB104
	600V	MB106MS-ND	2.80	2.45	2.10	1.75	1.40	MB106
	800V	MB108MS-ND	2.80	2.45	2.10	1.75	1.40	MB108
	1000V	MB1010MS-ND	3.00	2.63	2.25	1.88	1.50	MB1010
MB-35W — 15 Amp Single Phase Bridge Rectifier								
6	50V	MB1505WMS-ND	4.00	3.50	3.00	2.50	2.00	MB1505W
	100V	MB151WMS-ND	4.40	3.85	3.30	2.75	2.20	MB151W
	200V	MB152WMS-ND	4.20	3.68	3.15	2.63	2.10	MB152W
	400V	MB154WMS-ND	4.40	3.85	3.30	2.75	2.20	MB154W
	600V	MB156WMS-ND	4.60	4.03	3.45	2.88	2.30	MB156W
	800V	MB158WMS-ND	4.60	4.03	3.45	2.88	2.30	MB158W
	1000V	MB1510WMS-ND	5.00	4.38	3.75	3.13	2.50	MB1510W
MB-35W — 25 Amp Single Phase Bridge Rectifier								
6	50V	MB2505WMS-ND	4.40	3.85	3.30	2.75	2.20	MB2505W
	100V	MB251WMS-ND	4.40	3.85	3.30	2.75	2.20	MB251W
	200V	MB252WMS-ND	4.60	4.03	3.45	2.88	2.30	MB252W
	400V	MB254WMS-ND	4.80	4.20	3.60	3.00	2.40	MB254W
	600V	MB256WMS-ND	4.80	4.20	3.60	3.00	2.40	MB256W
	800V	MB258WMS-ND	5.00	4.38	3.75	3.13	2.50	MB258W
	1000V	MB2510WMS-ND	5.20	4.55	3.90	3.25	2.60	MB2510W
MB-35W — 35 Amp Single Phase Bridge Rectifier								
6	50V	MB3505WMS-ND	4.80	4.20	3.60	3.00	2.40	MB3505W
	100V	MB351WMS-ND	4.80	4.20	3.60	3.00	2.40	MB351W
	200V	MB352WMS-ND	4.80	4.20	3.60	3.00	2.40	MB352W
	400V	MB354WMS-ND	5.00	4.38	3.75	3.13	2.50	MB354W
	600V	MB356WMS-ND	5.00	4.38	3.75	3.13	2.50	MB356W
	800V	MB358WMS-ND	5.20	4.55	3.90	3.25	2.60	MB358W
	1000V	MB3510WMS-ND	5.60	4.90	4.20	3.50	2.80	MB3510W
MP-50WW — 50 Amp Single Phase Bridge Rectifier								
7	50V	MP5005WMS-ND	6.40	5.60	4.80	4.00	3.20	MP5005W
	100V	MP501WMS-ND	6.40	5.60	4.80	4.00	3.20	MP501W
	200V	MP502WMS-ND	6.40	5.60	4.80	4.00	3.20	MP502W
	400V	MP504WMS-ND	6.40	5.60	4.80	4.00	3.20	MP504W
	600V	MP506WMS-ND	6.80	5.95	5.10	4.25	3.40	MP506W
	800V	MP508WMS-ND	6.80	5.95	5.10	4.25	3.40	MP508W
	1000V	MP5010WMS-ND	7.96	6.97	5.97	4.98	3.98	MP5010W

•M•C•C• Micro Commercial Components SW Rectifiers

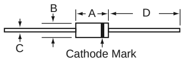
Max Reverse Voltage V_R: 75V
Power Dissipation P_{TOT}: 500mW
Average Rectified Current Io: 150 mA
Reverse Recovery Time T_{RR}: 4nS (I_F=10mA; V_R=6V; R_L=100Ω)

Fig. 1 MINIMELF SMT



DIMENSIONS (mm)		
Dim.	Min.	Max.
A	3.40	3.61
B	.20	.41
C	1.40	1.50

Fig. 2 DO-35

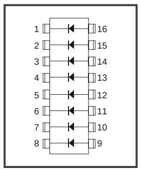


DIMENSIONS (mm)		
Dim.	Min.	Max.
A	—	4.22
B	—	2.01
C	—	.51
D	25.40	—

Fig.	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing			MCC Part No.
		10	100	1,000		2,500	5,000	10,000	
500mW Silicon Epitaxial Diode									
1	DL4148MSCT-ND	1.10	9.35	77.00	DL4148MSTR-ND	72.00/M	66.00/M	44.00/M	DL4148
2	1N4148MSCT-ND	.53	4.20	35.00	1N4148MSTR-ND	—	—	14.00/M	IN4148

Microsemi

Switching Diode Arrays



Features:
- 8 Isolated lines
- Standard SOIC 16 pin Surface Mount Package
- UL 94V-0 Flammability Classification

Vbr @ Ibr = 100µA (V) Min.	Ir +25°C (µA) Max.	(V) @ Vr	CAP @ 0 V (pF) Max.	trr (nS) Max.	Vf @ If = 100mA (V) Min.	Max.	Digi-Key Part No.	Pricing 1	10	100
100	.025 .100	20 50	4.0	5.0	—	1.20	S16-4148MSCT-ND	6.60	59.40	495.00
75	.500	75	2.5	4.0	0.82	0.92	S16-4150MSCT-ND	6.60	59.40	495.00

NEC RF and Microwave Products

Low Noise Bipolar Transistors

Fig.	Test f GHz	NF Typ dB	GA Typ dB	VCE V	S21E2 IC mA	Typ dB	fT Typ GHz	HFE Typ	IC Max mA	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	2.0	1.9	9.5	6	10	9	10.0	120	35	NE68019CT-ND	.66	5.50	25.67	NE68019TR-ND	367.00/M
2	2.0	1.7	9.5	6	10	8.5	10.0	100	35	NE68030CT-ND	.84	7.00	32.67	NE68030TR-ND	467.00/M
3	2.0	1.7	11	6	10	9	10.0	100	35	NE68039RCT-ND*	.90	7.50	35.00	NE68039RTR-ND	500.00/M
1	1.0	1.4	14	8	20	14	7.0	120	65	NE68119CT-ND	.60	5.00	23.33	NE68119TR-ND	333.00/M
2	1.0	1.5	13.5	8	20	13	7.0	120	65	NE68130CT-ND	.75	6.25	29.17	NE68130TR-ND	417.00/M
3	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139CT-ND	.75	6.25	29.17	NE68139TR-ND	417.00/M
3	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139RCT-ND*	.75	6.25	29.17	NE68139RTR-ND	417.00/M
1	2.0	1.5	7.5	3	10	9	12.0	110	30	NE68519CT-ND	.66	5.50	25.67	NE68519TR-ND	367.00/M
2	2.0	1.5	7	3	10	8.5	12.0	110	30	NE68530CT-ND	.81	6.75	31.50	NE68530TR-ND	450.00/M
1	2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68719CT-ND	.75	6.25	29.17	NE68719TR-ND	417.00/M
2	2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68730CT-ND	1.05	8.75	40.83	NE68730TR-ND	583.00/M
1	2.0	1.5	8	3	20	8	9.5	120	100	NE68819CT-ND	.60	5.00	23.33	NE68819TR-ND	333.00/M
4	2.0	1.6	9	3	10	14	14.0	120	30	NE696M01CT-ND	.87	7.25	33.83	NE696M01TR-ND	483.00/M
1	1.0	1.4	12.5	3	7	9	4.5	120	100	NE85619CT-ND	.54	4.50	21.00	NE85619TR-ND	300.00/M
2	1.0	1.3	12	10	20	12	4.5	110	100	NE85630CT-ND	.66	5.50	25.67	NE85630TR-ND	367.00/M
5	1.0	1.4	9	10	20	11.5	7.0	120	100	NE85633CT-ND	.66	5.50	25.67	NE85633TR-ND	367.00/M
3	1.0	1.5	13.5	10	20	13	7.0	120	100	NE85639RCT-ND*	.66	5.50	25.67	NE85639RTR-ND	367.00/M
Dual Package															
4	2.0	1.9	—	3	5	7.5	8.0	120	35	UPA800TCT-ND	1.17	9.75	45.50	UPA800TTR-ND	650.00/M
	2.0	1.5	—	3	10	8.5	12.0	100	30	UPA806TCT-ND	1.17	9.75	45.50	UPA806TTR-ND	650.00/M
	1.0	1.2	—	3	7	9	4.5	120	100	UPA810TCT-ND	.99	8.25	38.50	UPA810TTR-ND	550.00/M
	2.0	1.5	—	3	7	5	9.0	120	100	UPA814TCT-ND	1.17	9.75	45.50	UPA814TTR-ND	650.00/M

* Reverse Pinout (see Fig.)

Medium Power Bipolar Transistors

Fig.	Test f GHz	P1dB VCE V	IC mA	Pin dBM	Typ dBM	ifT Typ GHz	HFE Typ	IC Max mA	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000
6	1.0	12.5	100	20.5	27.5	5.5	100	250	NE46134CT-ND	1.68	14.00	65.33	NE46134TR-ND	933.00
	1.0	10	40	13	22	6.5	120	100	NE85634CT-ND	.90	7.50	35.00	NE85634TR-ND	500.00

Bipolar Oscillator Transistors

Fig.	Posc f GHz	VCE V	IC mA	Typ W	fT Typ GHz	HFE Typ	IC Max mA	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000
2	2.5	2.5	0.4	0.001	2	100	50	NE94430CT-ND	.36	3.00	14.00	—	—
5	2.5	2.5	0.4	0.001	2	100	50	NE94433CT-ND	.36	3.00	14.00	NE94433TR-ND	200.00/M

General Purpose GaAs FETs

Fig.	Gate Length um	Gate Width um	Frequency Range GHHz	Test f GHz	NF/GA Bias VDS V	IDS mA	NF dB	GA dB	P1dB dBm	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000
3	1	400	0.1-6	0.9	5	10	1.1	20	12	NE25139CT-ND	1.50	12.50	58.33	NE25139TR-ND	833.00/M
7	0.6	400	0.1-6	2.0	2	5	0.6	16	16	NE34018CT-ND	1.65	13.75	64.17	NE34018TR-ND	848.00/M

Silicon MMIC Wideband Amplifiers

Fig.	f Typ @ 3dB down MHz	Vcc V	Icc Typ mA	NF Typ dB	Gain Typ dB	RLin Typ dB	RLout Typ dB	P1dB Typ dBm	ISOL Typ dB	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	3,000
8	1900	5	49	6.0	23	14	4	+15.9	35	UPC1678GVCT-ND	2.65	23.85	112.63	UPC1678GVTR-ND	1634.00	—
4	2900	5	12	5.0	13	25	12	-2.6	30	UPC2711TBCT-ND	1.41	11.75	54.83	UPC2711TBTR-ND	—	783.00/M
	2600	5	12	4.5	20	12	13	-0.4	33	UPC2712TBCT-ND	1.41	11.75	54.83	UPC2712TBTR-ND	—	667.00/M
	2700	3	7.5	6.0	12	11	5.5	-3.0	33	UPC2745TBCT-ND	1.38	11.50	53.67	UPC2745TBTR-ND	—	767.00/M
	1500	3	7.5	4.0	19	13	8.5	-3.7	45	UPC2746TBCT-ND	1.38	11.50	53.67	UPC2746TBTR-ND	—	767.00/M
	2900	3	27	6.5	14.5	8.5	12	+7	25	UPC2762TBCT-ND	1.38	11.50	53.67	UPC2762TBTR-ND	—	767.00/M
4	2400	3	27	5.5	20	12	9	+6.5	29	UPC2763TBCT-ND	1.38	11.50	53.67	UPC2763TBTR-ND	—	767.00/M
	2400	3	36	6.0	21	14	10	+11.5	30	UPC2771TBCT-ND	1.38	11.50	53.67	UPC2771TBTR-ND	—	767.00/M
	2700	5	25	6.0	23	7.5	20	+6	32	UPC2776TBCT-ND	1.41	11.75	54.83	UPC2776TBTR-ND	—	783.00/M

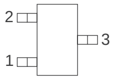
Silicon MMIC Prescalers

Fig.	fin GHz Min	Max	Pin dBm Min	Max	Vcc V	Icc Typ mA	Divide Ratio	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000
8	0.5	3	-15	+6	5	19	64/128/256	UPB1506GVCT-ND	3.00	27.00	127.50	UPB1506GVTR-ND	1850.00
	0.5	3	-15	+6	5	19	64/128/256	UPB1507GVCT-ND	3.00	27.00	127.50	UPB1507GVTR-ND	1850.00
	0.5	3	-10	+6	5	10	2	UPB1508GVCT-ND	3.00	27.00	127.50	UPB1508GVTR-ND	1850.00
	0.5	1	-20	-5	3	5	2/4/8	UPB1509GVCT-ND	3.00	27.00	127.50	UPB1509GVTR-ND	1850.00
	0.5	3	-10	+6	5	15	4	UPB1510GVCT-ND	3.00	27.00	127.50	UPB1510GVTR-ND	1850.00

GaAs MMIC SPDT Switches

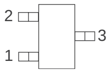
Fig.	Frequency Range GHz	IL Typ dB	Isolation @ 2GHz dB	RLin Min dB	RLout Min dB	P1dB dBm	tsw ns	Vcont V	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000
8	0.1-2.5	0.6	22	11	11	+30	30	+3/0	UPG137GVCT-ND	2.85	25.65	121.13	—	—
9	0.1-2.5	0.5	20	11	11	+30	30	+3/0	UPG152TACT-ND	1.62	13.50	63.00	UPG152TATR-ND	900.00/M

Fig. 1 SMT



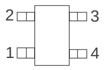
Std. Pin Conn.
1 Emitter
2 Base
3 Collector

Fig. 2 SOT-323



Std. Pin Conn.
1 Emitter
2 Base
3 Collector

Fig. 3 SOT-143R



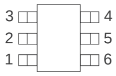
Pin Conn. for UPC1688G
1. GND
2. OUT
3. V_{CC}
4. IN

Std. Pin Conn.
1 Collector
2 Emitter
3 Base
4 Emitter

Rev. Pin Conn.
1 Emitter
2 Collector
3 Emitter
4 Base

Pin Conn. for NE25139
1 Source
2 Drain
3 Gate 2
4 Gate 1

Fig. 4 SOT-363

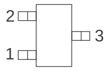


Pin Conn. for NE696M01
1. Emitter
2. Emitter
3. Base
4. Emitter
5. Emitter
6. Collector

Pin Conn. for UPA810T/ UPA814T
1. C2 4. B1
2. B2 5. E1
3. C1 6. E2

Pin Conn. for UPA800T/ UPA806T
1. C2 4. B1
2. E1 5. B2
3. C1 6. E2

Fig. 5 SOT-23



Std. Pin Conn.
1 Emitter
2 Base
3 Collector

Fig. 6 SOT-89

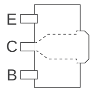
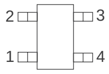


Fig. 7 SOT-343



Pin Conn. for NE25118 NE25139
1 Source
2 Drain
3 Gate 2
4 Gate 1

Pin Conn. for NE34018
1 Source
2 Gate
3 Source
4 Drain

Fig. 8 8 pin SSOP

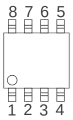
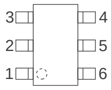


Fig. 9 SOT-26



Diodes and Transistors

Silicon Switching Diodes

Fig.	Forward Current If (mA)	Surge Current Ifs (A)	Rev. Volt. (Vr)	Max. For. Voltage (Vf)	Recovery Time Trr (ns)	Power Dissip. mW	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
							SOT-23							
1	250	0.625	250	1	50	350	BAS21INCT-ND	1.92	10.80	39.00	BAS21INTR-ND	3,000	32.00/M	BAS21E6327
	250	4.5	75	1.2	4	370	SMBD914INCT-ND	1.92	10.80	39.00	SMBD914INTR-ND	3,000	32.00/M	SMBD914E6327
	250	4.5	75	1.2	6	370	BAS16INCT-ND	1.76	9.90	35.75	BAS16INTR-ND	3,000	30.00/M	BAS16E6327
	120	0.2	40	1	0.1	250	BAS40INCT-ND	2.70	17.55	72.90	BAS40INTR-ND	3,000	54.00/M	BAS40E6327
	70	0.1	70	1	0.1	250	BAS70IN xCT-ND	2.48	17.16	75.90	BAS70INTR-ND	3,000	66.00/M	BAS70E6327
2	200	4.5	70	1.2	3	250	BAV170INCT-ND	2.24	12.60	45.50	BAV170INTR-ND	3,000	33.00/M	BAV170E6327
	200	4.5	70	1.2	6	250	BAV70INCT-ND	1.92	10.80	39.00	BAV70INTR-ND	3,000	32.00/M	BAV70E6327
	120	0.2	40	1	0.1	250	BAS4005INCT-ND	2.70	17.55	72.90	BAS4005INTR-ND	3,000	54.00/M	BAS4005E6327
	70	0.1	70	1	0.1	250	BAS7005INCT-ND	2.48	17.16	75.90	BAS7005INTR-ND	3,000	66.00/M	BAS7005E6327
3	200	4.5	70	1.2	3	330	BAV199INCT-ND	2.24	12.60	45.50	BAV199INTR-ND	3,000	33.00/M	BAV199E6327
	200	4.5	70	1.2	6	330	BAV99INCT-ND	1.92	10.80	39.00	BAV99INTR-ND	3,000	32.00/M	BAV99E6327
	200	4.5	100	1.1	15	330	SMBD7000INCT-ND	1.92	10.80	39.00	SMBD7000INTR-ND	3,000	32.00/M	SMBD7000E6327
	120	0.2	40	1	0.1	250	BAS4004INCT-ND	2.70	17.55	72.90	BAS4004INTR-ND	3,000	54.00/M	BAS4004E6327
	70	0.1	70	1	0.1	250	BAS7004INCT-ND	2.48	17.16	75.90	BAS7004INTR-ND	3,000	66.00/M	BAS7004E6327
4	200	4.5	70	1.2	6	330	BAW56INCT-ND	1.92	10.80	39.00	BAW56INTR-ND	3,000	32.00/M	BAW56E6327
	120	0.2	40	1	0.1	250	BAS4006INCT-ND	2.70	17.55	72.90	BAS4006INTR-ND	3,000	54.00/M	BAS4006E6327
							SOT-89							
5	1000	10	400	2	1000	1000	BAW78DINCT-ND	3.55	25.56	—	BAW78DINTR-ND	1,000	128.00	BAW78DE6327
							SOT-143							
6	140	—	50	1.3	6	210	BGX50AINCT-ND	3.23	22.36	98.90	BGX50AINTR-ND	3,000	77.00/M	BGX50AE6327
							SOT-323							
3	250	0.8	40	0.75	—	250	BAT6404WINCT-ND	2.25	15.60	69.00	BAT6404WINTR-ND	3,000	60.00/M	BAT6404WE6327

Silicon Variable Capacitance Diodes

Package	Fig.	Reverse Voltage Vr	Forward current If (mA)	Cap. Ratio Ct2/Ct25 (pF)	Diode Cap. VR=2V (Ct) (pF)	Series Res. (rs)Ω	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOD-323	5	30	20	6.7	15	0.55	BB535INCT-ND	3.15	21.84	96.60	BB535INTR-ND	3,000	76.00/M	BB535E7908
				10.4	29.7	0.65	BB639INCT-ND	3.00	21.12	96.00	BB639INTR-ND	3,000	82.00/M	BB639E7908
				12.4*	9.3‡	1.8	BB833INCT-ND	3.75	27.00	135.00	BB833INTR-ND	3,000	113.00/M	BB833E6327

* C_{T1}/C_{T28} ‡ V_R = 1V

Silicon AF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-23	NPN	45	50	100	140	BC847AINCT-ND	1.76	9.90	35.75	BC847AINTR-ND	3,000	30.00/M	BC847AE6327
	NPN	45	50	100	480	BC847CINCT-ND	1.76	9.90	35.75	BC847CINTR-ND	3,000	30.00/M	BC847CE6327
	PNP	45	50	100	480	BC857CINCT-ND	1.76	9.90	35.75	BC857CINTR-ND	3,000	30.00/M	BC857CE6327
	PNP	60	80	500	2000	BCV46INCT-ND*	2.40	15.60	64.80	BCV46INTR-ND*	3,000	56.00/M	BCV46E6327
	NPN	60	45	500	2000	BCV47INCT-ND*	2.40	15.60	64.80	BCV47INTR-ND*	3,000	56.00/M	BCV47E6327
	NPN	45	45	100	460	BCX70KINCT-ND	1.92	10.80	39.00	BCX70KINTR-ND	3,000	32.00/M	BCX70KE6327
	NPN	80	80	500	100	SMBTA06INCT-ND	1.50	9.75	40.50	SMBTA06INTR-ND	10,000	26.00/M	SMBTA06E6433
	PNP	80	80	500	100	SMBTA56INCT-ND	1.50	9.75	40.50	SMBTA56INTR-ND	10,000	26.00/M	SMBTA56E6433
	PNP	30	30	100	20000	SMBTA64INCT-ND*	2.30	14.95	62.10	SMBTA64INTR-ND*	3,000	54.00/M	SMBTA64E6327
	PNP	300	300	500	40	SMBTA92INCT-ND	1.90	12.35	51.30	SMBTA92INTR-ND	3,000	45.00/M	SMBTA92E6327
SOT-89	PNP	80	100	1000	25	BCX5310INCT-ND	3.50	24.64	—	BCX5310INTR-ND	1,000	101.00	BCX5310E6327
	NPN	45	100	1000	25	BCX5410INCT-ND	3.50	24.64	—	BCX5410INTR-ND	1,000	101.00	BCX5410E6327
	PNP	20	25	1000	160	BCX6916INCT-ND	3.00	21.60	—	BCX6916INTR-ND	1,000	108.00	BCX6916E6327

* Darlington

Silicon RF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-343	NPN	4.5	15	12	90	BFP405INCT-ND	6.00	45.00	240.00	BFP405INTR-ND	3,000	214.00/M	BFP405E6327
		4.5	15	35	100	BFP420INCT-ND	6.00	45.00	240.00	BFP420INTR-ND	3,000	214.00/M	BFP420E6327
		4.5	15	100	80	BFP450INCT-ND	5.64	42.30	225.60	BFP450INTR-ND	3,000	201.00/M	BFP450E6327
		2.5	10	40	110	BFP520INCT-ND	6.48	48.60	279.00	BFP520INTR-ND	3,000	257.00/M	BFP520E6327
		2.3	7.5	80	180	BFP620INCT-ND§	8.17	61.29	351.85	BFP620INTR-ND§	3,000	323.00/M	BFP620E6327
SOT-23	PNP	15	20	25	50	BFT92INCT-ND	4.92	36.90	196.80	BFT92INTR-ND	3,000	185.00/M	BFT92E6327

§ Germanium

Silicon Switching Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-23	NPN	40	75	600	100	SMBT2222AINCT-ND	1.92	10.80	39.00	SMBT2222AINTR-ND	3,000	32.00/M	SMBT2222AE6327
	PNP	60	60	600	100	SMBT2907AINCT-ND	1.92	10.80	39.00	SMBT2907AINTR-ND	3,000	32.00/M	SMBT2907AE6327
	NPN	40	60	200	100	SMBT3904INCT-ND	1.60	9.00	32.50	SMBT3904INTR-ND	3,000	27.00/M	SMBT3904E6327
	PNP	40	40	200	100	SMBT3906INCT-ND	1.60	9.00	32.50	SMBT3906INTR-ND	3,000	27.00/M	SMBT3906E6327
	NPN	30	30	300	20000	SMBTA14INCT-ND*	2.60	16.90	70.20	SMBTA14INTR-ND*	3,000	61.00/M	SMBTA14E6327

* Darlington

Silicon Digital Transistor

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-23	NPN	50	50	100	30	BCR133INCT-ND	1.92	10.80	39.00	BCR133INTR-ND	3,000	32.00/M	BCR133E6327

Fig. 1

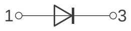


Fig. 2

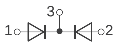


Fig. 3

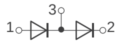


Fig. 4

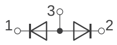


Fig. 5

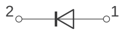
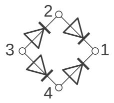


Fig. 6



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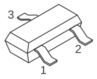

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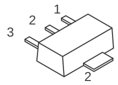

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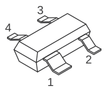
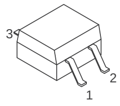
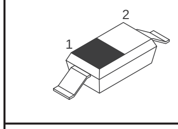


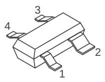
SOT-323



SOD-323



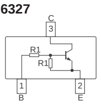
SOT-343



Transistor Pin Out

Pkg	Pin1	Pin 2	Pin 3	Pin 4
SOT-23	B	E	C	—
SOT-89	B	C	E	—
SOT-343	B	E	C	E

BCR133E6327



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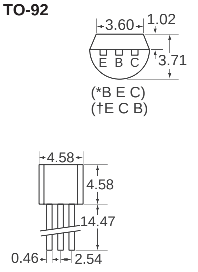
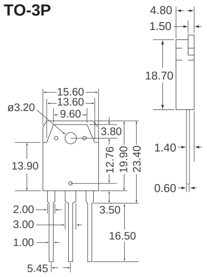
FAIRCHILD
SEMICONDUCTOR

Transistors

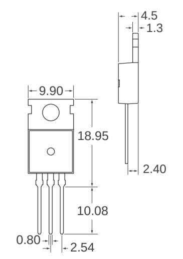
TO-92



TO-3P



TO-220



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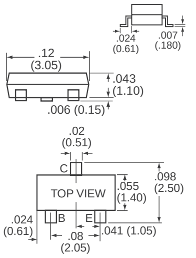
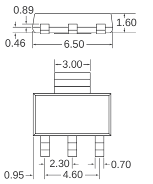
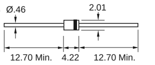


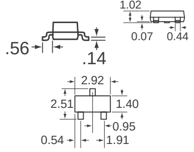
SOT-223



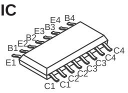
DO-35



SuperSOT™ 3



16-SOIC



Description	Min. HFE	Pkg.	Digi-Key Part No.	Pricing		
				1	25	100
NPN Transistors						
GP Ampl SW, 30V, 500MA	100	TO-92	2N3704-ND†	.31	5.81	16.12
SSGP, 40V, 100mA	100	TO-92	2N3904-ND	.39	7.31	20.28
GP Ampl, 40V, 200mA	40	TO-92	2N3904D26ZCT-ND**	.39	7.31	20.28
SS GP Ampl, 30V, 50mA	50	TO-92	2N4123-ND	.33	6.41	18.04
SSGP, 25V, 50mA	60	TO-92	2N4124-ND	.33	6.41	18.04
SS GP Ampl, 40V, 500mA	50	TO-92	2N4400-ND	.34	6.72	18.92
SSGP, 40V, 500mA	100	TO-92	2N4401-ND	.34	6.72	18.92
GP Ampl, 40V, 600mA	20	TO-92	2N4401D26ZCT-ND**	.35	6.81	19.18
GP Ampl, 40V, 600mA	20	TO-92	2N4401D75ZCT-ND**	.34	6.72	18.92
LLGP, 80V, 10mA	60	TO-92	2N4410-ND	.29	5.40	15.60
LL LN Ampl, 30V, 10mA	350	TO-92	2N5088-ND	.32	6.25	17.60
LL LN Ampl, 25V, 10mA	450	TO-92	2N5089-ND	.32	6.25	17.60
LLGP, 50V, 10mA	250	TO-92	2N5210-ND	.32	6.25	17.60
SS GP Ampl, 140V, 50mA	60	TO-92	2N5550-ND	.34	6.72	18.92
Saturated SW, 15V, 10mA	40	TO-92	2N5769-ND	.27	5.13	14.82
RF Ampl, 15V, 50mA	20	TO-92	2N5770-ND	.23	4.32	12.48
Saturated SW, 15V, 300mA	30	TO-92	2N5772-ND	.31	5.81	16.12
SS GP Ampl, 100V, 50mA	80	TO-92	2N5830-ND	.34	6.43	17.84
LL Ampl, 60V, 10mA	150	TO-92	2N5961-ND	.26	4.86	14.04
Darlington, 100V, 1.5A	1,000	TO-92	2N7052-ND	.36	6.94	19.54
GP Ampl, 45V, 1.5A	160	SOT-23	BC81740CT-ND**	.37	6.96	19.29
GP Ampl, 65V, 100mA	200	SOT-23	BC846BCT-ND**	.29	5.51	15.93
GP Ampl, 60V, 1.5A	25	SOT-223	BCP55FSCT-ND**	.40	8.03	22.03
GP Ampl, 40V, 1.0A	35	SOT-23	MMBT2222AFSCT-ND**	.16	3.08	8.91
GP Ampl, 40V, 200mA	40	SOT-23	MMBT3904FSCT-ND**	.16	2.97	8.58
GP Ampl, 40V, 600mA	20	SOT-23	MMBT4401FSCT-ND**	.16	3.08	8.91
GP Ampl, 30V, 100mA	300	SOT-23	MMBT5088CT-ND**	.17	3.26	9.43
RF, 12V, 50mA	25	SOT-23	MMBT5179CT-ND**	.23	4.34	12.55
Darlington, 40V, 1.2A	10,000	SOT-23	MMBT6427FSCT-ND**	.22	4.10	11.83
GP Ampl, 50V, 0.5A	250	SOT-23	MMBT6428CT-ND**	.18	3.29	9.49
GP Ampl, 80V, 500mA	100	SOT-23	MMBTA06FSCT-ND**	.20	3.78	10.92
High V Amp, 300V, 500mA	25	SOT-23	MMBTA42FSCT-ND**	.27	5.13	14.82
RF, 25V, 50mA	60	SOT-23	MMBTH10FSCT-ND**	.25	4.70	13.59
SS GP Ampl, 25V, 2mA	150	TO-92	MPS2924-ND	.41	8.27	22.68
SS GP Ampl, 25V, 100mA	250	TO-92	MPS6515-ND	.27	4.99	13.83
SS GP Ampl, 80V, 500mA	50	TO-92	MPSA06-ND	.26	4.95	13.73
GP Ampl, 80V, 500mA	100	TO-92	MPSA06_D26ZTR-ND	116.16/2,000		
Darlington, 20V, 10mA	20K	TO-92	MPSA12-ND	.30	5.61	15.55
Darlington, 30V, 100mA	10K	TO-92	MPSA13-ND	.31	5.85	16.22
Darlington, 30V, 100mA	20K	TO-92	MPSA14-ND	.31	5.85	16.22
GP Ampl, 45V, 100mA	400	TO-92	MPSA18-ND	.30	5.55	15.39
Medium Power, 300V, 30mA	40	TO-92	MPSA42-ND	.33	6.48	18.26
SS Ampl, 300V, 500mA	25	TO-92	MPSA42_D26ZTR-ND	132.00/2,000		
Medium Power, 200V, 30mA	50	TO-92	MPSA43-ND	.33	6.48	18.26
RF Ampl, 25V, 50mA	60	TO-92	MPSH10-ND*	.32	6.08	16.85
GP Ampl, 45V, 500mA	80	TO-92	PN100RMCT-ND**	.31	5.81	16.12
SSGP, 30V, 500mA, 1A	100	TO-92	PN2222-ND	.30	5.58	16.12
SSGP, 40V, 500mA, 1A	100	TO-92	PN2222A-ND	.30	5.58	16.12
GP Ampl, 40V, 1.0A	35	TO-92	PN2222AD26ZCT-ND**	.30	5.58	16.12
Saturated SW, 15V, 10mA	20	TO-92	PN2369-ND	.25	4.76	13.21
Saturated, 15V, 100mA	40	TO-92	PN2369A-ND	.25	4.76	13.21
LL Ampl, 60V, 10mA	250	TO-92	PN2484-ND	.30	5.61	15.55
LLGP, 25V, 1mA	150	TO-92	PN3565-ND	.28	5.33	14.77
SSGP, 30V, 100mA	150	TO-92	PN3566-ND	.27	5.06	14.04
SSGP, 40V, 150mA	40	TO-92	PN3567-ND	.27	5.06	14.04
SSGP, 40V, 150mA	100	TO-92	PN3569-ND	.25	4.70	13.59
SSHS, 15V, 100mA	35	TO-92	PN4275-ND	.29	5.40	15.60
N-Channel Switch, 30V 50mA	60	TO-92	PN4392FS-ND	.36	7.22	19.80
SSGP Ampl, 25V, 100mA	50	TO-92	PN5135-ND	.32	6.25	17.60
GP Ampl, 40V, 1.0A	35	SOT-223	PZT2222ACT-ND**	.40	7.88	22.18
GP Ampl, 300V, 500mA	25	SOT-223	PZTA42CT-ND**	.39	7.88	21.60
Epitaxial, 100V, 1.0A	40	TO-220	TIP29CFS-ND	.53	9.90	29.70
Epitaxial, 100V, 3.0A	25	TO-220	TIP31CFS-ND	.53	9.90	29.70
Epitaxial, 100V, 3.0A	25	TO-220	TIP31CTU-ND	.53	9.90	29.70
Epitaxial, 100V, 6.0A	30	TO-220	TIP41CTU-ND	.59	11.07	33.21
Darlington, 100V, 8A	1,000	TO-220	TIP102TU-ND	.79	14.76	44.28
Darlington, 100V, 2A	1,000	TO-220	TIP112TU-ND	.59	10.98	32.94
Darlington, 100V, 5A	1,000	TO-220	TIP122FS-ND	.59	10.98	32.94
Darlington, 100V, 5A	1,000	TO-220	TIP122TU-ND	.59	10.98	32.94
Darlington, 100V, 10A	1,000	TO-3P	TIP142TU-ND	1.22	25.35	81.12
PNP Transistors						
SS GP Ampl, 40, 100mA	50	TO-92	2N3905-ND	.36	7.06	19.89
SSGP, 40V, 100mA	100	TO-92	2N3906-ND	.39	7.31	20.28
GP Ampl, 40V, 200mA	60	TO-92	2N3906D26ZCT-ND**	.37	7.19	20.24
SS GP Ampl, 25V, 50mA	120	TO-92	2N4125-ND	.34	6.56	18.48
SSGP, 25V, 50mA	60	TO-92	2N4126-ND	.34	6.56	18.48
SS GP Ampl, 40, 500mA	50	TO-92	2N4402-ND	.35	6.88	19.36
SSGP, 40V, 500mA	100	TO-92	2N4403-ND	.35	6.88	19.36
GP Ampl, 40V, 600mA	30	TO-92	2N4403D26ZCT-ND**	.35	6.88	19.36
LLGP, 50V, 10mA	250	TO-92	2N5087-ND	.35	6.88	19.36
SS GP Ampl, 120, 50mA	40	TO-92	2N5400-ND	.24	4.59	13.26
SS GP Ampl, 150, 50mA	60	TO-92	2N5401-ND	.34	6.72	18.92
HS SW, 15V, 10mA	50	TO-92	2N5771-ND	.23	4.32	12.48
Epitaxial, -30V, -100mA	110	SOT-23	BC858CCT-ND**	.38	7.61	20.88
GP Ampl, 30V,1.0A	70	Super-SOT-3	FMMT549FSCT-ND**	.37	7.40	20.30
Darlington, 30V, 1.2A	10,000	SOT-23	MMBTA64FSCT-ND**	.25	4.73	13.10
GP Ampl, 60V, 800mA	75	SOT-23	MMBT2907AFSCT-ND**	.17	3.24	9.36
GP Ampl, 50V, 100mA	250	SOT-23	MMBT5087CT-ND**	.18	3.35	9.69
GP Ampl, 40V, 600mA	30	SOT-23	MMBT4403FSCT-ND**	.17	3.24	9.36
GP Ampl, 40V, 200mA	60	SOT-23	MMBT3906FSCT-ND**	.16	2.93	8.45
GP Ampl, 25V, 200mA	120	SOT-23	MMBT4126FSCT-ND**	.16	2.95	8.52
GP Ampl, 80V, 500mA	100	SOT-23	MMBTA56FSCT-ND**	.20	3.78	10.92
High V Amp, 300V, 500mA	25	SOT-23	MMBTA92FSCT-ND**	.22	4.05	11.70
RF, 20V, 50mA	60	SOT-23	MMBTH81CT-ND**	.21	4.01	11.57
GP Ampl, 60V, 500mA	100	TO-92	MPSA05-ND	.24	4.46	12.87
High Current Dr, 80V, 500mA	50	TO-92	MPSA56-ND	.27	5.13	14.82
Darlington, 30V, 1.2A	5,000	TO-92	MPSA63-ND	.33	6.11	16.95
High V Amp, 300V, 500mA	25	TO-92	MPSA92-ND	.34	6.72	18.92
Medium Power, 200V, 30mA	40	TO-92	MPSA93-ND	.24	4.50	12.48
SS GP Ampl, 100V, 50mA	40	TO-92	MPSL51-ND	.26	4.88	13.52
SSGP, 40V, 500mA	100	TO-92	PN2907-ND	.26	4.78	13.26
SSGP, 60V, 500mA	100	TO-92	PN2907A-ND	.26	4.78	13.26
SS GP Ampl, 40V, 50mA	100	TO-92	PN3251-ND	.39	7.88	21.60
SSGP, 25V, 300mA	30	TO-92	PN3638A-ND	.28	5.33	14.77
Saturated SW, 12V, 50mA	30	TO-92	PN3640-ND	.27	5.13	14.82
SSGP, 40V, 50mA	150	TO-92	PN4122-ND	.29	5.51	15.29
LLLN, 60V, 1mA	300	TO-92	PN4249-ND	.33	6.11	16.95
LLLN, 40V, 1mA	250	TO-92	PN4250-ND	.30	5.61	15.55
LLLN, 60V, 1mA	250	TO-92	PN4250A-ND	.33	6.11	16.95
SS GP Ampl, 150V, 10mA	40	TO-92	PN4888-ND	.37	7.19	20.24
SSGP Ampl, 30V, 50mA	150	TO-92	PN4917-ND	.27	5.06	14.04
Saturated SW, 10V, 30mA	20	TO-92	PN5134-ND	.28	5.19	14.40
LL Ampl, 30V, 10mA	50	TO-92	PN5138-ND	.33	6.11	16.95
SS GP Ampl, 20V, 300mA	30	TO-92	PN5142-ND	.42	8.13	22.88
Epitaxial, -100V, -3A	25	TO-220	TIP32CFS-ND	.54	10.08	30.24
Epitaxial, -100V, -3A	25	TO-220	TIP32CTU-ND	.54	10.08	30.24
Darlington, -100V, -8A	1,000	TO-220	TIP107TU-ND	.84	15.84	47.52
Darlington, -100V, -5A	1,000	TO-220	TIP125TU-ND	.61	11.52	34.56
Darlington, -100V, -5A	1,000	TO-220	TIP127FS-ND	.61	11.52	34.56
Darlington, -100V, -5A	1,000	TO-220	TIP127TU-ND	.61	11.52	34.56
Darlington, -100V, -10A	1,000	TO-3P	TIP147TU-ND	1.29	26.85	85.92
N-Channel J-FET Transistors						
GP Amp	—	TO-92	2N5457-ND	.34	6.30	17.47
VHF Amp & Mixer	—	TO-92	MPF102-ND	.34	6.55	18.44
Transistor Arrays						
IC, Amp, Multichip, GP, NPN	—	16-SOIC	MMPQ2222ACT-ND	1.68	1.35	1.01
IC, Amp, Multichip, GP, NPN	—	16-SOIC	MMPQ2222ATR-ND	2150.40/2,500		

† * (See drawings above for pin layout).
** For Tape and Reel Part No., change the CT to TR. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

Zener Diodes

Zener Volt. V_R (V)	I_R (µA)	Pkg.	Digi-Key Part No.	Pricing			Tape and Reel	
				1	10	100	Size	Pricing
5.6	5.0	DO-35	1N5232BTRCT-ND**	.15	1.09	7.87	5,000	24.20/M
5.1	1.0	DO-35	1N751ATRCT-ND**	.20	1.53	11.05	5,000	34.00/M
20.0	0.05	SOT-23	BZX84C20FSCT-ND**	.22	1.66	11.96	3,000	43.24/M
5.1	2.0	SOT-23	BZX84C5V1FSCT-ND**	.17	1.31	9.43	3,000	34.08/M
12.0	1.0	SOT-23	MMBZ5242BFSCT-ND**	.22	1.64	11.83	3,000	42.77/M

** For Tape and Reel Part No., change the CT to TR.

FAIRCHILD SEMICONDUCTOR Transistors and Diodes

Fig. 1

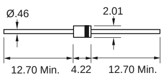


Fig. 2

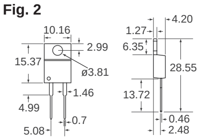


Fig. 3

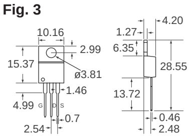


Fig. 4

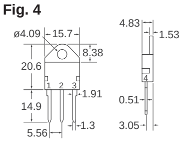


Fig. 5

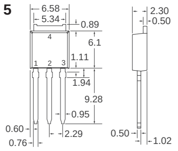


Fig. 6

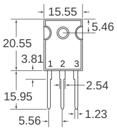


Fig. 7

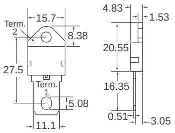


Fig. 8

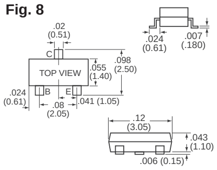


Fig. 9

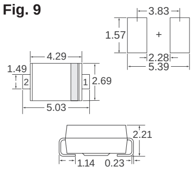


Fig. 10

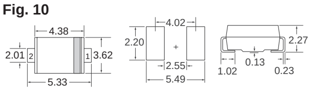


Fig. 11

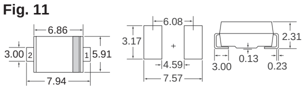


Fig. 12

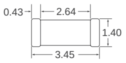


Fig. 13

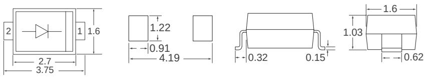
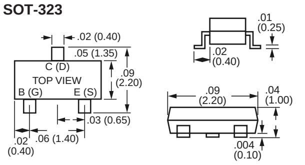


Fig.	Max. Reverse Voltage (V)	Max. Ave. Rectified Current (mA)	Pkg.	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel* Size	Tape and Reel* Pricing
1	100	200mA	DO-35	1N914BTRCT-ND	.08	.59	4.23	10,000	11.05/M
	100	100mA	DO-35	1N914TRCT-ND	.08	.59	4.23	10,000	11.05/M
	150	200mA	DO-35	1N3595TRCT-ND	.13	.96	6.96	10,000	18.19/M
	100	200mA	DO-35	1N4448TRCT-ND	.08	.59	4.23	10,000	11.05/M
	50	200mA	DO-35	1N4454TRCT-ND	.08	.59	4.23	10,000	11.05/M
	100	200mA	DO-35	1N4148FS-ND	.06	.43	3.12	—	—
2	200	15A	TO-220AC	MUR1520FS-ND	1.15	9.60	76.80	—	—
	400	15A	TO-220AC	MUR1540-ND	1.15	9.60	76.80	—	—
	600	15A	TO-220AC	MUR1560-ND	1.19	9.90	79.20	—	—
	600	15A	TO-220AC	RURP1560-ND	1.39	11.55	92.40	—	—
	1,000	8A	TO-220AC	MUR8100E-ND	.86	7.20	57.60	—	—
	1,000	8A	TO-220AC	RURP8100-ND	1.49	12.38	99.00	—	—
	200	8A	TO-220AC	MUR820FS-ND	.79	6.60	52.80	—	—
	400	8A	TO-220AC	MUR840-ND	.79	6.60	52.80	—	—
	600	8A	TO-220AC	MUR860-ND	.79	6.60	52.80	—	—
	600	8A	TO-220AC	RURP860-ND	.83	6.88	55.00	—	—
	1,000	15A	TO-220AC	RURP15100-ND	1.54	12.32	92.40	—	—
	600	30A	TO-220AC	RURP3060-ND	2.12	16.94	127.05	—	—
3	200	8A	TO-220AB	MUR1620CTFS-ND	.90	7.50	60.00	—	—
4	200	15A	TO-218AC	MUR3020PT-ND	2.22	17.76	133.20	—	—
	400	15A	TO-218AC	MUR3040PT-ND	2.25	18.00	135.00	—	—
	600	15A	TO-218AC	MUR3060PT-ND	2.46	19.68	147.60	—	—
5	200	6A	TO-251AA	RURD620CC-ND	1.01	8.40	67.20	—	—
6	1,200	30A	TO-247	RURG30120-ND	2.78	22.25	173.04	—	—
	200	30A	TO-247	RURG3020CC-ND	3.79	30.29	235.62	—	—
	600	30A	TO-247	RURG3060-ND	2.37	18.92	141.90	—	—
	600	30A	TO-247	RURG3060CC-ND	3.81	30.49	237.16	—	—
	600	50A	TO-247	RURG5060-ND	3.91	31.28	243.32	—	—
	1,000	80A	TO-247	RURG80100-ND	5.63	45.06	380.16	—	—
	600	80A	TO-247	RURG8060-ND	5.20	41.58	323.40	—	—
7	600	100A	TO-218	RURU10060-ND	5.52	44.18	372.74	—	—
	600	80A	TO-218	RURU8060-ND	5.00	40.00	311.08	—	—
8	85	200mA	SOT-23	BAS16FSCT-ND	.14	1.08	7.80	3,000	28.20/M
	250	200mA	SOT-23	BAS21FSCT-ND	.16	1.19	8.58	3,000	31.02/M
	30	200mA	SOT-23	BAT54CFSCT-ND	.26	1.94	14.04	3,000	50.76/M
	30	200mA	SOT-23	BAT54FSCT-ND	.27	2.05	14.82	3,000	53.58/M
	30	200mA	SOT-23	BAT54SFSCT-ND	.26	1.94	14.04	3,000	50.76/M
	70	200mA	SOT-23	BAV70FSCT-ND	.24	1.84	13.26	3,000	47.94/M
	50	200mA	SOT-23	BAV74FSCT-ND	.24	1.84	13.26	3,000	47.94/M
	70	200mA	SOT-23	BAV99FSCT-ND	.24	1.84	13.26	3,000	47.94/M
	100	200mA	SOT-23	MMBD1203CT-ND	.24	1.84	13.26	3,000	47.94/M
	100	200mA	SOT-23	MMBD1204CT-ND	.24	1.84	13.26	3,000	47.94/M
	200	200mA	SOT-23	MMBD1503ACT-ND	.23	1.72	12.42	3,000	44.89/M
	100	200mA	SOT-23	MMBD4148CCCT-ND	.24	1.84	13.26	3,000	47.94/M
	100	200mA	SOT-23	MMBD4148FSCT-ND	.16	1.19	8.58	3,000	31.02/M
	100	200mA	SOT-23	MMBD7000FSCT-ND	.24	1.84	13.26	3,000	47.94/M
	100	200mA	SOT-23	MMBD914FSCT-ND	.17	1.30	9.36	3,000	33.84/M
9	200	1.0A	DO-214AC	ES1DFSCT-ND	.35	2.76	19.45	7,500	75.14/M
10	200	2.0A	DO-214AA	ES2DFSCT-ND	.41	3.34	22.90	3,000	108.12/M
11	200	3.0A	DO-214AB	ES3DFSCT-ND	.41	3.31	24.84	3,000	111.78/M
12	100	200mA	LL-34	FDLL4148CT-ND	.18	1.31	9.49	2,500	34.32/M
13	20	500mA	SOD-123	MBR0520LCT-ND	.40	3.16	22.22	3,000	90.90/M

* For Tape & Reel Part No., change CT to TR.

DIODES INCORPORATED Transistors

SOT-323



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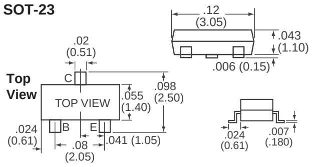

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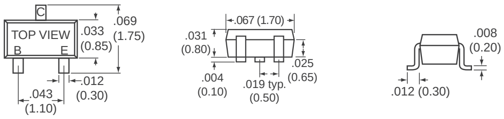
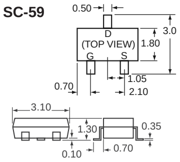


SC-59



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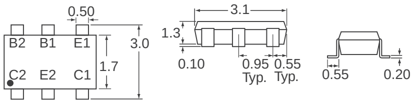
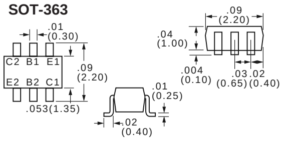


SOT-363



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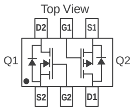

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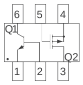


Pin	Function
1	E Q1
2	B Q1
3	D Q2
4	S Q2
5	G Q2
6	C Q1

Description	Min. HFE	Pkg.	Digi-Key Part No.	Pricing 10	Pricing 100	Tape and Reel** Size	Tape and Reel** Pricing
NPN Transistors							
S.S., 40V, 600mA	100	SOT-323	MMST2222ADICT-ND*	3.25	23.40	3,000	111.00/M
S.S., 40V, 200mA	40	SOT-323	MMST3904DICT-ND	3.25	23.40	3,000	111.00/M
S.S., 40V, 600mA	20	SOT-323	MMST4401DICT-ND	3.25	23.40	3,000	111.00/M
S.S., 25V, 200mA	60	SOT-323	MMST4124DICT-ND*	3.25	23.40	3,000	111.00/M
S.S., 160V, 200mA	30	SOT-323	MMST5551DICT-ND*	3.25	23.40	3,000	111.00/M
Darlington Amp, 40V, 500mA	14K	SOT-323	MMST6427DICT-ND*	3.25	23.40	3,000	111.00/M
S.S., 60V, 500mA	100	SOT-323	MMSTA05DICT-ND*	3.60	27.00	3,000	135.00/M
S.S., 80V, 500mA	100	SOT-323	MMSTA06DICT-ND*	3.60	27.00	3,000	135.00/M
Darlington Amp, 30V, 300mA	10K	SOT-323	MMSTA13DICT-ND*	3.60	27.00	3,000	135.00/M
Darlington Amp, 30V, 300mA	20K	SOT-323	MMSTA14DICT-ND*	3.60	27.00	3,000	135.00/M
S.S., 300V, 200mA	25	SOT-323	MMSTA42DICT-ND*	3.60	27.00	3,000	135.00/M
SMD 350mW, 40V, 1.0	100	SOT-23	MMBT2222ADICT-ND	2.63	18.20	3,000	70.00/M
SMD 350mW, 40V, 0.3	100	SOT-23	MMBT3904DICT-ND	2.25	15.60	3,000	60.00/M
SMD 350mW, 40V, 0.75	100	SOT-23	MMBT4401DICT-ND	2.63	18.20	3,000	70.00/M
Gen. Purp. 60V, 100mA, 0.25	50	SOT-23	MMBTA05DICT-ND	3.63	25.52	3,000	104.00/M
Gen. Purp., 80V, 100mA, 0.25	50	SOT-23	MMBTA06DICT-ND	3.63	25.52	3,000	104.00/M
Darlington Amp. 30V, 100mA	10K	SOT-23	MMBTA13DICT-ND	3.63	25.52	3,000	104.00/M
Darlington Amp. 30V, 100mA	20K	SOT-23	MMBTA14DICT-ND	3.63	25.52	3,000	104.00/M
SMD, 18V, 1A	150	SOT-23	MMBT123SDICT-ND	3.00	21.60	3,000	102.00/M
S.S., 25V, 200mA	60	SOT-23	MMBT4124DICT-ND*	2.63	18.20	3,000	70.00/M
Darlington Amp, 40V, 500mA	14K	SOT-23	MMBT6427DICT-ND*	3.63	25.52	3,000	104.00/M
S.S., 300V, 200mA	25	SOT-23	MMBTA42DICT-ND*	3.63	25.52	3,000	104.00/M
SMD VHF/UHF, 25V, 50mA	30	SOT-23	MMBTH10DICT-ND*	4.00	28.80	3,000	136.00/M
SMD VHF/UHF, 40V, 50mA	60	SOT-23	MMBTH24DICT-ND*	4.00	28.80	3,000	136.00/M
Darlington Amp, 80V, 500mA	80	SOT-23	MMBTA28DICT-ND* *NEW!*	3.63	25.52	3,000	104.00/M
S.S., 40V, 600mA	35	SOT-523	MMBT2222ATDICT-ND	2.63	18.20	3,000	70.00/M
S.S., 40V, 200mA	30	SOT-523	MMBT3904TDICT-ND	2.25	15.60	3,000	60.00/M
S.S., 40V, 600mA	20	SOT-523	MMBT4401TDICT-ND	2.63	18.20	3,000	70.00/M
S.S., 50V, 100mA	110	SOT-523	BC847ATDICT-ND	2.25	15.60	3,000	60.00/M
S.S., 50V, 150mA	120	SOT-523	2DC4617QDICT-ND* *NEW!*	2.81	19.80	3,000	81.00/M
S.S., 50V, 150mA	180	SOT-523	2DC4617RDICT-ND* *NEW!*	2.81	19.80	3,000	81.00/M
PNP Transistors							
S.S., –60V, –600mA	75	SOT-323	MMST2907ADICT-ND	3.25	23.40	3,000	111.00/M
S.S., –40V, –200mA	60	SOT-323	MMST3906DICT-ND	3.25	23.40	3,000	111.00/M
S.S., –40V, –600mA	30	SOT-323	MMST4403DICT-ND	3.25	23.40	3,000	111.00/M
S.S., –25V, –200mA	60	SOT-323	MMST4126DICT-ND*	3.25	23.40	3,000	111.00/M
S.S., –150V, –200mA	50	SOT-323	MMST5401DICT-ND*	3.25	23.40	3,000	111.00/M
S.S., –60V, –500mA	100	SOT-323	MMSTA55DICT-ND*	3.60	27.00	3,000	135.00/M
S.S., –80V, –500mA	100	SOT-323	MMSTA56DICT-ND*	3.60	27.00	3,000	135.00/M
Darlington Amp, –30V, –500mA	10K	SOT-323	MMSTA63DICT-ND*	3.60	27.00	3,000	135.00/M
Darlington Amp, –30V, –500mA	20K	SOT-323	MMSTA64DICT-ND*	3.60	27.00	3,000	135.00/M
S.S., –300V, –100mA	25	SOT-323	MMSTA92DICT-ND*	3.60	27.00	3,000	135.00/M
SMD 350mW, 40V, 0.75	100	SOT-23	MMBT4403DICT-ND	2.63	18.20	3,000	70.00/M
SMD Gen. Purp., 60V, 100mA	50	SOT-23	MMBTA55DICT-ND	3.63	25.52	3,000	104.00/M

* See drawings above for pin layout. ** For Tape & Reel Part No., change CT to TR.

(Continued)

Transistors *(Cont.)*

Description	Min. HFE	Pkg.	Digi-Key Part No.	Pricing 10	Pricing 100	Tape and Reel** Size	Tape and Reel** Pricing
PNP Transistors (Cont.)							
SMD Gen. Purp., 80V, 100mA	50	SOT-23	MMBTA56DICT-ND	3.63	25.52	3,000	104.00/M
SMD Gen. Purp., 60V, 150mA	300	SOT-23	MMBT2907ADICT-ND	2.63	18.20	3,000	70.00/M
S.S., –25V, –200mA	60	SOT-23	MMBT4126DICT-ND*	2.63	18.20	3,000	70.00/M
Darlington Amp, –30V, –500mA	10K	SOT-23	MMBTA63DICT-ND*	3.63	25.52	3,000	104.00/M
Darlington Amp, –30V, –500mA	20K	SOT-23	MMBTA64DICT-ND*	3.63	25.52	3,000	104.00/M
S.S., –300V, –100mA	25	SOT-23	MMBTA92DICT-ND*	3.63	25.52	3,000	104.00/M
S.S., –60V, –600mA	50	SOT-523	MMBT2907ATDICT-ND	2.63	18.20	3,000	70.00/M
S.S., –50V, 150mA	120	SOT-523	2DA1774QDICT-ND *NEW!*	2.81	19.80	3,000	81.00/M
S.S., –50V, 150mA	180	SOT-523	2DA1774RDICT-ND *NEW!*	2.81	19.80	3,000	81.00/M
S.S., –50V, 150mA	270	SOT-523	2DA1774SDICT-ND *NEW!*	2.81	19.80	3,000	81.00/M
S.S., –40V, –200mA	30	SOT-523	MMBT3906TDICT-ND	2.25	15.60	3,000	60.00/M
S.S., –40V, –600mA	20	SOT-523	MMBT4403TDICT-ND	2.63	18.20	3,000	70.00/M
Dual NPN Transistors							
S.S., 120V, 50mA	180	SOT-26	IMX8DICT-ND	3.50	25.20	3,000	119.00/M
S.S., 40V, 600mA	35	SOT-363	MMDT2222ADICT-ND	4.00	28.80	3,000	136.00/M
S.S., 40V, 200mA	100	SOT-363	MMDT3904DICT-ND*	4.00	28.80	3,000	136.00/M
S.S., 40V, 600mA	100	SOT-363	MMDT4401DICT-ND*	4.00	30.00	3,000	150.00/M
S.S., 25V, 200mA	60	SOT-363	MMDT4124DICT-ND*	4.00	30.00	3,000	150.00/M
S.S., 160V, 200mA	30	SOT-363	MMDT5551DICT-ND*	4.00	30.00	3,000	150.00/M
Dual PNP Transistors							
S.S., –60V, –600mA	75	SOT-363	MMDT2907ADICT-ND	4.00	28.80	3,000	136.00/M
S.S., –40V, –200mA	60	SOT-363	MMDT3906DICT-ND	4.00	28.80	3,000	136.00/M
S.S., –40V, –200mA	100	SOT-363	DMMT3906WDICT-ND†	4.00	30.00	3,000	150.00/M
S.S., –40V, –600mA	100	SOT-363	MMDT4403DICT-ND*	4.00	30.00	3,000	150.00/M
S.S., –25V, –200mA	60	SOT-363	MMDT4126DICT-ND*	4.00	30.00	3,000	150.00/M
S.S., –150V, –200mA	50	SOT-363	MMDT5401DICT-ND*	4.00	30.00	3,000	150.00/M
Complementary NPN/PNP Transistors							
S.S., 40V, 600mA/ S.S., 60V, 600mA	35/50	SOT-363	MMDT2227DICT-ND*	4.00	28.80	3,000	136.00/M
S.S., 40V, 200mA/ S.S., 40V, 200mA	40/60	SOT-363	MMDT3946DICT-ND	4.00	28.80	3,000	136.00/M
S.S., 40V, 600mA/ S.S., 40V 600mA	20/30	SOT-363	MMDT4413DICT-ND	4.00	30.00	3,000	150.00/M
S.S., 40V, 200mA/ S.S., 40V 200mA	60/60	SOT-363	MMDT4146DICT-ND*	4.00	30.00	3,000	150.00/M
S.S., 160V, 200mA/ S.S., 160V 200mA	30/50	SOT-363	MMDT5451DICT-ND*	4.00	30.00	3,000	150.00/M
NPN/P-Channel Complex Array							
Array, 60V, 600mA	100	SOT-363	CTA2N1PDICT-ND	4.80	36.00	3,000	200.00/M

* See drawings on previous page for pin layout. ** For Tape & Reel Part No., change CT to TR. † Intrinsically Matched PNP Pair.

MOSFETs

Description	RDS (on) Typ. Max.	Pkg.	Digi-Key Part No.	Pricing 10	Pricing 100	Tape and Reel** Size	Tape and Reel** Pricing
N-Channel							
Enhance., 60V, 0.115A	3.2Ω	SOT-23	2N7002DICT-ND	4.00	30.00	3,000	150.00/M
Enhance., 60V, 0.250A	5.0Ω	SOT-23	BS870DICT-ND	4.00	30.00	3,000	150.00/M
Enhance., 50V, 0.200A	3.5Ω	SOT-23	BSS138DICT-ND	4.00	30.00	3,000	150.00/M
Enhance., 60V, 0.500A	5.0Ω	SOT-23	MMBF170DICT-ND	3.00	21.60	3,000	102.00/M
Enhance., 100V, 0.170A	6.0Ω	SOT-23	BSS123DICT-ND *NEW!*	4.20	31.50	3,000	158.00/M
Enhance., 30V, 1.1A	0.17Ω	SC-59	DMN100DICT-ND	7.04	52.80	3,000	293.00/M
Enhance., 60V, 0.115A	3.2Ω	SOT-323	2N7002WDICT-ND	4.80	36.00	3,000	180.00/M
Enhance., 60V, 0.115A	2.0Ω	SOT-523	2N7002TDICT-ND *NEW!*	4.80	36.00	3,000	180.00/M
Enhance., 50V, 0.200A	3.5Ω	SOT-323	BSS138WDICT-ND	4.40	33.00	3,000	165.00/M
Enhance., 100V, 0.170A	6.0Ω	SOT-323	BSS123WDICT-ND *NEW!*	4.20	31.50	3,000	158.00/M
Dual N-Channel							
Enhance., 60V, 0.115A	3.2Ω	SOT-363	2N7002DWDICT-ND	4.80	36.00	3,000	200.00/M
Enhance., 50V, 0.200A	3.5Ω	SOT-363	BSS138DWDICT-ND	5.28	39.60	3,000	219.00/M
P-Channel							
Enhance., –50V, –0.130A	10Ω	SOT-23	BSS84DICT-ND	4.00	30.00	3,000	150.00/M
Enhance., –50V, –0.130A	10Ω	SOT-323	BSS84WDICT-ND	4.40	33.00	3,000	165.00/M
Dual P-Channel							
Enhance., –50V, –0.130A	10Ω	SOT-363	BSS84DWDICT-ND	5.94	44.55	3,000	235.00/M
N-Channel/P-Channel Array							
Enhance. Array, 60V, 0.115A Enhance. Array, –50V, –0.130A	10Ω	SOT-363	BSS8402DWDICT-ND* *NEW!*	5.94	44.55	3,000	235.00/M

* See drawing on previous page for pin layout. ** For Tape & Reel Part No., change CT to TR.

Pre-Biased Small Signal Transistors

SOT-363

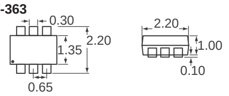


Fig. 1

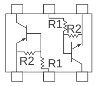


Fig. 2

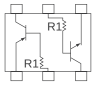


Fig. 3

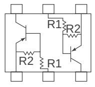


Fig. 4

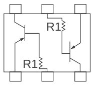


Fig. 5

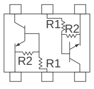


Fig. 6

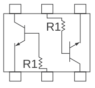


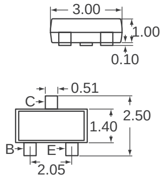
Fig.	Hfe Gain	R1 Ω	Nom	R2 Ω	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing ** 3,000
Complimentary NPN/PNP SOT-363									
1	100	10K		10K	DCX114EUDICT-ND	.55	4.20	30.24	143.00/M
		10K		47K	DCX114YUDICT-ND	.55	4.20	30.24	143.00/M
1	100	2.2K		47K	DCX123JUDICT-ND	.55	4.20	30.24	143.00/M
		22K		22K	DCX124EUDICT-ND	.55	4.20	30.24	143.00/M
		47K		47K	DCX144EUDICT-ND	.55	4.20	30.24	143.00/M
2	100	4.7K		—	DCX143TUDICT-ND	.55	4.20	30.24	143.00/M
Dual PNP SOT-363									
3	100	10K		10K	DDA114EUDICT-ND	.47	3.60	25.92	122.00/M
		10K		47K	DDA114YUDICT-ND	.47	3.60	25.92	122.00/M
		2.2K		47K	DDA123JUDICT-ND	.47	3.60	25.92	122.00/M
		22K		22K	DDA124EUDICT-ND	.47	3.60	25.92	122.00/M
		47K		47K	DDA144EUDICT-ND	.47	3.60	25.92	122.00/M
4	100	10K		—	DDA114TUDICT-ND	.47	3.60	25.92	122.00/M
		4.7K		—	DDA143TUDICT-ND	.47	3.60	25.92	122.00/M
Dual NPN SOT-363									
5	100	10K		10K	DDC114EUDICT-ND	.47	3.60	25.92	122.00/M
		10K		47K	DDC114YUDICT-ND	.47	3.60	25.92	122.00/M
		2.2K		47K	DDC123JUDICT-ND	.47	3.60	25.92	122.00/M
		22K		22K	DDC124EUDICT-ND	.47	3.60	25.92	122.00/M
		47K		47K	DDC144EUDICT-ND	.47	3.60	25.92	122.00/M
6	100	10K		—	DDC114TUDICT-ND	.47	3.60	25.92	122.00/M
		4.7K		—	DDC143TUDICT-ND	.47	3.60	25.92	122.00/M

** For Tape & Reel Part No., change CT to TR.

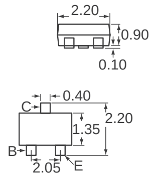
Pre-Biased Transistors

Features: • Epitaxial Planar Die Construction **Mechanical Data:** • Case Material - UL Flammability Rating 94V-0 • Terminals: Solderable per MIL-STD-202, Method 208

SOT-23



SOT-323



SOT-523 *NEW!*

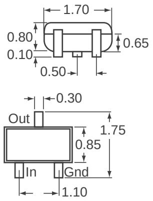


Fig. 1

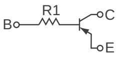


Fig. 2

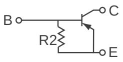


Fig. 3

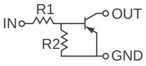


Fig. 4

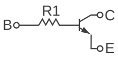


Fig. 5

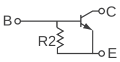


Fig. 6

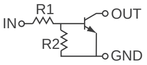


Fig.	Power Dissi-pation (mW)	I_C Max. (mA)	Hfe Gain	R1 Ω	Nom	R2 Ω	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing** 3,000
PNP SOT-23											
1	200	–100	100	1K		—	DDTA113TCADICT-ND	.41	3.00	21.12	86.00/M
				2.2K		—	DDTA123TCADICT-ND	.41	3.00	21.12	86.00/M
				4.7K		—	DDTA143TCADICT-ND	.41	3.00	21.12	86.00/M
				10K		—	DDTA114TCADICT-ND	.41	3.00	21.12	86.00/M
				22K		—	DDTA124TCADICT-ND	.41	3.00	21.12	86.00/M
				47K		—	DDTA144TCADICT-ND	.41	3.00	21.12	86.00/M
				100K		—	DDTA115TCADICT-ND	.41	3.00	21.12	86.00/M
				200K		—	DDTA125TCADICT-ND	.41	3.00	21.12	86.00/M
2	200	–100	30	—		10K	DDTA114GCADICT-ND	.41	3.00	21.12	86.00/M
			56	—		22K	DDTA124GCADICT-ND	.41	3.00	21.12	86.00/M
			68	—		47K	DDTA144GCADICT-ND	.41	3.00	21.12	86.00/M
			82	—		100K	DDTA115GCADICT-ND	.41	3.00	21.12	86.00/M
3	200	–100	–20	2.2K		2.2K	DDTA123ECADICT-ND	.41	3.00	21.12	86.00/M
			–20	4.7K		4.7K	DDTA143ECADICT-ND	.41	3.00	21.12	86.00/M
			–24	10K		4.7K	DDTA114WCADICT-ND	.41	3.00	21.12	86.00/M
			–30	4.7K		10K	DDTA143XCADICT-ND	.41	3.00	21.12	86.00/M
			–30	10K		10K	DDTA114ECADICT-ND	.41	3.00	21.12	86.00/M
			–33	1K		10K	DDTA113ZCADICT-ND	.41	3.00	21.12	86.00/M
			–33	2.2K		10K	DDTA123YCADICT-ND	.41	3.00	21.12	86.00/M
			–33	47K		10K	DDTA144VCADICT-ND	.41	3.00	21.12	86.00/M
			–56	22K		22K	DDTA124ECADICT-ND	.41	3.00	21.12	86.00/M
			–56	47K		22K	DDTA144WCADICT-ND	.41	3.00	21.12	86.00/M
			–68	10K		47K	DDTA114YCADICT-ND	.41	3.00	21.12	86.00/M
			–68	22K		47K	DDTA124XCADICT-ND	.41	3.00	21.12	86.00/M
			–68	47K		47K	DDTA144ECADICT-ND	.41	3.00	21.12	86.00/M
			–80	2.2K		47K	DDTA123JCADICT-ND	.41	3.00	21.12	86.00/M
			–80	4.7K		47K	DDTA143ZCADICT-ND	.41	3.00	21.12	86.00/M
			–82	100K		100K	DDTA115ECADICT-ND	.41	3.00	21.12	86.00/M
PNP SOT-323											
1	200	–100	100	1K		—	DDTA113TUADICT-ND	.41	3.00	21.12	86.00/M
				2.2K		—	DDTA123TUADICT-ND	.41	3.00	21.12	86.00/M
				4.7K		—	DDTA143TUADICT-ND	.41	3.00	21.12	86.00/M
				10K		—	DDTA114TUADICT-ND	.41	3.00	21.12	86.00/M
				22K		—	DDTA124TUADICT-ND	.41	3.00	21.12	86.00/M
				100K		—	DDTA115TUADICT-ND	.41	3.00	21.12	86.00/M
				200K		—	DDTA125TUADICT-ND	.41	3.00	21.12	86.00/M
2	200	–100	30	—		10K	DDTA114GUADICT-ND	.41	3.00	21.12	86.00/M
			56	—		22K	DDTA124GUADICT-ND	.41	3.00	21.12	86.00/M
			68	—		47K	DDTA144GUADICT-ND	.41	3.00	21.12	86.00/M
			82	—		100K	DDTA115GUADICT-ND	.41	3.00	21.12	86.00/M

** For Tape & Reel Part No., change CT to TR.

(Continued)

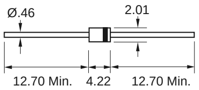
DIODES Pre-Biased Transistors *(Cont.)*

Fig.	Power Dissi-pation (mW)	I_C Max. (mA)	Hfe Gain	R1 Ω Nom	R2 Ω	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing** 3,000
PNP SOT-323 (Cont.)										
3	200	–100	–33	1K	10K	DDTA113ZUADICT-ND	.41	3.00	21.12	86.00/M
			–20	2.2K	2.2K	DDTA123EUADICT-ND	.41	3.00	21.12	86.00/M
			–33	2.2K	10K	DDTA123YUADICT-ND	.41	3.00	21.12	86.00/M
			–80	2.2K	47K	DDTA123JUADICT-ND	.41	3.00	21.12	86.00/M
			–20	4.7K	4.7K	DDTA143EUADICT-ND	.41	3.00	21.12	86.00/M
			–30	4.7K	10K	DDTA143XUADICT-ND	.41	3.00	21.12	86.00/M
			–68	4.7K	22K	DDTA143FUADICT-ND	.41	3.00	21.12	86.00/M
			–80	4.7K	47K	DDTA143ZUADICT-ND	.41	3.00	21.12	86.00/M
			–24	10K	4.7K	DDTA114WUADICT-ND	.41	3.00	21.12	86.00/M
			–30	10K	10K	DDTA114EUADICT-ND	.41	3.00	21.12	86.00/M
			–68	10K	47K	DDTA114YUADICT-ND	.41	3.00	21.12	86.00/M
			–68	22K	47K	DDTA124XUADICT-ND	.41	3.00	21.12	86.00/M
			–33	47K	10K	DDTA144VUADICT-ND	.41	3.00	21.12	86.00/M
			–56	47K	22K	DDTA144WUADICT-ND	.41	3.00	21.12	86.00/M
			–68	47K	47K	DDTA144EUADICT-ND	.41	3.00	21.12	86.00/M
			–82	100K	100K	DDTA115EUADICT-ND	.41	3.00	21.12	86.00/M
NEW! PNP SOT-523 NEW!										
1	150	100	250	1K	—	DDTA113TEDICT-ND	.39	3.00	21.60	102.00/M
				4.7K	—	DDTA143TEDICT-ND	.39	3.00	21.60	102.00/M
				47K	—	DDTA144TEDICT-ND	.39	3.00	21.60	102.00/M
2	150	100	68	—	47K	DDTA144GEDICT-ND	.39	3.00	21.60	102.00/M
3	150	100	–30	4.7K	10K	DDTA143XEDICT-ND	.39	3.00	21.60	102.00/M
			–68	4.7K	22K	DDTA143FEDICT-ND	.39	3.00	21.60	102.00/M
			–80	4.7K	47K	DDTA143ZEDICT-ND	.39	3.00	21.60	102.00/M
			–33	47K	10K	DDTA144VEDICT-ND	.39	3.00	21.60	102.00/M
			–56	47K	22K	DDTA144WEDICT-ND	.39	3.00	21.60	102.00/M
			–68	47K	47K	DDTA144EEDICT-ND	.39	3.00	21.60	102.00/M
NPN SOT-23										
4	200	100	100	1K	—	DDTC113TCADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TCADICT-ND	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TCADICT-ND	.41	3.00	21.12	86.00/M
				10K	—	DDTC114TCADICT-ND	.41	3.00	21.12	86.00/M
				22K	—	DDTC124TCADICT-ND	.41	3.00	21.12	86.00/M
				47K	—	DDTC144TCADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TCADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TCADICT-ND	.41	3.00	21.12	86.00/M
5	200	100	30	—	10K	DDTC114GCADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GCADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GCADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GCADICT-ND	.41	3.00	21.12	86.00/M
6	200	100	20	2.2K	2.2K	DDTC123ECADICT-ND	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTC143ECADICT-ND	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTC114WCADICT-ND	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTC143XCADICT-ND	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTC114ECADICT-ND	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTC113ZCADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTC123YCADICT-ND	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTC144VCADICT-ND	.41	3.00	21.12	86.00/M
			56	22K	22K	DDTC124ECADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WCADICT-ND	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTC143FCADICT-ND	.41	3.00	21.12	86.00/M
			68	10K	47K	DDTC114YCADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTC124XCADICT-ND	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTC144ECADICT-ND	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JCADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZCADICT-ND	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTC115ECADICT-ND	.41	3.00	21.12	86.00/M
NPN SOT-323										
4	200	100	100	1K	—	DDTC113TUADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TUADICT-ND	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TUADICT-ND	.41	3.00	21.12	86.00/M
				10K	—	DDTC114TUADICT-ND	.41	3.00	21.12	86.00/M
				22K	—	DDTC124TUADICT-ND	.41	3.00	21.12	86.00/M
				47K	—	DDTC144TUADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TUADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TUADICT-ND	.41	3.00	21.12	86.00/M
5	200	100	30	—	10K	DDTC114GUADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GUADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GUADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GUADICT-ND	.41	3.00	21.12	86.00/M
6	200	100	20	2.2K	2.2K	DDTC123EUADICT-ND	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTC143EUADICT-ND	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTC114EUADICT-ND	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTC144EUADICT-ND	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTC115EUADICT-ND	.41	3.00	21.12	86.00/M
			33	1K	10KΩ	DDTC113ZUADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10KΩ	DDTC123YUADICT-ND	.41	3.00	21.12	86.00/M
			80	2.2K	47KΩ	DDTC123JUADICT-ND	.41	3.00	21.12	86.00/M
			30	4.7K	10KΩ	DDTC143XUADICT-ND	.41	3.00	21.12	86.00/M
			68	4.7K	22KΩ	DDTC143FUADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZUADICT-ND	.41	3.00	21.12	86.00/M
			68	10K	4.7K	DDTC114WUADICT-ND	.41	3.00	21.12	86.00/M
			24	10K	47K	DDTC114YUADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTC124XUADICT-ND	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTC144VUADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WUADICT-ND	.41	3.00	21.12	86.00/M
NEW! NPN SOT-523 NEW!										
4	150	100	250	1K	—	DDTC113TEDICT-ND	.39	3.00	21.60	102.00/M
				2.2K	—	DDTC123TEDICT-ND	.39	3.00	21.60	102.00/M
				4.7K	—	DDTC143TEDICT-ND	.39	3.00	21.60	102.00/M
				10K	—	DDTC114TEDICT-ND	.39	3.00	21.60	102.00/M
				22K	—	DDTC124TEDICT-ND	.39	3.00	21.60	102.00/M
				47K	—	DDTC144TEDICT-ND	.39	3.00	21.60	102.00/M
				100K	—	DDTC115TEDICT-ND	.39	3.00	21.60	102.00/M
				200K	—	DDTC125TEDICT-ND	.39	3.00	21.60	102.00/M
5	150	100	30	—	10K	DDTC114GEDICT-ND	.39	3.00	21.60	102.00/M
			56	—	22K	DDTC124GEDICT-ND	.39	3.00	21.60	102.00/M
			68	—	47K	DDTC144GEDICT-ND	.39	3.00	21.60	102.00/M
			82	—	100K	DDTC115GEDICT-ND	.39	3.00	21.60	102.00/M
6	150	100	33	1K	10K	DDTC113ZEDICT-ND	.39	3.00	21.60	102.00/M
			33	2.2K	10K	DDTC123YEDICT-ND	.39	3.00	21.60	102.00/M
6	150	100	80	2.2K	47K	DDTC123JEDICT-ND	.39	3.00	21.60	102.00/M
			30	4.7K	10K	DDTC143XEDICT-ND	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTC143FEDICT-ND	.39	3.00	21.60	102.00/M
			80	4.7K	47K	DDTC143ZEDICT-ND	.39	3.00	21.60	102.00/M
			24	10K	4.7K	DDTC114WEDICT-ND	.39	3.00	21.60	102.00/M
			68	10K	47K	DDTC114YEDICT-ND	.39	3.00	21.60	102.00/M
			68	22K	47K	DDTC124XEDICT-ND	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTC144VEDICT-ND	.39	3.00	21.60	102.00/M
			56	47K	22K	DDTC144WEDICT-ND	.39	3.00	21.60	102.00/M
			20	2.2K	2.2K	DDTC123EEDICT-ND	.39	3.00	21.60	102.00/M
			20	4.7K	4.7K	DDTC143EEDICT-ND	.39	3.00	21.60	102.00/M
			30	10K	10K	DDTC114EEDICT-ND	.39	3.00	21.60	102.00/M
			68	47K	47K	DDTC144EEDICT-ND	.39	3.00	21.60	102.00/M
			82	100K	100K	DDTC115EEDICT-ND	.39	3.00	21.60	102.00/M

** For Tape & Reel Part No., change CT to TR.

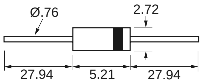
Zener Diodes

DO-35 Zener Diodes — 500mW (+5%)



Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max. Dynamic Impedance ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 10,000
3.3	20	28	1N5226BDICT-ND	.36	2.10	13.65	56.70	1N5226BDITR-ND	36.00/M
3.6	20	24	1N5227BDICT-ND	.36	2.10	13.65	56.70	1N5227BDITR-ND	36.00/M
3.9	20	23	1N5228BDICT-ND	.36	2.10	13.65	56.70	1N5228BDITR-ND	36.00/M
4.3	20	22	1N5229BDICT-ND	.36	2.10	13.65	56.70	1N5229BDITR-ND	36.00/M
4.7	20	19	1N5230BDICT-ND	.36	2.10	13.65	56.70	1N5230BDITR-ND	36.00/M
5.1	20	17	1N5231BDICT-ND	.36	2.10	13.65	56.70	1N5231BDITR-ND	36.00/M
5.6	20	11	1N5232BDICT-ND	.36	2.10	13.65	56.70	1N5232BDITR-ND	36.00/M
6.0	20	7	1N5233BDICT-ND	.36	2.10	13.65	56.70	1N5233BDITR-ND	36.00/M
6.2	20	7	1N5234BDICT-ND	.36	2.10	13.65	56.70	1N5234BDITR-ND	36.00/M
6.8	20	5	1N5235BDICT-ND	.36	2.10	13.65	56.70	1N5235BDITR-ND	36.00/M
7.5	20	6	1N5236BDICT-ND	.36	2.10	13.65	56.70	1N5236BDITR-ND	36.00/M
8.2	20	8	1N5237BDICT-ND	.36	2.10	13.65	56.70	1N5237BDITR-ND	36.00/M
8.7	20	8	1N5238BDICT-ND	.36	2.10	13.65	56.70	1N5238BDITR-ND	36.00/M
9.1	20	10	1N5239BDICT-ND	.36	2.10	13.65	56.70	1N5239BDITR-ND	36.00/M
10	20	17	1N5240BDICT-ND	.36	2.10	13.65	56.70	1N5240BDITR-ND	36.00/M
11	20	22	1N5241BDICT-ND	.36	2.10	13.65	56.70	1N5241BDITR-ND	36.00/M
12	20	30	1N5242BDICT-ND	.36	2.10	13.65	56.70	1N5242BDITR-ND	36.00/M
13	9.5	13	1N5243BDICT-ND	.36	2.10	13.65	56.70	1N5243BDITR-ND	36.00/M
14	9.0	15	1N5244BDICT-ND	.36	2.10	13.65	56.70	1N5244BDITR-ND	36.00/M
15	8.5	16	1N5245BDICT-ND	.36	2.10	13.65	56.70	1N5245BDITR-ND	36.00/M
16	7.8	17	1N5246BDICT-ND	.36	2.10	13.65	56.70	1N5246BDITR-ND	36.00/M
17	7.4	19	1N5247BDICT-ND	.36	2.10	13.65	56.70	1N5247BDITR-ND	36.00/M
18	7.0	21	1N5248BDICT-ND	.36	2.10	13.65	56.70	1N5248BDITR-ND	36.00/M
19	6.6	23	1N5249BDICT-ND	.36	2.10	13.65	56.70	1N5249BDITR-ND	36.00/M
20	6.2	25	1N5250BDICT-ND	.36	2.10	13.65	56.70	1N5250BDITR-ND	36.00/M
22	5.6	29	1N5251BDICT-ND	.36	2.10	13.65	56.70	1N5251BDITR-ND	36.00/M
24	5.2	33	1N5252BDICT-ND	.36	2.10	13.65	56.70	1N5252BDITR-ND	36.00/M
25	5.0	35	1N5253BDICT-ND	.36	2.10	13.65	56.70	1N5253BDITR-ND	36.00/M
27	4.6	41	1N5254BDICT-ND	.36	2.10	13.65	56.70	1N5254BDITR-ND	36.00/M
28	4.5	44	1N5255BDICT-ND	.36	2.10	13.65	56.70	1N5255BDITR-ND	36.00/M
30	4.2	49	1N5256BDICT-ND	.36	2.10	13.65	56.70	1N5256BDITR-ND	36.00/M
33	3.8	58	1N5257BDICT-ND	.36	2.10	13.65	56.70	1N5257BDITR-ND	36.00/M
36	3.4	70	1N5258BDICT-ND	.36	2.10	13.65	56.70	1N5258BDITR-ND	36.00/M
39	3.2	80	1N5259BDICT-ND	.36	2.10	13.65	56.70	1N5259BDITR-ND	36.00/M
43	3.0	93	1N5260BDICT-ND	.36	2.10	13.65	56.70	1N5260BDITR-ND	36.00/M
47	2.7	105	1N5261BDICT-ND	.36	2.10	13.65	56.70	1N5261BDITR-ND	36.00/M
51	2.5	125	1N5262BDICT-ND	.36	2.10	13.65	56.70	1N5262BDITR-ND	36.00/M

DO-41 Zener Diodes — 1W (+5%)

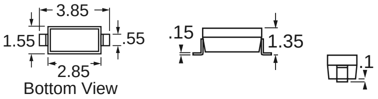


Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 5,000
3.3	76	10.0	1N4728ADICT-ND	.36	2.48	17.16	75.90	1N4728ADITR-ND	59.00/M
3.6	69	10.0	1N4729ADICT-ND	.36	2.48	17.16	75.90	1N4729ADITR-ND	59.00/M
3.9	64	9.0	1N4730ADICT-ND	.36	2.48	17.16	75.90	1N4730ADITR-ND	59.00/M
4.3	58	9.0	1N4731ADICT-ND	.36	2.48	17.16	75.90	1N4731ADITR-ND	59.00/M
4.7	53	8.0	1N4732ADICT-ND	.36	2.48	17.16	75.90	1N4732ADITR-ND	59.00/M
5.1	49	7.0	1N4733ADICT-ND	.36	2.48	17.16	75.90	1N4733ADITR-ND	59.00/M
5.6	45	5.0	1N4734ADICT-ND	.36	2.48	17.16	75.90	1N4734ADITR-ND	59.00/M
6.2	41	2.0	1N4735ADICT-ND	.36	2.48	17.16	75.90	1N4735ADITR-ND	59.00/M
6.8	37	3.5	1N4736ADICT-ND	.36	2.48	17.16	75.90	1N4736ADITR-ND	59.00/M
7.5	34	4.0	1N4737ADICT-ND	.36	2.48	17.16	75.90	1N4737ADITR-ND	59.00/M
8.2	31	4.5	1N4738ADICT-ND	.36	2.48	17.16	75.90	1N4738ADITR-ND	59.00/M
9.1	28	5.0	1N4739ADICT-ND	.36	2.48	17.16	75.90	1N4739ADITR-ND	59.00/M
10	25	7.0	1N4740ADICT-ND	.36	2.48	17.16	75.90	1N4740ADITR-ND	59.00/M
11	23	8	1N4741ADICT-ND	.36	2.48	17.16	75.90	1N4741ADITR-ND	59.00/M
12	21	9	1N4742ADICT-ND	.36	2.48	17.16	75.90	1N4742ADITR-ND	59.00/M
13	19	10	1N4743ADICT-ND	.36	2.48	17.16	75.90	1N4743ADITR-ND	59.00/M
15	17	14	1N4744ADICT-ND	.36	2.48	17.16	75.90	1N4744ADITR-ND	59.00/M
16	15	16	1N4745ADICT-ND	.36	2.48	17.16	75.90	1N4745ADITR-ND	59.00/M
18	14	20	1N4746ADICT-ND	.36	2.48	17.16	75.90	1N4746ADITR-ND	59.00/M
20	12.5	22	1N4747ADICT-ND	.36	2.48	17.16	75.90	1N4747ADITR-ND	59.00/M
22	11.5	23	1N4748ADICT-ND	.36	2.48	17.16	75.90	1N4748ADITR-ND	59.00/M
24	10.5	25	1N4749ADICT-ND	.36	2.48	17.16	75.90	1N4749ADITR-ND	59.00/M
27	9.5	35	1N4750ADICT-ND	.36	2.48	17.16	75.90	1N4750ADITR-ND	59.00/M
30	8.5	40	1N4751ADICT-ND	.36	2.48	17.16	75.90	1N4751ADITR-ND	59.00/M
33	7.5	45	1N4752ADICT-ND	.36	2.48	17.16	75.90	1N4752ADITR-ND	59.00/M
36	7	50	1N4753ADICT-ND	.36	2.48	17.16	75.90	1N4753ADITR-ND	59.00/M
39	6.5	60	1N4754ADICT-ND	.36	2.48	17.16	75.90	1N4754ADITR-ND	59.00/M
43	6	70	1N4755ADICT-ND	.36	2.48	17.16	75.90	1N4755ADITR-ND	59.00/M
47	55	80	1N4756ADICT-ND	.36	2.48	17.16	75.90	1N4756ADITR-ND	59.00/M
51	5	95	1N4757ADICT-ND	.36	2.48	17.16	75.90	1N4757ADITR-ND	59.00/M
56	4.5	110	1N4758ADICT-ND	.36	2.48	17.16	75.90	1N4758ADITR-ND	59.00/M
62	4	125	1N4759ADICT-ND	.36	2.48	17.16	75.90	1N4759ADITR-ND	59.00/M
68	3.7	150	1N4760ADICT-ND	.36	2.48	17.16	75.90	1N4760ADITR-ND	59.00/M
75	3.3	175	1N4761ADICT-ND	.36	2.48	17.16	75.90	1N4761ADITR-ND	59.00/M

(Continued)

DIODES INCORPORATED Zener Diodes *(Cont.)*

SOD-123 Surface Mount Zener Diodes — 500mW

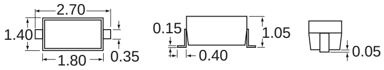


Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max. Dynamic Impedance ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZT Series								
2.4	5	100	BZT52C2V4-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C2V4-7DITR-ND BZT52C2V4-13DITR-ND	90.00/M 78.00/M†
2.7	5	100	BZT52C2V7-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C2V7-7DITR-ND BZT52C2V7-13DITR-ND	90.00/M 78.00/M†
3.0	5	95	BZT52C3V0-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C3V0-7DITR-ND BZT52C3V0-13DITR-ND	90.00/M 78.00/M†
3.3	5	95	BZT52C3V3-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C3V3-7DITR-ND BZT52C3V3-13DITR-ND	90.00/M 78.00/M†
3.6	5	90	BZT52C3V6-7DICT-ND —	3.44 —	24.20 —	110.00 —	BZT52C3V6-7DITR-ND BZT52C3V6-13DITR-ND	99.00/M 85.00/M†
3.9	5.0	95	BZT52C3V9-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C3V9-7DITR-ND BZT52C3V9-13DITR-ND	90.00/M 78.00/M†
4.3	5.0	95	BZT52C4V3-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C4V3-7DITR-ND BZT52C4V3-13DITR-ND	90.00/M 78.00/M†
4.7	5	80	BZT52C4V7-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C4V7-7DITR-ND BZT52C4V7-13DITR-ND	90.00/M 78.00/M†
5.1	5.0	60	BZT52C5V1-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C5V1-7DITR-ND BZT52C5V1-13DITR-ND	90.00/M 78.00/M†
5.6	5.0	40	BZT52C5V6-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C5V6-7DITR-ND BZT52C5V6-13DITR-ND	90.00/M 78.00/M†
6.2	5.0	10	BZT52C6V2-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C6V2-7DITR-ND BZT52C6V2-13DITR-ND	90.00/M 78.00/M†
6.8	5.0	15	BZT52C6V8-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C6V8-7DITR-ND BZT52C6V8-13DITR-ND	90.00/M 78.00/M†
7.5	5.0	7	BZT52C7V5-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C7V5-7DITR-ND BZT52C7V5-13DITR-ND	90.00/M 78.00/M†
8.2	5.0	15	BZT52C8V2-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C8V2-7DITR-ND BZT52C8V2-13DITR-ND	90.00/M 78.00/M†
9.1	5.0	15	BZT52C9V1-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C9V1-7DITR-ND BZT52C9V1-13DITR-ND	90.00/M 78.00/M†
10.0	5.0	15	BZT52C10-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C10-7DITR-ND BZT52C10-13DITR-ND	90.00/M 78.00/M†
11	5.0	20	BZT52C11-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C11-7DITR-ND BZT52C11-13DITR-ND	90.00/M 78.00/M†
12.0	5.0	20	BZT52C12-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C12-7DITR-ND BZT52C12-13DITR-ND	90.00/M 78.00/M†
13	5.0	30	BZT52C13-7DICT-ND	3.13	22.00	100.00	BZT52C13-7DITR-ND	90.00/M
15	5.0	30	BZT52C15-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C15-7DITR-ND BZT52C15-13DITR-ND	90.00/M 78.00/M†
16	5.0	40	BZT52C16-7DICT-ND —	3.44 —	24.20 —	110.00 —	BZT52C16-7DITR-ND BZT52C16-13DITR-ND	99.00/M 78.00/M†
18	5.0	45	BZT52C18-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C18-7DITR-ND BZT52C18-13DITR-ND	90.00/M 78.00/M†
20.0	5.0	50	BZT52C20-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C20-7DITR-ND BZT52C20-13DITR-ND	90.00/M 78.00/M†
22	5.0	55	BZT52C22-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C22-7DITR-ND BZT52C22-13DITR-ND	90.00/M 78.00/M†
24	5.0	70	BZT52C24-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C24-7DITR-ND BZT52C24-13DITR-ND	90.00/M 78.00/M†
27.0	5.0	80	BZT52C27-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C27-7DITR-ND BZT52C27-13DITR-ND	90.00/M 78.00/M†
30	2.0	80	BZT52C30-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C30-7DITR-ND BZT52C30-13DITR-ND	90.00/M 78.00/M†
33	2.0	80	BZT52C33-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C33-7DITR-ND BZT52C33-13DITR-ND	90.00/M 78.00/M†
36	2.0	90	BZT52C36-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C36-7DITR-ND BZT52C36-13DITR-ND	90.00/M 78.00/M†
39	2.0	130	BZT52C39-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C39-7DITR-ND BZT52C39-13DITR-ND	90.00/M 78.00/M†
43	5.0	100	BZT52C43-7DICT-ND —	3.13 —	22.00 —	100.00 —	BZT52C43-7DITR-ND BZT52C43-13DITR-ND	90.00/M 78.00/M†
47	5.0	100	BZT52C47-7DICT-ND	3.13	22.00	100.00	BZT52C47-7DITR-ND	90.00/M
51	5.0	100	BZT52C51-7DICT-ND	3.13	22.00	100.00	BZT52C51-7DITR-ND	90.00/M

† Tape and Reel pricing is priced per 10,000.

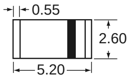
Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max. Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
MMSZ Series								
2.4	20	30	MMSZ5221BDICT-ND	3.13	22.00	100.00	MMSZ5221BDITR-ND	90.00/M
2.7	20	30	MMSZ5223BDICT-ND	3.13	22.00	100.00	MMSZ5223BDITR-ND	90.00/M
3.0	20	30	MMSZ5225BDICT-ND	3.13	22.00	100.00	MMSZ5225BDITR-ND	90.00/M
3.3	20	28	MMSZ5226BDICT-ND	3.13	22.00	100.00	MMSZ5226BDITR-ND	90.00/M
3.6	20	24	MMSZ5227BDICT-ND	3.13	22.00	100.00	MMSZ5227BDITR-ND	90.00/M
3.9	20	23	MMSZ5228BDICT-ND	3.13	22.00	100.00	MMSZ5228BDITR-ND	90.00/M
4.3	20	22	MMSZ5229BDICT-ND	3.13	22.00	100.00	MMSZ5229BDITR-ND	90.00/M
4.7	20	19	MMSZ5230BDICT-ND	3.13	22.00	100.00	MMSZ5230BDITR-ND	90.00/M
5.1	20	17	MMSZ5231BDICT-ND	3.13	22.00	100.00	MMSZ5231BDITR-ND	90.00/M
5.6	20	11	MMSZ5232BDICT-ND	3.13	22.00	100.00	MMSZ5232BDITR-ND	90.00/M
6.2	20	7	MMSZ5234BDICT-ND	3.13	22.00	100.00	MMSZ5234BDITR-ND	90.00/M
6.8	20	5	MMSZ5235BDICT-ND	3.13	22.00	100.00	MMSZ5235BDITR-ND	90.00/M
7.5	20	6	MMSZ5236BDICT-ND	3.13	22.00	100.00	MMSZ5236BDITR-ND	90.00/M
8.2	20	8	MMSZ5237BDICT-ND	3.13	22.00	100.00	MMSZ5237BDITR-ND	90.00/M
9.1	20	10	MMSZ5239BDICT-ND	3.13	22.00	100.00	MMSZ5239BDITR-ND	90.00/M
10	20	17	MMSZ5240BDICT-ND	3.13	22.00	100.00	MMSZ5240BDITR-ND	90.00/M
11	20	22	MMSZ5241BDICT-ND	3.13	22.00	100.00	MMSZ5241BDITR-ND	90.00/M
12	20	30	MMSZ5242BDICT-ND	3.13	22.00	100.00	MMSZ5242BDITR-ND	90.00/M
13	9.5	13	MMSZ5243BDICT-ND	3.13	22.00	100.00	MMSZ5243BDITR-ND	90.00/M
15	8.5	16	MMSZ5245BDICT-ND	3.13	22.00	100.00	MMSZ5245BDITR-ND	90.00/M
16	7.8	17	MMSZ5246BDICT-ND	3.13	22.00	100.00	MMSZ5246BDITR-ND	90.00/M
18	7.0	21	MMSZ5248BDICT-ND	3.13	22.00	100.00	MMSZ5248BDITR-ND	90.00/M
20	6.2	25	MMSZ5250BDICT-ND	3.13	22.00	100.00	MMSZ5250BDITR-ND	90.00/M
22	5.6	29	MMSZ5251BDICT-ND	3.13	22.00	100.00	MMSZ5251BDITR-ND	90.00/M
24	5.2	33	MMSZ5252BDICT-ND	3.13	22.00	100.00	MMSZ5252BDITR-ND	90.00/M
27	5.0	41	MMSZ5254BDICT-ND	3.13	22.00	100.00	MMSZ5254BDITR-ND	90.00/M
28	4.5	44	MMSZ5255BDICT-ND	3.13	22.00	100.00	MMSZ5255BDITR-ND	90.00/M
30	4.2	49	MMSZ5256BDICT-ND	3.13	22.00	100.00	MMSZ5256BDITR-ND	90.00/M
33	3.8	58	MMSZ5257BDICT-ND	3.13	22.00	100.00	MMSZ5257BDITR-ND	90.00/M
36	3.4	70	MMSZ5258BDICT-ND	3.13	22.00	100.00	MMSZ5258BDITR-ND	90.00/M
39	3.2	80	MMSZ5259BDICT-ND	3.13	22.00	100.00	MMSZ5259BDITR-ND	90.00/M

SOD-323 Surface Mount Zener Diodes — 200mW



Zener Volt VZ @ IZT Nom	Test Curr. iZT (mA)	Max. Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZT Series								
2.4	5	100	BZT52C2V4SDICT-ND	.47	3.44	24.20	BZT52C2V4SDITR-ND	99.00/M
2.7	5	100	BZT52C2V7SDICT-ND	.47	3.44	24.20	BZT52C2V7SDITR-ND	99.00/M
3.0	5	95	BZT52C3V0SDICT-ND	.47	3.44	24.20	BZT52C3V0SDITR-ND	99.00/M
3.3	5	95	BZT52C3V3SDICT-ND	.47	3.44	24.20	BZT52C3V3SDITR-ND	99.00/M
3.6	5	90	BZT52C3V6SDICT-ND	.47	3.44	24.20	BZT52C3V6SDITR-ND	99.00/M
3.9	5	90	BZT52C3V9SDICT-ND	.47	3.44	24.20	BZT52C3V9SDITR-ND	99.00/M
4.3	5	90	BZT52C4V3SDICT-ND	.47	3.44	24.20	BZT52C4V3SDITR-ND	99.00/M
4.7	5	80	BZT52C4V7SDICT-ND	.47	3.44	24.20	BZT52C4V7SDITR-ND	99.00/M
5.1	5	60	BZT52C5V1SDICT-ND	.47	3.44	24.20	BZT52C5V1SDITR-ND	99.00/M
5.6	5	40	BZT52C5V6SDICT-ND	.47	3.44	24.20	BZT52C5V6SDITR-ND	99.00/M
6.2	5	10	BZT52C6V2SDICT-ND	.47	3.44	24.20	BZT52C6V2SDITR-ND	99.00/M
6.8	5	15	BZT52C6V8SDICT-ND	.47	3.44	24.20	BZT52C6V8SDITR-ND	99.00/M
7.5	5	15	BZT52C7V5SDICT-ND	.47	3.44	24.20	BZT52C7V5SDITR-ND	99.00/M
8.2	5	15	BZT52C8V2SDICT-ND	.47	3.44	24.20	BZT52C8V2SDITR-ND	99.00/M
9.1	5	15	BZT52C9V1SDICT-ND	.47	3.44	24.20	BZT52C9V1SDITR-ND	99.00/M
10	5	20	BZT52C10SDICT-ND	.47	3.44	24.20	BZT52C10SDITR-ND	99.00/M
11	5	20	BZT52C11SDICT-ND	.47	3.44	24.20	BZT52C11SDITR-ND	99.00/M
12	5	25	BZT52C12SDICT-ND	.47	3.44	24.20	BZT52C12SDITR-ND	99.00/M
13	5	30	BZT52C13SDICT-ND	.47	3.44	24.20	BZT52C13SDITR-ND	99.00/M
15	5	30	BZT52C15SDICT-ND	.47	3.44	24.20	BZT52C15SDITR-ND	99.00/M
16	5	40	BZT52C16SDICT-ND	.47	3.44	24.20	BZT52C16SDITR-ND	99.00/M
18	5	45	BZT52C18SDICT-ND	.47	3.44	24.20	BZT52C18SDITR-ND	99.00/M
20	5	55	BZT52C20SDICT-ND	.47	3.44	24.20	BZT52C20SDITR-ND	99.00/M
22	5	55	BZT52C22SDICT-ND	.47	3.44	24.20	BZT52C22SDITR-ND	99.00/M
24	5	70	BZT52C24SDICT-ND	.47	3.44	24.20	BZT52C24SDITR-ND	99.00/M
27	2	80	BZT52C27SDICT-ND	.47	3.44	24.20	BZT52C27SDITR-ND	99.00/M
30	2	80	BZT52C30SDICT-ND	.47	3.44	24.20	BZT52C30SDITR-ND	99.00/M
33	2	80	BZT52C33SDICT-ND	.47	3.44	24.20	BZT52C33SDITR-ND	99.00/M
36	2	90	BZT52C36SDICT-ND	.47	3.44	24.20	BZT52C36SDITR-ND	99.00/M
39	2	130	BZT52C39SDICT-ND	.47	3.44	24.20	BZT52C39SDITR-ND	99.00/M
MMSZ Series								
2.4	20	30	MMSZ5221BSDICT-ND	.47	3.44	24.20	MMSZ5221BSDITR-ND	99.00/M
3.0	20	30	MMSZ5225BSDICT-ND	.47	3.44	24.20	MMSZ5225BSDITR-ND	99.00/M
3.3	20	28	MMSZ5226BSDICT-ND	.47	3.44	24.20	MMSZ5226BSDITR-ND	99.00/M
3.6	20	24	MMSZ5227BSDICT-ND	.47	3.44	24.20	MMSZ5227BSDITR-ND	99.00/M
3.9	20	23	MMSZ5228BSDICT-ND	.47	3.44	24.20	MMSZ5228BSDITR-ND	99.00/M
4.3	20	22	MMSZ5229BSDICT-ND	.47	3.44	24.20	MMSZ5229BSDITR-ND	99.00/M
4.7	20	19	MMSZ5230BSDICT-ND	.47	3.44	24.20	MMSZ5230BSDITR-ND	99.00/M
5.1	20	17	MMSZ5231BSDICT-ND	.47	3.44	24.20	MMSZ5231BSDITR-ND	99.00/M
5.6	20	11	MMSZ5232BSDICT-ND	.47	3.44	24.20	MMSZ5232BSDITR-ND	99.00/M
6.2	20	7	MMSZ5234BSDICT-ND	.47	3.44	24.20	MMSZ5234BSDITR-ND	99.00/M
6.8	20	5	MMSZ5235BSDICT-ND	.47	3.44	24.20	MMSZ5235BSDITR-ND	99.00/M
7.5	20	6	MMSZ5236BSDICT-ND	.47	3.44	24.20	MMSZ5236BSDITR-ND	99.00/M
8.2	20	8	MMSZ5237BSDICT-ND	.47	3.44	24.20	MMSZ5237BSDITR-ND	99.00/M
9.1	20	10	MMSZ5239BSDICT-ND	.47	3.44	24.20	MMSZ5239BSDITR-ND	99.00/M
10	20	17	MMSZ5240BSDICT-ND	.47	3.44	24.20	MMSZ5240BSDITR-ND	99.00/M
11	20	22	MMSZ5241BSDICT-ND	.47	3.44	24.20	MMSZ5241BSDITR-ND	99.00/M
12	20	30	MMSZ5242BSDICT-ND	.47	3.44	24.20	MMSZ5242BSDITR-ND	99.00/M
13	9.5	13	MMSZ5243BSDICT-ND	.47	3.44	24.20	MMSZ5243BSDITR-ND	99.00/M
15	8.5	16	MMSZ5245BSDICT-ND	.47	3.44	24.20	MMSZ5245BSDITR-ND	99.00/M
18	7.0	21	MMSZ5248BSDICT-ND	.47	3.44	24.20	MMSZ5248BSDITR-ND	99.00/M
20	6.2	25	MMSZ5250BSDICT-ND	.47	3.44	24.20	MMSZ5250BSDITR-ND	99.00/M
22	5.6	29	MMSZ5251BSDICT-ND	.47	3.44	24.20	MMSZ5251BSDITR-ND	99.00/M
24	5.2	33	MMSZ5252BSDICT-ND	.47	3.44	24.20	MMSZ5252BSDITR-ND	99.00/M
27	5.0	41	MMSZ5254BSDICT-ND	.47	3.44	24.20	MMSZ5254BSDITR-ND	99.00/M
28	4.5	44	MMSZ5255BSDICT-ND	.47	3.44	24.20	MMSZ5255BSDITR-ND	99.00/M
30	4.2	49	MMSZ5256BSDICT-ND	.47	3.44	24.20	MMSZ5256BSDITR-ND	99.00/M
33	3.8	58	MMSZ5257BSDICT-ND	.47	3.44	24.20	MMSZ5257BSDITR-ND	99.00/M
36	3.4	70	MMSZ5258BSDICT-ND	.47	3.44	24.20	MMSZ5258BSDITR-ND	99.00/M
39	3.2	80	MMSZ5259BSDICT-ND	.47	3.44	24.20	MMSZ5259BSDITR-ND	99.00/M

MELF (DL-41) Surface Mount Zener Diodes — 1W



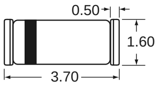
Zener Volt VZ @ IZT Nom	Test Curr. iZT (mA)	Max. Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 5,000
3.3	76	10	ZM4728ADICT-ND	4.00	28.80	84.00	ZM4728ADITR-ND	128.00/M
3.9	64	9.0	ZM4730ADICT-ND	4.00	28.80	84.00	ZM4730ADITR-ND	128.00/M
4.3	58	9.0	ZM4731ADICT-ND	4.00	28.80	84.00	ZM4731ADITR-ND	128.00/M
4.7	53	8.0	ZM4732ADICT-ND	4.00	28.80	84.00	ZM4732ADITR-ND	128.00/M
5.1	49	7.0	ZM4733ADICT-ND	4.00	28.80	84.00	ZM4733ADITR-ND	128.00/M
5.6	45	5.0	ZM4734ADICT-ND	4.00	28.80	84.00	ZM4734ADITR-ND	128.00/M
6.2	41	2.0	ZM4735ADICT-ND	4.00	28.80	84.00	ZM4735ADITR-ND	128.00/M
6.8	37	3.5	ZM4736ADICT-ND	4.00	28.80	84.00	ZM4736ADITR-ND	128.00/M

(*Continued*)

Zener Diodes *(Cont.)*

Zener Volt VZ @ IZT Nom	Test Curr. iZT (mA)	Max. Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 5,000
7.5	34	4.0	ZM4737ADICT-ND	4.00	28.80	84.00	ZM4737ADITR-ND	128.00/M
8.2	31	4.5	ZM4738ADICT-ND	4.00	28.80	84.00	ZM4738ADITR-ND	128.00/M
9.1	28	5.0	ZM4739ADICT-ND	4.00	28.80	84.00	ZM4739ADITR-ND	128.00/M
10	25	7.0	ZM4740ADICT-ND	4.00	28.80	84.00	ZM4740ADITR-ND	128.00/M
11	23	8	ZM4741ADICT-ND	4.00	28.80	84.00	ZM4741ADITR-ND	128.00/M
12	21	9	ZM4742ADICT-ND	4.00	28.80	84.00	ZM4742ADITR-ND	128.00/M
13	19	10	ZM4743ADICT-ND	4.00	28.80	84.00	ZM4743ADITR-ND	128.00/M
15	17	14	ZM4744ADICT-ND	4.00	28.80	84.00	ZM4744ADITR-ND	128.00/M
16	15	16	ZM4745ADICT-ND	4.00	28.80	84.00	ZM4745ADITR-ND	128.00/M
18	14	20	ZM4746ADICT-ND	4.00	28.80	84.00	ZM4746ADITR-ND	128.00/M
20	12.5	22	ZM4747ADICT-ND	4.00	28.80	84.00	ZM4747ADITR-ND	128.00/M
22	11.5	23	ZM4748ADICT-ND	4.00	28.80	84.00	ZM4748ADITR-ND	128.00/M
24	10.5	25	ZM4749ADICT-ND	4.00	28.80	84.00	ZM4749ADITR-ND	128.00/M
27	9.5	35	ZM4750ADICT-ND	4.00	28.80	84.00	ZM4750ADITR-ND	128.00/M
30	8.5	40	ZM4751ADICT-ND	4.00	28.80	84.00	ZM4751ADITR-ND	128.00/M
33	7.5	45	ZM4752ADICT-ND	4.00	28.80	84.00	ZM4752ADITR-ND	128.00/M
36	7.0	50	ZM4753ADICT-ND	4.00	28.80	84.00	ZM4753ADITR-ND	128.00/M
39	6.5	60	ZM4754ADICT-ND	4.00	28.80	84.00	ZM4754ADITR-ND	128.00/M
43	6.0	70	ZM4755ADICT-ND	4.00	28.80	84.00	ZM4755ADITR-ND	128.00/M
47	5.5	80	ZM4756ADICT-ND	4.00	28.80	84.00	ZM4756ADITR-ND	128.00/M
51	5.0	95	ZM4757ADICT-ND	4.00	28.80	84.00	ZM4757ADITR-ND	128.00/M
56	4.5	110	ZM4758ADICT-ND	4.00	28.80	84.00	ZM4758ADITR-ND	128.00/M
62	4.0	125	ZM4759ADICT-ND	4.00	28.80	84.00	ZM4759ADITR-ND	128.00/M
68	3.7	150	ZM4760ADICT-ND	4.00	28.80	84.00	ZM4760ADITR-ND	128.00/M
75	3.3	175	ZM4761ADICT-ND	4.00	28.80	84.00	ZM4761ADITR-ND	128.00/M
82	3.0	200	ZM4762ADICT-ND	4.00	28.80	84.00	ZM4762ADITR-ND	128.00/M
91	2.8	250	ZM4763ADICT-ND	4.00	28.80	84.00	ZM4763ADITR-ND	128.00/M
100	2.5	350	ZM4764ADICT-ND	4.00	28.80	84.00	ZM4764ADITR-ND	128.00/M

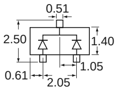
MiniMELF (DL-35) Surface Mount Zener Diodes — 500mW



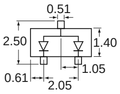
Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max. Dynamic Impedance ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 2,500
3.0	20	29	ZMM5225BDICT-ND	2.48	17.16	75.90	ZMM5225BDITR-ND	66.00/M
3.3	20	28	ZMM5226BDICT-ND	2.48	17.16	75.90	ZMM5226BDITR-ND	66.00/M
3.6	20	24	ZMM5227BDICT-ND	2.48	17.16	75.90	ZMM5227BDITR-ND	66.00/M
3.9	20	23	ZMM5228BDICT-ND	2.48	17.16	75.90	ZMM5228BDITR-ND	66.00/M
4.3	20	22	ZMM5229BDICT-ND	2.48	17.16	75.90	ZMM5229BDITR-ND	66.00/M
4.7	20	19	ZMM5230BDICT-ND	2.48	17.16	75.90	ZMM5230BDITR-ND	66.00/M
5.1	20	17	ZMM5231BDICT-ND	2.48	17.16	75.90	ZMM5231BDITR-ND	66.00/M
5.6	20	11	ZMM5232BDICT-ND	2.48	17.16	75.90	ZMM5232BDITR-ND	66.00/M
6.0	20	7	ZMM5233BDICT-ND	2.48	17.16	75.90	ZMM5233BDITR-ND	66.00/M
6.2	20	7	ZMM5234BDICT-ND	2.48	17.16	75.90	ZMM5234BDITR-ND	66.00/M
6.8	20	5	ZMM5235BDICT-ND	2.48	17.16	75.90	ZMM5235BDITR-ND	66.00/M
7.5	20	6	ZMM5236BDICT-ND	2.48	17.16	75.90	ZMM5236BDITR-ND	66.00/M
8.2	20	8	ZMM5237BDICT-ND	2.48	17.16	75.90	ZMM5237BDITR-ND	66.00/M
8.7	20	8	ZMM5238BDICT-ND	2.48	17.16	75.90	ZMM5238BDITR-ND	66.00/M
9.1	20	10	ZMM5239BDICT-ND	2.48	17.16	75.90	ZMM5239BDITR-ND	66.00/M
10	20	17	ZMM5240BDICT-ND	2.48	17.16	75.90	ZMM5240BDITR-ND	66.00/M
11	20	22	ZMM5241BDICT-ND	2.48	17.16	75.90	ZMM5241BDITR-ND	66.00/M
12	20	30	ZMM5242BDICT-ND	2.48	17.16	75.90	ZMM5242BDITR-ND	66.00/M
13	9.5	13	ZMM5243BDICT-ND	2.48	17.16	75.90	ZMM5243BDITR-ND	66.00/M
14	9.0	15	ZMM5244BDICT-ND	2.48	17.16	75.90	ZMM5244BDITR-ND	66.00/M
15	8.5	16	ZMM5245BDICT-ND	2.48	17.16	75.90	ZMM5245BDITR-ND	66.00/M
16	7.8	17	ZMM5246BDICT-ND	2.48	17.16	75.90	ZMM5246BDITR-ND	66.00/M
17	7.4	19	ZMM5247BDICT-ND	2.48	17.16	75.90	ZMM5247BDITR-ND	66.00/M
18	7.0	21	ZMM5248BDICT-ND	2.48	17.16	75.90	ZMM5248BDITR-ND	66.00/M
19	6.6	23	ZMM5249BDICT-ND	2.48	17.16	75.90	ZMM5249BDITR-ND	66.00/M
20	6.2	25	ZMM5250BDICT-ND	2.48	17.16	75.90	ZMM5250BDITR-ND	66.00/M
22	5.6	29	ZMM5251BDICT-ND	2.48	17.16	75.90	ZMM5251BDITR-ND	66.00/M
24	5.2	33	ZMM5252BDICT-ND	2.48	17.16	75.90	ZMM5252BDITR-ND	66.00/M
25	5.0	35	ZMM5253BDICT-ND	2.48	17.16	75.90	ZMM5253BDITR-ND	66.00/M
27	4.6	41	ZMM5254BDICT-ND	2.48	17.16	75.90	ZMM5254BDITR-ND	66.00/M
28	4.5	44	ZMM5255BDICT-ND	2.48	17.16	75.90	ZMM5255BDITR-ND	66.00/M
30	4.2	49	ZMM5256BDICT-ND	2.48	17.16	75.90	ZMM5256BDITR-ND	66.00/M
33	3.8	58	ZMM5257BDICT-ND	2.48	17.16	75.90	ZMM5257BDITR-ND	66.00/M
36	3.4	70	ZMM5258BDICT-ND	2.48	17.16	75.90	ZMM5258BDITR-ND	66.00/M
39	3.2	80	ZMM5259BDICT-ND	2.48	17.16	75.90	ZMM5259BDITR-ND	66.00/M
43	3.0	93	ZMM5260BDICT-ND	2.48	17.16	75.90	ZMM5260BDITR-ND	66.00/M
47	2.7	105	ZMM5261BDICT-ND	2.48	17.16	75.90	ZMM5261BDITR-ND	66.00/M
51	2.5	125	ZMM5262BDICT-ND	2.48	17.16	75.90	ZMM5262BDITR-ND	66.00/M
62	2.0	185	ZMM5265BDICT-ND	2.48	17.16	75.90	ZMM5265BDITR-ND	66.00/M
68	1.8	230	ZMM5266BDICT-ND	2.48	17.16	75.90	ZMM5266BDITR-ND	66.00/M

SOT-23 Dual Surface Mount Zener Diodes — 300mW

Common Cathode

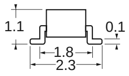


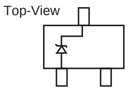
Common Anode



Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max. Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Common Anode								
3.0	5.0	95	AZ23C3V0DICT-ND	.50	4.00	30.00	AZ23C3V0DITR-ND	150.00/M
3.9	5.0	95	AZ23C3V9DICT-ND	.50	4.00	30.00	AZ23C3V9DITR-ND	150.00/M
4.7	5.0	78	AZ23C4V7DICT-ND	.50	4.00	30.00	AZ23C4V7DITR-ND	150.00/M
5.1	5.0	60	AZ23C5V1DICT-ND	.50	4.00	30.00	AZ23C5V1DITR-ND	150.00/M
5.6	5.0	40	AZ23C5V6DICT-ND	.50	4.00	30.00	AZ23C5V6DITR-ND	150.00/M
6.2	5.0	10	AZ23C6V2DICT-ND	.50	4.00	30.00	AZ23C6V2DITR-ND	150.00/M
6.8	5.0	8	AZ23C6V8DICT-ND	.50	4.00	30.00	AZ23C6V8DITR-ND	150.00/M
10	5.0	15	AZ23C10DICT-ND	.50	4.00	30.00	AZ23C10DITR-ND	150.00/M
11	5.0	20	AZ23C11DICT-ND	.50	4.00	30.00	AZ23C11DITR-ND	150.00/M
12	5.0	20	AZ23C12DICT-ND	.50	4.00	30.00	AZ23C12DITR-ND	150.00/M
15	5.0	30	AZ23C15DICT-ND	.50	4.00	30.00	AZ23C15DITR-ND	150.00/M
16	5.0	40	AZ23C16DICT-ND	.50	4.00	30.00	AZ23C16DITR-ND	150.00/M
18	5.0	50	AZ23C18DICT-ND	.50	4.00	30.00	AZ23C18DITR-ND	150.00/M
20	5.0	50	AZ23C20DICT-ND	.50	4.00	30.00	AZ23C20DITR-ND	150.00/M
22	5.0	55	AZ23C22DICT-ND	.50	4.00	30.00	AZ23C22DITR-ND	150.00/M
27	5.0	80	AZ23C27DICT-ND	.50	4.00	30.00	AZ23C27DITR-ND	150.00/M
36	5.0	90	AZ23C36DICT-ND	.50	4.00	30.00	AZ23C36DITR-ND	150.00/M
51	5.0	100	AZ23C51DICT-ND	.50	4.00	30.00	AZ23C51DITR-ND	150.00/M
Common Cathode								
3.0	5.0	95	DZ23C3V0DICT-ND	.45	3.60	27.00	DZ23C3V0DITR-ND	135.00/M
3.3	5.0	95	DZ23C3V3DICT-ND	.45	3.60	27.00	DZ23C3V3DITR-ND	135.00/M
3.6	5.0	95	DZ23C3V6DICT-ND	.45	3.60	27.00	DZ23C3V6DITR-ND	135.00/M
3.9	5.0	95	DZ23C3V9DICT-ND	.45	3.60	27.00	DZ23C3V9DITR-ND	135.00/M
4.3	5.0	95	DZ23C4V3DICT-ND	.45	3.60	27.00	DZ23C4V3DITR-ND	135.00/M
5.1	5.0	60	DZ23C5V1DICT-ND	.45	3.60	27.00	DZ23C5V1DITR-ND	135.00/M
5.6	5.0	40	DZ23C5V6DICT-ND	.45	3.60	27.00	DZ23C5V6DITR-ND	135.00/M
6.2	5.0	10	DZ23C6V2DICT-ND	.45	3.60	27.00	DZ23C6V2DITR-ND	135.00/M
6.8	5.0	8	DZ23C6V8DICT-ND	.45	3.60	27.00	DZ23C6V8DITR-ND	135.00/M
7.5	5.0	7	DZ23C7V5DICT-ND	.45	3.60	27.00	DZ23C7V5DITR-ND	135.00/M
8.2	5.0	7	DZ23C8V2DICT-ND	.45	3.60	27.00	DZ23C8V2DITR-ND	135.00/M
9.1	5.0	10	DZ23C9V1DICT-ND	.45	3.60	27.00	DZ23C9V1DITR-ND	135.00/M
10	5.0	15	DZ23C10DICT-ND	.45	3.60	27.00	DZ23C10DITR-ND	135.00/M
11	5.0	20	DZ23C11DICT-ND	.45	3.60	27.00	DZ23C11DITR-ND	135.00/M
12	5.0	20	DZ23C12DICT-ND	.45	3.60	27.00	DZ23C12DITR-ND	135.00/M
13	5.0	25	DZ23C13DICT-ND	.45	3.60	27.00	DZ23C13DITR-ND	135.00/M
15	5.0	30	DZ23C15DICT-ND	.45	3.60	27.00	DZ23C15DITR-ND	135.00/M
22	5.0	55	DZ23C22DICT-ND	.45	3.60	27.00	DZ23C22DITR-ND	135.00/M
27	5.0	80	DZ23C27DICT-ND	.45	3.60	27.00	DZ23C27DITR-ND	135.00/M
30	5.0	80	DZ23C30DICT-ND	.45	3.60	27.00	DZ23C30DITR-ND	135.00/M
36	5.0	90	DZ23C36DICT-ND	.45	3.60	27.00	DZ23C36DITR-ND	135.00/M
43	5.0	100	DZ23C43DICT-ND	.45	3.60	27.00	DZ23C43DITR-ND	135.00/M

SOT-23 Surface Mount Zener Diodes — 350mW





Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max. Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZX Series								
2.4	5.0	100	BZX84C2V4DICT-ND	.44	3.00	20.80	BZX84C2V4DITR-ND	80.00/M
2.7	5.0	100	BZX84C2V7DICT-ND	.44	3.00	20.80	BZX84C2V7DITR-ND	80.00/M
3.0	5.0	95	BZX84C3V0DICT-ND	.44	3.00	20.80	BZX84C3V0DITR-ND	80.00/M
3.3	5	95	BZX84C3V3DICT-ND•	.44	3.00	20.80	BZX84C3V3DITR-ND	80.00/M
3.6	5	95	BZX84C3V6DICT-ND	.44	3.00	20.80	BZX84C3V6DITR-ND	80.00/M
3.9	5	90	BZX84C3V9DICT-ND•	.44	3.00	20.80	BZX84C3V9DITR-ND	80.00/M
4.3	5	90	BZX84C4V3DICT-ND	.44	3.00	20.80	BZX84C4V3DITR-ND	80.00/M
4.7	5	80	BZX84C4V7DICT-ND	.44	3.00	20.80	BZX84C4V7DITR-ND	80.00/M
5.1	5	60	BZX84C5V1DICT-ND•	.44	3.00	20.80	BZX84C5V1DITR-ND	80.00/M
5.6	5	40	BZX84C5V6DICT-ND•	.44	3.00	20.80	BZX84C5V6DITR-ND	80.00/M
6.2	5	10	BZX84C6V2DICT-ND•	.44	3.00	20.80	BZX84C6V2DITR-ND	80.00/M
6.8	5	15	BZX84C6V8DICT-ND•	.44	3.00	20.80	BZX84C6V8DITR-ND	80.00/M
7.5	5	15	BZX84C7V5DICT-ND	.44	3.00	20.80	BZX84C7V5DITR-ND	80.00/M
8.2	5	15	BZX84C8V2DICT-ND	.44	3.00	20.80	BZX84C8V2DITR-ND	80.00/M
9.1	5	15	BZX84C9V1DICT-ND•	.44	3.00	20.80	BZX84C9V1DITR-ND	80.00/M
10	5	20	BZX84C10DICT-ND•	.44	3.00	20.80	BZX84C10DITR-ND	80.00/M
11	5	2	BZX84C11DICT-ND	.44	3.00	20.80	BZX84C11DITR-ND	80.00/M
12	5	25	BZX84C12DICT-ND•	.44	3.00	20.80	BZX84C12DITR-ND	80.00/M
13	5	30	BZX84C13DICT-ND	.44	3.00	20.80	BZX84C13DITR-ND	80.00/M
15	5	30	BZX84C15DICT-ND•	.44	3.00	20.80	BZX84C15DITR-ND	80.00/M
16	5	40	BZX84C16DICT-ND	.44	3.00	20.80	BZX84C16DITR-ND	80.00/M
18	5	45	BZX84C18DICT-ND•	.44	3.00	20.80	BZX84C18DITR-ND	80.00/M
20	5	55	BZX84C20DICT-ND•	.44	3.00	20.80	BZX84C20DITR-ND	80.00/M
22	5	55	BZX84C22DICT-ND	.44	3.00	20.80	BZX84C22DITR-ND	80.00/M
24	5	70	BZX84C24DICT-ND•	.44	3.00	20.80	BZX84C24DITR-ND	80.00/M
27	2	80	BZX84C27DICT-ND	.44	3.00	20.80	BZX84C27DITR-ND	80.00/M
30	2	80	BZX84C30DICT-ND•	.44	3.00	20.80	BZX84C30DITR-ND	80.00/M
33	2	80	BZX84C33DICT-ND•	.44	3.00	20.80	BZX84C33DITR-ND	80.00/M
36	2	90	BZX84C36DICT-ND•	.44	3.00	20.80	BZX84C36DITR-ND	80.00/M
39	2	130	BZX84C39DICT-ND•	.44	3.00	20.80	BZX84C39DITR-ND	80.00/M
43	2	150	BZX84C43DICT-ND	.44	3.00	20.80	BZX84C43DITR-ND	80.00/M
47	2	170	BZX84C47DICT-ND•	.44	3.00	20.80	BZX84C47DITR-ND	80.00/M
51	2	180	BZX84C51DICT-ND	.44	3.00	20.80	BZX84C51DITR-ND	80.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BDICT-ND	.44	3.00	20.80	MMBZ5221BDITR-ND	80.00/M
3.3	20	28	MMBZ5226BDICT-ND	.44	3.00	20.80	MMBZ5226BDITR-ND	80.00/M
3.6	20	24	MMBZ5227BDICT-ND	.44	3.00	20.80	MMBZ5227BDITR-ND	80.00/M
3.9	20	23	MMBZ5228BDICT-ND	.44	3.00	20.80	MMBZ5228BDITR-ND	80.00/M
4.3	20	22	MMBZ5229BDICT-ND	.44	3.00	20.80	MMBZ5229BDITR-ND	80.00/M
4.7	20	19	MMBZ5230BDICT-ND	.44	3.00	20.80	MMBZ5230BDITR-ND	80.00/M
5.1	20	17	MMBZ5231BDICT-ND	.44	3.00	20.80	MMBZ5231BDITR-ND	80.00/M
5.6	20	11	MMBZ5232BDICT-ND	.44	3.00	20.80	MMBZ5232BDITR-ND	80.00/M
6.2	20	7	MMBZ5234BDICT-ND	.44	3.00	20.80	MMBZ5234BDITR-ND	80.00/M
6.8	20	5	MMBZ5235BDICT-ND	.44	3.00	20.80	MMBZ5235BDITR-ND	80.00/M
7.5	20	6	MMBZ5236BDICT-ND	.44	3.00	20.80	MMBZ5236BDITR-ND	80.00/M
8.2	20	8	MMBZ5237BDICT-ND	.44	3.00	20.80	MMBZ5237BDITR-ND	80.00/M
9.1	20	10	MMBZ5239BDICT-ND	.44	3.00	20.80	MMBZ5239BDITR-ND	80.00/M
10	20	17	MMBZ5240BDICT-ND	.44	3.00	20.80	MMBZ5240BDITR-ND	80.00/M
12	20	30	MMBZ5242BDICT-ND	.44	3.00	20.80	MMBZ5242BDITR-ND	80.00/M
13	9.5	13	MMBZ5243BDICT-ND	.44	3.00	20.80	MMBZ5243BDITR-ND	80.00/M
15	8.5	16	MMBZ5245BDICT-ND	.44	3.00	20.80	MMBZ5245BDITR-ND	80.00/M
16	7.8	17	MMBZ5246BDICT-ND	.44	3.00	20.80	MMBZ5246BDITR-ND	80.00/M
18	7.0	21	MMBZ5248BDICT-ND	.44	3.00	20.80	MMBZ5248BDITR-ND	80.00/M
24	5.2	33	MMBZ5252BDICT-ND	.44	3.00	20.80	MMBZ5252BDITR-ND	80.00/M
27	5.0	41	MMBZ5254BDICT-ND	.44	3.00	20.80	MMBZ5254BDITR-ND	80.00/M
28	4.5	44	MMBZ5255BDICT-ND	.44	3.00	20.80	MMBZ5255BDITR-ND	80.00/M
30	4.2	49	MMBZ5256BDICT-ND	.44	3.00	20.80	MMBZ5256BDITR-ND	80.00/M
33	3.8	58	MMBZ5257BDICT-ND	.44	3.00	20.80	MMBZ5257BDITR-ND	80.00/M
36	3.4	70	MMBZ5258BDICT-ND	.44	3.00	20.80	MMBZ5258BDITR-ND	80.00/M

- **BZX2-KIT-ND** ***Digi-Key® SMD Zener Diodes Kit*** 10 each of values denoted (180 total pieces) **$23.79**

(Continued)

DIODES INCORPORATED

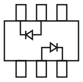
Zener Diodes *(Cont.)*

SOT-323 Surface Mount Zener Diode — 200mW

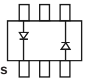
Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max. Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZX Series								
2.4	5.0	100	BZX84C2V4WDICT-ND	2.81	19.80	90.00	BZX84C2V4WDITR-ND	81.00/M
2.7	5.0	100	BZX84C2V7WDICT-ND	2.81	19.80	90.00	BZX84C2V7WDITR-ND	81.00/M
3.0	5.0	95	BZX84C3V0WDICT-ND	2.81	19.80	90.00	BZX84C3V0WDITR-ND	81.00/M
3.3	5.0	95	BZX84C3V3WDICT-ND	2.81	19.80	90.00	BZX84C3V3WDITR-ND	81.00/M
3.6	5.0	90	BZX84C3V6WDICT-ND	2.81	19.80	90.00	BZX84C3V6WDITR-ND	81.00/M
3.9	5.0	90	BZX84C3V9WDICT-ND	2.81	19.80	90.00	BZX84C3V9WDITR-ND	81.00/M
4.7	5.0	80	BZX84C4V7WDICT-ND	2.81	19.80	90.00	BZX84C4V7WDITR-ND	81.00/M
5.1	5.0	60	BZX84C5V1WDICT-ND	2.81	19.80	90.00	BZX84C5V1WDITR-ND	81.00/M
5.6	5.0	40	BZX84C5V6WDICT-ND	2.81	19.80	90.00	BZX84C5V6WDITR-ND	81.00/M
6.2	5.0	10	BZX84C6V2WDICT-ND	2.81	19.80	90.00	BZX84C6V2WDITR-ND	81.00/M
6.8	5.0	15	BZX84C6V8WDICT-ND	2.81	19.80	90.00	BZX84C6V8WDITR-ND	81.00/M
7.5	5.0	15	BZX84C7V5WDICT-ND	2.81	19.80	90.00	BZX84C7V5WDITR-ND	81.00/M
8.2	5.0	15	BZX84C8V2WDICT-ND	2.81	19.80	90.00	BZX84C8V2WDITR-ND	81.00/M
9.1	5.0	15	BZX84C9V1WDICT-ND	2.81	19.80	90.00	BZX84C9V1WDITR-ND	81.00/M
10	5.0	20	BZX84C10WDICT-ND	2.81	19.80	90.00	BZX84C10WDITR-ND	81.00/M
11	5.0	20	BZX84C11WDICT-ND	2.81	19.80	90.00	BZX84C11WDITR-ND	81.00/M
12	5.0	25	BZX84C12WDICT-ND	2.81	19.80	90.00	BZX84C12WDITR-ND	81.00/M
15	5.0	30	BZX84C15WDICT-ND	2.81	19.80	90.00	BZX84C15WDITR-ND	81.00/M
16	5.0	40	BZX84C16WDICT-ND	2.81	19.80	90.00	BZX84C16WDITR-ND	81.00/M
18	5.0	45	BZX84C18WDICT-ND	2.81	19.80	90.00	BZX84C18WDITR-ND	81.00/M
20	5.0	55	BZX84C20WDICT-ND	2.81	19.80	90.00	BZX84C20WDITR-ND	81.00/M
22	5.0	55	BZX84C22WDICT-ND	2.81	19.80	90.00	BZX84C22WDITR-ND	81.00/M
24	5.0	70	BZX84C24WDICT-ND	2.81	19.80	90.00	BZX84C24WDITR-ND	81.00/M
27	2.0	80	BZX84C27WDICT-ND	2.81	19.80	90.00	BZX84C27WDITR-ND	81.00/M
30	2.0	80	BZX84C30WDICT-ND	2.81	19.80	90.00	BZX84C30WDITR-ND	81.00/M
33	2.0	80	BZX84C33WDICT-ND	2.81	19.80	90.00	BZX84C33WDITR-ND	81.00/M
36	2.0	90	BZX84C36WDICT-ND	2.81	19.80	90.00	BZX84C36WDITR-ND	81.00/M
39	2.0	130	BZX84C39WDICT-ND	2.81	19.80	90.00	BZX84C39WDITR-ND	81.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BWDICT-ND	2.81	19.80	90.00	MMBZ5221BWDITR-ND	81.00/M
3.0	20	30	MMBZ5225BWDICT-ND	2.81	19.80	90.00	MMBZ5225BWDITR-ND	81.00/M
3.3	20	28	MMBZ5226BWDICT-ND	2.81	19.80	90.00	MMBZ5226BWDITR-ND	81.00/M
3.6	20	24	MMBZ5227BWDICT-ND	2.81	19.80	90.00	MMBZ5227BWDITR-ND	81.00/M
3.9	20	23	MMBZ5228BWDICT-ND	2.81	19.80	90.00	MMBZ5228BWDITR-ND	81.00/M
4.7	20	19	MMBZ5230BWDICT-ND	2.81	19.80	90.00	MMBZ5230BWDITR-ND	81.00/M
5.1	20	17	MMBZ5231BWDICT-ND	2.81	19.80	90.00	MMBZ5231BWDITR-ND	81.00/M
5.6	20	11	MMBZ5232BWDICT-ND	2.81	19.80	90.00	MMBZ5232BWDITR-ND	81.00/M
6.2	20	7.0	MMBZ5234BWDICT-ND	2.81	19.80	90.00	MMBZ5234BWDITR-ND	81.00/M
6.8	20	5.0	MMBZ5235BWDICT-ND	2.81	19.80	90.00	MMBZ5235BWDITR-ND	81.00/M
7.5	20	6.0	MMBZ5236BWDICT-ND	2.81	19.80	90.00	MMBZ5236BWDITR-ND	81.00/M
8.2	20	8.0	MMBZ5237BWDICT-ND	2.81	19.80	90.00	MMBZ5237BWDITR-ND	81.00/M
9.1	20	10	MMBZ5239BWDICT-ND	2.81	19.80	90.00	MMBZ5239BWDITR-ND	81.00/M
11	20	22	MMBZ5241BWDICT-ND	2.81	19.80	90.00	MMBZ5241BWDITR-ND	81.00/M
12	20	30	MMBZ5242BWDICT-ND	2.81	19.80	90.00	MMBZ5242BWDITR-ND	81.00/M
13	9.5	13	MMBZ5243BWDICT-ND	2.81	19.80	90.00	MMBZ5243BWDITR-ND	81.00/M
15	8.5	16	MMBZ5245BWDICT-ND	2.81	19.80	90.00	MMBZ5245BWDITR-ND	81.00/M
16	7.8	17	MMBZ5246BWDICT-ND	2.81	19.80	90.00	MMBZ5246BWDITR-ND	81.00/M
18	7.0	21	MMBZ5248BWDICT-ND	2.81	19.80	90.00	MMBZ5248BWDITR-ND	81.00/M
20	6.2	25	MMBZ5250BWDICT-ND	2.81	19.80	90.00	MMBZ5250BWDITR-ND	81.00/M
22	5.6	29	MMBZ5251BWDICT-ND	2.81	19.80	90.00	MMBZ5251BWDITR-ND	81.00/M
24	5.2	33	MMBZ5252BWDICT-ND	2.81	19.80	90.00	MMBZ5252BWDITR-ND	81.00/M
27	5.0	41	MMBZ5254BWDICT-ND	2.81	19.80	90.00	MMBZ5254BWDITR-ND	81.00/M
28	4.5	44	MMBZ5255BWDICT-ND	2.81	19.80	90.00	MMBZ5255BWDITR-ND	81.00/M
36	3.4	70	MMBZ5258BWDICT-ND	2.81	19.80	90.00	MMBZ5258BWDITR-ND	81.00/M
39	3.2	80	MMBZ5259BWDICT-ND	2.81	19.80	90.00	MMBZ5259BWDITR-ND	81.00/M

SOT-363 Dual Isolated Surface Mount Zener Diodes — 200mW

BZX Series



MMBZ Series

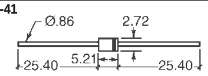
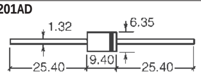
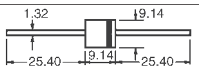


Zener Volt VZ @ IZT Nom	Test Current iZT (mA)	Max. Dynamic Imped. ZZT iZT	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZX Series								
2.4	5.0	100	BZX84C2V4SDICT-ND	3.13	22.00	100.00	BZX84C2V4SDITR-ND	90.00/M
2.7	5.0	100	BZX84C2V7SDICT-ND	3.13	22.00	100.00	BZX84C2V7SDITR-ND	90.00/M
3.0	5.0	95	BZX84C3V0SDICT-ND	3.13	22.00	100.00	BZX84C3V0SDITR-ND	90.00/M
3.3	5.0	95	BZX84C3V3SDICT-ND	3.13	22.00	100.00	BZX84C3V3SDITR-ND	90.00/M
3.6	5.0	90	BZX84C3V6SDICT-ND	3.13	22.00	100.00	BZX84C3V6SDITR-ND	90.00/M
3.9	5.0	90	BZX84C3V9SDICT-ND	3.13	22.00	100.00	BZX84C3V9SDITR-ND	90.00/M
4.3	5.0	90	BZX84C4V3SDICT-ND	3.13	22.00	100.00	BZX84C4V3SDITR-ND	90.00/M
4.7	5.0	80	BZX84C4V7SDICT-ND	3.13	22.00	100.00	BZX84C4V7SDITR-ND	90.00/M
5.1	5.0	60	BZX84C5V1SDICT-ND	3.13	22.00	100.00	BZX84C5V1SDITR-ND	90.00/M
5.6	5.0	40	BZX84C5V6SDICT-ND	3.13	22.00	100.00	BZX84C5V6SDITR-ND	90.00/M
6.2	5.0	10	BZX84C6V2SDICT-ND	3.13	22.00	100.00	BZX84C6V2SDITR-ND	90.00/M
6.8	5.0	15	BZX84C6V8SDICT-ND	3.13	22.00	100.00	BZX84C6V8SDITR-ND	90.00/M
7.5	5.0	15	BZX84C7V5SDICT-ND	3.13	22.00	100.00	BZX84C7V5SDITR-ND	90.00/M
8.2	5.0	15	BZX84C8V2SDICT-ND	3.13	22.00	100.00	BZX84C8V2SDITR-ND	90.00/M
9.1	5.0	15	BZX84C9V1SDICT-ND	3.13	22.00	100.00	BZX84C9V1SDITR-ND	90.00/M
11	5.0	20	BZX84C11SDICT-ND	3.13	22.00	100.00	BZX84C11SDITR-ND	90.00/M
12	5.0	25	BZX84C12SDICT-ND	3.13	22.00	100.00	BZX84C12SDITR-ND	90.00/M
15	5.0	30	BZX84C15SDICT-ND	3.13	22.00	100.00	BZX84C15SDITR-ND	90.00/M
18	5.0	45	BZX84C18SDICT-ND	3.13	22.00	100.00	BZX84C18SDITR-ND	90.00/M
20	5.0	55	BZX84C20SDICT-ND	3.13	22.00	100.00	BZX84C20SDITR-ND	90.00/M
22	5.0	55	BZX84C22SDICT-ND	3.13	22.00	100.00	BZX84C22SDITR-ND	90.00/M
24	5.0	70	BZX84C24SDICT-ND	3.13	22.00	100.00	BZX84C24SDITR-ND	90.00/M
27	2.0	80	BZX84C27SDICT-ND	3.13	22.00	100.00	BZX84C27SDITR-ND	90.00/M
30	2.0	80	BZX84C30SDICT-ND	3.13	22.00	100.00	BZX84C30SDITR-ND	90.00/M
33	2.0	80	BZX84C33SDICT-ND	3.13	22.00	100.00	BZX84C33SDITR-ND	90.00/M
36	2.0	90	BZX84C36SDICT-ND	3.13	22.00	100.00	BZX84C36SDITR-ND	90.00/M
39	2.0	130	BZX84C39SDICT-ND	3.13	22.00	100.00	BZX84C39SDITR-ND	90.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BSDICT-ND	3.13	22.00	100.00	MMBZ5221BSDITR-ND	90.00/M
3.0	20	30	MMBZ5225BSDICT-ND	3.13	22.00	100.00	MMBZ5225BSDITR-ND	90.00/M
3.3	20	28	MMBZ5226BSDICT-ND	3.13	22.00	100.00	MMBZ5226BSDITR-ND	90.00/M
3.6	20	24	MMBZ5227BSDICT-ND	3.13	22.00	100.00	MMBZ5227BSDITR-ND	90.00/M
3.9	20	23	MMBZ5228BSDICT-ND	3.13	22.00	100.00	MMBZ5228BSDITR-ND	90.00/M
4.7	20	19	MMBZ5230BSDICT-ND	3.13	22.00	100.00	MMBZ5230BSDITR-ND	90.00/M
5.6	20	11	MMBZ5232BSDICT-ND	3.13	22.00	100.00	MMBZ5232BSDITR-ND	90.00/M
6.2	20	7	MMBZ5234BSDICT-ND	3.13	22.00	100.00	MMBZ5234BSDITR-ND	90.00/M
6.8	20	5	MMBZ5235BSDICT-ND	3.13	22.00	100.00	MMBZ5235BSDITR-ND	90.00/M
7.5	20	6	MMBZ5236BSDICT-ND	3.13	22.00	100.00	MMBZ5236BSDITR-ND	90.00/M
8.2	20	8	MMBZ5237BSDICT-ND	3.13	22.00	100.00	MMBZ5237BSDITR-ND	90.00/M
9.1	20	10	MMBZ5239BSDICT-ND	3.13	22.00	100.00	MMBZ5239BSDITR-ND	90.00/M
10	20	17	MMBZ5240BSDICT-ND	3.13	22.00	100.00	MMBZ5240BSDITR-ND	90.00/M
11	20	22	MMBZ5241BSDICT-ND	3.13	22.00	100.00	MMBZ5241BSDITR-ND	90.00/M
12	20	30	MMBZ5242BSDICT-ND	3.13	22.00	100.00	MMBZ5242BSDITR-ND	90.00/M
13	9.5	13	MMBZ5243BSDICT-ND	3.13	22.00	100.00	MMBZ5243BSDITR-ND	90.00/M
15	8.5	16	MMBZ5245BSDICT-ND	3.13	22.00	100.00	MMBZ5245BSDITR-ND	90.00/M
16	7.8	17	MMBZ5246BSDICT-ND	3.13	22.00	100.00	MMBZ5246BSDITR-ND	90.00/M
18	7.0	21	MMBZ5248BSDICT-ND	3.13	22.00	100.00	MMBZ5248BSDITR-ND	90.00/M
20	6.2	25	MMBZ5250BSDICT-ND	3.13	22.00	100.00	MMBZ5250BSDITR-ND	90.00/M
22	5.6	29	MMBZ5251BSDICT-ND	3.13	22.00	100.00	MMBZ5251BSDITR-ND	90.00/M
24	5.2	33	MMBZ5252BSDICT-ND	3.13	22.00	100.00	MMBZ5252BSDITR-ND	90.00/M
27	5.0	41	MMBZ5254BSDICT-ND	3.13	22.00	100.00	MMBZ5254BSDITR-ND	90.00/M
28	4.5	44	MMBZ5255BSDICT-ND	3.13	22.00	100.00	MMBZ5255BSDITR-ND	90.00/M
30	4.2	49	MMBZ5256BSDICT-ND	3.13	22.00	100.00	MMBZ5256BSDITR-ND	90.00/M
33	3.8	58	MMBZ5257BSDICT-ND	3.13	22.00	100.00	MMBZ5257BSDITR-ND	90.00/M
36	3.4	70	MMBZ5258BSDICT-ND	3.13	22.00	100.00	MMBZ5258BSDITR-ND	90.00/M
39	3.2	80	MMBZ5259BSDICT-ND	3.13	22.00	100.00	MMBZ5259BSDITR-ND	90.00/M

SMA Surface Mount Zener Diodes —1.0W, 6% Tolerance

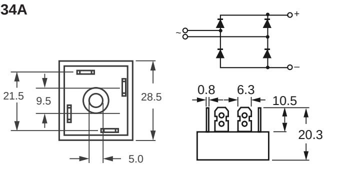
Zener Voltage	Test Current IZT mA	Impedance ZZT @ IZT Ohms	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape & Reel Pricing 5,000
5.1	100	5.0	SMAZ5V1DICT-ND	4.00	28.80	84.00	SMAZ5V1DITR-ND	128.00/M
5.6	100	2.0	SMAZ5V6DICT-ND	4.00	28.80	84.00	SMAZ5V6DITR-ND	128.00/M
6.2	100	2.0	SMAZ6V2DICT-ND	4.00	28.80	84.00	SMAZ6V2DITR-ND	128.00/M
6.8	100	2.0	SMAZ6V8DICT-ND	4.00	28.80	84.00	SMAZ6V8DITR-ND	128.00/M
7.5	100	2.0	SMAZ7V5DICT-ND	4.00	28.80	84.00	SMAZ7V5DITR-ND	128.00/M
8.2	100	2.0	SMAZ8V2DICT-ND	4.00	28.80	84.00	SMAZ8V2DITR-ND	128.00/M
9.1	50	4.0	SMAZ9V1DICT-ND	4.00	28.80	84.00	SMAZ9V1DITR-ND	128.00/M
10	50	4.0	SMAZ10DICT-ND	4.00	28.80	84.00	SMAZ10DITR-ND	128.00/M
12	50	7.0	SMAZ12DICT-ND	4.00	28.80	84.00	SMAZ12DITR-ND	128.00/M
15	50	10	SMAZ15DICT-ND	4.00	28.80	84.00	SMAZ15DITR-ND	128.00/M
16	25	15	SMAZ16DICT-ND	4.00	28.80	84.00	SMAZ16DITR-ND	128.00/M
18	25	15	SMAZ18DICT-ND	4.00	28.80	84.00	SMAZ18DITR-ND	128.00/M
20	25	15	SMAZ20DICT-ND	4.00	28.80	84.00	SMAZ20DITR-ND	128.00/M
22	25	15	SMAZ22DICT-ND	4.00	28.80	84.00	SMAZ22DITR-ND	128.00/M
24	25	15	SMAZ24DICT-ND	4.00	28.80	84.00	SMAZ24DITR-ND	128.00/M
27	25	15	SMAZ27DICT-ND	4.00	28.80	84.00	SMAZ27DITR-ND	128.00/M
30	25	15	SMAZ30DICT-ND	4.00	28.80	84.00	SMAZ30DITR-ND	128.00/M
33	25	15	SMAZ33DICT-ND	4.00	28.80	84.00	SMAZ33DITR-ND	128.00/M
36	10	40	SMAZ36DICT-ND	4.00	28.80	84.00	SMAZ36DITR-ND	128.00/M
39	10	40	SMAZ39DICT-ND	4.00	28.80	84.00	SMAZ39DITR-ND	128.00/M

High-Efficiency Rectifiers

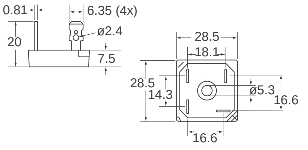
Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (μA)	Max. Forward Voltage Peak (V)	Max. Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 500	Tape & Reel Pricing 1,200	Tape & Reel Pricing 5,000	Package
1.0	50	50	5.0	1.0	50	HER101DICT-ND	.41	3.00	21.12	HER101DITR-ND	—	—	82.00/M	**DO-41** 
	100	50	5.0	1.0	50	HER102DICT-ND	.46	3.38	23.76	HER102DITR-ND	—	—	92.00/M	
	200	50	5.0	1.0	50	HER103DICT-ND	.48	3.56	25.08	HER103DITR-ND	—	—	97.00/M	
	300	50	5.0	1.0	50	HER104DICT-ND	.48	3.70	26.64	HER104DITR-ND	—	—	118.00/M	
	400	50	5.0	1.0	50	HER105DICT-ND	.46	3.68	27.60	HER105DITR-ND	—	—	129.00/M	
3.0	50	200	10.0	1.0	50	HER301DICT-ND	.63	5.00	37.50	HER301DITR-ND	—	200.00/M	—	**DO-201AD** 
	100	200	10.0	1.0	50	HER302DICT-ND	.65	5.20	39.00	HER302DITR-ND	—	208.00/M	—	
	200	200	10.0	1.0	50	HER303DICT-ND	.70	5.60	42.00	HER303DITR-ND	—	224.00/M	—	
	300	200	10.0	1.0	50	HER304DICT-ND	.64	5.12	38.40	HER304DITR-ND	—	232.00/M	—	
	400	200	10.0	1.0	50	HER305DICT-ND	.72	5.76	43.20	HER305DITR-ND	—	261.00/M	—	
6.0	50	300	10.0	1.0	60	HER601DICT-ND	.96	7.68	57.60	HER601DITR-ND	198.00	—	—	**R-6** 
	100	300	10.0	1.0	60	HER602DICT-ND	.86	6.76	52.00	HER602DITR-ND	188.50	—	—	
	200	300	10.0	1.0	60	HER603DICT-ND	.92	7.28	56.00	HER603DITR-ND	203.00	—	—	
	300	300	10.0	1.0	60	HER604DICT-ND	1.16	9.10	70.00	HER604DITR-ND	254.00	—	—	

Operating and Storage Temperature: -65°C to +175°C. Reverse recovery test @ 1.0A, V_R = 30V.

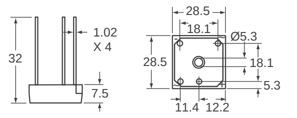
D-34A



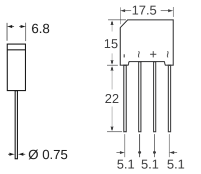
GBPC…A



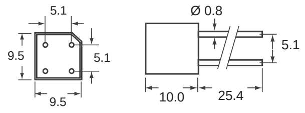
GBPC…W



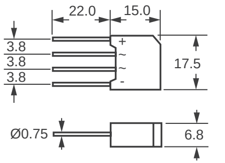
D-37



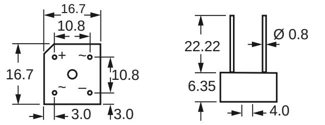
D-38



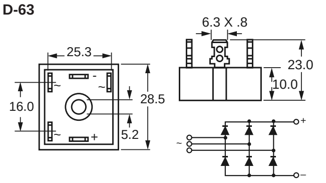
D-44



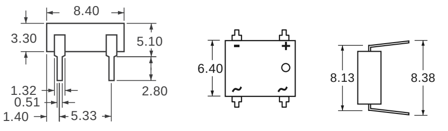
D-46



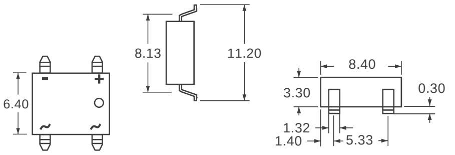
D-63



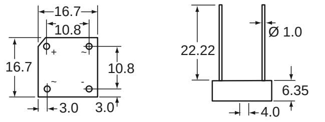
D-70



D-71



D-72



Operating Temperature Range: -40°C to + 150°C. Storage Temperature Range: -40°C to +150°C

Pkg.	Max. Peak Reverse Volt.(V)	Max. Surge Current 10ms(A)	Max. Instant Forward Volt. (V)	Max. Ave. Rectified Current (A)	Digi-Key Part No.	Price Each		
						1	10	100
D-34A	50	350	1.1	25	26MB05A-ND	5.31	4.25	3.19
	100	350	1.1	25	26MB10A-ND	6.38	5.10	3.14
	200	350	1.1	25	26MB20A-ND	5.76	4.61	3.46
	600	350	1.1	25	26MB60A-ND	6.75	5.40	3.26
	1000	350	1.1	25	26MB100A-ND	7.31	5.85	4.39
	1400	350	1.1	25	26MB140A-ND	9.68	7.74	5.81
	1600	350	1.1	25	26MB160A-ND	10.49	8.39	6.30
	50	420	1.2	35	36MB05A-ND	5.63	4.50	3.38
	100	420	1.2	35	36MB10A-ND	5.92	4.74	3.56
	200	420	1.2	35	36MB20A-ND	6.05	4.85	3.64
	400	420	1.2	35	36MB40A-ND	6.85	5.48	3.65
	600	420	1.2	35	36MB60A-ND	7.00	5.60	3.72
	800	420	1.2	35	36MB80A-ND	7.10	5.68	3.78
	1000	420	1.2	35	36MB100A-ND	7.75	6.21	3.95
	1200	420	1.2	35	36MB120A-ND	8.13	6.50	4.10
	1400	420	1.2	35	36MB140A-ND	11.76	9.41	6.26
	1600	420	1.2	35	36MB160A-ND	14.20	11.36	7.56
GBPC-A	200	350	1.1	25	GBPC2502A-ND	2.70	2.16	1.62
	200	350	1.1	35	GBPC3502A-ND	3.02	2.42	1.81
	400	350	1.1	25	GBPC2504A-ND	2.75	2.20	1.65
	600	350	1.1	25	GBPC2506A-ND	2.79	2.24	1.68
	800	350	1.1	25	GBPC2508A-ND	2.84	2.27	1.71
	400	420	1.1	35	GBPC3504A-ND	2.88	2.31	1.73
	600	420	1.1	35	GBPC3506A-ND	2.97	2.38	1.79
	800	420	1.1	35	GBPC3508A-ND	3.02	2.42	1.81
	1000	420	1.1	35	GBPC3510A-ND	3.08	2.47	1.85
	1200	420	1.1	35	GBPC3512A-ND	3.15	2.52	1.89
GBPC-W	200	335	1.1	25	GBPC2502W-ND	2.70	2.16	1.62
	400	335	1.1	25	GBPC2504W-ND	2.79	2.24	1.68
	600	335	1.1	25	GBPC2506W-ND	3.15	2.52	1.89
	800	335	1.1	25	GBPC2508W-ND	2.90	2.33	1.75
	200	400	1.1	35	GBPC3502WIR-ND	2.88	2.31	1.73
	400	400	1.1	35	GBPC3504W-ND	2.93	2.34	1.76
	600	400	1.1	35	GBPC3506W-ND	2.97	2.38	1.79
	800	475	1.1	35	GBPC3508W-ND	3.08	2.47	2.02
	1000	400	1.1	35	GBPC3510W-ND	3.15	2.52	1.89
	1200	400	1.1	35	GBPC3512W-ND	3.22	2.58	1.94
D-37	50	52	1.1	1.9	2KBB05-ND	.65	.53	.40
	50	52	1.1	1.9	2KBB05R-ND*	.65	.53	.40
	100	52	1.1	1.9	2KBB10-ND	.68	.54	.41
	100	52	1.1	1.9	2KBB10R-ND*	.68	.54	.41
	200	52	1.1	1.9	2KBB20-ND	.70	.56	.42
	200	52	1.1	1.9	2KBB20R-ND*	.70	.56	.42
	400	52	1.1	1.9	2KBB40-ND	.72	.58	.44
	400	52	1.1	1.9	2KBB40R-ND*	.72	.58	.44
	600	52	1.1	1.9	2KBB60-ND	.74	.60	.45
	600	52	1.1	1.9	2KBB60R-ND*	.74	.60	.45
	800	52	1.1	1.9	2KBB80-ND	.77	.62	.46
	800	52	1.1	1.9	2KBB80R-ND*	.77	.62	.46
	1000	52	1.1	1.9	2KBB100-ND	.79	.63	.48
	1000	52	1.1	1.9	2KBB100R-ND*	.79	.63	.48
D-38	50	52	1	1.5	1KAB05E-ND	.52	.42	.32
	100	52	1	1.5	1KAB10E-ND	.52	.42	.32
	400	52	1	1.5	1KAB40E-ND	.52	.42	.32
	600	52	1	1.5	1KAB60E-ND	.54	.44	.33
	800	52	1	1.5	1KAB80E-ND	.59	.47	.36
	1000	52	1	1.5	1KAB100E-ND	.77	.62	.46

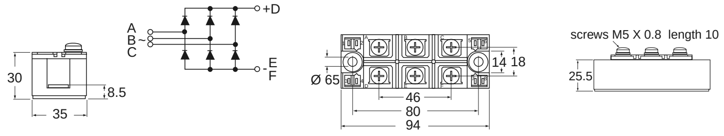
* Pin Configuration: - ~ ~ +

Pkg.	Max. Peak Reverse Volt.(V)	Max. Surge Current 10ms(A)	Max. Instant Forward Volt. (V)	Max. Ave. Rectified Current (A)	Digi-Key Part No.	Price Each		
						1	10	100
D-44	50	63	1	2	2KBP005-ND	.73	.58	.35
	100	63	1	2	2KBP01-ND	.68	.54	.41
	200	63	1	2	2KBP02-ND	.70	.56	.42
	400	63	1	2	2KBP04-ND	.72	.58	.44
	600	63	1	2	2KBP06-ND	.74	.60	.45
	800	63	1	2	2KBP08-ND	.77	.62	.46
	1000	63	1	2	2KBP10-ND	.79	.63	.48
D-46	50	50	1	3	KBPC1005-ND	.63	.51	.38
	100	50	1	3	KBPC101-ND	.65	.53	.40
	200	55	1	3	KBPC102-ND	.78	.62	.42
	400	55	1	3	KBPC104-ND	1.63	1.30	.88
	600	50	1	3	KBPC106-ND	.79	.63	.48
	800	50	1	3	KBPC108-ND	.81	.65	.49
	1000	50	1	3	KBPC110-ND	.86	.69	.52
D-63	100	360	1.26	25	26MT10-ND	14.11	11.29	8.47
	200	360	1.26	25	26MT20-ND	14.15	11.33	8.50
	400	360	1.26	25	26MT40-ND	14.18	11.34	8.51
	600	360	1.26	25	26MT60-ND	14.36	11.49	8.62
	1000	360	1.26	25	26MT100-ND	16.25	13.00	9.75
	1200	360	1.26	25	26MT120-ND	17.15	13.72	10.29
	1400	360	1.26	25	26MT140-ND	18.20	14.57	10.93
	1600	360	1.26	25	26MT160-ND	20.48	16.38	12.29
	100	475	1.26	25	36MT10-ND	14.87	11.90	8.93
	200	475	1.26	25	36MT20-ND	14.96	11.97	8.98
	400	300	1.19	35	36MT40-ND	16.83	13.46	8.96
	600	475	1.19	35	36MT60-ND	15.37	12.30	9.23
	800	475	1.19	35	36MT80-ND	15.59	12.48	9.36
	1000	475	1.19	35	36MT100-ND	17.82	14.26	10.70
	1200	475	1.19	35	36MT120-ND	18.72	14.98	11.24
	1400	475	1.19	35	36MT140-ND	20.86	16.69	12.52
	1600	420	1	35	36MT160-ND	26.05	20.84	13.85
D-70	50	40	1	1	DF005MIR-ND	.40	.32	.28
	100	30	1	1	DF01MIR-ND	.35	.28	.25
	200	40	1	1	DF02MIR-ND	.35	.28	.25
	400	40	1	1	DF04MIR-ND	.38	.30	.27
	600	30	1	1	DF06MIR-ND	.40	.32	.28
	800	31	1	1	DF08MIR-ND	.38	.31	.23
	1000	31	1	1	DF10MIR-ND	.43	.34	.26
D-71	50	40	1	1	DF005SIR-ND	.40	.32	.28
	100	31	1	1	DF01STRR16CT-ND	.42	.32	.25
	100	31	1	1	DF01STRR16TR-ND	236.25/1,250		
	100	40	1	1	DF01SIR-ND	.35	.28	.25
	200	31	1	1	DF02STRR16CT-ND	.45	.34	.27
	200	31	1	1	DF02STRR16TR-ND	253.13/1,250		
	200	40	1	1	DF02SIR-ND	.38	.30	.27
	400	31	1	1	DF04SIR-ND	.36	.29	.22
	600	31	1	1	DF06SIR-ND	.38	.31	.23
	800	31	1	1	DF08SIR-ND	.38	.31	.23
	1000	31	1	1	DF10SIR-ND	.38	.31	.23
D-72	50	109	1	6	KBPC6005-ND	1.80	1.44	1.08
	100	109	1	6	KBPC601-ND	1.85	1.48	1.11
	200	109	1	6	KBPC602-ND	1.87	1.50	1.13
	400	137	1.2	6	KBPC604-ND	1.87	1.50	1.01
	600	109	1	6	KBPC606-ND	2.03	1.62	1.22

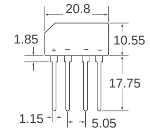
(Continued)

Bridge Rectifiers *(Cont.)*

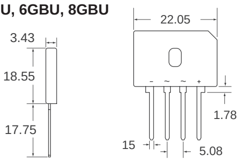
INT-A-Pak



4GBL



4GBU, 6GBU, 8GBU

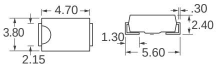


Pkg.	Peak Reverse Volt.(V)	Surge Current 10ms(A)	Instant Forward Volt. (V)	Ave. Rectified Current (A)	Digi-Key Part No.	Price Each 1	10	100
D-72	800	109	1	6	KBPC608-ND	2.18	1.75	1.31
	1000	109	1	6	KBPC610-ND	2.36	1.89	1.42
	50	137	1	8	KBPC8005-ND	1.98	1.59	1.19
	100	137	1	8	KBPC801-ND	2.03	1.62	1.22
	200	137	1	8	KBPC802-ND	2.07	1.66	1.25
	400	137	1	8	KBPC804-ND	2.12	1.70	1.27
	600	137	1	8	KBPC806-ND	2.27	1.82	1.37
	800	137	1	8	KBPC808-ND	2.43	1.95	1.46
	1000	137	1	8	KBPC810-ND	2.59	2.07	1.56
INT-A-Pak	1600	390	2.5	55	51MT160KB-ND	108.60	97.74	72.23
4GBL	50	158	1.1	4	4GBL005-ND	1.23	.66	.59
	100	158	1.1	4	4GBL01-ND	1.33	.70	.63
	200	158	1.1	4	4GBL02-ND	1.40	.76	.68
	400	158	1.1	4	4GBL04-ND	1.44	.82	.70
	600	158	1.1	4	4GBL06-ND	1.52	.88	.73
	800	158	1.1	4	4GBL08-ND	1.62	.94	.78
4GBU	50	158	1.0	4	4GBU005-ND	1.29	.68	.62

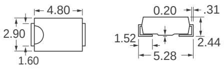
Pkg.	Peak Reverse Volt.(V)	Surge Current 10ms(A)	Instant Forward Volt. (V)	Ave. Rectified Current (A)	Digi-Key Part No.	Price Each 1	10	100
4GBU	100	158	1.0	4	4GBU01-ND	1.37	.74	.67
	200	158	1.0	4	4GBU02-ND	1.40	.80	.68
	400	158	1.0	4	4GBU04-ND	1.48	.86	.72
	600	158	1.0	4	4GBU06-ND	1.59	.92	.77
	800	158	1.0	4	4GBU08-ND	1.67	.95	.79
6GBU	50	182	1.0	6	6GBU005-ND	1.40	.80	.68
	100	182	1.0	6	6GBU01-ND	1.48	.86	.72
	200	182	1.0	6	6GBU02-ND	1.59	.92	.77
	400	182	1.0	6	6GBU04-ND	1.67	.95	.79
	600	182	1.0	6	6GBU06-ND	1.74	.99	.81
	800	182	1.0	6	6GBU08-ND	1.84	1.05	.85
8GBU	50	210	1.0	8	8GBU005-ND	1.55	.90	.75
	100	210	1.0	8	8GBU01-ND	1.63	.93	.77
	200	210	1.0	8	8GBU02-ND	1.71	.97	.79
	400	210	1.0	8	8GBU04-ND	1.81	1.03	.84
	600	210	1.0	8	8GBU06-ND	1.91	1.09	.89
	800	210	1.0	8	8GBU08-ND	2.01	1.14	.93

Schottky Rectifiers

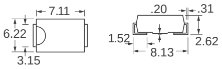
SMB



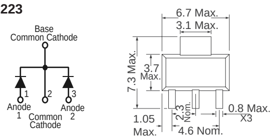
SMA



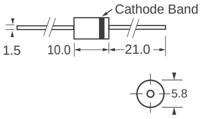
SMC



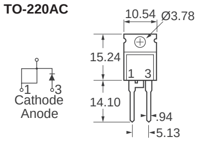
SOT-223



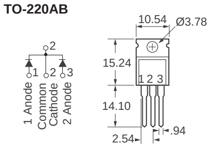
C-16



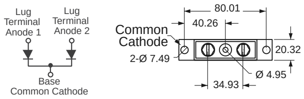
TO-220AC



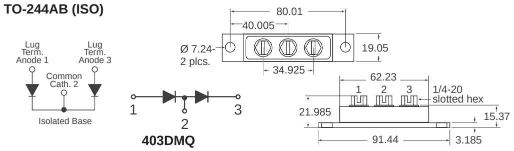
TO-220AB



TO-244AB



TO-244AB (ISO)

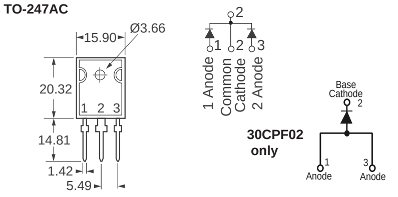


IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
					SMB			
1	15	0.34	140	-55 to 150	10BQ015-ND	.25	.20	.15
1	15	0.34	140	-55 to 150	10BQ015TR-ND		420.00/3,000	
1	15	0.42	230	-55 to 125	MBRS130CT-ND	.45	.27	.17
1	30	0.42	230	-55 to 125	MBRS130TR-ND		372.00/3,000	
1	30	0.30	230	-55 to 125	MBRS130LCT-ND	.74	.43	.29
1	30	0.30	230	-55 to 125	MBRS130LTR-ND		590.18/3,000	
1	30	0.30	360	-55 to 150	STPS1L30UCT-ND	.40	.24	.16
1	30	0.30	360	-55 to 150	STPS1L30UTR-ND		327.00/3,000	
1	30	0.30	430	-55 to 150	10BQ030-ND	.45	.27	.17
1	40	0.53	430	-55 to 150	10BQ040-ND	.43	.26	.18
1	40	0.53	430	-55 to 150	10BQ040TR-ND		390.00/3,000	
1	40	0.53	380	-55 to 150	MBRS140CT-ND	.40	.24	.16
1	40	0.53	380	-55 to 150	MBRS140TR-ND		327.00/3,000	
1	60	0.57	700	-55 to 150	10BQ060-ND	.24	.19	.14
1	60	0.57	700	-55 to 150	10BQ060TR-ND		408.00/3,000	
1	90	0.63	870	-55 to 175	MBRS190CT-ND	.40	.24	.16
1	90	0.63	870	-55 to 175	MBRS190TR-ND		327.00/3,000	
1	100	0.78	780	-55 to 175	10BQ100-ND	.51	.31	.22
1	100	0.78	780	-55 to 175	10BQ100TR-ND		477.00/3,000	
1	100	0.63	870	-55 to 175	MBRS1100CT-ND	.40	.24	.16
1	100	0.63	870	-55 to 175	MBRS1100TR-ND		327.00/3,000	
2	30	0.370	350	-55 to 150	20BQ030CT-ND	.51	.30	.21
2	30	0.370	350	-55 to 150	20BQ030TR-ND		459.00/3,000	
					SMA			
1.5	40	0.54	120	-55 to 150	10MQ040N-ND	.45	.27	.19
1.5	40	0.54	120	-55 to 150	10MQ040NTR-ND		967.50/7,500	
2.1	40	0.42	330	-40 to 150	15MQ040N-ND	.68	.42	.30
2.1	40	0.42	330	-40 to 150	15MQ040NTR-ND		1590.00/7,500	
1	40	0.49	120	-55 to 150	MBRA140CT-ND	.31	.18	.12
1	40	0.49	120	-55 to 150	MBRA140TR-ND		562.50/7,500	
1.5	60	0.63	40	-55 to 150	10MQ060N-ND	.39	.23	.16
1.5	60	0.63	40	-55 to 150	10MQ060NTR-ND		817.50/7,500	
1.5	100	0.78	120	-55 to 150	10MQ100N-ND	.20	.16	.12
1.5	100	0.78	120	-55 to 150	10MQ100NTR-ND		817.50/7,500	
					SMC			
3	15	0.35	650	-55 to 100	30BQ015-ND	.75	.60	.43
3	15	0.35	650	-55 to 100	30BQ015TR-ND		1206.00/3,000	
3	40	0.51	2000	-55 to 150	30BQ040-ND	.50	.40	.29
3	40	0.51	2000	-55 to 150	30BQ040TR-ND		810.00/3,000	
3	40	0.43	1580	-55 to 150	MBRS340CT-ND	.65	.33	.26
3	40	0.43	1580	-55 to 150	MBRS340TR-ND		564.00/3,000	

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
3	60	0.58	1200	-55 to 150	30BQ060-ND	.50	.40	.29
3	60	0.58	1200	-55 to 150	30BQ060TR-ND		801.00/3,000	
3	60	0.61	790	-55 to 150	MBRS360CT-ND	1.10	.55	.44
3	60	0.61	790	-55 to 150	MBRS360TR-ND		990.00/3,000	
3	100	0.79	2100	-55 to 175	30BQ100-ND	.75	.48	.36
3	100	0.79	2100	-55 to 175	30BQ100TR-ND		816.00/3,000	
					SOT-223			
2	45	0.54	390	-55 to 150	20CJQ045-ND	.53	.42	.30
2	60	0.56	385	-55 to 150	20CJQ060-ND	.95	.76	.57
2	100	0.56	385	-55 to 150	20CJQ100-ND	.99	.80	.60
					C-16			
3.3	40	0.55	470	-40 to 150	31DQ04-ND	.84	.71	.49
3.0	40	0.6	430	-40 to 150	MBR340-ND	.51	.30	.21
3.0	50	0.73	460	-40 to 150	MBR350-ND	.51	.30	.21
3.3	50	0.58	340	-40 to 150	31DQ05-ND	.57	.46	.33
3.0	60	0.73	460	-40 to 150	MBR360-ND	.51	.30	.21
3.3	60	0.58	340	-40 to 150	31DQ06-ND	.58	.50	.34
3.3	60	0.58	340	-40 to 150	31DQ06TR-ND		248.40/1,200	
3.3	90	0.85	210	-40 to 150	31DQ09-ND	.91	.77	.54
3.3	90	0.85	210	-40 to 150	31DQ09TR-ND		434.40/1,200	
3.3	100	0.85	210	-40 to 150	31DQ10-ND	.83	.51	.38
3.3	100	0.85	210	-40 to 150	31DQ10TR-ND		332.40/1,200	
					TO-220AC			
19	15	0.32	700	-55 to 100	19TQ015-ND	2.45	1.69	1.35
20	15	0.25	700	-55 to 125	20L15T-ND	1.31	1.05	.79
20	15	0.25	700	-55 to 125	STPS20L15D-ND	1.40	.80	.68
6	35	0.53	690	-55 to 175	6TQ035-ND	1.80	1.44	1.08
7.5	35	0.84	690	-65 to 150	MBR735-ND	.81	.65	.52
10	35	0.49	1050	-55 to 175	10TQ035-ND	1.73	1.39	1.04
10	35	0.84	1080	-65 to 150	MBR1035-ND	1.17	.94	.75
15	35	0.50	990	-55 to 150	12TQ035-ND	1.73	1.39	1.04
16	35	0.63	1060	-65 to 150	MBR1635-ND	1.50	1.20	.96
18	35	0.6	1800	-55 to 175	18TQ035-ND	2.00	1.60	1.14
20	35	0.51	1800	-55 to 150	20TQ035-ND	1.89	1.52	1.14
6	40	0.53	690	-55 to 175	6TQ040-ND	1.87	1.50	1.13
10	40	0.49	1050	-55 to 175	10TQ040-ND	1.82	1.46	1.10
15	40	0.50	990	-55 to 150	12TQ040-ND	1.85	1.48	1.11
18	40	0.53	1800	-55 to 175	18TQ040-ND	1.91	1.53	1.15
20	40	0.51	1800	-55 to 150	20TQ040-ND	2.00	1.61	1.21
7.5	45	0.57	690	-65 to 150	MBR745-ND	1.09	.67	.49
10	45	0.57	1050	-65 to 150	MBR1045-ND	.94	.84	.75

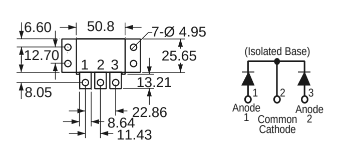
(Continued)

TO-247AC

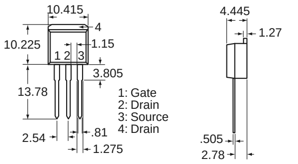


30CPF02 only

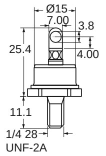
TO-249AA



TO-262

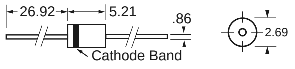


DO-5

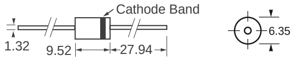


Cathode to stud

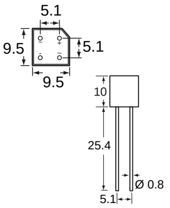
DO-41



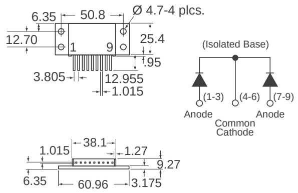
DO-204AR



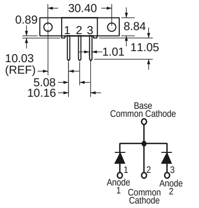
D-38



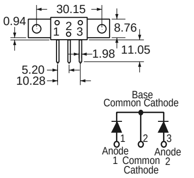
D-60



D61-6



D61-8



IF	VRRM	VF	IFSM(A) @	TJ Junction	Digi-Key	Price Each		
(A)	(V)	(V)	tp = 5µs Sine	Temp (°C)	Part No.	1	10	100
15	45	0.50	990	-55 to 150	12TQ045-ND	1.94	1.55	1.17
16	45	0.57	1800	-65 to 150	MBR1645-ND	1.20	1.07	.96
6	45	0.53	690	-55 to 175	6TQ045-ND	2.23	1.78	1.19
10	45	0.57	1050	-55 to 175	10TQ045-ND	1.00	.80	.57
18	45	0.6	1800	-55 to 175	18TQ045-ND	2.39	1.61	1.26
20	45	0.57	1800	-65 to 150	20TQ045-ND	1.88	1.50	1.08
8	60	0.72	850	-55 to 175	8TQ060-ND	1.00	.80	.58
8	80	0.72	850	-55 to 175	8TQ080-ND	1.89	1.52	1.08
8	100	0.58	850	-55 to 175	8TQ100-ND	2.22	1.44	1.33
TO-220AB								
40	15	0.41	700	-55 to 125	40L15CT-ND	2.63	2.10	1.30
40	15	0.25	700	-55 to 125	STPS40L15CT-ND	2.30	1.61	1.22
40	20	0.34	1000	-55 to 150	47CTQ020-ND	2.39	1.91	1.44
30	25	0.40	900	-55 to 150	32CTQ025-ND	2.36	1.89	1.42
12	30	0.53	690	-55 to 175	12CTQ030-ND	1.76	1.41	1.06
30	30	0.73	1060	-65 to 150	MBR2535CT-ND	1.86	1.49	1.19
30	30	0.37	—	-55 to 150	STPS30L30CT-ND	1.81	1.03	.84
15	35	0.72	690	-65 to 150	MBR1535CT-ND	1.14	.92	.73
30	30	0.40	900	-55 to 150	32CTQ030-ND	2.40	1.64	1.30
40	30	0.48	1100	-55 to 150	42CTQ030-ND	3.20	2.56	2.05
20	35	0.57	1060	-65 to 150	MBR2035CT-ND	1.37	1.10	.83
12	35	0.53	690	-55 to 175	12CTQ035-ND	1.64	1.32	.99
15	35	0.51	810	-55 to 150	15CTQ035-ND	1.64	1.32	.99
20	35	0.57	1060	-55 to 175	20CTQ035-ND	2.03	1.62	1.22
30	35	0.50	990	-55 to 150	25CTQ035-ND	2.48	1.98	1.49
30	35	0.62	1060	-55 to 175	30CTQ035-ND	1.45	1.16	.83
15	40	0.51	810	-55 to 150	15CTQ040-ND	1.69	1.35	1.02
12	40	0.53	690	-55 to 175	12CTQ040-ND	1.69	1.35	1.02
20	40	0.57	1060	-55 to 175	20CTQ040-ND	2.03	1.62	1.22
30	40	0.56	1060	-55 to 175	30CTQ040-ND	2.12	1.70	1.27
30	40	0.50	990	-55 to 150	25CTQ040-ND	2.54	2.04	1.53
15	45	0.51	810	-55 to 150	15CTQ045-ND	1.76	1.41	1.06
40	45	0.6	1020	-65 to 150	MBR4045CT-ND	1.46	1.17	.88
15	45	0.57	690	-65 to 150	MBR1545CT-ND	.89	.81	.73
20	45	0.57	1060	-65 to 150	MBR2045CT-ND	1.46	1.32	1.19
30	45	0.73	1060	-65 to 150	MBR2545CT-ND	1.46	1.32	1.19
30	45	0.76	1060	-65 to 150	MBR3045CT-ND	2.60	2.08	1.71
45	45	0.53	690	-55 to 175	12CTQ045-ND	1.95	1.56	1.04
20	45	0.64	1060	-55 to 175	20CTQ045-ND	1.63	1.30	.94
30	45	0.62	1060	-55 to 175	30CTQ045-ND	2.18	1.74	1.29
40	45	0.53	1240	-55 to 150	40CTQ045-ND	2.15	1.72	1.23
30	50	0.56	1000	-55 to 150	30CTQ050-ND	2.86	2.29	1.72
15	60	0.56	1000	-55 to 150	15TQ060-ND	2.14	1.71	1.29
30	60	0.62	1060	-55 to 150	30CTQ060-ND	1.99	1.60	1.14
40	60	0.75	1000	-55 to 150	48CTQ060-ND	2.03	1.62	1.17
20	80	0.85	850	-65 to 150	MBR2080CT-ND	1.86	1.49	1.19
16	80	0.72	850	-55 to 175	16CTQ080-ND	2.38	1.90	1.36
20	90	0.85	850	-65 to 150	MBR2090CT-ND	1.86	1.49	1.19
40	100	0.81	850	-55 to 175	43CTQ100-ND	3.15	2.52	2.02
20	100	0.7	850	-65 to 150	MBR20100CT-ND	2.03	1.33	1.02
16	100	0.72	850	-55 to 175	16CTQ100-ND	2.19	1.54	1.24
10	150	0.73	620	-55 to 175	10CTQ150-ND	2.93	2.08	1.71
TO-244AB								
220	15	0.32	10800	-55 to 100	225CNQ015-ND	32.31	25.85	19.39
400	15	0.47	4000	-55 to 175	445CNQ015-ND	50.76	40.61	31.47
220	25	0.40	22500	-55 to 150	220CNQ025-ND	31.07	24.86	18.65
220	30	0.40	22500	-55 to 150	220CNQ030-ND	31.07	24.86	18.65
440	30	0.41	27000	-55 to 150	440CNQ030-ND	52.76	42.21	31.66
200	35	0.49	26000	-55 to 150	200CNQ035-ND	30.49	24.39	18.30
200	35	0.58	16000	-55 to 175	201CNQ035-ND	30.49	24.39	18.30
300	35	0.59	16000	-55 to 175	301CNQ035-ND	31.39	25.11	18.84
400	35	0.52	29000	-55 to 150	400CNQ035-ND	47.88	38.31	28.73
400	35	0.56	25000	-55 to 175	401CNQ035-ND	47.88	38.31	28.73
200	40	0.49	26000	-55 to 150	200CNQ040-ND	30.49	24.39	18.30

IF	VRRM	VF	IFSM(A) @	TJ Junction	Digi-Key	Price Each		
(A)	(V)	(V)	tp = 5µs Sine	Temp (°C)	Part No.	1	10	100
200	40	0.58	16000	-55 to 175	201CNQ040-ND	30.49	24.39	18.30
300	40	0.62	600	-55 to 175	300CNQ040-ND	34.31	27.45	21.00
300	40	0.59	16000	-55 to 175	301CNQ040-ND	31.50	25.20	18.90
300	45	0.69	16000	-55 to 175	301CNQ045-ND	29.53	23.62	15.56
200	45	0.49	26000	-55 to 150	200CNQ045-ND	30.49	24.39	18.30
200	45	0.58	16000	-55 to 175	201CNQ045-ND	30.49	24.39	18.30
300	45	0.62	600	-55 to 175	300CNQ045-ND	34.31	27.45	21.00
400	45	0.52	29000	-55 to 150	400CNQ045-ND	47.88	38.31	28.73
400	45	0.56	25000	-55 to 175	401CNQ045-ND	47.88	38.31	28.73
200	50	0.58	16000	-55 to 175	201CNQ050-ND	30.49	24.39	18.30
300	50	0.59	16000	-55 to 175	301CNQ050-ND	31.73	25.38	19.04
400	60	0.59	25500	-55 to 150	408CNQ060-ND	17.27	13.35	11.54
200	80	0.70	16000	-55 to 175	203CNQ080-ND	45.38	36.31	27.23
300	80	0.72	22000	-55 to 175	303CNQ080-ND	44.44	35.55	26.67
400	80	0.69	25500	-55 to 175	403CNQ080-ND	52.99	42.39	31.80
200	100	0.86	16000	-55 to 175	203CNQ100-ND	45.58	36.47	29.18
200	100	0.70	16000	-55 to 175	203CNQ100R-ND	31.07	24.86	18.65
200	100	0.70	16000	-55 to 175	203DNQ100-ND	35.63	28.50	21.38
300	100	0.72	22000	-55 to 175	303CNQ100-ND	44.44	35.55	26.67
400	100	0.69	25500	-55 to 175	403CNQ100-ND	52.99	42.39	31.80
200	135	0.71	10000	-55 to 175	209CNQ135-ND	26.40	21.12	18.48
400	135	0.72	20000	-55 to 175	409CNQ135-ND	41.16	34.27	30.04
400	150	0.72	20000	-55 to 175	409CNQ150-ND	56.14	44.91	33.69
TO-244AB(ISO)								
220	30	0.40	22500	-55 to 150	220CMQ030-ND	44.91	35.93	26.95
440	30	0.41	27000	-55 to 150	440CMQ030-ND	64.04	51.23	38.43
200	45	0.58	16000	-55 to 175	201CMQ045-ND	44.06	35.25	26.44
400	45	0.52	29000	-55 to 150	400CMQ045-ND	40.18	33.48	29.38
400	45	0.52	29000	-55 to 150	400DMQ045-ND	63.68	50.94	38.21
400	45	0.56	25000	-55 to 175	401CMQ045-ND	62.82	50.26	37.70
200	60	0.59	16000	-55 to 150	208CMQ060-ND	28.50	24.00	21.00
400	60	0.59	25500	-55 to 150	408CMQ060-ND	35.45	29.55	25.93
200	80	0.70	16000	-55 to 175	203CMQ080-ND	39.92	31.94	23.95
400	80	0.69	25500	-55 to 175	403CMQ080-ND	54.86	43.89	32.92
200	100	0.70	16000	-55 to 175	203CMQ100-ND	44.91	35.93	26.95
200	100	0.70	16000	-55 to 175	203DMQ100-ND	45.56	36.45	27.34
400	100	0.69	25500	-55 to 175	403CMQ100-ND	62.89	50.31	37.74
400	100	0.72	25500	-55 to 175	403DMQ100-ND	40.18	33.48	29.38
TO-247AC								
40	15	0.25	700	-55 to 125	40L15CW-ND	2.41	1.93	1.20
40	15	0.26	700	-55 to 125	MBR40L15CW-ND	4.16	2.91	2.21
40	15	0.25	700	-55 to 125	STPS40L15CW-ND	2.60	1.81	1.40
80	20	0.32	2200	-55 to 150	80CPQ020-ND	4.50	3.60	2.70
50	30	0.38	2180	-55 to 150	52CPQ030-ND	10.13	8.10	6.08
70	30	0.51	2180	-55 to 150	72CPQ030-ND	4.23	3.38	2.42
30	35	0.50	1020	-55 to 150	30CPQ035-ND	3.24	2.60	1.95
30	35	0.76	1020	-65 to 150	MBR3035WT-ND	1.92	1.54	1.23
40	35	0.43	3500	-55 to 150	40CPQ035-ND	5.33	4.27	3.20
30	40	0.50	1020	-55 to 150	30CPQ040-ND	3.42	2.74	2.06
40	40	0.43	3500	-55 to 150	40CPQ040-ND	5.67	4.54	3.41
40	40	0.42	1240	-55 to 150	40L40CW-ND	3.38	2.70	2.03
40	40	0.43	3500	-55 to 150	STPS40L40CW-ND	3.18	2.23	1.74
45	40	0.42	1240	-55 to 150	STPS40L45CW-ND	2.43	1.70	1.29
30	45	0.60	1020	-65 to 150	MBR3045WT-ND	1.46	1.37	1.23
40	45	0.42	1240	-55 to 150	40L45CW-ND	2.41	1.93	1.45
40	45	0.59	1020	-55 to 150	MBR4045WT-ND	1.92	1.54	1.23
60	45	0.69	2900	-55 to 150	MBR6045WT-ND	2.47	1.65	1.28
30	45	0.50	1020	-55 to 150	30CPQ045-ND	4.46	3.17	2.61
40	45	0.43	3500	-55 to 150	40CPQ045-ND	5.28	3.39	3.15
30	50	0.50	1020	-55 to 150	30CPQ050-ND	4.50	3.60	2.70
40	50	0.49	3200	-55 to 150	40CPQ050-ND	6.37	5.10	3.83
40	60	0.77	3200	-55 to 150	MBR4060WT-ND	3.41	2.74	2.19
30	60	0.50	1020	-55 to 150	30CPQ060-ND	3.21	2.28	1.88
40	60	0.49	3200	-55 to 150	40CPQ060-ND	4.68	3.00	2.79
30	60	0.56	1020	-55 to 150	STPS30L60CW-ND	2.21	1.54	1.17
30	80	0.67	920	-55 to 175	30CPQ080-ND	5.63	4.50	3.38
40	80	0.61	2950	-55 to 175	40CPQ080-ND	7.94	6.36	4.77

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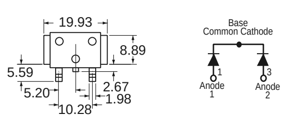
D61-8-SL



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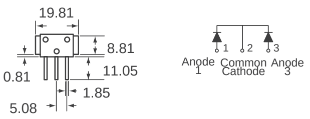
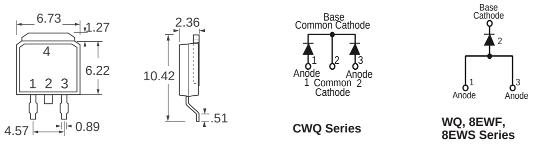


D-PAK



IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5μs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
30	90	0.67	920	-55 to +175	30CPQ090-ND	3.44	2.76	2.07
30	100	0.67	920	-55 to +175	30CPQ100-ND	4.35	3.17	2.61
40	100	.77	2950	-55 to +175	40CPQ100-ND	4.85	3.88	2.77
30	140	0.67	920	-55 to +175	30CPQ140-ND	6.44	5.15	3.87
30	150	1	1000	-55 to +175	30CPQ150-ND	6.17	4.94	3.52
TO-249AA								
160	30	0.46	7900	-55 to +150	162CNQ030-ND	28.01	22.41	16.81
160	30	0.46	7900	-55 to +150	162CMQ030-ND	29.59	23.67	17.76
300	30	0.56	10000	-55 to +150	322CNQ030-ND	34.61	27.69	20.77
160	34	0.60	6400	-55 to +150	160CMQ035-ND	28.91	23.13	17.35
160	35	0.63	11500	-55 to +175	161CMQ035-ND	28.91	23.13	17.35
160	40	0.60	6400	-55 to +150	160CMQ040-ND	28.91	23.13	17.35
160	40	0.63	11500	-55 to +175	161CMQ040-ND	28.91	23.13	17.35
160	45	0.60	6400	-55 to +150	160CNQ045-ND	26.87	21.50	16.12
160	45	0.63	11500	-55 to +175	161CNQ045-ND	27.43	21.95	16.46
160	45	0.60	6400	-55 to +150	160CMQ045-ND	28.91	23.13	17.35
160	45	0.63	11500	-55 to +175	161CMQ045-ND	28.91	23.13	17.35
160	80	0.80	9000	-55 to +175	163CMQ080-ND	30.71	24.57	18.43
160	100	0.80	9000	-55 to +175	163CNQ100-ND	29.14	23.31	17.49
160	100	0.98	9000	-55 to +175	163CMQ100-ND	28.13	22.50	16.08
TO-262								
40	20	0.34	1000	-55 to +150	47CTQ020-1-ND	2.43	1.95	1.46
32	30	0.40	900	-55 to +150	32CTQ030-1-ND	1.74	.99	.81
40	30	0.38	1100	-55 to +150	42CTQ030-1-ND	2.72	2.18	1.64
30	35	0.73	1060	-65 to +150	MBR2535CT-1-ND	1.49	1.19	.90
15	35	0.57	690	-65 to +150	MBR1535CT-1-ND	1.08	.65	.50
30	45	0.56	1060	-55 to +175	30CTQ045-1-ND	1.74	.99	.81
40	45	0.48	1240	-55 to +150	40CTQ045-1-ND	2.14	1.50	1.14
15	45	0.84	690	-65 to +150	MBR1545CT-1-ND	.92	.74	.56
20	45	0.57	1060	-65 to +150	MBR2045CT-1-ND	1.42	1.14	.86
30	45	0.73	1060	-65 to +150	MBR2545CT-1-ND	1.51	1.21	.91
30	45	0.6	1020	-65 to +150	MBR3045CT-1-ND	2.41	1.93	1.45
40	45	0.6	1020	-65 to +150	MBR4045CT-1-ND	1.53	1.23	.92
40	60	0.58	1000	-55 to +150	48CTQ060-1-ND	2.72	2.18	1.64
20	80	0.70	850	-65 to +150	MBR2080CT-1-ND	1.42	1.14	.86
20	90	0.70	850	-65 to +150	MBR2090CT-1-ND	1.46	1.17	.88
16	100	0.58	850	-55 to +175	16CTQ100-1-ND	1.30	1.04	.78
20	100	0.70	850	-65 to +150	MBR20100CT-1-ND	1.44	1.16	.87
40	100	0.67	850	-55 to +150	43CTQ100-1-ND	2.77	2.22	1.67
10	150	0.73	620	-55 to +175	10CTQ150-1-ND	.88	.70	.53
10	200	1.25	50	-65 to +175	MURB1020CT-1-ND	1.24	.99	.75
DO-5								
95	15	.46	7500	-65 to +100	95HQ015-ND	10.61	8.49	6.07
60	30	0.5	12000	-65 to +150	55HQ030-ND	10.63	8.50	6.07
50	30	0.86	800	-65 to +125	1N6097-ND	8.60	6.20	5.16
50	40	0.86	800	-65 to +125	1N6098-ND	8.60	6.20	5.16
60	35	0.75	800	-65 to +150	SD51-ND	9.45	7.56	5.67
75	35	0.63	9000	-65 to +175	75HQ035-ND	9.45	7.56	5.67
60	45	0.68	1000	-55 to +175	1N6392-ND	8.60	6.20	5.16
60	35	0.53	10800	-65 to +150	50HQ035-ND	9.34	7.47	5.61
60	35	0.58	10800	-65 to +150	51HQ035-ND	9.34	7.47	5.61
75	35	0.60	1000	-65 to +150	MBR7535-ND	9.34	7.47	5.61
85	35	0.62	9000	-65 to +175	85HQ035-ND	9.68	7.74	5.81
60	40	0.58	10800	-65 to +150	51HQ040-ND	9.45	7.56	5.67
60	40	0.53	10800	-65 to +150	50HQ040-ND	9.45	7.56	5.67
75	40	0.63	9000	-65 to +175	75HQ040-ND	9.56	7.65	5.74
85	40	0.62	9000	-65 to +175	85HQ040-ND	9.79	7.83	5.88
60	45	0.6	10800	-65 to +150	50HQ045-ND	10.50	8.40	6.00
60	45	0.58	10800	-65 to +150	51HQ045-ND	9.45	7.56	5.67
60	45	0.66	800	-65 to +150	52HQ045-ND	9.45	7.56	5.03
75	45	0.60	1000	-65 to +150	MBR7545-ND	11.03	8.82	6.62
75	45	0.71	9000	-65 to +175	75HQ045-ND	10.63	8.50	6.07
60	60	0.70	8400	-65 to +175	60HQ060-ND	9.45	7.56	5.67
60	80	0.70	8400	-65 to +175	60HQ080-ND	9.70	7.76	5.82
60	100	0.7	8400	-65 to +175	60HQ100-ND	10.80	8.64	6.17
DO-41/DO-204AL								
1.0	30	0.55	225	-40 to +150	1N5818IR-ND	.49	.28	.17
1.1	30	0.55	225	-40 to +150	11DQ03-ND	.24	.21	.14
1.1	30	0.55	225	-40 to +150	11DQ03TR-ND	425.00/5,000		
3.3	30	0.55	470	-40 to +150	31DQ03-ND	.68	.58	.40
1.0	30	0.55	225	-40 to +150	1N5819IR-ND	.40	.24	.16
1.1	40	0.55	225	-40 to +150	11DQ04-ND	.33	.19	.13
1.1	40	0.55	225	-40 to +150	11DQ04TR-ND	425.00/5,000		
1.0	50	0.65	150	-40 to +150	MBR150-ND	.49	.28	.17
1.1	50	0.58	150	-40 to +150	11DQ05-ND	.16	.13	.10
1.1	50	0.58	150	-40 to +150	11DQ05TR-ND	445.00/5,000		
1.0	60	0.65	150	-40 to +150	MBR160-ND	.42	.24	.15
1.1	60	0.58	150	-40 to +150	11DQ06-ND	.42	.25	.17
1.1	60	0.58	150	-40 to +150	11DQ06TR-ND	590.00/5,000		
1.1	90	0.85	85	-40 to +150	11DQ09-ND	.29	.25	.17
1.1	90	0.85	85	-40 to +150	11DQ09TR-ND	505.00/5,000		
1.0	100	0.68	200	-40 to +150	MBR1100-ND	.31	.18	.12
1.1	100	0.85	85	-40 to +150	11DQ10-ND	.30	.24	.17
DO-204AR								
9	15	0.31	2900	-55 to +100	95SQ015-ND	2.05	1.42	1.13
9	15	0.31	2900	-55 to +100	95SQ015TR-ND	1438.50/1,500		
8	30	0.44	2400	-55 to +175	80SQ030-ND	1.33	1.07	.80
9	30	0.42	2150	-55 to +150	90SQ030-ND	1.40	1.12	.84
8	35	0.53	2400	-55 to +175	80SQ035-ND	1.45	1.16	.84
8	35	0.53	2400	-55 to +175	80SQ035TR-ND	1174.50/1,500		
9	35	0.42	2150	-55 to +150	90SQ035-ND	1.42	1.14	.86
8	40	0.53	2400	-55 to +175	80SQ040-ND	1.48	1.19	.85
9	40	0.48	2150	-55 to +150	90SQ040-ND	1.60	1.28	.91
8	45	0.53	2400	-55 to +175	80SQ045-ND	1.87	1.24	.96
8	45	0.53	2400	-55 to +175	80SQ045TR-ND	1174.50/1,500		
9	45	0.48	2150	-55 to +150	90SQ045-ND	1.46	1.17	.84
9	45	0.48	2150	-55 to +150	90SQ045TR-ND	1180.50/1,500		
5	60	0.65	225	-65 to +150	50SQ060-ND	1.71	1.37	1.03
5	80	0.66	1900	-55 to +175	50SQ080-ND	1.50	1.20	.86
5	100	0.52	1900	-55 to +175	50SQ100-ND	1.44	.93	.86
5	100	0.52	1900	-55 to +175	50SQ100TR-ND	1215.00/1,500		
D-38								
1.2	200	1.1	50	-40 to +150	1KAB20E-ND	.52	.42	.28
D-60								
150	15	0.80	—	-55 to +175	155CMQ015-ND	21.74	17.39	13.92
150	30	0.65	9200	-55 to +175	152CMQ030-ND	29.59	23.67	17.76
150	35	0.60	6600	-55 to +150	150CMQ035-ND	28.91	23.13	17.35
150	35	0.65	9200	-55 to +175	151CMQ035-ND	28.91	23.13	17.35
150	40	0.60	6600	-55 to +150	150CMQ040-ND	28.91	23.13	17.35
150	40	0.65	9200	-55 to +175	151CMQ040-ND	28.91	23.13	17.35
150	45	0.60	6600	-55 to +150	150CMQ045-ND	28.91	23.13	17.35
150	45	0.65	9200	-55 to +175	151CMQ045-ND	28.91	23.13	17.35
150	45	0.60	6600	-55 to +150	150CNQ045-ND	26.87	21.50	16.12
150	80	0.80	7000	-55 to +175	153CMQ080-ND	30.71	24.57	18.43
150	100	0.80	7000	-55 to +175	153CMQ100-ND	30.71	24.57	18.43
D61-6								
60	30	0.46	4600	-55 to +150	62CNQ030-ND	16.50	13.20	9.43
D61-8								
80	15	0.36	5200	-55 to +100	85CNQ015A-ND	17.55	14.04	10.03
110	15	0.33	5050	-55 to +125	115CNQ015A-ND	13.20	10.20	8.82
80	20	0.32	6000	-55 to +150	87CNQ020A-ND	14.23	11.00	9.52
80	30	0.47	5100	-55 to +150	82CNQ030A-ND	16.88	13.50	9.64
110	30	0.39	5100	-55 to +150	112CNQ030A-ND	13.20	10.20	8.82
80	35	0.47	5800	-55 to +150	80CNQ035A-ND	14.56	11.26	9.74
80	35	0.54	4600	-55 to +175	81CNQ035A-ND	14.56	11.26	9.74
80	40	0.47	5800	-55 to +150	80CNQ040A-ND	14.56	11.26	9.74
80	40	0.54	4600	-55 to +175	81CNQ040A-ND	14.56	11.26	9.74
80	45	0.54	4600	-55 to +175	81CNQ045A-ND	14.56	11.26	9.74
110	45	0.55	4000	-55 to +175	111CNQ045A-ND	13.20	10.20	8.82
110	45	0.5	5400	-55 to +150	110CNQ045A-ND	13.20	10.20	8.82
80	60	0.56	5000	-55 to +150	88CNQ060A-ND	11.30	8.72	7.50
80	80	0.67	7000	-55 to +175	83CNQ080A-ND	14.85	11.48	9.93
80	100	0.81	7000	-55 to +175	83CNQ100A-ND	16.88	13.50	9.64
110	100	0.67	7000	-55 to +175	113CNQ100A-ND	13.20	10.20	8.82
80	135	0.69	4300	-55 to +175	89CNQ135A-ND	14.23	11.00	9.52
80	150	0.69	4300	-55 to +175	89CNQ150A-ND	14.23	11.00	9.52
D61-8-SL								
80	15	0.32	5200	-55 to +100	85CNQ015ASL-ND	14.21	10.99	9.50
110	15	0.33	5050	-55 to +125	115CNQ015ASL-ND	13.42	10.37	8.97
80	20	0.32	6000	-55 to +150	87CNQ020ASL-ND	14.23	11.00	9.52
110	30	0.39	5100	-50 to +150	112CNQ030ASL-ND	13.42	10.37	8.97
80	35	0.47	5800	-55 to +150	80CNQ035ASL-ND	13.40	10.36	8.96
80	35	0.54	4600	-55 to +175	81CNQ035ASL-ND	13.40	10.36	8.96
80	40	0.54	4600	-55 to +175	81CNQ040ASL-ND	13.40	10.36	8.96
80	45	0.54	4600	-55 to +175	81CNQ045ASL-ND	13.40	10.36	8.96
110	45	0.5	5400	-55 to +150	110CNQ045ASL-ND	13.75	10.63	9.19
110	45	0.55	4000	-55 to +175	111CNQ045ASL-ND	13.53	10.46	9.05
80	60	0.56	5000	-55 to +150	88CNQ060ASL-ND	11.30	8.72	7.50
80	80	0.67	7000	-55 to +175	83CNQ080ASL-ND	13.66	10.56	9.13
80	100	0.67	7000	-55 to +175	83CNQ100ASL-ND	13.66	10.56	9.13
110	100	0.67	7000	-55 to +175	113CNQ100ASL-ND	13.97	10.80	9.34
80	135	0.69	4300	-55 to +175	89CNQ135ASL-ND	14.23	11.00	9.52
80	150	0.69	4300	-55 to +175	89CNQ150ASL-ND	14.23	11.00	9.52
D61-8-SM								
80	15	0.32	5200	-55 to +100	85CNQ015ASM-ND	14.21	10.99	9.50
110	15	0.33	5050	-55 to +125	115CNQ015ASM-ND	13.42	10.37	8.97
80	20	0.32	6000	-55 to +150	87CNQ020ASM-ND	14.23	11.00	9.52
80	30	0.37	5100	-55 to +150	82CNQ030ASM-ND	13.66	10.56	9.13
110	30	0.39	5100	-55 to +150	112CNQ030ASM-ND	13.42	10.37	8.97
80	35	0.54	4600	-55 to +175	81CNQ035ASM-ND	13.40	10.36	8.96
80	40	0.47	5800	-55 to +150	80CNQ040ASM-ND	13.40	10.36	8.96
80	40	0.54	4600	-55 to +175	81CNQ040ASM-ND	13.40	10.36	8.96
80	45	0.47	5800	-55 to +150	80CNQ045ASM-ND	13.40	10.36	8.96

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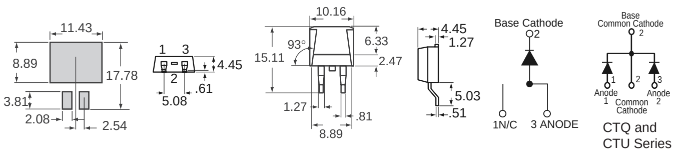
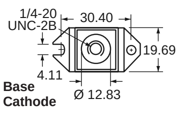
D-2PAK



HALF-PAK/D-67



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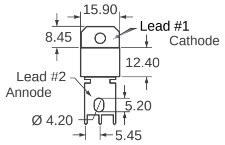

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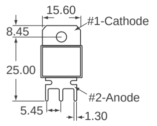
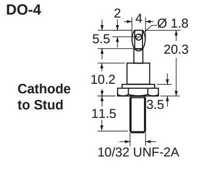


IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each		
						1	10	100
80	45	0.54	4600	-55 to 175	81CNQ045ASM-ND	13.40	10.36	8.96
110	45	0.5	5400	-55 to 150	110CNQ045ASM-ND	13.75	10.63	9.19
110	45	0.55	4000	-55 to 175	111CNQ045ASM-ND	13.53	10.46	9.05
80	60	0.56	5000	-55 to 150	88CNQ060ASM-ND	11.30	8.72	7.50
80	80	0.67	7000	-55 to 175	83CNQ080ASM-ND	13.66	10.56	9.13
100	80	0.67	7000	-55 to 175	83CNQ100ASM-ND	13.66	10.56	9.13
110	100	0.67	7000	-55 to 175	113CNQ100ASM-ND	13.97	10.80	9.34
80	135	0.69	4300	-55 to 175	89CNQ135ASM-ND	14.23	11.00	9.52
80	150	0.69	4300	-55 to 175	89CNQ150ASM-ND	14.23	11.00	9.52
D-PAK								
7	30	0.35	535	-40 to 150	6CWQ03FN-ND	.86	.69	.52
12	30	0.47	320	-55 to 150	12CWQ03FN-ND	.83	.67	.48
12	30	0.47	320	-55 to 150	12CWQ03FNTR-ND	900.00/2,000		
3.5	30	0.45	535	-40 to 150	30WQ03FN-ND	.69	.56	.40
5.5	30	0.46	320	-40 to 150	50WQ03FN-ND	.93	.74	.53
3.0	30	0.49	490	-40 to 150	MBRD330-ND	.74	.45	.32
7	40	0.53	500	-40 to 150	6CWQ04FN-ND	.68	.54	.39
7	40	0.53	500	-40 to 150	6CWQ04FNTR-ND	730.00/2,000		
12	40	0.52	320	-55 to 150	12CWQ04FN-ND	.93	.74	.53
3.5	40	0.53	500	-40 to 150	30WQ04FN-ND	.55	.44	.32
3.5	40	0.53	500	-40 to 150	30WQ04FNTR-ND	588.00/2,000		
5.5	40	0.51	340	-40 to 150	50WQ04FN-ND	.85	.68	.49
5.5	40	0.51	340	-40 to 150	50WQ04FNTR-ND	918.00/2,000		
3.0	40	0.49	490	-40 to 150	MBRD340-ND	.74	.45	.32
10	45	0.53	400	-40 to 175	10WQ045FN-ND	3.75	2.63	2.05
10	45	0.57	75	-65 to 175	STPS1045B-ND	1.76	1.04	.80
6	50	0.65	490	-40 to 150	MBRD650CT-ND	.82	.48	.36
6	60	0.65	490	-40 to 150	MBRD660CT-ND	.74	.45	.32
7	60	0.61	500	-40 to 150	6CWQ06FN-ND	.68	.54	.39
7	60	0.61	500	-40 to 150	6CWQ06FNTR-ND	730.00/2,000		
12	60	0.61	500	-55 to 150	12CWQ06FN-ND	.93	.74	.53
3.5	60	0.61	490	-40 to 150	30WQ06FN-ND	.95	.76	.54
3.5	60	0.61	490	-40 to 150	30WQ06FNTR-ND	664.00/2,000		
5.5	60	0.57	320	-40 to 150	50WQ06FN-ND	.88	.70	.51
5.5	60	0.57	320	-40 to 150	50WQ06FNTRR-ND	1419.00/3,000		
7	100	0.81	440	-40 to 150	6CWQ10FN-ND	.68	.54	.39
7	100	0.81	440	-40 to 150	6CWQ10FNTR-ND	730.00/2,000		
12	100	0.8	330	-55 to 150	12CWQ10FN-ND	.85	.68	.49
12	100	0.8	330	-55 to 150	12CWQ10FNTR-ND	918.00/2,000		
12	100	0.8	330	-55 to 150	12CWQ10FNTRR-ND	1377.00/3,000		
3.5	100	0.81	440	-40 to 150	30WQ10FN-ND	1.13	.90	.64
3.5	100	0.81	440	-40 to 150	30WQ10FNTR-ND	588.00/2,000		
5.5	100	0.77	30	-40 to 150	50WQ10FN-ND	1.42	1.14	.81
D-2PAK								
19	15	0.36	700	-55 to 100	19TQ015S-ND	2.00	1.60	1.15
19	15	0.36	700	-55 to 100	19TQ015STRL-ND	864.00/800		
20	15	0.25	700	-55 to 125	20L15TS-ND	1.52	.88	.73
40	15	0.41	700	-55 to 125	40L15CTS-ND	3.14	2.15	1.70
20	15	0.25	700	-55 to 125	STPS20L15G-ND	2.38	1.36	1.16
40	20	0.45	1000	-55 to 150	47CTQ020S-ND	2.70	2.16	1.39
30	30	0.49	1000	-55 to 150	32CTQ030S-ND	1.50	1.20	.86
30	30	0.49	1000	-55 to 150	32CTQ030STRL-ND	652.00/800		
40	30	0.48	1100	-55 to 150	42CTQ030S-ND	2.03	1.62	1.47
40	30	0.48	1100	-55 to 150	42CTQ030STRL-ND	875.20/800		
10	35	0.49	1050	-55 to 175	10TQ035S-ND	2.34	1.88	1.41
30	35	0.50	990	-55 to 150	25CTQ035S-ND	2.52	2.02	1.52
6	35	0.53	690	-55 to 175	6TQ035S-ND	1.78	1.43	1.07
12	35	0.53	690	-55 to 175	12CTQ035S-ND	1.87	1.50	1.13
15	35	0.50	990	-55 to 150	12TQ035S-ND	2.34	1.88	1.41
15	35	0.51	810	-55 to 150	15CTQ035S-ND	1.87	1.50	1.13
20	35	0.57	1060	-55 to 175	20CTQ035S-ND	2.36	1.89	1.42
20	35	0.51	1800	-55 to 150	20TQ035S-ND	2.16	1.73	1.30
30	35	0.56	1060	-55 to 175	30CTQ035S-ND	2.72	2.18	1.64
7.5	35	0.57	690	-65 to 150	MBRB735-ND	.88	.53	.39
10	35	0.57	1060	-65 to 150	MBRB1035-ND	1.06	.63	.48
15	35	0.57	690	-65 to 150	MBRB1535CT-ND	1.08	.65	.50
16	35	0.57	1800	-65 to 150	MBRB1635-ND	1.29	.68	.62
20	35	0.57	1060	-65 to 150	MBRB2035CT-ND	1.98	1.59	1.19
6	45	0.53	690	-55 to 175	6TQ045S-ND	1.82	1.46	1.10
7.5	45	0.57	690	-65 to 150	MBRB745-ND	1.72	1.03	.76
16	45	0.57	1800	-65 to 150	MBRB1645-ND	2.77	1.46	1.32
10	45	0.57	1060	-65 to 150	MBRB1045-ND	2.38	1.90	1.14
12	45	0.53	690	-55 to 175	12CTQ045S-ND	1.91	1.53	1.15
15	45	0.84	690	-65 to 150	MBRB1545CT-ND	1.40	1.12	.68
10	45	0.49	1050	-55 to 175	10TQ045S-ND	2.39	1.91	1.44
15	45	0.50	990	-55 to 150	12TQ045S-ND	2.39	1.91	1.44
15	45	0.50	990	-55 to 150	12TQ045STRR-ND	1269.60/800		
15	45	0.51	810	-55 to 150	15CTQ045S-ND	1.91	1.53	1.15
18	45	0.6	1800	-55 to 175	18TQ045S-ND	1.26	1.01	.73
20	45	0.57	1060	-55 to 175	20CTQ045S-ND	2.39	1.91	1.44
20	45	0.51	1800	-55 to 150	20TQ045S-ND	2.36	1.89	1.42
20	45	0.57	1060	-65 to 150	MBRB2045CT-ND	4.03	3.23	2.42
30	45	0.50	990	-55 to 150	25CTQ045S-ND	2.77	2.22	1.67
30	45	0.6	1020	-65 to 150	MBRB3045CT-ND	2.93	2.34	1.76
30	45	0.73	1060	-65 to 150	MBRB2545CTTRL-ND	1382.40/800		
25	45	0.73	1060	-65 to 150	MBRB2535CT-ND	2.77	2.22	1.67
30	45	0.73	1060	-65 to 150	MBRB2545CT-ND	2.88	2.31	1.73
40	45	0.6	1020	-65 to 150	MBRB4045CT-ND	3.08	2.47	1.85
30	45	0.62	1060	-55 to 175	30CTQ045S-ND	2.00	1.60	1.15
30	45	0.62	1060	-55 to 175	30CTQ045STRR-ND	864.00/800		
40	45	0.53	1240	-55 to 150	40CTQ045S-ND	3.03	2.42	1.73
15	60	0.56	1000	-55 to 150	15TQ060S-ND	2.72	2.18	1.64
30	60	0.62	1060	-55 to 150	30CTQ060S-ND	3.68	2.94	2.10
40	60	0.61	1000	-55 to 150	48CTQ060S-ND	3.03	2.42	1.73
8	80	0.72	850	-55 to 175	8TQ080S-ND	1.61	1.29	.92
16	80	0.58	850	-55 to 175	16CTQ080S-ND	3.98	3.19	2.39
20	80	0.70	850	-65 to 150	MBRB2080CT-ND	4.03	3.23	2.42
20	90	0.70	850	-65 to 150	MBRB2090CT-ND	4.03	3.23	2.42
8	100	0.72	850	-55 to 175	8TQ100S-ND	1.02	.82	.59
8	100	0.72	850	-55 to 175	8TQ100STRR-ND	440.80/800		
16	100	0.72	850	-55 to 175	16CTQ100S-ND	4.48	3.58	2.56
20	100	0.95	850	-65 to 150	MBRB20100CT-ND	1.70	1.36	1.09
20	100	0.95	850	-65 to 150	MBRB20100CTTRL-ND	592.00/800		
40	100	0.81	850	-55 to 175	43CTQ100S-ND	3.50	2.80	2.24
180	135	0.74	15000	-55 to 175	189NQ135-ND	16.50	12.75	11.03
10	150	0.93	620	-55 to 175	10CTQ150S-ND	3.35	2.69	1.92
16	400	1.19	100	-65 to 175	16CTU04S-ND	2.61	1.49	1.21
Half-Pak/D-67								
120	15	0.39	10800	-55 to 100	125NQ015-ND	16.25	13.00	9.29
120	15	0.39	10800	-55 to 100	125NQ015R-ND	18.20	14.56	10.40
180	15	0.4	15000	-55 to 100	185NQ015-ND	16.96	13.57	9.69
180	15	0.4	15000	-55 to 100	185NQ015R-ND	21.29	17.03	12.78
240	15	0.4	20000	-55 to 100	245NQ015-ND	20.18	16.14	11.53
240	15	0.4	20000	-55 to 100	245NQ015R-ND	25.20	20.16	15.12
20	30	0.41	22500	-55 to 150	122NQ030-ND	17.83	14.26	10.19
120	30	0.41	22500	-55 to 150	122NQ030R-ND	16.04	12.84	9.63
180	30	0.41	30000	-55 to 150	182NQ030-ND	20.84	16.67	12.51
240	30	0.42	27000	-55 to 150	242NQ030-ND	24.66	19.73	14.80
240	30	0.42	27000	-55 to 150	242NQ030R-ND	24.66	19.73	14.80
120	35	0.52	29000	-55 to 150	120NQ035-ND	15.71	12.57	9.43
120	35	0.56	19800	-55 to 175	121NQ035-ND	15.71	12.57	9.43
180	35	0.56	25500	-55 to 150	180NQ035-ND	20.39	16.31	12.24
180	35	0.56	22000	-55 to 175	181NQ035-ND	20.39	16.31	12.24
240	35	0.59	25000	-55 to 175	241NQ035-ND	24.14	19.32	14.49
240	35	0.55	26000	-55 to 150	240NQ035-ND	24.14	19.32	14.49
120	40	0.56	19800	-55 to 175	121NQ040-ND	15.71	12.57	9.43
120	40	0.52	29000	-55 to 150	120NQ040-ND	15.77	12.62	9.47
180	40	0.56	25500	-55 to 150	180NQ040-ND	20.39	16.31	12.24
180	40	0.56	22000	-55 to 175	181NQ040-ND	20.39	16.31	12.24
240	40	0.55	26000	-55 to 150	240NQ040-ND	24.14	19.32	14.49
240	40	0.59	25000	-55 to 175	241NQ040-ND	24.14	19.32	14.49
120	45	0.52	29000	-55 to 150	120NQ045-ND	15.86	12.69	9.52
120	45	0.52	29000	-55 to 150	120NQ045R-ND	15.86	12.69	9.52
120	45	0.56	19800	-55 to 175	121NQ045-ND	15.71	12.57	9.43
120	45	0.56	19800	-55 to 175	121NQ045R-ND	15.71	12.57	9.43
180	45	0.56	25500	-55 to 150	180NQ045-ND	20.39	16.31	12.24
180	45	0.56	25500	-55 to 150	180NQ045R-ND	20.39	16.31	12.24
180	45	0.56	22000	-55 to 175	181NQ045-ND	20.39	16.31	12.24
180	45	0.56	22000	-55 to 175	181NQ045R-ND	20.39	16.31	12.24
240	45	0.55	26000	-55 to 150	240NQ045-ND	24.14	19.32	14.49
240	45	0.55	26000	-55 to 150	240NQ045R-ND	24.14	19.32	14.49
240	45	0.59	25000	-55 to 175	241NQ045-ND	24.14	19.32	14.49
240	45	0.59	25000	-55 to 175	241NQ045R-ND	24.14	19.32	14.49
120	80	0.74	16000	-55 to 175	123NQ080-ND	16.04	12.84	9.63
240	80	0.72	25500	-55 to 175	243NQ080-ND	24.66	19.73	14.80
180	80	0.75	22000	-55 to 175	183NQ080-ND	20.84	16.67	12.51
180	100	0.95	22000	-55 to 175	183NQ100-ND	17.51	14.01	10.01
120	100	0.91	16000	-55 to 175	123NQ100-ND	17.14	13.72	9.80
120	100	0.74	16000	-55 to 175	123NQ100R-ND	16.04	12.84	9.63
180	100	0.75	22000	-55 to 175	183NQ100R-ND	20.84	16.67	12.51
240	100	0.72	25500	-55 to 175	243NQ100-ND	24.66	19.73	14.80
240	100	0.72	25500	-55 to 175	243NQ100R-ND	24.66	19.73	14.80
120	135	0.74	10000	-55 to 175	129NQ135-ND	14.48	11.19	9.68
240	135	0.72	20000	-55 to 175	249NQ135-ND	21.53	16.92	14.61
PowIRtab Short								
100	15	0.35	5000	-55 to 125	100BGQ015J-ND	4.05	3.24	2.43
100	30	0.48	4500	-55 to 150	100BGQ030J-ND	4.16	3.33	2.50
175	30	0.45	8000	-55 to 150	175BGQ030J-ND	5.92	4.74	3.56
175	45	0.45	8000	-55 to 150	175BGQ045J-ND	6.26	5.01	3.76
100	45	0.63	4400	-55 to 150	100BGQ045J-ND	4.52	3.62	2.72
PowIRtab								
100	15	0.35	5000	-55 to 125	100BGQ015-ND	4.05	3.24	2.43
100	30	0.48	4500	-55 to 150	100BGQ030-ND	4.16	3.33	2.50
175	30	0.46	8000	-55 to 150	175BGQ030-ND	6.58	5.26	2.98
100	45	0.63	4400	-55 to 150	100BGQ045-ND	4.52	3.62	2.72
175	45	0.45	8000	-55 to 150	175BGQ045-ND	6.26	5.01	3.76

Input Rectifier Diodes

DO-4



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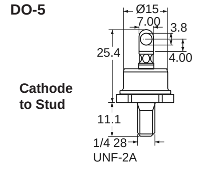
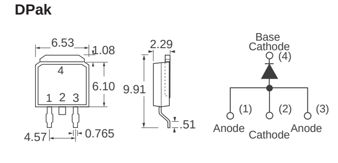


DPak



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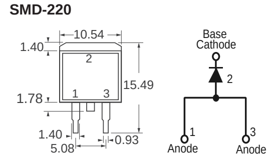

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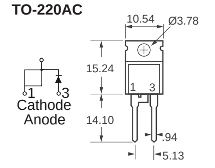

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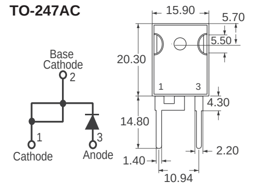
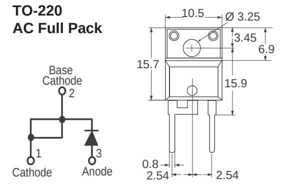


TO-220
AC Full Pack



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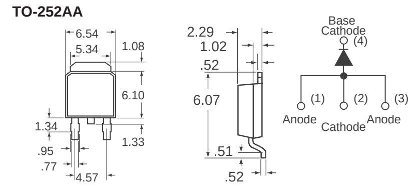
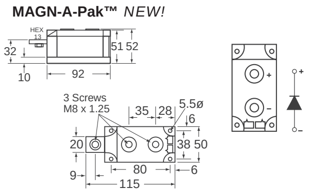


MAGN-A-Pak™ *NEW!*



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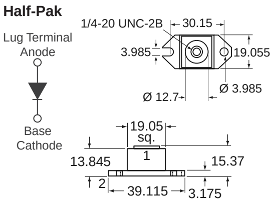

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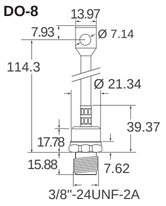

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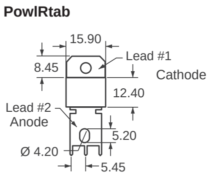

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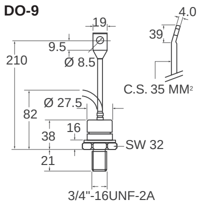

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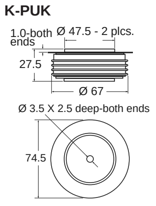

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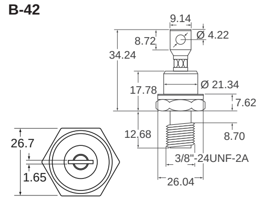

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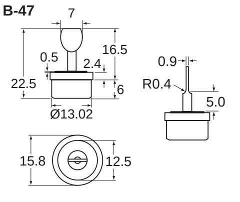

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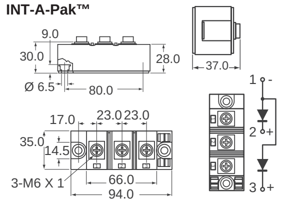
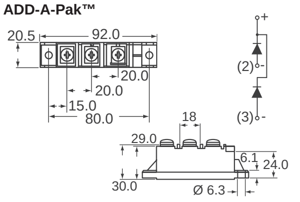


ADD-A-Pak™



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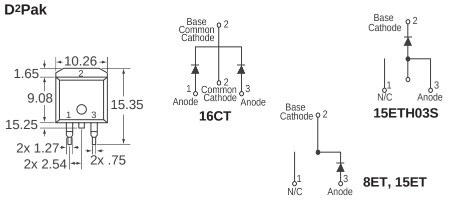

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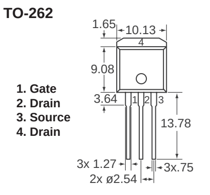

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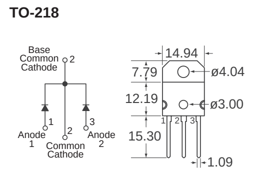
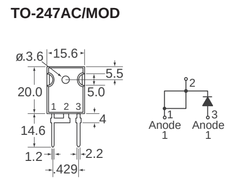
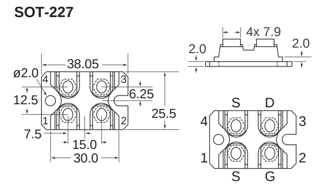


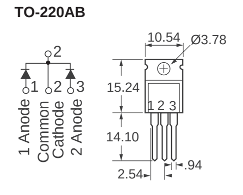
TO-247AC/MOD



SOT-227



TO-220AB



Pkg.	IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp=10ms Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each		
							1	10	100
				Standard Recovery Diodes (Discrete Circuit)					
DO-4	6	400	1.1	159	-65 to 175	6F40-ND	3.30	2.64	1.98
	6	400	1.1	159	-65 to 175	6FR40-ND*	3.30	2.64	1.98
	6	600	1.1	159	-65 to 175	6F60-ND	3.73	2.98	2.24
	6	600	1.1	159	-65 to 175	6FR60-ND*	3.73	2.98	2.24
	6	1200	1.1	159	-65 to 175	6FR120-ND*	5.99	4.79	3.60
	12	50	1.35	230	-65 to 200	1N1199A-ND	2.95	2.36	1.77
	12	100	1.26	265	-65 to 175	12F10-ND	2.93	2.34	1.76
	12	100	1.26	265	-65 to 175	12FR10-ND*	2.93	2.34	1.76
	12	100	1.35	230	-65 to 200	1N1200A-ND	2.98	2.38	1.58
	12	100	1.35	230	-65 to 200	1N1200RA-ND*	2.98	2.38	1.79
	12	150	1.35	230	-65 to 200	1N1201A-ND	3.00	2.40	1.80
	12	200	1.26	265	-65 to 175	12F20-ND	2.98	2.38	1.79
	12	200	1.26	265	-65 to 175	12FR20-ND*	2.98	2.38	1.79
	12	200	1.35	230	-65 to 200	1N1202RA-ND*	3.03	2.42	1.82
	12	300	1.35	230	-65 to 200	1N1203RA-ND*	3.13	2.50	1.88
	12	400	1.26	265	-65 to 175	12F40-ND	3.50	2.80	2.10
	12	400	1.26	265	-65 to 175	12FR40-ND*	3.50	2.80	2.10
	12	400	1.35	230	-65 to 200	1N1204A-ND	3.38	2.70	2.03
	12	600	1.35	230	-65 to 200	1N1206A-ND	3.60	2.88	1.92
	12	600	1.26	265	-65 to 175	12F60-ND	4.13	3.30	2.48
	12	600	1.26	265	-65 to 175	12FR60-ND*	4.13	3.30	2.48
	12	600	1.35	230	-65 to 200	1N1206RA-ND*	4.00	3.20	2.40
	12	800	1.26	265	-65 to 175	12F80-ND	4.55	3.64	2.73
	12	800	1.26	265	-65 to 175	12FR80-ND*	4.55	3.64	2.73
	12	1000	1.26	265	-65 to 175	12F100-ND	6.20	4.96	3.72
	12	1000	1.35	230	-65 to 200	1N3673A-ND	6.20	4.96	3.72
	12	1200	1.26	265	-65 to 175	12F120-ND	6.41	5.13	3.85
	12	1200	1.26	265	-65 to 175	12FR120-ND*	6.41	5.13	3.85
DO-5	15	50	1.5	239	-65 to 190	1N3208-ND	3.90	3.12	2.34
	15	100	1.5	239	-65 to 190	1N3209-ND	3.93	3.14	2.36
	15	400	1.5	239	-65 to 190	1N3212-ND	4.00	3.20	2.40
	15	600	1.5	239	-65 to 190	1N3214-ND	5.63	4.50	3.38
DO-4	16	100	1.23	350	-65 to 175	16F10-ND	2.98	2.38	1.79
	16	100	1.23	350	-65 to 175	16FR10-ND	2.98	2.38	1.79
	16	200	1.23	350	-65 to 175	16F20-ND	3.18	2.54	1.91
	16	200	1.23	350	-65 to 175	16FR20-ND	3.18	2.54	1.91
	16	400	0.9	350	-65 to 175	16F40-ND	4.35	3.48	2.32
	16	400	0.9	350	-65 to 175	16FR40-ND*	3.53	2.83	1.89
	16	600	1.23	350	-65 to 175	16F60-ND	4.55	3.64	2.73
	16	600	1.23	350	-65 to 175	16FR60-ND	4.55	3.64	2.73
	16	800	1.23	350	-65 to 175	16FR80-ND	4.95	3.96	2.97
	16	1000	1.23	350	-65 to 175	16F100-ND	6.65	5.32	3.99
	16	1200	1.23	370	-65 to 175	16F120-ND	5.79	4.64	3.09
	16	1200	1.23	350	-65 to 175	16FR120-ND	6.84	5.48	4.11
	25	100	1.3	356	-65 to 175	25F10-ND	3.67	2.94	2.21
	25	100	1.3	356	-65 to 175	25FR10-ND*	3.67	2.94	2.21
	25	200	1.3	356	-65 to 175	25F20-ND	3.83	3.06	2.30
	25	200	1.3	356	-65 to 175	25FR20-ND*	3.83	3.06	2.30
	25	400	1.3	356	-65 to 175	25F40-ND	3.94	3.15	2.37
	25	400	1.3	356	-65 to 175	25FR40-ND*	3.94	3.15	2.37
	25	600	1.3	356	-65 to 175	25FR60-ND*	4.16	3.33	2.50
	25	800	1.3	356	-65 to 175	25F80-ND	4.48	3.59	2.69
	25	800	1.3	356	-65 to 175	25FR80-ND*	4.48	3.59	2.69
	25	1000	1.3	356	-65 to 175	25F100-ND	6.08	4.86	3.65
	25	1000	1.3	356	-65 to 175	25FR100-ND*	6.08	4.86	3.65
	25	1200	1.3	356	-65 to 175	25F120-ND	7.20	5.76	4.32
	25	1200	1.3	356	-65 to 175	25FR120-ND*	7.20	5.76	4.32
DO-5	35	100	1.7	480	-65 to 190	1N1184-ND	3.95	3.16	2.37
	35	200	1.7	480	-65 to 190	1N1186-ND	4.38	3.50	2.63
	35	200	1.7	480	-65 to 190	1N1186R-ND*	4.38	3.50	2.63
	35	300	1.7	480	-65 to 190	1N1187-ND	5.00	4.00	3.00

* Anode to stud † tp = 8.3ms

(Continued)

International
IOR Rectifier

Input Rectifier Diodes *(Cont.)*

Pkg.	IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp=10ms Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each		
							1	10	100
DO-5	35	400	1.7	480	-65 to 190	1N1188R-ND*	5.63	4.50	3.38
	40	50	1.3	765	-65 to 200	1N1183R-ND*	4.00	3.20	2.40
	40	50	1.3	765	-65 to 200	1N1183A-ND	4.68	3.74	2.81
	40	100	1.3	765	-65 to 190	1N1184RA-ND*	4.73	3.78	2.84
	40	100	1.3	570	-65 to 160	40HFR10-ND	3.93	3.14	2.20
	40	200	1.3	765	-65 to 190	1N1186RA-ND*	4.83	3.86	2.90
	40	400	1.3	765	-65 to 190	1N1188RA-ND*	5.75	4.60	3.45
	40	200	1.3	570	-65 to 190	40HF20-ND	4.45	3.56	2.67
	40	200	1.3	570	-65 to 190	40HFR20-ND*	4.45	3.56	2.67
	40	200	0.70	570	-65 to 190	41HF20-ND	5.24	4.20	3.15
	40	400	1.3	570	-65 to 190	40HFR40-ND*	5.78	4.62	3.47
	40	600	0.70	570	-65 to 190	41HF60-ND	7.18	5.75	4.31
	40	600	1.3	765	-65 to 190	1N1190RA-ND*	6.63	5.30	3.98
	40	800	1.3	570	-65 to 190	40HF80-ND	7.43	5.94	4.46
	40	800	1.3	570	-65 to 190	40HFR80-ND*	3.71	2.97	2.23
	40	800	0.70	570	-65 to 190	41HF80-ND	7.92	6.34	4.76
	40	800	0.70	570	-65 to 190	41HFR80-ND*	7.92	6.34	4.76
	40	1000	0.70	570	-65 to 190	41HF100-ND	8.78	7.02	5.27
	40	1000	1.3	570	-65 to 160	40HFR100-ND	8.25	6.60	4.39
	40	1200	1.3	595	-65 to 190	40HF120-ND†	9.00	7.20	4.79
	40	1200	1.3	595	-65 to 190	40HFR120-ND*†	7.94	6.36	4.23
	40	1400	1.3	595	-65 to 190	40HF140-ND†	8.13	6.51	4.33
	40	1400	1.3	570	-65 to 160	40HFR140-ND*	9.00	7.20	5.40
	60	50	1.3	860	-65 to 200	1N2128A-ND	6.15	4.92	3.69
	60	100	1.3	860	-65 to 190	1N2129A-ND	6.53	5.22	3.92
	60	200	1.3	860	-65 to 190	1N2131A-ND	7.25	5.80	4.35
	60	200	1.3	860	-65 to 190	1N2131RA-ND*	7.25	5.80	4.35
	60	400	1.3	860	-65 to 190	1N2135A-ND	9.70	7.76	5.82
	60	400	1.3	860	-65 to 190	1N2135RA-ND*	9.70	7.76	5.82
	60	600	1.3	860	-65 to 190	1N2138A-ND	11.55	9.24	6.93
	60	600	1.3	860	-65 to 190	1N2138RA-ND*	11.55	9.24	6.93
	70	100	1.00	1250	-65 to 150	70HF10-ND	7.25	5.80	4.06
	70	100	1.35	1200	-65 to 180	70HFR10-ND*	6.53	5.22	3.92
	70	100	1.00	1200	-65 to 180	71HF10-ND	7.45	5.96	4.47
	70	200	0.79	1200	-65 to 150	70HF20-ND	6.90	5.52	4.14
	70	200	1.35	1200	-65 to 180	70HFR20-ND*	6.90	5.52	4.14
	70	400	1.00	1200	-65 to 180	71HF40-ND	9.00	7.20	5.40
	70	400	1.00	1200	-65 to 180	71HFR40-ND*	9.00	7.20	5.40
	70	600	1.35	1200	-65 to 180	70HFR60-ND*	9.08	7.26	5.45
	70	600	1.00	1200	-65 to 180	71HF60-ND	9.74	7.80	5.85
	70	800	0.79	1200	-65 to 150	70HF80-ND	9.90	7.92	5.94
	70	800	1.35	1200	-65 to 180	70HFR80-ND*	9.90	7.92	5.94
	70	1000	1.35	1200	-65 to 180	70HFR100-ND*	12.33	9.86	7.40
	70	1000	1.00	1200	-65 to 180	71HFR100-ND*	12.67	10.14	7.61
	70	1200	1.00	1200	-65 to 180	71HFR120-ND*	13.52	10.82	8.12
	70	1200	1.35	1250	-65 to 180	70HF120-ND†	10.34	8.27	5.52
	70	1200	1.35	1250	-65 to 180	70HFR120-ND*†	7.00	5.60	3.74
	70	1400	0.79	1200	-65 to 150	70HF140-ND	12.71	10.17	7.63
	70	1400	1.35	1200	-65 to 150	70HFR140-ND*	12.71	10.17	7.63
	70	1600	0.79	1200	-65 to 150	70HF160-ND	13.50	10.80	8.10
	70	1600	1.35	1200	-65 to 150	70HFR160-ND*	13.50	10.80	8.10
	85	100	1.2	1700	-65 to 180	85HF10-ND	8.35	6.68	5.01
	85	100	1.2	1700	-65 to 180	85HFR10-ND*	8.35	6.68	5.01
	85	200	1.2	1700	-65 to 180	85HF20-ND	8.84	7.08	5.31
	85	200	1.2	1700	-65 to 180	85HFR20-ND*	8.84	7.08	5.31
	85	400	1.2	1800	-65 to 180	85HF40-ND†	9.75	7.80	5.20
	85	1400	1.2	1700	-65 to 180	85HF140-ND	14.63	11.70	8.78
	85	400	1.2	1700	-65 to 180	85HFR40-ND*	10.40	8.32	6.24
	85	1600	1.2	1700	-65 to 180	85HF160-ND	15.53	12.42	9.32
	85	600	1.2	1700	-65 to 180	85HF60-ND	11.14	8.91	6.69
	85	600	—	1700	-65 to 180	86HF60-ND	12.71	10.17	7.63
	85	600	1.2	1700	-65 to 180	85HFR60-ND*	11.14	8.91	6.69
	85	800	1.2	1700	-65 to 180	85HF80-ND	11.88	9.51	7.13
	85	800	1.2	1700	-65 to 180	85HFR80-ND*	11.88	9.51	7.13
	85	800	—	1700	-65 to 180	86HF80-ND	13.46	10.77	8.08
	85	1200	1.2	1700	-65 to 180	85HF120-ND	13.73	10.98	8.24
	85	1200	1.2	1700	-65 to 180	85HFR120-ND*	13.73	10.98	8.24
	85	1400	1.2	1700	-65 to 150	85HFR140-ND*	14.63	11.70	8.78
	85	1600	1.2	1700	-65 to 150	85HFR160-ND*	15.53	12.42	9.32
	85	1600	—	1700	-65 to 150	86HFR160-ND*	17.10	13.68	10.26
DO-8	100	100	1.5	2200	-40 to 200	1N3288A-ND	22.30	17.84	13.38
	100	100	1.5	2200	-40 to 200	1N3288RA-ND*	22.30	17.84	13.38
	100	100	1.5	1550	-40 to 200	1N3288-ND	19.01	15.21	11.41
	100	100	1.5	1550	-40 to 200	1N3288R-ND*	19.01	15.21	11.41
	100	200	1.5	2200	-40 to 200	1N3289A-ND	21.04	16.83	12.63
	100	200	1.5	2200	-40 to 200	1N3289RA-ND	23.38	18.70	14.03
	100	200	1.5	1550	-40 to 200	1N3289R-ND*	19.91	15.93	11.95
	100	300	1.5	2200	-40 to 200	1N3290A-ND	24.05	19.24	14.43
	100	300	1.5	2200	-40 to 200	1N3290RA-ND*	24.05	19.24	14.43
	100	300	1.5	1550	-40 to 200	1N3290-ND	20.61	16.49	12.37
	100	300	1.5	1550	-40 to 200	1N3290R-ND*	20.60	16.48	12.36
	100	400	1.5	2200	-40 to 200	1N3291A-ND	24.63	19.70	14.78
	100	400	1.5	2200	-40 to 200	1N3291RA-ND*	24.63	19.70	14.78
	100	400	1.5	1550	-40 to 200	1N3291-ND	21.04	16.83	12.63
	100	400	1.5	1550	-40 to 200	1N3291R-ND*	21.04	16.83	12.63
	100	500	1.5	2200	-40 to 200	1N3292B-ND	25.43	20.34	15.26
	100	500	1.5	2200	-40 to 200	1N3292RB-ND*	25.43	20.34	15.26
	100	500	1.5	1550	-40 to 200	1N3292-ND	21.80	17.45	13.09
	100	500	1.5	1550	-40 to 200	1N3292R-ND*	21.80	17.45	13.09
	100	600	1.5	2200	-40 to 200	1N3293A-ND	26.35	21.08	15.81
DO-8	100	600	1.5	2200	-40 to 200	1N3293RA-ND*	26.35	21.08	15.81
	100	600	1.5	1550	-40 to 200	1N3293-ND	22.50	18.00	13.50
	100	600	1.5	1550	-40 to 200	1N3293R-ND*	22.50	18.00	13.50
	100	800	1.5	2200	-40 to 200	1N3294A-ND	28.33	22.66	17.00
	100	800	1.5	2200	-40 to 200	1N3294RA-ND*	28.33	22.66	17.00
	100	800	1.5	1550	-40 to 200	1N3294-ND	24.28	19.43	14.57
	100	800	1.5	1550	-40 to 200	1N3294R-ND*	24.28	19.43	14.57
	100	1000	1.5	2200	-40 to 200	1N3295A-ND	35.85	28.68	21.51
	100	1000	1.5	1550	-40 to 200	1N3295RA-ND*	35.85	28.68	21.51
	100	1000	1.5	1550	-40 to 200	1N3295R-ND	31.30	25.04	18.78
	150	50	1.33	3570	-40 to 200	150KR5A-ND*	20.25	16.20	12.15
	150	100	1.33	3570	-40 to 200	150K10A-ND	23.45	18.76	14.07
	150	100	1.33	3570	-40 to 200	150KR10A-ND*	23.45	18.76	14.07
	150	200	1.33	3570	-40 to 200	150K20A-ND	24.63	19.70	14.78
	150	300	1.33	3570	-40 to 200	150K30A-ND	25.43	20.34	15.26
	150	300	1.33	3570	-40 to 200	150KR30A-ND*	25.43	20.34	15.26
	150	400	1.33	3570	-40 to 200	150KR40A-ND*	26.00	20.80	15.60
	150	600	1.33	3570	-40 to 200	150KR60A-ND*	27.75	22.20	16.65
	150	600	1.33	3570	-40 to 200	150K60A-ND	24.98	19.98	14.99
	150	1000	1.33	3570	-40 to 200	150K100A-ND	36.38	29.10	21.83
DPak	8	800	1.1	175	-55 to 150	8EWS08S-ND	1.19	.95	.76
	8	1000	1	200	-55 to 150	8EWS10S-ND	.83	.67	.50
	8	1200	1.1	175	-55 to 150	8EWS12S-ND	1.28	1.03	.82
POWIRTAB	70	200	1.33	1000	-40 to 150	70EPF02-ND	7.81	6.25	5.00
	70	400	1.33	1000	-40 to 150	70EPF04-ND	8.06	6.45	5.16
	70	600	1.33	1000	-40 to 150	70EPF06-ND	8.80	7.04	5.63
	85	200	1.35	1250	-40 to 150	85EPF02-ND	10.23	8.19	6.55
	85	400	1.35	1250	-40 to 150	85EPF04-ND	10.58	8.47	6.77
	85	600	1.35	1250	-40 to 150	85EPF06-ND	11.53	9.23	7.38
	85	1000	1.35	1250	-40 to 150	85EPF10-ND	11.55	9.24	7.39
	85	1200	1.35	1250	-40 to 150	85EPF12-ND	11.00	8.80	7.87
TO-220AC	10	800	1.1	175	-40 to 150	10ETS08-ND	1.80	1.44	1.15
SMD-220	10	800	1.1	175	-40 to 150	10ETS08S-ND	2.09	1.68	1.34
	10	1200	1.1	170	-40 to 150	10ETS12S-ND	1.58	1.26	.95
	16	1000	1.23	350	-40 to 150	16FR100-ND	6.65	5.32	3.99
	20	800	1.1	260	-40 to 150	20ETS08S-ND	2.58	2.07	1.65
	20	1200	1.1	260	-40 to 150	20ETS12S-ND	3.44	2.75	2.20
TO-220AC	20	800	1.1	260	-40 to 150	20ETS08-ND	2.23	1.79	1.43
	20	1200	1.1	260	-40 to 150	20ETS12-ND	2.38	1.91	1.53
TO-220AC FP	10	800	1.1	170	-40 to 150	10ETS08FP-ND	1.91	1.53	1.15
	10	1200	1.1	170	-40 to 150	10ETS12FP-ND	1.94	1.55	1.17
	10	1200	1.1	170	-40 to 150	10ETS12-ND	1.40	1.12	.84
	20	400	1.3	250	-40 to 150	20ETF04FP-ND	1.58	1.26	.95
	20	800	1.3	250	-40 to 150	20ETS08FP-ND	2.08	1.66	1.25
	20	1200	1.3	250	-40 to 150	20ETS12FP-ND	2.12	1.70	1.27
TO-247AC	40	800	1.1	380	-40 to 150	40EPS08-ND	3.67	2.94	2.35
	40	1200	1.1	380	-40 to 150	40EPS12-ND	4.00	3.20	2.56
	60	800	1.1	735	-40 to 150	60EPS08-ND	5.04	4.03	3.23
	60	1200	1.1	735	-40 to 150	60EPS12-ND	4.93	3.94	3.55
	80	800	1.17	1450	-40 to 150	80EPS08-ND	5.85	4.68	3.51
	80	1200	1.17	1450	-40 to 150	80EPS12-ND	6.64	5.31	3.99
DO-9	300	800	0.89	5200	-40 to 180	300HF80P-ND	48.80	39.04	29.87
	300	800	0.61	6550	-65 to 200	300HFR80P-ND	48.80	39.04	27.96
	400	2000	0.80	8250	-40 to 190	SD400N20PC-ND	86.38	—	—
K-PUK	3800	400	0.86	35800	-40 to 180	SD3000C04K-ND	210.00	178.50	150.15
B-42	150	50	1.33	3000	-40 to 200	150KSR5-ND*	22.28	17.82	13.37
	150	50	1.33	3000	-40 to 200	150KS5-ND	22.28	17.82	13.37
	150	100	1.33	3000	-40 to 200	150KSR10-ND*	23.27	18.62	13.96
	150	100	1.33	3000	-40 to 200	150KS10-ND	23.27	18.62	13.96
	150	200	1.33	3000	-40 to 200	150KSR20-ND*	24.41	19.53	14.65
	150	200	1.33	3000	-40 to 200	150KS20-ND	24.41	19.53	14.65
	150	300	1.33	3000	-40 to 200	150KS30-ND	25.16	20.13	15.10
	150	300	1.33	3000	-40 to 200	150KSR30-ND*	25.16	20.13	15.10
	150	400	1.33	3000	-40 to 200	150KSR40-ND*	25.74	20.60	15.45
	150	400	1.33	3000	-40 - 200	150KS40-ND	25.74	20.60	15.45
	150	600	1.33	3000	-40 to 200	150KSR60-ND*	27.47	21.98	16.49
	150	600	1.33	3000	-40 to 200	150KS60-ND	27.47	21.98	16.49
B-47	50	50	1.45	714	-65 to 195	8AF05NPP-ND	3.42	2.74	2.06
	50	50	1.45	714	-65 to 195	8AF05RPP-ND*	3.42	2.74	2.06
	50	100	1.45	714	-65 to 195	8AF1NPP-ND	3.76	3.01	2.26
	50	100	1.45	714	-65 to 195	8AF1RPP-ND*	3.76	3.01	2.26
	50	200	1.45	714	-65 to 195	8AF2NPP-ND	4.07	3.26	2.45
	50	200	1.45	714	-65 to 195	8AF2RPP-ND	4.07	3.26	2.45
	50	400	1.45	714	-65 to 195	8AF4NPP-ND	4.48	3.59	2.69
	50	400	1.45	714	-65 to 195	8AF4RPP-ND	4.48	3.59	2.69
INT-A-Pak	165	1200	0.73	4200	-40 to 150	IRKD166/12-ND	70.18	58.25	49.13
	230	400	0.83	5765	-40 to 150	IRKJ236/04-ND	100.83	80.66	62.06
ADD-A-Pak	60	400	0.92	1680	-40 to 150	IRKC56/04A-ND	36.20	28.96	23.06
	60	600	1.03	1680	-40 to 150	IRKC56/06A-ND *NEW!*	29.00	23.20	20.01
Fast Recovery Diodes									
DO-4	6	50	1.4	72	-65 to 150	1N3879R-ND*	4.14	3.32	2.49
	6	100	1.4	72	-65 to 150	1N3880-ND	4.16	3.33	2.50
	6	200	1.4	72	-65 to 150	1N3881-ND	4.19	3.35	2.52

* Anode to stud † tp = 8.3ms

(Continued)

Input Rectifier Diodes *(Cont.)*

Pkg.	IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp=10ms Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each		
							1	10	100
DO-4	6	600	1.4	110	-65 to 150	6FL60S02-ND	5.94	4.76	3.57
	6	1000	1.4	115	-40 to 150	6FL100S05-ND	5.60	4.48	2.99
	12	100	1.4	145	-65 to 150	1N3890R-ND	5.28	4.22	3.17
	12	100	1.4	145	-65 to 150	12FL10S02-ND	4.14	3.32	2.49
	12	100	1.4	145	-65 to 150	1N3890-ND	4.28	3.42	2.57
	12	200	1.4	145	-65 to 150	12FL20S02-ND	4.57	3.66	2.75
	12	200	1.4	145	-65 to 150	1N3891-ND	4.30	3.44	2.58
	12	400	1.4	145	-65 to 150	12FL40S02-ND	5.65	4.52	3.39
	12	400	1.4	145	-65 to 150	12FLR40S02-ND*	5.65	4.52	3.39
	12	600	1.4	145	-65 to 150	12FL60S02-ND	6.23	4.99	3.74
	12	600	1.4	145	-65 to 150	12FLR60S02-ND*	6.23	4.99	3.74
	12	1000	1.4	145	-65 to 150	12FL100S05-ND	7.88	6.30	4.73
	12	1000	1.4	145	-65 to 150	12FLR100S05-ND*	7.88	6.30	4.73
	16	200	1.4	180	-65 to 150	16FL20S02-ND	4.79	3.84	2.88
	16	200	1.4	180	-65 to 150	16FLR20S02-ND*	4.79	3.84	2.88
	16	400	1.4	180	-65 to 150	16FL40S02-ND	5.94	4.76	3.57
	16	600	1.4	180	-65 to 150	16FL60S02-ND	6.53	5.22	3.92
	16	600	1.4	180	-65 to 150	16FL60S05-ND	5.54	4.43	3.33
	16	600	1.4	180	-65 to 150	16FLR60S02-ND*	6.53	5.22	3.92
	16	800	1.4	180	-65 to 150	16FL80S05-ND	6.12	4.90	3.68
	16	1000	1.4	180	-65 to 150	16FL100S05-ND	8.24	6.59	4.95
	16	1000	1.4	180	-65 to 150	16FLR100S05-ND*	8.24	6.59	4.95
DO-5	20	100	1.65	240	-40 to 125	IRD3900-ND	4.28	3.42	2.57
	20	200	1.65	240	-40 to 125	IRD3901-ND	4.61	3.69	2.77
	20	200	1.65	240	-40 to 125	IRD3901R-ND*	4.61	3.69	2.77
	20	300	1.65	240	-40 to 125	IRD3902-ND	5.06	4.05	3.04
	20	400	1.65	240	-40 to 125	IRD3903-ND	5.51	4.41	3.31
	20	400	1.65	240	-40 to 125	IRD3903R-ND*	5.51	4.41	3.31
	30	200	1.45	400	-40 to 150	30HFU-200-ND	8.55	6.84	5.13
	30	400	1.45	400	-40 to 150	30HFU-400-ND	10.31	8.25	6.19
	30	600	1.45	400	-40 to 150	30HFU-600-ND	11.21	8.97	6.73
	30	200	1.45	400	-40 to 150	30HFUR-200-ND*	8.55	6.84	5.13
	30	100	1.8	285	-40 to 125	IRD3910-ND	4.50	3.60	2.70
	30	100	1.8	285	-40 to 125	IRD3910R-ND*	4.50	3.60	2.70
	30	200	1.8	285	-40 to 125	IRD3911-ND	4.95	3.96	2.97
	30	300	1.8	285	-40 to 125	IRD3912-ND	5.40	4.32	3.24
	30	400	1.8	285	-40 to 125	IRD3913-ND	5.85	4.68	3.51
	30	400	1.8	285	-40 to 125	IRD3913R-ND	5.85	4.68	3.51
	40	1000	1.95	400	-40 to 125	40HFL100S05-ND	13.28	10.62	7.97
	40	400	1.95	400	-40 to 125	40HFL40S05-ND	9.29	7.44	5.58
	40	600	1.2	420	-40 to 150	40HFL60S02-ND	11.07	8.86	5.91
	40	600	1.95	400	-40 to 125	40HFL60S05-ND	10.40	8.32	6.24
	40	800	1.95	400	-40 to 125	40HFL80S05-ND	11.52	9.22	6.92
	40	100	1.95	400	-40 to 125	40HFLR10S02-ND*	8.35	6.68	5.01
	40	100	1.95	400	-40 to 125	40HFLR10S05-ND*	7.36	5.89	4.42
	40	200	1.95	400	-40 to 125	40HFLR20S02-ND*	8.69	6.95	5.22
	40	400	1.95	400	-40 to 125	40HFLR40S02-ND*	10.22	8.18	6.13
	40	600	1.95	400	-40 to 125	40HFLR60S02-ND*	11.14	8.91	6.69
	40	600	1.95	400	-40 to 125	40HFLR60S05-ND*	10.40	8.32	6.24
	40	800	1.95	400	-40 to 125	40HFLR80S05-ND*	11.52	9.22	6.92
	60	100	1.5	700	-40 to 125	60HFU-100-ND	9.34	7.47	5.61
	60	200	1.5	700	-40 to 125	60HFU-200-ND	10.24	8.19	6.15
	60	400	1.5	700	-40 to 125	60HFU-400-ND	12.15	9.72	7.29
	60	600	1.5	700	-40 to 125	60HFU-600-ND	14.18	11.34	8.51
	60	300	1.5	700	-40 to 125	60HFUR-300-ND*	11.14	8.91	6.69
	70	100	1.85	700	-40 to 125	70HFL10S02-ND	11.30	9.04	6.78
	70	400	1.85	700	-40 to 125	70HFL40S02-ND	12.38	9.90	7.43
	70	400	1.85	700	-40 to 125	70HFL40S05-ND	11.25	9.00	6.75
	70	600	1.85	700	-40 to 125	70HFL60S02-ND	13.05	10.44	7.83
	70	800	1.85	700	-40 to 125	70HFL80S05-ND	13.28	10.62	7.97
	70	1000	1.85	700	-40 to 125	70HFLR100S05-ND*	14.18	11.34	8.51
	70	1000	1.2	730	-40 to 150	70HFL100S05-ND	13.63	10.90	7.25
	70	200	1.85	700	-40 to 125	70HFLR20S02-ND*	11.72	9.38	7.04
	70	400	1.85	700	-40 to 125	70HFLR40S02-ND*	12.38	9.90	7.43
	70	400	1.85	700	-40 to 125	70HFLR40S05-ND*	11.25	9.00	6.75
	70	600	1.85	700	-40 to 125	70HFLR60S02-ND*	13.05	10.44	7.83
	85	1000	1.76	1100	-40 to 125	85HFL100S05-ND	18.38	14.71	11.03
	85	100	1.76	1100	-40 to 125	85HFL10S02-ND	11.70	9.36	7.02
	85	200	1.76	1100	-40 to 125	85HFL20S02-ND	12.22	9.78	7.34
	85	400	1.76	1100	-40 to 125	85HFL40S02-ND	14.11	11.29	8.47
	85	600	1.76	1100	-40 to 125	85HFL60S02-ND	16.52	13.22	9.91
	85	600	1.76	1100	-40 to 125	85HFL60S05-ND	15.59	12.48	9.36
	85	800	1.76	1100	-40 to 125	85HFL80S05-ND	16.16	12.93	9.70
	85	1000	1.76	1100	-40 to 125	85HFLR100S05-ND*	18.38	14.71	11.03
	85	100	1.76	1100	-40 to 125	85HFLR10S02-ND*	11.70	9.36	7.02
	85	200	1.76	1100	-40 to 125	85HFLR20S02-ND*	12.22	9.78	7.34
	85	400	1.76	1100	-40 to 125	85HFLR40S02-ND*	14.11	11.29	8.47
	85	600	1.76	1100	-40 to 125	85HFLR60S02-ND*	16.52	13.22	9.91
	85	600	1.76	1100	-40 to 125	85HFLR60S05-ND*	15.59	12.48	9.36
	85	800	1.76	1100	-40 to 125	85HFLR80S05-ND*	16.16	12.93	9.70
D-Pak	8	200	1.2	200	-40 to 150	8EWF02S-ND	1.50	1.20	.85
	8	400	1.2	200	-40 to 150	8EWF04S-ND	1.55	1.24	.88
	8	600	1.2	200	-40 to 150	8EWF06S-ND	1.63	1.30	.96
	8	600	1.2	200	-40 to 150	8EWF06STRL-ND	1875.00/3,000		
	8	1000	1.13	170	-40 to 150	8EWF10S-ND	1.28	1.02	.90
SMD-220	10	200	1.2	160	-40 to 150	10ETF02S-ND	2.10	1.68	1.36
	10	400	1.2	160	-40 to 150	10ETF04S-ND	2.10	1.68	1.45
	10	600	1.2	160	-40 to 150	10ETF06S-ND	2.28	1.82	1.56
	10	1000	1.33	160	-40 to 150	10ETF10S-ND	1.91	1.53	1.15
	10	1200	1.33	160	-40 to 150	10ETF12S-ND	2.34	1.88	1.41
	20	200	1.2	355	-40 to 150	20ETF02S-ND	3.30	2.64	1.92
	20	400	1.3	250	-40 to 150	20ETF04S-ND	2.97	2.38	1.79
SMD-220	20	600	1.3	250	-40 to 150	20ETF06S-ND	3.15	2.52	1.89
	20	800	1.3	250	-40 to 150	20ETF08S-ND	3.29	2.63	1.98
	20	1000	1.3	250	-40 to 150	20ETF10S-ND	2.72	2.18	1.64
	20	1200	1.3	250	-40 to 150	20ETF12S-ND	3.33	2.67	2.00
TO-220AC	10	200	1.2	150	-40 to 150	10ETF02-ND	1.76	1.41	1.06
	10	400	1.2	160	-40 to 150	10ETF04-ND	1.95	1.56	1.34
	10	600	1.2	160	-40 to 150	10ETF06-ND	1.81	1.22	.95
	10	1000	1.2	150	-40 to 150	10ETF10-ND	1.78	1.43	1.07
	10	1200	1.2	150	-40 to 150	10ETF12-ND	2.16	1.73	1.30
	20	200	1.2	150	-40 to 150	20ETF02-ND	2.81	2.25	1.69
	20	400	1.2	150	-40 to 150	20ETF04-ND	2.81	2.25	1.69
	20	600	1.2	150	-40 to 150	20ETF06-ND	3.04	2.43	1.83
	20	800	1.2	150	-40 to 150	20ETF08-ND	2.81	2.25	1.69
	20	1000	1.2	150	-40 to 150	20ETF10-ND	2.57	2.06	1.54
	20	1200	1.2	150	-40 to 150	20ETF12-ND	3.13	2.51	1.88
TO-220AC FP	20	200	1.2	300	-40 to 150	20ETF02FP-ND	1.46	1.17	.88
	20	600	1.2	300	-40 to 150	20ETF06FP-ND	1.69	1.35	1.02
TO-247AC	30	200	1.2	315	-40 to 150	30CPF02-ND	2.83	2.26	1.42
	30	200	1.2	350	-40 to 150	30EPF02-ND	3.26	2.61	1.96
	30	400	1.2	350	-40 to 150	30CPF04-ND	3.26	2.61	1.96
	30	400	1.2	350	-40 to 150	30EPF04-ND	3.38	2.70	2.03
	30	600	1.2	350	-40 to 150	30CPF06-ND	3.75	3.00	1.84
	30	600	1.2	350	-40 to 150	30EPF06-ND	3.26	2.61	1.96
	30	1000	1.41	350	-40 to 150	30CPF10-ND	3.02	2.42	1.81
	30	1000	1.2	350	-40 to 150	30EPF10-ND	3.02	2.42	1.81
	30	1200	1.2	350	-40 to 150	30CPF12-ND	4.03	3.23	2.42
	30	1200	1.2	350	-40 to 150	30EPF12-ND	4.03	3.23	2.42
	40	200	1.25	400	-40 to 150	40EPF02-ND	3.71	2.97	2.23
	40	400	1.25	400	-40 to 150	40EPF04-ND	3.71	2.97	2.23
	40	600	1.25	400	-40 to 150	40EPF06-ND	4.05	3.24	2.43
	40	1000	1.25	400	-40 to 150	40EPF10-ND	4.43	3.55	2.66
	40	1200	1.25	400	-40 to 150	40EPF12-ND	5.51	4.41	3.31
	60	200	1.3	700	-40 to 150	60CPF02-ND	6.64	5.31	3.99
	60	200	1.3	700	-40 to 150	60EPF02-ND	6.64	5.31	3.99
	60	400	1.3	700	-40 to 150	60CPF04-ND	6.64	5.31	3.99
	60	400	1.3	700	-40 to 150	60EPF04-ND	6.64	5.31	3.99
	60	600	1.3	700	-40 to 150	60CPF06-ND	6.98	5.58	4.19
	60	600	1.3	700	-40 to 150	60EPF06-ND	6.98	5.58	4.19
	60	1000	1.3	700	-40 to 150	60CPF10-ND	6.08	4.86	3.65
	60	1000	1.3	700	-40 to 150	60EPF10-ND	6.08	4.86	3.65
	60	1200	1.3	700	-40 to 150	60CPF12-ND	6.95	5.57	4.18
	60	1200	1.3	700	-40 to 150	60EPF12-ND	6.95	5.57	4.18
	80	200	1.2	800	-40 to 150	80EPF02-ND	9.68	7.74	5.81
	80	400	1.2	800	-40 to 150	80EPF04-ND	9.68	7.74	5.81
	80	600	1.2	800	-40 to 150	80EPF06-ND	10.58	8.46	6.35
	80	1000	1.2	800	-40 to 150	80EPF10-ND	8.48	6.79	5.09
	80	1200	1.2	800	-40 to 150	80EPF12-ND	9.70	7.76	5.82
TO-252AA	8	1200	1.2	170	-40 to 150	8EWF12S-ND	1.49	1.19	.90
Half-Pak	70	600	1.5	400	-55 to 150	HFA70NH60R-ND*	26.03	20.83	15.62
	90	400	1.3	600	-55 to 150	HFA90NH40R-ND*	26.73	21.39	16.04
	105	600	1.5	600	-55 to 150	HFA105NH60R-ND*	34.49	27.60	20.70
	135	400	1.3	900	-55 to 150	HFA135NH40R-ND*	35.64	28.52	21.39
	140	600	1.6	800	-55 to 150	HFA140NH60R-ND*	43.74	35.00	26.25
PowIRtab	70	1200	1.4	700	-40 to 150	70EPF12-ND	7.79	6.23	4.68
MAGN-A-Pak	250	600	0.98	8000	-40 to 150	IRKEL240-06S10-ND *NEW!*	140.62	100.55	90.70
Ultrafast Diodes									
D2Pak	10	200	1.25	50	-65 to 175	MURB1020CT-ND	1.24	.99	.75
	15	200	1.05	200	-65 to 175	MURB1520-ND	1.24	.99	.75
	16	200	0.975	100	-65 to 175	MURB1620CT-ND	1.19	.96	.72
	20	200	0.85	100	-65 to 175	MURB2020CT-ND	1.24	.99	.75
	8	200	0.975	100	-65 to 175	MURB820-ND	.90	.72	.54
	8	300	1.25	100	-65 to 175	8ETH03S-ND	1.29	.68	.62
	8	400	1.3	100	-65 to 175	8ETU04S-ND	1.40	.76	.68
	8	600	2.4	90	-65 to 175	8ETH06S-ND	1.48	.78	.71
	15	300	1.25	140	-65 to 175	15ETH03S-ND	1.81	1.03	.84
	15	600	2.2	120	-65 to 175	15ETH06S-ND	1.81	1.03	.84
TO-220AC	15	200	1.05	200	-65 to 175	MUR1520IR-ND	1.64	1.06	.81
	8	200	0.975	100	-65 to 175	MUR820IR-ND	.83	.67	.50
	8	300	1.25	100	-65 to 175	8ETH03-ND	1.16	.62	.55
	8	400	1.3	100	-65 to 175	8ETU04-ND	1.40	.76	.68
	8	600	2.4	90	-65 to 175	8ETH06-ND	1.50	.80	.71
	15	600	2.2	120	-65 to 175	15ETH06-ND	1.63	.86	.78
	30	600	2.6	200	-65 to 175	30ETH06-ND	2.57	1.79	1.39
TO-220AB	10	200	1.25	50	-65 to 175	MUR1020CT-ND	1.17	.94	.71
	20	200	0.85	100	-65 to 175	MUR2020CT-ND	1.17	.94	.71
TO-262	8	300	1.25	100	-65 to 175	8ETH03-1-ND	1.29	.68	.62
	8	400	1.3	100	-65 to 175	8ETU04-1-ND	1.40	.76	.68
	8	600	2.4	90	-65 to 175	8ETH06-1-ND	1.48	.78	.71
	15	200	1.05	200	-65 to 175	MURB1520-1-ND	1.24	.99	.75
	16	200	0.975	100	-65 to 175	MURB1620CT-1-ND	1.19	.96	.72
	20	200	0.85	100	-65 to 175	MURB2020CT-1-ND	1.24	.99	.75
	15	300	1.25	140	-65 to 175	15ETH03-1-ND	1.81	1.03	.84
	15	600	2.2	120	-65 to 175	15ETH06-1-ND	1.81	1.03	.84
	25	200	—	100	-65 to 175	MURB820-1-ND	1.40	.80	.68
TO-218	35	200	1.09	300	-55 to 175	70CRU02-ND	4.98	3.56	2.89
TO-247	30	300	1.25	300	-65 to 175	30EPH03-ND	1.88	1.07	.87
TO-247AC	30	300	1.25	300	-65 to 175	30CPH03-ND	1.91	1.09	.89
	30	400	1.25	400	-65 to 175	30CPU04-ND	2.49	1.74	1.32
	30	600	2.6	600	-65 to 175	30EPH06-ND	2.57	1.79	1.39
	30	200	1.05	200	-65 to 175	MUR3020WT-ND	2.68	2.15	1.61
	60	200	1.08	800	-55 to 175	60APU02-ND	3.98	2.84	2.31
	60	400	1.25	400	-55 to 175	60APU04-ND	4.06	2.90	2.35
TO-247AC/MOD	60	200	1.08	800	-55 to 175	60EPU02-ND	3.98	2.84	2.31
	60	400	1.25	400	-55 to 175	60EPU04-ND	4.06	2.90	2.35
SOT-227	100	400	—	1300	-55 to 150	UFB200FA40-ND	28.38	21.93	18.97
	240	200	—	1700	-55 to 150	UFB200FA20-ND	27.59	21.32	18.44
PowIRtab	80	200	1.13	800	-55 to 175	80EBU02-ND	5.09	3.52	2.96
	80	400	1.3	800	-55 to 175	80EBU04-ND	5.14	3.56	3.00
	150	200	1.13	1600	-55 to 175	150EBU02-ND	7.23	5.21	4.34
	150	400	1.3	1500	-55 to 175	150EBU04-ND	7.28	5.24	4.37

* Anode to stud   † tp = 8.3ms

DIODES INCORPORATED

Glass Passivated Bridge Rectifiers

Storage Temperature: -65°C to +150°C

Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Instant. Voltage Drop (V)	Oper. Temp. Range (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
RH Series											
1	0.5	200	30	1.15	-55 to +150	RH02DICT-ND *NEW!*	1.08	.87	.65	RH02DITR-ND *NEW!*	342.00/M
		400	30	1.15	-55 to +150	RH04DICT-ND	.96	.77	.58	RH04DITR-ND	319.00/M
		600	30	1.15	-55 to +150	RH06DICT-ND	.86	.68	.52	RH06DITR-ND	338.00/M
HD Series											
1	0.8	100	30	1.0	-55 to +150	HD01DICT-ND	.70	.56	.42	HD01DITR-ND	210.00/M
		200	30	1.0	-55 to +150	HD02DICT-ND	.60	.48	.36	HD02DITR-ND	200.00/M
		400	30	1.0	-55 to +150	HD04DICT-ND	.64	.52	.39	HD04DITR-ND	213.00/M
		600	30	1.0	-55 to +150	HD06DICT-ND	.68	.55	.41	HD06DITR-ND	226.00/M

Fig.	Max. Ave. Rect. Curr. (A)	Max. Peak Rev. Volt. (V)	Max. Surge Current 8.3ms (A)	Max. Inst. For. Volt. (V)	Op. Temp. Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500	Tape & Reel Pricing* 1,500
DF-S Series											
2	1.5	50	50	1.1	-65 to +150	DF15005SDICT-ND	.84	.68	.51	.35	305.00/M
		100	50	1.1	-65 to +150	DF1501SDICT-ND	.84	.68	.51	.35	305.00/M
		200	50	1.1	-65 to +150	DF1502SDICT-ND	.84	.68	.51	.35	305.00/M
		400	50	1.1	-65 to +150	DF1504SDICT-ND	.84	.68	.51	.35	305.00/M
		600	50	1.1	-65 to +150	DF1506SDICT-ND	.96	.77	.58	.40	348.00/M
		1000	50	1.1	-65 to +150	DF1510SDICT-ND	.89	.71	.54	.40	359.00/M

*For Tape and Reel Part No., change “CT-ND to “TR-ND”

Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500
DF-S Series										
2	1.0	50	50	1.1	-65 to +150	DF005SDI-ND	.76	.61	.46	.32
		100	50	1.1	-65 to +150	DF01SDI-ND	.76	.61	.46	.32
		200	50	1.1	-65 to +150	DF02SDI-ND	.76	.61	.46	.32
		400	50	1.1	-65 to +150	DF04SDI-ND	.76	.61	.46	.32
		600	50	1.1	-65 to +150	DF06SDI-ND	.88	.71	.53	.37
		800	50	1.1	-65 to +150	DF08SDI-ND	.96	.77	.58	.40
		1000	50	1.1	-65 to +150	DF10SDI-ND	.96	.77	.58	.40
DB-1 Series										
3	1.0	100	50	1.1	-65 to +150	DB102DI-ND	.60	.48	.36	.25
		200	50	1.1	-65 to +150	DB103DI-ND	.60	.48	.36	.25
		400	50	1.1	-65 to +150	DB104DI-ND	.60	.48	.36	.25
		600	50	1.1	-65 to +150	DB105DI-ND	.80	.64	.48	.33
DF-M Series										
4	1.0	50	45	1.1	-65 to +150	DF005MDI-ND	.60	.48	.36	.25
		100	45	1.1	-65 to +150	DF01MDI-ND	.60	.48	.36	.25
		200	45	1.1	-65 to +150	DF02MDI-ND	.60	.48	.36	.25
		400	45	1.1	-65 to +150	DF04MDI-ND	.60	.48	.36	.25
		600	45	1.1	-65 to +150	DF06MDI-ND	.72	.58	.44	.30
		800	45	1.1	-65 to +150	DF08MDI-ND	.80	.64	.48	.33
		1000	45	1.1	-65 to +150	DF10MDI-ND	.80	.64	.48	.33
WxxG Series										
5	1.5	50	50	1.0	-65 to +150	W005GDI-ND	.65	.52	.39	.24
		100	50	1.0	-65 to +150	W01GDI-ND	.70	.56	.42	.26
		200	50	1.0	-65 to +150	W02GDI-ND	.60	.48	.36	.25
		400	50	1.0	-65 to +150	W04GDI-ND	.64	.52	.39	.27
		600	50	1.0	-65 to +150	W06GDI-ND	.68	.55	.41	.29
		800	50	1.0	-65 to +150	W08GDI-ND	.70	.56	.42	.26
		1000	50	1.0	-65 to +150	W10GDI-ND	.72	.58	.44	.30
KBP Series										
6	1.5	50	40	1.1	-55 to +125	KBP005G-ND	1.16	.91	.70	.51
		100	40	1.1	-55 to +125	KBP01G-ND	1.16	.91	.70	.51
		200	40	1.1	-55 to +125	KBP02G-ND	1.19	.94	.72	.53
		400	40	1.1	-55 to +125	KBP04G-ND	1.22	.97	.74	.54
		600	40	1.1	-55 to +125	KBP06G-ND	1.32	1.04	.80	.58
		800	40	1.1	-55 to +125	KBP08G-ND	1.39	1.10	.84	.61
		1000	40	1.1	-55 to +125	KBP10G-ND	1.62	1.28	.98	.72
	2.0	50	65	1.1	-65 to +150	KBP2005GDI-ND	1.16	.91	.70	.51
		100	65	1.1	-65 to +150	KBP201GDI-ND	1.16	.91	.70	.51
		200	65	1.1	-65 to +150	KBP202GDI-ND	1.19	.94	.72	.53
		400	65	1.1	-65 to +150	KBP204GDI-ND	1.22	.97	.74	.54
		600	65	1.1	-65 to +150	KBP206GDI-ND	1.32	1.04	.80	.58
		1000	65	1.1	-65 to +150	KBP210GDI-ND	1.62	1.28	.98	.72
GBU Series										
7	4.0	100	150	1.0	-55 to +150	GBU401DI-ND	1.35	1.07	.82	.60
		400	150	1.0	-55 to +150	GBU404DI-ND	1.42	1.12	.86	.63
		1000	150	1.0	-55 to +150	GBU410DI-ND	1.38	1.08	.85	.69
	6.0	100	175	1.0	-55 to +150	GBU601DI-ND	1.55	1.23	.94	.69
		400	175	1.0	-55 to +150	GBU604DI-ND	1.62	1.28	.98	.72
		1000	175	1.0	-55 to +150	GBU610DI-ND	1.51	1.18	.93	.76
	8.0	50	200	1.0	-55 to +150	GBU8005DI-ND	1.38	1.08	.85	.69
		100	200	1.0	-55 to +150	GBU801DI-ND	1.40	1.10	.87	.71
		200	200	1.0	-55 to +150	GBU802DI-ND	1.43	1.12	.88	.72
		400	200	1.0	-55 to +150	GBU804DI-ND	1.46	1.14	.90	.73
		600	200	1.0	-55 to +150	GBU806DI-ND	1.51	1.18	.93	.76
		1000	200	1.0	-55 to +150	GBU810DI-ND	1.70	1.33	1.05	.86

Fig. 1 — Mini Dip (SMT)

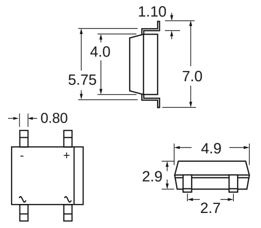


Fig. 2 — DF-S Series

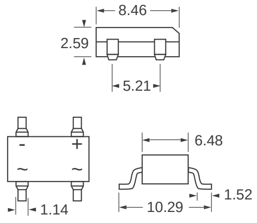


Fig. 3 — DB-1 Series

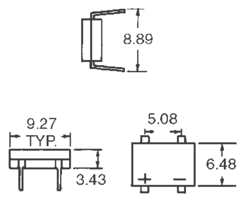


Fig. 4 — DF-M Series

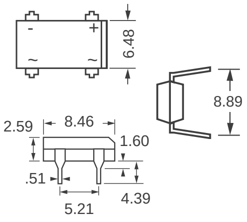


Fig. 5 — WxxG Series

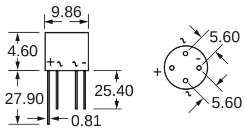
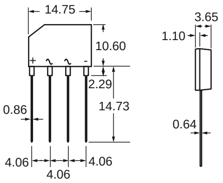


Fig. 6 — KBP Series



(Continued)

Glass Passivated Bridge Rectifiers *(Cont.)*

Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500
					GBJ Series					
8	6.0	50	170	1.0	-65 to +150	GBJ6005DI-ND	1.73	1.35	1.07	.87
		100	170	1.0	-65 to +150	GBJ601DI-ND	1.78	1.39	1.10	.90
		200	170	1.0	-65 to +150	GBJ602DI-ND	1.81	1.41	1.12	.91
		400	170	1.0	-65 to +150	GBJ604DI-ND	1.84	1.43	1.13	.92
		600	170	1.0	-65 to +150	GBJ606DI-ND	1.89	1.47	1.17	.95
		1000	170	1.0	-65 to +150	GBJ610DI-ND	2.05	1.60	1.27	1.03
	8.0	50	170	1.0	-65 to +150	GBJ8005DI-ND	1.84	1.43	1.13	.92
		100	170	1.0	-65 to +150	GBJ801DI-ND	1.89	1.47	1.17	.95
		200	170	1.0	-65 to +150	GBJ802DI-ND	1.92	1.50	1.18	.96
		400	170	1.0	-65 to +150	GBJ804DI-ND	1.94	1.52	1.20	.98
		600	170	1.0	-65 to +150	GBJ806DI-ND	2.00	1.56	1.23	1.00
		1000	170	1.0	-65 to +150	GBJ810DI-ND	2.21	1.73	1.37	1.11
	10	50	170	1.05	-65 to +150	GBJ10005DI-ND	1.92	1.50	1.18	.96
		100	170	1.05	-65 to +150	GBJ1001DI-ND	1.97	1.54	1.22	.99
		200	170	1.05	-65 to +150	GBJ1002DI-ND	2.00	1.56	1.23	1.00
		400	170	1.05	-65 to +150	GBJ1004DI-ND	2.03	1.58	1.25	1.02
		600	170	1.05	-65 to +150	GBJ1006DI-ND	2.08	1.62	1.28	1.04
		1000	170	1.05	-65 to +150	GBJ1010DI-ND	2.38	1.85	1.47	1.19
	15	50	240	1.05	-65 to +150	GBJ15005DI-ND	2.08	1.62	1.28	1.04
		100	240	1.05	-65 to +150	GBJ1501DI-ND	2.16	1.68	1.33	1.08
		200	240	1.05	-65 to +150	GBJ1502DI-ND	2.19	1.71	1.35	1.10
		400	240	1.05	-65 to +150	GBJ1504DI-ND	2.21	1.73	1.37	1.11
		600	240	1.05	-65 to +150	GBJ1506DI-ND	2.27	1.77	1.40	1.14
		1000	240	1.05	-65 to +150	GBJ1510DI-ND	2.48	1.94	1.53	1.25
	20	50	240	1.05	-65 to +150	GBJ20005DI-ND	2.13	1.66	1.32	1.07
		100	240	1.05	-65 to +150	GBJ2001DI-ND	2.19	1.71	1.35	1.10
		200	240	1.05	-65 to +150	GBJ2002DI-ND	2.21	1.73	1.37	1.11
		400	240	1.05	-65 to +150	GBJ2004DI-ND	2.27	1.77	1.40	1.14
		600	240	1.05	-65 to +150	GBJ2006DI-ND	2.32	1.81	1.43	1.17
		1000	240	1.05	-65 to +150	GBJ2010DI-ND	2.51	1.96	1.55	1.26
	25	50	350	1.05	-65 to +150	GBJ25005DI-ND	2.32	1.81	1.43	1.17
		100	350	1.05	-65 to +150	GBJ2501DI-ND	2.38	1.85	1.47	1.19
		200	350	1.05	-65 to +150	GBJ2502DI-ND	2.46	1.92	1.52	1.23
		400	350	1.05	-65 to +150	GBJ2504DI-ND	2.51	1.96	1.55	1.26
		600	350	1.05	-65 to +150	GBJ2506DI-ND	2.57	2.00	1.58	1.29
		1000	350	1.05	-65 to +150	GBJ2510DI-ND	2.35	1.89	1.53	1.33
					GBPC Series					
9	15.0	50	300	1.1	-65 to +150	GBPC15005DI-ND	2.30	1.85	1.50	1.30
		100	300	1.1	-55 to +150	GBPC1501DI-ND	2.65	2.13	1.73	1.50
		200	300	1.1	-55 to +150	GBPC1502DI-ND	2.76	2.22	1.80	1.56
		400	300	1.1	-55 to +150	GBPC1504DI-ND	2.88	2.32	1.88	1.63
		600	300	1.1	-55 to +150	GBPC1506DI-ND	2.88	2.32	1.88	1.63
		800	300	1.1	-55 to +150	GBPC1508DI-ND	3.11	2.50	2.03	1.76
		1000	300	1.1	-55 to +150	GBPC1510DI-ND	3.22	2.59	2.10	1.82
	25.0	100	300	1.1	-55 to +150	GBPC2501DI-ND	2.76	2.22	1.80	1.56
		200	300	1.1	-55 to +150	GBPC2502DI-ND	2.88	2.32	1.88	1.63
		400	300	1.1	-55 to +150	GBPC2504DI-ND	2.88	2.32	1.88	1.63
		600	300	1.1	-55 to +150	GBPC2506DI-ND	2.88	2.32	1.88	1.63
		800	300	1.1	-55 to +150	GBPC2508DI-ND	3.22	2.59	2.10	1.82
		1000	300	1.1	-55 to +150	GBPC2510DI-ND	3.22	2.59	2.10	1.82
	35.0	100	400	1.1	-55 to +150	GBPC3501DI-ND	2.99	2.41	1.95	1.69
		200	400	1.1	-55 to +150	GBPC3502DI-ND	3.11	2.50	2.03	1.76
		400	400	1.1	-55 to +150	GBPC3504DI-ND	3.22	2.59	2.10	1.82
		600	400	1.1	-55 to +150	GBPC3506DI-ND	3.22	2.59	2.10	1.82
		800	400	1.1	-55 to +150	GBPC3508DI-ND	3.45	2.78	2.25	1.95
		1000	400	1.1	-55 to +150	GBPC3510DI-ND	3.57	2.87	2.33	2.02

Fig. 7 — GBU Series

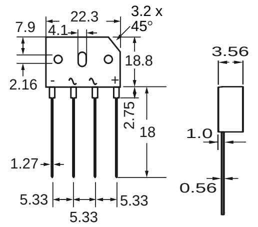


Fig. 8 — GBJ Series

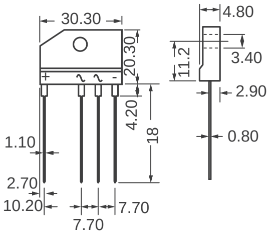
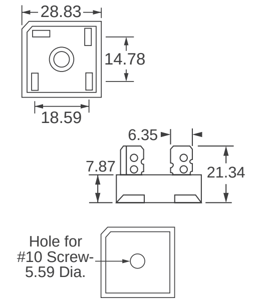


Fig. 9 — GBPC Series



Bridge Rectifiers

Fig.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Digi-Key Part No.	Price Each 1	10	100	500
1	4.0	50	200	10.0	1.0	RS401LDI-ND	1.32	1.04	.80	.58
		100	200	10.0	1.0	RS402LDI-ND	1.32	1.04	.80	.58
		200	200	10.0	1.0	RS403LDI-ND	1.32	1.04	.80	.58
		400	200	10.0	1.0	RS404LDI-ND	1.32	1.04	.80	.58
		600	200	10.0	1.0	RS405LDI-ND	1.35	1.05	.83	.68
2	6.0	50	200	10.0	1.0	PB605DI-ND	1.49	1.17	.90	.66
		100	200	10.0	1.0	PB61DI-ND	1.49	1.17	.90	.66
		200	200	10.0	1.0	PB62DI-ND	1.49	1.17	.90	.66
		400	200	10.0	1.0	PB64DI-ND	1.49	1.17	.90	.66
		600	200	10.0	1.0	PB66DI-ND	1.49	1.17	.90	.66
3	15.0	50	300	10.0	1.1	MB1505-ND	2.30	1.85	1.50	1.30
		100	300	10.0	1.1	MB151-ND	2.42	1.95	1.58	1.37
		200	300	10.0	1.1	MB152-ND	2.53	2.04	1.65	1.43
		400	300	10.0	1.1	MB154-ND	2.65	2.13	1.73	1.50
		600	300	10.0	1.1	MB156-ND	2.76	2.22	1.80	1.56
	25.0	50	300	10.0	1.1	MB2505-ND	2.42	1.95	1.58	1.37
		100	300	10.0	1.1	MB251-ND	2.53	2.04	1.65	1.43
		200	300	10.0	1.1	MB252-ND	2.65	2.13	1.73	1.50
		400	300	10.0	1.1	MB254-ND	2.76	2.22	1.80	1.56
		600	300	10.0	1.1	MB256-ND	2.88	2.32	1.88	1.63
	35.0	50	400	10.0	1.1	MB3505-ND	2.53	2.04	1.65	1.43
		100	400	10.0	1.1	MB351-ND	2.65	2.13	1.73	1.50
		200	400	10.0	1.1	MB352-ND	2.76	2.22	1.80	1.56
		400	400	10.0	1.1	MB354-ND	2.88	2.32	1.88	1.63
		600	400	10.0	1.1	MB356-ND	2.99	2.41	1.95	1.69

Operating Temperature Range: -55°C to +125°C. Storage Temperature: -55°C to +150°C

Fig. 1

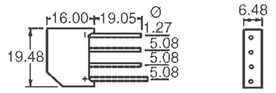


Fig. 2

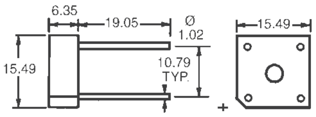
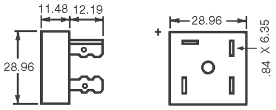
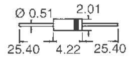
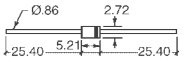
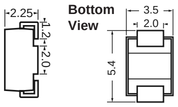
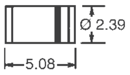
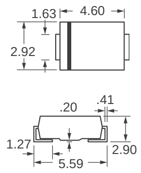
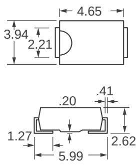
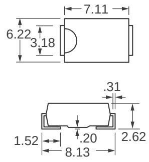
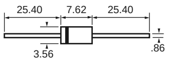
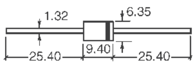
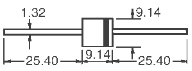


Fig. 3



DIODES INCORPORATED

Silicon and Glass Passivated Rectifiers

Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (Vrrm)	Max. Surge Current 8.3ms (A)	Max. For. Volt. Peak (V)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Package
					1	10	100	1,000		Size	Pricing	
0.2	200	—	1.0	BAV20DICT-ND	—	1.80	11.70	48.60	BAV20DITB-ND‡	10,000	31.00/M	**DO-35** 
	250	—	1.0	BAV21DICT-ND	—	1.80	11.70	48.60	BAV21DITB-ND‡	10,000	31.00/M	
1.0	50	30	1.1	1N4001DICT-ND	—	1.36	7.65	27.63	1N4001DITR-ND*	5,000	20.00/M	**DO-41** 
	100	30	1.1	1N4002DICT-ND	—	1.36	7.65	27.63	1N4002DITR-ND*	5,000	20.00/M	
	200	30	1.1	1N4003DICT-ND	—	1.36	7.65	27.63	1N4003DITR-ND*	5,000	20.00/M	
	400	30	1.1	1N4004DICT-ND	—	1.36	7.65	27.63	1N4004DITR-ND*	5,000	20.00/M	
	600	30	1.1	1N4005DICT-ND	—	1.36	7.65	27.63	1N4005DITR-ND*	5,000	20.00/M	
	800	30	1.1	1N4006DICT-ND	—	1.36	7.65	27.63	1N4006DITR-ND*	5,000	20.00/M	
	1000	30	1.1	1N4007DICT-ND	—	1.36	7.65	27.63	1N4007DITR-ND*	5,000	20.00/M	
1.0	50	30	1.0	1N4001GDICT-ND	—	2.20	14.30	59.40	1N4001GDITR-ND*	5,000	44.00/M	
	100	30	1.0	1N4002GDICT-ND	—	2.40	15.60	64.80	1N4002GDITR-ND*	5,000	48.00/M	
	200	30	1.0	1N4003GDICT-ND	—	2.60	16.90	70.20	1N4003GDITR-ND*	5,000	52.00/M	
	400	30	1.0	1N4004GDICT-ND	—	2.70	17.55	72.90	1N4004GDITR-ND*	5,000	54.00/M	
	600	30	1.0	1N4005GDICT-ND	—	2.90	18.85	78.30	1N4005GDITR-ND*	5,000	58.00/M	
	800	30	1.0	1N4006GDICT-ND	—	2.33	16.12	71.30	1N4006GDITR-ND*	5,000	56.00/M	
	1000	30	1.0	1N4007GDICT-ND	—	2.48	17.16	75.90	1N4007GDITR-ND*	5,000	59.00/M	
1.0	50	30	1.1	S1ABDICT-ND	—	3.13	22.00	100.00	S1ABDITR-ND*	3,000	90.00/M	**SMB** 
	100	30	1.1	S1BBDICT-ND	—	3.25	22.88	104.00	S1BBDITR-ND*	3,000	94.00/M	
	200	30	1.1	S1DBDICT-ND	—	3.38	23.76	108.00	S1DBDITR-ND*	3,000	97.00/M	
	400	30	1.1	S1GBDICT-ND	—	3.50	24.64	112.00	S1GBDITR-ND*	3,000	101.00/M	
	600	30	1.1	S1JBDICT-ND	—	3.63	25.52	116.00	S1JBDITR-ND*	3,000	104.00/M	
	800	30	1.1	S1KBDICT-ND	—	3.00	21.60	108.00	S1KBDITR-ND*	3,000	102.00/M	
	1000	30	1.1	S1MBDICT-ND	—	3.40	24.48	122.40	S1MBDITR-ND*	3,000	116.00/M	
1.0	50	30	1.1	DL4001DICT-ND	—	2.93	20.28	89.70	DL4001DITR-ND*	5,000	70.00/M	**MELF (DL-41)** 
	100	30	1.1	DL4002DICT-ND	—	2.93	20.28	89.70	DL4002DITR-ND*	5,000	70.00/M	
	200	30	1.1	DL4003DICT-ND	—	2.93	20.28	89.70	DL4003DITR-ND*	5,000	70.00/M	
	400	30	1.1	DL4004DICT-ND	—	2.93	20.28	89.70	DL4004DITR-ND*	5,000	70.00/M	
	600	30	1.1	DL4005DICT-ND	.46	3.15	21.84	96.60	DL4005DITR-ND*	5,000	76.00/M	
	800	30	1.1	DL4006DICT-ND	.46	3.15	21.84	96.60	DL4006DITR-ND*	5,000	76.00/M	
	1000	30	1.1	DL4007DICT-ND	.46	3.15	21.84	96.60	DL4007DITR-ND*	5,000	76.00/M	
1.0	50	30	1.0	S1ADICT-ND	—	3.23	22.36	98.90	S1ADITR-ND*	5,000	77.00/M	**SMA** 
	100	30	1.0	S1BDICT-ND	—	3.30	22.88	101.20	S1BDITR-ND*	5,000	79.00/M	
	200	30	1.0	S1DDICT-ND	—	2.81	19.80	90.00	S1DDITR-ND*	5,000	77.00/M	
	400	30	1.0	S1GDICT-ND	—	2.88	20.24	92.00	S1GDITR-ND*	5,000	78.00/M	
	600	30	1.0	S1JDICT-ND	—	3.00	21.12	96.00	S1JDITR-ND*	5,000	82.00/M	
	800	30	1.0	S1KDICT-ND	—	3.44	24.20	110.00	S1KDITR-ND*	5,000	94.00/M	
	1000	30	1.0	S1MDICT-ND	—	3.15	22.68	113.40	S1MDITR-ND*	5,000	101.00/M	
1.5	50	50	1.15	S2AADICT-ND	.39	3.00	21.60	108.00	S2AADITR-ND*	5,000	96.00/M	
	100	50	1.15	S2BADICT-ND	.39	3.00	21.60	108.00	S2BADITR-ND*	5,000	96.00/M	
	200	50	1.15	S2DADICT-ND	.39	3.00	21.60	108.00	S2DADITR-ND*	5,000	96.00/M	
	400	50	1.15	S2GADICT-ND	.39	3.00	21.60	108.00	S2GADITR-ND*	5,000	96.00/M	
	600	50	1.15	S2JADICT-ND	.46	3.50	25.20	126.00	S2JADITR-ND*	5,000	112.00/M	
	1000	50	1.15	S2MADICT-ND	.46	3.50	25.20	126.00	S2MADITR-ND*	5,000	112.00/M	
1.5	50	30	1.5	S2ADICT-ND	—	3.13	22.00	100.00	S2ADITR-ND*	3,000	90.00/M	**SMB** 
	100	30	1.5	S2BDICT-ND	—	3.13	22.00	100.00	S2BDITR-ND*	3,000	90.00/M	
	200	30	1.5	S2DDICT-ND	—	3.13	22.00	100.00	S2DDITR-ND*	3,000	90.00/M	
	400	30	1.5	S2GDICT-ND	—	3.13	22.00	100.00	S2GDITR-ND*	3,000	90.00/M	
	600	30	1.5	S2JDICT-ND	—	3.00	21.60	108.00	S2JDITR-ND*	3,000	102.00/M	
	1000	30	1.5	S2MDICT-ND	—	3.00	21.60	108.00	S2MDITR-ND*	3,000	102.00/M	
3.0	50	100	1.15	S3ABDICT-ND	.65	5.20	39.00	208.00	S3ABDITR-ND*	3,000	195.00/M	
	100	100	1.15	S3BBDICT-ND	.65	5.20	39.00	208.00	S3BBDITR-ND*	3,000	195.00/M	
	200	100	1.15	S3DBDICT-ND	.65	5.20	39.00	208.00	S3DBDITR-ND*	3,000	195.00/M	
	400	100	1.15	S3GBDICT-ND	.65	5.20	39.00	208.00	S3GBDITR-ND*	3,000	195.00/M	
	600	100	1.15	S3JBDICT-ND	.68	5.44	40.80	246.50	S3JBDITR-ND*	3,000	226.00/M	
	800	100	1.15	S3KBDICT-ND	.68	5.44	40.80	246.50	S3KBDITR-ND*	3,000	226.00/M	
	1000	100	1.15	S3MBDICT-ND	.68	5.44	40.80	246.50	S3MBDITR-ND*	3,000	226.00/M	
3.0	50	100	1.15	S3ADICT-ND	—	5.60	42.00	224.00	S3ADITR-ND*	3,000	210.00/M	**SMC** 
	100	100	1.15	S3BDICT-ND	—	5.60	42.00	224.00	S3BDITR-ND*	3,000	210.00/M	
	200	100	1.15	S3DDICT-ND	—	5.60	42.00	224.00	S3DDITR-ND*	3,000	210.00/M	
	400	100	1.15	S3GDICT-ND	—	5.60	42.00	224.00	S3GDITR-ND*	3,000	210.00/M	
	600	100	1.15	S3JDICT-ND	—	5.76	43.20	261.00	S3JDITR-ND*	3,000	239.00/M	
	800	100	1.15	S3KDICT-ND	—	5.76	43.20	261.00	S3KDITR-ND*	3,000	239.00/M	
	1000	100	1.15	S3MDICT-ND	—	5.76	43.20	261.00	S3MDITR-ND*	3,000	239.00/M	
5.0	50	100	1.15	S5ACDICT-ND	.64	5.12	38.40	—	S5ACDITR-ND*	3,000	213.00/M	
	100	100	1.15	S5BCDICT-ND	.68	5.44	40.80	—	S5BCDITR-ND*	3,000	226.00/M	
	200	100	1.15	S5DCDICT-ND	.72	5.76	43.20	—	S5DCDITR-ND*	3,000	239.00/M	
	400	100	1.15	S5GCDICT-ND	.80	6.40	48.00	—	S5GCDITR-ND*	3,000	266.00/M	
	600	100	1.15	S5JCDICT-ND	.84	6.72	50.40	—	S5JCDITR-ND*	3,000	279.00/M	
	800	100	1.15	S5KCDICT-ND	.92	7.36	55.20	—	S5KCDITR-ND*	3,000	306.00/M	
	1000	100	1.15	S5MCDICT-ND	.83	6.50	50.00	—	S5MCDITR-ND*	3,000	325.00/M	
2.0	200	70	1.0	RL203DICT-ND	—	2.90	18.85	78.30	RL203DITR-ND*	4,000	68.00/M	**DO-15** 
	400	70	1.0	RL204DICT-ND	—	2.33	16.12	71.30	RL204DITR-ND*	4,000	62.00/M	
	600	70	1.0	RL205DICT-ND	—	2.40	16.64	73.60	RL205DITR-ND*	4,000	64.00/M	
	800	70	1.0	RL206DICT-ND	—	2.63	18.20	80.50	RL206DITR-ND*	4,000	70.00/M	
	1000	70	1.0	RL207DICT-ND	—	2.70	18.72	82.80	RL207DITR-ND*	4,000	72.00/M	
3.0	50	200	0.95	1N5400DICT-ND	.41	2.78	19.24	—	1N5400DITR-ND*	1,200	85.00/M	**DO-201AD** 
	100	200	0.95	1N5401DICT-ND	.41	2.78	19.24	—	1N5401DITR-ND*	1,200	85.00/M	
	200	200	0.95	1N5402DICT-ND	.41	2.78	19.24	—	1N5402DITR-ND*	1,200	85.00/M	
	400	200	0.95	1N5404DICT-ND	.41	2.78	19.24	—	1N5404DITR-ND*	1,200	85.00/M	
	600	200	0.95	1N5406DICT-ND	.41	2.78	19.24	—	1N5406DITR-ND*	1,200	85.00/M	
	800	200	0.95	1N5407DICT-ND	.41	2.78	19.24	—	1N5407DITR-ND*	1,200	85.00/M	
	1000	200	0.95	1N5408DICT-ND	.41	2.78	19.24	—	1N5408DITR-ND*	1,200	85.00/M	
3.0	50	125	1.0	1N5400GDICT-ND	—	3.60	25.92	—	1N5400GDITR-ND*	1,200	130.00/M	
	100	125	1.0	1N5401GDICT-ND	—	3.70	26.64	—	1N5401GDITR-ND*	1,200	133.00/M	
	200	125	1.0	1N5402GDICT-ND	—	3.85	27.72	—	1N5402GDITR-ND*	1,200	139.00/M	
	400	125	1.0	1N5404GDICT-ND	—	4.10	29.52	—	1N5404GDITR-ND*	1,200	148.00/M	
	600	125	1.0	1N5406GDICT-ND	—	4.45	32.04	—	1N5406GDITR-ND*	1,200	160.00/M	
	800	125	1.0	1N5407GDICT-ND	—	3.64	27.30	—	1N5407GDITR-ND*	1,200	146.00/M	
	1000	125	1.0	1N5408GDICT-ND	—	4.04	30.30	—	1N5408GDITR-ND*	1,200	162.00/M	
6.0	50	400	0.9	6A05DICT-ND	.48	3.80	28.50	—	6A05DITR-ND*	500	85.50	**R-6** 
	100	400	0.9	6A1DICT-ND	.48	3.80	28.50	—	6A1DITR-ND*	500	85.50	
	200	400	0.9	6A2DICT-ND	.48	3.80	28.50	—	6A2DITR-ND*	500	85.50	
	400	400	0.9	6A4DICT-ND	.48	3.80	28.50	—	6A4DITR-ND*	500	85.50	
	600	400	0.9	6A6DICT-ND	.48	3.80	28.50	—	6A6DITR-ND*	500	85.50	
	800	400	0.9	6A8DICT-ND	.48	3.80	28.50	—	6A8DITR-ND*	500	85.50	
	1000	400	0.9	6A10DICT-ND	.48	3.80	28.50	—	6A10DITR-ND*	500	85.50	

* TR = Tape & Reel   ‡ TB = Tape & Box

DIODES
INCORPORATED

Schottky Barrier Rectifiers

Fig.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms(A)	Max. Rev. Current @ 25°C(mA)	Max. For. Voltage Peak (V)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
							1	10	100		Size	Pricing
1	1.0	20	25	1.0	0.45	1N5817DICT-ND	.39	.30	.22	1N5817DITR-ND	5,000	96.00/M
		30	25	1.0	0.55	1N5818DICT-ND	.39	.30	.22	1N5818DITR-ND	5,000	96.00/M
		20	40	1.0	0.55	SR102DICT-ND	.49	.38	.27	SR102DITR-ND	5,000	120.00/M
		30	40	1.0	0.55	SR103DICT-ND	.49	.38	.27	SR103DITR-ND	5,000	120.00/M
		40	40	1.0	0.55	SR104DICT-ND	.49	.38	.27	SR104DITR-ND	5,000	120.00/M
		50	40	1.0	0.70	SR105DICT-ND	.52	.40	.29	SR105DITR-ND	5,000	128.00/M
		60	40	1.0	0.70	SR106DICT-ND	.53	.42	.32	SR106DITR-ND	5,000	147.00/M
		100	25	0.5	0.80	SB1100DICT-ND	.55	.44	.33	SB1100DITR-ND	5,000	154.00/M
2	3.0	20	80	2.0	0.475	1N5820DICT-ND	.68	.54	.41	1N5820DITR-ND	1,200	216.00/M
		30	80	2.0	0.500	1N5821DICT-ND	.68	.54	.41	1N5821DITR-ND	1,200	216.00/M
		40	80	2.0	0.525	1N5822DICT-ND	.68	.54	.41	1N5822DITR-ND	1,200	216.00/M
		20	150	3.0	0.55	SR302DICT-ND	.60	.48	.36	SR302DITR-ND	1,200	218.00/M
		40	150	3.0	0.55	SR304DICT-ND	.60	.48	.36	SR304DITR-ND	1,200	218.00/M
		50	150	3.0	0.75	SR305DICT-ND	.64	.52	.39	SR305DITR-ND	1,200	232.00/M
		60	150	3.0	0.75	SR306DICT-ND	.68	.55	.41	SR306DITR-ND	1,200	247.00/M
		100	80	0.5	0.80	SB3100DICT-ND	.80	.64	.48	SB3100DITR-ND	1,200	290.00/M
	5.0	20	250	10.0	0.57	SR502DICT-ND	.88	.71	.53	SR502DITR-ND	1,200	319.00/M
		30	250	10.0	0.57	SR503DICT-ND	.92	.74	.56	SR503DITR-ND	1,200	334.00/M
		40	250	10.0	0.57	SR504DICT-ND	.96	.77	.58	SR504DITR-ND	1,200	348.00/M
		50	150	1.0	0.67	SR505DICT-ND	.65	.52	.39	SR505DITR-ND	1,200	208.00/M
		60	150	1.0	0.67	SR506DICT-ND	.65	.52	.39	SR506DITR-ND	1,200	208.00/M
		100	150	0.5	0.80	SB5100DICT-ND	1.12	.89	.68	SB5100DITR-ND	1,200	452.00/M
3	1.0	20	25	1.0	0.45	1N5817MDICT-ND	.68	.54	.41	1N5817MDITR-ND	5,000	189.00/M
		30	25	1.0	0.55	1N5818MDICT-ND	.68	.54	.41	1N5818MDITR-ND	5,000	189.00/M
		40	25	1.0	0.60	1N5819MDICT-ND	.68	.54	.41	1N5819MDITR-ND	5,000	189.00/M
4	1.0	20	30	0.5	0.50	B120DICT-ND	.55	.44	.33	B120DITR-ND	5,000	154.00/M
		30	30	0.5	0.50	B130DICT-ND	.58	.46	.35	B130DITR-ND	5,000	161.00/M
		30	25	1.0	0.41	B130LDICT-ND	.68	.54	.41	B130LDITR-ND	5,000	189.00/M
		40	30	0.5	0.50	B140DICT-ND	.60	.48	.36	B140DITR-ND	5,000	168.00/M
		50	30	0.5	0.70	B150DICT-ND	.62	.50	.38	B150DITR-ND	5,000	198.00/M
		60	30	0.5	0.70	B160DICT-ND	.76	.61	.46	B160DITR-ND	5,000	242.00/M
		80	30	0.5	0.79	B180DICT-ND	.80	.64	.48	B180DITR-ND	5,000	255.00/M
		100	30	0.5	0.79	B1100DICT-ND	.84	.68	.51	B1100DITR-ND	5,000	268.00/M
	2.0	20	50	0.5	0.50	B220ADICT-ND	.76	.61	.46	B220ADITR-ND	5,000	242.00/M
		30	50	0.5	0.50	B230ADICT-ND	.82	.66	.50	B230ADITR-ND	5,000	261.00/M
		40	50	0.5	0.50	B240ADICT-ND	.86	.69	.52	B240ADITR-ND	5,000	274.00/M
		50	50	0.5	0.70	B250ADICT-ND	.90	.72	.54	B250ADITR-ND	5,000	287.00/M
		60	50	0.5	0.70	B260ADICT-ND	.96	.77	.58	B260ADITR-ND	5,000	306.00/M
	3.0	20	100	0.5	0.50	B320ADICT-ND	.96	.77	.58	B320ADITR-ND	5,000	306.00/M
		30	100	0.5	0.50	B330ADICT-ND	.83	.65	.50	B330ADITR-ND	5,000	319.00/M
		40	100	0.5	0.50	B340ADICT-ND	.86	.68	.52	B340ADITR-ND	5,000	332.00/M
		40	70	1.0	0.35	B340LADICT-ND	.86	.68	.52	B340LADITR-ND	5,000	332.00/M
		50	100	0.5	0.70	B350ADICT-ND	1.06	.84	.64	B350ADITR-ND	5,000	408.00/M
		60	100	0.5	0.70	B360ADICT-ND	1.16	.91	.70	B360ADITR-ND	5,000	446.00/M
5	1.0	20	30	0.5	0.50	B120BDICT-ND	.63	.50	.38	B120BDITR-ND	3,000	188.00/M
		20	30	0.5	1.1	SK12DICT-ND	.63	.50	.38	SK12DITR-ND	3,000	188.00/M
		30	30	0.5	0.50	B130BDICT-ND	.65	.52	.39	B130BDITR-ND	3,000	195.00/M
		30	40	1.0	.445	B130LBDICT-ND	.70	.56	.42	B130LBDITR-ND	3,000	210.00/M
		30	25	0.5	0.55	SK13DICT-ND	.68	.54	.41	SK13DITR-ND	3,000	203.00/M
		40	45	0.1	0.53	B140HBDICT-ND	.73	.58	.44	B140HBDITR-ND	3,000	218.00/M
		40	30	0.5	0.50	B140BDICT-ND	.68	.54	.41	B140BDITR-ND	3,000	203.00/M
		40	25	0.5	0.55	SK14DICT-ND	.60	.48	.36	SK14DITR-ND	3,000	200.00/M
		50	30	0.5	0.50	B150BDICT-ND	.70	.56	.42	B150BDITR-ND	3,000	233.00/M
		50	25	0.5	0.70	SK15DICT-ND	.70	.56	.42	SK15DITR-ND	3,000	233.00/M
		60	30	0.5	0.70	B160BDICT-ND	.84	.68	.51	B160BDITR-ND	3,000	279.00/M
		60	25	0.5	0.70	SK16DICT-ND	.88	.71	.53	SK16DITR-ND	3,000	293.00/M
		70	30	0.5	0.79	B170BDICT-ND	.86	.69	.52	B170BDITR-ND	3,000	286.00/M
		80	30	0.5	0.79	B180BDICT-ND	.88	.71	.53	B180BDITR-ND	3,000	293.00/M
		90	30	0.5	0.79	B190BDICT-ND	.90	.72	.54	B190BDITR-ND	3,000	299.00/M
		100	30	0.5	0.79	B1100BDICT-ND	.92	.74	.56	B1100BDITR-ND	3,000	306.00/M
		100	50	0.5	0.75	B1100LBDICT-ND	.83	.65	.50	B1100LBDITR-ND	3,000	325.00/M
	2.0	20	50	0.5	0.50	B220DICT-ND	.84	.68	.51	B220DITR-ND	3,000	279.00/M
		30	50	0.5	0.50	B230DICT-ND	.90	.72	.54	B230DITR-ND	3,000	299.00/M
		40	50	0.5	0.50	B240DICT-ND	.96	.77	.58	B240DITR-ND	3,000	319.00/M
		50	50	0.5	0.70	B250DICT-ND	.83	.65	.50	B250DITR-ND	3,000	325.00/M
		60	50	0.5	0.70	B260DICT-ND	.89	.71	.54	B260DITR-ND	3,000	351.00/M
		70	50	0.5	0.79	B270DICT-ND	.92	.73	.56	B270DITR-ND	3,000	364.00/M
		80	50	0.5	0.79	B280DICT-ND	.96	.76	.58	B280DITR-ND	3,000	377.00/M
		90	50	0.5	0.79	B290DICT-ND	.99	.78	.60	B290DITR-ND	3,000	390.00/M
		100	50	0.5	0.79	B2100DICT-ND	1.02	.81	.62	B2100DITR-ND	3,000	403.00/M
	3.0	20	100	0.5	0.50	B320BDICT-ND	.89	.71	.54	B320BDITR-ND	3,000	351.00/M
		30	100	0.5	0.50	B330BDICT-ND	.92	.73	.56	B330BDITR-ND	3,000	364.00/M
		40	100	0.5	0.50	B340BDICT-ND	.96	.76	.58	B340BDITR-ND	3,000	377.00/M
		40	70	2.0	0.45	B340LBDICT-ND	.96	.76	.58	B340LBDITR-ND	3,000	377.00/M
		50	100	0.5	0.70	B350BDICT-ND	1.19	.94	.72	B350BDITR-ND	3,000	468.00/M
		60	100	0.5	0.50	B360BDICT-ND	1.29	1.02	.78	B360BDITR-ND	3,000	507.00/M
6	3.0	20	100	0.5	0.50	B320DICT-ND	.99	.78	.60	B320DITR-ND	3,000	390.00/M
		30	100	0.5	0.50	B330DICT-ND	1.02	.81	.62	B330DITR-ND	3,000	403.00/M
		40	100	0.5	0.50	B340DICT-ND	1.09	.86	.66	B340DITR-ND	3,000	429.00/M
		50	100	0.5	0.70	B350DICT-ND	1.32	1.04	.80	B350DITR-ND	3,000	520.00/M
		60	100	0.5	0.70	B360DICT-ND	1.45	1.15	.88	B360DITR-ND	3,000	572.00/M
		70	100	0.5	0.79	B370DICT-ND	1.49	1.17	.90	B370DITR-ND	3,000	585.00/M

(Continued)

Fig. 1 — DO-41

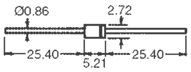


Fig. 2 — DO-201AD

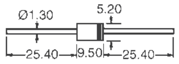


Fig. 3 — MELF (DL-41)

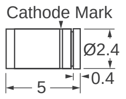


Fig. 4 — SMA

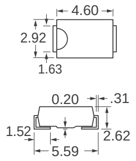


Fig. 5 — SMB

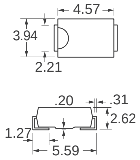


Fig. 6 — SMC

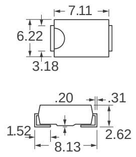


Fig. 7 — DPAK

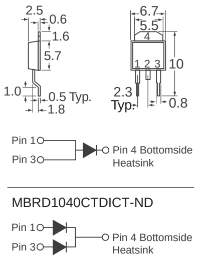
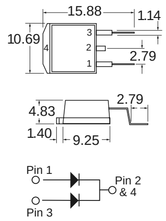


Fig. 8 — D2PAK



DIODES INCORPORATED

Schottky Barrier Rectifiers *(Cont.)*

Fig.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. For. Voltage Peak (V)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
							1	10	100		Size	Pricing
6	3.0	80	100	0.5	0.79	B380DICT-ND	1.52	1.20	.92	B380DITR-ND	3,000	598.00/M
		100	100	0.5	0.79	B3100DICT-ND	1.58	1.25	.96	B3100DITR-ND	3,000	624.00/M
		20	100	0.5	0.50	SK32DICT-ND	.86	.68	.52	SK32DITR-ND	500	188.50
		30	100	0.5	0.50	SK33DICT-ND	.86	.68	.52	SK33DITR-ND	500	188.50
		40	100	0.5	0.50	SK34DICT-ND	.86	.68	.52	SK34DITR-ND	500	188.50
		50	100	0.5	0.75	SK35DICT-ND	.86	.68	.52	SK35DITR-ND	500	188.50
		60	100	0.5	0.75	SK36DICT-ND	.86	.68	.52	SK36DITR-ND	500	188.50
		90	100	0.5	0.79	B390DICT-ND	1.55	1.23	.94	B390DITR-ND	3,000	611.00/M
	5.0	20	175	0.5	0.55	B520CDICT-ND	1.16	.91	.70	B520CDITR-ND	3,000	455.00/M
		30	175	0.5	0.55	B530CDICT-ND	1.22	.97	.74	B530CDITR-ND	3,000	481.00/M
		40	175	0.5	0.55	B540CDICT-ND	1.29	1.02	.78	B540CDITR-ND	3,000	507.00/M
		50	175	0.5	0.70	B550CDICT-ND	1.42	1.12	.86	B550CDITR-ND	3,000	559.00/M
		60	175	0.5	0.70	B560CDICT-ND	1.55	1.23	.94	B560CDITR-ND	3,000	611.00/M
7	8.0	35	75	1.4	0.51	MBRD835LDICT-ND	1.49	1.17	.90	MBRD835LDITR-ND	2,500	585.00/M
	10.0	40	100	0.3	0.49	MBRD1040DICT-ND	1.52	1.20	.92	MBRD1040DITR-ND	2,500	598.00/M
	10.0	40	75	0.15	0.57	MBRD1040CTDICT-ND	1.38	1.08	.85	MBRD1040CTDITR-ND	2,500	653.00/M
8	10.0	40	125	1.0	0.55	SBG1040CTDI-ND	1.46	1.14	.90	—	—	—
	15.0	30	150	0.1	0.7	MBRB1530CTDICT-ND	1.38	1.08	.85	MBRB1530CTDITR-ND	800	551.20
	15.0	35	150	0.1	0.7	MBRB1535CTDICT-ND	1.40	1.10	.87	MBRB1535CTDITR-ND	800	561.60
	15.0	40	150	0.1	0.7	MBRB1540CTDICT-ND	1.43	1.12	.88	MBRB1540CTDITR-ND	800	572.80
	15.0	45	150	0.1	0.7	MBRB1545CTDICT-ND	1.46	1.14	.90	MBRB1545CTDITR-ND	800	583.20
	16.0	30	175	1.0	0.55	SBG1630CTDICT-ND	1.51	1.18	.93	SBG1630CTDITR-ND	800	604.80
	16.0	40	175	1.0	0.55	SBG1640CTDI-ND	1.57	1.22	.97	—	—	—
	20.0	40	225	1.0	0.55	SBG2040CTDI-ND	1.70	1.33	1.05	—	—	—
	30.0	40	250	1.0	0.55	SBG3040CTDI-ND	2.30	1.79	1.42	—	—	—
9	3.0	40	50	0.5	0.50	SBM340DICT-ND *NEW!*	1.35	1.17	.90	SBM340DITR-ND *NEW!*	5,000	459.00/M
	3.0	60	50	0.2	0.63	MBRM360DICT-ND	1.06	.84	.64	MBRM360DITR-ND	5,000	408.00/M
	5.0	40	100	0.5	0.52	SBM540DICT-ND *NEW!*	1.65	1.43	1.10	SBM540DITR-ND *NEW!*	5,000	561.00/M
	5.0	60	100	0.2	0.69	MBRM560DICT-ND	1.50	1.30	1.00	MBRM560DITR-ND	5,000	510.00/M
	5.0	100	100	0.2	0.81	MBRM5100DICT-ND	1.32	1.04	.80	MBRM5100DITR-ND	5,000	510.00/M
	10.0	40	150	0.3	0.51	SBM1040DICT-ND	1.46	1.14	.90	SBM1040DITR-ND	5,000	691.00/M
10	0.5	20	5.5	—	0.300	B0520LWDICT-ND	.50	.40	.30	B0520LWDITR-ND	3,000	150.00/M
	0.5	30	5.5	—	0.375	B0530WDICT-ND	.50	.40	.30	B0530WDITR-ND	3,000	150.00/M
	0.5	40	5.5	—	0.510	B0540WDICT-ND	.50	.40	.30	B0540WDITR-ND	3,000	150.00/M
	1.0	30	12	—	0.42	B130LAWDICT-ND *NEW!*	.68	.54	.41	B130LAWDITR-ND *NEW!*	3,000	214.00/M
	1.0	40	25	1.0	0.320	1N5819HWDICT-ND	.72	.58	.44	1N5819HWDITR-ND	3,000	239.00/M
11	8.0	45V	200	8.0	0.55	SBL845DI-ND	1.46	1.14	.90	—	—	—
	16.0	45V	275	16.0	0.63	SBL1645DI-ND	1.67	1.31	1.03	—	—	—
12	10.0	45V	250	10.0	0.60	SBL1045CTDI-ND	1.54	1.20	.95	—	—	—
	16.0	20V	250	10.0	0.65	SR1602-ND†	3.08	2.31	1.93	—	—	—
	16.0	45V	250	0.5	0.55	SBL1645CTDI-ND	1.78	1.39	1.10	—	—	—
	20.0	45V	250	20.0	0.60	SBL2045CTDI-ND	1.89	1.47	1.17	—	—	—
	30.0	45V	250	1.0	0.55	SBL3045CTDI-ND	2.67	2.08	1.65	—	—	—

Fig. 9 — POWERMITE®3

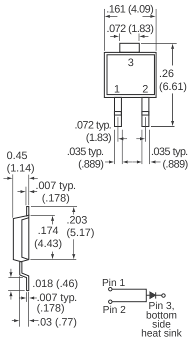


Fig. 10 — SOD-123

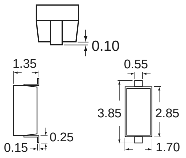


Fig. 11 — TO-220

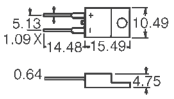
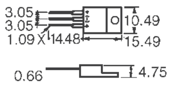


Fig. 12 — TO-220



Operating and Storage Temperature: -65°C to +150°C. † Dual rectifier package

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Fast Schottky Barrier Diodes

Fig.	Peak Rev. Voltage VRRM(V)	Leakage Current	Forward Volt. @ IF		Junction Cap. (pF)	Reverse Recovery Time(nS)	Power Dissipation Ptot(mW)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			VF	IF(mA)					1	10	100		Size	Pricing
1	20	5µA	0.37	20	50	10	400	SD103CDICT-ND	.48	.38	.29	SD103CDITB-ND‡	10,000	126.00/M
	30	5µA	0.37	20	50	10	400	SD103BDICT-ND	.48	.38	.29	SD103BDITB-ND‡	10,000	126.00/M
	40	5µA	0.37	20	50	10	400	SD103ADICT-ND	.48	.38	.29	SD103ADITB-ND‡	10,000	126.00/M
	40	200nA	0.39	1	2.2	1	400	SD101CDICT-ND	.52	.40	.29	SD101CDITB-ND‡	10,000	120.00/M
	50	200nA	0.40	1	2.1	1	400	SD101BDICT-ND	.52	.40	.29	SD101BDITB-ND‡	10,000	120.00/M
	60	200nA	0.41	1	2.0	1	400	SD101ADICT-ND	.52	.40	.29	SD101ADITB-ND‡	10,000	120.00/M
2	20	5µA	0.37	20	50	10	400	LLSD103CDICT-ND	.55	.44	.33	LLSD103CDITR-ND*	2,500	154.00/M
	30	5µA	0.37	20	50	10	400	LLSD103BDICT-ND	.55	.44	.33	LLSD103BDITR-ND*	2,500	154.00/M
	40	5µA	0.37	20	50	10	400	LLSD103ADICT-ND	.55	.44	.33	LLSD103ADITR-ND*	2,500	154.00/M
	40	200nA	0.39	1	2.2	1	400	LLSD101CDICT-ND	.45	.36	.27	LLSD101CDITR-ND*	2,500	126.00/M
	50	200nA	0.40	1	2.1	1	400	LLSD101BDICT-ND	.45	.36	.27	LLSD101BDITR-ND*	2,500	126.00/M
	60	200nA	0.41	1	2.0	1	400	LLSD101ADICT-ND	.45	.36	.27	LLSD101ADITR-ND*	2,500	126.00/M
3	20	100µA	0.31	100	170	—	200	B0520WSDICT-ND	.60	.48	.36	B0520WSDITR-ND*	3,000	180.00/M
	20	5µA	0.37	20	50	10	200	SD103CWSDICT-ND	.60	.48	.36	SD103CWSDITR-ND*	3,000	200.00/M
	30	500nA	1.0	200	10	5	200	BAT42WSDICT-ND	.64	.52	.39	BAT42WSDITR-ND*	3,000	213.00/M
	30	100µA	0.33	2	10	5	200	BAT43WSDICT-ND	.64	.52	.39	BAT43WSDITR-ND*	3,000	213.00/M
	30	2.0µA	0.32	1	10	5	200	BAT54WSDICT-ND	.80	.64	.48	BAT54WSDITR-ND*	3,000	266.00/M
	30	5µA	0.37	20	50	10	200	SD103BWSDICT-ND	.60	.48	.36	SD103BWSDITR-ND*	3,000	200.00/M
	40	200nA	0.39	1	2.2	1.0	200	SD101CWSDICT-ND	.63	.50	.38	SD101CWSDITR-ND*	3,000	188.00/M
	40	5.0µA	0.37	20	50	10	200	SD103AWSDICT-ND	.60	.48	.36	SD103AWSDITR-ND*	3,000	200.00/M
	40	500nA	0.37	1	2.0	—	250	SDMK0340LDICT-ND	.60	.48	.36	SDMK0340LDITR-ND*	3,000	200.00/M
	45	1.0µA	0.45	10	6.0	—	200	SDM10K45DICT-ND	.60	.48	.36	SDM10K45DITR-ND	3,000	200.00/M
	50	200nA	0.40	1	2.1	1.0	200	SD101BWSDICT-ND	.63	.50	.38	SD101BWSDITR-ND*	3,000	188.00/M
	60	200nA	0.41	1	2.0	1	200	SD101AWSDICT-ND	.63	.50	.38	SD101AWSDITR-ND*	3,000	188.00/M
	70	200nA	0.41	1.0	2.0	1.0	200	1N5711WSDICT-ND	.72	.58	.44	1N5711WSDITR-ND*	3,000	239.00/M
4	20	5µA	—	—	—	10	—	SD103-CWDICT-ND	.53	.42	.32	SD103-CWDITR-ND*	10,000	140.00/M
	30	100µA	1.0	200	10	5	200	BAT42WDICT-ND	.60	.48	.36	BAT42WDITR-ND*	3,000	180.00/M
	30	500nA	1.0	200	10	5.0	200	BAT43WDICT-ND	.60	.48	.36	BAT43WDITR-ND*	3,000	180.00/M
	30	5µA	—	—	—	10	—	SD103-BWDICT-ND	.53	.42	.32	SD103-BWDITR-ND*	10,000	140.00/M
	40	200nA	—	—	—	1	—	SD101-CWDICT-ND	.48	.38	.29	SD101-CWDITR-ND*	10,000	126.00/M
	40	5µA	—	—	—	10	—	SD103-AWDICT-ND	.53	.42	.32	SD103-AWDITR-ND*	10,000	140.00/M
	50	200nA	—	—	—	1	—	SD101-BWDICT-ND	.48	.38	.29	SD101-BWDITR-ND*	10,000	126.00/M
	60	200µA	1.0	15	2.0	1	400	1N6263WDICT-ND	.70	.56	.42	1N6263WDITR-ND*	3,000	210.00/M
	60	200nA	—	—	—	1	—	SD101-AWDICT-ND	.48	.38	.29	SD101-AWDITR-ND*	10,000	126.00/M

Fig. 1 — DO-35

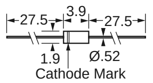


Fig. 2 — MiniMELF

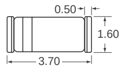


Fig. 3 — SOD-323

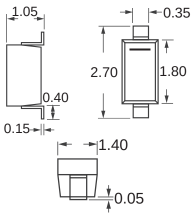
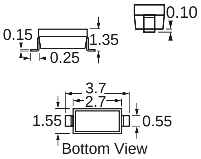


Fig. 4 — SOD-123



‡ TB = Tape & Box * TR = Tape & Reel

DIODES INCORPORATED

Schottky Barrier Double Diodes

(Top View Shown on all drawings)

Fig.	Repetitive Peak Reverse Voltage VRRM	Forward Continuous Current IF	Forward Voltage @ 100 mA	Leakage Current	Reverse Recovery Time	Package	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel*	
								10	100	1,000	Size	Pricing
1	30V	200mA	1.0V	2µA	5nS	SOT-23	BAT54DICT-ND	.40	.30	.16	3,000	150.00/M
	30V	200mA	1.0V	2µA	5nS	SOT-323	BAT54WDICT-ND	.48	.36	.20	3,000	180.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-23	BAS40DICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-323	BAS40WDICT-ND	.64	.48	.29	3,000	266.00/M
	40V	500mA	0.5V	50µA	—	SOT-23	BAT400DDICT-ND	.52	.39	.24	3,000	213.00/M
	40V	750mA	0.75V	100µA	—	SOT-23	BAT750DICT-ND	.58	.44	.27	3,000	239.00/M
	70V	70mA	1.0V	200uA	5nS	SOT-23	BAS70DICT-ND	.64	.48	.29	3,000	266.00/M
	70V	100mA	1.0V	100nA	5nS	SOT-323	BAS70WDICT-ND	.71	.53	.32	3,000	293.00/M
2	30V	200mA	1.0V	2µA	5nS	SOT-23	BAT54CDICT-ND	.48	.36	.22	3,000	200.00/M
	30V	200mA	1.0V	2µA	5nS	SOT-323	BAT54CWDICT-ND	.58	.44	.27	3,000	239.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-23	BAS40-05DICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-323	BAS40W-05DICT-ND	.64	.48	.29	3,000	266.00/M
	70V	70mA	1.0V	200nA	5nS	SOT-23	BAS70-05DICT-ND	.64	.48	.29	3,000	266.00/M
	70V	100mA	1.0V	100nA	5nS	SOT-323	BAS70W-05DICT-ND	.71	.53	.32	3,000	293.00/M
3	30V	200mA	1.0V	2µA	5nS	SOT-23	BAT54SDICT-ND	.48	.36	.22	3,000	200.00/M
	30V	200mA	1.0V	2µA	5nS	SOT-323	BAT54SWDICT-ND	.58	.44	.27	3,000	239.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-23	BAS40-04DICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-323	BAS40W-04DICT-ND	.64	.48	.29	3,000	266.00/M
	70V	70mA	1.0V	200nA	5nS	SOT-23	BAS70-04DICT-ND	.64	.48	.29	3,000	266.00/M
	70V	100mA	1.0V	100nA	5nS	SOT-323	BAS70W-04DICT-ND	.71	.53	.32	3,000	293.00/M
4	30V	200mA	1.0V	2µA	5nS	SOT-23	BAT54ADICT-ND	.48	.36	.22	3,000	200.00/M
	30V	200mA	1.0V	2µA	5nS	SOT-323	BAT54AWDICT-ND	.58	.44	.27	3,000	239.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-23	BAS40-06DICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-323	BAS40W-06DICT-ND	.64	.48	.29	3,000	266.00/M
	70V	70mA	1.0V	200nA	5nS	SOT-23	BAS70-06DICT-ND	.64	.48	.29	3,000	266.00/M
	70V	200mA	1.0V	100nA	5nS	SOT-23	BAS70H-06DICT-ND	.64	.48	.29	—	—
	70V	100mA	1.0V	100nA	5nS	SOT-323	BAS70W-06DICT-ND	.71	.53	.32	3,000	293.00/M
5	30V	200mA	1.0V	2µA	5nS	SOT-363	BAT54DWDICT-ND	.65	.50	.34	3,000	325.00/M
6	30V	200mA	1.0V	2.0µA	5nS	SOT-523	BAT54TDICT-ND	.40	.30	.16	3,000	150.00/M
	40V	30mA	0.29V	1.0µA	—	SOT-523	SDMP0340LTDICT-ND *NEW!*	.65	.49	.28	3,000	257.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-523	BAS40TDICT-ND	.52	.39	.24	3,000	213.00/M
	45V	1000mA	0.45V	1µA	—	SOT-523	SDM10P45DICT-ND	.65	.49	.28	3,000	257.00/M
7	30V	200mA	1.0V	2.0µA	5nS	SOT-523	BAT54ATDICT-ND	.48	.36	.22	3,000	200.00/M
	40V	200mA	0.37V	1µA	—	SOT-323	SDMG0340LADICT-ND•	.54	.41	.22	3,000	203.00/M
	40V	200mA	1.0V	200nS	5nS	SOT-523	BAS40T-06DICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	0.37V	1µA	—	SOT-523	SDMP0340LATDICT-ND•	.54	.41	.22	3,000	203.00/M
8	30V	200mA	1.0V	2.0µA	5nS	SOT-523	BAT54CTDICT-ND	.48	.36	.22	3,000	200.00/M
	40V	30mA	0.29V	1.0µA	—	SOT-523	SDMP0340LCTDICT-ND *NEW!*	.65	.49	.28	3,000	257.00/M
	40V	200mA	0.37V	1µA	—	SOT-323	SDMG0340LCDICT-ND•	.54	.41	.22	3,000	203.00/M
9	20V	400mA	0.31V	100µA	—	SOT-23	SDM40E20LSDICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	0.37V	1µA	—	SOT-323	SDMG0340LSDICT-ND•	.54	.41	.22	3,000	203.00/M
	40V	200mA	1.0V	200nA	5nS	SOT-523	BAS40-04T-7DICT-ND	.52	.39	.24	3,000	213.00/M
	30V	200mA	1.0V	2.0µA	5nS	SOT-523	BAT54STDICT-ND *NEW!*	.65	.49	.28	3,000	257.00/M
	40V	200mA	0.37V	1µA	—	SOT-523	SDMP0340LSTDICT-ND•	.54	.41	.22	3,000	203.00/M

Fig. 1

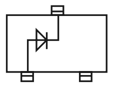


Fig. 2

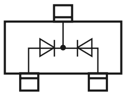


Fig. 3

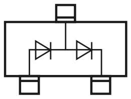


Fig. 4

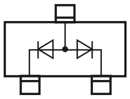


Fig. 5

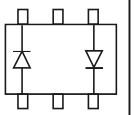


Fig. 6

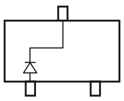


Fig. 7

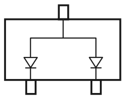


Fig. 8

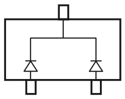
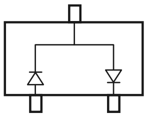


Fig. 9



* For Tape and Reel Part No., change "CT-ND" to "TR-ND".

• Forward Voltage @ 1.0mA

Schottky Barrier Diode Arrays SOT-363/SOT-26 (200mW)

Fig.	Peak Voltage VRRM(V)	Leakage Current	Forward Volt. @IF		Junction Cap. (pF)	Reverse Recover Time (nS)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000
			VF	IF(mA)				1	10	100		
1	30	2.0µA	0.40	10	10	5.0	BAT54SDWDICT-ND	.96	.77	.58	BAT54SDWDITR-ND	319.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-04DICT-ND	.80	.64	.48	BAS40DW-04DITR-ND	266.00/M
	40	—	0.37	20	50	10.0	SD103ASDMDICT-ND†	.72	.58	.44	SD103ASDMDITR-ND†	239.00/M
	45	1.0µA	0.45	10	6.0	—	SDM10M45SDDICT-ND† *NEW!*	1.08	.87	.65	SDM10M45SDDITR-ND† *NEW!*	342.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70DW-04DICT-ND	.83	.65	.50	BAS70DW-04DITR-ND	325.00/M
2	30	2.0µA	0.40	10	10	5.0	BAT54CDWDICT-ND	.96	.77	.58	BAT54CDWDITR-ND	319.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-05DICT-ND	.80	.64	.48	BAS40DW-05DITR-ND	266.00/M
3	30	2.0µA	0.40	10	10	5.0	BAT54ADWDICT-ND	.96	.77	.58	BAT54ADWDITR-ND	319.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-06DICT-ND	.80	.64	.48	BAS40DW-06DITR-ND	266.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70DW-06DICT-ND	.83	.65	.50	BAS70DW-06DITR-ND	325.00/M
4	30	2.0µA	0.32	1.0	10	5.0	BAT54TWDICT-ND	.80	.64	.48	BAT54TWDITR-ND	266.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40TWDICT-ND	.81	.65	.49	BAS40TWDITR-ND	257.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70TWDICT-ND	.88	.71	.53	BAS70TWDITR-ND	293.00/M
5	30	2.0µA	0.45	10	10	5.0	QSBT40DICT-ND	1.09	.86	.66	QSBT40DITR-ND	429.00/M
6	30	2.0µA	0.40	10	10	5.0	BAT54BRWDICT-ND	.96	.77	.58	BAT54BRWDITR-ND	319.00/M
	40	2.0µA	0.38	1.0	5.0	5.0	BAS40BRWDICT-ND	.96	.77	.58	BAS40BRWDITR-ND	319.00/M
7	30	2.0µA	0.40	10	10	5.0	BAT54JWDICT-ND	.64	.52	.39	BAT54JWDITR-ND	213.00/M
8	40	2.0µA	0.37	20	50	10.0	SD103ATWDICT-ND *NEW!*	.72	.58	.44	SD103ATWDITR-ND *NEW!*	228.00/M

Fig. 1 SOT-363/SOT-26

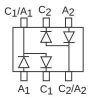


Fig. 2 SOT-363

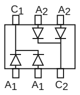


Fig. 3 SOT-363

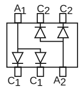


Fig. 4 SOT-363

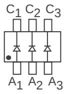


Fig. 5 SOT-363

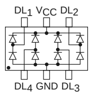


Fig. 6 SOT-363

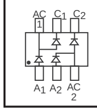


Fig. 7 SOT-363

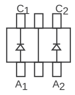
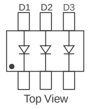


Fig. 8 SOT-363



† Power Dissipation: 225mW; SOT-26 Package

Switching Diode Arrays Surface Mount

Fig.	Peak Rev. Volt. VRRM (V)	Reverse Curr. max		For. Volt. max. @		Capac- itance C max. (pF)	Reverse Recovery Time Trr max. (nS)	Power Dissi- pation Pd. (mW)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Pricing 3,000
		IR (µA)	VR (V)	VF (V)	IF (mA)					1	10	100		
1	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HAQWDICT-ND	.60	.48	.36	MMBD4448HAQWDITR-ND	200.00/M
2	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HCQWDICT-ND	.60	.48	.36	MMBD4448HCQWDITR-ND	180.00/M
3	75	1.0	75	1.0	50	2.0	4.0	200	BAS16TWDICT-ND	.45	.36	.27	BAS16TWDITR-ND	135.00/M
3	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HTWDICT-ND	.50	.40	.30	MMBD4448HTWDITR-ND	150.00/M
4	75	2.5	75	1.0	50	2.0	4.0	200	BAV70DWDICT-ND	.50	.40	.30	BAV70DWDITR-ND	150.00/M
4	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HCDWDICT-ND	.60	.48	.36	MMBD4448HCDWDITR-ND	180.00/M
5	75	2.5	75	1.0	50	2.0	4.0	200	BAV99DWDICT-ND	.50	.40	.30	BAV99DWDITR-ND	150.00/M
5	80	0.1	70	1.0	100	3.5	4.0	200	MMBD4448HSDWDICT-ND	.60	.48	.36	MMBD4448HSDWDITR-ND	180.00/M
6	75	2.5	75	1.0	50	2.0	4.0	200	BAW56DWDICT-ND	.50	.40	.30	BAW56DWDITR-ND	150.00/M
6	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HADWDICT-ND	.60	.48	.36	MMBD4448HADWDITR-ND	180.00/M
7	75	2.5	75	1.0	50	2.0	4.0	200	BAV756DWDICT-ND	.50	.40	.30	BAV756DWDITR-ND	150.00/M
8	75	2.5	75	1.0	50	2.0	4.0	200	BAW567DWDICT-ND	.50	.40	.30	BAW567DWDITR-ND	150.00/M
9	350	0.1	240	1.0	100	5.0	50	350	MMBD3004BRMDICT-ND *NEW!*	.68	.54	.41	MMBD3004BRMDITR-ND *NEW!*	214.00/M

Fig. 1 SOT-363

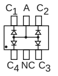


Fig. 2 SOT-353

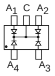


Fig. 3 SOT-363

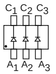


Fig. 4 SOT-363

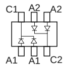


Fig. 6 SOT-363

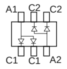


Fig. 5 SOT-363

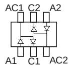


Fig. 7 SOT-363

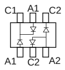


Fig. 8 SOT-363

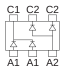
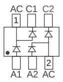


Fig. 9 SOT-26

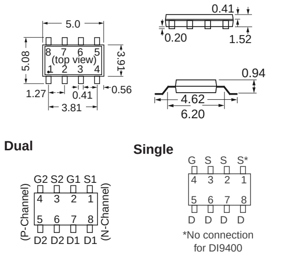


DIODES INCORPORATED

Surface Mount MOSFETS

V_{DSS}	R_{DS} (On) OHMS	I_D Cont. (A)	P_D (watts)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500	5,000
Single P-Channel Enhancement Mode FETs										
-30	0.24	3.4	2.5	DI9400CT-ND	4.50	3.75	3.00	—	—	—
-20	0.12	4.3	2.5	DI9405CT-ND	4.68	3.90	3.12	DI9405TR-ND	1560.00/M	1365.00/M
-20	0.12	5.3	2.5	DI9430CT-ND	4.92	4.10	3.28	DI9430TR-ND	1640.00/M	1435.00/M
-30	0.064	5.3	2.5	DI9435CT-ND	4.98	4.15	3.32	DI9435TR-ND	1660.00/M	1453.00/M
Dual N & P-Channel Enhancement Mode FETs										
20, -20	0.11, 0.35	3, -2.5	1.6	DI9942CT-ND	5.40	4.50	3.60	DI9942TR-ND	1800.00/M	1575.00/M
30, -30	0.11, -0.24	3.7, -2.9	2	DI9952CT-ND	5.58	4.65	3.72	—	—	—
Dual N-Channel Enhancement Mode FETs										
60	0.17	3.5	1.6	DI9945CT-ND	5.40	4.50	3.60	DI9945TR-ND	1800.00/M	1575.00/M
30	0.11	3.7	2	DI9956CT-ND	5.22	4.35	3.48	DI9956TR-ND	1740.00/M	1523.00/M

SO-8



Fast Recovery Rectifiers

Fig.	Pkg.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Max. Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
									1	10	100		Size	Pricing
1	DO-41	1.0	50	50	5.0	1.2	200	1N4933DICT-ND	.39	.23	.15	1N4933DITR-ND	5,000	46.00/M
			100	50	5.0	1.2	200	1N4934DICT-ND	.39	.23	.15	1N4934DITR-ND	5,000	46.00/M
			200	50	5.0	1.2	200	1N4935DICT-ND	.39	.23	.15	1N4935DITR-ND	5,000	46.00/M
			400	50	5.0	1.2	200	1N4936DICT-ND	.39	.23	.15	1N4936DITR-ND	5,000	46.00/M
			600	50	5.0	1.2	200	1N4937DICT-ND	.39	.23	.15	1N4937DITR-ND	5,000	46.00/M
			800	50	5.0	1.3	500	FR106DICT-ND	.44	.30	.21	FR106DITR-ND	5,000	72.00/M
			1000	50	5.0	1.3	500	FR107DICT-ND	.44	.30	.21	FR107DITR-ND	5,000	72.00/M
2	MELF	1.0	50	30	5.0	1.2	200	DL4933DICT-ND	—	.33	.24	DL4933DITR-ND	5,000	104.00/M
			100	30	5.0	1.2	200	DL4934DICT-ND	—	.33	.24	DL4934DITR-ND	5,000	104.00/M
			200	30	5.0	1.2	200	DL4935DICT-ND	—	.33	.24	DL4935DITR-ND	5,000	104.00/M
			400	30	5.0	1.2	200	DL4936DICT-ND	—	.33	.24	DL4936DITR-ND	5,000	104.00/M
			600	30	5.0	1.2	200	DL4937DICT-ND	.42	.33	.24	DL4937DITR-ND	5,000	104.00/M
3	DO-201AD	3.0	50	200	10.0	1.3	150	FR301DICT-ND	.41	.32	.23	FR301DITR-ND	1,200	113.00/M
			100	200	10.0	1.3	150	FR302DICT-ND	.42	.32	.24	FR302DITR-ND	1,200	115.00/M
			200	200	10.0	1.3	150	FR303DICT-ND	.44	.34	.25	FR303DITR-ND	1,200	121.00/M
			400	200	10.0	1.3	150	FR304DICT-ND	.44	.34	.25	FR304DITR-ND	1,200	121.00/M
			600	200	10.0	1.3	250	FR305DICT-ND	.48	.37	.27	FR305DITR-ND	1,200	133.00/M
			800	200	10.0	1.3	500	FR306DICT-ND	.48	.37	.27	FR306DITR-ND	1,200	133.00/M
			1000	200	10.0	1.3	500	FR307DICT-ND	.57	.44	.32	FR307DITR-ND	1,200	158.00/M
4	R-6	6.0	50	300	10.0	1.3	150	FR601DICT-ND	.64	.52	.39	FR601DITR-ND	500	132.00
			100	300	10.0	1.3	150	FR602DICT-ND	.68	.55	.41	FR602DITR-ND	500	140.50
			200	300	10.0	1.3	150	FR603DICT-ND	.72	.58	.44	FR603DITR-ND	500	148.50
			400	300	10.0	1.3	150	FR604DICT-ND	.76	.61	.46	FR604DITR-ND	500	157.00
			600	300	10.0	1.3	250	FR605DICT-ND	.84	.68	.51	FR605DITR-ND	500	173.50
			800	300	10.0	1.3	500	FR606DICT-ND	.92	.74	.56	FR606DITR-ND	500	190.00
5	TO-220A	8.0	50	300	10.0	1.3	150	FR801-ND	1.19	.94	.72	—	—	—
			100	300	10.0	1.3	150	FR802-ND	1.25	.99	.76	—	—	—
			200	300	10.0	1.3	150	FR803-ND	1.32	1.04	.80	—	—	—
			400	300	10.0	1.3	150	FR804-ND	1.45	1.15	.88	—	—	—
			600	300	10.0	1.3	250	FR805-ND	1.55	1.23	.94	—	—	—
6	TO-220	16	150	125	10.0	.975	35	SF163DI-ND	2.08	1.62	1.28	—	—	—
			200	125	10.0	.975	35	SF164DI-ND	2.13	1.66	1.32	—	—	—
7	SMA	1.0	100	30	5.0	1.3	150	RS1BDICT-ND	.55	.43	.31	RS1BDITR-ND	5,000	136.00/M
		1.0	200	30	5.0	1.3	150	RS1DDICT-ND	.45	.36	.27	RS1DDITR-ND	5,000	126.00/M
		1.0	400	30	5.0	1.3	150	RS1GDICT-ND	.48	.38	.29	RS1GDITR-ND	5,000	133.00/M
		1.0	600	30	5.0	1.3	250	RS1JDICT-ND	.50	.40	.30	RS1JDITR-ND	5,000	140.00/M
		1.0	800	30	5.0	1.3	500	RS1KDICT-ND	.53	.42	.32	RS1KDITR-ND	5,000	147.00/M
		1.0	1000	30	5.0	1.3	500	RS1MDICT-ND	.55	.44	.33	RS1MDITR-ND	5,000	154.00/M
		1.5	50	50	5.0	1.3	150	RS2AADICT-ND	.50	.40	.30	RS2AADITR-ND	5,000	140.00/M
		1.5	100	50	5.0	1.3	150	RS2BADICT-ND	.53	.42	.32	RS2BADITR-ND	5,000	147.00/M
		1.5	400	50	5.0	1.3	150	RS2GADICT-ND	.58	.46	.35	RS2GADITR-ND	5,000	161.00/M
		1.5	1000	50	5.0	1.3	500	RS2MADICT-ND	.70	.56	.42	RS2MADITR-ND	5,000	196.00/M
8	SMB	1.0	50	30	5.0	1.0	150	FR1ADICT-ND	.53	.41	.30	FR1ADITR-ND	3,000	138.00/M
		1.0	100	30	5.0	1.0	150	FR1BDICT-ND	.45	.36	.27	FR1BDITR-ND	3,000	135.00/M
		1.0	200	30	5.0	1.0	150	FR1DDICT-ND	.48	.38	.29	FR1DDITR-ND	3,000	143.00/M
		1.0	200	30	5.0	1.3	150	RS1DBDICT-ND	.45	.36	.27	RS1DBDITR-ND	3,000	135.00/M
		1.0	400	30	5.0	1.0	150	FR1GDICT-ND	.50	.40	.30	FR1GDITR-ND	3,000	150.00/M
		1.0	600	30	5.0	1.0	250	FR1JDICT-ND	.52	.42	.32	FR1JDITR-ND	3,000	156.00/M
		1.0	800	30	5.0	1.0	500	FR1KDICT-ND	.54	.44	.33	FR1KDITR-ND	3,000	162.00/M
		1.0	1000	30	5.0	1.0	500	FR1MDICT-ND	.57	.46	.34	FR1MDITR-ND	3,000	170.00/M
		1.5	50	50	5.0	1.3	150	RS2ADICT-ND	.50	.40	.30	RS2ADITR-ND	3,000	150.00/M
		3.0	50	100	5.0	1.3	150	RS3ABDICT-ND	.84	.68	.51	RS3ABDITR-ND	3,000	279.00/M
		3.0	600	100	5.0	1.3	250	RS3JBDICT-ND	.89	.71	.54	RS3JBDITR-ND	3,000	351.00/M
9	SMC	3.0	50	100	5.0	1.3	150	RS3ADICT-ND	.84	.68	.51	RS3ADITR-ND	3,000	279.00/M
		3.0	100	100	5.0	1.3	150	RS3BDICT-ND	.88	.71	.53	RS3BDITR-ND	3,000	293.00/M
		3.0	200	100	5.0	1.3	150	RS3DDICT-ND	.92	.74	.56	RS3DDITR-ND	3,000	306.00/M
		3.0	400	100	5.0	1.3	150	RS3GDICT-ND	.96	.77	.58	RS3GDITR-ND	3,000	319.00/M
		3.0	800	100	5.0	1.3	500	RS3KDICT-ND	.96	.76	.58	RS3KDITR-ND	3,000	377.00/M
		3.0	1000	100	5.0	1.3	500	RS3MDICT-ND	.99	.78	.60	RS3MDITR-ND	3,000	390.00/M

Operating and Storage Temperature: -65°C to +175°C. Reverse Recovery Test @ I_F = 1.0A, V_R = 30V.

Fig. 1 — DO-41

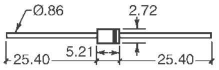


Fig. 2 MELF (DL-41)

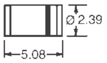


Fig. 3 — DO-201AD

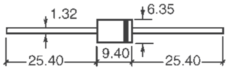


Fig. 4 — R-6

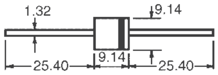


Fig. 5 — TO-220A

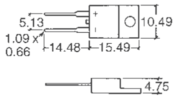


Fig. 6 — TO-220

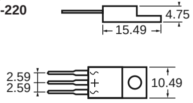


Fig. 7 — SMA

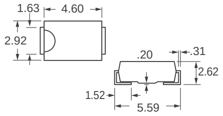


Fig. 8 — SMB

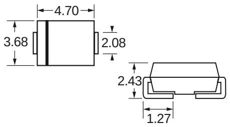
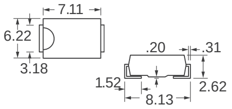


Fig. 9 — SMC



DIODES INCORPORATED

Ultra Fast Switching Rectifiers

Operating Temperature Range: -65°C to +150°C

Fig.	Pkg.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (µA)	Max. Forward Voltage Peak (V)	Max. Rev. Recovery Time (nS)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	DO41	1.0	50	30	5.0	1.0	50	UF1001DICT-ND	.45	.31	.22	UF1001DITR-ND	5,000	74.00/M
			100	30	5.0	1.0	50	UF1002DICT-ND	.39	.29	.21	UF1002DITR-ND	5,000	78.00/M
			200	30	5.0	1.0	50	UF1003DICT-ND	.43	.32	.23	UF1003DITR-ND	5,000	87.00/M
			400	30	5.0	1.3	50	UF1004DICT-ND	.50	.37	.26	UF1004DITR-ND	5,000	100.00/M
			600	30	5.0	1.7	75	UF1005DICT-ND	.44	.34	.25	UF1005DITR-ND	5,000	109.00/M
			800	30	5.0	1.7	75	UF1006DICT-ND	.52	.40	.29	UF1006DITR-ND	5,000	128.00/M
			1000	30	5.0	1.7	75	UF1007DICT-ND	.48	.38	.29	UF1007DITR-ND	5,000	133.00/M
2	D2-PAK	16	200	100	5.0	0.975	25	MURB1620CTDICT-ND	2.30	1.79	1.42	MURB1620CTDITR-ND	800	918.40
3	SMA	1.0	50	30	2.0	0.9	25	ES1ADICT-ND	.68	.54	.41	ES1ADITR-ND	5,000	189.00/M
			100	30	2.0	0.9	25	ES1BDICT-ND	.70	.56	.42	ES1BDITR-ND	5,000	196.00/M
			150	30	5.0	0.98	20	ES1CDICT-ND	.73	.58	.44	ES1CDITR-ND	5,000	203.00/M
			200	30	2.0	0.9	25	ES1DDICT-ND	.60	.48	.36	ES1DDITR-ND	5,000	191.00/M
	SMA	1.0	50	30	5.0	1.0	50	US1ADICT-ND	.55	.44	.33	US1ADITR-ND	5,000	154.00/M
			100	30	5.0	1.0	50	US1BDICT-ND	.60	.48	.36	US1BDITR-ND	5,000	168.00/M
			200	30	5.0	1.0	50	US1DDICT-ND	.65	.52	.39	US1DDITR-ND	5,000	182.00/M
			400	30	5.0	1.3	50	US1GDICT-ND	.70	.56	.42	US1GDITR-ND	5,000	196.00/M
			600	30	5.0	1.7	75	US1JDICT-ND	.60	.48	.36	US1JDITR-ND	5,000	191.00/M
			800	30	5.0	1.7	75	US1KDICT-ND	.64	.52	.39	US1KDITR-ND	5,000	204.00/M
			1000	30	5.0	1.7	75	US1MDICT-ND	.68	.55	.41	US1MDITR-ND	5,000	217.00/M
	SMA	2.0	50	50	5.0	0.92	25	ES2AADICT-ND	.64	.52	.39	ES2AADITR-ND	5,000	204.00/M
			100	50	5.0	0.92	25	ES2BADICT-ND	.68	.55	.41	ES2BADITR-ND	5,000	217.00/M
			150	50	5.0	0.92	25	ES2CADICT-ND	.72	.58	.44	ES2CADITR-ND	5,000	230.00/M
			200	50	5.0	0.9	25	ES2DADICT-ND	.76	.61	.46	ES2DADITR-ND	5,000	242.00/M
4	SMB	1.0	200	40	2.0	0.875	25	MURS120DICT-ND	.60	.48	.36	MURS120DITR-ND	3,000	200.00/M
			400	35	5.0	1.25	50	MURS140DICT-ND	.60	.48	.36	MURS140DITR-ND	3,000	200.00/M
			600	35	5.0	1.25	50	MURS160DICT-ND	.64	.52	.39	MURS160DITR-ND	3,000	213.00/M
	SMB	2.0	50	50	5.0	0.9	25	ES2ADICT-ND	.64	.52	.39	ES2ADITR-ND	3,000	213.00/M
			100	50	5.0	0.9	25	ES2BDICT-ND	.68	.55	.41	ES2BDITR-ND	3,000	226.00/M
			150	50	5.0	0.9	25	ES2CDICT-ND	.72	.58	.44	ES2CDITR-ND	3,000	239.00/M
			200	50	5.0	0.9	25	ES2DDICT-ND	.76	.61	.46	ES2DDITR-ND	3,000	253.00/M
	SMB	3.0	50	100	10	0.9	25	ES3ABDICT-ND	.89	.71	.54	ES3ABDITR-ND	3,000	351.00/M
			100	100	10	0.9	25	ES3BBDICT-ND	.84	.67	.51	ES3BBDITR-ND	3,000	332.00/M
			150	100	10	0.9	25	ES3CBDICT-ND	.89	.71	.54	ES3CBDITR-ND	3,000	351.00/M
			200	100	10	0.9	25	ES3DBDICT-ND	1.06	.84	.64	ES3DBDITR-ND	3,000	416.00/M
5	SMC	3.0	50	100	10	0.9	25	ES3ADICT-ND	.89	.71	.54	ES3ADITR-ND	3,000	351.00/M
			100	100	10	0.9	25	ES3BDICT-ND	.84	.67	.51	ES3BDITR-ND	3,000	332.00/M
			150	100	10	0.9	25	ES3CDICT-ND	.89	.71	.54	ES3CDITR-ND	3,000	351.00/M
			200	100	10	0.9	25	ES3DDICT-ND	1.06	.84	.64	ES3DDITR-ND	3,000	416.00/M

Fig. 1 — DO-41

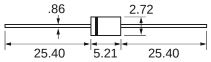


Fig. 2 — D2-PAK

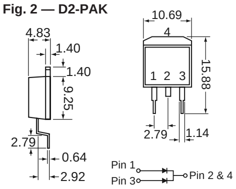


Fig. 3 — SMA

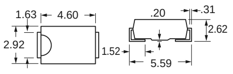


Fig. 4 — SMB

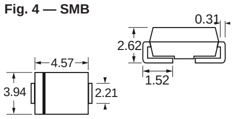
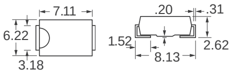


Fig. 5 — SMC



High Speed Switching Diodes

Fig.	Peak Rev. Volt. VRWM (V)	Reverse Curr. max. IR (µA)	VR (V)	Forward Volt. max. @ VF (V)	IF (mA)	Capacitance C max. (pF)	Reverse Recovery Time Trr max. (nS)	Power Dissipation Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Tape & Reel* Size	Pricing
1	75	5.0	75	1.0	10	4.0	4.0	500	1N4148DICT-ND	1.20	6.75	24.38	10,000	15.00/M
2	150	0.1	150	1.0	100	1.5	50	500	BAV102DICT-ND	2.25	15.60	69.00	2,500	60.00/M
	200	0.1	200	1.0	100	1.5	50	500	BAV103DICT-ND	2.25	15.60	69.00	2,500	60.00/M
	75	5.0	75	1.0	10	4.0	4.0	500	LL4148DICT-ND	2.00	13.00	54.00	10,000	34.00/M
	50	0.1	50	1.0	200	2.5	4.0	500	LL4150DICT-ND	2.00	13.00	54.00	2,500	47.00/M
	50	0.05	50	1.0	50	2.0	4.0	500	LL4151DICT-ND	2.00	13.00	54.00	2,500	47.00/M
	75	5.0	75	1.0	100	4.0	4.0	500	LL4448DICT-ND	2.00	13.00	54.00	2,500	47.00/M
3	75	2.5	75	1.0	50	2.0	4.0	350	BAL99DICT-ND	3.00	20.80	92.00	3,000	80.00/M
	75	1.0	70	.855	10	2.0	6.0	350	BAS16DICT-ND	2.25	15.60	69.00	3,000	60.00/M
	100	0.1	100	1.0	100	5.0	50	250	BAS19DICT-ND	2.81	19.80	90.00	3,000	81.00/M
	150	0.1	150	1.0	100	5.0	50	250	BAS20DICT-ND	2.81	19.80	90.00	3,000	81.00/M
	200	0.1	250	1.0	100	5.0	50	250	BAS21DICT-ND	2.81	19.80	90.00	3,000	81.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	BAS116DICT-ND	3.00	20.80	92.00	3,000	80.00/M
	200	0.1	250	1.0	100	5.0	50	350	BAV23ADICT-ND	3.13	22.00	100.00	3,000	90.00/M
	200	0.1	250	1.0	100	5.0	50	350	BAV23CDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	200	0.1	200	1.0	100	5.0	50	350	BAV23SDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	70	2.5	75	.855	10	1.5	6.0	350	BAV70DICT-ND	2.63	18.20	80.50	3,000	70.00/M
	75	2.5	70	.855	10	1.5	6.0	350	BAV99DICT-ND	3.00	20.80	92.00	3,000	80.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	BAV170DICT-ND	3.13	22.00	100.00	3,000	90.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	BAV199DICT-ND	3.13	22.00	100.00	3,000	90.00/M
	75	2.5	70	.855	10	2.0	6.0	350	BAW56DICT-ND	2.81	19.80	90.00	3,000	81.00/M
	85	.005	75	1.0	10	3.0	3.0§	250	BAW156DICT-ND	3.13	22.00	100.00	3,000	90.00/M
	75	1.0	75	1.0	50	2.0	4.0	350	MMBD914DICT-ND	2.25	15.60	69.00	3,000	60.00/M
	240	0.1	240	1.0	100	5.0	50	350	MMBD2004SDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	300	0.1	240	1.0	100	5.0	50	350	MMBD3004SDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	75	2.5	75	1.0	50	2.0	4.0	350	MMBD4148DICT-ND	2.25	15.60	69.00	3,000	60.00/M
	75	2.5	75	1.0	100	4.0	4.0	350	MMBD4448DICT-ND	2.25	15.60	69.00	3,000	60.00/M
	80	1.0	75	1.0	100	3.5	4.0	350	MMBD4448HDICT-ND	2.25	15.60	69.00	3,000	60.00/M
	75	3.0	100	1.25	150	2.0	4.0	350	MMBD7000DICT-ND	3.00	20.80	92.00	3,000	80.00/M
4	75	1.0	75	.855	10	2.0	4.0	200	BAS16WDICT-ND	2.70	18.72	82.80	3,000	72.00/M
	100	15	120	1.0	100	5.0	50	200	BAS19WDICT-ND	3.38	23.76	108.00	3,000	97.00/M
	150	15	200	1.0	100	5.0	50	200	BAS20WDICT-ND	3.38	23.76	108.00	3,000	97.00/M
	200	15	250	1.0	100	5.0	50	200	BAS21WDICT-ND	3.38	23.76	108.00	3,000	97.00/M
	75	2.5	75	.855	10	2.0	4.0	200	BAV70WDICT-ND	3.15	21.84	96.60	3,000	84.00/M
	75	2.5	75	.855	10	2.0	4.0	200	BAV99WDICT-ND	3.00	21.12	96.00	3,000	86.00/M
	75	2.5	75	.855	10	2.0	4.0	200	BAW56WDICT-ND	3.38	23.76	108.00	3,000	97.00/M
	75	2.5	75	1.0	100	2.0	4.0	200	MMBD4148WDICT-ND	3.30	22.88	101.20	3,000	88.00/M
	80	50	75	1.0	100	3.5	4.0	200	MMBD4448HWDICT-ND	3.30	22.88	101.20	3,000	88.00/M
	75	2.5	75	1.0	100	4.0	4.0	200	MMBD4448WDICT-ND	3.30	22.88	101.20	3,000	88.00/M
5	75	2.5	75	1.0	50	4.0	4.0	200	MMBD4448DWDICT-ND†	3.13	22.00	100.00	3,000	90.00/M
6	200	15	200	1.0	100	5.0	50	150	BAS21TDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	85	100	85	1.0	10	—	3.0§	150	BAS116TDICT-ND	2.81	19.80	90.00	3,000	81.00/M
7	75	2.5	75	.855	10	2.0	4.0	400	1N4148WDICT-ND	3.00	20.80	92.00	3,000	80.00/M
	75	2.5	75	.855	10	4.0	4.0	350	1N4448WDICT-ND	3.00	20.80	92.00	3,000	80.00/M
	75	1.0	75	1.0	50	2.0	4.0	400	BAV16WDICT-ND	3.00	20.80	92.00	3,000	80.00/M
	100	0.1	150	1.0	100	5.0	50	250	BAV19WDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	150	0.1	150	1.0	100	5.0	50	250	BAV20WDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	130	100	130	1.0	10	5.0	3.0§	250	BAV116WDICT-ND	2.81	19.80	90.00	3,000	81.00/M
	300	100	240	1.0	100	5.0	50	400	BAV3004WDICT-ND *NEW!*	3.60	27.00	144.00	3,000	135.00/M
8	80	5.0	75	.855	10	3.5	4.0	200	1N4448HWSDICT-ND	3.00	20.80	92.00	3,000	80.00/M
	75	1.0	75	.855	10	2.0	4.0	200	1N4148WSDICT-ND	3.00	20.80	92.00	3,000	80.00/M
	75	2.5	75	1.0	100	4.0	4.0	200	1N4448WSDICT-ND	3.00	20.80	92.00	3,000	80.00/M
	75	1.0	75	1.0	50	2.0	4.0	200	BAV16WSDICT-ND	3.00	20.80	92.00	3,000	80.00/M
	100	0.1	100	1.0	100	5.0	50	200	BAV19WSDICT-ND	3.00	21.60	108.00	3,000	102.00/M
	150	0.1	150	1.0	100	5.0	50	200	BAV20WSDICT-ND	3.00	21.60	108.00	3,000	102.00/M
	200	0.1	200	1.0	100	5.0	50	250	BAV21WDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	200	0.1	200	1.0	100	5.0	50	200	BAV21WSDICT-ND	3.00	21.60	108.00	3,000	102.00/M
9	85	2.0	75	1.0	50	1.5	4.0	150	BAV70TDICT-ND	2.63	18.20	80.50	3,000	70.00/M
	85	2.0	75	1.0	50	1.5	4.0	150	BAV99TDICT-ND	3.00	20.80	92.00	3,000	80.00/M
	85	.005	75	1.0	10	—	3.0§	150	BAV170TDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	85	.005	75	1.0	10	—	3.0§	150	BAV199TDICT-ND *NEW!*	3.13	22.00	100.00	3,000	90.00/M
	85	2.0	75	1.0	50	1.5	4.0	150	BAW56TDICT-ND	2.81	19.80	90.00	3,000	81.00/M
	85	.005	75	1.0	10	—	3.0§	150	BAW156TDICT-ND	3.13	22.00	100.00	3,000	90.00/M
	80	0.1	70	1.0	100	3.5	4.0	150	MMBD4448HTADICT-ND	2.63	18.20	80.50	3,000	70.00/M

* For Tape and Reel Part No., change "CT-ND" to "TR-ND"

† Dual Isolated Single

§ Reverse Recovery Time @ µs

Fig. 1 — DO-35

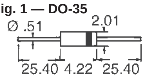


Fig. 2 — MiniMELF

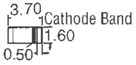
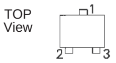


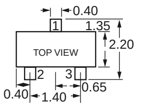
Fig. 3 — SOT-23



	1	2	3
BAL99	A	—	K
BAS16	K	A	—
BAS19	K	A	—
BAS20	K	A	—
BAS21	K	A	—
BAS116	K	A	—
BAV23A	A/A	K	K
BAV23C	K/K	A	A
BAV23S	—	A	K
BAV70	K	A	A
BAV99	K/A	A	K
BAV170	K/K	A	A

	1	2	3
BAV199	K/A	A	K
BAW56	A/A	K	K
BAW156	A/A	K	K
MMBD914	K	A	—
MMBD2004S	K/A	A	K
MMBD3004S	K/A	A	K
MMBD4148	K	A	—
MMBD4448	K	A	—
MMBD4448H	K	A	—
MMBD7000	K/A	A	K

Fig. 4 — SOT-323



	1	2	3
BAS16W	K	A	—
BAS19W	K	A	—
BAS20W	K	A	—
BAS21W	K	A	—
BAV70W	K	A	A
BAV99W	K/A	A	K
BAW56W	A/A	K	K
MMBD4148W	K	A	—
MMBD4448HW	K	A	—
MMBD4448W	K	A	—

Fig. 5 — SOT-363

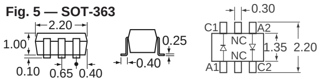


Fig. 6 — SOT-523

	1	2	3
BAS21T	K	A	—
BAS116T	K	A	—

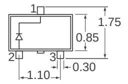


Fig. 7 — SOD-123

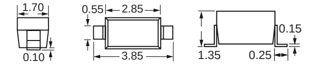


Fig. 8 — SOD-323

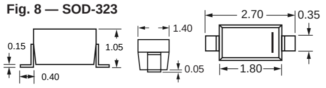
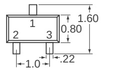


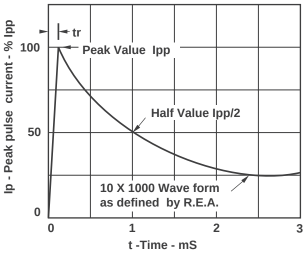
Fig. 9 — SOT-523

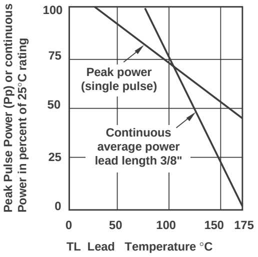


	1	2	3
BAV70T	K/K	A	A
BAV99T	A/K	A	K
BAV170T	K/K	A	A
BAV199T	A/K	A	K
KBAW56T	A/A	K	K
BAW156T	A/A	K	K
MMBD4448HT	A/A	K	K

Transient Voltage Suppressors

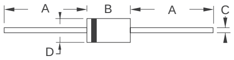
APPLICATIONS: These TVS devices afford the circuit designer an economic means to protect voltage sensitive circuit components from the destructive effects of applied transient voltages. Featuring virtually instantaneous response times of one picosecond. **FEATURES:** • 500, 600 and 1500 Watts Peak Pulse Power Dissipation • Fast Response Time – 1 Picosecond • Uni- and Bi-directional Units Available • Constructed with Glass Passivated Die **MECHANICAL DATA:** • **Case:** Transfer Molded Epoxy U/L Flammability Rating 94V-0 • **Leads:** Solderable per MIL-STD-202 Method 208 • **Soldering Temperature:** 260°C Maximum, 3/8" (9.53mm) From Body, 10 Seconds • **Marking:** Type Number and Cathode Band



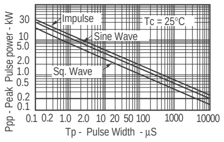


500 Watts and 600 Watts

DO-15 OUTLINE



DO-15 (mm)		
Dim.	**Min.**	**Max.**
A	1.00 (25.40)	—
B	.216 (5.50)	.30 (7.62)
C	.027 (0.686)	.035 (0.889)
D	.102 (2.60)	.142 (3.6)

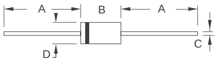


MAXIMUM RATINGS:

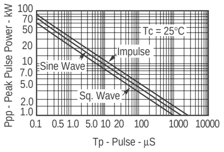
- **Peak Pulse Power Dissipation @ 25°C:** 500 and 600 Watts.
- **Steady State Power Dissipation @ 75°C Lead Temperature, 3/8" (9.53mm) from Body:** 2.5 Watts.
- **Clamping Time (0 Volt to BV min): Uni-directional –** < 1x10^{-12} Seconds. **Bi-directional –** < 5x10^{-9} Seconds.
- **Storage and Operating Temperature:** -65 to +175°C.

1500 Watts

DO-201 Outline



DO-201 (mm)		
Dim.	**Min.**	**Max.**
A	1.00 (25.40)	—
B	.335 (8.50)	.375 (9.53)
C	.037 (0.96)	.041 (1.06)
D	.189 (4.80)	.205 (5.21)



MAXIMUM RATINGS:

- **Peak Pulse Power Dissipation @ 25°C:** 1500 Watts.
- **Steady State Power Dissipation @ 75°C Lead Temperature, 3/8" (9.53mm) from Body:** 5 Watts.
- **Forward Surge Current, 50ms @ 25°C:** 200 Amperes.
- **Clamping Time (0 Volt to BV min): Uni-directional –** < 1x10^{-12} Seconds. **Bi-directional –** < 5x10^{-9} Seconds.
- **Storage and Operating Temperature:** -65 to +175°C.

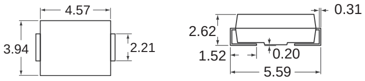
Breakdown Voltage (V(BR) @ I_T) Min.	Nom.	Max.	I_T (mADC)	Rated Standoff Voltage (Vwm)	Reverse DC Leakage (Current @ Vwm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	4,000	Diodes Part No.
500 Watts, Uni-Directional (D0-15)													
6.4	—	7.00	10	5.0	600 µA	SA5V0ADICT-ND	.47	3.72	27.90	SA5V0ADITR-ND	—	140.00/M	SA5V0ADI
6.67	—	7.37	10	6.0	600 µA	SA6V0ADICT-ND	.47	3.72	27.90	SA6V0ADITR-ND	—	140.00/M	SA6V0ADI
7.22	—	7.98	10	6.5	400 µA	SA6V5ADICT-ND	.47	3.72	27.90	SA6V5ADITR-ND	—	140.00/M	SA6.5ADI
11.1	—	12.3	1	10	3 µA	SA10ADICT-ND	.47	3.72	27.90	SA10ADITR-ND	—	140.00/M	SA10ADI
13.3	—	14.7	1	12	3 µA	SA12ADICT-ND	.47	3.72	27.90	SA12ADITR-ND	—	140.00/M	SA12ADI
16.7	—	18.5	1	15	3 µA	SA15ADICT-ND	.47	3.72	27.90	SA15ADITR-ND	—	140.00/M	SA15ADI
22.2	—	24.5	1	20	3 µA	SA20ADICT-ND	.47	3.72	27.90	SA20ADITR-ND	—	140.00/M	SA20ADI
33.3	—	36.8	1	30	3 µA	SA30ADICT-ND	.47	3.72	27.90	SA30ADITR-ND	—	140.00/M	SA30ADI
500 Watts, Bi-Directional (DO-15)													
6.67	—	7.37	10	6.0	600 µA	SA6V0CADICT-ND	.56	4.44	33.30	SA6V0CADITR-ND	—	167.00/M	SA6.0CADI
7.22	—	7.98	10	6.5	400 µA	SA6V5CADICT-ND	.56	4.44	33.30	SA6V5CADITR-ND	—	167.00/M	SA6.5CADI
11.1	—	12.3	1	10	3 µA	SA10CADICT-ND	.56	4.44	33.30	SA10CADITR-ND	—	167.00/M	SA10CADI
13.3	—	14.7	1	12	3 µA	SA12CADICT-ND	.56	4.44	33.30	SA12CADITR-ND	—	167.00/M	SA12CADI
16.7	—	18.5	1	15	3 µA	SA15CADICT-ND	.56	4.44	33.30	SA15CADITR-ND	—	167.00/M	SA15CADI
22.2	—	24.5	1	20	3 µA	SA20CADICT-ND	.56	4.44	33.30	SA20CADITR-ND	—	167.00/M	SA20CADI
33.3	—	36.8	1	30	3 µA	SA30CADICT-ND	.56	4.44	33.30	SA30CADITR-ND	—	167.00/M	SA30CADI
600 Watts, Uni-Directional (DO-15)													
6.45	6.8	7.14	10	5.8	1000 µA	P6KE6.8ADICT-ND	.47	3.72	27.90	P6KE6.8ADITR-ND	—	140.00/M	P6KE6.8A
7.13	7.5	7.88	10	6.4	500 µA	P6KE7.5ADICT-ND	.47	3.72	27.90	P6KE7.5ADITR-ND	—	140.00/M	P6KE7.5A
7.79	8.2	8.61	10	7.02	200 µA	P6KE8.2ADICT-ND	.47	3.72	27.90	P6KE8.2ADITR-ND	—	140.00/M	P6KE8.2A
9.5	10.0	10.5	1	8.55	10 µA	P6KE10ADICT-ND	.47	3.72	27.90	P6KE10ADITR-ND	—	140.00/M	P6KE10A
11.4	12.0	12.6	1	10.2	5 µA	P6KE12ADICT-ND	.47	3.72	27.90	P6KE12ADITR-ND	—	140.00/M	P6KE12A
14.3	15.0	15.8	1	12.8	5 µA	P6KE15ADICT-ND	.47	3.72	27.90	P6KE15ADITR-ND	—	140.00/M	P6KE15A
19.0	20.0	21.0	1	17.1	5 µA	P6KE20ADICT-ND	.47	3.72	27.90	P6KE20ADITR-ND	—	140.00/M	P6KE20A
22.8	24.0	25.2	1	20.5	5 µA	P6KE24ADICT-ND	.47	3.72	27.90	P6KE24ADITR-ND	—	140.00/M	P6KE24A
25.7	27.0	28.4	1	23.1	5 µA	P6KE27ADICT-ND	.47	3.72	27.90	P6KE27ADITR-ND	—	140.00/M	P6KE27A
28.5	30.0	31.5	1	25.5	5 µA	P6KE30ADICT-ND	.47	3.72	27.90	P6KE30ADITR-ND	—	140.00/M	P6KE30A
31.4	33.0	34.7	1	28.2	5 µA	P6KE33ADICT-ND	.47	3.72	27.90	P6KE33ADITR-ND	—	140.00/M	P6KE33A
48.5	51.0	53.6	1	43.6	5 µA	P6KE51ADICT-ND	.47	3.72	27.90	P6KE51ADITR-ND	—	140.00/M	P6KE51A
64.6	68.0	71.4	1	58.1	5 µA	P6KE68ADICT-ND	.47	3.72	27.90	P6KE68ADITR-ND	—	140.00/M	P6KE68A
600 Watts, Bi-Directional (DO-15)													
6.45	6.8	7.14	10	5.8	1000 µA	P6KE6.8CADICT-ND	.56	4.44	33.30	P6KE6.8CADITR-ND	—	167.00/M	P6KE6.8CA
7.13	7.5	7.88	10	6.4	500 µA	P6KE7.5CADICT-ND	.56	4.44	33.30	P6KE7.5CADITR-ND	—	167.00/M	P6KE7.5CA
7.79	8.2	8.61	10	7.02	200 µA	P6KE8.2CADICT-ND	.56	4.44	33.30	P6KE8.2CADITR-ND	—	167.00/M	P6KE8.2CA
9.5	10.0	10.5	1	8.55	10 µA	P6KE10CADICT-ND	.56	4.44	33.30	P6KE10CADITR-ND	—	167.00/M	P6KE10CA
11.4	12.0	12.6	1	10.2	5 µA	P6KE12CADICT-ND	.56	4.44	33.30	P6KE12CADITR-ND	—	167.00/M	P6KE12CA
14.3	15.0	15.8	1	12.8	5 µA	P6KE15CADICT-ND	.56	4.44	33.30	P6KE15CADITR-ND	—	167.00/M	P6KE15CA
19.0	20.0	21.0	1	17.1	5 µA	P6KE20CADICT-ND	.56	4.44	33.30	P6KE20CADITR-ND	—	167.00/M	P6KE20CA
22.8	24.0	25.2	1	20.5	5 µA	P6KE24CADICT-ND	.56	4.44	33.30	P6KE24CADITR-ND	—	167.00/M	P6KE24CA
25.7	27.0	28.4	1	23.1	5 µA	P6KE27CADICT-ND	.56	4.44	33.30	P6KE27CADITR-ND	—	167.00/M	P6KE27CA
28.5	30.0	31.5	1	25.5	5 µA	P6KE30CADICT-ND	.56	4.44	33.30	P6KE30CADITR-ND	—	167.00/M	P6KE30CA
31.4	33.0	34.7	1	28.2	5 µA	P6KE33CADICT-ND	.56	4.44	33.30	P6KE33CADITR-ND	—	167.00/M	P6KE33CA
48.5	51.0	53.6	1	43.6	5 µA	P6KE51CADICT-ND	.56	4.44	33.30	P6KE51CADITR-ND	—	167.00/M	P6KE51CA
64.6	68.0	71.4	1	58.1	5 µA	P6KE68CADICT-ND	.56	4.44	33.30	P6KE68CADITR-ND	—	167.00/M	P6KE68CA
95.0	100.0	105.0	1	85.5	5 µA	P6KE100CADICT-ND	.56	4.44	33.30	P6KE100CADITR-ND	—	167.00/M	P6KE100CA
143.0	150.0	158.0	1	128.0	5 µA	P6KE150CADICT-ND	.56	4.44	33.30	P6KE150CADITR-ND	—	167.00/M	P6KE150CA
1500 Watts, Uni-Directional (D0-201)													
6.45	6.8	7.14	10	5.8	1000 µA	1.5KE6.8ADICT-ND	.69	5.54	41.52	1.5KE6.8ADITR-ND	251.00	—	1.5KE6.8A
7.13	7.5	7.88	10	6.4	500 µA	1.5KE7.5ADICT-ND	.69	5.54	41.52	1.5KE7.5ADITR-ND	251.00	—	1.5KE7.5A
7.79	8.2	8.61	10	7.02	200 µA	1.5KE8.2ADICT-ND	.69	5.54	41.52	1.5KE8.2ADITR-ND	251.00	—	1.5KE8.2A
9.5	10.0	10.5	1	8.55	10 µA	1.5KE10ADICT-ND	.69	5.54	41.52	1.5KE10ADITR-ND	251.00	—	1.5KE10A
11.4	12.0	12.6	1	10.2	5 µA	1.5KE12ADICT-ND	.69	5.54	41.52	1.5KE12ADITR-ND	251.00	—	1.5KE12A
14.3	15.0	15.8	1	12.8	5 µA	1.5KE15ADICT-ND	.69	5.54	41.52	1.5KE15ADITR-ND	251.00	—	1.5KE15A
19.0	20.0	21.0	1	17.1	5 µA	1.5KE20ADICT-ND	.69	5.54	41.52	1.5KE20ADITR-ND	251.00	—	1.5KE20A
22.8	24.0	25.2	1	20.5	5 µA	1.5KE24ADICT-ND	.69	5.54	41.52	1.5KE24ADITR-ND	251.00	—	1.5KE24A
25.7	27.0	28.4	1	23.1	5 µA	1.5KE27ADICT-ND	.69	5.54	41.52	1.5KE27ADITR-ND	251.00	—	1.5KE27A
28.5	30.0	31.5	1	25.5	5 µA	1.5KE30ADICT-ND	.69	5.54	41.52	1.5KE30ADITR-ND	251.00	—	1.5KE30A
31.4	33.0	34.7	1	28.2	5 µA	1.5KE33ADICT-ND	.69	5.54	41.52	1.5KE33ADITR-ND	251.00	—	1.5KE33A
48.5	51.0	53.6	1	43.6	5 µA	1.5KE51ADICT-ND	.69	5.54	41.52	1.5KE51ADITR-ND	251.00	—	1.5KE51A
64.6	68.0	71.4	1	58.1	5 µA	1.5KE68ADICT-ND	.69	5.54	41.52	1.5KE68ADITR-ND	251.00	—	1.5KE68A
1500 Watts, Bi-Directional (DO-201)													
6.45	6.8	7.14	10	5.8	1000 µA	1.5KE6.8CADICT-ND	.74	5.95	44.64	1.5KE6.8CADITR-ND	270.00	—	1.5KE6.8CA
7.13	7.5	7.88	10	6.4	500 µA	1.5KE7.5CADICT-ND	.74	5.95	44.64	1.5KE7.5CADITR-ND	270.00	—	1.5KE7.5CA
7.79	8.2	8.61	10	7.02	200 µA	1.5KE8.2CADICT-ND	.74	5.95	44.64	1.5KE8.2CADITR-ND	270.00	—	1.5KE8.2CA
9.5	10.0	10.5	1	8.55	10 µA	1.5KE10CADICT-ND	.74	5.95	44.64	1.5KE10CADITR-ND	270.00	—	1.5KE10CA
11.4	12.0	12.6	1	10.2	5 µA	1.5KE12CADICT-ND	.74	5.95	44.64	1.5KE12CADITR-ND	270.00	—	1.5KE12CA
14.3	15.0	15.8	1	12.8	5 µA	1.5KE15CADICT-ND	.74	5.95	44.64	1.5KE15CADITR-ND	270.00	—	1.5KE15CA
19.0	20.0	21.0	1	17.1	5 µA	1.5KE20CADICT-ND	.74	5.95	44.64	1.5KE20CADITR-ND	270.00	—	1.5KE20CA
22.8	24.0	25.2	1	20.5	5 µA	1.5KE24CADICT-ND	.74	5.95	44.64	1.5KE24CADITR-ND	270.00	—	1.5KE24CA
25.7	27.0	28.4	1	23.1	5 µA	1.5KE27CADICT-ND	.74	5.95	44.64	1.5KE27CADITR-ND	270.00	—	1.5KE27CA
28.5	30.0	31.5	1	25.5	5 µA	1.5KE30CADICT-ND	.74	5.95	44.64	1.5KE30CADITR-ND	270.00	—	1.5KE30CA
31.4	33.0	34.7	1	28.2	5 µA	1.5KE33CADICT-ND	.74	5.95	44.64	1.5KE33CADITR-ND	270.00	—	1.5KE33CA
48.5	51.0	53.6	1	43.6	5 µA	1.5KE51CADICT-ND	.74	5.95	44.64	1.5KE51CADITR-ND	270.00	—	1.5KE51CA

(Continued)

DIODES INCORPORATED Transient Voltage Suppressors *(Cont.)*

Breakdown Voltage (V(BR) @ I_T) Min.	Nom.	Max.	I_T (mADC)	Rated Standoff Voltage (Vwm)	Reverse DC Leakage (Current @ Vwm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	4,000	Diodes Part No.
64.6	68.0	71.4	1	58.1	5 µA	1.5KE68CADICT-ND	.74	5.95	44.64	1.5KE68CADITR-ND	270.00	—	1.5KE68CA
95.0	100.0	105.0	1	85.5	5 µA	1.5KE100CADICT-ND	.74	5.95	44.64	1.5KE100CADITR-ND	270.00	—	1.5KE100CA
143.0	150.0	158.0	1	128.0	5 µA	1.5KE150CADICT-ND	.74	5.95	44.64	1.5KE150CADITR-ND	270.00	—	1.5KE150CA

SMB Bi-Directional Thyristor Surge Protection Device

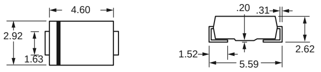


Features: • 58 - 320V Stand-Off Voltages • Oxide-Glass Passivated Junction • Bi-Directional Protection in a Single Device • High Off-State Impedance and Low On-State Voltage **Mechanical Data:** • Case: SMB, Molded Plastic • Plastic Material: UL Flammability • Classification Rating: 94V-0

Non-Repetitive Peak Impulse Current (A) 10/1000µs	Rated Repetitive Off-State Volt. VDRM (V)	Off-State Leakage Current @ VDRM IDRM (µA)	Breakover Voltage VBO (V)	Holding Current IH (mA) Min.	Max.	Off-State Capacitance Co (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Diodes Part No.
30	65	5	88	150	800	100	TB0720LDICT-ND	1.05	.91	.70	TB0720LDITR-ND	372.00/M	TB0720L-13
	120	5	160	150	800	60	TB1300LDICT-ND	1.05	.91	.70	TB1300LDITR-ND	372.00/M	TB1300L-13
	275	5	350	150	800	40	TB3100LDICT-ND	1.05	.91	.70	TB3100LDITR-ND	372.00/M	TB3100L-13
	58	5	77	150	800	100	TB0640LDICT-ND *NEW!*	1.05	.91	.70	TB0640LDITR-ND *NEW!*	372.00/M	TB0640L-13
	75	5	98	150	800	100	TB0900LDICT-ND *NEW!*	1.05	.91	.70	TB0900LDITR-ND *NEW!*	372.00/M	TB0900L-13
	90	5	130	150	800	60	TB1100LDICT-ND *NEW!*	1.05	.91	.70	TB1100LDITR-ND *NEW!*	372.00/M	TB1100L-13
	140	5	180	150	800	60	TB1500LDICT-ND *NEW!*	1.05	.91	.70	TB1500LDITR-ND *NEW!*	372.00/M	TB1500L-13
	160	5	220	150	800	60	TB1800LDICT-ND *NEW!*	1.05	.91	.70	TB1800LDITR-ND *NEW!*	372.00/M	TB1800L-13
	190	5	265	150	800	40	TB2300LDICT-ND *NEW!*	1.05	.91	.70	TB2300LDITR-ND *NEW!*	372.00/M	TB2300L-13
	220	5	300	150	800	40	TB2600LDICT-ND *NEW!*	1.05	.91	.70	TB2600LDITR-ND *NEW!*	372.00/M	TB2600L-13
	320	5	400	150	800	40	TB3500LDICT-ND *NEW!*	1.05	.91	.70	TB3500LDITR-ND *NEW!*	372.00/M	TB3500L-13
50	58	5	77	150	800	140	TB0640MDICT-ND	1.13	.98	.75	TB0640MDITR-ND	399.00/M	TB0640M-13
	75	5	98	150	800	140	TB0900MDICT-ND	1.13	.98	.75	TB0900MDITR-ND	399.00/M	TB0900M-13
	160	5	220	150	800	90	TB1800MDICT-ND	1.13	.98	.75	TB1800MDITR-ND	399.00/M	TB1800M-13
	190	5	265	150	800	60	TB2300MDICT-ND	1.13	.98	.75	TB2300MDITR-ND	399.00/M	TB2300M-13
	220	5	300	150	800	60	TB2600MDICT-ND	1.13	.98	.75	TB2600MDITR-ND	399.00/M	TB2600M-13
	65	5	88	150	800	140	TB0720MDICT-ND *NEW!*	1.13	.98	.75	TB0720MDITR-ND *NEW!*	399.00/M	TB0720M-13
	90	5	130	150	800	90	TB1100MDICT-ND *NEW!*	1.13	.98	.75	TB1100MDITR-ND *NEW!*	399.00/M	TB01100M-13
	120	5	160	150	800	90	TB1300MDICT-ND *NEW!*	1.13	.98	.75	TB1300MDITR-ND *NEW!*	399.00/M	TB1300M-13
	140	5	180	150	800	90	TB1500MDICT-ND *NEW!*	1.13	.98	.75	TB1500MDITR-ND *NEW!*	399.00/M	TB1500M-13
	275	5	350	150	800	60	TB3100MDICT-ND *NEW!*	1.13	.98	.75	TB3100MDITR-ND *NEW!*	399.00/M	TB3100M-13
	320	5	400	150	800	60	TB3500MDICT-ND *NEW!*	1.13	.98	.75	TB3500MDITR-ND *NEW!*	399.00/M	TB3500M-13
100	75	5	98	150	800	200	TB0900HDICT-ND	1.24	1.08	.83	TB0900HDITR-ND	439.00/M	TB0900H-13
	90	5	130	150	800	120	TB1100HDICT-ND	1.24	1.08	.83	TB1100HDITR-ND	439.00/M	TB1100H-13
	160	5	220	150	800	120	TB1800HDICT-ND	1.24	1.08	.83	TB1800HDITR-ND	439.00/M	TB1800H-13
	190	5	265	150	800	80	TB2300HDICT-ND	1.24	1.08	.83	TB2300HDITR-ND	439.00/M	TB2300H-13
	220	5	300	150	800	80	TB2600HDICT-ND	1.24	1.08	.83	TB2600HDITR-ND	439.00/M	TB2600H-13
	275	5	350	150	800	80	TB3100HDICT-ND	1.24	1.08	.83	TB3100HDITR-ND	439.00/M	TB3100H-13
	58	5	77	150	800	200	TB0640HDICT-ND *NEW!*	1.24	1.08	.83	TB0640HDITR-ND *NEW!*	439.00/M	TB0640H-13
	65	5	88	150	800	200	TB0720HDICT-ND *NEW!*	1.24	1.08	.83	TB0720HDITR-ND *NEW!*	439.00/M	TB0720H-13
	140	5	180	150	800	120	TB1500HDICT-ND *NEW!*	1.24	1.08	.83	TB1500HDITR-ND *NEW!*	439.00/M	TB1500H-13
	320	5	400	150	800	80	TB3500HDICT-ND *NEW!*	1.24	1.08	.83	TB3500HDITR-ND *NEW!*	439.00/M	TB3500H-13

SMA 400 Watt Surface Mount TVS Uni-Directional

Features: • 400W Peak Pulse Power Dissipation • 70V Standoff Voltage • 100V maximum clamping voltage, a requirement of many -48V backplane telecom applications • Glass Passivated Die Construction • Fast Response Time: typically less than 1 ps • Plastic Material - UL flammability, classification rating 94V-0

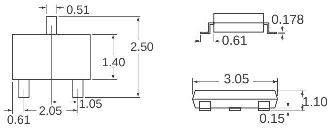


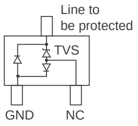
Reverse Standoff Voltage VRWM (V)	Breakdown Voltage VBR @ IT Min (V)	Max (V)	Test Current IT (mA)	Max. Reverse Leakage @ VRWM IR (µA)	Max. Clamping Voltage @ Ipp Vc (V)	Max. Peak Pulse Current Ipp (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
70	77.8	89.5	1.0	5.0	100	3.5	55	SMAT70ADICT-ND	.68	.55	.41	SMAT70ADITR-ND	217.00/M

300 Watt Low Capacitance Uni-Directional TVS

Features:

- 300 Watts Peak Pulse Power (tp=8x20µs)
- Transient Protection for data, signal, and Vcc bus to IEC61000-4-2 level 4 (ESD) and IEC 61000-4-4 (EFT)
- Low Capacitance, typical <2 pF
- Low Leakage Current
- Uni-directional Configuration
- Surface Mount Package Ideally Suited for Automatic Insertion





Reverse Standoff Voltage VRWM (V)	Breakdown Voltage VBR @ IT Min (V)	Max (V)	Test Current IT (mA)	Max. Reverse Leakage @ VRWM IR (µA)	Max. Clamping Voltage @ Ipp Vc (V)	Max. Peak Pulse Current Ipp (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5	6.0	—	1.0	20	11.0	17	1.6	DLP05LCDICT-ND	.50	.40	.30	DLP05LCDITR-ND	150.00/M

Dual Surface Mount TVS

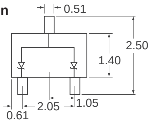
Features:

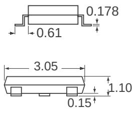
- Dual TVS in Common Anode and Cathode Configuration
- 24W/40W Peak Power Dissipation Rating @ 1.0ms (Uni-directional)
- Ideally Suited for Automatic Insertion
- 225mW Power Dissipation

Mechanical Data:

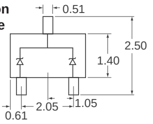
- Case: SOT-23, Molded Plastic
- Case Material - UL Flammability Rating Classification 94V-0
- Terminals: Solderable per MIL-STD-202, Method 208

Common Anode





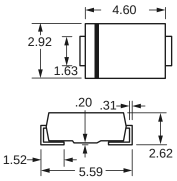
Common Cathode



Peak Power Dissipation	V_{RWM} (V)	I_R @ V_{RWM} µA	Breakdown Voltage V_{BR} (V) Min.	Nom.	Max.	@ I_T mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
							Common Anode					
24W	3	5.0	5.32	5.6	5.88	20	MMBZ5V6ALDICT-ND	.50	.40	.30	MMBZ5V6ALDITR-ND	150.00/M
	4.5	0.5	6.46	6.8	7.14	1.0	MMBZ6V8ALDICT-ND	.50	.40	.30	MMBZ6V8ALDITR-ND	150.00/M
	6.0	0.3	8.65	9.1	9.56	1.0	MMBZ9V1ALDICT-ND	.50	.40	.30	MMBZ9V1ALDITR-ND	150.00/M
	6.5	0.3	9.50	10	10.5	1.0	MMBZ10VALDICT-ND	.50	.40	.30	MMBZ10VALDITR-ND	150.00/M
	12	50	14.25	15	15.75	1.0	MMBZ15VALDICT-ND	.50	.40	.30	MMBZ15VALDITR-ND	150.00/M
40W	14.5	50	17.10	18	18.90	1.0	MMBZ18VALDICT-ND	.50	.40	.30	MMBZ18VALDITR-ND	150.00/M
	17	50	19.00	20	21.00	1.0	MMBZ20VALDICT-ND	.50	.40	.30	MMBZ20VALDITR-ND	150.00/M
	22	50	25.65	27	28.35	1.0	MMBZ27VALDICT-ND	.50	.40	.30	MMBZ27VALDITR-ND	150.00/M
	26	50	31.35	33	34.65	1.0	MMBZ33VALDICT-ND	.50	.40	.30	MMBZ33VALDITR-ND	150.00/M
							Common Cathode					
40W	12.8	0.1	14.3	15	15.8	1.0	MMBZ15VDLDICT-ND	.50	.40	.30	MMBZ15VDLDITR-ND	150.00/M
	22	.05	25.65	27	28.35	1.0	MMBZ27VCLDICT-ND	.50	.40	.30	MMBZ27VCLDITR-ND	150.00/M

DIODES INCORPORATED

SMAJ (J-Bend) 400 Watt Surface Mount TVS



Features:
• 400 Watts peak pulse power dissipation • 5.0V - 36V Standoff voltages • Glass passivated die construction • Uni- and Bi-directional versions available • Excellent clamping capability • Fast response time • Plastic case material has UL flammability classification rating 94V-0

Mechanical Data:
• **Case:** SMA, Transfer molded epoxy • **Terminals:** Solderable per MIL-STD-202, Method 208

UNI-DIRECTIONAL - 400 Watt

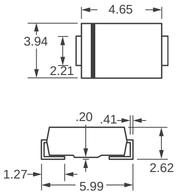
(Value) Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)	*(Value)* Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)
5.0	6.40	7.00	800	22	24.4	26.9	5.0
6.0	6.67	7.37	800	24	26.7	29.5	5.0
6.5	7.22	7.98	500	26	28.9	25.3	5.0
7.0	7.78	8.60	200	28	31.1	34.4	5.0
7.5	8.33	9.21	100	30	33.3	36.8	5.0
8.0	8.89	9.83	50	33	36.7	40.6	5.0
8.5	9.44	10.4	10	36	40.0	44.2	5.0
10	11.1	12.3	5.0	43	47.8	52.8	5.0
11	12.2	13.5	5.0	60	66.7	73.7	5.0
12	13.3	14.7	5.0	70	77.8	86.0	5.0
14	15.6	17.2	5.0	85	94.4	104	5.0
15	16.7	18.5	5.0	100	111	123	5.0
17	18.9	20.9	5.0	110	122	135	5.0
18	20.0	22.1	5.0	120	133	147	5.0
20	22.2	24.5	5.0	150	167	185	5.0

BI-DIRECTIONAL - 400 Watt

(Value) Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)	*(Value)* Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)
5.0	6.40	7.00	800	18	20.0	22.1	5.0
6.0	6.67	7.37	800	20	22.2	24.5	5.0
6.5	7.22	7.98	500	22	24.4	26.9	5.0
7.0	7.78	8.60	200	24	26.7	29.5	5.0
8.0	8.89	9.83	50	26	28.9	25.3	5.0
8.5	9.44	10.4	10	28	31.1	34.4	5.0
10	11.1	12.3	5.0	30	33.3	36.8	5.0
11	12.2	13.5	5.0	33	36.7	40.6	5.0
12	13.3	14.7	5.0	36	40.0	44.2	5.0
13	14.4	15.9	5.0	40	44.4	49.1	5.0
14	15.6	17.2	5.0	43	47.8	52.8	5.0
15	16.7	18.5	5.0	75	83.3	92.1	5.0
16	17.8	19.7	5.0	78	86.7	95.8	5.0
17	18.9	20.9	5.0				

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
Uni-Directional	5.0 - 150	SMAJ(Value)ADICT-ND	.68	.55	.41	SMAJ(Value)ADITR-ND	217.00/M
Bi-Directional	5.0 - 78	SMAJ(Value)CADICT-ND	.76	.61	.46	SMAJ(Value)CADITR-ND	242.00/M

SMBJ (J-Bend) 600 Watt Surface Mount TVS



Features:
• 600 Watts peak pulse power dissipation • 6.5V - 26V standoff voltages • Glass passivated die • Excellent clamping capability • Fast response time • 100% tested at rated peak pulse power

Mechanical Data:
• **Case:** Transfer molded epoxy • **Terminals:** Solderable per MIL-STD-202, Method 208 • **Marking:** Uni-directional — device code number and cathode band; Bi-directional — device code only • **Weight:** 0.1 gram (approx.) • Plastic case material has UL flammability rating 94V-0

UNI-DIRECTIONAL - 600 Watt

(Value) Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)	*(Value)* Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)
5.0	6.40	7.23	800	28	31.10	35.80	5.0
6.0	6.67	7.67	800	30	33.30	38.30	5.0
6.5	7.22	9.14	1000	33	36.70	42.20	5.0
7.0	7.78	8.95	200	36	40.00	46.00	5.0
7.5	8.33	9.58	100	40	44.40	51.10	5.0
8.5	9.44	10.82	10	43	47.80	54.90	5.0
9.0	10.00	11.50	5.0	48	53.30	61.30	5.0
10	11.1	12.8	5.0	54	60.00	69.00	5.0
11	12.20	14.40	5.0	58	64.40	74.60	5.0
12	13.3	15.3	5.0	64	71.10	81.80	5.0
13	14.4	16.5	5.0	70	77.80	89.50	5.0
14	15.60	17.90	5.0	78	86.70	99.70	5.0
15	16.7	19.2	5.0	85	94.40	108.20	5.0
16	17.80	20.50	5.0	100	111.0	128.00	5.0
17	18.9	21.7	5.0	110	122.0	140.00	5.0
18	20.0	24.4	5.0	120	133.0	153.00	5.0
22	24.40	28.00	5.0	130	144.0	165.50	5.0
20	22.2	25.5	5.0	150	167.0	192.50	5.0
24	26.7	30.7	5.0	160	178.0	205.00	5.0
26	28.9	35.3	5.0	170	189.0	217.50	5.0

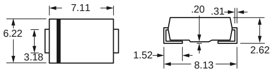
BI-DIRECTIONAL - 600 Watt

(Value) Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)	*(Value)* Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)
5.0	6.40	7.23	800	28	31.10	35.80	5.0
6.0	6.67	7.67	800	30	33.30	38.30	5.0
6.5	7.22	9.14	1000	33	36.70	42.20	5.0
7.0	7.78	8.95	200	36	40.00	46.00	5.0
7.5	8.33	9.58	100	40	44.40	51.10	5.0
8.0	8.89	10.23	50	45	50.00	57.50	5.0
8.5	9.44	10.82	10	51	56.70	65.20	5.0
9.0	10.00	11.50	5.0	54	60.00	69.00	5.0
10	11.1	12.8	5.0	58	64.40	74.60	5.0
11	12.20	14.40	5.0	60	66.70	76.70	5.0
12	13.3	15.3	5.0	64	71.10	81.80	5.0
13	14.4	16.5	5.0	70	77.80	89.50	5.0
14	15.60	17.90	5.0	75	83.30	95.80	5.0
15	16.7	19.2	5.0	78	86.70	99.70	5.0
16	17.80	20.50	5.0	85	94.40	108.20	5.0
17	18.9	21.7	5.0	90	100.0	115.50	5.0
18	20.0	24.4	5.0	100	111.0	128.00	5.0
20	22.2	25.5	5.0	110	122.0	140.00	5.0
22	24.40	28.00	5.0	150	167.0	192.50	5.0
24	26.7	30.7	5.0	160	178.0	205.00	5.0
26	28.9	35.3	5.0	170	189.0	217.50	5.0

Description	Volt. Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Uni-Directional	5.0 - 170	SMBJ(Value)ADICT-ND	.89	.71	.54	SMBJ(Value)ADITR-ND	351.00/M
Bi-Directional	5.0 - 170	SMBJ(Value)CADICT-ND	.96	.76	.58	SMBJ(Value)CADITR-ND	377.00/M

SMCJ (J-Bend) 1500 Watt Surface Mount TVS

Features: • 1500 Watts peak pulse power dissipation • 5.0V - 36V Standoff voltages • Glass passivated die construction • Uni- and Bi-directional versions available • Excellent clamping capability • Fast response time • Plastic case material has UL flammability classification rating 94V-0
Mechanical Data: • **Case:** SMC, Transfer molded epoxy • **Terminals:** Solderable per MIL-STD-202, Method 208



UNI-DIRECTIONAL

(Value) Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)	*(Value)* Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)
5.0	6.40	7.25	1000	30	33.30	38.30	5.0
6.0	6.67	7.67	1000	33	36.70	42.20	5.0
6.5	7.22	8.30	500	36	40.00	46.00	5.0
7.5	8.33	9.58	100	40	44.40	51.10	5.0
8.0	8.89	10.23	50	43	47.80	54.90	5.0
8.5	9.44	10.82	20	45	50.00	57.50	5.0
9.0	10.00	11.50	10	54	60.00	69.00	5.0
10	11.10	12.80	5.0	60	66.70	76.70	5.0
11	12.20	14.40	5.0	64	71.10	81.80	5.0
12	13.30	15.30	5.0	70	77.80	89.50	5.0
13	14.40	16.50	5.0	75	83.30	95.80	5.0
15	16.70	19.20	5.0	78	86.70	99.70	5.0
16	17.80	20.50	5.0	85	94.40	108.20	5.0
17	18.90	21.70	5.0	100	111.00	128.00	5.0
18	20.00	23.30	5.0	110	122.00	140.50	5.0
20	22.20	25.50	5.0	130	144.00	165.50	5.0
22	24.40	28.00	5.0	150	167.00	192.50	5.0
24	26.70	30.70	5.0	160	178.00	205.00	5.0
26	28.90	33.20	5.0	170	189.00	217.50	5.0
28	31.10	35.80	5.0				

BI-DIRECTIONAL

(Value) Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)	*(Value)* Reverse Standoff Voltage Vwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vwm ID (µA)
5.0	6.40	7.25	1000	24	26.70	30.70	5.0
6.0	6.67	7.67	1000	28	31.10	35.80	5.0
6.5	7.22	8.30	500	30	33.30	38.30	5.0
7.5	8.33	9.58	100	33	36.70	42.20	5.0
8.0	8.89	10.23	50	36	40.00	46.00	5.0
8.5	9.44	10.82	20	40	44.40	51.10	5.0
9.0	10.00	11.50	10	43	47.80	54.90	5.0
10	11.10	12.80	5.0	45	50.00	57.50	5.0
11	12.20	14.40	5.0	48	53.30	61.30	5.0
12	13.30	15.30	5.0	51	56.70	65.20	5.0
13	14.40	16.50	5.0	54	60.00	69.00	5.0
14	15.60	17.90	5.0	58	64.40	74.60	5.0
15	16.70	19.20	5.0	70	77.80	89.50	5.0
16	17.80	20.50	5.0	75	83.30	95.80	5.0
17	18.90	21.70	5.0	78	86.70	99.70	5.0
18	20.00	23.30	5.0	85	94.40	108.20	5.0
20	22.20	25.50	5.0	170	189.00	217.50	5.0

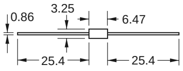
Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
1500 Watt Uni-Directional	5.0 - 170	SMCJ(Value)ADICT-ND	1.25	.99	.76	SMCJ(Value)ADITR-ND	494.00/M
1500 Watt Bi-Directional	5.0 - 170	SMCJ(Value)CADICT-ND	1.39	1.10	.84	SMCJ(Value)CADITR-ND	546.00/M

Littelfuse®

P6KE Series – 600 Watt Axial TVS

Protects sensitive electronics against voltage transients induced by ESD, inductive load switching and lighting. Ideal for protection of I/O interfaces, Vcc bus and other power supply circuits. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

Features: • Glass passivated junction • Excellent clamping capability • Uni-directional and bi-directional • 100% surge tested • UL listed



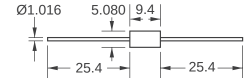
(Value) Nom. Breakdown Voltage	Reverse Standoff Voltage V_R (Volts)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
6.8	5.8	6.45	7.14	1000.0
7.5	6.4	7.13	7.88	500.0
9.1	7.78	8.65	9.55	50.0
10	8.55	9.5	10.5	10.0
12	10.2	11.40	12.6	5.0
13	11.1	12.4	13.7	5.0
15	12.8	14.3	15.8	5.0
16	13.6	15.2	16.8	5.0
18	15.3	17.1	18.9	5.0
20	17.1	19.0	21.0	5.0
24	20.5	22.8	25.2	5.0
27	23.1	25.7	28.4	5.0
30	25.6	28.5	31.5	5.0
33	28.2	31.4	34.7	5.0
68	58.1	64.6	71.4	5.0

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
Unidirectional	6.8 - 68	P6KE(Value)ACCCT-ND	.37	.34	.28	P6KE(Value)ACCTR-ND	139.50/M
Bidirectional	6.8 - 68	P6KE(Value)CACCCT-ND	.44	.40	.33	P6KE(Value)CACCTR-ND	165.00/M

1.5KE Series – 1500 Watt Axial TVS

Features:

- Glass passivated junction • Low clamping factor
- Uni-directional and bi-directional • 100% surge tested
- UL listed

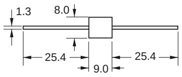


(Value) Nom. Breakdown Voltage	Reverse Standoff Voltage V_R (Volts)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
6.8	5.8	6.45	7.14	1000.0
7.5	6.4	7.13	7.88	500.0
10	8.55	9.5	10.5	10.0
15	12.8	14.3	15.8	5.0
30	25.6	28.5	31.5	5.0

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
Unidirectional	6.8 - 30	1.5KE(Value)ACCCT-ND	.69	.63	.52	1.5KE(Value)ACCTR-ND	259.50/M
Bidirectional	6.8 - 30	1.5KE(Value)CACCCT-ND	.74	.67	.56	1.5KE(Value)CACCTR-ND	279.00/M

5KP Series – 5000 Watt Axial TVS

When no problems exist, TVS diodes are invisible to the circuits they're protecting. But when potentially damaging transients occur, the TVS diodes provide high-speed "clamping" to prevent damage- after which they return to their electronically invisible state. Littelfuse TVS diodes are available in industry-standard packages. **Features:** • Glass passivated junction • Low clamping factor • Uni-directional and bi-directional • 100% surge tested • UL listed

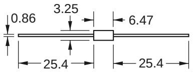


(Value) Nom. Breakdown Voltage	Reverse Standoff Voltage V_R (Volts)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
5.0	5.0	6.40	7.00	5000.0
6.0	6.0	6.67	7.37	5000.0
10	10.0	11.1	12.3	15.0
15	15.0	16.7	18.5	10.0
24	24.0	26.7	29.5	10.0
30	30.0	33.3	36.8	10.0
33	33.0	36.7	40.6	10.0
36	36.0	40.0	44.2	10.0
40	40.0	44.4	49.1	10.0
43	43.0	47.8	52.8	10.0
70	70.0	77.0	86.0	10.0

Description	Tol.	Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000
Unidirectional	5%	5.0 - 70.0	5KP(Value)ACCCT-ND	2.04	1.84	1.53	5KP(Value)ACCTR-ND	765.00
Bidirectional	10%	5.0	5KP5.0CCCCT-ND	2.20	1.98	1.65	5KP5.0CCCTR-ND	825.00
Bidirectional	5%	6.0 - 70.0	5KP(Value)CACCCT-ND	2.37	2.14	1.78	5KP(Value)CACCTR-ND	889.50

SA Series – 500 Watt Axial TVS

Improved 500W TVS diodes that can handle 3.0 watt steady state with improved reverse leakage characteristics. 100% surge tested. Use for applications requiring surge protection of sensitive electronic components. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.



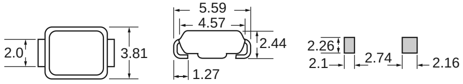
(Value) Nom. Breakdown Voltage	Reverse Standoff Voltage V_R (Volts)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
5.0	5.0	6.40	7.00	600.0
6.0	6.0	6.67	7.37	600.0
12	12.0	13.3	14.7	3.0
15	15.0	16.7	18.5	3.0
16	16.0	17.8	19.7	3.0
33	33.0	36.7	40.6	3.0

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
Unidirectional	5.0 - 33	SA(Value)ACCCT-ND	.38	.35	.29	SA(Value)ACCTR-ND	142.50/M
Bidirectional	6.0 - 33	SA(Value)CACCCT-ND	.41	.37	.31	SA(Value)CACCTR-ND	153.00/M

SMBJ Series – 600 Watt Surface Mount TVS

Features:

- Glass passivated junction • Uni-directional and bi-directional • Jedec package designed to meet SM assembly needs • Low lead inductance
- 100% surge tested



Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
J-Bend Unidirectional	5.0 - 36	SMBJ(Value)ACCCT-ND	.36	.33	.27	SMBJ(Value)ACCTR-ND	135.00/M
J-Bend Bidirectional	5.0 - 36	SMBJ(Value)CACCCT-ND	.40	.36	.30	SMBJ(Value)CACCTR-ND	150.00/M

(Value) Reverse Standoff Voltage V_R (Volts)	Breakdown Volt. V_{BR} (V) @ I_T Min.	Max.	*(Value)* Reverse Standoff Voltage V_R (Volts)	Breakdown Volt. V_{BR} (V) @ I_T Min.	Max.
5.0	6.40	7.25	**15**	16.70	19.20
6.0	6.67	7.67	**18**	20.00	23.30
6.5	7.22	8.30	**20**	22.20	25.50
7.0	7.78	8.95	**22**	24.40	28.00
7.5	8.33	9.58	**24**	26.70	30.70
10	11.10	12.80	**26**	28.90	33.20
12	13.30	15.30	**28**	31.10	35.80
13	14.40	16.50	**30**	33.30	38.30
14	15.60	17.90	**33**	36.70	42.20
			36	40.00	46.00

Thyristors – SiBOD™

Littelfuse Thyristor Suppression Devices (SiBOD™ Avalanche Devices) offer the highest quality and performance for protection of sensitive telecommunications circuitry.

They "crow-bar" potentially dangerous transients – switching them to ground and dissipating the voltage to zero. This approach handles more energy than TVS diode "clamping".

Fig. 1

Modified TO-220

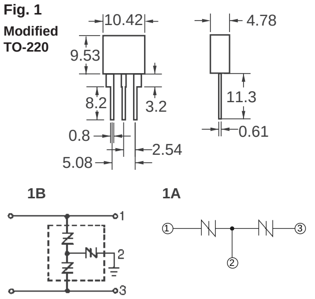


Fig. 2

DO-214

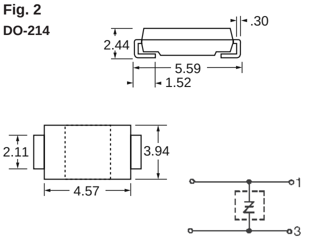


Fig.	Package	Reverse Standoff Voltage (V_R)	Maximum Breakover Voltage (V_{BO})@I_{BO}	Peak Pulse Current (A)	Minimum Holding Current (I_H)	Digi-Key Part No.	Price Each 1	10	100	500	Littelfuse Part No.
1A	TO-220	25	40	100	150	CR0602AA-ND	1.33	1.18	1.07	.89	CR0602AA
		25	40	150	150	CR0602AB-ND	1.47	1.31	1.18	.98	CR0602AB
		25	40	200	150	CR0602AC-ND	1.63	1.45	1.31	1.09	CR0602AC
1A	TO-220	65	95	100	150	CR1602AA-ND	1.33	1.18	1.07	.89	CR1602AA
		65	95	150	150	CR1602AB-ND	1.47	1.31	1.18	.98	CR1602AB
		65	95	200	150	CR1602AC-ND	1.63	1.45	1.31	1.09	CR1602AC
1A	TO-220	140	180	100	150	CR3002AA-ND	1.33	1.18	1.07	.89	CR3002AA
		140	180	150	150	CR3002AB-ND	1.47	1.31	1.18	.98	CR3002AB
		140	180	200	150	CR3002AC-ND	1.63	1.45	1.31	1.09	CR3002AC
1A	TO-220	275	350	100	150	CR6002AA-ND	1.33	1.18	1.07	.89	CR6002AA
		275	350	150	150	CR6002AB-ND	1.47	1.31	1.18	.98	CR6002AB
		275	350	200	150	CR6002AC-ND	1.63	1.45	1.31	1.09	CR6002AC
1B	TO-220	130	180	50	150	CR1553AA-ND	1.76	1.57	1.41	1.18	CR1553AA
		130	180	100	150	CR1553AB-ND	2.03	1.81	1.63	1.36	CR1553AB
		130	180	500	150	CR1553AC-ND	2.35	2.09	1.88	1.57	CR1553AC
1B	TO-220	200	270	50	150	CR2353AA-ND	1.76	1.57	1.41	1.18	CR2353AA
		200	270	100	150	CR2353AB-ND	2.03	1.81	1.63	1.36	CR2353AB
		200	270	500	150	CR2353AC-ND	2.35	2.09	1.88	1.57	CR2353AC
1B	TO-220	270	350	100	150	CR3203AA-ND	1.76	1.57	1.41	1.18	CR3203AA
		270	350	150	150	CR3203AB-ND	2.03	1.81	1.63	1.36	CR3203AB
		270	350	200	150	CR3203AC-ND	2.35	2.09	1.88	1.57	CR3203AC

Fig.	Package	Rev. Standoff Voltage (V_R)	Max. Breakover Volt. (V_{BO})@I_{BO}	Peak Pulse Current (A)	Min. Holding Current (I_H)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T & R Pricing 3,000
2	DO-214	140	180	100	150	CR1500SACT-ND	1.05	.84	.63	.42	CR1500SATR-ND	273.00/M
		140	180	150	150	CR1500SBCT-ND	1.25	1.00	.75	.50	CR1500SBTR-ND	323.70/M
		140	180	200	150	CR1500SCCT-ND	1.33	1.07	.80	.54	CR1500SCTR-ND	345.80/M
2	DO-214	190	260	100	150	CR2300SACT-ND	1.05	.84	.63	.42	CR2300SATR-ND	273.00/M
		190	260	150	150	CR2300SBCT-ND	1.25	1.00	.75	.50	CR2300SBTR-ND	323.70/M
		190	260	200	150	CR2300SCCT-ND	1.33	1.07	.80	.54	CR2300SCTR-ND	345.80/M
2	DO-214	25	40	100	150	CR0300SACT-ND	1.05	.84	.63	.42	CR0300SATR-ND	273.00/M
		25	40	150	150	CR0300SBCT-ND	1.25	1.00	.75	.50	CR0300SBTR-ND	323.70/M
		25	40	200	150	CR0300SCCT-ND	1.33	1.07	.80	.54	CR0300SCTR-ND	345.80/M
2	DO-214	320	400	100	150	CR3500SACT-ND	1.05	.84	.63	.42	CR3500SATR-ND	273.00/M
		320	400	150	150	CR3500SBCT-ND	1.25	1.00	.75	.50	CR3500SBTR-ND	323.70/M
		320	400	200	150	CR3500SCCT-ND	1.33	1.07	.80	.54	CR3500SCTR-ND	345.80/M
2	DO-214	58	77	100	150	CR0640SACT-ND	1.05	.84	.63	.42	CR0640SATR-ND	273.00/M
		58	77	150	150	CR0640SBCT-ND	1.25	1.00	.75	.50	CR0640SBTR-ND	323.70/M
		58	77	200	150	CR0640SCCT-ND	1.33	1.07	.80	.54	CR0640SCTR-ND	345.80/M
2	DO-214	65	88	100	150	CR0720SACT-ND	1.05	.84	.63	.42	CR0720SATR-ND	273.00/M
		65	88	150	150	CR0720SBCT-ND	1.25	1.00	.75	.50	CR0720SBTR-ND	323.70/M
		65	88	200	150	CR0720SCCT-ND	1.33	1.07	.80	.54	CR0720SCTR-ND	345.80/M
2	DO-214	220	300	100	150	CR2600SACT-ND	1.05	.84	.63	.42	CR2600SATR-ND	273.00/M
		220	300	150	150	CR2600SBCT-ND	1.25	1.00	.75	.50	CR2600SBTR-ND	323.70/M
		220	300	200	150	CR2600SCCT-ND	1.33	1.07	.80	.54	CR2600SCTR-ND	345.80/M
2	DO-214	275	350	100	150	CR3100SACT-ND	1.05	.84	.63	.42	CR3100SATR-ND	273.00/M
		275	350	150	150	CR3100SBCT-ND	1.25	1.00	.75	.50	CR3100SBTR-ND	323.70/M
		275	350	200	150	CR3100SCCT-ND	1.33	1.07	.80	.54	CR3100SCTR-ND	345.80/M

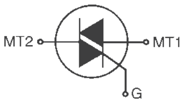
TECCOR ELECTRONICS
An Invensys company

Alternistor Triacs 8 to 40 Amps

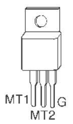
9292B-ND	Teccor Sidactor Data Book	**$2.25**
9291B-ND	Teccor Thyristor Product Catalog	**$3.00**

General Description:

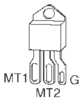
Teccor's Alternistor Triac has been specifically designed for applications which are required to switch highly inductive loads. To accomplish this, a special chip has been designed which effectively offers the same performance as two thyristors (SCRs) wired inverse parallel (back-to-back), hence, the alternistor has better turn-off behavior than a standard triac. All Alternistors have glass passivated junctions to ensure long term reliability and parameter stability.



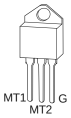
TO-220AB - Isolated



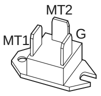
TO-218X



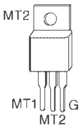
TO-218AC



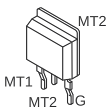
TO-3 Base / FASTPAK



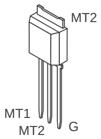
TO-220AB - Non-Isolated



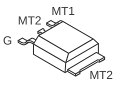
D2-PAK



TO-251 V-PAK



TO-252 D-PAK



Package	I_{T} RMS (A)	V_{DRM} (V)	I_{GT} (mA)	Digi-Key Part No.	Price Each			Tape & Reel†	
					1	10	100	Size	Pricing
Isolated									
TO-220AB	8	400	35	Q4008LH4-ND	1.42	1.26	1.14	—	—
		600		Q6008LH4-ND	1.58	1.40	1.26	—	—
		800		Q8008LH4-ND	1.87	1.66	1.50	—	—
TO-220AB	12	400	50	Q4012LH5-ND	1.64	1.46	1.32	—	—
		600		Q6012LH5-ND	1.82	1.62	1.46	—	—
		800		Q8012LH5-ND	2.16	1.92	1.73	—	—
TO-220AB	15	200	80	Q2015L6-ND‡	1.91	1.70	1.53	—	—
		400		Q4015L6-ND‡	2.09	1.86	1.68	—	—
		800		Q8015L6-ND‡	2.77	2.46	2.22	—	—
TO-220AB	16	400	20	Q4016LH3-ND	2.03	1.80	1.62	—	—
		600		Q6016LH3-ND	2.25	2.00	1.80	—	—
		800		Q8016LH3-ND	2.68	2.38	2.15	—	—
		200	35	Q2016LH4-ND	1.78	1.58	1.43	—	—
		400		Q4016LH4-ND	1.96	1.74	1.57	—	—
		600		Q6016LH4-ND	2.18	1.94	1.75	—	—
		800		Q8016LH4-ND	2.59	2.30	2.07	—	—
		600	80	Q6016LH6-ND	2.05	1.82	1.64	—	—
		800		Q8016LH6-ND	2.43	2.16	1.95	—	—
TO-220AB	25	200	80	Q2025L6-ND	2.50	2.22	2.00	—	—
		400		Q4025L6-ND	2.75	2.44	2.20	—	—
		600		Q6025L6-ND	3.04	2.70	2.43	—	—
		800		Q8025L6-ND	3.60	3.20	2.88	—	—
TO-218AC	25	200	80	Q2025K6-ND	4.86	4.32	3.89	—	—
		800		Q8025K6-ND	7.04	6.26	5.64	—	—
TO-218X	25	400	80	Q4025J6-ND	5.90	5.24	4.72	—	—
		600		Q6025J6-ND	6.55	5.82	5.24	—	—
		800		Q8025J6-ND	7.79	6.92	6.23	—	—
TO-220AB	30	600	50	Q6030LH5-ND *NEW!*	3.38	3.00	2.70	—	—
TO-3	25	600	50	Q6025P5-ND *NEW!*	8.75	7.78	7.01	—	—
	35	600	50	Q6035P5-ND	10.64	9.46	8.52	—	—
TO-218X	40	200	100	Q2040J7-ND	7.16	6.36	5.73	—	—
		400		Q4040J7-ND	7.88	7.00	6.30	—	—
		600		Q6040J7-ND	8.73	7.76	6.99	—	—
		800		Q8040J7-ND	10.37	9.22	8.30	—	—
TO-218AC	40	200	100	Q2040K7-ND	6.48	5.76	5.19	—	—
		400		Q4040K7-ND	7.13	6.34	5.71	—	—
		600		Q6040K7-ND	7.92	7.04	6.34	—	—
		800		Q8040K7-ND	9.41	8.36	7.53	—	—

Package	I_{T} RMS (A)	V_{DRM} (V)	I_{GT} (mA)	Digi-Key Part No.	Price Each			Tape & Reel†	
					1	10	100	Size	Pricing
Non-Isolated									
TO-251 V-PAK	6	600	10	Q6006VH3-ND *NEW!*	1.10	.98	.89	—	—
TO-251 V-PAK	8	400	10	Q4008VH3-ND *NEW!*	1.01	.90	.81	—	—
		800		Q8008VH3-ND *NEW!*	1.35	1.20	1.08	—	—
D2-PAK	8	400	35	Q4008NH4RPCT-ND*	2.54	2.08	1.76	500	552.50
		600		Q6008NH4RPCT-ND*	2.81	2.31	1.95	500	612.00
		800		Q8008NH4RPCT-ND*	3.32	2.72	2.30	500	722.50
TO-252 D-PAK	6	800	10	Q8006DH3RPCT-ND* *NEW!*	1.99	1.64	1.38	2500	1785.00
	8	600		Q6008DH3RPCT-ND* *NEW!*	1.91	1.57	1.33	2500	1715.00
D2-PAK	12	400	50	Q4012NH5RPCT-ND*	2.93	2.40	2.03	500	637.50
		600		Q6012NH5RPCT-ND*	3.24	2.66	2.25	500	705.50
		800		Q8012NH5RPCT-ND*	3.86	3.17	2.68	500	841.50
TO-220AB	15	200	80	Q2015R6-ND‡	1.67	1.48	1.34	—	—
		400	80	Q4015R6-ND‡	2.57	2.28	2.06	—	—
		600	80	Q6015R6-ND‡	2.05	1.82	1.64	—	—
		800	80	Q8015R6-ND‡	2.43	2.16	1.95	—	—
		200	125	Q2015R9-ND	2.18	1.94	1.75	—	—
TO-220AB	16	600	20	Q6016RH3-ND	2.03	1.80	1.62	—	—
		400	35	Q4016RH4-ND	1.76	1.56	1.41	—	—
		200	80	Q2016RH6-ND	1.51	1.34	1.21	—	—
		600		Q6016RH6-ND	1.85	1.64	1.48	—	—
		800		Q8016RH6-ND	2.18	1.94	1.75	—	—
D2-PAK	16	400	20	Q4016NH3RPCT-ND*	3.63	2.98	2.52	500	790.50
		600		Q6016NH3RPCT-ND*	4.02	3.30	2.79	500	875.50
		800		Q8016NH3RPCT-ND*	4.76	3.91	3.30	500	1037.00
		400	35	Q4016NH4RPCT-ND*	3.47	2.85	2.41	500	756.50
		600		Q6016NH4RPCT-ND*	3.86	3.17	2.68	500	841.50
		800		Q8016NH4RPCT-ND*	4.60	3.78	3.19	500	1003.00
		400	80	Q4016NH6RPCT-ND*	3.28	2.69	2.27	500	714.00
		600		Q6016NH6RPCT-ND*	3.67	3.01	2.54	500	799.00
		800		Q8016NH6RPCT-ND*	4.33	3.56	3.00	500	943.50
TO-220AB	25	600	125	Q6025R9-ND	5.31	4.72	4.25	—	—
		200	80	Q2025R6-ND	2.23	1.98	1.79	—	—
		400	80	Q4025R6-ND	2.45	2.18	1.97	—	—
		600	80	Q6025R6-ND	2.72	2.42	2.18	—	—
		800	80	Q8025R6-ND	3.24	2.88	2.60	—	—
D2-PAK	25	400	80	Q4025NH6RPCT-ND*	4.88	4.00	3.38	500	1062.50
		600		Q6025NH6RPCT-ND*	5.38	4.42	3.73	500	1173.00
		800		Q8025NH6RPCT-ND*	6.40	5.25	4.43	500	1394.00
D2-PAK	35	600	50	Q6035NH5RPCT-ND* *NEW!*	6.55	5.38	4.54	500	1428.00

‡ Not recommended for new design * Cut Tape † For Tape and Reel Part Number, change CT-ND to TR-ND

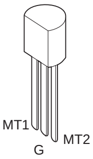
TECCOR
ELECTRONICS
An Invensys company

Logic Triacs (1.0-8.0 Amps) and Gated Triacs (1-25 Amps)

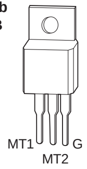
9291B-ND	Teccor Thyristor Product Catalog	**$3.00**
9292B-ND	Teccor Sidactor Data Book	**$2.25**

ISOLATED

Plastic TO-92

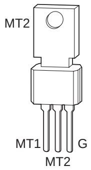


Thermotab TO-220AB

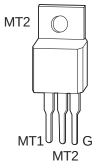


NON-ISOLATED

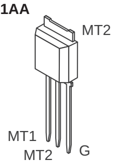
TO-202AB



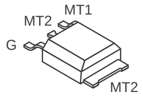
TO-220AB



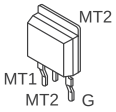
TO-251AA



SMT TO-252AA



D2 PAK



$I_{T\,RMS}$ (A)	V_{DRM} (V)	Package	I_{GT} (mA)	IDRM @25°C (mA)	PG (AV) (W)	t_{gt} (μsec.)	Digi-Key Part No.	Price Each			Tape & Reel †	
								1	10	100	Size	Pricing
Logic Triacs (1.0-8.0 Amps), Isolated												
1.0	200	TO-92	3	.01	0.2	2.5	L201E3-ND	.74	.66	.60	—	—
	400						L401E3-ND	.77	.68	.62	—	—
	600						L601E3-ND	.88	.78	.71	—	—
	200	TO-92	5	.01	0.2	2.5	L201E5-ND	.70	.62	.56	—	—
	400						L401E5-ND	.74	.66	.60	—	—
	600						L601E5-ND	.83	.74	.67	—	—
4.0	200	TO-220AB	3	.01	0.3	2.5	L2004L3-ND	1.31	1.16	1.05	—	—
	400						L4004L3-ND	1.37	1.22	1.10	—	—
	600						L6004L3-ND	1.58	1.40	1.26	—	—
8.0	200	TO-220AB	5	.02	0.4	2.5	L2008L6-ND	1.42	1.26	1.14	—	—
	400			.05			L4008L6-ND	1.49	1.32	1.19	—	—
	600			.02			L6008L6-ND	1.69	1.50	1.35	—	—
Logic Triacs (1.0-8.0 Amps), Non-Isolated												
4.0	200	TO-202AB	3	.02	0.3	2.5	L2004F31-ND	1.04	.92	.83	—	—
	400			.02			L4004F31-ND	1.08	.96	.87	—	—
	600			.01			L6004F31-ND	1.24	1.10	.99	—	—
	200	TO-202AB	5	.02	0.3	2.5	L2004F51-ND	.99	.88	.80	—	—
	400			.02			L4004F51-ND	1.04	.92	.83	—	—
	600			.01			L6004F51-ND	1.19	1.06	.96	—	—
	400	TO-251AA	3	.01	0.3	2.8	L4004V3-ND	.95	.84	.76	—	—
	600						L6004V3-ND	1.08	.96	.87	—	—
	400	TO-251AA	5	.01	0.3	3.0	L4004V5-ND	.90	.80	.72	—	—
	600						L6004V5-ND	1.01	.90	.81	—	—
	400	TO-252AA	3	.01	0.3	2.8	L4004D3CT-ND*	1.68	1.38	1.17	2,500	731.00/M
	600						L6004D3CT-ND*	1.91	1.57	1.33	2,500	833.00/M
	400	TO-252AA	5	.01	0.3	3.0	L4004D5CT-ND*	1.56	1.28	1.08	2,500	680.00/M
	600						L6004D5CT-ND*	1.79	1.48	1.25	2,500	782.00/M
6.0	400	TO-252AA	5	.02	0.4	3.0	L4006D5CT-ND*	1.72	1.41	1.19	2,500	748.00/M
	600						L6006D5CT-ND*	1.99	1.64	1.38	2,500	867.00/M
8.0	400	TO-252AA	5	.02	0.4	3.0	L4008D6CT-ND*	1.79	1.48	1.25	2,500	782.00/M
	600						L6008D6CT-ND*	2.03	1.67	1.41	2,500	884.00/M
Gated Triacs (1.0-15 Amps), Isolated												
1.0	200	TO-92	10	.02	0.2	2.5	Q201E3-ND	.63	.56	.51	—	—
	400						Q401E3-ND	.70	.62	.56	—	—
	600						Q601E3-ND	.83	.74	.67	—	—
4.0	200	TO-220AB	10	.05	0.3	2.5	Q2004L3-ND	1.08	.96	.87	—	—
	400						Q4004L3-ND	1.19	1.06	.96	—	—
	600						Q6004L3-ND	1.42	1.26	1.14	—	—
8.0	200	TO-220AB	25	.05	0.5	3.0	Q2008L4-ND	1.28	1.14	1.03	—	—
	400		25				Q4008L4-ND	1.42	1.26	1.14	—	—
	600		50				Q6008L5-ND	1.58	1.40	1.26	—	—
10.0	200	TO-220AB	50	.05	0.5	3.0	Q2010L5-ND	1.40	1.24	1.12	—	—
	400		50	.05			Q4010L5-ND	1.55	1.38	1.25	—	—
	400		50‡	.05			Q4010L4-ND	1.62	1.44	1.30	—	—
	600		50	.05			Q6010L5-ND	1.82	1.62	1.46	—	—
	600		50‡	.05			Q6010L4-ND	1.94	1.72	1.55	—	—
	800		50‡	.01			Q8010L4-ND	2.23	1.98	1.79	—	—
15.0	200	TO-220AB	50	.05	0.5	4.0	Q2015L5-ND	1.69	1.50	1.35	—	—
	400						Q4015L5-ND	1.85	1.64	1.48	—	—
	600						Q6015L5-ND	2.18	1.94	1.75	—	—
Gated Triacs (1.0-15 Amps), Non-Isolated												
4.0	200	TO-202AB	10	.05	0.3	2.5	Q2004F31-ND	.86	.76	.69	—	—
	400						Q4004F31-ND	.95	.84	.76	—	—
	600						Q6004F31-ND	1.13	1.00	.90	—	—
	400	TO-251AA	10	.05	0.3	2.5	Q4004V3-ND	.86	.76	.69	—	—
	600						Q6004V3-ND	1.01	.90	.81	—	—
	400	TO-252AA	10	.05	0.3	2.5	Q4004D3CT-ND*	1.60	1.32	1.11	2,500	697.00/M
	600						Q6004D3CT-ND*	1.87	1.54	1.30	2,500	816.00/M
6.0	400	D2-PAK	50	.05	0.5	3.0	Q4006N4RPCT-ND*	2.30	1.89	1.60	500	501.50
	600		75				Q6006N5RPCT-ND*	2.57	2.12	1.79	500	561.00
	800		75				Q8006N5RPCT-ND*	3.00	2.47	2.08	500	654.50
8.0	400	TO-220AB	25	.05	0.5	3.0	Q4008R4-ND	1.31	1.16	1.05	—	—
	600		50				Q6008R5-ND	1.46	1.30	1.17	—	—
	200	TO-202AB	25	.05	0.5	3.0	Q2008F41-ND	1.01	.90	.81	—	—
	400	D2-PAK	50	.05	0.5	3.0	Q4008N4RPCT-ND*	2.50	2.05	1.73	500	544.00

***** Cut Tape **†** For Tape and Reel Part Number, change CT-ND to TR-ND ‡ Max.

(Continued)

Logic Triacs (1.0-8.0 Amps) and Gated Triacs (1-15 Amps) *(Cont.)*

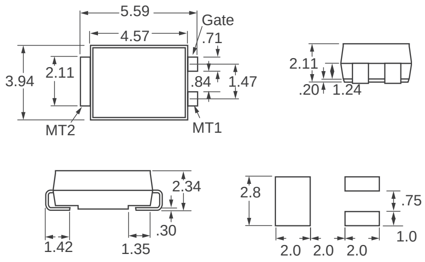
$I_{T RMS}$ (A)	V_{DRM} (V)	Package	I_{GT} (mA)	IDRM @25°C (mA)	PG (AV) (W)	t_{gt} (μsec.)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel † Size	Pricing
8.0	600	D2-PAK	75	.05	0.5	3.0	Q6008N5RPCT-ND*	2.81	2.31	1.95	500	612.00
	800		75				Q8008N5RPCT-ND*	3.24	2.66	2.25	500	705.50
10.0	400	TO-220AB	50	05 .	0.5	3.0	Q4010R5-ND	1.42	1.26	1.14	—	—
	400		50‡				Q4010R4-ND	1.51	1.34	1.21	—	—
	600		50				Q6010R5-ND	1.69	1.50	1.35	—	—
	600		50‡				Q6010R4-ND	1.78	1.58	1.43	—	—
	800		50‡				Q8010R4-ND	2.05	1.82	1.64	—	—
	400	D2-PAK	50‡	.05	0.5	3.0	Q4010N4RPCT-ND*	2.89	2.37	2.00	500	629.00
	400		75	.05			Q4010N5RPCT-ND*	2.73	2.24	1.89	500	595.00
	600		50‡	.05			Q6010N4RPCT-ND*	3.43	2.82	2.38	500	748.00
	600		75	.05			Q6010N5RPCT-ND*	3.24	2.66	2.25	500	705.50
	800		50‡	.1			Q8010N4RPCT-ND*	3.94	3.24	2.73	500	858.50
	800		75	.1			Q8010N5RPCT-ND*	3.74	3.08	2.60	500	816.00
15.0	200	TO-220AB	50	.05	0.5	4.0	Q2015R5-ND	1.55	1.38	1.25	—	—
	400						Q4015R5-ND	1.71	1.52	1.37	—	—
	600						Q6015R5-ND	2.03	1.80	1.62	—	—
	400	D2-PAK	50‡	05	0.5	4.0	Q4015N5RPCT-ND*	3.28	2.69	2.27	500	714.00
	600			.05			Q6015N5RPCT-ND*	3.90	3.20	2.70	500	850.00
	800			.1			Q8015N5RPCT-ND*	4.49	3.68	3.11	500	977.50
25.0	400	D2-PAK	50‡	0.1	0.5	4.0	Q4025N5RPCT-ND*	4.21	3.46	2.92	500	918.00
	600						Q6025N5RPCT-ND*	4.95	4.07	3.43	500	1079.50
	800						Q8025N5RPCT-ND*	5.85	4.80	4.05	500	1275.00

* Cut Tape † For Tape and Reel Part Number, change CT-ND to TR-ND ‡ Max.

Surface Mount Triacs (0.8-1.0 Amps)

$I_{T RMS}$ (A)	V_{DRM} (V)	I_{GT} (mA)	I_{DRM} @25°C (mA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500
Surface Mount Triacs												
0.8	400	10	0.02	1.6	2.0	15.0	Q4X3CT-ND	1.13	.93	.79	Q4X3TR-ND	493.00/M
0.8	600						Q6X3CT-ND	1.37	1.12	.95	Q6X3TR-ND	595.00/M
1.0	400						Q4N3CT-ND	1.37	1.12	.95	Q4N3TR-ND	595.00/M
1.0	600						Q6N3CT-ND	1.60	1.32	1.11	Q6N3TR-ND	697.00/M
Sensitive Gate Surface Mount Triacs												
0.8	400	3	0.01	1.6	2.0	5.0	L4X3CT-ND	1.37	1.12	.95	L4X3TR-ND	595.00/M
	600	3				5.0	L6X3CT-ND	1.32	1.04	.88	L6X3TR-ND	680.00/M
	400	5				10.0	L4X5CT-ND	1.29	1.06	.90	L4X5TR-ND	561.00/M
	600	5				10.0	L6X5CT-ND	1.48	1.22	1.03	L6X5TR-ND	646.00/M

COMPAK



Bilateral Trigger Diacs HT and ST Series

9291B-ND	Teccor Thyristor Product Catalog	**$3.00**
9292B-ND	Teccor Sidactor Data Book	**$2.25**

General Description:

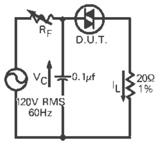
The diac semiconductor is a full-wave or bi-directional thyristor. It is triggered from a blocking-to-conduction state for either polarity of applied voltage whenever the amplitude of applied voltage exceeds the breakover voltage rating of the diac.

The Teccor line of diacs features glass passivated junctions to insure long term device reliability and parameter stability. Teccor's glass offers a rugged, reliable barrier against junction contamination.

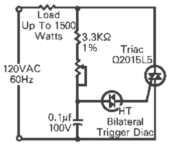
Specifications:

• Maximum Ratings, Absolute-Maximum Values • Maximum Trigger Firing Capacitance – 0.1μF; Device dissipation (at T_A = -40°C to +40°C) – 250mW; Derate Above +40°C – 3.6mW/°C • Temperature Ranges: Storage -40°C to +125°C; Operating (Junction) -40°C to +125°C • Thermal Resistance: Junction to Ambient ($R_{()JA}$) = 278°C/W; Junction to Lead ($R_{()JL}$) = 100°C/W • Based on Maximum lead temperature of 85°C @ = 250mW • I_{TRM}: (A) Max. 2.0, $I_{(BO)}$ μA 25

DO-35



DO-214AA



$V_{(BO)}$ (V) Min.	Max.	$V_{(BO)}$ Symmetry (V) Max.	Dynamic Breakback Voltage (V)	Digi-Key Part No.	Pricing 1	10	100	Tape & Reel † Size	Pricing
HT Series — DO-35									
27	37	3	10	HT-32-ND	.18	1.60	14.40	—	—
35	45	3	10	HT-40-ND	.16	1.40	12.60	—	—
30	40	3	10	HT-35-ND	.16	1.40	12.60	—	—
28	36	4	7	HT-32A-ND	.20	1.80	16.20	—	—
30	34	2	7	HT-32B-ND	.25	2.20	19.80	—	—
32	36	2	10	HT-34B-ND	.25	2.20	19.80	—	—
32	40	4	7	HT-36A-ND	.20	1.80	16.20	—	—
ST Series — DO-214AA									
32	36	2	10	ST-34BCT-ND*	.94	7.68	64.80	2,500	384.00/M
30	40	3	10	ST-35CT-ND*	.59	4.80	40.50	2,500	255.00/M
32	40	2	7	ST-36ACT-ND*	.82	6.72	56.70	2,500	357.00/M
34	38	2	10	ST-36BCT-ND*	.94	7.68	64.80	2,500	408.00/M
35	45	3	10	ST-40CT-ND*	.59	4.80	40.50	2,500	255.00/M

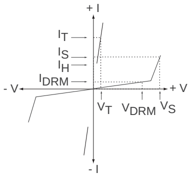
* Cut Tape † For Tape and Reel Part Number, change CT-ND to TR-ND

TECCOR ELECTRONICS An Invensys company SIDACtor® The New Standard In Surge Protection For Electronic Equipment

9291B-ND	Teccor Thyristor Product Catalog	**$3.00**
9292B-ND	Teccor Sidactor Data Book	**$2.25**

Product Description: SIDACtors® are solid state crowbar devices designed to protect telecom equipment during hazardous translent conditions. Capitalizing on the latest in thyristor advancements, Teccor designs their SIDACtors® with a patented ion implant technology. This technology ensures effective protection within nanoseconds, 500A surge current ratings, and simple solutions for regulatory requirements such as Bellcore 1089, TIA/EIA-15-968, ITU-T K.20, ITU-T K.21 and UL60950.

Operation: In the standby mode, SIDACtors® exhibit a high off-state impedance eliminating excessive leakage currents and appearing transparent to the circuits they protect. Upon application of a voltage exceeding the switching voltage (Vs), SIDACtors® will crowbar and simulate a short circuit condition until the current flowing through the device is either interrupted or drops below the SIDACtors® holding current (IH), once this occurs, SIDACtors® will reset and return to their high off-state impedance.



Surge Ratings

Series	I_{pp} 2 x 10µs (A)	I_{pp} 8 x 20µs (A)	I_{pp} 10 x 160µs (A)	I_{pp} 10 x 560µs (A)	I_{pp} 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
A	150	150	90	50	45	20	500
B	250	250	150	100	80	30	500
C	500	400	200	150	100	50	500

Fig. A
TO-92
(Isolated)

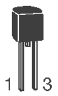


Fig. 1

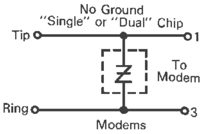


Fig. B
TO-220
No-Ground
(Isolated)

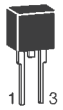


Fig. 2

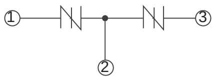


Fig. C
TO-220
(Isolated)

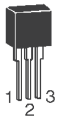


Fig. 3

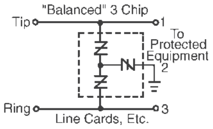


Fig. D
DO-214AA
(Isolated)

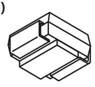


Fig. 4

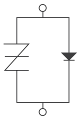


Fig. E
DO-214AA
(Isolated)

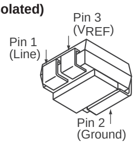


Fig. 5

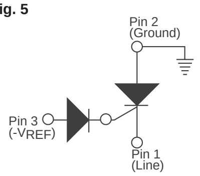


Fig.	Package	V_{DRM} ‡ (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
A,1	TO-92	25	40	4	800	50	P0300EA-ND	.72	.64	.58	.48	.42
		58	77			150	P0640EA-ND	.72	.64	.58	.48	.42
		58	77			150	P0640EC-ND	.92	.82	.74	.62	.54
		65	88			150	P0720EA-ND	.72	.64	.58	.48	.42
		75	98			150	P0900EA-ND	.72	.64	.58	.48	.42
		90	130			150	P1100EA-ND	.72	.64	.58	.48	.42
		120	160			150	P1300EA-ND	.72	.64	.58	.48	.42
		140	180			150	P1500EA-ND	.72	.64	.58	.48	.42
		170	220			150	P1800EC-ND	.92	.82	.74	.62	.54
		220	300			150	P2600EA-ND	.72	.64	.58	.48	.42
		220	300			150	P2600EB-ND	.81	.72	.65	.54	.47
		220	300			150	P2600EC-ND	.92	.82	.74	.62	.54
		275	350			150	P3100EA-ND	.72	.64	.58	.48	.42
		275	350			150	P3100EB-ND	.81	.72	.65	.54	.47
		275	350			150	P3100EC-ND	.92	.82	.74	.62	.54
		320	400			150	P3500EB-ND	.81	.72	.65	.54	.47
		320	400			150	P3500EC-ND	.92	.82	.74	.62	.54
B,1	Modified TO-220	220	260	4	800	150	P2400AA61-ND	1.60	1.42	1.28	1.07	.93
		270	330				P3000AA61-ND	1.60	1.42	1.28	1.07	.93
C,2	Modified TO-220	25	40	4	800	50	P0602AA-ND*	2.12	1.88	1.70	1.41	1.23
		65	95			150	P1602AB-ND*	2.66	2.36	2.13	1.77	1.54
		90	130			150	P2202AB-ND*	2.66	2.36	2.13	1.77	1.54
		140	180			150	P3002AB-ND*	2.66	2.36	2.13	1.77	1.54
		275	350			150	P6002AB-ND*	2.66	2.36	2.13	1.77	1.54
C,3	Modified TO-220	130	180	8	800	150	P1553AB-ND†	3.47	3.08	2.78	2.31	2.01
		170	250				P2103AB-ND†	3.47	3.08	2.78	2.31	2.01
		200	270				P2353AB-ND†	3.47	3.08	2.78	2.31	2.01
		230	300				P2703AB-ND†	3.47	3.08	2.78	2.31	2.01
		270	350				P3203AB-ND†	3.47	3.08	2.78	2.31	2.01
		300	400				P3403AB-ND†	3.47	3.08	2.78	2.31	2.01

* Between pin 1-2, 2-3 † Between any 2 pins ‡ VDRM between pin 1-3 = 2 X VDRM 1-2

Fig.	Package	V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,500
D,1	DO-214	25	40	5	800	150	P0300SARPCT-ND	1.90	1.52	1.14	P0300SARPTR-ND	494.00/M
		58	77				P0640SARPCT-ND	1.90	1.52	1.14	P0640SARPTR-ND	494.00/M
		58	77				P0640SCRPCT-ND	2.25	1.80	1.35	P0640SCRPTR-ND	585.00/M
		65	88				P0720SARPCT-ND	1.90	1.52	1.14	P0720SARPTR-ND	494.00/M
		140	180				P1500SARPCT-ND	1.90	1.52	1.14	P1500SARPTR-ND	494.00/M
		170	220				P1800SCRPCT-ND	2.25	1.80	1.35	P1800SCRPTR-ND	585.00/M
		220	300				P2600SARPCT-ND	1.90	1.52	1.14	P2600SARPTR-ND	494.00/M
		220	300				P2600SBRPCT-ND	2.05	1.64	1.23	P2600SBRPTR-ND	533.00/M
		220	300				P2600SCRPCT-ND	2.25	1.80	1.35	P2600SCRPTR-ND	585.00/M
		275	350				P3100SARPCT-ND	1.90	1.52	1.14	P3100SARPTR-ND	494.00/M
		275	350				P3100SBRPCT-ND	2.05	1.64	1.23	P3100SBRPTR-ND	533.00/M
		275	350				P3100SCRPCT-ND	2.25	1.80	1.35	P3100SCRPTR-ND	585.00/M
		320	400				P3500SBRPCT-ND	2.75	2.20	1.65	P3500SBRPTR-ND	715.00/M
		320	400				P3500SCRPCT-ND	2.25	1.80	1.35	P3500SCRPTR-ND	585.00/M

Subscriber Line Interface Circuit Protection (SLIC)

The Battrax® device is a solid state protection device that can be referenced to either a positive or negative voltage source. The B1100C_ is for a –VREF. Designed using an SCR and an integrated diode, the B1100C_ Battrax® device begins to conduct at |-VREF|+|-1.2V|.

The P0641S_ is a unidirectional solid state protection devices constructed with a SIDACtor® device and an integrated diode. Used to protect SLIC IC's from being damaged during transient voltage activity. They help line cards meet various regulatory requirements including: GR1089, ITU K.20, K.21 and K.45, IEC 60950 and TIA/EIA-15-968.

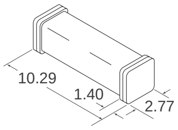
Surge Ratings

Digi-Key Part No.	Series	I_{pp} 2 x 10µs (A)	I_{pp} 8 x 20µs (A)	I_{pp} 10 x 160µs (A)	I_{pp} 10 x 560µs (A)	I_{pp} 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
B1100C_	A	150	150	90	50	45	40	500
	C	500	400	200	150	100	50	500
P0641S_	A	200	150	100	60	50	20	500
	C	500	400	200	120	100	50	500

Fig.	Package	VDRM (V)	VS (V)	VT (V)	VF (V)	IDRM (mA)	IGT (mA)	IS (mA)	IT (A)	IH (mA)	CO (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T&R Pricing 2,500
SLIC Battrax Protection																		
E,5	Modified DO-214	|-VREF|+|-1.2V|	|-VREF|+|-10V|	4	5	5	100	—	1	100	50	B1100CARPCT-ND	2.45	1.96	1.47	.98	B1100CARPTR-ND	637.00/M
												B1100CCRPCT-ND	4.20	3.36	2.52	1.68	B1100CCRPTR-ND	1092.00/M
SLIC Protection																		
D,4	DO-214	58	77	4	5	5	—	800	1	120	70	P0641SARPCT-ND	1.95	1.56	1.17	.78	P0641SARPTR-ND	507.00/M
												P0641SCRPCT-ND	2.45	1.96	1.47	.98	P0641SCRPTR-ND	637.00/M

TECCOR TeleLink® SMD Fuse

The TeleLink® Surface Mount surge resistant time lag fuse has been designed to offer the ultimate in circuit protection while meeting the necessary surge requirements of the telecommunications industry. When used in conjunction with the SIDACtor® they provide a complete regulatory compliant solution for standards such as GR 1089, TIA/EIA-15-968, UL60950, and ITU K.20 & K.21. **Specifications:** Interrupting Values • Voltage Rating: 250V • Current Rating: 1.25A **Surge Ratings:** • 100A, 10 x 1000µs and 500A, 2 x 10µs • Designed specifically for telecommunications equipment



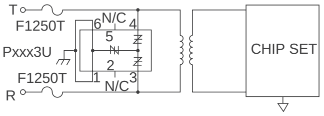
Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 2,500
F1250TRPCT-ND	2.30	1.84	1.38	F1250TRPTR-ND	598.00/M

TECCOR ELECTRONICS
An Invensys company

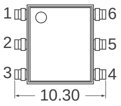
Preliminary Balanced Line Protector

General Description:

Teccor's new Balanced Protector is designed to offer Teccor customers a surface mount alternative to our traditional modified TO-220 package. Based on a 6-pin SOIC package, Teccor's Balanced Protector is built using Teccor's patented "Y" (US Patent 4,905,119) configuration and is available in surge current ratings of up to 500A.



Series	I_{pp} 2 x 10µs (A)	I_{pp} 8 x 20µs (A)	I_{pp} 10 x 160µs (A)	I_{pp} 10 x 560µs (A)	I_{pp} 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
C	500	400	200	150	100	50	500



V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,500
130	180	10	800	120	P1553UCRPCT-ND	4.92	4.48	4.03	P1553UCRPTR-ND	2327.00/M
150	210	10	800	120	P1803UCRPCT-ND	4.92	4.48	4.03	P1803UCRPTR-ND	2327.00/M
170	250	10	800	120	P2103UCRPCT-ND	4.92	4.48	4.03	P2103UCRPTR-ND	2327.00/M
200	270	10	800	120	P2353UCRPCT-ND	4.92	4.48	4.03	P2353UCRPTR-ND	2327.00/M
230	300	10	800	120	P2703UCRPCT-ND	4.92	4.48	4.03	P2703UCRPTR-ND	2327.00/M
270	350	10	800	120	P3203UCRPCT-ND	4.92	4.48	4.03	P3203UCRPTR-ND	2327.00/M
300	400	10	800	120	P3403UCRPCT-ND	4.92	4.48	4.03	P3403UCRPTR-ND	2327.00/M
420	600	10	800	120	P5103UCRPCT-ND	4.92	4.48	4.03	P5103UCRPTR-ND	2327.00/M

Sidac

General Description:

The Sidac is a silicon bilateral voltage triggered switch with greater power-handling capabilities than standard diacs. Upon application of a voltage exceeding the Sidac breakover voltage point, the Sidac switches on through a negative resistance region to a low on-state voltage. Conduction will continue until the current is interrupted or drops below the minimum holding current of the device.

Applications:

• High voltage lamp ignitors • Natural gas ignitors • Gas oil ignitors • High voltage power supplies • Xenon ignitors • Over voltage protector • Pulse generators • Fluorescent lighting ignitors • HID lighting ignitors

Features:

• AC circuit oriented • Glass passivated junctions • High surge current capability

General Notes:

• All measurements are made at 60Hz with a resistive load at an ambient temperature of +25°C unless otherwise specified • Storage temperature range (TS) is -65°C to +150°C • Junction temperature range (TJ) is -40°C to +110°C • Lead solder temperature is a maximum of +230°C for 10 seconds maximum; ≥ 1/16" (1.59mm) from case.

Fig. 1

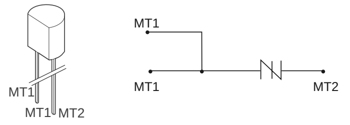
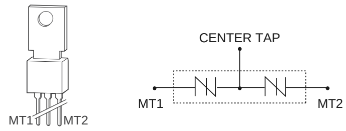
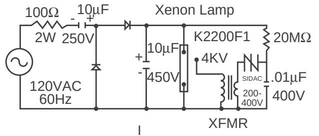


Fig. 2



9291B-ND Teccor Thyristor Product Catalog. **$3.00**
9292B-ND Teccor Sidactor Data Book **$2.25**

Example Circuit



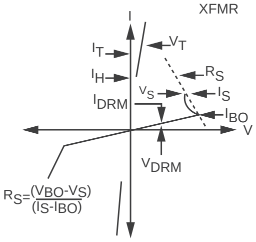
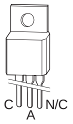


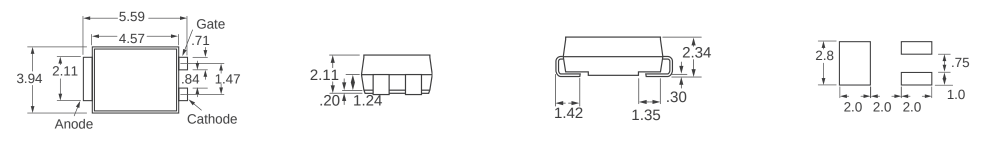
Fig.	Package	$I_{T(RMS)}$ (A)	V_{DRM} (V)	V_{BO} Min.	Max.	I_{DRM} (µA)	I_{BO} (µA)	Digi-Key Part No.	Price Each 1	10	100	250	500	1,000
1	TO-92	1.0	±90	95	113	5	10	K1050E70-ND	.54	.48	.44	.36	.32	.30
			±90	104	118	5	10	K1100E70-ND	.54	.48	.44	.36	.32	.30
			±90	110	125	5	10	K1200E70-ND	.54	.48	.44	.36	.32	.30
			±90	120	138	5	10	K1300E70-ND	.54	.48	.44	.36	.32	.30
			±90	130	146	5	10	K1400E70-ND	.59	.52	.47	.39	.34	.33
			±90	140	170	5	10	K1500E70-ND	.59	.52	.47	.39	.34	.33
			±180	190	215	5	10	K2000E70-ND	.68	.60	.54	.45	.39	.38
			±180	205	230	5	10	K2200E70-ND	.68	.60	.54	.45	.39	.38
			±190	220	250	5	10	K2400E70-ND	.72	.64	.58	.48	.42	.40
			±190	240	280	5	10	K2500E70-ND	.72	.64	.58	.48	.42	.40
2	TO-202AB (Non-Isolated)	1.0	±180	190	215	5	10	K2000F1-ND	.95	.84	.76	.63	.55	.53
			±180	205	230	5	10	K2200F1-ND	.95	.84	.76	.63	.55	.53
			±190	220	250	5	10	K2400F1-ND	.99	.88	.80	.66	.58	.55
			±190	240	280	5	10	K2500F1-ND	.99	.88	.80	.66	.58	.55
			±190	270	330	5	10	K3000F1-ND	1.10	.98	.89	.74	.64	.62

Silicon Rectifiers with Glass Passivated



Package	$I_{T\ RMS}$ (A)	V_{RRM} (V)	I_{FSM} (A)	V_{FM} (V)	Digi-Key Part No.	Price Each 1	10	100	250	500	1,000
TO-220AB (Isolated)	20	400	300	1.6	D4020L-ND	1.51	1.34	1.21	1.01	.88	.84
	20	600	300	1.6	D6020L-ND	1.58	1.40	1.26	1.05	.91	.88
	25	400	350	1.6	D4025L-ND	1.80	1.60	1.44	1.20	1.04	1.00
	25	600	350	1.6	D6025L-ND	1.89	1.68	1.52	1.26	1.10	1.05

Sensitive Gate Surface Mount SCRs



$I_{T\ RMS}$ (A)	V_{DRM} V_{RRM} (V)	Package	I_{GT} (µA)	I_{DRM} I_{RRM} @25°C (µA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape & Reel Pricing 2,500
0.8	200	COMPAK	200	2.0	1.7	0.8	5.0	S2SCT-ND	.90	.74	.63	.53	S2STR-ND	391.00/M
	400							S4SCT-ND	.98	.80	.68	.58	S4STR-ND	425.00/M
	600							S6SCT-ND	1.21	1.00	.84	.72	S6STR-ND	527.00/M
	200	COMPAK	50	2.0	1.7	0.8	5.0	S2S2CT-ND	1.01	.84	.71	.60	S2S2TR-ND	442.00/M
	400							S4S2CT-ND	1.09	.90	.76	.65	S4S2TR-ND	476.00/M
	600							S6S2CT-ND	1.37	1.12	.95	.81	S6S2TR-ND	595.00/M

TECCOR
® ELECTRONICS
An Invensys company

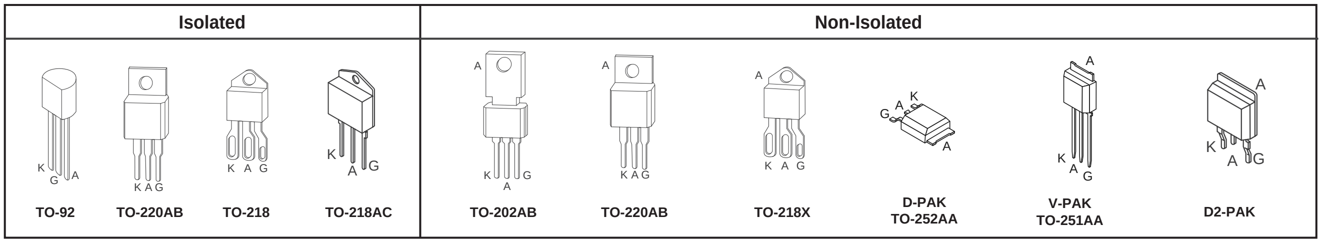
Sensitive Gate (0.8-10 Amps) and Non-Sensitive Gate (1-70 Amps) SCRs

The Teccor Electronics line of thyristor SCR semi-conductors are half-wave, unidirectional, gate-controlled rectifiers. Teccor offers both Sensitive Gate and Non-Sensitive Gate SCR's in a choice of 3 different electrically isolated packages and 5 non-isolated packages. Electrically Isolated Packages: The electrically isolated packages isolate the case or tab internally to allow the use of low cost assembly and convenient packaging techniques. Teccor offers electrical isolation in the TO-92, TO-220AB, and TO-218 type packages. Glass Passivation: The Teccor line of SCR's features glass passivated device junctions to ensure long term device reliability and parameter stability. Teccor's glass offers a rugged, reliable barrier against junction contamination.

Sensitive Gate Type: The Teccor line of sensitive SCR semiconductors complement Teccor's line of power SCRs. **Features:** • Current Ratings: 0.8-10 Amps • Voltage Ratings: 30-600 Volts • Gate Sensitivities: 12-500 microamps • Surge Current: up to 100 Amps

Non-Sensitive Gate Type: The Teccor Electronics line of thyristor SCR semiconductors complement Teccor's line of sensitive gate SCRs. **Features:** • Current Ratings: 1-70 Amps • Voltage Ratings: 100-800 Volts • Gate Sensitivities: 10-50 milliamps • Surge Current: up to 950 Amps

9291B-ND	Teccor Thyristor Product Catalog	**$3.00**
9292B-ND	Teccor Sidactor Data Book	**$2.25**



I_T RMS (A)	V_{DRM} & V_{RRM} (V)	Package	I_{GT} (mA) Min.	I_{GT} (mA) Max.	I_{DRM} & I_{RRM} @25°C (mA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	$P_{G(AV)}$ (W)	t_{gt} (µsec.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel† Size	Tape & Reel† Pricing
SCRs - Sensitive Gate (0.8-10.0 Amp) — Isolated															
.8	30	TO-92	—	.200	.001‡	1.7	0.8	0.1	2.2	2N5060-ND	.59	.52	.47	—	—
	200				.001					EC103B-ND	.36	.32	.29	—	—
	200				.001‡					2N5064-ND	.43	.38	.35	—	—
	400				.001					EC103D-ND	.41	.36	.33	—	—
	600				.002					EC103M-ND	.50	.44	.40	—	—
1.5	50	TO-92	—	.200	.001	1.5	0.8	0.1	2.2	TCR22-2-ND	.47	.42	.38	—	—
	100				.001					TCR22-3-ND	.47	.42	.38	—	—
	200				.001					TCR22-4-ND	.45	.40	.36	—	—
	400				.001					TCR22-6-ND	.47	.42	.38	—	—
	600				.002					TCR22-8-ND	.59	.52	.47	—	—
3.0	400	TO-220AB	—	.200	.002	1.6	0.8	0.1	2.2	S4003LS2-ND	.99	.88	.80	—	—
6.0	400	TO-220AB	—	.200	.005	1.6	0.8	0.1	2.2	S4008LS2-ND	1.19	1.06	.96	—	—
10.0	400	TO-220AB	—	.200	.005	1.6	0.8	0.1	2.2	S4010LS2-ND	1.31	1.16	1.05	—	—
SCRs - Sensitive Gate (0.8-10.0 Amp) — Non-Isolated															
4.0	100	TO-202AB	—	.200	.002	2.2	0.8	0.1	2.2	T106A1-ND	.61	.54	.49	—	—
	200									T106B1-ND	.59	.52	.47	—	—
	400									T106D1-ND	.63	.56	.51	—	—
	600									T106M1-ND	.77	.68	.62	—	—
	200	TO-251AA	—	.200	.002	2.2	0.8	0.1	4.0	S2004VS2-ND	.61	.54	.49	—	—
	400									S4004VS2-ND	.68	.60	.54	—	—
	600									S6004VS2-ND	.81	.72	.65	—	—
	200	TO-252AA	—	.200	.002	2.2	0.8	0.1	4.0	S2004DS2CT-ND*	1.13	.93	.79	2,500	493.00/M
	400									S4004DS2CT-ND*	1.25	1.03	.87	2,500	544.00/M
	600									S6004DS2CT-ND*	1.52	1.25	1.06	2,500	663.00/M
6.0	200	TO-251AA	—	.200	.005	1.6	0.8	0.1	4.0	S2006VS2-ND	.63	.56	.51	—	—
	400									S4006VS2-ND	.70	.62	.56	—	—
	600									S6006VS2-ND	.86	.76	.69	—	—
	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2006DS2CT-ND*	1.17	.96	.81	2,500	510.00/M
	400									S4006DS2CT-ND*	1.29	1.06	.90	2,500	561.00/M
	600									S6006DS2CT-ND*	1.60	1.32	1.11	2,500	697.00/M
	400	TO-202AB	—	.200	.005	1.6	0.8	0.1	2.2	S4008FS21-ND	.92	.82	.74	—	—
8.0	200	TO-251AA	—	.200	.005	1.6	0.8	0.1	4.0	S2008VS2-ND	.70	.62	.56	—	—
	400									S4008VS2-ND	.77	.68	.62	—	—
	600									S6008VS2-ND	.95	.84	.76	—	—
	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2008DS2CT-ND*	1.29	1.06	.90	2,500	561.00/M
	400									S4008DS2CT-ND*	1.40	1.16	.98	2,500	612.00/M
	600									S6008DS2CT-ND*	1.76	1.44	1.22	2,500	765.00/M
10.0	400	TO-202AB	—	.200	.005	1.6	0.8	0.1	2.2	S4010FS21-ND	1.01	.90	.81	—	—
SCRs - Non-Sensitive Gate (1.0-70 Amp) — Isolated															
1.0	100	TO-92	1	10	.01	1.6	1.5	0.3	2.0	S101E-ND	.54	.48	.44	—	—
	200									S201E-ND	.54	.48	.44	—	—
	400									S401E-ND	.59	.52	.47	—	—
	600									S601E-ND	.63	.56	.51	—	—
6.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2006L-ND	.97	.86	.78	—	—
	400									S4006L-ND	1.04	.92	.83	—	—
	600									S6006L-ND	1.10	.98	.89	—	—
	800									S8006L-ND	1.15	1.02	.92	—	—
8.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008L-ND	1.08	.96	.87	—	—
	400									S4008L-ND	1.15	1.02	.92	—	—
	600									S6008L-ND	1.24	1.10	.99	—	—
	800									S8008L-ND	1.31	1.16	1.05	—	—
10.0	400	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S4010L-ND	1.26	1.12	1.01	—	—
	600				.01					S6010L-ND	1.35	1.20	1.08	—	—
	800				.02					S8010L-ND	1.44	1.28	1.16	—	—
15.0	400	TO-220AB	1	30	.01	1.6	1.5	0.6	2.0	S4015L-ND	1.35	1.20	1.08	—	—
	600				.01					S6015L-ND	1.44	1.28	1.16	—	—
	800				.02					S8015L-ND	1.53	1.36	1.23	—	—
20.0	400	TO-220AB	1	30	.01	1.6	1.5	0.5	2.0	S4020L-ND	1.55	1.38	1.25	—	—
	600				.01			0.5		S6020L-ND	1.64	1.46	1.32	—	—
	800				.02			0.6		S8020L-ND	1.73	1.54	1.39	—	—
25.0	400	TO-220AB	1	35	.01	1.6	1.5	0.8	2.0	S4025L-ND	1.82	1.62	1.46	—	—
	600				.01					S6025L-ND	1.94	1.72	1.55	—	—
	800				.02					S8025L-ND	2.05	1.82	1.64	—	—
35.0	600	TO-218AC	5	40	.01	1.8	1.5	0.8	2.0	S6035K-ND	4.21	3.74	3.37	—	—
	800				.02					S8035K-ND	4.46	3.96	3.57	—	—
65.0	400	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S4065J-ND	6.48	5.76	5.19	—	—
	600									S6065J-ND	6.91	6.14	5.53	—	—
	800	TO-218AC	5	50	.02	1.8	2.0	1.0	2.5	S8065K-ND	7.18	6.38	5.75	—	—

‡ .05mA@125°C   * Cut Tape   † For Tape and Reel Part Number, change CT-ND to TR-ND

(Continued)

Sensitive Gate (0.8-10 Amps) and Non-Sensitive Gate (1-70 Amps) SCRs *(Cont.)*

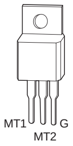
I_T RMS (A)	V_{DRM} & V_{RRM} (V)	Package	I_{GT} (mA)		I_{DRM} & I_{RRM} @25°C (mA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	$P_{G(AV)}$ (W)	t_{gt} (µsec.)	Digi-Key Part No.	Price Each			Tape & Reel†	
			Min.	Max.							1	10	100	Size	Pricing
SCRs - Non-Sensitive Gate (1.0-70 Amp) — Non-Isolated															
6.0	200	TO-251AA	1	15	.01	1.6	1.5	0.5	2.0	S2006V-ND	.65	.58	.53	—	—
	400									S4006V-ND	.70	.62	.56	—	—
	600									S6006V-ND	.74	.66	.60	—	—
	800									S8006V-ND	.79	.70	.63	—	—
	200	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2006DCT-ND*	1.25	1.03	.87	2,500	544.00/M
	400									S4006DCT-ND*	1.33	1.09	.92	2,500	578.00/M
	600									S6006DCT-ND*	1.44	1.19	1.00	2,500	629.00/M
	800									S8006DCT-ND*	1.52	1.25	1.06	2,500	663.00/M
8.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008R-ND	.97	.86	.78	—	—
	400									S4008R-ND	1.04	.92	.83	—	—
	600									S6008R-ND	1.10	.98	.89	—	—
	800									S8008R-ND	1.17	1.04	.94	—	—
	200	TO-251AA	1	15	.01	1.6	1.5	0.5	2.0	S2008V-ND	.74	.66	.60	—	—
	400									S4008V-ND	.79	.70	.63	—	—
	600									S6008V-ND	.83	.74	.67	—	—
	800									S8008V-ND	.88	.78	.71	—	—
	200	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2008DCT-ND*	1.40	1.16	.98	2,500	612.00/M
	400									S4008DCT-ND*	1.52	1.25	1.06	2,500	663.00/M
	600									S6008DCT-ND*	1.60	1.32	1.11	2,500	697.00/M
	800									S8008DCT-ND*	1.72	1.41	1.19	2,500	748.00/M
10.0	800	TO-220AB	1	15	.02	1.6	1.5	0.5	2.0	S8010R-ND	1.31	1.16	1.05	—	—
	200	TO-251AA	1	15	.01	1.6	1.5	0.5	2.0	S2010V-ND	.81	.72	.65	—	—
	400									S4010V-ND	.86	.76	.69	—	—
	600									S6010V-ND	.92	.82	.74	—	—
	800									S8010V-ND	.97	.86	.78	—	—
	200	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2010DCT-ND*	1.56	1.28	1.08	2,500	680.00/M
	400									S4010DCT-ND*	1.64	1.35	1.14	2,500	714.00/M
	600									S6010DCT-ND*	1.76	1.44	1.22	2,500	765.00/M
	800									S8010DCT-ND*	1.87	1.54	1.30	2,500	816.00/M
12.0	400	TO-220AB	1	20	.01	1.6	1.5	0.5	2.0	S4012R-ND	1.19	1.06	.96	—	—
	600				.01					S6012R-ND	1.26	1.12	1.01	—	—
	800				.02					S8012R-ND	1.35	1.20	1.08	—	—
	200	TO-251AA	1	20	.01	1.6	1.5	0.5	2.0	S2012V-ND	.83	.74	.67	—	—
	400									S4012V-ND	.90	.80	.72	—	—
	600									S6012V-ND	.95	.84	.76	—	—
	800									S8012V-ND	1.01	.90	.81	—	—
	200	TO-252AA	1	20	.01	1.6	1.5	0.5	2.0	S2012DCT-ND*	1.60	1.32	1.11	2,500	697.00/M
	400									S4012DCT-ND*	1.72	1.41	1.19	2,500	748.00/M
	600									S6012DCT-ND*	1.83	1.51	1.27	2,500	799.00/M
	800									S8012DCT-ND*	1.95	1.60	1.35	2,500	850.00/M
16.0	400	TO-220AB	1	30	.01	1.6	1.5	0.6	2.0	S4016R-ND	1.26	1.12	1.01	—	—
	600									S6016R-ND	1.35	1.20	1.08	—	—
	400	D2-PAK	1	30	.01	1.6	1.5	0.6	2.0	S4016NRPCT-ND*	2.50	2.05	1.73	500	544.00
	600				.01					S6016NRPCT-ND*	2.65	2.18	1.84	500	578.00
	800				.02					S8016NRPCT-ND*	2.81	2.31	1.95	500	612.00
25.0	600	D2-PAK	1	35	.01	1.6	1.5	0.8	2.0	S6025NRPCT-ND*	3.43	2.82	2.38	500	748.00
	800				.02					S8025NRPCT-ND*	3.63	2.98	2.52	500	790.50
40.0	600	TO-220AB	5	40	.01	1.8	1.5	0.8	2.5	S6040R-ND	2.95	2.62	2.36	—	—
	800				.02					S8040R-ND	3.13	2.78	2.51	—	—
	1000				.03					SK040R-ND	3.31	2.94	2.65	—	—
	600	D2-PAK	5	40	.01	1.8	1.5	0.8	2.5	S6040NRPCT-ND*	5.77	4.74	4.00	500	1258.00
	800				.02					S8040NRPCT-ND*	6.12	5.03	4.24	500	1334.50
	1000				.03					SK040NRPCT-ND*	6.47	5.32	4.49	500	1411.00
55.0	400	TO-218X	5	40	.01	1.8	1.5	0.8	2.5	S4055W-ND	4.37	3.88	3.50	—	—
	600									S6055W-ND	4.66	4.14	3.73	—	—
	600	TO-220AB	5	40	.01	1.8	1.5	0.8	2.5	S6055R-ND	3.11	2.76	2.49	—	—
	800				.02					S8055R-ND	3.29	2.92	2.63	—	—
	600	D2-PAK	5	40	.01	1.8	1.5	0.8	2.5	S6055NRPCT-ND*	6.08	5.00	4.22	500	1326.00
	800				.02					S8055NRPCT-ND*	6.44	5.28	4.46	500	1402.50
70.0	400	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S4070W-ND	6.03	5.36	4.83	—	—
	600									S6070W-ND	6.41	5.70	5.13	—	—

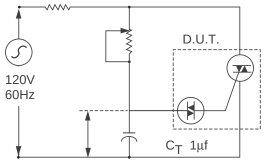
* Cut Tape † For Tape and Reel Part Number, change CT-ND to TR-ND

QUADRAC® Internally Triggered Triacs (4.0-15 Amps)

9291B-ND	Teccor Thyristor Product Catalog	**$3.00**
9292B-ND	Teccor Sidactor Data Book	**$2.25**

Thermotab TO-220AB (Isolated)





General Description:
Teccor's QUADRAC® is a triac that includes a diac trigger mounted inside the same package. This device developed by Teccor, saves the user the expense and assembly time of buying a discrete diac and assembling in conjunction with a gated triac.
The QUADRAC® is a bidirectional AC switch and is gate controlled for either polarity of main terminal voltage. Its primary purpose is for AC switching and phase control applications such as speed controls, temperature modulation controls, and lighting controls.

Features:

- Glass passivated junctions
- Electrically isolated package
- Internal trigger diac
- High surge capability - up to 150 Amps
- High voltage capability - 200 up to 600 volts
- IDRM @25°C: .05mA
- VTM @25°C: 1.6V
- Capacitance: 0.1µF
- tgt: 3µsec.

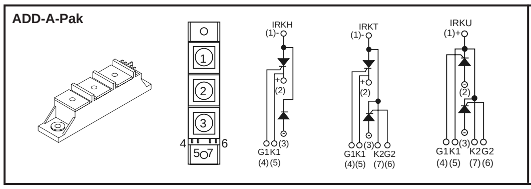
Electrical Isolation:
Teccor's isolated TO-220 Quadrac package will withstand a minimum high potential test of 2500VAC (RMS) from leads to case over the operating temperature range of the device.

Electrical Isolation From Leads to Case:
U.L. Recognized File No. 71639

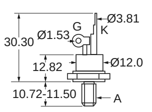
I_T RMS (A)	V_{DRM} (V)	I_{GTM} (A)	VBO (V)		I_{BO} (µA)	I_H (mA)	Digi-Key Part No.	Price Each		
			Min.	Max.				1	10	100
4.0	200	1.2	30	45	200	40	Q2004LT-ND	1.19	1.06	.96
	400						Q4004LT-ND	1.33	1.18	1.07
	600						Q6004LT-ND	1.55	1.38	1.25
6.0	600	1.5	33	43	25	50	Q6006LTH-ND	1.80	1.60	1.44
8.0	400	1.5	30	45	200	60	Q4008LT-ND	1.60	1.42	1.28
	600		30	45	200		Q6008LT-ND	1.89	1.68	1.52
	600		33	43	25		Q6008LTH-ND	1.96	1.74	1.57
10.0	600	1.5	33	43	25	60	Q6010LTH-ND	2.12	1.88	1.70
15.0	400	1.5	30	45	200	70	Q4015LT-ND	1.98	1.76	1.59
	600		30	45	200		Q6015LT-ND	2.34	2.08	1.88
	600		33	43	25		Q6015LTH-ND	2.41	2.14	1.93

International IOR Rectifier SCRs

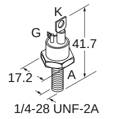
ADD-A-Pak



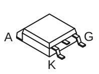
TO-208AA



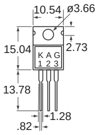
TO-65



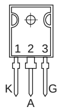
D²Pak



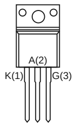
TO-220AC



TO-247AC

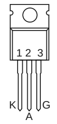


TO-220 FULLPak

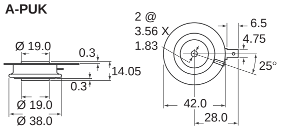


V_{DRM} & Volts Min.	I_T (av) Amps Max.@85°C	Package	V_{GT} Volts Max.	I_{GT} mA Max.	V_{TM} Comp.(a) Volts Max.	DV/DT V/us Max.	Digi-Key Part No.	Price Each 1	10	100
800	95	ADD-A-Pak	2.5	150	1.58	500	IRKU91/08A-ND	42.80	34.24	29.96
1200	95		2.5	150	1.58	500	IRKH91/12A-ND	58.03	46.43	37.15
1200	95		2.5	150	1.58	500	IRKT91/12A-ND	59.75	47.81	38.25
1200	95		2.5	150	1.58	500	IRKU91/12A-ND	42.85	34.28	30.86
1600	95		2.5	150	1.58	500	IRKT92/16A-ND	34.38	29.61	26.91
25	16	TO-208AA	2.0	40	2	100	2N681-ND	10.75	8.60	6.45
1000	16		2.0	60	1.75	300	16RIA100-ND	17.93	14.34	9.54
600	50	TO-65	2.5	100	1.6	500	50RIA60-ND	17.56	14.05	9.34
1200	50		2.5	100	1.6	500	50RIA120-ND	28.63	22.90	15.23
800	6.5	D²Pak	1.0	15	1.15	150	10TTS08S-ND	1.37	.72	.65
800	6.5		1.0	15	1.15	150	12TTS08S-ND	2.39	1.68	1.27
800	10		2.0	60	1.4	500	16TTS08S-ND	3.05	2.44	1.95
800	10		2.0	60	1.4	500	16TTS08-ND	1.79	1.44	1.15
1200	10		3.0	90	1.4	500	16TTS12S-ND	2.54	2.04	1.53
800	16		2.0	45	1.25	500	25TTS08S-ND	3.31	2.65	2.12
800	16		2.0	45	1.25	500	25TTS08-ND	1.89	1.52	1.37
1200	16		2.0	45	1.25	500	25TTS12S-ND	2.97	2.38	1.79
800	6.5	TO-220AC	1.0	15	1.15	150	10TTS08-ND	1.37	.72	.65
800	8		1.0	15	1.2	150	12TTS08-ND	2.39	1.68	1.27
800	20	TO-247AC	2.0	45	1.3	500	30TPS08-ND	2.00	1.61	1.21
1200	20		2.0	45	1.3	500	30TPS12-ND	2.25	1.80	1.35
800	35		2.5	150	1.85	1000	40TPS08-ND	4.00	3.20	2.30
800	35		2.5	150	1.85	1000	40TPS08A-ND	4.48	3.20	2.60
1200	35		2.5	150	1.85	1000	40TPS12-ND	4.87	3.90	2.47
1200	35		2.5	150	1.85	1000	40TPS12A-ND	5.50	3.80	3.20
800	10	TO-220 FULLPak	3.0	90	1.4	500	16TTS08FP-ND	2.34	1.88	1.41
800	16		2.0	45	1.25	500	25TTS08FP-ND	2.74	1.90	1.51
1200	16		2.0	45	1.25	500	25TTS12FP-ND	3.13	2.51	1.88
1200	10	TO-220AB	2.0	60	1.4	500	16TTS12-ND	1.83	1.47	1.33
1200	16		2.0	45	1.25	500	25TTS12-ND	1.98	1.59	1.35
800	350	A-PUK	3.0	150	1.96	500	ST180C08C0-ND	75.73	60.58	37.87
800	410		3.0	150	1.69	500	ST230C08C0-ND	79.70	63.76	39.85
2000	1650	K-PUK	3.0	200	1.73	500	ST1200C20K0-ND	397.50	318.00	198.76
100	16	TO-48	2.0	40	2	100+	2N683-ND	10.55	8.44	5.61
200	16		2.0	60	1.75	100	16RIA20-ND	12.40	9.92	6.60
200	16		2.0	40	2	100+	2N685-ND	11.10	8.88	5.91
800	180	TO-93	2.5	150	1.35	500	180RKI80-ND	83.10	66.48	42.22
600	280		3.0	150	1.28	500	ST280S06P0V-ND	103.50	82.80	51.76
2000	200		3.0	150	1.75	500	ST180S20P0-ND	146.32	109.74	91.45
1200	25	PACE-Pak	2.0	60	1.35	200	P105W-ND *NEW!*	37.54	29.47	25.53
1200	40		2.0	60	1.4	200	P405W-ND	42.22	33.15	28.71

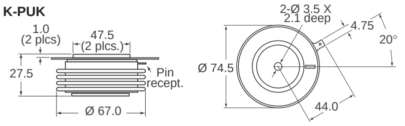
TO-220AB



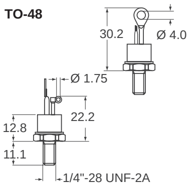
A-PUK



K-PUK



TO-48



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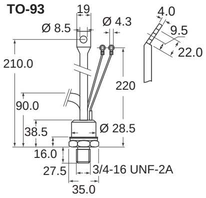
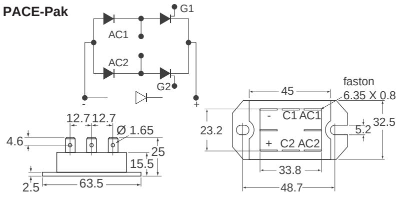


PACE-Pak



•M•C•C• Micro Commercial Components

SMB Transient Voltage Protection Devices

TSMBJ is a semiconductor device characterized of having four layers of alternating conductivity: PNPN. Because it's of a silicon origin, TSMBJ does not degrade per use. These devices are needed for protection of sensitive circuits from electrical disturbances caused by lightning and AC power cross conditions. Primary applications are in the telecommunication and data communication circuits.

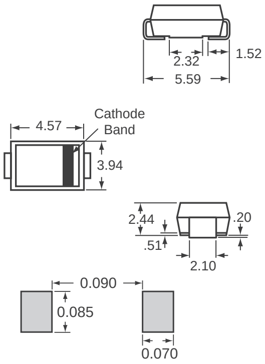
Features: • Oxide-Glass passivated Junction • Bi-Directional protection in a single device • High Off-State impedance Low On-State voltage • Plastic material has UL flammability classification 94V-0

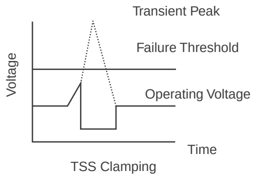
Specifications: • Off-State Leakage Current @ V_{DRM}: 5 I_{DRM}

Rated Repetitive Off-State Voltage V_{DRM}	Breakover Voltage V_{BO}	I_{pp} @ 10/1000us (A)	On-State Voltage @ I_T = 1.0A V_T	Breakover Current I_{BO-} mA Min.	Breakover Current I_{BO+} mA Max.	Holding Current I_{H-} mA Min.	Holding Current I_{H+} mA Max.	Off-State Cap. C_J pF Typ.	Digi-Key Part No.	Cut Tape Price Each 10	100	1,000	Tape & Reel Pricing† 3,000
58	77	50	5	50	800	150	800	100	TSMBJ0305C064MSCT-ND	.90	.72	.54	1080.00
65	88	50	5	50	800	150	800	100	TSMBJ0305C072MSCT-ND	.90	.72	.54	1080.00
75	98	50	5	50	800	150	800	100	TSMBJ0306CMSCT-ND	.90	.72	.54	1080.00
90	130	50	5	50	800	150	800	60	TSMBJ0307CMSCT-ND	.90	.72	.54	1080.00
120	160	50	5	50	800	150	800	60	TSMBJ0309C130MSCT-ND	.90	.72	.54	1080.00
140	180	50	5	50	800	150	800	60	TSMBJ0310CMSCT-ND	.90	.72	.54	1080.00
160	220	50	5	50	800	150	800	60	TSMBJ0312CMSCT-ND	.90	.72	.54	1080.00
190	265	50	5	50	800	150	800	40	TSMBJ0316CMSCT-ND	.90	.72	.54	1080.00
220	300	50	5	50	800	150	800	40	TSMBJ0318CMSCT-ND	.90	.72	.54	1080.00
275	350	50	5	50	800	150	800	40	TSMBJ0322CMSCT-ND	.90	.72	.54	1080.00
320	400	50	5	50	800	150	800	40	TSMBJ0324CMSCT-ND	.90	.72	.54	1080.00
58	77	80	5	50	800	150	800	140	TSMBJ0505C064MSCT-ND	.90	.72	.54	1080.00
65	88	80	5	50	800	150	800	140	TSMBJ0505C072MSCT-ND	.90	.72	.54	1080.00
75	98	80	5	50	800	150	800	140	TSMBJ0506CMSCT-ND	.90	.72	.54	1080.00
90	130	80	5	50	800	150	800	90	TSMBJ0507CMSCT-ND	.90	.72	.54	1080.00
120	160	80	5	50	800	150	800	90	TSMBJ0509C130MSCT-ND	.90	.72	.54	1080.00
140	180	80	5	50	800	150	800	90	TSMBJ0510CMSCT-ND	.90	.72	.54	1080.00
160	220	80	5	50	800	150	800	90	TSMBJ0512CMSCT-ND	.90	.72	.54	1080.00
190	265	80	5	50	800	150	800	60	TSMBJ0516CMSCT-ND	.90	.72	.54	1080.00
220	300	80	5	50	800	150	800	60	TSMBJ0518CMSCT-ND	.90	.72	.54	1080.00
275	350	80	5	50	800	150	800	60	TSMBJ0522CMSCT-ND	.90	.72	.54	1080.00
320	400	80	5	50	800	150	800	60	TSMBJ0524CMSCT-ND	.90	.72	.54	1080.00
58	77	100	5	50	800	150	800	200	TSMBJ1005C064MSCT-ND	1.75	1.40	1.05	2100.00
65	88	100	5	50	800	150	800	200	TSMBJ1005C072MSCT-ND	1.75	1.40	1.05	2100.00
75	98	100	5	50	800	150	800	200	TSMBJ1006CMSCT-ND	1.75	1.40	1.05	2100.00
90	130	100	5	50	800	150	800	120	TSMBJ1007CMSCT-ND	1.75	1.40	1.05	2100.00
120	160	100	5	50	800	150	800	120	TSMBJ1009C130MSCT-ND	1.75	1.40	1.05	2100.00
140	180	100	5	50	800	150	800	120	TSMBJ1010CMSCT-ND	1.75	1.40	1.05	2100.00
160	220	100	5	50	800	150	800	120	TSMBJ1012CMSCT-ND	1.75	1.40	1.05	2100.00
220	300	100	5	50	800	150	800	80	TSMBJ1018CMSCT-ND	1.75	1.40	1.05	2100.00
275	350	100	5	50	800	150	800	80	TSMBJ1022CMSCT-ND	1.75	1.40	1.05	2100.00
320	400	100	5	50	800	150	800	80	TSMBJ1024CMSCT-ND	1.75	1.40	1.05	2100.00

†For Tape and Reel Part Number, change CT-ND to TR-ND.

DO-214AA

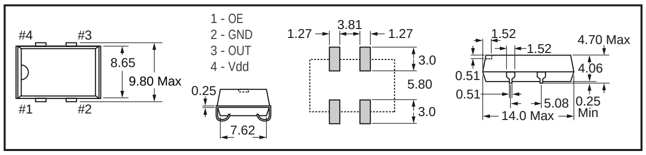




CITIZEN™ Oscillators

CMX309FLC Series Oscillators

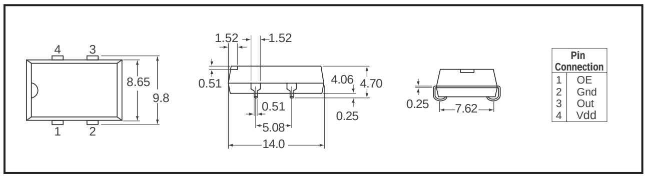
SPECIFICATIONS: • **Frequency Stability:** ±100ppm (-20°C to +70°C) • **Operating Temperature Range:** -20°C to +70°C • **Storage Temperature Range:** -55° C to +125°C • **Supply Voltage:** VDD: 5.0V ±0.5V • **Supply Current:** 23mA Max. • **Duty:** TTL Level (1.4V): 45% to 55% • CMOS Level (VDD/2): 40% to 60% • **Output Voltage:** VOH: VDD - 0.4V Min.; VOL: 0.4V Max. • **Output Load:** TTL: 10TTL Max.; CMOS: 50pF Max. • **Rise & Fall Time:** TTL: tr,tf : 8nsec Max.; CMOS: tr,tf : 8nsec Max. • **Start-up Time:** 4msec Max. • **Input (OE) Voltage:** VIH: 2.0V Min.; VIL: 0.8V Max. • **Disable Current:** 12mA Max. • **Aging (first year):** ±5ppm/year Max.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
		1	10	50			
1.544	300-7001-1-ND	3.00	2.80	1.80	300-7001-2-ND	1328.00	CMX309FLC1.544MT
1.8432	300-7002-1-ND	3.00	2.80	1.80	300-7002-2-ND	1328.00	CMX309FLC1.8432MT
2.000	300-7003-1-ND	3.00	2.80	1.80	300-7003-2-ND	1328.00	CMX309FLC2.000MT
2.048	300-7004-1-ND	3.00	2.80	1.80	300-7004-2-ND	1328.00	CMX309FLC2.048MT
2.4576	300-7005-1-ND	3.00	2.80	1.80	300-7005-2-ND	1328.00	CMX309FLC2.4576MT
3.072	300-7006-1-ND	3.00	2.80	1.80	300-7006-2-ND	1328.00	CMX309FLC3.072MT
3.579545	300-7007-1-ND	3.00	2.80	1.80	300-7007-2-ND	1328.00	CMX309FLC3.579545MT
3.6864	300-7008-1-ND	3.00	2.80	1.80	300-7008-2-ND	1328.00	CMX309FLC3.6864MT
4.000	300-7009-1-ND	3.00	2.80	1.80	300-7009-2-ND	1328.00	CMX309FLC4.000MT
4.096	300-7010-1-ND	3.00	2.80	1.80	300-7010-2-ND	1328.00	CMX309FLC4.096MT
4.9152	300-7011-1-ND	3.00	2.80	1.80	300-7011-2-ND	1328.00	CMX309FLC4.9152MT
5.000	300-7012-1-ND	3.00	2.80	1.80	300-7012-2-ND	1328.00	CMX309FLC5.000MT
6.000	300-7013-1-ND	3.00	2.80	1.80	300-7013-2-ND	1328.00	CMX309FLC6.000MT
6.144	300-7014-1-ND	3.00	2.80	1.80	300-7014-2-ND	1328.00	CMX309FLC6.144MT
7.3728	300-7015-1-ND	3.00	2.80	1.80	300-7015-2-ND	1328.00	CMX309FLC7.3728MT
8.000	300-7016-1-ND	3.00	2.80	1.80	300-7016-2-ND	1328.00	CMX309FLC8.000MT
8.192	300-7017-1-ND	3.00	2.80	1.80	300-7017-2-ND	1328.00	CMX309FLC8.192MT
9.8304	300-7018-1-ND	3.00	2.80	1.80	300-7018-2-ND	1328.00	CMX309FLC9.8304MT
10.000	300-7019-1-ND	3.00	2.80	1.80	300-7019-2-ND	1328.00	CMX309FLC10.000MT
11.000	300-7021-1-ND	3.00	2.80	1.80	300-7021-2-ND	1328.00	CMX309FLC11.000MT
11.0592	300-7022-1-ND	3.00	2.80	1.80	300-7022-2-ND	1328.00	CMX309FLC11.0592MT
11.2896	300-7023-1-ND	3.00	2.80	1.80	300-7023-2-ND	1328.00	CMX309FLC11.2896MT
12.000	300-7024-1-ND	3.00	2.80	1.80	300-7024-2-ND	1328.00	CMX309FLC12.000MT
12.288	300-7025-1-ND	3.00	2.80	1.80	300-7025-2-ND	1328.00	CMX309FLC12.288MT
12.352	300-7026-1-ND	3.00	2.80	1.80	300-7026-2-ND	1328.00	CMX309FLC12.352MT
13.500	300-7027-1-ND	3.00	2.80	1.80	300-7027-2-ND	1328.00	CMX309FLC13.500MT
14.31818	300-7028-1-ND	3.00	2.80	1.80	300-7028-2-ND	1328.00	CMX309FLC14.31818MT
14.7456	300-7029-1-ND	3.00	2.80	1.80	300-7029-2-ND	1328.00	CMX309FLC14.7456MT
15.360	300-7031-1-ND	3.00	2.80	1.80	300-7031-2-ND	1328.00	CMX309FLC15.360MT
16.000	300-7032-1-ND	3.00	2.80	1.80	300-7032-2-ND	1328.00	CMX309FLC16.000MT
16.384	300-7034-1-ND	3.00	2.80	1.80	300-7034-2-ND	1328.00	CMX309FLC16.384MT
16.6666	300-7035-1-ND	3.00	2.80	1.80	300-7035-2-ND	1328.00	CMX309FLC16.6666MT
17.734475	300-7036-1-ND	3.00	2.80	1.80	300-7036-2-ND	1328.00	CMX309FLC17.734475MT
18.000	300-7037-1-ND	3.00	2.80	1.80	300-7037-2-ND	1328.00	CMX309FLC18.000MT
18.432	300-7038-1-ND	3.00	2.80	1.80	300-7038-2-ND	1328.00	CMX309FLC18.432MT
19.6608	300-7039-1-ND	3.00	2.80	1.80	300-7039-2-ND	1328.00	CMX309FLC19.6608MT
20.000	300-7040-1-ND	3.00	2.80	1.80	300-7040-2-ND	1328.00	CMX309FLC20.000MT
22.1184	300-7041-1-ND	3.00	2.80	1.80	300-7041-2-ND	1328.00	CMX309FLC22.1184MT
24.000	300-7042-1-ND	3.00	2.80	1.80	300-7042-2-ND	1360.00	CMX309FLC24.000MT
24.576	300-7043-1-ND	3.00	2.80	1.80	300-7043-2-ND	1328.00	CMX309FLC24.576MT
25.000	300-7044-1-ND	3.00	2.80	1.80	300-7044-2-ND	1328.00	CMX309FLC25.000MT
25.175	300-7045-1-ND	3.00	2.80	1.80	300-7045-2-ND	1328.00	CMX309FLC25.175MT
27.000	300-7046-1-ND	3.00	2.80	1.80	300-7046-2-ND	1328.00	CMX309FLC27.000MT
28.322	300-7047-1-ND	3.00	2.80	1.80	300-7047-2-ND	1328.00	CMX309FLC28.322MT
28.63636	300-7048-1-ND	3.00	2.80	1.80	300-7048-2-ND	1328.00	CMX309FLC28.63636MT
29.498928	300-7049-1-ND	3.00	2.80	1.80	300-7049-2-ND	1328.00	CMX309FLC29.498928MT
30.000	300-7050-1-ND	3.00	2.80	1.80	300-7050-2-ND	1328.00	CMX309FLC30.000MT

NEW! CMX309FBC Series Oscillators

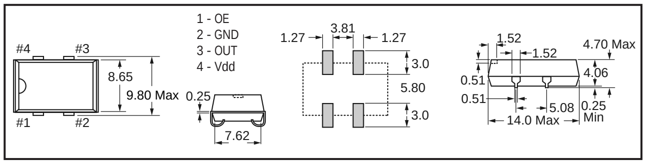
SPECIFICATIONS: • **Frequency Stability:** ±100ppm (-20°C to +70°C) • **Operating Temperature Range:** -20°C to +70°C • **Storage Temperature Range:** -55°C to +125°C • **Supply Voltage:** VMAX: -0.5V to 7.0V • **Supply Current:** 9mA Max. • **Duty:** CMOS Level (50%VDD): 40% to 60% • **Output Voltage:** VOH: VDD -0.4V Min.; VOL: 0.4V Max. • **Rise & Fall Time:** CMOS: tr,tf : 6ns Max. • **Start-up Time:** 4ms Max. • **Input (OE) Voltage:** VIH: 2.0V Min.; VIL: 0.8V Max. • **Disable Current:** 5mA Max. • **Aging (first year):** ±5ppm/year



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
		1	10	50			
1.000	300-2100-1-ND	2.81	2.63	1.69	300-2100-2-ND	1245.00	CMX309FBC1.000MTR
1.544	300-2101-1-ND	2.81	2.63	1.69	300-2101-2-ND	1245.00	CMX309FBC1.544MTR
1.8432	300-2102-1-ND	2.81	2.63	1.69	300-2102-2-ND	1245.00	CMX309FBC1.8432MTR
2.000	300-2103-1-ND	2.81	2.63	1.69	300-2103-2-ND	1245.00	CMX309FBC2.000MTR
2.048	300-2104-1-ND	2.81	2.63	1.69	300-2104-2-ND	1245.00	CMX309FBC2.048MTR
2.4576	300-2105-1-ND	2.81	2.63	1.69	300-2105-2-ND	1245.00	CMX309FBC2.4576MTR
3.6864	300-2106-1-ND	2.81	2.63	1.69	300-2106-2-ND	1245.00	CMX309FBC3.6864MTR
4.000	300-2107-1-ND	2.81	2.63	1.69	300-2107-2-ND	1245.00	CMX309FBC4.000MTR
5.000	300-2108-1-ND	2.81	2.63	1.69	300-2108-2-ND	1245.00	CMX309FBC5.000MTR
8.000	300-2109-1-ND	2.81	2.63	1.69	300-2109-2-ND	1245.00	CMX309FBC8.000MTR
8.192	300-2110-1-ND	2.81	2.63	1.69	300-2110-2-ND	1245.00	CMX309FBC8.192MTR
9.8304	300-2111-1-ND	2.81	2.63	1.69	300-2111-2-ND	1245.00	CMX309FBC9.8304MTR
10.000	300-2112-1-ND	2.81	2.63	1.69	300-2112-2-ND	1245.00	CMX309FBC10.000MTR
11.0592	300-2113-1-ND	2.81	2.63	1.69	300-2113-2-ND	1245.00	CMX309FBC11.0592MTR
11.2896	300-2114-1-ND	2.81	2.63	1.69	300-2114-2-ND	1245.00	CMX309FBC11.2896MTR
12.000	300-2115-1-ND	2.81	2.63	1.69	300-2115-2-ND	1245.00	CMX309FBC12.000MTR
12.288	300-2116-1-ND	2.81	2.63	1.69	300-2116-2-ND	1245.00	CMX309FBC12.288MTR
14.31818	300-2117-1-ND	2.81	2.63	1.69	300-2117-2-ND	1245.00	CMX309FBC14.31818MTR
14.7456	300-2118-1-ND	2.81	2.63	1.69	300-2118-2-ND	1245.00	CMX309FBC14.7456MTR
16.000	300-2119-1-ND	2.81	2.63	1.69	300-2119-2-ND	1245.00	CMX309FBC16.000MTR
16.384	300-2120-1-ND	2.81	2.63	1.69	300-2120-2-ND	1245.00	CMX309FBC16.384MTR
18.432	300-2121-1-ND	2.81	2.63	1.69	300-2121-2-ND	1245.00	CMX309FBC18.432MTR
20.000	300-2122-1-ND	2.81	2.63	1.69	300-2122-2-ND	1245.00	CMX309FBC20.000MTR
24.000	300-2123-1-ND	2.81	2.63	1.69	300-2123-2-ND	1245.00	CMX309FBC24.000MTR
24.576	300-2124-1-ND	2.81	2.63	1.69	300-2124-2-ND	1245.00	CMX309FBC24.576MTR
25.000	300-2125-1-ND	2.81	2.63	1.69	300-2125-2-ND	1245.00	CMX309FBC25.000MTR
27.000	300-2126-1-ND	2.81	2.63	1.69	300-2126-2-ND	1245.00	CMX309FBC27.000MTR

CMX309HWC Series Oscillators

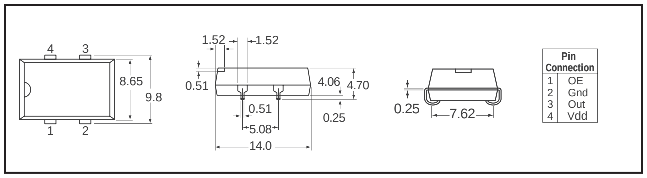
SPECIFICATIONS: • **Frequency Stability:** ±100ppm (-20°C to +70°C) • **Operating Temperature Range:** -20°C to +70°C • **Storage Temperature Range:** -55° C to +125°C • **Supply Voltage:** VDD: 5.0V ±0.5V • **Supply Current:** 35mA Max. • **Duty:** TTL Level (1.4V): 45% to 55% • CMOS Level (VDD/2): 40% to 60% • **Output Voltage:** VOH: VDD - 0.5V Min.; VOL: 0.5V Max. • **Output Load:** TTL: 10TTL Max.; CMOS: 50pF Max. • **Rise & Fall Time:** TTL: tr,tf : 5nsec Max.; CMOS: tr,tf : 7nsec Max. • **Start-up Time:** 10msec Max. • **Input (OE) Voltage:** VIH: 2.0V Min.; VIL: 0.8V Max. • **Disable Current:** 28mA Max. • **Aging (first year):** ±5ppm/year Max.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
		1	10	50			
32.000	300-7101-1-ND	3.00	2.80	1.80	300-7101-2-ND	1328.00	CMX309HWC32.000MT
32.768	300-7102-1-ND	3.00	2.80	1.80	300-7102-2-ND	1328.00	CMX309HWC32.768MT
33.000	300-7103-1-ND	3.00	2.80	1.80	300-7103-2-ND	1328.00	CMX309HWC33.000MT
33.3333	300-7104-1-ND	3.00	2.80	1.80	300-7104-2-ND	1328.00	CMX309HWC33.3333MT
33.8688	300-7105-1-ND	3.00	2.80	1.80	300-7105-2-ND	1328.00	CMX309HWC33.8688MT
40.000	300-7107-1-ND	3.00	2.80	1.80	300-7107-2-ND	1328.00	CMX309HWC40.000MT
44.2368	300-7108-1-ND	3.00	2.80	1.80	300-7108-2-ND	1328.00	CMX309HWC44.2368MT
48.000	300-7109-1-ND	3.00	2.80	1.80	300-7109-2-ND	1328.00	CMX309HWC48.000MT
49.152	300-7110-1-ND	3.00	2.80	1.80	300-7110-2-ND	1328.00	CMX309HWC49.152MT
50.000	300-7111-1-ND	3.19	2.98	1.92	300-7111-2-ND	1411.00	CMX309HWC50.000MT
53.125	300-7112-1-ND	3.00	2.80	1.80	300-7112-2-ND	1328.00	CMX309HWC53.125MT
60.000	300-7113-1-ND	3.00	2.80	1.80	300-7113-2-ND	1328.00	CMX309HWC60.000MT
64.000	300-7114-1-ND	3.00	2.80	1.80	300-7114-2-ND	1328.00	CMX309HWC64.000MT
66.000	300-7115-1-ND	3.00	2.80	1.80	—	—	CMX309HWC66.000MT
66.6667	300-7116-1-ND	3.00	2.80	1.80	300-7116-2-ND	1328.00	CMX309HWC66.6667MT

NEW! CMX309HBC Series Oscillators

SPECIFICATIONS: • **Frequency Stability:** ±100ppm (-20°C to +70°C) • **Operating Temperature Range:** -20°C to +70°C • **Storage Temperature Range:** -55°C to +125°C • **Supply Voltage:** VMAX: -0.5V to +7.0V • **Supply Current:** 20mA Max. • **Duty:** CMOS Level (50%VDD): 40% to 60% • **Output Voltage:** VOH: VDD - 0.4V Min.; VOL: 0.4V Max. • **Rise & Fall Time:** CMOS: tr,tf : 6ns Max. • **Start-up Time:** 10ms Max. • **Input (OE) Voltage:** VIH: 2.4V Min.; VIL: 0.6V Max. • **Disable Current:** 15mA Max. • **Aging (first year):** ±5ppm/year

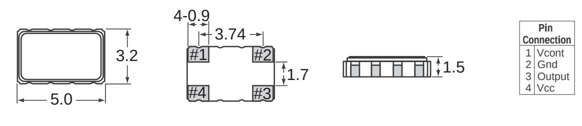


Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
		1	10	50			
32.000	300-2200-1-ND	2.81	2.63	1.69	300-2200-2-ND	1245.00	CMX309HBC32.000MTR
32.768	300-2201-1-ND	2.81	2.63	1.69	300-2201-2-ND	1245.00	CMX309HBC32.768MTR
33.000	300-2202-1-ND	2.81	2.63	1.69	300-2202-2-ND	1245.00	CMX309HBC33.000MTR
33.3333	300-2203-1-ND	2.81	2.63	1.69	300-2203-2-ND	1245.00	CMX309HBC33.3333MTR
36.864	300-2204-1-ND	2.81	2.63	1.69	300-2204-2-ND	1245.00	CMX309HBC36.864MTR
40.000	300-2205-1-ND	2.81	2.63	1.69	300-2205-2-ND	1245.00	CMX309HBC40.000MTR
48.000	300-2206-1-ND	2.81	2.63	1.69	300-2206-2-ND	1245.00	CMX309HBC48.000MTR
50.000	300-2207-1-ND	2.81	2.63	1.69	300-2207-2-ND	1245.00	CMX309HBC50.000MTR
53.125	300-2208-1-ND	2.81	2.63	1.69	300-2208-2-ND	1245.00	CMX309HBC53.125MTR

CITIZEN™ Oscillators

NEW! CSX-532T Series SMT TCXO

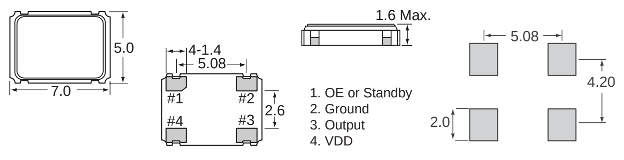
SPECIFICATIONS	CSX-532T
Frequency Tolerance:	±1.5ppm / 25±2°C
Frequency/Temperature:	±2.5ppm / -30° to +75°C
Frequency/Voltage Coefficient:	±0.3ppm / Vdd±5%
Frequency/Load Coefficient:	±0.2ppm / (10kohm/10pf)±10%
Aging:	±1.0ppm/ Year
Power Consumption:	1.0mA Max. / 13MHz
Output Level:	0.8Vp-p Min. / (10kohm/10pf)
Startup Time:	3.5msec Max.
Frequency Adjustment:	±8ppm Min. / Vdd/2±1.0V



Supply Volt- age	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
2.8	13.000	300-1100-1-ND	8.75	6.48	5.78	300-1100-2-ND	4655.00/M	CSX532T13.000M2-U10
	16.800	300-1101-1-ND	8.75	6.48	5.78	300-1101-2-ND	4655.00/M	CSX532T16.800M2-U10
	19.200	300-1102-1-ND	8.75	6.48	5.78	300-1102-2-ND	4655.00/M	CSX532T19.200M2-U10
	26.000	300-1103-1-ND	8.75	6.48	5.78	300-1103-2-ND	4655.00/M	CSX532T26.000M2-U10
3.0	13.000	300-1104-1-ND	8.75	6.48	5.78	300-1104-2-ND	4655.00/M	CSX532T13.000M3-U10
	16.800	300-1105-1-ND	8.75	6.48	5.78	300-1105-2-ND	4655.00/M	CSX532T16.800M3-U10
	19.200	300-1106-1-ND	8.75	6.48	5.78	300-1106-2-ND	4655.00/M	CSX532T19.200M3-U10
	26.000	300-1107-1-ND	8.75	6.48	5.78	300-1107-2-ND	4655.00/M	CSX532T26.000M3-U10

SMT Oscillators CSX-750FC, FB, FJ

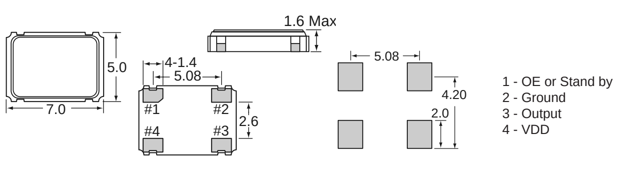
SPECIFICATIONS	CSX-750FC		CSX-750FB	CSX-750FJ
Frequency Range:	1.000MHz to 39.999MHz	40.000MHz to 70.000MHz	1.000MHz to 39.999MHz	40.000MHz to 70.000MHz
Frequency Stability:	C:±100ppm @ (-20°C to +70°C)			
Operating Temperature:	-20°C to +70°C			
Storage Temperature:	-55°C to 125°C			
Supply Voltage:	Vdd: 5.0V±0.5V		Vdd: 3.3V±0.3V	Vdd: 3.3V±0.3V
Supply Current:	25mA Max.	45mA Max.	15mA Max.	25mA Max.
Duty: TTL Level (1.4V) **CMOS Level (VDD/2)**	40% to 60% 45% to 55%		— 45% to 55%	— 45% to 55%
Output Voltage: VOH **VOL**	4.0V Min. 0.4V Max.		2.2V Min. 0.4V Max.	2.2V Min. 0.4V Max.
Output Load: TTL **CMOS**	10TTL Max. 50pF Max.		— 30pF Max.	— 30pF Max.
Rise & Fall Time: CMOS	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.
Start Up Time:	4msec Max.	10msec Max.	4msec Max.	10msec Max.
Input (OE) Voltage:	V IH: 2.0V Min. V IL: 0.8V Max.		V IH: 2.0V Min. V IL: 0.4V Max.	V IH: 0.7VDD Min. V IL: 0.3VDD Max.
Disable Current: FC FB	10mA Max.	20mA Max.	5mA Max.	—
Stand-by Current: FJ	—	—	—	10µA Max.
Shock Resistance:	±20ppm Max. (75cm height drop on hardwood board 3 times.)			



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
1.84320	300-7200-1-ND	3.56	3.33	2.85	300-7200-2-ND	1330.00/M	CSX750FCC1.843200MTR
3.68640	300-7201-1-ND	3.56	3.33	2.85	300-7201-2-ND	1330.00/M	CSX750FCC3.686400MTR
4.00000	300-7202-1-ND	3.56	3.33	2.85	300-7202-2-ND	1330.00/M	CSX750FCC4.000000MTR
7.37280	300-7203-1-ND	3.56	3.33	2.85	300-7203-2-ND	1330.00/M	CSX750FCC7.372800MTR
8.00000	300-7204-1-ND	3.56	3.33	2.85	300-7204-2-ND	1330.00/M	CSX750FCC8.000000MTR
10.00000	300-7205-1-ND	3.56	3.33	2.85	300-7205-2-ND	1330.00/M	CSX750FCC10.000000MTR
12.00000	300-7206-1-ND	3.56	3.33	2.85	300-7206-2-ND	1330.00/M	CSX750FCC12.000000MTR
12.28800	300-7207-1-ND	3.56	3.33	2.85	300-7207-2-ND	1330.00/M	CSX750FCC12.288000MTR
14.31818	300-7208-1-ND	3.56	3.33	2.85	300-7208-2-ND	1330.00/M	CSX750FCC14.318180MTR
14.74560	300-7209-1-ND	3.56	3.33	2.85	300-7209-2-ND	1330.00/M	CSX750FCC14.745600MTR
16.00000	300-7210-1-ND	3.56	3.33	2.85	300-7210-2-ND	1330.00/M	CSX750FCC16.000000MTR
16.38400	300-7211-1-ND	3.56	3.33	2.85	300-7211-2-ND	1330.00/M	CSX750FCC16.384000MTR
18.43200	300-7212-1-ND	3.56	3.33	2.85	300-7212-2-ND	1330.00/M	CSX750FCC18.432000MTR
20.00000	300-7213-1-ND	3.56	3.33	2.85	300-7213-2-ND	1330.00/M	CSX750FCC20.000000MTR
24.00000	300-7214-1-ND	3.56	3.33	2.85	300-7214-2-ND	1330.00/M	CSX750FCC24.000000MTR
24.57600	300-7215-1-ND	3.56	3.33	2.85	300-7215-2-ND	1330.00/M	CSX750FCC24.576000MTR
25.00000	300-7216-1-ND	3.56	3.33	2.85	300-7216-2-ND	1330.00/M	CSX750FCC25.000000MTR
27.00000	300-7217-1-ND	3.56	3.33	2.85	300-7217-2-ND	1330.00/M	CSX750FCC27.000000MTR
29.49120	300-7218-1-ND	3.56	3.33	2.85	300-7218-2-ND	1330.00/M	CSX750FCC29.491200MTR
32.00000	300-7219-1-ND	3.56	3.33	2.85	300-7219-2-ND	1330.00/M	CSX750FCC32.000000MTR
32.76800	300-7220-1-ND	3.56	3.33	2.85	300-7220-2-ND	1330.00/M	CSX750FCC32.768000MTR
33.33300	300-7221-1-ND	3.56	3.33	2.85	300-7221-2-ND	1330.00/M	CSX750FCC33.333000MTR
35.32800	300-7222-1-ND	3.56	3.33	2.85	300-7222-2-ND	1330.00/M	CSX750FCC35.328000MTR
40.00000	300-7223-1-ND	3.56	3.33	2.85	300-7223-2-ND	1330.00/M	CSX750FCC40.000000MTR
44.00000	300-7224-1-ND	3.56	3.33	2.85	300-7224-2-ND	1330.00/M	CSX750FCC44.000000MTR
45.00000	300-7225-1-ND	3.56	3.33	2.85	300-7225-2-ND	1330.00/M	CSX750FCC45.000000MTR
49.15200	300-7226-1-ND	3.56	3.33	2.85	300-7226-2-ND	1330.00/M	CSX750FCC49.152000MTR
50.00000	300-7227-1-ND	3.56	3.33	2.85	300-7227-2-ND	1330.00/M	CSX750FCC50.000000MTR
60.00000	300-7228-1-ND	3.56	3.33	2.85	300-7228-2-ND	1330.00/M	CSX750FCC60.000000MTR
66.66600	300-7229-1-ND	3.56	3.33	2.85	300-7229-2-ND	1330.00/M	CSX750FCC66.666000MTR
1.84320	300-7230-1-ND	3.56	3.33	2.85	300-7230-2-ND	1330.00/M	CSX750FBC1.843200MTR
3.68640	300-7231-1-ND	3.56	3.33	2.85	300-7231-2-ND	1330.00/M	CSX750FBC3.686400MTR
4.00000	300-7232-1-ND	3.56	3.33	2.85	300-7232-2-ND	1330.00/M	CSX750FBC4.000000MTR
7.37280	300-7233-1-ND	3.56	3.33	2.85	300-7233-2-ND	1330.00/M	CSX750FBC7.372800MTR
8.00000	300-7234-1-ND	3.56	3.33	2.85	300-7234-2-ND	1330.00/M	CSX750FBC8.000000MTR
10.00000	300-7235-1-ND	3.56	3.33	2.85	300-7235-2-ND	1330.00/M	CSX750FBC10.000000MTR
12.00000	300-7236-1-ND	3.56	3.33	2.85	300-7236-2-ND	1330.00/M	CSX750FBC12.000000MTR
12.28800	300-7237-1-ND	3.56	3.33	2.85	300-7237-2-ND	1330.00/M	CSX750FBC12.288000MTR
14.31818	300-7238-1-ND	3.56	3.33	2.85	300-7238-2-ND	1330.00/M	CSX750FBC14.318180MTR
14.74560	300-7239-1-ND	3.56	3.33	2.85	300-7239-2-ND	1330.00/M	CSX750FBC14.745600MTR
16.00000	300-7240-1-ND	3.56	3.33	2.85	300-7240-2-ND	1330.00/M	CSX750FBC16.000000MTR
16.38400	300-7241-1-ND	3.56	3.33	2.85	300-7241-2-ND	1330.00/M	CSX750FBC16.384000MTR
18.43200	300-7242-1-ND	3.56	3.33	2.85	300-7242-2-ND	1330.00/M	CSX750FBC18.432000MTR
20.00000	300-7243-1-ND	3.56	3.33	2.85	300-7243-2-ND	1330.00/M	CSX750FBC20.000000MTR
24.00000	300-7244-1-ND	3.56	3.33	2.85	300-7244-2-ND	1330.00/M	CSX750FBC24.000000MTR
24.57600	300-7245-1-ND	3.56	3.33	2.85	300-7245-2-ND	1330.00/M	CSX750FBC24.576000MTR
25.00000	300-7246-1-ND	3.56	3.33	2.85	300-7246-2-ND	1330.00/M	CSX750FBC25.000000MTR
27.00000	300-7247-1-ND	3.56	3.33	2.85	300-7247-2-ND	1330.00/M	CSX750FBC27.000000MTR
29.49120	300-7248-1-ND	3.56	3.33	2.85	300-7248-2-ND	1330.00/M	CSX750FBC29.491200MTR
32.00000	300-7249-1-ND	3.56	3.33	2.85	300-7249-2-ND	1330.00/M	CSX750FBC32.000000MTR
32.76800	300-7250-1-ND	3.56	3.33	2.85	300-7250-2-ND	1330.00/M	CSX750FBC32.768000MTR
33.33300	300-7251-1-ND	3.56	3.33	2.85	300-7251-2-ND	1330.00/M	CSX750FBC33.333000MTR
35.32800	300-7252-1-ND	3.56	3.33	2.85	300-7252-2-ND	1330.00/M	CSX750FBC35.328000MTR
40.00000	300-7253-1-ND	3.56	3.33	2.85	300-7253-2-ND	1330.00/M	CSX750FJC40.000000MTR
44.00000	300-7254-1-ND	3.56	3.33	2.85	300-7254-2-ND	1330.00/M	CSX750FJC44.000000MTR
45.00000	300-7255-1-ND	3.56	3.33	2.85	300-7255-2-ND	1330.00/M	CSX750FJC45.000000MTR
49.15200	300-7256-1-ND	3.56	3.33	2.85	300-7256-2-ND	1330.00/M	CSX750FJC49.152000MTR
50.00000	300-7257-1-ND	3.56	3.33	2.85	300-7257-2-ND	1330.00/M	CSX750FJC50.000000MTR
60.00000	300-7258-1-ND	3.56	3.33	2.85	300-7258-2-ND	1330.00/M	CSX750FJC60.000000MTR
66.66600	300-7259-1-ND	3.56	3.33	2.85	300-7259-2-ND	1330.00/M	CSX750FJC66.666000MTR

High Frequency Ceramic Surface Mount Clock Oscillator CSX750A

SPECIFICATIONS: • CSX750AC: 10TTL/30pF, OE, 5.0V Operation Type • CSX750AB: 15pF, OE, 3.3V Operation Type • **Nominal Frequency:** CSX750AC/AB 70.0 to 140.0MHz • **Operating Temperature:** -20°C to +70°C • Supply Voltage: CSX750AC 5.0 ±0.5V, CSX750AB 3.3 ±0.3V • **Frequency Stability:** B:±50ppm(-20°C to +70°C) • **Current Consumption:** 50mA Max (CSX750AC), 30mA Max (CSX750AB) • **Duty Cycle:** 40% to 60% (TTL level), 45% to 55%(C-MOS level)

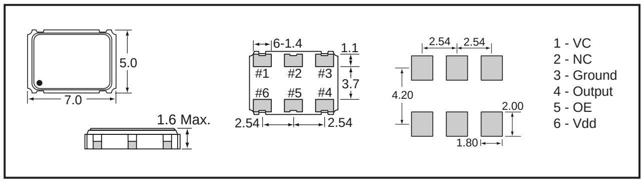


Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
80.0000	300-8145-1-ND	4.13	3.38	3.00	300-8145-2-ND	2100.00/M	CSX750ACB80.000MTR
100.0000	300-8146-1-ND	4.13	3.38	3.00	—	—	CSX750ACB100.000MTR
100.0200	300-8147-1-ND	4.13	3.38	3.00	—	—	CSX750ACB100.020MTR
106.2500	300-8148-1-ND	4.13	3.38	3.00	300-8148-2-ND	2100.00/M	CSX750ACB106.250MTR
125.0000	300-8149-1-ND	4.13	3.38	3.00	300-8149-2-ND	2100.00/M	CSX750ACB125.000MTR
133.3300	300-8150-1-ND	4.13	3.38	3.00	300-8150-2-ND	2100.00/M	CSX750ACB133.330MTR
80.0000	300-8151-1-ND	4.13	3.38	3.00	—	—	CSX750ABB80.000MTR
100.0200	300-8153-1-ND	4.13	3.38	3.00	300-8153-2-ND	2100.00/M	CSX750ABB100.020MTR
106.2500	300-8154-1-ND	4.13	3.38	3.00	300-8154-2-ND	2100.00/M	CSX750ABB106.250MTR
125.0000	300-8155-1-ND	4.13	3.38	3.00	300-8155-2-ND	2100.00/M	CSX750ABB125.000MTR

CITIZEN™ Oscillators

Voltage Controlled Crystal Oscillator CSX750V

SPECIFICATIONS: • CSX750VC: 2TTL/30pF, OE<pin#5>, ±100ppm Pullability, 5.0V operation type • CSX750VB: 30pF, OE<pin#5>, ±90ppm Pullability, 3.3V operation type • **Nominal Frequency:** CSX750AC/AB 2.430 to 35.328MHz • **Operating Temperature:** -20°C to +70°C • **Supply Voltage:** CSX750VC 5.0 ±0.5V, CSX750VB 3.3 ±0.3V • **Frequency Stability:** B:±50ppm(-20°C to 70°C) • **Current Consumption:** 30mA Max. (CSX750VC), 11mA Max. (CSX750VB) • **Duty Cycle:** 40% to 60% (TTL level), 45% to 55% (C-MOS level) • **Pullability:** ±100ppm Min./Vc=2.5V±2.0V, ±90ppm Min./1.65V±1.65V • **Modulation Band Width:** 10kHz Min./gain-3dB • **Phase Noise:** -120dBc/Hz Max./offset 1KHz



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
		1	10	50			
4.0960	300-8157-1-ND	8.25	6.75	6.00	300-8157-2-ND	4200.00/M	CSX750VCBM4.096MTR
8.0000	300-8158-1-ND	8.25	6.75	6.00	300-8158-2-ND	4200.00/M	CSX750VCBM8.000MTR
8.1920	300-8159-1-ND	8.25	6.75	6.00	300-8159-2-ND	4200.00/M	CSX750VCBM8.192MTR
12.2880	300-8160-1-ND	8.25	6.75	6.00	300-8160-2-ND	4200.00/M	CSX750VCBM12.288MTR
12.3520	300-8161-1-ND	8.25	6.75	6.00	300-8161-2-ND	4200.00/M	CSX750VCBM12.352MTR
13.500	300-8162-1-ND	8.25	6.75	6.00	300-8162-2-ND	4200.00/M	CSX750VCBM13.500MTR
16.3840	300-8163-1-ND	8.25	6.75	6.00	300-8163-2-ND	4200.00/M	CSX750VCBM16.384MTR
19.4400	300-8164-1-ND	8.25	6.75	6.00	300-8164-2-ND	4200.00/M	CSX750VCBM19.440MTR
20.0000	300-8165-1-ND	8.25	6.75	6.00	300-8165-2-ND	4200.00/M	CSX750VCBM20.000MTR
24.5760	300-8166-1-ND	8.25	6.75	6.00	300-8166-2-ND	4200.00/M	CSX750VCBM24.576MTR
24.7040	300-8167-1-ND	8.25	6.75	6.00	300-8167-2-ND	4200.00/M	CSX750VCBM24.704MTR
25.0000	300-8168-1-ND	8.25	6.75	6.00	300-8168-2-ND	4200.00/M	CSX750VCBM25.000MTR
27.0000	300-8169-1-ND	8.25	6.75	6.00	300-8169-2-ND	4200.00/M	CSX750VCBM27.000MTR
32.0000	300-8170-1-ND	8.25	6.75	6.00	300-8170-2-ND	4200.00/M	CSX750VCBM32.000MTR
32.7680	300-8171-1-ND	8.25	6.75	6.00	300-8171-2-ND	4200.00/M	CSX750VCBM32.768MTR
35.3280	300-8172-1-ND	8.25	6.75	6.00	300-8172-2-ND	4200.00/M	CSX750VCBM35.328MTR
4.0960	300-8173-1-ND	8.25	6.75	6.00	300-8173-2-ND	4200.00/M	CSX750VBBL4.096MTR
8.0000	300-8174-1-ND	8.25	6.75	6.00	300-8174-2-ND	4200.00/M	CSX750VBBL8.000MTR
8.1920	300-8175-1-ND	8.25	6.75	6.00	300-8175-2-ND	4200.00/M	CSX750VBBL8.192MTR
12.2880	300-8176-1-ND	8.25	6.75	6.00	300-8176-2-ND	4200.00/M	CSX750VBBL12.288MTR
12.3520	300-8177-1-ND	8.25	6.75	6.00	300-8177-2-ND	4200.00/M	CSX750VBBL12.352MTR
13.500	300-8178-1-ND	8.25	6.75	6.00	300-8178-2-ND	4200.00/M	CSX750VBBL13.500MTR
16.3840	300-8179-1-ND	8.25	6.75	6.00	300-8179-2-ND	4200.00/M	CSX750VBBL16.384MTR
19.4400	300-8180-1-ND	8.25	6.75	6.00	300-8180-2-ND	4200.00/M	CSX750VBBL19.440MTR
20.0000	300-8181-1-ND	8.25	6.75	6.00	300-8181-2-ND	4200.00/M	CSX750VBBL20.000MTR
24.5760	300-8182-1-ND	8.25	6.75	6.00	300-8182-2-ND	4200.00/M	CSX750VBBL24.576MTR
24.7040	300-8183-1-ND	8.25	6.75	6.00	300-8183-2-ND	4200.00/M	CSX750VBBL24.704MTR
25.0000	300-8184-1-ND	8.25	6.75	6.00	300-8184-2-ND	4200.00/M	CSX750VBBL25.000MTR
27.0000	300-8185-1-ND	8.25	6.75	6.00	300-8185-2-ND	4200.00/M	CSX750VBBL27.000MTR
32.0000	300-8186-1-ND	8.25	6.75	6.00	300-8186-2-ND	4200.00/M	CSX750VBBL32.000MTR
32.7680	300-8187-1-ND	8.25	6.75	6.00	300-8187-2-ND	4200.00/M	CSX750VBBL32.768MTR
35.3280	300-8188-1-ND	8.25	6.75	6.00	300-8188-2-ND	4200.00/M	CSX750VBBL35.328MTR

Crystals

Miniature Plastic Surface Mount 32.768KHz Crystal CM155 and CM130

SPECIFICATIONS: • **Nominal Frequency:** 32.768KHz • **Operating Temperature:** -40°C to +85°C • **Maximum Drive Level:** 1.0µW Max. • **Frequency Tolerance:** ±20ppm **ESR:** 65KΩ Max.

Fig. 1

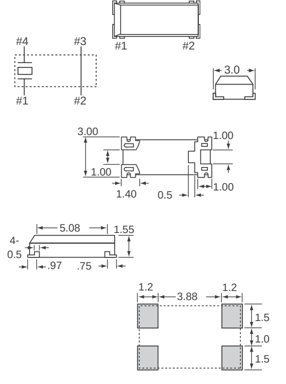


Fig. 2

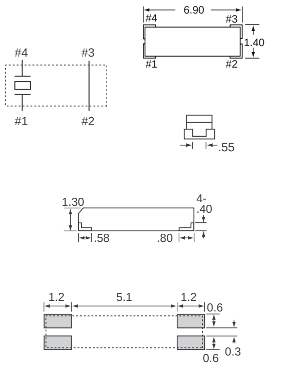
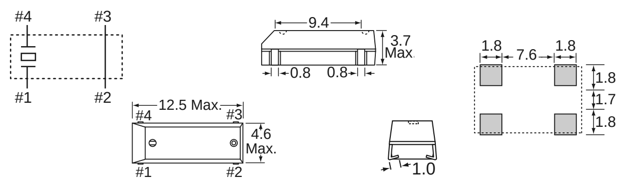


Fig.	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 3,000	Citizen Part No.
			1	10	50			
1	12.5	300-8038-1-ND	1.24	1.02	.90	300-8038-2-ND	765.00/M	CM155-32.768KDZFTR
2	12.5	300-8039-1-ND	1.79	1.47	1.30	300-8039-2-ND	1183.00/M	CM130-32.768KDZFTR

Plastic Surface Mount Crystal CM309S

SPECIFICATIONS: • **Operating Temperature:** -40°C to +85°C • **Maximum Drive Level:** 100µW Max. • **Frequency Tolerance:** ±30ppm • **Frequency Temperature Characteristics:** ±50ppm • **Load Capacitance:** 18.0pF **ESR:** • 3.5MHz≤f0<4MHz 200Ω Max. Fundamental mode • 4MHz≤f0<6MHz 150Ω Max. Fundamental mode • 6MHz≤f0<10MHz 100Ω Max Fundamental mode • 10MHz≤f0<32MHz 50Ω Max. Fundamental mode • 30MHz≤f0<36MHz 100Ω Max. 3rd overtone mode • 36MHz≤f0<70MHz 80Ω Max. 3rd overtone mode



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
		1	10	50			
3.579545	300-8040-1-ND	1.10	.90	.80	300-8040-2-ND	664.00	CM309S3.579545MABJTR
3.6864	300-8041-1-ND	1.10	.90	.80	300-8041-2-ND	664.00	CM309S3.6864MABJTR
4.0000	300-8042-1-ND	1.10	.90	.80	300-8042-2-ND	664.00	CM309S4.000MABJTR
4.0960	300-8043-1-ND	1.10	.90	.80	300-8043-2-ND	664.00	CM309S4.096MABJTR
4.800000	300-2035-1-ND	1.10	.90	.80	300-2035-2-ND	664.00	CM309S4.800MABJTR
4.9152	300-8044-1-ND	1.10	.90	.80	300-8044-2-ND	664.00	CM309S4.9152MABJTR
5.120000	300-2036-1-ND	1.10	.90	.80	300-2036-2-ND	664.00	CM309S5.120MABJTR
5.529600	300-2037-1-ND	1.10	.90	.80	300-2037-2-ND	664.00	CM309S5.5296MABJTR
6.0000	300-8045-1-ND	1.10	.90	.80	300-8045-2-ND	664.00	CM309S6.000MABJTR
6.1440	300-8046-1-ND	1.10	.90	.80	300-8046-2-ND	664.00	CM309S6.144MABJTR
7.3728	300-8047-1-ND	1.10	.90	.80	300-8047-2-ND	664.00	CM309S7.3728MABJTR
7.6800	300-8048-1-ND	1.10	.90	.80	300-8048-2-ND	664.00	CM309S7.680MABJTR
8.0000	300-8049-1-ND	1.10	.90	.80	300-8049-2-ND	664.00	CM309S8.000MABJTR
8.000156	300-2038-1-ND	1.10	.90	.80	300-2038-2-ND	664.00	CM309S8.000156MABJTR
8.192000	300-2039-1-ND	1.10	.90	.80	300-2039-2-ND	664.00	CM309S8.192MABJTR
9.216000	300-2040-1-ND	1.10	.90	.80	300-2040-2-ND	664.00	CM309S9.216MABJTR
9.600000	300-2041-1-ND	1.10	.90	.80	300-2041-2-ND	664.00	CM309S9.600MABJTR
9.8300	300-8050-1-ND	1.10	.90	.80	300-8050-2-ND	664.00	CM309S9.830MABJTR
10.0000	300-8051-1-ND	1.10	.90	.80	300-8051-2-ND	664.00	CM309S10.000MABJTR
10.2400	300-8052-1-ND	1.10	.90	.80	300-8052-2-ND	664.00	CM309S10.240MABJTR
11.0592	300-8053-1-ND	1.10	.90	.80	300-8053-2-ND	664.00	CM309S11.0592MABJTR
11.2896	300-8054-1-ND	1.10	.90	.80	300-8054-2-ND	664.00	CM309S11.2896MABJTR
12.0000	300-8055-1-ND	1.10	.90	.80	300-8055-2-ND	664.00	CM309S12.000MABJTR
12.2880	300-8056-1-ND	1.10	.90	.80	300-8056-2-ND	664.00	CM309S12.288MABJTR
12.352000	300-2042-1-ND	1.10	.90	.80	300-2042-2-ND	664.00	CM309S12.352MABJTR
12.500000	300-2043-1-ND	1.10	.90	.80	300-2043-2-ND	664.00	CM309S12.500MABJTR
13.500000	300-2044-1-ND	1.10	.90	.80	300-2044-2-ND	664.00	CM309S13.500MABJTR
14.31818	300-8057-1-ND	1.10	.90	.80	300-8057-2-ND	664.00	CM309S14.31818MABJTR
14.7456	300-8058-1-ND	1.10	.90	.80	300-8058-2-ND	664.00	CM309S14.7456MABJTR
15.0000	300-8059-1-ND	1.10	.90	.80	300-8059-2-ND	664.00	CM309S15.000MABJTR
15.3600	300-8060-1-ND	1.10	.90	.80	300-8060-2-ND	664.00	CM309S15.360MABJTR
16.0000	300-8061-1-ND	1.10	.90	.80	300-8061-2-ND	664.00	CM309S16.000MABJTR
16.000312	300-2045-1-ND	1.10	.90	.80	300-2045-2-ND	664.00	CM309S16.000312MABJTR
16.257000	300-2046-1-ND	1.10	.90	.80	300-2046-2-ND	664.00	CM309S16.257MABJTR
16.384000	300-2047-1-ND	1.10	.90	.80	300-2047-2-ND	664.00	CM309S16.384MABJTR
16.6660	300-8062-1-ND	1.10	.90	.80	300-8062-2-ND	664.00	CM309S16.666MABJTR
16.934400	300-2048-1-ND	1.10	.90	.80	300-2048-2-ND	664.00	CM309S16.9344MABJTR
17.734475	300-2049-1-ND	1.10	.90	.80	300-2049-2-ND	664.00	CM309S17.734475MABJTR
18.000000	300-2050-1-ND	1.10	.90	.80	300-2050-2-ND	664.00	CM309S18.000MABJTR
18.4320	300-8063-1-ND	1.10	.90	.80	300-8063-2-ND	664.00	CM309S18.432MABJTR
18.869000	300-2051-1-ND	1.10	.90	.80	300-2051-2-ND	664.00	CM309S18.869MABJTR
19.4400	300-8064-1-ND	1.10	.90	.80	300-8064-2-ND	664.00	CM309S19.440MABJTR
19.6608	300-8065-1-ND	1.10	.90	.80	300-8065-2-ND	664.00	CM309S19.6608MABJTR
20.0000	300-8066-1-ND	1.10	.90	.80	300-8066-2-ND	664.00	CM309S20.000MABJTR
20.4800	300-8067-1-ND	1.10	.90	.80	300-8067-2-ND	664.00	CM309S20.480MABJTR
22.1184	300-8068-1-ND	1.10	.90	.80	300-8068-2-ND	664.00	CM309S22.1184MABJTR
24.0000	300-8069-1-ND	1.10	.90	.80	300-8069-2-ND	664.00	CM309S24.000MABJTR
24.576000	300-2052-1-ND	1.10	.90	.80	300-2052-2-ND	664.00	CM309S24.576MABJTR
25.0000	300-8071-1-ND	1.10	.90	.80	300-8071-2-ND	664.00	CM309S25.000MABJTR
25.175000	300-2053-1-ND	1.10	.90	.80	300-2053-2-ND	664.00	CM309S25.175MABJTR
27.0000	300-8072-1-ND	1.10	.90	.80	300-8072-2-ND	664.00	CM309S27.000MABJTR
28.000000	300-2054-1-ND	1.10	.90	.80	300-2054-2-ND	664.00	CM309S28.000MABJTR
28.322000	300-2055-1-ND	1.10	.90	.80	300-2055-2-ND	664.00	CM309S28.322MABJTR
28.63636	300-8073-1-ND	1.10	.90	.80	300-8073-2-ND	664.00	CM309S28.63636MABJTR
29.4912	300-8074-1-ND	1.10	.90	.80	300-8074-2-ND	664.00	CM309S29.4912MABJTR
30.0000	300-8075-1-ND	1.10	.90	.80	300-8075-2-ND	664.00	CM309S30.000MABJTR
32.0000	300-8076-1-ND	1.10	.90	.80	300-8076-2-ND	664.00	CM309S32.000MABJTR
32.7680	300-8077-1-ND	1.10	.90	.80	300-8077-2-ND	664.00	CM309S32.768MABJTR
33.0000	300-8078-1-ND	1.10	.90	.80	300-8078-2-ND	664.00	CM309S33.000MABJTR
33.3333	300-8079-1-ND	1.10	.90	.80	300-8079-2-ND	664.00	CM309S33.3333MABJTR
33.868800	300-2056-1-ND	1.10	.90	.80	300-2056-2-ND	664.00	CM309S33.8688MABJTR
36.0000	300-8080-1-ND	1.10	.90	.80	300-8080-2-ND	664.00	CM309S36.000MABJTR
40.0000	300-8081-1-ND	1.10	.90	.80	300-8081-2-ND	664.00	CM309S40.000MABJTR
48.0000	300-8082-1-ND	1.10	.90	.80	300-8082-2-ND	664.00	CM309S48.000MABJTR
49.152	300-8083-1-ND	1.10	.90	.80	300-8083-2-ND	664.00	CM309S49.152MABJTR
50.0000	300-8084-1-ND	1.10	.90	.80	300-8084-2-ND	664.00	CM309S50.000MABJTR
53.1250	300-8085-1-ND	1.10	.90	.80	300-8085-2-ND	664.00	CM309S53.125MABJTR
60.0000	300-8086-1-ND	1.10	.90	.80	300-8086-2-ND	664.00	CM309S60.000MABJTR
64.0000	300-8087-1-ND	1.10	.90	.80	300-8087-2-ND	664.00	CM309S64.000MABJTR
66.6666	300-8088-1-ND	1.10	.90	.80	300-8088-2-ND	664.00	CM309S66.6666MABJTR

CITIZEN™

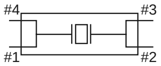
CM309 Series Crystals

Specifications:

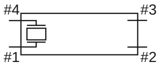
- **Frequency Tolerance:** ±30ppm
- **Frequency Temperature Characteristics:** ±50ppm (-10°C to +60°C)
- **Operating Temperature Range:** -40°C to +85°C
- **Storage Temperature Range:** -55°C to +125°C
- **Load Capacitance:** 18pF
- **Shunt Capacitance:** 7.0pF
- **Drive Level:** 50µW to 100µW
- **Insulation Resistance:** 500MΩ Min.
- **Aging (first year):** ±5ppm Max.

Equivalent Series Resistance (ESR, R1)

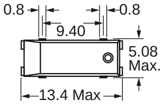
Frequency	ESR	Mode
3.5MHz ≤ fo < 4MHz	200	Fundamental
4MHz ≤ fo < 6MHz	150	
6MHz ≤ fo < 10MHz	100	
10MHz ≤ fo ≤ 32MHz	50	
30MHz < fo < 36MHz	100	3rd OT
36MHz ≤ fo < 66.6666MHz	80	

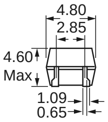


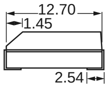
CM309A

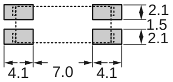


CM309B









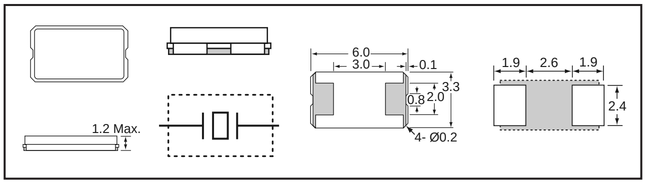
Freq. (MHz)	309A Series Digi-Key Part No.	309A Series Citizen Part No.	309B Series Digi-Key Part No.	309B Series Citizen Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 50	Tape & Reel Pricing† 1,000
3.579545	—	—	300-4101-1-ND	CM309B3.579545MABJT	1.51	1.30	.98	—
3.6864	—	—	300-4102-1-ND	CM309B3.6864MABJT	1.51	1.30	.98	756.00
4.096	300-4004-1-ND	CM309A4.096MABJT	300-4104-1-ND	CM309B4.096MABJT	1.51	1.30	.98	756.00
4.800	300-4005-1-ND	CM309A4.800MABJT	300-4105-1-ND	CM309B4.800MABJT	1.51	1.30	.98	756.00
4.915	300-4006-1-ND	CM309A4.915MABJT	300-4106-1-ND	CM309B4.915MABJT	1.51	1.30	.98	—
5.120	300-4007-1-ND	CM309A5.120MABJT	300-4107-1-ND	CM309B5.120MABJT	1.51	1.30	.98	756.00
5.5296	—	—	300-4108-1-ND	CM309B5.5296MABJT	1.51	1.30	.98	756.00
6.000	300-4009-1-ND	CM309A6.000MABJT	300-4109-1-ND	CM309B6.000MABJT	1.51	1.30	.98	756.00
6.144	300-4010-1-ND	CM309A6.144MABJT	300-4110-1-ND	CM309B6.144MABJT	1.51	1.30	.98	756.00
7.3728	—	—	300-4111-1-ND	CM309B7.3728MABJT	1.51	1.30	.98	—
7.680	300-4012-1-ND	CM309A7.680MABJT	300-4112-1-ND	CM309B7.680MABJT	1.51	1.30	.98	756.00
8.000	300-4013-1-ND	CM309A8.000MABJT	—	—	1.51	1.30	.98	756.00
8.000156	300-4014-1-ND	CM309A8.000156MABJT	300-4114-1-ND	CM309B8.000156MABJT	1.51	1.30	.98	756.00
8.192	300-4015-1-ND	CM309A8.192MABJT	300-4115-1-ND	CM309B8.192MABJT	1.51	1.30	.98	756.00
9.216	300-4016-1-ND	CM309A9.216MABJT	300-4116-1-ND	CM309B9.216MABJT	1.51	1.30	.98	756.00
9.600	—	—	300-4117-1-ND	CM309B9.600MABJT	1.51	1.30	.98	756.00
9.8304	300-4018-1-ND	CM309A9.8304MABJT	300-4118-1-ND	CM309B9.8304MABJT	1.51	1.30	.98	756.00
10.240	300-4020-1-ND	CM309A10.240MABJT	300-4120-1-ND	CM309B10.240MABJT	1.51	1.30	.98	756.00
11.000	300-4021-1-ND	CM309A11.000MABJT	300-4121-1-ND	CM309B11.000MABJT	1.51	1.30	.98	756.00
11.0592	300-4022-1-ND	CM309A11.0592MABJT	300-4122-1-ND	CM309B11.0592MABJT	1.51	1.30	.98	756.00
11.2896	300-4023-1-ND	CM309A11.2896MABJT	300-4123-1-ND	CM309B11.2896MABJT	1.51	1.30	.98	756.00
12.000	300-4024-1-ND	CM309A12.000MABJT	—	—	1.51	1.30	.98	—
12.288	300-4025-1-ND	CM309A12.288MABJT	300-4125-1-ND	CM309B12.288MABJT	1.51	1.30	.98	—
12.352	300-4026-1-ND	CM309A12.352MABJT	300-4126-1-ND	CM309B12.352MABJT	1.51	1.30	.98	756.00
12.500	300-4027-1-ND	CM309A12.500MABJT	300-4127-1-ND	CM309B12.500MABJT	1.51	1.30	.98	756.00
13.500	300-4028-1-ND	CM309A13.500MABJT	—	—	1.51	1.30	.98	756.00
14.31818	300-4029-1-ND	CM309A14.31818MABJT	—	—	1.51	1.30	.98	—
14.7456	300-4030-1-ND	CM309A14.7456MABJT	—	—	1.51	1.30	.98	756.00
15.000	300-4031-1-ND	CM309A15.000MABJT	—	—	1.51	1.30	.98	756.00
15.360	300-4032-1-ND	CM309A15.360MABJT	300-4132-1-ND	CM309B15.360MABJT	1.51	1.30	.98	756.00
16.000	—	—	300-4133-1-ND	CM309B16.000MABJT	1.51	1.30	.98	756.00
16.000312	300-4034-1-ND	CM309A16.000312MABJT	300-4134-1-ND	CM309B16.000312MABJT	1.51	1.30	.98	756.00
16.257	300-4035-1-ND	CM309A16.257MABJT	300-4135-1-ND	CM309B16.257MABJT	1.51	1.30	.98	756.00
16.384	300-4036-1-ND	CM309A16.384MABJT	—	—	1.51	1.30	.98	756.00
16.667	300-4037-1-ND	CM309A16.667MABJT	300-4137-1-ND	CM309B16.667MABJT	1.51	1.30	.98	756.00
16.9344	300-4038-1-ND	CM309A16.9344MABJT	300-4138-1-ND	CM309B16.9344MABJT	1.51	1.30	.98	756.00
17.734475	300-4039-1-ND	CM309A17.734475MABJT	300-4139-1-ND	CM309B17.734475MABJT	1.51	1.30	.98	—
18.000	300-4040-1-ND	CM309A18.000MABJT	300-4140-1-ND	CM309B18.000MABJT	1.51	1.30	.98	756.00
18.432	—	—	300-4141-1-ND	CM309B18.432MABJT	1.51	1.30	.98	756.00
18.869	300-4042-1-ND	CM309A18.869MABJT	300-4142-1-ND	CM309B18.869MABJT	1.51	1.30	.98	756.00
19.6608	300-4043-1-ND	CM309A19.6608MABJT	—	—	1.51	1.30	.98	—
20.000	300-4044-1-ND	CM309A20.000MABJT	300-4144-1-ND	CM309B20.000MABJT	1.51	1.30	.98	756.00
20.480	300-4045-1-ND	CM309A20.480MABJT	300-4145-1-ND	CM309B20.480MABJT	1.51	1.30	.98	756.00
22.1184	300-4046-1-ND	CM309A22.1184MABJT	300-4146-1-ND	CM309B22.1184MABJT	1.51	1.30	.98	—
24.000	300-4047-1-ND	CM309A24.000MABJT	300-4147-1-ND	CM309B24.000MABJT	1.51	1.30	.98	756.00
24.576	—	—	300-4148-1-ND	CM309B24.576MABJT	1.51	1.30	.98	756.00
25.000	300-4049-1-ND	CM309A25.000MABJT	—	—	1.51	1.30	.98	756.00
25.175	300-4050-1-ND	CM309A25.175MABJT	300-4150-1-ND	CM309B25.175MABJT	1.51	1.30	.98	756.00
27.000	300-4051-1-ND	CM309A27.000MABJT	300-4151-1-ND	CM309B27.000MABJT	1.51	1.30	.98	756.00
28.000	300-4052-1-ND	CM309A28.000MABJT	300-4152-1-ND	CM309B28.000MABJT	1.51	1.30	.98	756.00
28.322	300-4053-1-ND	CM309A28.322MABJT	300-4153-1-ND	CM309B28.322MABJT	1.51	1.30	.98	756.00
28.63636	300-4054-1-ND	CM309A28.63636MABJT	300-4154-1-ND	CM309B28.63636MABJT	1.51	1.30	.98	756.00
29.4912	300-4055-1-ND	CM309A29.4912MABJT	—	—	1.51	1.30	.98	756.00
30.000	—	—	300-4156-1-ND	CM309B30.000MABJT	1.51	1.30	.98	—
32.000	300-4057-1-ND	CM309A32.000MABJT	300-4157-1-ND	CM309B32.000MABJT	1.51	1.30	.98	756.00
32.768	300-4058-1-ND	CM309A32.768MABJT	300-4158-1-ND	CM309B32.768MABJT	1.51	1.30	.98	756.00
33.000	300-4059-1-ND	CM309A33.000MABJT	300-4159-1-ND	CM309B33.000MABJT	1.51	1.30	.98	756.00
33.3333	300-4060-1-ND	CM309A33.3333MABJT	300-4160-1-ND	CM309B33.3333MABJT	1.51	1.30	.98	756.00
33.8688	300-4061-1-ND	CM309A33.8688MABJT	300-4161-1-ND	CM309B33.8688MABJT	1.51	1.30	.98	756.00
40.000	300-4063-1-ND	CM309A40.000MABJT	300-4163-1-ND	CM309B40.000MABJT	1.51	1.30	.98	756.00
48.000	300-4064-1-ND	CM309A48.000MABJT	300-4164-1-ND	CM309B48.000MABJT	1.51	1.30	.98	756.00
49.152	300-4065-1-ND	CM309A49.152MABJT	300-4165-1-ND	CM309B49.152MABJT	1.51	1.30	.98	756.00
50.000	300-4066-1-ND	CM309A50.000MABJT	300-4166-1-ND	CM309B50.000MABJT	1.51	1.30	.98	756.00
53.125	300-4067-1-ND	CM309A53.125MABJT	300-4167-1-ND	CM309B53.125MABJT	1.51	1.30	.98	756.00
60.000	300-4068-1-ND	CM309A60.000MABJT	300-4168-1-ND	CM309B60.000MABJT	1.51	1.30	.98	756.00
64.000	300-4069-1-ND	CM309A64.000MABJT	300-4169-1-ND	CM309B64.000MABJT	1.51	1.30	.98	756.00
66.6666	300-4070-1-ND	CM309A66.6666MABJT	300-4170-1-ND	CM309B66.6666MABJT	1.51	1.30	.98	756.00

† For Tape & Reel part number, change -1-ND to -2-ND.

CITIZEN™ Crystals

Ceramic Surface Mount Crystal CS10

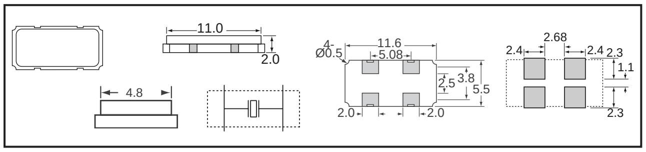
SPECIFICATIONS: • **Operating Temperature:** -40°C to +85°C • **Maximum Drive Level:** 50µW Max. • **Frequency Tolerance:** ±30ppm • **Frequency Temperature Characteristics:** ±50ppm • **Load Capacitance:** 18.0pF(J)
ESR: • 50Ω Max. at 25°C Fundamental mode



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
		1	10	50			
12.0000	300-8089-1-ND	1.65	1.35	1.20	300-8089-2-ND	840.00/M	CS10-12.000MABJTR
12.2880	300-8090-1-ND	1.65	1.35	1.20	300-8090-2-ND	840.00/M	CS10-12.288MABJTR
12.5000	300-8091-1-ND	1.65	1.35	1.20	300-8091-2-ND	840.00/M	CS10-12.500MABJTR
13.5600	300-8092-1-ND	1.65	1.35	1.20	300-8092-2-ND	840.00/M	CS10-13.560MABJTR
14.31818	300-8093-1-ND	1.65	1.35	1.20	300-8093-2-ND	840.00/M	CS10-14.31818MABJTR
14.7456	300-8094-1-ND	1.65	1.35	1.20	300-8094-2-ND	840.00/M	CS10-14.7456MABJTR
15.3600	300-8095-1-ND	1.65	1.35	1.20	300-8095-2-ND	840.00/M	CS10-15.360MABJTR
16.0000	300-8096-1-ND	1.65	1.35	1.20	300-8096-2-ND	840.00/M	CS10-16.000MABJTR
16.3840	300-8097-1-ND	1.65	1.35	1.20	300-8097-2-ND	840.00/M	CS10-16.384MABJTR
18.4320	300-8098-1-ND	1.65	1.35	1.20	300-8098-2-ND	840.00/M	CS10-18.432MABJTR
19.6608	300-8100-1-ND	1.65	1.35	1.20	300-8100-2-ND	840.00/M	CS10-19.6608MABJTR
20.0000	300-8101-1-ND	1.65	1.35	1.20	300-8101-2-ND	840.00/M	CS10-20.000MABJTR
22.1184	300-8102-1-ND	1.65	1.35	1.20	300-8102-2-ND	840.00/M	CS10-22.1184MABJTR
24.0000	300-8103-1-ND	1.65	1.35	1.20	300-8103-2-ND	840.00/M	CS10-24.000MABJTR
24.5760	300-8104-1-ND	1.65	1.35	1.20	300-8104-2-ND	840.00/M	CS10-24.576MABJTR
25.0000	300-8105-1-ND	1.65	1.35	1.20	300-8105-2-ND	840.00/M	CS10-25.000MABJTR
27.0000	300-8106-1-ND	1.65	1.35	1.20	300-8106-2-ND	840.00/M	CS10-27.000MABJTR
28.63636	300-8107-1-ND	1.65	1.35	1.20	300-8107-2-ND	840.00/M	CS10-28.63636MABJTR
29.4912	300-8108-1-ND	1.65	1.35	1.20	300-8108-2-ND	840.00/M	CS10-29.4912MABJTR
29.498928	300-8109-1-ND	1.65	1.35	1.20	300-8109-2-ND	840.00/M	CS10-29.498928MABJTR
32.0000	300-8110-1-ND	1.65	1.35	1.20	300-8110-2-ND	840.00/M	CS10-32.000MABJTR
33.0000	300-8112-1-ND	1.65	1.35	1.20	300-8112-2-ND	840.00/M	CS10-33.000MABJTR
40.0000	300-8114-1-ND	1.65	1.35	1.20	300-8114-2-ND	840.00/M	CS10-40.000MABJTR
48.0000	300-8115-1-ND	1.65	1.35	1.20	300-8115-2-ND	840.00/M	CS10-48.000MABJTR

Ceramic Surface Mount Crystal CS20

SPECIFICATIONS: • **Operating Temperature:** -40°C to +85°C • **Maximum Drive Level:** 100µW Max. • **Frequency Tolerance:** ±30ppm • **Frequency Temperature Characteristics:** ±50ppm • **Load Capacitance:** 18.0pF(J)
ESR: • 3.5MHz≤f0<4MHz 200Ω Max. Fundamental mode • 4MHz≤f0<6MHz 150Ω Max. Fundamental mode • 6MHz≤f0<10MHz 100Ω Max. Fundamental mode • 10MHz≤f0<14MHz 80Ω Max. Fundamental mode • 14MHz ≤f0<30MHz 50Ω Max. Fundamental mode



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
		1	10	50			
3.579545	300-8116-1-ND	1.32	1.08	.96	300-8116-2-ND	672.00/M	CS20-3.579545MABJTR
3.6864	300-8117-1-ND	1.32	1.08	.96	300-8117-2-ND	672.00/M	CS20-3.6864MABJTR
4.0000	300-8118-1-ND	1.32	1.08	.96	300-8118-2-ND	672.00/M	CS20-4.000MABJTR
4.0960	300-8119-1-ND	1.32	1.08	.96	300-8119-2-ND	672.00/M	CS20-4.096MABJTR
4.9152	300-8120-1-ND	1.32	1.08	.96	300-8120-2-ND	672.00/M	CS20-4.9152MABJTR
5.0000	300-8121-1-ND	1.32	1.08	.96	300-8121-2-ND	672.00/M	CS20-5.000MABJTR
6.0000	300-8122-1-ND	1.32	1.08	.96	300-8122-2-ND	672.00/M	CS20-6.000MABJTR
6.1440	300-8123-1-ND	1.32	1.08	.96	300-8123-2-ND	672.00/M	CS20-6.144MABJTR
7.3728	300-8124-1-ND	1.32	1.08	.96	300-8124-2-ND	672.00/M	CS20-7.3728MABJTR
7.6800	300-8125-1-ND	1.32	1.08	.96	300-8125-2-ND	672.00/M	CS20-7.680MABJTR
8.0000	300-8126-1-ND	1.32	1.08	.96	300-8126-2-ND	672.00/M	CS20-8.000MABJTR
10.0000	300-8127-1-ND	1.32	1.08	.96	300-8127-2-ND	672.00/M	CS20-10.000MABJTR
11.0592	300-8128-1-ND	1.32	1.08	.96	300-8128-2-ND	672.00/M	CS20-11.0592MABJTR
11.2896	300-8129-1-ND	1.32	1.08	.96	300-8129-2-ND	672.00/M	CS20-11.2896MABJTR
12.0000	300-8130-1-ND	1.32	1.08	.96	300-8130-2-ND	672.00/M	CS20-12.000MABJTR
12.2880	300-8131-1-ND	1.32	1.08	.96	300-8131-2-ND	672.00/M	CS20-12.288MABJTR
14.31818	300-8132-1-ND	1.32	1.08	.96	300-8132-2-ND	672.00/M	CS20-14.31818MABJTR
14.7456	300-8133-1-ND	1.32	1.08	.96	300-8133-2-ND	672.00/M	CS20-14.7456MABJTR
15.3600	300-8134-1-ND	1.32	1.08	.96	300-8134-2-ND	672.00/M	CS20-15.360MABJTR
16.0000	300-8135-1-ND	1.32	1.08	.96	300-8135-2-ND	672.00/M	CS20-16.000MABJTR
16.6660	300-8136-1-ND	1.32	1.08	.96	300-8136-2-ND	672.00/M	CS20-16.666MABJTR
18.4320	300-8137-1-ND	1.32	1.08	.96	300-8137-2-ND	672.00/M	CS20-18.432MABJTR
19.4400	300-8138-1-ND	1.32	1.08	.96	300-8138-2-ND	672.00/M	CS20-19.440MABJTR
20.0000	300-8139-1-ND	1.32	1.08	.96	300-8139-2-ND	672.00/M	CS20-20.000MABJTR
20.4800	300-8140-1-ND	1.32	1.08	.96	300-8140-2-ND	672.00/M	CS20-20.480MABJTR
22.1184	300-8141-1-ND	1.32	1.08	.96	300-8141-2-ND	672.00/M	CS20-22.1184MABJTR
24.0000	300-8142-1-ND	1.32	1.08	.96	300-8142-2-ND	672.00/M	CS20-24.000MABJTR
24.5760	300-8143-1-ND	1.32	1.08	.96	300-8143-2-ND	672.00/M	CS20-24.576MABJTR
25.0000	300-8144-1-ND	1.32	1.08	.96	300-8144-2-ND	672.00/M	CS20-25.000MABJTR

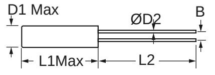
CFS, CFV, and CSA Series Cylinder Type Crystals

SPECIFICATIONS: • **Frequency Tolerance:** CFS Series: ±20ppm; CFV and CSA Series: ±30ppm • **Frequency Temperature Characteristics:** CSA Series: ±50ppm (-10°C to +60°C) • **Operating Temperature Range:** -10°C to +60°C • **Storage Temperature Range:** -40°C to +85°C • **Drive Level:** CFS and CFV Series: 1µW Max.; CSA Series: 50µW to 100µW • **Insulation Resistance:** 500MΩ Min. • **Aging (first year):** CFS Series: ±3ppm Max.; CFV and CSA Series: ±5ppm Max.

Equivalent Series Resistance (ESR, R1) (ΩMax.) for CSA Series

Frequency	ESR	Mode
3.5MHz ≤ fo < 4MHz	200	Fundamental
4MHz ≤ fo < 6MHz	150	
6MHz ≤ fo < 10MHz	100	
10MHz ≤ fo < 30MHz	50	
30MHz < fo < 36MHz	100	3rd OT
36MHz ≤ fo < 66.6666MHz	80	

Cylinder Type



Series	Dimensions (mm) L1 max.	L2	D1 max.	D2	B
CFS145	5.1	4.3	1.5	0.20	0.45
CFS206	6.2	10	2.1	0.26	0.7
CFS308	8.2	10	3.1	0.35	1.1
CFV206	6.2	10	2.1	0.26	0.7
CSA310	10.5	10	3.2	0.32	1.1
CSA309	9.0	10	3.2	0.32	1.1

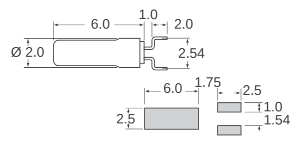
Series	Frequency	Load Cap. (pF)	Shunt Cap. (pF)	Digi-Key Part No.	Price Each			Citizen Part No.
					1	10	50	
CFS145	32.768 KHz	12.5	1.00	300-1003-ND	.95	.81	.68	CFS145-32.768KDZF
CFS206	32.768 KHz	12.5	1.35	300-1002-ND	.42	.36	.24	CFS206-32.768KDZF
	32.768 KHz	6.0	1.35	300-1000-ND	.35	.30	.20	CFS206-32.768KDZBB
CFS308	32.768 KHz	12.5	1.60	300-1001-ND	.42	.36	.24	CFS308-32.768KDZF
CFV206	32.000 KHz	12.5	0.8-1.7	300-3007-ND	1.00	.90	.65	CFV206-32.000KAZF
	40.000 KHz	12.5	0.8-1.7	300-3015-ND	1.00	.90	.65	CFV206-40.000KAZF
	60.000 KHz	12.5	0.8-1.7	300-3018-ND	1.00	.90	.65	CFV206-60.000KAZF
	60.005 KHz	12.5	0.8-1.7	300-3019-ND	1.00	.90	.65	CFV206-60.005KAZF
	65.536 KHz	12.5	0.8-1.7	300-3020-ND	1.00	.90	.65	CFV206-65.536KAZF
	75.000 KHz	12.5	0.8-1.7	300-3021-ND	1.00	.90	.65	CFV206-75.000KAZF
	76.790 KHz	12.5	0.8-1.7	300-3022-ND	1.00	.90	.65	CFV206-76.790KAZF
	76.800 KHz	12.5	0.8-1.7	300-3023-ND	1.00	.90	.65	CFV206-76.800KAZF
	76.810 KHz	12.5	0.8-1.7	300-3024-ND	1.00	.90	.65	CFV206-76.810KAZF
	77.500 KHz	12.5	0.8-1.7	300-3025-ND	1.00	.90	.65	CFV206-77.500KAZF
	77.503 KHz	12.5	0.8-1.7	300-3026-ND	1.00	.90	.65	CFV206-77.503KAZF
	96.000 KHz	12.5	0.8-1.7	300-3029-ND	1.22	1.10	.79	CFV206-96.000KAZF
	100.000 KHz	12.5	0.8-1.7	300-3030-ND	1.00	.90	.65	CFV206-100.000KAZF
CSA310	3.579545 MHz	18.0	5.0	300-1008-ND	.91	.78	.65	CSA310-3.57954MABJ
	3.6864 MHz	18.0	5.0	300-1009-ND	.91	.78	.65	CSA310-3.6864MABJ
	4.000 MHz	18.0	5.0	300-1010-ND	.91	.78	.65	CSA310-4.000MABJ
CSA309	4.096 MHz	18.0	5.0	300-5001-ND	.91	.78	.65	CSA309-4.096MABJ
	4.800 MHz	18.0	5.0	300-5002-ND	.91	.78	.65	CSA309-4.800MABJ
	4.915 MHz	18.0	5.0	300-5003-ND	.91	.78	.65	CSA309-4.915MABJ
	5.120 MHz	18.0	5.0	300-5004-ND	.91	.78	.65	CSA309-5.120MABJ
	5.5296 MHz	18.0	5.0	300-5005-ND	.91	.78	.65	CSA309-5.5296MABJ
	6.000 MHz	18.0	5.0	300-5006-ND	.91	.78	.65	CSA309-6.000MABJ
	6.144 MHz	18.0	5.0	300-5007-ND	.91	.78	.65	CSA309-6.144MABJ
	7.3728 MHz	18.0	5.0	300-5008-ND	.91	.78	.65	CSA309-7.3728MABJ
	7.680 MHz	18.0	5.0	300-5009-ND	.91	.78	.65	CSA309-7.680MABJ
	8.000 MHz	18.0	5.0	300-5010-ND	.91	.78	.65	CSA309-8.000MABJ
	8.000156 MHz	18.0	5.0	300-5011-ND	.91	.78	.65	CSA309-8.000156MABJ
	8.192 MHz	18.0	5.0	300-5012-ND	.91	.78	.65	CSA309-8.192MABJ
	9.216 MHz	18.0	5.0	300-5013-ND	.91	.78	.65	CSA309-9.216MABJ
	9.600 MHz	18.0	5.0	300-5014-ND	.91	.78	.65	CSA309-9.600MABJ
	9.8304 MHz	18.0	5.0	300-5015-ND	.91	.78	.65	CSA309-9.8304MABJ
	10.000 MHz	18.0	5.0	300-5016-ND	.91	.78	.65	CSA309-10.000MABJ
	10.240 MHz	18.0	5.0	300-5017-ND	.91	.78	.65	CSA309-10.240MABJ
	11.000 MHz	18.0	5.0	300-5018-ND	.91	.78	.65	CSA309-11.000MABJ
	11.0592 MHz	18.0	5.0	300-5019-ND	.91	.78	.65	CSA309-11.0592MABJ
	11.2896 MHz	18.0	5.0	300-5020-ND	.91	.78	.65	CSA309-11.2896MABJ
	12.000 MHz	18.0	5.0	300-5021-ND	.91	.78	.65	CSA309-12.000MABJ
	12.288 MHz	18.0	5.0	300-5022-ND	.91	.78	.65	CSA309-12.288MABJ
	12.352 MHz	18.0	5.0	300-5023-ND	.91	.78	.65	CSA309-12.352MABJ
	12.500 MHz	18.0	5.0	300-5024-ND	.91	.78	.65	CSA309-12.500MABJ
	13.500 MHz	18.0	5.0	300-5025-ND	.91	.78	.65	CSA309-13.500MABJ
	14.31818 MHz	18.0	5.0	300-5026-ND	.91	.78	.65	CSA309-14.31818MABJ
	14.7456 MHz	18.0	5.0	300-5027-ND	.91	.78	.65	CSA309-14.7456MABJ
	15.000 MHz	18.0	5.0	300-5028-ND	.91	.78	.65	CSA309-15.000MABJ
	15.360 MHz	18.0	5.0	300-5029-ND	.91	.78	.65	CSA309-15.360MABJ
	16.000 MHz	18.0	5.0	300-5030-ND	.91	.78	.65	CSA309-16.000MABJ
	16.000312 MHz	18.0	5.0	300-5031-ND	.91	.78	.65	CSA309-16.000312MABJ
	16.257 MHz	18.0	5.0	300-5032-ND	.91	.78	.65	CSA309-16.257MABJ
	16.384 MHz	18.0	5.0	300-5033-ND	.91	.78	.65	CSA309-16.384MABJ
	16.667 MHz	18.0	5.0	300-5034-ND	.91	.78	.65	CSA309-16.667MABJ
	16.9344 MHz	18.0	5.0	300-5035-ND	.91	.78	.65	CSA309-16.9344MABJ
	17.734475 MHz	18.0	5.0	300-5036-ND	.91	.78	.65	CSA309-17.734475MABJ
	18.000 MHz	18.0	5.0	300-5037-ND	.91	.78	.65	CSA309-18.000MABJ
	18.432 MHz	18.0	5.0	300-5038-ND	.91	.78	.65	CSA309-18.432MABJ
	18.869 MHz	18.0	5.0	300-5039-ND	.91	.78	.65	CSA309-18.869MABJ
	19.6608 MHz	18.0	5.0	300-5040-ND	.91	.78	.65	CSA309-19.6608MABJ
	20.000 MHz	18.0	5.0	300-5041-ND	.91	.78	.65	CSA309-20.000MABJ
	20.480 MHz	18.0	5.0	300-5042-ND	.91	.78	.65	CSA309-20.480MABJ
	22.1184 MHz	18.0	5.0	300-5043-ND	.91	.78	.65	CSA309-22.1184MABJ
	24.000 MHz	18.0	5.0	300-5044-ND	.91	.78	.65	CSA309-24.000MABJ
	24.576 MHz	18.0	5.0	300-5045-ND	.91	.78	.65	CSA309-24.576MABJ
	25.000 MHz	18.0	5.0	300-5046-ND	.91	.78	.65	CSA309-25.000MABJ
	25.175 MHz	18.0	5.0	300-5047-ND	.91	.78	.65	CSA309-25.175MABJ
	27.000 MHz	18.0	5.0	300-5048-ND	.91	.78	.65	CSA309-27.000MABJ
	28.000 MHz	18.0	5.0	300-5049-ND	.91	.78	.65	CSA309-28.000MABJ
	28.322 MHz	18.0	5.0	300-5050-ND	.91	.78	.65	CSA309-28.322MABJ
	28.63636 MHz	18.0	5.0	300-5051-ND	.91	.78	.65	CSA309-28.63636MABJ
	29.4912 MHz	18.0	5.0	300-5052-ND	.91	.78	.65	CSA309-29.4912MABJ
	30.000 MHz	18.0	5.0	300-5053-ND	.91	.78	.65	CSA309-30.000MABJ
	32.000 MHz	18.0	5.0	300-5054-ND	.91	.78	.65	CSA309-32.000MABJ
	32.768 MHz	18.0	5.0	300-5055-ND	.91	.78	.65	CSA309-32.768MABJ
	33.000 MHz	18.0	5.0	300-5056-ND	.91	.78	.65	CSA309-33.000MABJ
	33.3333 MHz	18.0	5.0	300-5057-ND	.91	.78	.65	CSA309-33.3333MABJ
	33.8688 MHz	18.0	5.0	300-5058-ND	.91	.78	.65	CSA309-33.8688MABJ
	40.000 MHz	18.0	5.0	300-5060-ND	.91	.78	.65	CSA309-40.000MABJ
	48.000 MHz	18.0	5.0	300-5061-ND	.91	.78	.65	CSA309-48.000MABJ
	49.152 MHz	18.0	5.0	300-5062-ND	.91	.78	.65	CSA309-49.152MABJ
	50.000 MHz	18.0	5.0	300-5063-ND	.91	.78	.65	CSA309-50.000MABJ
	53.125 MHz	18.0	5.0	300-5064-ND	.91	.78	.65	CSA309-53.125MABJ
	60.000 MHz	18.0	5.0	300-5065-ND	.91	.78	.65	CSA309-60.000MABJ
	64.000 MHz	18.0	5.0	300-5066-ND	.91	.78	.65	CSA309-64.000MABJ
	66.6666 MHz	18.0	5.0	300-5067-ND	.91	.78	.65	CSA309-66.6666MABJ

CITIZEN™ Crystals

CMR200T Series

SPECIFICATIONS:

- **Frequency Tolerance:** ±20ppm
- **Operating Temperature Range:** -40°C to +85°C
- **Storage Temperature Range:** -55°C to +125°C
- **Shunt Capacitance:** 1.35pF
- **Drive Level:** 1µW Max.
- **Insulation Resistance:** 500MΩ Min.
- **Aging (First Year):** ±3ppm Max.

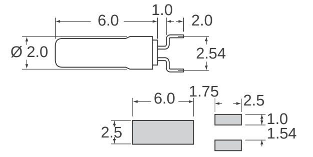


Freq. (KHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
32.768	12.5	300-2065-1-ND	.81	.69	.52	300-2065-2-ND	322.00/M	CMR200TB32.768KDZFTR
	6	300-2066-1-ND	.81	.69	.52	300-2066-2-ND	322.00/M	CMR200TB32.768KDZBTR

CMR250T Series

SPECIFICATIONS:

- **Frequency Tolerance:** ±30ppm
- **Operating Temperature Range:** -40°C to +85°C
- **Storage Temperature Range:** -55°C to +125°C
- **Load Capacitance:** 12.5pF
- **Shunt Capacitance:** 0.8 to 1.7pF
- **Drive Level:** 1µW Max.
- **Insulation Resistance:** 500MΩ Min.
- **Aging (First Year):** ±5ppm Max.

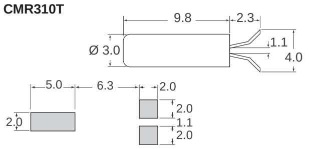


Frequency (KHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
32.000	300-2057-1-ND	1.75	1.50	1.13	300-2057-2-ND	700.00/M	CMR250TB32.000KAZFTR
40.000	300-2058-1-ND	1.75	1.50	1.13	300-2058-2-ND	700.00/M	CMR250TB40.000KAZFTR
60.000	300-2059-1-ND	1.75	1.50	1.13	300-2059-2-ND	700.00/M	CMR250TB60.000KAZFTR
65.535	300-2060-1-ND	1.75	1.50	1.13	300-2060-2-ND	700.00/M	CMR250TB65.535KAZFTR
75.000	300-2061-1-ND	1.75	1.50	1.13	300-2061-2-ND	700.00/M	CMR250TB75.000KAZFTR
76.800	300-2062-1-ND	1.75	1.50	1.13	300-2062-2-ND	700.00/M	CMR250TB76.8KAZFTR
96.000	300-2063-1-ND	1.75	1.50	1.13	300-2063-2-ND	700.00/M	CMR250TB96.000KAZFTR
100.000	300-2064-1-ND	1.75	1.50	1.13	300-2064-2-ND	700.00/M	CMR250TB100.000KAZFTR

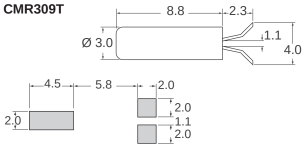
CMR310T and CMR309T Series

SPECIFICATIONS: • **Frequency Tolerance:** ±30ppm at 25°C • **Frequency Temperature Characteristics:** ±50ppm (-10° to +60°C) • **Operating Temperature Range:** -40°C to +85°C • **Storage Temperature Range:** -55°C to +125°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 5.0pF • **Drive Level:** 50µW to 100µW • **Insulation Resistance:** 500MΩ Min. • **Aging (First Year):** ±5ppm Max. • **Mode of Oscillation:** Fundamental: 3.579545MHz to 27.000MHz; Third Overtone: 32.000MHz to 66.6660MHz

CMR310T



CMR309T



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
CMR310T Series							
3.5795450	300-2067-1-ND	1.05	.90	.68	300-2067-2-ND	525.00	CMR310T3.579545MABJTR
3.6864000	300-2068-1-ND	1.05	.90	.68	300-2068-2-ND	525.00	CMR310T3.6864MABJTR
CMR309T Series							
4.0000000	300-2069-1-ND	1.05	.90	.68	300-2069-2-ND	525.00	CMR309T4.000MABJTR
4.0960000	300-2070-1-ND	1.05	.90	.68	300-2070-2-ND	525.00	CMR309T4.096MABJTR
4.9152000	300-2071-1-ND	1.05	.90	.68	300-2071-2-ND	525.00	CMR309T4.9152MABJTR
5.0000000	300-2072-1-ND	1.05	.90	.68	300-2072-2-ND	525.00	CMR309T5.000MABJTR
6.0000000	300-2073-1-ND	1.05	.90	.68	300-2073-2-ND	525.00	CMR309T6.000MABJTR
7.3728000	300-2074-1-ND	1.05	.90	.68	300-2074-2-ND	525.00	CMR309T7.3728MABJTR
8.0000000	300-2075-1-ND	1.05	.90	.68	300-2075-2-ND	525.00	CMR309T8.000MABJTR
9.8304000	300-2076-1-ND	1.05	.90	.68	300-2076-2-ND	525.00	CMR309T9.8304MABJTR
10.0000000	300-2077-1-ND	1.05	.90	.68	300-2077-2-ND	525.00	CMR309T10.000MABJTR
11.0592000	300-2078-1-ND	1.05	.90	.68	300-2078-2-ND	525.00	CMR309T11.0592MABJTR
12.0000000	300-2079-1-ND	1.05	.90	.68	300-2079-2-ND	525.00	CMR309T12.000MABJTR
12.2880000	300-2080-1-ND	1.05	.90	.68	300-2080-2-ND	525.00	CMR309T12.288MABJTR
14.3181800	300-2081-1-ND	1.05	.90	.68	300-2081-2-ND	525.00	CMR309T14.31818MABJTR
16.0000000	300-2082-1-ND	1.05	.90	.68	300-2082-2-ND	525.00	CMR309T16.000MABJTR
16.3840000	300-2083-1-ND	1.05	.90	.68	300-2083-2-ND	525.00	CMR309T16.384MABJTR
18.4320000	300-2084-1-ND	1.05	.90	.68	300-2084-2-ND	525.00	CMR309T18.432MABJTR
22.1184000	300-2085-1-ND	1.05	.90	.68	300-2085-2-ND	525.00	CMR309T22.1184MABJTR
24.0000000	300-2086-1-ND	1.05	.90	.68	300-2086-2-ND	525.00	CMR309T24.000MABJTR
24.5760000	300-2087-1-ND	1.05	.90	.68	300-2087-2-ND	525.00	CMR309T24.576MABJTR
27.0000000	300-2088-1-ND	1.05	.90	.68	300-2088-2-ND	525.00	CMR309T27.000MABJTR
32.0000000	300-2089-1-ND	1.05	.90	.68	300-2089-2-ND	525.00	CMR309T32.000MABJTR
40.0000000	300-2090-1-ND	1.05	.90	.68	300-2090-2-ND	525.00	CMR309T40.000MABJTR
48.0000000	300-2091-1-ND	1.05	.90	.68	300-2091-2-ND	525.00	CMR309T48.000MABJTR
49.1520000	300-2092-1-ND	1.05	.90	.68	300-2092-2-ND	525.00	CMR309T49.152MABJTR
50.0000000	300-2093-1-ND	1.05	.90	.68	300-2093-2-ND	525.00	CMR309T50.000MABJTR
60.0000000	300-2094-1-ND	1.05	.90	.68	300-2094-2-ND	525.00	CMR309T60.000MABJTR
66.6660000	300-2095-1-ND	1.05	.90	.68	300-2095-2-ND	525.00	CMR309T66.666MABJTR

CM100S, CM200S, and CM202 Series Crystals 32.768KHz

SPECIFICATIONS:

• **Frequency Tolerance:** ±20ppm • **Operating Temperature Range:** -40°C to +85°C • **Storage Temperature Range:** -55°C to +125°C • **Equivalent Series Resistance:** 50kΩ Max. • **Drive Level:** 1µW Max. • **Insulation Resistance:** 500MΩ Min. • **Aging (First Year)** ±3ppm Max.

Fig. 1 - CM100S Series

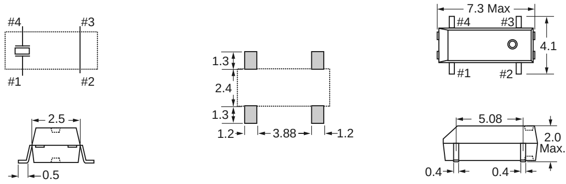


Fig. 2 - CM200S Series

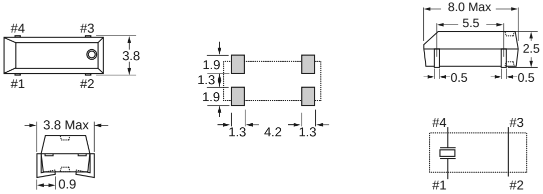


Fig. 3 - CM202 Series

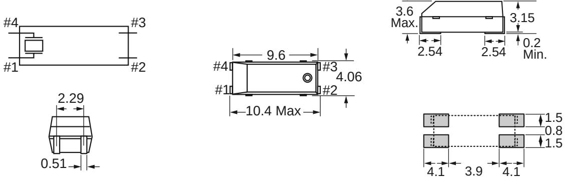
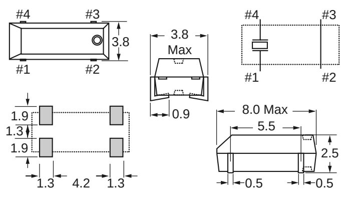


Fig.	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Citizen Part No.
1	12.5	300-1007-1-ND	1.70	1.46	1.10	300-1007-2-ND	885.00/M	CM100S32.768KDZFT
2	12.5	300-1004-1-ND	1.19	1.02	.77	300-1004-2-ND	618.98/M	CM200S32.768KDZFT
	6	300-2034-1-ND	1.05	.90	.68	300-2034-2-ND	492.00/M	CM200S32.768KDZBTR
3	12.5	300-1006-1-ND	1.29	1.11	.83	—	—	CM202-32.768KDZFT

CM250S Series Quartz Crystals

SPECIFICATIONS:

- **Frequency Tolerance:** ±50ppm
- **Operating Temperature Range:** -40°C to +85°C
- **Storage Temperature Range:** -55°C to +125°C
- **Load Capacitance:** 12.5pF
- **Shunt Capacitance:** 0.8 to 1.7pF
- **Drive Level:** 1µW Max.
- **Insulation Resistance:** ±500MΩ Min.
- **Aging (First Year):** ±5ppm Max.



Frequency (KHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 3,000	Citizen Part No.
32.000	300-2007-1-ND	1.65	1.35	1.20	300-2007-2-ND	864.00/M	CM250S32.000KAZFT
40.000	300-2015-1-ND	1.65	1.35	1.20	300-2015-2-ND	864.00/M	CM250S40.000KAZFT
60.000	300-2018-1-ND	1.65	1.35	1.20	300-2018-2-ND	864.00/M	CM250S60.000KAZFT
60.005	300-2019-1-ND	1.65	1.35	1.20	300-2019-2-ND	864.00/M	CM250S60.005KAZFT
65.536	300-2020-1-ND	1.65	1.35	1.20	300-2020-2-ND	864.00/M	CM250S65.536KAZFT
75.000	300-2021-1-ND	1.65	1.35	1.20	300-2021-2-ND	864.00/M	CM250S75.000KAZFT
76.790	300-2022-1-ND	1.65	1.35	1.20	300-2022-2-ND	864.00/M	CM250S76.790KAZFT
76.800	300-2023-1-ND	1.65	1.35	1.20	300-2023-2-ND	864.00/M	CM250S76.800KAZFT
76.810	300-2024-1-ND	1.65	1.35	1.20	300-2024-2-ND	864.00/M	CM250S76.810KAZFT
77.500	300-2025-1-ND	1.65	1.35	1.20	300-2025-2-ND	864.00/M	CM250S77.500KAZFT
77.503	300-2026-1-ND	1.65	1.35	1.20	300-2026-2-ND	864.00/M	CM250S77.503KAZFT
96.000	300-2029-1-ND	1.65	1.35	1.20	300-2029-2-ND	864.00/M	CM250S96.000KAZFT
100.000	300-2030-1-ND	1.65	1.35	1.20	300-2030-2-ND	864.00/M	CM250S100.000KAZFT

CITIZEN™ Quartz Crystals

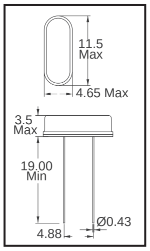
HC49US Series Through-Hole Crystals

SPECIFICATIONS:

- **Frequency Tolerance:** ±50ppm
- **Operating Temperature Range:** -20°C to +70°C
- **Storage Temperature Range:** -40°C to +85°C
- **Load Capacitance:** 18pF
- **Shunt Capacitance:** 7.0pF Max.
- **Drive Level:** 100μW
- **Insulation Resistance:** 500MΩ Min.
- **Aging (first year):** ±5ppm Max.

Equivalent Series Resistance (ESR, R1) (Ohm Max.)

Frequency	ESR
3.5MHz ≤ fo < 4.0MHz	200
4.0MHz ≤ fo < 6.0MHz	150
6.0MHz ≤ fo < 10.0MHz	100
10.0MHz ≤ fo < 14.0MHz	80
14.0MHz ≤ fo ≤ 25.0MHz	50



Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
3.579545	300-6001-ND	.88	.75	.69	HC49US3.579545MABJ
3.6864	300-6002-ND	.88	.75	.69	HC49US3.6864MABJ
4.000	300-6003-ND	.88	.75	.69	HC49US4.000MABJ
4.032	300-6004-ND	.88	.75	.69	HC49US4.032MABJ
4.096	300-6005-ND	.88	.75	.69	HC49US4.096MABJ
4.194304	300-6006-ND	.88	.75	.69	HC49US4.194304MABJ
4.433619	300-6007-ND	.88	.75	.69	HC49US4.433619MABJ
4.9152	300-6008-ND	.88	.75	.69	HC49US4.9152MABJ
5.000	300-6009-ND	.88	.75	.69	HC49US5.000MABJ
5.0688	300-6010-ND	.88	.75	.69	HC49US5.0688MABJ
5.9904	300-6011-ND	.88	.75	.69	HC49US5.9904MABJ
6.000	300-6012-ND	.88	.75	.69	HC49US6.000MABJ
6.144	300-6013-ND	.88	.75	.69	HC49US6.144MABJ
6.500	300-6014-ND	.88	.75	.69	HC49US6.500MABJ
7.3728	300-6015-ND	.88	.75	.69	HC49US7.3728MABJ
7.680	300-6016-ND	.88	.75	.69	HC49US7.680MABJ
8.000	300-6017-ND	.88	.75	.69	HC49US8.000MABJ
9.000	300-6018-ND	.88	.75	.69	HC49US9.000MABJ
9.216	300-6019-ND	.88	.75	.69	HC49US9.216MABJ
9.8304	300-6020-ND	.88	.75	.69	HC49US9.8304MABJ
10.000	300-6021-ND	.88	.75	.69	HC49US10.000MABJ
10.240	300-6022-ND	.88	.75	.69	HC49US10.240MABJ
11.000	300-6023-ND	.88	.75	.69	HC49US11.00MABJ
11.0592	300-6024-ND	.88	.75	.69	HC49US11.0592MABJ
11.520	300-6025-ND	.88	.75	.69	HC49US11.520MABJ
12.000	300-6027-ND	.88	.75	.69	HC49US12.000MABJ
12.000393	300-6028-ND	.88	.75	.69	HC49US12.000393MABJ
12.288	300-6029-ND	.88	.75	.69	HC49US12.288MABJ
13.500	300-6061-ND *NEW!*	.88	.75	.69	HC49US13.500MABJ
14.31818	300-6030-ND	.88	.75	.69	HC49US14.31818MABJ
14.7456	300-6031-ND	.88	.75	.69	HC49US14.7456MABJ
15.000	300-6032-ND	.88	.75	.69	HC49US15.000MABJ
15.360	300-6033-ND	.88	.75	.69	HC49US15.360MABJ
16.000	300-6034-ND	.88	.75	.69	HC49US16.000MABJ
16.000312	300-6035-ND	.88	.75	.69	HC49US16.000312MABJ
16.257	300-6036-ND	.88	.75	.69	HC49US16.257MABJ
16.384	300-6037-ND	.88	.75	.69	HC49US16.384MABJ
17.734475	300-6038-ND	.88	.75	.69	HC49US17.734475MABJ
18.000	300-6039-ND	.88	.75	.69	HC49US18.000MABJ
18.432	300-6040-ND	.88	.75	.69	HC49US18.432MABJ
19.6608	300-6041-ND	.88	.75	.69	HC49US19.6608MABJ
20.000	300-6042-ND	.88	.75	.69	HC49US20.000MABJ
21.47727	300-6043-ND	.88	.75	.69	HC49US21.47727MABJ
22.1184	300-6044-ND	.88	.75	.69	HC49US22.1184MABJ
24.000	300-6045-ND	.88	.75	.69	HC49US24.000MABJ
24.00014	300-6046-ND	.88	.75	.69	HC49US24.00014MABJ
24.576	300-6047-ND	.88	.75	.69	HC49US24.576MABJ
25.000	300-6048-ND	.88	.75	.69	HC49US25.000MABJ
25.175	300-6049-ND	.88	.75	.69	HC49US25.175MABJ
27.000	300-6050-ND	.88	.75	.69	HC49US27.000MABJ
28.224	300-6051-ND	.88	.75	.69	HC49US28.224MABJ
28.63636	300-6052-ND	.88	.75	.69	HC49US28.63636MABJ
32.000	300-6053-ND	.88	.75	.69	HC49US32.000MABJ
33.8688	300-6056-ND	.88	.75	.69	HC49US33.8688MABJ
40.000	300-6057-ND	.88	.75	.69	HC49US40.000MABJ
48.000	300-6058-ND	.88	.75	.69	HC49US48.000MABJ
50.000	300-6060-ND	.88	.75	.69	HC49US50.000MABJ

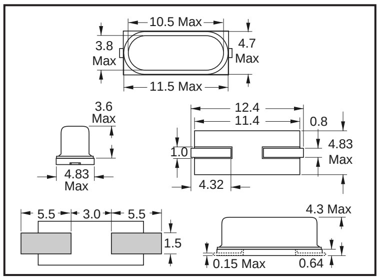
HCM49 Series Surface Mount Crystals

SPECIFICATIONS:

- **Frequency Tolerance:** ±50ppm
- **Operating Temperature Range:** -40°C to +85°C
- **Storage Temperature Range:** -55°C to +125°C
- **Load Capacitance:** 18pF
- **Shunt Capacitance:** 7.0pF Max.
- **Drive Level:** 100μW
- **Insulation Resistance:** 500MΩ Min.
- **Aging (first year):** ±5ppm Max.

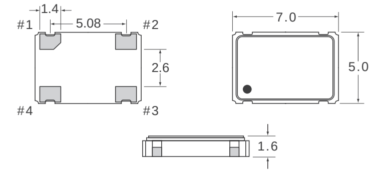
Equivalent Series Resistance (ESR, R1) (Ohm Max.)

Frequency	ESR
3.5MHz ≤ fo < 4.0MHz	200
4.0MHz ≤ fo < 6.0MHz	150
6.0MHz ≤ fo < 10.0MHz	100
10.0MHz ≤ fo < 14.0MHz	80
14.0MHz ≤ fo ≤ 25.0MHz	50



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
3.579545	300-6101-1-ND	1.13	.98	.85	300-6101-2-ND	525.00	HCM49-3.579545MABJT
3.6864	300-6102-1-ND	1.13	.98	.85	300-6102-2-ND	525.00	HCM49-3.6864MABJT
4.000	300-6103-1-ND	1.13	.98	.85	300-6103-2-ND	525.00	HCM49-4.000MABJT
4.032	300-6104-1-ND	1.13	.98	.85	300-6104-2-ND	525.00	HCM49-4.032MABJT
4.096	300-6105-1-ND	1.13	.98	.85	300-6105-2-ND	525.00	HCM49-4.096MABJT
4.194304	300-6106-1-ND	1.13	.98	.85	300-6106-2-ND	525.00	HCM49-4.194304MABJT
4.433619	300-6107-1-ND	1.13	.98	.85	300-6107-2-ND	525.00	HCM49-4.433619MABJT
4.9152	300-6108-1-ND	1.13	.98	.85	300-6108-2-ND	525.00	HCM49-4.9152MABJT
5.000	300-6109-1-ND	1.13	.98	.85	300-6109-2-ND	525.00	HCM49-5.000MABJT
5.0688	300-6110-1-ND	1.13	.98	.85	300-6110-2-ND	525.00	HCM49-5.0688MABJT
5.9904	300-6111-1-ND	1.13	.98	.85	300-6111-2-ND	525.00	HCM49-5.9904MABJT
6.000	300-6112-1-ND	1.13	.98	.85	300-6112-2-ND	525.00	HCM49-6.000MABJT
6.144	300-6113-1-ND	1.13	.98	.85	300-6113-2-ND	525.00	HCM49-6.144MABJT
6.500	300-6114-1-ND	1.13	.98	.85	300-6114-2-ND	525.00	HCM49-6.500MABJT
7.3728	300-6115-1-ND	1.13	.98	.85	300-6115-2-ND	525.00	HCM49-7.3728MABJT
7.680	300-6116-1-ND	1.13	.98	.85	300-6116-2-ND	525.00	HCM49-7.680MABJT
8.000	300-6117-1-ND	1.13	.98	.85	300-6117-2-ND	525.00	HCM49-8.000MABJT
9.000	300-6118-1-ND	1.13	.98	.85	300-6118-2-ND	525.00	HCM49-9.000MABJT
9.8304	300-6120-1-ND	1.13	.98	.85	300-6120-2-ND	525.00	HCM49-9.8304MABJT
10.000	300-6121-1-ND	1.13	.98	.85	300-6121-2-ND	525.00	HCM49-10.000MABJT
10.240	300-6122-1-ND	1.13	.98	.85	300-6122-2-ND	525.00	HCM49-10.240MABJT
11.000	300-6123-1-ND	1.13	.98	.85	300-6123-2-ND	525.00	HCM49-11.000MABJT
11.0592	300-6124-1-ND	1.13	.98	.85	300-6124-2-ND	525.00	HCM49-11.0592MABJT
11.520	300-6125-1-ND	1.13	.98	.85	300-6125-2-ND	525.00	HCM49-11.520MABJT
12.000	300-6127-1-ND	1.13	.98	.85	300-6127-2-ND	525.00	HCM49-12.000MABJT
12.000393	300-6128-1-ND	1.13	.98	.85	300-6128-2-ND	525.00	HCM49-12.000393MABJT
12.288	300-6129-1-ND	1.13	.98	.85	300-6129-2-ND	525.00	HCM49-12.288MABJT
13.500	300-6162-1-ND *NEW!*	1.13	.98	.85	300-6162-2-ND *NEW!*	525.00	HCM49-13.500MABJT
14.31818	300-6130-1-ND	1.13	.98	.85	300-6130-2-ND	525.00	HCM49-14.31818MABJT
14.7456	300-6131-1-ND	1.13	.98	.85	300-6131-2-ND	525.00	HCM49-14.7456MABJT
15.000	300-6132-1-ND	1.13	.98	.85	300-6132-2-ND	525.00	HCM49-15.000MABJT
15.360	300-6133-1-ND	1.13	.98	.85	300-6133-2-ND	525.00	HCM49-15.360MABJT
16.000	300-6134-1-ND	1.13	.98	.85	300-6134-2-ND	525.00	HCM49-16.000MABJT
16.000312	300-6135-1-ND	1.13	.98	.85	300-6135-2-ND	525.00	HCM49-16.000312MABJT
16.257	300-6136-1-ND	1.13	.98	.85	300-6136-2-ND	525.00	HCM49-16.257MABJT
16.384	300-6137-1-ND	1.13	.98	.85	300-6137-2-ND	525.00	HCM49-16.384MABJT
17.734475	300-6138-1-ND	1.13	.98	.85	300-6138-2-ND	525.00	HCM49-17.734475MABJT
18.000	300-6139-1-ND	1.13	.98	.85	300-6139-2-ND	525.00	HCM49-18.000MABJT
18.432	300-6140-1-ND	1.13	.98	.85	300-6140-2-ND	525.00	HCM49-18.432MABJT
19.6608	300-6141-1-ND	1.13	.98	.85	300-6141-2-ND	525.00	HCM49-19.6608MABJT
20.000	300-6142-1-ND	1.13	.98	.85	300-6142-2-ND	525.00	HCM49-20.000MABJT
21.47727	300-6143-1-ND	1.13	.98	.85	300-6143-2-ND	525.00	HCM49-21.47727MABJT
22.1184	300-6144-1-ND	1.13	.98	.85	300-6144-2-ND	525.00	HCM49-22.1184MABJT
24.000	300-6145-1-ND	1.13	.98	.85	300-6145-2-ND	525.00	HCM49-24.000MABJT
24.00014	300-6146-1-ND	1.13	.98	.85	300-6146-2-ND	525.00	HCM49-24.00014MABJT
24.576	300-6147-1-ND	1.13	.98	.85	300-6147-2-ND	525.00	HCM49-24.576MABJT
25.000	300-6148-1-ND	1.13	.98	.85	300-6148-2-ND	525.00	HCM49-25.000MABJT
25.175	300-6149-1-ND	1.13	.98	.85	300-6149-2-ND	525.00	HCM49-25.175MABJT
27.000	300-6150-1-ND	1.13	.98	.85	300-6150-2-ND	525.00	HCM49-27.000MABJT
28.63636	300-6152-1-ND	1.13	.98	.85	300-6152-2-ND	525.00	HCM49-28.63636MABJT
32.000	300-6153-1-ND	1.13	.98	.85	300-6153-2-ND	525.00	HCM49-32.000MABJT
33.8688	300-6156-1-ND	1.13	.98	.85	300-6156-2-ND	525.00	HCM49-33.8688MABJT
40.000	300-6157-1-ND	1.13	.98	.85	300-6157-2-ND	525.00	HCM49-40.000MABJT
48.000	300-6158-1-ND	1.13	.98	.85	300-6158-2-ND	525.00	HCM49-48.000MABJT
49.152	300-6159-1-ND	1.13	.98	.85	300-6159-2-ND	525.00	HCM49-49.152MABJT
50.000	300-6160-1-ND	1.13	.98	.85	300-6160-2-ND	525.00	HCM49-50.000MABJT

CSX750P Series Programmable Oscillator



Pin	Function
1	OE, ST
2	Ground
3	Output
4	VDD

How to Select Base Number:

# 1 = Select Supply Voltage, Output and Function
# 2 = Select Frequency Stability / Operating Temperature
# 3 = Select Packaging *(leave last two boxes blank for Tube packaging).*

Call Digi-Key with your Selected Base Part Number, and a Sales Representative will enter your desired frequency.

Parts come marked with Manufacture Data Lot Code only.

Once programmed, parts are non-cancelable, non-returnable!

Example Part Number:

CSX750 ☐☐☐☐☐ -ND

#1	Supply Voltage	Output	Function
PD	5.0	CMOS	Standby
PC	5.0	CMOS	Output Enable
PJ	3.3	CMOS	Standby
PB	3.3	CMOS	Output Enable
PK	5.0	TTL	Standby
PT	5.0	TTL	Output Enable

#2	Frequency Stability/ Operating Temperature
C	±100ppm @ -20°C to +70°C
B	±50ppm @ -20°C to +70°C
F	±100ppm @ -40°C to +85°C

Frequency:
3.3V = 1.000 ~ 100.000 MHz
5.0V = 1.000 ~ 125.000 MHz

#3	Packaging
TR	Tape and Reel

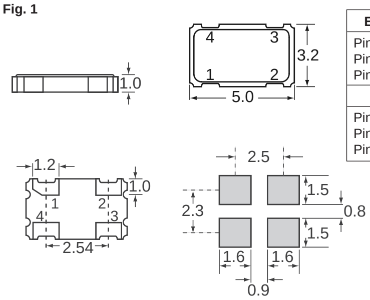
For Tube packaging, leave last two boxes blank.

Digi-Key Base Part No.	Tube Price Each 1	10	50	Digi-Key Base Part No.	Tape & Reel Pricing 100	500	1,000
CSX750☐☐☐-ND	3.60	3.33	2.97	CSX750☐☐☐☐☐-ND	270.00	1001.00	1800.00
Blank Oscillator 5x7mm SMD							
CSX-750P1D-ND	3.60	3.33	2.97	—	—	—	—

Programmable Oscillators

The ability to create a custom oscillator to certain specifications provides engineers with a great deal of flexibility. They allow for last minute changes in circuitry or design. ECS Blanks are “Twice Programmable”, this is a cost saving feature which allows you to reprogram the same part to different specifications. ECS Programmable Oscillators are available in four different package styles: 3.2 x 5.0 SMD, 5.0 x 7.5 SMD, Half Size Dip, and Full Size Dip Package. Frequency ranges are available from 1Mhz to 125Mhz in 3.3V, and 1Mhz to 150Mhz in 5V*, and in ±50ppm**, and ±100ppm Frequency Stability Options.
*(3.2 x 5.0 SMD package-frequency range 1Mhz to 125Mhz in 5V.) **±50ppm not available in Extended Range Option.

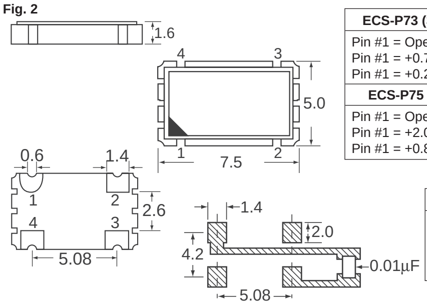
Fig. 1



ECS-P53 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +0.7V Min.	#3 = Output
Pin #1 = +0.2V Max.	#3 = High Impedance
ECS-P55 (5V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +2.0V Min.	#3 = Output
Pin #1 = +0.8V Max.	#3 = High Impedance

Pin Connections	
#1	Tri-State
#2	Gnd
#3	Output
#4	Vcc

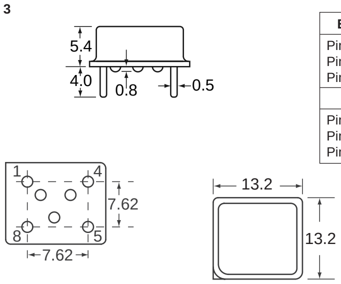
Fig. 2



ECS-P73 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +0.7V Min.	#3 = Output
Pin #1 = +0.2V Max.	#3 = High Impedance
ECS-P75 (5V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +2.0V Min.	#3 = Output
Pin #1 = +0.8V Max.	#3 = High Impedance

Pin Connections	
#1	Tri-State
#2	Gnd
#3	Output
#4	Vcc

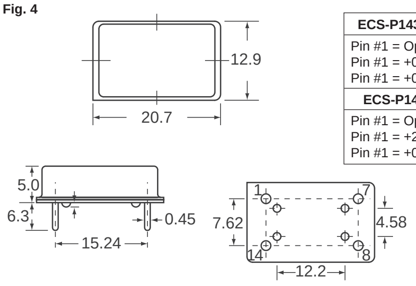
Fig. 3



ECS-P83 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +0.7V Min.	#3 = Output
Pin #1 = +0.2V Max.	#3 = High Impedance
ECS-P85 (5V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +2.0V Min.	#3 = Output
Pin #1 = +0.8V Max.	#3 = High Impedance

Pin Connections	
#1	Tri-State
#4	Gnd
#5	Output
#8	Vcc

Fig. 4



ECS-P143 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +0.7V Min.	#3 = Output
Pin #1 = +0.2V Max.	#3 = High Impedance
ECS-P145 (5V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +2.0V Min.	#3 = Output
Pin #1 = +0.8V Max.	#3 = High Impedance

Pin Connections	
#1	Tri-State
#7	Gnd
#8	Output
#14	Vcc

Example Part Number: **ECS-P ☐ ☐ - ☐ -ND**

#1	**Package**
5	3.2 x 5.0 SMD
7	5.0 x 7.5 SMD
8	8 Pin Dip
14	14 Pin Dip

#2	**Voltage**
3	3.3 Volt
5	5.0 Volt

#3	**Stability/Temp.**
A	±100ppm / -10 to +70°C
B	±50ppm / -10 to +70°C
AN	±100ppm / -40 to +85°C

How To Select Base Number:

#1 = Select Package
#2 = Select Voltage
#3 = Select Stability/Temperature

Call Digi-Key Corporation with your Selected Base Part Number, and a Sales Representative will enter your desired frequency.

Fig.	Digi-Key* Base Part No.	Price Each 1	10	50	100
1	ECS-P53-A-ND ECS-P53-B-ND ECS-P53-AN-ND	8.40 8.40 8.40	7.77 7.77 7.77	6.93 6.93 6.93	6.30 6.30 6.30
1	ECS-P55-A-ND ECS-P55-B-ND ECS-P55-AN-ND	8.40 8.40 8.40	7.77 7.77 7.77	6.93 6.93 6.93	6.30 6.30 6.30
2	ECS-P73-A-ND ECS-P73-B-ND ECS-P73-AN-ND	5.16 5.16 5.16	4.78 4.78 4.78	4.26 4.26 4.26	3.87 3.87 3.87
2	ECS-P75-A-ND ECS-P75-B-ND ECS-P75-AN-ND	5.16 5.16 5.16	4.78 4.78 4.78	4.26 4.26 4.26	3.87 3.87 3.87

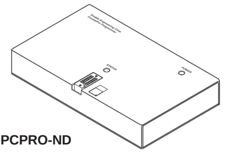
Fig.	Digi-Key* Base Part No.	Price Each 1	10	50	100
3	ECS-P83-A-ND ECS-P83-B-ND ECS-P83-AN-ND	5.16 5.16 5.16	4.78 4.78 4.78	4.26 4.26 4.26	3.87 3.87 3.87
3	ECS-P85-A-ND ECS-P85-B-ND ECS-P85-AN-ND	5.16 5.16 5.16	4.78 4.78 4.78	4.26 4.26 4.26	3.87 3.87 3.87
4	ECS-P143-A-ND ECS-P143-B-ND ECS-P143-AN-ND	5.16 5.16 5.16	4.78 4.78 4.78	4.26 4.26 4.26	3.87 3.87 3.87
4	ECS-P145-A-ND ECS-P145-B-ND ECS-P145-AN-ND	5.16 5.16 5.16	4.78 4.78 4.78	4.26 4.26 4.26	3.87 3.87 3.87

*Programmable parts are non-cancelable and non-returnable!

CrystalPro Oscillator Programmer

Designed specifically to program oscillator devices, the CrystalPro is a fast, accurate, low cost solution for your low to mid volume programming needs. Software and firmware upgrades can be downloaded off the web to support future parts from manufacturers and new technologies such as programmable TCXO and VCXO devices. The user-friendly CrystalWindow graphical interface insures complete and valid part specification and fast part type switching. Attaches to any Windows PC via standard serial port. **FEATURES:** • Fast - average programming is less than two seconds. • Accurate - frequency at time of programming cycle is within 5ppm. • Simple - just select part number, type in desired frequency and click PROGRAM. • Flexible - handling devices up to 250MHz and LVTTL/TTL/CMOS/ECL/PECL I/O technologies, the CrystalPro is designed to handle tomorrow's technologies as they become available.

PC Based Programmer



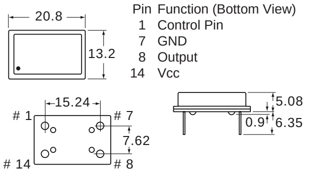
ECS-PCPRO-ND

Description	Digi-Key Part No.	Price Each
Blank Oscillator, 3 x 5 SMD	ECS-UPO-3X5-ND	7.35
Blank Oscillator, 5 X 7 SMD	ECS-UPO-5X7-ND	4.52
Blank Oscillator, Half Size	ECS-UPO-8PIN-ND	4.52
Blank Oscillator, Full Size	ECS-UPO-14PIN-ND	4.52
Adapter 3 X 5 SMD	ECS-UPO-3X5-FXT-ND	87.75
Adapter 5 X 7 SMD	ECS-UPO-5X7-FXT-ND	67.50
PC Based Programmer	ECS-PCPRO-ND	1521.00

CARDINAL COMPONENTS, INC. FIPO™ Field Instantly Programmable Oscillators

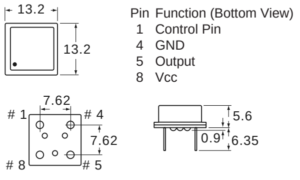
The FIPO system from Cardinal is indispensable for such things as prototypes, early stage design, unexpected design problems, modification, immediate service, a sudden ramp in production and volume production. Cardinal Oscillator Blanks are "Twice Programmable" to correct errors or to reuse the same part for two separate applications with different frequency and/or different output characteristics without having to dispose of the original part. Oscillator Blanks are available in four different package styles: Full Size 14 Pin Dip, Half Size 8 Pin Dip, 5x7 Ceramic SMD, and a Plastic SMD package. Frequency ranges are available from 1MHz to 133MHz in 5V, and 1MHz to 100MHz in 3.3V, and in ±100ppm, 50ppm and ±25ppm frequency stability options.

Fig. 1 (Style 1) Full Size 14 Pin Dip



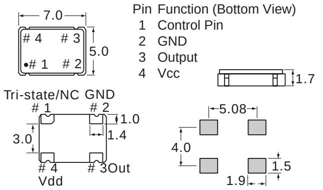
Pin	Function (Bottom View)
1	Control Pin
7	GND
8	Output
14	Vcc

Fig. 2 (Style 4) Half Size 8 Pin Dip



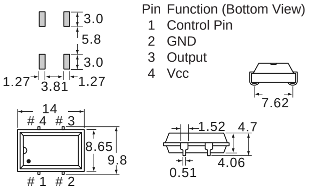
Pin	Function (Bottom View)
1	Control Pin
4	GND
5	Output
8	Vcc

Fig. 3 (Style 7) 5x7 Ceramic SMD



Pin	Function (Bottom View)
1	Control Pin
2	GND
3	Output
4	Vcc

Fig. 4 (Style 8) Plastic SMD



Pin	Function (Bottom View)
1	Control Pin
2	GND
3	Output
4	Vcc

Example Part Number:

CPP □ □ - □ □ □ □ □ -ND

#1	Output
C	CMOS
T	TTL

#2	Package Style
1	Full Size
4	Half Size
7	5 x 7 Ceramic
8	Plastic SMD

#3	Voltage
H	5 Volt
L	3.3 Volt

H = 1 thru 133MHz
L = 1 thru 100MHz

#4	Packaging
T	Tube
Z	Tape & Reel

Package style 1 and 4 available in tube packaging only. Package style 7 and 8 available in tube and tape & reel

#5	Operating Temp.
0	0°C to +70°C
5	-20°C to +70°C
7	-40°C to +85°C

#6	Stability
6	±100ppm
P	±50ppm
R	±25ppm

R not available in -40°C to +80°C

#7	Function
T	Tri-State
P	Power Down

How to Select Base Number:

# 1 = Select Output
# 2 = Select Package Style
# 3 = Select Voltage
# 4 = Select Packaging
# 5 = Select Operating Temperature
# 6 = Select Stability
# 7 = Select Function

Call Digi-Key with your Selected Base Part Number, and a Sales Representative will enter your desired frequency.

Tri-State Mode – The output of the part is weakly pulled low when the control pin goes low. The active circuitry continues to operate, allowing a rapid return to normal operation when the control pin goes high.

Power Down Mode – When the control pin goes low, all active circuitry on the chip within the oscillator is shut down. For reactivation, time in which the part regains its output is minimal.

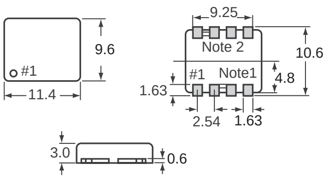
Fig.	Digi-Key* Base Part No.	Price Each 1	10	50	100
1	CPPC1-□T□R□-ND CPPC1-□T□□□-ND	6.20 5.40	5.74 5.00	5.12 4.46	4.66 4.05
1	CPPT1-□T□R□-ND CPPT1-□T□□□-ND	6.20 5.40	5.74 5.00	5.12 4.46	4.66 4.05
2	CPPC4-□T□R□-ND CPPC4-□T□□□-ND	6.20 5.40	5.74 5.00	5.12 4.46	4.66 4.05
2	CPPT4-□T□R□-ND CPPT4-□T□□□-ND	6.20 5.40	5.74 5.00	5.12 4.46	4.66 4.05

Fig.	Digi-Key* Base Part No.	Price Each 1	10	50	100	Tape & Reel Pricing 100	500	1,000
3	CPPC7-□□□R□-ND CPPC7-□□□□□-ND	5.76 5.00	5.33 4.63	4.76 4.13	4.31 3.75	438.48 382.50	1627.78 1417.80	2930.00 2550.00
3	CPPT7-□□□R□-ND CPPT7-□□□□□-ND	5.76 5.00	5.33 4.63	4.76 4.13	4.31 3.75	438.48 382.50	1627.78 1417.80	2930.00 2550.00
4	CPPC8-□□□R□-ND CPPC8-□□□□□-ND	6.20 5.40	5.74 5.00	5.12 4.46	4.66 4.05	473.52 412.50	1752.83 1527.78	3160.16 2750.00
4	CPPT8-□□□R□-ND CPPT8-□□□□□-ND	6.20 5.40	5.74 5.00	5.12 4.46	4.66 4.05	473.52 412.50	1752.83 1527.78	3160.16 2750.00

*Programmable parts are non-cancelable and non-returnable!

NEW!

CPPE9: Programmable PECL Oscillator and CPPV9: Programmable LVDS Oscillator



Pin Connection	
1	OE
2	Connect to Pin 3
3	Connect to Pin 2
4	GND
5	PECL+
6	PECL-
7	VDD
8	VDD

PECL

Note 1: Connect pin 2 to pin 3
Note 2: Connect pin 7 to pin 8

Pin Connection	
1	OE
2	Connect to Pin 3
3	Connect to Pin 2
4	GND
5	LVDS-
6	LVDS+
7	VDD
8	VDD

LVDS

Note 1: Connect pin 2 to pin 3
Note 2: Connect pin 7 to pin 8

Voltage	Packaging	Temperature	Operating Stability	Freq. Range	Device	Pin-out	Digi-Key* Base Part No.	Device	Pin-out	Digi-Key* Base Part No.	Price Each 1	10	50	100
3.3	Tube	0°C to +70°C	±50ppm	1.000-133.0 MHz	PECL	1	CPPE9LTBP-ND	LVDS	2	CPPV9LTBP-ND	19.00	17.58	15.68	8.31
3.3	Tube	0°C to +70°C	±100ppm	1.000-133.0 MHz	PECL	1	CPPE9LTB6-ND	LVDS	2	CPPV9LTB6-ND	19.00	17.58	15.68	8.31
3.3	Tube	-20°C to +70°C	±50ppm	1.000-133.0 MHz	PECL	1	CPPE9LTA5BP-ND	LVDS	2	CPPV9LTA5BP-ND	19.00	17.58	15.68	8.31
3.3	Tube	-20°C to +70°C	±100ppm	1.000-133.0 MHz	PECL	1	CPPE9LTA5B6-ND	LVDS	2	CPPV9LTA5B6-ND	19.00	17.58	15.68	8.31
3.3	Tube	-40°C to + 85°C	±50ppm	1.000-133.0 MHz	PECL	1	CPPE9LTA7BP-ND	LVDS	2	CPPV9LTA7BP-ND	19.00	17.58	15.68	8.31
3.3	Tube	-40°C to + 85°C	±100ppm	1.000-133.0 MHz	PECL	1	CPPE9LTA7B6-ND	LVDS	2	CPPV9LTA7B6-ND	19.00	17.58	15.68	8.31
5	Tube	0°C to +70°C	±50ppm	1.000-133.0 MHz	PECL	1	CPPE9TBP-ND	LVDS	2	CPPV9TBP-ND	19.00	17.58	15.68	8.31
5	Tube	0°C to +70°C	±100ppm	1.000-133.0 MHz	PECL	1	CPPE9TB6-ND	LVDS	2	CPPV9TB6-ND	19.00	17.58	15.68	8.31
5	Tube	-20°C to +70°C	±50ppm	1.000-133.0 MHz	PECL	1	CPPE9TA5BP-ND	LVDS	2	CPPV9TA5BP-ND	19.00	17.58	15.68	8.31
5	Tube	-20°C to +70°C	±100ppm	1.000-133.0 MHz	PECL	1	CPPE9TA5B6-ND	LVDS	2	CPPV9TA5B6-ND	19.00	17.58	15.68	8.31
5	Tube	-40°C to + 85°C	±50ppm	1.000-133.0 MHz	PECL	1	CPPE9TA7BP-ND	LVDS	2	CPPV9TA7BP-ND	19.00	17.58	15.68	8.31
5	Tube	-40°C to + 85°C	±100ppm	1.000-133.0 MHz	PECL	1	CPPE9TA7B6-ND	LVDS	2	CPPV9TA7B6-ND	19.00	17.58	15.68	8.31

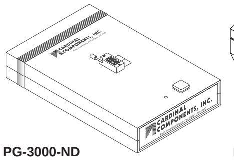
*Call Digi-Key with your selected base number, and a Sales Representative will enter your desired frequency. Programmable parts are non-cancelable and non-returnable!

Stand-Alone Field Oscillator Programmer

PG-3000 Features: • Low cost • USB Driven • Easy to follow programming instructions • Helpful error messages, • Field Upgradeable **System Requirements:** USB port Microsoft Windows 98SE, ME, 2000, XP Cardinal Thru-Hole Oscillators can be programmed via ZIF socket on programmer, SMD devices can be programmed via appropriate SMD adapters available separately

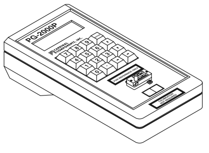
PG-2000 Features: Create oscillators, at a user specified frequency, within seconds, IN THE FIELD • No programming skills needed to create finished oscillators from sealed oscillator blanks • Designed for low-volume program applications such as engineering, field sales, and sample quantity • Internal frequency reference for single step programming • Simple User Interface • Cardinal 4-pin oscillators are easily inserted into a ZIF socket or SMD adapter for quick programming • Oscillator characteristics are selected via keypad and 4-line LCD display

PC Based


CARDINAL COMPONENTS, INC.
CARDINAL COMPONENTS, INC.

PG-3000-ND

Stand Alone Programmer



PG2000P-ND

Description	Digi-Key Part No.	Price Each
Blank Osc., Full Size, ±50ppm or ±100ppm	CPPX1-A7BR-ND	4.73
Blank Osc., Full Size, ±25ppm	CPPX1-A5BC-ND	5.43
Blank Osc., Half Size, ±50ppm or ±100ppm	CPPX4-A7BR-ND	4.73
Blank Osc., Half Size, ±25ppm	CPPX4-A5BC-ND	5.43
Blank Osc., 5x7 Ceramic SMD, ±50ppm or 100ppm	CPPX7-A7BR-ND	4.38
Blank Osc., 5x7 Ceramic SMD, ±25ppm	CPPX7-A5BC-ND	5.04
Blank Osc., Plastic SMD, ±50ppm or ±100ppm	CPPX8-A7BR-ND	4.73
Blank Osc., Plastic SMD, ±25ppm	CPPX8-A5BC-ND	5.43
SMD Prog. Socket for 5x7 Ceramic Oscillators	SC2000-ND	47.38
SMD Prog. Socket for Plastic SMD Oscillators	SC2500-ND	88.00
Stand Alone Programmer	PG2000P-ND	1560.00
Field Oscillator PC Based Programmer	PG-3000-ND *NEW!*	489.00
SMD Prog. Socket for 9.6x11.4 SMD Oscillators	SC-3500-ND *NEW!*	51.30

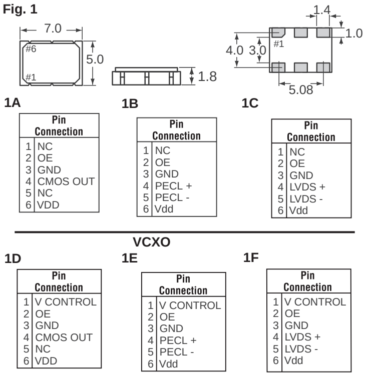
CARDINAL COMPONENTS, INC.

NEW! Telecom Oscillators and VCXOs

Fig.	Freq. (MHz)	Output Type	Freq. Stability	Digi-Key Part No.*	Price Each 1	10	50	Cardinal Part No.
1a	622.08	CMOS	±50	CFSC7-ND	52.50	45.00	37.50	CFSC7
1b	622.08	PECL	±30	CFSE7-ND	52.50	45.00	37.50	CFSE7
1c	622.08	LVDS	±30	CFSV7-ND	52.50	45.00	37.50	CFSV7
1d	622.08	CMOS	±30	CVFSC7-ND	70.00	60.00	50.00	CVFSC7
1e	622.08	PECL	±30	CVFSE7-ND	70.00	60.00	50.00	CVFSE7
1f	622.08	LVDS	±30	CVFSV7-ND	70.00	60.00	50.00	CVFSV7
2a	622.08	PECL	±50	CC622E9-ND	87.50	75.00	62.50	CC622E9
2b	622.08	LVDS	±50	CC622V9-ND	87.50	75.00	62.50	CC622V9
2c	622.08	PECL	±30	CV622E9-ND	122.50	105.00	87.50	CV622E9
2d	622.08	LVDS	±50	CV622V9-ND	122.50	105.00	87.50	CV622V9
1a	311.04	CMOS	±50	C3FSC7-ND	42.00	36.00	30.00	C3FSC7
1b	311.04	PECL	±30	C3FSE7-ND	42.00	36.00	30.00	C3FSE7
1c	311.04	LVDS	±30	C3FSV7-ND	42.00	36.00	30.00	C3FSV7
1d	311.04	CMOS	±30	C3VFSC7-ND	52.50	45.00	37.50	C3VFSC7
1e	311.04	PECL	±30	C3VFSE7-ND	52.50	45.00	37.50	C3VFSE7
1f	311.04	LVDS	±30	C3VFSV7-ND	52.50	45.00	37.50	C3VFSV7

*For electrical specifications please see the appropriate data sheets

Fig. 1



1A

Pin Connection	
1	NC
2	OE
3	GND
4	CMOS OUT
5	NC
6	VDD

1B

Pin Connection	
1	NC
2	OE
3	GND
4	PECL +
5	PECL -
6	Vdd

1C

Pin Connection	
1	NC
2	OE
3	GND
4	LVDS +
5	LVDS -
6	Vdd

VCXO

1D

Pin Connection	
1	V CONTROL
2	OE
3	GND
4	CMOS OUT
5	NC
6	VDD

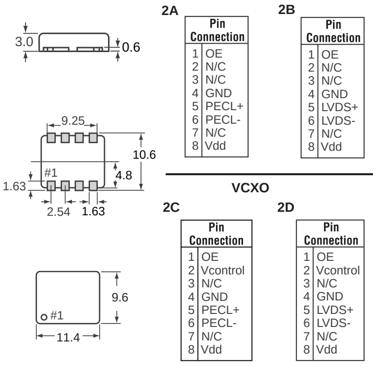
1E

Pin Connection	
1	V CONTROL
2	OE
3	GND
4	PECL +
5	PECL -
6	Vdd

1F

Pin Connection	
1	V CONTROL
2	OE
3	GND
4	LVDS +
5	LVDS -
6	Vdd

Fig. 2



2A

Pin Connection	
1	OE
2	N/C
3	N/C
4	GND
5	PECL+
6	PECL-
7	N/C
8	Vdd

2B

Pin Connection	
1	OE
2	N/C
3	N/C
4	GND
5	LVDS+
6	LVDS-
7	N/C
8	Vdd

VCXO

2C

Pin Connection	
1	OE
2	Vcontrol
3	N/C
4	GND
5	PECL+
6	PECL-
7	N/C
8	Vdd

2D

Pin Connection	
1	OE
2	Vcontrol
3	N/C
4	GND
5	LVDS+
6	LVDS-
7	N/C
8	Vdd

NEW! Multi-Frequency Programmable Oscillators and TCXOs

CCE: Programmable 4, 5, and 6 Output Oscillators and CCT: Programmable 4, 5, and 6 Output TCXOs

How to Select a Base Number:

#1 = Select Oscillator or TCXO
#3 = Select CMOS or PECL Outputs
#2 = Select Number of Outputs 4, 5, or 6
#4 = Select Package Type 1A = Thru Hole, 9 = SMD

Example Part Number:

CC ☐ ☐ ☐ ☐ P-ND

#1

	Device Type
E	Oscillator
T	TCXO

#2

	# of Outputs
4	4 Output
5	5 Output
6	6 Output

#3

	Output Type
C	CMOS
RC	Reconfigurable CMOS
E	PECL
RE	Reconfigurable PECL

#4

	Package Type
1A	Thru-Hole **Fig. 1**
9	SMD **Fig. 2**

Fig. 1

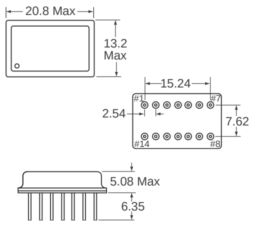
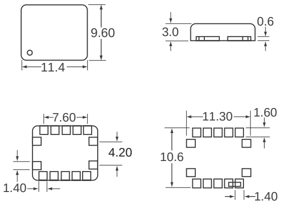


Fig. 2



CMOS

Device Type #1	No. of Outputs #2	Output Type #3	Pkg. Style #4	Suffix	Output Frequency Ranges: 4, 5, 6 Output Output A	4, 5, 6 Output Output B	4, 5, 6 Output Output C	4, 5, 6 Output Output D	5, 6 Output Output E	6 Output Output R
CCE	4, 5, or 6	C	1A or 9	P-ND	200Khz-200Mhz	200Khz-200Mhz	200Khz-200Mhz	200Khz-200-Mhz	25Mhz-200Mhz	12Mhz Fixed
CCE	4, 5, or 6	RC	1A or 9	P-ND	200Khz-200Mhz	200Khz-200Mhz	200Khz-200Mhz	200Khz-200-Mhz	25Mhz-200Mhz	12Mhz Fixed
CCT	4, 5, or 6	C	1A or 9	P-ND	200Khz-200Mhz	200Khz-200Mhz	200Khz-200Mhz	200Khz-200-Mhz	25Mhz-200Mhz	12Mhz Fixed
CCT	4, 5, or 6	RC	1A or 9	P-ND	200Khz-200Mhz	200Khz-200Mhz	200Khz-200Mhz	200Khz-200-Mhz	25Mhz-200Mhz	12Mhz Fixed

PECL

Device Type #1	No. of Outputs #2	Output Type #3	Pkg. Style #4	Suffix	Output Frequency Ranges: 4, 5, 6 Output Output A	4, 5, 6 Output Output B	4, 5, 6 Output Output C	4, 5, 6 Output Output D	5, 6 Output Output E	6 Output Output R
CCE	4, 5, or 6	E	1A or 9	P-ND	PECL+100Mhz-400Mhz	PECL-100Mhz-400Mhz	200Khz-200Mhz	200Khz-200Mhz	200Khz-200Mhz	12Mhz Fixed
CCE	4, 5, or 6	RE	1A or 9	P-ND	PECL+100Mhz-400Mhz	PECL-100Mhz-400Mhz	200Khz-200Mhz	200Khz-200Mhz	200Khz-200Mhz	12Mhz Fixed
CCT	4, 5, or 6	E	1A or 9	P-ND	PECL+100Mhz-400Mhz	PECL-100Mhz-400Mhz	200Khz-200Mhz	200Khz-200Mhz	200Khz-200Mhz	12Mhz Fixed
CCT	4, 5, or 6	RE	1A or 9	P-ND	PECL+100Mhz-400Mhz	PECL-100Mhz-400Mhz	200Khz-200Mhz	200Khz-200Mhz	200Khz-200Mhz	12Mhz Fixed

Fig.	Digi-Key* Base Part No.	Price Each 1	10	50	100
1	CCE4E1AP-ND	27.96	25.87	23.07	12.23
	CCE4RE1AP-ND	30.36	28.09	25.05	13.28
	CCE5E1AP-ND	31.96	29.57	26.37	13.98
	CCE5RE1AP-ND	34.76	32.16	28.68	15.21
	CCE6E1AP-ND	35.96	33.27	29.67	15.73
	CCE6RE1AP-ND	39.16	36.23	32.31	17.13
	CCT4E1AP-ND	39.96	36.97	32.97	17.48
	CCT4RE1AP-ND	43.96	40.67	36.27	19.23
	CCT5E1AP-ND	47.96	44.37	39.57	20.98
	CCT5RE1AP-ND	51.96	48.07	42.87	22.73
	CCT6E1AP-ND	55.96	51.77	46.17	24.48
	CCT6RE1AP-ND	59.96	55.47	49.47	26.23
2	CCE4E9P-ND	23.96	22.17	19.77	10.48
	CCE4RE9P-ND	26.36	24.39	21.75	11.53
	CCE5E9P-ND	27.96	25.87	23.07	12.23
	CCE5RE9P-ND	30.76	28.46	25.38	13.46
	CCE6E9P-ND	31.96	29.57	26.37	13.98
	CCE6RE9P-ND	35.16	32.53	29.01	15.38
	CCT4E9P-ND	39.96	36.97	32.97	17.48
	CCT4RE9P-ND	43.96	40.67	36.27	19.23
	CCT5E9P-ND	43.96	40.67	36.27	19.23
	CCT5RE9P-ND	47.96	44.37	39.57	20.98
	CCT6E9P-ND	51.96	48.07	42.87	22.73
	CCT6RE9P-ND	55.96	51.77	46.17	24.48

Fig.	Digi-Key* Base Part No.	Price Each 1	10	50	100
1	CCE4C1AP-ND	27.96	25.87	23.07	12.23
	CCE4RC1AP-ND	30.36	28.09	25.05	13.28
	CCE5C1AP-ND	31.96	29.57	26.37	13.98
	CCE5RC1AP-ND	34.76	32.16	28.68	15.21
	CCE6C1AP-ND	35.96	33.27	29.67	15.73
	CCE6RC1AP-ND	39.16	36.23	32.31	17.13
	CCT4C1AP-ND	39.96	36.97	32.97	17.48
	CCT4RC1AP-ND	43.96	40.67	36.27	19.23
	CCT5C1AP-ND	47.96	44.37	39.57	20.98
	CCT5RC1AP-ND	51.96	48.07	42.87	22.73
	CCT6C1AP-ND	55.96	51.77	46.17	24.48
	CCT6RC1AP-ND	59.96	55.47	49.47	26.23
2	CCE4C9P-ND	23.96	22.17	19.77	10.48
	CCE4RC9P-ND	26.36	24.39	21.75	11.53
	CCE5C9P-ND	27.96	25.87	23.07	12.23
	CCE5RC9P-ND	30.76	28.46	25.38	13.46
	CCE6C9P-ND	31.96	29.57	26.37	13.98
	CCE6RC9P-ND	35.16	32.53	29.01	15.38
	CCT4C9P-ND	39.96	36.97	32.97	17.48
	CCT4RC9P-ND	43.96	40.67	36.27	19.23
	CCT5C9P-ND	43.96	40.67	36.27	18.53
	CCT5RC9P-ND	47.96	44.37	39.57	20.98
	CCT6C9P-ND	51.96	48.07	42.87	22.73
	CCT6RC9P-ND	55.96	51.77	46.17	24.48

Call Digi-Key with your Selected Base Number, and a Sales Representative will enter your desired frequencies for the multiple outputs. *Programmable parts are non-cancelable and non-returnable!

NEW! SCMF Evaluation Board and SCUSB Evaluation Kit

SCMF is a test board that is used to demonstrate the Cardinal Multiple Output Series Reconfigurable Oscillators. The SCMF features a ZIF socket that allows testing of the Thru-Hole Multiple Output Oscillators featured above. The SCMF can also interface with a microcontroller through the I^{2}C connector to allow reconfiguration of the oscillators.

Included: Software CD for creating JEDEC files for reconfiguration. Systems Requirements: Windows 98SE, ME, 2000XP Required Equipment: 5VDC 200mA power source (NOT INCLUDED)

SCUSB includes the SCMF Evaluation Board plus a smaller daughter board, which allows the user to connect to a PC via a USB port. This eliminates the need for a separate power source. Using the two boards together, allows communication and reconfiguration of all the reconfigurable series oscillators. The kit can also be configured to interface with a microcontroller through the I^{2}C connector for stand-alone operation.

Included: Software CD for use on PC (including all necessary USB drivers), and USB Cable. System Requirements: Windows 98SE, ME, 2000XP, Minimum screen resolution 1024 x 768, Available USB Port.

Description	Digi-Key Part No.	Price Each
Evaluation Board	SCMF-ND	99.00
Evaluation Kit	SCUSB-ND	229.00

EPSON ELECTRONICS
AMERICA, INC.

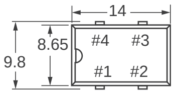
SG-8002 Programmable Oscillators

The SG-8002 Series gives you the flexibility to solve many different application problems with a one time programmable device. Programmable Oscillators provide the ability to pick a custom frequency in one of five different packages available in SMD and Thru-Hole styles. These five packages are pin compatible with the Epson SG-615, SG-636, SG-51, SG-531 and SG-710 Oscillators. Frequency ranges are available from 1Mhz to 125Mhz, in ±100ppm and ±50ppm frequency stability options and 3.3 or 5V power supply levels.

Dim. in mm

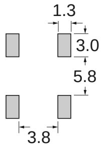
SG-615 Package (JA)

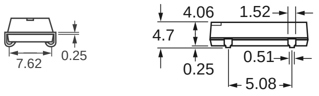
Top View



No.	Pin Terminal
1	OE or ST
2	GND
3	OUT
4	VDD

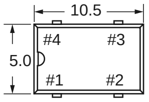
Recommended Soldering Pattern





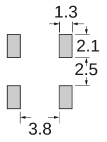
SG-636 Package (JC)

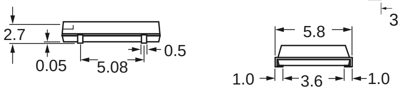
Top View



No.	Pin Terminal
1	OE or ST
2	GND
3	OUT
4	VDD

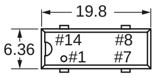
Recommended Soldering Pattern



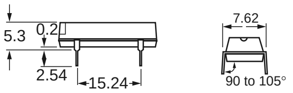


SG-51 Package (DB)

Top View

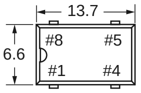


No.	Pin Terminal
1	OE or ST
7	GND
8	OUT
14	VDD

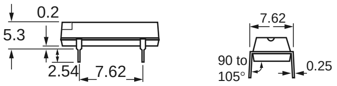


SG-531 Package (DC)

Top View

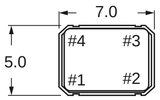


No.	Pin Terminal
1	OE or ST
4	GND
5	OUT
8	VDD



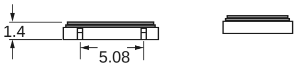
SG-710 Package (CA)

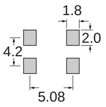
Top View



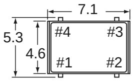
No.	Pin Terminal
1	OE or ST
2	GND
3	OUT
4	VDD

Recommended Soldering Pattern



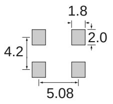


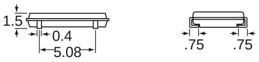
Package (JF)



No.	Pin Terminal
1	OE or ST
2	GND
3	OUT
4	VDD

Recommended Soldering Pattern





Example Part Number:

SG-8002 □□ - □ □ □ -ND

How to order:

#1 = Select *Package.*
#2 = Select *Function.*
#3 = Select *Power Supply Duty Level.*
#4 = Select *Frequency Stability and Operating Temperature.*

Call Digi-Key with your Base Part Number and an Operator will enter your desired frequency.

#1	
	Package
JA	SG-615
JC	SG-636
DB	SG-51
DC	SG-531
CA	SG-710
JF	—

#2	
	Function
P	Output Enable
S	Standby

#3		*#4*			
	Power Supply Duty Level		**Frequency Stability**	**Operating Temperature**	**Available Frequency Range**
H	5.0V, CMOS	*B*	±50ppm	-20°C to +70°C	1.00Mhz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C to +85°C	1.00Mhz - 55.00MHz
T	5.0V, TTL	*B*	±50ppm	-20°C to +70°C	1.00Mhz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C to +85°C	1.00Mhz - 55.00MHz
C	3.3V, CMOS	*B*	±50ppm	-20°C to +70°C	1.00Mhz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C to +85°C	1.00Mhz - 125.00MHz

† Not available in JC Package

"Parts coming from Digi Key are marked with Manufacture Date Lot Code only."

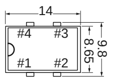
"Fully marked parts are available as a non-catalog order only."

One Time Programmable parts are non-cancelable, non-returnable!

Digi-Key * Base Part No.	**Price Each 1**	**10**	**50**	**100**
SG-8002JA-□□□-ND	3.85	3.30	2.53	2.20
SG-8002JC-□□□-ND	4.38	3.75	2.88	2.50
SG-8002DB-□□□-ND	3.33	2.85	2.19	1.90
SG-8002DC-□□□-ND	3.33	2.85	2.19	1.90
SG-8002CA-□□□-ND	4.73	4.05	3.11	2.70
SG-8002JF-□□□-ND	3.50	3.00	2.30	2.00

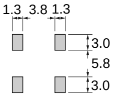
* For complete Base Part Number, substitute the corresponding letter for □.

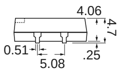
HG-1000 Oscillators

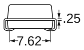


No.	Pin Terminal
1	Ts
2	GND
3	OUT
4	VDD

Recommended Soldering Pattern







Specifications:

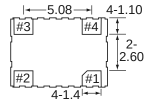
• **Max. Supply Voltage:** -0.5V to +7.0V • **Operating Voltage:** 5.0V ±.25V • **Storage Temperature:** ±55°C to +125°C • **Operating Temperature:** -40°C to +85°C • **Frequency Tolerance:** ±25ppm @ -40°C to +85°C • **Current Consumption:** 10mA Max. • **Duty:** 40% to 60% @ 1/2 VDD Level • **Output Load Condition:** 15pf Max. • **Output Rise Time:** 8ns Max. • **Output Fall Time:** 8ns Max. • **Oscillation Startup Time:** 4ms max.

Frequency MHz	**Digi-Key Part No.**	**Cut Tape Price Each 1**	**10**	**50**	**Digi-Key Part No.**	**Tape & Reel Pricing 1,000**	**Epson Part No.**
1.544	SE2861CT-ND	10.15	8.70	7.25	SE2861TR-ND	4830.00	HG-1012JA 1.5440M-BX0
16.384	SE2864CT-ND	10.15	8.70	7.25	SE2864TR-ND	4830.00	HG-1012JA 16.3840M-BX0

EPSON ELECTRONICS
AMERICA, INC.

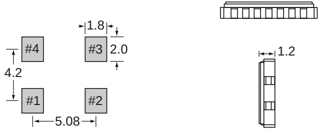
Surface-Mount Quartz Crystal Products

EG2001CA Series Oscillators



No.	Pin Conn.
1	OE
2	GND
3	Out
4	VDD

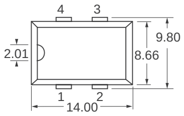
Recommended Soldering Pattern



Specifications:
• **Max. Supply Voltage:** -0.5 to +5.5V • **Operating Voltage:** 3.0 to 3.6V • **Storage Temperature:** -55°C to +100°C • **Operating Temperature:** 0°C to +70°C • **Frequency Stability:** ±100ppm @ 0°C to +70°C • **Current Consumption:** 50mA Max. • **Duty:** 45% to 55% @ 50% VDD Level • **Output Load Condition:** 25pF Max. • **Output Rise/Fall Time:** 2ns Max. • **Oscillation Startup Time:** 10ms Max.

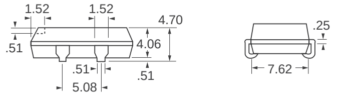
SG-615 Series Oscillators

- SG-615P
  (C-MOS, TTL compatible type)
- 615PT
  (TTL compatible type)
- SG-615H/PCV
  (C-MOS compatible type)
- Provided with an OE (Output Enable) function
  (SG-615P/615PT) (Contains internal pull-up resistor.)

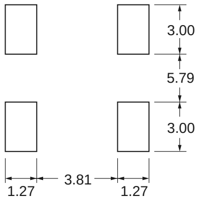


No.	Pin Conn.
1	OE or ST
2	GND
3	Out
4	VDD

( ) Indicates P Type



Recommended Soldering Pattern



Specifications:

• **Supply Voltage:** Operating: 5.0±0.5V; Maximum: –0.3~ +7.0V. • **Temperature Range:** Operating: -40°C to +85°C; Storage: -55°C to +125°C. • **Frequency Stability:** C: ±100ppm, –10°C to +70°C; C: ±200ppm, –40°C to +85°C. • **Current Consumption:** 25mA Max. (SG-615/615P); 35mA Max. (SG-615PT); 32mA Max. (SG-615H). Values are with no load. • **Duty Cycle:** 40~60%, 1.4V or 1/2VDD level. • **Output Voltage:** VDD -0.4V Min. (SG-615/615P), IOH = -400µA; VDD -0.4 Min. (SG-615PT), IOH = -400µA; VDD -0.37V Min. (SG-615H), IOH = 4mA; 0.4V Max. (SG-615/ 615P), IOL = 16mA; 0.4V Max. (SG-615PT), IOL =16mA; 0.37V Max. (SG-615H), IOL = 4mA. • **OE Input Voltage** (SG-615P/ 615PT): 2.0V Min., IOH = IµA (VIH = VDD); 0.8V Max., IIL = 100mA (VIL = GND). • **Rise Time:** 8 nsec Max., 5 nsec Typ. (SG-615/615P); 10 nsec Max., 5 nsec Typ. (SG-615PT); 7 nsec Max., 3.5 nsec Typ. (SG-615H). • **Fall Time:** 8 nsec Max., 5 nsec Typ. (SG-615/615P); 8 nsec Max., 3 nsec Typ. (SG-615PT); 7 nsec Max., 3.5 nsec Typ. (SG-615H). • **Oscillation Start Time:** 4 msec Max., (SG-615/615P); 10 msec Max., (SG-615PT); 10 msec Max., (SG-615H).

Series	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Epson Part No.
EG2001CA	106.25	SE1008CT-ND	13.00	11.70	10.40	9.10	SE1008TR-ND	8330.00	EG-2001CA 106.2500M-PCHL0
	125.000	SE1009CT-ND	14.38	12.94	11.50	10.07	SE1009TR-ND	9170.00	EG-2001CA 125.0000M-PCHL0
SG-615P (OE) (CMOS) (TTL)	1.544	SE2217CT-ND	3.50	3.00	2.50	2.25	SE2217TR-ND	1670.00	SG-615P 1.5440MC0
	1.8432	SE2201CT-ND	3.50	3.00	2.50	2.25	SE2201TR-ND	1670.00	SG-615P 1.8432MC0
	2.000	SE2202CT-ND	3.50	3.00	2.50	2.25	SE2202TR-ND	1670.00	SG-615P 2.0000MC0
	2.048	SE2218CT-ND	3.50	3.00	2.50	2.25	SE2218TR-ND	1670.00	SG-615P 2.0480MC0
	2.4576	SE2203CT-ND	3.50	3.00	2.50	2.25	SE2203TR-ND	1670.00	SG-615P 2.4576MC0
	3.072	SE2219CT-ND	3.50	3.00	2.50	2.25	SE2219TR-ND	1670.00	SG-615P 3.0720MC0
	3.579	SE2222CT-ND	3.50	3.00	2.50	2.25	SE2222TR-ND	1670.00	SG-615P 3.579545MC0
	3.6864	SE2204CT-ND	3.50	3.00	2.50	2.25	SE2204TR-ND	1670.00	SG-615P 3.6864MC0
	4.000	SE2205CT-ND	3.50	3.00	2.50	2.25	SE2205TR-ND	1670.00	SG-615P 4.0000MC0
	5.000	SE2224CT-ND	3.50	3.00	2.50	2.25	SE2224TR-ND	1670.00	SG-615P 5.0000MC0
	6.000	SE2207CT-ND	3.50	3.00	2.50	2.25	SE2207TR-ND	1670.00	SG-615P 6.0000MC0
	6.144	SE2226CT-ND	3.50	3.00	2.50	2.25	SE2226TR-ND	1670.00	SG-615P 6.1440MC0
	7.372	SE2227CT-ND	3.50	3.00	2.50	2.25	SE2227TR-ND	1670.00	SG-615P 7.3728MC0
	8.192	SE2228CT-ND	3.50	3.00	2.50	2.25	SE2228TR-ND	1670.00	SG-615P 8.1920MC0
	9.830	SE2229CT-ND	3.50	3.00	2.50	2.25	SE2229TR-ND	1670.00	SG-615P 9.8300MC0
	10.000	SE2209CT-ND	3.50	3.00	2.50	2.25	SE2209TR-ND	1670.00	SG-615P 10.0000MC0
	11.059	SE2232CT-ND	3.50	3.00	2.50	2.25	SE2232TR-ND	1670.00	SG-615P 11.0592MC0
	12.000	SE2210CT-ND	3.50	3.00	2.50	2.25	SE2210TR-ND	1670.00	SG-615P 12.0000MC0
	12.288	SE2233CT-ND	3.50	3.00	2.50	2.25	SE2233TR-ND	1670.00	SG-615P 12.2880MC0
	14.31818	SE2211CT-ND	3.50	3.00	2.50	2.25	SE2211TR-ND	1670.00	SG-615P 14.31818MC0
	16.000	SE2212CT-ND	3.50	3.00	2.50	2.25	SE2212TR-ND	1670.00	SG-615P 16.0000MC0
	18.432	SE2213CT-ND	3.50	3.00	2.50	2.25	SE2213TR-ND	1670.00	SG-615P 18.4320MC0
	18.869	SE2238CT-ND	3.50	3.00	2.50	2.25	SE2238TR-ND	1670.00	SG-615P 18.8696MC0
	19.660	SE2239CT-ND	3.50	3.00	2.50	2.25	SE2239TR-ND	1670.00	SG-615P 19.6608MC0
	20.000	SE2214CT-ND	3.50	3.00	2.50	2.25	SE2214TR-ND	1670.00	SG-615P 20.0000MC0
	20.480	SE2240CT-ND	3.50	3.00	2.50	2.25	SE2240TR-ND	1670.00	SG-615P 20.4800MC0
	22.118	SE2241CT-ND	3.50	3.00	2.50	2.25	SE2241TR-ND	1670.00	SG-615P 22.1184MC0
	24.000	SE2215CT-ND	3.50	3.00	2.50	2.25	SE2215TR-ND	1670.00	SG-615P 24.0000MC0
	25.000	SE2242CT-ND	3.50	3.00	2.50	2.25	SE2242TR-ND	1670.00	SG-615P 25.0000MC0
SG-615PT (OE)	36.000	SE2304CT-ND	6.20	5.55	—	4.63	—	—	SG-615PT-36.0000MC2
SG-615PTJ (TTL)	27.000	SE2326CT-ND	3.50	3.00	2.50	2.25	SE2326TR-ND	1670.00	SG-615PTJ 27.0000MC0
	30.000	SE2330CT-ND	3.50	3.00	2.50	2.25	SE2330TR-ND	1670.00	SG-615PTJ 30.0000MC0
SG-615PH (CMOS)	32.000	SE2337CT-ND	3.50	3.00	2.50	2.25	SE2337TR-ND	1670.00	SG-615PH 32.0000MC0
	33.000	SE2339CT-ND	3.50	3.00	2.50	2.25	SE2339TR-ND	1670.00	SG-615PH 33.0000MC0
	33.333	SE2340CT-ND	3.50	3.00	2.50	2.25	SE2340TR-ND	1670.00	SG-615PH 33.3333MC0
	36.000	SE2341CT-ND	3.50	3.00	2.50	2.25	SE2341TR-ND	1670.00	SG-615PH 36.0000MC0
	40.000	SE2343CT-ND	3.50	3.00	2.50	2.25	SE2343TR-ND	1670.00	SG-615PH 40.0000MC0
	44.900	SE2344CT-ND	3.50	3.00	2.50	2.25	SE2344TR-ND	1670.00	SG-615PH 44.9000MC0
	48.000	SE2345CT-ND	3.50	3.00	2.50	2.25	SE2345TR-ND	1670.00	SG-615PH 48.0000MC0
	50.000	SE2346CT-ND	3.50	3.00	2.50	2.25	SE2346TR-ND	1670.00	SG-615PH 50.0000MC0
	55.000	SE2347CT-ND	3.50	3.00	2.50	2.25	SE2347TR-ND	1670.00	SG-615PH 55.0000MC0
	66.666	SE2352CT-ND	3.64	3.12	2.60	2.34	SE2352TR-ND	1850.00	SG-615PH 66.6660MC0
SG-615PCV (OE) (CMOS)	50.000	SE3503CT-ND	5.25	4.38	3.10	2.80	SE3503TR-ND	2300.00	SG-615PCV 50.000MC0
	75.000	SE3511CT-ND	5.85	4.88	3.40	3.10	SE3511TR-ND	2550.00	SG-615PCV 75.000MC0
	90.000	SE3513CT-ND	5.85	4.88	3.40	3.10	—	—	SG-615PCV 90.000MC0
	106.250	SE3515CT-ND	6.45	5.38	3.85	3.45	SE3515TR-ND	2900.00	SG-615PCV 106.250MC0
	120.000	SE3516CT-ND	6.45	5.38	3.85	3.45	—	—	SG-615PCV 120.000MC0

EPSON ELECTRONICS
AMERICA, INC.

CMOS/TTL Oscillators

- High reliability by cylinder type AT Crystal
- Automatic mountable
- Lower current consumption by C-MOS IC
- TTL-10 output load by using C-MOS IC
- DIP 14-PIN plastic package compatible with metal package oscillator
- DIP 8-PIN plastic package compatible with half size metal package oscillator

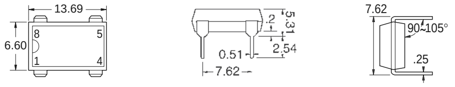
SG-51P, SG-531P, SG-51PH Specifications: Operating Voltage: 5.0±0.5V. **Operating Temperature Range:** -10°C to +70°C. **Frequency Stability:** C:±100ppm. **Current Consumption:** 25mA Max. Typ. **Output Voltage:** VDD -0.4V Min., IOH = -400mA; 0.4V Max., IOL = 16mA. **Input Voltage:** VIH 2.0V Min., IOH = ImA (VIH = VDD); VIL 0.8V Max., IIL = -100uA (VIL = GND). **Output Rise Time:** 8 nsec Max., 4 nsec Typ. **Output Fall Time:** 8 nsec Max., 5 nsec Typ. **Oscillation Time:** 4 msec Max., 0.3 msec.

SG-531PCV Specifications: Operating Voltage: 2.7V to 5.5V. **Operating Temperature Range:** -10°C to +70°C. **Frequency Stability:** C:±100ppm. **Current Consumption:** 50mA Max. **Output Rise Time:** 4 nsec. **Output Fall Time:** 4 nsec. **Oscillation Start-Up Time:** 10 msec Max.

SG-51KT, SG-531PTJ, SG-51PTJ Specifications: Operating Voltage: 5.0±0.5V. **Operating Temp. Range:** 10°C to +70°C. **Frequency Stability:** C:±100ppm. **Current Consumption:** 25mA (32MHz) without load Typ. **Output Voltage:** VDD -0.4V Min., IOH = -400 mA; 0.4V Max., IOL = 16mA. **Input Voltage:** VIH 2.0V Min., IIH = ImA (VIH = VDD); VIL 0.8V Max., IIL = 100uA (VIL = GND). **Output Rise Time:** 10 nsec Max., 5 nsec Typ. **Output Fall Time:** 8 nsec Max., 3 nsec Typ. **Oscillation Time:** 10 msec Max., 5 msec.

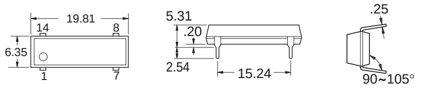
SG-531PH Specifications: Operating Voltage: 5.0±0.5V. **Operating Temp. Range:** -10°C to +70°C. **Frequency Stability:** C:±100ppm. **Current Consumption:** 32mA Max. Typ. **Output Voltage:** VDD -0.37V Min., IOH = -4mA; 0.37V Max., IOL = 4mA. **Output Rise Time:** 7 nsec Max., 3.5 nsec Typ. **Output Fall Time:** 7 nsec Max., 3.5 nsec Typ. **Oscillation Time:** 10 msec Max., 3 msec Typ.

SG-531P, SG-531PTJ, SG-531PH, SG-531PCV (Half Size)



Pin	SG-531P, PH, PTJ
1	OE
4	GND
5	Out
8	VDD

SG-51P, SG-51KT, SG-51PTJ, SG-51PH (Full Size)



Pin	SG-51KT
1	NC
7	GND
8	Out
14	VDD

Pin	51P, PH, PTJ
1	OE
7	GND
8	Out
14	VDD

Case	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	Epson Part No.
SG-531PH (OE) (CMOS)	32.000	SE1111-ND	2.94	24.50	85.26	154.84	SG-531PH 32.0000MC
	32.514	SE1112-ND	2.94	24.50	85.26	154.84	SG-531PH 32.5140MC
	32.768	SE1113-ND	2.94	24.50	85.26	154.84	SG-531PH 32.7680MC
	33.000	SE1114-ND	2.94	24.50	85.26	154.84	SG-531PH 33.0000MC
	33.333	SE1115-ND	2.94	24.50	85.26	154.84	SG-531PH 33.3330MC
	36.000	SE1116-ND	2.94	24.50	85.26	154.84	SG-531PH 36.0000MC
	38.000	SE1117-ND	2.94	24.50	85.26	154.84	SG-531PH 38.0000MC
	42.000	SE1119-ND	2.94	24.50	85.26	154.84	SG-531PH 42.0000MC
	44.900	SE1120-ND	2.94	24.50	85.26	154.84	SG-531PH 44.9000MC
	48.000	SE1122-ND	2.94	24.50	85.26	154.84	SG-531PH 48.0000MC
	64.000	SE1126-ND	3.09	25.75	89.88	162.27	SG-531PH 64.0000MC
	65.000	SE1127-ND	3.09	25.75	89.88	162.27	SG-531PH 65.0000MC
	66.000	SE1128-ND	3.09	25.75	89.88	162.27	SG-531PH 66.0000MC
	66.666	SE1129-ND	3.09	25.75	89.88	162.27	SG-531PH 66.6667MC
SG-531P (OE) (CMOS/ TTL)	1.544	SE1216-ND	2.94	24.50	85.26	154.84	SG-531P 1.5440MC
	1.8432	SE1201-ND	2.94	24.50	85.26	154.84	SG-531P 1.8432MC
	2.000	SE1217-ND	2.94	24.50	85.26	154.84	SG-531P 2.0000MC
	2.048	SE1218-ND	2.94	24.50	85.26	154.84	SG-531P 2.0480MC
	2.4576	SE1202-ND	2.94	24.50	85.26	154.84	SG-531P 2.4576MC
	3.072	SE1219-ND	2.94	24.50	85.26	154.84	SG-531P 3.0720MC
	3.088	SE1220-ND	2.94	24.50	85.26	154.84	SG-531P 3.0880MC
	3.276	SE1221-ND	2.94	24.50	85.26	154.84	SG-531P 3.2768MC
	3.579	SE1222-ND	2.94	24.50	85.26	154.84	SG-531P 3.579545MC
	3.686	SE1223-ND	2.94	24.50	85.26	154.84	SG-531P 3.6864MC
	4.000	SE1203-ND	2.94	24.50	85.26	154.84	SG-531P 4.0000MC
	4.096	SE1224-ND	2.94	24.50	85.26	154.84	SG-531P 4.0960MC
	4.9152	SE1204-ND	2.94	24.50	85.26	154.84	SG-531P 4.9152MC
	5.000	SE1205-ND	2.94	24.50	85.26	154.84	SG-531P 5.0000MC
	5.068	SE1225-ND	2.94	24.50	85.26	154.84	SG-531P 5.0688MC
	6.000	SE1206-ND	2.94	24.50	85.26	154.84	SG-531P 6.0000MC
	6.144	SE1226-ND	2.94	24.50	85.26	154.84	SG-531P 6.1440MC
	7.3728	SE1227-ND	2.94	24.50	85.26	154.84	SG-531P 7.3728MC
	8.000	SE1207-ND	2.94	24.50	85.26	154.84	SG-531P 8.0000MC
	8.192	SE1228-ND	2.94	24.50	85.26	154.84	SG-531P 8.1920MC
	9.830	SE1229-ND	2.94	24.50	85.26	154.84	SG-531P 9.8304MC
	10.000	SE1208-ND	2.94	24.50	85.26	154.84	SG-531P 10.0000MC
	10.240	SE1230-ND	2.94	24.50	85.26	154.84	SG-531P 10.2400MC
	11.000	SE1231-ND	2.94	24.50	85.26	154.84	SG-531P 11.0000MC
	11.059	SE1232-ND	2.94	24.50	85.26	154.84	SG-531P 11.0592MC
	12.000	SE1209-ND	2.94	24.50	85.26	154.84	SG-531P 12.0000MC
	12.288	SE1233-ND	2.94	24.50	85.26	154.84	SG-531P 12.2880MC
	14.31818	SE1210-ND	2.94	24.50	85.26	154.84	SG-531P 14.31818MC
	14.745	SE1234-ND	2.94	24.50	85.26	154.84	SG-531P 14.7456MC
	15.000	SE1235-ND	2.94	24.50	85.26	154.84	SG-531P 15.0000MC
	16.257	SE1236-ND	2.94	24.50	85.26	154.84	SG-531P 16.2570MC
	18.000	SE1237-ND	2.94	24.50	85.26	154.84	SG-531P 18.0000MC
	18.432	SE1238-ND	2.94	24.50	85.26	154.84	SG-531P 18.4320MC
	18.869	SE1239-ND	2.94	24.50	85.26	154.84	SG-531P 18.8696MC
	19.660	SE1240-ND	2.94	24.50	85.26	154.84	SG-531P 19.6608MC
	20.480	SE1241-ND	2.94	24.50	85.26	154.84	SG-531P 20.4800MC
	22.118	SE1242-ND	2.94	24.50	85.26	154.84	SG-531P 22.1184MC
	24.000	SE1213-ND	2.94	24.50	85.26	154.84	SG-531P 24.0000MC
	25.175	SE1215-ND	2.94	24.50	85.26	154.84	SG-531P 25.1750MC
	25.576	SE1243-ND	2.94	24.50	85.26	154.84	SG-531P 25.5760MC
SG-531PTJ (OE) (TTL)	27.000	SE1817-ND	2.94	24.50	85.26	154.84	SG-531PTJ 27.0000MC
	28.000	SE1818-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.0000MC
	28.322	SE1819-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.3220MC
	28.636	SE1820-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.63636MC
	29.491	SE1821-ND	2.94	24.50	85.26	154.84	SG-531PTJ 29.4910MC
	30.000	SE1822-ND	2.94	24.50	85.26	154.84	SG-531PTJ 30.0000MC
	32.514	SE1824-ND	2.94	24.50	85.26	154.84	SG-531PTJ 32.5140MC
	32.768	SE1825-ND	2.94	24.50	85.26	154.84	SG-531PTJ 32.7680MC
	33.000	SE1826-ND	2.94	24.50	85.26	154.84	SG-531PTJ 33.0000MC
	33.333	SE1827-ND	2.94	24.50	85.26	154.84	SG-531PTJ 33.3333MC
	36.000	SE1828-ND	2.94	24.50	85.26	154.84	SG-531PTJ 36.0000MC

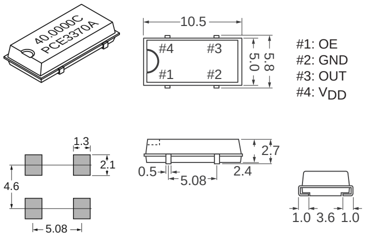
A462-ND	Aries Full-Size Socket for a 4-Pin Oscillator	$.60/1; $12.50/25; $40.48/100
A463-ND	Aries Half-Size Socket for a 4-Pin Oscillator	$.60/1; $12.50/25; $40.48/100

Case	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	Epson Part No.
SG-531PCV (OE)(CMOS)	55.000	SE2904-ND	4.80	40.00	142.50	255.00	SG-531PCV 55.000MC
	106.250	SE2915-ND	7.95	66.25	232.50	420.00	SG-531PCV 106.250MC
SG-51KT (TTL)	28.322	SE1602-ND	3.45	28.75	—	230.00	SG-51KT-28.3220MC
SG-51P (OE) (CMOS/ TTL)	1.544	SE1716-ND	2.94	24.50	85.26	154.84	SG-51P 1.5440MC
	1.8432	SE1701-ND	2.94	24.50	85.26	154.84	SG-51P 1.8432MC
	2.000	SE1717-ND	2.94	24.50	85.26	154.84	SG-51P 2.0000MC
	2.048	SE1718-ND	2.94	24.50	85.26	154.84	SG-51P 2.0480MC
	3.072	SE1719-ND	2.94	24.50	85.26	154.84	SG-51P 3.0720MC
	3.088	SE1720-ND	2.94	24.50	85.26	154.84	SG-51P 3.0880MC
	3.276	SE1721-ND	2.94	24.50	85.26	154.84	SG-51P 3.2768MC
	3.579	SE1722-ND	2.94	24.50	85.26	154.84	SG-51P 3.579545MC
	3.686	SE1723-ND	2.94	24.50	85.26	154.84	SG-51P 3.6864MC
	4.000	SE1703-ND	2.94	24.50	85.26	154.84	SG-51P 4.0000MC
	4.096	SE1724-ND	2.94	24.50	85.26	154.84	SG-51P 4.0960MC
	4.9152	SE1704-ND	2.94	24.50	85.26	154.84	SG-51P 4.9152MC
	5.000	SE1705-ND	2.94	24.50	85.26	154.84	SG-51P 5.0000MC
	5.068	SE1725-ND	2.94	24.50	85.26	154.84	SG-51P 5.0680MC
	6.000	SE1706-ND	2.94	24.50	85.26	154.84	SG-51P 6.0000MC
	6.144	SE1726-ND	2.94	24.50	85.26	154.84	SG-51P 6.1448MC
	7.372	SE1727-ND	2.94	24.50	85.26	154.84	SG-51P 7.3728MC
	8.000	SE1707-ND	2.94	24.50	85.26	154.84	SG-51P 8.0000MC
	8.192	SE1728-ND	2.94	24.50	85.26	154.84	SG-51P 8.1920MC
	9.830	SE1729-ND	2.94	24.50	85.26	154.84	SG-51P 9.8304MC
	10.000	SE1708-ND	2.94	24.50	85.26	154.84	SG-51P 10.0000MC
	10.240	SE1730-ND	2.94	24.50	85.26	154.84	SG-51P 10.2400MC
	11.000	SE1731-ND	2.94	24.50	85.26	154.84	SG-51P 11.0000MC
	11.059	SE1732-ND	2.94	24.50	85.26	154.84	SG-51P 11.0592MC
	12.000	SE1709-ND	2.94	24.50	85.26	154.84	SG-51P 12.0000MC
	12.288	SE1733-ND	2.94	24.50	85.26	154.84	SG-51P 12.2880MC
	14.31818	SE1710-ND	2.94	24.50	85.26	154.84	SG-51P 14.318MC
	14.745	SE1734-ND	2.94	24.50	85.26	154.84	SG-51P 14.7456MC
	15.000	SE1735-ND	2.94	24.50	85.26	154.84	SG-51P 15.0000MC
	16.000	SE1711-ND	2.94	24.50	85.26	154.84	SG-51P 16.0000MC
	16.257	SE1736-ND	2.94	24.50	85.26	154.84	SG-51P 16.2570MC
	18.000	SE1737-ND	2.94	24.50	85.26	154.84	SG-51P 18.0000MC
	18.432	SE1738-ND	2.94	24.50	85.26	154.84	SG-51P 18.4320MC
	18.869	SE1739-ND	2.94	24.50	85.26	154.84	SG-51P 18.8690MC
	19.660	SE1740-ND	2.94	24.50	85.26	154.84	SG-51P 19.6608MC
	20.000	SE1712-ND	2.94	24.50	85.26	154.84	SG-51P 20.0000MC
	20.480	SE1741-ND	2.94	24.50	85.26	154.84	SG-51P 20.4800MC
	22.118	SE1742-ND	2.94	24.50	85.26	154.84	SG-51P 22.1184MC
	24.000	SE1713-ND	2.94	24.50	85.26	154.84	SG-51P 24.0000MC
	24.576	SE1743-ND	2.94	24.50	85.26	154.84	SG-51P 24.5760MC
	25.000	SE1714-ND	2.94	24.50	85.26	154.84	SG-51P 25.0000MC
	25.175	SE1715-ND	2.94	24.50	85.26	154.84	SG-51P 25.1750MC
SG-51PTJ (OE) (TTL)	28.000	SE1806-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.0000MC
	28.322	SE1807-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.3220MC
	28.636	SE1808-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.63636MC
	29.491	SE1809-ND	2.94	24.50	85.26	154.84	SG-51PTJ 29.4912MC
	30.000	SE1810-ND	2.94	24.50	85.26	154.84	SG-51PTJ 30.0000MC
	32.000	SE1811-ND	2.94	24.50	85.26	154.84	SG-51PTJ 32.0000MC
	32.768	SE1813-ND	2.94	24.50	85.26	154.84	SG-51PTJ 32.7680MC
	33.000	SE1814-ND	2.94	24.50	85.26	154.84	SG-51PTJ 33.0000MC
	33.333	SE1815-ND	2.94	24.50	85.26	154.84	SG-51PTJ 33.3333MC
	36.000	SE1816-ND	2.94	24.50	85.26	154.84	SG-51PTJ 36.0000MC
SG-51PH (OE) (CMOS)	32.768	SE1902-ND	2.94	24.50	85.26	154.84	SG-51PH 32.7680MC
	33.000	SE1903-ND	2.94	24.50	85.26	154.84	SG-51PH 33.0000MC
	33.333	SE1904-ND	2.94	24.50	85.26	154.84	SG-51PH 33.3330MC
	36.000	SE1905-ND	2.94	24.50	85.26	154.84	SG-51PH 36.0000MC
	38.000	SE1906-ND	2.94	24.50	85.26	154.84	SG-51PH 38.0000MC
	42.000	SE1908-ND	2.94	24.50	85.26	154.84	SG-51PH 42.0000MC
	44.900	SE1909-ND	2.94	24.50	85.26	154.84	SG-51PH 44.9000MC
	46.000	SE1910-ND	2.94	24.50	85.26	154.84	SG-51PH 46.0000MC
	48.000	SE1911-ND	2.94	24.50	85.26	154.84	SG-51PH 48.0000MC
	50.000	SE1912-ND	2.94	24.50	85.26	154.84	SG-51PH 50.0000MC
	55.000	SE1913-ND	2.94	24.50	85.26	154.84	SG-51PH 55.0000MC
	60.000	SE1914-ND	3.09	25.75	89.88	162.27	SG-51PH 60.0000MC

EPSON ELECTRONICS AMERICA, INC.

Surface-Mount Quartz Crystal Products

SG636PCE/636PCV Oscillator



FEATURES:

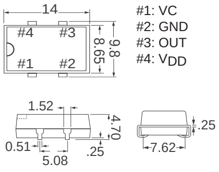
• 3.3 volt operation, low current consumption. • 45/55% duty cycle. • Small type SMD, thus allowing high density mounting. • Suitable for small handy equipments, especially “Energy Star Computers Program” products.

SPECIFICATIONS:

Max. Supply Voltage: –0.5V to +7.0V. **Operating Voltage:** 3.3V±0.3V, It is possible to work on 2.7 to 5.5 V_{DD}. **Storage Temperature:** –55°C to +100°C, Stored without Tape and Reel. **Operating Temperature:** –10°C to +70°C. **Frequency Stability:** C: ±100ppm, –10°C to +70°C. **Current Consumption:** 9mA Max., No Load Condition. **Output Disable Current:** 5.0mA Max. **Duty:** 45% to 55%. **High Output Voltage:** V_{DD} –0.4V Max., I_{OH}=–4mA. **Low Output Voltage:** 0.4V Max., I_{OL}=–4mA. **High Input Voltage:** 80% V_{DD} Min., OE Terminal. **Low Input Voltage:** 20% V_{DD} Max., OE Terminal. **Output Rise Time:** 5ns Max., 20% to 80% V_{DD} Level. **Output Fall Time:** 5ns Max., 80% to 20% V_{DD} Level. **Oscillation Start Up Time:** 4ms Max. **Aging:** ±5ppm/year Max. **Shock Resistance:** ±20ppm Max.

Voltage Controlled Crystal Oscillator (VCXO) VG-1011JA Series

FEATURES:

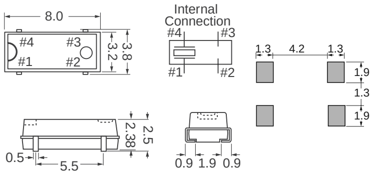


• Reflowable and high density mounting type SMD. • Using the heat-resisting type AT cut quartz crystal allows almost the same temperature soldering as universal SMD IC. • Using C-MOS IC allows low current consumption and assures high reliability. • Operating Supply Voltage: 5V. Control Voltage: 5V.

SPECIFICATIONS:

Supply Voltage (V_{DD}): –0.5V Min, 7.0V Max, **Operating Voltage (VC):** 5.0V ± 0.5V **Operable Temperature (Topr):** –40°C Min, 85°C Max. **Frequency Stability:** AV: Ta=–20 to 70°C, AV: ±20 Max. **Frequency Adjustment Range:** K=±75ppm. **Frequency Control Sensitivity:** VC= 2.5±2.0V, ±10%. **Supply Current:** V_{DD}=5.0V, No Load, 13mA Max. **Start-Up Time:** V_{DD}=4.5V to be 0 sec., 10 msec Max. **Duty:** 1/2 V_{DD} Level, 40% Min, 60% Max. **High Output Voltage:** IOH=-0.8mA, V_{DD}–0.4V. **Low Output Voltage:** IOL=0.8mA, 0.4V Max. **Output Rise Time:** 20% to 80% V_{DD} Level, 3 Typical, 8nS. **Output Fall Time:** 80% to 20% V_{DD} Level 3 Typical, 8nS.

MA-306



SPECIFICATIONS:

Storage Temperature: –55°C to +100°C, Stored as naked product after unpacking. **Operating Temperature:** –20°C to +70°C. **Maximum Drive Level:** 2mW Max. **Recommended Drive Level:** 10µW to 100µW. **Frequency Tolerance (standard):** ±100ppm. **Frequency Temperature Characteristics (standard):** ±30ppm, –20°C to +70°C, DL=100µW. **Load Capacitance:** 18pF. **Series Resistance:** 60Ω Max., –20°C to +70°C, DL=100µW. **Shunt Capacitance:** 5pF Max. **Aging:** ±5ppm/Y Max.

Series	Freq. (MHz)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel Pricing 1,000	Epson Part No.
			1	10	50	100			
SG636PCE/ SG636PCV	2.4576	SE2801CT-ND	4.38	37.50	156.25	281.25	SE2801TR-ND	2080.00	SG-636PCE 2.4576MC0
	3.6864	SE2806CT-ND	4.38	37.50	156.25	281.25	SE2806TR-ND	2080.00	SG-636PCE 3.6864MC0
	4.0000	SE2807CT-ND	4.38	37.50	156.25	281.25	SE2807TR-ND	2080.00	SG-636PCE 4.0000MC0
	5.000	SE2810CT-ND	4.38	37.50	156.25	281.25	SE2810TR-ND	2080.00	SG-636PCE 5.0000MC0
	6.000	SE2812CT-ND	4.38	37.50	156.25	281.25	SE2812TR-ND	2080.00	SG-636PCE 6.0000MC0
	8.0000	SE2815CT-ND	4.38	37.50	156.25	281.25	SE2815TR-ND	2080.00	SG-636PCE 8.0000MC0
	8.192	SE2816CT-ND	4.38	37.50	156.25	281.25	SE2816TR-ND	2080.00	SG-636PCE 8.1920MC0
	10.000	SE2818CT-ND	4.38	37.50	156.25	281.25	SE2818TR-ND	2080.00	SG-636PCE 10.0000MC0
	10.240	SE2819CT-ND	4.38	37.50	156.25	281.25	SE2819TR-ND	2080.00	SG-636PCE 10.2400MC0
	12.000	SE2822CT-ND	4.38	37.50	156.25	281.25	SE2822TR-ND	2080.00	SG-636PCE 12.0000MC0
	14.7456	SE2825CT-ND	4.38	37.50	156.25	281.25	SE2825TR-ND	2080.00	SG-636PCE 14.7456MC0
	15.000	SE2826CT-ND	4.38	37.50	156.25	281.25	SE2826TR-ND	2080.00	SG-636PCE 15.0000MC0
	16.000	SE2827CT-ND	4.38	37.50	156.25	281.25	SE2827TR-ND	2080.00	SG-636PCE 16.0000MC0
	18.432	SE2830CT-ND	4.38	37.50	156.25	281.25	SE2830TR-ND	2080.00	SG-636PCE 18.4320MC0
	20.000	SE2833CT-ND	4.38	37.50	156.25	281.25	SE2833TR-ND	2080.00	SG-636PCE 20.0000MC0
	24.000	SE2836CT-ND	4.38	37.50	156.25	281.25	SE2836TR-ND	2080.00	SG-636PCE 24.0000MC0
	25.000	SE2837CT-ND	4.38	37.50	156.25	281.25	SE2837TR-ND	2080.00	SG-636PCE 25.0000MC0
	25.175	SE2838CT-ND	4.38	37.50	156.25	281.25	SE2838TR-ND	2080.00	SG-636PCE 25.1750MC0
	27.000	SE2839CT-ND	4.38	37.50	156.25	281.25	SE2839TR-ND	2080.00	SG-636PCE 27.0000MC0
	29.491	SE2842CT-ND	4.38	37.50	156.25	281.25	SE2842TR-ND	2080.00	SG-636PCE 29.4912MC0
	30.000	SE2843CT-ND	4.38	37.50	156.25	281.25	SE2843TR-ND	2080.00	SG-636PCE 30.0000MC0
	32.000	SE2844CT-ND	4.38	37.50	156.25	281.25	SE2844TR-ND	2080.00	SG-636PCE 32.0000MC0
	33.000	SE2847CT-ND	4.38	37.50	156.25	281.25	SE2847TR-ND	2080.00	SG-636PCE 33.0000MC0
	33.333	SE2848CT-ND	4.38	37.50	156.25	281.25	SE2848TR-ND	2080.00	SG-636PCE 33.3333MC0
	36.000	SE2849CT-ND	4.38	37.50	156.25	281.25	SE2849TR-ND	2080.00	SG-636PCE 36.0000MC0
	38.000	SE2850CT-ND	4.38	37.50	156.25	281.25	SE2850TR-ND	2080.00	SG-636PCE 38.0000MC0
	40.000	SE2851CT-ND	4.38	37.50	156.25	281.25	SE2851TR-ND	2080.00	SG-636PCE 40.0000MC0
	55.000	SE2855CT-ND	6.15	51.25	180.00	325.00	SE2855TR-ND	2700.00	SG-636PCV 55.000MC0
	66.000	SE2859CT-ND	6.15	51.25	180.00	325.00	—	—	SG-636PCV 66.000MC0
	66.666	SE2860CT-ND	6.15	51.25	180.00	325.00	—	—	SG-636PCV 66.6667MC0
VG1011JA	12.288	SE3601CT-ND	15.96	136.80	570.00	1026.00	SE3601TR-ND	7600.00	VG-1011JA 12.2880MAVK0
	16.384	SE3603CT-ND	15.96	136.80	570.00	1026.00	SE3603TR-ND	7600.00	VG-1011JA 16.3840MAVK0
	19.200	SE3605CT-ND	15.96	136.80	570.00	1026.00	SE3605TR-ND	7600.00	VG-1011JA 19.2000MAVK0
	27.000	SE3607CT-ND	15.96	136.80	570.00	1026.00	SE3607TR-ND	7600.00	VG-1011JA 27.0000MAVK0
MA-306	18.000	SE2701CT-ND	2.14	18.30	76.25	137.25	SE2701TR-ND	1020.00	MA-306 18.0000M-C0
	18.432	SE2702CT-ND	2.14	18.30	76.25	137.25	SE2702TR-ND	1020.00	MA-306 18.4320M-C0
	19.660	SE2704CT-ND	2.14	18.30	76.25	137.25	SE2704TR-ND	1020.00	MA-306 19.6608M-C0
	20.000	SE2705CT-ND	2.14	18.30	76.25	137.25	SE2705TR-ND	1020.00	MA-306 20.0000M-C0
	22.118	SE2707CT-ND	2.14	18.30	76.25	137.25	SE2707TR-ND	1020.00	MA-306 22.1180M-C0
	24.000	SE2708CT-ND	2.14	18.30	76.25	137.25	SE2708TR-ND	1020.00	MA-306 24.0000M-C0
	24.576	SE2709CT-ND	2.14	18.30	76.25	137.25	SE2709TR-ND	1020.00	MA-306 24.5760M-C0
	25.000	SE2710CT-ND	2.14	18.30	76.25	137.25	SE2710TR-ND	1020.00	MA-306 25.0000M-C0
	25.175	SE2711CT-ND	2.14	18.30	76.25	137.25	SE2711TR-ND	1020.00	MA-306 25.1750M-C0
	27.000	SE2712CT-ND	2.14	18.30	76.25	137.25	SE2712TR-ND	1020.00	MA-306 27.0000M-C0
	28.000	SE2713CT-ND	2.14	18.30	76.25	137.25	SE2713TR-ND	1020.00	MA-306 28.0000M-C0
	28.636	SE2715CT-ND	2.14	18.30	76.25	137.25	SE2715TR-ND	1020.00	MA-306 28.63636M-C0
	29.491	SE2716CT-ND	2.14	18.30	76.25	137.25	SE2716TR-ND	1020.00	MA-306 29.4912M-C0
	32.000	SE2718CT-ND	2.14	18.30	76.25	137.25	SE2718TR-ND	1020.00	MA-306 32.0000M-C0
	40.000	SE2725CT-ND	2.14	18.30	76.25	137.25	SE2725TR-ND	1020.00	MA-306 40.0000M-C0

EPSON ELECTRONICS
AMERICA, INC.

Cylinder-Type Quartz Crystals

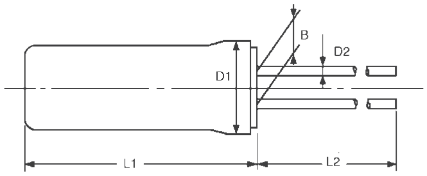
C-Type/C-2-Type

SPECIFICATIONS FOR C-TYPE (Characteristics):

• **Nominal Frequency:** 32.768KHz • **Operating Temperature:** -10°C ~ +60°C • **Maximum Drive Level:** 1.0µW Max. • **Frequency Tolerance (Standard):** ±20ppm • **Load Capacitance:** (SE3201, SE3202, SE3203) 12.5pf; (SE3204) 9pf • **Series Resistance:** C-001R – 35KΩ Max. (18KΩ Typ.); C-002RX and C-004R – 50KΩ Max. (30KΩ Typ.); and C-005R – 50KΩ Max. (37KΩ Typ.)

SPECIFICATIONS FOR C-2-TYPE (Characteristics):

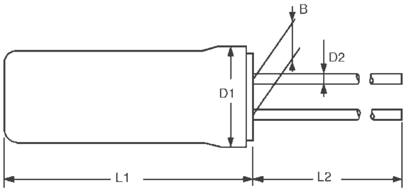
• **Operating Temperature:** -10°C ~ +60°C • **Max. Drive Level:** 1.0µW Max. • **Crystal Load Capacitance/Tolerance:** All parts have 11 pfd. load capacitance, ±100 ppm except: **(SE3307)** C-2 31.200KI-AG, 7 pfd., ±200 ppm; **(SE3311)** C-2 32.560KH-AG, 7pfd., ±190 ppm; **(SE3314)** C-2 38.000KA-P 12.5 pfd., ±20 ppm • **Series Resistance Over 20KHz and Under 99KHz:** 35KΩ ~ 15KΩ • **Series Resistance Over 100KHz and Under 200KHz:** 12KΩ ~ 8KΩ.



Model	L_1	L_2	D_1	D_2	B
C-2-Type	6.2 MAX	4.0 MIN	ø2.0 MAX	ø0.2	0.6
C-001R	8.0 MAX	9.0 MIN	ø3.1 MAX	ø0.3	1.1
C-002RX	6.0 MAX	4.0 MIN	ø2.0 MAX	ø0.2	0.6
C-004R	5.0 MAX	4.0 MIN	ø1.5 MAX	ø0.18	0.5
C-005R	4.6 MAX	4.0 MIN	ø1.2 MAX	ø0.15	0.3

CA-301 Type

SPECIFICATIONS (Characteristics):
• **Operating Temperature:** -20°C ~ +70°C • **Maximum Drive Level:** 2mW Max. • **Recommended Level:** 10µW ~ 100µW Typ. • **Frequency Tolerance (Standard):** ±30ppm • **Load Capacitance:** 18 pfd • **Series Resistance:** As per table below.



Model	L_1	L_2	D_1	D_2	B
Under 5.3MHz	10.3 MAX	9.0 MIN	ø3.1 MAX	ø0.3	1.1
Over 5.5 MHz	8.9 MAX	9.0 MIN	ø3.1 MAX	ø0.3	1.1

Frequency (MHz)	Series Resistance (Ω)	Mode
Over 4.0MHz Under 5.3MHz	150 Ω MAX.	Fundamental
Over 5.5MHz Under 6.0MHz	100 Ω MAX.	
Over 6.0MHz Under 10.0MHz	80 Ω MAX.	
Over 10.0MHz Under 12.0MHz	60 Ω MAX.	
Over 12.0MHz Under 16.0MHz	50 Ω MAX.	
Over 16.0MHz Under 26.0MHz	40 Ω MAX.	
Over 26.0MHz Under 36.0MHz	100 Ω MAX.	3rd Overtone
Exceeding 36.0MHz Below 60.0MHz	80 Ω MAX.	

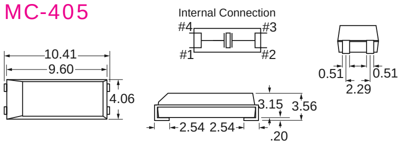
Series	Frequency	Digi-Key Part No.	Pricing 1	10	50	100	1,000	Epson Part No.
C-Type	32.768KHz	SE3201-ND	.27	2.25	7.71	14.14	115.71	C-001R 32.7680K-A
	32.768KHz	SE3202-ND	.27	2.25	7.71	14.14	115.71	C-002RX 32.7680K-A
	32.768KHz	SE3203-ND	1.38	11.50	41.00	74.00	620.00	C-004R 32.7680K-A
	32.768KHz	SE3204-ND	5.64	47.00	166.50	300.00	2500.01	C-005R 32.7680K-AC
C-2 Type	20.000KHz	SE3301-ND	1.23	10.25	36.50	66.00	550.00	C-2 20.0000K-P
	25.600KHz	SE3302-ND	1.23	10.25	36.50	66.00	550.00	C-2 25.6000K-P
	26.667KHz	SE3303-ND	1.23	10.25	36.50	66.00	550.00	C-2 26.6670K-P
	28.000KHz	SE3304-ND	1.23	10.25	36.50	66.00	550.00	C-2 28.0000K-P
	30.000KHz	SE3305-ND	1.23	10.25	36.50	66.00	550.00	C-2 30.0000K-P
	30.760KHz	SE3306-ND	1.23	10.25	36.50	66.00	550.00	C-2 30.7600K-P
	31.250KHz	SE3308-ND	1.23	10.25	36.50	66.00	550.00	C-2 31.2500K-P
	31.500KHz	SE3309-ND	1.23	10.25	36.50	66.00	550.00	C-2 31.5000K-P
	32.000KHz	SE3310-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.0000K-P
	32.560KHz	SE3311-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.5600KH-AG
	32.919KHz	SE3312-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.9190KC-P
	36.000KHz	SE3313-ND	1.23	10.25	36.50	66.00	550.00	C-2 36.0000K-P
	38.000KHz	SE3314-ND	1.35	11.25	36.50	66.00	550.00	C-2 38.0000KA-P
	38.400KHz	SE3315-ND	1.23	10.25	36.50	66.00	550.00	C-2 38.4000K-P
	40.000KHz	SE3316-ND	1.23	10.25	36.50	66.00	550.00	C-2 40.0000K-P
	46.6084KHz	SE3317-ND	1.23	10.25	36.50	66.00	550.00	C-2 46.6084KC-P
	50.000KHz	SE3318-ND	1.23	10.25	36.50	66.00	550.00	C-2 50.0000K-P
	60.000KHz	SE3320-ND	1.23	10.25	36.50	66.00	550.00	C-2 60.0000K-P
	60.002KHz	SE3321-ND	1.23	10.25	36.50	66.00	550.00	C-2 60.0020KC-P
	65.535KHz	SE3322-ND	1.23	10.25	36.50	66.00	550.00	C-2 65.5350K-P
	75.000KHz	SE3323-ND	1.23	10.25	36.50	66.00	550.00	C-2 75.0000K-P
	76.800KHz	SE3324-ND	1.23	10.25	36.50	66.00	550.00	C-2 76.8000K-P
	83.000KHz	SE3330-ND	1.47	12.25	43.50	78.00	650.00	C-2 83.0000K-P
	96.000KHz	SE3331-ND	1.47	12.25	43.50	78.00	650.00	C-2 96.0000K-P
	100.000KHz	SE3333-ND	1.47	12.25	43.50	78.00	650.00	C-2 100.0000K-P
	111.000KHz	SE3334-ND	1.47	12.25	43.50	78.00	650.00	C-2 111.0000K-P
	120.000KHz	SE3335-ND	1.47	12.25	43.50	78.00	650.00	C-2 120.0000K-P
	120.8475KHz	SE3336-ND	1.47	12.25	43.50	78.00	650.00	C-2 120.8475K-P
	131.072KHz	SE3337-ND	1.77	14.75	52.00	94.00	780.00	C-2 131.0720K-P
	149.475KHz	SE3338-ND	1.77	14.75	52.00	94.00	780.00	C-2 149.4750K-P
CA-301 Type	4.0000MHz	SE3404-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.0000M-C
	4.194304MHz	SE3405-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.194304M-C
	4.433619MHz	SE3406-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.433619M-C
	4.9152MHz	SE3407-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.9152M-C
	5.500MHz	SE3408-ND	.96	8.00	27.90	50.87	426.67	CA-301 5.5000M-C
	6.000MHz	SE3409-ND	.96	8.00	27.90	50.87	426.67	CA-301 6.000M-C
	6.144MHz	SE3410-ND	.96	8.00	27.90	50.87	426.67	CA-301 6.1440M-C
	6.757MHz	SE3411-ND	.96	8.00	27.90	50.87	426.67	CA-301 6.7570M-C
	7.200MHz	SE3412-ND	.96	8.00	27.90	50.87	426.67	CA-301 7.200M-C
	7.3728MHz	SE3413-ND	.96	8.00	27.90	50.87	426.67	CA-301 7.372M-C
	8.000MHz	SE3414-ND	.96	8.00	27.90	50.87	426.67	CA-301 8.000M-C
	8.388608MHz	SE3415-ND	.96	8.00	27.90	50.87	426.67	CA-301 8.388M-C
	8.432MHz	SE3416-ND	.96	8.00	27.90	50.87	426.67	CA-301 8.432M-C
	9.600MHz	SE3418-ND	.96	8.00	27.90	50.87	426.67	CA-301 9.600M-C
	9.8304MHz	SE3419-ND	.96	8.00	27.90	50.87	426.67	CA-301 9.830M-C
	10.000MHz	SE3420-ND	.96	8.00	27.90	50.87	426.67	CA-301 10.0000M-C
	10.240MHz	SE3421-ND	.96	8.00	27.90	50.87	426.67	CA-301 10.2400M-C
	10.6244MHz	SE3422-ND	.96	8.00	27.90	50.87	426.67	CA-301 10.6244M-C
	11.0592MHz	SE3423-ND	.96	8.00	27.90	50.87	426.67	CA-301 11.0592M-C
	12.000MHz	SE3424-ND	.96	8.00	27.90	50.87	426.67	CA-301 12.0000M-C
	12.096MHz	SE3425-ND	.96	8.00	27.90	50.87	426.67	CA-301 12.0960M-C
	12.288MHz	SE3426-ND	.96	8.00	27.90	50.87	426.67	CA-301 12.2880M-C
	13.500MHz	SE3427-ND	.96	8.00	27.90	50.87	426.67	CA-301 13.5000M-C
	14.000MHz	SE3428-ND	.96	8.00	27.90	50.87	426.67	CA-301 14.0000M-C
	14.31818MHz	SE3429-ND	.96	8.00	27.90	50.87	426.67	CA-301 14.31818M-C
	14.500MHz	SE3430-ND	.96	8.00	27.90	50.87	426.67	CA-301 14.500M-C
	14.7456MHz	SE3431-ND	.96	8.00	27.90	50.87	426.67	CA-301 14.7456M-C
	15.000MHz	SE3432-ND	.96	8.00	27.90	50.87	426.67	CA-301 15.000M-C
	16.000MHz	SE3433-ND	.96	8.00	27.90	50.87	426.67	CA-301 16.0000M-C
	18.000MHz	SE3435-ND	.96	8.00	27.90	50.87	426.67	CA-301 18.0000M-C
	18.432MHz	SE3436-ND	.96	8.00	27.90	50.87	426.67	CA-301 18.4320M-C
	19.6608MHz	SE3437-ND	.96	8.00	27.90	50.87	426.67	CA-301 19.6608M-C
	20.000MHz	SE3438-ND	.96	8.00	27.90	50.87	426.67	CA-301 20.0000M-C
	22.1184MHz	SE3439-ND	.96	8.00	27.90	50.87	426.67	CA-301 22.1184M-C
	24.000MHz	SE3440-ND	.96	8.00	27.90	50.87	426.67	CA-301 24.0000M-C
	25.000MHz	SE3441-ND	.96	8.00	27.90	50.87	426.67	CA-301 25.0000M-C
	25.175MHz	SE3442-ND	.96	8.00	27.90	50.87	426.67	CA-301 25.1750M-C
	27.000MHz	SE3443-ND	.96	8.00	28.00	50.40	424.00	CA-301 27.0000M-C:(FUND)
	28.000MHz	SE3444-ND	.96	8.00	28.00	50.40	424.00	CA-301 28.0000M-C:(FUND)
	28.322MHz	SE3445-ND	.96	8.00	28.00	50.40	424.00	CA-301 28.3220M-C:(FUND)
	32.000MHz	SE3446-ND	.96	8.00	28.00	50.40	424.00	CA-301 32.0000M-C
	32.768MHz	SE3447-ND	.96	8.00	28.00	50.40	424.00	CA-301 32.7680M-C
	33.000MHz	SE3448-ND	.96	8.00	28.00	50.40	424.00	CA-301 33.0000M-C
	33.333MHz	SE3449-ND	.96	8.00	28.00	50.40	424.00	CA-301 33.3330M-C
	36.000MHz	SE3450-ND	.96	8.00	28.00	50.40	424.00	CA-301 36.0000M-C
	40.000MHz	SE3451-ND	.96	8.00	28.00	50.40	424.00	CA-301 40.0000M-C
	46.000MHz	SE3453-ND	.96	8.00	28.00	50.40	424.00	CA-301 46.0000M-C
	49.860MHz	SE3454-ND	.96	8.00	28.00	50.40	424.00	CA-301 49.8600M-C
	50.000MHz	SE3455-ND	.96	8.00	28.00	50.40	424.00	CA-301 50.0000M-C
	55.000MHz	SE3456-ND	.96	8.00	28.00	50.40	424.00	CA-301 55.0000M-C
	60.000MHz	SE3457-ND	1.11	9.25	31.84	57.65	481.86	CA-301 60.000M-C

EPSON ELECTRONICS
AMERICA, INC.

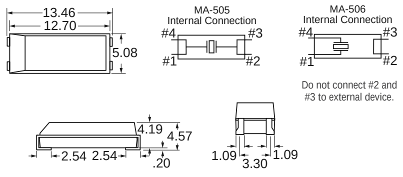
Surface-Mount Quartz Crystal Products

Storage Temperature: –55°C to +125°C.

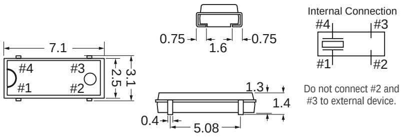
MC-405



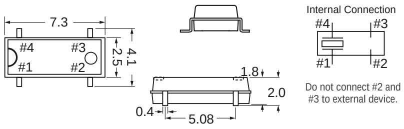
MA-505/MA-506



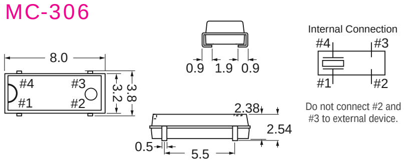
MC-156



MC-206

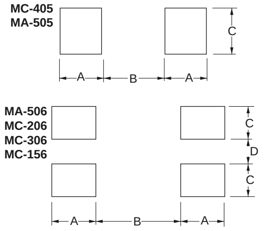


MC-306



Recommended Soldering Pattern

- Capable of withstanding reflow temperatures of 260°C for 20 seconds
- Suitable for use in today's high density surface mount boards



Type	Dimensions (mm)			
	A	B	C	D
MC-405	4.09	3.91	4.09	—
MA-505	4.09	7.01	5.61	—
MA-506	4.09	6.86	2.06	1.52
MC-156	1.2	3.88	1.5	1.0
MC-206	1.2	3.88	1.3	2.4
MC-306	1.3	4.2	1.9	1.3

Series	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T/R Pricing 1,000	Epson Part No.
MC-405	32.768kHz	SE2405CT-ND	.95	.81	.68	.61	SE2405TR-ND	450.00	MC-405 32.7680K-A0
MA-505	4.000	SE2518CT-ND	2.80	2.40	2.00	1.80	SE2518TR-ND	1330.00	MA-505 4.0000M-C0
	4.096	SE2519CT-ND	2.80	2.40	2.00	1.80	SE2519TR-ND	1330.00	MA-505 4.0960M-C0
	4.915	SE2520CT-ND	2.80	2.40	2.00	1.80	SE2520TR-ND	1330.00	MA-505 4.9152M-C0
	6.000	SE2501CT-ND	1.12	.96	.80	.72	SE2501TR-ND	530.00	MA-505 6.0000M-C0
	7.3728	SE2503CT-ND	1.12	.96	.80	.72	SE2503TR-ND	530.00	MA-505 7.3728M-C0
	8.000	SE2504CT-ND	1.12	.96	.80	.72	SE2504TR-ND	530.00	MA-505 8.0000M-C0
	9.830	SE2524CT-ND	1.12	.96	.80	.72	SE2524TR-ND	530.00	MA-505 9.8304M-C0
	10.000	SE2505CT-ND	1.12	.96	.80	.72	SE2505TR-ND	530.00	MA-505 10.0000M-C0
	10.240	SE2525CT-ND	1.12	.96	.80	.72	SE2525TR-ND	530.00	MA-505 10.2400M-C0
	11.0592	SE2506CT-ND	1.12	.96	.80	.72	SE2506TR-ND	530.00	MA-505 11.0592M-C0
	12.000	SE2507CT-ND	1.12	.96	.80	.72	SE2507TR-ND	530.00	MA-505 12.0000M-C0
	14.318	SE2528CT-ND	1.12	.96	.80	.72	SE2528TR-ND	530.00	MA-505 14.3180M-C0
	14.745	SE2529CT-ND	1.12	.96	.80	.72	SE2529TR-ND	530.00	MA-505 14.7456M-C0
	16.000	SE2508CT-ND	1.12	.96	.80	.72	SE2508TR-ND	530.00	MA-505 16.0000M-C0
	18.432	SE2533CT-ND	1.12	.96	.80	.72	SE2533TR-ND	530.00	MA-505 18.4320M-C0
	19.660	SE2535CT-ND	1.12	.96	.80	.72	SE2535TR-ND	530.00	MA-505 19.6600M-C0
	20.000	SE2509CT-ND	1.12	.96	.80	.72	SE2509TR-ND	530.00	MA-505 20.0000M-C0
	24.000	SE2510CT-ND	1.12	.96	.80	.72	SE2510TR-ND	530.00	MA-505 24.0000M-C0
	24.576	SE2538CT-ND	1.12	.96	.80	.72	SE2538TR-ND	530.00	MA-505 24.5760M-C0
	25.000	SE2539CT-ND	1.12	.96	.80	.72	SE2539TR-ND	530.00	MA-505 25.0000M-C0
	29.491	SE2543CT-ND	1.12	.96	.80	.72	SE2543TR-ND	530.00	MA-505 29.4912M-C0
	30.000	SE2544CT-ND	1.12	.96	.80	.72	SE2544TR-ND	530.00	MA-505 30.0000M-C0
	32.768	SE2546CT-ND	1.12	.96	.80	.72	SE2546TR-ND	530.00	MA-505 32.7680M-C0
	33.3333	SE2514CT-ND	1.12	.96	.80	.72	SE2514TR-ND	530.00	MA-505 33.3330M-C0
	36.000	SE2548CT-ND	1.12	.96	.80	.72	SE2548TR-ND	530.00	MA-505-36.0000M-C0
	40.000	SE2515CT-ND	1.12	.96	.80	.72	SE2515TR-ND	530.00	MA-505 40.0000M-C0
MA-506	4.000	SE2618CT-ND	2.80	2.40	2.00	1.80	SE2618TR-ND	1330.00	MA-506 4.0000M-C0
	4.096	SE2619CT-ND	2.80	2.40	2.00	1.80	SE2619TR-ND	1330.00	MA-506 4.0960M-C0
	4.915	SE2620CT-ND	2.80	2.40	2.00	1.80	SE2620TR-ND	1330.00	MA-506 4.9152M-C0
	6.000	SE2601CT-ND	1.12	.96	.80	.72	SE2601TR-ND	530.00	MA-506 6.0000M-C0
	6.144	SE2602CT-ND	1.12	.96	.80	.72	SE2602TR-ND	530.00	MA-506 6.1440M-C0
	7.3728	SE2603CT-ND	1.12	.96	.80	.72	SE2603TR-ND	530.00	MA-506 7.3728M-C0
	8.000	SE2604CT-ND	1.12	.96	.80	.72	SE2604TR-ND	530.00	MA-506 8.0000M-C0
	9.830	SE2624CT-ND	1.12	.96	.80	.72	SE2624TR-ND	530.00	MA-506 9.8300M-C0
	10.000	SE2605CT-ND	1.12	.96	.80	.72	SE2605TR-ND	530.00	MA-506 10.0000M-C0
	10.240	SE2625CT-ND	1.12	.96	.80	.72	SE2625TR-ND	530.00	MA-506 10.2400M-C0
	11.000	SE2626CT-ND	1.12	.96	.80	.72	SE2626TR-ND	530.00	MA-506 11.0000M-C0
	11.0592	SE2606CT-ND	1.12	.96	.80	.72	SE2606TR-ND	530.00	MA-506 11.0592M-C0
	12.000	SE2607CT-ND	1.12	.96	.80	.72	SE2607TR-ND	530.00	MA-506 12.0000M-C0
	12.288	SE2627CT-ND	1.12	.96	.80	.72	SE2627TR-ND	530.00	MA-506 12.2880M-C0
	14.318	SE2628CT-ND	1.12	.96	.80	.72	SE2628TR-ND	530.00	MA-506 14.31818M-C0
	14.745	SE2629CT-ND	1.12	.96	.80	.72	SE2629TR-ND	530.00	MA-506 14.7456M-C0
	15.000	SE2630CT-ND	1.12	.96	.80	.72	SE2630TR-ND	530.00	MA-506 15.0000M-C0
	16.000	SE2608CT-ND	1.12	.96	.80	.72	SE2608TR-ND	530.00	MA-506 16.0000M-C0
	16.257	SE2631CT-ND	1.12	.96	.80	.72	SE2631TR-ND	530.00	MA-506 16.2570M-C0
	18.000	SE2632CT-ND	1.12	.96	.80	.72	SE2632TR-ND	530.00	MA-506 18.0000M-C0
	18.432	SE2633CT-ND	1.12	.96	.80	.72	SE2633TR-ND	530.00	MA-506 18.4320M-C0
	19.660	SE2635CT-ND	1.12	.96	.80	.72	SE2635TR-ND	530.00	MA-506 19.6608M-C0
	20.000	SE2609CT-ND	1.12	.96	.80	.72	SE2609TR-ND	530.00	MA-506 20.0000M-C0
	20.480	SE2636CT-ND	1.12	.96	.80	.72	SE2636TR-ND	530.00	MA-506 20.4800M-C0
	22.118	SE2637CT-ND	1.12	.96	.80	.72	SE2637TR-ND	530.00	MA-506 22.1184M-C0
	24.000	SE2610CT-ND	1.12	.96	.80	.72	SE2610TR-ND	530.00	MA-506 24.0000M-C0
	24.576	SE2638CT-ND	1.12	.96	.80	.72	SE2638TR-ND	530.00	MA-506 24.5760M-C0
	25.000	SE2639CT-ND	1.12	.96	.80	.72	SE2639TR-ND	530.00	MA-506 25.0000M-C0
	27.000	SE2641CT-ND	1.12	.96	.80	.72	SE2641TR-ND	530.00	MA-506 27.0000M-C0
	28.636	SE2642CT-ND	1.12	.96	.80	.72	SE2642TR-ND	530.00	MA-506 28.6360M-C0
	33.000	SE2647CT-ND	1.12	.96	.80	.72	SE2647TR-ND	530.00	MA-506 33.0000M-C0
	40.000	SE2615CT-ND	1.12	.96	.80	.72	SE2615TR-ND	530.00	MA-506 40.0000M-C0
	48.000	SE2651CT-ND	1.12	.96	.80	.72	SE2651TR-ND	530.00	MA-506 48.0000M-C0
	50.000	SE2616CT-ND	1.12	.96	.80	.72	SE2616TR-ND	530.00	MA-506 50.0000M-C0
	64.000	SE2653CT-ND	1.23	1.05	.88	.79	SE2653TR-ND	530.00	MA-506 64.0000M-C0
MC-156	32.768KHz	SE2412CT-ND	1.30	1.11	.93	.84	SE2412TR-ND	620.00	MC-156 32.7680KA-A2
MC-206	32.768KHz	SE2406CT-ND	1.23	1.05	.88	.79	SE2406TR-ND	580.00	MC-206 32.7680KA-A2
MC-306	32.768KHz	SE2407CT-ND	.95	.81	.68	.61	SE2407TR-ND	450.00	MC-306 32.7680K-A0

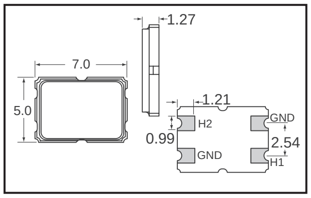
Package	MC-405	MA-505	MA-506	MC-156	MC-206	MC-306
Operating Temperature	-40°C to +85°C	-20°C to +70°C	-20°C to +70°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Maximum Drive Level	1.0µW	2mW	2mW	1.0µW	1.0µW	1.0µW
Frequency Tolerance	±20ppm @ 25°C	±50ppm @ 25°C	±50ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C
Load Capacitance	12.5pf	18pf	18pf	12.5pf	12.5pf	12.5pf
Series Resistance	50K Ohm Max.	50 Ohm Max.	50 Ohm Max.	65K Ohm Max.	50K Ohm Max.	50K Ohm Max.
Shunt Capacitance	0.85pf Typ.	5pf Max.	5pf Max.	—	0.9pf max.	0.9pf Max.

CTS

Surface Mount Reference Crystal

Features:
- Stable frequency over temperature and drive level
- Low Profile Seam Weld Package
- For use in cellular handsets, 2-way radios, pagers and other portable electronics requiring a stable frequency source

Specifications:
- Mode of Vibration: Fundamental
- Storage Temperature Range: -40°C to 85°C
- Frequency Stability over Temperature: ±15PPM (-10°C to 50°C)
- Frequency Make Tolerance: ±10PPM @25°C +/-3°C
- Resonance Resistance: 30Ω Max.
- Drive Level: 10µW Max.
- Load Capacitance: 12pf
- Shunt Capacitance: 5.0pf Max.
- Aging: +/-2PPM /Yr @25°C



Nom. Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T&R Pricing* 1,000	CTS Part No.
14.40	12pF	410-1000-1-ND	5.99	5.52	3.17	1675.06	KXN6489B

*For Tape and Reel Part No., change –1 to –2.

Surface Mount Crystals

Fig. 1

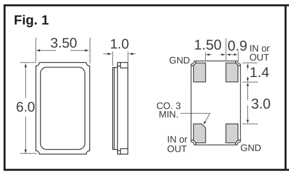
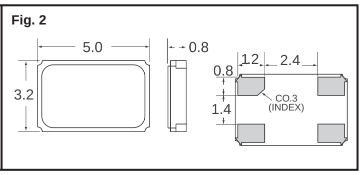


Fig. 2



Features:
- Stable frequency over temperature and drive level
- Low Profile Seam Weld Package
- Optional machine readable crystal temperature characteristics
- For use in GSM handsets, 2-way radios, pagers, and other portable electronics requiring a stable frequency source

Specifications:
- Storage Temperature Range: -40°C to 85°C
- Frequency Stability over Temperature: ±11PPM (-30°C to 85°C)
- Frequency Make Tolerance: ±10PPM @ 25°C +/-3°C

Fig.	Nom. Frequency (MHz.)	Max. Drive Level (µW)	Load Capacitance (pF)	Max. Shunt Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T&R Pricing* 1,000	CTS Part No.
1	13.0	100	10.0	1.3	410-1001-1-ND	5.94	5.47	3.14	1661.76	ATXN6077A
	26.0	100	9.0	4.0	410-1002-1-ND	5.80	5.34	3.07	1621.88	ATXN6040D
2	26.0	300	9.5	4.0	410-1003-1-ND	5.80	5.34	3.07	1621.88	ATXN6073A

*For Tape and Reel Part No., change –1 to –2.

Surface Mount Crystal Filters

Fig. 1

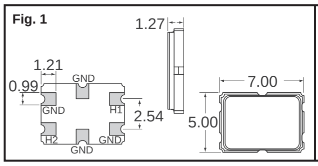
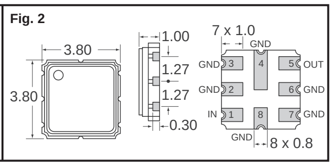


Fig. 2



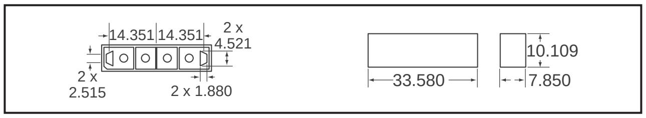
Features: 3-Pole IF Filter Performance • Low Profile Seam Weld Package • For use in analog wireless telecommunications equipment • Excellent Shock and Vibration Capability

Specifications	ATFN6036A	ATFN6033A	ATFN6024A
Operating Temp Range:	-30°C to +80°C	-30°C to +85°C	-40°C to +85°C
Pass Bandwidth:	3dB ±14Khz	3dB ±14Khz	.5dB ±10Khz
Stop Bandwidth:	25dB ±60Khz	25dB ±60Khz	3dB ±25Khz, 22dB ±60Khz

Fig.	Ripple (Max.)	Insert. Loss	Term. Impedance OHMS//pf	FO (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T&R Pricing* 1,000	CTS Part No.
1	1dB	3dB	1200//1.5	45.00	410-1004-1-ND	17.24	15.89	9.12	4825.76	ATFN6036A
2	1dB	3dB	2000//-1.0	85.38	410-1005-1-ND	17.53	16.15	9.27	4905.52	ATFN6033A
	.5dB	2.5dB	2000//-0.6	109.65	410-1006-1-ND	16.86	15.54	8.92	4719.41	ATFN6024A

*For Tape and Reel Part No., change –1 to –2.

Ceramic Monoblock Bandpass Filter



This small, high performance, 4-Pole monoblock filter is designed primarily for TCAS applications at 1090 MHz in the radio navigation band.

Specifications @ 25°C
Frequency: 1087MHz to 1093MHz

Insertion Loss (dB Max.)	Forward Return Loss (dB Min.)	Attenuation Stopbands	Power Rating (W)	Impedance (Ohms)	Digi-Key Part No.	Price Each 1	10	100	CTS Part No.
2.0	12.0	1030MHz @ 35.0dB Min.	1.0	50Ω	410-1021-ND	40.30	35.65	31.00	KFF6402A

Surface Mount VCTCXO

Surface mount Voltage Control Temperature Compensated Crystal Oscillator (VCTCXO) for use in 3G, GSM, TDMA, CDMA, PDA's, Satellite handsets, 2-way radios, Pagers, Analog applications, and other portable electronics requiring a Stable frequency source.

Features:
- Stable Frequency over temperature
- Good SSBN Noise performance

Fig. 1

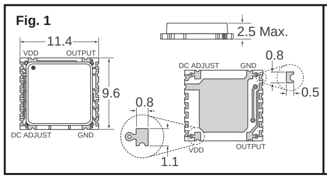


Fig. 2

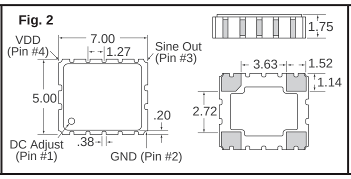


Fig. 3

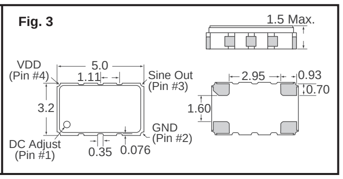


Fig.	Frequency (MHz)	Supply Voltage (Vdd)	Frequency Stability Over Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T&R Pricing* 1,000	2,000	CTS Part No.
1	12.80	A: 3V ± 10%	± 1.5 PPM (-30°C to 80°C)	410-1008-1-ND	18.05	16.63	9.54	5051.76	—	OSC1212A
	13.00	A: 3V ± 10%	± 1.5 PPM (-30°C to 80°C)	410-1009-1-ND	18.05	16.63	9.54	5051.76	—	OSC1213A
	16.80	B: 3V ± 10%	± 2.5 PPM (-30°C to 85°C)	410-1010-1-ND	17.10	15.75	9.04	4785.88	—	OSC1215B
	19.20	B: 3V ± 10%	± 2.5 PPM (-30°C to 85°C)	410-1011-1-ND	17.10	15.75	9.04	4785.88	—	OSC1216B
	19.68	B: 3V ± 10%	± 2.5 PPM (-30°C to 85°C)	410-1012-1-ND	17.10	15.75	9.04	4785.88	—	OSC1217B
2	19.68	2.8V ± 0.14V	± 1.5 PPM (-30°C to 85°C)	410-1013-1-ND	19.00	17.50	10.04	5317.64	—	OSC1623A
	19.20	2.8V ± 0.1V	± 1.5 PPM (-30°C to 85°C)	410-1014-1-ND	19.00	17.50	10.04	5317.64	—	OSC1645A
3	16.80	2.75V ± 0.1V	± 2.0 PPM (-30°C to 85°C)	410-1015-1-ND	18.53	17.07	9.79	—	5184.70/M	OSC1601A
	19.44	2.75V ± 0.1V	± 2.5 PPM (-30°C to 75°C)	410-1016-1-ND	18.53	17.07	9.79	—	5184.70/M	OSC1602A
	26.00	2.75V ± 0.1V	± 3.0 PPM (-20°C to 70°C)	410-1017-1-ND	18.53	17.07	9.79	—	5184.70/M	OSC1604A
	19.20	2.75V ± 0.1V	± 2.5 PPM (-30°C to 80°C)	410-1018-1-ND	18.53	17.07	9.79	—	5184.70/M	OSC1606A

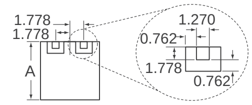
*For Tape and Reel Part No., change –1 to –2.

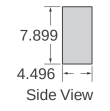
Surface Mount Ceramic Filters

KFF6193A: This 2 pole monoblock filter is primarily designed for ISM applications at 915 MHz.

KFF6338A: This 2 pole monoblock filter is primarily designed for GPS applications at 1575 MHz.

Part No.	A
KFF6193A	8.788
KFF6338	9.271



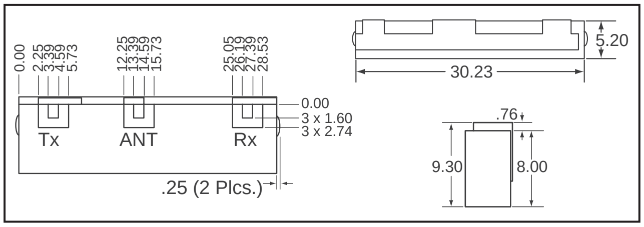


Passband (PB) (MHz)	Insertion Loss in PB (dB)	Return Loss in PB (dB)	Attenuation Stopbands	Power Rating (W)	Nominal Impedance (Ohms)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T&R Pricing* 1,000	CTS Part No.
902 to 928	2.0	10.0	710 MHz @ 30.0 dB Min.	1.0	50Ω	410-1019-1-ND	19.00	17.50	10.04	5317.64	KFF6193A
1570 to 1581	1.5	16.0	1501 MHz @ 7.0 dB Min. 1625 MHz @ 20.0 dB Min.	1.0	50Ω	410-1020-1-ND	17.91	16.50	9.47	5011.88	KFF6338A

*For Tape and Reel Part No., change –1 to –2.

CTS Ceramic Monoblock Duplexer Filters

AMPS Duplexer Surface Mount Ceramic Filter



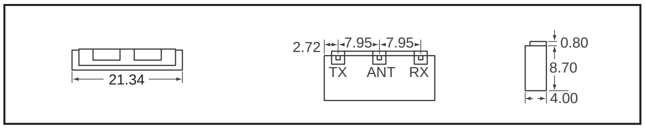
Electrical Specifications: • **Power Rating:** 3W Max.

Antenna to TX Response	Specifications @ 25°C	Typ. Variation –30°C to +85°C
Passband	824-849 MHz	—
Insertion Loss	2.5 dB max.	.2 dB
Return Loss @ TX	10.0 dB min.	1.0 dB
Attenuation @ 779-804 MHz	10.0 dB min.	1.0 dB
Attenuation @ 869-894 MHz	45.0 dB min.	2.0 dB
Antenna to RX Response	**Frequency**	**Specifications @ 25°C**
Passband	869-894 Mhz	—
Insertion Loss	3.3 dB max.	.25 dB
Return Loss @ RX	8.0 dB min.	1.0 dB
Attenuation @ 824-849 MHz	52.0 dB min.	2.0 dB
Attenuation @ 914-939 MHz	20.0 dB min.	1.0 dB
Attenuation @ 959-984 MHz	45.0 dB min.	1.0 dB

Digi-Key	Price Each			T&R Pricing*	CTS
Part No.	1	10	50	160	Part No.
410-1022-1-ND	27.55	25.38	14.56	1233.69	KFF6567A

*For Tape and Reel Part No., change –1 to –2.

Monoblock Duplexer Filter for Cellular Band Applications



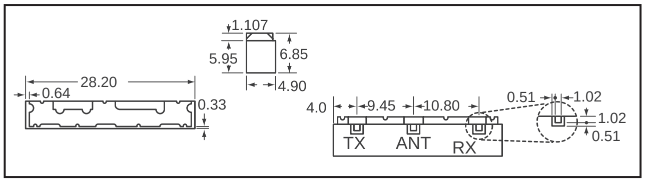
Features: • Small Size SMD • High Performance
Electrical Specifications:
• **Power Rating:** 3W • **Impedance:** 50Ω

Antenna to TX Response	Frequency	Specifications @ 25°C
Insertion Loss	824 MHz to 849 MHz	2.4 dB max.
Return Loss		13.0 dB max.
Rejection @ RX Band	869 MHz to 894 MHz	43.0 dB max.
Antenna to RX Response	**Frequency**	**Specifications @ 25°C**
Insertion Loss	869 MHz to 894 MHz	3.3 dB max.
Return Loss		13.0 dB min.
Rejection @ TX Band	824 MHz to 849 MHz	58.0 dB min.
TX to RX Response	**Frequency**	**Specifications @ 25°C**
Rejection @ RX Band	869 MHz to 894 MHz	44.0 dB min.
Rejection @ TX Band	824 MHz to 849 MHz	60.0 dB min.

Digi-Key	Price Each			T&R Pricing*	CTS
Part No.	1	10	50	500	Part No.
410-1023-1-ND	27.55	25.38	14.56	7250.00	KFF6636A

*For Tape and Reel Part No., change –1 to –2.

Monoblock Duplexer Filter for US PCS Applications



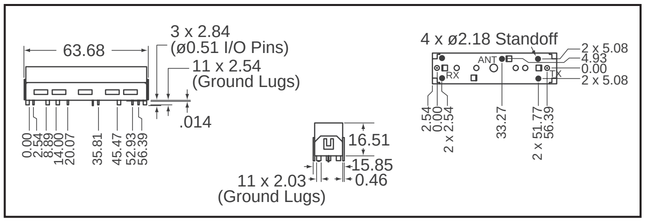
Features: • Small Size SMD • High Performance
Electrical Specifications:
• **Power Rating:** 2W • **Impedance:** 50Ω

Antenna to TX Response	Frequency	Specifications @ 25°C
Insertion Loss	1850 MHz to 1910 MHz	3.4 dB max.
Return Loss @ TX		11.0 dB min.
Return Loss @ ANT		11.0 dB min.
Attenuation	1930 MHz to 1990 MHz	40.0 dB min.
Antenna to RX Response	**Frequency**	**Specifications @ 25°C**
Insertion Loss	1930 MHz to 1990 MHz	3.4 dB max.
Return Loss @ RX		11.0 dB min.
Return Loss @ ANT		11.0 dB min.
Attenuation	1850 MHz to 1910 MHz	47.0 dB min.
TX to RX Response	**Frequency**	**Specifications @ 25°C**
Attenuation	1850 MHz to 1910 MHz	51.0 dB min.
Attenuation	1930 MHz to 1990 MHz	42.0 dB min.

Digi-Key	Price Each			T&R Pricing*	CTS
Part No.	1	10	50	500	Part No.
410-1024-1-ND	27.55	25.38	14.56	3855.29	KFF6666A

*For Tape and Reel Part No., change –1 to –2.

High Power Duplexer for Mobile Applications in the 800 MHz Cellular Band

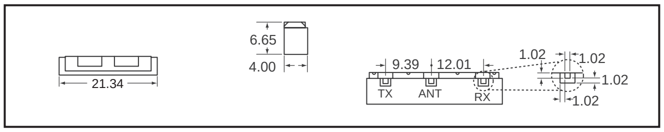


Features: • High Power • Exceptional Performance • Rugged Bracket Mounting
Electrical Specifications:
• **Power Rating:** 5W • **Impedance:** 50Ω

Antenna to TX Response	Frequency	Specifications @ 25°C
Insertion Loss	824 MHz to 849 MHz	2.5 dB max.
Return Loss		9.5 dB min.
Attenuation	869 MHz to 894 MHz	60.0 dB min.
Antenna to RX Response	**Frequency**	**Specifications @ 25°C**
Insertion Loss	869 MHz to 894 MHz	2.5 dB max.
Return Loss		7.5 dB min.
Attenuation	824 MHz to 849 MHz	65.0 dB min.

Digi-Key	Price Each			CTS
Part No.	1	10	100	Part No.
410-1025-ND	44.20	39.10	34.00	KFF6075B

Monoblock Duplexer Filter for US PCS Applications



Features:
• Small size SMD • High Performance

Digi-Key	Price Each			T&R Pricing*	CTS
Part No.	1	10	50	500	Part No.
410-1026-1-ND	27.55	25.38	14.56	3855.29	KFF6637A

*For Tape and Reel Part No., change –1 to –2.

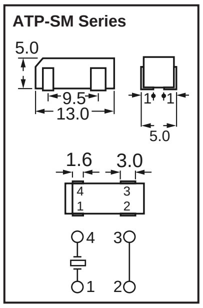
Electrical Specifications:
• **Power Rating:** 3W • **Impedance:** 50Ω

Antenna to TX Response	Frequency	Specifications @ 25°C
Insertion Loss	1850 MHz to 1910 MHz	3.6 dB max.
Return Loss		10.0 dB min.
Rejection @ RX Band	1930 MHz to 1990 MHz	37.0 dB min.
Rejection	1720 MHz to 1780 MHz	25.0 dB min.
Antenna to RX Response	**Frequency**	**Specifications @ 25°C**
Insertion Loss	1930 MHz to 1990 MHz	4.2 dB max.
Return Loss		10.0 dB min.
Rejection @ TX Band	1850 MHz to 1910 MHz	55.0 dB min.
TX to RX Response	**Frequency**	**Specifications @ 25°C**
Rejection @ RX Band	1930 MHz to 1990 MHz	39.0 dB min.
Rejection @ TX Band	1850 MHz to 1910 MHz	56.0 dB min.

CTS ATP-SM Series SMT Crystals

Electrical Specifications:

- **Calibration Tolerance:** ±0.005 ppm @ 25°C
- **Temperature Tolerance:** ±100 ppm
- **Operating Temperature Range:** 0°C to 70°C
- **Drive Level:** 100 Microwatts, typ.
- **Shunt Capacitance:** 7 pF, Max.
- **Aging:** <10 ppm/Yr.

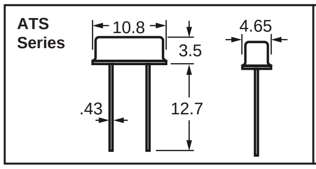


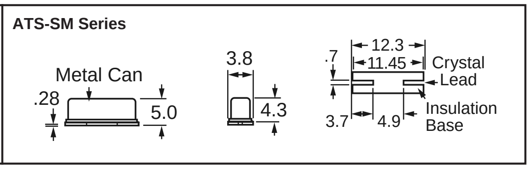
Freq. (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
3.579545	18pf	CTX600-ND	2.89	2.51	2.17	1.51	ATP036SM
3.686400	20pf	CTX601-ND	2.89	2.51	2.17	1.51	ATP037SM
4.000000	20pf	CTX602-ND	2.89	2.51	2.17	1.51	ATP040SM
4.915200	20pf	CTX603-ND	2.89	2.51	2.17	1.51	ATP042SM
5.068800	20pf	CTX604-ND	2.89	2.51	2.17	1.51	ATP050SM
6.000000	20pf	CTX605-ND	2.89	2.51	2.17	1.51	ATP060SM
8.000000	20pf	CTX606-ND	2.89	2.51	2.17	1.51	ATP08ASM
9.830400	20pf	CTX607-ND	2.89	2.51	2.17	1.51	ATP098SM
10.000000	Series	CTX608-ND	2.89	2.51	2.17	1.51	ATP100SM
10.000000	20pf	CTX609-ND	2.89	2.51	2.17	1.51	ATP10ASM
11.05920	20pf	CTX610-ND	2.89	2.51	2.17	1.51	ATP111SM
12.00000	Series	CTX611-ND	2.89	2.51	2.17	1.51	ATP120SM
12.28800	20pf	CTX612-ND	2.89	2.51	2.17	1.51	ATP122SM
14.31818	Series	CTX613-ND	2.89	2.51	2.17	1.51	ATP143SM
15.36000	20pf	CTX614-ND	2.89	2.51	2.17	1.51	ATP153SM
16.00000	Series	CTX615-ND	2.89	2.51	2.17	1.51	ATP160SM
16.00000	20pf	CTX616-ND	2.89	2.51	2.17	1.51	ATP16ASM
20.00000	Series	CTX617-ND	3.15	2.73	2.36	1.64	ATP200SM
20.48000	20pf	CTX618-ND	3.15	2.73	2.48	1.72	ATP204SM
24.57600	Series	CTX619-ND	3.15	2.73	2.48	1.72	ATP245SM

ATS and ATS-SM Series Crystals

Electrical Specifications:

- **Frequency Tolerance:** ±50ppm
- **Shunt Capacitance:** 7.0 pF, Max.
- **Drive Level:** 100 Microwatts
- **Operating Temperature Range:** 0°C to 70°C
- **Operating Mode:** Fundamental





Freq. (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
ATS Series							
3.579545	18pf	CTX400-ND	1.31	1.14	1.03	.72	ATS036
3.686400	20pf	CTX401-ND	1.31	1.14	1.03	.72	ATS037
4.000000	20pf	CTX402-ND	1.31	1.14	1.03	.72	ATS040
4.915200	20pf	CTX403-ND	1.31	1.14	1.03	.72	ATS042
5.068800	20pf	CTX404-ND	1.31	1.14	1.03	.72	ATS050
6.000000	20pf	CTX405-ND	1.31	1.14	1.03	.72	ATS060
8.000000	20pf	CTX406-ND	1.31	1.14	1.03	.72	ATS08A
9.830400	20pf	CTX407-ND	1.31	1.14	1.03	.72	ATS098
10.000000	Series	CTX408-ND	1.31	1.14	1.03	.72	ATS100
11.059200	20pf	CTX409-ND	1.31	1.14	1.03	.72	ATS111
12.000000	Series	CTX410-ND	1.31	1.14	1.03	.72	ATS120
12.288000	20pf	CTX411-ND	1.31	1.14	1.03	.72	ATS122
14.318180	Series	CTX412-ND	1.31	1.14	1.03	.72	ATS143
15.360000	20pf	CTX413-ND	1.31	1.14	1.03	.72	ATS15A
16.000000	Series	CTX414-ND	1.31	1.14	1.03	.72	ATS160
16.000000	20pf	CTX415-ND	1.31	1.14	1.03	.72	ATS16A
20.000000	Series	CTX416-ND	1.31	1.14	1.03	.72	ATS200
20.480000	20pf	CTX417-ND	1.69	1.47	1.33	.92	ATS204
24.576000	Series	CTX418-ND	1.69	1.47	1.33	.92	ATS245
25.000000	Series	CTX419-ND	1.69	1.47	1.33	.92	ATS250
Base Insulator		HC49INS-ND	—	.09	—	.08	700-9001

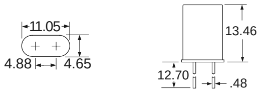
Freq. (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	CTS Part No.
ATS-SM Series — Surface Mount									
3.579545	18pf	CTX500-ND	1.50	1.30	1.13	.79	CTX500TR-ND	540.00	ATS036SM-T
3.686400	20pf	CTX501-ND	1.50	1.30	1.13	.79	CTX501TR-ND	540.00	ATS037SM-T
4.000000	20pf	CTX502-ND	1.50	1.30	1.13	.79	CTX502TR-ND	540.00	ATS040SM-T
4.915200	20pf	CTX503-ND	1.50	1.30	1.13	.79	CTX503TR-ND	540.00	ATS042SM-T
5.068800	20pf	CTX504-ND	1.50	1.30	1.13	.79	CTX504TR-ND	540.00	ATS050SM-T
6.000000	20pf	CTX505-ND	1.50	1.30	1.13	.79	CTX505TR-ND	540.00	ATS060SM-T
8.000000	20pf	CTX506-ND	1.50	1.30	1.13	.79	CTX506TR-ND	540.00	ATS08ASM-T
9.830400	20pf	CTX507-ND	1.50	1.30	1.13	.79	CTX507TR-ND	540.00	ATS098SM-T
10.000000	Series	CTX508-ND	1.50	1.30	1.13	.79	CTX508TR-ND	540.00	ATS100SM-T
11.059200	20pf	CTX509-ND	1.50	1.30	1.13	.79	CTX509TR-ND	540.00	ATS111SM-T
12.000000	Series	CTX510-ND	1.50	1.30	1.13	.79	CTX510TR-ND	540.00	ATS120SM-T
12.288000	20pf	CTX511-ND	1.50	1.30	1.13	.79	CTX511TR-ND	540.00	ATS122SM-T
14.318180	Series	CTX512-ND	1.50	1.30	1.13	.79	CTX512TR-ND	540.00	ATS143SM-T
15.360000	20pf	CTX513-ND	1.50	1.30	1.13	.79	CTX513TR-ND	540.00	ATS15ASM-T
16.000000	Series	CTX514-ND	1.50	1.30	1.13	.79	CTX514TR-ND	540.00	ATS160SM-T
20.000000	Series	CTX515-ND	1.50	1.30	1.13	.79	CTX515TR-ND	540.00	ATS200SM-T
20.480000	20pf	CTX516-ND	1.88	1.63	1.43	1.00	CTX516TR-ND	680.00	ATS204SM-T
24.576000	Series	CTX517-ND	1.88	1.63	1.43	1.00	CTX517TR-ND	680.00	ATS245SM-T

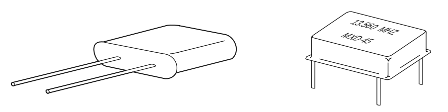
Microprocessor Crystals

- Frequency Tolerance ±.005% (50PPM) @ 25°C
- ±.005% (50PPM) 0°C to +70°C
- Fully Hermetic Package
- Low Start-Up Resistance

HC-49/U Case

Case Style HC-49 has same dimensions as Solder Welded Case HC-18.



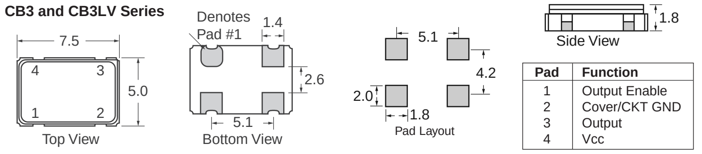


Freq. (MHz)	Case	Load Capacit.	Max. Series Resist.	Digi-Key Part No.	Price Each 1	10	100	Microprocessor	CTS Part No.
1.843200	HC-49/U	13pF	540	CTX067-ND	3.22	2.69	1.97	—	MP018S
2.000000	HC-49/U	20pF	300	CTX068-ND	3.22	2.69	1.97	—	MP020S
2.457600	HC-49/U	32pF	300	CTX069-ND	2.08	1.74	1.27	—	MP024S
3.579545	HC-49/U	18pF	150	CTX049-ND	.94	.79	.57	MM5369 (Color burst); IM6102; PPS-8; MC6801, 6803, MC6802, 6809; CDP1802, 1802C, 1804, 1804C	MP036S
3.686400	HC-49/U	20pF	150	CTX071-ND	.94	.79	.57	—	MP037
4.000000	HC-49/U	20pF	75	CTX006-ND	.94	.79	.57	MCS-40, 4004, 4040, 4201; MC-6802, 6808, 6809; MK-3870, 3872, 3883, 3876; IM 6102; CDP1802, 1802C, 1804, 1804C	MP040
4.000000	HC-49/U	Series	75	CTX080-ND	.94	.79	.57	Pace; MC6875; Z80, Z80A; TMS9940	MP04A
4.194304	HC-49/U	12pF	75	CTX007-ND	.94	.79	.57	ICM7038, 7213, 7049; CDP1802, 1802C, 1804, 1804C	MP041
4.915200	HC-49/U	20pF	75	CTX050-ND	.94	.79	.57	CDP1802, 1802C, 1804, 1804C	MP042
5.000000	HC-49/U	20pF	50	CTX051-ND	.94	.79	.57	General Purpose; CDP1802, 1802C, 1804, 1804C	MP05A
5.000000	HC-49/U	Series	50	CTX081-ND	.94	.79	.57	CDP1802, 1803, 1802C, 1804, 1804C; TMS 9985, 9940; IM6100A	MP05B
5.068800	HC-49/U	Series	50	CTX052-ND	.94	.79	.57	COM5016, 5016T Dual Brg.	MP050
6.000000	HC-49/U	20pF	50	CTX026-ND	.94	.79	.57	MCS-48, 8035, 8041, 8048, 8741, 8748; IM8048, IM8748; CDP1802, 1802C, 1804, 1804C, MC68A09	MP060
6.144000	HC-49/U	20pF	50	CTX054-ND	.94	.79	.57	MCS-85, 8086; CDP1802, 1802C, 1804, 1804C	MP061
7.372800	HC-49/U	Series	45	CTX074-ND	.94	.79	.57	—	MP073
8.000000	HC-49/U	Series	45	CTX056-ND	.94	.79	.57	8 x 300; MC6875, 68000; Z8000; AMZ8000	MP080
8.000000	HC-49/U	20pF	45	CTX082-ND	.94	.79	.57	IM6100A; CDP1807; Z8; 9940-B; MC68B09	MP080A
9.830400	HC-49/U	20pF	45	CTX084-ND	.94	.79	.57	General Purpose	MP098
10.000000	HC-49/U	Series	35	CTX057-ND	.94	.79	.57	General Purpose	MP100
10.000000	HC-49/U	30pF	35	CTX083-ND	.94	.79	.57	MCS-85, 8085A-2; 9940-10	MP101
10.738635	HC-49/U	32pF	35	CTX085-ND	.94	.79	.57	TI9918A	MP107
11.000000	HC-49/U	18pF	35	CTX086-ND	.94	.79	.57	MCS-48, 8039, 8049	MP110
11.059200	HC-49/U	Series	35	CTX078-ND	.94	.79	.57	—	MP111
12.000000	HC-49/U	Series	35	CTX058-ND	.94	.79	.57	MCS-86, 8086/8284; 8202 Ram Controller; 9940-12	MP120
12.288000	HC-49/U	32pF	35	CTX087-ND	.94	.79	.57	General Purpose	MP122
14.318180	HC-49/U	Series	35	CTX088-ND	.94	.79	.57	General Purpose	MP143
14.745600	HC-49/U	Series	35	CTX089-ND	.94	.79	.57	General Purpose	MP147
15.000000	HC-49/U	Series	35	CTX059-ND	.94	.79	.57	MCS-86, 8086/8284; 8202 Ram Controller	MP150
16.000000	HC-49/U	Series	35	CTX077-ND	.94	.79	.57	General Purpose	MP160
18.432000	HC-49/U	Series	35	CTX061-ND	.94	.79	.57	MCS-80, 8080A/8224	MP184
19.660800	HC-49/U	Series	35	CTX090-ND	.94	.79	.57	General Purpose	MP196
20.000000	HC-49/U	Series	35	CTX062-ND	.94	.79	.57	MCS-80, 8080A/8224	MP200
22.118400	HC-49/U	Series	35	CTX063-ND	1.51	1.26	.92	MCS-80, 8080A/8224	MP221
24.000000	HC-49/U	Series	35	CTX091-ND	1.51	1.26	.92	MCS-86, 8086, 8284	MP240
24.576000	HC-49/U	Series	35	CTX092-ND	1.51	1.26	.92	General Purpose	MP245
25.000000	HC-49/U	Series	35	CTX093-ND	1.51	1.26	.92	8202 Ram Controller	MP250
Base Insulators				HC49INS-ND	—	.09	.08	—	700-9001

CTS CB3 and CB3LV Series Surface Mount Clock Oscillator

FEATURES:
• Standard miniature surface mount footprint • PCMCIA Type II and III compatible • CMOS/TTL compatible • 16mm Tape and Reel • Ceramic construction for long-term reliability • Seam welded and shielded with Kovar cover

SPECIFICATIONS:
• **Frequency Stability:** ±50ppm • **Supply Voltage:** CB3: 4.5V Min., 5.5V Max.; CB3LV: 3.0V Min., 3.6V Max. • **Supply Current:** 1.5440MHz to 20.00MHz: CB3 (25mA), CB3LV (12mA); >20.00MHz: CB3 (50mA), CB3LV (40mA) • **Operating Temperature:** 0°C to +70°C • **Rise and Fall Time:** 1.5440MHz to 20.00MHz: 10ns; >20.00MHz to <50MHz: 8ns; >50.00MHz to 80.00MHz: 5ns • **Output Load:** 1.5440MHz to 50.00MHz: 50pf; 50.10MHz to 80.00MHz: 30pf • **Enable Input Voltage:** 2V Min. • **Disable Input Voltage:** 0.8V Max.



Pad	Function
1	Output Enable
2	Cover/CKT GND
3	Output
4	Vcc

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	CTS Part No.
CB3 SMD Clock Oscillator — 5V								
1.54400	CTX290CT-ND	5.08	4.69	2.69	1.87	CTX290TR-ND	1422.47	CB3-3C-1.5440-T
1.84320	CTX291CT-ND	5.08	4.69	2.69	1.87	CTX291TR-ND	1422.47	CB3-3C-1.8432-T
3.68640	CTX260CT-ND	3.75	3.46	1.99	1.38	CTX260TR-ND	1050.23	CB3-3C-3.6864-T
4.00000	CTX261CT-ND	5.08	4.69	2.69	1.87	CTX261TR-ND	1422.47	CB3-3C-4.0000-T
6.17600	CTX262CT-ND	5.08	4.69	2.69	1.87	CTX262TR-ND	1422.47	CB3-3C-6.1760-T
7.37280	CTX263CT-ND	5.08	4.69	2.69	1.87	CTX263TR-ND	1422.47	CB3-3C-7.3728-T
8.00000	CTX264CT-ND	5.08	4.69	2.69	1.87	CTX264TR-ND	1422.47	CB3-3C-8.0000-T
10.00000	CTX265CT-ND	5.08	4.69	2.69	1.87	CTX265TR-ND	1422.47	CB3-3C-10.0000-T
12.00000	CTX292CT-ND	5.08	4.69	2.69	1.87	CTX292TR-ND	1422.47	CB3-3C-12.0000-T
12.28800	CTX266CT-ND	5.08	4.69	2.69	1.87	CTX266TR-ND	1422.47	CB3-3C-12.2880-T
12.35200	CTX267CT-ND	5.08	4.69	2.69	1.87	CTX267TR-ND	1422.47	CB3-3C-12.3520-T
14.31818	CTX268CT-ND	5.08	4.69	2.69	1.87	CTX268TR-ND	1422.47	CB3-3C-14.31818-T
15.36000	CTX269CT-ND	5.08	4.69	2.69	1.87	CTX269TR-ND	1422.47	CB3-3C-15.3600-T
16.00000	CTX270CT-ND	5.08	4.69	2.69	1.87	CTX270TR-ND	1422.47	CB3-3C-16.0000-T
16.38400	CTX271CT-ND	5.08	4.69	2.69	1.87	CTX271TR-ND	1422.47	CB3-3C-16.3840-T
18.43200	CTX293CT-ND	5.08	4.69	2.69	1.87	CTX293TR-ND	1422.47	CB3-3C-18.4320-T
19.44000	CTX272CT-ND	5.08	4.69	2.69	1.87	CTX272TR-ND	1422.47	CB3-3C-19.4400-T
20.00000	CTX273CT-ND	3.75	3.46	1.99	1.38	CTX273TR-ND	1050.23	CB3-3C-20.0000-T
20.48000	CTX274CT-ND	5.08	4.69	2.69	1.87	CTX274TR-ND	1422.47	CB3-3C-20.4800-T
24.00000	CTX294CT-ND	5.08	4.69	2.69	1.87	CTX294TR-ND	1422.47	CB3-3C-24.0000-T
24.70400	CTX275CT-ND	5.08	4.69	2.69	1.87	CTX275TR-ND	1422.47	CB3-3C-24.7040-T
25.00000	CTX276CT-ND	3.75	3.46	1.99	1.38	CTX276TR-ND	1050.23	CB3-3C-25.0000-T
29.49120	CTX295CT-ND	5.08	4.69	2.69	1.87	CTX295TR-ND	1422.47	CB3-3C-29.4912-T
30.00000	CTX296CT-ND	5.08	4.69	2.69	1.87	CTX296TR-ND	1422.47	CB3-3C-30.0000-T
32.00000	CTX277CT-ND	3.75	3.46	1.99	1.38	CTX277TR-ND	1050.23	CB3-3C-32.0000-T
32.76800	CTX278CT-ND	5.08	4.69	2.69	1.87	CTX278TR-ND	1422.47	CB3-3C-32.7680-T
33.33300	CTX279CT-ND	3.75	3.46	1.99	1.38	CTX279TR-ND	1050.23	CB3-3C-33.3330-T
40.00000	CTX280CT-ND	3.75	3.46	1.99	1.38	CTX280TR-ND	1050.23	CB3-3C-40.0000-T
44.73600	CTX281CT-ND	5.37	4.95	2.84	1.98	CTX281TR-ND	1502.23	CB3-3C-44.7360-T
45.00000	CTX297CT-ND	5.37	4.95	2.84	1.98	CTX297TR-ND	1502.23	CB3-3C-45.0000-T
49.15200	CTX282CT-ND	5.37	4.95	2.84	1.98	CTX282TR-ND	1502.23	CB3-3C-49.1520-T
50.00000	CTX283CT-ND	3.75	3.46	1.99	1.38	CTX283TR-ND	1050.23	CB3-3C-50.0000-T
51.84000	CTX284CT-ND	5.70	5.25	3.02	2.10	CTX284TR-ND	1595.29	CB3-3C-51.8400-T
60.00000	CTX285CT-ND	5.70	5.25	2.95	2.05	CTX285TR-ND	1595.29	CB3-3C-60.0000-T
64.00000	CTX286CT-ND	5.70	5.25	2.95	2.05	CTX286TR-ND	1595.29	CB3-3C-64.0000-T
66.66660	CTX287CT-ND	5.70	5.25	2.95	2.05	CTX287TR-ND	1595.29	CB3-3C-66.6666-T
72.00000	CTX288CT-ND	5.70	5.25	3.06	2.13	CTX288TR-ND	1595.29	CB3-3C-72.0000-T
80.00000	CTX289CT-ND	5.70	5.25	3.06	2.13	CTX289TR-ND	1595.29	CB3-3C-80.0000-T

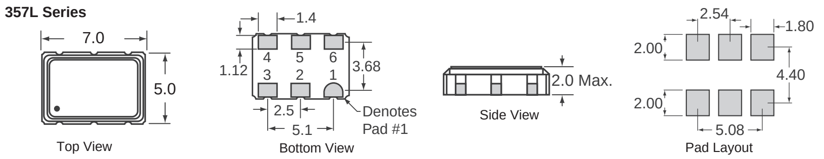
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	CTS Part No.
CB3LV SMD Clock Oscillator — 3.3V								
1.54400	CTX290LVCT-ND	5.08	4.69	2.69	1.87	CTX290LVTR-ND	1422.47	CB3LV-3C-1.5440-T
1.84320	CTX291LVCT-ND	5.08	4.69	2.69	1.87	CTX291LVTR-ND	1422.47	CB3LV-3C-1.8432-T
3.68640	CTX260LVCT-ND	3.75	3.46	1.99	1.38	CTX260LVTR-ND	1050.23	CB3LV-3C-3.6864-T
4.00000	CTX261LVCT-ND	5.08	4.69	2.69	1.87	CTX261LVTR-ND	1422.47	CB3LV-3C-4.0000-T
6.17600	CTX262LVCT-ND	5.08	4.69	2.69	1.87	CTX262LVTR-ND	1422.47	CB3LV-3C-6.1760-T
7.37280	CTX263LVCT-ND	5.08	4.69	2.69	1.87	CTX263LVTR-ND	1422.47	CB3LV-3C-7.3728-T
8.00000	CTX264LVCT-ND	5.08	4.69	2.69	1.87	CTX264LVTR-ND	1422.47	CB3LV-3C-8.0000-T
10.00000	CTX265LVCT-ND	5.08	4.69	2.69	1.87	CTX265LVTR-ND	1422.47	CB3LV-3C-10.0000-T
12.00000	CTX292LVCT-ND	5.08	4.69	2.69	1.87	CTX292LVTR-ND	1422.47	CB3LV-3C-12.0000-T
12.28800	CTX266LVCT-ND	5.08	4.69	2.69	1.87	CTX266LVTR-ND	1422.47	CB3LV-3C-12.2880-T
12.35200	CTX267LVCT-ND	5.08	4.69	2.69	1.87	CTX267LVTR-ND	1422.47	CB3LV-3C-12.3520-T
14.31818	CTX268LVCT-ND	5.08	4.69	2.69	1.87	CTX268LVTR-ND	1422.47	CB3LV-3C-14.31818-T
15.36000	CTX269LVCT-ND	5.08	4.69	2.69	1.87	CTX269LVTR-ND	1422.47	CB3LV-3C-15.3600-T
16.00000	CTX270LVCT-ND	5.08	4.69	2.69	1.87	CTX270LVTR-ND	1422.47	CB3LV-3C-16.0000-T
16.38400	CTX271LVCT-ND	5.08	4.69	2.69	1.87	CTX271LVTR-ND	1422.47	CB3LV-3C-16.3840-T
18.43200	CTX293LVCT-ND	5.08	4.69	2.69	1.87	CTX293LVTR-ND	1422.47	CB3LV-3C-18.4320-T
19.44000	CTX272LVCT-ND	5.08	4.69	2.69	1.87	CTX272LVTR-ND	1422.47	CB3LV-3C-19.4400-T
20.00000	CTX273LVCT-ND	3.75	3.46	1.99	1.38	CTX273LVTR-ND	1050.23	CB3LV-3C-20.0000-T
20.48000	CTX274LVCT-ND	5.08	4.69	2.69	1.87	CTX274LVTR-ND	1422.47	CB3LV-3C-20.4800-T
24.00000	CTX294LVCT-ND	5.08	4.69	2.69	1.87	CTX294LVTR-ND	1422.47	CB3LV-3C-24.0000-T
24.70400	CTX275LVCT-ND	5.08	4.69	2.69	1.87	CTX275LVTR-ND	1422.47	CB3LV-3C-24.7040-T
25.00000	CTX276LVCT-ND	3.75	3.46	1.99	1.38	CTX276LVTR-ND	1050.23	CB3LV-3C-25.0000-T
29.49120	CTX295LVCT-ND	5.08	4.69	2.69	1.87	CTX295LVTR-ND	1422.47	CB3LV-3C-29.4912-T
30.00000	CTX296LVCT-ND	5.08	4.69	2.69	1.87	CTX296LVTR-ND	1422.47	CB3LV-3C-30.0000-T
32.00000	CTX277LVCT-ND	3.75	3.46	1.99	1.38	CTX277LVTR-ND	1050.23	CB3LV-3C-32.0000-T
32.76800	CTX278LVCT-ND	5.08	4.69	2.69	1.87	CTX278LVTR-ND	1422.47	CB3LV-3C-32.7680-T
33.33300	CTX279LVCT-ND	3.75	3.46	1.99	1.38	CTX279LVTR-ND	1050.23	CB3LV-3C-33.3330-T
40.00000	CTX280LVCT-ND	3.75	3.46	1.99	1.38	CTX280LVTR-ND	1050.23	CB3LV-3C-40.0000-T
44.73600	CTX281LVCT-ND	5.37	4.95	2.84	1.98	CTX281LVTR-ND	1502.23	CB3LV-3C-44.7360-T
45.00000	CTX297LVCT-ND	5.37	4.95	2.84	1.98	CTX297LVTR-ND	1502.23	CB3LV-3C-45.0000-T
49.15200	CTX282LVCT-ND	5.37	4.95	2.84	1.98	CTX282LVTR-ND	1502.23	CB3LV-3C-49.1520-T
50.00000	CTX283LVCT-ND	3.75	3.46	1.99	1.38	CTX283LVTR-ND	1050.23	CB3LV-3C-50.0000-T
51.84000	CTX284LVCT-ND	5.70	5.25	3.02	2.10	CTX284LVTR-ND	1595.29	CB3LV-3C-51.8400-T
60.00000	CTX285LVCT-ND	5.70	5.25	3.02	2.10	CTX285LVTR-ND	1595.29	CB3LV-3C-60.0000-T
64.00000	CTX286LVCT-ND	5.70	5.25	3.02	2.10	CTX286LVTR-ND	1595.29	CB3LV-3C-64.0000-T
66.66660	CTX287LVCT-ND	5.70	5.25	3.02	2.10	CTX287LVTR-ND	1595.29	CB3LV-3C-66.6666-T
72.00000	CTX288LVCT-ND	5.70	5.25	3.02	2.10	CTX288LVTR-ND	1595.29	CB3LV-3C-72.0000-T
80.00000	CTX289LVCT-ND	5.70	5.25	3.02	2.10	CTX289LVTR-ND	1595.29	CB3LV-3C-80.0000-T

NEW! 357L Series Surface Mount VCXO

SPECIFICATIONS:
- **Frequency Stability:** ±25ppm
- **Supply Voltage:** 2.97V Min., 3.3V Typical, 3.63V Max.
- **Supply Current:** 50mA
- **Operating Temperature:** -40°C to +85°C
- **Output Voltage Level:** Logic “1” Level: V_{OH} 0.9 Min. 0.1 Max., Logic “0” Level: V_{OL}
- **Output Transition Rise and Fall Time:** T_R 5.0nS; T_F 5.0 nS
- **Start up Time:** 10.0 mS
- **Output Duty Cycle (@ 50% Level):** SYM 45% Min., 55% Max.
- **Phase Jitter (Bandwidth 12K - 20MHz):** <1pS RMS
- **Control Voltage:** 0.3V Min., 1.65V Typical, 3.0V Max.
- **Absolute Pulling Range:** 50±PPM
- **Linearity:** 10%
- **Input Impedance:** 50K Ohms
- **Modulation Roll-off (@ -3dB):** 10KHz

357L Series
Enable Truth Table

Pin 2	Pin 4
“1”	Output
“0”	High Imp.
Open	Output



357L Series

Pin	Functional Description
1	Control Voltage
2	Tri-State Enable
3	Circuit and Package Ground
4	RF Output
5	Not Connected Internally
6	Supply Voltage

Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	CTS Part No.
4.096	CTX626CT-ND	10.20	8.16	6.80	CTX626TR-ND	3944.00	357LBI-4M0960
19.440	CTX627CT-ND	10.20	8.16	6.80	CTX627TR-ND	3944.00	357LBI-19M4400
35.3280	CTX628CT-ND	10.20	8.16	6.80	CTX628TR-ND	3944.00	357LBI-35M3280
44.7360	CTX629CT-ND	10.58	8.46	7.05	CTX629TR-ND	4089.00	357LBI-44M7360

350A Series PECL VCXO

FEATURES:
• Differential PECL outputs • +3.3Vdc Operation • Sealed AT strip crystal • Output enable function • Excellent solder reflow performance

SPECIFICATIONS:
- **Frequency Stability:** ±15ppm (0° to 70°C)
- **Supply Current:** 55mA@ Vcc=3.3Vdc
- **Power Supply:** 3.30Vdc ±5%
- **Absolute Pull Range (350A Series Only):** ±85ppm min.
- **Control Voltage (350A Series Only):** 0.15-3.15V

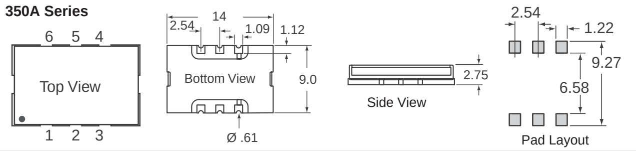
WAVEFORM PARAMETERS:
- **Symmetry:** @50% level, 45% Min., 50% Typical, 55% Max.
- **Amplitude:** 50Ω load, Vcc-1.62V Min., Vcc-1.025V Max.
- **Rise/Fall Times:** 350pSec. Typical, 500pSec. Max. @ 20% to 80%
- **Load:** 50Ω Typical @ Output to Vcc-2.0V or Equivalent
- **Phase Jitter:** <3.3pSec. RMS 12KHz-20MHz

350A Series
Enable Truth Table

Pin 2	Pins 4 and 5
GND	Disabled
Vcc	Enabled
Open	Enabled

350A Series

Pad	Function
1	Vc, Tuning Voltage
2	Enable/Disable
3	GND
4	Output
5	Complementary Output
6	Vcc, Supply Voltage



Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 100	CTS Part No.
622.08	CTX623CT-ND	105.00	89.25	75.25	CTX623TR-ND	6800.00	350ALAA-622.080
644.531	CTX624CT-ND	105.00	89.25	75.25	CTX624TR-ND	6800.00	350ALAA-644.531
666.514	CTX625CT-ND	105.00	89.25	75.25	CTX625TR-ND	6800.00	350ALAA-666.514

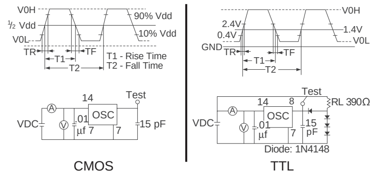
CTS® MXO45 Clock Oscillators

Tri-State Output

Tri-State Logic uses the two standard logic levels of high (logic 1) and low (logic 0) but has added a third state that is not a logic level but an open circuit condition that effectively disconnects the output from your circuit with a high impedance (floating) state. Thereby enabling the use of numerous oscillators on the same bus line. Also, by using the enable pin to control the output, the crystal is still running even when the output is disabled (stand-by mode), thus eliminating any start-up time for the oscillator.

CTS HCMOS/TTL products utilize an Application Specific Integrated Circuit (ASIC) design strategy. Employing a single design family supporting both HCMOS/TTL applications helps in reducing costs and lead times. Utilizing ASIC technology reduces the number of components inside the XO (crystal oscillator), thus increasing reliability and further reducing cost. **Features** • C-MOS/TTL compatible • Drives up to 10 standard TTL loads • 100 PPM tolerance • Tri-State output • Fully hermetic resistance weld package

Wave Form Conditions

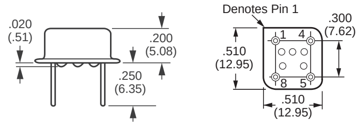


Parameter	Symbol	Condition	Minimum	Typical	Maximum	Units
Supply Voltage	VCC	—	4.5	5.0	5.5	V
Supply Current	ICC — —	1.0->7.0MHz >7.0->25MHz >25->50MHz	— — —	5 15 30	12 25 40	mA mA mA
Output Load	—	—	—	—	10	TTL
Output Current	IOH IOH	VOH = 3.9V VOH = 0.4V	— —	— —	-16 16	mA mA
Symmetry	Duty	1.0->50MHz >50->70MHz	45 40	— —	55 60	% %
Rise & Fall Time	Tr/Tf Tr/Tf	1.0->25MHz >25->70MHz	— —	5 3	8 5	ns ns
Enable Input V	VIH VIL	— —	2.0 —	— —	— 0.8	V V
Enable Input Load	Cin	—	—	—	10	pF
Tri-state Leakage	Iz	VIL = 0.8V	—	—	0.05	mA
Jitter	—	Peak-Peak	—	30	50	ps
Temperature	0-70°C					

Standard Output

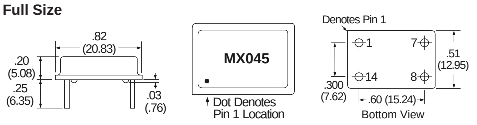
• Frequency Tolerance: ±100 PPM 0°C to 70°C • C-MOS compatible • Fully hermetic resistance weld package • 8/14-pin compatible • Drives up to 10 standard TTL Loads • Input Voltage: +5 V DC ± .5V

Half Size



Pin #1 O/E (Tri-State)
NC (Standard)
Pin #4 Ground
Pin #5 Output
Pin #8 +5 V DC

Full Size



Pin #1 O/E (Tri-State)
NC (Standard)
Pin #7 Ground
Pin #8 Output
Pin #14 +5 V DC

Frequency (MHz)	Digi-Key Part No.	Price Each					CTS Part No.
		1	10	100	250	500	
Half Size Clock Oscillator with Tri-State Output							
1.00000	CTX180-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-1.000
1.84320	CTX181-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-1.8432
2.00000	CTX182-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-2.000
2.45760	CTX183-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-2.4576
3.68640	CTX184-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3.6864
4.00000	CTX185-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-4.000
4.91520	CTX186-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-4.9152
5.00000	CTX187-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-5.000
5.06880	CTX188-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-5.0688
6.00000	CTX189-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-6.000
6.14400	CTX190-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-6.144
7.37280	CTX191-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-7.3728
8.00000	CTX192-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-8.000
10.00000	CTX193-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-10.000
12.00000	CTX194-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-12.000
14.31818	CTX195-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-14.31818
16.00000	CTX196-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-16.000
18.43200	CTX197-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-18.432
19.66080	CTX198-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-19.6608
20.00000	CTX199-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-20.000
24.00000	CTX250-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-24.000
25.00000	CTX251-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-25.000
25.17500	CTX252-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-25.175
28.32200	CTX253-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-28.322
32.00000	CTX254-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-32.000
40.00000	CTX255-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-40.000
50.00000	CTX256-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-50.000
64.00000	CTX257-ND	3.64	3.22	2.45	2.17	1.86	MXO45HST-64.000
66.66660	CTX258-ND	3.64	3.22	2.45	2.17	1.86	MXO45HST-66.6666
80.00000	CTX259-ND	5.85	5.18	3.94	3.49	2.99	MXO45HST-80.000
Half Size Clock Oscillator with Standard Output							
1.00000	CTX150-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-1.0000
1.84320	CTX151-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-1.8432
2.00000	CTX152-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-2.0000
2.45760	CTX153-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-2.4576
3.68640	CTX154-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3.6864
4.00000	CTX155-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-4.0000
4.91520	CTX156-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-4.9152
5.00000	CTX157-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-5.0000
5.06880	CTX158-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-5.0688
6.00000	CTX159-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-6.0000
6.14400	CTX160-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-6.1440
7.37280	CTX161-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-7.3728
8.00000	CTX162-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-8.0000
10.00000	CTX163-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-10.0000
12.00000	CTX164-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-12.0000
14.31818	CTX165-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-14.31818
16.00000	CTX166-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-16.0000
18.43200	CTX167-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-18.4320
19.66080	CTX168-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-19.6608
20.00000	CTX169-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-20.0000
24.00000	CTX170-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-24.0000
25.00000	CTX171-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-25.0000
25.17500	CTX172-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-25.1750
28.32200	CTX173-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-28.3220
32.00000	CTX174-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-32.0000
40.00000	CTX175-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-40.0000
50.00000	CTX176-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-50.0000
64.00000	CTX177-ND	3.64	3.22	2.45	2.17	1.86	MXO45HS-64.0000
66.66660	CTX178-ND	3.64	3.22	2.45	2.17	1.86	MXO45HS-66.6666
80.00000	CTX179-ND	5.85	5.18	3.94	3.49	2.99	MXO45HS-80.0000

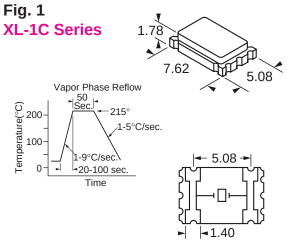
Frequency (MHz)	Digi-Key Part No.	Price Each					CTS Part No.
		1	10	100	250	500	
Full Size Clock Oscillator with Tri-State Output							
1.00000	CTX139-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-1.000
1.84320	CTX140-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-1.8432
2.00000	CTX141-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-2.000
2.45760	CTX142-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-2.4576
3.68640	CTX143-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-3.6864
4.00000	CTX144-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-4.000
4.91520	CTX145-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-4.9152
5.00000	CTX146-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-5.000
5.06880	CTX147-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-5.0688
6.00000	CTX148-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-6.000
6.14400	CTX200-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-6.144
7.37280	CTX201-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-7.3728
8.00000	CTX202-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-8.000
10.00000	CTX203-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-10.000
12.00000	CTX204-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-12.000
14.31818	CTX205-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-14.31818
16.00000	CTX206-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-16.000
18.43200	CTX207-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-18.432
19.66080	CTX208-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-19.6608
20.00000	CTX209-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-20.000
24.00000	CTX210-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-24.000
25.00000	CTX211-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-25.000
25.17500	CTX212-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-25.175
28.32200	CTX213-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-28.322
32.00000	CTX214-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-32.000
40.00000	CTX215-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-40.000
50.00000	CTX216-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-50.000
64.00000	CTX217-ND	3.64	3.22	2.87	2.45	2.17	MXO45T-64.000
66.66660	CTX218-ND	3.64	3.22	2.87	2.45	2.17	MXO45T-66.6666
80.00000	CTX219-ND	5.85	5.18	4.61	3.94	3.49	MXO45T-80.000
Full Size Clock Oscillator with Standard Output							
1.00000	CTX101-ND	2.78	2.47	2.19	1.87	1.66	MXO45-1.0000
1.84320	CTX103-ND	2.78	2.47	2.19	1.87	1.66	MXO45-1.8432
2.00000	CTX104-ND	2.78	2.47	2.19	1.87	1.66	MXO45-2.0000
2.45760	CTX105-ND	2.78	2.47	2.19	1.87	1.66	MXO45-2.4576
3.68640	CTX106-ND	2.78	2.47	2.19	1.87	1.66	MXO45-3.6864
4.00000	CTX107-ND	2.78	2.47	2.19	1.87	1.66	MXO45-4.0000
4.91520	CTX108-ND	2.78	2.47	2.19	1.87	1.66	MXO45-4.9152
5.00000	CTX109-ND	2.78	2.47	2.19	1.87	1.66	MXO45-5.0000
5.06880	CTX110-ND	2.78	2.47	2.19	1.87	1.66	MXO45-5.0688
6.00000	CTX111-ND	2.78	2.47	2.19	1.87	1.66	MXO45-6.0000
6.14400	CTX122-ND	2.78	2.47	2.19	1.87	1.66	MXO45-6.1440
7.37280	CTX123-ND	2.78	2.47	2.19	1.87	1.66	MXO45-7.3728
8.00000	CTX112-ND	2.78	2.47	2.19	1.87	1.66	MXO45-8.0000
10.00000	CTX114-ND	2.78	2.47	2.19	1.87	1.66	MXO45-10.0000
12.00000	CTX131-ND	2.78	2.47	2.19	1.87	1.66	MXO45-12.0000
14.31818	CTX115-ND	2.78	2.47	2.19	1.87	1.66	MXO45-14.31818
16.00000	CTX116-ND	2.78	2.47	2.19	1.87	1.66	MXO45-16.0000
18.43200	CTX118-ND	2.78	2.47	2.19	1.87	1.66	MXO45-18.4320
19.66080	CTX124-ND	2.78	2.47	2.19	1.87	1.66	MXO45-19.6608
20.00000	CTX119-ND	2.78	2.47	2.19	1.87	1.66	MXO45-20.0000
24.00000	CTX125-ND	2.78	2.47	2.19	1.87	1.66	MXO45-24.0000
25.00000	CTX126-ND	2.78	2.47	2.19	1.87	1.66	MXO45-25.0000
25.17500	CTX127-ND	2.78	2.47	2.19	1.87	1.66	MXO45-25.1750
28.32200	CTX128-ND	2.78	2.47	2.19	1.87	1.66	MXO45-28.3220
32.00000	CTX129-ND	2.78	2.47	2.19	1.87	1.66	MXO45-32.0000
40.00000	CTX120-ND	2.78	2.47	2.19	1.87	1.66	MXO45-40.0000
50.00000	CTX121-ND	2.78	2.47	2.19	1.87	1.66	MXO45-50.0000
64.00000	CTX130-ND	3.64	3.22	2.87	2.45	2.18	MXO45-64.0000
66.66660	CTX137-ND	3.64	3.22	2.87	2.45	2.18	MXO45-66.6666
80.00000	CTX138-ND	5.85	5.18	4.61	3.94	3.49	MXO45-80.0000

A462-ND	Aries Full-Size Socket for a 4-Pin Oscillator	$.60/1;	$12.50/25;	$40.48/100
A463-ND	Aries Half-Size Socket for a 4-Pin Oscillator	$.60/1;	$12.50/25;	$40.48/100

CONNOR WINFIELD

Surface Mount Crystals and Oscillators

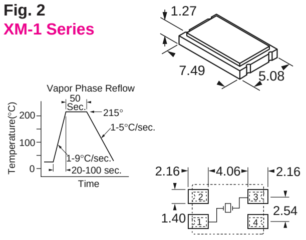
Fig. 1
XL-1C Series



Specifications:

- **Frequency Tolerance:** ±50ppm (@ 25°C)
- **Temperature Stability:** ±50 ppm
- **Operating Temp,:** -10°C to +65°C
- **Drive Level:** .1mW Typical

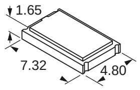
Fig. 2
XM-1 Series

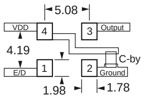


Specifications:

- **Frequency Tolerance:** ±50ppm (@ 25°C)
- **Temperature Stability:** ±50 ppm
- **Operating Temperature:** -10°C to +65°C
- **Drive Level:** .1mW Typical

Fig. 3
HSM92 - HSM93 Series





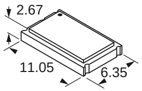
Suggested Pad Layout

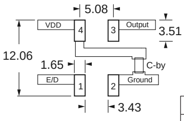
Pin #	Connection
1	Enable
2	GND
3	Output
4	VDD

Specifications:

- **Frequency Stability:** HSM92: ±50ppm; HSM93: ±100ppm.
- **Temperature Range:** 0°C to +70°C.
- **Waveform:** HCMOS Squarewave, Tri-State
- **Output:** Voh: 4.5V Min., Vol: 0.5V Max.
- **Current:** Ioh: 16mA; Iol: 16mA.
- **Rise/Fall Time**: 7ns Max.
- **Duty Cycle**: 45/55 max.
- **Start Up Time**: 10mS Max.
- **Supply Voltage**: +5VDC ±10%.
- **Enable/Disable Time:** 100ns Max.
- **Output Load:** 50pF

Fig. 4
HSM 536 Series





Suggested Pad Layout

Pin #	Connection
1	Enable
2	GND
3	Output
4	VDD

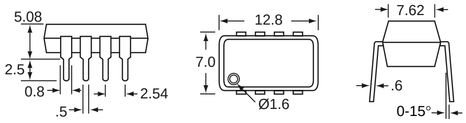
Specifications:

- **Frequency Stability:** ±100ppm.
- **Temperature Range:** 0°C to +70°C.
- **Waveform:** HCMOS Squarewave.
- **Output:** Voh: 4.5V Min., Vol: 0.5V Max.
- **Rise/Fall Time**: 7ns Max.
- **Duty Cycle**: 50/50% ±10%.
- **Start Up Time**: 10mS Max.
- **Supply Voltage**: +5VDC ±10%.
- **Output Load:** 50pF

Fig.	Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	100	500	Connor-Winfield Part No.
			SMT Quartz Crystals					
1	10.000	16pf	CW401-ND	4.73	3.94	3.15	2.54	XL-1C-10.0000
	12.000	16pf	CW402-ND	4.73	3.94	3.15	2.54	XL-1C-12.0000
	16.000	16pf	CW403-ND	4.73	3.94	3.15	2.54	XL-1C-16.0000
	18.432	16pf	CW404-ND	4.73	3.94	3.15	2.54	XL-1C-18.4320
	20.000	16pf	CW405-ND	4.73	3.94	3.15	2.54	XL-1C-20.0000
	29.4912	16pf	CW407-ND	5.54	4.62	3.69	2.98	XL-1C-29.4912
	40.000	Series	CW408-ND	5.13	4.28	3.42	2.76	XL-1C-40.0000
	44.2368	Series	CW409-ND	5.13	4.28	3.42	2.76	XL-1C-44.2368
	50.000	Series	CW410-ND	5.13	4.28	3.42	2.76	XL-1C-50.0000
2	10.000	16pf	CW421-ND	7.83	6.53	5.22	4.21	XM-1-10.0000
	12.000	16pf	CW422-ND	7.83	6.53	5.22	4.21	XM-1-12.0000
	16.000	16pf	CW423-ND	7.83	6.53	5.22	4.21	XM-1-16.0000
	18.432	16pf	CW424-ND	7.83	6.53	5.22	4.21	XM-1-18.4320
	20.000	16pf	CW425-ND	7.83	6.53	5.22	4.21	XM-1-20.0000
	29.4912	Series	CW427-ND	9.32	7.77	6.21	5.01	XM-1-29.4912
	40.000	Series	CW428-ND	8.51	7.09	5.67	4.57	XM-1-40.0000
	44.2368	Series	CW429-ND	8.51	7.09	5.67	4.57	XM-1-44.2368
	50.000	Series	CW430-ND	8.51	7.09	5.67	4.57	XM-1-50.0000
			SMT Oscillator					
3	4.9152	—	CW301-ND	11.61	9.68	7.74	6.24	HSM93-4.9152
	8.000	—	CW302-ND	11.61	9.68	7.74	6.24	HSM93-8.0000
	10.000	—	CW303-ND	11.61	9.68	7.74	6.24	HSM93-10.0000
	16.000	—	CW304-ND	11.61	9.68	7.74	6.24	HSM93-16.0000
	20.000	—	CW305-ND	11.61	9.68	7.74	6.24	HSM93-20.0000
	25.000	—	CW306-ND	11.61	9.68	7.74	6.24	HSM93-25.0000
	29.4912	—	CW341-ND	12.15	10.13	8.10	6.53	HSM92-29.4912
	32.000	—	CW307-ND	11.61	9.68	7.74	6.24	HSM93-32.0000
	40.000	—	CW308-ND	11.61	9.68	7.74	6.24	HSM93-40.0000
	44.2368	—	CW342-ND	12.15	10.13	8.10	6.53	HSM92-44.2368
	50.000	—	CW309-ND	11.61	9.68	7.74	6.24	HSM93-50.0000
	60.000	—	CW310-ND	13.23	11.03	8.82	7.11	HSM93-60.0000
4	8.000	—	CW320-ND	10.80	9.00	7.20	5.80	HSM536-8.0000
	10.000	—	CW321-ND	10.80	9.00	7.20	5.80	HSM536-10.0000
	18.432	—	CW322-ND	10.80	9.00	7.20	5.80	HSM536-18.4320
	20.000	—	CW323-ND	10.80	9.00	7.20	5.80	HSM536-20.0000
	25.000	—	CW324-ND	10.80	9.00	7.20	5.80	HSM536-25.0000
	32.000	—	CW325-ND	10.80	9.00	7.20	5.80	HSM536-32.0000
	40.000	—	CW326-ND	10.80	9.00	7.20	5.80	HSM536-40.0000
	50.000	—	CW327-ND	10.80	9.00	7.20	5.80	HSM536-50.0000
	60.000	—	CW328-ND	11.07	9.23	7.38	5.95	HSM536-60.0000
	64.000	—	CW329-ND	11.07	9.23	7.38	5.95	HSM536-64.0000
	66.6666	—	CW330-ND	11.07	9.23	7.38	5.95	HSM536-66.6666

ECS INC. INTERNATIONAL

Dual Output Oscillator - ECS-300C Series

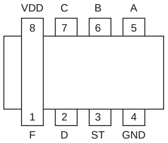


Electrical Characteristics:

- **Frequency Stability:** 0.01%
- **Operating Temperature Range:** Ta = -10°C to +70°C
- **Storage Temperature Range:** Ta = -55°C to +125°C
- **Supply Voltage:** 5V ±0.5V; 3-5V ±5V
- **Current Consumption:** 20mA max.
- **Input Current:** 35mA max.
- **Output Load:** 15pF
- **Output Level:** Voh: 4.5V min. Vol: 0.5V max.
- **Output Symmetry:** 40% to 60%
- **Rise Time/Fall Time:** 15nS
- **Start-up Time:** .2mS

SETTING OF DIVIDING OUTPUT

Input				Output	
Select				F (Original Frequency)	D (Divided Waveform)
C	B	A	ST		
X	**X**	**X**	**L**	**L**	**L**
L	L	L	H	fo clock	fo 1/2 clock
L	L	H	H	fo clock	fo 1/2^2 clock
L	H	L	H	fo clock	fo 1/2^3 clock
L	H	H	H	fo clock	fo 1/2^4 clock
H	L	L	H	fo clock	fo 1/2^5 clock
H	L	H	H	fo clock	fo 1/2^6 clock
H	H	L	H	fo clock	fo 1/2^7 clock
H	H	H	H	fo clock	fo 1/2^6 clock



Pin	Connection
1	Output
2	Dividing Ratio
3	Standby
4	GND
5	A (Programming)
6	B (Programming)
7	C (Programming)
8	VDD (5V)

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
12.000	XC301-ND	5.35	4.46	3.57	2.88	ECS-300C-120
12.288	XC302-ND	5.35	4.46	3.57	2.88	ECS-300C-122.8
12.800	XC303-ND	5.35	4.46	3.57	2.88	ECS-300C-128
14.31818	XC304-ND	5.35	4.46	3.57	2.88	ECS-300C-143
14.7456	XC305-ND	5.35	4.46	3.57	2.88	ECS-300C-147.4
15.9744	XC306-ND	5.35	4.46	3.57	2.88	ECS-300C-159.7
16.000	XC307-ND	5.35	4.46	3.57	2.88	ECS-300C-160
16.3840	XC308-ND	5.35	4.46	3.57	2.88	ECS-300C-163.8
17.734476	XC309-ND	5.35	4.46	3.57	2.88	ECS-300C-177.3
18.432	XC310-ND	5.35	4.46	3.57	2.88	ECS-300C-184
19.6608	XC311-ND	5.35	4.46	3.57	2.88	ECS-300C-196.6
20.000	XC312-ND	5.35	4.46	3.57	2.88	ECS-300C-200
24.000	XC313-ND	5.35	4.46	3.57	2.88	ECS-300C-240

ECS INC. INTERNATIONAL

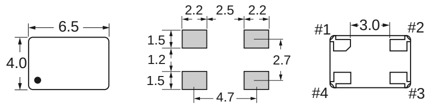
SMD Clock Oscillator - 32.768 KHz

ECS-327SMO Series

Electrical Characteristics:

- **Frequency Stability:**
  - -10°C ~ +60°C: -60ppm min., +30ppm max.;
  - -40°C ~ +85°C: -140ppm min., +30ppm max.
- **Operating Temperature Range:** -40°C ~ +85°C
- **Storage Temperature Range:** -40°C ~ +85°C
- **Input Voltage (Vcc):** +3.3V DC typ.
- **Input Current:** 15µA max. (with 15pF load)
- **Symmetry:** 40% to 60% (at 1/2 Vcc Level and +25°C)
- **Rise and Fall Time:** 200ns
- **"0" Level:** Vcc x 0.1V max.
- **"1" Level:** Vcc x 0.9V min.
- **Load:** 15pF CMOS

Frequency (KHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
32.768	XC777CT-ND	6.74	5.52	4.90	XC777TR-ND	3430.00	ECS-327SMO



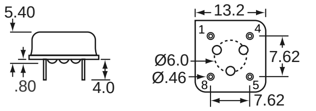
Pin	Connection
1	NC
2	GND
3	Output
4	Vcc

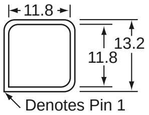
Package Thickness: 2.0mm

Half Size Clock Oscillators

Electrical Characteristics:

- **Frequency Stability:** ±50ppm max.
- **Supply Voltage:** 4.5V min., 5.5V max.
- **Input Current:**
  - 4.000 ~ 25.000MHz: 25mA
  - 25.000+ ~ 50.000MHz: 46mA
  - 50.000+ ~ 80.000MHz: 77mA
- **Output Symmetry @2.5V:**
  - 4.000 ~ 80.000MHz: 45% min., 55% max.
- **Operating Temp.:** -10°C to +70°C
- **Storage Temp.:** -55°C to +125°C
- **Rise Time (0.5V to 4.5V):** 5nS
- **Fall Time (4.5V to 0.5V):** 5nS
- **Output Voltage (4.000 ~ 80.000MHz):**
  - IOL = 16mA: 0.5V max.
  - IOH = -16mA: 4.5V min.
- **Output Current (4.000 ~ 80.000MHz):**
  - VOL = 0.5V: 16mA max.
  - VOH = 4.5V: -16mA max.
- **Output Load:**
  - TTL: 10 TTL max.
  - HCMOS: 50pf
- **Start up Time:** 4.000-80.000MHz: 10mS
- **Output Enable/Disable Time:** 100nS





Pin	Connection
1	Enable/Disable
4	GND (Case)
5	Output
8	+5 VDC

Enable / Disable Function	
INH (Pin 1)	OUTPUT (Pin 5)
OPEN†	ACTIVE
‘1’ Level $V_{IH} \geq 2.2V$	ACTIVE
‘0’ Level $V_{IL} \leq 0.8V$	High Z

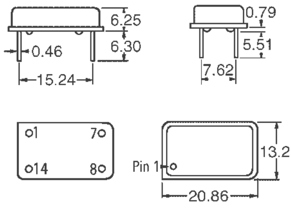
a† An internal pullup resistor from Pin 1 to Pin 8 allows active output if Pin 1 is left open

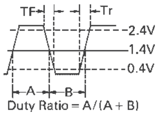
Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
4.000	XC259-ND	2.63	2.37	1.89	1.68	ECS-2200B-040
4.9152	XC260-ND	2.63	2.37	1.89	1.68	ECS-2200B-049
6.000	XC261-ND	2.63	2.37	1.89	1.68	ECS-2200B-060
6.144	XC262-ND	2.63	2.37	1.89	1.68	ECS-2200B-061
7.3728	XC263-ND	2.63	2.37	1.89	1.68	ECS-2200B-073
8.000	XC264-ND	2.63	2.37	1.89	1.68	ECS-2200B-080
9.216	XC265-ND	2.63	2.37	1.89	1.68	ECS-2200B-092.1
9.8304	XC266-ND	2.63	2.37	1.89	1.68	ECS-2200B-098
10.000	XC267-ND	2.63	2.37	1.89	1.68	ECS-2200B-100
11.0592	XC268-ND	2.63	2.37	1.89	1.68	ECS-2200B-110
12.000	XC269-ND	2.63	2.37	1.89	1.68	ECS-2200B-120
14.31818	XC270-ND	2.63	2.37	1.89	1.68	ECS-2200B-143
16.000	XC271-ND	2.63	2.37	1.89	1.68	ECS-2200B-160
18.432	XC272-ND	2.63	2.37	1.89	1.68	ECS-2200B-184
19.6608	XC273-ND	2.63	2.37	1.89	1.68	ECS-2200B-196
20.000	XC274-ND	2.63	2.37	1.89	1.68	ECS-2200B-200
24.000	XC275-ND	2.63	2.37	1.89	1.68	ECS-2200B-240
25.000	XC276-ND	2.63	2.37	1.89	1.68	ECS-2200B-250
28.322	XC277-ND	2.63	2.37	1.89	1.68	ECS-2200B-283
32.000	XC278-ND	2.63	2.37	1.89	1.68	ECS-2200B-320
40.000	XC279-ND	2.63	2.37	1.89	1.68	ECS-2200B-400
48.000	XC280-ND	2.63	2.37	1.89	1.68	ECS-2200B-480
50.000	XC281-ND	2.63	2.37	1.89	1.68	ECS-2200B-500
66.666	XC282-ND	2.63	2.37	1.89	1.68	ECS-2200B-666
80.000	XC283-ND	2.63	2.37	1.89	1.68	ECS-2200B-800

Full Size TTL Clock Oscillators

Electrical Characteristics:

- **Frequency Stability:** ±100ppm max.
- **Supply Voltage:** 4.5V min., 5.5V max.
- **Input Current:**
  - 1.000 ~ 8.000MHz: 15mA
  - 8.000+ ~ 24.000MHz: 30mA
  - 24.000+ ~ 66.666MHz: 70 mA
- **Output Symmetry @ 1.4V:**
  - 1.000 ~ 8.000MHz: 45% min., 55% max.
  - 8.000+ ~66.666MHz: 40% min., 60% max.
- **Operating Temp.:** 0°C to +70°C
- **Storage Temp.:** -55°C to +125C
- **Rise Time:**
  - 1.000 ~ 25.000MHz @ 0.4V to 2.4V: 10nS
  - 25.000+ ~ 66.666MHz @ 0.5V to 2.4V: 5nS
- **Fall Time:**
  - 1.000 ~ 25.000MHz @ 0.4V to 2.4V: 10nS
  - 25.000+ ~ 66.666MHz @ 0.5 to 2.4V: 5nS
- **Output Voltage (IOL = 20mA):**
  - 1.000 ~ 25.000MHz: 0.4V max.
  - 25.000+ ~ 66.666MHz: 0.5V max.
- **Output Voltage (IOH = 1mA):** 2.4V min.
- **Output Current:**
  - VOL = 0.5V: 16mA max.
  - VOH = 2.4V: -4mA max.
- **Output Load:** TTL: 10 TTL max.
- **Start up Time:**
  - 1.000~3.500MHz: 20mS
  - 3.500+~4.000MHz: 35mS
  - 4.000+~6.000MHz: 30mS
  - 6.000+~20.000MHz: 20mS
  - 20.000+~66.666MHz: 15mS





Pin	Connection
1	NC
7	Gnd/Case Gnd
8	Output
14	+5V dc

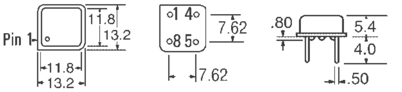
Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1.000	X101-ND	1.88	1.69	1.35	1.20	ECS-100A-010
1.2288	X102-ND	1.88	1.69	1.35	1.20	ECS-100A-012.2
1.8432	X103-ND	1.88	1.69	1.35	1.20	ECS-100A-018
2.000	X104-ND	1.88	1.69	1.35	1.20	ECS-100A-020
2.4576	X105-ND	1.88	1.69	1.35	1.20	ECS-100A-024
3.579545	XC227-ND	1.88	1.69	1.35	1.20	ECS-100A-035
3.6864	X106-ND	1.88	1.69	1.35	1.20	ECS-100A-036
4.000	X107-ND	1.88	1.69	1.35	1.20	ECS-100A-040
4.9152	X108-ND	1.88	1.69	1.35	1.20	ECS-100A-049
5.000	X109-ND	1.88	1.69	1.35	1.20	ECS-100A-050
5.0688	X110-ND	1.88	1.69	1.35	1.20	ECS-100A-051
6.000	X111-ND	1.88	1.69	1.35	1.20	ECS-100A-060
6.144	X122-ND	1.88	1.69	1.35	1.20	ECS-100A-061
7.3728	X123-ND	1.88	1.69	1.35	1.20	ECS-100A-073
8.000	X112-ND	1.88	1.69	1.35	1.20	ECS-100A-080
9.216	X113-ND	1.88	1.69	1.35	1.20	ECS-100A-092.1
9.8304	X124-ND	1.88	1.69	1.35	1.20	ECS-100A-098.3
10.000	X114-ND	1.88	1.69	1.35	1.20	ECS-100A-100
11.0592	X125-ND	1.88	1.69	1.35	1.20	ECS-100A-110.5
12.000	X126-ND	1.88	1.69	1.35	1.20	ECS-100A-120
14.31818	X115-ND	1.88	1.69	1.35	1.20	ECS-100A-143
14.7456	X127-ND	1.88	1.69	1.35	1.20	ECS-100A-147.4
16.000	X116-ND	1.88	1.69	1.35	1.20	ECS-100A-160
16.257	X128-ND	1.88	1.69	1.35	1.20	ECS-100A-162.5
18.000	X117-ND	1.88	1.69	1.35	1.20	ECS-100A-180
18.432	X118-ND	1.88	1.69	1.35	1.20	ECS-100A-184
19.6608	XC314-ND	1.88	1.69	1.35	1.20	ECS-100A-196.6
20.000	X119-ND	1.88	1.69	1.35	1.20	ECS-100A-200
24.000	X129-ND	1.88	1.69	1.35	1.20	ECS-100A-240
25.000	XC315-ND	1.88	1.69	1.35	1.20	ECS-100A-250
25.175	X130-ND	1.88	1.69	1.35	1.20	ECS-100A-251.7
28.322	X131-ND	1.88	1.69	1.35	1.20	ECS-100A-283.2
30.000	XC316-ND	1.88	1.69	1.35	1.20	ECS-100A-300
32.000	X132-ND	1.88	1.69	1.35	1.20	ECS-100A-320
32.514	X133-ND	1.88	1.69	1.35	1.20	ECS-100A-325.1
35.000	X134-ND	1.88	1.69	1.35	1.20	ECS-100A-350
40.000	X120-ND	1.88	1.69	1.35	1.20	ECS-100A-400
48.000	X135-ND	1.88	1.69	1.35	1.20	ECS-100A-480
50.000	X121-ND	1.88	1.69	1.35	1.20	ECS-100A-500
64.000	X136-ND	1.88	1.69	1.35	1.20	ECS-100A-640
66.666	XC228-ND	1.88	1.69	1.35	1.20	ECS-100A-666

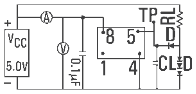
A462-ND	Aries Full-Size Socket for a 4-Pin Oscillator	$.60/1; $12.50/25; $40.48/100
A463-ND	Aries Half-Size Socket for a 4-Pin Oscillator	$.60/1; $12.50/25; $40.48/100

Half Size TTL Clock Oscillators

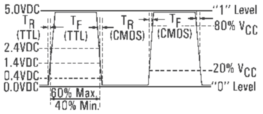
Electrical Characteristics:

- **Frequency Stability:**
  - ±100ppm max.
- **Supply Voltage:**
  - 4.5V min., 5.5V max.
- **Input Current:**
  - 1.000 ~ 25.000MHz: 25mA
  - 25.000+ ~ 50.000MHz: 46mA
  - 50.000+ ~ 66.666MHz: 77mA
- **Output Symmetry @ 2.5V:**
  - 1.000 ~ 66.666MHz:
  - 45% min., 55% max.
- **Operating Temp.:**
  - 0°C to +70°C
- **Storage Temp.:**
  - -55°C to +125C
- **Rise Time (0.5V to 4.5V):** 5nS
- **Fall Time (4.5V to 0.5V):** 5nS
- **Output Voltage**
  - IOL = 16mA: 0.5V max.
  - IOH = -16mA: 4.5V min.
- **Output Current:**
  - VOL = 0.5V: 16mA max.
  - VOH = 4.5V: -16mA max.
- **Output Load:**
  - TTL: 10 TTL max.
  - HCMOS: 50pf
- **Start up Time:** 10mS





R_L = 400Ω
D: Switching Diode 1N4148
C_L = 15pF Max.



Pin	Connection
1	NC
4	GND
5	Output
8	Vcc

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1.000	XC229-ND	2.13	1.92	1.53	1.36	ECS-2100A-010
1.2288	XC230-ND	2.13	1.92	1.53	1.36	ECS-2100A-012.2
1.8432	XC231-ND	2.13	1.92	1.53	1.36	ECS-2100A-018
2.000	XC232-ND	2.13	1.92	1.53	1.36	ECS-2100A-020
2.4576	XC233-ND	2.13	1.92	1.53	1.36	ECS-2100A-024
3.6864	XC234-ND	2.13	1.92	1.53	1.36	ECS-2100A-036
3.579545	XC235-ND	2.13	1.92	1.53	1.36	ECS-2100A-035
4.000	X202-ND	2.13	1.92	1.53	1.36	ECS-2100A-040
4.9152	XC236-ND	2.13	1.92	1.53	1.36	ECS-2100A-049
5.000	XC237-ND	2.13	1.92	1.53	1.36	ECS-2100A-050
5.0688	XC238-ND	2.13	1.92	1.53	1.36	ECS-2100A-051
6.000	XC239-ND	2.13	1.92	1.53	1.36	ECS-2100A-060
6.144	XC240-ND	2.13	1.92	1.53	1.36	ECS-2100A-061
7.3728	X208-ND	2.13	1.92	1.53	1.36	ECS-2100A-073.2
8.000	X209-ND	2.13	1.92	1.53	1.36	ECS-2100A-080
9.216	XC241-ND	2.13	1.92	1.53	1.36	ECS-2100A-092.1
9.8304	XC242-ND	2.13	1.92	1.53	1.36	ECS-2100A-098.3
10.000	XC243-ND	2.13	1.92	1.53	1.36	ECS-2100A-100
11.0592	XC244-ND	2.13	1.92	1.53	1.36	ECS-2100A-110.5
12.000	XC245-ND	2.13	1.92	1.53	1.36	ECS-2100A-120
14.31818	XC246-ND	2.13	1.92	1.53	1.36	ECS-2100A-143
14.7456	XC247-ND	2.13	1.92	1.53	1.36	ECS-2100A-147.4
16.000	X216-ND	2.13	1.92	1.53	1.36	ECS-2100A-160
16.257	XC248-ND	2.13	1.92	1.53	1.36	ECS-2100A-162.5
18.000	XC249-ND	2.13	1.92	1.53	1.36	ECS-2100A-180
18.432	XC250-ND	2.13	1.92	1.53	1.36	ECS-2100A-184
19.6608	XC251-ND	2.13	1.92	1.53	1.36	ECS-2100A-196.6
20.000	X220-ND	2.13	1.92	1.53	1.36	ECS-2100A-200
24.000	X221-ND	2.13	1.92	1.53	1.36	ECS-2100A-240
25.000	XC252-ND	2.13	1.92	1.53	1.36	ECS-2100A-250
25.175	X222-ND	2.13	1.92	1.53	1.36	ECS-2100A-251.7
28.322	X223-ND	2.13	1.92	1.53	1.36	ECS-2100A-283.2
30.000	XC253-ND	2.13	1.92	1.53	1.36	ECS-2100A-300
32.000	XC254-ND	2.13	1.92	1.53	1.36	ECS-2100A-320
32.514	X224-ND	2.13	1.92	1.53	1.36	ECS-2100A-325.1
35.000	XC255-ND	2.13	1.92	1.53	1.36	ECS-2100A-350
40.000	X225-ND	2.13	1.92	1.53	1.36	ECS-2100A-400
48.000	XC256-ND	2.13	1.92	1.53	1.36	ECS-2100A-480
50.000	X226-ND	2.13	1.92	1.53	1.36	ECS-2100A-500
64.000	XC257-ND	2.13	1.92	1.53	1.36	ECS-2100A-640
66.666	XC258-ND	2.13	1.92	1.53	1.36	ECS-2100A-666

ECS INC. INTERNATIONAL

Surface Mount Oscillators

Electrical Specifications:

	ECS-3953C	ECS-3951C	ECS-3953M	ECS-3951M
Frequency Stability @25°C and over Operating Temp.	±100ppm	±100ppm	±50ppm	±50ppm
Supply Voltage - Min. to Max.	3.0V to 3.6V	4.5V to 5.5V	3.0V to 3.6V	4.5V to 5.5V
Input Current	20.00-32.00MHz - 8mA max. 32.00-50.00MHz - 12mA max. 66.666-80.00MHz - 30mA max.	1.8432 - 20.00MHz - 10mA max. 33.00MHz - 15mA max. 40.00-65.00MHz - 30mA max. 66.666MHz - 50mA max.	1.8432-32.00MHz - 15mA max. 40.00-66.6666MHz - 25mA max. 80.00MHz - 30mA max.	1.8432-33.00MHz - 20mA max. 40.00-66.666MHz - 55mA max.
Output Symmetry @ 1/2 Vcc Level	40% min., 60% max.	40% min., 60% max.	40% min., 60% max.	40% min., 60% max.
Operating Temperature	0°C to +70°C	0°C to +70°C	-10°C to +70°C	-10°C to +70°C
Storage Temperature	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C
Rise and Fall Time	15nS	10nS	5nS	Up to 66.666MHz - 15nS 80.000MHz - 5nS
Output Current (IOL) VOL=0.5V/0.33V	4mA	4mA	4mA	4mA
Output Current (IOH) VOL=4.5V/2.97V	-4mA	-4mA	-4mA	-4mA
Output Load HCMOS	15pF	30pF	15pF	30pF
Enable/Disable Time	100nS	100nS	100nS	100nS

	ECS-3953M-BN
Frequency Stability @25°C and over Operating Temp.	±50ppm
Supply Voltage - Min. to Max.	+3.0V to +3.6V
Input Current	1.8-36.0MHz - 15mA max. 36.1-70.0MHz - 25mA max. 70.1-100.0MHz - 30mA max. 100.1-125.0MHz - 35mA max.
Output Symmetry @ 1/2 Vcc Level	40% min., 60% max.
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to -125°Ç
Rise and Fall Time	1.8-70.0MHz - 5nS 70.1-125.0MHz - 5nS
Output Current (IOL) VOL=0.5V/0.33V	4mA
Output Current (IOH) VOL=4.5V/2.97V	-4mA
Output Load HCMOS	15pF
Enable/Disable Time	100nS

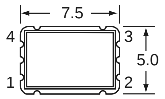
	ECS-3951M-BN
Frequency Stability @25°C and over Operating Temp.	±50ppm
Supply Voltage - Min. to Max.	+4.5V to +5.5V
Input Current	1.8-36.0MHz - 20mA max. 36.1-70.0MHz - 55mA max. 70.1-100.0MHz - 60mA max. 100.1-125.0MHz - 65mA max.
Output Symmetry @ 1/2 Vcc Level	40% min., 60% max.
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to -125°Ç
Rise and Fall Time	1.8-70.0MHz - 15nS 70.1-125.0MHz - 5nS
Output Current (IOL) VOL=0.5V/0.33V	4mA
Output Current (IOH) VOL=4.5V/2.97V	-4mA
Output Load HCMOS	30pF
Enable/Disable Time	100nS

NOTE:

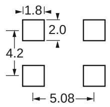
Frequency Stability for ECS-3953C, ECS-3953M, ECS-3951C, and ECS-3951M Series inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

NOTE:

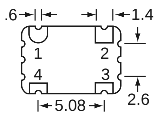
For the Enable/Disable Function in the ECS-3953C, ECS-3953M, ECS-3951C, and ECS-3951M Series, an internal pullup resistor from Pin 1 to Pin 4 allows active output if Pin 1 is left open. A 0.01µF bypass capacitor should be placed between V_{DD} (Pin 4) and GND (Pin 2) to minimize power supply line noise.



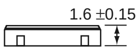
Top View



Pad Layout



Bottom View



Side View

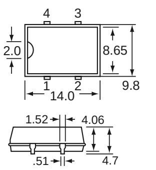
Pin	Connection
1	Enable/Disable
2	GND
3	Output
4	VCC

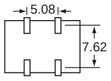
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
ECS-3953C Series Oscillators								
20.000	XC721CT-ND	5.25	4.73	3.94	3.15	XC721TR-ND	2625.00	ECS-3953C-200-TR
24.000	XC722CT-ND	5.25	4.73	3.94	3.15	XC722TR-ND	2625.00	ECS-3953C-240-TR
25.000	XC723CT-ND	5.25	4.73	3.94	3.15	XC723TR-ND	2625.00	ECS-3953C-250-TR
32.000	XC724CT-ND	5.25	4.73	3.94	3.15	XC724TR-ND	2625.00	ECS-3953C-320-TR
40.000	XC725CT-ND	5.25	4.73	3.94	3.15	XC725TR-ND	2625.00	ECS-3953C-400-TR
50.000	XC726CT-ND	5.25	4.73	3.94	3.15	XC726TR-ND	2625.00	ECS-3953C-500-TR
66.666	XC727CT-ND	5.25	4.73	3.94	3.15	XC727TR-ND	2625.00	ECS-3953C-666-TR
80.000	XC728CT-ND	5.25	4.73	3.94	3.15	XC728TR-ND	2625.00	ECS-3953C-800-TR
ECS-3953M Series Oscillators								
1.8432	XC284CT-ND	5.25	4.73	3.94	3.15	XC284TR-ND	2625.00	ECS-3953M-018-B-TR
3.6864	XC285CT-ND	5.25	4.73	3.94	3.15	XC285TR-ND	2625.00	ECS-3953M-036-B-TR
4.000	XC286CT-ND	5.25	4.73	3.94	3.15	XC286TR-ND	2625.00	ECS-3953M-040-B-TR
8.000	XC287CT-ND	5.25	4.73	3.94	3.15	XC287TR-ND	2625.00	ECS-3953M-080-B-TR
10.000	XC288CT-ND	5.25	4.73	3.94	3.15	XC288TR-ND	2625.00	ECS-3953M-100-B-TR
12.000	XC289CT-ND	5.25	4.73	3.94	3.15	XC289TR-ND	2625.00	ECS-3953M-120-B-TR
16.000	XC290CT-ND	5.25	4.73	3.94	3.15	XC290TR-ND	2625.00	ECS-3953M-160-B-TR
20.000	XC790CT-ND	5.25	4.73	3.94	3.15	XC790TR-ND	2625.00	ECS-3953M-200-B-TR
24.000	XC791CT-ND	5.25	4.73	3.94	3.15	XC791TR-ND	2625.00	ECS-3953M-240-B-TR
25.000	XC792CT-ND	5.25	4.73	3.94	3.15	XC792TR-ND	2625.00	ECS-3953M-250-B-TR
32.000	XC793CT-ND	5.25	4.73	3.94	3.15	XC793TR-ND	2625.00	ECS-3953M-320-B-TR
40.000	XC794CT-ND	5.25	4.73	3.94	3.15	XC794TR-ND	2625.00	ECS-3953M-400-B-TR
50.000	XC795CT-ND	5.25	4.73	3.94	3.15	XC795TR-ND	2625.00	ECS-3953M-500-B-TR
66.666	XC796CT-ND	5.25	4.73	3.94	3.15	XC796TR-ND	2625.00	ECS-3953M-666-B-TR
80.000	XC797CT-ND	5.25	4.73	3.94	3.15	XC797TR-ND	2625.00	ECS-3953M-800-B-TR
ECS-3953M Extended Temperature Range Oscillators								
1.8432	XC329CT-ND	5.55	5.00	4.17	3.33	XC329TR-ND	2775.00	ECS-3953M-018-BN-TR
3.579545	XC330CT-ND	5.55	5.00	4.17	3.33	XC330TR-ND	2775.00	ECS-3953M-035-BN-TR
3.6864	XC331CT-ND	5.55	5.00	4.17	3.33	XC331TR-ND	2775.00	ECS-3953M-036-BN-TR
4.000	XC332CT-ND	5.55	5.00	4.17	3.33	XC332TR-ND	2775.00	ECS-3953M-040-BN-TR
8.000	XC333CT-ND	5.55	5.00	4.17	3.33	XC333TR-ND	2775.00	ECS-3953M-080-BN-TR
10.000	XC334CT-ND	5.55	5.00	4.17	3.33	XC334TR-ND	2775.00	ECS-3953M-100-BN-TR
12.000	XC335CT-ND	5.55	5.00	4.17	3.33	XC335TR-ND	2775.00	ECS-3953M-120-BN-TR
16.000	XC336CT-ND	5.55	5.00	4.17	3.33	XC336TR-ND	2775.00	ECS-3953M-160-BN-TR
20.000	XC337CT-ND	5.55	5.00	4.17	3.33	XC337TR-ND	2775.00	ECS-3953M-200-BN-TR
24.000	XC338CT-ND	5.55	5.00	4.17	3.33	XC338TR-ND	2775.00	ECS-3953M-240-BN-TR
25.000	XC339CT-ND	5.55	5.00	4.17	3.33	XC339TR-ND	2775.00	ECS-3953M-250-BN-TR
32.000	XC340CT-ND	5.55	5.00	4.17	3.33	XC340TR-ND	2775.00	ECS-3953M-320-BN-TR
40.000	XC341CT-ND	5.55	5.00	4.17	3.33	XC341TR-ND	2775.00	ECS-3953M-400-BN-TR
50.000	XC342CT-ND	5.55	5.00	4.17	3.33	XC342TR-ND	2775.00	ECS-3953M-500-BN-TR
66.666	XC343CT-ND	5.55	5.00	4.17	3.33	XC343TR-ND	2775.00	ECS-3953M-666-BN-TR
80.000	XC344CT-ND	5.55	5.00	4.17	3.33	XC344TR-ND	2775.00	ECS-3953M-800-BN-TR
100.000	XC345CT-ND	5.55	5.00	4.17	3.33	XC345TR-ND	2775.00	ECS-3953M-1000-BN-TR
125.000	XC346CT-ND	5.55	5.00	4.17	3.33	XC346TR-ND	2775.00	ECS-3953M-1250-BN-TR
ECS-3951M Series Oscillators								
1.8432	XC780CT-ND	5.25	4.73	3.94	3.15	XC780TR-ND	2625.00	ECS-3951M-018-B-TR
3.6864	XC781CT-ND	5.25	4.73	3.94	3.15	XC781TR-ND	2625.00	ECS-3951M-036-B-TR
12.000	XC782CT-ND	5.25	4.73	3.94	3.15	XC782TR-ND	2625.00	ECS-3951M-120-B-TR
16.000	XC783CT-ND	5.25	4.73	3.94	3.15	XC783TR-ND	2625.00	ECS-3951M-160-B-TR
20.000	XC784CT-ND	5.25	4.73	3.94	3.15	XC784TR-ND	2625.00	ECS-3951M-200-B-TR
33.000	XC785CT-ND	5.25	4.73	3.94	3.15	XC785TR-ND	2625.00	ECS-3951M-330-B-TR
40.000	XC786CT-ND	5.25	4.73	3.94	3.15	XC786TR-ND	2625.00	ECS-3951M-400-B-TR
50.000	XC787CT-ND	5.25	4.73	3.94	3.15	XC787TR-ND	2625.00	ECS-3951M-500-B-TR
65.000	XC788CT-ND	5.25	4.73	3.94	3.15	XC788TR-ND	2625.00	ECS-3951M-650-B-TR
66.666	XC789CT-ND	5.25	4.73	3.94	3.15	XC789TR-ND	2625.00	ECS-3951M-666-B-TR
ECS-3951C Series Oscillators								
1.8432	XC653CT-ND	5.25	4.73	3.94	3.15	XC653TR-ND	2625.00	ECS-3951C-018-TR
3.6864	XC654CT-ND	5.25	4.73	3.94	3.15	XC654TR-ND	2625.00	ECS-3951C-036-TR
12.000	XC655CT-ND	5.25	4.73	3.94	3.15	XC655TR-ND	2625.00	ECS-3951C-120-TR
16.000	XC656CT-ND	5.25	4.73	3.94	3.15	XC656TR-ND	2625.00	ECS-3951C-160-TR
20.000	XC657CT-ND	5.25	4.73	3.94	3.15	XC657TR-ND	2625.00	ECS-3951C-200-TR
33.000	XC658CT-ND	5.25	4.73	3.94	3.15	XC658TR-ND	2625.00	ECS-3951C-330-TR
40.000	XC659CT-ND	5.25	4.73	3.94	3.15	XC659TR-ND	2625.00	ECS-3951C-400-TR
50.000	XC660CT-ND	5.25	4.73	3.94	3.15	XC660TR-ND	2625.00	ECS-3951C-500-TR
65.000	XC661CT-ND	5.25	4.73	3.94	3.15	XC661TR-ND	2625.00	ECS-3951C-650-TR
66.666	XC662CT-ND	5.25	4.73	3.94	3.15	XC662TR-ND	2625.00	ECS-3951C-666-TR1
ECS-3951M Extended Temperature Range Oscillators								
1.8432	XC291CT-ND	5.55	5.00	4.17	3.33	XC291TR-ND	2775.00	ECS-3951M-018-BN-TR
3.579545	XC292CT-ND	5.55	5.00	4.17	3.33	XC292TR-ND	2775.00	ECS-3951M-035-BN-TR
3.6864	XC293CT-ND	5.55	5.00	4.17	3.33	XC293TR-ND	2775.00	ECS-3951M-036-BN-TR
4.000	XC294CT-ND	5.55	5.00	4.17	3.33	XC294TR-ND	2775.00	ECS-3951M-040-BN-TR
8.000	XC295CT-ND	5.55	5.00	4.17	3.33	XC295TR-ND	2775.00	ECS-3951M-080-BN-TR
10.000	XC296CT-ND	5.55	5.00	4.17	3.33	XC296TR-ND	2775.00	ECS-3951M-100-BN-TR
12.000	XC297CT-ND	5.55	5.00	4.17	3.33	XC297TR-ND	2775.00	ECS-3951M-120-BN-TR
16.000	XC298CT-ND	5.55	5.00	4.17	3.33	XC298TR-ND	2775.00	ECS-3951M-160-BN-TR
20.000	XC299CT-ND	5.55	5.00	4.17	3.33	XC299TR-ND	2775.00	ECS-3951M-200-BN-TR
24.000	XC300CT-ND	5.55	5.00	4.17	3.33	XC300TR-ND	2775.00	ECS-3951M-240-BN-TR
25.000	XC321CT-ND	5.55	5.00	4.17	3.33	XC321TR-ND	2775.00	ECS-3951M-250-BN-TR
32.000	XC322CT-ND	5.55	5.00	4.17	3.33	XC322TR-ND	2775.00	ECS-3951M-320-BN-TR
40.000	XC323CT-ND	5.55	5.00	4.17	3.33	XC323TR-ND	2775.00	ECS-3951M-400-BN-TR
50.000	XC324CT-ND	5.55	5.00	4.17	3.33	XC324TR-ND	2775.00	ECS-3951M-500-BN-TR
66.666	XC325CT-ND	5.55	5.00	4.17	3.33	XC325TR-ND	2775.00	ECS-3951M-666-BN-TR
80.000	XC326CT-ND	5.55	5.00	4.17	3.33	XC326TR-ND	2775.00	ECS-3951M-800-BN-TR
100.000	XC327CT-ND	5.55	5.00	4.17	3.33	XC327TR-ND	2775.00	ECS-3951M-1000-BN-TR

(Continued)

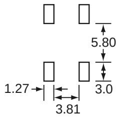
ECS INC. INTERNATIONAL Surface Mount Oscillators *(Cont.)*

ECS-8FM Oscillator





Pin	Connection
1	Enable/Disable
2	GND
3	OUT
4	+5V DC



Pad Layout

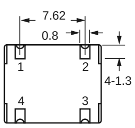
ELECTRICAL CHARACTERISTICS:

- **Frequency Stability:** ±100ppm over operating temp. range
- **Supply Voltage:** 4.5V min., 5.5V max.
- **Input Current:** 1.00 ~ 32.00MHz: 27mA; 32.00+ ~ 50.00MHz: 45mA; 50.00+ ~ 66.666MHz: 60mA
- **Output Symmetry @ 2.5V:** 1.00 ~ 50.00MHz: 45% min., 55% max.; 50.00+ ~ 66.666MHz: 40% min., 60% max.
- **Operating Temperature:** -10°C to +70°C
- **Storage Temp.:** -55°C to +125°C
- **Rise Time (0.5V to 4.5V):** 7nS
- **Fall Time (4.5V to 0.5V):** 7nS
- **Output Voltage:** IOL = 16mA: 0.5V max.; IOH = -16mA: 4.5V min.
- **Output Current:** VOL = 0.5V: 16mA max.; VOH = 4.5V: -16mA max.
- **Output Load:** TTL: 10 TTL max.; HCMOS: 50pF max.
- **Start-up Time:** 10mS max.
- **Enable/Disable Time:** 100nS max.

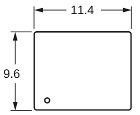
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
ECS-8FM Series Oscillators								
1.000	XC703CT-ND	2.97	2.48	1.98	1.82	XC703TR-ND	1503.00	ECS-8FM-010-TR
1.8432	XC704CT-ND	2.97	2.48	1.98	1.82	XC704TR-ND	1503.00	ECS-8FM-018-TR
2.000	XC705CT-ND	2.97	2.48	1.98	1.82	XC705TR-ND	1503.00	ECS-8FM-020-TR
2.4576	XC706CT-ND	2.97	2.48	1.98	1.82	XC706TR-ND	1503.00	ECS-8FM-024-TR
3.579545	XC707CT-ND	2.97	2.48	1.98	1.82	XC707TR-ND	1503.00	ECS-8FM-035-TR
3.6864	XC708CT-ND	2.97	2.48	1.98	1.82	XC708TR-ND	1503.00	ECS-8FM-036-TR
4.000	XC635CT-ND	3.30	2.97	2.48	1.98	XC635TR-ND	1503.00	ECS-8FM-040-TR
4.9152	XC636CT-ND	3.30	2.97	2.48	1.98	XC636TR-ND	1503.00	ECS-8FM-049-TR
6.000	XC637CT-ND	3.30	2.97	2.48	1.98	XC637TR-ND	1503.00	ECS-8FM-060-TR
7.3728	XC709CT-ND	2.97	2.48	1.98	1.82	XC709TR-ND	1503.00	ECS-8FM-073-TR
8.000	XC638CT-ND	3.30	2.97	2.48	1.98	XC638TR-ND	1503.00	ECS-8FM-080-TR
9.8304	XC710CT-ND	2.97	2.48	1.98	1.82	XC710TR-ND	1503.00	ECS-8FM-098.3-TR
10.000	XC639CT-ND	3.30	2.97	2.48	1.98	XC639TR-ND	1503.00	ECS-8FM-100-TR
11.0592	XC711CT-ND	2.97	2.48	1.98	1.82	XC711TR-ND	1503.00	ECS-8FM-100.5-TR
12.000	XC640CT-ND	3.30	2.97	2.48	1.98	XC640TR-ND	1503.00	ECS-8FM-120-TR
12.288	XC712CT-ND	2.97	2.48	1.98	1.82	XC712TR-ND	1503.00	ECS-8FM-122.8-TR
14.31818	XC641CT-ND	3.30	2.97	2.48	1.98	XC641TR-ND	1503.00	ECS-8FM-143-TR
16.000	XC642CT-ND	3.30	2.97	2.48	1.98	XC642TR-ND	1503.00	ECS-8FM-160-TR
18.432	XC643CT-ND	3.30	2.97	2.48	1.98	XC643TR-ND	1503.00	ECS-8FM-184-TR
19.6608	XC713CT-ND	2.97	2.48	1.98	1.82	XC713TR-ND	1503.00	ECS-8FM-196.6-TR
20.000	XC644CT-ND	3.30	2.97	2.48	1.98	XC644TR-ND	1503.00	ECS-8FM-200-TR
24.000	XC645CT-ND	3.30	2.97	2.48	1.98	XC645TR-ND	1503.00	ECS-8FM-240-TR
25.000	XC714CT-ND	2.97	2.48	1.98	1.82	XC714TR-ND	1503.00	ECS-8FM-250-TR
25.175	XC646CT-ND	3.30	2.97	2.48	1.98	XC646TR-ND	1503.00	ECS-8FM-251.7-TR
28.322	XC647CT-ND	3.30	2.97	2.48	1.98	XC647TR-ND	1503.00	ECS-8FM-283.2-TR
32.000	XC648CT-ND	3.30	2.97	2.48	1.98	XC648TR-ND	1503.00	ECS-8FM-320-TR
32.514	XC649CT-ND	3.30	2.97	2.48	1.98	XC649TR-ND	1503.00	ECS-8FM-325.1-TR
40.000	XC650CT-ND	3.30	2.97	2.48	1.98	XC650TR-ND	1503.00	ECS-8FM-400-TR
48.000	XC651CT-ND	3.30	2.97	2.48	1.98	XC651TR-ND	1503.00	ECS-8FM-480-TR
50.000	XC652CT-ND	3.30	2.97	2.48	1.98	XC652TR-ND	1503.00	ECS-8FM-500-TR
66.666	XC715CT-ND	2.97	2.48	1.98	1.82	XC715TR-ND	1503.00	ECS-8FM-666-TR

VC-TXO Oscillators

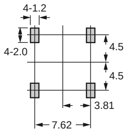
VC-TXO-39SM



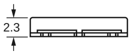
Bottom View



Top View



Pad Layout

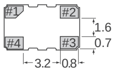


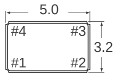
Pin	Connection	Pin	Connection
1	Vcontrol	3	Output
2	GND	4	Vcc

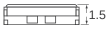
ELECTRICAL CHARACTERISTICS:

- **Freq. Stability** (@ -30°C to +75°C): ± 2.5ppm max.
- **Supply Voltage:** +2.85 V min., 3.15 V max.
- **Storage Temperature:** -40°C to +85°C
- **Output Voltage:** 0.8 Vp-p min.
- **Output Load:** 10kΩ ±10%//10pF ±10%
- **Control Voltage:** +1.5V typ.

VC-TXO35SM







Pin	Connection	Pin	Connection
1	Vcontrol	3	Output
2	GND	4	Vcc

ELECTRICAL CHARACTERISTICS:

- **Freq. Stability** (@ -30°C to +75°C): ± 2.5ppm max.
- **Supply Voltage:** +2.85 V min., +3.15 V max.
- **Storage Temperature:** -40°C to +85°C
- **Output Voltage:** 0.8 Vp-p min.
- **Output Load:** 10kΩ ±10%//10pF ±10%
- **Control Voltage:** +1.5V typ.

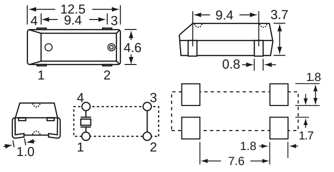
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 500	1,000	ECS Part No.
VC-TXO-39SM Oscillators									
10.000	X493CT-ND	15.13	12.38	11.00	—	X493TR-ND	4950.00	7700.00	VC-TXO-39SM-100
12.800	X489CT-ND	15.13	12.38	11.00	—	X489TR-ND	4950.00	7700.00	VC-TXO-39SM-128
13.000	X490CT-ND	15.13	12.38	11.00	—	X490TR-ND	4950.00	7700.00	VC-TXO-39SM-130
16.800	X491CT-ND	15.13	12.38	11.00	—	X491TR-ND	4950.00	7700.00	VC-TXO-39SM-168
19.440	X492CT-ND	15.13	12.38	11.00	—	X492TR-ND	4950.00	7700.00	VC-TXO-39SM-194.4
VC-TXO-35SM Oscillators									
12.800	XC348CT-ND	14.85	13.37	11.14	8.91	XC348TR-ND	—	7425.00	VC-TXO-35SM-128-B
16.800	XC349CT-ND	14.85	13.37	11.14	8.91	XC349TR-ND	—	7425.00	VC-TXO-35SM-168-B
19.44	XC350CT-ND	14.85	13.37	11.14	8.91	XC350TR-ND	—	7425.00	VC-TXO-35SM-194-B

SMT Low Profile Quartz Crystals

ECX-3S

The ECX-3S Series has a special high temperature seal which is able to withstand SMD soldering techniques. Housing for this crystal is made from the same rugged thermoplastic that is standard for integrated circuits.

ELECTRICAL CHARACTERISTICS: • **Frequency Tolerance:** ±30 ppm @ +25°C and ±50ppm over operating temp. range • **Shunt Capacitance:** 7.0pF • **Drive Level:** 0.1mW • **Operating Temperature:** -10°C to +70°C • **Storage Temp.:** -40°C to +85°C • **Mode of Operation:** Fundamental



Freq. (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,000	ECS Part No.
3.579545	17pF	XC501CT-ND•	2.03	1.69	1.35	XC501TR-ND	1012.50	ECS-35-17-7S
3.579545	Series	XC529CT-ND	2.03	1.69	1.35	XC529TR-ND	1012.50	ECS-35-S-7S
3.6864	Series	XC502CT-ND•	2.03	1.69	1.35	XC502TR-ND	1012.50	ECS-36-S-7S
3.6864	20pF	XC503CT-ND•	2.03	1.69	1.35	XC503TR-ND	1012.50	ECS-36-20-7S
4.000	Series	XC504CT-ND•	2.03	1.69	1.35	XC504TR-ND	1012.50	ECS-40-S-7S
4.000	20pF	XC505CT-ND•	2.03	1.69	1.35	XC505TR-ND	1012.50	ECS-40-20-7S
4.096	16pF	XC500CT-ND	2.03	1.69	1.35	XC500TR-ND	1125.00	ECS-41-16-7S
4.194304	12pF	XC530CT-ND	2.03	1.69	1.35	XC530TR-ND	1012.50	ECS-42-12-7S
4.433618	20pF	XC506CT-ND•	2.03	1.69	1.35	XC506TR-ND	1012.50	ECS-44-20-7S
4.9152	Series	XC507CT-ND•	2.03	1.69	1.35	XC507TR-ND	1012.50	ECS-49-S-7S
4.9152	20pF	XC508CT-ND•	2.03	1.69	1.35	XC508TR-ND	1012.50	ECS-49-20-7S
5.000	20pF	XC499CT-ND	2.03	1.69	1.35	XC499TR-ND	1125.00	ECS-50-20-7S
6.000	32pF	XC498CT-ND	2.03	1.69	1.35	XC498TR-ND	1125.00	ECS-60-32-7S
6.000	Series	XC497CT-ND	2.03	1.69	1.35	XC497TR-ND	1125.00	ECS-60-S-7S
6.144	32pF	XC509CT-ND•	2.03	1.69	1.35	XC509TR-ND	1012.50	ECS-61-32-7S

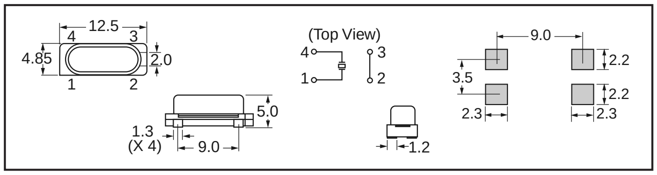
Freq. (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,000	ECS Part No.
6.5536	12pF	XC496CT-ND	2.03	1.69	1.35	XC496TR-ND	1125.00	ECS-65-12-7S
7.3728	20pF	XC536CT-ND	2.03	1.69	1.35	XC536TR-ND	1012.50	ECS-73-20-7S
7.3728	Series	XC510CT-ND•	2.03	1.69	1.35	XC510TR-ND	1012.50	ECS-73-S-7S
8.000	Series	XC511CT-ND•	2.03	1.69	1.35	XC511TR-ND	1012.50	ECS-80-S-7S
8.000	16pF	XC495CT-ND	2.03	1.69	1.35	XC495TR-ND	1125.00	ECS-80-16-7S
9.8304	Series	XC512CT-ND•	2.03	1.69	1.35	XC512TR-ND	1012.50	ECS-98.3-S-7S
9.8304	20pF	XC513CT-ND•	2.03	1.69	1.35	XC513TR-ND	1012.50	ECS-98.3-20-7S
10.000	Series	XC514CT-ND•	2.03	1.69	1.35	XC514TR-ND	1012.50	ECS-100-S-7S
11.0592	Series	XC515CT-ND•	2.03	1.69	1.35	XC515TR-ND	1012.50	ECS-110.5-S-7S
11.0592	20pF	XC516CT-ND•	2.03	1.69	1.35	XC516TR-ND	1012.50	ECS-110.5-20-7S
12.000	18pF	XC548CT-ND	2.03	1.69	1.35	XC548TR-ND	1012.50	ECS-120-18-7S
12.000	Series	XC517CT-ND•	2.03	1.69	1.35	XC517TR-ND	1012.50	ECS-120-S-7S
12.000	32pF	XC494CT-ND	2.03	1.69	1.35	XC494TR-ND	1125.00	ECS-120-32-7S
12.288	Series	XC518CT-ND•	2.03	1.69	1.35	XC518TR-ND	1012.50	ECS-122.8-S-7S
12.288	20pF	XC493CT-ND	2.03	1.69	1.35	XC493TR-ND	1125.00	ECS-122.8-20-7S
14.31818	Series	XC519CT-ND•	2.03	1.69	1.35	XC519TR-ND	1012.50	ECS-143-S-7S
14.31818	20pF	XC492CT-ND	2.03	1.69	1.35	XC492TR-ND	1125.00	ECS-143-20-7S
14.7456	Series	XC520CT-ND•	2.03	1.69	1.35	XC520TR-ND	1012.50	ECS-147.4-S-7S
14.7456	20pF	XC491CT-ND	2.03	1.69	1.35	XC491TR-ND	1125.00	ECS-147.4-20-7S
16.000	20pF	XC550CT-ND	2.03	1.69	1.35	XC550TR-ND	1012.50	ECS-160-20-7S
16.000	Series	XC521CT-ND•	2.03	1.69	1.35	XC521TR-ND	1012.50	ECS-160-S-7S
18.432	Series	XC522CT-ND•	2.03	1.69	1.35	XC522TR-ND	1012.50	ECS-184-S-7S
19.6608	Series	XC523CT-ND•	2.03	1.69	1.35	XC523TR-ND	1012.50	ECS-196.6-S-7S
19.6608	20pF	XC490CT-ND	2.03	1.69	1.35	XC490TR-ND	1125.00	ECS-196.6-20-7S
20.000	Series	XC524CT-ND•	2.03	1.69	1.35	XC524TR-ND	1012.50	ECS-200-S-7S
20.000	16pF	XC489CT-ND	2.03	1.69	1.35	XC489TR-ND	1125.00	ECS-200-16-7S
20.000	20pF	XC525CT-ND•	2.03	1.69	1.35	XC525TR-ND	1012.50	ECS-200-20-7S
23.592	Series	XC559CT-ND	2.03	1.69	1.35	XC559TR-ND	1012.50	ECS-235.92-S-7S
24.000	Series	XC526CT-ND•	2.03	1.69	1.35	XC526TR-ND	1012.50	ECS-240-S-7S
24.000	20pF	XC527CT-ND•	2.03	1.69	1.35	XC527TR-ND	1012.50	ECS-240-20-7S
24.000	16pF	XC528CT-ND	2.03	1.69	1.35	XC528TR-ND	1012.50	ECS-240-16-7S

- **XC-KIT-ND** ***Digi-Key® SMT Low Profile Quartz Crystal Kit*** 3 each of values denoted (81 total pieces). Notebook style storage case and bin storage guide included. **$169.00**

ECS INC. INTERNATIONAL

SMT Low Profile Quartz Crystals

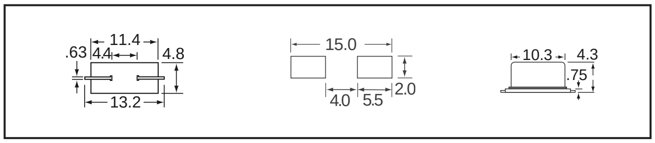
CSM-4A



ELECTRICAL CHARACTERISTICS: • **Frequency Tolerance:** ±30ppm @ +25°C and ±50ppm over operating temperature range • **Shunt Capacitance:** 7.0pF • **Drive Level:** 0.5mW • **Operating Temperature:** -10°C to +70°C • **Storage Temperature:** -30°C to +85°C • **Mode of Operation:** Fundamental. The CSM-4A is also pin-out compatible with the Epson MA-506.

Freq. (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,000	ECS Part No.
3.579545	17pF	XC747CT-ND	1.35	1.24	1.02	XC747TR-ND	675.00	ECS-35-17-28A
3.6864	20pF	XC748CT-ND	1.35	1.24	1.02	XC748TR-ND	675.00	ECS-36-20-28A
4.000	20pF	XC749CT-ND	1.35	1.24	1.02	XC749TR-ND	675.00	ECS-40-20-28A
4.9152	20pF	XC751CT-ND	1.35	1.24	1.02	XC751TR-ND	675.00	ECS-49-20-28A
5.000	20pF	XC750CT-ND	1.35	1.24	1.02	XC750TR-ND	675.00	ECS-50-20-28A
6.000	32pF	XC752CT-ND	1.35	1.24	1.02	XC752TR-ND	675.00	ECS-60-32-28A
7.3728	20pF	XC753CT-ND	1.35	1.24	1.02	XC753TR-ND	675.00	ECS-73-20-28A
8.000	16pF	XC754CT-ND	1.35	1.24	1.02	XC754TR-ND	675.00	ECS-80-16-28A
9.8304	20pF	XC778CT-ND	1.35	1.24	1.02	XC778TR-ND	675.00	ECS-98.3-20-28A
10.000	Series	XC755CT-ND	1.35	1.24	1.02	XC755TR-ND	675.00	ECS-100-S-28A
10.000	20pF	XC756CT-ND	1.35	1.24	1.02	XC756TR-ND	675.00	ECS-100-20-28A
11.0592	Series	XC757CT-ND	1.35	1.24	1.02	XC757TR-ND	675.00	ECS-110.5-S-28A
11.0592	20pF	XC758CT-ND	1.35	1.24	1.02	XC758TR-ND	675.00	ECS-110.5-20-28A
12.000	Series	XC760CT-ND	1.35	1.24	1.02	XC760TR-ND	675.00	ECS-120-S-28A
12.000	18pF	XC759CT-ND	1.35	1.24	1.02	XC759TR-ND	675.00	ECS-120-18-28A
12.000	32pF	XC761CT-ND	1.35	1.24	1.02	XC761TR-ND	675.00	ECS-120-32-28A
12.288	20pF	XC762CT-ND	1.35	1.24	1.02	XC762TR-ND	675.00	ECS-122.8-20-28A
14.31818	Series	XC764CT-ND	1.35	1.24	1.02	XC764TR-ND	675.00	ECS-143-S-28A
14.31818	20pF	XC763CT-ND	1.35	1.24	1.02	XC763TR-ND	675.00	ECS-143-20-28A
14.7456	Series	XC765CT-ND	1.35	1.24	1.02	XC765TR-ND	675.00	ECS-147.4-S-28A
14.7456	20pF	XC766CT-ND	1.35	1.24	1.02	XC766TR-ND	675.00	ECS-147.4-20-28A
16.000	Series	XC768CT-ND	1.35	1.24	1.02	XC768TR-ND	675.00	ECS-160-S-28A
16.000	20pF	XC767CT-ND	1.35	1.24	1.02	XC767TR-ND	675.00	ECS-160-20-28A
18.432	Series	XC769CT-ND	1.35	1.24	1.02	XC769TR-ND	675.00	ECS-184-S-28A
18.432	20pF	XC770CT-ND	1.35	1.24	1.02	XC770TR-ND	675.00	ECS-184-20-28A
20.000	Series	XC771CT-ND	1.35	1.24	1.02	XC771TR-ND	675.00	ECS-200-S-28A
20.000	20pF	XC772CT-ND	1.35	1.24	1.02	XC772TR-ND	675.00	ECS-200-20-28A
24.000	Series	XC773CT-ND	1.35	1.24	1.02	XC773TR-ND	675.00	ECS-240-S-28A
24.000	20pF	XC774CT-ND	1.35	1.24	1.02	XC774TR-ND	675.00	ECS-240-20-28A
24.576	20pF	XC775CT-ND	1.35	1.24	1.02	XC775TR-ND	675.00	ECS-245.7-20-28A
25.000	20pF	XC776CT-ND	1.35	1.24	1.02	XC776TR-ND	675.00	ECS-250-20-28A-F

CSM-7 Case — HC-49USMD



ELECTRICAL CHARACTERISTICS:

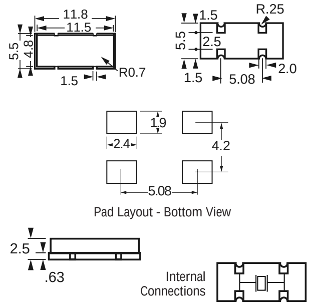
• **Frequency Tolerance:** ±30ppm @ +25°C and ±50ppm over operating temperature range • **Frequency Stability** (Extended Temp. Version)**:** ±100ppm, -40°C to +85°C • **Shunt Capacitance:** 7.0pF • **Drive Level:** 0.5mW • **Operating Temperature:** -10°C to +70°C (Extended Temperature Version: -40°C to +85°C) • **Storage Temperature:** -30°C to +85°C (Extended Temp. Version: -55°C to +125°C) • **Aging Characteristics (first year):** ±5.0ppm @ 25°C • **Mode of Operation:** Fundamental

Freq. (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,000	ECS Part No.
CSM-7 Case								
3.579545	17pF	XC560CT-ND	.73	.61	.49	XC560TR-ND	364.50	ECS-35-17-5P
3.579545	Series	XC663CT-ND	.73	.61	.49	XC663TR-ND	405.00	ECS-35-S-5P
3.6864	Series	XC561CT-ND	.73	.61	.49	XC561TR-ND	364.50	ECS-36-S-5P
3.6864	20pF	XC562CT-ND	.73	.61	.49	XC562TR-ND	364.50	ECS-36-20-5P
4.000	Series	XC563CT-ND	.73	.61	.49	XC563TR-ND	364.50	ECS-40-S-5P
4.000	20pF	XC564CT-ND	.73	.61	.49	XC564TR-ND	364.50	ECS-40-20-5P
4.032	20pF	XC664CT-ND	.73	.61	.49	XC664TR-ND	405.00	ECS-40.3-20-5P
4.032	Series	XC665CT-ND	.73	.61	.49	XC665TR-ND	405.00	ECS-40.3-S-5P
4.096	20pF	XC666CT-ND	.73	.61	.49	XC666TR-ND	405.00	ECS-41-20-5P
4.194304	12pF	XC667CT-ND	.73	.61	.49	XC667TR-ND	405.00	ECS-42-12-5P
4.194304	16pF	XC668CT-ND	.73	.61	.49	XC668TR-ND	405.00	ECS-42-16-5P
4.433618	20pF	XC669CT-ND	.73	.61	.49	XC669TR-ND	405.00	ECS-44-20-5P
4.9152	Series	XC565CT-ND	.73	.61	.49	XC565TR-ND	364.50	ECS-49-S-5P
4.9152	20pF	XC566CT-ND	.73	.61	.49	XC566TR-ND	364.50	ECS-49-20-5P
5.000	Series	XC670CT-ND	.73	.61	.49	XC670TR-ND	405.00	ECS-50-S-5P
5.000	20pF	XC671CT-ND	.73	.61	.49	XC671TR-ND	405.00	ECS-50-20-5P
5.0688	Series	XC672CT-ND	.73	.61	.49	XC672TR-ND	405.00	ECS-51-S-5P
5.0688	20pF	XC673CT-ND	.73	.61	.49	XC673TR-ND	405.00	ECS-51-20-5P
5.185	Series	XC674CT-ND	.73	.61	.49	XC674TR-ND	405.00	ECS-52-S-5P
5.185	32pF	XC675CT-ND	.73	.61	.49	XC675TR-ND	405.00	ECS-52-32-5P
5.9904	Series	XC676CT-ND	.73	.61	.49	XC676TR-ND	405.00	ECS-59-S-5P
5.9904	20pF	XC677CT-ND	.73	.61	.49	XC677TR-ND	405.00	ECS-59-20-5P
6.000	Series	XC678CT-ND	.73	.61	.49	XC678TR-ND	405.00	ECS-60-S-5P
6.000	32pF	XC679CT-ND	.73	.61	.49	XC679TR-ND	405.00	ECS-60-32-5P
6.144	32pF	XC567CT-ND	.73	.61	.49	XC567TR-ND	364.50	ECS-61-32-5P
7.3728	Series	XC568CT-ND	.73	.61	.49	XC568TR-ND	364.50	ECS-73-S-5P
7.3728	20pF	XC680CT-ND	.73	.61	.49	XC680TR-ND	405.00	ECS-73-20-5P
8.000	Series	XC569CT-ND	.73	.61	.49	XC569TR-ND	364.50	ECS-80-S-5P
8.000	18pF	XC681CT-ND	.73	.61	.49	XC681TR-ND	405.00	ECS-80-18-5P
8.000	32pF	XC682CT-ND	.73	.61	.49	XC682TR-ND	405.00	ECS-80-32-5P
9.216	Series	XC683CT-ND	.73	.61	.49	XC683TR-ND	405.00	ECS-92.1-S-5P
9.216	20pF	XC684CT-ND	.73	.61	.49	XC684TR-ND	405.00	ECS-92.1-20-5P
9.8304	Series	XC570CT-ND	.73	.61	.49	XC570TR-ND	364.50	ECS-98.3-S-5P
9.8304	20pF	XC571CT-ND	.73	.61	.49	XC571TR-ND	364.50	ECS-98.3-20-5P
10.000	Series	XC572CT-ND	.73	.61	.49	XC572TR-ND	364.50	ECS-100-S-5P
10.000	18pF	XC716CT-ND	.73	.61	.49	XC716TR-ND	364.50	ECS-100-18-5P
11.000	Series	XC685CT-ND	.73	.61	.49	XC685TR-ND	405.00	ECS-110-S-5P
11.0592	Series	XC573CT-ND	.73	.61	.49	XC573TR-ND	364.50	ECS-110.5-S-5P
11.0592	20pF	XC574CT-ND	.73	.61	.49	XC574TR-ND	364.50	ECS-110.5-20-5P
11.0592	32pF	XC686CT-ND	.73	.61	.49	XC686TR-ND	405.00	ECS-110.5-32-5P
12.000	Series	XC575CT-ND	.73	.61	.49	XC575TR-ND	364.50	ECS-120-S-5P
12.000	18pF	XC717CT-ND	.73	.61	.49	XC717TR-ND	364.50	ECS-120-18-5P
12.000	32pF	XC687CT-ND	.73	.61	.49	XC687TR-ND	405.00	ECS-120-32-5P
12.000393	18pF	XC688CT-ND	.73	.61	.49	XC688TR-ND	405.00	ECS-120.003-18-5P
12.288	Series	XC689CT-ND	.73	.61	.49	XC689TR-ND	405.00	ECS-122.8-S-5P
12.288	20pF	XC690CT-ND	.73	.61	.49	XC690TR-ND	405.00	ECS-122.8-20-5P
14.31818	Series	XC576CT-ND	.73	.61	.49	XC576TR-ND	364.50	ECS-143-S-5P
14.31818	20pF	XC718CT-ND	.73	.61	.49	XC718TR-ND	364.50	ECS-143-20-5P
14.7456	Series	XC691CT-ND	.73	.61	.49	XC691TR-ND	405.00	ECS-147.4-S-5P
14.7456	20pF	XC692CT-ND	.73	.61	.49	XC692TR-ND	405.00	ECS-147.4-20-5P
15.000	Series	XC693CT-ND	.73	.61	.49	XC693TR-ND	405.00	ECS-150-S-5P
16.000	Series	XC577CT-ND	.73	.61	.49	XC577TR-ND	364.50	ECS-160-S-5P
16.000	20pF	XC694CT-ND	.73	.61	.49	XC694TR-ND	405.00	ECS-160-20-5P
16.000312	18pF	XC695CT-ND	.73	.61	.49	XC695TR-ND	405.00	ECS-160.003-18-5P
16.257	20pF	XC696CT-ND	.73	.61	.49	XC696TR-ND	405.00	ECS-162.5-20-5P
16.257	Series	XC697CT-ND	.73	.61	.49	XC697TR-ND	405.00	ECS-162.5-S-5P
18.000	Series	XC698CT-ND	.73	.61	.49	XC698TR-ND	405.00	ECS-180-S-5P
18.432	Series	XC578CT-ND	.73	.61	.49	XC578TR-ND	364.50	ECS-184-S-5P
18.432	18pF	XC699CT-ND	.73	.61	.49	XC699TR-ND	405.00	ECS-184-18-5P
18.432	20pF	XC700CT-ND	.73	.61	.49	XC700TR-ND	405.00	ECS-184-20-5P
19.6608	Series	XC579CT-ND	.73	.61	.49	XC579TR-ND	364.50	ECS-196.6-S-5P
19.6608	20pF	XC701CT-ND	.73	.61	.49	XC701TR-ND	405.00	ECS-196.6-20-5P
20.000	Series	XC580CT-ND	.73	.61	.49	XC580TR-ND	364.50	ECS-200-S-5P
20.000	16pF	XC719CT-ND	.73	.61	.49	XC719TR-ND	364.50	ECS-200-16-5P
20.000	20pF	XC581CT-ND	.73	.61	.49	XC581TR-ND	364.50	ECS-200-20-5P
20.480	20pF	XC743CT-ND	.73	.61	.49	XC743TR-ND	364.50	ECS-204.8-20-5P
24.000	20pF	XC582CT-ND	.73	.61	.49	XC582TR-ND	364.50	ECS-240-20-5P
24.000	16pF	XC583CT-ND	.73	.61	.49	XC583TR-ND	364.50	ECS-240-16-5P
24.00014	18pF	XC702CT-ND	.73	.61	.49	XC702TR-ND	405.00	ECS-240.001-18-5P
24.576	20pF	XC744CT-ND	.73	.61	.49	XC744TR-ND	364.50	ECS-245.7-20-5P
25.000	18pF	XC745CT-ND	.73	.61	.49	XC745TR-ND	364.50	ECS-250-18-5P-F
48.000	20pF	XC941CT-ND◊	.73	.61	.49	XC941TR-ND◊	364.50	ECS-480-20-5P-TR
CSM-7 Case Industrial Temperature Range								
3.579545	17pF	XC730CT-ND	1.05	.88	.71	XC730TR-ND	526.50	ECS-35-17-5PDN
3.6864	20pF	XC731CT-ND	1.05	.88	.71	XC731TR-ND	526.50	ECS-36-20-5PDN
4.000	20pF	XC732CT-ND	1.05	.88	.71	XC732TR-ND	526.50	ECS-40-20-5PDN
6.000	32pF	XC733CT-ND	1.05	.88	.71	XC733TR-ND	526.50	ECS-60-32-5PDN
7.3728	20pF	XC734CT-ND	1.05	.88	.71	XC734TR-ND	526.50	ECS-73-20-5PDN
8.000	18pF	XC735CT-ND	1.05	.88	.71	XC735TR-ND	526.50	ECS-80-18-5PDN
12.000	20pF	XC736CT-ND	1.05	.88	.71	XC736TR-ND	526.50	ECS-120-20-5PDN
14.31818	20pF	XC737CT-ND	1.05	.88	.71	XC737TR-ND	526.50	ECS-143-20-5PDN
16.000	20pF	XC738CT-ND	1.05	.88	.71	XC738TR-ND	526.50	ECS-160-20-5PDN
18.4320	20pF	XC739CT-ND	1.05	.88	.71	XC739TR-ND	526.50	ECS-184-20-5PDN
19.6608	20pF	XC740CT-ND	1.05	.88	.71	XC740TR-ND	526.50	ECS-196-20-5PDN
20.000	20pF	XC741CT-ND	1.05	.88	.71	XC741TR-ND	526.50	ECS-200-20-5PDN
24.000	20pF	XC742CT-ND	1.05	.88	.71	XC742TR-ND	526.50	ECS-240-20-5PDN
CSM-7 Case for Melexis RF Transmitters								
7.1505	12pF	XC871CT-ND*††	1.95	1.76	1.47	XC871TR-ND*††	975.00	ECS-071.505-CD-0370
9.8438	12pF	XC872CT-ND*††	1.95	1.76	1.47	XC872TR-ND*††	975.00	ECS-098.438-CD-0371
13.0625	12pF	XC873CT-ND*††	1.95	1.76	1.47	XC873TR-ND*††	975.00	ECS-130.625-CD-0373
13.56	12pF	XC874CT-ND*††	1.95	1.76	1.47	XC874TR-ND*††	975.00	ECS-135.600-CD-0374
20.3563	12pF	XC875CT-ND††	1.95	1.76	1.47	XC875TR-ND††	975.00	ECS-203.563-CD-0375
22.6278	12pF	XC876CT-ND††	1.95	1.76	1.47	XC876TR-ND††	975.00	ECS-226.278-CD-0376
23.2643	12pF	XC877CT-ND††	1.95	1.76	1.47	XC877TR-ND††	975.00	ECS-232.643-CD-0377
23.5122	12pF	XC878CT-ND††	1.95	1.76	1.47	XC878TR-ND††	975.00	ECS-235.122-CD-0378
25.2235	12pF	XC879CT-ND††	1.95	1.76	1.47	XC879TR-ND††	975.00	ECS-252.235-CD-0379
25.4563	12pF	XC880CT-ND††	1.95	1.76	1.47	XC880TR-ND††	975.00	ECS-254.563-CD-0380
26.4513	12pF	XC881CT-ND††	1.95	1.76	1.47	XC881TR-ND††	975.00	ECS-264.513-CD-0381
26.5971	12pF	XC882CT-ND††	1.95	1.76	1.47	XC882TR-ND††	975.00	ECS-265.971-CD-0382
27.1344	12pF	XC883CT-ND*††	1.95	1.76	1.47	XC883TR-ND*††	975.00	ECS-271.344-CD-0383
27.4688	12pF	XC884CT-ND††	1.95	1.76	1.47	XC884TR-ND††	975.00	ECS-274.688-CD-0384
28.2594	12pF	XC885CT-ND††	1.95	1.76	1.47	XC885TR-ND††	975.00	ECS-282.594-CD-0385
28.5938	12pF	XC886CT-ND††	1.95	1.76	1.47	XC886TR-ND††	975.00	ECS-285.938-CD-0386

* Spur specification applies. †† ±20ppm @ +25°C and ±30ppm over operating temperature range ◊ 3rd overtone

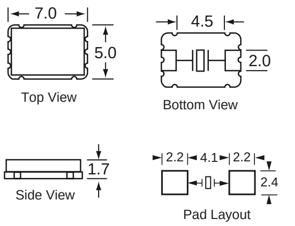
ECS INC. INTERNATIONAL SMT Quartz Crystals

CSM-12 Crystals



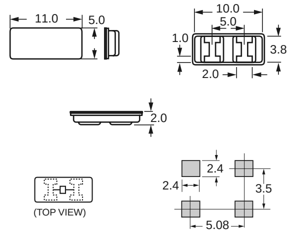
ELECTRICAL CHARACTERISTICS:
• **Frequency Tolerance:** ±30 ppm @ +25°C and ±50ppm over operating temperature range • **Shunt Capacitance:** 7.0pF • **Drive Level:** 100mW • **Operating Temp.:** -10°C to +70°C • **Storage Temp.:** -40°C to +85°C • **Aging Characteristics (first year):** ±5.0ppm @ 25°C • **Mode of Operation:** Fundamental

CSM-8 Crystals



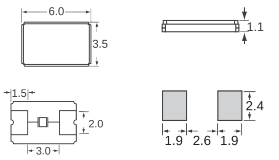
ELECTRICAL CHARACTERISTICS:
• **Frequency Tolerance:** ±30ppm @ +25°C and ±50ppm over operating temp. range • **Shunt Capacitance:** 5.0pF • **Drive Level:** 0.5mW • **Operating Temp.:** -10°C to +70°C • **Storage Temp.:** -40°C to +85°C • **Aging Characteristics (first year):** ±5.0ppm @ 25°C

ECX-19A Crystals



ELECTRICAL CHARACTERISTICS:
• **Frequency Tolerance:** ±30ppm @ +25°C and ±50ppm over operating temp. range • **Shunt Capacitance:** 7.0pF • **Drive Level:** 0.1mW • **Operating Temp.:** -10°C to +70°C • **Storage Temp.:** -30°C to +85°C • **Aging Characteristics (first year):** ±5.0ppm @ 25°C

ECX-64A Crystals

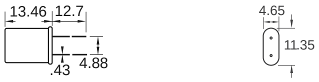


ELECTRICAL CHARACTERISTICS:
• **Frequency Tolerence:** ±30ppm @ +25°C and ±50ppm over operating temperature range • **Shunt Capacitance:** 7.0pF • **Drive Level:** 100µW • **Operating Temp.:** -40°C to +85°C • **Storage Temp.:** -40°C to +85°C • **Aging Characterics** +85°C (per year) ± 5.0ppm @ 25°C ± 3°C per year

Frequency (MHz)	Load Cap.	Max. ESR (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
CSM-12 Series Crystals										
3.579545	17pf	—	XC584CT-ND	1.95	1.76	1.47	1.17	XC584TR-ND	975.00	ECS-35-17-18-TR
3.6864	Series	200	XC585CT-ND	1.95	1.76	1.47	1.17	XC585TR-ND	975.00	ECS-36-S-18-TR
3.6864	20pf	—	XC586CT-ND	1.95	1.76	1.47	1.17	XC586TR-ND	975.00	ECS-36-20-18-TR
4.000	20pf	—	XC587CT-ND	1.95	1.76	1.47	1.17	XC587TR-ND	975.00	ECS-40-20-18-TR
4.000	Series	200	XC588CT-ND	1.95	1.76	1.47	1.17	XC588TR-ND	975.00	ECS-40-S-18-TR
4.9152	20pf	—	XC589CT-ND	1.95	1.76	1.47	1.17	XC589TR-ND	975.00	ECS-49-20-18-TR
4.9152	Series	150	XC590CT-ND	1.95	1.76	1.47	1.17	XC590TR-ND	975.00	ECS-49-S-18-TR
6.144	32pf	—	XC591CT-ND	1.95	1.76	1.47	1.17	XC591TR-ND	975.00	ECS-61-32-18-TR
7.3728	Series	100	XC592CT-ND	1.95	1.76	1.47	1.17	XC592TR-ND	975.00	ECS-73-S-18-TR
8.000	Series	100	XC593CT-ND	1.95	1.76	1.47	1.17	XC593TR-ND	975.00	ECS-80-S-18-TR
9.8304	Series	100	XC594CT-ND	1.95	1.76	1.47	1.17	XC594TR-ND	975.00	ECS-98.3-S-18-TR
9.8304	20pf	—	XC595CT-ND	1.95	1.76	1.47	1.17	XC595TR-ND	975.00	ECS-98.3-20-18-TR
10.000	Series	80	XC596CT-ND	1.95	1.76	1.47	1.17	XC596TR-ND	975.00	ECS-100-S-18-TR
11.0592	Series	80	XC597CT-ND	1.95	1.76	1.47	1.17	XC597TR-ND	975.00	ECS-110.5-S-18-TR
11.0592	20pf	—	XC598CT-ND	1.95	1.76	1.47	1.17	XC598TR-ND	975.00	ECS-110.5-20-18-TR
12.000	Series	80	XC599CT-ND	1.95	1.76	1.47	1.17	XC599TR-ND	975.00	ECS-120-S-18-TR
14.31818	Series	50	XC600CT-ND	1.95	1.76	1.47	1.17	XC600TR-ND	975.00	ECS-143-S-18-TR
14.31818	20pF	—	XC937CT-ND	1.95	1.76	1.47	1.17	XC937TR-ND	975.00	ECS-143-20-18-TR
16.000	Series	50	XC601CT-ND	1.95	1.76	1.47	1.17	XC601TR-ND	975.00	ECS-160-S-18-TR
18.432	Series	50	XC602CT-ND	1.95	1.76	1.47	1.17	XC602TR-ND	975.00	ECS-184-S-18-TR
19.6608	Series	50	XC603CT-ND	1.95	1.76	1.47	1.17	XC603TR-ND	975.00	ECS-196.6-S-18-TR
20.000	Series	50	XC604CT-ND	1.95	1.76	1.47	1.17	XC604TR-ND	975.00	ECS-200-S-18-TR
20.000	20pf	—	XC605CT-ND	1.95	1.76	1.47	1.17	XC605TR-ND	975.00	ECS-200-20-18-TR
24.000	20pf	—	XC606CT-ND	1.95	1.76	1.47	1.17	XC606TR-ND	975.00	ECS-240-20-18-TR
24.000	16pf	—	XC607CT-ND	1.95	1.76	1.47	1.17	XC607TR-ND	975.00	ECS-240-16-18-TR
CSM-8 Series Crystals										
9.8304	Series	60	XC608CT-ND	3.30	2.97	2.48	1.98	XC608TR-ND	1650.00	ECS-98.3-S-20A-TR
9.8304	20pf	—	XC609CT-ND	3.30	2.97	2.48	1.98	XC609TR-ND	1650.00	ECS-98.3-20-20A-TR
10.000	Series	60	XC610CT-ND	3.30	2.97	2.48	1.98	XC610TR-ND	1650.00	ECS-100-S-20A-TR
11.0592	Series	60	XC611CT-ND	3.30	2.97	2.48	1.98	XC611TR-ND	1650.00	ECS-110.5-S-20A-TR
11.0592	20pf	—	XC612CT-ND	3.30	2.97	2.48	1.98	XC612TR-ND	1650.00	ECS-110.5-20-20A-TR
12.000	Series	60	XC613CT-ND	3.30	2.97	2.48	1.98	XC613TR-ND	1650.00	ECS-120-S-20A-TR
14.31818	Series	60	XC614CT-ND	3.30	2.97	2.48	1.98	XC614TR-ND	1650.00	ECS-143-S-20A-TR
14.31818	20pF	—	XC938CT-ND	3.30	2.97	2.48	1.98	XC938TR-ND	1650.00	ECS-143-20-20A-TR
14.7456	Series	60	XC615CT-ND	3.30	2.97	2.48	1.98	XC615TR-ND	1650.00	ECS-147.4-S-20A-TR
16.000	Series	40	XC616CT-ND	3.30	2.97	2.48	1.98	XC616TR-ND	1650.00	ECS-160-S-20A-TR
16.000	20pF	—	XC939CT-ND	3.30	2.97	2.48	1.98	XC939TR-ND	1650.00	ECS-160-20-20A-TR
18.432	Series	40	XC617CT-ND	3.30	2.97	2.48	1.98	XC617TR-ND	1650.00	ECS-184-S-20A-TR
19.6608	Series	40	XC618CT-ND	3.30	2.97	2.48	1.98	XC618TR-ND	1650.00	ECS-196.6-S-20A-TR
20.000	Series	40	XC619CT-ND	3.30	2.97	2.48	1.98	XC619TR-ND	1650.00	ECS-200-S-20A-TR
20.000	20pf	—	XC620CT-ND	3.30	2.97	2.48	1.98	XC620TR-ND	1650.00	ECS-200-20-20A-TR
24.000	Series	40	XC621CT-ND	3.30	2.97	2.48	1.98	XC621TR-ND	1650.00	ECS-240-S-20A-TR
24.000	20pf	—	XC622CT-ND	3.30	2.97	2.48	1.98	XC622TR-ND	1650.00	ECS-240-20-20A-TR
24.00014	Series	40	XC623CT-ND	3.30	2.97	2.48	1.98	XC623TR-ND	1650.00	ECS-240.0014-S-20A-TR
30.000	Series	40	XC624CT-ND*	3.30	2.97	2.48	1.98	XC624TR-ND*	1650.00	ECS-300-S-20A-TR
30.000	Series	40	XC630CT-ND	3.30	2.97	2.48	1.98	XC630TR-ND	1650.00	ECS-300-S-20A-F-TR
32.000	Series	40	XC625CT-ND*	3.30	2.97	2.48	1.98	XC625TR-ND*	1650.00	ECS-320-S-20A-TR
32.000	Series	40	XC631CT-ND	3.30	2.97	2.48	1.98	XC631TR-ND	1650.00	ECS-320-S-20A-F-TR
33.000	Series	40	XC626CT-ND*	3.30	2.97	2.48	1.98	XC626TR-ND*	1650.00	ECS-330-S-20A-TR
35.2512	Series	40	XC632CT-ND	3.30	2.97	2.48	1.98	XC632TR-ND	1650.00	ECS-352.512-S-20A-F-TR
36.000	Series	40	XC627CT-ND*	3.30	2.97	2.48	1.98	XC627TR-ND*	1650.00	ECS-360-S-20A-TR
36.000	Series	40	XC633CT-ND	3.30	2.97	2.48	1.98	XC633TR-ND	1650.00	ECS-360-S-20A-F-TR
40.000	Series	40	XC628CT-ND*	3.30	2.97	2.48	1.98	XC628TR-ND*	1650.00	ECS-400-S-20A-TR
40.000	Series	40	XC634CT-ND	3.30	2.97	2.48	1.98	XC634TR-ND	1650.00	ECS-400-S-20A-F-TR
40.320	Series	40	XC629CT-ND*	3.30	2.97	2.48	1.98	XC629TR-ND*	1650.00	ECS-403.2-S-20A-TR
48.000	20pF	—	XC940CT-ND	3.30	2.97	2.48	1.98	XC940TR-ND	1650.00	ECS-480-20-20A-F-TR
ECX-19A Series Crystals										
3.579545	17pF	—	XC850CT-ND	3.30	2.97	2.48	1.98	XC850TR-ND	1650.00	ECS-35-17-19A
3.6864	20pF	—	XC851CT-ND	3.30	2.97	2.48	1.98	XC851TR-ND	1650.00	ECS-36-20-19A
4.000	20pF	—	XC852CT-ND	3.30	2.97	2.48	1.98	XC852TR-ND	1650.00	ECS-40-20-19A
4.9152	20pF	—	XC853CT-ND	3.30	2.97	2.48	1.98	XC853TR-ND	1650.00	ECS-49-20-19A
6.144	32pF	—	XC854CT-ND	3.30	2.97	2.48	1.98	XC854TR-ND	1650.00	ECS-61-32-19A
7.3728	20pF	—	XC855CT-ND	3.30	2.97	2.48	1.98	XC855TR-ND	1650.00	ECS-73-20-19A
8.000	20pF	—	XC856CT-ND	3.30	2.97	2.48	1.98	XC856TR-ND	1650.00	ECS-80-20-19A
9.8304	20pF	—	XC857CT-ND	3.30	2.97	2.48	1.98	XC857TR-ND	1650.00	ECS-98.3-20-19A
10.000	Series	—	XC858CT-ND	3.30	2.97	2.48	1.98	XC858TR-ND	1650.00	ECS-100-S-19A
11.0592	20pF	—	XC859CT-ND	3.30	2.97	2.48	1.98	XC859TR-ND	1650.00	ECS-110.5-20-19A
12.000	Series	—	XC860CT-ND	3.30	2.97	2.48	1.98	XC860TR-ND	1650.00	ECS-120-S-19A
12.000	20pF	—	XC861CT-ND	3.30	2.97	2.48	1.98	XC861TR-ND	1650.00	ECS-120-20-19A
14.31818	Series	—	XC862CT-ND	3.30	2.97	2.48	1.98	XC862TR-ND	1650.00	ECS-143-S-19A
14.31818	20pF	—	XC863CT-ND	3.30	2.97	2.48	1.98	XC863TR-ND	1650.00	ECS-143-20-19A
16.000	Series	—	XC864CT-ND	3.30	2.97	2.48	1.98	XC864TR-ND	1650.00	ECS-160-S-19A
18.432	Series	—	XC865CT-ND	3.30	2.97	2.48	1.98	XC865TR-ND	1650.00	ECS-184-S-19A
19.6608	Series	—	XC866CT-ND	3.30	2.97	2.48	1.98	XC866TR-ND	1650.00	ECS-196.6-S-19A
20.000	Series	—	XC867CT-ND	3.30	2.97	2.48	1.98	XC867TR-ND	1650.00	ECS-200-S-19A
20.000	20pF	—	XC868CT-ND	3.30	2.97	2.48	1.98	XC868TR-ND	1650.00	ECS-200-20-19A
24.000	20pF	—	XC869CT-ND	3.30	2.97	2.48	1.98	XC869TR-ND	1650.00	ECS-240-20-19A
24.000	Series	—	XC870CT-ND	3.30	2.97	2.48	1.98	XC870TR-ND	1650.00	ECS-240-S-19A
ECX-64A Extended Temperature Range										
14.31818	20pF	80	XC979CT-ND	2.94	2.65	2.21	1.77	XC979TR-ND	1470.00	ECS-143-20-23A-EN-TR
14.31818	Series	80	XC980CT-ND	2.94	2.65	2.21	1.77	XC980TR-ND	1470.00	ECS-143-S-23A-EN-TR
14.7456	20pF	80	XC981CT-ND	2.94	2.65	2.21	1.77	XC981TR-ND	1470.00	ECS-147-20-23A-EN-TR
16.000	20pF	60	XC982CT-ND	2.94	2.65	2.21	1.77	XC982TR-ND	1470.00	ECS-160-20-23A-EN-TR
16.000	Series	60	XC983CT-ND	2.94	2.65	2.21	1.77	XC983TR-ND	1470.00	ECS-160-S-23A-EN-TR
18.432	20pF	60	XC984CT-ND	2.94	2.65	2.21	1.77	XC984TR-ND	1470.00	ECS-184-20-23A-EN-TR
18.432	Series	60	XC985CT-ND	2.94	2.65	2.21	1.77	XC985TR-ND	1470.00	ECS-184-S-23A-EN-TR
19.6608	20pF	60	XC986CT-ND	2.94	2.65	2.21	1.77	XC986TR-ND	1470.00	ECS-196-20-23A-EN-TR
19.6608	Series	60	XC987CT-ND	2.94	2.65	2.21	1.77	XC987TR-ND	1470.00	ECS-196-S-23A-EN-TR
20.000	20pF	40	XC988CT-ND	2.94	2.65	2.21	1.77	XC988TR-ND	1470.00	ECS-200-20-23A-EN-TR
20.000	Series	40	XC989CT-ND	2.94	2.65	2.21	1.77	XC989TR-ND	1470.00	ECS-200-S-23A-EN-TR
24.000	20pF	40	XC990CT-ND	2.94	2.65	2.21	1.77	XC990TR-ND	1470.00	ECS-240-20-23A-EN-TR
24.000	Series	40	XC991CT-ND	2.94	2.65	2.21	1.77	XC991TR-ND	1470.00	ECS-240-S-23A-EN-TR

* 3rd Overtone

ECS INC. INTERNATIONAL Quartz Crystals



9256B-ND	ECS Crystal/Oscillator Databook	**$2.95**

Electrical Characteristics: • **Frequency Tolerance:** ±30ppm @ +25°C and ±50ppm over operating temperature range • **Shunt Capacitance:** 7.0pF • **Drive Level:** 1.0mW • **Operating Temp.:** -10°C to +70°C • **Storage Temperature:** -40°C to +85°C • **Aging Characteristics (first year):** ±5.0ppm @ +25°C

Series resonance appears resistive in the circuit and impedance at fs is at its minimum value. Unless load capacitance is specified, all crystals are manufactured at series resonance. When a crystal is operating at parallel resonance (fL) it will look inductive in a circuit. Crystal frequency varies depending on the value of load capacitance. The load capacitance is the dynamic capacitance of the total circuit as measured or computed across the crystal terminals. Always specify the load capacitance if the crystal will be operated in the parallel mode.

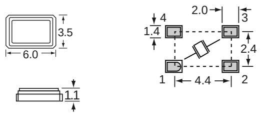
Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each				ECS Part No.
			1	10	100	500	
HC-49/UA							
1.000	13pF	X066B-ND*	17.88	14.85	8.09	7.54	ECS-10-13-1H
1.8432	13pF	X067-ND	1.95	1.62	1.29	1.00	ECS-18-13-1
1.8432	Series	X002-ND	1.95	1.62	1.29	1.00	ECS-18-S-1
2.000	20pF	X068-ND	1.95	1.62	1.29	1.00	ECS-20-20-1
2.000	Series	X004-ND	1.95	1.62	1.29	1.00	ECS-20-S-1
2.048	12pF	X098-ND	1.95	1.62	1.29	1.00	ECS-20.48-12-1
2.4576	32pF	X069-ND	1.63	1.35	1.08	.83	ECS-24-32-1
2.500	Series	X070-ND	1.63	1.35	1.08	.83	ECS-25-S-1
3.000	Series	X009-ND	1.63	1.35	1.08	.83	ECS-30-S-1
3.2768	17pF	X022-ND	.65	.54	.43	.34	ECS-32-17-1
3.579545	17pF	X049-ND	.40	.36	.32	.29	ECS-35-17-1
3.579545	Series	X011-ND	.40	.36	.32	.29	ECS-35-S-1
3.6864	18pF	X071-ND	.40	.36	.32	.29	ECS-36-18-1
3.6864	Series	X080-ND	.40	.36	.32	.29	ECS-36-S-1
3.932160	17pF	X013-ND	.40	.36	.32	.29	ECS-39-17-1
4.000	20pF	X006-ND	.40	.36	.32	.29	ECS-40-20-1
4.000	Series	X081-ND	.40	.36	.32	.29	ECS-40-S-1
4.032	20pF	X072-ND	.40	.36	.32	.29	ECS-40.3-20-1
4.032	Series	X015-ND	.40	.36	.32	.29	ECS-40.3-S-1
4.096	20pF	X082-ND	.40	.36	.32	.29	ECS-41-20-1
4.194304	12pF	X007-ND	.40	.36	.32	.29	ECS-42-12-1
4.433618	20pF	X083-ND	.40	.36	.32	.29	ECS-44-20-1
4.9152	Series	X050-ND	.40	.36	.32	.29	ECS-49-S-1
4.9152	20pF	X084-ND	.40	.36	.32	.29	ECS-49-20-1
5.000	Series	X099-ND	.40	.36	.32	.29	ECS-50-S-1
5.000	20pF	X051-ND	.40	.36	.32	.29	ECS-50-20-1
5.0688	Series	X052-ND	.40	.36	.32	.29	ECS-51-S-1
5.0688	20pF	X085-ND	.40	.36	.32	.29	ECS-51-20-1
5.185	Series	X053-ND	.40	.36	.32	.29	ECS-52-S-1
5.185	32pF	X016-ND	.40	.36	.32	.29	ECS-52-32-1
5.9904	Series	X073-ND	.40	.36	.32	.29	ECS-59-S-1
5.9904	20pF	X017-ND	.40	.36	.32	.29	ECS-59.9-20-1
6.000	Series	X026-ND	.40	.36	.32	.29	ECS-60-S-1
6.000	32pF	X086-ND	.40	.36	.32	.29	ECS-60-32-1
6.144	32pF	X054-ND	.40	.36	.32	.29	ECS-61-32-1
6.5536	12pF	X018-ND	.40	.36	.32	.29	ECS-65-12-1
7.3728	Series	X074-ND	.40	.36	.32	.29	ECS-73-S-1
7.3728	20pF	X019-ND	.40	.36	.32	.29	ECS-73-20-1
7.680	20pF	X020-ND	.40	.36	.32	.29	ECS-76.8-20-1
8.000	Series	X056-ND	.40	.36	.32	.29	ECS-80-S-1
8.000	18pF	X100-ND	.40	.36	.32	.29	ECS-80-18-1
8.000	20pF	X021-ND	.40	.36	.32	.29	ECS-80-20-1
8.000	32pF	X137-ND	.40	.36	.32	.29	ECS-80-32-1
9.216	Series	X075-ND	.40	.36	.32	.29	ECS-92.1-S-1
9.216	20pF	X138-ND	.40	.36	.32	.29	ECS-92.1-20-1
9.8304	20pF	X087-ND	.40	.36	.32	.29	ECS-98.3-20-1
9.8304	Series	X023-ND	.40	.36	.32	.29	ECS-98.3-S-1
10.000	Series	X057-ND	.40	.36	.32	.29	ECS-100-S-1
10.738635	Series	X024-ND	.40	.36	.32	.29	ECS-107.3-S-1
11.000	Series	X088-ND	.40	.36	.32	.29	ECS-110-S-1
11.046	Series	X025-ND	.40	.36	.32	.29	ECS-110.4-S-1
11.0592	Series	X078-ND	.40	.36	.32	.29	ECS-110.5-S-1
11.0592	20pF	X089-ND	.40	.36	.32	.29	ECS-110.5-20-1
11.0592	32pF	X139-ND	.40	.36	.32	.29	ECS-110.5-32-1
11.228	Series	X028-ND	.40	.36	.32	.29	ECS-112.2-S-1
11.52	Series	X140-ND	.40	.36	.32	.29	ECS-115.2-S-1
11.98135	Series	X029-ND	.40	.36	.32	.29	ECS-119.8-S-1
12.000	Series	X058-ND	.40	.36	.32	.29	ECS-120-S-1
12.000	32pF	X030-ND	.40	.36	.32	.29	ECS-120-32-1
12.000393	18pF	X147-ND	.40	.36	.32	.29	ECS-120.003-18-1
12.096	Series	X031-ND	.40	.36	.32	.29	ECS-121-S-1
12.288	Series	X090-ND	.40	.36	.32	.29	ECS-122.8-S-1
12.288	20pF	X141-ND	.40	.36	.32	.29	ECS-122.8-20-1
13.5168	Series	X032-ND	.40	.36	.32	.29	ECS-135-S-1
14.31818	Series	X091-ND	.40	.36	.32	.29	ECS-143-S-1
14.690	Series	X033-ND	.40	.36	.32	.29	ECS-146-S-1
14.7456	Series	X092-ND	.40	.36	.32	.29	ECS-147.4-S-1
14.7456	20pF	X142-ND	.40	.36	.32	.29	ECS-147.4-20-1
15.000	Series	X059-ND	.40	.36	.32	.29	ECS-150-S-1
16.000	Series	X077-ND	.40	.36	.32	.29	ECS-160-S-1
16.000	20pF	X143-ND	.40	.36	.32	.29	ECS-160-20-1
16.000312	18pF	X148-ND	.40	.36	.32	.29	ECS-160.003-18-1
18.000	Series	X060-ND	.40	.36	.32	.29	ECS-180-S-1
18.000	20pF	X144-ND	.40	.36	.32	.29	ECS-180-20-1
18.432	Series	X061-ND	.40	.36	.32	.29	ECS-184-S-1
18.432	18pF	X145-ND	.40	.36	.32	.29	ECS-184-18-1
18.432	20pF	X146-ND	.40	.36	.32	.29	ECS-184-20-1
19.6608	Series	X094-ND	.40	.36	.32	.29	ECS-196.6-S-1
19.6608	20pF	X035-ND	.40	.36	.32	.29	ECS-196.6-20-1
20.000	Series	X062-ND	.40	.36	.32	.29	ECS-200-S-1
20.000	20pF	X036-ND	.40	.36	.32	.29	ECS-200-20-1
22.1184	Series	X063-ND	.40	.36	.32	.29	ECS-221-S-1
24.000	20pF	X037-ND	.40	.36	.32	.29	ECS-240-20-1
24.000	Series	X095-ND	.40	.36	.32	.29	ECS-240-S-1F
24.00014	18pF	X149-ND	.40	.36	.32	.29	ECS-240.001-18-1
35.2512	18pF	X151-ND†	.50	.45	.36	.32	ECS-352.5-18-1
38.000530	18pF	X150-ND†	.50	.45	.36	.32	ECS-380.005-18-1
40.32	18pF	X152-ND†	.50	.45	.36	.32	ECS-403.2-18-1
48.000	Series	X065-ND†	.40	.36	.32	.29	ECS-480-S-1
48.000	20pF	XC943-ND†	.50	.45	.36	.32	ECS-480-20-1
49.860	20pF	X038-ND†	.40	.36	.32	.29	ECS-498.6-20-1
Base Insulator	—	HC49INS-ND	—	.09	.08	.06	700-9001

* 1.0 Frequency (#*X066B-ND*): 100ppm @ +25°C; ±100ppm from 0°C to +60°C. †3rd Overtone

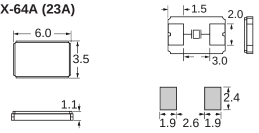
SMT Low Profile Quartz Crystals

ECX-64 1.1mm

ECX-64B (23B)



ECX-64A (23A)



ELECTRICAL CHARACTERISTICS:

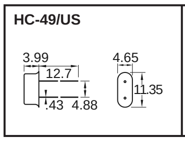
• **Freq. Tolerance:** ±30ppm @ +25°C and ±50ppm over operating temp. range • **Shunt Capacitance:** 7.0pF • **Drive Level:** 0.1mW • **Operating Temp.:** -10°C to +70°C • **Storage Temp.:** -40°C to +85°C • **Aging Characteristics (first year):** ±2.0 ppm @ 25°C • **Max. ESR:** 40Ω • **Mode of Operation:** Fundamental

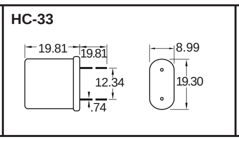
Freq. (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T&R Pricing	ECS Part No.
			1	10	100		1,000	
ECX-64B								
14.31818	20pF	XC809CT-ND	3.75	3.38	2.82	XC809TR-ND	1875.00	ECS-143-20-23B-TR
14.31818	Series	XC810CT-ND	3.75	3.38	2.82	XC810TR-ND	1875.00	ECS-143-S-23B-TR
14.7456	20pF	XC811CT-ND	3.75	3.38	2.82	XC811TR-ND	1875.00	ECS-147-20-23B-TR
16.000	20pF	XC812CT-ND	3.75	3.38	2.82	XC812TR-ND	1875.00	ECS-160-20-23B-TR
16.000	Series	XC813CT-ND	3.75	3.38	2.82	XC813TR-ND	1875.00	ECS-160-S-23B-TR
18.432	20pF	XC814CT-ND	3.75	3.38	2.82	XC814TR-ND	1875.00	ECS-184-20-23B-TR
18.432	Series	XC815CT-ND	3.75	3.38	2.82	XC815TR-ND	1875.00	ECS-184-S-23B-TR
19.6608	20pF	XC816CT-ND	3.75	3.38	2.82	XC816TR-ND	1875.00	ECS-196-20-23B-TR
19.6608	Series	XC817CT-ND	3.75	3.38	2.82	XC817TR-ND	1875.00	ECS-196-S-23B-TR
20.000	20pF	XC818CT-ND	3.75	3.38	2.82	XC818TR-ND	1875.00	ECS-200-20-23B-TR
20.000	Series	XC819CT-ND	3.75	3.38	2.82	XC819TR-ND	1875.00	ECS-200-S-23B-TR
24.000	Series	XC820CT-ND	3.75	3.38	2.82	XC820TR-ND	1875.00	ECS-240-S-23B-TR
ECX-64A								
14.31818	20pF	XC821CT-ND	3.30	2.97	2.48	XC821TR-ND	1650.00	ECS-143-20-23A-TR
14.31818	Series	XC822CT-ND	3.30	2.97	2.48	XC822TR-ND	1650.00	ECS-143-S-23A-TR
14.7456	20pF	XC823CT-ND	3.30	2.97	2.48	XC823TR-ND	1650.00	ECS-147-20-23A-TR
16.000	20pF	XC824CT-ND	3.30	2.97	2.48	XC824TR-ND	1650.00	ECS-160-20-23A-TR
16.000	Series	XC825CT-ND	3.30	2.97	2.48	XC825TR-ND	1650.00	ECS-160-S-23A-TR
18.432	20pF	XC826CT-ND	3.30	2.97	2.48	XC826TR-ND	1650.00	ECS-184-20-23A-TR
18.432	Series	XC827CT-ND	3.30	2.97	2.48	XC827TR-ND	1650.00	ECS-184-S-23A-TR
19.6608	20pF	XC828CT-ND	3.30	2.97	2.48	XC828TR-ND	1650.00	ECS-196-20-23A-TR
19.6608	Series	XC829CT-ND	3.30	2.97	2.48	XC829TR-ND	1650.00	ECS-196-S-23A-TR
20.000	20pF	XC830CT-ND	3.30	2.97	2.48	XC830TR-ND	1650.00	ECS-200-20-23A-TR
20.000	Series	XC831CT-ND	3.30	2.97	2.48	XC831TR-ND	1650.00	ECS-200-S-23A-TR
24.000	Series	XC832CT-ND	3.30	2.97	2.48	XC832TR-ND	1650.00	ECS-240-S-23A-TR

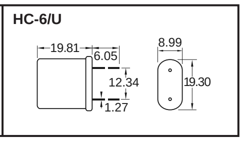
ECS INC. INTERNATIONAL

Quartz Crystals

ELECTRICAL CHARACTERISTICS: • **Frequency Tolerance:** ±30ppm @ +25°C and ±50ppm over operating temp. range • **Frequency Stability (Extended Temp. Version):** ±100ppm from -40°C to +85°C • **Shunt Capacitance:** 7.0pF • **Drive Level:** 0.5mW • **Operating Temp.:** -10°C to +70°C (Extended Temperature Version: -40°C to +85°C) • **Storage Temp.:** -40°C to +85°C (Extended Temperature Version: -55°C to +125°C) • **Aging Characteristics (first year):** ±5.0ppm @ +25°C • **Mode of Operation:** Fundamental except where noted with * to indicate 3rd overtone



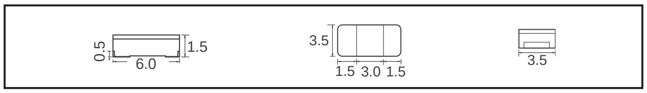




Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
		HC-49/US					
3.579545	17pF	X079-ND	.58	.52	.42	.37	ECS-35-17-4
3.579545	Series	X153-ND	.58	.52	.42	.37	ECS-35-S-4
3.6864	18pF	X402-ND	.58	.52	.42	.37	ECS-36-18-4
3.6864	Series	X403-ND	.58	.52	.42	.37	ECS-36-S-4
4.000	Series	X404-ND	.58	.52	.42	.37	ECS-40-S-4
4.000	20pF	X405-ND	.58	.52	.42	.37	ECS-40-20-4
4.032	20pF	X154-ND	.58	.52	.42	.37	ECS-40.3-20-4
4.032	Series	X155-ND	.58	.52	.42	.37	ECS-40.3-S-4
4.096	20pF	X156-ND	.58	.52	.42	.37	ECS-41-20-4
4.194304	12pF	X406-ND	.58	.52	.42	.37	ECS-42-12-4
4.194304	16pF	X157-ND	.58	.52	.42	.37	ECS-42-16-4
4.433618	20pF	X407-ND	.58	.52	.42	.37	ECS-44-20-4
4.9152	Series	X408-ND	.58	.52	.42	.37	ECS-49-S-4
4.9152	20pF	X409-ND	.58	.52	.42	.37	ECS-49-20-4
5.000	20pF	X410-ND	.58	.52	.42	.37	ECS-50-20-4
5.000	Series	X158-ND	.58	.52	.42	.37	ECS-50-S-4
5.0688	20pF	X411-ND	.58	.52	.42	.37	ECS-51-20-4
5.0688	Series	X159-ND	.58	.52	.42	.37	ECS-51-S-4
5.185	32pF	X064-ND	.75	.63	.50	.39	ECS-52-32-4
5.185	Series	X160-ND	.58	.52	.42	.37	ECS-52-S-4
5.9904	Series	X161-ND	.58	.52	.42	.37	ECS-59-S-4
5.9904	20pF	X162-ND	.58	.52	.42	.37	ECS-59.9-20-4
6.000	Series	X412-ND	.58	.52	.42	.37	ECS-60-S-4
6.000	32pF	X413-ND	.58	.52	.42	.37	ECS-60-32-4
6.144	32pF	X414-ND	.58	.52	.42	.37	ECS-61-32-4
6.500	20pF	X415-ND	.58	.52	.42	.37	ECS-65-20-4
7.3728	20pF	X076-ND	.75	.63	.50	.39	ECS-73-20-4
7.3728	Series	X416-ND	.58	.52	.42	.37	ECS-73-S-4
7.68	20pF	X163-ND	.58	.52	.42	.37	ECS-76.8-20-4
8.000	18pF	X164-ND	.58	.52	.42	.37	ECS-80-18-4
8.000	20pF	X165-ND	.58	.52	.42	.37	ECS-80-20-4
8.000	32pF	X166-ND	.58	.52	.42	.37	ECS-80-32-4
8.000	Series	X417-ND	.58	.52	.42	.37	ECS-80-S-4
8.500	Series	X418-ND	.58	.52	.42	.37	ECS-85-S-4
9.000	Series	X419-ND	.58	.52	.42	.37	ECS-90-S-4
9.216	Series	X167-ND	.58	.52	.42	.37	ECS-92.1-S-4
9.216	20pF	X168-ND	.58	.52	.42	.37	ECS-92.1-20-4
9.545	Series	X420-ND	.58	.52	.42	.37	ECS-95.4-S-4
9.8304	20pF	X169-ND	.58	.52	.42	.37	ECS-98.3-20-4
9.8304	Series	X421-ND	.58	.52	.42	.37	ECS-98.3-S-4
10.000	Series	X422-ND	.58	.52	.42	.37	ECS-100-S-4
10.000	18pF	X443-ND	.58	.52	.42	.37	ECS-100-18-4
10.738635	Series	X423-ND	.58	.52	.42	.37	ECS-107.3-S-4
11.000	Series	X424-ND	.58	.52	.42	.37	ECS-110-S-4
11.0592	Series	X425-ND	.58	.52	.42	.37	ECS-110.5-S-4
11.0592	20pF	X426-ND	.58	.52	.42	.37	ECS-110.5-20-4
11.0592	32pF	X170-ND	.58	.52	.42	.37	ECS-110.5-32-4
11.520	Series	X171-ND	.58	.52	.42	.37	ECS-115.2-S-4
11.98135	Series	X427-ND	.58	.52	.42	.37	ECS-119.8-S-4
12.000	20pF	X227-ND	.58	.52	.42	.37	ECS-120-20-4
12.000	32pF	X172-ND	.58	.52	.42	.37	ECS-120-32-4
12.000	Series	X428-ND	.58	.52	.42	.37	ECS-120-S-4
12.000393	18pF	X173-ND	.58	.52	.42	.37	ECS-120.003-18-4
12.096	Series	X429-ND	.58	.52	.42	.37	ECS-121-S-4
12.288	20pF	X228-ND	.58	.52	.42	.37	ECS-122.8-20-4
12.288	Series	X174-ND	.58	.52	.42	.37	ECS-122.8-S-4
12.960	18pF	X097-ND	.75	.63	.50	.39	ECS-129.6-18-4
14.31818	Series	X430-ND	.58	.52	.42	.37	ECS-143-S-4
14.31818	20pF	X444-ND	.58	.52	.42	.37	ECS-143-20-4
14.7456	Series	X431-ND	.58	.52	.42	.37	ECS-147.4-S-4
14.7456	20pF	X175-ND	.58	.52	.42	.37	ECS-147.4-20-4
15.000	Series	X432-ND	.58	.52	.42	.37	ECS-150-S-4
15.360	20pF	X096-ND	.75	.63	.50	.39	ECS-153-20-4
16.000	Series	X433-ND	.58	.52	.42	.37	ECS-160-S-4
16.000	20pF	X176-ND	.58	.52	.42	.37	ECS-160-20-4
16.000312	18pF	X177-ND	.58	.52	.42	.37	ECS-160.003-18-4
16.257	20pF	X039-ND	.75	.63	.50	.39	ECS-162.5-20-4
16.257	Series	X434-ND	.58	.52	.42	.37	ECS-162.5-S-4
18.000	Series	X435-ND	.58	.52	.42	.37	ECS-180-S-4
18.000	20pF	X178-ND	.58	.52	.42	.37	ECS-180-20-4
18.432	Series	X436-ND	.58	.52	.42	.37	ECS-184-S-4
18.432	18pF	X179-ND	.58	.52	.42	.37	ECS-184-18-4
18.432	20pF	X180-ND	.58	.52	.42	.37	ECS-184-20-4
19.6608	Series	X437-ND	.58	.52	.42	.37	ECS-196.6-S-4
19.6608	20pF	X181-ND	.58	.52	.42	.37	ECS-196.6-20-4
20.000	Series	X438-ND	.58	.52	.42	.37	ECS-200-S-4
20.000	20pF	X439-ND	.58	.52	.42	.37	ECS-200-20-4
21.47727	Series	X044-ND	.75	.63	.50	.39	ECS-214.7-S-4
22.1184	Series	X182-ND	.58	.52	.42	.37	ECS-221-S-4
24.000	Series	X440-ND	.58	.52	.42	.37	ECS-240-S-4
24.000	16pF	X441-ND	.58	.52	.42	.37	ECS-240-16-4
24.000	20pF	X442-ND	.58	.52	.42	.37	ECS-240-20-4
24.00014	18pF	X183-ND	.58	.52	.42	.37	ECS-240.001-18-4
20.480	20pF	X229-ND	.58	.52	.42	.37	ECS-204.8-20-4
24.576	20pF	X230-ND	.58	.52	.42	.37	ECS-245.7-20-4
25.000	18pF	X231-ND	.58	.52	.42	.37	ECS-250-18-4F
48.000	20pF	XC942-ND*	.58	.52	.42	.37	ECS-480-20-4
		HC-49/US Industrial Temperature Range					
3.579545	17pF	X184-ND	.80	.72	.58	.52	ECS-35-17-4DN
3.6864	20pF	X185-ND	.80	.72	.58	.52	ECS-36-20-4DN
4.000	20pF	X186-ND	.80	.72	.58	.52	ECS-40-20-4DN
6.000	32pF	X187-ND	.80	.72	.58	.52	ECS-60-32-4DN
7.3728	20pF	X188-ND	.80	.72	.58	.52	ECS-73-20-4DN
8.000	18pF	X189-ND	.80	.72	.58	.52	ECS-80-18-4DN
12.000	20pF	X190-ND	.80	.72	.58	.52	ECS-120-20-4DN
14.31818	20pF	X191-ND	.80	.72	.58	.52	ECS-143-20-4DN
16.000	20pF	X192-ND	.80	.72	.58	.52	ECS-160-20-4DN
18.4320	20pF	X193-ND	.80	.72	.58	.52	ECS-184-20-4DN
19.6608	20pF	X194-ND	.80	.72	.58	.52	ECS-196-20-4DN
20.000	20pF	X195-ND	.80	.72	.58	.52	ECS-200-20-4DN
24.000	20pF	X196-ND	.80	.72	.58	.52	ECS-240-20-4DN
		HC-33					
2.4576	Series	X043-ND	6.34	5.27	4.20	3.24	ECS-24-S-2
2.94912	32pF	X014-ND	1.37	1.14	.91	.70	ECS-29.4-32-2P
		HC-6/U					
3.640	32pF	X008-ND	1.24	1.03	.82	.64	ECS-36.4-32-2P
3.700	32pF	X012-ND	1.24	1.03	.82	.64	ECS-37-32-2P
Base Insulator		HC49INS-ND	—	.09	.08	.06	700-9001

SMT Ultra-Low Profile Quartz Crystals

ELECTRICAL CHARACTERISTICS: • **Mode:** Fundamental • **Drive Level:** 10 µW • **Frequency Tolerance:** ±50 ppm@25°C and over operating temp. range • **Frequency Stability:** ±50 ppm • **Operating Temp. Range:** -10°C to +70°C

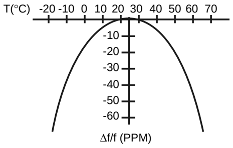


Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	ECS Part No.
15.000	Series	XC801CT-ND	3.91	3.56	3.16	ECS-150-S-15
18.000	Series	XC804CT-ND	3.91	3.56	3.16	ECS-180-S-15
24.000	Series	XC808CT-ND	3.91	3.56	3.16	ECS-240-S-15

Quartz Crystals – 32.768KHz and 1.000MHz

Parabolic Temperature Curve

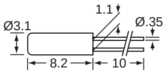
To determine frequency stability, use parabolic curvature. For example: What is the stability at 45°C?
(1) Change in T (°C) = 45 - 25 = 20°C
(2) Change in frequency
= 0.04 PPM x (ΔT)^2
= 0.04 PPM x (20)^2
= -16.0 PPM



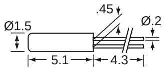
Cylinder Type

	X801-ND	X802-ND	X803-ND
Frequency	32.768KHz	32.768KHz	32.768KHz
Frequency Tolerance @ 25°C	±20ppm	±20ppm	±20ppm
Load Capacitance	12.5pf	12.5pf	8.0pf
Equivalent Series Resistance	35K Ohm	35K Ohm	40K Ohm
Shunt Capacitance	1.6pF Typ.	1.35pF Typ.	1.00pF Typ.
Operating Temperature Range	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Storage Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C

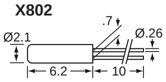
X801



X803



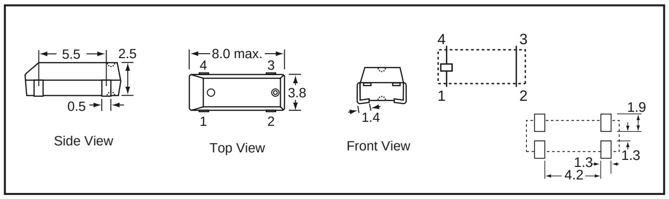
X802



Drive Level	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1µW	X801-ND	.30	.27	.22	.20	ECS-3X8
1µW	X802-ND	.30	.27	.22	.20	ECS-.327-12.5-13
1µW	X803-ND	2.63	2.37	1.89	1.68	ECS-.327-8-14

ECX-306 Series — SMT

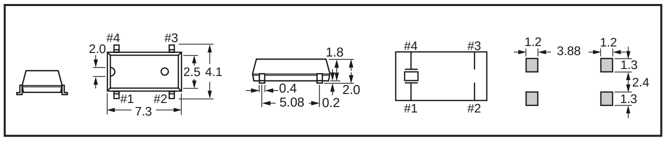
Specifications:
• **Frequency:** 32.768KHz • **Frequency Tolerance @ 25°C:** ±20ppm • **Equivalent Series Resistance:** 50KΩ max. • **Shunt Capacitance:** 1.3pF typ. • **Drive Level:** 1µW max. • **Calibration Tolerance:** ±20 ppm @ 25°C • **Temperature Coefficient:** -0.040 ppm/°C^2 max. • **Operating Temperature Range:** -40°C to +85°C Max. • **Storage Temperature Range:** -55°C to +125°C • **Q Factor:** 50,000 min. • **Turnover Temperature:** +25°C (±5°C) • **Insulation Resistance:** 500MΩ min./DC 100V • **Motional Capacitance:** 0.003pF typ. • **Aging (first year):** ±3 ppm max. @ +25°C



Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No	Tape & Reel Size	Pricing
6pF	XC746CT-ND	1.08	.90	.72	XC746TR-ND	3,000	560.00/M
12.5pF	XC488CT-ND	1.08	.90	.72	XC488TR-ND	3,000	560.00/M

ECX-3TA Series — SMT

Specifications:
• **Frequency:** 32.768KHz • **Freq. Tolerance @ 25°C:** ±20ppm • **Equivalent Series Resistance:** 50KΩ max.
• **Shunt Capacitance:** 2.0pF typ. • **Operating Temperature Range:** -40°C to +85°C • **Storage Temp. Range:** -55°C to +125°C

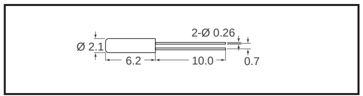


Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No	Tape & Reel Pricing 3,000
12.5pF	X488CT-ND	1.62	1.35	1.08	X488TR-ND	840.00/M

ECS-31 Series

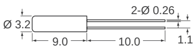
Freq. (KHz)	Load Cap. (pF)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
32.000	12.5	XC972-ND	.83	.75	.60	.53	ECS-.320-12.5-13
40.000		XC973-ND	.83	.75	.60	.53	ECS-.400-12.5-13
60.000		XC974-ND	.83	.75	.60	.53	ECS-.600-12.5-13
65.536		XC975-ND	.83	.75	.60	.53	ECS-.655-12.5-13
75.000		XC976-ND	.83	.75	.60	.53	ECS-.750-12.5-13
100.00	12.5	XC977-ND	.83	.75	.60	.53	ECS-1.00-12.5-13
125.00		XC999-ND	.83	.75	.60	.53	ECS-1.25-12.5-13
153.60		XC978-ND	.83	.75	.60	.53	ECS-1.536-12.5-13

Specifications: • **Frequency Tolerance:** ±30ppm @+25°C **Temp. Coefficient:** -0.034 ppm/°C • **Operating Temp. Range:** -10°C to +60°C • **Storage Temperature. Range:** -40°C to +85°C • **Equivalent Series Resistance:** 30KΩ to 50KΩ Max. • **Shunt Capaccitance:** 0.8 to 1.7pF typ. • **Drive Level:** 1µW max. • **Insulation Resistance:** 500MΩ min./DC 100V ± 15V • **Aging (first year):** ±5 ppm max. @25°C ±3°C

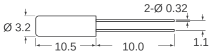


ECS-3X10 and ECS-3X9

Freq. (MHz)	Load Cap. (pF)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
ECS-3X10							
3.579545	18	XC944-ND	.73	.66	.53	.47	ECS-35-18-10
3.6864		XC945-ND	.73	.66	.53	.47	ECS-36-18-10
4.0000		XC946-ND	.73	.66	.53	.47	ECS-40-18-10
4.9152		XC947-ND	.73	.66	.53	.47	ECS-49-18-10
6.0000		XC948-ND	.73	.66	.53	.47	ECS-60-18-10
7.37281	18	XC949-ND	.73	.66	.53	.47	ECS-73-18-10
8.0000		XC950-ND	.73	.66	.53	.47	ECS-80-18-10
ECS-3X9							
8.192	18	XC951-ND	.73	.66	.53	.47	ECS-81.92-18-9
9.8304		XC952-ND	.73	.66	.53	.47	ECS-98.3-18-9
10.000		XC953-ND	.73	.66	.53	.47	ECS-100-18-9
11.0592		XC954-ND	.73	.66	.53	.47	ECS-110.5-18-9
12.000		XC955-ND	.73	.66	.53	.47	ECS-120-18-9
14.31818	18	XC956-ND	.73	.66	.53	.47	ECS-143-18-9
14.7456		XC957-ND	.73	.66	.53	.47	ECS-147.4-18-9
16.000		XC958-ND	.73	.66	.53	.47	ECS-160-18-9
18.432		XC959-ND	.73	.66	.53	.47	ECS-184-18-9
19.6608		XC960-ND	.73	.66	.53	.47	ECS-196.6-18-9
20.000	18	XC961-ND	.73	.66	.53	.47	ECS-200-18-9
24.000		XC962-ND	.73	.66	.53	.47	ECS-240-18-9
24.576		XC963-ND	.73	.66	.53	.47	ECS-245.7-18-9
25.000		XC964-ND	.73	.66	.53	.47	ECS-250-18-9
27.000		XC965-ND	.73	.66	.53	.47	ECS-270-18-9
32.000	18	XC966-ND	.73	.66	.53	.47	ECS-320-18-9-F
32.768		XC967-ND	.73	.66	.53	.47	ECS-327-18-9-F
40.000		XC968-ND	.73	.66	.53	.47	ECS-400-18-10-3OT
50.000		XC969-ND	.73	.66	.53	.47	ECS-500-18-9-3OT



3X9



3X10

Specifications: • **Frequency Tolerance:** ±50ppm @+25°C and over operating temperature range • **Operating Temp. Range:** -10°C to +60°C • **Storage Temp. Range:** -40°C to +85°C • **Equivalent Series Resistance:** (See Chart) • **Shunt Capacitance:** 5.0 max. pF • **Drive Level:** 50µW-100µW • **Insulation Resistance:** 500MΩ min./DC 100V ± 15V • **Aging (first year):** ±5 ppm max. @ 25°C ±3°C

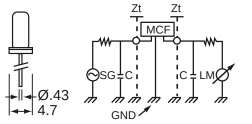
Freq. MHz	Equivalent Series Res.	Mode
3.5 – 4	200Ω Max.	Fundamental
4 – 6	150Ω Max.	
6 – 10	100Ω Max.	
10 – 30	50Ω Max.	
30 – 36	100Ω Max.	3rd O/T
36 – 70	80Ω Max.	

ECS INC. INTERNATIONAL Monolithic Crystal Filters - “10.7MHz”

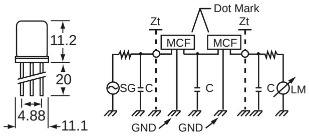
12.5KHz Channel Spacing: • **Operating Temp. Range:** -20°C to +70°C • **Pass Bandwidth:** 3dB ±3.75KHz min. • **Stop Bandwidth:** 20dB ±18KHz for Model 10.7-7.5A; 40dB ±14KHz for Model 10.7-7.5B

25KHz Channel Spacing: • **Operating Temp. Range:** -20°C to +70°C • **Pass Bandwidth:** 3dB ±7.5KHz min. • **Stop Bandwidth:** 18dB ±25KHz for Model 10.7-15A; 40dB ±25KHz for Model 10.7-15B

50KHz Channel Spacing: • **Operating Temperature Range:** -20°C to +70°C • **Pass Bandwidth:** 3dB ±15KHz min. • **Stop Bandwidth:** 15dB ±50KHz for Model 10.7-30A; 30dB ±40KHz for Model 10.7-30B



2-Pole MCF Test Circuit Zt: Terminating Impedance



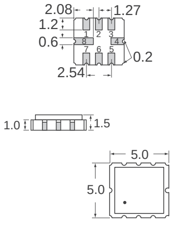
4-Pole MCF Test Circuit Zt: Terminating Impedance

No. of Pole	Ripple (Max.)	Insert. Loss	Term. Impedance OHMS//pf	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
12.5KHz Channel Spacing									
2	0.5dB	1.5dB	1.8K//5	X701-ND	5.20	4.32	3.44	2.66	ECS-10.7-7.5A
4	1dB	2.5dB	1.8K//4	X702-ND†	12.03	9.99	7.96	6.15	ECS-10.7-7.5B
25KHz Channel Spacing									
2	0.5dB	2.0dB	3K//2	X703-ND	3.09	2.57	2.05	1.58	ECS-10.7-15A
4	1dB	2.5dB	3K//2	X704-ND†	6.34	5.27	4.20	3.24	ECS-10.7-15B
50KHz Channel Spacing									
2	0.5dB	1.5dB	5K//0	X705-ND	4.23	3.51	2.80	2.16	ECS-10.7-30A
4	1dB	2.5dB	5.5K//-1	X706-ND†	8.78	7.29	5.81	4.49	ECS-10.7-30B

† Package is HC-49/U x 2

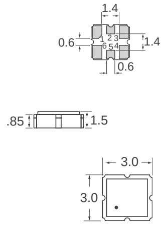
Saw Filters

Fig. 1



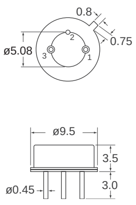
Pad Connections			
1	Input	5	Output
2	Ground	6	Ground
3	Ground	7	Coupling
4	Ground	8	Ground

Fig. 2



Pad Connections			
1	Ground	4	Ground
2	Signal	5	Signal
3	Ground	6	Ground

Fig. 3



Pin Connections	
1	Input
2	Output
3	Ground

Fig.	Center Freq. MHz	Inser. Loss dB	Pass Band Min. MHz	Typ.	Max. MHz	Digi-Key Part No.	Price Each 1	10	100	T & R Pricing 1,000‡	ECS Part No.
1	400.00	6	—	±83Khz	—	XC994CT-ND	3.57	3.22	2.68	1785.00	ECS-DSF400.0A-51
2	947.5	3.3	25	—	—	XC995CT-ND	3.57	3.22	2.68	1785.00	ECS-DSF947.5B-21
3	479.5	23	25.7	26.7 Mhz	27.7	XC992-ND*	2.25	2.03	1.62	—	ECS-D479.5B
3	480.0	21	16.6	17.6 Mhz	18.6	XC993-ND*	2.25	2.03	1.62	—	ECS-D480A

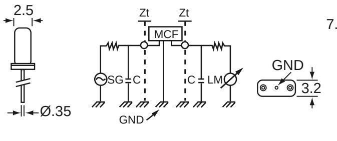
* Bulk Packaging ‡ For Tape and Reel part number change CT-ND to TR-ND

Monolithic Crystal Filters - “21.4MHz”

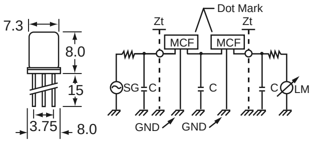
12.5KHz Channel Spacing: • **Operating Temp. Range:** -20°C to +70°C • **Pass Bandwidth:** 3dB ±3.75KHz min. • **Stop Bandwidth:** 18dB ±12.5KHz for Model 21K-7.5A; 35dB ±12.5KHz for Model 21K7.5B

25KHz Channel Spacing: • **Operating Temperature Range:** -20°C to +70°C • **Pass Bandwidth:** 3dB ±7.5KHz min. • **Stop Bandwidth:** 18dB ±25KHz for Model 21K15A; 40dB ±25KHz for Model 21K15B

50KHz Channel Spacing: • **Operating Temperature Range:** -20°C to +70°C • **Pass Bandwidth:** 3dB ±15KHz min. • **Stop Bandwidth:** 15dB ±45KHz for Model 21K30A; 40dB ±50KHz for Model 21K30B



2-Pole MCF Test Circuit Zt: Terminating Impedance



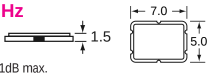
4-Pole MCF Test Circuit Zt: Terminating Impedance

No. of Pole	Ripple (Max.)	Insert. Loss	Term. Impedance OHMS//pf	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
12.5KHz Channel Spacing									
2	0.5dB	2.0dB	1.5K//6	X707-ND	4.39	3.65	2.91	2.25	ECS-21K7.5A
4	1dB	2.5dB	850//5	X708-ND†	10.24	8.51	6.78	5.23	ECS-21K7.5B
25KHz Channel Spacing									
2	0.5dB	1.5dB	1.5K//3	X709-ND	4.39	3.65	2.91	2.25	ECS-21K15A
4	1dB	2dB	1.5K//2	X710-ND†	10.24	8.51	6.78	5.23	ECS-21K15B
50KHz Channel Spacing									
2	0.5dB	1.5dB	1.5K//1	X711-ND	4.39	3.65	2.91	2.25	ECS-21K30A
4	1dB	2dB	1.8K//0.5	X712-ND†	10.24	8.51	6.78	5.23	ECS-21K30B

† Package is UM-1 x 2

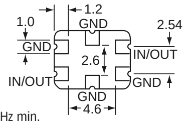
SMD Monolithic Crystal Filters

21.4MHz



- **Ripple:** 1dB max.
- **Insertion Loss:** 2.5dB
- **Operating Temperature:** -30°C to +85°C
- **Fo:** 21.4MHz
- **Pass Bandwidth:** 3dB ±7.5KHz min.
- **Stop Bandwidth:** 10dB ±25KHz

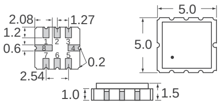
45MHz



- **Ripple:** 1dB max.
- **Insertion Loss:** 3dB
- **Operating Temp.:** -30°C to +85°C
- **Fo:** 45.0MHz
- **Pass Bandwidth:** 3dB ±15KHz min.
- **Stop Bandwidth:** 15dB ±60KHz

No. of Pole	Term. Impedance OHMS//pf	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	ECS Part No.
2	1500//2.5	X713CT-ND	7.31	6.08	4.84	X713TR-ND	3375.00	96SMF21A15-TR
2	1100//0	X714CT-ND	10.56	8.78	6.99	X714TR-ND	4875.00	96SMF45A30-TR

ECS-SDR1 One Port Saw Resonators



Pad Connections			
1	No Conn.	5	No Conn.
2	Input	6	Output
3	No Conn.	7	No Conn.
4	Ground	8	Ground

Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	ECS Part No.
315.0	XC996CT-ND	3.57	3.22	2.68	XC996TR-ND	1785.00	ECS-SDR1-3150
418.0	XC997CT-ND	3.57	3.22	2.68	XC997TR-ND	1785.00	ECS-SDR1-4180
433.92	XC998CT-ND	3.57	3.22	2.68	XC998TR-ND	1785.00	ECS-SDR1-4339

Ceramic Resonators

ZTT and SR1-B Series:

• Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C to +80°C, ±0.3% • Aging for Ten Years: ±0.3% • Built-in Capacitance: 30pf ±20%

ZTA, ZTB and SR1-A Series:

• Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C to +80°C, ±0.3% • Aging for Ten Years: ±0.5% • Operating Temperature: -20°C to +80°C

Fig.	Series	Frequency	Digi-Key Part No.	Price Each 1	10	100	ECS Part No.
1	ZTT with Caps	3.58MHz	X901-ND	.54	.45	.36	ZTT-3.58MG
		4.00MHz	X902-ND	.54	.45	.36	ZTT-4.00MG
		4.19MHz	X903-ND	.54	.45	.36	ZTT-4.19MG
		6.00MHz	X904-ND	.54	.45	.36	ZTT-6.00MT
		8.00MHz	X905-ND	.54	.45	.36	ZTT-8.00MT
		10.00MHz	X906-ND	.54	.45	.36	ZTT-10.00MT
		12.00MHz	X907-ND	.54	.45	.36	ZTT-12.00MT
		16.00MHz	X908-ND	.54	.45	.36	ZTT-16.00MX
		20.00MHz	X909-ND	.54	.45	.36	ZTT-20.00MX
2	ZTA without Caps	3.58MHz	X910-ND	.49	.41	.33	ZTA-3.58MG
		4.00MHz	X911-ND	.49	.41	.33	ZTA-4.00MG
		4.19MHz	X912-ND	.49	.41	.33	ZTA-4.19MG
3	ZTA without Caps	6.00MHz	X913-ND	.49	.41	.33	ZTA-6.00MT
		8.00MHz	X914-ND	.49	.41	.33	ZTA-8.00MT
		10.00MHz	X915-ND	.49	.41	.33	ZTA-10.00MT
		12.00MHz	X916-ND	.49	.41	.33	ZTA-12.00MT
		16.00MHz	X917-ND	.49	.41	.33	ZTA-16.00MX011
		20.00MHz	X918-ND	.49	.41	.33	ZTA-20.00MX011
4	ZTB without Caps	200KHz	X919-ND	.84	.70	.56	ZTB200D
		400KHz	X920-ND	.68	.57	.45	ZTB400P
		455KHz	X921-ND	.68	.57	.45	ZTB455E
		500KHz	X922-ND	.68	.57	.45	ZTB500E
		540KHz	X923-ND	.68	.57	.45	ZTB540P
		640KHz	X924-ND	.68	.57	.45	ZTB640P
		800KHz	X925-ND	.68	.57	.45	ZTB800J
		1000KHz	X926-ND	.68	.57	.45	ZTB1000J

Fig. 1

Dim. in ( ) is for Freq. Range 3.58-4.19

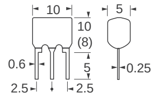


Fig. 2

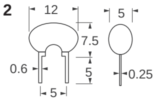


Fig. 3

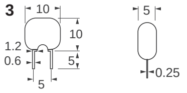
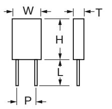


Fig. 4



Frequency Range	Dimensions W	T	H	P	L
200	13.5	3.8	14.7	10.0	8.0
400	7.9	3.6	9.3	5.0	4.0
455-640	7.0	3.5	9.0	5.0	4.0
800-1000	5.2	2.8	6.0	2.5	3.5

Fig. 5

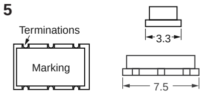


Fig. 5A

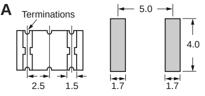


Fig. 5B

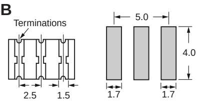
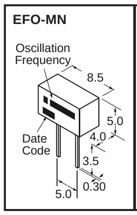


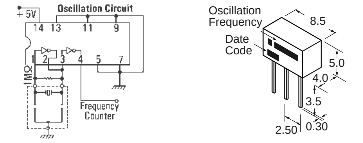
Fig.	Series	Freq.	Internal Cap. C1 & C2	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,500	ECS Part No.
5A	ECS-SR1-A	3.58	—	X932CT-ND	.70	.60	.47	X932TR-ND	280.00/M	ECS-SR1-3.58-A
		4.000	—	X933CT-ND	.70	.60	.47	X933TR-ND	280.00/M	ECS-SR1-4.00-A
		4.19	—	X934CT-ND	.70	.60	.47	X934TR-ND	280.00/M	ECS-SR1-4.19-A
		6.000	—	X935CT-ND	.70	.60	.47	X935TR-ND	280.00/M	ECS-SR1-6.00-A
		8.000	—	X936CT-ND	.70	.60	.47	X936TR-ND	280.00/M	ECS-SR1-8.00-A
5B	ECS-SR1-B	3.58	30 pF	X927CT-ND	.77	.66	.52	X927TR-ND	308.00/M	ECS-SR1-3.58-B
		4.000	30 pF	X928CT-ND	.77	.66	.52	X928TR-ND	308.00/M	ECS-SR1-4.00-B
		4.19	30 pF	X929CT-ND	.77	.66	.52	X929TR-ND	308.00/M	ECS-SR1-4.19-B
		6.000	30 pF	X930CT-ND	.77	.66	.52	X930TR-ND	308.00/M	ECS-SR1-6.00-B
		8.000	30 pF	X931CT-ND	.77	.66	.52	X931TR-ND	308.00/M	ECS-SR1-8.00-B

Panasonic® Ceramic Resonators

EFO-MN



EFO-MC — Built-In Capacitors Type: • Includes two capacitors, constructing Colpitts oscillation circuits. High accuracy and stable characteristics will be realized with the selected capacitors encased, small in size due to the new design of construction.



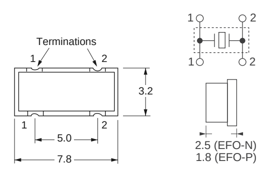
Osc. Freq.	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Panasonic Part No.
Ceramic Resonators							
3.00MHz	PX300MN-ND	1.04	8.91	69.80	424.00	396.00/M	EFO-MN3004A4
3.58MHz	PX358MN-ND	.78	6.72	52.66	320.00	299.00/M	EFO-MN3584A4
4.00MHz	PX400MN-ND	.77	6.62	51.89	315.00	294.00/M	EFO-MN4004A4
5.00MHz	PX500MN-ND	.78	6.72	52.66	320.00	299.00/M	EFO-MN5004A4
6.00MHz	PX600MN-ND	.86	7.34	57.46	349.00	326.00/M	EFO-MN6004A4
8.00MHz	PX800MN-ND	.87	7.47	58.52	356.00	332.00/M	EFO-MN8004A4
10.00MHz	PX1000MN-ND	1.14	9.81	76.85	467.00	436.00/M	EFO-MN1005B4
12.00MHz	PX1200MN-ND	1.14	9.81	76.85	467.00	436.00/M	EFO-MN1205B4
Ceramic Resonators With Built-In Capacitor							
2.00MHz	PX200MC-ND	1.03	8.79	68.86	419.00	391.00/M	EFO-MC2004A4
3.00MHz	PX300MC-ND	1.04	8.91	69.80	424.00	396.00/M	EFO-MC3004A4
3.58MHz	PX358MC-ND	.77	6.62	51.89	315.00	294.00/M	EFO-MC3584A4
4.00MHz	PX400MC-ND	.63	5.37	42.09	256.00	239.00/M	EFO-MC4004A4
5.00MHz	PX500MC-ND	.77	6.62	51.89	315.00	294.00/M	EFO-MC5004A4
6.00MHz	PX600MC-ND	.90	7.72	60.47	368.00	343.00/M	EFO-MC6004A4
8.00MHz	PX800MC-ND	.86	7.34	57.46	349.00	326.00/M	EFO-MC8004A4
10.00MHz	PX1000MC-ND	1.14	9.81	76.85	467.00	436.00/M	EFO-MC1005B4
12.00MHz	PX1200MC-ND	1.14	9.81	76.85	467.00	436.00/M	EFO-MC1205B4

Surface Mount Ceramic Resonators:

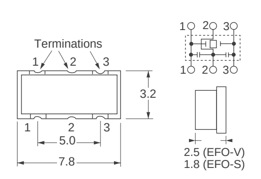
Features: • Constructed with ceramic package • High reliability against soldering heat and mechanical stress • Moisture-proof sealing • Stable against solvent cleaning • Designed for reflow soldering • Flat-bottom plate for better mountings

Applications: • Clock generator for various microprocessers • Carrier between telecommunication equipment (telephone to telephone, personal computer to printer, etc.)

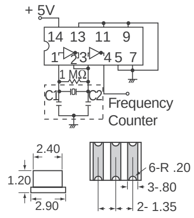
Type EFO-P Surface Mount



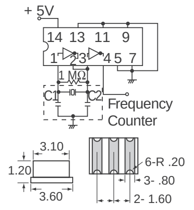
Type EFO-S Surface Mount



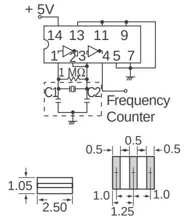
Type EFO-BM Surface Mount



Type EFO-JM Surface Mount



Type EFJ-C Surface Mount

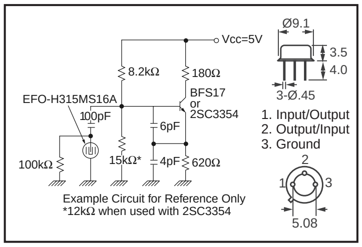


Osc. Freq.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
Type P Surface Mount-General Purpose Lo-Profile									
3.58MHz	PX358PCT-ND	1.58	13.50	105.75	472.50	PX358PTR-ND	2,500	436.29/M	EFO-P3584E5
4.00MHz	PX400PCT-ND	1.58	13.50	105.75	472.50	PX400PTR-ND	2,500	534.29/M	EFO-P4004E5
4.19MHz	PX419PCT-ND	1.58	13.50	105.75	472.50	PX419PTR-ND	2,500	642.86/M	EFO-P4194E5
5.00MHz	PX500PCT-ND	1.61	13.77	107.87	481.95	PX500PTR-ND	2,500	655.72/M	EFO-P5004E5
6.00MHz	PX600PCT-ND	1.61	13.77	107.87	481.95	PX600PTR-ND	2,500	655.72/M	EFO-P6004E5
8.00MHz	PX800PCT-ND	1.61	13.77	107.87	481.95	PX800PTR-ND	2,500	545.43/M	EFO-P8004E5
Type S Surface Mount With Built-In Capacitor Lo-Profile									
3.58MHz	PX358SCT-ND	1.61	13.77	107.87	481.95	PX358STR-ND	2,500	545.43/M	EFO-S3584E5
4.00MHz	PX400SCT-ND	1.61	13.77	107.87	481.95	PX400STR-ND	2,500	395.15/M	EFO-S4004E5
4.19MHz	PX419SCT-ND	1.61	13.77	107.87	481.95	PX419STR-ND	2,500	655.72/M	EFO-S4194E5
5.00MHz	PX500SCT-ND	1.64	14.04	109.98	491.40	PX500STR-ND	2,500	668.58/M	EFO-S5004E5
6.00MHz	PX600SCT-ND	1.64	14.04	109.98	491.40	PX600STR-ND	2,500	668.58/M	EFO-S6004E5
8.00MHz	PX800SCT-ND	1.64	14.04	109.98	491.40	PX800STR-ND	2,500	433.15/M	EFO-S8004E5
Type BM Surface Mount With Built-In Capacitor									
16.00MHz	PX160BCT-ND	.64	5.50	43.10	192.59	PX160BTR-ND	1,000	262.00	EFO-BM1605E5
16.93MHz	PX169BCT-ND	.64	5.50	43.10	192.59	PX169BTR-ND	1,000	262.00	EFO-BM1695E5
20.00MHz	PX200BCT-ND	.72	6.19	48.46	216.51	PX200BTR-ND	1,000	295.00	EFO-BM2005E5
Type JM Surface Mount With Built-In Capacitor									
32.00MHz	PX320JCT-ND	.72	6.19	48.46	216.51	PX320JTR-ND	1,000	295.00	EFO-JM3205E5
33.86MHz	PX338JCT-ND	.72	6.19	48.46	216.51	PX338JTR-ND	1,000	295.00	EFO-JM3385E5
40.00MHz	PX400JCT-ND	.64	5.50	43.10	192.59	PX400JTR-ND	1,000	261.00	EFO-JM4005E5
Type C Surface Mount With Built-In Capacitor									
20.00MHz	PX200CCT-ND	.64	5.50	43.10	192.59	PX200CTR-ND	3,000	262.00/M	EFJ-C2005E5B
30.00MHz	PX300CCT-ND	.64	5.50	43.10	192.59	PX300CTR-ND	3,000	262.00/M	EFJ-C3005E5B
40.00MHz	PX400CCT-ND	.64	5.50	43.10	192.59	PX400CTR-ND	3,000	261.00/M	EFJ-C4005E5B

Panasonic® SAW Resonators

Capable of fundamental wave oscillation, and it is particularly suited for simplification, size reduction and stabilization of the circuit, compared with conventional LC oscillation and quartz crystal oscillation.

Features: • Capable of fundamental oscillation • Superior temperature characteristics • Suited for simplification, size reduction and stabilization of the circuit **Recommended Applications:** • Oscillation circuit for remote control (garage door opener, security system) • Various kinds of local oscillation circuit **Characteristics:** • Operating Temperature: -20°C to +80°C • Maximum Frequency Drift: -150 to 50 ppm/°C (-20°C to +80°C) **1 Port Type:** • Resonant Resistance (Ω); 30 max. • Cap. (pF); 2.0 ± 0.5. **2 Port Type:** • Insertion Loss (dB); 15 max. • Loaded Q; 7000 min. (5,000 min. for 418.00 and 433.92 frequency). • Cap. (pF); 1.3 ± 0.3 • Phase Shift; 180°



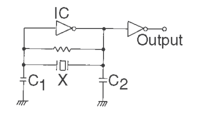
Example Circuit for Reference Only
*12kΩ when used with 2SC3354

Port Type	Resonant Frequency (MHz)	Center Freq. (MHz)	Digi-Key Part No.	Pricing 1	10	100	Panasonic Part No.
1	224.50 ±0.25	—	PX224S1-ND	6.87	58.86	461.07	EFO-H224MS12
	418.00 ±0.25	—	PX418S1-ND	6.87	58.86	461.07	EFO-H418MS12
2	—	224.50 ±0.25	PX224S2-ND	6.87	58.86	461.07	EFO-H224MS03
	—	418.00 ±0.25	PX418S2-ND	6.87	58.86	461.07	EFO-H418MS03

TOKO Ceramic Resonators

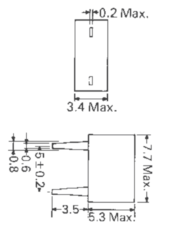
TOKO ceramic resonators utilize the piezoelectric principle converting a mechanical force (stress) into an electrical signal or converting an electrical signal into a mechanical force. The ceramic resonator is a thin section of piezoelectric ceramic material, such as quartz, whose sides are metallized into a corresponding pair of electrodes and upon the application of current produce a lengthwise vibration.

CRL, CRK

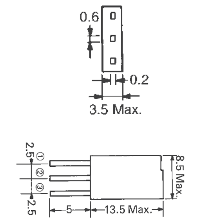


Output
IC : 1/5µ-PD4069
VDD : + 5V
X : Ceramic Element
C1,C2: External Capacitors

CRK



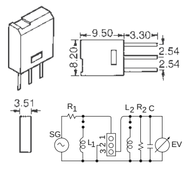
CRL



External Osc. Freq.	Capacitor C1(pF)	Capacitor C2	Digi-Key Part No.	Pricing 1	10	100	Toko Part No.
CRL Type							
220KHz ±3%	300	300	TK9920-ND	3.55	28.44	177.50	CRL220
262KHz ±3%	300	300	TK9921-ND	3.55	28.44	177.50	CRL262
CRK Type							
400KHz ±1%	560	200	TK9940-ND	1.88	15.20	94.00	BP11DCRK400
455KHz ±1%	560	200	TK9942-ND	1.88	15.20	94.00	BP11DCRK455
480KHz ±1%	560	200	TK9943-ND	1.88	15.20	94.00	BP11DCRK480
500KHz ±1%	560	200	TK9944-ND	1.88	15.20	94.00	BP11DCRK500

AM Ceramic Filters "455KHz"

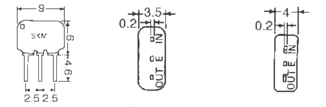
Center Frequency: 455 6 2kHz; **Insertion Loss:** 6dB; **Attn. within 100KHz:** 30dB.



Bw. –6dB (KHz)	Sel. Fo ± –9KHz (dB)	I/O Imp. (Ohms)	Digi-Key Part No.	Pricing 1	10	100	Toko Part No.
CFM2 Type							
4	18	1K:1.5K	TK2330-ND	2.65	23.21	165.75	AHCFM2-455AL
6	16	1.5K:2K	TK2331-ND	2.65	23.21	165.75	AHCFM2-455BL
8	12	2K:2K	TK2332-ND	2.65	23.21	165.75	AHCFM2-455CL
10	9	2K:2K	TK2333-ND	2.89	25.27	180.50	AHCFM2-455DL
12	6	2.5K:2.5K	TK2334-ND	2.89	25.27	180.50	AHCFM2-455EL

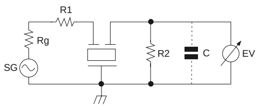
FM Ceramic Filters "10.7MHz"

CFSK



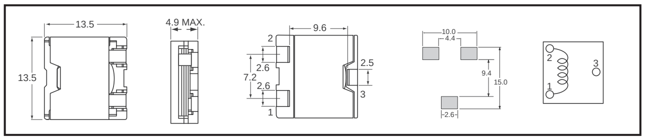
Impedance 330Ω

Test Circuit



Bw @3dB (KHz)	Ins. Loss (Max.)	Spurious Response (9-12 MHz)	Digi-Key Part No.	Pricing 1	10	100	Toko Part No.
CFSK Type							
280	6dB	30dB	TK2304-ND	1.85	14.80	92.00	SK107M1N-AO-10
230	6dB	35dB	TK2306-ND	1.48	12.00	74.00	SK107M2N-AO-20
180	7dB	40dB	TK2307-ND	1.37	11.20	69.00	SK107M3N-AO-20
150	10dB	40dB	TK2308-ND	2.12	17.20	106.00	SK107M4N-AO-20
330	6dB	30dB	TK2310-ND	3.12	25.20	156.00	SK107MON-AO-10
380	5dB	30dB	TK2311-ND	3.12	25.20	156.00	SK107MAN-AO-10

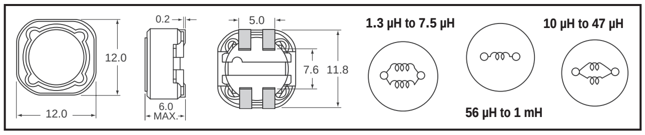
Series CDEP134



Inductance	D.C.R.(Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 500	Sumida Part No.
				1	10	100		
0.4µH	.0019	32.0	308-1000-1-ND	4.72	4.29	3.20	1197.00	CDEP134-0R4NC
0.9µH	.0025	21.6	308-1001-1-ND	4.72	4.29	3.20	1197.00	CDEP134-0R9MC
0.3µH	.0019	24.4	308-1002-1-ND	4.72	4.29	3.20	1197.00	CDEP134-0R3NC-H
0.66µH	.0025	29.0	308-1003-1-ND	4.72	4.29	3.20	1197.00	CDEP134-0R6NC-H
1.2µH	.0037	21.0	308-1004-1-ND	4.72	4.29	3.20	1197.00	CDEP134-1R2MC-H
1.6µH	.0037	16.0	308-1005-1-ND	4.72	4.29	3.20	1197.00	CDEP134-1R6MC
2.5µH	.0066	12.8	308-1006-1-ND	4.72	4.29	3.20	1197.00	CDEP134-2R5MC
3.6µH	.0108	10.9	308-1007-1-ND	4.72	4.29	3.20	1197.00	CDEP134-3R6MC
4.8µH	.0120	9.3	308-1008-1-ND	4.72	4.29	3.20	1197.00	CDEP134-4R8MC
6.4µH	.0163	8.0	308-1009-1-ND	4.72	4.29	3.20	1197.00	CDEP134-6R4MC
8.0µH	.0184	7.2	308-1010-1-ND	4.72	4.29	3.20	1197.00	CDEP134-8R0MC
1.8µH	.0066	17.6	308-1011-1-ND	4.72	4.29	3.20	1197.00	CDEP134-1R8MC-H
2.7µH	.0108	14.7	308-1012-1-ND	4.72	4.29	3.20	1197.00	CDEP134-2R7MC-H
3.6µH	.0120	12.5	308-1013-1-ND	4.72	4.29	3.20	1197.00	CDEP134-3R6MC-H
4.8µH	.0163	11.0	308-1014-1-ND	4.72	4.29	3.20	1197.00	CDEP134-4R8MC-H
6.0µH	.0184	9.6	308-1015-1-ND	4.72	4.29	3.20	1197.00	CDEP134-6R0MC-H

*For Tape & Reel part number, change 1-ND to 2-ND.

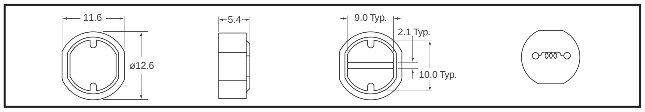
Series CDRH125



Inductance	D.C.R.(Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 500	Sumida Part No.
				1	10	100		
1.3µH	0.012	8.00	308-1040-1-ND	2.13	1.94	1.44	540.00	CDRH125-1R3NC
2.1µH	0.014	7.00	308-1041-1-ND	2.13	1.94	1.44	540.00	CDRH125-2R1NC
3.1µH	0.014	6.00	308-1042-1-ND	2.13	1.94	1.44	540.00	CDRH125-3R1NC
4.4µH	0.020	5.00	308-1043-1-ND	2.13	1.94	1.44	540.00	CDRH125-4R4NC
5.8µH	0.021	4.40	308-1044-1-ND	2.13	1.94	1.44	540.00	CDRH125-5R8NC
7.5µH	0.024	4.20	308-1045-1-ND	2.13	1.94	1.44	540.00	CDRH125-7R5NC
10µH	0.025	4.00	308-1046-1-ND	2.13	1.94	1.44	540.00	CDRH125-100MC
12µH	0.027	3.50	308-1047-1-ND	2.13	1.94	1.44	540.00	CDRH125-120MC
15µH	0.030	3.30	308-1048-1-ND	2.13	1.94	1.44	540.00	CDRH125-150MC
18µH	0.034	3.00	308-1049-1-ND	2.13	1.94	1.44	540.00	CDRH125-180MC
22µH	0.036	2.80	308-1050-1-ND	2.13	1.94	1.44	540.00	CDRH125-220MC
27µH	0.051	2.30	308-1051-1-ND	2.13	1.94	1.44	540.00	CDRH125-270MC
33µH	0.057	2.10	308-1052-1-ND	2.13	1.94	1.44	540.00	CDRH125-330MC
39µH	0.068	2.00	308-1053-1-ND	2.13	1.94	1.44	540.00	CDRH125-390MC
47µH	0.075	1.80	308-1054-1-ND	2.13	1.94	1.44	540.00	CDRH125-470MC
56µH	0.11	1.70	308-1055-1-ND	2.13	1.94	1.44	540.00	CDRH125-560MC
68µH	0.12	1.50	308-1056-1-ND	2.13	1.94	1.44	540.00	CDRH125-680MC
82µH	0.14	1.40	308-1057-1-ND	2.13	1.94	1.44	540.00	CDRH125-820MC
100µH	0.16	1.30	308-1058-1-ND	2.13	1.94	1.44	540.00	CDRH125-101MC
120µH	0.17	1.10	308-1059-1-ND	2.13	1.94	1.44	540.00	CDRH125-121MC
150µH	0.23	1.00	308-1060-1-ND	2.13	1.94	1.44	540.00	CDRH125-151MC
180µH	0.29	0.90	308-1061-1-ND	2.13	1.94	1.44	540.00	CDRH125-181MC
220µH	0.40	0.80	308-1062-1-ND	2.13	1.94	1.44	540.00	CDRH125-221MC
270µH	0.46	0.75	308-1063-1-ND	2.13	1.94	1.44	540.00	CDRH125-271MC
330µH	0.51	0.68	308-1064-1-ND	2.13	1.94	1.44	540.00	CDRH125-331MC
390µH	0.69	0.65	308-1065-1-ND	2.13	1.94	1.44	540.00	CDRH125-391MC
470µH	0.77	0.58	308-1066-1-ND	2.13	1.94	1.44	540.00	CDRH125-471MC
560µH	0.86	0.54	308-1067-1-ND	2.13	1.94	1.44	540.00	CDRH125-561MC
680µH	1.20	0.48	308-1068-1-ND	2.13	1.94	1.44	540.00	CDRH125-681MC
820µH	1.34	0.43	308-1069-1-ND	2.13	1.94	1.44	540.00	CDRH125-821MC
1.0mH	1.53	0.40	308-1070-1-ND	2.13	1.94	1.44	540.00	CDRH125-102MC

*For Tape & Reel part number, change 1-ND to 2-ND.

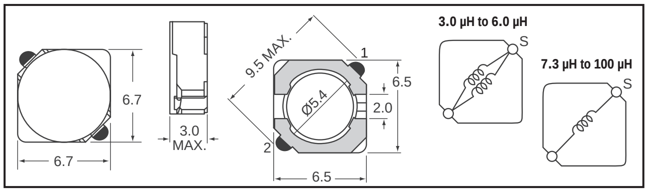
Series CDR125



Inductance	D.C.R.(Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 500	Sumida Part No.
				1	10	100		
22µH	0.07	2.20	308-1020-1-ND	2.59	2.36	1.76	657.00	CDR125-220MC
100µH	0.25	1.05	308-1028-1-ND	2.59	2.36	1.76	657.00	CDR125-101MC
330µH	0.80	0.57	308-1034-1-ND	2.59	2.36	1.76	657.00	CDR125-331MC

*For Tape & Reel part number, change 1-ND to 2-ND.

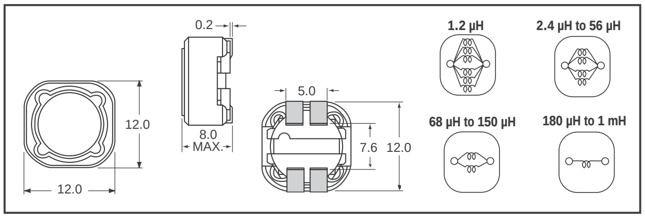
Series CDRH6D28



Inductance	D.C.R. (Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel* Pricing 1,500	Sumida Part No.
				1	10	100		
3.0µH	0.024	3.00	308-1218-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-3R0NC
3.9µH	0.027	2.60	308-1219-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-3R9NC
5.0µH	0.031	2.40	308-1220-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-5R0NC
6.0µH	0.035	2.25	308-1221-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-6R0NC
7.3µH	0.054	2.10	308-1222-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-7R3NC
8.6µH	0.058	1.85	308-1223-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-8R6NC
10µH	0.065	1.70	308-1224-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-100NC
12µH	0.070	1.55	308-1225-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-120NC
15µH	0.084	1.40	308-1226-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-150NC
18µH	0.095	1.32	308-1227-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-180NC
22µH	0.128	1.20	308-1228-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-220NC
27µH	0.142	1.05	308-1229-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-270NC
33µH	0.165	0.97	308-1230-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-330NC
39µH	0.210	0.86	308-1231-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-390NC
47µH	0.238	0.80	308-1232-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-470NC
56µH	0.277	0.73	308-1233-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-560NC
68µH	0.304	0.65	308-1234-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-680NC
82µH	0.390	0.60	308-1235-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-820NC
100µH	0.535	0.54	308-1236-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-101NC

*For Tape & Reel part number, change 1-ND to 2-ND.

Series CDRH127



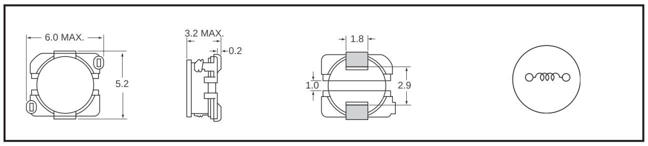
Inductance	D.C.R. (Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel* Pricing 500	Sumida Part No.
				1	10	100		
1.2µH	.0070	9.80	308-1071-1-ND	3.05	2.78	2.07	774.00	CDRH127-1R2NC
2.4µH	.0115	8.00	308-1072-1-ND	3.05	2.78	2.07	774.00	CDRH127-2R4NC
3.5µH	.0135	7.50	308-1073-1-ND	3.05	2.78	2.07	774.00	CDRH127-3R5NC
4.7µH	.0158	6.80	308-1074-1-ND	3.05	2.78	2.07	774.00	CDRH127-4R7NC
6.1µH	.0176	6.60	308-1075-1-ND	3.05	2.78	2.07	774.00	CDRH127-6R1NC
7.6µH	.0200	5.90	308-1076-1-ND	3.05	2.78	2.07	774.00	CDRH127-7R6NC
10µH	.0216	5.40	308-1077-1-ND	3.05	2.78	2.07	774.00	CDRH127-100MC
12µH	.0243	4.90	308-1078-1-ND	3.05	2.78	2.07	774.00	CDRH127-120MC
15µH	.0270	4.50	308-1079-1-ND	3.05	2.78	2.07	774.00	CDRH127-150MC
18µH	.0392	3.90	308-1080-1-ND	3.05	2.78	2.07	774.00	CDRH127-180MC
22µH	.0432	3.60	308-1081-1-ND	3.05	2.78	2.07	774.00	CDRH127-220MC
27µH	.0459	3.40	308-1082-1-ND	3.05	2.78	2.07	774.00	CDRH127-270MC
33µH	.0648	3.00	308-1083-1-ND	3.05	2.78	2.07	774.00	CDRH127-330MC
39µH	.0729	2.75	308-1084-1-ND	3.05	2.78	2.07	774.00	CDRH127-390MC
47µH	0.10	2.50	308-1085-1-ND	3.05	2.78	2.07	774.00	CDRH127-470MC
56µH	0.11	2.35	308-1086-1-ND	3.05	2.78	2.07	774.00	CDRH127-560MC
68µH	0.14	2.10	308-1087-1-ND	3.05	2.78	2.07	774.00	CDRH127-680MC
82µH	0.16	1.95	308-1088-1-ND	3.05	2.78	2.07	774.00	CDRH127-820MC
100µH	0.22	1.70	308-1089-1-ND	3.05	2.78	2.07	774.00	CDRH127-101MC
120µH	0.25	1.60	308-1090-1-ND	3.05	2.78	2.07	774.00	CDRH127-121MC
150µH	0.28	1.42	308-1091-1-ND	3.05	2.78	2.07	774.00	CDRH127-151MC
180µH	0.35	1.30	308-1092-1-ND	3.05	2.78	2.07	774.00	CDRH127-181MC
220µH	0.39	1.16	308-1093-1-ND	3.05	2.78	2.07	774.00	CDRH127-221MC
270µH	0.56	1.06	308-1094-1-ND	3.05	2.78	2.07	774.00	CDRH127-271MC
330µH	0.64	0.95	308-1095-1-ND	3.05	2.78	2.07	774.00	CDRH127-331MC
390µH	0.70	0.88	308-1096-1-ND	3.05	2.78	2.07	774.00	CDRH127-391MC
470µH	0.98	0.79	308-1097-1-ND	3.05	2.78	2.07	774.00	CDRH127-471MC
560µH	1.07	0.73	308-1098-1-ND	3.05	2.78	2.07	774.00	CDRH127-561MC
680µH	1.46	0.67	308-1099-1-ND	3.05	2.78	2.07	774.00	CDRH127-681MC
820µH	1.64	0.60	308-1100-1-ND	3.05	2.78	2.07	774.00	CDRH127-821MC
1.0mH	1.82	0.55	308-1101-1-ND	3.05	2.78	2.07	774.00	CDRH127-102MC

*For Tape & Reel part number, change 1-ND to 2-ND.

(*Continued*)

sumida Surface Mount Power Inductors *(Cont.)*

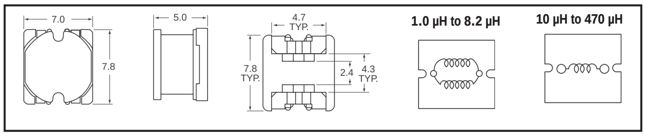
Series CDH53



Inductance	D.C.R. (Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 1,500	Sumida Part No.
10µH	0.16	1.23	308-1201-1-ND	1.03	.94	.70	522.00/M	CDH53-100LC
100µH	1.57	0.37	308-1213-1-ND	1.03	.94	.70	522.00/M	CDH53-101JC

*For Tape & Reel part number, change 1-ND to 2-ND.

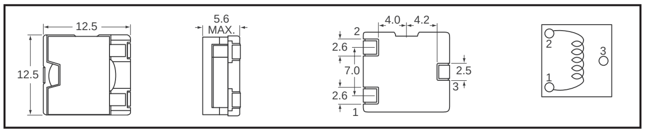
Series CR75



Inductance	D.C.R. (Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 1,000	Sumida Part No.
10µH	0.07	2.3	308-1237-1-ND	1.46	1.33	.99	738.00	CR75-100KC
33µH	0.13	1.2	308-1243-1-ND	1.46	1.33	.99	738.00	CR75-330KC
47µH	0.18	1.1	308-1245-1-ND	1.46	1.33	.99	738.00	CR75-470KC
56µH	0.24	0.94	308-1246-1-ND	1.46	1.33	.99	738.00	CR75-560KC
220µH	0.96	0.49	308-1253-1-ND	1.46	1.33	.99	738.00	CR75-221KC

*For Tape & Reel part number, change 1-ND to 2-ND.

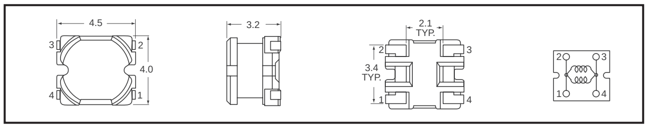
Series CEP125



Inductance	D.C.R. (Ω) (MAX. at 20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 500	Sumida Part No.
0.68µH	.0015	20.4	308-1110-1-ND	4.08	3.71	2.76	1035.00	CEP125-0R6NC-D
1.5µH	.0022	14.0	308-1111-1-ND	4.08	3.71	2.76	1035.00	CEP125-1R5MC-D
0.47µH	.0015	28.8	308-1112-1-ND	4.08	3.71	2.76	1035.00	CEP125-0R4NC-HD
1.0µH	.0022	20.0	308-1113-1-ND	4.08	3.71	2.76	1035.00	CEP125-1R0MC-HD
1.0µH	.0025	20.0	308-1268-1-ND	4.08	3.71	2.76	1035.00	CEP125-1R0MC-H
0.35µH	.0015	35.0	308-1114-1-ND	4.08	3.71	2.76	1035.00	CEP125-0R3NC-UD
0.8µH	.0022	25.7	308-1115-1-ND	4.08	3.71	2.76	1035.00	CEP125-0R8NC-UD

*For Tape & Reel part number, change 1-ND to 2-ND.

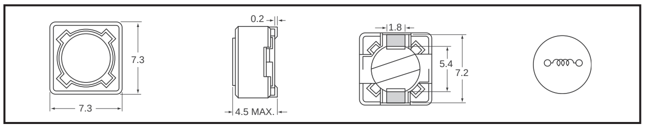
Series CR43



Inductance	D.C.R. (Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 1,500	Sumida Part No.
1.0µH	.0487	2.56	308-1116-1-ND	1.24	1.13	.84	455.00/M	CR43-1R0MC
1.4µH	.0562	2.52	308-1117-1-ND	1.24	1.13	.84	455.00/M	CR43-1R4MC
1.8µH	.0637	1.95	308-1118-1-ND	1.24	1.13	.84	455.00/M	CR43-1R8MC
2.2µH	.0712	1.75	308-1119-1-ND	1.24	1.13	.84	455.00/M	CR43-2R2MC
2.7µH	.0787	1.58	308-1120-1-ND	1.24	1.13	.84	455.00/M	CR43-2R7MC
3.3µH	.0862	1.44	308-1121-1-ND	1.24	1.13	.84	455.00/M	CR43-3R3MC
3.9µH	.0937	1.33	308-1122-1-ND	1.24	1.13	.84	455.00/M	CR43-3R9MC
4.7µH	.1087	1.15	308-1123-1-ND	1.24	1.13	.84	455.00/M	CR43-4R7MC
5.6µH	.1257	0.99	308-1124-1-ND	1.24	1.13	.84	455.00/M	CR43-5R6MC
6.8µH	.1312	0.95	308-1125-1-ND	1.24	1.13	.84	455.00/M	CR43-6R8MC
8.2µH	.1462	0.84	308-1126-1-ND	1.24	1.13	.84	455.00/M	CR43-8R2MC

*For Tape & Reel part number, change 1-ND to 2-ND.

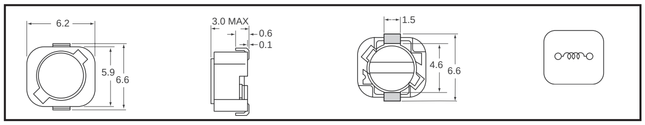
Series CDRH74



Inductance	D.C.R.(Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
10µH	0.049	1.84	308-1173-1-ND	1.49	1.36	1.01	756.00	CDRH74-100MC
12µH	0.058	1.71	308-1174-1-ND	1.49	1.36	1.01	756.00	CDRH74-120MC
15µH	0.081	1.47	308-1175-1-ND	1.49	1.36	1.01	756.00	CDRH74-150MC
18µH	0.091	1.31	308-1176-1-ND	1.49	1.36	1.01	756.00	CDRH74-180MC
22µH	0.11	1.23	308-1177-1-ND	1.49	1.36	1.01	756.00	CDRH74-220MC
27µH	0.15	1.12	308-1178-1-ND	1.49	1.36	1.01	756.00	CDRH74-270MC
33µH	0.17	0.96	308-1179-1-ND	1.49	1.36	1.01	756.00	CDRH74-330MC
39µH	0.23	0.91	308-1180-1-ND	1.49	1.36	1.01	756.00	CDRH74-390MC
47µH	0.26	0.88	308-1181-1-ND	1.49	1.36	1.01	756.00	CDRH74-470MC
56µH	0.35	0.75	308-1182-1-ND	1.49	1.36	1.01	756.00	CDRH74-560MC
68µH	0.38	0.69	308-1183-1-ND	1.49	1.36	1.01	756.00	CDRH74-680MC
82µH	0.43	0.61	308-1184-1-ND	1.49	1.36	1.01	756.00	CDRH74-820MC
100µH	0.61	0.60	308-1185-1-ND	1.49	1.36	1.01	756.00	CDRH74-101MC
120µH	0.66	0.52	308-1186-1-ND	1.49	1.36	1.01	756.00	CDRH74-121MC
150µH	0.88	0.46	308-1187-1-ND	1.49	1.36	1.01	756.00	CDRH74-151MC
180µH	0.98	0.42	308-1188-1-ND	1.49	1.36	1.01	756.00	CDRH74-181MC
220µH	1.17	0.36	308-1189-1-ND	1.49	1.36	1.01	756.00	CDRH74-221MC
270µH	1.64	0.34	308-1190-1-ND	1.49	1.36	1.01	756.00	CDRH74-271MC
330µH	1.86	0.32	308-1191-1-ND	1.49	1.36	1.01	756.00	CDRH74-331MC
390µH	2.85	0.29	308-1192-1-ND	1.49	1.36	1.01	756.00	CDRH74-391MC
470µH	3.01	0.26	308-1193-1-ND	1.49	1.36	1.01	756.00	CDRH74-471MC
560µH	3.62	0.23	308-1194-1-ND	1.49	1.36	1.01	756.00	CDRH74-561MC
680µH	4.63	0.22	308-1195-1-ND	1.49	1.36	1.01	756.00	CDRH74-681MC
820µH	5.20	0.20	308-1196-1-ND	1.49	1.36	1.01	756.00	CDRH74-821MC
1.0mH	6.00	0.18	308-1197-1-ND	1.49	1.36	1.01	756.00	CDRH74-102MC

*For Tape & Reel part number, change 1-ND to 2-ND.

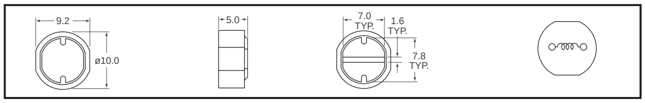
Series CDRH62B



Inductance	D.C.R.(Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 2,000	Sumida Part No.
2.9µH	0.068	1.94	308-1148-1-ND	.96	.88	.65	486.00/M	CDRH62B-2R9NC
4.0µH	0.080	1.63	308-1149-1-ND	.96	.88	.65	486.00/M	CDRH62B-4R0NC
5.5µH	0.096	1.40	308-1150-1-ND	.96	.88	.65	486.00/M	CDRH62B-5R5NC
6.3µH	0.10	1.30	308-1151-1-ND	.96	.88	.65	486.00/M	CDRH62B-6R3NC
7.1µH	0.11	1.22	308-1152-1-ND	.96	.88	.65	486.00/M	CDRH62B-7R1NC
8.0µH	0.12	1.15	308-1153-1-ND	.96	.88	.65	486.00/M	CDRH62B-8R0NC
10µH	0.15	1.10	308-1154-1-ND	.96	.88	.65	486.00/M	CDRH62B-100MC
12µH	0.20	1.00	308-1155-1-ND	.96	.88	.65	486.00/M	CDRH62B-120MC
15µH	0.23	0.90	308-1156-1-ND	.96	.88	.65	486.00/M	CDRH62B-150MC
18µH	0.27	0.80	308-1157-1-ND	.96	.88	.65	486.00/M	CDRH62B-180MC
22µH	0.34	0.74	308-1158-1-ND	.96	.88	.65	486.00/M	CDRH62B-220MC
27µH	0.38	0.66	308-1159-1-ND	.96	.88	.65	486.00/M	CDRH62B-270MC
33µH	0.45	0.59	308-1160-1-ND	.96	.88	.65	486.00/M	CDRH62B-330MC
39µH	0.49	0.54	308-1161-1-ND	.96	.88	.65	486.00/M	CDRH62B-390MC
47µH	0.69	0.50	308-1162-1-ND	.96	.88	.65	486.00/M	CDRH62B-470MC
56µH	0.78	0.46	308-1163-1-ND	.96	.88	.65	486.00/M	CDRH62B-560MC
68µH	1.07	0.42	308-1164-1-ND	.96	.88	.65	486.00/M	CDRH62B-680MC
82µH	1.21	0.38	308-1165-1-ND	.96	.88	.65	486.00/M	CDRH62B-820MC
100µH	1.39	0.34	308-1166-1-ND	.96	.88	.65	486.00/M	CDRH62B-101MC
120µH	1.90	0.31	308-1167-1-ND	.96	.88	.65	486.00/M	CDRH62B-121MC
150µH	2.18	0.28	308-1168-1-ND	.96	.88	.65	486.00/M	CDRH62B-151MC
180µH	2.77	0.26	308-1169-1-ND	.96	.88	.65	486.00/M	CDRH62B-181MC
220µH	3.12	0.23	308-1170-1-ND	.96	.88	.65	486.00/M	CDRH62B-221MC
270µH	4.38	0.22	308-1171-1-ND	.96	.88	.65	486.00/M	CDRH62B-271MC
330µH	4.94	0.19	308-1172-1-ND	.96	.88	.65	486.00/M	CDRH62B-331MC

*For Tape & Reel part number, change 1-ND to 2-ND.

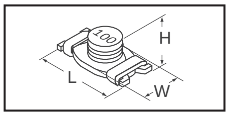
Series CDR105



Inductance	D.C.R.(Ω) (MAX. at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
22µH	0.09	1.71	308-1131-1-ND	1.56	1.42	1.06	396.00	CDR105-220MC
27µH	0.11	1.54	308-1132-1-ND	1.56	1.42	1.06	396.00	CDR105-270MC
100µH	0.35	0.80	308-1139-1-ND	1.56	1.42	1.06	396.00	CDR105-101MC

*For Tape & Reel part number, change 1-ND to 2-ND.

Unshielded Drum Core – DH Series



Features: • High energy storage and low resistance • Ideal for DC-DC step-up or step-down conversion • Robust temperature deflection to prevent damage during solder reflow

Specification: • Operating Temperature Rating: -40°C to +85°C

Note (A): Nominal Inductance Tested at 100kHz, 100mVrms at 20°C. DH8950 series is tested at 100kHz, 250mVrms at +20°C

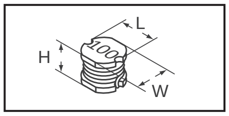
Note (B): DC current applied to produce a typical 30% drop from measured nominal inductance

Note (C): DC resistance is maximum at 20°C.

Inductance µH$^{(A)}$	Tol.	ISAT A$^{(B)}$	RDC Max. Ω$^{(C)}$	Dimensions (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	CoEv Part No.
DH8950 Series														
1.2	±20%	5.3	0.017	9.19	6.40	5.00	436-1001-1-ND	1.37	1.23	1.03	436-1001-2-ND	1,000	410.00	DH8950-1R2M
4.7		2.6	0.054				436-1003-1-ND	1.37	1.23	1.03	436-1003-2-ND	1,000	410.00	DH8950-4R7M
10		1.9	0.111				436-1000-1-ND	1.37	1.23	1.03	436-1000-2-ND	1,000	410.00	DH8950-100M
47		0.87	0.470				436-1002-1-ND	1.37	1.23	1.03	436-1002-2-ND	1,000	410.00	DH8950-470M
DH1364 Series														
1.0	±20%	11.0	0.006	13.26	9.96	6.35	436-1006-1-ND	1.51	1.36	1.14	436-1006-2-ND	750	339.75	DH1364-1R0M
4.7		5.4	0.018				436-1008-1-ND	1.51	1.36	1.14	436-1008-2-ND	750	339.75	DH1364-4R7M
10		3.30	0.040				436-1004-1-ND	1.51	1.36	1.14	436-1004-2-ND	750	339.75	DH1364-100M
47		1.40	0.280				436-1007-1-ND	1.51	1.36	1.14	436-1007-2-ND	750	339.75	DH1364-470M
100		0.95	0.400				436-1005-1-ND	1.51	1.36	1.14	436-1005-2-ND	750	339.75	DH1364-101M
DH2280 Series														
4.7	±20%	13.0	0.0140	22.35	16.26	8.00	436-1010-1-ND	1.77	1.59	1.33	436-1010-2-ND	250	132.50	DH2280-4R7M
10		10.0	0.0260				436-1009-1-ND	1.77	1.59	1.33	436-1009-2-ND	250	132.50	DH2280-100M

D

Unshielded Drum Core – DN Series



Features:

- High energy storage and low resistance
- Smaller real estate than other common inductors
- Robust temperature deflection to prevent damage during soldering
- Highly resistive core for EMI suppression applications

Specification:

- Operating Temperature Rating: -40°C to +85°C

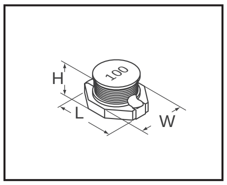
Note (A): Nominal Inductance Tested at 7.96MHz(1.0-8.2µH), 2.52MHz (10-82µH), 1kHz(100-1000µH), 1Vrms at 20°C

Note (B): DC current applied to produce a typical 10% drop in inductance or a temperature increase of 40°C whichever is lower

Note (C): DC Resistance is maximum at 20°C

Inductance µH$^{(A)}$	Tol.	ISAT A$^{(B)}$	DCR Max. Ω$^{(C)}$	Dimensions (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	CoEv Part No.
DN4835 Series														
1.0	±20%	3.80	0.033	4.80	4.30	3.50	436-1012-1-ND	1.25	1.13	.94	436-1012-2-ND	2,000	374.00/M	DN4835-1R0M
4.7	±20%	1.70	0.094				436-1014-1-ND	1.25	1.13	.94	436-1014-2-ND	2,000	374.00/M	DN4835-4R7M
10	±20%	1.15	0.182				436-1011-1-ND	1.25	1.13	.94	436-1011-2-ND	2,000	374.00/M	DN4835-100K
47	±10%	0.54	0.844				436-1013-1-ND	1.25	1.13	.94	436-1013-2-ND	2,000	374.00/M	DN4835-470K
DN6149 Series														
10	±20%	1.44	0.10	6.10	5.50	4.90	436-1015-1-ND	1.25	1.13	.94	436-1015-2-ND	1,000	374.00	DN6149-100M
47	±10%	0.72	0.37				436-1017-1-ND	1.25	1.13	.94	436-1017-2-ND	1,000	374.00	DN6149-470K
100	±10%	0.52	0.70				436-1016-1-ND	1.25	1.13	.94	436-1016-2-ND	1,000	374.00	DN6149-101K
DN8140 Series														
10	±20%	1.44	0.08	8.10	7.30	4.00	436-1018-1-ND	1.31	1.18	.99	436-1018-2-ND	1,000	393.00	DN8140-100M
47	±20%	0.68	0.25				436-1020-1-ND	1.31	1.18	.99	436-1020-2-ND	1,000	393.00	DN8140-470M
100	±10%	0.51	0.48				436-1019-1-ND	1.31	1.18	.99	436-1019-2-ND	1,000	393.00	DN8140-101K
DN8155 Series														
10	±10%	2.30	0.07	8.10	7.30	5.50	436-1021-1-ND	1.31	1.18	.99	436-1021-2-ND	1,000	393.00	DN8155-100K
47	±10%	1.10	0.18				436-1022-1-ND	1.31	1.18	.99	436-1022-2-ND	1,000	393.00	DN8155-470K
DN1047 Series														
10	±20%	2.38	0.05	10.30	9.30	4.70	436-1023-1-ND	1.49	1.35	1.12	436-1023-2-ND	1,000	447.00	DN1047-100M
47	±20%	1.10	0.17				436-1025-1-ND	1.49	1.35	1.12	436-1025-2-ND	1,000	447.00	DN1047-470M
100	±10%	0.74	0.34				436-1024-1-ND	1.49	1.35	1.12	436-1024-2-ND	1,000	447.00	DN1047-101K
470	±10%	0.35	1.53				436-1026-1-ND	1.49	1.35	1.12	436-1026-2-ND	1,000	447.00	DN1047-471K
DN1058 Series														
10	±20%	2.60	0.06	10.40	9.40	5.80	436-1027-1-ND	1.49	1.35	1.12	436-1027-2-ND	800	357.60	DN1058-100M
47	±10%	1.28	0.17				436-1029-1-ND	1.49	1.35	1.12	436-1029-2-ND	800	357.60	DN1058-470K
100	±10%	0.97	0.35				436-1028-1-ND	1.49	1.35	1.12	436-1028-2-ND	800	357.60	DN1058-101K
470	±10%	0.42	1.48				436-1030-1-ND	1.49	1.35	1.12	436-1030-2-ND	800	357.60	DN1058-471K

Unshielded Drum Core – DU Series



Features:

- Drop in replacements for industry prevalent competitor series
- High energy storage and low resistance
- Ideal for DC-DC buck or boost conversion
- Robust temperature deflection to prevent damage during solder reflow

Specification:

- Operating Temperature Rating: -40°C to +85°C

Note (A): Nominal Inductance Tested at 100kHz, 100mVrms at 20°C

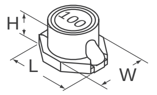
Note (B): DC current applied to produce a typical 10% drop in inductance

Note (C): DC resistance is maximum at 20°C

Inductance µH$^{(A)}$	Tol.	ISAT A$^{(B)}$	DCR Max. Ω$^{(C)}$	Dimensions (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	CoEv Part No.
DU6629 Series														
1.0	±20%	2.90	0.050	6.60	4.50	2.92	436-1089-1-ND	1.36	1.22	1.02	436-1089-2-ND	2,500	407.00/M	DU6629-1R0M
4.7		1.50	0.090				436-1092-1-ND	1.36	1.22	1.02	436-1092-2-ND	2,500	407.00/M	DU6629-4R7M
10		1.10	0.160				436-1086-1-ND	1.36	1.22	1.02	436-1086-2-ND	2,500	407.00/M	DU6629-100M
47		0.50	0.640				436-1090-1-ND	1.36	1.22	1.02	436-1090-2-ND	2,500	407.00/M	DU6629-470M
100		0.31	1.270				436-1087-1-ND	1.36	1.22	1.02	436-1087-2-ND	2,500	407.00/M	DU6629-101M
470		0.16	6.600				436-1091-1-ND	1.36	1.22	1.02	436-1091-2-ND	2,500	407.00/M	DU6629-471M
1,000		0.10	13.800				436-1088-1-ND	1.36	1.22	1.02	436-1088-2-ND	2,500	407.00/M	DU6629-102M
DU1330 Series														
10	±20%	2.40	0.110	12.95	9.40	3.30	436-1093-1-ND	1.53	1.38	1.15	436-1093-2-ND	1,000	458.00	DU1330-100M
47		1.00	0.390				436-1096-1-ND	1.53	1.38	1.15	436-1096-2-ND	1,000	458.00	DU1330-470M
100		0.70	0.840				436-1094-1-ND	1.53	1.38	1.15	436-1094-2-ND	1,000	458.00	DU1330-101M
470		0.30	4.000				436-1097-1-ND	1.53	1.38	1.15	436-1097-2-ND	1,000	458.00	DU1330-471M
1,000		0.10	8.400				436-1095-1-ND	1.53	1.38	1.15	436-1095-2-ND	1,000	458.00	DU1330-102M
DU1352 Series														
1.0	±20%	9.00	0.0092	12.95	9.40	5.21	436-1101-1-ND	1.51	1.36	1.14	436-1101-2-ND	700	317.10	DU1352-1R0M
4.7		5.40	0.0184				436-1104-1-ND	1.51	1.36	1.14	436-1104-2-ND	700	317.10	DU1352-4R7M
10		3.80	0.0380				436-1098-1-ND	1.51	1.36	1.14	436-1098-2-ND	700	317.10	DU1352-100M
47		1.60	0.1400				436-1102-1-ND	1.51	1.36	1.14	436-1102-2-ND	700	317.10	DU1352-470M
100		1.20	0.2800				436-1099-1-ND	1.51	1.36	1.14	436-1099-2-ND	700	317.10	DU1352-101M
470		0.50	1.2700				436-1103-1-ND	1.51	1.36	1.14	436-1103-2-ND	700	317.10	DU1352-471M
1,000		0.30	3.0000				436-1100-1-ND	1.51	1.36	1.14	436-1100-2-ND	700	317.10	DU1352-102M
DU1311 Series														
10	±20%	8.00	0.040	12.95	9.40	11.43	436-1105-1-ND	1.51	1.36	1.14	436-1105-2-ND	250	113.25	DU1311-100M
47		3.80	0.110				436-1108-1-ND	1.51	1.36	1.14	436-1108-2-ND	250	113.25	DU1311-470M
100		2.50	0.220				436-1106-1-ND	1.51	1.36	1.14	436-1106-2-ND	250	113.25	DU1311-101M
470		1.00	0.950				436-1109-1-ND	1.51	1.36	1.14	436-1109-2-ND	250	113.25	DU1311-471M
1,000		0.80	2.000				436-1107-1-ND	1.51	1.36	1.14	436-1107-2-ND	250	113.25	DU1311-102M
DU1971 Series														
1.0	±20%	20.00	0.009	18.54	15.24	7.40	436-1113-1-ND	1.77	1.59	1.33	436-1113-2-ND	250	132.50	DU1971-1R0M
10		10.00	0.031				436-1110-1-ND	1.77	1.59	1.33	436-1110-2-ND	250	132.50	DU1971-100M
47		4.50	0.086				436-1114-1-ND	1.77	1.59	1.33	436-1114-2-ND	250	132.50	DU1971-470M
100		3.00	0.190				436-1111-1-ND	1.77	1.59	1.33	436-1111-2-ND	250	132.50	DU1971-101M
470		1.40	0.850				436-1115-1-ND	1.77	1.59	1.33	436-1115-2-ND	250	132.50	DU1971-471M
1,000		1.00	1.800				436-1112-1-ND	1.77	1.59	1.33	436-1112-2-ND	250	132.50	DU1971-102M

(Continued)

Shielded Drum Core – DS Series



Features:

- Drop-in replacements for industry prevalent competitor series
- Ideal for DC-DC buck or boost conversion
- High energy storage and low resistance
- Robust temperature deflection to prevent damage during solder reflow

Specification:

- Operating Temperature Rating: -40°C to +85°C

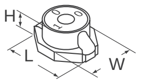
Note (A): Nominal Inductance Tested at 100kHz, 100mVrms at 20°C

Note (B): DC current applied to produce a typical 10% drop in inductance

Note (C): DC resistance is maximum at 20°C

Inductance µH$^{(A)}$	Tol.	ISAT A$^{(B)}$	DCR Max. Ω$^{(C)}$	Dimensions (mm)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		CoEv Part No.
				L	W	H		1	10	100		Size	Pricing	
DS6630 Series														
1.0	±20%	3.00	0.040	6.60	4.50	2.92	436-1064-1-ND	1.48	1.33	1.11	436-1064-2-ND	2,500	443.00/M	DS6630-1R0M
4.7		1.40	0.060				436-1068-1-ND	1.48	1.33	1.11	436-1068-2-ND	2,500	443.00/M	DS6630-4R7M
10		1.0	0.075				436-1060-1-ND	1.48	1.33	1.11	436-1060-2-ND	2,500	443.00/M	DS6630-100M
47		0.50	0.230				436-1065-1-ND	1.48	1.33	1.11	436-1065-2-ND	2,500	443.00/M	DS6630-470M
100		0.30	0.480				436-1061-1-ND	1.48	1.33	1.11	436-1061-2-ND	2,500	443.00/M	DS6630-101M
470		0.19	1.800				436-1066-1-ND	1.48	1.33	1.11	436-1066-2-ND	2,500	443.00/M	DS6630-471M
1,000		0.15	3.400				436-1062-1-ND	1.48	1.33	1.11	436-1062-2-ND	2,500	443.00/M	DS6630-102M
4,700		0.06	25.20				436-1067-1-ND	1.48	1.33	1.11	436-1067-2-ND	2,500	443.00/M	DS6630-472M
10,000		0.02	39.60				436-1063-1-ND	1.48	1.33	1.11	436-1063-2-ND	2,500	443.00/M	DS6630-103M
DS1137 Series														
10	±20%	1.20	0.165	10.70	8.20	3.70	436-1069-1-ND	1.84	1.66	1.38	436-1069-2-ND	1,000	551.00	DS1137-100M
47		0.55	0.580				436-1070-1-ND	1.84	1.66	1.38	436-1070-2-ND	1,000	551.00	DS1137-470M
DS1145 Series														
10	±20%	1.50	0.100	10.70	8.20	4.50	436-1071-1-ND	1.84	1.66	1.38	436-1071-2-ND	1,000	551.00	DS1145-100M
47		0.75	0.425				436-1073-1-ND	1.84	1.66	1.38	436-1073-2-ND	1,000	551.00	DS1145-470M
100		0.50	1.050				436-1072-1-ND	1.84	1.66	1.38	436-1072-2-ND	1,000	551.00	DS1145-101M
DS1351 Series														
1.0	±20%	5.80	0.021	12.95	10.10	5.10	436-1075-1-ND	1.50	1.35	1.13	436-1075-2-ND	750	337.50	DS1351-1R0M
4.7		2.80	0.054				436-1077-1-ND	1.50	1.35	1.13	436-1077-2-ND	750	337.50	DS1351-4R7M
10		2.40	0.101				436-1074-1-ND	1.50	1.35	1.13	436-1074-2-ND	750	337.50	DS1351-100M
47		1.00	0.472				436-1076-1-ND	1.50	1.35	1.13	436-1076-2-ND	750	337.50	DS1351-470M
DS1976 Series														
10	±20%	7.00	0.040	18.54	15.25	7.62	436-1078-1-ND	1.87	1.68	1.40	436-1078-2-ND	250	140.00	DS1976-100M
47		4.00	0.097				436-1081-1-ND	1.87	1.68	1.40	436-1081-2-ND	250	140.00	DS1976-470M
100		2.40	0.207				436-1079-1-ND	1.87	1.68	1.40	436-1079-2-ND	250	140.00	DS1976-101M
470		1.10	1.080				436-1082-1-ND	1.87	1.68	1.40	436-1082-2-ND	250	140.00	DS1976-471M
1,000		0.80	2.010				436-1080-1-ND	1.87	1.68	1.40	436-1080-2-ND	250	140.00	DS1976-102M

Shielded Drum Core – DT Series

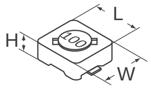


Features: • High energy storage and low resistance • Ideal for DC-DC buck or boost conversion • Low temperature rise over inductance range
Specification: • Operating Temperature Rating: -40°C to +85°C

Note (A): Nominal Inductance Tested at 100kHz, 100mVrms at 20°C.
Note (B): Average maximum allowable current. Spikes as high as 2X the current rating.
Note (C): DC resistance is maximum at 20°C

Inductance µH$^{(A)}$	Tol.	ISAT A$^{(B)}$	DCR Max. Ω$^{(C)}$	Dimensions (mm)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		CoEv Part No.
				L	W	H		1	10	100		Size	Pricing	
DT0703 Series														
1.0	±20%	2.00	0.045	6.60	4.50	2.92	436-1083-1-ND	2.08	1.88	1.56	436-1083-2-ND	2,500	624.00/M	DT0703-1R0M
47		0.34	0.420				436-1084-1-ND	2.08	1.88	1.56	436-1084-2-ND	2,500	624.00/M	DT0703-470M
DT1351 Series														
10	±20%	2.00	0.055	12.95	10.10	5.10	436-1085-1-ND	2.39	2.16	1.80	436-1085-2-ND	700	501.90	DT1351-100M

Shielded Drum Core – DQ Series



Features:

- High energy storage and low resistance
- Smaller real estate than other common inductors
- Robust temperature deflection to prevent damage during solder reflow
- Highly resistive core for EMI suppression applications

Specification:

- Operating Temperature Rating: -40°C to +85°C

Note (A):
Nominal Inductance Tested at 1kHz, 1Vrms at 20°C

Note (B):
DC current applied to produce a typical 30% drop from the measured nominal inductance

Note (C):
DC resistance is maximum at 20°C

Inductance µH$^{(A)}$	Tol.	ISAT A$^{(B)}$	DCR Max. Ω$^{(C)}$	Dimensions (mm)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		CoEv Part No.
				L	W	H		1	10	100		Size	Pricing	
DQ6530 Series														
4.7	±20%	1.630	0.080	6.50	6.90	3.00	436-1034-1-ND	1.35	1.22	1.02	436-1034-2-ND	1,500	405.00/M	DQ6530-4R7M
10		1.10	0.15				436-1031-1-ND	1.35	1.22	1.02	436-1031-2-ND	1,500	405.00/M	DQ6530-100M
47		0.50	0.69				436-1033-1-ND	1.35	1.22	1.02	436-1033-2-ND	1,500	405.00/M	DQ6530-470M
100		0.34	1.39				436-1032-1-ND	1.35	1.22	1.02	436-1032-2-ND	1,500	405.00/M	DQ6530-101M
DQ6545 Series														
10	±20%	1.35	0.12	6.50	6.90	5.00	436-1035-1-ND	1.39	1.25	1.04	436-1035-2-ND	1,000	416.00	DQ6545-100M
47		0.62	0.52				436-1038-1-ND	1.39	1.25	1.04	436-1038-2-ND	1,000	416.00	DQ6545-470M
100		0.42	1.03				436-1036-1-ND	1.39	1.25	1.04	436-1036-2-ND	1,000	416.00	DQ6545-101M
470		0.20	3.93				436-1039-1-ND	1.39	1.25	1.04	436-1039-2-ND	1,000	416.00	DQ6545-471M
1,000		0.14	9.26				436-1037-1-ND	1.39	1.25	1.04	436-1037-2-ND	1,000	416.00	DQ6545-102M
DQ7534 Series														
10	±20%	1.68	0.072	7.50	7.50	3.40	436-1040-1-ND	1.34	1.21	1.01	436-1040-2-ND	1,500	401.00/M	DQ7534-100M
47		0.76	0.360				436-1042-1-ND	1.34	1.21	1.01	436-1042-2-ND	1,500	401.00/M	DQ7534-470M
100		0.50	0.790				436-1041-1-ND	1.34	1.21	1.01	436-1041-2-ND	1,500	401.00/M	DQ7534-101M
DQ7545 Series														
10	±20%	1.84	0.049	7.50	7.50	4.50	436-1043-1-ND	1.37	1.23	1.03	436-1043-2-ND	1,000	410.00	DQ7545-100M
47		0.88	0.260				436-1046-1-ND	1.37	1.23	1.03	436-1046-2-ND	1,000	410.00	DQ7545-470M
100		0.60	0.610				436-1044-1-ND	1.37	1.23	1.03	436-1044-2-ND	1,000	410.00	DQ7545-101M
470		0.26	3.010				436-1047-1-ND	1.37	1.23	1.03	436-1047-2-ND	1,000	410.00	DQ7545-471M
1,000		0.18	6.000				436-1045-1-ND	1.37	1.23	1.03	436-1045-2-ND	1,000	410.00	DQ7545-102M
DQ1260 Series														
10	±20%	4.00	0.025	12.80	12.80	6.00	436-1048-1-ND	1.63	1.47	1.22	436-1048-2-ND	650	317.20	DQ1260-100M
47		1.80	0.075				436-1051-1-ND	1.63	1.47	1.22	436-1051-2-ND	650	317.20	DQ1260-470M
100		1.30	0.160				436-1049-1-ND	1.63	1.47	1.22	436-1049-2-ND	650	317.20	DQ1260-101M
470		0.58	0.770				436-1052-1-ND	1.63	1.47	1.22	436-1052-2-ND	650	317.20	DQ1260-471M
1,000		0.40	1.530				436-1050-1-ND	1.63	1.47	1.22	436-1050-2-ND	650	317.20	DQ1260-102M
DQ1280 Series														
4.7	±20%	13.50	0.016	12.80	12.80	8.00	436-1059-1-ND	1.63	1.47	1.22	436-1059-2-ND	400	195.20	DQ1280-4R7M
10		5.40	0.022				436-1053-1-ND	1.63	1.47	1.22	436-1053-2-ND	400	195.20	DQ1280-100M
47		2.50	0.100				436-1057-1-ND	1.63	1.47	1.22	436-1057-2-ND	400	195.20	DQ1280-470M
100		1.70	0.220				436-1054-1-ND	1.63	1.47	1.22	436-1054-2-ND	400	195.20	DQ1280-101M
470		0.79	0.980				436-1058-1-ND	1.63	1.47	1.22	436-1058-2-ND	400	195.20	DQ1280-471M
1,000		0.55	1.820				436-1055-1-ND	1.63	1.47	1.22	436-1055-2-ND	400	195.20	DQ1280-102M

Panasonic

Surface Mount Inductors

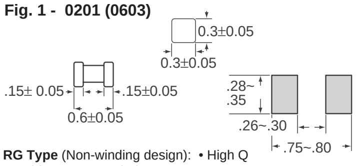
Non Wound and Wire Wound type chip inductors for automatic and high-density mounting.

Features: • High Q • Good for mounting • Wide availability range (1.0 nH to 1000 µH) • Stable L -value in any mounting direction (non winding type)

Recommended Applications: • Portable telephones, Wireless Communication equipment (W-LAN, BT), PDA, Camcorder, DSC, Various module, HIC, TV, VTR, PC peripherals

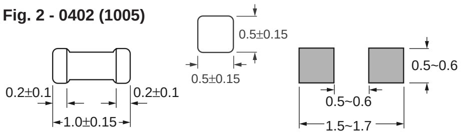
Size / Classification	Non Wound Type			Wire Wound Type					
	0201 (0603)	0402 (1005)	0603 (1608)	0402 (1005)	0603 (1608)	0805 (2012)	1008 (2520)	1210 (3225)	1812 (4532)
Non Magnetic Core	ELJRG	ELJRF	ELJRE	ELJNK	ELJNJ	ELJND	ELJNC	ELJNA	—
Regular	—	—	—	—	ELJFJ	ELJFD	ELJFC	ELJFA	ELJFB
Shield	—	—	—	—	—	—	ELJSC	ELJSA	—
High Power	—	ELJPF	ELJPE	—	—	—	ELJPC	ELJPA	ELJPB
Low DC Resistance	—	—	—	—	—	—	—	ELJEA	—

Fig. 1 - 0201 (0603)



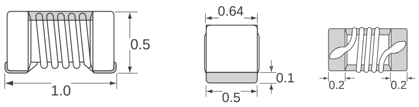
RG Type (Non-winding design): • High Q • Stable L • Non Polarity

Fig. 2 - 0402 (1005)



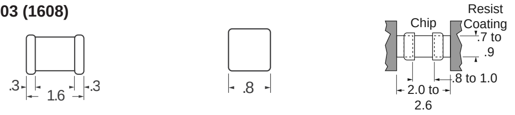
RF Type (Non-winding design): • High Q • High self-resonant frequency • Non Polarity
PF Type • High power type • Stable for power line as choke coil

Fig. 3 - 0402 (1005)



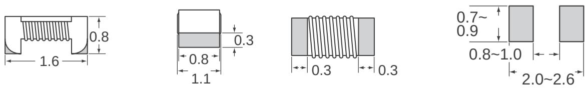
NK Type • Wire wound type • High self-resonant frequency • High Q

Fig. 4 - 0603 (1608)



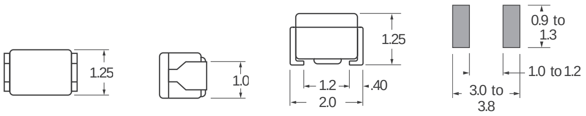
RE Type (Non-winding design): • Small size • High self-resonant frequency • Tight tolerance
PE Type (Non-winding design): • Small size • High self-resonant frequency

Fig. 5 - 0603 (1608)



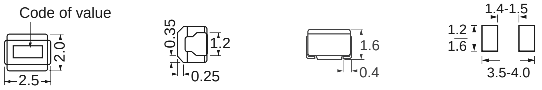
FJ Type: • Wire wound type • High Q **NJ Type:** • Wire wound type • High self-resonant frequency

Fig. 6 - 0805 (2012)



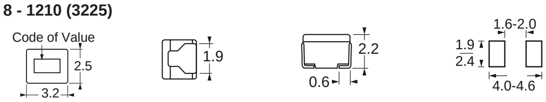
ND Type: • High Q • High self-resonant frequency **FD Type:** • High Q • Standard version of ND Type

Fig. 7 - 1008 (2520)



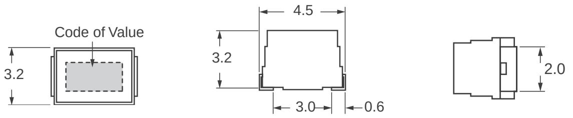
NC Type: • Low inductance, tight tolerance and small size • Suitable for high-frequency circuits • Coreless type • L is stable with respect to temperature and humidity **FC/SC Type:** • Smallest of the coil type inductors • Suitable for a variety of small processing circuits • SC Type is equipped with a magnetic shield function **PC Type:** • High rated DC current • Low DC resistance • Suitable for power circuits

Fig. 8 - 1210 (3225)



FA Type: • Chip inductor for general use • Compact size with a wide inductance range **NA Type:** • Coreless Type • L is stable with respect to temperature and humidity suitable for high-frequency circuits **SA Type:** • Use of ferrite resin giving it an additional function of magnetic shield • Compact size with high inductance **PA Type:** • High power • High rated DC current • Suitable for power line as choke coil **EA Type:** • Low DC resistance

Fig. 9 - 1812 (4532)



FB Type: • Chip inductor for general use • High inductance

Inductance	Tolerance	Q Min	Q Typ @ 800 MHz	L,Q Test freq (MHz)	S.R.F. Min (MHz)	RDC Max (Ohm)	IDC Max (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T/R Pricing 15,000	Panasonic Part No.
									1	10	100			
Fig. 1, 0201 (0603) — Type RG														
1.0nH	±0.3nH	4	—	100	20000	0.12	550	PCD1576CT-ND	.26	.22	.17	PCD1576TR-ND	91.00/M	ELJ-RG1N0DF
1.2nH	±0.3nH	4	—	100	20000	0.15	550	PCD1577CT-ND	.26	.22	.17	PCD1577TR-ND	91.00/M	ELJ-RG1N2DF
1.5nH	±0.3nH	4	—	100	20000	0.18	550	PCD1578CT-ND	.26	.22	.17	PCD1578TR-ND	91.00/M	ELJ-RG1N5DF
1.8nH	±0.3nH	4	—	100	20000	0.22	420	PCD1579CT-ND	.26	.22	.17	PCD1579TR-ND	91.00/M	ELJ-RG1N8DF
2.2nH	±0.3nH	4	—	100	13000	0.26	420	PCD1580CT-ND	.26	.22	.17	PCD1580TR-ND	91.00/M	ELJ-RG2N2DF
2.7nH	±0.3nH	4	—	100	13000	0.32	420	PCD1581CT-ND	.26	.22	.17	PCD1581TR-ND	91.00/M	ELJ-RG2N7DF
3.3nH	±0.3nH	4	—	100	10000	0.38	300	PCD1582CT-ND	.26	.22	.17	PCD1582TR-ND	91.00/M	ELJ-RG3N3DF
3.9nH	±0.3nH	4	—	100	9600	0.48	300	PCD1583CT-ND	.26	.22	.17	PCD1583TR-ND	91.00/M	ELJ-RG3N9DF
4.7nH	±0.3nH	4	—	100	8800	0.56	300	PCD1584CT-ND	.26	.22	.17	PCD1584TR-ND	91.00/M	ELJ-RG4N7DF
5.6nH	±0.3nH	4	—	100	8300	0.70	230	PCD1585CT-ND	.26	.22	.17	PCD1585TR-ND	91.00/M	ELJ-RG5N6DF
6.8nH	5%	4	—	100	7400	0.82	230	PCD1586CT-ND	.26	.22	.17	PCD1586TR-ND	91.00/M	ELJ-RG6N8JF
8.2nH	5%	4	—	100	7000	1.00	230	PCD1587CT-ND	.26	.22	.17	PCD1587TR-ND	91.00/M	ELJ-RG8N2JF
10nH	5%	4	—	100	6600	1.30	230	PCD1588CT-ND	.26	.22	.17	PCD1588TR-ND	91.00/M	ELJ-RG10NJF
12nH	5%	3	—	100	6100	1.60	190	PCD1589CT-ND	.26	.22	.17	PCD1589TR-ND	91.00/M	ELJ-RG12NJF
15nH	5%	3	—	100	5600	2.20	150	PCD1590CT-ND	.26	.22	.17	PCD1590TR-ND	91.00/M	ELJ-RG15NJF
18nH	5%	3	—	100	5400	2.80	130	PCD1591CT-ND	.26	.22	.17	PCD1591TR-ND	91.00/M	ELJ-RG18NJF
22nH	5%	3	—	100	4600	3.50	120	PCD1592CT-ND	.26	.22	.17	PCD1592TR-ND	91.00/M	ELJ-RG22NJF
27nH	5%	3	—	100	4700	4.00	110	PCD1593CT-ND	.26	.22	.17	PCD1593TR-ND	91.00/M	ELJ-RG27NJF
Inductance	**Tolerance**	**Q Min**	**Q Typ @ 800 MHz**	**L,Q Test freq (MHz)**	**S.R.F. Min (MHz)**	**RDC Max (Ohm)**	**IDC Max (mA)**	**Digi-Key Part No.**	**Cut Tape Price Each 1**	**10**	**100**	**Digi-Key Part No.**	**T/R Pricing 10,000**	**Panasonic Part No.**
Fig. 2, 0402 (1005) — Type RF														
1.0nH	±0.3nH	8	21	100	6000	0.05	400	PCD1264CT-ND†	.29	.25	.19	PCD1264TR-ND	40.00/M	ELJ-RF1N0DF
1.2nH	±0.3nH	8	21	100	6000	0.06	400	PCD1265CT-ND†	.29	.25	.19	PCD1265TR-ND	40.00/M	ELJ-RF1N2DF
1.5nH	±0.3nH	8	21	100	6000	0.07	400	PCD1266CT-ND†	.29	.25	.19	PCD1266TR-ND	40.00/M	ELJ-RF1N5DF
1.8nH	±0.3nH	8	21	100	6000	0.08	400	PCD1267CT-ND†	.29	.25	.19	PCD1267TR-ND	40.00/M	ELJ-RF1N8DF
2.2nH	±0.3nH	8	21	100	6000	0.09	400	PCD1268CT-ND†	.29	.25	.19	PCD1268TR-ND	40.00/M	ELJ-RF2N2DF
2.7nH	±0.3nH	8	21	100	5500	0.10	400	PCD1269CT-ND†	.29	.25	.19	PCD1269TR-ND	40.00/M	ELJ-RF2N7DF
3.3nH	±0.3nH	7	21	100	5500	0.12	400	PCD1270CT-ND†	.29	.25	.19	PCD1270TR-ND	40.00/M	ELJ-RF3N3DF
3.9nH	±0.3nH	7	20	100	5200	0.15	360	PCD1271CT-ND†	.29	.25	.19	PCD1271TR-ND	40.00/M	ELJ-RF3N9DF
4.7nH	±0.3nH	7	20	100	4800	0.17	360	PCD1272CT-ND†	.29	.25	.19	PCD1272TR-ND	40.00/M	ELJ-RF4N7DF
5.6nH	±0.3nH	7	20	100	4600	0.19	340	PCD1273CT-ND†	.29	.25	.19	PCD1273TR-ND	40.00/M	ELJ-RF5N6DF
6.8nH	5%	7	19	100	4000	0.30	320	PCD1274CT-ND†	.29	.25	.19	PCD1274TR-ND	40.00/M	ELJ-RF6N8JF
8.2nH	5%	7	19	100	3500	0.35	320	PCD1275CT-ND†	.29	.25	.19	PCD1275TR-ND	40.00/M	ELJ-RF8N2JF
10.0nH	5%	7	19	100	2800	0.41	320	PCD1276CT-ND†	.29	.25	.19	PCD1276TR-ND	40.00/M	ELJ-RF10NJF
12.0nH	5%	7	19	100	2800	0.45	320	PCD1277CT-ND†	.29	.25	.19	PCD1277TR-ND	40.00/M	ELJ-RF12NJF
15.0nH	5%	7	19	100	2500	0.60	240	PCD1278CT-ND†	.29	.25	.19	PCD1278TR-ND	40.00/M	ELJ-RF15NJF
18.0nH	5%	7	19	100	2200	0.70	240	PCD1279CT-ND†	.29	.25	.19	PCD1279TR-ND	40.00/M	ELJ-RF18NJF
22.0nH	5%	7	19	100	2000	0.80	200	PCD1280CT-ND†	.29	.25	.19	PCD1280TR-ND	40.00/M	ELJ-RF22NJF
27.0nH	5%	7	19	100	1800	1.20	200	PCD1281CT-ND†	.29	.25	.19	PCD1281TR-ND	40.00/M	ELJ-RF27NJF
33.0nH	5%	7	18	100	1800	1.40	170	PCD1282CT-ND†	.29	.25	.19	PCD1282TR-ND	40.00/M	ELJ-RF33NJF
39.0nH	5%	7	18	100	1800	1.70	150	PCD1283CT-ND†	.29	.25	.19	PCD1283TR-ND	40.00/M	ELJ-RF39NJF

(Continued)

Inductance	Tolerance	Q Min	Q Typ @ 800 MHz	L,Q Test freq (MHz)	S.R.F. Min (MHz)	RDC Max (Ohm)	IDC Max (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T/R Pricing 10,000	Panasonic Part No.
Fig. 2, 0402 (1005) — Type RF														
47.0nH	5%	7	—	100	1800	2.10	140	PCD1326CT-ND	.29	.25	.19	PCD1326TR-ND	40.00/M	ELJ-RF47NJF
56.0nH	5%	7	—	100	1500	2.50	130	PCD1327CT-ND	.72	.60	.47	PCD1327TR-ND	40.00/M	ELJ-RF56NJF
68.0nH	5%	7	—	100	1500	4.00	120	PCD1328CT-ND	.72	.60	.47	PCD1328TR-ND	40.00/M	ELJ-RF68NJF
82.0nH	5%	7	—	100	1400	4.50	110	PCD1329CT-ND	.72	.60	.47	PCD1329TR-ND	40.00/M	ELJ-RF82NJF
100.0nH	5%	7	—	100	1200	5.50	90	PCD1330CT-ND	.72	.60	.47	PCD1330TR-ND	40.00/M	ELJ-RFR10JF
† **PCD3-KIT-ND** ***Digi-Key® RF Surface Mount Inductors Kit*** 10 Each of Values Denoted (200 Total Pieces)........ **$69.95**														
Fig. 2, 0402 (1005) — Type PF														
2.2nH	±0.3nH	7	—	100	5300	0.04	1900	PCD1539CT-ND	.83	.69	.54	PCD1539TR-ND	124.50/M	ELJ-PF2N2DF
2.7nH	±0.3nH	7	—	100	5300	0.05	1800	PCD1540CT-ND	.83	.69	.54	PCD1540TR-ND	124.50/M	ELJ-PF2N7DF
3.3nH	±0.3nH	7	—	100	5000	0.07	1500	PCD1541CT-ND	.83	.69	.54	PCD1541TR-ND	124.50/M	ELJ-PF3N3DF
3.9nH	±0.3nH	7	—	100	4800	0.08	1400	PCD1542CT-ND	.83	.69	.54	PCD1542TR-ND	124.50/M	ELJ-PF3N9DF
4.7nH	±0.3nH	7	—	100	4600	0.10	1300	PCD1543CT-ND	.83	.69	.54	PCD1543TR-ND	124.50/M	ELJ-PF4N7DF
5.6nH	±0.3nH	7	—	100	4200	0.12	1200	PCD1544CT-ND	.83	.69	.54	PCD1544TR-ND	124.50/M	ELJ-PF5N6DF
6.8nH	5%	7	—	100	4000	0.16	1100	PCD1545CT-ND	.83	.69	.54	PCD1545TR-ND	124.50/M	ELJ-PF6N8JF
8.2nH	5%	7	—	100	3700	0.21	900	PCD1546CT-ND	.83	.69	.54	PCD1546TR-ND	124.50/M	ELJ-PF8N2JF
10.0nH	5%	7	—	100	3200	0.26	750	PCD1547CT-ND	.83	.69	.54	PCD1547TR-ND	124.50/M	ELJ-PF10NJF
Fig. 3, 0402 (1005) — Type NK (3% Tolerance)														
6.8nH	± 3%	26	—	250	6500	0.09	750	PCD1622CT-ND	.62	.52	.41	PCD1622TR-ND	219.00/M	ELJ-NK6N8AF
8.2nH	± 3%	26	—	250	6500	0.12	680	PCD1623CT-ND	.62	.52	.41	PCD1623TR-ND	219.00/M	ELJ-NK8N2AF
10nH	± 3%	26	—	250	5500	0.14	640	PCD1624CT-ND	.62	.52	.41	PCD1624TR-ND	219.00/M	ELJ-NK10NAF
12nH	± 3%	30	—	250	5500	0.14	640	PCD1625CT-ND	.62	.52	.41	PCD1625TR-ND	219.00/M	ELJ-NK12NAF
15nH	± 3%	30	—	250	5200	0.16	560	PCD1626CT-ND	.62	.52	.41	PCD1626TR-ND	219.00/M	ELJ-NK15NAF
18nH	± 3%	27	—	250	4800	0.27	430	PCD1627CT-ND	.62	.52	.41	PCD1627TR-ND	219.00/M	ELJ-NK18NAF
22nH	± 3%	27	—	250	4100	0.30	410	PCD1628CT-ND	.62	.52	.41	PCD1628TR-ND	219.00/M	ELJ-NK22NAF
27nH	± 3%	27	—	250	4000	0.47	350	PCD1629CT-ND	.62	.52	.41	PCD1629TR-ND	219.00/M	ELJ-NK27NAF
33nH	± 3%	27	—	250	3500	0.53	310	PCD1630CT-ND	.62	.52	.41	PCD1630TR-ND	219.00/M	ELJ-NK33NAF
39nH	± 3%	27	—	250	3200	0.70	270	PCD1631CT-ND	.62	.52	.41	PCD1631TR-ND	219.00/M	ELJ-NK39NAF
47nH	± 3%	25	—	200	3000	1.05	220	PCD1632CT-ND	.62	.52	.41	PCD1632TR-ND	219.00/M	ELJ-NK47NAF
56nH	± 3%	25	—	200	2800	1.10	210	PCD1633CT-ND	.62	.52	.41	PCD1633TR-ND	219.00/M	ELJ-NK56NAF
Fig. 3, 0402 (1005) — Type NK (5% Tolerance)														
6.8nH	± 5%	26	—	250	6500	0.09	750	PCD1610CT-ND	.50	.41	.33	PCD1610TR-ND	175.00/M	ELJ-NK6N8JF
8.2nH	± 5%	26	—	250	6500	0.12	680	PCD1611CT-ND	.50	.41	.33	PCD1611TR-ND	175.00/M	ELJ-NK8N2JF
10nH	± 5%	26	—	250	5500	0.14	640	PCD1612CT-ND	.50	.41	.33	PCD1612TR-ND	175.00/M	ELJ-NK10NJF
12nH	± 5%	30	—	250	5500	0.14	640	PCD1613CT-ND	.50	.41	.33	PCD1613TR-ND	175.00/M	ELJ-NK12NJF
15nH	± 5%	30	—	250	5200	0.16	560	PCD1614CT-ND	.50	.41	.33	PCD1614TR-ND	175.00/M	ELJ-NK15NJF
18nH	± 5%	27	—	250	4800	0.27	430	PCD1615CT-ND	.50	.41	.33	PCD1615TR-ND	175.00/M	ELJ-NK18NJF
22nH	± 5%	27	—	250	4100	0.30	410	PCD1616CT-ND	.50	.41	.33	PCD1616TR-ND	175.00/M	ELJ-NK22NJF
27nH	± 5%	27	—	250	4000	0.47	350	PCD1617CT-ND	.50	.41	.33	PCD1617TR-ND	175.00/M	ELJ-NK27NJF
33nH	± 5%	27	—	250	3500	0.53	310	PCD1618CT-ND	.50	.41	.33	PCD1618TR-ND	175.00/M	ELJ-NK33NJF
39nH	± 5%	27	—	250	3200	0.70	270	PCD1619CT-ND	.50	.41	.33	PCD1619TR-ND	175.00/M	ELJ-NK39NJF
47nH	± 5%	25	—	200	3000	1.05	220	PCD1620CT-ND	.50	.41	.33	PCD1620TR-ND	175.00/M	ELJ-NK47NJF
56nH	± 5%	25	—	200	2800	1.10	210	PCD1621CT-ND	.50	.41	.33	PCD1621TR-ND	175.00/M	ELJ-NK56NJF
Inductance	**Tolerance**	**Q Min**	**Q Typ @ 800 MHz**	**L,Q Test freq (MHz)**	**S.R.F. Min (MHz)**	**RDC Max (Ohm)**	**IDC Max (mA)**	**Digi-Key Part No.**	**Cut Tape Price Each 1**	**10**	**100**	**Digi-Key Part No.**	**T/R Pricing 3,000**	**Panasonic Part No.**
Fig. 4, 0603 (1608) — Type RE (2% Tolerance)														
1.5nH	±0.2nH	8	47	100	6000	0.07	500	PCD1284CT-ND	1.03	.86	.67	PCD1284TR-ND	52.50/M	ELJ-RE1N5ZF2
1.8nH	±0.2nH	8	45	100	6000	0.08	500	PCD1285CT-ND	1.03	.86	.67	PCD1285TR-ND	52.50/M	ELJ-RE1N8ZF2
2.2nH	±0.2nH	8	35	100	6000	0.09	500	PCD1286CT-ND	1.03	.86	.67	PCD1286TR-ND	52.50/M	ELJ-RE2N2ZF2
2.7nH	±0.2nH	8	35	100	6000	0.10	500	PCD1287CT-ND	1.03	.86	.67	PCD1287TR-ND	52.50/M	ELJ-RE2N7ZF2
3.3nH	±0.2nH	9	35	100	5500	0.12	500	PCD1288CT-ND	1.03	.86	.67	PCD1288TR-ND	52.50/M	ELJ-RE3N3ZF2
3.9nH	±0.2nH	9	36	100	5500	0.15	450	PCD1289CT-ND	1.03	.86	.67	PCD1289TR-ND	52.50/M	ELJ-RE3N9ZF2
4.7nH	±0.2nH	9	36	100	4800	0.17	450	PCD1290CT-ND	1.03	.86	.67	PCD1290TR-ND	52.50/M	ELJ-RE4N7ZF2
5.6nH	±0.2nH	9	36	100	4600	0.18	430	PCD1291CT-ND	1.03	.86	.67	PCD1291TR-ND	52.50/M	ELJ-RE5N6ZF2
6.8nH	±0.2nH	9	36	100	3550	0.20	430	PCD1292CT-ND	1.03	.86	.67	PCD1292TR-ND	52.50/M	ELJ-RE6N8ZF2
8.2nH	±0.2nH	9	36	100	3500	0.28	400	PCD1293CT-ND	1.03	.86	.67	PCD1293TR-ND	52.50/M	ELJ-RE8N2ZF2
10nH	2%	10	37	100	2800	0.32	400	PCD1294CT-ND	1.03	.86	.67	PCD1294TR-ND	52.50/M	ELJ-RE10NGF2
12nH	2%	10	37	100	2800	0.35	400	PCD1295CT-ND	1.03	.86	.67	PCD1295TR-ND	52.50/M	ELJ-RE12NGF2
15nH	2%	10	38	100	2500	0.41	350	PCD1296CT-ND	1.03	.86	.67	PCD1296TR-ND	52.50/M	ELJ-RE15NGF2
18nH	2%	10	39	100	2300	0.45	350	PCD1297CT-ND	1.03	.86	.67	PCD1297TR-ND	52.50/M	ELJ-RE18NGF2
22nH	2%	10	40	100	2000	0.50	300	PCD1298CT-ND	1.03	.86	.67	PCD1298TR-ND	52.50/M	ELJ-RE22NGF2
27nH	2%	10	41	100	2000	0.55	300	PCD1299CT-ND	1.03	.86	.67	PCD1299TR-ND	52.50/M	ELJ-RE27NGF2
33nH	2%	10	40	100	1800	0.60	300	PCD1300CT-ND	1.03	.86	.67	PCD1300TR-ND	52.50/M	ELJ-RE33NGF2
39nH	2%	11	39	100	1800	0.80	300	PCD1301CT-ND	1.03	.86	.67	PCD1301TR-ND	52.50/M	ELJ-RE39NGF2
47nH	2%	11	38	100	1800	0.95	250	PCD1302CT-ND	1.03	.86	.67	PCD1302TR-ND	52.50/M	ELJ-RE47NGF2
56nH	2%	12	35	100	1800	1.2	250	PCD1303CT-ND	1.03	.86	.67	PCD1303TR-ND	52.50/M	ELJ-RE56NGF3
68nH	2%	12	35	100	1500	1.3	250	PCD1304CT-ND	1.03	.86	.67	PCD1304TR-ND	52.50/M	ELJ-RE68NGF3
82nH	2%	12	33	100	1500	1.5	250	PCD1305CT-ND	1.03	.86	.67	PCD1305TR-ND	52.50/M	ELJ-RE82NGF3
100nH	2%	12	30	100	1300	1.8	200	PCD1306CT-ND	1.03	.86	.67	PCD1306TR-ND	52.50/M	ELJ-RER10GF3
PCD4-KIT-ND ***Digi-Key® RE (2% Tol.) Surface Mount Inductors Kit*** 10 Each of all 23 Values (230 Total)........ **$79.95**														
Fig. 4, 0603 (1608) — Type RE (5% Tolerance)														
1.5nH	±0.3nH	8	47	100	6000	0.07	500	PCD1196CT-ND‡	.28	.23	.19	PCD1196TR-ND	40.00/M	ELJ-RE1N5DF2
1.8nH	±0.3nH	8	45	100	6000	0.08	500	PCD1197CT-ND‡	.28	.23	.19	PCD1197TR-ND	40.00/M	ELJ-RE1N8DF2
2.2nH	±0.3nH	8	35	100	6000	0.09	500	PCD1143CT-ND‡	.28	.23	.19	PCD1143TR-ND	40.00/M	ELJ-RE2N2DF2
2.7nH	±0.3nH	8	35	100	6000	0.10	500	PCD1144CT-ND‡	.28	.23	.19	PCD1144TR-ND	40.00/M	ELJ-RE2N7DF2
3.3nH	±0.3nH	9	35	100	5500	0.12	500	PCD1145CT-ND‡	.28	.23	.19	PCD1145TR-ND	40.00/M	ELJ-RE3N3DF2
3.9nH	5%	9	36	100	5500	0.15	450	PCD1146CT-ND‡	.28	.23	.19	PCD1146TR-ND	40.00/M	ELJ-RE3N9JF2
4.7nH	5%	9	36	100	4800	0.17	450	PCD1147CT-ND‡	.28	.23	.19	PCD1147TR-ND	40.00/M	ELJ-RE4N7JF2
5.6nH	5%	9	36	100	4600	0.18	430	PCD1148CT-ND‡	.28	.23	.19	PCD1148TR-ND	40.00/M	ELJ-RE5N6JF2
6.8nH	5%	9	36	100	3550	0.20	430	PCD1149CT-ND‡	.28	.23	.19	PCD1149TR-ND	40.00/M	ELJ-RE6N8JF2
8.2nH	5%	9	36	100	3500	0.28	400	PCD1150CT-ND‡	.28	.23	.19	PCD1150TR-ND	40.00/M	ELJ-RE8N2JF2
10nH	5%	10	37	100	2800	0.32	400	PCD1151CT-ND‡	.28	.23	.19	PCD1151TR-ND	40.00/M	ELJ-RE10NJF2
12nH	5%	10	37	100	2800	0.35	400	PCD1152CT-ND‡	.28	.23	.19	PCD1152TR-ND	40.00/M	ELJ-RE12NJF2
15nH	5%	10	38	100	2500	0.41	350	PCD1153CT-ND‡	.28	.23	.19	PCD1153TR-ND	40.00/M	ELJ-RE15NJF2
18nH	5%	10	39	100	2300	0.45	350	PCD1154CT-ND‡	.28	.23	.19	PCD1154TR-ND	40.00/M	ELJ-RE18NJF2
22nH	5%	10	40	100	2000	0.50	300	PCD1155CT-ND‡	.28	.23	.19	PCD1155TR-ND	40.00/M	ELJ-RE22NJF2
27nH	5%	10	41	100	2000	0.55	300	PCD1156CT-ND‡	.28	.23	.19	PCD1156TR-ND	40.00/M	ELJ-RE27NJF2
33nH	5%	10	40	100	1800	0.60	300	PCD1157CT-ND‡	.28	.23	.19	PCD1157TR-ND	40.00/M	ELJ-RE33NJF2
39nH	5%	11	39	100	1800	0.80	300	PCD1158CT-ND‡	.28	.23	.19	PCD1158TR-ND	40.00/M	ELJ-RE39NJF2
47nH	5%	11	38	100	1800	0.95	250	PCD1159CT-ND‡	.28	.23	.19	PCD1159TR-ND	40.00/M	ELJ-RE47NJF2
56nH	5%	12	35	100	1800	1.20	250	PCD1198CT-ND‡	.28	.23	.19	PCD1198TR-ND	40.00/M	ELJ-RE56NJF3
68nH	5%	12	35	100	1500	1.30	250	PCD1199CT-ND‡	.28	.23	.19	PCD1199TR-ND	40.00/M	ELJ-RE68NJF3
82nH	5%	12	33	100	1500	1.50	250	PCD1200CT-ND‡	.28	.23	.19	PCD1200TR-ND	40.00/M	ELJ-RE82NJF3
100nH	5%	12	30	100	1300	1.80	200	PCD1201CT-ND‡	.28	.23	.19	PCD1201TR-ND	40.00/M	ELJ-RER10JF3
120nH	5%	5	25	25.2	1200	3.00	130	PCD1322CT-ND	1.25	1.03	.81	PCD1322TR-ND	40.00/M	ELJ-RER12JF3
150nH	5%	5	22	25.2	1100	4.50	100	PCD1323CT-ND	1.25	1.03	.81	PCD1323TR-ND	40.00/M	ELJ-RER15JF3
180nH	5%	4	20	25.2	1000	6.50	80	PCD1324CT-ND	1.25	1.03	.81	PCD1324TR-ND	40.00/M	ELJ-RER18JF3
220nH	5%	4	—	25.2	900	7.50	70	PCD1325CT-ND	1.25	1.03	.81	PCD1325TR-ND	40.00/M	ELJ-RER22JF3
‡ **PCD1-KIT-ND** ***Digi-Key® RE (5% Tol.) Surface Mount Inductors Kit*** 10 Each of Denoted Values (230 Total Pieces)........ **$69.95**														

(Continued)

Panasonic Surface Mount Inductors *(Cont.)*

Inductance	Tolerance	Q Min	Q Typ @ 800 MHz	L,Q Test freq (MHz)	S.R.F. Min (MHz)	RDC Max (Ohm)	IDC Max (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T/R Pricing 3,000	Panasonic Part No.
Fig. 4 0603 (1608) — Type PE														
2.2nH	10%	8	—	100	6000	0.030	2.1	PCD1404CT-ND	.69	.58	.45	PCD1404TR-ND	125.00/M	ELJ-PE2N2KF
2.7nH	10%	8	—	100	5500	0.030	2.1	PCD1405CT-ND	.69	.58	.45	PCD1405TR-ND	125.00/M	ELJ-PE2N7KF
3.3nH	10%	8	—	100	5500	0.040	2.1	PCD1406CT-ND	.69	.58	.45	PCD1406TR-ND	125.00/M	ELJ-PE3N3KF
3.9nH	10%	9	—	100	5200	0.040	2.1	PCD1407CT-ND	.69	.58	.45	PCD1407TR-ND	125.00/M	ELJ-PE3N9KF
4.7nH	10%	9	—	100	4800	0.050	2.1	PCD1408CT-ND	.69	.58	.45	PCD1408TR-ND	125.00/M	ELJ-PE4N7KF
5.6nH	10%	9	—	100	4600	0.055	2.1	PCD1409CT-ND	.69	.58	.45	PCD1409TR-ND	125.00/M	ELJ-PE5N6KF
6.8nH	10%	9	—	100	4000	0.055	1.9	PCD1410CT-ND	.69	.58	.45	PCD1410TR-ND	125.00/M	ELJ-PE6N8KF
8.2nH	10%	9	—	100	3500	0.060	1.7	PCD1411CT-ND	.69	.58	.45	PCD1411TR-ND	125.00/M	ELJ-PE8N2KF
10nH	10%	9	—	100	2800	0.065	1.4	PCD1412CT-ND	.69	.58	.45	PCD1412TR-ND	125.00/M	ELJ-PE10NKF
12nH	10%	9	—	100	2500	0.080	1.3	PCD1413CT-ND	.69	.58	.45	PCD1413TR-ND	125.00/M	ELJ-PE12NKF
15nH	10%	9	—	100	2200	0.100	0.9	PCD1414CT-ND	.69	.58	.45	PCD1414TR-ND	125.00/M	ELJ-PE15NKF
18nH	10%	9	—	100	2000	0.120	0.8	PCD1415CT-ND	.69	.58	.45	PCD1415TR-ND	125.00/M	ELJ-PE18NKF
22nH	10%	9	—	100	1800	0.150	0.7	PCD1416CT-ND	.69	.58	.45	PCD1416TR-ND	125.00/M	ELJ-PE22NKF
Fig. 4, 0603 (1608) — Type NJ														
6.8nH	±0.5nH	35	—	250	6000	0.08	700	PCD1503CT-ND	.73	.60	.48	PCD1503TR-ND	176.63/M	ELJ-NJ6N8EF2
8.2nH	±0.5nH	35	—	250	6000	0.10	630	PCD1504CT-ND	.73	.60	.48	PCD1504TR-ND	176.63/M	ELJ-NJ8N2EF2
10nH	5%	35	—	250	6000	0.10	630	PCD1505CT-ND	.73	.60	.48	PCD1505TR-ND	176.63/M	ELJ-NJ10NJF2
12nH	5%	35	—	250	6000	0.13	550	PCD1506CT-ND	.73	.60	.48	PCD1506TR-ND	176.63/M	ELJ-NJ12NJF2
15nH	5%	40	—	250	5000	0.13	550	PCD1507CT-ND	.73	.60	.48	PCD1507TR-ND	176.63/M	ELJ-NJ15NJF2
18nH	5%	40	—	250	5000	0.15	510	PCD1508CT-ND	.73	.60	.48	PCD1508TR-ND	176.63/M	ELJ-NJ18NJF2
22nH	5%	40	—	250	4600	0.17	480	PCD1509CT-ND	.73	.60	.48	PCD1509TR-ND	176.63/M	ELJ-NJ22NJF2
27nH	5%	40	—	250	3800	0.20	440	PCD1510CT-ND	.73	.60	.48	PCD1510TR-ND	176.63/M	ELJ-NJ27NJF2
33nH	5%	40	—	250	3500	0.23	420	PCD1511CT-ND	.73	.60	.48	PCD1511TR-ND	176.63/M	ELJ-NJ33NJF2
39nH	5%	40	—	250	3200	0.25	400	PCD1512CT-ND	.73	.60	.48	PCD1512TR-ND	176.63/M	ELJ-NJ39NJF2
47nH	5%	38	—	200	3000	0.28	380	PCD1513CT-ND	.73	.60	.48	PCD1513TR-ND	176.63/M	ELJ-NJ47NJF2
56nH	5%	38	—	200	2700	0.30	360	PCD1514CT-ND	.73	.60	.48	PCD1514TR-ND	176.63/M	ELJ-NJ56NJF2
68nH	5%	38	—	200	2300	0.35	340	PCD1515CT-ND	.73	.60	.48	PCD1515TR-ND	176.63/M	ELJ-NJ68NJF2
82nH	5%	34	—	150	2200	0.48	290	PCD1516CT-ND	.73	.60	.48	PCD1516TR-ND	176.63/M	ELJ-NJ82NJF2
100nH	5%	34	—	150	2000	0.62	250	PCD1517CT-ND	.73	.60	.48	PCD1517TR-ND	176.63/M	ELJ-NJR10JF2
120nH	5%	32	—	150	1700	0.90	210	PCD1518CT-ND	.73	.60	.48	PCD1518TR-ND	176.63/M	ELJ-NJR12JF2
150nH	5%	32	—	150	1400	1.30	160	PCD1519CT-ND	.73	.60	.48	PCD1519TR-ND	176.63/M	ELJ-NJR15JF2
180nH	5%	25	—	100	1300	2.00	140	PCD1520CT-ND	.73	.60	.48	PCD1520TR-ND	176.63/M	ELJ-NJR18JF2
220nH	5%	25	—	100	1200	2.20	120	PCD1521CT-ND	.73	.60	.48	PCD1521TR-ND	176.63/M	ELJ-NJR22JF2
Fig. 5, 1608 (0603) — Type FJ														
100nH	5%	40	—	150	1600	0.30	400	PCD1594CT-ND	.60	.49	.39	PCD1594TR-ND	177.00/M	ELJ-FJR10JF2
120nH	5%	40	—	150	1500	0.37	360	PCD1595CT-ND	.60	.49	.39	PCD1595TR-ND	177.00/M	ELJ-FJR12JF2
150nH	5%	40	—	150	1350	0.60	280	PCD1596CT-ND	.60	.49	.39	PCD1596TR-ND	177.00/M	ELJ-FJR15JF2
180nH	5%	35	—	100	1250	0.68	270	PCD1597CT-ND	.60	.49	.39	PCD1597TR-ND	177.00/M	ELJ-FJR18JF2
220nH	5%	35	—	100	1150	1.06	210	PCD1598CT-ND	.60	.49	.39	PCD1598TR-ND	177.00/M	ELJ-FJR22JF2
270nH	5%	35	—	100	1150	1.40	180	PCD1599CT-ND	.60	.49	.39	PCD1599TR-ND	177.00/M	ELJ-FJR27JF2
330nH	5%	35	—	100	1100	1.66	160	PCD1600CT-ND	.60	.49	.39	PCD1600TR-ND	177.00/M	ELJ-FJR33JF2
390nH	5%	35	—	100	900	2.25	140	PCD1601CT-ND	.60	.49	.39	PCD1601TR-ND	177.00/M	ELJ-FJR39JF2
100nH	2%	40	—	150	1600	0.30	400	PCD1602CT-ND	.70	.58	.46	PCD1602TR-ND	246.00/M	ELJ-FJR10GF2
120nH	2%	40	—	150	1500	0.37	360	PCD1603CT-ND	.70	.58	.46	PCD1603TR-ND	246.00/M	ELJ-FJR12GF2
150nH	2%	40	—	150	1350	0.60	280	PCD1604CT-ND	.70	.58	.46	PCD1604TR-ND	246.00/M	ELJ-FJR15GF2
180nH	2%	35	—	100	1250	0.68	270	PCD1605CT-ND	.70	.58	.46	PCD1605TR-ND	246.00/M	ELJ-FJR18GF2
220nH	2%	35	—	100	1150	1.06	210	PCD1606CT-ND	.70	.58	.46	PCD1606TR-ND	246.00/M	ELJ-FJR22GF2
270nH	2%	35	—	100	1150	1.40	180	PCD1607CT-ND	.70	.58	.46	PCD1607TR-ND	246.00/M	ELJ-FJR27GF2
330nH	2%	35	—	100	1100	1.66	160	PCD1608CT-ND	.70	.58	.46	PCD1608TR-ND	246.00/M	ELJ-FJR33GF2
390nH	2%	35	—	100	900	2.25	140	PCD1609CT-ND	.70	.58	.46	PCD1609TR-ND	246.00/M	ELJ-FJR39GF2
Fig. 6, 0805 (2012) — Type FD														
0.82µH	10%	8	—	25.2	370	1.36	190	PCD1186CT-ND	1.76	1.46	1.15	PCD1186TR-ND	548.00/M	ELJ-FDR82KF
1.0µH	10%	15	—	7.96	300	1.56	160	PCD1187CT-ND	1.76	1.46	1.15	PCD1187TR-ND	548.00/M	ELJ-FD1R0KF
1.2µH	10%	15	—	7.96	200	1.60	155	PCD1188CT-ND	1.76	1.46	1.15	PCD1188TR-ND	548.00/M	ELJ-FD1R2KF
1.5µH	10%	15	—	7.96	100	1.85	150	PCD1189CT-ND	1.76	1.46	1.15	PCD1189TR-ND	548.00/M	ELJ-FD1R5KF
1.8µH	10%	15	—	7.96	80	1.95	145	PCD1190CT-ND	1.76	1.46	1.15	PCD1190TR-ND	548.00/M	ELJ-FD1R8KF
2.2µH	10%	15	—	7.96	70	2.27	145	PCD1191CT-ND	1.76	1.46	1.15	PCD1191TR-ND	548.00/M	ELJ-FD2R2KF
2.7µH	10%	15	—	7.96	60	2.53	140	PCD1192CT-ND	1.76	1.46	1.15	PCD1192TR-ND	548.00/M	ELJ-FD2R7KF
3.3µH	10%	15	—	7.96	50	2.84	140	PCD1193CT-ND	1.76	1.46	1.15	PCD1193TR-ND	548.00/M	ELJ-FD3R3KF
3.9µH	10%	15	—	7.96	40	2.92	130	PCD1194CT-ND	1.76	1.46	1.15	PCD1194TR-ND	548.00/M	ELJ-FD3R9KF
4.7µH	10%	15	—	7.96	30	3.38	130	PCD1195CT-ND	1.76	1.46	1.15	PCD1195TR-ND	548.00/M	ELJ-FD4R7KF
Fig. 6, 0805 (2012) — Type ND														
10nH	10%	10	48	100	3300	0.14	540	PCD1160CT-ND	.83	.69	.54	PCD1160TR-ND	125.00/M	ELJ-ND10NKF
12nH	10%	10	53	100	3300	0.18	535	PCD1161CT-ND	.83	.69	.54	PCD1161TR-ND	125.00/M	ELJ-ND12NKF
12nH	5%	10	53	100	3300	0.18	535	PCD1185CT-ND	.93	.77	.61	PCD1185TR-ND	125.00/M	ELJ-ND12NJF
15nH	10%	12	55	100	3000	0.18	520	PCD1162CT-ND	.83	.69	.54	PCD1162TR-ND	125.00/M	ELJ-ND15NKF
18nH	10%	12	55	100	3000	0.22	480	PCD1163CT-ND	.83	.69	.54	PCD1163TR-ND	125.00/M	ELJ-ND18NKF
22nH	10%	15	55	100	2600	0.22	465	PCD1164CT-ND	.83	.69	.54	PCD1164TR-ND	125.00/M	ELJ-ND22NKF
27nH	10%	15	57	100	2500	0.26	455	PCD1165CT-ND	.83	.69	.54	PCD1165TR-ND	125.00/M	ELJ-ND27NKF
33nH	10%	15	58	100	2050	0.30	395	PCD1166CT-ND	.83	.69	.54	PCD1166TR-ND	125.00/M	ELJ-ND33NKF
39nH	5%	15	55	100	2000	0.31	390	PCD1167CT-ND	.93	.77	.61	PCD1167TR-ND	125.00/M	ELJ-ND39NJF
47nH	5%	15	50	100	1650	0.35	385	PCD1168CT-ND	.93	.77	.61	PCD1168TR-ND	125.00/M	ELJ-ND47NJF
56nH	5%	15	45	100	1550	0.39	360	PCD1169CT-ND	.93	.77	.61	PCD1169TR-ND	125.00/M	ELJ-ND56NJF
68nH	5%	15	44	100	1450	0.44	340	PCD1170CT-ND	.93	.77	.61	PCD1170TR-ND	125.00/M	ELJ-ND68NJF
82nH	5%	15	40	100	1100	0.48	330	PCD1171CT-ND	.93	.77	.61	PCD1171TR-ND	125.00/M	ELJ-ND82NJF
100nH	5%	8	35	25.2	800	0.66	285	PCD1172CT-ND	.93	.77	.61	PCD1172TR-ND	125.00/M	ELJ-NDR10JF
120nH	5%	8	—	25.2	600	0.76	275	PCD1173CT-ND	.93	.77	.61	PCD1173TR-ND	125.00/M	ELJ-NDR12JF
150nH	5%	10	—	25.2	600	1.13	230	PCD1174CT-ND	.93	.77	.61	PCD1174TR-ND	125.00/M	ELJ-NDR15JF
180nH	5%	10	—	25.2	600	1.24	195	PCD1175CT-ND	.93	.77	.61	PCD1175TR-ND	125.00/M	ELJ-NDR18JF
220nH	5%	10	—	25.2	500	1.41	170	PCD1176CT-ND	.93	.77	.61	PCD1176TR-ND	125.00/M	ELJ-NDR22JF
270nH	5%	10	—	25.2	300	1.50	165	PCD1177CT-ND	.93	.77	.61	PCD1177TR-ND	125.00/M	ELJ-NDR27JF
330nH	5%	10	—	25.2	200	1.66	160	PCD1178CT-ND	.93	.77	.61	PCD1178TR-ND	125.00/M	ELJ-NDR33JF
390nH	5%	10	—	25.2	150	1.82	150	PCD1179CT-ND	.93	.77	.61	PCD1179TR-ND	125.00/M	ELJ-NDR39JF
470nH	5%	10	—	25.2	150	1.97	145	PCD1180CT-ND	.93	.77	.61	PCD1180TR-ND	125.00/M	ELJ-NDR47JF
560nH	5%	10	—	25.2	100	2.07	140	PCD1181CT-ND	.93	.77	.61	PCD1181TR-ND	125.00/M	ELJ-NDR56JF
680nH	5%	10	—	25.2	100	2.32	130	PCD1182CT-ND	.93	.77	.61	PCD1182TR-ND	125.00/M	ELJ-NDR68JF
820nH	5%	10	—	25.2	80	2.60	125	PCD1183CT-ND	.93	.77	.61	PCD1183TR-ND	125.00/M	ELJ-NDR82JF
1000nH	5%	8	—	7.96	80	2.98	120	PCD1184CT-ND	.93	.77	.61	PCD1184TR-ND	125.00/M	ELJ-ND1R0JF

PCD2-KIT-ND ***Digi-Key® ND Surface Mount Inductors Kit*** 10 Each of 25 Values (PCD1185CT-ND Not Included) (250 Total Pieces) **$99.95**

(Continued)

Surface Mount Inductors *(Cont.)*

Inductance	Tolerance	Q Min	Q Typ @ 800 MHz	L,Q Test freq (MHz)	S.R.F. Min (MHz)	RDC Max (Ohm)	IDC Max (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T/R Pricing 2,000	Panasonic Part No.
Fig. 7, 1008 (2520) — Type NC														
10nH	10%	10	—	100	2500	0.32	280	PCD1037CT-ND	1.01	.83	.66	PCD1037TR-ND	99.00/M	ELJ-NC10NKF
12nH	10%	10	—	100	2200	0.34	270	PCD1038CT-ND	1.01	.83	.66	PCD1038TR-ND	99.00/M	ELJ-NC12NKF
15nH	10%	10	—	100	1800	0.38	255	PCD1039CT-ND	1.01	.83	.66	PCD1039TR-ND	99.00/M	ELJ-NC15NKF
18nH	10%	10	—	100	1550	0.40	250	PCD1040CT-ND	1.01	.83	.66	PCD1040TR-ND	99.00/M	ELJ-NC18NKF
22nH	10%	15	—	100	1350	0.43	240	PCD1041CT-ND	1.01	.83	.66	PCD1041TR-ND	99.00/M	ELJ-NC22NKF
27nH	10%	15	—	100	1150	0.47	230	PCD1042CT-ND	1.01	.83	.66	PCD1042TR-ND	99.00/M	ELJ-NC27NKF
33nH	10%	15	—	100	1000	0.51	220	PCD1043CT-ND	1.01	.83	.66	PCD1043TR-ND	99.00/M	ELJ-NC33NKF
39nH	10%	15	—	100	890	0.55	215	PCD1044CT-ND	1.01	.83	.66	PCD1044TR-ND	99.00/M	ELJ-NC39NKF
47nH	10%	15	—	100	770	0.59	205	PCD1045CT-ND	1.01	.83	.66	PCD1045TR-ND	99.00/M	ELJ-NC47NKF
56nH	10%	15	—	100	670	0.63	200	PCD1046CT-ND	1.01	.83	.66	PCD1046TR-ND	99.00/M	ELJ-NC56NKF
68nH	10%	15	—	100	590	0.68	190	PCD1047CT-ND	1.01	.83	.66	PCD1047TR-ND	99.00/M	ELJ-NC68NKF
82nH	10%	15	—	100	520	0.73	185	PCD1048CT-ND	1.01	.83	.66	PCD1048TR-ND	99.00/M	ELJ-NC82NKF
100nH	10%	10	—	25.2	460	0.80	175	PCD1049CT-ND	1.01	.83	.66	PCD1049TR-ND	99.00/M	ELJ-NCR10KF
120nH	10%	10	—	25.2	400	0.87	170	PCD1050CT-ND	1.01	.83	.66	PCD1050TR-ND	99.00/M	ELJ-NCR12KF
150nH	10%	10	—	25.2	340	0.98	160	PCD1051CT-ND	1.01	.83	.66	PCD1051TR-ND	99.00/M	ELJ-NCR15KF
180nH	10%	10	—	25.2	300	1.05	155	PCD1052CT-ND	1.01	.83	.66	PCD1052TR-ND	99.00/M	ELJ-NCR18KF
33nH	5%	15	—	100	1000	0.51	220	PCD1202CT-ND	1.13	.93	.73	PCD1202TR-ND	99.00/M	ELJ-NC33NJF
39nH	5%	15	—	100	890	0.55	215	PCD1203CT-ND	1.13	.93	.73	PCD1203TR-ND	99.00/M	ELJ-NC39NJF
47nH	5%	15	—	100	770	0.59	205	PCD1204CT-ND	1.13	.93	.73	PCD1204TR-ND	99.00/M	ELJ-NC47NJF
56nH	5%	15	—	100	670	0.63	200	PCD1205CT-ND	1.13	.93	.73	PCD1205TR-ND	99.00/M	ELJ-NC56NJF
68nH	5%	15	—	100	590	0.68	190	PCD1206CT-ND	1.13	.93	.73	PCD1206TR-ND	99.00/M	ELJ-NC68NJF
82nH	5%	15	—	100	520	0.73	185	PCD1207CT-ND	1.13	.93	.73	PCD1207TR-ND	99.00/M	ELJ-NC82NJF
100nH	5%	10	—	25.2	460	0.80	175	PCD1208CT-ND	1.13	.93	.73	PCD1208TR-ND	99.00/M	ELJ-NCR10JF
120nH	5%	10	—	25.2	400	0.87	170	PCD1209CT-ND	1.13	.93	.73	PCD1209TR-ND	99.00/M	ELJ-NCR12JF
150nH	5%	10	—	25.2	340	0.98	160	PCD1210CT-ND	1.13	.93	.73	PCD1210TR-ND	99.00/M	ELJ-NCR15JF
180nH	5%	10	—	25.2	300	1.05	155	PCD1211CT-ND	1.13	.93	.73	PCD1211TR-ND	99.00/M	ELJ-NCR18JF
220nH	5%	10	—	25.2	260	1.15	145	PCD1212CT-ND	1.13	.93	.73	PCD1212TR-ND	99.00/M	ELJ-NCR22JF
270nH	5%	10	—	25.2	230	1.25	140	PCD1213CT-ND	1.13	.93	.73	PCD1213TR-ND	99.00/M	ELJ-NCR27JF
330nH	5%	10	—	25.2	200	1.37	135	PCD1214CT-ND	1.13	.93	.73	PCD1214TR-ND	99.00/M	ELJ-NCR33JF
390nH	5%	10	—	25.2	180	1.47	130	PCD1215CT-ND	1.13	.93	.73	PCD1215TR-ND	99.00/M	ELJ-NCR39JF
470nH	5%	10	—	25.2	160	1.58	125	PCD1216CT-ND	1.13	.93	.73	PCD1216TR-ND	99.00/M	ELJ-NCR47JF
560nH	5%	10	—	25.2	145	1.70	120	PCD1217CT-ND	1.13	.93	.73	PCD1217TR-ND	99.00/M	ELJ-NCR56JF
680nH	5%	10	—	25.2	130	1.85	110	PCD1218CT-ND	1.13	.93	.73	PCD1218TR-ND	99.00/M	ELJ-NCR68JF
820nH	5%	10	—	25.2	100	2.10	100	PCD1219CT-ND	1.13	.93	.73	PCD1219TR-ND	99.00/M	ELJ-NCR82JF
Fig. 7, 1008 (2520) — Type FC														
0.22µH	20%	25	—	25.2	230	0.7	190	PCD1053CT-ND	.77	.64	.51	PCD1053TR-ND	99.00/M	ELJ-FCR22MF
0.27µH	20%	25	—	25.2	210	0.75	180	PCD1054CT-ND	.77	.64	.51	PCD1054TR-ND	99.00/M	ELJ-FCR27MF
0.33µH	20%	25	—	25.2	190	0.85	170	PCD1055CT-ND	.77	.64	.50	PCD1055TR-ND	99.00/M	ELJ-FCR33MF
0.39µH	20%	25	—	25.2	175	0.95	160	PCD1056CT-ND	.77	.64	.50	PCD1056TR-ND	99.00/M	ELJ-FCR39MF
0.47µH	20%	25	—	25.2	160	1.0	155	PCD1057CT-ND	.77	.64	.50	PCD1057TR-ND	99.00/M	ELJ-FCR47MF
0.56µH	20%	25	—	25.2	150	1.1	150	PCD1058CT-ND	.77	.64	.50	PCD1058TR-ND	99.00/M	ELJ-FCR56MF
0.68µH	20%	25	—	25.2	135	1.25	140	PCD1059CT-ND	.77	.64	.50	PCD1059TR-ND	99.00/M	ELJ-FCR68MF
0.82µH	20%	25	—	25.2	125	1.4	130	PCD1060CT-ND	.77	.64	.50	PCD1060TR-ND	99.00/M	ELJ-FCR82MF
1.0µH	10%	25	—	7.96	115	0.65	195	PCD1061CT-ND	.77	.64	.50	PCD1061TR-ND	99.00/M	ELJ-FC1R0KF
1.2µH	10%	25	—	7.96	100	0.75	180	PCD1062CT-ND	.77	.64	.50	PCD1062TR-ND	99.00/M	ELJ-FC1R2KF
1.5µH	10%	25	—	7.96	90	0.85	170	PCD1063CT-ND	.77	.64	.50	PCD1063TR-ND	99.00/M	ELJ-FC1R5KF
1.8µH	10%	25	—	7.96	85	0.95	160	PCD1064CT-ND	.77	.64	.50	PCD1064TR-ND	99.00/M	ELJ-FC1R8KF
2.2µH	10%	25	—	7.96	80	1.05	155	PCD1065CT-ND	.77	.64	.50	PCD1065TR-ND	99.00/M	ELJ-FC2R2KF
2.7µH	10%	25	—	7.96	75	1.2	145	PCD1066CT-ND	.77	.64	.51	PCD1066TR-ND	99.00/M	ELJ-FC2R7KF
3.3µH	10%	25	—	7.96	65	1.3	135	PCD1067CT-ND	.77	.64	.51	PCD1067TR-ND	99.00/M	ELJ-FC3R3KF
3.9µH	10%	25	—	7.96	60	1.4	130	PCD1068CT-ND	.77	.64	.50	PCD1068TR-ND	99.00/M	ELJ-FC3R9KF
4.7µH	10%	25	—	7.96	55	1.55	125	PCD1069CT-ND	.77	.64	.50	PCD1069TR-ND	99.00/M	ELJ-FC4R7KF
5.6µH	10%	25	—	7.96	50	1.75	120	PCD1070CT-ND	.77	.64	.50	PCD1070TR-ND	99.00/M	ELJ-FC5R6KF
6.8µH	10%	25	—	7.96	45	1.95	115	PCD1071CT-ND	.77	.64	.50	PCD1071TR-ND	99.00/M	ELJ-FC6R8KF
8.2µH	10%	25	—	7.96	40	2.2	105	PCD1072CT-ND	.77	.64	.50	PCD1072TR-ND	99.00/M	ELJ-FC8R2KF
10µH	10%	25	—	2.52	32	3.5	80	PCD1073CT-ND	.77	.64	.50	PCD1073TR-ND	99.00/M	ELJ-FC100KF
12µH	10%	25	—	2.52	30	3.8	75	PCD1074CT-ND	.77	.64	.50	PCD1074TR-ND	99.00/M	ELJ-FC120KF
15µH	10%	25	—	2.52	28	4.4	70	PCD1075CT-ND	.77	.64	.50	PCD1075TR-ND	99.00/M	ELJ-FC150KF
18µH	10%	25	—	2.52	25	5.0	65	PCD1076CT-ND	.77	.64	.51	PCD1076TR-ND	99.00/M	ELJ-FC180KF
22µH	10%	25	—	2.52	22	5.8	60	PCD1077CT-ND	.77	.64	.50	PCD1077TR-ND	99.00/M	ELJ-FC220KF
0.22µH	10%	25	—	25.2	230	0.70	190	PCD1220CT-ND	.69	.57	.45	PCD1220TR-ND	99.00/M	ELJ-FCR22KF
0.27µH	10%	25	—	25.2	210	0.75	180	PCD1221CT-ND	.86	.71	.56	PCD1221TR-ND	99.00/M	ELJ-FCR27KF
0.33µH	10%	25	—	25.2	190	0.85	170	PCD1222CT-ND	.86	.71	.56	PCD1222TR-ND	99.00/M	ELJ-FCR33KF
0.39µH	10%	25	—	25.2	175	0.95	160	PCD1223CT-ND	.86	.71	.56	PCD1223TR-ND	99.00/M	ELJ-FCR39KF
0.47µH	10%	25	—	25.2	160	1.00	155	PCD1224CT-ND	.86	.71	.56	PCD1224TR-ND	99.00/M	ELJ-FCR47KF
0.56µH	10%	25	—	25.2	150	1.10	150	PCD1225CT-ND	.86	.71	.56	PCD1225TR-ND	99.00/M	ELJ-FCR56KF
0.68µH	10%	25	—	25.2	135	1.25	140	PCD1226CT-ND	.86	.71	.56	PCD1226TR-ND	99.00/M	ELJ-FCR68KF
0.82µH	10%	25	—	25.2	125	1.40	130	PCD1227CT-ND	.86	.71	.56	PCD1227TR-ND	99.00/M	ELJ-FCR82KF
1.0µH	5%	25	—	7.96	115	0.65	195	PCD1228CT-ND	.86	.71	.56	PCD1228TR-ND	99.00/M	ELJ-FC1R0JF
1.2µH	5%	25	—	7.96	100	0.75	180	PCD1229CT-ND	.86	.71	.56	PCD1229TR-ND	99.00/M	ELJ-FC1R2JF
1.5µH	5%	25	—	7.96	90	0.85	170	PCD1230CT-ND	.86	.71	.56	PCD1230TR-ND	99.00/M	ELJ-FC1R5JF
1.8µH	5%	25	—	7.96	85	0.95	160	PCD1231CT-ND	.86	.71	.56	PCD1231TR-ND	99.00/M	ELJ-FC1R8JF
2.2µH	5%	25	—	7.96	80	1.05	155	PCD1232CT-ND	.86	.71	.56	PCD1232TR-ND	99.00/M	ELJ-FC2R2JF
2.7µH	5%	25	—	7.96	75	1.20	145	PCD1233CT-ND	.86	.71	.56	PCD1233TR-ND	99.00/M	ELJ-FC2R7JF
3.3µH	5%	25	—	7.96	65	1.30	135	PCD1234CT-ND	.86	.71	.56	PCD1234TR-ND	99.00/M	ELJ-FC3R3JF
3.9µH	5%	25	—	7.96	60	1.40	130	PCD1235CT-ND	.86	.71	.56	PCD1235TR-ND	99.00/M	ELJ-FC3R9JF
4.7µH	5%	25	—	7.96	55	1.55	125	PCD1236CT-ND	.86	.71	.56	PCD1236TR-ND	99.00/M	ELJ-FC4R7JF
5.6µH	5%	25	—	7.96	50	1.75	120	PCD1237CT-ND	.86	.71	.56	PCD1237TR-ND	99.00/M	ELJ-FC5R6JF
6.8µH	5%	25	—	7.96	45	1.95	115	PCD1238CT-ND	.86	.71	.56	PCD1238TR-ND	99.00/M	ELJ-FC6R8JF
8.2µH	5%	25	—	7.96	40	2.2	105	PCD1239CT-ND	.86	.71	.56	PCD1239TR-ND	99.00/M	ELJ-FC8R2JF
10µH	5%	25	—	2.52	32	3.5	80	PCD1240CT-ND	.86	.71	.56	PCD1240TR-ND	99.00/M	ELJ-FC100JF
12µH	5%	25	—	2.52	30	3.8	75	PCD1241CT-ND	.86	.71	.56	PCD1241TR-ND	99.00/M	ELJ-FC120JF
15µH	5%	25	—	2.52	28	4.4	70	PCD1242CT-ND	.86	.71	.56	PCD1242TR-ND	99.00/M	ELJ-FC150JF
18µH	5%	25	—	2.52	25	5.0	65	PCD1243CT-ND	.86	.71	.56	PCD1243TR-ND	99.00/M	ELJ-FC180JF
22µH	5%	25	—	2.52	22	5.8	60	PCD1244CT-ND	.86	.71	.56	PCD1244TR-ND	99.00/M	ELJ-FC220JF
27µH	5%	20	—	2.52	21	6.3	115	PCD1245CT-ND	.86	.71	.56	PCD1245TR-ND	99.00/M	ELJ-FC270JF
33µH	5%	20	—	2.52	20	7.1	110	PCD1246CT-ND	.86	.71	.56	PCD1246TR-ND	99.00/M	ELJ-FC330JF
39µH	5%	20	—	2.52	18	9.5	90	PCD1247CT-ND	.86	.71	.56	PCD1247TR-ND	99.00/M	ELJ-FC390JF
47µH	5%	20	—	2.52	17	11.00	80	PCD1248CT-ND	.86	.71	.56	PCD1248TR-ND	99.00/M	ELJ-FC470JF
56µH	5%	20	—	2.52	16	12.1	75	PCD1249CT-ND	.86	.71	.56	PCD1249TR-ND	99.00/M	ELJ-FC560JF
68µH	5%	20	—	2.52	15	16.6	70	PCD1250CT-ND	.86	.71	.56	PCD1250TR-ND	99.00/M	ELJ-FC680JF
82µH	5%	20	—	2.52	13	19.0	65	PCD1251CT-ND	.86	.71	.56	PCD1251TR-ND	99.00/M	ELJ-FC820JF
100µH	5%	15	—	0.796	12	21.0	60	PCD1252CT-ND	.86	.71	.56	PCD1252TR-ND	99.00/M	ELJ-FC101JF
Fig. 7, 1008 (2520) — Type SC														
27µH	10%	40	—	2.52	20	4.5	18	PCD1078CT-ND	.85	.71	.56	PCD1078TR-ND	99.00/M	ELJ-SC270KF
33µH	10%	40	—	2.52	18	5.2	14	PCD1079CT-ND	.85	.71	.56	PCD1079TR-ND	99.00/M	ELJ-SC330KF

(Continued)

Panasonic Surface Mount Inductors *(Cont.)*

Inductance	Tolerance	Q Min	Q Typ @ 800 MHz	L,Q Test freq (MHz)	S.R.F. Min (MHz)	RDC Max (Ohm)	IDC Max (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T/R Pricing 2,000	Panasonic Part No.
									1	10	100			
Fig. 7, 1008 (2520) — Type SC														
39µH	10%	40	—	2.52	15	5.7	13	PCD1080CT-ND	.85	.71	.56	PCD1080TR-ND	99.00/M	ELJ-SC390KF
47µH	10%	40	—	2.52	14	6.6	12	PCD1081CT-ND	.85	.71	.56	PCD1081TR-ND	99.00/M	ELJ-SC470KF
56µH	10%	40	—	2.52	13	7.1	10	PCD1082CT-ND	.85	.71	.56	PCD1082TR-ND	99.00/M	ELJ-SC560KF
68µH	10%	25	—	2.52	13	6.5	17	PCD1083CT-ND	.85	.71	.56	PCD1083TR-ND	99.00/M	ELJ-SC680KF
82µH	10%	25	—	2.52	13	7.4	14	PCD1084CT-ND	.85	.71	.56	PCD1084TR-ND	99.00/M	ELJ-SC820KF
100µH	10%	25	—	0.796	12	8.4	10	PCD1085CT-ND	.85	.71	.56	PCD1085TR-ND	99.00/M	ELJ-SC101KF
Fig. 7, 1008 (2520) — Type PC														
1.0µH	20%	10	—	7.96	95	0.45	475	PCD1086CT-ND	.86	.72	.56	PCD1086TR-ND	99.00/M	ELJ-PC1R0MF
1.5µH	20%	10	—	7.96	85	0.55	435	PCD1087CT-ND	.86	.72	.56	PCD1087TR-ND	99.00/M	ELJ-PC1R5MF
2.2µH	20%	10	—	7.96	65	0.65	390	PCD1088CT-ND	.86	.72	.56	PCD1088TR-ND	99.00/M	ELJ-PC2R2MF
3.3µH	20%	8	—	7.96	55	0.85	340	PCD1089CT-ND	.86	.72	.56	PCD1089TR-ND	99.00/M	ELJ-PC3R3MF
4.7µH	20%	8	—	7.96	43	1.2	285	PCD1090CT-ND	.86	.72	.56	PCD1090TR-ND	99.00/M	ELJ-PC4R7MF
6.8µH	10%	8	—	7.96	39	1.3	275	PCD1091CT-ND	.86	.72	.56	PCD1091TR-ND	99.00/M	ELJ-PC6R8KF
10µH	10%	20	—	2.52	32	2.2	210	PCD1092CT-ND	.86	.72	.56	PCD1092TR-ND	99.00/M	ELJ-PC100KF
12µH	10%	20	—	2.52	25	2.7	195	PCD1093CT-ND	.86	.72	.56	PCD1093TR-ND	99.00/M	ELJ-PC120KF
15µH	10%	20	—	2.52	21	3.2	175	PCD1094CT-ND	.86	.72	.56	PCD1094TR-ND	99.00/M	ELJ-PC150KF
22µH	10%	20	—	2.52	18	4.0	160	PCD1095CT-ND	.86	.72	.56	PCD1095TR-ND	99.00/M	ELJ-PC220KF
33µH	10%	20	—	2.52	16	6.5	120	PCD1096CT-ND	.86	.72	.56	PCD1096TR-ND	99.00/M	ELJ-PC330KF
Fig. 8, 1210 (3225) — Type FA														
0.22µH	20%	25	—	25.2	230	0.29	360	PCD1000CT-ND	.62	.52	.41	PCD1000TR-ND	99.00/M	ELJ-FAR22MF2
0.27µH	20%	25	—	25.2	210	0.32	345	PCD1001CT-ND	.62	.52	.41	PCD1001TR-ND	99.00/M	ELJ-FAR27MF2
0.33µH	20%	25	—	25.2	190	0.35	330	PCD1002CT-ND	.62	.52	.41	PCD1002TR-ND	99.00/M	ELJ-FAR33MF2
0.39µH	20%	25	—	25.2	175	0.39	305	PCD1003CT-ND	.62	.52	.41	PCD1003TR-ND	99.00/M	ELJ-FAR39MF2
0.47µH	20%	25	—	25.2	160	0.44	290	PCD1004CT-ND	.62	.52	.41	PCD1004TR-ND	99.00/M	ELJ-FAR47MF2
0.56µH	20%	25	—	25.2	150	0.49	275	PCD1005CT-ND	.62	.52	.41	PCD1005TR-ND	99.00/M	ELJ-FAR56MF2
0.68µH	20%	25	—	25.2	135	0.55	260	PCD1006CT-ND	.62	.52	.41	PCD1006TR-ND	99.00/M	ELJ-FAR68MF2
0.82µH	20%	25	—	25.2	125	0.61	245	PCD1007CT-ND	.62	.52	.41	PCD1007TR-ND	99.00/M	ELJ-FAR82MF2
1.0µH	10%	30	—	7.96	115	0.69	230	PCD1008CT-ND	.62	.52	.41	PCD1008TR-ND	99.00/M	ELJ-FA1R0KF2
1.2µH	10%	30	—	7.96	100	0.75	215	PCD1009CT-ND	.62	.52	.41	PCD1009TR-ND	99.00/M	ELJ-FA1R2KF2
1.5µH	10%	30	—	7.96	90	0.75	210	PCD1010CT-ND	.62	.52	.41	PCD1010TR-ND	99.00/M	ELJ-FA1R5KF
1.8µH	10%	30	—	7.96	85	0.82	200	PCD1011CT-ND	.62	.52	.41	PCD1011TR-ND	99.00/M	ELJ-FA1R8KF
2.2µH	10%	30	—	7.96	80	0.95	190	PCD1012CT-ND	.62	.52	.41	PCD1012TR-ND	99.00/M	ELJ-FA2R2KF
2.7µH	10%	30	—	7.96	75	1.1	180	PCD1013CT-ND	.62	.52	.41	PCD1013TR-ND	99.00/M	ELJ-FA2R7KF
3.3µH	10%	30	—	7.96	65	1.2	180	PCD1014CT-ND	.62	.52	.41	PCD1014TR-ND	99.00/M	ELJ-FA3R3KF
3.9µH	10%	30	—	7.96	60	1.3	175	PCD1015CT-ND	.62	.52	.41	PCD1015TR-ND	99.00/M	ELJ-FA3R9KF
4.7µH	10%	30	—	7.96	55	1.5	165	PCD1016CT-ND	.62	.52	.41	PCD1016TR-ND	99.00/M	ELJ-FA4R7KF
5.6µH	10%	30	—	7.96	50	1.6	160	PCD1261CT-ND	.62	.52	.41	PCD1261TR-ND	99.00/M	ELJ-FA5R6KF
6.8µH	10%	30	—	7.96	45	1.8	150	PCD1262CT-ND	.62	.52	.41	PCD1262TR-ND	99.00/M	ELJ-FA6R8KF
8.2µH	10%	30	—	7.96	40	2.0	140	PCD1263CT-ND	.62	.52	.41	PCD1263TR-ND	99.00/M	ELJ-FA8R2KF
10µH	10%	30	—	2.52	36	2.1	140	PCD1020CT-ND	.62	.52	.41	PCD1020TR-ND	99.00/M	ELJ-FA100KF
12µH	10%	30	—	2.52	33	2.5	125	PCD1021CT-ND	.62	.52	.41	PCD1021TR-ND	99.00/M	ELJ-FA120KF
15µH	10%	30	—	2.52	30	2.8	120	PCD1022CT-ND	.62	.52	.41	PCD1022TR-ND	99.00/M	ELJ-FA150KF
18µH	10%	30	—	2.52	27	3.3	110	PCD1023CT-ND	.62	.52	.41	PCD1023TR-ND	99.00/M	ELJ-FA180KF
22µH	10%	30	—	2.52	25	3.7	105	PCD1024CT-ND	.62	.52	.41	PCD1024TR-ND	99.00/M	ELJ-FA220KF
27µH	10%	30	—	2.52	22	5.0	90	PCD1025CT-ND	.62	.52	.41	PCD1025TR-ND	99.00/M	ELJ-FA270KF
33µH	10%	30	—	2.52	20	5.6	85	PCD1026CT-ND	.62	.52	.41	PCD1026TR-ND	99.00/M	ELJ-FA330KF
39µH	10%	30	—	2.52	20	6.4	80	PCD1027CT-ND	.62	.52	.41	PCD1027TR-ND	99.00/M	ELJ-FA390KF
47µH	10%	30	—	2.52	15	7.0	75	PCD1028CT-ND	.62	.52	.41	PCD1028TR-ND	99.00/M	ELJ-FA470KF
56µH	10%	30	—	2.52	15	8.0	70	PCD1029CT-ND	.62	.52	.41	PCD1029TR-ND	99.00/M	ELJ-FA560KF
68µH	10%	30	—	2.52	15	9.0	65	PCD1030CT-ND	.62	.52	.41	PCD1030TR-ND	99.00/M	ELJ-FA680KF
82µH	10%	30	—	2.52	11	10.0	60	PCD1031CT-ND	.62	.52	.41	PCD1031TR-ND	99.00/M	ELJ-FA820KF
100µH	10%	20	—	0.796	10	10.0	60	PCD1032CT-ND	.62	.52	.41	PCD1032TR-ND	99.00/M	ELJ-FA101KF
120µH	10%	20	—	0.796	10	11.0	55	PCD1033CT-ND	.62	.52	.41	PCD1033TR-ND	99.00/M	ELJ-FA121KF
150µH	10%	20	—	0.796	8.0	15.0	50	PCD1034CT-ND	.62	.52	.41	PCD1034TR-ND	99.00/M	ELJ-FA151KF
180µH	10%	20	—	0.796	7.0	17.0	50	PCD1035CT-ND	.62	.52	.41	PCD1035TR-ND	99.00/M	ELJ-FA181KF
220µH	10%	20	—	0.796	7.0	21.0	45	PCD1036CT-ND	.62	.52	.41	PCD1036TR-ND	99.00/M	ELJ-FA221KF
Fig. 8, 1210 (3225) — Type NA														
0.047µH	20%	10	—	100	680	0.20	450	PCD1115CT-ND	.70	.58	.46	PCD1115TR-ND	99.00/M	ELJ-NA47NMF
0.056µH	20%	10	—	100	600	0.22	420	PCD1116CT-ND	.70	.58	.46	PCD1116TR-ND	99.00/M	ELJ-NA56NMF
0.068µH	20%	10	—	100	540	0.25	400	PCD1117CT-ND	.70	.58	.46	PCD1117TR-ND	99.00/M	ELJ-NA68NMF
0.082µH	20%	10	—	100	500	0.27	380	PCD1118CT-ND	.70	.58	.46	PCD1118TR-ND	99.00/M	ELJ-NA82NMF
0.10µH	20%	10	—	100	450	0.30	360	PCD1119CT-ND	.70	.58	.46	PCD1119TR-ND	99.00/M	ELJ-NAR10MF
0.12µH	20%	10	—	25.2	400	0.67	240	PCD1120CT-ND	.70	.58	.46	PCD1120TR-ND	99.00/M	ELJ-NAR12MF
0.15µH	20%	10	—	25.2	350	0.72	230	PCD1121CT-ND	.70	.58	.46	PCD1121TR-ND	99.00/M	ELJ-NAR15MF
0.18µH	20%	10	—	25.2	320	0.81	220	PCD1122CT-ND	.70	.58	.46	PCD1122TR-ND	99.00/M	ELJ-NAR18MF
0.22µH	10%	10	—	1.0, 25.2	280	0.90	210	PCD1123CT-ND	.70	.58	.46	PCD1123TR-ND	99.00/M	ELJ-NAR22KF
0.27µH	10%	10	—	1.0, 25.2	250	1.0	200	PCD1124CT-ND	.70	.58	.46	PCD1124TR-ND	99.00/M	ELJ-NAR27KF
0.33µH	10%	10	—	1.0, 25.2	220	1.1	190	PCD1125CT-ND	.70	.58	.46	PCD1125TR-ND	99.00/M	ELJ-NAR33KF
0.39µH	10%	10	—	1.0, 25.2	200	1.2	180	PCD1126CT-ND	.70	.58	.46	PCD1126TR-ND	99.00/M	ELJ-NAR39KF
0.47µH	10%	10	—	1.0, 25.2	180	1.4	175	PCD1127CT-ND	.70	.58	.46	PCD1127TR-ND	99.00/M	ELJ-NAR47KF
0.56µH	10%	10	—	1.0, 25.2	160	1.5	170	PCD1128CT-ND	.70	.58	.46	PCD1128TR-ND	99.00/M	ELJ-NAR56KF
0.68µH	10%	10	—	1.0, 25.2	150	1.7	155	PCD1129CT-ND	.70	.58	.46	PCD1129TR-ND	99.00/M	ELJ-NAR68KF
0.82µH	10%	10	—	1.0, 25.2	135	1.9	145	PCD1130CT-ND	.70	.58	.46	PCD1130TR-ND	99.00/M	ELJ-NAR82KF
1.0µH	5%	13	—	1.0, 7.96	120	2.1	125	PCD1131CT-ND	.70	.58	.46	PCD1131TR-ND	99.00/M	ELJ-NA1ROJF
1.2µH	5%	13	—	1.0, 7.96	110	2.3	120	PCD1132CT-ND	.70	.58	.46	PCD1132TR-ND	99.00/M	ELJ-NA1R2JF
1.5µH	5%	13	—	1.0, 7.96	95	2.7	115	PCD1133CT-ND	.70	.58	.46	PCD1133TR-ND	99.00/M	ELJ-NA1R5JF
1.8µH	5%	13	—	1.0, 7.96	85	3.0	110	PCD1134CT-ND	.70	.58	.46	PCD1134TR-ND	99.00/M	ELJ-NA1R8JF
2.2µH	5%	13	—	1.0, 7.96	80	3.2	110	PCD1135CT-ND	.70	.58	.46	PCD1135TR-ND	99.00/M	ELJ-NA2R2JF
2.7µH	5%	13	—	1.0, 7.96	70	3.6	105	PCD1136CT-ND	.70	.58	.46	PCD1136TR-ND	99.00/M	ELJ-NA2R7JF
3.3µH	5%	13	—	1.0, 7.96	62	4.2	100	PCD1137CT-ND	.70	.58	.46	PCD1137TR-ND	99.00/M	ELJ-NA3R3JF
3.9µH	5%	13	—	1.0, 7.96	57	4.4	95	PCD1138CT-ND	.70	.58	.46	PCD1138TR-ND	99.00/M	ELJ-NA3R9JF
4.7µH	5%	13	—	1.0, 7.96	52	7.7	70	PCD1139CT-ND	.70	.58	.46	PCD1139TR-ND	99.00/M	ELJ-NA4R7JF
5.6µH	5%	13	—	1.0, 7.96	46	8.7	65	PCD1140CT-ND	.70	.58	.46	PCD1140TR-ND	99.00/M	ELJ-NA5R6JF
6.8µH	5%	13	—	1.0, 7.96	42	10.0	60	PCD1141CT-ND	.70	.58	.46	PCD1141TR-ND	99.00/M	ELJ-NA6R8JF
8.2µH	5%	13	—	1.0, 7.96	38	11.0	60	PCD1142CT-ND	.70	.58	.46	PCD1142TR-ND	99.00/M	ELJ-NA8R2JF
Fig. 8, 1210 (3225) — Type SA														
10µH	10%	40	—	1.0, 5.0	30	1.8	18	PCD1097CT-ND	.70	.58	.46	PCD1097TR-ND	99.00/M	ELJ-SA100KF
12µH	10%	40	—	1.0, 5.0	28	2.0	17	PCD1098CT-ND	.70	.58	.46	PCD1098TR-ND	99.00/M	ELJ-SA120KF
15µH	10%	40	—	1.0, 5.0	25	2.2	15	PCD1099CT-ND	.70	.58	.46	PCD1099TR-ND	99.00/M	ELJ-SA150KF
18µH	10%	40	—	1.0, 5.0	23	2.5	13	PCD1100CT-ND	.70	.58	.46	PCD1100TR-ND	99.00/M	ELJ-SA180KF
22µH	10%	40	—	1.0, 5.0	20	2.8	12	PCD1101CT-ND	.70	.58	.46	PCD1101TR-ND	99.00/M	ELJ-SA220KF
27µH	10%	40	—	1.0, 5.0	18	3.2	10	PCD1102CT-ND	.70	.58	.46	PCD1102TR-ND	99.00/M	ELJ-SA270KF
33µH	10%	40	—	1.0, 5.0	17	3.5	10	PCD1103CT-ND	.70	.58	.46	PCD1103TR-ND	99.00/M	ELJ-SA330KF
39µH	10%	40	—	1.0, 5.0	15	3.8	9.0	PCD1104CT-ND	.70	.58	.46	PCD1104TR-ND	99.00/M	ELJ-SA390KF
47µH	10%	40	—	1.0, 5.0	14	4.0	8.0	PCD1105CT-ND	.70	.58	.46	PCD1105TR-ND	99.00/M	ELJ-SA470KF

(Continued)

Panasonic Surface Mount Inductors *(Cont.)*

Inductance	Tolerance	Q Min	Q Typ @ 800 MHz	L,Q Test freq (MHz)	S.R.F. Min (MHz)	RDC Max (Ohm)	IDC Max (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T/R Pricing 2,000	Panasonic Part No.
Fig. 8, 1210 (3225) — Type SA														
56µH	10%	40	—	1.0, 5.0	13	4.5	7.0	PCD1106CT-ND	.70	.58	.46	PCD1106TR-ND	99.00/M	ELJ-SA560KF
68µH	10%	40	—	1.0, 1.5	12	5.0	6.0	PCD1107CT-ND	.70	.58	.46	PCD1107TR-ND	99.00/M	ELJ-SA680KF
82µH	10%	40	—	1.0, 1.5	11	6.0	6.0	PCD1108CT-ND	.70	.58	.46	PCD1108TR-ND	99.00/M	ELJ-SA820KF
100µH	10%	40	—	1.0, 1.5	10	7.0	5.0	PCD1109CT-ND	.70	.58	.46	PCD1109TR-ND	99.00/M	ELJ-SA101KF
120µH	10%	40	—	1.0, 1.5	9.0	8.0	5.0	PCD1110CT-ND	.70	.58	.46	PCD1110TR-ND	99.00/M	ELJ-SA121KF
150µH	10%	40	—	0.1, 1.5	5.0	9.0	5.0	PCD1111CT-ND	.70	.58	.46	PCD1111TR-ND	99.00/M	ELJ-SA151KF
180µH	10%	40	—	0.1, 1.5	5.0	11.0	5.0	PCD1112CT-ND	.70	.58	.46	PCD1112TR-ND	99.00/M	ELJ-SA181KF
220µH	10%	40	—	0.1, 1.5	4.0	12.0	5.0	PCD1113CT-ND	.70	.58	.46	PCD1113TR-ND	99.00/M	ELJ-SA221KF
270µH	10%	40	—	0.1, 1.5	4.0	14.0	5.0	PCD1114CT-ND	.70	.58	.46	PCD1114TR-ND	99.00/M	ELJ-SA271KF
Fig. 8, 1210 (3225) — Type EA														
1.0µH	20%	7	—	7.96	100	0.09	500	PCD1417CT-ND	.59	.49	.38	PCD1417TR-ND	125.00/M	ELJ-EA1R0MF
1.5µH	20%	7	—	7.96	80	0.10	390	PCD1418CT-ND	.59	.49	.38	PCD1418TR-ND	125.00/M	ELJ-EA1R5MF
2.2µH	20%	7	—	7.96	65	0.13	350	PCD1419CT-ND	.59	.49	.38	PCD1419TR-ND	125.00/M	ELJ-EA2R2MF
3.3µH	20%	7	—	7.96	50	0.16	270	PCD1420CT-ND	.59	.49	.38	PCD1420TR-ND	125.00/M	ELJ-EA3R3MF
4.7µH	20%	7	—	7.96	46	0.18	240	PCD1421CT-ND	.59	.49	.38	PCD1421TR-ND	125.00/M	ELJ-EA4R7MF
6.8µH	20%	7	—	7.96	36	0.25	200	PCD1422CT-ND	.59	.49	.38	PCD1422TR-ND	125.00/M	ELJ-EA6R8MF
10µH	10%	10	—	2.52	29	0.34	160	PCD1423CT-ND	.59	.49	.38	PCD1423TR-ND	125.00/M	ELJ-EA100KF
15µH	10%	10	—	2.52	25	0.42	145	PCD1424CT-ND	.59	.49	.38	PCD1424TR-ND	125.00/M	ELJ-EA150KF
22µH	10%	10	—	2.52	18	0.65	115	PCD1425CT-ND	.59	.49	.38	PCD1425TR-ND	125.00/M	ELJ-EA220KF
33µH	10%	10	—	2.52	16	0.91	95	PCD1426CT-ND	.59	.49	.38	PCD1426TR-ND	125.00/M	ELJ-EA330KF
47µH	10%	10	—	2.52	13	1.30	80	PCD1427CT-ND	.59	.49	.38	PCD1427TR-ND	125.00/M	ELJ-EA470KF
68µH	10%	10	—	2.52	10	1.95	60	PCD1428CT-ND	.59	.49	.38	PCD1428TR-ND	125.00/M	ELJ-EA680KF
100µH	10%	20	—	0.796	8.0	3.12	50	PCD1429CT-ND	.59	.49	.38	PCD1429TR-ND	125.00/M	ELJ-EA101KF
150µH	10%	20	—	0.796	7.0	4.03	45	PCD1430CT-ND	.59	.49	.38	PCD1430TR-ND	125.00/M	ELJ-EA151KF
220µH	10%	20	—	0.796	5.0	7.15	35	PCD1431CT-ND	.59	.49	.38	PCD1431TR-ND	125.00/M	ELJ-EA221KF
330µH	10%	20	—	0.796	4.0	9.23	30	PCD1432CT-ND	.59	.49	.38	PCD1432TR-ND	125.00/M	ELJ-EA331KF
Fig. 8, 1210 (3225) — Type PA														
1.0µH	20%	7	—	7.96	150	0.15	600	PCD1478CT-ND	.67	.55	.44	PCD1478TR-ND	99.00/M	ELJ-PA1R0MF
1.5µH	20%	7	—	7.96	110	0.18	550	PCD1479CT-ND	.67	.55	.44	PCD1479TR-ND	99.00/M	ELJ-PA1R5MF
2.2µH	20%	7	—	7.96	80	0.23	500	PCD1480CT-ND	.67	.55	.44	PCD1480TR-ND	99.00/M	ELJ-PA2R2MF
3.3µH	20%	7	—	7.96	58	0.28	400	PCD1481CT-ND	.67	.55	.44	PCD1481TR-ND	99.00/M	ELJ-PA3R3MF
4.7µH	20%	7	—	7.96	46	0.34	350	PCD1482CT-ND	.67	.55	.44	PCD1482TR-ND	99.00/M	ELJ-PA4R7MF
6.8µH	20%	7	—	7.96	38	0.42	300	PCD1483CT-ND	.67	.55	.44	PCD1483TR-ND	99.00/M	ELJ-PA6R8MF
10µH	10%	15	—	2.52	23	0.50	240	PCD1484CT-ND	.67	.55	.44	PCD1484TR-ND	99.00/M	ELJ-PA100KF
12µH	10%	15	—	2.52	21	0.60	230	PCD1485CT-ND	.67	.55	.44	PCD1485TR-ND	99.00/M	ELJ-PA120KF
15µH	10%	15	—	2.52	18	0.74	220	PCD1486CT-ND	.67	.55	.44	PCD1486TR-ND	99.00/M	ELJ-PA150KF
18µH	10%	15	—	2.52	17	0.90	205	PCD1487CT-ND	.67	.55	.44	PCD1487TR-ND	99.00/M	ELJ-PA180KF
22µH	10%	15	—	2.52	15	1.15	185	PCD1488CT-ND	.67	.55	.44	PCD1488TR-ND	99.00/M	ELJ-PA220KF
27µH	10%	15	—	2.52	13	1.45	165	PCD1489CT-ND	.67	.55	.44	PCD1489TR-ND	99.00/M	ELJ-PA270KF
33µH	10%	15	—	2.52	12	1.65	155	PCD1490CT-ND	.67	.55	.44	PCD1490TR-ND	99.00/M	ELJ-PA330KF
39µH	10%	15	—	2.52	11	1.90	145	PCD1491CT-ND	.67	.55	.44	PCD1491TR-ND	99.00/M	ELJ-PA390KF
47µH	10%	15	—	2.52	9.5	2.25	135	PCD1492CT-ND	.67	.55	.44	PCD1492TR-ND	99.00/M	ELJ-PA470KF
56µH	10%	15	—	2.52	8.5	3.30	110	PCD1493CT-ND	.67	.55	.44	PCD1493TR-ND	99.00/M	ELJ-PA560KF
68µH	10%	15	—	2.52	7.5	3.70	105	PCD1494CT-ND	.67	.55	.44	PCD1494TR-ND	99.00/M	ELJ-PA680KF
82µH	10%	15	—	2.52	7.0	4.20	100	PCD1495CT-ND	.67	.55	.44	PCD1495TR-ND	99.00/M	ELJ-PA820KF
100µH	10%	20	—	0.796	6.5	5.00	90	PCD1496CT-ND	.67	.55	.44	PCD1496TR-ND	99.00/M	ELJ-PA101KF
120µH	10%	20	—	0.796	6.0	7.00	75	PCD1497CT-ND	.67	.55	.44	PCD1497TR-ND	99.00/M	ELJ-PA121KF
150µH	10%	20	—	0.796	5.5	8.00	70	PCD1498CT-ND	.67	.55	.44	PCD1498TR-ND	99.00/M	ELJ-PA151KF
180µH	10%	20	—	0.796	5.0	9.50	65	PCD1499CT-ND	.67	.55	.44	PCD1499TR-ND	99.00/M	ELJ-PA181KF
220µH	10%	20	—	0.796	4.0	11.0	60	PCD1500CT-ND	.67	.55	.44	PCD1500TR-ND	99.00/M	ELJ-PA221KF
270µH	10%	20	—	0.796	3.5	14.5	55	PCD1501CT-ND	.67	.55	.44	PCD1501TR-ND	99.00/M	ELJ-PA271KF
330µH	10%	20	—	0.796	3.0	16.0	50	PCD1502CT-ND	.67	.55	.44	PCD1502TR-ND	99.00/M	ELJ-PA331KF
Inductance	**Tolerance**	**Q Min**	**Q Typ @ 800 MHz**	**L,Q Test freq (MHz)**	**S.R.F. Min (MHz)**	**RDC Max (Ohm)**	**IDC Max (mA)**	**Digi-Key Part No.**	**Cut Tape Price Each 1**	**10**	**100**	**Digi-Key Part No.**	**T/R Pricing 500**	**Panasonic Part No.**
Fig. 9, 1812 (4532) — Type FB														
.22µH	20%	30	—	25.2	230	0.30	700	PCD1433CT-ND	.88	.73	.49	PCD1433TR-ND	80.50	ELJ-FBR22MF
.27µH	20%	30	—	25.2	200	0.32	650	PCD1434CT-ND	.88	.73	.49	PCD1434TR-ND	80.50	ELJ-FBR27MF
.33µH	20%	30	—	25.2	180	0.35	630	PCD1435CT-ND	.88	.73	.49	PCD1435TR-ND	80.50	ELJ-FBR33MF
.39µH	20%	30	—	25.2	155	0.37	620	PCD1436CT-ND	.88	.73	.49	PCD1436TR-ND	80.50	ELJ-FBR39MF
.47µH	20%	30	—	25.2	135	0.40	580	PCD1437CT-ND	.88	.73	.49	PCD1437TR-ND	80.50	ELJ-FBR47MF
.56µH	20%	30	—	25.2	120	0.42	560	PCD1438CT-ND	.88	.73	.49	PCD1438TR-ND	80.50	ELJ-FBR56MF
.68µH	20%	30	—	25.2	105	0.48	530	PCD1439CT-ND	.88	.73	.49	PCD1439TR-ND	80.50	ELJ-FBR68MF
.82µH	20%	30	—	25.2	90	0.50	500	PCD1440CT-ND	.88	.73	.49	PCD1440TR-ND	80.50	ELJ-FBR82MF
1.0µH	10%	30	—	25.2	80	0.52	470	PCD1441CT-ND	.92	.76	.51	PCD1441TR-ND	80.50	ELJ-FB1R0KF
1.2µH	10%	30	—	25.2	70	0.55	460	PCD1442CT-ND	.92	.76	.51	PCD1442TR-ND	80.50	ELJ-FB1R2KF
1.5µH	10%	30	—	25.2	60	0.61	430	PCD1443CT-ND	.92	.76	.51	PCD1443TR-ND	80.50	ELJ-FB1R5KF
1.8µH	10%	30	—	25.2	50	0.61	410	PCD1444CT-ND	.92	.76	.51	PCD1444TR-ND	80.50	ELJ-FB1R8KF
2.2µH	10%	30	—	7.96	45	0.61	410	PCD1445CT-ND	.92	.76	.51	PCD1445TR-ND	80.50	ELJ-FB2R2KF
2.7µH	10%	50	—	7.96	43	0.61	400	PCD1446CT-ND	.92	.76	.51	PCD1446TR-ND	80.50	ELJ-FB2R7KF
3.3µH	10%	50	—	7.96	39	0.66	380	PCD1447CT-ND	.92	.76	.51	PCD1447TR-ND	80.50	ELJ-FB3R3KF
3.9µH	10%	50	—	7.96	36	0.74	360	PCD1448CT-ND	.92	.76	.51	PCD1448TR-ND	80.50	ELJ-FB3R9KF
4.7µH	10%	50	—	5.0	33	0.81	350	PCD1449CT-ND	.92	.76	.51	PCD1449TR-ND	80.50	ELJ-FB4R7KF
5.6µH	10%	50	—	5.0	30	0.88	330	PCD1450CT-ND	.92	.76	.51	PCD1450TR-ND	80.50	ELJ-FB5R6KF
6.8µH	10%	50	—	5.0	26	1.0	310	PCD1451CT-ND	.92	.76	.51	PCD1451TR-ND	80.50	ELJ-FB6R8KF
8.2µH	10%	50	—	5.0	24	1.6	250	PCD1452CT-ND	.92	.76	.51	PCD1452TR-ND	80.50	ELJ-FB8R2KF
10µH	5%	50	—	5.0	22	1.8	235	PCD1453CT-ND	.95	.79	.53	PCD1453TR-ND	80.50	ELJ-FB100JF
12µH	5%	50	—	5.0	20	1.9	225	PCD1454CT-ND	.95	.79	.53	PCD1454TR-ND	80.50	ELJ-FB120JF
15µH	5%	50	—	5.0	18	2.1	215	PCD1455CT-ND	.95	.79	.53	PCD1455TR-ND	80.50	ELJ-FB150JF
18µH	5%	50	—	5.0	16	2.3	205	PCD1456CT-ND	.95	.79	.53	PCD1456TR-ND	80.50	ELJ-FB180JF
22µH	5%	50	—	2.52	15	2.6	195	PCD1457CT-ND	.95	.79	.53	PCD1457TR-ND	80.50	ELJ-FB220JF
27µH	5%	50	—	2.52	13	2.9	185	PCD1458CT-ND	.95	.79	.53	PCD1458TR-ND	80.50	ELJ-FB270JF
33µH	5%	50	—	2.52	12	3.1	175	PCD1459CT-ND	.95	.79	.53	PCD1459TR-ND	80.50	ELJ-FB330JF
39µH	5%	50	—	2.52	10	3.6	165	PCD1460CT-ND	.95	.79	.53	PCD1460TR-ND	80.50	ELJ-FB390JF
47µH	5%	50	—	2.52	9.7	4.2	130	PCD1461CT-ND	.95	.79	.53	PCD1461TR-ND	80.50	ELJ-FB470JF
56µH	5%	40	—	2.52	9.0	4.7	125	PCD1462CT-ND	.95	.79	.53	PCD1462TR-ND	80.50	ELJ-FB560JF
68µH	5%	40	—	2.52	8.2	5.3	115	PCD1463CT-ND	.95	.79	.53	PCD1463TR-ND	80.50	ELJ-FB680JF
82µH	5%	40	—	2.52	7.5	5.9	110	PCD1464CT-ND	.95	.79	.53	PCD1464TR-ND	80.50	ELJ-FB820JF
100µH	5%	40	—	2.52	6.7	8.8	105	PCD1465CT-ND	.95	.79	.53	PCD1465TR-ND	80.50	ELJ-FB101JF
120µH	5%	40	—	1.5	6.1	10	100	PCD1466CT-ND	.95	.79	.53	PCD1466TR-ND	80.50	ELJ-FB121JF
150µH	5%	40	—	1.5	5.5	11	95	PCD1467CT-ND	.95	.79	.53	PCD1467TR-ND	80.50	ELJ-FB151JF
180µH	5%	40	—	1.5	5.1	13	85	PCD1468CT-ND	.95	.79	.53	PCD1468TR-ND	80.50	ELJ-FB181JF

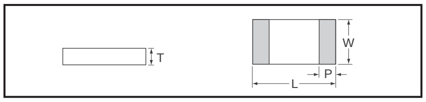
(Continued)

Panasonic Surface Mount Inductors *(Cont.)*

Inductance	Tolerance	Q Min	Q Typ @ 800 MHz	L,Q Test freq (MHz)	S.R.F. Min (MHz)	RDC Max (Ohm)	IDC Max (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T/R Pricing 500	Panasonic Part No.
Fig. 9, 1812 (4532) — Type FB														
220µH	5%	40	—	0.796	4.5	13	85	PCD1469CT-ND	.95	.79	.53	PCD1469TR-ND	80.50	ELJ-FB221JF
270µH	5%	40	—	0.796	4.1	14	80	PCD1470CT-ND	.95	.79	.53	PCD1470TR-ND	80.50	ELJ-FB271JF
330µH	5%	40	—	0.796	3.7	16	75	PCD1471CT-ND	.95	.79	.53	PCD1471TR-ND	80.50	ELJ-FB331JF
390µH	5%	40	—	0.796	3.3	19	70	PCD1472CT-ND	.95	.79	.53	PCD1472TR-ND	80.50	ELJ-FB391JF
470µH	5%	30	—	0.796	3.3	31	55	PCD1473CT-ND	.95	.79	.53	PCD1473TR-ND	80.50	ELJ-FB471JF
560µH	5%	30	—	0.796	2.7	35	50	PCD1474CT-ND	.95	.79	.53	PCD1474TR-ND	80.50	ELJ-FB561JF
680µH	5%	30	—	0.796	2.5	39	50	PCD1475CT-ND	.95	.79	.53	PCD1475TR-ND	80.50	ELJ-FB681JF
820µH	5%	30	—	0.796	2.4	45	45	PCD1476CT-ND	.95	.79	.53	PCD1476TR-ND	80.50	ELJ-FB821JF
1000µH	5%	30	—	0.796	2.1	53	40	PCD1477CT-ND	.95	.79	.53	PCD1477TR-ND	80.50	ELJ-FB102JF
Fig. 9, 1812 (4532) — Type PB														
10µH	10%	10	—	2.52	19	0.65	360	PCD1522CT-ND	1.25	1.03	.69	PCD1522TR-ND	100.00	ELJ-PB100KF
12µH	10%	10	—	2.52	17	0.70	340	PCD1523CT-ND	1.25	1.03	.69	PCD1523TR-ND	100.00	ELJ-PB120KF
15µH	10%	10	—	2.52	15	0.80	320	PCD1524CT-ND	1.25	1.03	.69	PCD1524TR-ND	100.00	ELJ-PB150KF
18µH	10%	10	—	2.52	14	0.90	310	PCD1525CT-ND	1.25	1.03	.69	PCD1525TR-ND	100.00	ELJ-PB180KF
22µH	10%	10	—	2.52	13	1.00	300	PCD1526CT-ND	1.25	1.03	.69	PCD1526TR-ND	100.00	ELJ-PB220KF
27µH	10%	10	—	2.52	11	1.20	270	PCD1527CT-ND	1.25	1.03	.69	PCD1527TR-ND	100.00	ELJ-PB270KF
33µH	10%	10	—	2.52	10	1.40	250	PCD1528CT-ND	1.25	1.03	.69	PCD1528TR-ND	100.00	ELJ-PB330KF
39µH	10%	10	—	2.52	9.5	1.60	230	PCD1529CT-ND	1.25	1.03	.69	PCD1529TR-ND	100.00	ELJ-PB390KF
47µH	10%	10	—	2.52	8.5	1.90	210	PCD1530CT-ND	1.25	1.03	.69	PCD1530TR-ND	100.00	ELJ-PB470KF
56µH	10%	10	—	2.52	8	2.20	190	PCD1531CT-ND	1.25	1.03	.69	PCD1531TR-ND	100.00	ELJ-PB560KF
68µH	10%	10	—	2.52	7	2.60	170	PCD1532CT-ND	1.25	1.03	.69	PCD1532TR-ND	100.00	ELJ-PB680KF
82µH	10%	10	—	2.52	6.5	3.50	160	PCD1533CT-ND	1.25	1.03	.69	PCD1533TR-ND	100.00	ELJ-PB820KF
100µH	10%	20	—	0.796	6	4.00	150	PCD1534CT-ND	1.11	.91	.61	PCD1534TR-ND	100.00	ELJ-PB101KF
120µH	10%	20	—	0.796	5.5	4.50	130	PCD1535CT-ND	1.11	.91	.61	PCD1535TR-ND	100.00	ELJ-PB121KF
150µH	10%	20	—	0.796	5	6.50	120	PCD1536CT-ND	1.11	.91	.61	PCD1536TR-ND	100.00	ELJ-PB151KF
180µH	10%	20	—	0.796	4.5	7.50	110	PCD1537CT-ND	1.11	.91	.61	PCD1537TR-ND	100.00	ELJ-PB181KF
220µH	10%	20	—	0.796	4	9.00	90	PCD1538CT-ND	1.11	.91	.61	PCD1538TR-ND	100.00	ELJ-PB221KF

SUSUMU CO., LTD Thin Film Inductors

Features:
- Excellent inductance tolerances
- Thin package profiles
- Self resonant frequencies of more than 1 Ghz
- High Q values
- High rated currents
- Susumu's HPL Series thin film inductors contribute to lead-free composition of electronic products



Series	Dimension L	W	P	T
HPL0603	0.60 ± 0.05	0.30 ± 0.05	0.07 ± 0.05	0.28 ± 0.05
HPL1005	1.00 ± 0.10	0.50 ± 0.10	0.15 ± 0.10	0.40 ± 0.10
TFL0816	1.60 ± 0.10	0.80 ± 0.10	0.30 ± 0.20	0.45 ± 0.10

Inductance (nH)	Tolerance	Q Min	Test Freq (MHz)	S.R.F. Min (GHz)	DCR (Ω) Max.	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Susumu Part No.
HPL0603 Series 0201 Package LEAD-FREE														
1.0	± 0.2nH	15	300	10	0.24	510	408-1015-1-ND	.30	.25	.20	408-1015-2-ND	10,000	105.00/M	HPL0603-1N0
1.2	± 0.2nH	15	300	10	0.30	460	408-1016-1-ND	.30	.25	.20	408-1016-2-ND	10,000	105.00/M	HPL0603-1N2
1.5	± 0.2nH	15	300	10	0.26	490	408-1017-1-ND	.30	.25	.20	408-1017-2-ND	10,000	105.00/M	HPL0603-1N5
1.8	± 0.2nH	15	300	10	0.36	420	408-1018-1-ND	.30	.25	.20	408-1018-2-ND	10,000	105.00/M	HPL0603-1N8
2.2	± 0.2nH	15	300	10	0.50	350	408-1019-1-ND	.30	.25	.20	408-1019-2-ND	10,000	105.00/M	HPL0603-2N2
2.7	± 0.2nH	13	300	10	0.54	340	408-1020-1-ND	.30	.25	.20	408-1020-2-ND	10,000	105.00/M	HPL0603-2N7
3.3	± 0.2nH	13	300	7	0.66	310	408-1021-1-ND	.30	.25	.20	408-1021-2-ND	10,000	105.00/M	HPL0603-3N3
3.9	± 0.2nH	13	300	7	0.80	280	408-1022-1-ND	.30	.25	.20	408-1022-2-ND	10,000	105.00/M	HPL0603-3N9
4.7	± 0.2nH	13	300	7	1.00	250	408-1023-1-ND	.30	.25	.20	408-1023-2-ND	10,000	105.00/M	HPL0603-4N7
5.6	± 0.2nH	10	300	6	1.60	200	408-1024-1-ND	.30	.25	.20	408-1024-2-ND	10,000	105.00/M	HPL0603-5N6
HPL1005 Series 0402 Package LEAD-FREE														
1.0	± 0.2nH	15	300	7	0.03	1800	408-1000-1-ND	.13	.11	.09	408-1000-2-ND	10,000	45.00/M	HPL1005-1N0
1.2	± 0.2nH	15	300	7	0.08	1400	408-1001-1-ND	.13	.11	.09	408-1001-2-ND	10,000	45.00/M	HPL1005-1N2
1.5	± 0.2nH	15	300	7	0.10	1200	408-1002-1-ND	.13	.11	.09	408-1002-2-ND	10,000	45.00/M	HPL1005-1N5
1.8	± 0.2nH	15	300	7	0.14	1000	408-1003-1-ND	.13	.11	.09	408-1003-2-ND	10,000	45.00/M	HPL1005-1N8
2.2	± 0.2nH	15	300	7	0.15	900	408-1004-1-ND	.13	.11	.09	408-1004-2-ND	10,000	45.00/M	HPL1005-2N2
2.7	± 0.2nH	13	300	7	0.23	750	408-1005-1-ND	.13	.11	.09	408-1005-2-ND	10,000	45.00/M	HPL1005-2N7
3.3	± 0.2nH	13	300	7	0.25	700	408-1006-1-ND	.13	.11	.09	408-1006-2-ND	10,000	45.00/M	HPL1005-3N3
3.9	± 0.2nH	13	300	7	0.30	620	408-1007-1-ND	.13	.11	.09	408-1007-2-ND	10,000	45.00/M	HPL1005-3N9
4.7	± 0.2nH	13	300	6	0.50	500	408-1008-1-ND	.13	.11	.09	408-1008-2-ND	10,000	45.00/M	HPL1005-4N7
5.6	± 0.2nH	10	300	5.5	0.70	450	408-1009-1-ND	.13	.11	.09	408-1009-2-ND	10,000	45.00/M	HPL1005-5N6
6.8	± 0.2nH	10	300	4.5	0.80	430	408-1010-1-ND	.13	.11	.09	408-1010-2-ND	10,000	45.00/M	HPL1005-6N8
8.2	± 0.2nH	10	300	4	1.10	340	408-1011-1-ND	.13	.11	.09	408-1011-2-ND	10,000	45.00/M	HPL1005-8N2
10	± 2%	10	300	3.5	1.40	300	408-1012-1-ND	.13	.11	.09	408-1012-2-ND	10,000	45.00/M	HPL1005-10N
12	± 2%	10	300	3.5	1.65	270	408-1013-1-ND	.13	.11	.09	408-1013-2-ND	10,000	45.00/M	HPL1005-12N
15	± 2%	10	300	3.5	2.25	240	408-1014-1-ND	.13	.11	.09	408-1014-2-ND	10,000	45.00/M	HPL1005-15N
TFL0816 Series 0603 Package														
1.0	± 0.2nH	20	300	6	0.10	1000	408-1025-1-ND	.17	.14	.11	408-1025-2-ND	5,000	60.00/M	TFL0816-1N0
1.2	± 0.2nH	20	300	6	0.10	1000	408-1026-1-ND	.17	.14	.11	408-1026-2-ND	5,000	60.00/M	TFL0816-1N2
1.5	± 0.2nH	20	300	6	0.10	1000	408-1027-1-ND	.17	.14	.11	408-1027-2-ND	5,000	60.00/M	TFL0816-1N5
1.8	± 0.2nH	20	300	6	0.15	800	408-1028-1-ND	.17	.14	.11	408-1028-2-ND	5,000	60.00/M	TFL0816-1N8
2.2	± 0.2nH	20	300	6	0.15	800	408-1029-1-ND	.17	.14	.11	408-1029-2-ND	5,000	60.00/M	TFL0816-2N2
2.7	± 0.2nH	20	300	6	0.15	800	408-1030-1-ND	.17	.14	.11	408-1030-2-ND	5,000	60.00/M	TFL0816-2N7
3.3	± 0.2nH	20	300	6	0.20	700	408-1031-1-ND	.17	.14	.11	408-1031-2-ND	5,000	60.00/M	TFL0816-3N3
3.9	± 0.2nH	20	300	6	0.20	700	408-1032-1-ND	.17	.14	.11	408-1032-2-ND	5,000	60.00/M	TFL0816-3N9
4.7	± 0.2nH	20	300	5	0.25	600	408-1033-1-ND	.17	.14	.11	408-1033-2-ND	5,000	60.00/M	TFL0816-4N7
5.6	± 0.2nH	15	300	5	0.50	400	408-1034-1-ND	.17	.14	.11	408-1034-2-ND	5,000	60.00/M	TFL0816-5N6
6.8	± 0.2nH	15	300	5	0.50	400	408-1035-1-ND	.17	.14	.11	408-1035-2-ND	5,000	60.00/M	TFL0816-6N8
8.2	± 0.2nH	15	300	4	0.50	400	408-1036-1-ND	.17	.14	.11	408-1036-2-ND	5,000	60.00/M	TFL0816-8N2
10	± 2%	15	300	4	1.0	300	408-1037-1-ND	.17	.14	.11	408-1037-2-ND	5,000	60.00/M	TFL0816-10N
12	± 2%	15	300	3	1.0	300	408-1038-1-ND	.17	.14	.11	408-1038-2-ND	5,000	60.00/M	TFL0816-12N
15	± 2%	15	300	3	1.0	300	408-1039-1-ND	.17	.14	.11	408-1039-2-ND	5,000	60.00/M	TFL0816-15N
18	± 2%	15	300	2	1.5	250	408-1040-1-ND	.17	.14	.11	408-1040-2-ND	5,000	60.00/M	TFL0816-18N
22	± 2%	15	300	2	1.5	250	408-1041-1-ND	.17	.14	.11	408-1041-2-ND	5,000	60.00/M	TFL0816-22N
27	± 2%	15	300	2	2.0	200	408-1042-1-ND	.17	.14	.11	408-1042-2-ND	5,000	60.00/M	TFL0816-27N
33	± 2%	15	200	1.5	2.0	200	408-1043-1-ND	.17	.14	.11	408-1043-2-ND	5,000	60.00/M	TFL0816-33N
39	± 2%	15	200	1.5	3.0	180	408-1044-1-ND	.17	.14	.11	408-1044-2-ND	5,000	60.00/M	TFL0816-39N
47	± 2%	15	200	1.5	3.0	180	408-1045-1-ND	.17	.14	.11	408-1045-2-ND	5,000	60.00/M	TFL0816-47N
56	± 2%	15	200	1	4.0	150	408-1046-1-ND	.17	.14	.11	408-1046-2-ND	5,000	60.00/M	TFL0816-56N
68	± 2%	15	200	1	4.5	140	408-1047-1-ND	.17	.14	.11	408-1047-2-ND	5,000	60.00/M	TFL0816-68N
82	± 2%	10	200	1	6.0	120	408-1048-1-ND	.17	.14	.11	408-1048-2-ND	5,000	60.00/M	TFL0816-82N
100	± 2%	10	200	1	8.5	100	408-1049-1-ND	.17	.14	.11	408-1049-2-ND	5,000	60.00/M	TFL0816-R10

Panasonic®

Voltage Step-Up Coil

Fig. 1

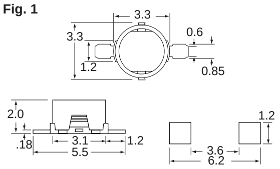


Fig. 2

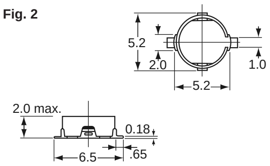
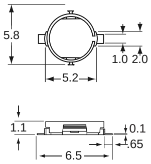


Fig. 3



High inductance Voltage Step-up coil chip series for piezo-electric buzzer and DC-DC circuit of EL

Features: • Small and thin • High inductance

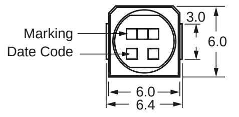
Recommended Applications: • Watches, Toys, Camera, Electronic thermo-meters, Pagers, PHS, Portable telephones

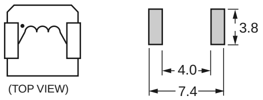
Operating Temperature: -20°C to +85°C (-20°C to +105°C for the 5KT Type).

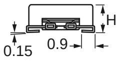
Fig.	Induct-ance (μH)	Tolerance (%)	Rated Current mA	DCR Ohm ±15%	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
3KN Type												
1	560	—	45	15	PCD1397CT-ND	2.14	1.77	1.39	PCD1397TR-ND	1,000	743.00	ELT-3KN128B
	1.0	—	30	35	PCD1398CT-ND	2.14	1.77	1.39	PCD1398TR-ND	1,000	743.00	ELT-3KN104B
	1.0	—	40	23	PCD1399CT-ND	2.14	1.77	1.39	PCD1399TR-ND	1,000	743.00	ELT-3KN121B
	1.0	—	30	25	PCD1400CT-ND	2.14	1.77	1.39	PCD1400TR-ND	1,000	743.00	ELT-3KN123B
	2.0	—	20	44	PCD1401CT-ND	2.14	1.77	1.39	PCD1401TR-ND	1,000	743.00	ELT-3KN131B
	2.5	—	20	64	PCD1402CT-ND	2.14	1.77	1.39	PCD1402TR-ND	1,000	743.00	ELT-3KN118B
	4.0	—	15	85	PCD1403CT-ND	2.14	1.77	1.39	PCD1403TR-ND	1,000	743.00	ELT-3KN124B
5KN Type												
2	220.0	±10	100	2.4	PCD1550CT-ND	2.58	2.13	1.68	PCD1550TR-ND	4,000	788.00/M	ELT-5KN127C
	560.0	±10	60	6.0	PCD1551CT-ND	2.58	2.13	1.68	PCD1551TR-ND	4,000	788.00/M	ELT-5KN118C
	390	±10	120	2.8	PCD1552CT-ND	2.58	2.13	1.68	PCD1552TR-ND	4,000	788.00/M	ELT-5KN131C
	1000	±10	55	11.5	PCD1553CT-ND	2.58	2.13	1.68	PCD1553TR-ND	4,000	788.00/M	ELT-5KN134C
	1500	±10	40	20.0	PCD1554CT-ND	2.58	2.13	1.68	PCD1554TR-ND	4,000	788.00/M	ELT-5KN135C
	2700	±10	35	33.0	PCD1555CT-ND	2.58	2.13	1.68	PCD1555TR-ND	4,000	788.00/M	ELT-5KN120C
5KT Type												
3	3.3	±20	1000	0.17	PCD1556CT-ND	2.83	2.33	1.83	PCD1556TR-ND	5,000	863.00/M	ELT-5KT3R3M
	4.7	±20	950	0.20	PCD1557CT-ND	2.83	2.33	1.83	PCD1557TR-ND	5,000	863.00/M	ELT-5KT4R7M
	6.8	±20	760	0.30	PCD1558CT-ND	2.83	2.33	1.83	PCD1558TR-ND	5,000	863.00/M	ELT-5KT6R8M
	10.0	±20	680	0.36	PCD1559CT-ND	2.83	2.33	1.83	PCD1559TR-ND	5,000	863.00/M	ELT-5KT100M
	15.0	±15	510	0.58	PCD1560CT-ND	2.83	2.33	1.83	PCD1560TR-ND	5,000	863.00/M	ELT-5KT150L
	22.0	±15	420	0.90	PCD1561CT-ND	2.83	2.33	1.83	PCD1561TR-ND	5,000	863.00/M	ELT-5KT220L
	33.0	±15	360	1.20	PCD1562CT-ND	2.83	2.33	1.83	PCD1562TR-ND	5,000	863.00/M	ELT-5KT330L
	47.0	±15	300	1.70	PCD1563CT-ND	2.83	2.33	1.83	PCD1563TR-ND	5,000	863.00/M	ELT-5KT470L
	68.0	±15	260	2.60	PCD1564CT-ND	2.83	2.33	1.83	PCD1564TR-ND	5,000	863.00/M	ELT-5KT680L
	100.0	±15	190	4.30	PCD1565CT-ND	2.83	2.33	1.83	PCD1565TR-ND	5,000	863.00/M	ELT-5KT101L

SMD Power Choke Coils

ELL6RH and ELL6SH Types







Type	Height
ELL6RH	2.5±0.3mm
ELL6SH	3.0±0.3mm

Magnetic Shielded Series

Features:

- Thin type (ELL6RH – 2.5mm height, ELL6SH – 3.0mm height)
- Higher reliability in mounting by separated user terminal and internal connection
- High current

Recommended Applications:

- Video, audio, mobile communications, electric battery driving equipment
- Choke coils for chopper circuit, and decoupling choke in DC/DC convertor circuit

Cautions for Use:

- DC/DC convertor — Chopper type: 1W maximum
- Operating Temperature: 105°C maximum (including self-temperature rise)

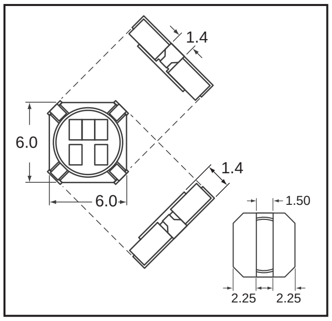
*** Rated Current:**

This indicates the value of current when the inductance is 80% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition (at 20°C).

Inductance at 100kHz Tol. ±20%	DCR at 20°C Tol. ±20%	Rated Current* (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
ELL6RH Series									
1.0μH	0.019Ω	3000	PCD1337CT-ND	1.24	1.02	.81	PCD1337TR-ND	432.00	ELL-6RH1R0M
1.5μH	0.024Ω	2400	PCD1338CT-ND	1.24	1.02	.81	PCD1338TR-ND	432.00	ELL-6RH1R5M
2.7μH	0.039Ω	1800	PCD1339CT-ND	1.24	1.02	.81	PCD1339TR-ND	432.00	ELL-6RH2R7M
3.3μH	0.044Ω	1600	PCD1340CT-ND	1.24	1.02	.81	PCD1340TR-ND	432.00	ELL-6RH3R3M
5.1μH	0.056Ω	1550	PCD1341CT-ND	1.24	1.02	.81	PCD1341TR-ND	432.00	ELL-6RH5R1M
6.2μH	0.062Ω	1400	PCD1342CT-ND	1.24	1.02	.81	PCD1342TR-ND	432.00	ELL-6RH6R2M
7.5μH	0.080Ω	1250	PCD1343CT-ND	1.24	1.02	.81	PCD1343TR-ND	432.00	ELL-6RH7R5M
8.2μH	0.087Ω	1200	PCD1344CT-ND	1.24	1.02	.81	PCD1344TR-ND	432.00	ELL-6RH8R2M
10μH	0.095Ω	1100	PCD1345CT-ND	1.24	1.02	.81	PCD1345TR-ND	432.00	ELL-6RH100M
12μH	0.13Ω	1000	PCD1346CT-ND	1.24	1.02	.81	PCD1346TR-ND	432.00	ELL-6RH120M
15μH	0.15Ω	850	PCD1347CT-ND	1.24	1.02	.81	PCD1347TR-ND	432.00	ELL-6RH150M
18μH	0.17Ω	800	PCD1348CT-ND	1.24	1.02	.81	PCD1348TR-ND	432.00	ELL-6RH180M
22μH	0.22Ω	700	PCD1349CT-ND	1.24	1.02	.81	PCD1349TR-ND	432.00	ELL-6RH220M
27μH	0.26Ω	650	PCD1350CT-ND	1.24	1.02	.81	PCD1350TR-ND	432.00	ELL-6RH270M
33μH	0.38Ω	600	PCD1351CT-ND	1.24	1.02	.81	PCD1351TR-ND	432.00	ELL-6RH330M
39μH	0.41Ω	550	PCD1352CT-ND	1.24	1.02	.81	PCD1352TR-ND	432.00	ELL-6RH390M
47μH	0.48Ω	500	PCD1353CT-ND	1.24	1.02	.81	PCD1353TR-ND	432.00	ELL-6RH470M
56μH	0.54Ω	450	PCD1354CT-ND	1.24	1.02	.81	PCD1354TR-ND	432.00	ELL-6RH560M
68μH	0.77Ω	400	PCD1355CT-ND	1.24	1.02	.81	PCD1355TR-ND	432.00	ELL-6RH680M
82μH	0.87Ω	350	PCD1356CT-ND	1.24	1.02	.81	PCD1356TR-ND	432.00	ELL-6RH820M
100μH	1.00Ω	300	PCD1357CT-ND	1.24	1.02	.81	PCD1357TR-ND	432.00	ELL-6RH101M
120μH	1.50Ω	280	PCD1358CT-ND	1.24	1.02	.81	PCD1358TR-ND	432.00	ELL-6RH121M
150μH	1.80Ω	250	PCD1359CT-ND	1.24	1.02	.81	PCD1359TR-ND	432.00	ELL-6RH151M
180μH	2.00Ω	230	PCD1360CT-ND	1.24	1.02	.81	PCD1360TR-ND	432.00	ELL-6RH181M
220μH	2.30Ω	200	PCD1361CT-ND	1.24	1.02	.81	PCD1361TR-ND	432.00	ELL-6RH221M
ELL6SH Series									
1.0μH	0.019Ω	3400	PCD1362CT-ND	1.24	1.02	.81	PCD1362TR-ND	432.00	ELL-6SH1R0M
1.5μH	0.024Ω	3200	PCD1363CT-ND	1.24	1.02	.81	PCD1363TR-ND	432.00	ELL-6SH1R5M
2.7μH	0.031Ω	2400	PCD1364CT-ND	1.24	1.02	.81	PCD1364TR-ND	432.00	ELL-6SH2R7M
3.3μH	0.034Ω	2200	PCD1365CT-ND	1.24	1.02	.81	PCD1365TR-ND	432.00	ELL-6SH3R3M
4.7μH	0.042Ω	2000	PCD1366CT-ND	1.24	1.02	.81	PCD1366TR-ND	432.00	ELL-6SH4R7M
5.6μH	0.049Ω	1800	PCD1367CT-ND	1.24	1.02	.81	PCD1367TR-ND	432.00	ELL-6SH5R6M
6.8μH	0.052Ω	1500	PCD1368CT-ND	1.24	1.02	.81	PCD1368TR-ND	432.00	ELL-6SH6R8M
8.2μH	0.061Ω	1400	PCD1369CT-ND	1.24	1.02	.81	PCD1369TR-ND	432.00	ELL-6SH8R2M
10μH	0.065Ω	1300	PCD1370CT-ND	1.24	1.02	.81	PCD1370TR-ND	432.00	ELL-6SH100M
12μH	0.071Ω	1200	PCD1371CT-ND	1.24	1.02	.81	PCD1371TR-ND	432.00	ELL-6SH120M
15μH	0.096Ω	1100	PCD1372CT-ND	1.24	1.02	.81	PCD1372TR-ND	432.00	ELL-6SH150M
18μH	0.13Ω	1000	PCD1373CT-ND	1.24	1.02	.81	PCD1373TR-ND	432.00	ELL-6SH180M
22μH	0.14Ω	900	PCD1374CT-ND	1.24	1.02	.81	PCD1374TR-ND	432.00	ELL-6SH220M
27μH	0.16Ω	800	PCD1375CT-ND	1.24	1.02	.81	PCD1375TR-ND	432.00	ELL-6SH270M
33μH	0.18Ω	700	PCD1376CT-ND	1.24	1.02	.81	PCD1376TR-ND	432.00	ELL-6SH330M
39μH	0.24Ω	650	PCD1377CT-ND	1.24	1.02	.81	PCD1377TR-ND	432.00	ELL-6SH390M
47μH	0.27Ω	600	PCD1378CT-ND	1.24	1.02	.81	PCD1378TR-ND	432.00	ELL-6SH470M
56μH	0.29Ω	550	PCD1379CT-ND	1.24	1.02	.81	PCD1379TR-ND	432.00	ELL-6SH560M
68μH	0.52Ω	500	PCD1380CT-ND	1.24	1.02	.81	PCD1380TR-ND	432.00	ELL-6SH680M
82μH	0.60Ω	450	PCD1381CT-ND	1.24	1.02	.81	PCD1381TR-ND	432.00	ELL-6SH820M
100μH	0.68Ω	400	PCD1382CT-ND	1.24	1.02	.81	PCD1382TR-ND	432.00	ELL-6SH101M
120μH	0.75Ω	370	PCD1383CT-ND	1.24	1.02	.81	PCD1383TR-ND	432.00	ELL-6SH121M
150μH	0.86Ω	350	PCD1384CT-ND	1.24	1.02	.81	PCD1384TR-ND	432.00	ELL-6SH151M
180μH	1.30Ω	300	PCD1385CT-ND	1.24	1.02	.81	PCD1385TR-ND	432.00	ELL-6SH181M
220μH	1.40Ω	280	PCD1386CT-ND	1.24	1.02	.81	PCD1386TR-ND	432.00	ELL-6SH221M
270μH	2.40Ω	260	PCD1387CT-ND	1.24	1.02	.81	PCD1387TR-ND	432.00	ELL-6SH271M
330μH	2.70Ω	240	PCD1388CT-ND	1.24	1.02	.81	PCD1388TR-ND	432.00	ELL-6SH331M
390μH	2.80Ω	210	PCD1389CT-ND	1.24	1.02	.81	PCD1389TR-ND	432.00	ELL-6SH391M
470μH	3.20Ω	200	PCD1390CT-ND	1.24	1.02	.81	PCD1390TR-ND	432.00	ELL-6SH471M
560μH	3.70Ω	180	PCD1391CT-ND	1.24	1.02	.81	PCD1391TR-ND	432.00	ELL-6SH561M

Panasonic® *NEW!* SMD Power Choke Coils

ELL6GM Type



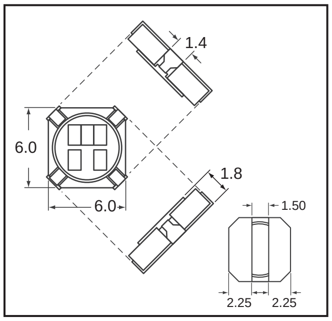
Features:
• Magnetic shielded structure • Low DC resistance and high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion

Recommended Applications:
• DC/DC converter • Chopper circuit, decoupling choke

Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
Nominal (uH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.2	±30%	0.023	±20%	2300	PCD1673CT-ND	1.57	1.30	1.02	PCD1673TR-ND	555.00	ELL-6GM1R2N
1.8	±30%	0.028	±20%	1900	PCD1674CT-ND	1.57	1.30	1.02	PCD1674TR-ND	555.00	ELL-6GM1R8N
2.2	±30%	0.035	±20%	1800	PCD1675CT-ND	1.57	1.30	1.02	PCD1675TR-ND	555.00	ELL-6GM2R2N
2.7	±30%	0.041	±20%	1700	PCD1676CT-ND	1.57	1.30	1.02	PCD1676TR-ND	555.00	ELL-6GM2R7N
3.6	±30%	0.057	±20%	1500	PCD1677CT-ND	1.57	1.30	1.02	PCD1677TR-ND	555.00	ELL-6GM3R6N
4.7	±30%	0.078	±20%	1250	PCD1678CT-ND	1.57	1.30	1.02	PCD1678TR-ND	555.00	ELL-6GM4R7N
5.6	±30%	0.086	±20%	1200	PCD1679CT-ND	1.57	1.30	1.02	PCD1679TR-ND	555.00	ELL-6GM5R6N
6.8	±30%	0.096	±20%	1100	PCD1680CT-ND	1.57	1.30	1.02	PCD1680TR-ND	555.00	ELL-6GM6R8N
7.5	±30%	0.11	±20%	1050	PCD1681CT-ND	1.57	1.30	1.02	PCD1681TR-ND	555.00	ELL-6GM7R5N
10	±20%	0.15	±20%	930	PCD1682CT-ND	1.57	1.30	1.02	PCD1682TR-ND	555.00	ELL-6GM100M
12	±20%	0.17	±20%	830	PCD1683CT-ND	1.57	1.30	1.02	PCD1683TR-ND	555.00	ELL-6GM120M
15	±20%	0.19	±20%	740	PCD1684CT-ND	1.57	1.30	1.02	PCD1684TR-ND	555.00	ELL-6GM150M
18	±20%	0.26	±20%	710	PCD1685CT-ND	1.57	1.30	1.02	PCD1685TR-ND	555.00	ELL-6GM180M
22	±20%	0.32	±20%	620	PCD1686CT-ND	1.57	1.30	1.02	PCD1686TR-ND	555.00	ELL-6GM220M
27	±20%	0.35	±20%	560	PCD1687CT-ND	1.57	1.30	1.02	PCD1687TR-ND	555.00	ELL-6GM270M
33	±20%	0.49	±20%	500	PCD1688CT-ND	1.57	1.30	1.02	PCD1688TR-ND	555.00	ELL-6GM330M
39	±20%	0.55	±20%	460	PCD1689CT-ND	1.57	1.30	1.02	PCD1689TR-ND	555.00	ELL-6GM390M
47	±20%	0.62	±20%	420	PCD1690CT-ND	1.57	1.30	1.02	PCD1690TR-ND	555.00	ELL-6GM470M
56	±20%	0.70	±20%	380	PCD1691CT-ND	1.57	1.30	1.02	PCD1691TR-ND	555.00	ELL-6GM560M
68	±20%	0.82	±20%	350	PCD1692CT-ND	1.57	1.30	1.02	PCD1692TR-ND	555.00	ELL-6GM680M

ELL6PM Type



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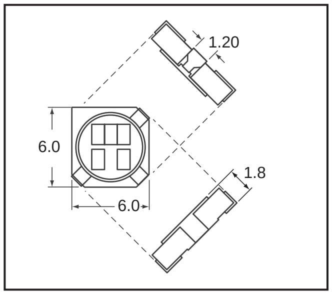
Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
Nominal (uH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.0	±30%	0.016	±20%	2700	PCD1693CT-ND	1.66	1.37	1.08	PCD1693TR-ND	585.00	ELL-6PM1R0N
1.5	±30%	0.020	±20%	2450	PCD1694CT-ND	1.66	1.37	1.08	PCD1694TR-ND	585.00	ELL-6PM1R5N
2.0	±30%	0.024	±20%	2200	PCD1695CT-ND	1.66	1.37	1.08	PCD1695TR-ND	585.00	ELL-6PM2R0N
2.7	±30%	0.029	±20%	2000	PCD1696CT-ND	1.66	1.37	1.08	PCD1696TR-ND	585.00	ELL-6PM2R7N
3.3	±30%	0.035	±20%	1850	PCD1697CT-ND	1.66	1.37	1.08	PCD1697TR-ND	585.00	ELL-6PM3R3N
3.9	±30%	0.040	±20%	1800	PCD1698CT-ND	1.66	1.37	1.08	PCD1698TR-ND	585.00	ELL-6PM3R9N
4.7	±30%	0.047	±20%	1680	PCD1699CT-ND	1.66	1.37	1.08	PCD1699TR-ND	585.00	ELL-6PM4R7N
5.6	±30%	0.052	±20%	1500	PCD1700CT-ND	1.66	1.37	1.08	PCD1700TR-ND	585.00	ELL-6PM5R6N
6.8	±30%	0.057	±20%	1350	PCD1701CT-ND	1.66	1.37	1.08	PCD1701TR-ND	585.00	ELL-6PM6R8N
7.5	±30%	0.070	±20%	1300	PCD1702CT-ND	1.66	1.37	1.08	PCD1702TR-ND	585.00	ELL-6PM7R5N
9.1	±30%	0.077	±20%	1200	PCD1703CT-ND	1.66	1.37	1.08	PCD1703TR-ND	585.00	ELL-6PM9R1N
10	±20%	0.085	±20%	1000	PCD1704CT-ND	1.66	1.37	1.08	PCD1704TR-ND	585.00	ELL-6PM100M
12	±20%	0.11	±20%	950	PCD1705CT-ND	1.66	1.37	1.08	PCD1705TR-ND	585.00	ELL-6PM120M
15	±20%	0.13	±20%	950	PCD1706CT-ND	1.66	1.37	1.08	PCD1706TR-ND	585.00	ELL-6PM150M
18	±20%	0.14	±20%	820	PCD1707CT-ND	1.66	1.37	1.08	PCD1707TR-ND	585.00	ELL-6PM180M
22	±20%	0.20	±20%	700	PCD1708CT-ND	1.66	1.37	1.08	PCD1708TR-ND	585.00	ELL-6PM220M
27	±20%	0.22	±20%	620	PCD1709CT-ND	1.66	1.37	1.08	PCD1709TR-ND	585.00	ELL-6PM270M
33	±20%	0.29	±20%	550	PCD1710CT-ND	1.66	1.37	1.08	PCD1710TR-ND	585.00	ELL-6PM330M
39	±20%	0.31	±20%	520	PCD1711CT-ND	1.66	1.37	1.08	PCD1711TR-ND	585.00	ELL-6PM390M
47	±20%	0.36	±20%	440	PCD1712CT-ND	1.66	1.37	1.08	PCD1712TR-ND	585.00	ELL-6PM470M
56	±20%	0.50	±20%	420	PCD1713CT-ND	1.66	1.37	1.08	PCD1713TR-ND	585.00	ELL-6PM560M
68	±20%	0.60	±20%	400	PCD1714CT-ND	1.66	1.37	1.08	PCD1714TR-ND	585.00	ELL-6PM680M
82	±20%	0.68	±20%	360	PCD1715CT-ND	1.66	1.37	1.08	PCD1715TR-ND	585.00	ELL-6PM820M
100	±20%	0.97	±20%	320	PCD1716CT-ND	1.66	1.37	1.08	PCD1716TR-ND	585.00	ELL-6PM101M

ELL6PV Type



Features:
• Thin type (height, 1.8mm) • Capable of corresponding high current • Low DC resistance

Recommended Application:
• Videos, audio, mobile communications, electric battery driving equipment • Choke coils for chopper circuit decoupling choke in DC/DC convertor circuit

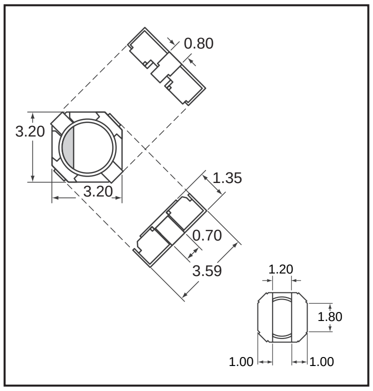
Cautions for Use:
• Converter electric power of DC/DC converter • Chopper type: 1W max. • Operating temperature: 105°C max. (Including self-temperature rise)

Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
Nominal (uH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.0	±30%	0.016	±20%	3000	PCD1717CT-ND	1.38	1.14	.90	PCD1717TR-ND	488.00	ELL-6PV1R0N
1.5	±30%	0.019	±20%	2600	PCD1718CT-ND	1.38	1.14	.90	PCD1718TR-ND	488.00	ELL-6PV1R5N
1.8	±30%	0.024	±20%	2500	PCD1719CT-ND	1.38	1.14	.90	PCD1719TR-ND	488.00	ELL-6PV1R8N
2.4	±30%	0.027	±20%	2150	PCD1720CT-ND	1.38	1.14	.90	PCD1720TR-ND	488.00	ELL-6PV2R4N
3.3	±30%	0.032	±20%	1900	PCD1721CT-ND	1.38	1.14	.90	PCD1721TR-ND	488.00	ELL-6PV3R3N
3.9	±30%	0.038	±20%	1800	PCD1722CT-ND	1.38	1.14	.90	PCD1722TR-ND	488.00	ELL-6PV3R9N
4.7	±30%	0.044	±20%	1700	PCD1723CT-ND	1.38	1.14	.90	PCD1723TR-ND	488.00	ELL-6PV4R7N
5.6	±30%	0.049	±20%	1450	PCD1724CT-ND	1.38	1.14	.90	PCD1724TR-ND	488.00	ELL-6PV5R6N
6.8	±30%	0.055	±20%	1250	PCD1725CT-ND	1.38	1.14	.90	PCD1725TR-ND	488.00	ELL-6PV6R8N
8.2	±30%	0.070	±20%	1150	PCD1726CT-ND	1.38	1.14	.90	PCD1726TR-ND	488.00	ELL-6PV8R2N
9.1	±30%	0.076	±20%	1100	PCD1727CT-ND	1.38	1.14	.90	PCD1727TR-ND	488.00	ELL-6PV9R1N
10	±20%	0.085	±20%	1000	PCD1728CT-ND	1.38	1.14	.90	PCD1728TR-ND	488.00	ELL-6PV100M
12	±20%	0.090	±20%	980	PCD1729CT-ND	1.38	1.14	.90	PCD1729TR-ND	488.00	ELL-6PV120M
15	±20%	0.12	±20%	880	PCD1730CT-ND	1.38	1.14	.90	PCD1730TR-ND	488.00	ELL-6PV150M
18	±20%	0.14	±20%	840	PCD1731CT-ND	1.38	1.14	.90	PCD1731TR-ND	488.00	ELL-6PV180M
22	±20%	0.20	±20%	700	PCD1732CT-ND	1.38	1.14	.90	PCD1732TR-ND	488.00	ELL-6PV220M
27	±20%	0.22	±20%	670	PCD1733CT-ND	1.38	1.14	.90	PCD1733TR-ND	488.00	ELL-6PV270M
33	±20%	0.28	±20%	600	PCD1734CT-ND	1.38	1.14	.90	PCD1734TR-ND	488.00	ELL-6PV330M
39	±20%	0.33	±20%	550	PCD1735CT-ND	1.38	1.14	.90	PCD1735TR-ND	488.00	ELL-6PV390M
47	±20%	0.37	±20%	500	PCD1736CT-ND	1.38	1.14	.90	PCD1736TR-ND	488.00	ELL-6PV470M
56	±20%	0.41	±20%	450	PCD1737CT-ND	1.38	1.14	.90	PCD1737TR-ND	488.00	ELL-6PV560M
68	±20%	0.57	±20%	420	PCD1738CT-ND	1.38	1.14	.90	PCD1738TR-ND	488.00	ELL-6PV680M
82	±20%	0.65	±20%	380	PCD1739CT-ND	1.38	1.14	.90	PCD1739TR-ND	488.00	ELL-6PV820M
100	±20%	0.75	±20%	340	PCD1740CT-ND	1.38	1.14	.90	PCD1740TR-ND	488.00	ELL-6PV101M

Panasonic NEW! SMD Power Choke Coils

ELL3GM Type

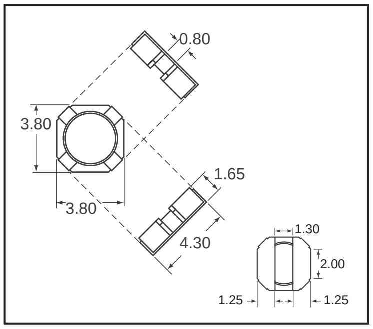


Features: • Magnetic shielded structure • Low DC resistance, high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion • ***Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Recommended Applications: • DC/DC Converter Circuit for computer peripheral, Hand phone • Choke coils for chopper circuit decoupling choke in DC/DC Converter Circuit

Inductance		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
Nominal (uH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.0	±30%	0.038	±20%	1800	PCD1641CT-ND	1.26	1.04	.82	PCD1641TR-ND	443.00/M	ELL-3GM1R0N
1.3	±30%	0.058	±20%	1500	PCD1642CT-ND	1.26	1.04	.82	PCD1642TR-ND	443.00/M	ELL-3GM1R3N
2.2	±30%	0.10	±20%	1100	PCD1643CT-ND	1.26	1.04	.82	PCD1643TR-ND	443.00/M	ELL-3GM2R2N
2.7	±30%	0.11	±20%	1000	PCD1644CT-ND	1.26	1.04	.82	PCD1644TR-ND	443.00/M	ELL-3GM2R7N
3.3	±30%	0.13	±20%	980	PCD1645CT-ND	1.26	1.04	.82	PCD1645TR-ND	443.00/M	ELL-3GM3R3N
3.9	±30%	0.14	±20%	940	PCD1646CT-ND	1.26	1.04	.82	PCD1646TR-ND	443.00/M	ELL-3GM3R9N
4.3	±30%	0.22	±20%	720	PCD1647CT-ND	1.26	1.04	.82	PCD1647TR-ND	443.00/M	ELL-3GM4R3N
5.1	±30%	0.24	±20%	690	PCD1648CT-ND	1.26	1.04	.82	PCD1648TR-ND	443.00/M	ELL-3GM5R1N
5.6	±30%	0.26	±20%	670	PCD1649CT-ND	1.26	1.04	.82	PCD1649TR-ND	443.00/M	ELL-3GM5R6N
6.8	±30%	0.28	±20%	650	PCD1650CT-ND	1.26	1.04	.82	PCD1650TR-ND	443.00/M	ELL-3GM6R8N
8.2	±30%	0.31	±20%	620	PCD1651CT-ND	1.26	1.04	.82	PCD1651TR-ND	443.00/M	ELL-3GM8R2N
10	±20%	0.35	±20%	550	PCD1652CT-ND	1.26	1.04	.82	PCD1652TR-ND	443.00/M	ELL-3GM100M
12	±20%	0.40	±20%	530	PCD1653CT-ND	1.26	1.04	.82	PCD1653TR-ND	443.00/M	ELL-3GM120M
15	±20%	0.56	±20%	440	PCD1654CT-ND	1.26	1.04	.82	PCD1654TR-ND	443.00/M	ELL-3GM150M
18	±20%	0.64	±20%	420	PCD1655CT-ND	1.26	1.04	.82	PCD1655TR-ND	443.00/M	ELL-3GM180M
22	±20%	0.77	±20%	360	PCD1656CT-ND	1.26	1.04	.82	PCD1656TR-ND	443.00/M	ELL-3GM220M
27	±20%	1.05	±20%	330	PCD1657CT-ND	1.26	1.04	.82	PCD1657TR-ND	443.00/M	ELL-3GM270M
33	±20%	1.20	±20%	310	PCD1658CT-ND	1.26	1.04	.82	PCD1658TR-ND	443.00/M	ELL-3GM330M

ELL4LM Type

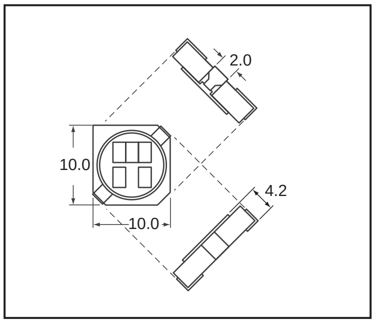


Features: • Magnetic shielded structure • Low DC resistance, high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion • ***Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Recommended Applications: • DC/DC Converter Circuit for Computer peripheral, hand phone • Choke coils for chopper circuit decoupling choke in DC/DC Converter Circuit

Inductance		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
Nominal (uH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.0	±30%	0.026	±20%	2000	PCD1659CT-ND	1.40	1.16	.91	PCD1659TR-ND	495.00/M	ELL-4LM1R0N
1.5	±30%	0.031	±20%	1600	PCD1660CT-ND	1.40	1.16	.91	PCD1660TR-ND	495.00/M	ELL-4LM1R5N
2.0	±30%	0.043	±20%	1350	PCD1661CT-ND	1.40	1.16	.91	PCD1661TR-ND	495.00/M	ELL-4LM2R0N
2.7	±30%	0.056	±20%	1250	PCD1662CT-ND	1.40	1.16	.91	PCD1662TR-ND	495.00/M	ELL-4LM2R7N
3.3	±30%	0.062	±20%	1100	PCD1663CT-ND	1.40	1.16	.91	PCD1663TR-ND	495.00/M	ELL-4LM3R3N
4.7	±30%	0.090	±20%	900	PCD1664CT-ND	1.40	1.16	.91	PCD1664TR-ND	495.00/M	ELL-4LM4R7N
6.2	±30%	0.14	±20%	800	PCD1665CT-ND	1.40	1.16	.91	PCD1665TR-ND	495.00/M	ELL-4LM6R2N
7.5	±30%	0.15	±20%	720	PCD1666CT-ND	1.40	1.16	.91	PCD1666TR-ND	495.00/M	ELL-4LM7R5N
10	±30%	0.18	±20%	690	PCD1667CT-ND	1.40	1.16	.91	PCD1667TR-ND	495.00/M	ELL-4LM100M
12	±30%	0.20	±20%	530	PCD1668CT-ND	1.40	1.16	.91	PCD1668TR-ND	495.00/M	ELL-4LM120M
15	±30%	0.30	±20%	500	PCD1669CT-ND	1.40	1.16	.91	PCD1669TR-ND	495.00/M	ELL-4LM150M
18	±30%	0.32	±20%	460	PCD1670CT-ND	1.40	1.16	.91	PCD1670TR-ND	495.00/M	ELL-4LM180M
22	±30%	0.38	±20%	430	PCD1671CT-ND	1.40	1.16	.91	PCD1671TR-ND	495.00/M	ELL-4LM220M
27	±30%	0.42	±20%	370	PCD1672CT-ND	1.40	1.16	.91	PCD1672TR-ND	495.00/M	ELL-4LM270M

ELLATV Type

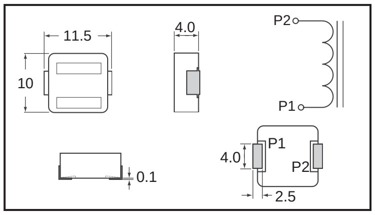


Features:
• Magnetic shielded structure • Low DC resistance and capable of corresponding high current • Available on tape and reel for automatic insertion • ***Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Recommended Applications:
• DC/DC converter circuit for computer peripheral, LCD • Choke coils for chopper circuit decoupling choked in DC/DC Converter Circuit

Inductance (100kHz)		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
Nominal (uH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.5	±30%	5.3	±20%	6700	PCD1741CT-ND	2.34	1.93	1.52	PCD1741TR-ND	412.50	ELL-ATV1R5N
2.2	±30%	6.3	±20%	6200	PCD1742CT-ND	2.34	1.93	1.52	PCD1742TR-ND	412.50	ELL-ATV2R2N
3.3	±30%	8.8	±20%	5350	PCD1743CT-ND	2.34	1.93	1.52	PCD1743TR-ND	412.50	ELL-ATV3R3N
4.3	±30%	10	±20%	5000	PCD1744CT-ND	2.34	1.93	1.52	PCD1744TR-ND	412.50	ELL-ATV4R3N
5.1	±30%	14	±20%	4350	PCD1745CT-ND	2.34	1.93	1.52	PCD1745TR-ND	412.50	ELL-ATV5R1N
6.8	±30%	16	±20%	4000	PCD1746CT-ND	2.34	1.93	1.52	PCD1746TR-ND	412.50	ELL-ATV6R8N
8.2	±30%	18	±20%	3700	PCD1747CT-ND	2.34	1.93	1.52	PCD1747TR-ND	412.50	ELL-ATV8R2N
10	±20%	23	±20%	3300	PCD1748CT-ND	2.34	1.93	1.52	PCD1748TR-ND	412.50	ELL-ATV100M
12	±20%	25	±20%	2900	PCD1749CT-ND	2.34	1.93	1.52	PCD1749TR-ND	412.50	ELL-ATV120M
15	±20%	32	±20%	2800	PCD1750CT-ND	2.34	1.93	1.52	PCD1750TR-ND	412.50	ELL-ATV150M
18	±20%	38	±20%	2500	PCD1751CT-ND	2.34	1.93	1.52	PCD1751TR-ND	412.50	ELL-ATV180M
22	±20%	45	±20%	2200	PCD1752CT-ND	2.34	1.93	1.52	PCD1752TR-ND	412.50	ELL-ATV220M
27	±20%	56	±20%	2000	PCD1753CT-ND	2.34	1.93	1.52	PCD1753TR-ND	412.50	ELL-ATV270M
33	±20%	62	±20%	1800	PCD1754CT-ND	2.34	1.93	1.52	PCD1754TR-ND	412.50	ELL-ATV330M
39	±20%	74	±20%	1600	PCD1755CT-ND	2.34	1.93	1.52	PCD1755TR-ND	412.50	ELL-ATV390M
47	±20%	94	±20%	1550	PCD1756CT-ND	2.34	1.93	1.52	PCD1756TR-ND	412.50	ELL-ATV470M
56	±20%	100	±20%	1350	PCD1757CT-ND	2.34	1.93	1.52	PCD1757TR-ND	412.50	ELL-ATV560M
68	±20%	130	±20%	1200	PCD1758CT-ND	2.34	1.93	1.52	PCD1758TR-ND	412.50	ELL-ATV680M
82	±20%	150	±20%	1100	PCD1759CT-ND	2.34	1.93	1.52	PCD1759TR-ND	412.50	ELL-ATV820M
100	±20%	180	±20%	1000	PCD1760CT-ND	2.34	1.93	1.52	PCD1760TR-ND	412.50	ELL-ATV101M
120	±20%	210	±20%	940	PCD1761CT-ND	2.34	1.93	1.52	PCD1761TR-ND	412.50	ELL-ATV121M
150	±20%	300	±20%	850	PCD1762CT-ND	2.34	1.93	1.52	PCD1762TR-ND	412.50	ELL-ATV151M
180	±20%	350	±20%	770	PCD1763CT-ND	2.34	1.93	1.52	PCD1763TR-ND	412.50	ELL-ATV181M
220	±20%	400	±20%	700	PCD1764CT-ND	2.34	1.93	1.52	PCD1764TR-ND	412.50	ELL-ATV221M
270	±20%	500	±20%	630	PCD1765CT-ND	2.34	1.93	1.52	PCD1765TR-ND	412.50	ELL-ATV271M
330	±20%	600	±20%	550	PCD1766CT-ND	2.34	1.93	1.52	PCD1766TR-ND	412.50	ELL-ATV331M
390	±20%	750	±20%	520	PCD1767CT-ND	2.34	1.93	1.52	PCD1767TR-ND	412.50	ELL-ATV391M
470	±20%	850	±20%	480	PCD1768CT-ND	2.34	1.93	1.52	PCD1768TR-ND	412.50	ELL-ATV471M
560	±20%	1100	±20%	440	PCD1769CT-ND	2.34	1.93	1.52	PCD1769TR-ND	412.50	ELL-ATV561M
680	±20%	1250	±20%	400	PCD1770CT-ND	2.34	1.93	1.52	PCD1770TR-ND	412.50	ELL-ATV681M
820	±20%	1700	±20%	360	PCD1771CT-ND	2.34	1.93	1.52	PCD1771TR-ND	412.50	ELL-ATV821M
1000	±20%	2000	±20%	330	PCD1772CT-ND	2.34	1.93	1.52	PCD1772TR-ND	412.50	ELL-ATV821M

ETQP4L Type



Features:
• Small size, Space saving (11.5 x 10 x 4 mm) • Capable of corresponding high current (15A to 21A) • Low loss (DCR :0.7 to 1.6mΩ) • Capable of corresponding high frequency (to 1MHZ) • Surface mount and lead-free type

Recommended Applications:
• DC/DC converter for driving CPU at high speed such as srever and router • Electric power supply for CPU peripherals of Note PC and Desktop PC

Inductance (at 20°C) (Tol. = ±20%)				DC Resist. (at 20°C) DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No
L1		L2*									
(μH)	Meas. Current	(μH)	Meas. Current			1	10	100			
.056±20%	15A	0.53	21A	1.7	PCD1638CT-ND	3.68	3.15	2.10	PCD1638TR-ND	708.75	ETQ-P4LR56WFC
.036±20%	17A	0.34	24A	1.1	PCD1637CT-ND	3.68	3.15	2.10	PCD1637TR-ND	708.75	ETQ-P4LR36WFC
.019±20%	21A	0.176	30A	0.7	PCD1636CT-ND	3.68	3.15	2.10	PCD1636TR-ND	708.75	ETQ-P4LR19WFC

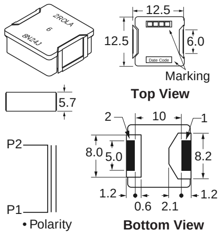
* Reference Only

Panasonic® SMD Power Choke Coils

PCC-N6 Type — Thin, Compact and High Power

Features:
• High power type • Thin type (5.7mm height) • Low leakage flux

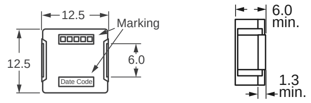
Recommended Applications:
• DC/DC converter for driving PC at high speed • Thin type on-board power supply module for exchanger (10~40W)



Series	Inductance Initial at 25°C (100 KHz) L_0 (µH)	Inductance At Flat Point at 25°C (100 KHz) L_1 (µH)	Saturation Current At 25°C I sat (A) min.	Saturation Current At 100°C I sat (A) min.	Heat Rating Current ΔT=40K(°C) I_0 (A) Ref. Only	DC Resistance At 20°C DCR (mΩ) max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
HL	2.3±30%	1.2±30%	14.3	11.7	14.2	2.24	PCD1307CT-ND	5.78	4.95	3.30	PCD1307TR-ND	1113.75	ETQ-P6F1R2HFA
	3.5±30%	2.0±30%	10.7	8.7	12.5	3.30	PCD1308CT-ND	5.78	4.95	3.30	PCD1308TR-ND	1113.75	ETQ-P6F2R0HFA
	4.8±25%	3.2±25%	8.6	7.1	10.8	4.92	PCD1309CT-ND	5.78	4.95	3.30	PCD1309TR-ND	1113.75	ETQ-P6F3R2HFA
	6.6±25%	4.6±25%	7.3	6.0	9.3	6.48	PCD1310CT-ND	5.78	4.95	3.30	PCD1310TR-ND	1113.75	ETQ-P6F4R6HFA
	8.3±25%	6.4±25%	6.2	5.2	7.9	8.64	PCD1311CT-ND	5.78	4.95	3.30	PCD1311TR-ND	1113.75	ETQ-P6F6R4HFA
	10.4±25%	8.2±25%	5.6	4.7	7.2	10.9	PCD1312CT-ND	5.78	4.95	3.30	PCD1312TR-ND	1113.75	ETQ-P6F8R2HFA
	12.5±25%	10.2±25%	4.7	4.0	6.5	13.3	PCD1313CT-ND	5.78	4.95	3.30	PCD1313TR-ND	1113.75	ETQ-P6F102HFA
SP	1.9±30%	1.0±30%	19.4	15.4	14.2	2.24	PCD1314CT-ND	5.78	4.95	3.30	PCD1314TR-ND	1113.75	ETQ-P6F1R0SFA
	2.8±30%	1.6±30%	14.9	12.2	12.5	3.30	PCD1315CT-ND	5.78	4.95	3.30	PCD1315TR-ND	1113.75	ETQ-P6F1R6SFA
	3.6±30%	2.5±30%	11.3	9.3	10.8	4.92	PCD1316CT-ND	5.78	4.95	3.30	PCD1316TR-ND	1113.75	ETQ-P6F2R5SFA
	4.9±30%	3.5±30%	9.5	8.0	9.3	6.48	PCD1392CT-ND	5.78	4.95	3.30	PCD1392TR-ND	1113.75	ETQ-P6F3R5SFA
LB	1.8±30%	0.8±30%	25.2	20.0	14.2	2.24	PCD1317CT-ND	5.78	4.95	3.30	PCD1317TR-ND	1113.75	ETQ-P6F0R8LFA
	2.5±30%	1.3±30%	18.6	15.8	12.5	3.30	PCD1318CT-ND	5.78	4.95	3.30	PCD1318TR-ND	1113.75	ETQ-P6F1R3LFA
	3.1±30%	2.0±30%	15.1	12.1	10.8	4.92	PCD1319CT-ND	5.78	4.95	3.30	PCD1319TR-ND	1113.75	ETQ-P6F2R0LFA
	4.1±30%	2.9±30%	12.0	10.0	9.3	6.48	PCD1320CT-ND	5.78	4.95	3.30	PCD1320TR-ND	1113.75	ETQ-P6F2R9LFA
	5.0±20%	4.1±20%	10.8	8.7	7.9	8.64	PCD1321CT-ND	5.78	4.95	3.30	PCD1321TR-ND	1113.75	ETQ-P6F4R1LFA

N6B Type — High Rated Current, Low Profile and Low Loss

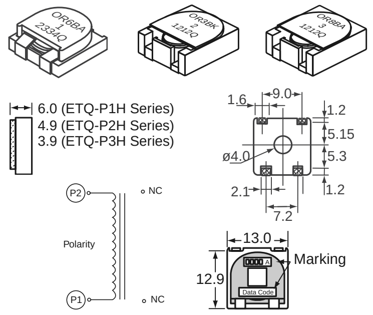
Applications:
• DC/DC converter for cpu in PC or video game machine
• Thin type on-board power supply for switchboards



Inductance (at 20°C) (Tol. = ±20%) L1 (µH)	L1 Meas. Current	L2 (µH)	L2 Meas. Current	DC Resistance (at 20°C) DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No
0.58	at 19A	0.54	at 27A	1.44	PCD1393CT-ND	3.35	2.88	1.92	PCD1393TR-ND	646.65	ETQ-P6F0R6BFA
1.06	at 16A	0.99	at 22A	2.24	PCD1394CT-ND	3.35	2.88	1.92	PCD1394TR-ND	646.65	ETQ-P6F1R1BFA
1.71	at 14A	1.50	at 20A	3.30	PCD1395CT-ND	3.35	2.88	1.92	PCD1395TR-ND	646.65	ETQ-P6F1R8BFA
2.45	at 12A	2.17	at 17A	4.92	PCD1396CT-ND	3.35	2.88	1.92	PCD1396TR-ND	646.65	ETQ-P6F2R5BFA
3.32	at 10A	2.96	at 14A	6.48	PCD1639CT-ND *NEW!*	3.35	2.88	1.92	PCD1639TR-ND *NEW!*	646.65	ETQ-P6F3R4BFA

PCC-NX1/NX2 Type — Small and Ultra Thin, High Current and Low Loss

NEW! **ETQ-P1H** **ETQ-P2H** **ETQ-P3H**



Features: • High Power: 1 sat(<29A) • High Inductance: 0.7-2.5 µH • Low Resistance: 1.3-5.0mΩ • Small Mount Area: 13.0-12.8 • Height: ETQ-P3H: 3.9mm, ETQ-P2H: 4.9mm

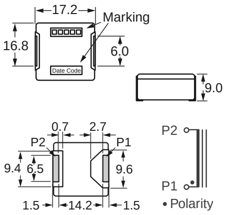
Applications: • PC High speed of CPU: Notebook PC

Series	Inductance (at 20°C) (Tol. = ±20%) L1 (µH)	L1 Meas. Current	L2* (µH)	L2* Meas. Current	DC Resist. (at 20°C) DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No
ETQ-P1H	0.60±25%	26A	0.45	36A	0.90	PCD1634CT-ND *NEW!*	4.34	3.72	2.48	PCD1634TR-ND *NEW!*	837.00	ETQ-P1H0R6BFA
	1.00±20%	19A	0.80	27A	1.56	PCD1635CT-ND *NEW!*	4.34	3.72	2.48	PCD1635TR-ND *NEW!*	837.00	ETQ-P1H1R0BFA
ETQ-P2H	0.33±20%	23A	0.30	32A	0.89	PCD1566CT-ND	3.96	3.40	2.27	PCD1566TR-ND	764.10	ETQ-P2H0R3BFK
	0.69±20%	21A	0.59	29A	1.30	PCD1567CT-ND	3.96	3.40	2.27	PCD1567TR-ND	764.10	ETQ-P2H0R7BFA
	1.22±20%	16A	1.04	22A	2.27	PCD1568CT-ND	3.96	3.40	2.27	PCD1568TR-ND	764.10	ETQ-P2H1R2BFA
	1.83±20%	14A	1.49	20A	3.48	PCD1569CT-ND	3.96	3.40	2.27	PCD1569TR-ND	764.10	ETQ-P2H1R8BFA
	2.61±20%	12A	2.12	17A	4.98	PCD1570CT-ND	3.96	3.40	2.27	PCD1570TR-ND	764.10	ETQ-P2H2R6BFA
ETQ-P3H	0.36±20%	23A	0.32	32A	1.04	PCD1640CT-ND *NEW!*	3.96	3.40	2.27	PCD1571TR-ND *NEW!*	764.10	ETQ-P3H0R4BFA
	0.80±25%	16A	0.71	22A	2.59	PCD1571CT-ND	3.96	3.40	2.27	PCD1571TR-ND	764.10	ETQ-P3H0R8BFA
	1.43±25%	12A	1.25	17A	4.52	PCD1572CT-ND	3.96	3.40	2.27	PCD1572TR-ND	764.10	ETQ-P3H1R4BFA

* Reference only

PCC-S1 Type — High Inductance and High Current

Features: • High inductance • High current.
Recommended Applications: • DC/DC converter • Computer network • Telcom base station



Series	Inductance Initial at 25°C (100 KHz) L_0 (µH)	Inductance At Flat Point at 25°C (100 KHz) L_1 (µH)	Saturation Current At 25°C I sat (A) min.	Saturation Current At 100°C I sat (A) min.	Heat Rating Current ΔT=40K(°C) I_0 (A) Ref. Only	DC Resistance At 20°C DCR (mΩ) max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 250	Panasonic Part No.
HL	2.9±30%	1.2±30%	21.4	18.0	22.6	1.00	PCD1331CT-ND	10.70	7.14	5.93	PCD1331TR-ND	1181.25	ETQ-PAF1R2HFA
	4.6±30%	2.7±30%	15.5	12.5	17.5	1.56	PCD1332CT-ND	10.70	7.14	5.93	PCD1332TR-ND	1181.25	ETQ-PAF2R7HFA
	6.8±30%	4.8±30%	10.6	9.0	14.4	2.29	PCD1333CT-ND	10.70	7.14	5.93	PCD1333TR-ND	1181.25	ETQ-PAF4R8HFA
	9.7±30%	7.2±30%	8.6	7.3	12.0	3.31	PCD1334CT-ND	10.70	7.14	5.93	PCD1334TR-ND	1181.25	ETQ-PAF7R2HFA
EX	1.9±30%	0.7±30%	50.4	42.3	22.6	1.00	PCD1335CT-ND	10.70	7.14	5.93	PCD1335TR-ND	1181.25	ETQ-PAF0R7EFA
	2.9±30%	1.3±30%	36.7	30.0	17.5	1.56	PCD1336CT-ND	10.70	7.14	5.93	PCD1336TR-ND	1181.25	ETQ-PAF1R3EFA

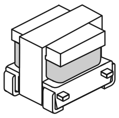
Panasonic® Current Transformers

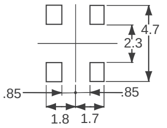
Transformer for over current detection of switching power supply.

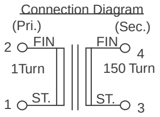
Features:
- Small and low profile
- Low-loss
- Capable of automatic mounting

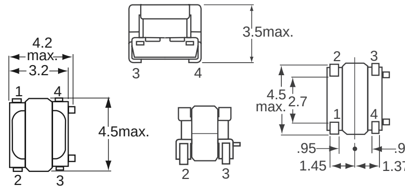
Recommended Applications:
- On-board power supply
- Power module

Performance Characteristics:
- Operating Temperature: -40°C to +115°C
- Frequency Range: f = 200 kHz to 500 kHz, Duty = 30% to 50%
- Dielectric Withstanding Voltage: P:S - AC 500 V[rms], 1 min.





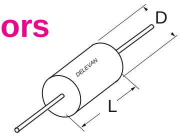




Inductance Term 3~4 ±50%	DCR (@20°C) Term 1~2 ±Max.	DCR (@20°C) Term 3~4 ±20%	Turns Ratio ±5%	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
2.6mH	0.003Ω	17Ω	0.0064	PCD1548CT-ND	4.85	3.23	2.69	PCD1548TR-ND	783.00	ETJ-04K1AZ
1.18mH	0.003Ω	11.3Ω	0.0096	PCD1549CT-ND	4.85	3.23	2.69	PCD1549TR-ND	783.00	ETJ-04K2AZ

API Delevan

Coils and Inductors



Series 1025 Molded Unshielded RF Coils

Dimensions		Lead Size	Lead
L	D	AWG #24 (TWC)	Length
.250" (6.35mm)	.095" (2.41mm)	.020" (.51mm)	1.5" (38.10mm)

Induct. (µH)	Q Min.	Test Freq. (MHz)	Max. Current Rating (mA)	Digi-Key Part No.	Price Each			API Delevan Part No.
					1	10	100	
Series 1025 Phenolic Core (LT4K)								
.10	40	25.0	1380	DN2594-ND	.63	.54	.36	1025-94K
.12	40	25.0	1300	DN2596-ND	.63	.54	.36	1025-96K
.33	30	25.0	830	DN2508-ND	.63	.54	.36	1025-08K
.39	30	25.0	710	DN2510-ND	.63	.54	.36	1025-10K
.47	30	25.0	660	DN2512-ND	.63	.54	.36	1025-12K
.56	30	25.0	550	DN2514-ND	.63	.54	.36	1025-14K
.68	28	25.0	500	DN2516-ND	.63	.54	.36	1025-16K
.82	28	25.0	420	DN2518-ND	.63	.54	.36	1025-18K
1.0	25	25.0	390	DN2520-ND	.63	.54	.36	1025-20K
Series 1025 Iron Core (LT10K)								
1.2	25	7.9	620	DN2522-ND	.77	.66	.44	1025-22K
1.5	28	7.9	560	DN2524-ND	.77	.66	.44	1025-24K
1.8	30	7.9	480	DN2526-ND	.77	.66	.44	1025-26K
2.2	30	7.9	415	DN2528-ND	.77	.66	.44	1025-28K
2.7	37	7.9	355	DN2530-ND	.77	.66	.44	1025-30K
3.3	45	7.9	285	DN2532-ND	.77	.66	.44	1025-32K
3.9	45	7.9	263	DN2534-ND	.77	.66	.44	1025-34K
4.7	45	7.9	239	DN2536-ND	.77	.66	.44	1025-36K
5.6	50	7.9	195	DN2538-ND	.77	.66	.44	1025-38K
6.8	50	7.9	185	DN2540-ND	.77	.66	.44	1025-40K
8.2	55	7.9	160	DN2542-ND	.77	.66	.44	1025-42K
10.0	55	7.9	144	DN2544-ND	.77	.66	.44	1025-44K
12.0	45	2.5	160	DN2546-ND	.77	.66	.44	1025-46K
15.0	45	2.5	157	DN2548-ND	.77	.66	.44	1025-48K
18.0	50	2.5	149	DN2550-ND	.77	.66	.44	1025-50K
22.0	50	2.5	144	DN2552-ND	.77	.66	.44	1025-52K
27.0	50	2.5	140	DN2554-ND	.77	.66	.44	1025-54K
Series 1025 Ferrite (LT10K)								
33.0	45	2.5	130	DN2556-ND	.84	.72	.48	1025-56K
39.0	45	2.5	125	DN2558-ND	.84	.72	.48	1025-58K
47.0	45	2.5	110	DN2560-ND	.84	.72	.48	1025-60K
56.0	45	2.5	100	DN2562-ND	.84	.72	.48	1025-62K
68.0	50	2.5	92	DN2564-ND	.84	.72	.48	1025-64K
82.0	50	2.5	88	DN2566-ND	.98	.84	.56	1025-66K
100.0	50	2.5	84	DN2568-ND	.98	.84	.56	1025-68K
120.0	30	.79	66	DN2570-ND	.98	.84	.56	1025-70K
150.0	30	.79	61	DN2572-ND	.98	.84	.56	1025-72K
180.0	30	.79	57	DN2574-ND	.98	.84	.56	1025-74K
220.0	30	.79	52	DN2576-ND	.98	.84	.56	1025-76K
270.0	30	.79	47	DN2578-ND	1.05	.90	.60	1025-78K
330.0	30	.79	45	DN2580-ND	1.05	.90	.60	1025-80K
390.0	30	.79	40	DN2582-ND	1.05	.90	.60	1025-82K
470.0	30	.79	36	DN2584-ND	1.05	.90	.60	1025-84K
560.0	30	.79	35	DN2586-ND	1.05	.90	.60	1025-86K
680.0	30	.79	30	DN2588-ND	1.05	.90	.60	1025-88K
820.0	30	.79	29	DN2590-ND	1.16	.99	.66	1025-90K
1000.0	30	.79	28	DN2592-ND	1.16	.99	.66	1025-92K

Series 1641 Molded Shielded RF Coils

Dimensions		Lead Size AWG #22 (TWC)	Lead Length
L	D		
.410" (10.41mm)	.162" (4.11mm)	.025" (.64mm)	1.44" (36.58mm)

Induct. (µH)	Q Min.	Test Freq. (MHz)	Max. Current Rating (mA)	Digi-Key Part No.	Price Each			API Delevan Part No.
					1	10	100	
Series 1641 Phenolic Core Iron Sleeve (LT10K)								
.10	50	25.0	1830	DN41101-ND	1.16	.99	.66	1641-101K
.12	51	25.0	1570	DN41121-ND	1.16	.99	.66	1641-121K
.15	51	25.0	1500	DN41151-ND	1.16	.99	.66	1641-151K
.18	50	25.0	1330	DN41181-ND	1.16	.99	.66	1641-181K
.22	49	25.0	1120	DN41221-ND	1.16	.99	.66	1641-221K
.27	47	25.0	870	DN41271-ND	1.16	.99	.66	1641-271K
.33	46	25.0	800	DN41331-ND	1.16	.99	.66	1641-331K
.39	44	25.0	680	DN41391-ND	1.16	.99	.66	1641-391K
.47	44	25.0	580	DN41471-ND	1.16	.99	.66	1641-471K
.56	43	25.0	505	DN41561-ND	1.16	.99	.66	1641-561K
.68	42	25.0	430	DN41681-ND	1.16	.99	.66	1641-681K
.82	40	25.0	375	DN41821-ND	1.16	.99	.66	1641-821K
Series 1641 Iron Core Iron Sleeve (LT10K)								
1.0	44	25.0	1090	DN41102-ND	1.33	1.14	.76	1641-102K
1.2	44	7.9	900	DN41122-ND	1.33	1.14	.76	1641-122K
1.5	44	7.9	835	DN41152-ND	1.33	1.14	.76	1641-152K
1.8	44	7.9	775	DN41182-ND	1.33	1.14	.76	1641-182K
2.2	44	7.9	665	DN41222-ND	1.33	1.14	.76	1641-222K
2.7	44	7.9	545	DN41272-ND	1.33	1.14	.76	1641-272K
3.3	44	7.9	490	DN41332-ND	1.33	1.14	.76	1641-332K
3.9	44	7.9	455	DN41392-ND	1.33	1.14	.76	1641-392K
4.7	44	7.9	390	DN41472-ND	1.33	1.14	.76	1641-472K
5.6	44	7.9	340	DN41562-ND	1.33	1.14	.76	1641-562K
6.8	50	7.9	285	DN41682-ND	1.33	1.14	.76	1641-682K
8.2	50	7.9	250	DN41822-ND	1.33	1.14	.76	1641-822K
10.0	50	7.9	228	DN41103-ND	1.33	1.14	.76	1641-103K
12.0	55	2.5	205	DN41123-ND	1.33	1.14	.76	1641-123K
Series 1641 Ferrite Core Ferrite Sleeve (LT10K)								
15.0	45	2.5	325	DN41153-ND	1.33	1.14	.76	1641-153K
18.0	45	2.5	305	DN41183-ND	1.33	1.14	.76	1641-183K
22.0	45	2.5	295	DN41223-ND	1.33	1.14	.76	1641-223K
27.0	45	2.5	265	DN41273-ND	1.33	1.14	.76	1641-273K
33.0	45	2.5	248	DN41333-ND	1.33	1.14	.76	1641-333K
39.0	50	2.5	209	DN41393-ND	1.33	1.14	.76	1641-393K
47.0	50	2.5	200	DN41473-ND	1.33	1.14	.76	1641-473K
56.0	50	2.5	194	DN41563-ND	1.33	1.14	.76	1641-563K
68.0	50	2.5	176	DN41683-ND	1.33	1.14	.76	1641-683K
82.0	50	2.5	186	DN41823-ND	1.33	1.14	.76	1641-823K
100.0	50	2.5	164	DN41104-ND	1.33	1.14	.76	1641-104K
120.0	55	.79	153	DN41124-ND	1.33	1.14	.76	1641-124K
150.0	55	.79	143	DN41154-ND	1.33	1.14	.76	1641-154K
180.0	55	.79	138	DN41184-ND	1.33	1.14	.76	1641-184K
220.0	55	.79	130	DN41224-ND	1.33	1.14	.76	1641-224K
270.0	55	.79	120	DN41274-ND	1.33	1.14	.76	1641-274K
330.0	55	.79	115	DN41334-ND	1.33	1.14	.76	1641-334K
390.0	60	.79	107	DN41394-ND	1.33	1.14	.76	1641-394K
470.0	60	.79	94	DN41474-ND	1.40	1.20	.80	1641-474K
560.0	60	.79	90	DN41564-ND	1.40	1.20	.80	1641-564K
680.0	60	.79	84	DN41684-ND	1.40	1.20	.80	1641-684K
820.0	60	.79	80	DN41824-ND	1.40	1.20	.80	1641-824K
1000.0	60	.79	70	DN41105-ND	1.40	1.20	.80	1641-105K

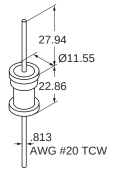
Series 2474 Power Inductors

Mechanical Configuration: Units are axial leaded for printed circuit mounting, encapsulated in an epoxy molded case. High resistivity ferrite core, allows for high inductance with low DC resistance. **Operating Temperature:** -55°C to +125°C. **Current Rating:** 40°C Rise over 85°C Ambient. **Power Dissipation at 85°C:** .50 Watts. **Inductance:** Measured at 1 V with no DC current.

Dimensions		Lead Size	Lead
L	D	AWG #20 (TWC)	Length
.740" (18.80mm)	.240" (6.10mm)	.032" (.81mm)	1.44" (36.58mm)

Induct. (µH)	Max. DC Resist. (Ohms)	Max. Current Rating (Amps)	Digi-Key Part No.	Price Each			API Delevan Part No.
				1	10	100	
Series 2474 Ferrite Core							
1.0	0.009	6.27	DN7401-ND	2.33	2.00	1.34	2474-01L
1.2	0.010	5.95	DN7402-ND	2.33	2.00	1.34	2474-02L
1.5	0.011	5.67	DN7403-ND	2.33	2.00	1.34	2474-03L
1.8	0.012	5.43	DN7404-ND	2.33	2.00	1.34	2474-04L
2.2	0.013	5.22	DN7405-ND	2.33	2.00	1.34	2474-05L
2.7	0.014	5.03	DN7406-ND	2.33	2.00	1.34	2474-06L
3.3	0.016	4.70	DN7407-ND	2.33	2.00	1.34	2474-07L
3.9	0.017	4.56	DN7408-ND	2.33	2.00	1.34	2474-08L
4.7	0.022	4.01	DN7409-ND	2.33	2.00	1.34	2474-09L
5.6	0.024	3.84	DN7410-ND	2.33	2.00	1.34	2474-10L
6.8	0.026	3.69	DN7411-ND	2.33	2.00	1.34	2474-11L
8.2	0.028	3.55	DN7412-ND	2.33	2.00	1.34	2474-12L
10.0	0.033	3.27	DN7413-ND	2.76	2.37	1.58	2474-13L
12.0	0.037	3.09	DN7414-ND	2.76	2.37	1.58	2474-14L
15.0	0.040	2.97	DN7415-ND	2.76	2.37	1.58	2474-15L
18.0	0.044	2.84	DN7416-ND	2.76	2.37	1.58	2474-16L
22.0	0.050	2.66	DN7417-ND	2.76	2.37	1.58	2474-17L
27.0	0.070	2.25	DN7418-ND	2.76	2.37	1.58	2474-18L
33.0	0.075	2.17	DN7419-ND	2.76	2.37	1.58	2474-19L
39.0	0.084	2.05	DN7420-ND	2.76	2.37	1.58	2474-20L
47.0	0.104	1.84	DN7421-ND	2.76	2.37	1.58	2474-21L
56.0	0.130	1.65	DN7422-ND	2.76	2.37	1.58	2474-22L
68.0	0.145	1.56	DN7423-ND	2.76	2.37	1.58	2474-23L
82.0	0.152	1.53	DN7424-ND	2.76	2.37	1.58	2474-24L
100.0	0.208	1.30	DN7425-ND	2.94	2.52	1.68	2474-25L
120.0	0.283	1.12	DN7426-ND	2.94	2.52	1.68	2474-26L
150.0	0.330	1.04	DN7427-ND	2.94	2.52	1.68	2474-27L
180.0	0.362	0.99	DN7428-ND	2.94	2.52	1.68	2474-28L
220.0	0.505	0.84	DN7429-ND	2.94	2.52	1.68	2474-29L
270.0	0.557	0.80	DN7430-ND	2.94	2.52	1.68	2474-30L
330.0	0.650	0.74	DN7431-ND	2.94	2.52	1.68	2474-31L
390.0	0.770	0.68	DN7432-ND	2.94	2.52	1.68	2474-32L
470.0	1.03	0.59	DN7433-ND	2.94	2.52	1.68	2474-33L
560.0	1.14	0.56	DN7434-ND	2.94	2.52	1.68	2474-34L
680.0	1.50	0.49	DN7435-ND	2.94	2.52	1.68	2474-35L
820.0	1.98	0.42	DN7436-ND	2.94	2.52	1.68	2474-36L
1000.0	2.30	0.39	DN7437-ND	3.12	2.68	1.79	2474-37L
1200.0	2.55	0.37	DN7438-ND	3.12	2.68	1.79	2474-38L
1500.0	3.00	0.34	DN7439-ND	3.12	2.68	1.79	2474-39L
1800.0	4.00	0.30	DN7440-ND	3.12	2.68	1.79	2474-40L
2200.0	4.40	0.28	DN7441-ND	3.12	2.68	1.79	2474-41L
2700.0	5.80	0.25	DN7442-ND	3.12	2.68	1.79	2474-42L
3300.0	6.56	0.23	DN7443-ND	3.12	2.68	1.79	2474-43L
3900.0	8.63	0.20	DN7444-ND	3.12	2.68	1.79	2474-44L
4700.0	10.1	0.19	DN7445-ND	3.12	2.68	1.79	2474-45L
5600.0	11.2	0.18	DN7446-ND	3.12	2.68	1.79	2474-46L
6800.0	15.0	0.15	DN7447-ND	3.12	2.68	1.79	2474-47L
8200.0	20.8	0.13	DN7448-ND	3.12	2.68	1.79	2474-48L
10000.0	23.4	0.12	DN7449-ND	3.34	2.87	1.91	2474-49L
12000.0	26.0	0.12	DN7450-ND	3.34	2.87	1.91	2474-50L
15000.0	36.0	0.10	DN7451-ND	3.34	2.87	1.91	2474-51L
18000.0	40.0	0.09	DN7452-ND	3.34	2.87	1.91	2474-52L

Series 4590 High Current Filter Inductors

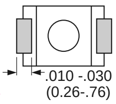


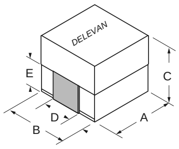
Mechanical Configuration:
Ferrite Bobbin protected with a flame retardant polyolefin sleeve.

Nom. Induct. ±10% (µH)	Max. DC Resist. (Ohms)	Max. Current Rating (Amps)	Digi-Key Part No.	Price Each			API Delevan Part No.
				1	10	100	
3.9	0.007	9.75	DN4495-ND	1.82	1.57	1.05	4590-392K
4.7	0.008	9.11	DN4496-ND	1.82	1.57	1.05	4590-472K
5.6	0.011	7.77	DN4497-ND	1.82	1.57	1.05	4590-562K
6.8	0.011	7.60	DN4498-ND	1.82	1.57	1.05	4590-682K
8.2	0.013	7.15	DN4499-ND	1.82	1.57	1.05	4590-822K
10.0	0.016	6.44	DN4500-ND	2.08	1.79	1.19	4590-103K
12.0	0.018	6.07	DN4501-ND	2.08	1.79	1.19	4590-123K
15.0	0.020	5.76	DN4502-ND	2.08	1.79	1.19	4590-153K
18.0	0.020	5.49	DN4503-ND	2.08	1.79	1.19	4590-183K
22.0	0.024	5.26	DN4504-ND	2.08	1.79	1.19	4590-223K
27.0	0.025	5.15	DN4505-ND	2.08	1.79	1.19	4590-273K
33.0	0.028	4.87	DN4506-ND	2.08	1.79	1.19	4590-333K
39.0	0.028	4.87	DN4507-ND	2.08	1.79	1.19	4590-393K
47.0	0.034	4.45	DN4508-ND	2.08	1.79	1.19	4590-473K
56.0	0.043	3.93	DN4509-ND	2.08	1.79	1.19	4590-563K
68.0	0.059	3.35	DN4510-ND	2.08	1.79	1.19	4590-683K
82.0	0.066	3.17	DN4511-ND	2.08	1.79	1.19	4590-823K
100	0.084	2.81	DN4512-ND	2.08	1.79	1.19	4590-104K
120	0.113	2.43	DN4513-ND	2.08	1.79	1.19	4590-124K
150	0.129	2.27	DN4514-ND	2.08	1.79	1.19	4590-154K
180	0.150	2.10	DN4515-ND	2.08	1.79	1.19	4590-184K
220	0.162	2.02	DN4516-ND	2.08	1.79	1.19	4590-224K
270	0.226	1.71	DN4517-ND	2.08	1.79	1.19	4590-274K
330	0.257	1.61	DN4518-ND	2.08	1.79	1.19	4590-334K
390	0.288	1.52	DN4519-ND	2.08	1.79	1.19	4590-394K
470	0.393	1.30	DN4520-ND	2.08	1.79	1.19	4590-474K
560	0.504	1.15	DN4521-ND	2.08	1.79	1.19	4590-564K
680	0.570	1.08	DN4522-ND	2.08	1.79	1.19	4590-684K
820	0.643	1.01	DN4523-ND	2.08	1.79	1.19	4590-824K
1000	0.844	0.89	DN4524-ND	2.08	1.79	1.19	4590-105K
1200	0.977	0.82	DN4525-ND	1.97	1.70	1.13	4590-125K
1500	1.18	0.75	DN4526-ND	1.97	1.70	1.13	4590-155K
1800	1.50	0.66	DN4527-ND	1.97	1.70	1.13	4590-185K
2200	1.76	0.61	DN4528-ND	1.97	1.70	1.13	4590-225K
2700	2.13	0.56	DN4529-ND	1.97	1.70	1.13	4590-275K
3300	2.53	0.51	DN4530-ND	1.97	1.70	1.13	4590-335K
3900	2.84	0.48	DN4531-ND	1.97	1.70	1.13	4590-395K
4700	3.79	0.41	DN4532-ND	1.82	1.57	1.05	4590-475K
5600	4.24	0.39	DN4533-ND	1.82	1.57	1.05	4590-565K
6800	5.75	0.34	DN4534-ND	1.82	1.57	1.05	4590-685K
8200	6.44	0.32	DN4535-ND	1.82	1.57	1.05	4590-825K
10000	7.30	0.30	DN4536-ND	1.82	1.57	1.05	4590-106K
12000	9.34	0.26	DN4537-ND	1.82	1.57	1.05	4590-126K
15000	10.7	0.25	DN4538-ND	1.82	1.57	1.05	4590-156K
18000	14.8	0.21	DN4539-ND	1.82	1.57	1.05	4590-186K
22000	18.0	0.19	DN4540-ND	1.82	1.57	1.05	4590-226K
27000	22.7	0.17	DN4541-ND	1.82	1.57	1.05	4590-276K
33000	25.7	0.16	DN4542-ND	1.99	1.71	1.14	4590-336K
39000	29.7	0.15	DN4543-ND	1.99	1.71	1.14	4590-396K
47000	33.7	0.14	DN4544-ND	1.99	1.71	1.14	4590-476K
56000	38.0	0.13	DN4545-ND	1.99	1.71	1.14	4590-566K
68000	52.8	0.11	DN4546-ND	1.99	1.71	1.14	4590-686K
82000	67.3	0.10	DN4547-ND	1.99	1.71	1.14	4590-826K
100000	76.0	0.09	DN4548-ND	1.99	1.71	1.14	4590-107K

API Delevan

Series 1008 Unshielded Surface Mount Inductors





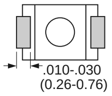
Operating Temperature Range: -67°F to +257°F (-55°C to +125°C)

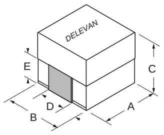
Dimensions – Inch (mm)				
A	**B**	**C**	**D**	**E**
.100 (2.54)	.080 (2.03)	.080 (2.03)	.055 (1.40)	.046 (1.17)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1008 Phenolic Core — K Tolerance, ±10%										
.010	50.0	40	1562	DN08100CT-ND	1.61	1.38	.92	DN08100TR-ND	368.00	1008-100K
.012	50.0	40	1450	DN08120CT-ND	1.61	1.38	.92	DN08120TR-ND	368.00	1008-120K
.015	50.0	40	1381	DN08150CT-ND	1.61	1.38	.92	DN08150TR-ND	368.00	1008-150K
.018	50.0	40	1320	DN08180CT-ND	1.61	1.38	.92	DN08180TR-ND	368.00	1008-180K
.022	50.0	35	1235	DN08220CT-ND	1.61	1.38	.92	DN08220TR-ND	368.00	1008-220K
.027	50.0	35	1164	DN08270CT-ND	1.61	1.38	.92	DN08270TR-ND	368.00	1008-270K
.033	50.0	30	1105	DN08330CT-ND	1.61	1.38	.92	DN08330TR-ND	368.00	1008-330K
.039	50.0	30	1053	DN08390CT-ND	1.61	1.38	.92	DN08390TR-ND	368.00	1008-390K
.047	50.0	30	1108	DN08470CT-ND	1.61	1.38	.92	DN08470TR-ND	368.00	1008-470K
.056	50.0	25	847	DN08560CT-ND	1.61	1.38	.92	DN08560TR-ND	368.00	1008-560K
.068	50.0	25	823	DN08680CT-ND	1.61	1.38	.92	DN08680TR-ND	368.00	1008-680K
.082	50.0	25	801	DN08820CT-ND	1.61	1.38	.92	DN08820TR-ND	368.00	1008-820K
.100	25.0	15	728	DN08101CT-ND	1.61	1.38	.92	DN08101TR-ND	368.00	1008-101K
Series 1008 Ferrite Core — K Tolerance, ±10%										
.12	25.0	40	1225	DN08121CT-ND	1.61	1.38	.92	DN08121TR-ND	368.00	1008-121K
.15	25.0	40	1168	DN08151CT-ND	1.61	1.38	.92	DN08151TR-ND	368.00	1008-151K
.18	25.0	40	1119	DN08181CT-ND	1.61	1.38	.92	DN08181TR-ND	368.00	1008-181K
.22	25.0	40	1055	DN08221CT-ND	1.61	1.38	.92	DN08221TR-ND	368.00	1008-221K
.27	25.0	40	1000	DN08271CT-ND	1.61	1.38	.92	DN08271TR-ND	368.00	1008-271K
.33	25.0	40	954	DN08331CT-ND	1.61	1.38	.92	DN08331TR-ND	368.00	1008-331K
.39	25.0	40	913	DN08391CT-ND	1.61	1.38	.92	—	—	1008-391K
.47	25.0	40	846	DN08471CT-ND	1.61	1.38	.92	DN08471TR-ND	368.00	1008-471K
.56	25.0	40	808	DN08561CT-ND	1.61	1.38	.92	DN08681TR-ND	368.00	1008-561K
.68	25.0	40	760	DN08681CT-ND	1.61	1.38	.92	DN08681TR-ND	368.00	1008-681K
.82	25.0	40	708	DN08821CT-ND	1.61	1.38	.92	DN08821TR-ND	368.00	1008-821K
Series 1008 Ferrite Core — J Tolerance, ±5%										
1.0	7.9	30	685	DN08102JCT-ND	1.61	1.38	.92	DN08102JTR-ND	368.00	1008-102J
1.2	7.9	30	591	DN08122JCT-ND	1.93	1.65	1.10	DN08122JTR-ND	440.00	1008-122J
1.5	7.9	30	548	DN08152JCT-ND	1.93	1.65	1.10	DN08152JTR-ND	440.00	1008-152J
1.8	7.9	30	457	DN08182JCT-ND	1.93	1.65	1.10	DN08182JTR-ND	440.00	1008-182J
2.2	7.9	30	433	DN08222JCT-ND	1.93	1.65	1.10	DN08222JTR-ND	440.00	1008-222J
2.7	7.9	30	413	DN08272JCT-ND	1.93	1.65	1.10	DN08272JTR-ND	440.00	1008-272J
3.3	7.9	30	398	DN08332JCT-ND	1.93	1.65	1.10	DN08332JTR-ND	440.00	1008-332J
3.9	7.9	30	354	DN08392JCT-ND	1.93	1.65	1.10	DN08392JTR-ND	440.00	1008-392J
4.7	7.9	30	334	DN08472JCT-ND	1.93	1.65	1.10	DN08472JTR-ND	440.00	1008-472J
5.6	7.9	30	312	DN08562JCT-ND	1.93	1.65	1.10	DN08562JTR-ND	440.00	1008-562J
6.8	7.9	30	274	DN08682JCT-ND	1.93	1.65	1.10	DN08682JTR-ND	440.00	1008-682J
8.2	7.9	30	264	DN08822JCT-ND	1.93	1.65	1.10	DN08822JTR-ND	440.00	1008-822J
10.0	7.9	30	245	DN08103JCT-ND	1.93	1.65	1.10	DN08103JTR-ND	440.00	1008-103J
15.0	2.5	30	194	DN08153JCT-ND	1.93	1.65	1.10	DN08153JTR-ND	440.00	1008-153J
18.0	2.5	30	173	DN08183JCT-ND	1.93	1.65	1.10	DN08183JTR-ND	440.00	1008-183J
22.0	2.5	30	158	DN08223JCT-ND	1.93	1.65	1.10	DN08223JTR-ND	440.00	1008-223J
27.0	2.5	30	146	DN08273JCT-ND	1.93	1.65	1.10	DN08273JTR-ND	440.00	1008-273J
33.0	2.5	30	135	DN08333JCT-ND	1.93	1.65	1.10	DN08333JTR-ND	440.00	1008-333J
39.0	2.5	30	125	DN08393JCT-ND	1.93	1.65	1.10	DN08393JTR-ND	440.00	1008-393J
47.0	2.5	30	120	DN08473JCT-ND	1.93	1.65	1.10	DN08473JTR-ND	440.00	1008-473J

1008KIT-ND (API Delevan Part No. 1008KIT)
Series 1008 Inductor Kit. 5 each of 54 values (0.0018µH to 47.0µH), 270 total pieces. **$95.95**

Series S1008 Shielded Surface Mount Inductors



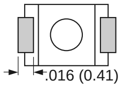


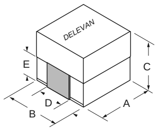
Dimensions – Inch (mm)				
A	**B**	**C**	**D**	**E**
.100 (2.54)	.080 (2.03)	.080 (2.03)	.055 (1.40)	.046 (1.17)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1008 Ferrite Core, ±10%										
.10	25	40	1120	DN1001CT-ND	1.72	1.47	.98	DN1001TR-ND	392.00	S1008-101K
.15	25	40	1015	DN1003CT-ND	1.72	1.47	.98	DN1003TR-ND	392.00	S1008-151K
.18	25	40	970	DN1004CT-ND	1.72	1.47	.98	DN1004TR-ND	392.00	S1008-181K
.22	25	40	930	DN1005CT-ND	1.72	1.47	.98	DN1005TR-ND	392.00	S1008-221K
.27	25	40	900	DN1006CT-ND	1.72	1.47	.98	DN1006TR-ND	392.00	S1008-271K
.33	25	40	865	DN1007CT-ND	1.72	1.47	.98	DN1007TR-ND	392.00	S1008-331K
.39	25	40	840	DN1008CT-ND	1.72	1.47	.98	DN1008TR-ND	392.00	S1008-391K
.47	25	40	815	DN1009CT-ND	1.72	1.47	.98	DN1009TR-ND	392.00	S1008-471K
.56	25	40	790	DN1010CT-ND	1.72	1.47	.98	DN1010TR-ND	392.00	S1008-561K
.62	25	40	770	DN1011CT-ND	1.72	1.47	.98	DN1011TR-ND	392.00	S1008-621K
.68	25	40	750	DN1012CT-ND	1.72	1.47	.98	DN1012TR-ND	392.00	S1008-681K
.75	25	40	735	DN1013CT-ND	1.72	1.47	.98	DN1013TR-ND	392.00	S1008-751K
.82	25	40	715	DN1014CT-ND	1.72	1.47	.98	DN1014TR-ND	392.00	S1008-821K
.91	25	40	685	DN1015CT-ND	1.72	1.47	.98	DN1015TR-ND	392.00	S1008-911K
1.0	7.9	30	670	DN1016CT-ND	1.72	1.47	.98	DN1016TR-ND	392.00	S1008-102K
1.2	7.9	30	625	DN1017CT-ND	1.72	1.47	.98	DN1017TR-ND	392.00	S1008-122K
1.5	7.9	30	545	DN1018CT-ND	1.72	1.47	.98	DN1018TR-ND	392.00	S1008-152K
1.8	7.9	30	435	DN1019CT-ND	1.72	1.47	.98	DN1019TR-ND	392.00	S1008-182K
2.2	7.9	30	375	DN1020CT-ND	1.72	1.47	.98	DN1020TR-ND	392.00	S1008-222K
2.7	7.9	30	365	DN1021CT-ND	1.72	1.47	.98	DN1021TR-ND	392.00	S1008-272K
3.3	7.9	30	355	DN1022CT-ND	1.72	1.47	.98	DN1022TR-ND	392.00	S1008-332K
3.9	7.9	30	335	DN1023CT-ND	1.72	1.47	.98	DN1023TR-ND	392.00	S1008-392K
4.7	7.9	30	305	DN1024CT-ND	1.72	1.47	.98	DN1024TR-ND	392.00	S1008-472K
5.6	7.9	30	295	DN1025CT-ND	1.72	1.47	.98	DN1025TR-ND	392.00	S1008-562K
6.8	7.9	30	250	DN1026CT-ND	1.72	1.47	.98	DN1026TR-ND	392.00	S1008-682K
8.2	7.9	30	240	DN1027CT-ND	1.72	1.47	.98	DN1027TR-ND	392.00	S1008-822K
10.0	7.9	30	230	DN1028CT-ND	1.72	1.47	.98	DN1028TR-ND	392.00	S1008-103K
12.0	2.5	30	220	DN1029CT-ND	1.72	1.47	.98	DN1029TR-ND	392.00	S1008-123K
15.0	2.5	30	210	DN1030CT-ND	1.72	1.47	.98	DN1030TR-ND	392.00	S1008-153K
18.0	2.5	30	200	DN1031CT-ND	1.72	1.47	.98	DN1031TR-ND	392.00	S1008-183K
22.0	2.5	30	170	DN1032CT-ND	1.72	1.47	.98	DN1032TR-ND	392.00	S1008-223K
27.0	2.5	30	160	DN1033CT-ND	1.72	1.47	.98	DN1033TR-ND	392.00	S1008-273K
33.0	2.5	30	125	DN1034CT-ND	1.72	1.47	.98	DN1034TR-ND	392.00	S1008-333K
47.0	2.5	30	110	DN1036CT-ND	1.72	1.47	.98	DN1036TR-ND	392.00	S1008-473K

S1008KIT-ND (API Delevan Part No. S1008KIT)
Series S1008 Inductor Kit. 5 each of 36 values (0.1µH to 47.0µH), 180 total pieces. **$95.95**

Series 1210 Unshielded Surface Mount Inductors





Operating Temperature Range:
-67°F to +257°F (-55°C to +125°C)

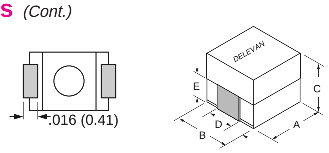
Min to Max Dimensions–Inch (mm)				
A	**B**	**C (over terminals)**	**D**	**E**
.118 – .138 (3.00 – 3.51)	.085 – .105 (2.16 – 2.67)	.081 – .101 (2.06 – 2.57)	.041 – .061 (1.04 – 1.55)	.054 (1.37)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1210 Phenolic Core, ±10%										
.010	50.0	30	966	DN10100CT-ND	.84	.72	.48	DN10100TR-ND	192.00	1210-100K
.012	50.0	30	931	DN10120CT-ND	.84	.72	.48	DN10120TR-ND	192.00	1210-120K
.015	50.0	30	871	DN10150CT-ND	.84	.72	.48	DN10150TR-ND	192.00	1210-150K
.018	50.0	30	821	DN10180CT-ND	.84	.72	.48	DN10180TR-ND	192.00	1210-180K
.022	50.0	30	779	DN10220CT-ND	.84	.72	.48	DN10220TR-ND	192.00	1210-220K
.027	50.0	30	743	DN10270CT-ND	.84	.72	.48	DN10270TR-ND	192.00	1210-270K
.033	50.0	30	711	DN10330CT-ND	.84	.72	.48	DN10330TR-ND	192.00	1210-330K
.039	50.0	30	670	DN10390CT-ND	.84	.72	.48	DN10390TR-ND	192.00	1210-390K
.047	50.0	30	636	DN10470CT-ND	.84	.72	.48	DN10470TR-ND	192.00	1210-470K
.056	50.0	30	606	DN10560CT-ND	.84	.72	.48	DN10560TR-ND	192.00	1210-560K
.068	50.0	30	580	DN10680CT-ND	.74	.63	.42	DN10680TR-ND	168.00	1210-680K
.082	50.0	30	551	DN10820CT-ND	.84	.72	.48	DN10820TR-ND	192.00	1210-820K
Series 1210 Iron Core, ±10%										
.10	25.0	30	1018	DN10101CT-ND	.95	.81	.54	DN10101TR-ND	216.00	1210-101K
.12	25.0	30	971	DN10121CT-ND	.95	.81	.54	DN10121TR-ND	216.00	1210-121K
.15	25.0	30	910	DN10151CT-ND	.95	.81	.54	DN10151TR-ND	216.00	1210-151K
.18	25.0	30	860	DN10181CT-ND	.95	.81	.54	DN10181TR-ND	216.00	1210-181K
.22	25.0	30	805	DN10221CT-ND	.95	.81	.54	DN10221TR-ND	216.00	1210-221K
.27	25.0	30	759	DN10271CT-ND	.95	.81	.54	DN10271TR-ND	216.00	1210-271K
.33	25.0	30	720	DN10331CT-ND	.95	.81	.54	DN10331TR-ND	216.00	1210-331K
.39	25.0	30	679	DN10391CT-ND	.95	.81	.54	DN10391TR-ND	216.00	1210-391K
.47	25.0	30	644	DN10471CT-ND	.95	.81	.54	DN10471TR-ND	216.00	1210-471K
.56	25.0	30	614	DN10561CT-ND	.95	.81	.54	DN10561TR-ND	216.00	1210-561K
.68	25.0	30	588	DN10681CT-ND	.95	.81	.54	DN10681TR-ND	216.00	1210-681K
.82	25.0	30	556	DN10821CT-ND	.95	.81	.54	DN10821TR-ND	216.00	1210-821K
Series 1210 Ferrite Core, ±5%										
1.0	7.9	30	515	DN10102JCT-ND	.98	.84	.56	DN10102JTR-ND	224.00	1210-102J
1.2	7.9	30	497	DN10122JCT-ND	.98	.84	.56	DN10122JTR-ND	224.00	1210-122J
1.5	7.9	30	467	DN10152JCT-ND	.98	.84	.56	DN10152JTR-ND	224.00	1210-152J
1.8	7.9	30	454	DN10182JCT-ND	.98	.84	.56	DN10182JTR-ND	224.00	1210-182J
2.2	7.9	30	431	DN10222JCT-ND	.98	.84	.56	DN10222JTR-ND	224.00	1210-222J
2.7	7.9	30	411	DN10272JCT-ND	.98	.84	.56	DN10272JTR-ND	224.00	1210-272J
3.3	7.9	30	393	DN10332JCT-ND	.98	.84	.56	DN10332JTR-ND	224.00	1210-332J
3.9	7.9	30	378	DN10392JCT-ND	.98	.84	.56	DN10392JTR-ND	224.00	1210-392J
4.7	7.9	30	352	DN10472JCT-ND	.98	.84	.56	DN10472JTR-ND	224.00	1210-472J
5.6	7.9	30	341	DN10562JCT-ND	.98	.84	.56	DN10562JTR-ND	224.00	1210-562J
6.8	7.9	30	321	DN10682JCT-ND	.98	.84	.56	DN10682JTR-ND	224.00	1210-682J
8.2	7.9	30	305	DN10822JCT-ND	.98	.84	.56	DN10822JTR-ND	224.00	1210-822J
10.0	7.9	30	297	DN10103JCT-ND	1.02	.87	.58	DN10103JTR-ND	232.00	1210-103J
12.0	2.5	30	272	DN10123JCT-ND	1.02	.87	.58	DN10123JTR-ND	232.00	1210-123J
15.0	2.5	30	257	DN10153JCT-ND	1.02	.87	.58	DN10153JTR-ND	232.00	1210-153J
18.0	2.5	30	237	DN10183JCT-ND	1.02	.87	.58	DN10183JTR-ND	232.00	1210-183J
22.0	2.5	30	224	DN10223JCT-ND	1.02	.87	.58	DN10223JTR-ND	232.00	1210-223J
27.0	2.5	30	193	DN10273JCT-ND	1.02	.87	.58	DN10273JTR-ND	232.00	1210-273J
33.0	2.5	30	182	DN10333JCT-ND	1.02	.87	.58	DN10333JTR-ND	232.00	1210-333J
39.0	2.5	30	170	DN10393JCT-ND	1.02	.87	.58	DN10393JTR-ND	232.00	1210-393J
47.0	2.5	30	163	DN10473JCT-ND	1.02	.87	.58	DN10473JTR-ND	232.00	1210-473J
56.0	2.5	30	152	DN10563JCT-ND	1.02	.87	.58	DN10563JTR-ND	232.00	1210-563J
68.0	2.5	30	144	DN10683JCT-ND	1.02	.87	.58	DN10683JTR-ND	232.00	1210-683J
82.0	2.5	30	136	DN10823JCT-ND	1.02	.87	.58	DN10823JTR-ND	232.00	1210-823J
100.0	2.5	30	120	DN10104JCT-ND	1.02	.87	.58	DN10104JTR-ND	232.00	1210-104J

1210KIT-ND (API Delevan Part No. 1210KIT)
Series 1210 Inductor Kit. 5 each of 58 values (0.0018µH to 100.0µH), 290 total pieces. **$95.95**

(Continued)

Series S1210 Shielded Surface Mount Inductors

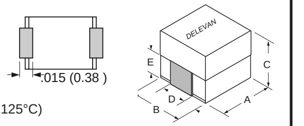


Min to Max Dimensions–Inch (mm)				
A	B	C (over terminals)	D	E
.118 – .138 (3.00–3.51)	.085 – .105 (2.16–2.67)	.081 – .101 (2.06–2.57)	.041 – .061 (1.04–1.55)	.054 (1.37)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1210 Iron Core, ±10%										
.10	25	40	1175	DN1050CT-ND	1.09	.93	.62	DN1050TR-ND	248.00	S1210-101K
.12	25	40	1104	DN1051CT-ND	1.09	.93	.62	DN1051TR-ND	248.00	S1210-121K
.15	25	40	1017	DN1052CT-ND	1.09	.93	.62	DN1052TR-ND	248.00	S1210-151K
.18	25	40	971	DN1053CT-ND	1.09	.93	.62	DN1053TR-ND	248.00	S1210-181K
.22	25	40	910	DN1054CT-ND	1.09	.93	.62	DN1054TR-ND	248.00	S1210-221K
.27	25	40	860	DN1055CT-ND	1.09	.93	.62	DN1055TR-ND	248.00	S1210-271K
.33	25	40	831	DN1056CT-ND	1.09	.93	.62	DN1056TR-ND	248.00	S1210-331K
.39	25	40	720	DN1057CT-ND	1.09	.93	.62	DN1057TR-ND	248.00	S1210-391K
.47	25	40	679	DN1058CT-ND	1.09	.93	.62	DN1058TR-ND	248.00	S1210-471K
.56	25	40	644	DN1059CT-ND	1.09	.93	.62	DN1059TR-ND	248.00	S1210-561K
.68	25	40	614	DN1060CT-ND	1.09	.93	.62	DN1060TR-ND	248.00	S1210-681K
.82	25	40	588	DN1061CT-ND	1.09	.93	.62	DN1061TR-ND	248.00	S1210-821K
Series S1210 Ferrite Core, ±10%										
1.0	7.9	40	679	DN1062CT-ND	1.02	.87	.58	DN1062TR-ND	232.00	S1210-102K
1.2	7.9	40	650	DN1063CT-ND	1.02	.87	.58	DN1063TR-ND	232.00	S1210-122K
1.5	7.9	40	603	DN1064CT-ND	1.02	.87	.58	DN1064TR-ND	232.00	S1210-152K
1.8	7.9	40	564	DN1065CT-ND	1.02	.87	.58	DN1065TR-ND	232.00	S1210-182K
2.2	7.9	40	533	DN1066CT-ND	1.02	.87	.58	DN1066TR-ND	232.00	S1210-222K
2.7	7.9	40	526	DN1067CT-ND	1.02	.87	.58	DN1067TR-ND	232.00	S1210-272K
3.3	7.9	40	509	DN1068CT-ND	1.02	.87	.58	DN1068TR-ND	232.00	S1210-332K
3.9	7.9	40	500	DN1069CT-ND	1.02	.87	.58	DN1069TR-ND	232.00	S1210-392K
4.7	7.9	40	455	DN1070CT-ND	1.02	.87	.58	DN1070TR-ND	232.00	S1210-472K
5.6	7.9	40	399	DN1071CT-ND	1.02	.87	.58	DN1071TR-ND	232.00	S1210-562K
6.8	7.9	40	372	DN1072CT-ND	1.02	.87	.58	DN1072TR-ND	232.00	S1210-682K
8.2	7.9	40	349	DN1073CT-ND	1.02	.87	.58	DN1073TR-ND	232.00	S1210-822K
10.0	2.5	40	330	DN1074CT-ND	1.02	.87	.58	DN1074TR-ND	232.00	S1210-103K
12.0	2.5	40	314	DN1075CT-ND	1.02	.87	.58	DN1075TR-ND	232.00	S1210-123K
15.0	2.5	40	288	DN1076CT-ND	1.02	.87	.58	DN1076TR-ND	232.00	S1210-153K
22.0	2.5	40	262	DN1078CT-ND	1.02	.87	.58	DN1078TR-ND	232.00	S1210-223K
27.0	2.5	40	228	DN1079CT-ND	1.02	.87	.58	DN1079TR-ND	232.00	S1210-273K
33.0	2.5	40	215	DN1080CT-ND	1.02	.87	.58	DN1080TR-ND	232.00	S1210-333K
39.0	2.5	40	204	DN1081CT-ND	1.02	.87	.58	DN1081TR-ND	232.00	S1210-393K
47.0	2.5	40	194	DN1082CT-ND	1.02	.87	.58	DN1082TR-ND	232.00	S1210-473K
56.0	2.5	40	181	DN1083CT-ND	1.02	.87	.58	DN1083TR-ND	232.00	S1210-563K
68.0	2.5	40	172	DN1084CT-ND	1.02	.87	.58	DN1084TR-ND	232.00	S1210-683K
82.0	2.5	40	156	DN1085CT-ND	1.02	.87	.58	DN1085TR-ND	232.00	S1210-823K
100.0	2.5	40	144	DN1086CT-ND	1.02	.87	.58	DN1086TR-ND	232.00	S1210-104K

S1210KIT-ND (API Delevan Part No. S1210KIT)
Series S1210 Inductor Kit. 5 each of 37 values (0.10µH to 100.0µH), 185 total pieces **$95.95**

Series 1812 Unshielded Surface Mount Inductors



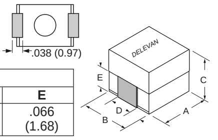
Operating Temperature Range: -67°F to +257°F (-55°C to +125°C)

Min to Max Dimensions–Inch (mm)				
A	B	C (over terminals)	D	E
.166–.190 (4.22– 4.83)	.118–.134 (3.00–3.40)	.118 –.134 (3.00 – 3.40)	.054–.078 (1.37–1.98)	.066 (1.68)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	API Delevan Part No.
Series 1812 Iron Core, ±10%										
.10	25.0	30	818	DN12101CT-ND	.70	.60	.40	DN12101TR-ND	160.00	1812-101K
.12	25.0	30	818	DN12121CT-ND	.70	.60	.40	DN12121TR-ND	160.00	1812-121K
.15	25.0	30	818	DN12151CT-ND	.70	.60	.40	DN12151TR-ND	160.00	1812-151K
.18	25.0	30	757	DN12181CT-ND	.70	.60	.40	DN12181TR-ND	160.00	1812-181K
.22	25.0	30	708	DN12221CT-ND	.70	.60	.40	DN12221TR-ND	160.00	1812-221K
.27	25.0	30	668	DN12271CT-ND	.70	.60	.40	DN12271TR-ND	160.00	1812-271K
.33	25.0	30	604	DN12331CT-ND	.70	.60	.40	DN12331TR-ND	160.00	1812-331K
.39	25.0	30	535	DN12391CT-ND	.70	.60	.40	DN12391TR-ND	160.00	1812-391K
.47	25.0	30	501	DN12471CT-ND	.70	.60	.40	DN12471TR-ND	160.00	1812-471K
.56	25.0	30	409	DN12561CT-ND	.70	.60	.40	DN12561TR-ND	160.00	1812-561K
.68	25.0	30	379	DN12681CT-ND	.70	.60	.40	DN12681TR-ND	160.00	1812-681K
.82	25.0	30	354	DN12821CT-ND	.70	.60	.40	DN12821TR-ND	160.00	1812-821K
Series 1812 Ferrite Core — J Tolerance, ±5%										
1.0	7.9	50	634	DN12102JCT-ND	.77	.66	.44	DN12102JTR-ND	176.00	1812-102J
1.2	7.9	50	604	DN12122JCT-ND	.77	.66	.44	DN12122JTR-ND	176.00	1812-122J
1.5	7.9	50	578	DN12152JCT-ND	.77	.66	.44	DN12152JTR-ND	176.00	1812-152J
1.8	7.9	50	556	DN12182JCT-ND	.77	.66	.44	DN12182JTR-ND	176.00	1812-182J
2.2	7.9	50	535	DN12222JCT-ND	.77	.66	.44	DN12222JTR-ND	176.00	1812-222J
2.7	7.9	50	517	DN12272JCT-ND	.77	.66	.44	DN12272JTR-ND	176.00	1812-272J
3.3	7.9	50	501	DN12332JCT-ND	.77	.66	.44	DN12332JTR-ND	176.00	1812-332J
3.9	7.9	50	472	DN12392JCT-ND	.77	.66	.44	DN12392JTR-ND	176.00	1812-392J
4.7	7.9	50	448	DN12472JCT-ND	.77	.66	.44	DN12472JTR-ND	176.00	1812-472J
5.6	7.9	50	427	DN12562JCT-ND	.77	.66	.44	DN12562JTR-ND	176.00	1812-562J
6.8	7.9	50	409	DN12682JCT-ND	.77	.66	.44	DN12682JTR-ND	176.00	1812-682J
8.2	7.9	50	375	DN12822JCT-ND	.77	.66	.44	DN12822JTR-ND	176.00	1812-822J
10.0	7.9	50	354	DN12103JCT-ND	.77	.66	.44	DN12103JTR-ND	176.00	1812-103J
12.0	2.5	50	317	DN12123JCT-ND	.77	.66	.44	DN12123JTR-ND	176.00	1812-123J
15.0	2.5	50	283	DN12153JCT-ND	.77	.66	.44	DN12153JTR-ND	176.00	1812-153J
18.0	2.5	50	268	DN12183JCT-ND	.77	.66	.44	DN12183JTR-ND	176.00	1812-183J
22.0	2.5	50	250	DN12223JCT-ND	.77	.66	.44	DN12223JTR-ND	176.00	1812-223J
27.0	2.5	50	236	DN12273JCT-ND	.77	.66	.44	DN12273JTR-ND	176.00	1812-273J
33.0	2.5	50	224	DN12333JCT-ND	.77	.66	.44	DN12333JTR-ND	176.00	1812-333J
39.0	2.5	50	211	DN12393JCT-ND	.77	.66	.44	DN12393JTR-ND	176.00	1812-393J
47.0	2.5	50	200	DN12473JCT-ND	.77	.66	.44	DN12473JTR-ND	176.00	1812-473J
56.0	2.5	50	191	DN12563JCT-ND	.77	.66	.44	DN12563JTR-ND	176.00	1812-563J
68.0	2.5	50	183	DN12683JCT-ND	.77	.66	.44	DN12683JTR-ND	176.00	1812-683J
82.0	2.5	50	169	DN12823JCT-ND	.77	.66	.44	DN12823JTR-ND	176.00	1812-823J
100.0	2.5	50	158	DN12104JCT-ND	.77	.66	.44	DN12104JTR-ND	176.00	1812-104J
120.0	0.79	40	158	DN12124JCT-ND	.77	.66	.44	DN12124JTR-ND	176.00	1812-124J
150.0	0.79	40	149	DN12154JCT-ND	.77	.66	.44	DN12154JTR-ND	176.00	1812-154J
180.0	0.79	40	145	DN12184JCT-ND	.77	.66	.44	DN12184JTR-ND	176.00	1812-184J
220.0	0.79	40	142	DN12224JCT-ND	1.16	.99	.66	DN12224JTR-ND	264.00	1812-224J
270.0	0.79	40	129	DN12274JCT-ND	1.16	.99	.66	DN12274JTR-ND	264.00	1812-274J
330.0	0.79	40	120	DN12334JCT-ND	1.16	.99	.66	DN12334JTR-ND	264.00	1812-334J
390.0	0.79	40	100	DN12394JCT-ND	1.16	.99	.66	DN12394JTR-ND	264.00	1812-394J
470.0	0.79	40	88	DN12474JCT-ND	1.16	.99	.66	DN12474JTR-ND	264.00	1812-474J
560.0	0.79	30	82	DN12564JCT-ND	1.16	.99	.66	DN12564JTR-ND	264.00	1812-564J
680.0	0.79	30	82	DN12684JCT-ND	1.16	.99	.66	DN12684JTR-ND	264.00	1812-684J
820.0	0.79	30	67	DN12824JCT-ND	1.16	.99	.66	DN12824JTR-ND	264.00	1812-824J
1000.0	0.79	30	55	DN12105JCT-ND	1.16	.99	.66	DN12105JTR-ND	264.00	1812-105J

1812KIT-ND (API Delevan Part No. 1812KIT)
Series 1812 Inductor Kit. 5 each of 61 values (0.010µH to 1000.0µH), 305 total pieces **$95.95**

Series S1812 Shielded Surface Mount Inductors



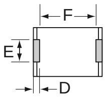
Min to Max Dimensions - Inch (mm)				
A	B	C (over terminals)	D	E
.166–.190 (4.22– 4.83)	.118 –.134 (3.00 –3.40)	.118–.134 (3.00 –3.40)	.054–.078 (1.37 –1.98)	.066 (1.68)

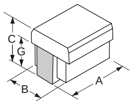
Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	Delevan Part No.
Series S1812 Iron Core, ±20%										
.10	25	50	1490	DN1100CT-ND	1.26	1.08	.72	DN1100TR-ND	288.00	S1812-101M
.12	25	50	1412	DN1101CT-ND	1.26	1.08	.72	DN1101TR-ND	288.00	S1812-121M
.15	25	50	1347	DN1102CT-ND	1.26	1.08	.72	DN1102TR-ND	288.00	S1812-151M
.18	25	50	1290	DN1103CT-ND	1.26	1.08	.72	DN1103TR-ND	288.00	S1812-181M
.47	25	40	802	DN1108CT-ND	1.26	1.08	.72	DN1108TR-ND	288.00	S1812-471M
.56	25	40	735	DN1109CT-ND	1.26	1.08	.72	DN1109TR-ND	288.00	S1812-561M
.82	25	40	614	DN1111CT-ND	1.26	1.08	.72	DN1111TR-ND	288.00	S1812-821M
Series S1812 Ferrite Core, ±10%										
1.0	7.9	40	755	DN1112CT-ND	1.30	1.11	.74	DN1112TR-ND	296.00	S1812-102K
1.2	7.9	40	725	DN1113CT-ND	1.30	1.11	.74	DN1113TR-ND	296.00	S1812-122K
1.5	7.9	40	706	DN1114CT-ND	1.30	1.11	.74	DN1114TR-ND	296.00	S1812-152K
1.8	7.9	40	681	DN1115CT-ND	1.30	1.11	.74	DN1115TR-ND	296.00	S1812-182K
2.2	7.9	40	658	DN1116CT-ND	1.30	1.11	.74	DN1116TR-ND	296.00	S1812-222K
2.7	7.9	40	638	DN1117CT-ND	1.30	1.11	.74	DN1117TR-ND	296.00	S1812-272K
3.3	7.9	40	534	DN1118CT-ND	1.30	1.11	.74	DN1118TR-ND	296.00	S1812-332K
3.9	7.9	40	487	DN1119CT-ND	1.30	1.11	.74	DN1119TR-ND	296.00	S1812-392K
4.7	7.9	40	471	DN1120CT-ND	1.30	1.11	.74	DN1120TR-ND	296.00	S1812-472K
5.6	7.9	40	447	DN1121CT-ND	1.30	1.11	.74	DN1121TR-ND	296.00	S1812-562K
6.8	7.9	40	408	DN1122CT-ND	1.30	1.11	.74	DN1122TR-ND	296.00	S1812-682K
8.2	7.9	40	372	DN1123CT-ND	1.30	1.11	.74	DN1123TR-ND	296.00	S1812-822K
10.0	2.5	50	333	DN1124CT-ND	1.30	1.11	.74	DN1124TR-ND	296.00	S1812-103K
12.0	2.5	50	315	DN1125CT-ND	1.30	1.11	.74	DN1125TR-ND	296.00	S1812-123K
15.0	2.5	50	301	DN1126CT-ND	1.30	1.11	.74	DN1126TR-ND	296.00	S1812-153K
18.0	2.5	50	288	DN1127CT-ND	1.30	1.11	.74	DN1127TR-ND	296.00	S1812-183K
22.0	2.5	50	277	DN1128CT-ND	1.30	1.11	.74	DN1128TR-ND	296.00	S1812-223K
27.0	2.5	50	267	DN1129CT-ND	1.30	1.11	.74	DN1129TR-ND	296.00	S1812-273K
33.0	2.5	50	258	DN1130CT-ND	1.30	1.11	.74	DN1130TR-ND	296.00	S1812-333K
39.0	2.5	50	250	DN1131CT-ND	1.30	1.11	.74	DN1131TR-ND	296.00	S1812-393K
47.0	2.5	50	242	DN1132CT-ND	1.30	1.11	.74	DN1132TR-ND	296.00	S1812-473K
56.0	2.5	50	235	DN1133CT-ND	1.30	1.11	.74	DN1133TR-ND	296.00	S1812-563K
68.0	2.5	50	215	DN1134CT-ND	1.30	1.11	.74	DN1134TR-ND	296.00	S1812-683K
82.0	2.5	50	196	DN1135CT-ND	1.30	1.11	.74	DN1135TR-ND	296.00	S1812-823K
100.0	.79	40	169	DN1136CT-ND	1.30	1.11	.74	DN1136TR-ND	296.00	S1812-104K
120.0	.79	40	163	DN1137CT-ND	1.30	1.11	.74	DN1137TR-ND	296.00	S1812-124K
150.0	.79	40	158	DN1138CT-ND	1.30	1.11	.74	DN1138TR-ND	296.00	S1812-154K
180.0	.79	40	153	DN1139CT-ND	1.30	1.11	.74	DN1139TR-ND	296.00	S1812-184K
220.0	.79	40	149	DN1140CT-ND	1.54	1.32	.88	DN1140TR-ND	352.00	S1812-224K
270.0	.79	40	135	DN1141CT-ND	1.54	1.32	.88	DN1141TR-ND	352.00	S1812-274K
330.0	.79	40	129	DN1142CT-ND	1.54	1.32	.88	DN1142TR-ND	352.00	S1812-334K
390.0	.79	40	105	DN1143CT-ND	1.54	1.32	.88	DN1143TR-ND	352.00	S1812-394K
470.0	.79	40	91	DN1144CT-ND	1.54	1.32	.88	DN1144TR-ND	352.00	S1812-474K
560.0	.79	40	84	DN1145CT-ND	1.54	1.32	.88	DN1145TR-ND	352.00	S1812-564K
680.0	.79	40	79	DN1146CT-ND	1.54	1.32	.88	DN1146TR-ND	352.00	S1812-684K
820.0	.79	40	71	DN1147CT-ND	1.54	1.32	.88	DN1147TR-ND	352.00	S1812-824K
1000.0	.25	40	60	DN1148CT-ND	1.54	1.32	.88	DN1148TR-ND	352.00	S1812-105K

S1812KIT-ND (API Delevan Part No. S1812KIT)
Series S1812 Inductor Kit. 5 each of 49 values (0.10µH to 1000.0µH), 245 total pieces.............. **$95.95**

(Continued)

Series P1812 Surface Mount Power Inductors

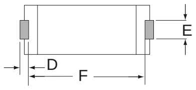


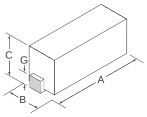


Min to Max Dimensions–Inch (mm)			
A	**B**	**C**	**D**
.166-.190 (4.22-4.83)	.118-.134 (3.00-3.40)	.118-.134 (3.00-3.40)	.015 min. (.38 min.)
E	**F**	**G**	
.054-.078 (1.37-1.98)	.118 Ref. only (3.00)	.066 Ref. only (1.68)	

Induct. (µH) ±10% @ 1KHz	DC Resist. Max. (Ohms)	Current Rating (mA)	Incre-mental Current Rating (mA DC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1.0	0.113	1050	2400	DN3300CT-ND	.86	.75	.50	DN3300TR-ND	197.60	P1812-102K
1.2	0.199	1000	2158	DN3301CT-ND	.86	.75	.50	DN3301TR-ND	197.60	P1812-122K
1.5	0.222	950	1980	DN3302CT-ND	.86	.75	.50	DN3302TR-ND	197.60	P1812-152K
1.8	0.240	900	1828	DN3303CT-ND	.86	.75	.50	DN3303TR-ND	197.60	P1812-182K
2.2	0.268	850	1697	DN3304CT-ND	.86	.75	.50	DN3304TR-ND	197.60	P1812-222K
2.7	0.288	800	1513	DN3305CT-ND	.86	.75	.50	DN3305TR-ND	197.60	P1812-272K
3.3	0.323	750	1397	DN3306CT-ND	.86	.75	.50	DN3306TR-ND	197.60	P1812-332K
3.9	0.347	700	1250	DN3307CT-ND	.86	.75	.50	DN3307TR-ND	197.60	P1812-392K
4.7	0.401	650	1131	DN3308CT-ND	.86	.75	.50	DN3308TR-ND	197.60	P1812-472K
5.6	0.437	650	1060	DN3309CT-ND	.86	.75	.50	DN3309TR-ND	197.60	P1812-562K
6.8	0.472	600	990	DN3310CT-ND	.86	.75	.50	DN3310TR-ND	197.60	P1812-682K
8.2	0.548	600	871	DN3311CT-ND	.86	.75	.50	DN3311TR-ND	197.60	P1812-822K
10	0.608	550	772	DN3312CT-ND	.93	.80	.53	DN3312TR-ND	212.00	P1812-103K
12	0.670	550	752	DN3313CT-ND	.93	.80	.53	DN3313TR-ND	212.00	P1812-123K
15	0.780	450	693	DN3314CT-ND	.93	.80	.53	DN3314TR-ND	212.00	P1812-153K
18	0.875	400	614	DN3315CT-ND	.93	.80	.53	DN3315TR-ND	212.00	P1812-183K
22	1.200	370	515	DN3316CT-ND	.93	.80	.53	DN3316TR-ND	212.00	P1812-223K
27	1.404	330	465	DN3317CT-ND	.93	.80	.53	DN3317TR-ND	212.00	P1812-273K
33	1.578	300	425	DN3318CT-ND	.93	.80	.53	DN3318TR-ND	212.00	P1812-333K
39	1.848	280	376	DN3319CT-ND	.93	.80	.53	DN3319TR-ND	212.00	P1812-393K
47	2.064	260	366	DN3320CT-ND	.93	.80	.53	DN3320TR-ND	212.00	P1812-473K
56	2.268	240	336	DN3321CT-ND	.93	.80	.53	DN3321TR-ND	212.00	P1812-563K
68	3.408	220	297	DN3322CT-ND	.93	.80	.53	DN3322TR-ND	212.00	P1812-683K
82	3.648	200	267	DN3323CT-ND	.93	.80	.53	DN3323TR-ND	212.00	P1812-823K
100	4.320	180	238	DN3324CT-ND	.93	.80	.53	DN3324TR-ND	212.00	P1812-104K
120	6.000	160	208	DN3325CT-ND	.93	.80	.53	DN3325TR-ND	212.00	P1812-124K
150	6.432	140	183	DN3326CT-ND	.93	.80	.53	DN3326TR-ND	212.00	P1812-154K
180	8.400	120	158	DN3327CT-ND	.93	.80	.53	DN3327TR-ND	212.00	P1812-184K
220	9.680	120	143	DN3328CT-ND	.93	.80	.53	DN3328TR-ND	212.00	P1812-224K
270	12.720	100	129	DN3329CT-ND	.93	.80	.53	DN3329TR-ND	212.00	P1812-274K
330	15.240	90	118	DN3330CT-ND	.93	.80	.53	DN3330TR-ND	212.00	P1812-334K

Series P1330 Surface Mount Power Inductors

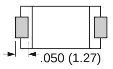


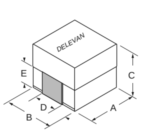


Min to Max Dimensions–Inch (mm)			
A	**B**	**C**	**D**
0.300-0.325 (7.62-8.26)	0.105-0.125 (2.67-3.18)	0.125-0.145 (3.18-3.68)	0.020 Min.(0.506 Min.)
E	**F**	**G**	
0.040-0.060 (1.02-1.52)	0.190 (Ref. only) (4.83 Ref. only)	0.070 (Ref. only)(1.78 Ref. only)	

Induct. (µH) ±10% @ 1KHz	DC Resist. Max. (Ohms)	Current Rating (mA)	Incre-mental Current Rating (mA DC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1	0.035	2780	1526	DN3260CT-ND	1.56	1.34	.90	DN3260TR-ND	356.80	P1330-102K
1.2	0.041	2690	1400	DN3261CT-ND	1.56	1.34	.90	DN3261TR-ND	356.80	P1330-122K
1.5	0.043	2030	1291	DN3262CT-ND	1.56	1.34	.90	DN3262TR-ND	356.80	P1330-152K
1.8	0.048	1950	1180	DN3263CT-ND	1.56	1.34	.90	DN3263TR-ND	356.80	P1330-182K
2.2	0.075	1690	1104	DN3264CT-ND	1.56	1.34	.90	DN3264TR-ND	356.80	P1330-222K
2.7	0.080	1550	936	DN3265CT-ND	1.56	1.34	.90	DN3265TR-ND	356.80	P1330-272K
3.3	0.108	1460	840	DN3266CT-ND	1.56	1.34	.90	DN3266TR-ND	356.80	P1330-332K
3.9	0.118	1390	732	DN3267CT-ND	1.56	1.34	.90	DN3267TR-ND	356.80	P1330-392K
4.7	0.125	1330	720	DN3268CT-ND	1.56	1.34	.90	DN3268TR-ND	356.80	P1330-472K
5.6	0.145	1110	612	DN3269CT-ND	1.56	1.34	.90	DN3269TR-ND	356.80	P1330-562K
6.8	0.165	1080	600	DN3270CT-ND	1.56	1.34	.90	DN3270TR-ND	356.80	P1330-682K
8.2	0.180	1020	600	DN3271CT-ND	1.56	1.34	.90	DN3271TR-ND	356.80	P1330-822K
10	0.216	946	564	DN3272CT-ND	1.56	1.34	.90	DN3272TR-ND	356.80	P1330-103K
12	0.252	912	516	DN3273CT-ND	1.56	1.34	.90	DN3273TR-ND	356.80	P1330-123K
15	0.288	858	432	DN3274CT-ND	1.56	1.34	.90	DN3274TR-ND	356.80	P1330-153K
18	0.328	817	420	DN3275CT-ND	1.56	1.34	.90	DN3275TR-ND	356.80	P1330-183K
22	0.384	694	348	DN3276CT-ND	1.56	1.34	.90	DN3276TR-ND	356.80	P1330-223K
27	0.425	657	324	DN3277CT-ND	1.56	1.34	.90	DN3277TR-ND	356.80	P1330-273K
33	0.538	568	270	DN3278CT-ND	1.56	1.34	.90	DN3278TR-ND	356.80	P1330-333K
39	0.600	488	270	DN3279CT-ND	1.56	1.34	.90	DN3279TR-ND	356.80	P1330-393K
47	0.792	467	246	DN3280CT-ND	1.56	1.34	.90	DN3280TR-ND	356.80	P1330-473K
56	0.900	442	216	DN3281CT-ND	1.56	1.34	.90	DN3281TR-ND	356.80	P1330-563K
68	1.020	384	174	DN3282CT-ND	1.56	1.34	.90	DN3282TR-ND	356.80	P1330-683K
82	1.380	362	150	DN3283CT-ND	1.56	1.34	.90	DN3283TR-ND	356.80	P1330-823K
100	1.680	347	132	DN3284CT-ND	1.83	1.57	1.05	DN3284TR-ND	418.40	P1330-104K
120	1.800	327	111	DN3285CT-ND	1.83	1.57	1.05	DN3285TR-ND	418.40	P1330-124K
150	2.040	272	106	DN3286CT-ND	1.83	1.57	1.05	DN3286TR-ND	418.40	P1330-154K
180	2.400	261	89	DN3287CT-ND	1.83	1.57	1.05	DN3287TR-ND	418.40	P1330-184K
220	2.648	223	72	DN3288CT-ND	1.83	1.57	1.05	DN3288TR-ND	418.40	P1330-224K
270	4.320	191	60	DN3289CT-ND	1.83	1.57	1.05	DN3289TR-ND	418.40	P1330-274K
330	4.800	179	57	DN3290CT-ND	1.83	1.57	1.05	DN3290TR-ND	418.40	P1330-334K
390	5.640	171	48	DN3291CT-ND	1.83	1.57	1.05	DN3291TR-ND	418.40	P1330-394K
470	6.000	161	41	DN3292CT-ND	1.83	1.57	1.05	DN3292TR-ND	418.40	P1330-474K
560	6.960	138	35	DN3293CT-ND	1.83	1.57	1.05	DN3293TR-ND	418.40	P1330-564K
680	8.760	130	30	DN3294CT-ND	1.83	1.57	1.05	DN3294TR-ND	418.40	P1330-684K
820	9.960	113	26	DN3295CT-ND	1.83	1.57	1.05	DN3295TR-ND	418.40	P1330-824K
1000	11.160	105	22	DN3296CT-ND	1.83	1.57	1.05	DN3296TR-ND	418.40	P1330-105K

Series 4922 High Current Surface Mount Power Inductors





Mechanical Configuration: Units are encapsulated in a Surface Mount package, using an epoxy molded case. Leads are pre-tinned. A high resistivity ferrite core allows for high inductance with low DC resistance. Standard tolerance ±15%. **Operating Temp.:** -55°C to +125°C. **Current Rating:** 40°C rise over 85°C ambient. **Power Dissipation at 85°C**: .55 Watts. **Inductance:** Measured at 1V with no DC current

Min to Max Dimensions–Inch (mm)				
A	**B**	**C (Over Terminals)**	**D**	**E (Min.)**
.500 (12.70)	.240 (6.10)	.220 (5.59)	.065 (1.66)	.100 (2.54)

Ind. @ 1 khz (µH)	Max. DC Resist. (Ohms)	Rated Current (Max. Amps)	Incre-mental Current (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 800	API Delevan Part No.
Series 4922 Ferrite Core, ±15%										
0.22	0.0080	7.00	7.00	DN2193CT-ND	2.24	1.92	1.28	DN2193TR-ND	819.20	4922-221L
0.27	0.0085	6.75	6.75	DN2194CT-ND	2.24	1.92	1.28	DN2194TR-ND	819.20	4922-271L
0.33	0.0090	6.50	6.50	DN2195CT-ND	2.24	1.92	1.28	DN2195TR-ND	819.20	4922-331L
0.39	0.0095	6.25	6.25	DN2196CT-ND	2.24	1.92	1.28	DN2196TR-ND	819.20	4922-391L
0.47	0.0100	6.00	6.00	DN2197CT-ND	2.24	1.92	1.28	DN2197TR-ND	819.20	4922-471L
0.56	0.0105	5.80	5.80	DN2198CT-ND	2.24	1.92	1.28	DN2198TR-ND	819.20	4922-561L
0.68	0.0110	5.70	5.70	DN2199CT-ND	2.24	1.92	1.28	DN2199TR-ND	819.20	4922-681L
0.82	0.0120	5.60	5.60	DN2200CT-ND	2.24	1.92	1.28	DN2200TR-ND	819.20	4922-821L
1.0	0.013	5.50	5.50	DN2201CT-ND	2.24	1.92	1.28	DN2201TR-ND	819.20	4922-01L
1.2	0.018	4.69	4.69	DN2202CT-ND	2.24	1.92	1.28	DN2202TR-ND	819.20	4922-02L
1.5	0.020	4.45	4.45	DN2203CT-ND	2.24	1.92	1.28	DN2203TR-ND	819.20	4922-03L
1.8	0.021	4.34	4.34	DN2204CT-ND	2.24	1.92	1.28	DN2204TR-ND	819.20	4922-04L
2.2	0.029	3.70	3.70	DN2205CT-ND	2.24	1.92	1.28	DN2205TR-ND	819.20	4922-05L
2.7	0.034	3.41	3.41	DN2206CT-ND	2.24	1.92	1.28	DN2206TR-ND	819.20	4922-06L
3.3	0.038	3.23	3.23	DN2207CT-ND	2.24	1.92	1.28	DN2207TR-ND	819.20	4922-07L
3.9	0.042	3.07	3.07	DN2208CT-ND	2.24	1.92	1.28	DN2208TR-ND	819.20	4922-08L
4.7	0.047	2.90	2.90	DN2209CT-ND	2.24	1.92	1.28	DN2209TR-ND	819.20	4922-09L
5.6	0.051	2.79	2.79	DN2210CT-ND	2.38	2.04	1.36	DN2210TR-ND	870.40	4922-10L
6.8	0.058	2.61	2.61	DN2211CT-ND	2.38	2.04	1.36	DN2211TR-ND	870.40	4922-11L
8.2	0.063	2.51	2.51	DN2212CT-ND	2.38	2.04	1.36	DN2212TR-ND	870.40	4922-12L
10.0	0.071	2.36	2.36	DN2213CT-ND	2.38	2.04	1.36	DN2213TR-ND	870.40	4922-13L
12.0	0.079	2.24	2.24	DN2214CT-ND	2.38	2.04	1.36	DN2214TR-ND	870.40	4922-14L
15.0	0.089	2.11	2.11	DN2215CT-ND	2.38	2.04	1.36	DN2215TR-ND	870.40	4922-15L
18.0	0.119	1.82	1.82	DN2216CT-ND	2.38	2.04	1.36	DN2216TR-ND	870.40	4922-16L
22.0	0.152	1.61	1.61	DN2217CT-ND	2.56	2.19	1.46	DN2217TR-ND	934.40	4922-17L
27.0	0.179	1.48	1.48	DN2218CT-ND	2.56	2.19	1.46	DN2218TR-ND	934.40	4922-18L
33.0	0.222	1.33	1.33	DN2219CT-ND	2.56	2.19	1.46	DN2219TR-ND	934.40	4922-19L
39.0	0.315	1.12	1.12	DN2220CT-ND	2.56	2.19	1.46	DN2220TR-ND	934.40	4922-20L
47.0	0.362	1.04	1.04	DN2221CT-ND	2.56	2.19	1.46	DN2221TR-ND	934.40	4922-21L
56.0	0.397	1.00	1.00	DN2222CT-ND	2.56	2.19	1.46	DN2222TR-ND	934.40	4922-22L
68.0	0.418	0.97	0.97	DN2223CT-ND	2.56	2.19	1.46	DN2223TR-ND	934.40	4922-23L
82.0	0.604	0.81	0.81	DN2224CT-ND	2.73	2.34	1.56	DN2224TR-ND	998.40	4922-24L
100	0.672	0.76	0.76	DN2225CT-ND	2.73	2.34	1.56	DN2225TR-ND	998.40	4922-25L
120	0.735	0.73	0.73	DN2226CT-ND	2.73	2.34	1.56	DN2226TR-ND	998.40	4922-26L
150	0.998	0.63	0.63	DN2227CT-ND	2.73	2.34	1.56	DN2227TR-ND	998.40	4922-27L
180	1.37	0.53	0.53	DN2228CT-ND	2.73	2.34	1.56	DN2228TR-ND	998.40	4922-28L
220	1.58	0.50	0.50	DN2229CT-ND	2.73	2.34	1.56	DN2229TR-ND	998.40	4922-29L
270	1.77	0.47	0.47	DN2230CT-ND	2.73	2.34	1.56	DN2230TR-ND	998.40	4922-30L
330	2.51	0.39	0.39	DN2231CT-ND	2.73	2.34	1.56	DN2231TR-ND	998.40	4922-31L
390	2.73	0.38	0.38	DN2232CT-ND	2.73	2.34	1.56	DN2232TR-ND	998.40	4922-32L
470	3.25	0.35	0.35	DN2233CT-ND	2.73	2.34	1.56	DN2233TR-ND	998.40	4922-33L
560	3.75	0.33	0.33	DN2234CT-ND	2.80	2.40	1.60	DN2234TR-ND	1024.00	4922-34L
680	4.31	0.30	0.30	DN2235CT-ND	2.80	2.40	1.60	DN2235TR-ND	1024.00	4922-35L
820	6.04	0.26	0.26	DN2236CT-ND	2.80	2.40	1.60	DN2236TR-ND	1024.00	4922-36L
1000	6.90	0.24	0.24	DN2237CT-ND	2.80	2.40	1.60	DN2237TR-ND	1024.00	4922-37L
1200	10.00	0.20	0.20	DN2238CT-ND	2.80	2.40	1.60	DN2238TR-ND	1024.00	4922-38L
1500	12.50	0.178	0.178	DN2239CT-ND	2.80	2.40	1.60	DN2239TR-ND	1024.00	4922-39L
1800	16.00	0.157	0.157	DN2333CT-ND	2.80	2.40	1.60	DN2333TR-ND	1024.00	4922-40L
2200	20.00	0.141	0.141	DN2334CT-ND	2.80	2.40	1.60	DN2334TR-ND	1024.00	4922-41L
2700	23.00	0.131	0.131	DN2335CT-ND	2.80	2.40	1.60	DN2335TR-ND	1024.00	4922-42L
3300	25.00	0.126	0.126	DN2336CT-ND	2.80	2.40	1.60	DN2336TR-ND	1024.00	4922-43L
3900	33.00	0.110	0.110	DN2337CT-ND	2.80	2.40	1.60	DN2337TR-ND	1024.00	4922-44L
4700	37.00	0.103	0.103	DN2338CT-ND	2.80	2.40	1.60	DN2338TR-ND	1024.00	4922-45L
5600	40.00	0.100	0.100	DN2339CT-ND	2.80	2.40	1.60	DN2339TR-ND	1024.00	4922-46L
6800	62.00	0.080	0.080	DN2340CT-ND	2.94	2.52	1.68	DN2340TR-ND	1075.20	4922-47L
8200	66.00	0.077	0.077	DN2341CT-ND	2.94	2.52	1.68	DN2341TR-ND	1075.20	4922-48L
10000	74.00	0.071	0.071	DN2342CT-ND	2.94	2.52	1.68	DN2342TR-ND	1075.20	4922-49L
12000	93.00	0.065	0.065	DN2343CT-ND	2.94	2.52	1.68	DN2343TR-ND	1075.20	4922-50L
15000	105.00	0.061	0.061	DN2344CT-ND	2.94	2.52	1.68	DN2344TR-ND	1075.20	4922-51L
18000	143.00	0.052	0.052	DN2345CT-ND	3.29	2.82	1.88	DN2345TR-ND	1203.20	4922-52L
22000	160.00	0.050	0.050	DN2346CT-ND	3.29	2.82	1.88	DN2346TR-ND	1203.20	4922-53L

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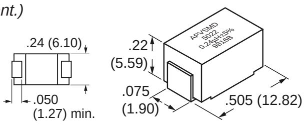
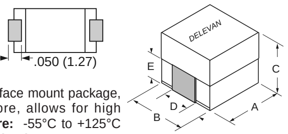
Series 5022 Surface Mount Inductors



Mechanical Configuration: Units are encapsulated in a surface mount package, using an epoxy molded case. **Operating Temperature:** -55°C to +125°C. **Current Rating at 90°C Ambient:** 35°C rise. **Maximum Power Dissipation at 90°C**: 0.405 Watts. **Weight Max.:** 1.5 grams

Ind. (µH) ± 5%	Q Min.	Test Freq. (MHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 800	API Delevan Part No.
Series 5022 Phenolic Core											
0.20	50	25.0	0.047	2790	DN2243CT-ND	2.73	2.34	1.56	DN2243TR-ND	998.40	5022-201J
0.56	50	25.0	0.135	1645	DN2254CT-ND	2.10	1.80	1.20	DN2254TR-ND	768.00	5022-561J
0.62	50	25.0	0.140	1615	DN2255CT-ND	2.10	1.80	1.20	DN2255TR-ND	768.00	5022-621J
1.00	50	25.0	0.290	1125	DN2260CT-ND	2.10	1.80	1.20	DN2260TR-ND	768.00	5022-102J
2.00	33	7.9	0.800	675	DN2267CT-ND	2.10	1.80	1.20	DN2267TR-ND	768.00	5022-202J
3.90	33	7.9	2.300	395	DN2274CT-ND	2.10	1.80	1.20	DN2274TR-ND	768.00	5022-392J
Series 5022 Iron Core											
13.0	65	2.5	1.200	520	DN2287CT-ND	2.31	1.98	1.32	DN2287TR-ND	844.80	5022-133J
100.0	50	2.5	4.500	275	DN2308CT-ND	2.49	2.13	1.42	DN2308TR-ND	908.80	5022-104J

Series 8532 Surface Mount Power Inductors

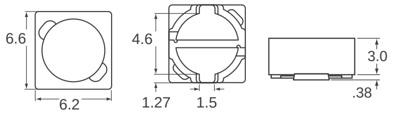


Mechanical Configuration: Units are encapsulated in a surface mount package, using an epoxy molded case. High resistivity ferrite core, allows for high inductance with low DC resistance. **Operating Temperature:** -55°C to +125°C **Current Rating:** 40°C rise over 85°C ambient **Power Dissipation at 85°C**: .50 Watts **Inductance:** Measured at 1 V with no DC current

Min to Max Dimensions–Inch (mm)				
A	**B**	**C (over terminals)**	**D**	**E**
.840 – .860 (21.34 – 21.84)	.310 to .330 (7.87 – 8.38)	.266 to .286 (6.76 – 7.26)	.070 to .110 (1.78 – 2.79)	.20 (Ref. Only) 5.08 (Ref. Only)

Induct. @ 1 kHz (µH)±15%	Max DC Resist. (Ohms)	Current Rating Max. (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 480	API Delevan Part No.
Series 8532 Ferrite Core, ±15%									
1.0	0.009	6.27	DN3201CT-ND	3.01	2.58	1.72	DN3201TR-ND	660.48	8532-01LTR
1.2	0.010	5.95	DN3202CT-ND	3.01	2.58	1.72	DN3202TR-ND	660.48	8532-02LTR
1.5	0.011	5.67	DN3203CT-ND	3.01	2.58	1.72	DN3203TR-ND	660.48	8532-03LTR
1.8	0.012	5.43	DN3204CT-ND	3.01	2.58	1.72	DN3204TR-ND	660.48	8532-04LTR
2.2	0.013	5.22	DN3205CT-ND	3.01	2.58	1.72	DN3205TR-ND	660.48	8532-05LTR
2.7	0.014	5.03	DN3206CT-ND	3.01	2.58	1.72	DN3206TR-ND	660.48	8532-06LTR
3.3	0.016	4.70	DN3207CT-ND	3.01	2.58	1.72	DN3207TR-ND	660.48	8532-07LTR
3.9	0.017	4.56	DN3208CT-ND	3.01	2.58	1.72	DN3208TR-ND	660.48	8532-08LTR
4.7	0.022	4.01	DN3209CT-ND	3.01	2.58	1.72	DN3209TR-ND	660.48	8532-09LTR
5.6	0.024	3.84	DN3210CT-ND	3.01	2.58	1.72	DN3210TR-ND	660.48	8532-10LTR
6.8	0.026	3.69	DN3211CT-ND	3.01	2.58	1.72	DN3211TR-ND	660.48	8532-11LTR
8.2	0.028	3.55	DN3212CT-ND	3.01	2.58	1.72	DN3212TR-ND	660.48	8532-12LTR
10.0	0.033	3.27	DN3213CT-ND	3.36	2.88	1.92	DN3213TR-ND	737.28	8532-13LTR
12.0	0.037	3.09	DN3214CT-ND	3.36	2.88	1.92	DN3214TR-ND	737.28	8532-14LTR
15.0	0.040	2.97	DN3215CT-ND	3.36	2.88	1.92	DN3215TR-ND	737.28	8532-15LTR
18.0	0.044	2.84	DN3216CT-ND	3.36	2.88	1.92	DN3216TR-ND	737.28	8532-16LTR
22.0	0.050	2.66	DN3217CT-ND	3.36	2.88	1.92	DN3217TR-ND	737.28	8532-17LTR
27.0	0.070	2.25	DN3218CT-ND	3.36	2.88	1.92	DN3218TR-ND	737.28	8532-18LTR
33.0	0.075	2.17	DN3219CT-ND	3.36	2.88	1.92	DN3219TR-ND	737.28	8532-19LTR
39.0	0.084	2.05	DN3220CT-ND	3.36	2.88	1.92	DN3220TR-ND	737.28	8532-20LTR
47.0	0.104	1.84	DN3221CT-ND	3.36	2.88	1.92	DN3221TR-ND	737.28	8532-21LTR
56.0	0.130	1.65	DN3222CT-ND	3.36	2.88	1.92	DN3222TR-ND	737.28	8532-22LTR
68.0	0.145	1.56	DN3223CT-ND	3.36	2.88	1.92	DN3223TR-ND	737.28	8532-23LTR
82.0	0.152	1.53	DN3224CT-ND	3.36	2.88	1.92	DN3224TR-ND	737.28	8532-24LTR
100.0	0.208	1.30	DN3225CT-ND	3.54	3.03	2.02	DN3225TR-ND	775.68	8532-25LTR
120.0	0.283	1.12	DN3226CT-ND	3.54	3.03	2.02	DN3226TR-ND	775.68	8532-26LTR
150.0	0.330	1.04	DN3227CT-ND	3.54	3.03	2.02	DN3227TR-ND	775.68	8532-27LTR
180.0	0.362	0.99	DN3228CT-ND	3.54	3.03	2.02	DN3228TR-ND	775.68	8532-28LTR
220.0	0.505	0.84	DN3229CT-ND	3.54	3.03	2.02	DN3229TR-ND	775.68	8532-29LTR
270.0	0.557	0.80	DN3230CT-ND	3.54	3.03	2.02	DN3230TR-ND	775.68	8532-30LTR
390.0	0.770	0.68	DN3232CT-ND	3.54	3.03	2.02	DN3232TR-ND	775.68	8532-32LTR
470.0	1.03	0.59	DN3233CT-ND	3.54	3.03	2.02	DN3233TR-ND	775.68	8532-33LTR
560.0	1.14	0.56	DN3234CT-ND	3.54	3.03	2.02	DN3234TR-ND	775.68	8532-34LTR
680.0	1.50	0.49	DN3235CT-ND	3.54	3.03	2.02	DN3235TR-ND	775.68	8532-35LTR
820.0	1.98	0.42	DN3236CT-ND	3.54	3.03	2.02	DN3236TR-ND	775.68	8532-36LTR
1000.0	2.30	0.39	DN3237CT-ND	3.75	3.21	2.14	DN3237TR-ND	821.76	8532-37LTR
1200.0	2.55	0.37	DN3238CT-ND	3.75	3.21	2.14	DN3238TR-ND	821.76	8532-38LTR
1500.0	3.00	0.34	DN3239CT-ND	3.75	3.21	2.14	DN3239TR-ND	821.76	8532-39LTR
1800.0	4.00	0.30	DN3240CT-ND	3.75	3.21	2.14	DN3240TR-ND	821.76	8532-40LTR
2200.0	4.40	0.28	DN3241CT-ND	3.75	3.21	2.14	DN3241TR-ND	821.76	8532-41LTR
2700.0	5.80	0.25	DN3242CT-ND	3.75	3.21	2.14	DN3242TR-ND	821.76	8532-42LTR
3300.0	6.56	0.23	DN3243CT-ND	3.75	3.21	2.14	DN3243TR-ND	821.76	8532-43LTR
3900.0	8.63	0.20	DN3244CT-ND	3.75	3.21	2.14	DN3244TR-ND	821.76	8532-44LTR
4700.0	10.1	0.19	DN3245CT-ND	3.75	3.21	2.14	DN3245TR-ND	821.76	8532-45LTR
5600.0	11.2	0.18	DN3246CT-ND	3.75	3.21	2.14	DN3246TR-ND	821.76	8532-46LTR
6800.0	15.0	0.15	DN3247CT-ND	3.75	3.21	2.14	DN3247TR-ND	821.76	8532-47LTR
8200.0	20.8	0.13	DN3248CT-ND	3.75	3.21	2.14	DN3248TR-ND	821.76	8532-48LTR
10000.0	23.4	0.12	DN3249CT-ND	3.75	3.21	2.14	DN3249TR-ND	821.76	8532-49LTR
12000.0	26.0	0.12	DN3250CT-ND	3.75	3.21	2.14	DN3250TR-ND	821.76	8532-50LTR
15000.0	36.0	0.10	DN3251CT-ND	3.75	3.21	2.14	DN3251TR-ND	821.76	8532-51LTR
18000.0	40.0	0.09	DN3252CT-ND	3.75	3.21	2.14	DN3252TR-ND	821.76	8532-52LTR

Series SPD62 Shielded Surface Mount Inductors



This low cost power choke is suitable for PDA, palmtop and other power management applications requiring small size, high current capacity, and a shielded winding to reduce EMI/RFI. The flat top construction lends itself to auto-insertion. **Operating Temperature Range:** -55°C to +125°C

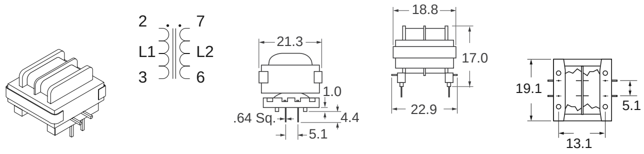
Ind. (µH) ± 20%	Test Freq. (KHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500	API Delevan Part No.
1.2	100	0.040	3.50	DN7500CT-ND	1.51	1.29	.86	DN7500TR-ND	602.00/M	SPD62-122M
2.4	100	0.045	2.80	DN7501CT-ND	1.51	1.29	.86	DN7501TR-ND	602.00/M	SPD62-242M
3.5	100	0.060	2.50	DN7502CT-ND	1.51	1.29	.86	DN7502TR-ND	602.00/M	SPD62-352M
4.7	100	0.070	2.00	DN7503CT-ND	1.51	1.29	.86	DN7503TR-ND	602.00/M	SPD62-472M
6.8	100	0.080	1.80	DN7504CT-ND	1.51	1.29	.86	DN7504TR-ND	602.00/M	SPD62-682M
10	100	0.12	1.40	DN7505CT-ND	1.51	1.29	.86	DN7505TR-ND	602.00/M	SPD62-103M
12	100	0.13	1.30	DN7506CT-ND	1.51	1.29	.86	DN7506TR-ND	602.00/M	SPD62-123M
15	1.0	0.15	1.20	DN7507CT-ND	1.51	1.29	.86	DN7507TR-ND	602.00/M	SPD62-153M
18	1.0	0.19	1.10	DN7508CT-ND	1.51	1.29	.86	DN7508TR-ND	602.00/M	SPD62-183M
22	1.0	0.20	1.00	DN7509CT-ND	1.51	1.29	.86	DN7509TR-ND	602.00/M	SPD62-223M
27	1.0	0.25	0.94	DN7510CT-ND	1.51	1.29	.86	DN7510TR-ND	602.00/M	SPD62-273M
33	1.0	0.28	0.82	DN7511CT-ND	1.51	1.29	.86	DN7511TR-ND	602.00/M	SPD62-333M
39	1.0	0.40	0.78	DN7512CT-ND	1.51	1.29	.86	DN7512TR-ND	602.00/M	SPD62-393M
47	1.0	0.44	0.70	DN7513CT-ND	1.51	1.29	.86	DN7513TR-ND	602.00/M	SPD62-473M
56	1.0	0.51	0.68	DN7514CT-ND	1.51	1.29	.86	DN7514TR-ND	602.00/M	SPD62-563M
68	1.0	0.64	0.56	DN7515CT-ND	1.51	1.29	.86	DN7515TR-ND	602.00/M	SPD62-683M
82	1.0	0.71	0.50	DN7516CT-ND	1.51	1.29	.86	DN7516TR-ND	602.00/M	SPD62-823M
100	1.0	0.81	0.41	DN7517CT-ND	1.51	1.29	.86	DN7517TR-ND	602.00/M	SPD62-104M
120	1.0	0.95	0.39	DN7518CT-ND	1.51	1.29	.86	DN7518TR-ND	602.00/M	SPD62-124M
150	1.0	1.07	0.37	DN7519CT-ND	1.51	1.29	.86	DN7519TR-ND	602.00/M	SPD62-154M
180	1.0	1.67	0.35	DN7520CT-ND	1.51	1.29	.86	DN7520TR-ND	602.00/M	SPD62-184M
220	1.0	1.89	0.32	DN7521CT-ND	1.51	1.29	.86	DN7521TR-ND	602.00/M	SPD62-224M
270	1.0	2.77	0.29	DN7522CT-ND	1.51	1.29	.86	DN7522TR-ND	602.00/M	SPD62-274M
330	1.0	3.30	0.22	DN7523CT-ND	1.51	1.29	.86	DN7523TR-ND	602.00/M	SPD62-334M

Series CM9900 PC Mount Common Mode Chokes

- **Operating Temperature Range:** -55°C to +125°C
- **Current Rating at 80°C Ambient:** 40°C rise
- **Mechanical Configuration:** Tape wrapped winding sections; varnish impregnated assembly

NOTES:

(1) Inductance in table is for either L1 or L2
(2) Leakage inductance tested at L1 with L2 shorted or at L2 with L1 shorted
(3) Windings balanced within 1%

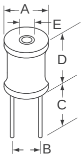


Induct-ance (µH) L1 or L2	Current Rating Max. (Amps)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
150	2.8	DN4606-ND	3.61	3.09	2.06	CM9900-154
820	1.1	DN4614-ND	3.61	3.09	2.06	CM9900-824
2200	.55	DN4619-ND	3.61	3.09	2.06	CM9900-225

(Continued)

API Delevan **Inductors** *(Cont.)*

Series DC 630 High Current Power Line Chokes

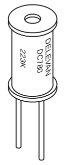


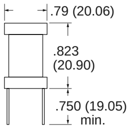
Physical Parameters – Inch (mm)				
A	**B**	**C**	**D**	**E**
0.630±0.030 (16.00±7.62)	.49 (12.45) Max.	0.750 (19.05) Min.	0.180±0.020 (4.57±5.08)	Clearance Hole for 4/40 Screw

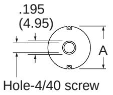
Nom. Induct. (µH)	Max. DCR (Ohms)	Max. Rated Current (A DC)	Lead Diameter In. (mm)	Digi-Key Part No.	Price Each 1	10	50	API Delevan Part No.
1.0	0.003	14.00	.051 (1.30)	DN3400-ND	5.12	4.65	4.47	DC630-102M
10.0	0.010	9.50	.051 (1.30)	DN3410-ND	5.89	5.35	5.14	DC630-103K
100	0.095	3.21	.029 (.74)	DN3422-ND	5.89	5.35	5.14	DC630-104K
12.0	0.011	9.10	.051 (1.30)	DN3411-ND	5.89	5.35	5.14	DC630-123K
120	0.100	3.12	.029 (.74)	DN3423-ND	5.89	5.35	5.14	DC630-124K
1.5	0.004	13.50	.051 (1.30)	DN3401-ND	5.12	4.65	4.47	DC630-152M
15.0	0.015	8.09	.045 (1.14)	DN3412-ND	5.89	5.35	5.14	DC630-153K
150	0.111	2.97	.029 (.74)	DN3424-ND	7.70	7.00	6.72	DC630-154K
18.0	0.020	7.00	.040 (1.02)	DN3413-ND	5.89	5.35	5.14	DC630-183K
180	0.125	2.80	.029 (.74)	DN3425-ND	7.70	7.00	6.72	DC630-184K
2.2	0.005	12.80	.051 (1.30)	DN3402-ND	5.12	4.65	4.47	DC630-222M
22.0	0.025	6.26	.040 (1.02)	DN3414-ND	5.89	5.35	5.14	DC630-223K
220	0.168	2.42	.025 (.64)	DN3426-ND	7.70	7.00	6.72	DC630-224K
2.7	0.005	12.80	.051 (1.30)	DN3403-ND	5.12	4.65	4.47	DC630-272M
27.0	0.030	5.72	.036 (.91)	DN3415-ND	5.89	5.35	5.14	DC630-273K
270	0.225	2.09	.023 (.58)	DN3427-ND	7.70	7.00	6.72	DC630-274K
3.3	0.005	12.80	.051 (1.30)	DN3404-ND	5.12	4.65	4.47	DC630-332M
33.0	0.040	4.95	.032 (.81)	DN3416-ND	5.89	5.35	5.14	DC630-333K
330	0.315	1.72	.020 (.51)	DN3428-ND	7.70	7.00	6.72	DC630-334K
3.9	0.006	12.30	.051 (1.30)	DN3405-ND	5.12	4.65	4.47	DC630-392M
39.0	0.050	4.43	.029 (.74)	DN3417-ND	5.89	5.35	5.14	DC630-393K
390	0.342	1.66	.020 (.51)	DN3429-ND	7.70	7.00	6.72	DC630-394K
4.7	0.007	11.70	.051 (1.30)	DN3406-ND	5.12	4.65	4.47	DC630-472M
47.0	0.062	3.98	.029 (.74)	DN3418-ND	5.89	5.35	5.14	DC630-473K
470	0.377	1.58	.020 (.51)	DN3430-ND	7.70	7.00	6.72	DC630-474K
5.6	0.007	11.70	.051 (1.30)	DN3407-ND	5.12	4.65	4.47	DC630-562M
56.0	0.069	3.77	.029 (.74)	DN3419-ND	5.89	5.35	5.14	DC630-563K
560	0.408	1.52	.020 (.51)	DN3431-ND	7.70	7.00	6.72	DC630-564K
6.8	0.008	10.50	.051 (1.30)	DN3408-ND	5.12	4.65	4.47	DC630-682M
68.0	0.077	3.57	.029 (.74)	DN3420-ND	5.89	5.35	5.14	DC630-683K
680	0.468	1.42	.020 (.51)	DN3432-ND	7.70	7.00	6.72	DC630-684K
8.2	0.009	10.00	.051 (1.30)	DN3409-ND	5.12	4.65	4.47	DC630-822M
82.0	0.083	3.44	.029 (.74)	DN3421-ND	5.89	5.35	5.14	DC630-823K

Series DC780 High Current Power Line Chokes

Mechanical Configuration: Ferrite Bobbin protected with a flame retardant polyolefin sleeve. Center hole allows for mechanical mounting. Insulated bobbins. **Operating Temperature:** -55°C to +125°C, -55°C to +80°C @ full rated current.



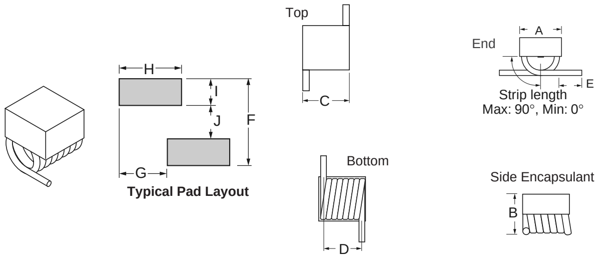




Nom. Induct. (µH)	Max. DCR (Ohms)	Max. Rated Current (A DC)	Dimension Inch (mm) A	Digi-Key Part No.	Price Each 1	10	50	API Delevan Part No.
Series DC780, ±15%								
1.0	0.003	11.4	.620 (15.748)	DN2400-ND	5.17	4.70	4.52	DC780-102L
1.2	0.003	11.4	.620 (15.748)	DN2401-ND	5.17	4.70	4.52	DC780-122L
1.5	0.003	11.4	.620 (15.748)	DN2402-ND	5.17	4.70	4.52	DC780-152L
1.8	0.003	11.4	.620 (15.748)	DN2403-ND	5.17	4.70	4.52	DC780-182L
2.2	0.004	11.4	.620 (15.748)	DN2404-ND	5.17	4.70	4.52	DC780-222L
2.7	0.005	11.4	.620 (15.748)	DN2405-ND	5.17	4.70	4.52	DC780-272L
3.3	0.005	11.4	.620 (15.748)	DN2406-ND	5.17	4.70	4.52	DC780-332L
3.9	0.005	11.4	.620 (15.748)	DN2407-ND	5.17	4.70	4.52	DC780-392L
4.7	0.005	11.4	.620 (15.748)	DN2408-ND	5.17	4.70	4.52	DC780-472L
5.6	0.006	11.4	.620 (15.748)	DN2409-ND	5.17	4.70	4.52	DC780-562L
6.8	0.007	11.4	.620 (15.748)	DN2410-ND	5.17	4.70	4.52	DC780-682L
8.2	0.007	11.4	.620 (15.748)	DN2411-ND	5.17	4.70	4.52	DC780-822L
Series DC780, ±10%								
10.0	0.009	11.4	.620 (15.748)	DN2412-ND	6.05	5.50	5.28	DC780-103K
12.0	0.009	11.4	.620 (15.748)	DN2413-ND	6.05	5.50	5.28	DC780-123K
15.0	0.013	9.0	.625 (15.875)	DN2414-ND	6.05	5.50	5.28	DC780-153K
18.0	0.018	7.2	.630 (16.002)	DN2415-ND	6.05	5.50	5.28	DC780-183K
22.0	0.019	7.2	.630 (16.002)	DN2416-ND	6.05	5.50	5.28	DC780-223K
27.0	0.026	5.5	.546 (13.868)	DN2417-ND	6.05	5.50	5.28	DC780-273K
33.0	0.029	5.5	.546 (13.868)	DN2418-ND	6.05	5.50	5.28	DC780-333K
39.0	0.030	5.5	.594 (15.087)	DN2419-ND	6.05	5.50	5.28	DC780-393K
47.0	0.035	5.5	.625 (15.875)	DN2420-ND	6.05	5.50	5.28	DC780-473K
56.0	0.039	5.5	.625 (15.875)	DN2421-ND	6.05	5.50	5.28	DC780-563K
68.0	0.053	4.8	.656 (16.662)	DN2422-ND	6.05	5.50	5.28	DC780-683K
82.0	0.060	4.8	.656 (16.662)	DN2423-ND	6.05	5.50	5.28	DC780-823K
100	0.080	4.0	.593 (15.062)	DN2424-ND	6.05	5.50	5.28	DC780-104K
120	0.090	4.0	.593 (15.062)	DN2425-ND	6.05	5.50	5.28	DC780-124K
150	0.098	4.0	.593 (15.062)	DN2426-ND	6.05	5.50	5.28	DC780-154K
180	0.110	4.0	.593 (15.062)	DN2427-ND	7.70	7.00	6.72	DC780-184K
220	0.150	2.8	.593 (15.062)	DN2428-ND	7.70	7.00	6.72	DC780-224K
270	0.213	2.0	.562 (14.274)	DN2429-ND	7.70	7.00	6.72	DC780-274K
330	0.305	1.6	.590 (14.986)	DN2430-ND	7.70	7.00	6.72	DC780-334K
390	0.320	1.6	.590 (14.986)	DN2431-ND	7.70	7.00	6.72	DC780-394K
470	0.355	1.6	.590 (14.986)	DN2432-ND	7.70	7.00	6.72	DC780-474K
560	0.388	1.6	.590 (14.986)	DN2433-ND	7.70	7.00	6.72	DC780-564K
680	0.430	1.6	.590 (14.986)	DN2434-ND	7.70	7.00	6.72	DC780-684K
820	0.590	1.3	.590 (14.986)	DN2435-ND	7.70	7.00	6.72	DC780-824K
1000	0.818	1.0	.590 (14.986)	DN2436-ND	7.70	7.00	6.72	DC780-105K
1200	1.140	0.8	.590 (14.986)	DN2437-ND	7.70	7.00	6.72	DC780-125K
1500	1.260	0.8	.590 (14.986)	DN2438-ND	7.70	7.00	6.72	DC780-155K
1800	1.390	0.8	.590 (14.986)	DN2439-ND	7.70	7.00	6.72	DC780-185K
2200	1.540	0.8	.590 (14.986)	DN2440-ND	7.70	7.00	6.72	DC780-225K

Series 4426 Surface Mount Air Core Inductors

High Q, wire wound air cores over a wide frequency range. Flat cap top is suitable for automatic placement.



	Size A		Size B	
	(inch)	(mm)	(inch)	(mm)
A Max	.120	3.05	.120	3.05
B Max	.125	3.18	.125	3.18
C Max	.145	3.68	.270	6.86
D	.115±.010	2.92±.25	.230±.010	5.84±.25
E	.05±.015	1.27±.38	.05±.015	1.27±.38
F	.165	4.19	.285	7.23
G	.110	2.79	.110	2.79
H	.130	3.30	.130	3.30
I	.050	1.27	.050	1.27
J	.065	1.65	.185	4.69

Size Code	Induct. (nH)	Turns	Q Min.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	API Delevan Part No.
Series 4426 Air Core Inductors											
A	2.5±10%	1	145	DN4001CT-ND	.60	.51	.34	DN4001TR-ND	650	218.40	4426-1
	5.0±10%	2	140	DN4002CT-ND	.60	.51	.34	DN4002TR-ND	650	218.40	4426-2
	8.0±5%	3	140	DN4003CT-ND	.60	.51	.34	DN4003TR-ND	650	218.40	4426-3
	12.5±5%	4	137	DN4004CT-ND	.60	.51	.34	DN4004TR-ND	650	218.40	4426-4
	18.5±5%	5	132	DN4005CT-ND	.60	.51	.34	DN4005TR-ND	650	218.40	4426-5
B	17.5±5%	6	100	DN4006CT-ND	.60	.51	.34	DN4006TR-ND	400	134.40	4426-6
	22.0±5%	7	102	DN4007CT-ND	.60	.51	.34	DN4007TR-ND	400	134.40	4426-7
	28.0±5%	8	105	DN4008CT-ND	.60	.51	.34	DN4008TR-ND	400	134.40	4426-8
	35.5±5%	9	112	DN4009CT-ND	.60	.51	.34	DN4009TR-ND	400	134.40	4426-9
	43.0±5%	10	106	DN4010CT-ND	.60	.51	.34	DN4010TR-ND	400	134.40	4426-10

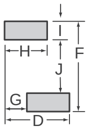
4426KIT-ND (API Delevan Part No. 4426KIT)
Series 4426 Inductor Kit. 5 each of 10 values (2.5nH to 43nH), 50 total pieces........................**$25.50**

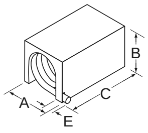
(Continued)

Series 5526 Air Core Inductors

High Q, wire wound air cores. Designed to operate over a wide frequency range.

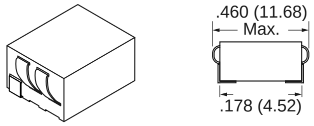
Physical Parameters Size A (mm)	
A Max	6.35
B Max	5.97
C Max	10.55
D	7.98±0.051
E	1.27±0.39
F	10.00
G	2.42
H	4.70
I	2.40
J	5.95

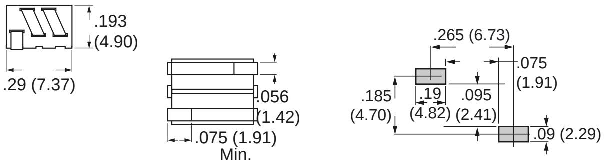




Induct. (nH) ±5%	Turns	Q Min.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 800	API Delevan Part No.
90	9	95	DN4011CT-ND	1.48	1.27	.85	DN4011TR-ND	541.44	5526-1
111	10	87	DN4012CT-ND	1.48	1.27	.85	DN4012TR-ND	541.44	5526-2
130	11	87	DN4013CT-ND	1.48	1.27	.85	DN4013TR-ND	541.44	5526-3
169	12	95	DN4014CT-ND	1.48	1.27	.85	DN4014TR-ND	541.44	5526-4
206	13	95	DN4015CT-ND	1.48	1.27	.85	DN4015TR-ND	541.44	5526-5
222	14	92	DN4016CT-ND	1.48	1.27	.85	DN4016TR-ND	541.44	5526-6
246	15	95	DN4017CT-ND	1.48	1.27	.85	DN4017TR-ND	541.44	5526-7
307	16	95	DN4018CT-ND	1.48	1.27	.85	DN4018TR-ND	541.44	5526-8
380	17	95	DN4019CT-ND	1.48	1.27	.85	DN4019TR-ND	541.44	5526-9
420	18	95	DN4020CT-ND	1.48	1.27	.85	DN4020TR-ND	541.44	5526-10
491	19	95	DN4021CT-ND	1.48	1.27	.85	DN4021TR-ND	541.44	5526-11
538	20	87	DN4022CT-ND	1.48	1.27	.85	DN4022TR-ND	541.44	5526-12

Series SMB 2.5 Surface Mount Shield Beads





Operating Temperature Range: –40°C to +125°C

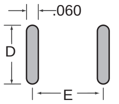
API Delevan Part No.	Turns	Minimum Impedance (Ohms). 10 MHz	100 MHz	150 MHz	220 MHz	Idc Max. (Amps)	DCR Max. (Ohms)
SMB2.5-1	2 1/2	210	385	400	375	9.5	0.005
SMB2.5-2	2 1/2	NA	490	635	650	9.5	0.005

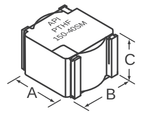
Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape & Reel Pricing 700	API Delevan Part No.
DN4700CT-ND	.77	.66	.44	DN4700TR-ND	246.40	SMB2.5-1
DN4701CT-ND	.77	.66	.44	DN4701TR-ND	246.40	SMB2.5-2

Series PTHF-SM and PTKM-SM Surface Mount Toroidal Power Chokes

Excellent electromagnetic shielding performance for commercial and industrial applications

- Cost-effective surface mount design
- For Higher saturation levels use Series PTHF-SM
- Current rating from 0.92 to 7.36 amps
- Inductance values from 10µH to 330µH





Inductance (µH) ±10% @ 1KHz	DC Resistance Maximum (OHMS)	Current Rating	Dimensions - mm A Max.	B Max.	C Max.	D Nom.	E Nom.	Digi-Key Part No.	Price Each 1	10	50	100	API Delevan Part No.
						Series PTHF-SM High Saturation Core							
100	0.30	0.92	8.636	8.636	7.62	7.62	7.62	DN3369-ND	11.06	9.48	7.90	6.32	PTHF100-180SM
100	0.15	1.50	11.18	11.18	10.16	10.16	10.16	DN3361-ND	10.47	8.97	7.48	5.98	PTHF100-30SM
100	0.16	1.60	14.48	14.22	10.16	12.70	12.70	DN3353-ND	12.60	10.80	9.00	7.20	PTHF100-40SM
100	0.06	3.14	17.78	17.02	10.16	15.24	15.24	DN3344-ND	11.31	9.69	8.08	6.46	PTHF100-50SM
10	0.10	1.60	8.636	8.636	7.62	7.62	7.62	DN3365-ND	11.06	9.48	7.90	6.32	PTHF10-180SM
10	0.05	2.56	11.18	11.18	10.16	10.16	10.16	DN3357-ND	10.47	8.97	7.48	5.98	PTHF10-30SM
10	0.02	4.84	14.48	14.22	10.16	12.70	12.70	DN3349-ND	12.60	10.80	9.00	7.20	PTHF10-40SM
10	0.01	7.36	17.78	17.02	10.16	15.24	15.24	DN3340-ND	11.31	9.69	8.08	6.46	PTHF10-50SM
150	0.19	1.33	11.18	11.18	10.16	10.16	10.16	DN3362-ND	10.47	8.97	7.48	5.98	PTHF150-30SM
150	0.19	1.45	14.48	14.22	10.16	12.70	12.70	DN3354-ND	12.60	10.80	9.00	7.20	PTHF150-40SM
150	0.10	2.33	17.78	17.02	10.16	15.24	15.24	DN3345-ND	11.31	9.69	8.08	6.46	PTHF150-50SM
200	0.30	1.04	11.18	11.18	10.16	10.16	10.16	DN3363-ND	10.47	8.97	7.48	5.98	PTHF200-30SM
200	0.32	1.12	14.48	14.22	10.16	12.70	12.70	DN3355-ND	12.60	10.80	9.00	7.20	PTHF200-40SM
200	0.14	1.97	17.78	17.02	10.16	15.24	15.24	DN3346-ND	11.31	9.69	8.08	6.46	PTHF200-50SM
250	0.36	0.96	11.18	11.18	10.16	10.16	10.16	DN3364-ND	10.47	8.97	7.48	5.98	PTHF250-30SM
250	0.36	1.05	14.48	14.22	10.16	12.70	12.70	DN3356-ND	12.60	10.80	9.00	7.20	PTHF250-40SM
250	0.16	1.84	17.78	17.02	10.16	15.24	15.24	DN3347-ND	11.31	9.69	8.08	6.46	PTHF250-50SM
25	0.15	1.33	8.636	8.636	7.62	7.62	7.62	DN3366-ND	11.06	9.48	7.90	6.32	PTHF25-180SM
25	0.07	2.16	11.18	11.18	10.16	10.16	10.16	DN3358-ND	10.47	8.97	7.48	5.98	PTHF25-30SM
25	0.04	3.38	14.48	14.22	10.16	12.70	12.70	DN3350-ND	12.60	10.80	9.00	7.20	PTHF25-40SM
25	0.02	5.20	17.78	17.02	10.16	15.24	15.24	DN3341-ND	11.31	9.69	8.08	6.46	PTHF25-50SM
330	0.19	1.69	17.78	17.02	10.16	15.24	15.24	DN3348-ND	11.31	9.69	8.08	6.46	PTHF330-50SM
50	0.21	1.12	8.636	8.636	7.62	7.62	7.62	DN3367-ND	11.06	9.48	7.90	6.32	PTHF50-180SM
50	0.10	1.81	11.18	11.18	10.16	10.16	10.16	DN3359-ND	10.47	8.97	7.48	5.98	PTHF50-30SM
50	0.11	1.90	14.48	14.22	10.16	12.70	12.70	DN3351-ND	12.60	10.80	9.00	7.20	PTHF50-40SM
50	0.04	3.93	17.78	17.02	10.16	15.24	15.24	DN3342-ND	11.31	9.69	8.08	6.46	PTHF50-50SM
75	0.26	0.99	8.636	8.636	7.62	7.62	7.62	DN3368-ND	11.03	9.45	7.88	6.30	PTHF75-180SM
75	0.13	1.62	11.18	11.18	10.16	10.16	10.16	DN3360-ND	10.47	8.97	7.48	5.98	PTHF75-30SM
75	0.14	1.69	14.48	14.22	10.16	12.70	12.70	DN3352-ND	12.60	10.80	9.00	7.20	PTHF75-40SM
75	0.05	3.47	17.78	17.02	10.16	15.24	15.24	DN3343-ND	11.31	9.69	8.08	6.46	PTHF75-50SM
						Series PTKM-SM Ferrous Alloy Core							
100	0.30	0.92	8.636	8.636	7.62	7.62	7.62	DN3399-ND	7.11	6.09	5.08	4.06	PTKM100-180SM
100	0.15	1.50	11.18	11.18	10.16	10.16	10.16	DN3391-ND	5.92	5.07	4.23	3.38	PTKM100-30SM
100	0.16	1.60	14.48	14.22	10.16	12.70	12.70	DN3383-ND	8.61	7.38	6.15	4.92	PTKM100-40SM
100	0.06	3.14	17.78	17.02	10.16	15.24	15.24	DN3374-ND	8.26	7.08	5.90	4.72	PTKM100-50SM
10	0.10	1.60	8.636	8.636	7.62	7.62	7.62	DN3395-ND	7.11	6.09	5.08	4.06	PTKM10-180SM
10	0.05	2.56	11.18	11.18	10.16	10.16	10.16	DN3387-ND	5.92	5.07	4.23	3.38	PTKM10-30SM
10	0.02	4.84	14.48	14.22	10.16	12.70	12.70	DN3379-ND	8.61	7.38	6.15	4.92	PTKM10-40SM
10	0.01	7.36	17.78	17.02	10.16	15.240	15.24	DN3370-ND	8.26	7.08	5.90	4.72	PTKM10-50SM
150	0.19	1.33	11.18	11.18	10.16	10.16	10.16	DN3392-ND	5.92	5.07	4.23	3.38	PTKM150-30SM
150	0.19	1.45	14.48	14.22	10.16	12.70	12.70	DN3384-ND	8.61	7.38	6.15	4.92	PTKM150-40SM
150	0.10	2.33	17.78	17.02	10.16	15.24	15.24	DN3375-ND	8.26	7.08	5.90	4.72	PTKM150-50SM
200	0.30	1.04	11.18	11.18	10.16	10.16	10.16	DN3393-ND	5.92	5.07	4.23	3.38	PTKM200-30SM
200	0.32	1.12	14.48	14.22	10.16	12.70	12.70	DN3385-ND	8.61	7.38	6.15	4.92	PTKM200-40SM
200	0.14	1.97	17.78	17.02	10.16	15.24	15.24	DN3376-ND	8.26	7.08	5.90	4.72	PTKM200-50SM
250	0.36	0.96	11.18	11.18	10.16	10.16	10.16	DN3394-ND	5.92	5.07	4.23	3.38	PTKM250-30SM
250	0.36	1.05	14.48	14.22	10.16	12.70	12.70	DN3386-ND	8.61	7.38	6.15	4.92	PTKM250-40SM
250	0.16	1.84	17.78	17.02	10.16	15.24	15.24	DN3377-ND	8.26	7.08	5.90	4.72	PTKM250-50SM
25	0.15	1.33	8.636	8.636	7.62	7.62	7.62	DN3396-ND	7.11	6.09	5.08	4.06	PTKM25-180SM
25	0.07	2.16	11.18	11.18	10.16	10.16	10.16	DN3388-ND	5.92	5.07	4.23	3.38	PTKM25-30SM
25	0.04	3.38	14.48	14.22	10.16	12.70	12.70	DN3380-ND	8.61	7.38	6.15	4.92	PTKM25-40SM
25	0.02	5.20	17.78	17.02	10.16	15.24	15.24	DN3371-ND	8.26	7.08	5.90	4.72	PTKM25-50SM
330	0.19	1.69	17.78	17.02	10.16	15.24	15.24	DN3378-ND	8.26	7.08	5.90	4.72	PTKM330-50SM
50	0.21	1.12	8.636	8.636	7.62	7.62	7.62	DN3397-ND	7.11	6.09	5.08	4.06	PTKM50-180SM
50	0.10	1.81	11.18	11.18	10.16	10.16	10.16	DN3389-ND	5.92	5.07	4.23	3.38	PTKM50-30SM
50	0.11	1.90	14.48	14.22	10.16	12.70	12.70	DN3381-ND	8.61	7.38	6.15	4.92	PTKM50-40SM
50	0.04	3.93	17.78	17.02	10.16	15.24	15.24	DN3372-ND	8.26	7.08	5.90	4.72	PTKM50-50SM
75	0.26	0.99	8.636	8.636	7.62	7.62	7.62	DN3398-ND	7.11	6.09	5.08	4.06	PTKM75-180SM
75	0.13	1.62	11.18	11.18	10.16	10.16	10.16	DN3390-ND	5.92	5.07	4.23	3.38	PTKM75-30SM
75	0.14	1.69	14.48	14.22	10.16	12.70	12.70	DN3382-ND	8.61	7.38	6.15	4.92	PTKM75-40SM
75	0.05	3.47	17.78	17.02	10.16	15.24	15.24	DN3373-ND	8.26	7.08	5.90	4.72	PTKM75-50SM

TDK Inductors

NL and NLC Series

NL Series:
These revolutionary, high reliability leadless (wound chip) inductors have been developed in response to the trend toward higher density mounting of parts in electronic circuits. Since metal terminals are used as the electrodes and the body is molded of heat resistant resin, these inductors offer many superior features.
Operating temperature: -20° to 85°C (-4° to +185°F)

NLC Series:
Designed to be used on power lines and support rated current in the range from 60 to 1800mA. NLC Series has only half as much DC resistance and twice as much DC current.
Operating temperature:
-20° to 85°C (-4° to +185°F)

Fig. 1 NL2520 & NLC2520 (EIA1008)

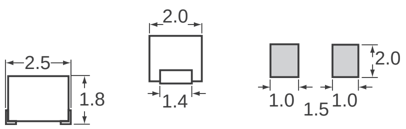


Fig. 2 NL3225 & NLC3225 (EIA1210)

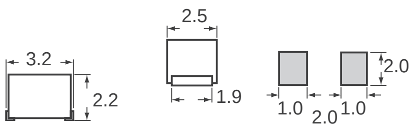
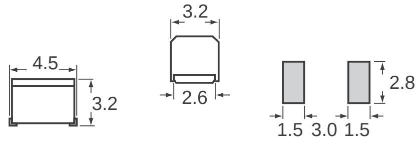


Fig. 3 NL4532 & NLC4532 (EIA1812)



Inductance (µH)	Test Freq. (MHz)	DC Res. (Ω) max.	Rated Current (mA) max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R§ Pricing 2,000	TDK Part No.
Fig. 1 NL2520 Series ± 5% Inductance Tolerance									
.01	100	0.26	530	445-1072-1-ND	.42	.39	.33	117.00/M	NL252018T-010J
.015	100	0.29	480	445-1073-1-ND	.42	.39	.33	117.00/M	NL252018T-015J
.022	100	0.37	420	445-1074-1-ND	.42	.39	.33	117.00/M	NL252018T-022J
.033	100	0.42	400	445-1075-1-ND	.42	.39	.33	117.00/M	NL252018T-033J
.047	100	0.5	360	445-1076-1-ND	.42	.39	.33	117.00/M	NL252018T-047J
.068	100	0.65	320	445-1077-1-ND	.42	.39	.33	117.00/M	NL252018T-068J
0.1	100	0.8	280	445-1078-1-ND	.42	.39	.33	117.00/M	NL252018T-R10J
0.15	25.2	0.35	500	445-1079-1-ND	.42	.39	.33	117.00/M	NL252018T-R15J
0.22	25.2	0.5	430	445-1080-1-ND	.42	.39	.33	117.00/M	NL252018T-R22J
0.33	25.2	0.6	400	445-1081-1-ND	.42	.39	.33	117.00/M	NL252018T-R33J
0.47	25.2	0.68	350	445-1082-1-ND	.42	.39	.33	117.00/M	NL252018T-R47J
0.68	25.2	0.85	300	445-1083-1-ND	.42	.39	.33	117.00/M	NL252018T-R68J
1	7.96	1.1	245	445-1084-1-ND	.42	.39	.33	117.00/M	NL252018T-1R0J
1.5	7.96	1.3	220	445-1085-1-ND	.42	.39	.33	117.00/M	NL252018T-1R5J
2.2	7.96	1.55	200	445-1086-1-ND	.42	.39	.33	117.00/M	NL252018T-2R2J
3.3	7.96	1.9	185	445-1087-1-ND	.42	.39	.33	117.00/M	NL252018T-3R3J
4.7	7.96	2.3	175	445-1088-1-ND	.42	.39	.33	117.00/M	NL252018T-4R7J
6.8	7.96	2.7	165	445-1089-1-ND	.42	.39	.33	117.00/M	NL252018T-6R8J
10	2.52	3.5	155	445-1090-1-ND	.42	.39	.33	117.00/M	NL252018T-100J
15	2.52	4.4	140	445-1091-1-ND	.42	.39	.33	117.00/M	NL252018T-150J
22	2.52	5.5	125	445-1092-1-ND	.42	.39	.33	117.00/M	NL252018T-220J
33	2.52	7.1	110	445-1093-1-ND	.42	.39	.33	117.00/M	NL252018T-330J
47	2.52	11.1	80	445-1094-1-ND	.42	.39	.33	117.00/M	NL252018T-470J
68	2.52	16.6	70	445-1095-1-ND	.42	.39	.33	117.00/M	NL252018T-680J
100	0.796	21	60	445-1096-1-ND	.42	.39	.33	117.00/M	NL252018T-101J
Fig. 2 NL3225 ± 5% Inductance Tolerance									
.01	100	0.13	450	445-1097-1-ND	.38	.35	.30	104.94/M	NL322522T-010J
.015	100	0.16	450	445-1098-1-ND	.38	.35	.30	104.94/M	NL322522T-015J
.022	100	0.2	450	445-1099-1-ND	.38	.35	.30	104.94/M	NL322522T-022J
.033	100	0.24	450	445-1100-1-ND	.38	.35	.30	104.94/M	NL322522T-033J
.047	100	0.3	450	445-1101-1-ND	.38	.35	.30	104.94/M	NL322522T-047J
.068	100	0.36	450	445-1102-1-ND	.38	.35	.30	104.94/M	NL322522T-068J
0.1	100	0.44	450	445-1103-1-ND	.38	.35	.30	104.94/M	NL322522T-R10J
0.15	25.2	0.25	450	445-1104-1-ND	.38	.35	.30	104.94/M	NL322522T-R15J
0.22	25.2	0.32	450	445-1105-1-ND	.38	.35	.30	104.94/M	NL322522T-R22J
0.33	25.2	0.4	450	445-1106-1-ND	.38	.35	.30	104.94/M	NL322522T-R33J
0.47	25.2	0.5	450	445-1107-1-ND	.38	.35	.30	104.94/M	NL322522T-R47J
0.68	25.2	0.6	450	445-1108-1-ND	.38	.35	.30	104.94/M	NL322522T-R68J
1	7.96	0.7	400	445-1109-1-ND	.38	.35	.30	104.94/M	NL322522T-1R0J
1.5	7.96	0.85	370	445-1110-1-ND	.38	.35	.30	104.94/M	NL322522T-1R5J
2.2	7.96	1	320	445-1111-1-ND	.38	.35	.30	104.94/M	NL322522T-2R2J
3.3	7.96	1.2	260	445-1112-1-ND	.38	.35	.30	104.94/M	NL322522T-3R3J
4.7	7.96	1.5	220	445-1113-1-ND	.38	.35	.30	104.94/M	NL322522T-4R7J
6.8	7.96	1.8	180	445-1114-1-ND	.38	.35	.30	104.94/M	NL322522T-6R8J
10	2.52	2.1	150	445-1115-1-ND	.38	.35	.30	104.94/M	NL322522T-100J
15	2.52	2.8	130	445-1116-1-ND	.38	.35	.30	104.94/M	NL322522T-150J
22	2.52	3.7	110	445-1117-1-ND	.38	.35	.30	104.94/M	NL322522T-220J
33	2.52	5.6	70	445-1118-1-ND	.38	.35	.30	104.94/M	NL322522T-330J
47	2.52	7	60	445-1119-1-ND	.38	.35	.30	104.94/M	NL322522T-470J
68	2.52	9	50	445-1120-1-ND	.38	.35	.30	104.94/M	NL322522T-680J
100	0.796	10	40	445-1121-1-ND	.38	.35	.30	104.94/M	NL322522T-101J
150	0.796	15	65	445-1122-1-ND	.38	.35	.30	104.94/M	NL322522T-151J
220	0.796	21	50	445-1123-1-ND	.38	.35	.30	104.94/M	NL322522T-221J
330	0.796	34	40	445-1124-1-ND	.38	.35	.30	104.94/M	NL322522T-331J
470	0.796	40	25	445-1125-1-ND	.38	.35	.30	104.94/M	NL322522T-471J

Inductance (µH)	Test Freq. (MHz)	DC Res. (Ω) max.	Rated Current (mA) max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R§ Pricing 500	TDK Part No.
Fig. 3 NL4532 ± 5% Inductance Tolerance									
330	0.796	14	85	445-1126-1-ND	.55	.45	.30	87.50	NL453232T-331J
470	0.796	26	62	445-1127-1-ND	.55	.45	.30	87.50	NL453232T-471J
680	0.796	30	50	445-1128-1-ND	.55	.45	.30	87.50	NL453232T-681J
1000	0.252	40	30	445-1129-1-ND	.55	.45	.30	87.50	NL453232T-102J

Inductance (µH)	Test Freq. (MHz)	DC Res. (Ω) max.	Rated Current (mA) max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R§ Pricing 2,000	TDK Part No.
Fig. 1 NLC2520 ± 20% Inductance Tolerance									
1	7.96	0.34	475	445-1130-1-ND	.41	.38	.32	113.40/M	NLC252018T-1R0M
1.5	7.96	0.42	435	445-1131-1-ND	.41	.38	.32	113.40/M	NLC252018T-1R5M
2.2	7.96	0.5	390	445-1132-1-ND	.41	.38	.32	113.40/M	NLC252018T-2R2M
3.3	7.96	0.65	340	445-1133-1-ND	.41	.38	.32	113.40/M	NLC252018T-3R3M
4.7	7.96	0.8	285	445-1134-1-ND	.41	.38	.32	113.40/M	NLC252018T-4R7M
6.8	7.96	1	275	445-1135-1-ND	.41	.38	.32	113.40/M	NLC252018T-6R8M
10	2.52	1.69	210	445-1136-1-ND‡	.41	.38	.32	113.40/M	NLC252018T-100K
15	2.52	2.2	175	445-1137-1-ND‡	.41	.38	.32	113.40/M	NLC252018T-150K
22	2.52	2.8	160	445-1138-1-ND‡	.41	.38	.32	113.40/M	NLC252018T-220K
33	2.52	4.2	120	445-1139-1-ND‡	.41	.38	.32	113.40/M	NLC252018T-330K
Fig. 2 NLC3225 ± 10% Inductance Tolerance									
1	7.96	0.08	850	445-1140-1-ND*	.36	.34	.29	100.98/M	NLC322522T-1R0M
1.5	7.96	0.11	700	445-1141-1-ND*	.36	.34	.29	100.98/M	NLC322522T-1R5M
2.2	7.96	0.13	600	445-1142-1-ND*	.36	.34	.29	100.98/M	NLC322522T-2R2M
3.3	7.96	0.16	500	445-1143-1-ND*	.36	.34	.29	100.98/M	NLC322522T-3R3M
4.7	7.96	0.2	430	445-1144-1-ND*	.36	.34	.29	100.98/M	NLC322522T-4R7M
6.8	7.96	0.27	360	445-1145-1-ND*	.36	.34	.29	100.98/M	NLC322522T-6R8M
10	2.52	0.36	300	445-1146-1-ND	.36	.34	.29	100.98/M	NLC322522T-100K
15	2.52	0.56	250	445-1147-1-ND	.36	.34	.29	100.98/M	NLC322522T-150K
22	2.52	0.77	210	445-1148-1-ND	.36	.34	.29	100.98/M	NLC322522T-220K
33	2.52	1.1	170	445-1149-1-ND	.36	.34	.29	100.98/M	NLC322522T-330K
47	2.52	1.64	150	445-1150-1-ND	.36	.34	.29	100.98/M	NLC322522T-470K
68	2.52	2.8	120	445-1151-1-ND	.36	.34	.29	100.98/M	NLC322522T-680K
100	0.796	3.7	100	445-1152-1-ND	.36	.34	.29	100.98/M	NLC322522T-101K
150	0.796	6.1	85	445-1153-1-ND	.36	.34	.29	100.98/M	NLC322522T-151K
220	0.796	8.4	70	445-1154-1-ND	.36	.34	.29	100.98/M	NLC322522T-221K
330	0.796	12.3	60	445-1155-1-ND	.36	.34	.29	100.98/M	NLC322522T-331K
470	0.796	22	45	445-1156-1-ND	.36	.34	.29	100.98/M	NLC322522T-471K
680	0.796	28	35	445-1157-1-ND	.36	.34	.29	100.98/M	NLC322522T-681K

Inductance (µH)	Test Freq. (MHz)	DC Res. (Ω) max.	Rated Current (mA) max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R§ Pricing 500	TDK Part No.
Fig. 3 NLC4532 ± 10% Inductance Tolerance									
1	7.96	0.11	1050	445-1158-1-ND	.55	.45	.30	87.50	NLC453232T-1R0K
1.5	7.96	0.15	950	445-1159-1-ND	.55	.45	.30	87.50	NLC453232T-1R5K
2.2	7.96	0.18	850	445-1160-1-ND	.55	.45	.30	87.50	NLC453232T-2R2K
3.3	7.96	0.22	750	445-1161-1-ND	.55	.45	.30	87.50	NLC453232T-3R3K
4.7	7.96	0.27	650	445-1162-1-ND	.55	.45	.30	87.50	NLC453232T-4R7K
6.8	7.96	0.35	600	445-1163-1-ND	.55	.45	.30	87.50	NLC453232T-6R8K
10	2.52	0.5	550	445-1164-1-ND	.55	.45	.30	87.50	NLC453232T-100K
15	2.52	0.7	450	445-1165-1-ND	.55	.45	.30	87.50	NLC453232T-150K
22	2.52	0.9	370	445-1166-1-ND	.55	.45	.30	87.50	NLC453232T-220K
33	2.52	1.4	300	445-1167-1-ND	.55	.45	.30	87.50	NLC453232T-330K
47	2.52	1.9	260	445-1168-1-ND	.55	.45	.30	87.50	NLC453232T-470K
68	2.52	2.6	220	445-1169-1-ND	.55	.45	.30	87.50	NLC453232T-680K
100	0.796	4	180	445-1170-1-ND	.55	.45	.30	87.50	NLC453232T-101K
150	0.796	6.5	140	445-1171-1-ND	.55	.45	.30	87.50	NLC453232T-151K
220	0.796	9	120	445-1172-1-ND	.55	.45	.30	87.50	NLC453232T-221K
330	0.796	13	90	445-1173-1-ND	.55	.45	.30	87.50	NLC453232T-331K

§ For Tape and Reel Part Number change the -1-ND to -2-ND ‡ Inductance Tolerance ±10% *Inductance Tolerance ±20%

Inductors

MLF Series - Magnetic Shielded Inductor

TDK's MLF multilayer chip inductor combines high performance with the most compact design available today. MLF inductor's multilayer technology utilizes ferrite paste and electric conductor paste layered in a monolithic structure. Sintering of ferrite and electric conductors forms a perfect closed magnetic circuit and a magnetic shield. Magnetic shielding is ideally suited for high density circuit application in disk drives, personal computers, measuring equipment, and telephone equipment. Operating temperature range is -25°C to +85°C

Fig. 1 MLF1608 (EIA0603)

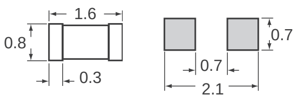
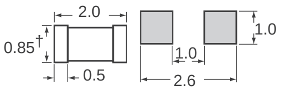


Fig. 2 MLF2012 (EIA0805)



† See part numbers listed below thickness is 1.25mm

Inductance (μH)	Test Freq. (MHz)	DC Res. (Ω) max.	Rated Current (mA) max.	Digi-Key Part No.	Cut Tape Price Each			T&R§ Pricing 4,000	TDK Part No.
					1	10	100		
Fig. 1 MLF1608 ± 10% Inductance Tolerance									
0.047	50	0.3	50	445-1000-1-ND*	.44	.41	.34	119.00/M	MLF1608D47NM
0.068	50	0.3	50	445-1001-1-ND*	.44	.41	.34	119.00/M	MLF1608D68NM
0.082	50	0.3	50	445-1002-1-ND*	.44	.41	.34	119.00/M	MLF1608D82NM
0.1	25	0.5	50	445-1003-1-ND	.44	.41	.34	119.00/M	MLF1608DR10K
0.12	25	0.5	50	445-1004-1-ND	.44	.41	.34	119.00/M	MLF1608DR12K
0.15	25	0.6	50	445-1005-1-ND	.44	.41	.34	119.00/M	MLF1608DR15K
0.18	25	0.6	50	445-1006-1-ND	.44	.41	.34	119.00/M	MLF1608DR18K
0.22	25	0.8	50	445-1007-1-ND	.44	.41	.34	119.00/M	MLF1608DR22K
0.27	25	0.8	50	445-1008-1-ND	.44	.41	.34	119.00/M	MLF1608DR27K
0.33	25	0.85	35	445-1009-1-ND	.44	.41	.34	119.00/M	MLF1608DR33K
0.39	25	1	35	445-1010-1-ND	.44	.41	.34	119.00/M	MLF1608DR39K
0.47	25	1.35	35	445-1011-1-ND	.44	.41	.34	119.00/M	MLF1608DR47K
0.56	25	1.55	35	445-1012-1-ND	.44	.41	.34	119.00/M	MLF1608DR56K
0.68	25	1.7	35	445-1013-1-ND	.44	.41	.34	119.00/M	MLF1608DR68K
1.2	10	0.8	25	445-1014-1-ND	.44	.41	.34	119.00/M	MLF1608A1R2K
1.5	10	0.8	25	445-1015-1-ND	.44	.41	.34	119.00/M	MLF1608A1R5K
1.8	10	0.95	25	445-1016-1-ND	.44	.41	.34	119.00/M	MLF1608A1R8K
2.2	10	1.15	15	445-1017-1-ND	.44	.41	.34	119.00/M	MLF1608A2R2K
2.7	10	1.35	15	445-1018-1-ND	.44	.41	.34	119.00/M	MLF1608A2R7K
3.3	10	1.55	15	445-1019-1-ND	.44	.41	.34	119.00/M	MLF1608A3R3K
3.9	10	1.7	15	445-1020-1-ND	.44	.41	.34	119.00/M	MLF1608A3R9K
4.7	10	2.1	15	445-1021-1-ND	.44	.41	.34	119.00/M	MLF1608A4R7K
5.6	4	1.55	5	445-1022-1-ND	.44	.41	.34	119.00/M	MLF1608E5R6K
6.8	4	1.7	5	445-1023-1-ND	.44	.41	.34	119.00/M	MLF1608E6R8K
8.2	4	2.1	5	445-1024-1-ND	.44	.41	.34	119.00/M	MLF1608E8R2K
10	2	1.85	3	445-1025-1-ND	.44	.41	.34	119.00/M	MLF1608E100K
12	2	2.1	3	445-1026-1-ND	.44	.41	.34	119.00/M	MLF1608E120K
15	1	1.7	1	445-1027-1-ND	.44	.41	.34	119.00/M	MLF1608C150K
18	1	1.85	1	445-1028-1-ND	.44	.41	.34	119.00/M	MLF1608C180K
22	1	2.1	1	445-1029-1-ND	.44	.41	.34	119.00/M	MLF1608C220K
27	1	2.75	1	445-1030-1-ND	.44	.41	.34	119.00/M	MLF1608C270K
33	1	2.95	1	445-1031-1-ND	.44	.41	.34	119.00/M	MLF1608C330K
Fig. 2 MLF2012 ± 10% Inductance Tolerance									
0.047	50	0.2	300	445-1032-1-ND*	.44	.41	.34	119.00/M	MLF2012D47NM
0.068	50	0.2	300	445-1033-1-ND*	.44	.41	.34	119.00/M	MLF2012D68NM
0.082	50	0.2	300	445-1034-1-ND*	.44	.41	.34	119.00/M	MLF2012D82NM
0.1	25	0.3	250	445-1035-1-ND	.44	.41	.34	119.00/M	MLF2012DR10K
0.12	25	0.3	250	445-1036-1-ND	.44	.41	.34	119.00/M	MLF2012DR12K
0.15	25	0.4	250	445-1037-1-ND	.44	.41	.34	119.00/M	MLF2012DR15K
0.18	25	0.4	250	445-1038-1-ND	.44	.41	.34	119.00/M	MLF2012DR18K
0.22	25	0.5	250	445-1039-1-ND	.44	.41	.34	119.00/M	MLF2012DR22K
0.27	25	0.5	250	445-1040-1-ND	.44	.41	.34	119.00/M	MLF2012DR27K
0.33	25	0.55	250	445-1041-1-ND	.44	.41	.34	119.00/M	MLF2012DR33K
0.39	25	0.65	200	445-1042-1-ND	.44	.41	.34	119.00/M	MLF2012DR39K
0.47	25	0.65	200	445-1043-1-ND†	.44	.41	.34	122.40/M‡	MLF2012DR47K
0.56	25	0.75	150	445-1044-1-ND†	.44	.41	.34	122.40/M‡	MLF2012DR56K
0.68	25	08	150	445-1045-1-ND†	.44	.41	.34	122.40/M‡	MLF2012DR68K
0.82	25	1	150	445-1046-1-ND†	.44	.41	.34	122.40/M‡	MLF2012DR82K
1	10	0.4	50	445-1047-1-ND	.44	.41	.34	119.00/M	MLF2012A1R0K
1.2	10	0.5	50	445-1048-1-ND	.44	.41	.34	119.00/M	MLF2012A1R2K
1.5	10	0.5	50	445-1049-1-ND	.44	.41	.34	119.00/M	MLF2012A1R5K
1.8	10	0.6	50	445-1050-1-ND	.44	.41	.34	119.00/M	MLF2012A1R8K
2.2	10	0.65	30	445-1051-1-ND	.44	.41	.34	119.00/M	MLF2012A2R2K
2.7	10	0.75	30	445-1052-1-ND†	.44	.41	.34	122.40/M‡	MLF2012A2R7K
3.3	10	0.8	30	445-1053-1-ND†	.44	.41	.34	119.00/M‡	MLF2012A3R3K
3.9	10	0.9	30	445-1054-1-ND†	.44	.41	.34	122.40/M‡	MLF2012A3R9K
4.7	10	1	30	445-1055-1-ND†	.44	.41	.34	119.00/M	MLF2012A4R7K
5.6	4	0.9	15	445-1056-1-ND†	.44	.41	.34	119.00/M	MLF2012E5R6K
6.8	4	1	15	445-1057-1-ND†	.44	.41	.34	119.00/M	MLF2012E6R8K
8.2	4	1.1	15	445-1058-1-ND†	.44	.41	.34	119.00/M	MLF2012E8R2K
10	2	1.15	15	445-1059-1-ND†	.44	.41	.34	122.40/M‡	MLF2012E100K
12	2	1.25	15	445-1060-1-ND†	.44	.41	.34	119.00/M	MLF2012E120K
15	1	0.8	5	445-1061-1-ND†	.44	.41	.34	122.40/M‡	MLF2012C150K
18	1	0.9	5	445-1062-1-ND†	.44	.41	.34	119.00/M	MLF2012C180K
22	1	1.1	5	445-1063-1-ND†	.44	.41	.34	119.00/M	MLF2012C220K
27	1	1.15	5	445-1064-1-ND†	.44	.41	.34	119.00/M	MLF2012C270K
33	0.4	1.25	5	445-1065-1-ND†	.44	.41	.34	122.40/M‡	MLF2012C330K
39	2	2.9	4	445-1066-1-ND†	.44	.41	.34	122.40/M‡	MLF2012K390K
47	2	3	4	445-1067-1-ND†	.44	.41	.34	122.40/M‡	MLF2012K470K
56	2	3.1	4	445-1068-1-ND†	.44	.41	.34	119.00/M	MLF2012K560K
68	1	2.9	2	445-1069-1-ND†	.44	.41	.34	119.00/M	MLF2012C680K
82	1	3	2	445-1070-1-ND†	.44	.41	.34	122.40/M‡	MLF2012C820K
100	1	3.1	2	445-1071-1-ND†	.44	.41	.34	122.40/M‡	MLF2012C101K

§ For Tape and Reel Part Number change the -1-ND to -2-ND *Inductance Tolerance ±20% † Thickness is 1.25mm
‡ Tape and Reel quantity 2000

SLF Series - Magnetic Shielded, High Current Type

SLF series large current leadless inductors have been developed for surface mount design of power circuits. TDK's high performance ferrite core material and low-profile design, ensure superior characteristics and high reliability. **Features:** • Low-profile SMD type • Magnetic shielded type suitable for high density mounting. • Provided with embossed carrier tape packaging for automatic mounting machines • Only reflow soldering is applicable **Characteristics:** Sizes SLF6028, SLF7032, and SLF7045: Operating temperature is -20°C to + 85°C; Size SLF10145: Operating temperature is -20°C to + 90°C

Fig. 1 SLF6028

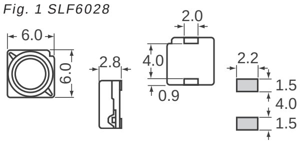


Fig. 2 SLF7032

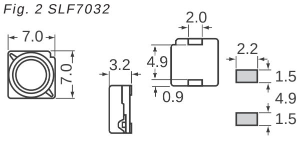


Fig. 3 SLF7045

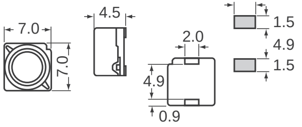
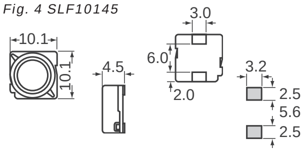


Fig. 4 SLF10145



Inductance (μH)	Test Freq. (MHz)	DC Res. Nominal	Rated Current (A) max.	Digi-Key Part No.	Cut Tape Price Each			T&R§ Pricing 1,000	TDK Part No.
					1	10	100		
Fig. 1 SLF6028 ± 20% Inductance Tolerance									
4.7	1	.0284	1.6	445-1174-1-ND	2.00	1.65	1.30	822.50	SLF6028T-4R7M1R6
6.8	1	.0354	1.5	445-1175-1-ND	2.00	1.65	1.30	822.50	SLF6028T-6R8M1R5
10	1	.0532	1.3	445-1176-1-ND	2.00	1.65	1.30	822.50	SLF6028T-100M1R3
15	1	.0745	1.0	445-1177-1-ND	2.00	1.65	1.30	822.50	SLF6028T-150M1R0
22	1	.104	0.77	445-1178-1-ND	2.00	1.65	1.30	822.50	SLF6028T-220MR77
33	1	.148	0.69	445-1179-1-ND	2.00	1.65	1.30	822.50	SLF6028T-330MR69
47	1	.21	0.59	445-1180-1-ND	2.00	1.65	1.30	822.50	SLF6028T-470MR59
68	1	.29	0.5	445-1181-1-ND	2.00	1.65	1.30	822.50	SLF6028T-680MR50
100	1	.43	0.42	445-1182-1-ND	2.00	1.65	1.30	822.50	SLF6028T-101MR42
Fig. 2 SLF7032 ± 20% Inductance Tolerance									
3.3	1	.023	1.9	445-1183-1-ND	.83	.69	.54	342.65	SLF7032T-3R3M1R9-2
4.7	1	.036	1.7	445-1184-1-ND	.83	.69	.54	342.65	SLF7032T-4R7M1R7-2
6.8	1	.041	1.6	445-1185-1-ND	.83	.69	.54	342.65	SLF7032T-6R8M1R6-2
10	1	.053	1.4	445-1186-1-ND	.83	.69	.54	342.65	SLF7032T-100M1R4-2
15	1	.075	1.1	445-1187-1-ND	.83	.69	.54	342.65	SLF7032T-150M1R1-2
22	1	.11	0.96	445-1188-1-ND	.83	.69	.54	342.65	SLF7032T-220MR96-2
33	1	.16	0.75	445-1189-1-ND	.83	.69	.54	342.65	SLF7032T-330MR75-2
47	1	.24	0.67	445-1190-1-ND	.83	.69	.54	342.65	SLF7032T-470MR67-2
68	1	.31	0.59	445-1191-1-ND	.83	.69	.54	342.65	SLF7032T-680MR59-2
100	1	.45	0.45	445-1192-1-ND	.83	.69	.54	342.65	SLF7032T-101MR45-2
150	1	.65	0.37	445-1193-1-ND	.83	.69	.54	342.65	SLF7032T-151MR37-2
220	1	1.05	0.29	445-1194-1-ND	.83	.69	.54	342.65	SLF7032T-221MR29-2
330	1	1.67	0.22	445-1195-1-ND	.83	.69	.54	342.65	SLF7032T-331MR22-2
470	1	2.05	0.2	445-1196-1-ND	.83	.69	.54	342.65	SLF7032T-471MR20-2
680	1	3.15	0.16	445-1197-1-ND	.83	.69	.54	342.65	SLF7032T-681MR16-2
1000	1	4.78	0.13	445-1198-1-ND	.83	.69	.54	342.65	SLF7032T-102MR13-2
Fig. 3 SLF7045 ± 20% Inductance Tolerance									
3.3	1	.02	2.5	445-1199-1-ND	.94	.77	.61	385.00	SLF7045T-3R3M2R5
4.7	1	.03	2	445-1200-1-ND	.94	.77	.61	385.00	SLF7045T-4R7M2R0
6.8	1	.039	1.7	445-1201-1-ND	.94	.77	.61	385.00	SLF7045T-6R8M1R7
10	1	.036	1.3	445-1202-1-ND	.94	.77	.61	385.00	SLF7045T-100M1R3
15	1	.052	1.1	445-1203-1-ND	.94	.77	.61	385.00	SLF7045T-150M1R1
22	1	.061	0.9	445-1204-1-ND	.94	.77	.61	385.00	SLF7045T-220MR90
33	1	.096	0.82	445-1205-1-ND	.94	.77	.61	385.00	SLF7045T-330MR82
47	1	.125	0.75	445-1206-1-ND	.94	.77	.61	385.00	SLF7045T-470MR75
68	1	.175	0.6	445-1207-1-ND	.94	.77	.61	385.00	SLF7045T-680MR60
100	1	.25	0.5	445-1208-1-ND	.94	.77	.61	385.00	SLF7045T-101MR50
150	1	.34	0.4	445-1209-1-ND	.94	.77	.61	385.00	SLF7045T-151MR40
220	1	.52	0.33	445-1210-1-ND	.94	.77	.61	385.00	SLF7045T-221MR33
330	1	.74	0.25	445-1211-1-ND	.94	.77	.61	385.00	SLF7045T-331MR25
470	1	1.05	0.22	445-1212-1-ND	.94	.77	.61	385.00	SLF7045T-471MR22
680	1	1.48	0.2	445-1213-1-ND	.94	.77	.61	385.00	SLF7045T-681MR20
1000	1	2.28	0.14	445-1214-1-ND	.94	.77	.61	385.00	SLF7045T-102MR14
Fig. 4 SLF10145 ± 20% Inductance Tolerance									
10	1	.0364	3	445-1215-1-ND	1.65	1.35	.90	498.00	SLF10145T-100M2R5
15	1	.0472	2.4	445-1216-1-ND	1.65	1.35	.90	498.00	SLF10145T-150M2R2
22	1	.0591	2.1	445-1217-1-ND	1.65	1.35	.90	498.00	SLF10145T-220M1R9
33	1	.0815	1.6	445-1218-1-ND	1.65	1.35	.90	498.00	SLF10145T-330M1R6
47	1	.1	1.4	445-1219-1-ND	1.65	1.35	.90	498.00	SLF10145T-470M1R4
68	1	.14	1.2	445-1220-1-ND	1.65	1.35	.90	498.00	SLF10145T-680M1R2
100	1	.2	1	445-1221-1-ND	1.65	1.35	.90	498.00	SLF10145T-101M1R0
150	1	.35	0.79	445-1222-1-ND	1.65	1.35	.90	498.00	SLF10145T-151MR79
220	1	.47	0.65	445-1223-1-ND	1.65	1.35	.90	498.00	SLF10145T-221MR65
330	1	.68	0.54	445-1224-1-ND	1.65	1.35	.90	498.00	SLF10145T-331MR54
470	1	1.03	0.47	445-1225-1-ND	1.65	1.35	.90	498.00	SLF10145T-471MR47
680	1	1.6	0.38	445-1226-1-ND	1.65	1.35	.90	498.00	SLF10145T-681MR38
1000	1	2.8	0.32	445-1227-1-ND	1.65	1.35	.90	498.00	SLF10145T-102MR29
1500	1	3.4	0.22	445-1228-1-ND	1.65	1.35	.90	498.00	SLF10145T-152MR22

§ For Tape and Reel Part Number change the -1-ND to -2-ND

TALEMA ELECTRONIC, LLC Inductors for National Simple Switchers™

Features:
- High energy storage with minimum saturation
- High stability from no load to full load
- Operating Temp. Range: -40°C to 125°C
- Electrical specifications at 25°C ambient
- Inductance is measured at 20KHz, 10mVrms

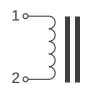
50KHz Inductors are compatible with National's LM2574, LM2475, and LM2576 Series of Regulators. 50KHz Inductance will be typical for the I_{DC} and ET_{OP} values listed.

150 KHz Inductors are compatible with National Simple Switcher™ part numbers LM259X-L1 through LM259X-L44 and LM258X-L.

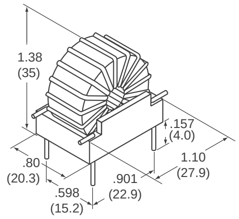
Size Code	Dimensions - Inches ±0.01 (mm ±0.25)			
	A	B	C	X= Coil O.D. +
C1	0.580 (14.73)	0.340 (8.64)	0.220 (5.58)	0.110 (2.8)
C2	0.650 (16.5)	0.449 (11.4)	0.299 (7.6)	0.110 (2.8)
C3	0.827 (21.0)	0.449 (11.4)	0.299 (7.6)	0.110 (2.8)
C4	0.949 (24.1)	0.598 (15.2)	0.449 (11.4)	0.110 (2.8)
C5	1.252 (31.8)	0.701 (17.8)	0.500 (12.7)	0.130 (3.3)

Size Code	Dimensions - Inches ±0.010 (mm ±0.25)			
	A	B	C	D
S1	0.339 (8.6)	0.339 (8.6)	0.185 (4.7)	0.268 (6.8)
S2	0.394 (10.0)	0.394 (10.0)	0.256 (6.5)	0.339 (8.6)
S3	0.503 (12.8)	0.503 (12.8)	0.276 (7.0)	0.449 (11.4)
S4	0.591 (15.0)	0.591 (15.0)	0.315 (8.0)	0.508 (12.9)
S5	0.669 (17.0)	0.701 (17.8)	0.390 (9.91)	0.591 (15.0)
S6	0.925 (23.5)	0.925 (23.5)	0.496 (12.6)	0.827 (21.0)
T1	0.339 (8.6)	0.339 (8.6)	0.185 (4.7)	0.250 (6.35)
T2	0.394 (10.0)	0.394 (10.0)	0.256 (6.5)	0.300 (7.62)
T3	0.503 (12.8)	0.503 (12.8)	0.276 (7.0)	0.375 (9.52)
T4	0.591 (15.0)	0.591 (15.0)	0.315 (8.0)	0.500 (12.70)
T5	0.669 (17.0)	0.701 (17.8)	0.390 (9.91)	0.600 (15.24)

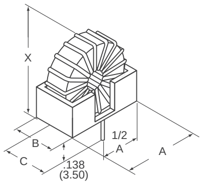
Typical Schematic



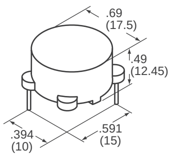
B Series — Base Mount



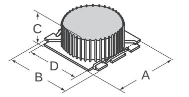
C Series — Clip Mount



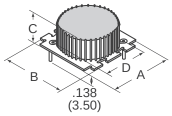
F Series — Encapsulated Flat Mount



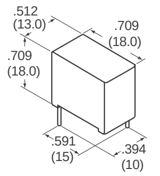
S Series — Surface Mount



T Series — Thru-Hole Mount



V Series — Encapsulated Vertical Mount



50 KHz Inductors

L_N (µH) Typ.	I_{DC} Current (A)	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Size Code (Dim.)	Digi-Key Part No.	Price Each			Talema Part No.
						1	10	25	
47	3.0	90	0.05	C2	TE2000-ND	.84	.75	.66	SWC-3.0-47
47	3.0	90	0.05	S5	TE2001-ND	.71	.63	.56	SWS-3.0-47
47	3.0	90	0.05	T5	TE2002-ND	.75	.67	.59	SWT-3.0-47
68	3.0	90	0.02	C4	TE2003-ND	1.38	1.23	1.08	SWC-3.0-68
100	3.0	90	0.04	C4	TE2004-ND	1.25	1.11	.98	SWC-3.0-100
150	2.0	90	0.10	C4	TE2005-ND	1.20	1.07	.94	SWC-2.0-150
150	2.0	90	0.10	S5	TE2006-ND	1.09	.97	.85	SWS-2.0-150
150	3.0	200	0.10	C4	TE2024-ND	1.18	1.05	.92	SWC-3.0-150
220	1.4	90	0.38	S5	TE2007-ND	1.02	.91	.80	SWS-1.4-220
220	1.4	90	0.38	T5	TE2008-ND	1.09	.97	.85	SWT-1.4-220
220	1.4	90	0.38	F2	TE2009-ND	1.11	.99	.87	SWF-1.4-220
220	1.4	90	0.38	V2	TE2010-ND	1.20	1.07	.94	SWV-1.4-220
220	1.4	90	0.14	C3	TE2011-ND	1.05	.93	.82	SWC-1.4-220
220	1.4	90	0.14	S6	TE2012-ND	1.00	.89	.78	SWS6-1.4-220
220	3.0	200	0.07	C5	TE2025-ND	1.67	1.48	1.30	SWC-3.0-220
330	0.9	90	0.74	S5	TE2013-ND	1.07	.95	.84	SWS-0.90-330
330	0.9	90	0.74	T5	TE2014-ND	1.11	.99	.87	SWT-0.90-330
330	0.9	90	0.74	F2	TE2015-ND	1.14	1.01	.89	SWF-0.90-330
330	0.9	90	0.74	V2	TE2016-ND	1.23	1.09	.96	SWV-0.90-330
330	0.9	90	0.18	C3	TE2017-ND	1.11	.99	.87	SWC-0.90-330
330	0.9	90	0.18	S6	TE2018-ND	1.05	.93	.82	SWS6-0.90-330
330	3.0	200	0.15	C5	TE2026-ND	1.64	1.46	1.28	SWC-3.0-330
470	0.64	90	0.16	C4	TE2019-ND	1.41	1.25	1.10	SWC-0.64-470
470	2.0	200	0.17	C5	TE2027-ND	1.69	1.50	1.32	SWC-2.0-470
680	0.85	90	1.25	S5	TE2020-ND	1.14	1.01	.89	SWS-0.85-680
680	0.85	90	1.25	T5	TE2021-ND	1.18	1.05	.92	SWT-0.85-680
680	0.85	90	1.25	F2	TE2022-ND	1.25	1.11	.98	SWF-0.85-680
680	0.85	90	1.25	V2	TE2023-ND	1.34	1.19	1.05	SWV-0.85-680
680	1.3	200	0.20	C5	TE2028-ND	1.76	1.56	1.37	SWC-1.3-680
1000	0.95	200	0.24	C5	TE2029-ND	1.89	1.68	1.47	SWC-0.95-1000
1500	0.62	200	1.00	B8	TE2030-ND	1.82	1.62	1.42	SWB-0.62-1500
2200	0.42	200	1.80	B8	TE2031-ND	1.82	1.62	1.42	SWB-0.42-2200

150 KHz Inductors

L_N (µH) ±20%	I_{DC} Current (A)	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Simple Switcher™ Reference No.†	Size Code (Dim.)	Digi-Key Part No.	Price Each			Talema Part No.	Size Code (Dim.)	Digi-Key Part No.	Price Each			Talema Part No.
							1	10	25				1	10	25	
					Surface Mount						Thru-Hole					
259	0.13	23.1	3.40	LM259X-L1	S1	TE2032-ND	.67	.60	.52	SWS-0.13-259	T1	TE2077-ND	.70	.63	.55	SWT-0.13-259
178	0.16	16.5	2.80	LM259X-L2	S1	TE2033-ND	.63	.57	.50	SWS-0.16-178	T1	TE2078-ND	.67	.60	.52	SWT-0.16-178
118	0.20	13.2	1.80	LM259X-L3	S1	TE2034-ND	.60	.54	.47	SWS-0.20-118	T1	TE2079-ND	.63	.57	.50	SWT-0.20-118
79	0.25	9.9	1.50	LM259X-L4	S1	TE2035-ND	.56	.51	.44	SWS-0.25-79	T1	TE2080-ND	.63	.57	.50	SWT-0.25-79
55	0.30	6.6	1.00	LM259X-L5	S1	TE2036-ND	.56	.51	.44	SWS-0.30-55	T1	TE2081-ND	.60	.54	.47	SWT-0.30-55
39	0.34	6.6	0.80	LM259X-L6	S1	TE2037-ND	.56	.51	.44	SWS-0.34-39	T1	TE2082-ND	.60	.54	.47	SWT-0.34-39
26	0.45	6.6	0.62	LM259X-L7	S1	TE2038-ND	.53	.48	.42	SWS-0.45-26	T1	TE2083-ND	.56	.51	.44	SWT-0.45-26
374	0.20	75.9	2.70	LM259X-L8	S2	TE2039-ND	.76	.68	.59	SWS-0.20-374	T2	TE2084-ND	.79	.71	.62	SWT-0.20-374
256	0.25	33.0	2.20	LM259X-L9	S2	TE2040-ND	.72	.65	.57	SWS-0.25-256	T2	TE2085-ND	.76	.68	.59	SWT-0.25-256
176	0.30	26.4	1.40	LM259X-L10	S2	TE2041-ND	.69	.62	.54	SWS-0.30-176	T2	TE2086-ND	.72	.65	.57	SWT-0.30-176
118	0.38	19.8	1.20	LM259X-L11	S2	TE2042-ND	.66	.59	.52	SWS-0.38-118	T2	TE2087-ND	.69	.62	.54	SWT-0.38-118
78	0.46	16.5	0.80	LM259X-L12	S2	TE2043-ND	.62	.56	.49	SWS-0.46-78	T2	TE2088-ND	.69	.62	.54	SWT-0.46-78
55	0.56	13.2	0.50	LM259X-L13	S2	TE2044-ND	.62	.56	.49	SWS-0.56-55	T2	TE2089-ND	.66	.59	.52	SWT-0.56-55
39	0.68	9.9	0.30	LM259X-L14	S2	TE2045-ND	.62	.56	.49	SWS-0.68-39	T2	TE2090-ND	.66	.59	.52	SWT-0.68-39
26	0.84	6.6	0.20	LM259X-L15	S2	TE2046-ND	.59	.53	.46	SWS-0.84-26	T2	TE2091-ND	.62	.56	.49	SWT-0.84-26
17	1.02	6.6	0.10	LM259X-L16	S2	TE2047-ND	.59	.53	.46	SWS-1.02-17	T2	TE2092-ND	.66	.59	.52	SWT-1.02-17
375	0.36	75.9	1.30	LM259X-L17	S3	TE2048-ND	.85	.76	.67	SWS-0.36-375	T3	TE2093-ND	.88	.79	.69	SWT-0.36-375
252	0.44	49.5	0.90	LM259X-L18	S3	TE2049-ND	.78	.70	.61	SWS-0.44-252	T3	TE2094-ND	.85	.76	.67	SWT-0.44-252
173	0.54	36.3	0.60	LM259X-L19	S3	TE2050-ND	.78	.70	.61	SWS-0.54-173	T3	TE2095-ND	.82	.73	.64	SWT-0.54-173
115	0.67	29.7	0.40	LM259X-L20	S3	TE2051-ND	.75	.67	.59	SWS-0.67-115	T3	TE2096-ND	.78	.70	.61	SWT-0.67-115
78	0.82	23.1	0.30	LM259X-L21	S3	TE2052-ND	.72	.64	.56	SWS-0.82-78	T3	TE2097-ND	.75	.67	.59	SWT-0.82-78
54	1.00	16.5	0.20	LM259X-L22	S3	TE2053-ND	.72	.64	.56	SWS-1.00-54	T3	TE2098-ND	.75	.67	.59	SWT-1.00-54
38	1.20	13.2	0.10	LM259X-L23	S3	TE2054-ND	.72	.64	.56	SWS-1.20-38	T3	TE2099-ND	.75	.67	.59	SWT-1.20-38
26	1.48	9.9	0.10	LM259X-L24	S3	TE2055-ND	.68	.61	.54	SWS-1.48-26	T3	TE2100-ND	.72	.64	.56	SWT-1.48-26
18	1.81	9.9	0.06	LM259X-L25	S3	TE2056-ND	.68	.61	.54	SWS-1.81-18	T3	TE2101-ND	.72	.64	.56	SWT-1.81-18
377	0.68	75.9	1.00	LM259X-L26	S4	TE2057-ND	.85	.76	.67	SWS-0.68-377	T4	TE2102-ND	.92	.82	.72	SWT-0.68-377
248	0.83	72.6	0.60	LM259X-L27	S4	TE2058-ND	.85	.76	.67	SWS-0.83-248	T4	TE2103-ND	.88	.79	.69	SWT-0.83-248
168	1.02	56.1	0.40	LM259X-L28	S4	TE2059-ND	.82	.73	.64	SWS-1.02-168	T4	TE2104-ND	.85	.76	.67	SWT-1.02-168
112	1.26	42.9	0.30	LM259X-L29	S4	TE2060-ND	.78	.70	.61	SWS-1.26-112	T4	TE2105-ND	.82	.73	.64	SWT-1.26-112
77	1.54	33.0	0.20	LM259X-L30	S4	TE2061-ND	.78	.70	.61	SWS-1.54-77	T4	TE2106-ND	.82	.73	.64	SWT-1.54-77
53	1.87	26.4	0.13	LM259X-L31	S4	TE2062-ND	.77	.69	.61	SWS-1.87-53	T4	TE2107-ND	.84	.75	.66	SWT-1.87-53
37	2.24	19.8	0.10	LM259X-L32	S4	TE2063-ND	.75	.67	.59	SWS-2.24-37	T4	TE2108-ND	.78	.70	.61	SWT-2.24-37
24	2.74	16.5	0.07	LM259X-L33	S4	TE2064-ND	.75	.67	.59	SWS-2.74-24	T4	TE2109-ND	.78	.70	.61	SWT-2.74-24
17	3.00	13.2	0.05	LM259X-L34	S4	TE2065-ND	.75	.67	.59	SWS-3.00-17	C1	TE2110-ND	.78	.70	.61	SWC-3.00-17
250	1.50	72.6	0.23	LM259X-L35	S6	TE2066-ND	1.80	1.60	1.40	SWS-1.50-250	C3	TE2111-ND	1.83	1.63	1.43	SWC-1.50-250
168	1.81	75.9	0.18	LM259X-L36	S6	TE2067-ND	1.73	1.54	1.35	SWS-1.81-168	C3	TE2112-ND	1.77	1.57	1.38	SWC-1.81-168
114	2.22	62.7	0.10	LM259X-L37	S6	TE2068-ND	1.73	1.54	1.35	SWS-2.22-114	C3	TE2113-ND	1.77	1.57	1.38	SWC-2.22-114
77	2.70	52.8	0.09	LM259X-L38	S6	TE2069-ND	1.69	1.51	1.32	SWS-2.70-77	C3	TE2114-ND	1.72	1.54	1.35	SWC-2.70-77
53	3.00	42.9	0.08	LM259X-L39	S6	TE2070-ND	1.63	1.45	1.27	SWS-3.00-53	C3	TE2115-ND	1.67	1.48	1.30	SWC-3.00-53
38	3.00	29.7	0.05	LM259X-L40	S6	TE2071-ND	1.63	1.45	1.27	SWS-3.00-38	C3	TE2116-ND	1.67	1.48	1.30	SWC-3.00-38
25	3.00	19.8	0.04	LM259X-L41	S5	TE2072-ND	1.04	.92	.81	SWS-3.00-25	C2	TE2117-ND	1.07	.95	.84	SWC-3.00-25
167	2.50	75.9	0.14	LM259X-L42	S6	TE2073-ND	2.23	1.99	1.74	SWS-2.50-167	C4	TE2118-ND	2.32	2.07	1.81	SWC-2.50-167
110	3.00	75.9	0.09	LM259X-L43	S6	TE2074-ND	2.29	2.04	1.78	SWS-3.00-110	C4	TE2119-ND	2.38	2.12	1.85	SWC-3.00-110
77	3.00	59.4	0.08	LM259X-L44	S6	TE2075-ND	1.72	1.54	1.35	SWS-3.00-77	C3	TE2120-ND	1.76	1.57	1.37	SWC-3.00-77
19	4.50	32.0‡	0.02	LM258X-L	S6	TE2076-ND	1.71	1.52	1.33	SWS-4.50-19	C3	TE2121-ND	1.74	1.55	1.36	SWC-4.5-19

† To be used for reference only. ‡ ET_{OP} for part number SW☐-4.50-19 is based on a frequency of 100KHz. All other items are rated at 150KHz. *Note:* Simple Switcher™ is a trademark of National Semiconductor.

TOKO

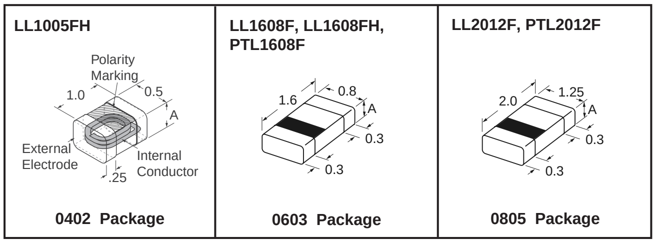
9139B-ND Toko Coils & Filter Book **$9.95**

Surface Mount Inductors

LL1005FH Type, LL1608FH Type, LL1608F Type, LL2012F Type, PTL1608F Type, PTL2012F Type

FEATURES:
LL1005FH – World's Smallest Chip Inductor. For reflow soldering • Temperature Coefficient: +250ppm/°C max. • Temperature Range: -40°C - +100°C. Miniature size (1.0mm x 0.5mm). **LL1608F & LL2012F** – For Reflow Soldering • Temperature Coefficient: +250ppm/°C max. • Temperature Range: -40°C +100°C • Features: Laminated ceramic allows high SRF.

The **PTL1608** and **PTL2012 Series** is a photolithographically etched single layer ceramic chip inductor providing high SRF, excellent Q, and superior temperature stability. Highly stable and specifically designed for critical tolerance inductor needs. Solves the tight tolerance needs of GaAs matching and VCO circuits. **Tolerance:** C=±0.2nH, S=±0.3nH, T=3%



Dim. A (mm)	Lo (nH)	Tol.	Q (typ)	SRF MHz (typ)	IDC mA (Max)	Digi-Key Part No.	Cut Tape Price Each			★Tape & Reel Pricing	Toko Part No.
							10	100	500		
LL1005FH											
0.50	1.0	±0.3nH	30	>6000	300	TKS2580CT-ND	.68	.63	.32	1790.00/10000	LL1005-FH1N0S
0.50	1.2	±0.3nH	30	>6000	300	TKS2581CT-ND	.68	.63	.32	1790.00/10000	LL1005-FH1N2S
0.50	1.5	±0.3nH	30	>6000	300	TKS2582CT-ND	.68	.63	.32	1790.00/10000	LL1005-FH1N5S
0.50	1.8	±0.3nH	30	>6000	300	TKS2583CT-ND	.68	.63	.32	1790.00/10000	LL1005-FH1N8S
0.50	2.2	±0.3nH	30	>6000	300	TKS2584CT-ND	.68	.63	.32	1790.00/10000	LL1005-FH2N2S
0.50	2.7	±0.3nH	30	5500	300	TKS2585CT-ND	.68	.63	.32	1790.00/10000	LL1005-FH2N7S
0.50	3.3	±10%	28	5000	300	TKS2586CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH3N3K
0.50	3.9	±10%	30	4700	300	TKS2587CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH3N9K
0.50	4.7	±10%	28	4300	300	TKS2588CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH4N7K
0.50	5.6	±10%	28	4000	300	TKS2589CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH5N6K
0.50	6.8	±10%	28	3650	300	TKS2590CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH6N8K
0.50	8.2	±10%	28	3200	300	TKS2591CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH8N2K
0.50	10.0	±10%	23	2800	300	TKS2592CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH10NK
0.50	12.0	±10%	24	2700	300	TKS2593CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH12NK
0.50	15.0	±10%	25	2200	300	TKS2594CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH15NK
0.50	18.0	±10%	17	2000	300	TKS2595CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH18NK
0.50	22.0	±10%	23	1800	300	TKS2596CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH22NK
0.50	27.0	±10%	20	1600	300	TKS2597CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH27NK
TK10-KIT-ND (SPK-LL1005FH-5%) LL1005-FH Chip Inductor Kit - 10 each of 25 values (250 parts), 1.0nH-100nH $40.50											
LL1608F											
0.80	1.5	±0.3nH	60	>6000	300	TKS2353CT-ND	.68	.61	.30	844.00/4000	LL1608-F1N5S
0.80	1.8	±0.3nH	37	>6000	300	TKS2354CT-ND	.68	.61	.30	844.00/4000	LL1608-F1N8S
0.80	2.2	±0.3nH	35	>6000	300	TKS2355CT-ND	.68	.61	.30	844.00/4000	LL1608-F2N2S
0.80	2.7	±0.3nH	30	>6000	300	TKS2356CT-ND	.68	.61	.30	844.00/4000	LL1608-F2N7S
0.80	3.3	±10%	30	5500	300	TKS2357CT-ND	.68	.61	.30	840.00/4000	LL1608-F3N3K
0.80	3.9	±10%	31	5700	300	TKS2340CT-ND	.68	.61	.30	840.00/4000	LL1608-F3N9K
0.80	4.7	±10%	31	4800	300	TKS2341CT-ND	.68	.61	.30	840.00/4000	LL1608-F4N7K
0.80	5.6	±10%	27	4600	300	TKS2342CT-ND	.68	.61	.30	840.00/4000	LL1608-F5N6K
0.80	6.8	±10%	27	3550	300	TKS2343CT-ND	.68	.61	.30	840.00/4000	LL1608-F6N8K
0.80	8.2	±10%	26	3500	300	TKS2344CT-ND	.68	.61	.30	840.00/4000	LL1608-F8N2K
0.80	10.0	±10%	26	2750	300	TKS2345CT-ND	.68	.61	.30	840.00/4000	LL1608-F10NK
0.80	12.0	±10%	24	2750	300	TKS2346CT-ND	.68	.61	.30	840.00/4000	LL1608-F12NK
0.80	15.0	±10%	24	2300	300	TKS2347CT-ND	.68	.61	.30	840.00/4000	LL1608-F15NK
0.80	18.0	±10%	24	2300	300	TKS2348CT-ND	.68	.61	.30	840.00/4000	LL1608-F18NK
0.80	22.0	±10%	25	2000	300	TKS2349CT-ND	.68	.61	.30	840.00/4000	LL1608-F22NK
0.80	27.0	±10%	25	1750	300	TKS2350CT-ND	.68	.61	.30	840.00/4000	LL1608-F27NK
0.80	33.0	±10%	24	1500	300	TKS2351CT-ND	.68	.61	.30	840.00/4000	LL1608-F33NK
0.80	39.0	±10%	20	1300	300	TKS2352CT-ND	.68	.61	.30	840.00/4000	LL1608-F39NK
0.80	47.0	±10%	18	1200	300	TKS2381CT-ND	.68	.63	.32	1004.00/4000	LL1608-F47NK
0.80	56.0	±10%	14	1100	300	TKS2382CT-ND	.68	.63	.32	1004.00/4000	LL1608-F56NK
0.80	82.0	±10%	18	900	300	TKS2384CT-ND	.68	.63	.32	1004.00/4000	LL1608-F82NK
0.80	100.0	±10%	3	830	300	TKS2385CT-ND	.68	.63	.32	1008.00/4000	LL1608-FR10K
LL1608FH											
0.80	1.2	±0.3nH	13	>6000	1000	TKS3700CT-ND	.68	.61	.30	840.00/4000	LL1608-FH1N2S
0.80	1.5	±0.3nH	13	>6000	1000	TKS3701CT-ND	.68	.61	.30	840.00/4000	LL1608-FH1N5S
0.80	1.8	±0.3nH	12	>6000	1000	TKS3702CT-ND	.68	.61	.30	840.00/4000	LL1608-FH1N8S
0.80	2.2	±0.3nH	12	>6000	1000	TKS3703CT-ND	.68	.61	.30	840.00/4000	LL1608-FH2N2S
0.80	2.7	±0.3nH	12	>6000	1000	TKS3704CT-ND	.68	.61	.30	840.00/4000	LL1608-FH2N7S
0.80	3.3	±0.3nH	12	5900	1000	TKS3705CT-ND	.68	.61	.30	840.00/4000	LL1608-FH3N3S
0.80	3.9	±0.3nH	13	5600	1000	TKS3706CT-ND	.68	.61	.30	840.00/4000	LL1608-FH3N9S
0.80	4.7	±0.3nH	12	4800	1000	TKS3707CT-ND	.68	.61	.30	840.00/4000	LL1608-FH4N7S
0.80	5.6	±0.3nH	12	4350	600	TKS3708CT-ND	.68	.61	.30	840.00/4000	LL1608-FH5N6S
0.80	6.8	±5%	12	3750	600	TKS3709CT-ND	.68	.61	.30	840.00/4000	LL1608-FH6N8J
0.80	8.2	±5%	13	3300	600	TKS3710CT-ND	.68	.61	.30	840.00/4000	LL1608-FH8N2J
0.80	10.0	±5%	13	2850	600	TKS3711CT-ND	.68	.61	.30	840.00/4000	LL1608-FH10NJ
0.80	12.0	±5%	15	2500	600	TKS3712CT-ND	.68	.61	.30	840.00/4000	LL1608-FH12NJ
0.80	15.0	±5%	15	2150	600	TKS3713CT-ND	.68	.61	.30	840.00/4000	LL1608-FH15NJ
0.80	18.0	±5%	16	2050	600	TKS3714CT-ND	.68	.61	.30	840.00/4000	LL1608-FH18NJ
0.80	22.0	±5%	17	1850	600	TKS3715CT-ND	.68	.61	.30	840.00/4000	LL1608-FH22NJ
0.80	27.0	±5%	17	1750	600	TKS3716CT-ND	.68	.61	.30	840.00/4000	LL1608-FH27NJ
0.80	33.0	±5%	18	1500	600	TKS3717CT-ND	.68	.61	.30	840.00/4000	LL1608-FH33NJ
0.80	39.0	±5%	17	1350	500	TKS3718CT-ND	.68	.61	.30	840.00/4000	LL1608-FH39NJ
0.80	47.0	±5%	17	1200	500	TKS3719CT-ND	.68	.61	.30	840.00/4000	LL1608-FH47NJ
0.80	56.0	±5%	17	1100	500	TKS3720CT-ND	.68	.61	.30	840.00/4000	LL1608-FH56NJ
0.80	68.0	±5%	18	1000	400	TKS3721CT-ND	.68	.61	.30	840.00/4000	LL1608-FH68NJ
0.80	82.0	±5%	18	900	300	TKS3722CT-ND	.68	.61	.30	840.00/4000	LL1608-FH82NJ
0.80	100	±5%	18	830	300	TKS3723CT-ND	.68	.61	.30	840.00/4000	LL1608-FHR10J
PTL1608F											
0.50	1.0	±0.2nH	11	12500	1000	TKS2900CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N0C
0.50	1.2	±0.2nH	10	11500	900	TKS2901CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N2C
0.50	1.5	±0.2nH	9	10000	800	TKS2902CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N5C
0.50	1.8	±0.2nH	10	9250	700	TKS2903CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N8C
0.50	2.2	±0.2nH	9	8400	650	TKS2904CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F2N2C
0.50	2.7	±0.2nH	10	7400	600	TKS2905CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F2N7C
0.50	3.3	±0.2nH	9	6600	500	TKS2906CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F3N3C
0.50	3.9	±0.2nH	9	5850	500	TKS2907CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F3N9C
0.50	4.7	±0.2nH	10	5200	450	TKS2908CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F4N7C
0.50	5.6	±0.2nH	10	4700	400	TKS2909CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F5N6C
0.50	6.8	±0.3nH	9	4200	350	TKS2910CT-ND	.75	.67	.33	1260.00/6000	PTL1608-F6N8S
0.50	8.2	±0.3nH	9	3750	300	TKS2911CT-ND	.75	.67	.33	1260.00/6000	PTL1608-F8N2S
0.50	10	3%	9	3250	250	TKS2912CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F10NT
0.50	12	3%	8	3100	200	TKS2913CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F12NT
0.50	15	3%	8	2650	200	TKS2914CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F15NT
0.50	18	3%	8	2400	180	TKS2915CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F18NT
LL2012F											
0.60	1.8	±0.3nH	42	6000	300	TKS2360CT-ND	.90	.81	.40	1120.00/4000	LL2012-F1N8S
0.60	2.2	±0.3nH	44	6000	300	TKS2361CT-ND	.90	.81	.40	1120.00/4000	LL2012-F2N2S
0.60	2.7	±0.3nH	32	6000	300	TKS2362CT-ND	.90	.81	.40	1120.00/4000	LL2012-F2N7S
0.60	3.3	±10%	36	6000	300	TKS2363CT-ND	.75	.67	.33	932.00/4000	LL2012-F3N3K
0.60	3.9	±10%	46	5400	300	TKS2364CT-ND	.75	.67	.33	932.00/4000	LL2012-F3N9K
0.60	4.7	±10%	45	4500	300	TKS2365CT-ND	.75	.67	.33	932.00/4000	LL2012-F4N7K
0.60	5.6	±10%	47	4000	300	TKS2366CT-ND	.75	.67	.33	932.00/4000	LL2012-F5N6K
0.60	6.8	±10%	44	3650	300	TKS2367CT-ND	.75	.67	.33	932.00/4000	LL2012-F6N8K
0.60	8.2	±10%	46	3000	300	TKS2368CT-ND	.75	.67	.33	932.00/4000	LL2012-F8N2K
0.85	10.0	±10%	40	2500	300	TKS2369CT-ND	.75	.67	.33	932.00/4000	LL2012-F10NK
0.85	12.0	±10%	40	2450	300	TKS2370CT-ND	.75	.67	.33	932.00/4000	LL2012-F12NK
0.85	15.0	±10%	43	2000	300	TKS2371CT-ND	.75	.67	.33	932.00/4000	LL2012-F15NK
0.85	18.0	±10%	42	1750	300	TKS2372CT-ND	.75	.67	.33	932.00/4000	LL2012-F18NK
0.85	22.0	±10%	42	1700	300	TKS2373CT-ND	.75	.67	.33	932.00/4000	LL2012-F22NK
0.85	33.0	±10%	44	1350	300	TKS2375CT-ND	.75	.67	.33	932.00/4000	LL2012-F33NK
0.85	39.0	±10%	39	1300	300	TKS2376CT-ND	.75	.67	.33	932.00/4000	LL2012-F39NK
1.00	47.0	±10%	36	1200	300	TKS2377CT-ND	.75	.67	.33	699.00/3000	LL2012-F47NK
1.00	56.0	±10%	36	1150	300	TKS2378CT-ND	.75	.67	.33	699.00/3000	LL2012-F56NK
1.00	68.0	±10%	35	1000	300	TKS2379CT-ND	.75	.67	.33	699.00/3000	LL2012-F68NK
1.00	82.0	±10%	25	850	300	TKS2380CT-ND	.75	.67	.33	699.00/3000	LL2012-F82NK
1.00	100.0	±10%	18	730	300	TKS2386CT-ND	.75	.70	.35	840.00/3000	LL2012-FR10K
1.10	120.0	±10%	19	650	250	TKS2387CT-ND	.75	.70	.35	840.00/3000	LL2012-FR12K
1.10	150.0	±10%	20	550	250	TKS2388CT-ND	.75	.70	.35	840.00/3000	LL2012-FR15K
1.10	180.0	±10%	20	500	250	TKS2389CT-ND	.75	.70	.35	840.00/3000	LL2012-FR18K
1.10	220.0	±10%	20	450	200	TKS2390CT-ND	.75	.70	.35	840.00/3000	LL2012-FR22K
1.10	270.0	±10%	20	400	200	TKS2391CT-ND	.75	.70	.35	840.00/3000	LL2012-FR27K
1.10	330.0	±10%	20	380	150	TKS2392CT-ND	.75	.70	.35	840.00/3000	LL2012-FR33K
1.10	390.0	±10%	20	330	150	TKS2393CT-ND	.75	.70	.35	840.00/3000	LL2012-FR39K
1.10	470.0	±10%	19	300	100	TKS2394CT-ND	.75	.70	.35	840.00/3000	LL2012-FR47K
PTL2012F											
0.50	1.0	±0.2nH	11	10000	1300	TKS2950CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N0C
0.50	1.2	±0.2nH	10	9000	1100	TKS2951CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N2C
0.50	1.5	±0.2nH	8	8500	800	TKS2952CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N5C
0.50	1.8	±0.2nH	9	8000	800	TKS2953CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N8C
0.50	2.2	±0.2nH	10	7000	750	TKS2954CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F2N2C
0.50	2.7	±0.2nH	10	6000	750	TKS2955CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F2N7C
0.50	3.3	±0.2nH	10	5300	650	TKS2956CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F3N3C
0.50	3.9	±0.2nH	10	4800	600	TKS2957CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F3N9C
0.50	4.7	±0.2nH	10	4350	550	TKS2958CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F4N7C
0.50	5.6	±0.2nH	10	4000	500	TKS2959CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F5N6C
0.50	6.8	±0.3nH	10	3600	450	TKS2960CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F6N8S
0.50	8.2	±0.3nH	10	3250	400	TKS2961CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F8N2S
0.50	10	3%	11	2850	350	TKS2962CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F10NT
0.50	12	3%	12	2500	350	TKS2963CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F12NT
0.50	15	3%	12	2250	300	TKS2964CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F15NT
0.50	18	3%	12	2000	300	TKS2965CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F18NT
0.50	22	3%	12	1800	250	TKS2966CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F22NT
0.50	27	3%	12	1650	200	TKS2967CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F27NT
0.50	33	3%	11	1450	200	TKS2968CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F33NT
0.50	39	3%	11	1350	180	TKS2969CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F39NT
0.50	47	3%	11	1180	130	TKS2970CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F47NT
0.50	56	3%	11	1070	120	TKS2971CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F56NT
0.50	68	3%	11	950	100	TKS2972CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F68NT
0.50	82	3%	11	900	90	TKS2973CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F82NT

★ For Tape & Reel part number, change CT-ND to TR-ND.

TOKO

Surface Mount Inductors

FSLU Type, FSLM Type, 3DF Type and 5CA Type

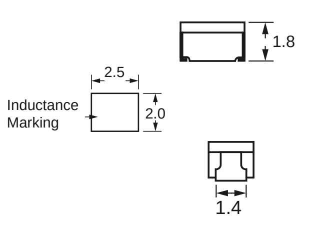
Features:

FSLU – Conforms to EIA Standard 1008 footprint. • Typical max Q: 40-50. • Proprietary wire-wound structure with welded terminations offers high reliability. • Operating Temperature Range: -40°C - +85°C. • Superior solderability and high heat-resistance for flow and reflow soldering.

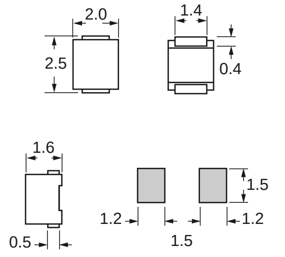
FSLM – Ferrite core wirewound inductor conforms to EIA Standard 1008 footprint. Proprietary welded termination offers superior reliability and high heat-resistance for flow and reflow soldering capability. Recommended for general signal conditioning, RF or IF filtering applications and as matching elements.

9139B-ND Toko Coils & Filter Book **$9.95**

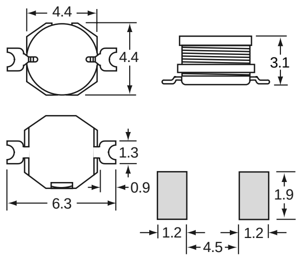
FSLU 1008 Package



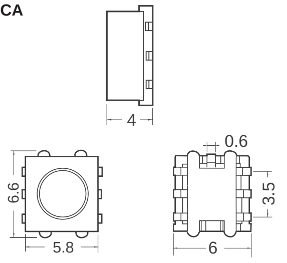
FSLM 1008 Package



3DF



5CA



L Nom.	Tol.	Q Min.	Freq.	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
FSLU Type										
.010µH	±10%	15	100MHz	730mA	TKS2649CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-10NK
.012µH	±10%	15	100MHz	690mA	TKS2650CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-12NK
.015µH	±10%	15	100MHz	660mA	TKS2651CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-15NK
.018µH	±10%	15	100MHz	600mA	TKS2652CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-18NK
.022µH	±10%	15	100MHz	550mA	TKS2653CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-22NK
.027µH	±10%	15	100MHz	520mA	TKS2654CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-27NK
.033µH	±10%	20	100MHz	480mA	TKS2655CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-33NK
.039µH	±10%	20	100MHz	460mA	TKS2656CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-39NK
.047µH	±10%	20	100MHz	440mA	TKS2657CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-47NK
.056µH	±10%	20	100MHz	420mA	TKS2658CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-56NK
.068µH	±10%	20	100MHz	400mA	TKS2659CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-68NK
.082µH	±10%	20	100MHz	390mA	TKS2660CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-82NK
0.1µH	±10%	30	25.2MHz	540mA	TKS2661CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R10K
.12µH	±10%	30	25.2MHz	500mA	TKS2662CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R12K
.15µH	±10%	30	25.2MHz	480mA	TKS2663CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R15K
.18µH	±10%	30	25.2MHz	430mA	TKS2664CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R18K
.22µH	±10%	30	25.2MHz	420mA	TKS2665CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R22K
.27µH	±10%	30	25.2MHz	410mA	TKS2666CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R27K
.33µH	±10%	30	25.2MHz	380mA	TKS2667CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R33K
.39µH	±10%	30	25.2MHz	360mA	TKS2668CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R39K
.47µH	±10%	30	25.2MHz	350mA	TKS2669CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R47K
.68µH	±10%	30	25.2MHz	320mA	TKS2671CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R68K
.82µH	±10%	30	25.2MHz	290mA	TKS2672CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R82K
1.0µH	±5%	25	7.96MHz	250mA	TKS2620CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-1R0J
1.2µH	±5%	25	7.96MHz	235mA	TKS2621CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-1R2J
1.5µH	±5%	25	7.96MHz	230mA	TKS2622CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-1R5J
1.8µH	±5%	25	7.96MHz	220mA	TKS2623CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-1R8J
2.2µH	±5%	25	7.96MHz	210mA	TKS2624CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-2R2J
2.7µH	±5%	25	7.96MHz	200mA	TKS2625CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-2R7J
3.3µH	±5%	25	7.96MHz	190mA	TKS2626CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-3R3J
3.9µH	±5%	25	7.96MHz	185mA	TKS2627CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-3R9J
4.7µH	±5%	25	7.96MHz	180mA	TKS2628CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-4R7J
5.6µH	±5%	20	7.96MHz	175mA	TKS2629CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-5R6J
6.8µH	±5%	20	7.96MHz	165mA	TKS2630CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-6R8J
8.2µH	±5%	20	7.96MHz	160mA	TKS2631CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-8R2J
10µH	±5%	20	2.52MHz	155mA	TKS2632CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-100J
12µH	±5%	20	2.52MHz	150mA	TKS2633CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-120J
15µH	±5%	20	2.52MHz	145mA	TKS2634CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-150J
18µH	±5%	20	2.52MHz	135mA	TKS2635CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-180J
22µH	±5%	20	2.52MHz	125mA	TKS2636CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-220J
27µH	±5%	20	2.52MHz	120mA	TKS2637CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-270J
33µH	±5%	20	2.52MHz	115mA	TKS2638CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-330J
39µH	±5%	20	2.52MHz	90mA	TKS2639CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-390J
47µH	±5%	20	2.52MHz	80mA	TKS2640CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-470J
56µH	±5%	20	2.52MHz	75mA	TKS2641CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-560J
68µH	±5%	20	2.52MHz	70mA	TKS2642CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-680J
82µH	±5%	20	2.52MHz	65mA	TKS2643CT-ND	1.28	1.00	.86	—	FSLU2520-820J
100µH	±5%	15	0.796MHz	60mA	TKS2644CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-101J
120µH	±5%	15	0.796MHz	52mA	TKS2645CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-121J
150µH	±5%	15	0.796MHz	50mA	TKS2646CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-151J
180µH	±5%	15	0.796MHz	48mA	TKS2647CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-181J
220µH	±5%	15	0.796MHz	45mA	TKS2648CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-221J
FSLM Type										
0.10µH	±5%	30	25.2MHz	570mA	TKS3600CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R10J
0.12µH	±5%	30	25.2MHz	550mA	TKS3601CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R12J
0.15µH	±5%	30	25.2MHz	500mA	TKS3602CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R15J
0.18µH	±5%	30	25.2MHz	460mA	TKS3603CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R18J
022µH	±5%	30	25.2MHz	430mA	TKS3604CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R22J
0.27µH	±5%	30	25.2MHz	420mA	TKS3605CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R27J
0.33µH	±5%	30	25.2MHz	400mA	TKS3606CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R33J
0.47µH	±5%	30	25.2MHz	350mA	TKS3607CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R47J
0.56µH	±5%	30	25.2MHz	330mA	TKS3608CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R56J
0.68µH	±5%	30	25.2MHz	320mA	TKS3609CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R68J
0.82µH	±5%	30	25.2MHz	290mA	TKS3610CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R82J
1.0µH	±5%	30	7.96MHz	250mA	TKS3611CT-ND	.85	.75	.67	500.00/2000	FSLM2520-1R0J
1.2µH	±5%	30	7.96MHz	240mA	TKS3612CT-ND	.85	.75	.67	500.00/2000	FSLM2520-1R2J
1.5µH	±5%	30	7.96MHz	230mA	TKS3613CT-ND	.85	.75	.67	500.00/2000	FSLM2520-1R5J
1.8µH	±5%	30	7.96MHz	220mA	TKS3614CT-ND	.85	.75	.67	500.00/2000	FSLM2520-1R8J
2.2µH	±5%	30	7.96MHz	210mA	TKS3615CT-ND	.85	.75	.67	500.00/2000	FSLM2520-2R2J
2.7µH	±5%	30	7.96MHz	200mA	TKS3616CT-ND	.85	.75	.67	500.00/2000	FSLM2520-2R7J
3.3µH	±5%	30	7.96MHz	190mA	TKS3617CT-ND	.85	.75	.67	500.00/2000	FSLM2520-3R3J
3.9µH	±5%	30	7.96MHz	185mA	TKS3618CT-ND	.85	.75	.67	500.00/2000	FSLM2520-3R9J
4.7µH	±5%	30	7.96MHz	180mA	TKS3619CT-ND	.85	.75	.67	500.00/2000	FSLM2520-4R7J
5.6µH	±5%	30	7.96MHz	170mA	TKS3620CT-ND	.85	.75	.67	500.00/2000	FSLM2520-5R6J
6.8µH	±5%	30	7.96MHz	165mA	TKS3621CT-ND	.85	.75	.67	500.00/2000	FSLM2520-6R8J
8.2µH	±5%	30	7.96MHz	160mA	TKS3622CT-ND	.85	.75	.67	500.00/2000	FSLM2520-8R2J
10µH	±5%	25	2.52MHz	155mA	TKS3623CT-ND	.85	.75	.67	500.00/2000	FSLM2520-100J
12µH	±5%	25	2.52MHz	150mA	TKS3624CT-ND	.85	.75	.67	500.00/2000	FSLM2520-120J
15µH	±5%	25	2.52MHz	140mA	TKS3625CT-ND	.85	.75	.67	500.00/2000	FSLM2520-150J
18µH	±5%	25	2.52MHz	130mA	TKS3626CT-ND	.85	.75	.67	500.00/2000	FSLM2520-180J
22µH	±5%	25	2.52MHz	125mA	TKS3627CT-ND	.85	.75	.67	500.00/2000	FSLM2520-220J
27µH	±5%	25	2.52MHz	115mA	TKS3628CT-ND	.85	.75	.67	500.00/2000	FSLM2520-270J
33µH	±5%	25	2.52MHz	110mA	TKS3629CT-ND	.85	.75	.67	500.00/2000	FSLM2520-330J
39µH	±5%	25	2.52MHz	85mA	TKS3630CT-ND	.85	.75	.67	500.00/2000	FSLM2520-390J
47µH	±5%	25	2.52MHz	80mA	TKS3631CT-ND	.85	.75	.67	500.00/2000	FSLM2520-470J
56µH	±5%	25	2.52MHz	75mA	TKS3632CT-ND	.85	.75	.67	500.00/2000	FSLM2520-560J
68µH	±5%	25	2.52MHz	70mA	TKS3633CT-ND	.85	.75	.67	500.00/2000	FSLM2520-680J
82µH	±5%	25	2.52MHz	65mA	TKS3634CT-ND	.85	.75	.67	500.00/2000	FSLM2520-820J
100µH	±5%	15	0.796MHz	60mA	TKS3635CT-ND	.85	.75	.67	500.00/2000	FSLM2520-101J
120µH	±5%	15	0.796MHz	55mA	TKS3636CT-ND	.85	.75	.67	500.00/2000	FSLM2520-121J
150µH	±5%	15	0.796MHz	50mA	TKS3637CT-ND	.85	.75	.67	500.00/2000	FSLM2520-151J
180µH	±5%	15	0.796MHz	47mA	TKS3638CT-ND	.85	.75	.67	500.00/2000	FSLM2520-181J
220µH	±5%	15	0.796MHz	44mA	TKS3639CT-ND	.85	.75	.67	500.00/2000	FSLM2520-221J
3DF Type										
95µH	—	—	100KHz	21mA	TKS1200-ND	1.31	1.30	1.22	—	682AE-014=P3
5CA Type										
1.2 mH	—	70	252 KHz	54mA	TKS2318CT-ND	4.46	3.54	2.59	3400.00/2000	395GN-0091IB=P3
110 µH	—	68	796 KHz	—	TKS2319CT-ND	4.46	3.54	2.59	3400.00/2000	395KN-0369AQ=P3

* For Tape & Reel Part No., change CT to TR.

TOKO

9139B-ND Toko Coils & Filter Book **$9.95**

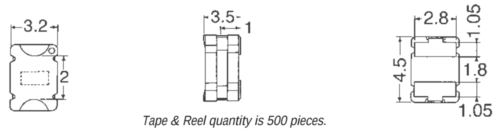
Surface Mount Inductors

43FS Type, 5CCD Type, 5CCE Type

FEATURES:

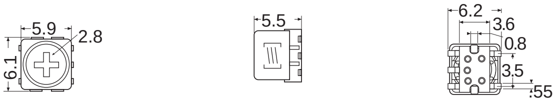
- **43FS** – For reflow soldering type. Small size.

43FS



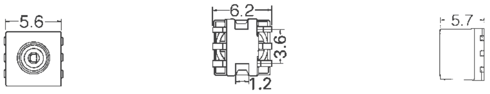
Tape & Reel quantity is 500 pieces.

5CCD



Tape & Reel quantity is 1000 pieces.

5CCE



Tape & Reel quantity is 750 pieces.

TK9990-ND	Ceramic Tuning Driver (5CCE) (Requires Holder TK9999-ND, below)	**$41.66**
TK9994-ND	Ceramic Tuning Driver (5CCD) (Requires Holder TK9999-ND, below)	**$69.64**
TK9999-ND	Ceramic Driver Holder	**$4.16**

L Nom.	Q Min.	Rated DC Freq.	Current	Digi-Key Part No.	Cut Tape Pricing 1	10	100	★Tape & Reel Pricing	Toko Part No.
43FS Type									
.22µH ± 20%	22	25.2MHz	190mA	TKS1205CT-ND	1.50	11.52	86.40	—	300NS-R22M
.56µH ± 20%	19	25.2MHz	145mA	TKS1210CT-ND	2.81	21.60	162.00	575.00/500	300NS-R56M
.68µH ± 20%	18	25.2MHz	140mA	TKS1211CT-ND	1.50	11.52	86.40	—	300NS-R68M
.82µH ± 20%	17	25.2MHz	135mA	TKS1212CT-ND	1.50	11.52	86.40	—	300NS-R82M
1.0µH ± 10%	50	7.96MHz	250mA	TKS1213CT-ND	2.81	21.60	162.00	575.00/500	300LS-1R0K
1.2µH ± 10%	50	7.96MHz	240mA	TKS1214CT-ND	2.81	21.60	162.00	575.00/500	300LS-1R2K
1.5µH ± 10%	50	7.96MHz	230mA	TKS1215CT-ND	2.81	21.60	162.00	575.00/500	300LS-1R5K
1.8µH ± 10%	50	7.96MHz	220mA	TKS1216CT-ND	2.81	21.60	162.00	575.00/500	300LS-1R8K
2.2µH ± 10%	50	7.96MHz	200mA	TKS1217CT-ND	2.81	21.60	162.00	575.00/500	300LS-2R2K
2.7µH ± 10%	50	7.96MHz	190mA	TKS1218CT-ND	2.81	21.60	162.00	575.00/500	300LS-2R7K
3.3µH ± 10%	50	7.96MHz	180mA	TKS1219CT-ND	2.81	21.60	162.00	575.00/500	300LS-3R3K
3.9µH ± 10%	50	7.96MHz	160mA	TKS1220CT-ND	2.81	21.60	162.00	575.00/500	300LS-3R9K
4.7µH ± 10%	50	7.96MHz	160mA	TKS1221CT-ND	2.81	21.60	162.00	575.00/500	300LS-4R7K
5.6µH ± 10%	50	7.96MHz	150mA	TKS1222CT-ND	2.81	21.60	162.00	575.00/500	300LS-5R6K
6.8µH ± 10%	50	7.96MHz	150mA	TKS1223CT-ND	2.81	21.60	162.00	575.00/500	300LS-6R8K
8.2µH ± 10%	50	7.96MHz	150mA	TKS1224CT-ND	2.81	21.60	162.00	575.00/500	300LS-8R2K
10.0µH ± 10%	50	7.96MHz	145mA	TKS1225CT-ND	2.81	21.60	162.00	575.00/500	300LS-100K
15.0µH ± 10%	50	2.52MHz	130mA	TKS1227CT-ND	2.81	21.60	162.00	575.00/500	300LS-150K
18.0µH ± 10%	50	2.52MHz	125mA	TKS1228CT-ND	2.81	21.60	162.00	575.00/500	300LS-180K
22.0µH ± 10%	50	2.52MHz	115mA	TKS1229CT-ND	2.81	21.60	162.00	575.00/500	300LS-220K
27.0µH ± 10%	50	2.52MHz	105mA	TKS1230CT-ND	2.81	21.60	162.00	575.00/500	300LS-270K
33.0µH ± 10%	50	2.52MHz	100mA	TKS1231CT-ND	2.81	21.60	162.00	575.00/500	300LS-330K
39.0µH ± 10%	50	2.52MHz	95mA	TKS1232CT-ND	2.81	21.60	162.00	575.00/500	300LS-390K
47.0µH ± 10%	50	2.52MHz	85mA	TKS1233CT-ND	2.81	21.60	162.00	575.00/500	300LS-470K
56.0µH ± 10%	50	2.52MHz	85mA	TKS1234CT-ND	2.81	21.60	162.00	575.00/500	300LS-560K
68.0µH ± 10%	50	2.52MHz	75mA	TKS1235CT-ND	2.81	21.60	162.00	575.00/500	300LS-680K
82.0µH ± 10%	50	2.52MHz	75mA	TKS1236CT-ND	2.81	21.60	162.00	575.00/500	300LS-820K
100µH ± 5%	50	2.52MHz	70mA	TKS1237CT-ND	2.81	21.60	162.00	575.00/500	300LS-101J
120µH ± 5%	50	796KHz	70mA	TKS1238CT-ND	2.81	21.60	162.00	575.00/500	300HS-121J
150µH ± 5%	50	796KHz	65mA	TKS1239CT-ND	2.81	21.60	162.00	575.00/500	300HS-151J
180µH ± 5%	50	796KHz	60mA	TKS1240CT-ND	2.81	21.60	162.00	575.00/500	300HS-181J
220µH ± 5%	50	796KHz	60mA	TKS1241CT-ND	2.81	21.60	162.00	575.00/500	300HS-221J
270µH ± 5%	50	796KHz	55mA	TKS1242CT-ND	2.81	21.60	162.00	575.00/500	300HS-271J
330µH ± 5%	50	796KHz	50mA	TKS1243CT-ND	2.81	21.60	162.00	575.00/500	300HS-331J
390µH ± 5%	50	796KHz	50mA	TKS1244CT-ND	2.81	21.60	162.00	575.00/500	300HS-391J
470µH ± 5%	50	796KHz	45mA	TKS1245CT-ND	2.81	21.60	162.00	575.00/500	300HS-471J
560µH ± 5%	50	796KHz	45mA	TKS1246CT-ND	2.81	21.60	162.00	575.00/500	300SS-561J
680µH ± 5%	50	796KHz	40mA	TKS1247CT-ND	2.81	21.60	162.00	575.00/500	300SS-681J
820µH ± 5%	50	796KHz	50mA	TKS1248CT-ND	2.81	21.60	162.00	575.00/500	300SS-821J
1000µH ± 5%	50	796KHz	40mA	TKS1249CT-ND	2.81	21.60	162.00	575.00/500	300SS-102J
5CCD Type									
1.8µH ± 3%	45	7.96MHz	—	TKS2245CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9018Z
2.2µH ± 3%	45	7.96MHz	—	TKS2246CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9022Z
2.7µH ± 3%	50	7.96MHz	—	TKS2247CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9027IB
3.3µH ± 3%	55	7.96MHz	—	TKS2248CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9033Z
3.9µH ± 3%	55	7.96MHz	—	TKS2249CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9039Z
4.7µH ± 3%	55	7.96MHz	—	TKS2250CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9047Z
5.6µH ± 3%	65	7.96MHz	—	TKS2251CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9056Z
6.8µH ± 3%	65	7.96MHz	—	TKS2252CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9068Z
8.2µH ± 3%	65	7.96MHz	—	TKS2253CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9082Z
10.0µH ± 3%	45	2.52MHz	—	TKS2254CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9100Z
18.0µH ± 3%	45	2.52MHz	—	TKS2257CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9180Z
22.0µH ± 3%	45	2.52MHz	—	TKS2258CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9220Z
39.0µH ± 3%	45	2.52MHz	—	TKS2261CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9390Z
47.0µH ± 3%	45	2.52MHz	—	TKS2262CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9470Z
68.0µH ± 3%	30	2.52MHz	—	TKS2264CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9680Z
82.0µH ± 3%	30	2.52MHz	—	TKS2265CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9820Z
100µH ± 3%	45	796KHz	—	TKS2266CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9101Z
120µH ± 3%	45	796KHz	—	TKS2267CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9121Z
150µH ± 3%	45	796KHz	—	TKS2268CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9151Z
180µH ± 3%	45	796KHz	—	TKS2269CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9181Z
220µH ± 3%	45	796KHz	—	TKS2270CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9221Z
270µH ± 3%	45	796KHz	—	TKS2271CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9271Z
330µH ± 3%	45	796KHz	—	TKS2272CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9331Z
390µH ± 3%	45	796KHz	—	TKS2273CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9391Z
560µH ± 3%	45	796KHz	—	TKS2275CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9561Z
680µH ± 3%	45	796KHz	—	TKS2276CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9681Z
820µH ± 3%	45	796KHz	—	TKS2277CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9821Z
1000µH ± 3%	30	252KHz	—	TKS2278CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9102Z
1200µH ± 3%	30	252KHz	—	TKS2279CT-ND	3.34	25.68	192.60	—	614AN-9122Z
1300µH ± 3%	30	252KHz	—	TKS2280CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9132Z

L Nom.	Q Min.	Freq.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	★Tape & Reel Pricing	Toko Part No.
5CCE Type								
68nH ± 5%	60	100MHz	TKS2420CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0150Z
82nH ± 5%	63	100MHz	TKS2421CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0151Z
100nH ± 5%	65	100MHz	TKS2422CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0152Z
120nH ± 5%	68	100MHz	TKS2423CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0153Z
150nH ± 5%	63	100MHz	TKS2424CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0154Z
180nH ± 5%	73	100MHz	TKS2425CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0155Z
220nH ± 5%	60	100MHz	TKS2426CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0156Z
270nH ± 5%	72	100MHz	TKS2427CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0157Z
330nH ± 5%	75	100MHz	TKS2428CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0158Z
390nH ± 5%	68	100MHz	TKS2429CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0159Z
470nH ± 5%	67	100MHz	TKS2430CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0160Z
560nH ± 5%	68	100MHz	TKS2431CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0161Z
680nH ± 5%	50	30MHz	TKS2432CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0162Z
820nH ± 5%	48	30MHz	TKS2433CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0163Z
1000nH ± 5%	50	30MHz	TKS2434CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0164Z
1200nH ± 5%	48	30MHz	TKS2435CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0165Z
1500nH ± 5%	48	30MHz	TKS2436CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0166Z
1800nH ± 5%	47	30MHz	TKS2437CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0167Z
2200nH ± 5%	47	30MHz	TKS2438CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0168Z

★ For Tape & Reel Part No., change CT to TR.

9139B-ND Toko Coils & Filter Book **$9.95**

Fixed Surface Mount Inductors

32CS, 33CS, 36CS, D73C, D73F, D75C, D75F, D52FU, D62CB, D10F, D32FU, and D124C Types

Features:

32CS: • For dip-soldering type • Very small

33CS, 36CS: • High current • High Q for reflow soldering

D73F/C, D75F/C: • Miniature surface mount type • Low profile (3.2 or 4.8mm height) • Available in magnetically shielded or unshielded versions • Operating Temperature: -40°C to +80°C • Step up/Step down inductor for up to 4W DC/DC converter circuit • Current limiting inductor for DC/AC inverter circuit

D52FU: • Low profile (2.2mm typ. height) and 5mm square • Ideal for IC inverter EL lamp driver applications • Magnetically shielded version • Available on tape and reel for auto-insertion • Suitable for reflow soldering

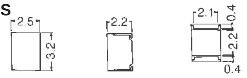
D62CB (with Ferrite Shield): • Low profile (2.5mm max.) • Ideal for a variety of DC-DC converter inductor applications • Magnetically shielded

D10F: • Low profile SMD type (5mm high) • Suitable for large current • Suitable for reflow soldering

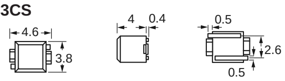
D32FU: • Low profile (2.2mm max.) and 3.5mm square • Ideal for IC inverter EL lamp driver applications • Available on tape and reel for auto-insertion • Suitable for reflow soldering

D124C: • Low profile (4.5mm max.) • Suitable for large currents

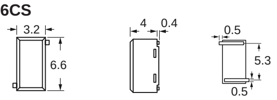
32CS



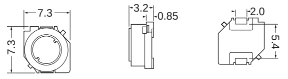
33CS



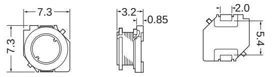
36CS



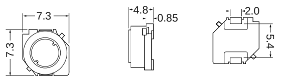
D73C



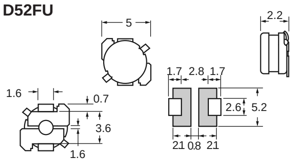
D73F



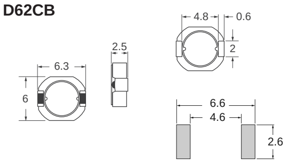
D75C/F



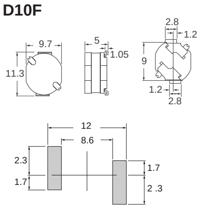
D52FU



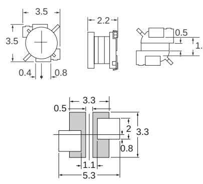
D62CB



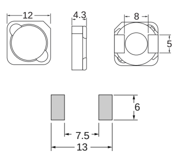
D10F



D32FU



D124C



Induct. L Nom.	L Tol. (%)	Q Min.	Test Freq.	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	★Tape & Reel Pricing	Toko Part No.
32CS Type										
27nH	±20	22	100MHz	410mA	TKS1006CT-ND	1.50	1.16	.87	786.00/1500	380NB-27NM
56nH	±20	25	100MHz	340mA	TKS1010CT-ND	1.50	1.16	.87	786.00/1500	380NB-56NM
68nH	±20	26	100MHz	320mA	TKS1011CT-ND	1.50	1.16	.87	786.00/1500	380NB-68NM
.15µH	±20	17	25.2MHz	230mA	TKS1015CT-ND	1.50	1.16	.87	—	380NB-R15M
1.0µH	±10	30	7.96MHz	235mA	TKS1025CT-ND	1.50	1.16	.87	786.00/1500	380LB-1R0K
1.2µH	±10	30	7.96MHz	225mA	TKS1026CT-ND	1.50	1.16	.87	—	380LB-1R2K
4.7µH	±10	30	7.96MHz	160mA	TKS1033CT-ND	1.50	1.16	.87	786.00/1500	380LB-4R7K
47µH	±5	30	2.52MHz	51.7mA	TKS1045CT-ND	1.50	1.16	.87	786.00/1500	380KB-470J
100µH	±5	18	.796MHz	37.3mA	TKS1049CT-ND	1.50	1.16	.87	786.00/1500	380HB-101J
220µH	±5	18	.796MHz	30.0mA	TKS1053CT-ND	1.50	1.16	.87	786.00/1500	380HB-221J
33CS Type										
6.8nH	±10	70	150MHz	1000mA	TKS2673CT-ND	1.01	.78	.59	710.00/2000	Y655LY-01K
15.3nH	±10	75	150MHz	1000mA	TKS2675CT-ND	2.18	1.68	1.26	1520.00/2000	Y655LY-03K
36CS Type										
22nH	±10	85	150MHz	1000mA	TKS2677CT-ND	2.13	1.64	1.23	1500.00/2000	656LZ-05K
27.5nH	±10	85	150MHz	1000mA	TKS2678CT-ND	2.13	1.64	1.23	1500.00/2000	656LZ-06K
33.1nH	±10	85	150MHz	1000mA	TKS2679CT-ND	1.01	.78	.59	—	656LZ-07K
41.1nH	±10	85	150MHz	1000mA	TKS2680CT-ND	2.13	1.64	1.23	1500.00/2000	656LZ-08K
49.8nH	±10	85	150MHz	1000mA	TKS2681CT-ND	2.13	1.64	1.23	1500.00/2000	656LZ-09K

TK11-KIT-ND (SPK-3336CS-1993)
33/36CS Air Coil Kit - 10 each of 9 values (90 parts), 6.8nH - 49.8nH $49.00

Induct. L Nom.	L Tolerance (%)	Test Frequency	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	★Tape & Reel Pricing	Toko Part No.
D73C Type, with Ferrite Shield									
1.0µH	±20	100KHz	3.12A	TKS2501CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-1R0M
1.5µH	±20	100KHz	2.85A	TKS2502CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-1R5M
2.2µH	±20	100KHz	2.66A	TKS2503CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-2R2M
3.3µH	±20	100KHz	2.26A	TKS2504CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-3R3M
4.7µH	±20	100KHz	1.96A	TKS2505CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-4R7M
6.8µH	±20	100KHz	1.76A	TKS2506CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-6R8M
10µH	±20	100KHz	1.34A	TKS2507CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-100M
12µH	±20	100KHz	1.23A	TKS2508CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-120M
15µH	±20	100KHz	1.09A	TKS2509CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-150M
18µH	±20	100KHz	.99A	TKS2539CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-180M
22µH	±20	100KHz	.90A	TKS2540CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-220M
27µH	±20	100KHz	.81A	TKS2541CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-270M
33µH	±20	100KHz	.72A	TKS2542CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-330M
47µH	±20	100KHz	.60A	TKS2544CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-470M
68µH	±20	100KHz	.50A	TKS2546CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-680M
82µH	±20	100KHz	.46A	TKS2547CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-820M
100µH	±20	100KHz	.41A	TKS2548CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-101M
D73F Type, Unshielded									
1.0µH	±20	100KHz	2.88A	TKS2520CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-1R0M
1.5µH	±20	100KHz	2.67A	TKS2521CT-ND	2.27	1.75	1.32	1110.00/1000	636FY-1R5M
2.2µH	±20	100KHz	2.40A	TKS2522CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-2R2M
3.3µH	±20	100KHz	2.08A	TKS2523CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-3R3M
4.7µH	±20	100KHz	1.92A	TKS2524CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-4R7M
10µH	±20	100KHz	1.41A	TKS2526CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-100M
18µH	±20	100KHz	1.00A	TKS2529CT-ND	2.27	1.75	1.32	1110.00/1000	636FY-180M
22µH	±20	100KHz	.93A	TKS2530CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-220M
47µH	±20	100KHz	.59A	TKS2534CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-470M
68µH	±20	100KHz	.49A	TKS2536CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-680M
82µH	±20	100KHz	.44A	TKS2537CT-ND	2.27	1.75	1.32	—	636FY-820M
100µH	±20	100KHz	.38A	TKS2538CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-101M
D75C Type, with Ferrite Shield									
100µH	± 20	100KHz	0.5A	TKS2559CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-101M
120µH	± 20	100KHz	0.47A	TKS2560CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-121M
150µH	± 20	100KHz	0.4A	TKS2561CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-151M
180µH	± 20	100KHz	0.39A	TKS2562CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-181M
220µH	± 20	100KHz	0.33A	TKS2563CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-221M
270µH	± 20	100KHz	0.31A	TKS2564CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-271M
330µH	± 20	100KHz	0.27A	TKS2565CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-331M
470µH	± 20	100KHz	0.25A	TKS2567CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-471M
560µH	± 20	100KHz	0.22A	TKS2568CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-561M
D75F Type, Unshielded									
100µH	± 20	100KHz	0.51A	TKS2550CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-101M
120µH	± 10	100KHz	0.42A	TKS2551CT-ND	2.27	1.75	1.32	—	646FY-121K
150µH	±10	100KHz	0.37A	TKS2552CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-151K
180µH	±10	100KHz	0.35A	TKS2553CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-181K
220µH	±10	100KHz	0.29A	TKS2554CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-221K
270µH	±10	100KHz	0.28A	TKS2555CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-271K
330µH	±10	100KHz	0.23A	TKS2556CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-331K
390µH	±10	100KHz	0.215A	TKS2557CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-391K
470µH	±10	100KHz	0.195A	TKS2558CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-471K

Indct. L Nom.	L Tol. (%)	SRF† (MHz)	DC Resistance (Ω)	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	★Tape & Reel Pricing	Toko Part No.
D52FU Type										
470µH	±20	5.17	6.78	140mA	TKS3500CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-471M
560µH	±20	4.83	9.43	125mA	TKS3501CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-561M
680µH	±20	4.27	10.79	115mA	TKS3502CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-681M
820µH	±20	3.94	12.35	105mA	TKS3503CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-821M
1000µH	±20	3.61	16.32	95mA	TKS3504CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-102M
1200µH	±20	3.17	18.64	88mA	TKS3505CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-122M
1500µH	±20	2.65	22.19	83mA	TKS3506CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-152M
1800µH	±20	2.51	27.73	74mA	TKS3507CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-182M
2200µH	±20	2.38	32.13	64mA	TKS3508CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-222M
2700µH	±20	2.11	37.61	61mA	TKS3509CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-272M
3200µH	±20	1.97	51.89	50mA	TKS3510CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-332M
3900µH	±20	1.81	58.84	50mA	TKS3511CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-392M
4700µH	±20	1.63	80.21	42mA	TKS3512CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-472M
5600µH	±20	1.46	92.12	40mA	TKS3513CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-562M
6800µH	±20	1.33	106.41	37mA	TKS3514CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-682M

Induct. L (µH)	L Tol. (%)	DC Resistance (mΩ)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	★Tape & Reel Pricing	Toko Part No.
D62CB Type									
1.0	±20	11	3.48A	TKS5510CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-1R0M
1.5	±20	14	2.83A	TKS5511CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-1R5M
2.0	±20	17	2.44A	TKS5512CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-2R0M
3.3	±20	24	1.89A	TKS5513CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-3R3M
4.3	±20	31	1.65A	TKS5514CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-4R3M
6.2	±20	43	1.37A	TKS5515CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-6R2M
10.0	±20	64	1.07A	TKS5516CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-100M
12.0	±20	75	0.97A	TKS5517CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-120M
15.0	±20	87	0.87A	TKS5518CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-150M
18.0	±20	110	0.79A	TKS5519CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-180M
22.0	±20	130	0.71A	TKS5520CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-220M
27.0	±20	170	0.64A	TKS5521CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-270M
33.0	±20	195	0.58A	TKS5522CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-330M
39.0	±20	245	0.53A	TKS5523CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-390M
47.0	±20	290	0.48A	TKS5524CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-470M
56.0	±20	345	0.44A	TKS5525CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-560M
68.0	±20	400	0.40A	TKS5526CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-680M
82.0	±20	465	0.36A	TKS5527CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-820M

TK18-KIT-ND (SPK-D62CB-1999)
D62CB Series Fixed Inductor Kit - 3 each of 18 values (54 parts), 1.0µH - 82.0µH $58.80

★ For Tape & Reel part number, change CT-ND to TR-ND. † Self Resonance Frequency (MHz)

(Continued)

TOKO Fixed Surface Mount Inductors *(Cont.)*

Induct. L (µH)	L Tol. (%)	Test Freq.	DC Resistance (Ω)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	★Tape & Reel Pricing	Toko Part No.
D10F Type										
10	±20	100KHz	0.047	2.60A	TKS5460CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-100M
12	±20	100KHz	0.050	2.48A	TKS5461CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-120M
15	±20	100KHz	0.058	2.27A	TKS5462CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-150M
18	±20	100KHz	0.067	2.15A	TKS5463CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-180M
22	±20	100KHz	0.075	2.00A	TKS5464CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-220M
27	±20	100KHz	0.087	1.84A	TKS5465CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-270M
33	±20	100KHz	0.095	1.72A	TKS5466CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-330M
39	±20	100KHz	0.12	1.58A	TKS5467CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-390M
47	±10	100KHz	0.15	1.44A	TKS5468CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-470K
56	±10	100KHz	0.18	1.28A	TKS5469CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-560K
68	±10	100KHz	0.20	1.20A	TKS5470CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-680K
82	±10	100KHz	0.23	1.09A	TKS5471CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-820K
100	±10	100KHz	0.27	1.05A	TKS5472CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-101K
120	±10	100KHz	0.33	0.92A	TKS5473CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-121K
150	±10	100KHz	0.40	0.80A	TKS5474CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-151K
180	±10	100KHz	0.53	0.73A	TKS5475CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-181K
220	±10	100KHz	0.60	0.69A	TKS5476CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-221K
270	±10	100KHz	0.84	0.60A	TKS5477CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-271K
330	±10	100KHz	1.00	0.53A	TKS5478CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-331K
390	±10	100KHz	1.09	0.49A	TKS5479CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-391K
470	±10	100KHz	1.25	0.46A	TKS5480CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-471K
560	±10	100KHz	1.63	0.41A	TKS5481CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-561K
680	±10	100KHz	1.90	0.38A	TKS5482CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-681K
820	±10	100KHz	2.44	0.34A	TKS5483CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-821K
1000	±10	100KHz	2.80	0.31A	TKS5484CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-102K
1200	±10	100KHz	3.67	0.27A	TKS5485CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-122K
1500	±10	100KHz	4.37	0.25A	TKS5486CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-152K

Induct. L (mH)	L Tol. (%)	DC Resistance (Ω)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	★Tape & Reel Pricing	Toko Part No.
D32FU Type									
0.33	±20	9.7	109mA	TKS5530CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-331M
0.39	±20	12	98mA	TKS5531CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-391M
0.47	±20	14	90mA	TKS5532CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-471M
0.56	±20	18	81mA	TKS5533CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-561M
0.68	±20	20	74mA	TKS5534CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-681M
0.82	±20	30	71mA	TKS5535CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-821M
1.0	±20	34	66mA	TKS5536CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-102M
1.2	±20	35	57mA	TKS5537CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-122M
1.5	±20	56	52mA	TKS5538CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-152M
1.8	±20	59	46mA	TKS5539CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-182M
2.2	±20	67	43mA	TKS5540CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-222M
2.5	±20	81	42mA	TKS5541CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-252M
2.7	±20	93	38mA	TKS5542CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-272M
3.3	±20	113	36mA	TKS5543CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-332M

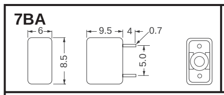
TK19-KIT-ND (SPK-D32FU-1999)
D32FU Series Fixed Inductor Kit - 3 each of 14 values (42 parts), 0.33mH - 3.3mH $52.27

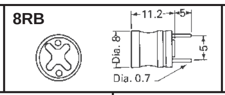
Induct. L (µH)	L Tol. (%)	Test Freq.	DC Resistance (Ω)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	★Tape & Reel Pricing	Toko Part No.
D124C Type										
3.3	±20	100KHz	13.5 (9.70)	6.2A	TKS5490CT-ND	6.24	4.80	3.60	1305.00/500	892NAS-3R3M
4.7	±20	100KHz	15.5 (11.8)	5.6A	TKS5491CT-ND	6.24	4.80	3.60	1305.00/500	892NAS-4R7M
6.2	±20	100KHz	17.0 (13.5)	5.1A	TKS5492CT-ND	6.24	4.80	3.60	1305.00/500	892NAS-6R2M
8.2	±20	100KHz	19.0 (15.3)	4.4A	TKS5493CT-ND	6.24	4.80	3.60	1305.00/500	892NAS-8R2M
10.0	±20	100KHz	22.5 (18.0)	4.2A	TKS5494CT-ND	6.24	4.80	3.60	1305.00/500	892NAS-100M
15.0	±20	100KHz	35.5 (29.6)	3.2A	TKS5495CT-ND	5.23	4.50	3.50	1305.00/500	892NAS-150M
18.0	±20	100KHz	42.0 (34.4)	3.0A	TKS5496CT-ND	6.24	4.80	3.60	1305.00/500	892NAS-180M
22.0	±20	100KHz	45.0 (37.4)	2.5A	TKS5497CT-ND	6.24	4.80	3.60	1305.00/500	892NBS-220M
33.0	±20	100KHz	56.0 (45.7)	1.9A	TKS5498CT-ND	6.24	4.80	3.60	1305.00/500	892NCS-330M
47.0	±20	100KHz	94.5 (77.7)	1.7A	TKS5499CT-ND	6.24	4.80	3.60	1305.00/500	892NBS-470M
68.0	±20	100KHz	170 (133)	1.4A	TKS5500CT-ND	6.24	4.80	3.60	1305.00/500	892NBF-680M
82.0	±20	100KHz	190 (148)	1.3A	TKS5501CT-ND	6.24	4.80	3.60	1305.00/500	892NCF-820M
100.0	±20	100KHz	210 (167)	1.1A	TKS5502CT-ND	6.24	4.80	3.60	1305.00/500	892NCF-101M

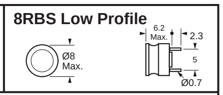
TK17-KIT-ND (SPK-D124C-1999)
D124C Series Fixed Inductor Kit - 3 each of 13 values (39 parts), 3.3µH - 100.0µH $66.97

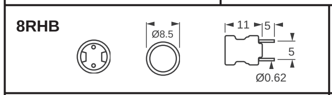
★ For Tape & Reel part number, change CT-ND to TR-ND. † Self Resonance Frequency (MHz)

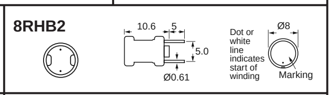
TOKO Fixed Inductors

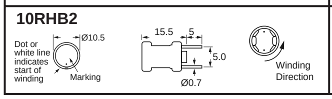


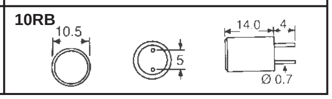












L. Nom.	Test Freq.	Q. Min.	Rated DC Current	Digi-Key Part No.	Price Each 1	10	100	500	Toko Part No.
7BA Type									
1.1µH	7.96MHz	30	30mA	TK4201-ND	.56	.50	.45	.42	144LY-1R1K
1.3µH	7.96MHz	30	30mA	TK4203-ND	.56	.50	.45	.42	144LY-1R3K
1.6µH	7.96MHz	30	30mA	TK4205-ND	.56	.50	.45	.42	144LY-1R6K
3.0µH	7.96MHz	30	30mA	TK4211-ND	1.95	1.45	1.31	.98	144LY-3R0K
3.3µH	7.96MHz	30	30mA	TK4212-ND	1.95	1.45	1.31	.98	144LY-3R3K
3.6µH	7.96MHz	30	30mA	TK4213-ND	1.95	1.45	1.31	.98	144LY-3R6K
3.9µH	7.96MHz	30	30mA	TK4214-ND	1.95	1.45	1.31	.98	144LY-3R9K
5.1µH	7.96MHz	30	30mA	TK4217-ND	.56	.50	.45	.42	144LY-5R1K
8.2µH	7.96MHz	30	30mA	TK4222-ND	1.95	1.45	1.31	.98	144LY-8R2K
10µH	7.96MHz	30	30mA	TK4224-ND	1.95	1.45	1.31	.98	144LY-100J
15µH	2.52MHz	30	30mA	TK4228-ND	1.95	1.45	1.31	.98	144LY-150J
20µH	2.52MHz	30	30mA	TK4231-ND	1.95	1.45	1.31	.98	144LY-200J
33µH	2.52MHz	30	30mA	TK4236-ND	1.95	1.45	1.31	.98	144LY-330J
47µH	2.52MHz	30	30mA	TK4251-ND	1.95	1.45	1.31	.98	144HY-470J
51µH	2.52MHz	30	30mA	TK4252-ND	.56	.50	.45	.42	144HY-510J
62µH	2.52MHz	30	30mA	TK4254-ND	.56	.50	.45	.42	144HY-620J
100µH	2.52MHz	30	30mA	TK4259-ND	1.95	1.45	1.31	.98	144HY-101J
330µH	796KHz	30	30mA	TK4271-ND	1.95	1.45	1.31	.98	144HY-331J
360µH	796KHz	30	30mA	TK4272-ND	.56	.50	.45	.42	144HY-361J
390µH	796KHz	30	30mA	TK4273-ND	.56	.50	.45	.42	144HY-391J
430µH	796KHz	30	30mA	TK4274-ND	1.95	1.45	1.31	.98	144HY-431J
470µH	796KHz	30	30mA	TK4275-ND	1.95	1.45	1.31	.98	144HY-471J
510µH	796KHz	30	30mA	TK4276-ND	1.95	1.45	1.31	.98	144HY-511J
1000µH	796KHz	30	30mA	TK4283-ND	1.95	1.45	1.31	.98	144HY-102J
8RB Type									
.10mH	796KHz	80	200mA	TK4300-ND	2.04	1.67	.83	.70	187LY-101J
.12mH	796KHz	80	200mA	TK4301-ND	2.04	1.67	.83	.70	187LY-121J
.15mH	796KHz	80	200mA	TK4302-ND	2.04	1.67	.83	.70	187LY-151J
.18mH	796KHz	80	200mA	TK4303-ND	2.04	1.67	.83	.70	187LY-181J
.22mH	796KHz	80	200mA	TK4304-ND	.76	.68	.61	.56	187LY-221J
.27mH	796KHz	80	200mA	TK4305-ND	2.04	1.67	.83	.70	187LY-271J
.33mH	796KHz	80	200mA	TK4306-ND	2.04	1.67	.83	.70	187LY-331J
.39mH	796KHz	80	200mA	TK4307-ND	2.04	1.67	.83	.70	187LY-391J
.47mH	796KHz	80	200mA	TK4308-ND	2.04	1.67	.83	.70	187LY-471J
.56mH	796KHz	80	200mA	TK4309-ND	2.04	1.67	.83	.70	187LY-561J
.68mH	796KHz	80	200mA	TK4310-ND	2.04	1.67	.83	.70	187LY-681J
.82mH	796KHz	80	200mA	TK4311-ND	2.04	1.67	.83	.70	187LY-821J
1.0mH	252KHz	80	150mA	TK4312-ND	2.04	1.67	.83	.70	187LY-102J
1.2mH	252KHz	90	150mA	TK4313-ND	2.04	1.67	.83	.70	187LY-122J
1.5mH	252KHz	90	150mA	TK4314-ND	2.04	1.67	.83	.70	187LY-152J
2.2mH	252KHz	90	100mA	TK4316-ND	2.04	1.67	.83	.70	187LY-222J
2.7mH	252KHz	90	100mA	TK4317-ND	2.04	1.67	.83	.70	187LY-272J
3.3mH	252KHz	90	100mA	TK4318-ND	2.04	1.67	.83	.70	187LY-332J
3.9mH	252KHz	90	50mA	TK4319-ND	2.04	1.67	.83	.70	187LY-392J
4.7mH	252KHz	90	50mA	TK4320-ND	2.04	1.67	.83	.70	187LY-472J
5.6mH	252KHz	90	50mA	TK4321-ND	2.04	1.67	.83	.70	187LY-562J
6.8mH	252KHz	90	50mA	TK4322-ND	2.04	1.67	.83	.70	187LY-682J
8.2mH	252KHz	90	50mA	TK4323-ND	2.04	1.67	.83	.70	187LY-822J
10mH	79.6KHz	100	40mA	TK4324-ND	2.04	1.67	.83	.70	187LY-103J
12mH	79.6KHz	100	40mA	TK4325-ND	2.04	1.67	.83	.70	187LY-123J
15mH	79.6KHz	100	40mA	TK4326-ND	2.04	1.67	.83	.70	187LY-153J
18mH	79.6KHz	100	30mA	TK4327-ND	2.04	1.67	.83	.70	187LY-183J
27mH	79.6KHz	100	30mA	TK4329-ND	2.04	1.67	.83	.70	187LY-273J
33mH	79.6KHz	100	30mA	TK4330-ND	2.04	1.67	.83	.70	187LY-333J
8RBS Type Low Profile									
.10mH	796kHz	60	200mA	TK4333-ND	2.41	1.71	.98	.82	262LY-101K
.47mH	796kHz	60	100mA	TK4388-ND	2.41	1.71	.98	.82	262LY-471K
1.0mH	252kHz	80	50mA	TK4392-ND	2.41	1.71	.98	.82	262LY-102K
1.5mH	252kHz	80	50mA	TK4394-ND	2.41	1.71	.98	.82	262LY-152K
2.2mH	252kHz	80	50mA	TK4396-ND	2.41	1.71	.98	.82	262LY-222K
4.7mH	252kHz	80	40mA	TK4340-ND	2.41	1.71	.98	.82	262LY-472K
8.2mH	252kHz	80	30mA	TK4337-ND	2.41	1.71	.98	.82	262LY-822K
10.0mH	79.6kHz	60	20mA	TK4336-ND	2.41	1.71	.98	.82	262LY-103K
15.0mH	79.6kHz	60	20mA	TK4334-ND	2.41	1.71	.98	.82	262LY-153K
8RHB Type									
1.0µH	7.96MHz	20	10A	TK4430-ND	2.51	2.04	1.02	.85	622LY-1R0M
1.5µH	7.96MHz	20	8.5A	TK4431-ND	2.51	2.04	1.02	.85	622LY-1R5M
2.2µH	7.96MHz	20	6.5A	TK4432-ND	2.51	2.04	1.02	.85	622LY-2R2M
3.3µH	7.96MHz	20	5.5A	TK4433-ND	2.51	2.04	1.02	.85	622LY-3R3M
4.7µH	7.96MHz	20	4.3A	TK4434-ND	2.51	2.04	1.02	.85	622LY-4R7M
6.8µH	7.96MHz	20	3.7A	TK4435-ND	2.51	2.04	1.02	.85	622LY-6R8M
10µH	2.52MHz	50	3.0A	TK4436-ND	2.51	2.04	1.02	.85	622LY-100K
12µH	2.52MHz	50	2.6A	TK4437-ND	2.51	2.04	1.02	.85	622LY-120K
15µH	2.52MHz	50	2.3A	TK4438-ND	2.51	2.04	1.02	.85	622LY-150K
18µH	2.52MHz	40	2.2A	TK4439-ND	2.51	2.04	1.02	.85	622LY-180K
22µH	2.52MHz	40	2.0A	TK4440-ND	2.51	2.04	1.02	.85	622LY-220K
27µH	2.52MHz	40	1.7A	TK4441-ND	2.51	2.04	1.02	.85	622LY-270K
33µH	2.52MHz	30	1.6A	TK4442-ND	2.51	2.04	1.02	.85	622LY-330K
39µH	2.52MHz	30	1.5A	TK4443-ND	2.51	2.04	1.02	.85	622LY-390K
47µH	2.52MHz	30	1.4A	TK4444-ND	2.51	2.04	1.02	.85	622LY-470K
56µH	2.52MHz	30	1.3A	TK4445-ND	2.51	2.04	1.02	.85	622LY-560K
68µH	2.52MHz	30	1.2A	TK4446-ND	2.51	2.04	1.02	.85	622LY-680K
82µH	2.52MHz	30	1.1A	TK4447-ND	2.51	2.04	1.02	.85	622LY-820K
100µH	0.796MHz	20	0.91A	TK4448-ND	2.51	2.04	1.02	.85	622LY-101K
120µH	0.796MHz	20	0.84A	TK4449-ND	2.51	2.04	1.02	.85	622LY-121K
150µH	0.796MHz	20	0.75A	TK4450-ND	2.51	2.04	1.02	.85	622LY-151K
180µH	0.796MHz	20	0.69A	TK4451-ND	2.51	2.04	1.02	.85	622LY-181K
220µH	0.796MHz	20	0.64A	TK4452-ND	2.51	2.04	1.02	.85	622LY-221K
270µH	0.796MHz	20	0.57A	TK4453-ND	2.51	2.04	1.02	.85	622LY-271K
330µH	0.796MHz	20	0.54A	TK4454-ND	2.51	2.04	1.02	.85	622LY-331K
390µH	0.796MHz	20	0.48A	TK4455-ND	2.51	2.04	1.02	.85	622LY-391K
470µH	0.796MHz	20	0.46A	TK4456-ND	2.51	2.04	1.02	.85	622LY-471K
560µH	0.796MHz	20	0.41A	TK4457-ND	2.51	2.04	1.02	.85	622LY-561K
680µH	0.796MHz	20	0.38A	TK4458-ND	2.51	2.04	1.02	.85	622LY-681K
820µH	0.796MHz	20	0.35A	TK4459-ND	2.51	2.04	1.02	.85	622LY-821K
1000µH	0.252MHz	50	0.29A	TK4460-ND	2.51	2.04	1.02	.85	622LY-102K
L. Nom.	**Test Freq.**	**SRF**	**Rated DC Current**	**Digi-Key Part No.**	**Price Each 1**	**10**	**100**	**500**	**Toko Part No.**
8RHB2 Type									
1.0µH	1kHz	150MHz	3.71A	TK4461-ND	2.51	2.22	1.02	.85	822MY-1R0M
1.5µH	1kHz	130MHz	3.32A	TK4462-ND	2.51	2.22	1.02	.85	822MY-1R5M
2.2µH	1kHz	100MHz	3.15A	TK4463-ND	2.51	2.22	1.02	.85	822MY-2R2M
3.3µH	1kHz	79MHz	2.66A	TK4464-ND	2.51	2.22	1.02	.85	822MY-3R3M
4.7µH	1kHz	51MHz	2.27A	TK4465-ND	2.51	2.22	1.02	.85	822MY-4R7M
6.8µH	1kHz	29MHz	2.10A	TK4466-ND	2.51	2.22	1.02	.85	822MY-6R8M
10µH	1kHz	14MHz	1.96A	TK4467-ND	2.51	2.22	1.02	.85	822MY-100K
12µH	1kHz	13MHz	1.82A	TK4468-ND	2.51	2.22	1.02	.85	822MY-120K
15µH	1kHz	12MHz	1.75A	TK4469-ND	2.51	2.22	1.02	.85	822MY-150K

(Continued)

TOKO Fixed Inductors *(Cont.)*

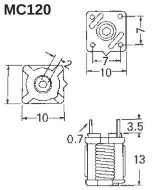
L. Nom.	Test Freq.	SRF	Rated DC Current	Digi-Key Part No.	Price Each				Toko Part No.
					1	10	100	500	
18µH	1kHz	11MHz	1.54A	TK4470-ND	2.51	2.22	1.02	.85	822MY-180K
22µH	1kHz	9.2MHz	1.29A	TK4471-ND	2.51	2.22	1.02	.85	822MY-220K
27µH	1kHz	8.5MHz	1.22A	TK4472-ND	2.51	2.22	1.02	.85	822MY-270K
33µH	1kHz	7.8MHz	1.17A	TK4473-ND	2.51	2.22	1.02	.85	822MY-330K
39µH	1kHz	6.9MHz	1.14A	TK4474-ND	2.51	2.22	1.02	.85	822MY-390K
47µH	1kHz	6.5MHz	0.79A	TK4475-ND	2.51	2.22	1.02	.85	822MY-470K
56µH	1kHz	5.4MHz	0.76A	TK4476-ND	2.51	2.22	1.02	.85	822MY-560K
68µH	1kHz	4.9MHz	0.70A	TK4477-ND	2.51	2.22	1.02	.85	822MY-680K
82µH	1kHz	4.1MHz	0.67A	TK4478-ND	2.51	2.22	1.02	.85	822MY-820K
100µH	1kHz	3.7MHz	0.58A	TK4479-ND	2.51	2.22	1.02	.85	822MY-101K
120µH	1kHz	3.4MHz	0.56A	TK4480-ND	2.51	2.22	1.02	.85	822MY-121K
150µH	1kHz	3.2MHz	0.42A	TK4481-ND	2.51	2.22	1.02	.85	822MY-151K
180µH	1kHz	2.8MHz	0.40A	TK4482-ND	2.51	2.22	1.02	.85	822MY-181K
220µH	1kHz	2.7MHz	0.38A	TK4483-ND	2.51	2.22	1.02	.85	822MY-221K
270µH	1kHz	2.4MHz	0.35A	TK4484-ND	2.51	2.22	1.02	.85	822MY-271K
330µH	1kHz	2.3MHz	0.33A	TK4485-ND	2.51	2.22	1.02	.85	822MY-331K
390µH	1kHz	2.1MHz	0.28A	TK4486-ND	2.51	2.22	1.02	.85	822MY-391K
470µH	1kHz	1.9MHz	0.25A	TK4487-ND	2.51	2.22	1.02	.85	822MY-471K
560µH	1kHz	1.8MHz	0.23A	TK4488-ND	2.51	2.22	1.02	.85	822MY-561K
680µH	1kHz	1.6MHz	0.21A	TK4489-ND	2.51	2.22	1.02	.85	822MY-681K
820µH	1kHz	1.5MHz	0.18A	TK4490-ND	2.51	2.22	1.02	.85	822MY-821K
1000µH	1kHz	1.3MHz	0.16A	TK4491-ND	2.51	2.22	1.02	.85	822MY-102K
10RHB2 Type									
10µH	1kHz	44.0MHz	2.20A	TK5152-ND	5.57	4.77	2.25	1.89	824MY-100K
12µH	1kHz	33.0MHz	2.00A	TK5153-ND	5.57	4.77	2.25	1.89	824MY-120K
15µH	1kHz	25.0MHz	1.93A	TK5154-ND	5.57	4.77	2.25	1.89	824MY-150K
18µH	1kHz	16.0MHz	1.77A	TK5155-ND	5.57	4.77	2.25	1.89	824MY-180K
22µH	1kHz	12.0MHz	1.72A	TK5156-ND	5.57	4.77	2.25	1.89	824MY-220K
27µH	1kHz	8.30MHz	1.56A	TK5157-ND	5.57	4.77	2.25	1.89	824MY-270K
33µH	1kHz	5.90MHz	1.49A	TK5158-ND	5.57	4.77	2.25	1.89	824MY-330K
39µH	1kHz	4.90MHz	1.40A	TK5159-ND	5.57	4.77	2.25	1.89	824MY-390K
47µH	1kHz	4.10MHz	1.29A	TK5160-ND	5.57	4.77	2.25	1.89	824MY-470K
56µH	1kHz	4.00MHz	1.25A	TK5161-ND	5.57	4.77	2.25	1.89	824MY-560K
68µH	1kHz	3.90MHz	1.24A	TK5162-ND	5.57	4.77	2.25	1.89	824MY-680K
82µH	1kHz	3.60MHz	1.04A	TK5163-ND	5.57	4.77	2.25	1.89	824MY-820K
100µH	1kHz	2.80MHz	1.02A	TK5164-ND	5.57	4.77	2.25	1.89	824MY-101K
120µH	1kHz	2.60MHz	0.94A	TK5165-ND	5.57	4.77	2.25	1.89	824MY-121K
150µH	1kHz	2.20MHz	0.92A	TK5166-ND	5.57	4.77	2.25	1.89	824MY-151K
180µH	1kHz	2.10MHz	0.85A	TK5167-ND	5.57	4.77	2.25	1.89	824MY-181K
220µH	1kHz	1.90MHz	0.82A	TK5168-ND	5.57	4.77	2.25	1.89	824MY-221K
270µH	1kHz	1.60MHz	0.60A	TK5169-ND	5.57	4.77	2.25	1.89	824MY-271K
330µH	1kHz	1.50MHz	0.56A	TK5170-ND	5.57	4.77	2.25	1.89	824MY-331K
390µH	1kHz	1.40MHz	0.52A	TK5171-ND	5.57	4.77	2.25	1.89	824MY-391K
470µH	1kHz	1.30MHz	0.48A	TK5172-ND	5.57	4.77	2.25	1.89	824MY-471K
560µH	1kHz	1.20MHz	0.45A	TK5173-ND	5.57	4.77	2.25	1.89	824MY-561K
680µH	1kHz	1.10MHz	0.44A	TK5174-ND	5.57	4.77	2.25	1.89	824MY-681K
820µH	1kHz	1.00MHz	0.40A	TK5175-ND	5.57	4.77	2.25	1.89	824MY-821K
1000µH	1kHz	0.87MHz	0.31A	TK5176-ND	5.57	4.77	2.25	1.89	824MY-102K
1200µH	1kHz	0.83MHz	0.28A	TK5177-ND	5.57	4.77	2.25	1.89	824MY-122K
1500µH	1kHz	0.77MHz	0.27A	TK5178-ND	5.57	4.77	2.25	1.89	824MY-152K
1800µH	1kHz	0.71MHz	0.24A	TK5179-ND	5.57	4.77	2.25	1.89	824MY-182K
2200µH	1kHz	0.66MHz	0.24A	TK5180-ND	5.57	4.77	2.25	1.89	824MY-222K
2700µH	1kHz	0.61MHz	0.19A	TK5181-ND	5.57	4.77	2.25	1.89	824MY-272K
3300µH	1kHz	0.52MHz	0.18A	TK5182-ND	5.57	4.77	2.25	1.89	824MY-332K
3900µH	1kHz	0.48MHz	0.16A	TK5183-ND	5.57	4.77	2.25	1.89	824MY-392K

L. Nom.	Test Freq.	Q. Min.	Rated DC Current	Digi-Key Part No.	Price Each				Toko Part No.
					1	10	100	500	
10RB Type									
1.0mH	50KHz	70	90mA	TK4400-ND	3.75	3.06	1.52	1.28	181LY-102J
2.2mH	50KHz	70	60mA	TK4404-ND	3.75	3.06	1.52	1.28	181LY-222J
3.3mH	50KHz	100	50mA	TK4406-ND	3.75	3.06	1.52	1.28	181LY-332J
4.7mH	50KHz	100	40mA	TK4408-ND	3.75	3.06	1.52	1.28	181LY-472J
5.6mH	50KHz	100	40mA	TK4409-ND	3.75	3.06	1.52	1.28	181LY-562J
6.8mH	50KHz	100	35mA	TK4410-ND	3.75	3.06	1.52	1.28	181LY-682J
8.2mH	50KHz	100	30mA	TK4411-ND	3.75	3.06	1.52	1.28	181LY-822J
10.0mH	50KHz	100	25mA	TK4412-ND	3.75	3.06	1.52	1.28	181LY-103J
18mH	50KHz	100	22mA	TK4415-ND	3.75	3.06	1.52	1.28	181LY-183J
22mH	50KHz	100	21mA	TK4416-ND	3.75	3.06	1.52	1.28	181LY-223J
33mH	50KHz	100	18mA	TK4418-ND	3.75	3.06	1.52	1.28	181LY-333J
39mH	50KHz	100	15mA	TK4420-ND	3.75	3.06	1.52	1.28	181LY-393J
47mH	50KHz	100	13mA	TK4421-ND	3.75	3.06	1.52	1.28	181LY-473J
100mH	50KHz	100	9mA	TK4425-ND	3.75	3.06	1.52	1.28	181LY-104J
120mH	50KHz	100	8mA	TK4426-ND	3.75	3.06	1.52	1.28	181LY-124J

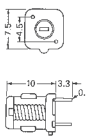
TOKO Molded Coils

9139B-ND	Toko Coils & Filter Book	**$9.95**

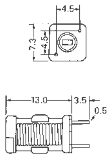
MC120



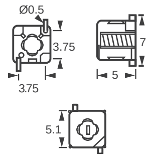
MC122



MC134



SMT MC152



TK9001-ND	Plastic Tuning Tool (MC120)	**$1.01**
TK9003-ND	Plastic Tuning Tool (MC122, MC134)	**$.35**
TK9992-ND	Ceramic Tuning Driver (MC122, MC134) (Requires Holder TK9999-ND, below)	**$23.71**
TK9995-ND	Ceramic Tuning Driver (MC152) (Requires Holder TK9999-ND, below)	**$44.85**
TK9996-ND	Ceramic Tuning Driver (MC120) (Requires Holder TK9999-ND, below)	**$31.39**
TK9999-ND	Ceramic Driver Holder	**$4.16**

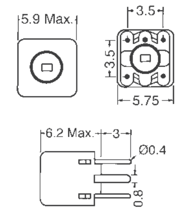
Turns/ Color	L Nom.	Freq.	Q.	Digi-Key Part No.	Price Each				Toko Part No.
					1	10	100	500	
MC120 with Case									
1 1/2 BRW	.0393µH	100MHz	80	TK2701-ND	5.44	4.76	2.07	1.55	E526HNA-100294
2 1/2 RED	.065µH	100MHz	90	TK2702-ND	5.44	4.76	2.07	1.55	E526HNA-100295
3 1/2 ORG	.0994µH	100MHz	100	TK2703-ND	5.44	4.76	2.07	1.55	E526HNA-100296
4 1/2 YEL	.141µH	100MHz	100	TK2704-ND	5.44	4.76	2.07	1.55	E526HNA-100297
5 1/2 GRN	.169µH	50MHz	80	TK2705-ND	5.44	4.76	2.07	1.55	E526HNA-100298
6 1/2 BLU	.211µH	50MHz	80	TK2706-ND	5.44	4.76	2.07	1.55	E526HNA-100299
7 1/2 VIO	.241µH	50MHz	80	TK2707-ND	5.44	4.76	2.07	1.55	E526HNA-100300
8 1/2 GRY	.29µH	50MHz	80	TK2708-ND	5.44	4.76	2.07	1.55	E526HNA-100301
9 1/2 WHT	.338µH	50MHz	80	TK2709-ND	5.44	4.76	2.07	1.55	E526HNA-100079
1 1/2 BRW	.0367µH	100MHz	80	TK2710-ND	5.44	4.76	2.07	1.55	E526HNA-100310
2 1/2 RED	.0583µH	100MHz	90	TK2711-ND	5.44	4.76	2.07	1.55	E526HNA-100311
3 1/2 ORG	.0845µH	100MHz	100	TK2712-ND	5.44	4.76	2.07	1.55	E526HNA-100312
4 1/2 YEL	.108µH	100MHz	110	TK2713-ND	5.44	4.76	2.07	1.55	E526HNA-100313
5 1/2 GRN	.137µH	100MHz	110	TK2714-ND	5.44	4.76	2.07	1.55	E526HNA-100314
MC120 without Case									
1 1/2 BRW	.0461µH	100MHz	120	TK2715-ND	5.44	4.76	2.07	1.55	E526HN-100302
2 1/2 RED	.0845µH	100MHz	130	TK2716-ND	5.44	4.76	2.07	1.55	E526HN-100303
3 1/2 ORG	.13µH	100MHz	130	TK2717-ND	5.44	4.76	2.07	1.55	E526HN-100304
4 1/2 YEL	.195µH	100MHz	140	TK2718-ND	5.44	4.76	2.07	1.55	E526HN-100305
5 1/2 GRN	.241µH	50MHz	100	TK2719-ND	5.44	4.76	2.07	1.55	E526HN-100306
6 1/2 BLU	.317µH	50MHz	100	TK2720-ND	5.44	4.76	2.07	1.55	E526HN-100307
7 1/2 VIO	.358µH	50MHz	100	TK2721-ND	5.44	4.76	2.07	1.55	E526HN-100308
8 1/2 GRY	.441µH	50MHz	100	TK2722-ND	5.44	4.76	2.07	1.55	E526HN-100309
9 1/2 WHT	.534µH	50MHz	100	TK2723-ND	5.44	4.76	2.07	1.55	E526HN-100109
1 1/2 BRW	.0437µH	100MHz	100	TK2724-ND	5.44	4.76	2.07	1.55	E526HN-100315
2 1/2 RED	.0745µH	100MHz	150	TK2725-ND	5.44	4.76	2.07	1.55	E526HN-100316
3 1/2 ORG	.118µH	100MHz	170	TK2726-ND	5.44	4.76	2.07	1.55	E526HN-100317
4 1/2 YEL	.154µH	100MHz	180	TK2727-ND	5.44	4.76	2.07	1.55	E526HN-100318
5 1/2 GRN	.211µH	100MHz	190	TK2728-ND	5.44	4.76	2.07	1.55	E526HN-100319
MC122 with Case									
1 1/2 WHT	.0323µH	100MHz	80	TK2801-ND	2.96	2.59	1.13	.85	E528SNAS-100072
2 1/2 RED	.0523µH	100MHz	80	TK2802-ND	2.96	2.59	1.13	.85	E528SNAS-100073
3 1/2 ORG	.078µH	100MHz	90	TK2803-ND	2.96	2.59	1.13	.85	E528SNAS-100074
4 1/2 YEL	.108µH	100MHz	90	TK2804-ND	2.96	2.59	1.13	.85	E528SNAS-100075
5 1/2 GRN	.149µH	100MHz	90	TK2805-ND	2.96	2.59	1.13	.85	E528SNAS-100076
3 1/2 ORG	.078µH	57MHz	70	TK2806-ND	2.96	2.59	1.13	.85	E528DNAS-100077
4 1/2 YEL	.103µH	57MHz	70	TK2807-ND	2.96	2.59	1.13	.85	E528DNAS-100078
5 1/2 GRN	.132µH	57MHz	70	TK2808-ND	2.96	2.59	1.13	.85	E528DNAS-100079
6 1/2 BLU	.159µH	57MHz	70	TK2809-ND	2.96	2.59	1.13	.85	E528DNAS-100080
7 1/2 VIO	.203µH	57MHz	70	TK2810-ND	2.96	2.59	1.13	.85	E528DNAS-100081
8 1/2 WHT	.226µH	45MHz	60	TK2811-ND	2.96	2.59	1.13	.85	E528DNAS-100082
9 1/2 RED	.25µH	45MHz	60	TK2812-ND	2.96	2.59	1.13	.85	E528DNAS-100083
10 1/2 ORG	.291µH	45MHz	60	TK2813-ND	2.96	2.59	1.13	.85	E528DNAS-100084
MC122 without Case									
1 1/2 WHT	.0352µH	100MHz	90	TK2814-ND	2.96	2.59	1.13	.85	E528SN-100059
2 1/2 RED	.0604µH	100MHz	110	TK2815-ND	2.96	2.59	1.13	.85	E528SN-100060
3 1/2 ORG	.0957µH	100MHz	120	TK2816-ND	2.96	2.59	1.13	.85	E528SN-100061
4 1/2 YEL	.137µH	100MHz	120	TK2817-ND	2.96	2.59	1.13	.85	E528SN-100062
5 1/2 GRN	.195µH	100MHz	110	TK2818-ND	2.96	2.59	1.13	.85	E528SN-100063
3 1/2 ORG	.0918µH	57MHz	100	TK2819-ND	2.96	2.59	1.13	.85	E528SN-100064
4 1/2 YEL	.130µH	57MHz	100	TK2820-ND	2.96	2.59	1.13	.85	E528SN-100065
5 1/2 GRN	.177µH	57MHz	100	TK2821-ND	2.96	2.59	1.13	.85	E528SN-100066
6 1/2 BLU	.214µH	57MHz	100	TK2822-ND	2.96	2.59	1.13	.85	E528SN-100067
7 1/2 VIO	.289µH	57MHz	90	TK2823-ND	2.96	2.59	1.13	.85	E528SN-100068
9 1/2 RED	.379µH	45MHz	80	TK2825-ND	2.96	2.59	1.13	.85	E528SN-100070
10 1/2 ORG	.447µH	45MHz	70	TK2826-ND	2.96	2.59	1.13	.85	E528SN-100071
MC134 with Case									
10 1/2 BLK	.260µH	50MHz	50	TK3001-ND	4.48	3.92	1.72	1.29	E540SNA-10005
11 1/2 BRW	.294µH	50MHz	50	TK3002-ND	4.48	3.92	1.72	1.29	E540SNA-11003
12 1/2 RED	.317µH	50MHz	60	TK3003-ND	4.48	3.92	1.72	1.29	E540SNA-12003
13 1/2 ORG	.350µH	50MHz	60	TK3004-ND	4.48	3.92	1.72	1.29	E540SNA-13003
14 1/2 YEL	.383µH	50MHz	55	TK3005-ND	4.48	3.92	1.72	1.29	E540SNA-14002
15 1/2 GRN	.422µH	50MHz	80	TK3006-ND	4.48	3.92	1.72	1.29	E540SNA-15002
MC134 without Case									
10 1/2 BLK	.398µH	50MHz	80	TK3007-ND	4.48	3.92	1.72	1.29	E540SN-10004
11 1/2 BRW	.451µH	50MHz	80	TK3008-ND	4.48	3.92	1.72	1.29	E540SN-11002
12 1/2 RED	.483µH	50MHz	80	TK3009-ND	4.48	3.92	1.72	1.29	E540SN-12002
13 1/2 ORG	.545µH	50MHz	80	TK3010-ND	4.48	3.92	1.72	1.29	E540SN-13002
14 1/2 YEL	.603µH	50MHz	80	TK3011-ND	4.48	3.92	1.72	1.29	E540SN-14001
15 1/2 GRN	.685µH	50MHz	80	TK3012-ND	4.48	3.92	1.72	1.29	E540SN-15001

Turns/ Color	L Nom.	Freq.	Q.	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T & R Pricing	Toko Part No.
					1	10	100		1,500	
MC152 Ferrite Core — Surface Mount										
1 1/2 WHT	.032µH	100MHz	90	TKS2700CT-ND	3.95	34.80	310.00	TKS2700TR-ND	2370.00	E558CN-100020
3 1/2 ORG	.068µH	100MHz	110	TKS2702CT-ND	3.95	34.80	310.00	TKS2702TR-ND	2370.00	E558CN-100022
4 1/2 YEL	.090µH	100MHz	115	TKS2703CT-ND	3.95	34.80	310.00	TKS2703TR-ND	2370.00	E558CN-100023
5 1/2 WHT	.112µH	100MHz	120	TKS2704CT-ND	3.95	34.80	310.00	TKS2704TR-ND	2370.00	E558CN-100024
6 1/2 BLU	.142µH	100MHz	120	TKS2705CT-ND	3.95	34.80	310.00	TKS2705TR-ND	2370.00	E558CN-100025
MC152 Air Core — Surface Mount										
1 1/2 WHT	.029µH	100MHz	85	TKS2706CT-ND	1.48	13.04	98.78	—	—	E558HN-100096
2 1/2 VIO	.046µH	100MHz	100	TKS2707CT-ND	1.48	13.04	98.78	TKS2707TR-ND	2370.00	E558HN-100097
4 1/2 YEL	.073µH	100MHz	105	TKS2709CT-ND	1.48	13.04	98.78	TKS2709TR-ND	2370.00	E558HN-100099
5 1/2 WHT	.091µH	100MHz	120	TKS2710CT-ND	1.48	13.04	98.78	—	—	E558HN-100100
6 1/2 BLU	.111µH	100MHz	120	TKS2711CT-ND	1.48	13.04	98.78	—	—	E558HN-100101
MC152 Brass Core — Surface Mount										
2 1/2 VIO	.038µH	100MHz	63	TKS2713CT-ND	2.28	20.08	152.11	TKS2713TR-ND	2370.00	E558AN-100041
3 1/2 ORG	.048µH	100MHz	56	TKS2714CT-ND	3.95	34.80	310.00	TKS2714TR-ND	2370.00	E558AN-100042
5 1/2 WHT	.072µH	100MHz	50	TKS2716CT-ND	2.28	20.08	152.11	—	—	E558AN-100044
6 1/2 BLU	.084µH	100MHz	50	TKS2717CT-ND	2.28	20.08	152.11	—	—	E558AN-100045

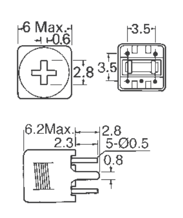
TOKO Coils

9139B-ND	Toko Coils and Filter Book	**$9.95**

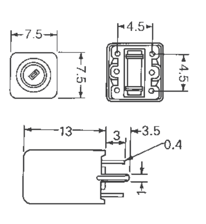
5K



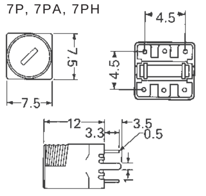
5P, 5PC, 5PH



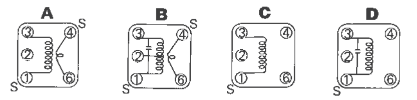
7KMM



7P, 7PA, 7PH



Diagrams



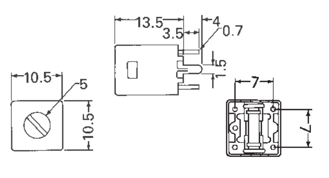
TK9001-ND	Plastic Tuning Tool (10NSF)	**$1.01**
TK9002-ND	Plastic Tuning Tool (7P, 7PA, 7PH, 10EZ, 10EZC, 10EZH, 10EZHC, 10PA)	**$1.18**
TK9003-ND	Plastic Tuning Tool (7KMM, 10K, 10KC, 12VXA)	**$.35**
TK9990-ND	Ceramic Tuning Driver (5K) (Requires Holder TK9999-ND, below)	**$41.66**
TK9991-ND	Ceramic Tuning Driver (7KMM, 10K, 10KC, 12VXA) Requires Holder TK9999-ND, below)	**$23.71**
TK9998-ND	Ceramic Tuning Driver (5P, 5PC, 5PH) (Requires Holder TK9999-ND, below)	**$54.46**
TK9999-ND	Ceramic Driver Holder	**$4.16**

Dia-gram	L Nom.	Freq.	Q.	Digi-Key Part No.	Pricing 1	10	100	500	Toko Part No.
				5K Type					
C	.08µH	75.0MHz	45	TK5001-ND*	4.85	41.23	325.80	974.50	294SN-T1008Z
	.10µH	75.0MHz	45	TK5002-ND*	4.85	41.23	325.80	974.50	294SN-T1009Z
	.15µH	75.0MHz	45	TK5003-ND*	4.85	41.23	325.80	974.50	294SN-T1010Z
	.22µH	45.0MHz	45	TK5004-ND*	4.85	41.23	325.80	974.50	294SN-T1011Z
	.33µH	45.0MHz	45	TK5005-ND*	4.85	41.23	325.80	974.50	294SN-T1012Z
	.47µH	45.0MHz	45	TK5006-ND*	4.85	41.23	325.80	974.50	294SN-T1013Z
	.68µH	45.0MHz	45	TK5007-ND*	4.85	41.23	325.80	974.50	294SN-T1014Z
	1.00µH	30.0MHz	45	TK5008-ND*	4.85	41.23	325.80	974.50	294SN-T1015Z
				5P Type					
C	33µH	2.52MHz	40	TK5110-ND*	5.14	44.28	350.00	1040.00	5PNR-T1005Z
	39µH	2.52MHz	40	TK5111-ND*	5.14	44.28	350.00	1040.00	5PNR-T1006Z
	47µH	2.52MHz	40	TK5112-ND*	5.14	44.28	350.00	1040.00	5PNR-T1007Z
	68µH	2.52MHz	40	TK5114-ND*	5.14	44.28	350.00	1040.00	5PNR-T1009Z
	82µH	2.52MHz	40	TK5115-ND*	5.14	44.28	350.00	1040.00	5PNR-T1010Z
	100µH	.796MHz	40	TK5116-ND*	5.14	44.28	350.00	1040.00	5PNR-T1011Z
	120µH	.796MHz	40	TK5117-ND*	5.14	44.28	350.00	1040.00	5PNR-T1012Z
	150µH	.796MHz	40	TK5118-ND*	5.14	44.28	350.00	1040.00	5PNR-T1013Z
	270µH	.796MHz	40	TK5121-ND*	5.14	44.28	350.00	1040.00	5PNR-T1016Z
	390µH	.796MHz	40	TK5123-ND*	5.14	44.28	350.00	1040.00	5PNR-T1018Z
	470µH	.796MHz	40	TK5124-ND*	5.14	44.28	350.00	1040.00	5PNR-T1019Z
	560µH	.796MHz	40	TK5125-ND*	5.14	44.28	350.00	1040.00	5PNR-T1020Z
	680µH	.796MHz	40	TK5126-ND*	5.14	44.28	350.00	1040.00	5PNR-T1021Z
				5PC Type					
D	680µH	455KHz	50	TK5128-ND	5.14	44.28	287.00	855.00	5PLC-1521Z
	680µH	455KHz	85	TK5129-ND	5.14	44.28	287.00	855.00	5PLC-1055Z
				5PH Type					
C	1.0µH	7.96MHz	55	TK5130-ND*	4.21	36.23	287.00	855.00	332PN-T1012Z
	1.2µH	7.96MHz	55	TK5131-ND*	4.21	36.23	287.00	855.00	332PN-T1013Z
	1.5µH	7.96MHz	55	TK5132-ND*	4.21	36.23	287.00	855.00	332PN-T1014Z
	1.8µH	7.96MHz	55	TK5133-ND*	4.21	36.23	287.00	855.00	332PN-T1015Z
	2.2µH	7.96MHz	55	TK5134-ND*	4.21	36.23	287.00	855.00	332PN-T1016Z
	2.7µH	7.96MHz	55	TK5135-ND*	4.21	36.23	287.00	855.00	332PN-T1017Z
	3.3µH	7.96MHz	55	TK5136-ND*	4.21	36.23	287.00	855.00	332PN-T1018Z
	3.9µH	7.96MHz	55	TK5137-ND*	4.21	36.23	287.00	855.00	332PN-T1019Z
	4.7µH	7.96MHz	55	TK5138-ND*	4.21	36.23	287.00	855.00	332PN-T1020Z
	5.6µH	7.96MHz	55	TK5139-ND*	4.21	36.23	287.00	855.00	332PN-T1021Z
	6.8µH	7.96MHz	55	TK5140-ND*	4.21	36.23	287.00	855.00	332PN-T1022Z
	8.2µH	7.96MHz	55	TK5141-ND*	4.21	36.23	287.00	855.00	332PN-T1023Z
	10.0µH	2.52MHz	55	TK5142-ND*	4.21	36.23	287.00	855.00	332PN-T1024Z
	12.0µH	2.52MHz	55	TK5143-ND*	4.21	36.23	287.00	855.00	332PN-T1025Z
	15.0µH	2.52MHz	55	TK5144-ND*	4.21	36.23	287.00	855.00	332PN-T1026Z
	18.0µH	2.52MHz	55	TK5145-ND*	4.21	36.23	287.00	855.00	332PN-T1027Z
	22.0µH	2.52MHz	55	TK5146-ND*	4.21	36.23	287.00	855.00	332PN-T1028Z
***TK4-KIT-ND**	5mm Standard Coil Kit (2 each of values denoted above)								**$63.00**
				7KMM Type					
C	0.1µH	50.0MHz	35	TK3101-ND	5.61	48.30	383.00	1140.00	292KNAS-T1028Z
	0.15µH	50.0MHz	35	TK3102-ND	5.61	48.30	383.00	1140.00	292KNAS-T1030Z
	0.22µH	50.0MHz	50	TK3103-ND	5.61	48.30	383.00	1140.00	292KNAS-T1032Z
	0.33µH	50.0MHz	50	TK3104-ND	5.61	48.30	383.00	1140.00	292KNAS-T1034Z
	0.47µH	50.0MHz	50	TK3105-ND	5.61	48.30	383.00	1140.00	292KNAS-T1036Z
C	0.68µH	50.0MHz	50	TK3106-ND	5.61	48.30	383.00	1140.00	292KNAS-T1038Z
	1.0µH	7.96MHz	40	TK3107-ND	5.61	48.30	383.00	1140.00	292CNS-T1040Z
	1.5µH	7.96MHz	40	TK3108-ND	5.61	48.30	383.00	1140.00	292CNS-T1042Z
	2.2µH	7.96MHz	40	TK3109-ND	5.61	48.30	383.00	1140.00	292CNS-T1044Z
	3.3µH	7.96MHz	40	TK3110-ND	5.61	48.30	383.00	1140.00	292CNS-T1046Z
	4.7µH	7.96MHz	40	TK3111-ND	5.61	48.30	383.00	1140.00	292CNS-T1048Z
	6.8µH	7.96MHz	40	TK3112-ND	5.61	48.30	383.00	1140.00	292CNS-T1050Z
	10.0µH	2.52MHz	35	TK3113-ND	5.61	50.40	383.00	1140.00	F292CNS-T1052Z
	15.0µH	2.52MHz	35	TK3114-ND	5.61	50.40	383.00	1140.00	F292CNS-T1054Z
	6.6µH	4.0MHz	85	TK3115-ND	2.10	18.90	168.00	777.00	MF292CNS-T1082Z
	0.12µH	50.0MHz	35	TK3116-ND	5.61	48.30	383.00	1140.00	292KNAS-T1029Z
	0.18µH	50.0MHz	35	TK3117-ND	5.61	48.30	383.00	1140.00	292KNAS-T1031Z
	0.27µH	50.0MHz	50	TK3118-ND	5.61	48.30	383.00	1140.00	292KNAS-T1033Z
	0.39µH	50.0MHz	50	TK3119-ND	5.61	48.30	383.00	1140.00	292KNAS-T1035Z
	0.56µH	50.0MHz	50	TK3120-ND	5.61	48.30	383.00	1140.00	292KNAS-T1037Z
	0.82µH	50.0MHz	50	TK3121-ND	5.61	48.30	383.00	1140.00	292KNAS-T1039Z
	1.2µH	7.96MHz	40	TK3122-ND	5.61	48.30	383.00	1140.00	292CNS-T1041Z
	1.8µH	7.96MHz	40	TK3123-ND	5.61	48.30	383.00	1140.00	292CNS-T1043Z
	2.7µH	7.96MHz	40	TK3124-ND	5.61	48.30	383.00	1140.00	292CNS-T1045Z
	3.9µH	7.96MHz	40	TK3125-ND	5.61	48.30	383.00	1140.00	292CNS-T1047Z
	5.6µH	7.96MHz	40	TK3126-ND	5.61	48.30	383.00	1140.00	292CNS-T1049Z
	8.2µH	7.96MHz	40	TK3127-ND	5.61	48.30	383.00	1140.00	292CNS-T1051Z
	12.0µH	2.52MHz	35	TK3128-ND	5.61	50.40	383.00	1140.00	F292CNS-T1053Z
	22.0µH	2.52MHz	35	TK3130-ND	5.61	50.40	383.00	1140.00	F292CNS-T1056Z
	33.0µH	2.52MHz	35	TK3132-ND	5.61	50.40	383.00	1140.00	F292CNS-T1058Z
	47.0µH	2.52MHz	35	TK3134-ND	5.61	50.40	383.00	1140.00	F292CNS-T1060Z
	56.0µH	2.52MHz	35	TK3135-ND	2.10	18.90	168.00	777.00	F292CNS-T1061Z
	68.0µH	2.52MHz	35	TK3136-ND	2.10	18.90	168.00	777.00	F292CNS-T1062Z
	82.0µH	2.52MHz	35	TK3137-ND	2.10	18.90	168.00	777.00	F292CNS-T1063Z
				7KMM High Frequency Type					
C	0.08µH	80.0MHz	50	TK3138-ND	5.61	48.30	383.00	1140.00	292SNS-T1365Z
	0.10µH	80.0MHz	50	TK3139-ND	5.61	48.30	383.00	1140.00	292SNS-T1366Z
	0.15µH	80.0MHz	60	TK3140-ND	5.61	48.30	383.00	1140.00	292SNS-T1367Z
	0.22µH	80.0MHz	60	TK3141-ND	5.61	48.30	383.00	1140.00	292SNS-T1368Z
	0.33µH	80.0MHz	60	TK3142-ND	5.61	48.30	383.00	1140.00	292SNS-T1369Z
	0.47µH	50.0MHz	60	TK3143-ND	5.61	48.30	383.00	1140.00	292SNS-T1370Z
	0.68µH	50.0MHz	60	TK3144-ND	5.61	48.30	383.00	1140.00	292SNS-T1371Z
	1.00µH	7.96MHz	40	TK3145-ND	5.61	48.30	383.00	1140.00	292KNS-T1372Z
	1.50µH	7.96MHz	40	TK3146-ND	5.61	48.30	383.00	1140.00	292KNS-T1373Z
	2.20µH	7.96MHz	40	TK3147-ND	5.61	48.30	383.00	1140.00	292KNS-T1374Z
	3.30µH	7.96MHz	40	TK3148-ND	5.61	48.30	383.00	1140.00	292KNS-T1375Z
	4.70µH	7.96MHz	40	TK3149-ND	5.61	48.30	383.00	1140.00	292KNS-T1376Z
	10.0µH	7.96MHz	40	TK3152-ND	5.61	48.30	383.00	1140.00	292KNS-T1378Z
				7P Type					
C	100µH	796KHz	80	TK2417-ND	4.20	37.80	287.00	850.00	A7BRS-T1040Z
	120µH	796KHz	80	TK2418-ND	4.20	37.80	287.00	850.00	A7BRS-T1041Z
	180µH	796KHz	80	TK2420-ND	4.20	37.80	287.00	850.00	A7BRS-T1043Z
	220µH	796KHz	80	TK2421-ND	4.20	37.80	287.00	850.00	A7BRS-T104
	270µH	796KHz	80	TK2422-ND	4.20	37.80	287.00	850.00	A7BRS-T1045Z
C	330µH	796KHz	80	TK2423-ND	4.20	37.80	287.00	850.00	A7BRS-T1046Z
B	679µH	455KHz	70	TK2501-ND	4.20	37.80	287.00	850.00	A7LC-T1153N
D	680µH	455KHz	70	TK2502-ND	4.20	37.80	287.00	850.00	A7LC-T1001Z
				7PA Type					
C	1.0mH	252KHz	60	TK3201-ND	4.74	40.83	323.00	960.00	126ANS-T1094Z
	1.2mH	252KHz	60	TK3202-ND	4.74	40.83	323.00	960.00	126ANS-T1095Z
	1.5mH	252KHz	60	TK3203-ND	4.74	40.83	323.00	960.00	126ANS-T1096Z
	1.8mH	252KHz	60	TK3204-ND	4.74	40.83	323.00	960.00	126ANS-T1097Z
	2.2mH	252KHz	60	TK3205-ND	4.74	40.83	323.00	960.00	126ANS-T1098Z
	2.7mH	252KHz	60	TK3206-ND	4.74	40.83	323.00	960.00	126ANS-T1099Z
	3.3mH	252KHz	60	TK3207-ND	4.74	40.83	323.00	960.00	126ANS-T1100Z
	4.7mH	252KHz	60	TK3209-ND	4.74	40.83	323.00	960.00	126ANS-T1102Z
	5.6mH	252KHz	60	TK3210-ND	4.74	40.83	323.00	960.00	126ANS-T1103Z
	6.8mH	252KHz	60	TK3211-ND	4.74	40.83	323.00	960.00	126ANS-T1104Z
	8.2mH	252KHz	60	TK3212-ND	4.74	40.83	323.00	960.00	126ANS-T1105Z
	10.0mH	79.6KHz	60	TK3213-ND	4.74	40.83	323.00	960.00	126ANS-T1106Z
	12.0mH	79.6KHz	60	TK3214-ND	4.74	40.83	323.00	960.00	126ANS-T1107Z
	15.0mH	79.6KHz	60	TK3215-ND	4.74	40.83	323.00	960.00	126ANS-T1108Z
	18.0mH	79.6KHz	60	TK3216-ND	4.74	40.83	323.00	960.00	126ANS-T1109Z
	22.0mH	79.6KHz	60	TK3217-ND	4.74	40.83	323.00	960.00	126ANS-T1110Z
	5mH	252KHz	70	TK3218-ND	4.74	40.83	323.00	960.00	126LNS-6285Z
				7PH Type					
C	4.7µH	7.96MHz	80	TK2401-ND	4.31	37.38	294.00	875.00	A119ANS-T1029Z
	5.6µH	7.96MHz	80	TK2402-ND	4.31	37.38	294.00	875.00	A119ANS-T1030Z
	6.8µH	7.96MHz	80	TK2403-ND	4.31	37.38	294.00	875.00	A119ANS-T1031Z
	8.2µH	7.96MHz	80	TK2404-ND	4.31	37.38	294.00	875.00	A119ANS-T1032Z
	10.0µH	2.52MHz	80	TK2405-ND	4.31	37.38	294.00	875.00	A119ANS-T1033Z
	12.0µH	2.52MHz	80	TK2406-ND	4.31	37.38	294.00	875.00	A119ANS-T1034Z
	15.0µH	2.52MHz	80	TK2407-ND	4.31	37.38	294.00	875.00	A119ANS-T1035Z
	18.0µH	2.52MHz	80	TK2408-ND	4.31	37.38	294.00	875.00	A119ANS-T1036Z
	22.0µH	2.52MHz	80	TK2409-ND	4.31	37.38	294.00	875.00	A119ANS-T1037Z
	27.0µH	2.52MHz	80	TK2410-ND	4.31	37.38	294.00	875.00	A119ANS-T1038Z
	33.0µH	2.52MHz	80	TK2411-ND	4.31	37.38	294.00	875.00	A119ANS-T1039Z
	39.0µH	2.52MHz	80	TK2412-ND	4.31	37.38	294.00	875.00	A119ANS-T1040Z
	47.0µH	2.52MHz	80	TK2413-ND	4.31	37.38	294.00	875.00	A119ANS-T1041Z
	56.0µH	2.52MHz	80	TK2414-ND	4.31	37.38	294.00	875.00	A119ANS-T1042Z
	68.0µH	2.52MHz	80	TK2415-ND	4.31	37.38	294.00	875.00	A119ANS-T1043Z
C	82.0µH	2.52MHz	80	TK2416-ND	4.31	37.38	294.00	875.00	A119ANS-T1044Z
C	10.7µH	2.52MHz	95	TK2427-ND	4.31	37.38	294.00	875.00	A119ANS-17152Z
—	10.7µH	2.52MHz	90	TK2428-ND	1.63	14.63	130.00	601.25	A119ANS-17153Y
C	11.8µH	2.52MHz	114	TK2429-ND	1.63	14.63	130.00	601.25	A119AN-T1018Z
—	10.9µH	4.4MHz	80	TK2430-ND	1.63	14.63	130.00	601.25	119LNS-A3753GO
A	12.5µH	4.4MHz	90	TK2431-ND	4.31	37.38	294.00	875.00	119LNS-A4451DY

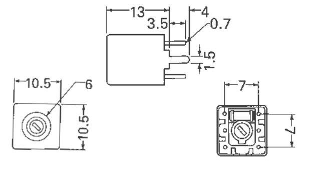
TOKO Coils

9139B-ND	Toko Coils & Filter Book	**$9.95**

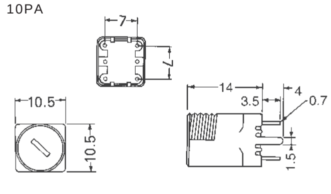
10EZ, 10EZC, 10EZH, 10EZHC



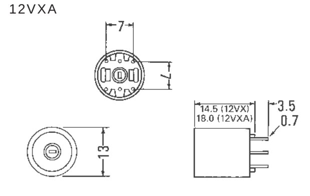
10K, 10KC

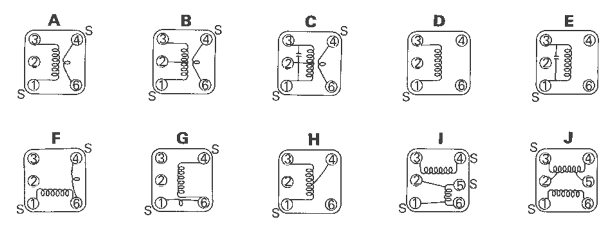


10PA



12VXA





TK9001-ND	Plastic Tuning Tool (10NSF)	**$1.01**
TK9002-ND	Plastic Tuning Tool (7P, 7PA, 7PH, 10EZ, 10EZC, 10EZH, 10EZHC, 10PA)	**$1.18**
TK9003-ND	Plastic Tuning Tool (7KMM, 10K, 10KC, 12VXA)	**$.35**
TK9990-ND	Ceramic Tuning Driver (5K) (Requires Holder TK9999-ND, below)	**$41.66**
TK9991-ND	Ceramic Tuning Driver (7KMM, 10K, 10KC, 12VXA) Requires Holder TK9999-ND, below)	**$23.71**
TK9998-ND	Ceramic Tuning Driver (5P, 5PC, 5PH) (Requires Holder TK9999-ND, below)	**$54.46**
TK9999-ND	Ceramic Driver Holder	**$4.16**

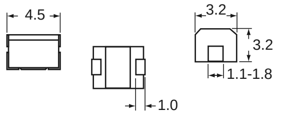
Dia-gram	L Nom.	Freq.	Q.	Digi-Key Part No.	Pricing 1	10	100	500	Toko Part No.
10EZ Type									
B	.63mH	200KHz	95	TK1201-ND	3.46	31.20	236.00	700.00	RAN-10A6729EK
B	.63mH	200KHz	95	TK1202-ND	3.46	31.20	236.00	700.00	RAN-10A6845EK
D	100µH	796KHz	100	TK1219-ND	3.46	31.20	236.00	700.00	RWRS-T1015Z
D	120µH	796KHz	100	TK1220-ND	3.46	31.20	236.00	700.00	RWRS-T1016Z
D	150µH	796KHz	100	TK1221-ND	3.46	31.20	236.00	700.00	RWRS-T1017Z
D	180µH	796KHz	100	TK1222-ND	3.46	31.20	236.00	700.00	RWRS-T1018Z
	220µH	796KHz	100	TK1223-ND	3.46	31.20	236.00	700.00	RWRS-T1019Z
	270µH	796KHz	100	TK1224-ND	3.46	31.20	236.00	700.00	RWRS-T1020Z
	470µH	796KHz	100	TK1227-ND	3.46	31.20	236.00	700.00	RWRS-T1023Z
	560µH	796KHz	100	TK1228-ND	3.46	31.20	236.00	700.00	RWRS-T1024Z
D	680µH	796KHz	100	TK1229-ND	3.46	31.20	236.00	700.00	RWRS-T1025Z
	820µH	796KHz	100	TK1230-ND	3.46	31.20	236.00	700.00	RWRS-T1026Z
	1000µH	252KHz	50	TK1231-ND	3.46	31.20	236.00	700.00	RUNS-T1027Z
	1200µH	252KHz	50	TK1232-ND	3.46	31.20	236.00	700.00	RUNS-T1028Z
10EZC Type									
C	.64mH	455KHz	110	TK1301-ND	3.46	31.20	236.00	700.00	RMC-202313NO
E	.64mH	455KHz	110	TK1302-ND	3.46	31.20	236.00	700.00	RMC-2A6597HM
E	.64mH	455KHz	110	TK1303-ND	3.46	31.20	236.00	700.00	RMC-2A7287HM
C	.64mH	455KHz	110	TK1304-ND	3.46	31.20	236.00	700.00	RMC-402503NO
	.64mH	455KHz	110	TK1306-ND	1.30	11.70	104.00	481.00	RMC-502503NO
10EZH Type									
D	4.7µH	7.96MHz	100	TK1203-ND	3.55	30.48	242.00	720.00	154ANS-T1005Z
	5.6µH	7.96MHz	100	TK1204-ND	3.55	30.48	242.00	720.00	154ANS-T1006Z
	6.8µH	7.96MHz	100	TK1205-ND	3.55	30.48	242.00	720.00	154ANS-T1007Z
D	10µH	2.52MHz	60	TK1207-ND	3.55	30.48	242.00	720.00	154ANS-T1009Z
	12µH	2.52MHz	60	TK1208-ND	3.55	30.48	242.00	720.00	154ANS-T1010Z
	18.0µH	2.52MHz	60	TK1210-ND	3.55	30.48	242.00	720.00	154ANS-T1012Z
	22.0µH	2.52MHz	60	TK1211-ND	3.55	30.48	242.00	720.00	154ANS-T1013Z
	27.0µH	2.52MHz	60	TK1212-ND	3.55	30.48	242.00	720.00	154ANS-T1014Z
D	33.0µH	2.52MHz	60	TK1213-ND	3.55	30.48	242.00	720.00	154ANS-T1015Z
	39.0µH	2.52MHz	60	TK1214-ND	3.55	30.48	242.00	720.00	154ANS-T1016Z
	47.0µH	2.52MHz	60	TK1215-ND	3.55	30.48	242.00	720.00	154ANS-T1017Z
	56.0µH	2.52MHz	60	TK1216-ND	3.55	30.48	242.00	720.00	154ANS-T1018Z
	68.0µH	2.52MHz	60	TK1217-ND	3.55	30.48	242.00	720.00	154ANS-T1019Z
D	82.0µH	2.52MHz	60	TK1218-ND	3.46	29.90	236.00	700.00	154ANS-T1020Z
10EZHC Type									
C	8.2µH	10.7MHz	110	TK1237-ND	3.55	30.48	242.00	720.00	154AC-470072NO
	27.0µH	10.7MHz	110	TK1238-ND	3.55	30.48	242.00	720.00	154AC-7A5681EK
	68.0µH	10.7MHz	60	TK1240-ND	3.55	30.48	242.00	720.00	154PC-470033NO
10K Type									
D	0.08µH	75MHz	50	TK1401-ND	4.12	37.20	281.00	835.00	BTKENS-T1043Z
D	0.10µH	75MHz	60	TK1402-ND	4.12	37.20	281.00	835.00	BTKENS-T1044Z
A	0.12µH	72MHz	80	TK1403-ND	4.12	37.20	281.00	835.00	BKEN-K4857DZ
D	0.15µH	75MHz	60	TK1404-ND	4.12	37.20	281.00	835.00	BTKENS-T1045Z
D	0.22µH	75MHz	60	TK1405-ND	4.12	37.20	281.00	835.00	BTKENS-T1046Z
D	0.33µH	45MHz	60	TK1406-ND	4.12	37.20	281.00	835.00	BTKXNS-T1047Z
A	0.41µH	49MHz	75	TK1407-ND	4.12	37.20	281.00	835.00	KEN-K4028DZ
D	0.47µH	45MHz	70	TK1408-ND	4.12	37.20	281.00	835.00	BTKXNS-T1048Z
D	0.68µH	45MHz	70	TK1409-ND	4.12	37.20	281.00	835.00	BTKXNS-T1049Z
A	0.79µH	27MHz	55	TK1410-ND	4.12	37.20	281.00	835.00	KXNA-K4434DZ
D	1.0µH	25.2MHz	80	TK1411-ND	4.12	37.20	281.00	835.00	BTKXNS-T1050Z
	1.5µH	7.96MHz	60	TK1412-ND	4.12	37.20	281.00	835.00	BTKANS-9449HM
	2.2µH	7.96MHz	60	TK1413-ND	4.12	37.20	281.00	835.00	BTKANS-9447HM
	3.3µH	7.96MHz	70	TK1414-ND	4.12	37.20	281.00	835.00	BTKANS-9445HM
	4.7µH	7.96MHz	70	TK1415-ND	4.12	37.20	281.00	835.00	BTKANS-9443HM
D	6.8µH	7.96MHz	70	TK1416-ND	4.12	37.20	281.00	835.00	BTKANS-9441HM
D	10µH	7.96MHz	70	TK1417-ND	4.12	37.20	281.00	835.00	BTKANS-9439HM
F	0.16µH	27MHz	65	TK1418-ND	1.55	13.95	124.00	573.50	KXN-K4636BJF
G	0.34µH	49MHz	95	TK1419-ND	4.12	37.20	281.00	835.00	BKEN-K4635BJE
H	1.0µH	7.96MHz	60	TK1420-ND	4.12	37.20	281.00	835.00	BKAN-K5552AXX
H	66µH	2.52MHz	60	TK1421-ND	4.12	37.20	281.00	835.00	BKANS-K4087HUx
—	2.2µH	7.96MHz	54	TK1422-ND	4.12	37.20	281.00	835.00	TKANAS-T1390ADP
10KC Type									
E	2.7µH	10.7MHz	100	TK1501-ND	4.12	37.20	281.00	835.00	KACS-K586HM
10PA Type									
D	1.35mH	200KHz	70	TK1701-ND	3.75	33.60	255.00	760.00	CAN-1A901HM
	15.8mH	40KHz	58	TK1702-ND	3.75	33.60	255.00	760.00	CLN-2A900HM
	1.0mH	252KHz	80	TK1703-ND	3.75	33.60	255.00	760.00	CLNS-T1018Z
	1.2mH	252KHz	80	TK1704-ND	3.75	33.60	255.00	760.00	CLNS-T1019Z
	1.5mH	252KHz	80	TK1705-ND	3.75	33.60	255.00	760.00	CLNS-T1020Z
D	1.8mH	252KHz	80	TK1706-ND	3.75	33.60	255.00	760.00	CLNS-T1021Z
	2.2mH	252KHz	80	TK1707-ND	3.75	33.60	255.00	760.00	CLNS-T1022Z
	2.7mH	252KHz	80	TK1708-ND	3.75	33.60	255.00	760.00	CLNS-T1023Z
	3.3mH	252KHz	80	TK1709-ND	3.75	33.60	255.00	760.00	CLNS-T1024Z
	3.9mH	252KHz	80	TK1710-ND	3.75	33.60	255.00	760.00	CLNS-T1025Z
D	4.7mH	252KHz	80	TK1711-ND	3.75	33.60	255.00	760.00	CLNS-T1026Z
	5.6mH	252KHz	80	TK1712-ND	3.75	33.60	255.00	760.00	CLNS-T1027Z
	6.8mH	252KHz	80	TK1713-ND	3.75	33.60	255.00	760.00	CLNS-T1028Z
	8.2mH	252KHz	80	TK1714-ND	3.75	33.60	255.00	760.00	CLNS-T1029Z
	10.0mH	79.6KHz	70	TK1715-ND	3.75	33.60	255.00	760.00	CLNS-T1030Z
D	12.0mH	79.6KHz	70	TK1716-ND	3.75	33.60	255.00	760.00	CLNS-T1031Z
	15.0mH	79.6KHz	70	TK1717-ND	3.75	33.60	255.00	760.00	CLNS-T1032Z
	18.0mH	79.6KHz	70	TK1718-ND	3.75	33.60	255.00	760.00	CLNS-T1033Z
	22.0mH	79.6KHz	70	TK1719-ND	3.75	33.60	255.00	760.00	CLNS-T1034Z
	27.0mH	79.6KHz	70	TK1720-ND	3.75	33.60	255.00	760.00	CLNS-T1035Z
D	33.0mH	79.6KHz	70	TK1721-ND	3.75	33.60	255.00	760.00	CLNS-T1036Z
	39.0mH	79.6KHz	70	TK1722-ND	3.75	33.60	255.00	760.00	CLNS-T1037Z
	47.0mH	79.6KHz	70	TK1723-ND	3.75	33.60	255.00	760.00	CLNS-T1038Z
	56.0mH	79.6KHz	70	TK1724-ND	3.75	33.60	255.00	760.00	CLNS-T1039Z
	800µH	55KHz	50	TK1725-ND	3.75	33.60	255.00	760.00	CLN-T1069Z
12VXA Type									
I	49.1µH	125KHz	25	TK1901-ND	4.70	40.02	316.30	945.50	707VX-A042YUK
I	101µH	50KHz	25	TK1902-ND	4.70	40.02	316.30	945.50	707VX-A043YUK
B	217µH	100KHz	20	TK1903-ND	4.70	40.02	316.30	945.50	707VX-T1002N
A	1.0mH	252KHz	25	TK2001-ND	4.70	40.02	316.30	945.50	707VX-A062AO
J	.419mH	20KHz	30	TK2002-ND	4.70	40.02	316.30	945.50	707VX-A055YSU

J.W.Miller
MAGNETICS

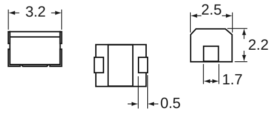
Surface Mount Chip Inductors

PM1812 Series and PM1210 Series

PM1812 Series



PM1210 Series



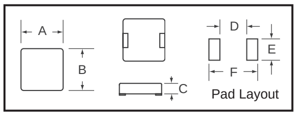
L (µH) ±10%	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	I,dc (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		J.W. Miller Part No.
							1	10	100		Size	Price	
PM1812 Series 10%													
0.10	28.00	25.20	300.00	0.18	800.00	M6032CT-ND	.70	.63	.53	M6032TR-ND	500	105.00	PM1812-R10K
0.12	30.00	25.20	280.00	0.20	770.00	M6033CT-ND	.70	.63	.53	M6033TR-ND	500	105.00	PM1812-R12K
0.15	30.00	25.20	250.00	0.22	730.00	M6034CT-ND	.70	.63	.53	M6034TR-ND	500	105.00	PM1812-R15K
0.18	30.00	25.20	220.00	0.24	700.00	M6035CT-ND	.70	.63	.53	M6035TR-ND	500	105.00	PM1812-R18K
0.22	30.00	25.20	200.00	0.25	665.00	M6036CT-ND	.70	.63	.53	M6036TR-ND	500	105.00	PM1812-R22K
0.27	30.00	25.20	180.00	0.26	635.00	M6037CT-ND	.70	.63	.53	M6037TR-ND	500	105.00	PM1812-R27K
0.33	30.00	25.20	165.00	0.28	605.00	M6038CT-ND	.70	.63	.53	M6038TR-ND	500	105.00	PM1812-R33K
0.39	30.00	25.20	150.00	0.30	575.00	M6039CT-ND	.70	.63	.53	M6039TR-ND	500	105.00	PM1812-R39K
0.47	30.00	25.20	145.00	0.32	545.00	M6040CT-ND	.70	.63	.53	M6040TR-ND	500	105.00	PM1812-R47K
0.56	30.00	25.20	140.00	0.36	520.00	M6041CT-ND	.70	.63	.53	M6041TR-ND	500	140.00	PM1812-R56K
0.68	30.00	25.20	135.00	0.40	500.00	M6042CT-ND	.70	.63	.53	M6042TR-ND	500	105.00	PM1812-R68K
0.82	30.00	25.20	130.00	0.45	475.00	M6043CT-ND	.70	.63	.53	M6043TR-ND	500	105.00	PM1812-R82K
PM1812 Series 5%													
1.00	50.00	7.96	100.00	0.50	450.00	M6044CT-ND	.70	.63	.53	M6044TR-ND	500	105.00	PM1812-1R0J
1.20	50.00	7.96	80.00	0.55	430.00	M6045CT-ND	.70	.63	.53	M6045TR-ND	500	105.00	PM1812-1R2J
1.50	50.00	7.96	70.00	0.60	410.00	M6046CT-ND	.70	.63	.53	M6046TR-ND	500	105.00	PM1812-1R5J
1.80	50.00	7.96	60.00	0.65	390.00	M6047CT-ND	.70	.63	.53	M6047TR-ND	500	105.00	PM1812-1R8J
2.20	50.00	7.96	55.00	0.70	380.00	M6048CT-ND	.70	.63	.53	M6048TR-ND	500	105.00	PM1812-2R2J
2.70	50.00	7.96	50.00	0.75	370.00	M6049CT-ND	.70	.63	.53	M6049TR-ND	500	105.00	PM1812-2R7J
3.30	50.00	7.96	45.00	0.80	355.00	M6050CT-ND	.70	.63	.53	M6050TR-ND	500	105.00	PM1812-3R3J
3.90	50.00	7.96	40.00	0.90	330.00	M6051CT-ND	.70	.63	.53	M6051TR-ND	500	105.00	PM1812-3R9J
4.70	50.00	7.96	35.00	1.00	315.00	M6052CT-ND	.70	.63	.53	M6052TR-ND	500	105.00	PM1812-4R7J
5.60	50.00	7.96	33.00	1.10	300.00	M6053CT-ND	.70	.63	.53	M6053TR-ND	500	105.00	PM1812-5R6J
6.80	50.00	7.96	27.00	1.20	285.00	M6054CT-ND	.70	.63	.53	M6054TR-ND	500	105.00	PM1812-6R8J
8.20	50.00	7.96	25.00	1.40	270.00	M6055CT-ND	.70	.63	.53	M6055TR-ND	500	140.00	PM1812-8R2J
10.00	50.00	2.52	20.00	1.60	250.00	M6056CT-ND	.70	.63	.53	M6056TR-ND	500	105.00	PM1812-100J
12.00	50.00	2.52	18.00	2.00	225.00	M6057CT-ND	.70	.63	.53	M6057TR-ND	500	105.00	PM1812-120J
15.00	50.00	2.52	17.00	2.50	200.00	M6058CT-ND	.70	.63	.53	M6058TR-ND	500	105.00	PM1812-150J
18.00	50.00	2.52	15.00	2.80	190.00	M6059CT-ND	.70	.63	.53	M6059TR-ND	500	105.00	PM1812-180J
22.00	50.00	2.52	13.00	3.20	180.00	M6060CT-ND	.70	.63	.53	M6060TR-ND	500	105.00	PM1812-220J
27.00	50.00	2.52	12.00	3.60	170.00	M6061CT-ND	.70	.63	.53	M6061TR-ND	500	105.00	PM1812-270J
33.00	50.00	2.52	11.00	4.00	160.00	M6062CT-ND	.70	.63	.53	M6062TR-ND	500	105.00	PM1812-330J
39.00	50.00	2.52	10.00	4.50	150.00	M6063CT-ND	.70	.63	.53	M6063TR-ND	500	140.00	PM1812-390J
47.00	50.00	2.52	10.00	5.00	140.00	M6064CT-ND	.70	.63	.53	M6064TR-ND	500	105.00	PM1812-470J
56.00	50.00	2.52	9.00	5.50	135.00	M6065CT-ND	.70	.63	.53	M6065TR-ND	500	105.00	PM1812-560J
68.00	50.00	2.52	9.00	6.00	130.00	M6066CT-ND	.70	.63	.53	M6066TR-ND	500	105.00	PM1812-680J
82.00	50.00	2.52	8.00	7.00	120.00	M6067CT-ND	.70	.63	.53	M6067TR-ND	500	105.00	PM1812-820J
100.00	40.00	0.796	7.00	8.00	110.00	M6068CT-ND	.70	.63	.53	M6068TR-ND	500	105.00	PM1812-101J
120.00	40.00	0.796	6.00	8.00	110.00	M6069CT-ND	.70	.63	.53	M6069TR-ND	500	105.00	PM1812-121J
150.00	40.00	0.796	5.00	9.00	105.00	M6070CT-ND	.70	.63	.53	M6070TR-ND	500	105.00	PM1812-151J
180.00	40.00	0.796	5.00	9.50	102.00	M6071CT-ND	.70	.63	.53	M6071TR-ND	500	105.00	PM1812-181J
220.00	40.00	0.796	4.00	10.00	100.00	M6072CT-ND	.70	.63	.53	M6072TR-ND	500	105.00	PM1812-221J
270.00	30.00	0.796	3.00	12.00	92.00	M6073CT-ND	.70	.63	.53	M6073TR-ND	500	105.00	PM1812-271J
330.00	30.00	0.796	3.00	14.00	85.00	M6074CT-ND	.70	.63	.53	M6074TR-ND	500	105.00	PM1812-331J
390.00	30.00	0.796	3.00	18.00	80.00	M6075CT-ND	.70	.63	.53	M6075TR-ND	500	105.00	PM1812-391J
470.00	30.00	0.796	3.00	26.00	62.00	M6076CT-ND	.70	.63	.53	M6076TR-ND	500	105.00	PM1812-471J
560.00	30.00	0.796	2.00	30.00	50.00	M6077CT-ND	.70	.63	.53	M6077TR-ND	500	105.00	PM1812-561J
680.00	30.00	0.796	2.00	30.00	50.00	M6078CT-ND	.70	.63	.53	M6078TR-ND	500	105.00	PM1812-681J
820.00	30.00	0.796	2.00	35.00	30.00	M6079CT-ND	.70	.63	.53	M6079TR-ND	500	105.00	PM1812-821J
1000.00	30.00	0.796	2.00	40.00	30.00	M6080CT-ND	.70	.63	.53	M6080TR-ND	500	105.00	PM1812-102J
PM1210 Series 10%													
0.01	15.00	100.00	2500.00	0.13	450.00	M6081CT-ND	.67	.61	.51	M6081TR-ND	2,000	201.00/M	PM1210-R010K
0.01	17.00	100.00	2300.00	0.14	450.00	M6082CT-ND	.67	.61	.51	M6082TR-ND	2,000	201.00/M	PM1210-R012K
0.02	19.00	100.00	2100.00	0.16	450.00	M6083CT-ND	.67	.61	.51	M6083TR-ND	2,000	201.00/M	PM1210-R015K
0.02	21.00	100.00	1900.00	0.18	450.00	M6084CT-ND	.67	.61	.51	M6084TR-ND	2,000	201.00/M	PM1210-R018K
0.02	23.00	100.00	1700.00	0.20	450.00	M6085CT-ND	.67	.61	.51	M6085TR-ND	2,000	201.00/M	PM1210-R022K
0.03	23.00	100.00	1500.00	0.22	450.00	M6086CT-ND	.67	.61	.51	M6086TR-ND	2,000	201.00/M	PM1210-R027K
PM1210 Series 5%													
0.03	25.00	100.00	1400.00	0.24	450.00	M6087CT-ND	.67	.61	.51	M6087TR-ND	2,000	201.00/M	PM1210-R033J
0.04	25.00	100.00	1300.00	0.27	450.00	M6088CT-ND	.67	.61	.51	M6088TR-ND	2,000	201.00/M	PM1210-R039J
0.05	26.00	100.00	1200.00	0.30	450.00	M6089CT-ND	.67	.61	.51	M6089TR-ND	2,000	201.00/M	PM1210-R047J
0.06	26.00	100.00	1100.00	0.33	450.00	M6090CT-ND	.67	.61	.51	M6090TR-ND	2,000	201.00/M	PM1210-R056J
0.07	27.00	100.00	1000.00	0.36	450.00	M6091CT-ND	.67	.61	.51	M6091TR-ND	2,000	201.00/M	PM1210-R068J
0.08	27.00	100.00	900.00	0.40	450.00	M6092CT-ND	.67	.61	.51	M6092TR-ND	2,000	201.00/M	PM1210-R082J
0.10	28.00	100.00	700.00	0.44	450.00	M6093CT-ND	.67	.61	.51	M6093TR-ND	2,000	201.00/M	PM1210-R10J
0.12	28.00	25.20	500.00	0.22	450.00	M6094CT-ND	.67	.61	.51	M6094TR-ND	2,000	201.00/M	PM1210-R12J
0.15	28.00	25.20	450.00	0.25	450.00	M6095CT-ND	.67	.61	.51	M6095TR-ND	2,000	201.00/M	PM1210-R15J
0.18	28.00	25.20	400.00	0.28	450.00	M6096CT-ND	.67	.61	.51	M6096TR-ND	2,000	201.00/M	PM1210-R18J
0.22	28.00	25.20	350.00	0.32	450.00	M6097CT-ND	.67	.61	.51	M6097TR-ND	2,000	201.00/M	PM1210-R22J
0.27	28.00	25.20	320.00	0.36	450.00	M6098CT-ND	.67	.61	.51	M6098TR-ND	2,000	201.00/M	PM1210-R27J
0.33	28.00	25.20	300.00	0.40	450.00	M6099CT-ND	.67	.61	.51	M6099TR-ND	2,000	268.00/M	PM1210-R33J
0.39	28.00	25.20	250.00	0.45	450.00	M6100CT-ND	.67	.61	.51	M6100TR-ND	2,000	201.00/M	PM1210-R39J
0.47	28.00	25.20	220.00	0.50	450.00	M6101CT-ND	.67	.61	.51	M6101TR-ND	2,000	201.00/M	PM1210-R47J
0.56	28.00	25.20	180.00	0.55	450.00	M6102CT-ND	.67	.61	.51	M6102TR-ND	2,000	201.00/M	PM1210-R56J
0.68	28.00	25.20	160.00	0.60	450.00	M6103CT-ND	.67	.61	.51	M6103TR-ND	2,000	201.00/M	PM1210-R68J
0.82	28.00	25.20	140.00	0.65	450.00	M6104CT-ND	.67	.61	.51	M6104TR-ND	2,000	201.00/M	PM1210-R82J
1.00	28.00	7.96	120.00	0.70	400.00	M6105CT-ND	.67	.61	.51	M6105TR-ND	2,000	201.00/M	PM1210-1R0J
1.20	28.00	7.96	100.00	0.75	390.00	M6106CT-ND	.67	.61	.51	M6106TR-ND	2,000	268.00/M	PM1210-1R2J
1.50	28.00	7.96	85.00	0.85	370.00	M6107CT-ND	.67	.61	.51	M6107TR-ND	2,000	201.00/M	PM1210-1R5J
1.80	28.00	7.96	80.00	0.90	350.00	M6108CT-ND	.67	.61	.51	M6108TR-ND	2,000	201.00/M	PM1210-1R8J
2.20	30.00	7.96	75.00	1.00	320.00	M6109CT-ND	.67	.61	.51	M6109TR-ND	2,000	201.00/M	PM1210-2R2J
2.70	30.00	7.96	70.00	1.10	290.00	M6110CT-ND	.67	.61	.51	M6110TR-ND	2,000	201.00/M	PM1210-2R7J
3.30	30.00	7.96	60.00	1.20	260.00	M6111CT-ND	.67	.61	.51	M6111TR-ND	2,000	201.00/M	PM1210-3R3J
3.90	30.00	7.96	55.00	1.30	250.00	M6112CT-ND	.67	.61	.51	M6112TR-ND	2,000	201.00/M	PM1210-3R9J
4.70	30.00	7.96	50.00	1.70	220.00	M6113CT-ND	.67	.61	.51	M6113TR-ND	2,000	201.00/M	PM1210-4R7J
5.60	30.00	7.96	47.00	1.80	200.00	M6114CT-ND	.67	.61	.51	M6114TR-ND	2,000	201.00/M	PM1210-5R6J
6.80	30.00	7.96	43.00	2.00	180.00	M6115CT-ND	.67	.61	.51	M6115TR-ND	2,000	201.00/M	PM1210-6R8J
8.20	30.00	7.96	40.00	2.30	170.00	M6116CT-ND	.67	.61	.51	M6116TR-ND	2,000	201.00/M	PM1210-8R2J
10.00	30.00	2.52	36.00	2.50	150.00	M6117CT-ND	.67	.61	.51	M6117TR-ND	2,000	201.00/M	PM1210-100J
12.00	30.00	2.52	33.00	2.80	140.00	M6118CT-ND	.67	.61	.51	M6118TR-ND	2,000	201.00/M	PM1210-120J
15.00	30.00	2.52	30.00	3.20	130.00	M6119CT-ND	.67	.61	.51	M6119TR-ND	2,000	201.00/M	PM1210-150J

(Continued)

Surface Mount Chip Inductors *(Cont.)*

L (µH) ±10%	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	I,dc (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Price	J.W. Miller Part No.
PM1210 Series 5%													
18.00	30.00	2.52	27.00	3.60	120.00	M6120CT-ND	.67	.61	.51	M6120TR-ND	2,000	201.00/M	PM1210-180J
22.00	30.00	2.52	25.00	4.00	110.00	M6121CT-ND	.67	.61	.51	M6121TR-ND	2,000	201.00/M	PM1210-220J
27.00	30.00	2.52	20.00	5.00	80.00	M6122CT-ND	.67	.61	.51	M6122TR-ND	2,000	201.00/M	PM1210-270J
33.00	30.00	2.52	17.00	5.60	70.00	M6123CT-ND	.67	.61	.51	M6123TR-ND	2,000	201.00/M	PM1210-330J
39.00	30.00	2.52	16.00	6.40	65.00	M6124CT-ND	.67	.61	.51	M6124TR-ND	2,000	201.00/M	PM1210-390J
47.00	30.00	2.52	15.00	7.00	60.00	M6125CT-ND	.67	.61	.51	M6125TR-ND	2,000	201.00/M	PM1210-470J
56.00	30.00	2.52	13.00	8.00	55.00	M6126CT-ND	.67	.61	.51	M6126TR-ND	2,000	268.00/M	PM1210-560J
68.00	30.00	2.52	12.00	9.00	50.00	M6127CT-ND	.67	.61	.51	M6127TR-ND	2,000	201.00/M	PM1210-680J
82.00	30.00	2.52	11.00	10.00	45.00	M6128CT-ND	.67	.61	.51	M6128TR-ND	2,000	201.00/M	PM1210-820J
100.00	20.00	0.796	10.00	10.00	40.00	M6129CT-ND	.67	.61	.51	M6129TR-ND	2,000	201.00/M	PM1210-101J
120.00	20.00	0.796	10.00	11.00	70.00	M6130CT-ND	.67	.61	.51	M6130TR-ND	2,000	201.00/M	PM1210-121J
150.00	20.00	0.796	8.00	15.00	65.00	M6131CT-ND	.67	.61	.51	M6131TR-ND	2,000	201.00/M	PM1210-151J
180.00	20.00	0.796	7.00	17.00	60.00	M6132CT-ND	.67	.61	.51	M6132TR-ND	2,000	201.00/M	PM1210-181J
220.00	20.00	0.796	7.00	21.00	50.00	M6133CT-ND	.67	.61	.51	M6133TR-ND	2,000	201.00/M	PM1210-221J

Surface Mount High Power Inductors PM12639S, PM12645S, PM7232S Series

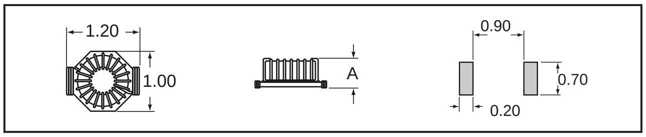


Features:

- Ideal for very high current DC/DC converter output inductors
- Magnetically shielded for low radiation
- High saturation current
- Low DC resistance
- Low Profile
- Test frequency: 100KHz
- Operating temperature: -40°C to 150°C

L(µH) ±20%	DCR Ω Max.	Irated (A)	Dimensions (mm) A	B	C	D	E	F	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	JW Miller Part No.
0.67	0.0015	22	12.6	12.6	3.9	5.0	6.5	13.0	M1261CT-ND	3.48	3.17	2.36	M1261TR-ND	800	1176.00	PM12639S-R67M
1.2	0.0029	16	12.6	12.6	3.9	5.0	6.5	13.0	M1262CT-ND	3.48	3.17	2.36	M1262TR-ND	800	1176.00	PM12639S-1R2M
1.2	0.0020	20	12.6	12.6	4.5	5.0	6.5	13.0	M1263CT-ND	3.55	3.23	2.40	M1263TR-ND	800	1200.00	PM12645S-1R2M
1.8	0.0035	13	12.6	12.6	4.5	5.0	6.5	13.0	M1264CT-ND	3.55	3.23	2.40	M1264TR-ND	800	1200.00	PM12645S-1R8M
2.7	0.0043	12	12.6	12.6	4.5	5.0	6.5	13.0	M1265CT-ND	3.55	3.23	2.40	M1265TR-ND	800	1200.00	PM12645S-2R7M
0.10	0.0009	22	7.2	6.6	3.2	2.5	4.0	7.5	M1266CT-ND	3.16	2.87	2.14	M1266TR-ND	1,500	1335.00/M	PM7232S-R10M
0.22	0.0014	17	7.2	6.6	3.2	2.5	4.0	7.5	M1267CT-ND	3.16	2.87	2.14	M1267TR-ND	1,500	1335.00/M	PM7232S-R22M
0.47	0.0030	15	7.2	6.6	3.2	2.5	4.0	7.5	M1268CT-ND	3.16	2.87	2.14	M1268TR-ND	1,500	1335.00/M	PM7232S-R47M
0.72	0.0080	12.5	7.2	6.6	3.2	2.5	4.0	7.5	M1269CT-ND	3.16	2.87	2.14	M1269TR-ND	1,500	1335.00/M	PM7232S-R72M
1.0	0.0084	10	7.2	6.6	3.2	2.5	4.0	7.5	M1270CT-ND	3.16	2.87	2.14	M1270TR-ND	1,500	1335.00/M	PM7232S-1R0M
1.5	0.0095	9	7.2	6.6	3.2	2.5	4.0	7.5	M1271CT-ND	3.16	2.87	2.14	M1271TR-ND	1,500	1335.00/M	PM7232S-1R5M

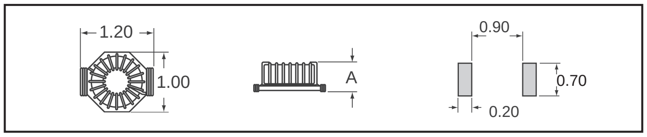
Surface Mount High Current Toroid Inductors PM2110 Series



L (µH) ±10% @ 1KHz	I,dc (A)	L (µH) ±20% @ Rated I	DCR (Ω) Max.	Dim. A Max.	Digi-Key Part No.	Price Each 1	10	25	J.W. Miller Part No.
PM2110 Series 20%									
1.00*	22.70	0.80	0.00	0.57	M6134-ND	6.27	5.85	5.54	PM2110-1R0M
1.20*	20.30	1.00	0.00	0.57	M6135-ND	6.27	5.85	5.54	PM2110-1R2M
1.50*	20.30	1.20	0.00	0.57	M6136-ND	6.27	5.85	5.54	PM2110-1R5M
1.80*	18.50	1.40	0.00	0.57	M6137-ND	6.27	5.85	5.54	PM2110-1R8M
2.20*	17.20	1.70	0.00	0.57	M6138-ND	6.27	5.85	5.54	PM2110-2R2M
2.70*	16.00	2.00	0.00	0.57	M6139-ND	6.27	5.85	5.54	PM2110-2R7M
3.30*	16.00	2.50	0.00	0.57	M6140-ND	6.27	5.85	5.54	PM2110-3R3M
3.90*	15.10	2.80	0.00	0.57	M6141-ND	6.27	5.85	5.54	PM2110-3R9M
4.70*	14.40	3.40	0.00	0.57	M6142-ND	6.27	5.85	5.54	PM2110-4R7M
5.60*	13.70	3.90	0.01	0.57	M6143-ND	6.27	5.85	5.54	PM2110-5R6M
6.80*	13.10	4.60	0.01	0.57	M6144-ND	6.27	5.85	5.54	PM2110-6R8M
8.20*	12.60	5.50	0.01	0.57	M6145-ND	6.27	5.85	5.54	PM2110-8R2M
PM2110 Series 10%									
10.00	11.70	6.50	0.01	0.57	M6146-ND	6.27	5.85	5.54	PM2110-100K
12.00	11.30	7.60	0.01	0.57	M6147-ND	6.27	5.85	5.54	PM2110-120K
15.00	10.70	9.20	0.01	0.57	M6148-ND	6.27	5.85	5.54	PM2110-150K
18.00	10.20	10.70	0.01	0.57	M6149-ND	6.27	5.85	5.54	PM2110-180K
22.00	9.70	12.70	0.01	0.57	M6150-ND	6.27	5.85	5.54	PM2110-220K
27.00	8.20	16.00	0.01	0.54	M6151-ND	6.27	5.85	5.54	PM2110-270K
33.00	7.00	20.10	0.02	0.52	M6152-ND	6.27	5.85	5.54	PM2110-330K
39.00	6.80	23.20	0.02	0.62	M6153-ND	6.27	5.85	5.54	PM2110-390K
47.00	6.50	27.20	0.02	0.62	M6154-ND	6.27	5.85	5.54	PM2110-470K
56.00	6.20	31.60	0.02	0.62	M6155-ND	6.27	5.85	5.54	PM2110-560K
68.00	5.90	37.10	0.03	0.62	M6156-ND	6.27	5.85	5.54	PM2110-680K
82.00	5.60	43.40	0.03	0.62	M6157-ND	6.27	5.85	5.54	PM2110-820K
100.00	5.40	51.40	0.03	0.62	M6158-ND	6.27	5.85	5.54	PM2110-101K
120.00	5.10	59.60	0.04	0.62	M6159-ND	6.27	5.85	5.54	PM2110-121K
150.00	4.30	77.30	0.05	0.59	M6160-ND	6.27	5.85	5.54	PM2110-151K
180.00	3.70	96.30	0.07	0.53	M6161-ND	6.27	5.85	5.54	PM2110-181K
220.00	3.50	113.80	0.07	0.60	M6162-ND	6.27	5.85	5.54	PM2110-221K
270.00	3.40	134.90	0.08	0.60	M6163-ND	6.27	5.85	5.54	PM2110-271K
330.00	3.20	159.50	0.09	0.60	M6164-ND	6.27	5.85	5.54	PM2110-331K
390.00	3.10	182.90	0.10	0.60	M6165-ND	6.27	5.85	5.54	PM2110-391K
470.00	2.60	230.40	0.13	0.57	M6166-ND	6.27	5.85	5.54	PM2110-471K
560.00	2.50	266.00	0.15	0.57	M6167-ND	6.27	5.85	5.54	PM2110-561K
680.00	2.10	337.10	0.20	0.54	M6168-ND	6.27	5.85	5.54	PM2110-681K
820.00	2.00	394.10	0.22	0.60	M6169-ND	6.27	5.85	5.54	PM2110-821K
1000.00	1.90	463.70	0.24	0.60	M6170-ND	6.27	5.85	5.54	PM2110-102K

* L (uH) ±20% @ 1KHz

Surface Mount High Current Toroid Inductors PM2120 Series



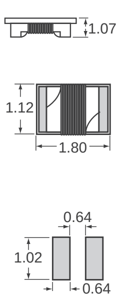
L (µH) ±10% @ 1KHz	I,dc (A)	L (µH) ±20% @ Rated I	DCR (Ω) Max.	Dim. A Max.	Digi-Key Part No.	Price Each 1	10	25	J.W. Miller Part No.
PM2120 Series 20%									
1.00*	25.40	0.90	0.00	0.82	M6171-ND	6.94	6.46	6.12	PM2120-1R0M
1.20*	25.40	1.10	0.00	0.82	M6172-ND	6.94	6.46	6.12	PM2120-1R2M
1.50*	22.00	1.30	0.00	0.82	M6173-ND	6.94	6.46	6.12	PM2120-1R5M
1.80*	22.00	1.50	0.00	0.82	M6174-ND	6.94	6.46	6.12	PM2120-1R8M
2.20*	19.70	1.80	0.00	0.82	M6175-ND	6.94	6.46	6.12	PM2120-2R2M
2.70*	19.70	2.20	0.00	0.82	M6176-ND	6.94	6.46	6.12	PM2120-2R7M
3.30*	18.00	2.60	0.00	0.82	M6177-ND	6.94	6.46	6.12	PM2120-3R3M
3.90*	18.00	3.10	0.00	0.82	M6178-ND	6.94	6.46	6.12	PM2120-3R9M
4.70*	16.60	3.70	0.01	0.82	M6179-ND	6.94	6.46	6.12	PM2120-4R7M
5.60*	15.60	4.20	0.01	0.82	M6180-ND	6.94	6.46	6.12	PM2120-5R6M
6.80*	14.70	5.00	0.01	0.82	M6181-ND	6.94	6.46	6.12	PM2120-6R8M
8.20*	14.70	6.10	0.01	0.82	M6182-ND	6.94	6.46	6.12	PM2120-8R2M
PM2120 Series 10%									
10.00	13.90	7.20	0.01	0.82	M6183-ND	6.94	6.46	6.12	PM2120-100K
12.00	12.70	8.30	0.01	0.82	M6184-ND	6.94	6.46	6.12	PM2120-120K
15.00	12.20	10.20	0.01	0.82	M6185-ND	6.94	6.46	6.12	PM2120-150K
18.00	11.80	12.00	0.01	0.82	M6186-ND	6.94	6.46	6.12	PM2120-180K
22.00	11.00	14.20	0.01	0.82	M6187-ND	6.94	6.46	6.12	PM2120-220K
27.00	10.40	16.90	0.01	0.82	M6188-ND	6.94	6.46	6.12	PM2120-270K
33.00	10.10	20.30	0.01	0.82	M6189-ND	6.94	6.46	6.12	PM2120-330K
39.00	9.60	23.30	0.01	0.82	M6190-ND	6.94	6.46	6.12	PM2120-390K
47.00	8.20	29.20	0.02	0.79	M6191-ND	6.94	6.46	6.12	PM2120-470K
56.00	7.90	33.90	0.02	0.79	M6192-ND	6.94	6.46	6.12	PM2120-560K
68.00	6.70	42.20	0.03	0.77	M6193-ND	6.94	6.46	6.12	PM2120-680K
82.00	6.40	49.50	0.03	0.87	M6194-ND	6.94	6.46	6.12	PM2120-820K
100.00	6.10	58.70	0.04	0.87	M6195-ND	6.94	6.46	6.12	PM2120-101K
120.00	5.80	68.10	0.04	0.87	M6196-ND	6.94	6.46	6.12	PM2120-121K
150.00	5.50	82.50	0.04	0.87	M6197-ND	6.94	6.46	6.12	PM2120-151K
180.00	5.30	96.20	0.05	0.83	M6198-ND	6.94	6.46	6.12	PM2120-181K
220.00	5.00	113.70	0.05	0.83	M6199-ND	6.94	6.46	6.12	PM2120-221K
270.00	4.20	144.50	0.07	0.80	M6200-ND	3.40	3.17	3.06	PM2120-271K
330.00	3.60	183.40	0.10	0.78	M6201-ND	6.94	6.46	6.12	PM2120-331K
390.00	3.50	211.60	0.11	0.78	M6202-ND	6.94	6.46	6.12	PM2120-391K
470.00	3.30	247.10	0.12	0.85	M6203-ND	6.94	6.46	6.12	PM2120-471K
560.00	3.20	285.80	0.13	0.85	M6204-ND	6.94	6.46	6.12	PM2120-561K
680.00	3.00	336.30	0.14	0.85	M6205-ND	6.94	6.46	6.12	PM2120-681K
820.00	2.90	392.50	0.16	0.85	M6206-ND	6.94	6.46	6.12	PM2120-821K
1000.00	2.50	499.70	0.22	0.82	M6207-ND	6.94	6.46	6.12	PM2120-102K

* L (uH) ±20% @ 1KHz

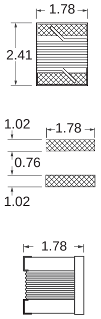
J.W.Miller
MAGNETICS

Surface Mount Chip Inductors

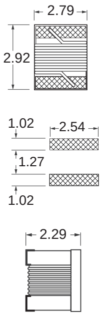
PM0603 Series



PM0805 Series



PM1008 Series



Features: • Ceramic Core, Wire Wound for Superior Reliability • High Self-Resonant Frequency • Flat Top Surface for Automated Pick and Place

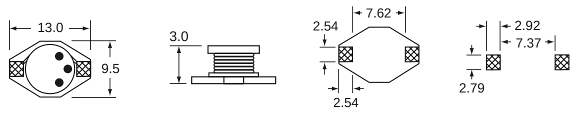
L (nH)	Tol.	Q Min.	L Test Freq. MHz	R,dc Max. Ohms	I,dc Max. mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 3,000	J.W.Miller Part No.
PM0603 Series											
2.2	±0.3 nH	18	250	0.08	700	M1243CT-ND	.64	.58	.48	190.50/M	PM0603-2N2
3.9	±0.3 nH	22	250	0.08	700	M1246CT-ND	.64	.58	.48	190.50/M	PM0603-3N9
4.7	±0.3 nH	20	250	0.13	700	M1248CT-ND	.64	.58	.48	190.50/M	PM0603-4N7
6.8	±5%	28	250	0.11	700	M1251CT-ND	.64	.58	.48	190.50/M	PM0603-6N8J
8.2	±5%	30	250	0.11	700	M1254CT-ND	.64	.58	.48	190.50/M	PM0603-8N2J
10	±5%	30	250	0.15	700	M1237CT-ND	.64	.58	.48	190.50/M	PM0603-10NJ
12	±5%	30	250	0.13	700	M1238CT-ND	.64	.58	.48	190.50/M	PM0603-12NJ
15	±5%	35	250	0.17	700	M1239CT-ND	.64	.58	.48	190.50/M	PM0603-15NJ
18	±5%	35	250	0.17	700	M1240CT-ND	.64	.58	.48	190.50/M	PM0603-18NJ
22	±5%	38	250	0.19	700	M1241CT-ND	.64	.58	.48	190.50/M	PM0603-22NJ
27	±5%	40	250	0.23	700	M1242CT-ND	.64	.58	.48	190.50/M	PM0603-27NJ
33	±5%	43	250	0.23	600	M1244CT-ND	.64	.58	.48	190.50/M	PM0603-33NJ
39	±5%	43	250	0.25	600	M1245CT-ND	.64	.58	.48	190.50/M	PM0603-39NJ
47	±5%	40	200	0.28	600	M1247CT-ND	.64	.58	.48	190.50/M	PM0603-47NJ
56	±5%	40	200	0.31	600	M1249CT-ND	.64	.58	.48	190.50/M	PM0603-56NJ
68	±5%	40	200	0.34	600	M1250CT-ND	.64	.58	.48	190.50/M	PM0603-68NJ
72	±5%	35	150	0.49	400	M1252CT-ND	.64	.58	.48	190.50/M	PM0603-72NJ
82	±5%	35	150	0.54	400	M1253CT-ND	.64	.58	.48	190.50/M	PM0603-82NJ
100	±5%	35	150	0.58	400	M1255CT-ND	.64	.58	.48	190.50/M	PM0603-R10J
120	±5%	35	150	0.65	300	M1256CT-ND	.64	.58	.48	190.50/M	PM0603-R12J
150	±5%	30	150	0.92	280	M1257CT-ND	.64	.58	.48	190.50/M	PM0603-R15J
180	±5%	30	100	1.25	240	M1258CT-ND	.64	.58	.48	190.50/M	PM0603-R18J
220	±5%	30	100	2.10	200	M1259CT-ND	.64	.58	.48	190.50/M	PM0603-R22J
270	±5%	30	100	2.30	170	M1260CT-ND	.64	.58	.48	190.50/M	PM0603-R27J

L	Tol. %	Q Min.	L Test Freq. MHz	R,dc Max. Ohms	I,dc Max. mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 3,000	J.W.Miller Part No.
PM0805 Series											
2.2nH	20	15	250	0.08	600	M1150CT-ND	.53	.48	.40	157.50/M	PM0805-2N2M
3.3nH	20	50	250	0.08	600	M1151CT-ND	.53	.48	.40	157.50/M	PM0805-3N3M
6.8nH	20	50	250	0.11	600	M1152CT-ND	.53	.48	.40	157.50/M	PM0805-6N8M
8.2nH	20	50	250	0.12	600	M1153CT-ND	.53	.48	.40	157.50/M	PM0805-8N2M
12nH	20	50	250	0.15	600	M1154CT-ND	.53	.48	.40	157.50/M	PM0805-12NM
15nH	20	50	250	0.17	600	M1155CT-ND	.53	.48	.40	157.50/M	PM0805-15NM
18nH	20	50	250	0.20	600	M1156CT-ND	.53	.48	.40	157.50/M	PM0805-18NM
22nH	20	55	250	0.22	500	M1157CT-ND	.53	.48	.40	157.50/M	PM0805-22NM
27nH	20	55	250	0.25	500	M1158CT-ND	.53	.48	.40	157.50/M	PM0805-27NM
33nH	20	60	250	0.27	500	M1159CT-ND	.53	.48	.40	157.50/M	PM0805-33NM
39nH	20	60	250	0.29	500	M1160CT-ND	.53	.48	.40	157.50/M	PM0805-39NM
47nH	20	60	200	0.31	500	M1161CT-ND	.53	.48	.40	157.50/M	PM0805-47NM
.056µH	10	60	200	0.34	500	M1162CT-ND	.53	.48	.40	157.50/M	PM0805-56NK
.068µH	10	60	200	0.38	500	M1163CT-ND	.53	.48	.40	157.50/M	PM0805-68NK
.082µH	10	65	150	0.42	400	M1164CT-ND	.53	.48	.40	157.50/M	PM0805-82NK
.10µH	10	65	150	0.46	400	M1165CT-ND	.53	.48	.40	157.50/M	PM0805-R10K
.12µH	10	50	150	0.51	400	M1166CT-ND	.53	.48	.40	157.50/M	PM0805-R12K
.15µH	10	50	100	0.56	400	M1167CT-ND	.53	.48	.40	157.50/M	PM0805-R15K
.18µH	10	50	100	0.64	400	M1168CT-ND	.53	.48	.40	157.50/M	PM0805-R18K
.22µH	10	50	100	0.70	400	M1169CT-ND	.53	.48	.40	157.50/M	PM0805-R22K
.27µH	10	40	100	1.1	280	M1170CT-ND	.53	.48	.40	157.50/M	PM0805-R27K
.33µH	10	40	100	1.2	260	M1171CT-ND	.53	.48	.40	157.50/M	PM0805-R33K
.39µH	10	40	100	1.5	200	M1172CT-ND	.53	.48	.40	157.50/M	PM0805-R39K

L	Tol. %	Q Min.	L Test Freq. MHz	R,dc Max. Ohms	I,dc Max. mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 2,000	J.W.Miller Part No.
PM1008 Series											
10nH	20	50	50	0.08	1000	M1176CT-ND	.68	.61	.51	202.50/M	PM1008-10NM
12nH	20	50	50	0.09	1000	M1177CT-ND	.68	.61	.51	202.50/M	PM1008-12NM
15nH	20	50	50	0.10	1000	M1178CT-ND	.68	.61	.51	202.50/M	PM1008-15NM
18nH	20	50	50	0.11	1000	M1179CT-ND	.68	.61	.51	202.50/M	PM1008-18NM
22nH	20	55	50	0.12	1000	M1180CT-ND	.68	.61	.51	202.50/M	PM1008-22NM
27nH	20	55	50	0.13	1000	M1181CT-ND	.68	.61	.51	202.50/M	PM1008-27NM
33nH	20	60	50	0.14	1000	M1182CT-ND	.68	.61	.51	202.50/M	PM1008-33NM
39nH	20	60	50	0.15	1000	M1183CT-ND	.68	.61	.51	202.50/M	PM1008-39NM
47nH	20	65	50	0.16	1000	M1184CT-ND	.68	.61	.51	202.50/M	PM1008-47NM
56nH	10	65	50	0.18	1000	M1185CT-ND	.68	.61	.51	202.50/M	PM1008-56NK
68nH	10	65	50	0.20	1000	M1186CT-ND	.68	.61	.51	202.50/M	PM1008-68NK
82nH	10	60	50	0.22	1000	M1187CT-ND	.68	.61	.51	202.50/M	PM1008-82NK
.10µH	10	60	25	0.56	650	M1188CT-ND	.68	.61	.51	202.50/M	PM1008-R10K
.12µH	10	60	25	0.68	650	M1189CT-ND	.68	.61	.51	202.50/M	PM1008-R12K
.15µH	10	45	25	0.70	580	M1190CT-ND	.68	.61	.51	202.50/M	PM1008-R15K
.18µH	10	45	25	0.77	620	M1191CT-ND	.68	.61	.51	202.50/M	PM1008-R18K
.22µH	10	45	25	0.84	500	M1192CT-ND	.68	.61	.51	202.50/M	PM1008-R22K
.27µH	10	45	25	0.91	500	M1193CT-ND	.68	.61	.51	202.50/M	PM1008-R27K
.33µH	10	45	25	1.05	450	M1194CT-ND	.68	.61	.51	202.50/M	PM1008-R33K
.39µH	10	45	25	1.12	470	M1195CT-ND	.68	.61	.51	202.50/M	PM1008-R39K
.47µH	10	45	25	1.19	470	M1196CT-ND	.68	.61	.51	202.50/M	PM1008-R47K
.56µH	10	45	25	1.33	400	M1197CT-ND	.68	.61	.51	202.50/M	PM1008-R56K
.68µH	10	45	25	1.47	400	M1198CT-ND	.68	.61	.51	202.50/M	PM1008-R68K
.82µH	10	45	25	1.61	400	M1199CT-ND	.68	.61	.51	202.50/M	PM1008-R82K
1.0µH	10	35	25	1.75	370	M1200CT-ND	.68	.61	.51	202.50/M	PM1008-1R0K
1.2µH	10	35	7.9	2.00	340	M1201CT-ND	.68	.61	.51	202.50/M	PM1008-1R2K
1.5µH	10	28	7.9	2.30	330	M1202CT-ND	.68	.61	.51	202.50/M	PM1008-1R5K
1.8µH	10	28	7.9	2.60	300	M1203CT-ND	.68	.61	.51	202.50/M	PM1008-1R8K
2.2µH	10	28	7.9	2.80	290	M1204CT-ND	.68	.61	.51	202.50/M	PM1008-2R2K
2.7µH	10	22	7.9	3.20	290	M1205CT-ND	.68	.61	.51	202.50/M	PM1008-2R7K
3.3µH	10	22	7.9	3.40	290	M1206CT-ND	.68	.61	.51	202.50/M	PM1008-3R3K
3.9µH	10	20	7.9	3.60	260	M1207CT-ND	.68	.61	.51	202.50/M	PM1008-3R9K
4.7µH	10	20	7.9	4.00	260	M1208CT-ND	.68	.61	.51	202.50/M	PM1008-4R7K

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors —
PM3308 Series



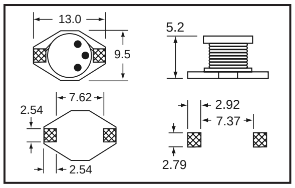
L ±20% (µH)	R, dc Max. Ohms	I, sat. Amp	I, rms Amp	Digi-Key Part No.*	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	J.W.Miller Part No.
10	0.11	2.4	2.0	M9719CT-ND	2.90	2.61	2.18	870.00	PM3308-100M
15	0.15	2.0	1.5	M9720CT-ND	2.90	2.61	2.18	870.00	PM3308-150M
22	0.23	1.6	1.3	M9721CT-ND	2.90	2.61	2.18	870.00	PM3308-220M
33	0.30	1.4	1.1	M9722CT-ND	2.90	2.61	2.18	870.00	PM3308-330M
47	0.39	1.0	0.8	M9723CT-ND	2.90	2.61	2.18	870.00	PM3308-470M
68	0.66	0.9	0.7	M9724CT-ND	2.90	2.61	2.18	870.00	PM3308-680M
100	0.84	0.7	0.6	M9725CT-ND	2.90	2.61	2.18	870.00	PM3308-101M
150	1.2	0.6	0.5	M9726CT-ND	2.90	2.61	2.18	870.00	PM3308-151M
220	1.9	0.5	0.4	M9727CT-ND	2.90	2.61	2.18	870.00	PM3308-221M
330	2.7	0.4	0.3	M9728CT-ND	2.90	2.61	2.18	870.00	PM3308-331M
470	4.0	0.3	0.2	M9729CT-ND	2.90	2.61	2.18	870.00	PM3308-471M
680	5.3	0.2	0.1	M9730CT-ND	2.90	2.61	2.18	870.00	PM3308-681M
1000	8.4	0.1	0.05	M9731CT-ND	2.90	2.61	2.18	870.00	PM3308-102M

* For Tape and Reel part number, change CT-ND to TR-ND.

J.W.Miller
MAGNETICS

Surface Mount Power Inductors —

PM3316 Series

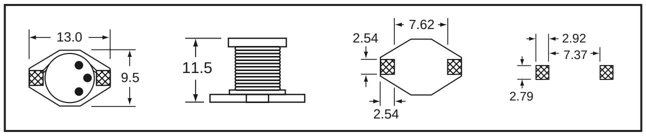


L ±20% (µH)	R, dc Max. Ohms	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 500	J.W.Miller Part No.
1.0	0.009	9.0	6.8	M9700CT-ND	3.00	2.70	2.25	450.00	PM3316-1R0M
1.5	0.010	8.0	6.4	M9701CT-ND	3.00	2.70	2.25	450.00	PM3316-1R5M
2.2	0.012	7.0	6.1	M9702CT-ND	3.00	2.70	2.25	450.00	PM3316-2R2M
3.3	0.015	6.4	5.4	M9703CT-ND	3.00	2.70	2.25	450.00	PM3316-3R3M
4.7	0.018	5.4	4.8	M9704CT-ND	3.00	2.70	2.25	450.00	PM3316-4R7M
6.8	0.027	4.6	4.4	M9705CT-ND	3.00	2.70	2.25	450.00	PM3316-6R8M
10	0.038	3.8	3.9	M9706CT-ND	3.00	2.70	2.25	450.00	PM3316-100M
15	0.046	3.0	3.1	M9707CT-ND	3.00	2.70	2.25	450.00	PM3316-150M
22	0.085	2.6	2.7	M9708CT-ND	3.00	2.70	2.25	450.00	PM3316-220M
33	0.10	2.0	2.1	M9709CT-ND	3.00	2.70	2.25	450.00	PM3316-330M
47	0.14	1.6	1.8	M9710CT-ND	3.00	2.70	2.25	450.00	PM3316-470M
68	0.20	1.4	1.5	M9711CT-ND	3.00	2.70	2.25	450.00	PM3316-680M
100	0.28	1.2	1.3	M9712CT-ND	3.00	2.70	2.25	450.00	PM3316-101M
150	0.40	1.0	1.0	M9713CT-ND	3.00	2.70	2.25	450.00	PM3316-151M
220	0.61	0.8	0.8	M9714CT-ND	3.00	2.70	2.25	450.00	PM3316-221M
330	1.02	0.6	0.6	M9715CT-ND	3.00	2.70	2.25	450.00	PM3316-331M
470	1.27	0.5	0.5	M9716CT-ND	3.00	2.70	2.25	450.00	PM3316-471M
680	2.02	0.4	0.4	M9717CT-ND	3.00	2.70	2.25	450.00	PM3316-681M
1000	3.00	0.3	0.3	M9718CT-ND	3.00	2.70	2.25	450.00	PM3316-102M

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors —

PM3340 Series

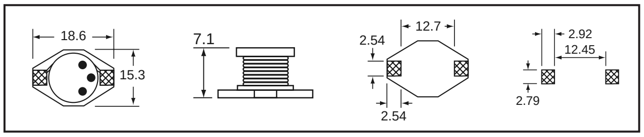


L ±20% (µH)	R, dc Max. Ohms	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 225	J.W.Miller Part No.
10	0.033	8.0	3.5	M9732CT-ND	3.40	3.06	2.55	229.50	PM3340-100M
15	0.042	7.0	3.0	M9733CT-ND	3.40	3.06	2.55	229.50	PM3340-150M
22	0.054	5.5	2.5	M9734CT-ND	3.40	3.06	2.55	229.50	PM3340-220M
33	0.08	4.0	2.0	M9735CT-ND	3.40	3.06	2.55	229.50	PM3340-330M
47	0.1	3.8	1.6	M9736CT-ND	3.40	3.06	2.55	229.50	PM3340-470M
68	0.17	3.0	1.2	M9737CT-ND	3.40	3.06	2.55	229.50	PM3340-680M
100	0.22	2.5	1.2	M9738CT-ND	3.40	3.06	2.55	229.50	PM3340-101M
150	0.34	2.0	0.9	M9739CT-ND	3.40	3.06	2.55	229.50	PM3340-151M
220	0.44	1.6	0.7	M9740CT-ND	3.40	3.06	2.55	229.50	PM3340-221M
330	0.7	1.2	0.6	M9741CT-ND	3.40	3.06	2.55	229.50	PM3340-331M
470	0.95	1.0	0.3	M9742CT-ND	3.40	3.06	2.55	229.50	PM3340-471M
680	1.2	1.0	0.2	M9743CT-ND	3.40	3.06	2.55	229.50	PM3340-681M
1000	2.0	0.8	0.1	M9744CT-ND	3.40	3.06	2.55	229.50	PM3340-102M

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors —

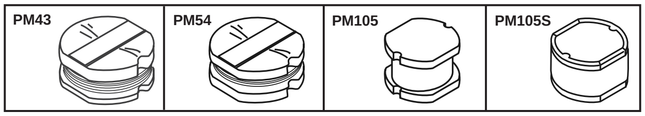
PM5022 Series

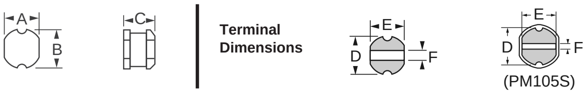


L ±20% (µH)	R, dc Max. Ohms	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 250	J.W.Miller Part No.
1.0	0.011	20	8.6	M9745CT-ND	4.40	3.96	3.30	330.00	PM5022-1R0M
2.2	0.014	16	7.1	M9747CT-ND	4.40	3.96	3.30	330.00	PM5022-2R2M
3.3	0.016	14	6.2	M9748CT-ND	4.40	3.96	3.30	330.00	PM5022-3R3M
5.6	0.022	12	5.3	M9746CT-ND	4.40	3.96	3.30	330.00	PM5022-5R6M
10	0.032	10	4.3	M9751CT-ND	4.40	3.96	3.30	330.00	PM5022-100M
15	0.036	8	4.0	M9752CT-ND	4.40	3.96	3.30	330.00	PM5022-150M
22	0.047	7	3.5	M9753CT-ND	4.40	3.96	3.30	330.00	PM5022-220M
33	0.066	5.5	3.0	M9754CT-ND	4.40	3.96	3.30	330.00	PM5022-330M
47	0.087	4.5	2.6	M9755CT-ND	4.40	3.96	3.30	330.00	PM5022-470M
68	0.13	3.5	2.3	M9756CT-ND	4.40	3.96	3.30	330.00	PM5022-680M
100	0.19	3.0	1.8	M9757CT-ND	4.40	3.96	3.30	330.00	PM5022-101M
150	0.25	2.6	1.5	M9758CT-ND	4.40	3.96	3.30	330.00	PM5022-151M
220	0.38	2.4	1.2	M9759CT-ND	4.40	3.96	3.30	330.00	PM5022-221M
330	0.56	1.9	1.0	M9760CT-ND	4.40	3.96	3.30	330.00	PM5022-331M
470	0.85	1.4	0.82	M9761CT-ND	4.40	3.96	3.30	330.00	PM5022-471M
680	1.2	1.2	0.72	M9762CT-ND	4.40	3.96	3.30	330.00	PM5022-681M
1000	1.8	1.0	0.56	M9763CT-ND	4.40	3.96	3.30	330.00	PM5022-102M

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors





	Dimensions (mm)					
Series	**A**	**B**	**C**	**D Typ.**	**E Typ.**	**F Typ.**
PM43	4.0 ± 0.3	4.5 ± 0.3	3.2 ± 0.3	4.5	4.0	1.2
PM54	5.2 ± 0.3	5.8 ± 0.3	4.5 ± 0.3	5.8	5.2	1.3
PM105	9.0 ± 0.4	10.0 ± 0.4	5.4 ± 0.4	10.0	9.0	2.1
PM105S	9.2 ± 0.4	10.0 ± 0.4	5.0 ± 0.5	7.8	7.0	1.6

L (µH)	Tol. %	Test Freq	Max. DCR Ohms	Rated I Amps	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,500	J.W.Miller Part No.
PM43 Series											
10	20	2.5MHz	0.182	1.04	M3100CT-ND	1.63	1.47	1.23	M3100TR-ND	489.00/M	PM43-100M
12	20	2.5MHz	0.210	0.97	M3120CT-ND	1.63	1.47	1.23	M3120TR-ND	489.00/M	PM43-120M
15	20	2.5MHz	0.235	0.85	M3150CT-ND	1.63	1.47	1.23	M3150TR-ND	489.00/M	PM43-150M
18	20	2.5MHz	0.338	0.74	M3180CT-ND	1.63	1.47	1.23	M3180TR-ND	489.00/M	PM43-180M
22	20	2.5MHz	0.378	0.68	M3220CT-ND	1.63	1.47	1.23	M3220TR-ND	489.00/M	PM43-220M
27	20	2.5MHz	0.522	0.62	M3327CT-ND	1.63	1.47	1.23	M3327TR-ND	489.00/M	PM43-270M
33	10	2.5MHz	0.540	0.56	M3330CT-ND	1.63	1.47	1.23	M3330TR-ND	489.00/M	PM43-330K
39	10	2.5MHz	0.587	0.52	M3390CT-ND	1.63	1.47	1.23	M3390TR-ND	489.00/M	PM43-390K
47	10	2.5MHz	0.844	0.44	M3470CT-ND	1.63	1.47	1.23	M3470TR-ND	489.00/M	PM43-470K
56	10	2.5MHz	0.937	0.42	M3560CT-ND	1.63	1.47	1.23	M3560TR-ND	489.00/M	PM43-560K
68	10	2.5MHz	1.117	0.37	M3680CT-ND	1.63	1.47	1.23	M3680TR-ND	489.00/M	PM43-680K
PM54 Series											
10	20	2.5MHz	0.10	1.44	M4100CT-ND	1.00	.90	.75	M4100TR-ND	300.00/M	PM54-100M
12	20	2.5MHz	0.12	1.40	M4120CT-ND	1.63	1.47	1.23	M4120TR-ND	489.00/M	PM54-120M
15	20	2.5MHz	0.14	1.30	M4150CT-ND	1.63	1.47	1.23	M4150TR-ND	489.00/M	PM54-150M
18	20	2.5MHz	0.15	1.23	M4180CT-ND	1.63	1.47	1.23	M4180TR-ND	489.00/M	PM54-180M
22	20	2.5MHz	0.18	1.11	M4220CT-ND	1.63	1.47	1.23	M4220TR-ND	489.00/M	PM54-220M
27	20	2.5MHz	0.20	0.97	M4270CT-ND	1.63	1.47	1.23	M4270TR-ND	489.00/M	PM54-270M
33	15	2.5MHz	0.23	0.88	M4330CT-ND	1.63	1.47	1.23	M4330TR-ND	489.00/M	PM54-330L
39	15	2.5MHz	0.32	0.80	M4390CT-ND	1.63	1.47	1.23	M4390TR-ND	489.00/M	PM54-390L
47	15	2.5MHz	0.37	0.72	M4470CT-ND	1.63	1.47	1.23	M4470TR-ND	489.00/M	PM54-470L
56	10	2.5MHz	0.42	0.68	M4560CT-ND	1.63	1.47	1.23	M4560TR-ND	489.00/M	PM54-560K
68	10	2.5MHz	0.46	0.61	M4680CT-ND	1.63	1.47	1.23	M4680TR-ND	489.00/M	PM54-680K
82	10	2.5MHz	0.60	0.58	M4820CT-ND	1.63	1.47	1.23	M4820TR-ND	489.00/M	PM54-820K
100	10	1KHz	0.70	0.52	M4101CT-ND	1.63	1.47	1.23	M4101TR-ND	489.00/M	PM54-101K
120	10	1KHz	0.93	0.48	M4121CT-ND	1.63	1.47	1.23	M4121TR-ND	489.00/M	PM54-121K
150	10	1KHz	1.10	0.40	M4151CT-ND	1.63	1.47	1.23	M4151TR-ND	489.00/M	PM54-151K
180	10	1KHz	1.38	0.38	M4181CT-ND	1.63	1.47	1.23	M4181TR-ND	489.00/M	PM54-181K
220	10	1KHz	1.57	0.35	M4221CT-ND	1.63	1.47	1.23	M4221TR-ND	489.00/M	PM54-221K

L (µH)	Tol. %	Test Freq	Max. DCR Ohms	Rated I Amps	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 500	J.W.Miller Part No.
PM105 Series											
10	20	2.5MHz	0.06	2.60	M1001CT-ND	2.75	2.48	2.07	M1001TR-ND	412.50	PM105-100M
12	20	2.5MHz	0.07	2.45	M1002CT-ND	2.75	2.48	2.07	M1002TR-ND	412.50	PM105-120M
15	20	2.5MHz	0.08	2.27	M1003CT-ND	2.75	2.48	2.07	M1003TR-ND	412.50	PM105-150M
18	20	2.5MHz	0.09	2.15	M1004CT-ND	2.75	2.48	2.07	M1004TR-ND	412.50	PM105-180M
22	20	2.5MHz	0.10	1.95	M1005CT-ND	2.75	2.48	2.07	M1005TR-ND	412.50	PM105-220M
27	20	2.5MHz	0.11	1.76	M1006CT-ND	2.75	2.48	2.07	M1006TR-ND	412.50	PM105-270M
33	20	2.5MHz	0.12	1.50	M1007CT-ND	2.75	2.48	2.07	M1007TR-ND	412.50	PM105-330M
39	20	2.5MHz	0.14	1.37	M1008CT-ND	2.75	2.48	2.07	M1008TR-ND	412.50	PM105-390M
47	10	2.5MHz	0.17	1.28	M1009CT-ND	2.75	2.48	2.07	M1009TR-ND	412.50	PM105-470K
56	10	2.5MHz	0.19	1.17	M1010CT-ND	2.75	2.48	2.07	M1010TR-ND	412.50	PM105-560K
68	10	2.5MHz	0.22	1.11	M1011CT-ND	2.75	2.48	2.07	M1011TR-ND	412.50	PM105-680K
82	10	2.5MHz	0.25	1.00	M1012CT-ND	2.75	2.48	2.07	M1012TR-ND	412.50	PM105-820K
100	10	1kHz	0.35	0.97	M1013CT-ND	2.75	2.48	2.07	M1013TR-ND	412.50	PM105-101K
120	10	1kHz	0.40	0.89	M1014CT-ND	2.75	2.48	2.07	M1014TR-ND	412.50	PM105-121K
150	10	1kHz	0.47	0.78	M1015CT-ND	2.75	2.48	2.07	M1015TR-ND	412.50	PM105-151K
180	10	1kHz	0.63	0.72	M1016CT-ND	2.75	2.48	2.07	M1016TR-ND	412.50	PM105-181K
220	10	1kHz	0.73	0.66	M1017CT-ND	2.75	2.48	2.07	M1017TR-ND	412.50	PM105-221K
270	10	1kHz	0.97	0.57	M1018CT-ND	2.75	2.48	2.07	M1018TR-ND	412.50	PM105-271K
330	10	1kHz	1.15	0.52	M1019CT-ND	2.75	2.48	2.07	M1019TR-ND	412.50	PM105-331K
390	10	1kHz	1.30	0.48	M1020CT-ND	2.75	2.48	2.07	M1020TR-ND	412.50	PM105-391K
470	10	1kHz	1.48	0.42	M1021CT-ND	2.75	2.48	2.07	M1021TR-ND	412.50	PM105-471K
560	10	1kHz	1.90	0.33	M1022CT-ND	2.75	2.48	2.07	M1022TR-ND	412.50	PM105-561K
680	10	1kHz	2.25	0.28	M1023CT-ND	2.75	2.48	2.07	M1023TR-ND	412.50	PM105-681K
820	10	1kHz	2.55	0.24	M1024CT-ND	2.75	2.48	2.07	M1024TR-ND	412.50	PM105-821K
PM105S (Shielded) Series											
10	20	2.5MHz	0.06	2.53	M1025CT-ND	4.40	3.96	3.30	M1025TR-ND	660.00	PM105S-100M
12	20	2.5MHz	0.06	2.31	M1026CT-ND	4.40	3.96	3.30	M1026TR-ND	660.00	PM105S-120M
15	20	2.5MHz	0.07	2.06	M1027CT-ND	4.40	3.96	3.30	M1027TR-ND	660.00	PM105S-150M
18	20	2.5MHz	0.08	1.89	M1028CT-ND	4.40	3.96	3.30	M1028TR-ND	660.00	PM105S-180M
22	20	2.5MHz	0.09	1.71	M1029CT-ND	4.40	3.96	3.30	M1029TR-ND	660.00	PM105S-220M
27	20	2.5MHz	0.11	1.54	M1030CT-ND	4.40	3.96	3.30	M1030TR-ND	660.00	PM105S-270M
33	20	2.5MHz	0.12	1.39	M1031CT-ND	4.40	3.96	3.30	M1031TR-ND	660.00	PM105S-330M
39	20	2.5MHz	0.16	1.28	M1032CT-ND	4.40	3.96	3.30	M1032TR-ND	660.00	PM105S-390M
47	20	2.5MHz	0.18	1.17	M1033CT-ND	4.40	3.96	3.30	M1033TR-ND	660.00	PM105S-470M
56	20	2.5MHz	0.19	1.07	M1034CT-ND	4.40	3.96	3.30	M1034TR-ND	660.00	PM105S-560M
68	20	2.5MHz	0.22	0.97	M1035CT-ND	4.40	3.96	3.30	M1035TR-ND	660.00	PM105S-680M
82	20	2.5MHz	0.28	0.88	M1036CT-ND	4.40	3.96	3.30	M1036TR-ND	660.00	PM105S-820M
100	20	1kHz	0.35	0.80	M1037CT-ND	4.40	3.96	3.30	M1037TR-ND	660.00	PM105S-101M
120	20	1kHz	0.38	0.73	M1038CT-ND	4.40	3.96	3.30	M1038TR-ND	660.00	PM105S-121M
150	20	1kHz	0.45	0.65	M1039CT-ND	4.40	3.96	3.30	M1039TR-ND	660.00	PM105S-151M
180	20	1kHz	0.62	0.60	M1040CT-ND	4.40	3.96	3.30	M1040TR-ND	660.00	PM105S-181M
220	20	1kHz	0.69	0.54	M1041CT-ND	4.40	3.96	3.30	M1041TR-ND	660.00	PM105S-221M
270	20	1kHz	.78	0.49	M1042CT-ND	4.40	3.96	3.30	M1042TR-ND	660.00	PM105S-271M
330	20	1kHz	1.03	0.44	M1043CT-ND	4.40	3.96	3.30	M1043TR-ND	660.00	PM105S-331M
390	20	1kHz	1.18	0.41	M1044CT-ND	4.40	3.96	3.30	M1044TR-ND	660.00	PM105S-391M
470	20	1kHz	1.60	0.37	M1045CT-ND	4.40	3.96	3.30	M1045TR-ND	660.00	PM105S-471M

J.W.Miller
MAGNETICS

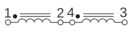
Surface Mount Dual Toroid Inductors

The PM3602 and PM3604 Series are versatile surface mount coils that can provide different functions in a single package. A bifilar method is used in the winding of these coils. The user can utilize these coils in four different ways, depending on the external connection chosen:

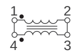
(1) Parallel Connection:	Doubles the current capacity
(2) Series Connection:	4 times the parallel inductance
(3) Dual Inductor:	Creates two differential mode inductors
(4) 1:1 Ratio Transformer:	For isolation and some flyback applications

Features:
• Toroidal core design to minimize RFI radiation • Low loss core material • Encapsulated in case for pick and place capability • Reflow soldering • Hi-pot 500V • Operating ambient temperature: -40°C to +85°C

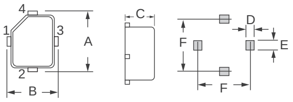
Typical Applications:
• Switching power supplies • Converters • Data communications • Processor/controller circuits • Personal computers • Filters



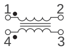
Series Mode



Parallel Mode



Series or parallel connections are made at the circuit level (not an internal connection of the device.



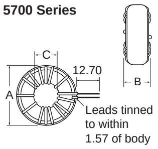
1:1 Transformer/
Dual Differential Mode

Part #	Dimensions (mm) A	B	C	D	E	F
PM3602	11.48	8.99	5.71	2.54	2.54	9.78
PM3604	13.97	11.48	6.73	4.06	2.54	12.70

Parallel L ±20% µH	Parallel I,dc Max. Amps	Parallel L ±20% @ I,dc µH	Parallel R,dc Max. Ohms	Series L ±20% µH	Series I,dc Max. Amps	Series L ±20% @ I,dc µH	Series R,dc Max. Ohms	Digi-Key Part No.	Price Each 1	10	25	J.W.Miller Part No.
PM3602 Series												
5	2.41	3.8	0.023	20	1.20	15.2	0.092	M1209-ND	1.71	1.69	1.67	PM3602-5-B
8	1.90	6.1	0.037	32	0.95	23.2	0.15	M1210-ND	1.71	1.69	1.67	PM3602-8-B
10	1.83	7.4	0.040	40	0.92	29.6	0.16	M1211-ND	1.71	1.69	1.67	PM3602-10-B
15	1.45	11.1	0.063	60	0.73	44.4	0.25	M1212-ND	1.71	1.69	1.67	PM3602-15-B
20	1.25	15.2	0.086	80	0.63	60.8	0.34	M1213-ND	1.71	1.69	1.67	PM3602-20-B
25	1.17	18.5	0.098	100	0.59	74.0	0.39	M1214-ND	1.71	1.69	1.67	PM3602-25-B
33	0.98	24.8	0.14	132	0.49	99.2	0.56	M1215-ND	1.71	1.69	1.67	PM3602-33-B
50	0.78	37.5	0.22	200	0.38	150.0	0.88	M1216-ND	1.71	1.69	1.67	PM3602-50-B
68	0.72	49.6	0.26	272	0.36	198.4	1.04	M1217-ND	1.71	1.69	1.67	PM3602-68-B
100	0.58	74.0	0.40	400	0.29	296.0	1.60	M1218-ND	2.46	2.42	2.40	PM3602-100-B
150	0.47	111.0	0.60	600	0.24	444.0	2.40	M1219-ND	2.46	2.42	2.40	PM3602-150-B
200	0.40	150.0	0.84	800	0.20	600.0	3.36	M1220-ND	2.46	2.42	2.40	PM3602-200-B
250	0.33	192.5	1.19	1000	0.17	770.0	4.76	M1221-ND	2.46	2.42	2.40	PM3602-250-B
300	0.32	225.0	1.31	1200	0.16	900.0	5.24	M1222-ND	2.46	2.42	2.40	PM3602-300-B
PM3604 Series												
5	3.30	3.8	0.019	20	1.65	15.2	0.076	M1223-ND	1.81	1.78	1.76	PM3604-5-B
8	3.00	5.8	0.024	32	1.50	23.2	0.096	M1224-ND	1.81	1.78	1.76	PM3604-8-B
10	2.70	7.3	0.028	40	1.35	29.2	0.11	M1225-ND	1.81	1.78	1.76	PM3604-10-B
15	2.20	11.0	0.041	60	1.10	44.0	0.16	M1226-ND	1.81	1.78	1.76	PM3604-15-B
20	2.02	14.2	0.049	80	1.01	56.8	0.20	M1227-ND	1.81	1.78	1.76	PM3604-20-B
25	1.91	17.0	0.054	100	0.96	68.0	0.22	M1228-ND	1.81	1.78	1.76	PM3604-25-B
33	1.60	23.1	0.078	132	0.80	92.4	0.31	M1229-ND	1.81	1.78	1.76	PM3604-33-B
50	1.28	35.5	0.12	200	0.64	142.0	0.48	M1230-ND	1.81	1.78	1.76	PM3604-50-B
68	1.19	46.2	0.14	272	0.60	184.8	0.56	M1231-ND	1.81	1.78	1.76	PM3604-68-B
100	0.98	68.0	0.21	400	0.49	272.0	0.84	M1232-ND	2.45	2.42	2.40	PM3604-100-B
150	0.78	103.5	0.32	600	0.39	414.0	1.28	M1233-ND	2.45	2.42	2.40	PM3604-150-B
200	0.65	140.0	0.47	800	0.33	560.0	1.88	M1234-ND	2.45	2.42	2.40	PM3604-200-B
250	0.60	172.5	0.53	1000	0.30	690.0	2.12	M1235-ND	2.45	2.42	2.40	PM3604-250-B
300	0.52	213.0	0.73	1200	0.26	852.0	2.92	M1236-ND	2.45	2.42	2.40	PM3604-300-B

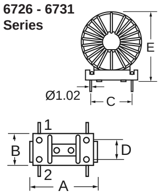
High Current Toroid Inductors

5700 Series

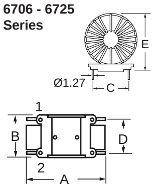


Leads tinned to within 1.57 of body

6701 - 6705 & 6726 - 6731 Series



6706 - 6725 Series

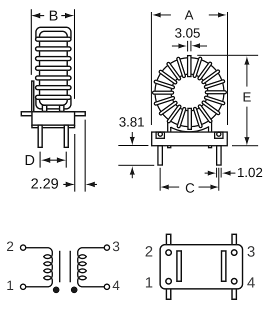


L (µH) ±15%	I,dc Max. Amps	R,dc Max. Ohms	Dimensions (mm) A Max.	B Max.	C Min.	Lead Ø Nom. (mm)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
5700 Series										
10	11.00	.008	22.23	11.10	4.75	1.63	M5701-ND	8.63	8.05	5701
25	5.50	.014	22.23	11.10	4.75	1.02	M5702-ND	8.63	8.05	5702
125	2.75	.12	22.23	11.10	4.75	.51	M5703-ND	8.63	8.05	5703
275	2.00	.24	22.23	11.10	4.75	.41	M5704-ND	8.63	8.05	5704
450	1.50	.49	22.23	11.10	4.75	.30	M5705-ND	9.30	8.66	5705
25	9.00	.012	28.58	14.27	7.92	1.63	M5706-ND	9.30	8.66	5706
75	5.00	.04	28.58	14.27	7.92	.91	M5707-ND	9.30	8.66	5707
400	2.25	.33	28.58	14.27	7.92	.46	M5708-ND	9.30	8.66	5708
800	1.75	.64	28.58	14.27	7.92	.38	M5709-ND	9.30	8.66	5709
1000	1.50	.98	28.58	14.27	7.92	.30	M5710-ND	9.30	8.66	5710
50	9.50	.012	31.75	15.88	9.52	1.63	M5711-ND	10.61	9.89	5711
150	4.75	.046	31.75	15.88	9.52	.91	M5712-ND	10.61	9.89	5712
700	2.25	.42	31.75	15.88	9.52	.46	M5713-ND	10.61	9.89	5713
1250	1.75	.85	31.75	15.88	9.52	.38	M5714-ND	10.61	9.89	5714
1600	1.50	1.27	31.75	15.88	9.52	.30	M5715-ND	10.61	9.89	5715
125	7.75	.032	46.02	19.05	19.05	1.63	M5716-ND	15.94	14.85	5716
500	4.00	.15	46.02	19.05	19.05	.81	M5717-ND	15.94	14.85	5717
1100	2.50	.33	46.02	19.05	19.05	.64	M5718-ND	15.94	14.85	5718
2250	1.75	.92	46.02	19.05	19.05	.46	M5719-ND	15.94	14.85	5719
4500	1.25	2.64	46.02	19.05	19.05	.30	M5720-ND	15.94	14.85	5720
250	8.00	.041	53.98	23.80	15.88	1.57	M5721-ND	18.58	17.31	5721
900	3.75	.175	53.98	23.80	15.88	.81	M5722-ND	18.58	17.31	5722
1800	2.50	.55	53.98	23.80	15.88	.58	M5723-ND	18.58	17.31	5723
4000	1.75	1.16	53.98	23.80	15.88	.46	M5724-ND	19.91	18.55	5724
8000	1.00	3.34	53.98	23.80	15.88	.30	M5725-ND	19.91	18.55	5725
25	2.50	.040	13.97	5.59	3.81	.51	M5726-ND	8.00	7.45	5726
35	2.50	.035	17.78	8.13	3.81	.64	M5727-ND	8.00	7.45	5727
50	2.50	.060	19.05	8.13	3.81	.51	M5728-ND	8.00	7.45	5728
100	2.50	.080	21.59	9.14	5.08	.51	M5729-ND	8.00	7.45	5729
70	3.00	.050	21.59	9.14	5.08	.64	M5730-ND	8.57	7.98	5730
40	4.00	.025	21.59	9.14	5.08	.81	M5731-ND	8.00	7.45	5731

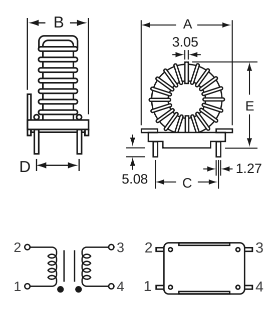
L (µH) ±15%	I,dc Max. Amps	R,dc Max. Ohms	Dimensions (mm) A Max.	B Max.	C ± .38	D ± .38	E Max.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
6700 Series											
10	11.00	.008	22.23	10.77	15.24	6.35	25.40	M5732-ND	11.08	10.33	6701
25	5.50	.014	22.23	10.79	15.24	6.35	25.40	M5733-ND	11.08	10.33	6702
125	2.75	.12	22.23	10.79	15.24	6.35	25.40	M5734-ND	11.08	10.33	6703
275	2.00	.24	22.23	10.79	15.24	6.35	25.40	M5735-ND	11.08	10.33	6704
450	1.50	.49	22.23	10.79	15.24	6.35	25.40	M5736-ND	11.08	10.33	6705
25	9.00	.012	28.58	15.24	20.32	10.16	31.75	M5737-ND	12.00	11.18	6706
75	5.00	.04	28.58	15.24	20.32	10.16	31.75	M5738-ND	12.00	11.18	6707
400	2.25	.33	28.58	15.24	20.32	10.16	31.75	M5739-ND	12.00	11.18	6708
1000	1.50	.98	28.58	15.24	20.32	10.16	31.75	M5741-ND	12.00	11.18	6710
50	9.50	.012	31.75	20.32	22.86	15.24	34.93	M5742-ND	13.14	12.24	6711
150	4.75	.046	31.75	20.32	22.86	15.24	34.93	M5743-ND	13.14	12.24	6712
700	2.25	.42	31.75	20.32	22.86	15.24	34.93	M5744-ND	13.14	12.24	6713
1250	1.75	.85	31.75	20.32	22.86	15.24	34.93	M5745-ND	13.14	12.24	6714
1600	1.50	1.27	31.75	20.32	22.86	15.24	34.93	M5746-ND	13.14	12.24	6715
125	7.75	.032	46.02	22.86	30.48	17.78	49.53	M5747-ND	15.53	14.47	6716
500	4.00	.15	46.02	22.86	30.48	17.78	49.53	M5748-ND	15.53	14.47	6717
1100	2.50	.33	46.02	22.86	30.48	17.78	49.53	M5749-ND	15.53	14.47	6718
2250	1.75	.92	46.02	22.86	30.48	17.78	49.53	M5750-ND	15.53	14.47	6719
4500	1.25	2.64	46.02	22.86	30.48	17.78	49.53	M5751-ND	18.28	17.03	6720
250	8.00	.041	53.98	27.94	38.10	22.86	57.15	M5752-ND	18.28	17.03	6721
900	3.75	.175	53.98	27.94	38.10	22.86	57.15	M5753-ND	21.13	19.69	6722
1800	2.50	.55	53.98	27.94	38.10	22.86	57.15	M5754-ND	21.13	19.69	6723
4000	1.75	1.16	53.98	27.94	38.10	22.86	57.15	M5755-ND	21.13	19.69	6724
8000	1.00	3.34	53.98	27.94	38.10	22.86	57.15	M5756-ND	21.13	19.69	6725
25	2.50	.040	13.97	10.79	15.24	6.35	25.40	M5757-ND	12.11	11.28	6726
35	2.50	.035	17.78	10.79	15.24	6.35	25.40	M5758-ND	12.11	11.28	6727
50	2.50	.060	19.05	10.79	15.24	6.35	25.40	M5759-ND	12.11	11.28	6728
100	2.50	.080	21.59	10.79	15.24	6.35	25.40	M5760-ND	12.11	11.28	6729
70	3.00	.050	21.59	10.79	15.24	6.35	25.40	M5761-ND	12.11	11.28	6730
40	4.00	.025	21.59	10.79	15.24	6.35	25.40	M5762-ND	12.11	11.28	6731

Common Mode Choke with Header — 8100 Series

8101-8103 Series



8104-8121 Series

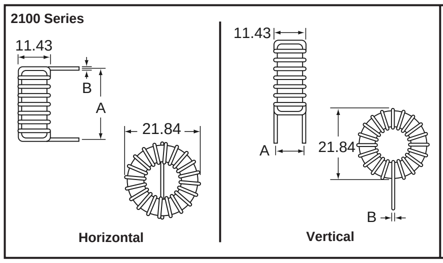


L (mH) Min. @ 1KHz	I Max. (A)	R,dc Max. Ohms	Dimensions (mm) A Max.	B ±0.01	C ±0.015	D ±0.015	E Max.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
4	1.7	0.173	19.30	10.79	15.24	6.35	22.86	M9836-ND	6.07	5.66	8101
2.5	2.4	0.09	19.30	10.79	15.24	6.35	22.86	M9837-ND	6.07	5.66	8102
1	4.8	0.022	19.30	10.79	15.24	6.35	22.86	M9838-ND	6.07	5.66	8103
10	2.4	0.17	30.48	15.24	20.32	10.16	30.48	M9839-ND	9.54	8.89	8104
7	2.8	0.12	30.48	15.24	20.32	10.16	30.48	M9840-ND	9.54	8.89	8105
5	3.7	0.07	30.48	15.24	20.32	10.16	30.48	M9841-ND	9.54	8.89	8106
2	6.6	0.022	30.48	15.24	20.32	10.16	30.48	M9842-ND	9.54	8.89	8107
1	10	0.01	30.48	15.24	20.32	10.16	30.48	M9843-ND	9.54	8.89	8108
30	2.3	0.33	34.29	20.32	22.86	15.24	36.83	M9844-ND	14.33	13.35	8109
20	2.9	0.21	34.29	20.32	22.86	15.24	36.83	M9845-ND	14.33	13.35	8110
12	4	0.11	34.29	20.32	22.86	15.24	36.83	M9846-ND	14.33	13.35	8111
8	5.6	0.055	34.29	20.32	22.86	15.24	36.83	M9847-ND	14.33	13.35	8112
5	8.9	0.022	36.83	20.32	22.86	15.24	38.10	M9848-ND	14.33	13.35	8113
2.5	12.5	0.011	36.83	20.32	22.86	15.24	38.10	M9849-ND	14.33	13.35	8114
1.2	16	0.006	38.10	20.32	22.86	15.24	38.86	M9850-ND	14.33	13.35	8115
50	2.3	0.45	39.37	20.32	22.86	15.24	41.91	M9851-ND	19.07	17.77	8116
36	2.9	0.3	39.37	20.32	22.86	15.24	41.91	M9852-ND	19.07	17.77	8117
7.3	9.3	0.032	41.91	20.32	22.86	15.24	41.91	M9853-ND	19.07	17.77	8118
4	14.5	0.012	43.18	22.86	30.48	17.78	41.91	M9854-ND	19.07	17.77	8119
2.4	17	0.008	43.18	22.86	30.48	17.78	41.91	M9855-ND	19.07	17.77	8120
1	20	0.007	43.18	22.86	30.48	17.78	41.91	M9856-ND	19.07	17.77	8121

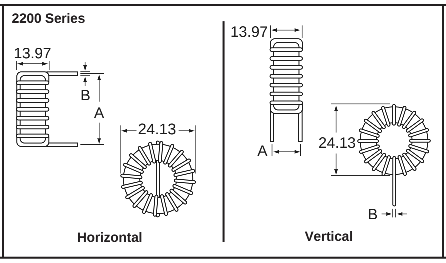
J.W.Miller
MAGNETICS

High Current Toroid Inductor

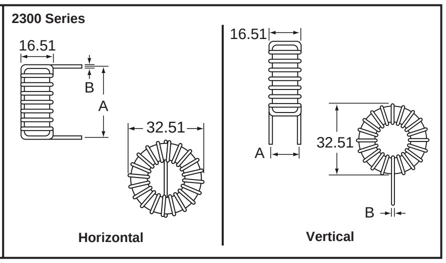
2100 Series



2200 Series



2300 Series



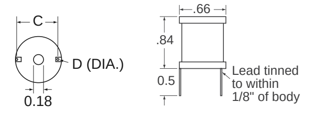
L (µH) ±15% @ 1KHz	I, dc (A)	L (µH) ±15% @ I Rated	R,dc Max. Ohms	Dimensions (mm) A Max.	B Min.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
2100 Series — Horizontal									
10	10.8	6.3	0.006	19.56	1.35	M9764-ND	3.10	2.89	2101-H
12	10.3	7.4	0.007	19.56	1.35	M9765-ND	3.10	2.89	2102-H
15	7.7	10.2	0.012	19.30	1.07	M9766-ND	3.10	2.89	2103-H
18	7.4	11.9	0.013	19.30	1.07	M9767-ND	3.10	2.89	2104-H
22	7.0	14.2	0.015	19.30	1.07	M9768-ND	3.10	2.89	2105-H
27	5.3	19.1	0.026	19.05	0.86	M9769-ND	3.10	2.89	2106-H
33	5.0	22.8	0.029	19.05	0.86	M9770-ND	3.10	2.89	2107-H
39	4.8	26.4	0.032	19.05	0.86	M9771-ND	3.10	2.89	2108-H
47	3.6	34.7	0.055	19.05	0.69	M9772-ND	3.10	2.89	2109-H
56	3.4	40.6	0.060	19.05	0.69	M9773-ND	3.10	2.89	2110-H
68	3.3	48.3	0.067	19.05	0.69	M9774-ND	3.10	2.89	2111-H
100	2.4	75.2	0.13	18.80	0.56	M9775-ND	3.10	2.89	2112-H
120	2.2	88.5	0.15	18.80	0.56	M9776-ND	3.10	2.89	2113-H
150	3.4	84.3	0.062	20.07	0.86	M9777-ND	3.10	2.89	2114-H
180	2.6	113.1	0.11	19.56	0.69	M9778-ND	3.10	2.89	2115-H
220	2.4	134.4	0.12	19.56	0.69	M9779-ND	3.10	2.89	2116-H
270	1.8	181.6	0.21	19.30	0.56	M9780-ND	3.51	3.27	2117-H
330	1.7	216.3	0.23	19.30	0.56	M9781-ND	3.51	3.27	2118-H
390	1.7	250.1	0.25	19.30	0.56	M9782-ND	3.51	3.27	2119-H
470	1.6	293.8	0.28	19.30	0.56	M9783-ND	3.51	3.27	2120-H
560	1.5	341.5	0.30	20.07	0.56	M9784-ND	3.51	3.27	2121-H
680	1.4	403.2	0.33	20.07	0.56	M9785-ND	3.51	3.27	2122-H
820	1.4	472.8	0.37	20.07	0.56	M9786-ND	3.51	3.27	2123-H
1000	1.3	559.2	0.40	20.57	0.56	M9787-ND	3.51	3.27	2124-H
2200 Series — Horizontal									
10	12.5	6.7	0.007	22.35	1.35	M9788-ND	3.92	3.65	2201-H
12	12.0	7.9	0.008	22.35	1.35	M9789-ND	3.92	3.65	2202-H
15	11.3	9.6	0.008	22.35	1.35	M9790-ND	3.92	3.65	2203-H
18	10.8	11.3	0.009	22.35	1.35	M9791-ND	3.92	3.65	2204-H
22	10.3	13.4	0.010	22.35	1.35	M9792-ND	3.92	3.65	2205-H
27	9.8	16.0	0.011	22.35	1.35	M9793-ND	3.92	3.65	2206-H
33	7.4	21.6	0.020	22.10	1.07	M9794-ND	3.92	3.65	2207-H
39	7.1	25.0	0.022	22.10	1.07	M9795-ND	3.92	3.65	2208-H
47	6.7	29.3	0.024	22.10	1.07	M9796-ND	3.92	3.65	2209-H
56	6.4	34.1	0.026	22.10	1.07	M9797-ND	3.92	3.65	2210-H
68	4.9	45.7	0.046	21.84	0.86	M9798-ND	3.92	3.65	2211-H
100	4.4	64.0	0.056	21.84	0.86	M9799-ND	3.92	3.65	2212-H
120	3.3	84.4	0.098	21.84	0.69	M9800-ND	3.92	3.65	2213-H
150	3.1	102.7	0.11	21.84	0.69	M9801-ND	3.92	3.65	2214-H
180	3.8	105.9	0.075	22.86	0.86	M9802-ND	3.92	3.65	2215-H
220	3.6	125.6	0.083	22.86	0.86	M9803-ND	3.92	3.65	2216-H
270	3.4	149.4	0.092	22.86	0.86	M9804-ND	4.32	4.03	2217-H
330	3.3	176.8	0.10	22.86	0.86	M9805-ND	4.32	4.03	2218-H
390	2.5	235.3	0.18	22.35	0.69	M9806-ND	4.32	4.03	2219-H
470	2.3	275.9	0.19	22.35	0.69	M9807-ND	4.32	4.03	2220-H
560	2.2	320.1	0.21	22.35	0.69	M9808-ND	4.32	4.03	2221-H
680	2.1	377.2	0.23	23.11	0.69	M9809-ND	4.32	4.03	2222-H
820	2.0	441.5	0.26	23.11	0.69	M9810-ND	4.32	4.03	2223-H
1000	1.9	521.3	0.28	23.11	0.69	M9811-ND	4.32	4.03	2224-H
2300 Series — Horizontal									
10	20.0	6.7	0.005	29.97	1.68	M9812-ND	4.73	4.41	2301-H
12	19.1	7.8	0.005	29.97	1.68	M9813-ND	4.73	4.41	2302-H
15	18.0	9.5	0.006	29.97	1.68	M9814-ND	4.73	4.41	2303-H
18	17.2	11.1	0.006	29.97	1.68	M9815-ND	4.73	4.41	2304-H
22	16.4	13.2	0.007	29.97	1.68	M9816-ND	4.73	4.41	2305-H
27	15.6	15.7	0.008	29.97	1.68	M9817-ND	4.73	4.41	2306-H
33	11.7	21.3	0.013	28.96	1.35	M9818-ND	4.73	4.41	2307-H
39	11.2	24.7	0.014	28.96	1.35	M9819-ND	4.73	4.41	2308-H
47	10.7	29.0	0.016	28.96	1.35	M9820-ND	4.73	4.41	2309-H
56	10.2	33.7	0.017	28.96	1.35	M9821-ND	4.73	4.41	2310-H
68	7.7	45.2	0.030	28.70	1.07	M9822-ND	4.73	4.41	2311-H
100	7.0	63.1	0.037	28.70	1.07	M9823-ND	4.73	4.41	2312-H
120	6.7	73.9	0.040	28.70	1.07	M9824-ND	4.73	4.41	2313-H
150	5.0	101.4	0.071	28.45	0.86	M9825-ND	4.73	4.41	2314-H
180	4.8	118.9	0.078	28.45	0.86	M9826-ND	4.73	4.41	2315-H
220	5.8	123.8	0.054	29.72	1.07	M9827-ND	4.73	4.41	2316-H
270	5.5	147.2	0.060	29.72	1.07	M9828-ND	4.73	4.41	2317-H
330	5.2	174.1	0.067	29.72	1.07	M9829-ND	4.73	4.41	2318-H
390	5.0	200.2	0.072	29.72	1.07	M9830-ND	4.73	4.41	2319-H
470	3.8	271.4	0.13	29.46	0.86	M9831-ND	4.73	4.41	2320-H
560	3.6	314.8	0.14	29.46	0.86	M9832-ND	4.73	4.41	2321-H
680	3.4	370.7	0.15	29.46	0.86	M9833-ND	4.73	4.41	2322-H
820	2.6	500.9	0.27	28.96	0.69	M9834-ND	4.73	4.41	2323-H
1000	2.4	593.6	0.30	28.96	0.69	M9835-ND	4.73	4.41	2324-H

L (µH) ±15% @ 1KHz	I, dc (A)	L (µH) ±15% @ I Rated	R,dc Max. Ohms	Dimensions (mm) A Max.	B Min.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
2100 Series — Vertical									
10	10.8	6.3	0.006	8.64	1.35	M9857-ND	3.10	2.89	2101-V
12	10.3	7.4	0.007	8.64	1.35	M9858-ND	3.10	2.89	2102-V
15	7.7	10.2	0.012	8.38	1.07	M9859-ND	3.10	2.89	2103-V
18	7.4	11.9	0.013	8.38	1.07	M9860-ND	3.10	2.89	2104-V
22	7.0	14.2	0.015	8.38	1.07	M9861-ND	3.10	2.89	2105-V
27	5.3	19.1	0.026	8.13	0.86	M9862-ND	3.10	2.89	2106-V
33	5.0	22.8	0.029	8.13	0.86	M9863-ND	3.10	2.89	2107-V
39	4.8	26.4	0.032	8.13	0.86	M9864-ND	3.10	2.89	2108-V
47	3.6	34.7	0.055	7.87	0.69	M9865-ND	3.10	2.89	2109-V
56	3.4	40.6	0.060	7.87	0.69	M9866-ND	3.10	2.89	2110-V
68	3.3	48.3	0.067	7.87	0.69	M9867-ND	3.10	2.89	2111-V
100	2.4	75.2	0.13	7.87	0.56	M9868-ND	3.10	2.89	2112-V
120	2.2	88.5	0.15	7.87	0.56	M9869-ND	3.10	2.89	2113-V
150	3.4	84.3	0.062	8.89	0.86	M9870-ND	3.10	2.89	2114-V
180	2.6	113.1	0.11	8.64	0.69	M9871-ND	3.10	2.89	2115-V
220	2.4	134.4	0.12	8.64	0.69	M9872-ND	3.10	2.89	2116-V
270	1.8	181.6	0.21	8.38	0.56	M9873-ND	3.51	3.27	2117-V
330	1.7	216.3	0.23	8.38	0.56	M9874-ND	3.51	3.27	2118-V
390	1.7	250.1	0.25	8.38	0.56	M9875-ND	3.51	3.27	2119-V
470	1.6	293.8	0.28	8.89	0.56	M9876-ND	3.51	3.27	2120-V
560	1.5	341.5	0.30	8.89	0.56	M9877-ND	3.51	3.27	2121-V
680	1.4	403.2	0.33	8.89	0.56	M9878-ND	3.51	3.27	2122-V
820	1.4	472.8	0.37	8.89	0.56	M9879-ND	3.51	3.27	2123-V
1000	1.3	559.2	0.40	9.40	0.56	M9880-ND	3.51	3.27	2124-V
2200 Series — Vertical									
10	12.5	6.7	0.007	11.68	1.35	M9881-ND	3.92	3.65	2201-V
12	12.0	7.9	0.008	11.68	1.35	M9882-ND	3.92	3.65	2202-V
15	11.3	9.6	0.008	11.68	1.35	M9883-ND	3.92	3.65	2203-V
18	10.8	11.3	0.009	11.68	1.35	M9884-ND	3.92	3.65	2204-V
22	10.3	13.4	0.010	11.68	1.35	M9885-ND	3.92	3.65	2205-V
27	9.8	16.0	0.011	11.68	1.35	M9886-ND	3.92	3.65	2206-V
33	7.4	21.6	0.020	11.43	1.07	M9887-ND	3.92	3.65	2207-V
39	7.1	25.0	0.022	11.43	1.07	M9888-ND	3.92	3.65	2208-V
47	6.7	29.3	0.024	11.43	1.07	M9889-ND	3.92	3.65	2209-V
56	6.4	34.1	0.026	11.43	1.07	M9890-ND	3.92	3.65	2210-V
68	4.9	45.7	0.046	11.18	0.86	M9891-ND	3.92	3.65	2211-V
100	4.4	64.0	0.056	11.18	0.86	M9892-ND	3.92	3.65	2212-V
120	3.3	84.4	0.098	11.18	0.69	M9893-ND	3.92	3.65	2213-V
150	3.1	102.7	0.11	11.18	0.69	M9894-ND	3.92	3.65	2214-V
180	3.8	105.9	0.075	12.19	0.86	M9895-ND	3.92	3.65	2215-V
220	3.6	125.6	0.083	12.19	0.86	M9896-ND	3.92	3.65	2216-V
270	3.4	149.4	0.092	12.19	0.86	M9897-ND	4.32	4.03	2217-V
330	3.3	176.8	0.10	12.19	0.86	M9898-ND	4.32	4.03	2218-V
390	2.5	235.3	0.18	11.68	0.69	M9899-ND	4.32	4.03	2219-V
470	2.3	275.9	0.19	11.68	0.69	M9900-ND	4.32	4.03	2220-V
560	2.2	320.1	0.21	11.68	0.69	M9901-ND	4.32	4.03	2221-V
680	2.1	377.2	0.23	12.45	0.69	M9902-ND	4.32	4.03	2222-V
820	2.0	441.5	0.26	12.45	0.69	M9903-ND	4.32	4.03	2223-V
1000	1.9	521.3	0.28	12.45	0.69	M9904-ND	4.32	4.03	2224-V
2300 Series — Vertical									
10	20.0	6.7	0.005	14.22	1.68	M9905-ND	4.73	4.41	2301-V
12	19.1	7.8	0.005	14.22	1.68	M9906-ND	4.73	4.41	2302-V
15	18.0	9.5	0.006	14.22	1.68	M9907-ND	4.73	4.41	2303-V
18	17.2	11.1	0.006	14.22	1.68	M9908-ND	4.73	4.41	2304-V
22	16.4	13.2	0.007	14.22	1.68	M9909-ND	4.73	4.41	2305-V
27	15.6	15.7	0.008	14.22	1.68	M9910-ND	4.73	4.41	2306-V
33	11.7	21.3	0.013	13.46	1.35	M9911-ND	4.73	4.41	2307-V
39	11.2	24.7	0.014	13.46	1.35	M9912-ND	4.73	4.41	2308-V
47	10.7	29.0	0.016	13.46	1.35	M9913-ND	4.73	4.41	2309-V
56	10.2	33.7	0.017	13.46	1.35	M9914-ND	4.73	4.41	2310-V
68	7.7	45.2	0.030	13.21	1.07	M9915-ND	4.73	4.41	2311-V
100	7.0	63.1	0.037	13.21	1.07	M9916-ND	4.73	4.41	2312-V
120	6.7	73.9	0.040	13.21	1.07	M9917-ND	4.73	4.41	2313-V
150	5.0	101.4	0.071	12.95	0.86	M9918-ND	4.73	4.41	2314-V
180	4.8	118.9	0.078	12.95	0.86	M9919-ND	4.73	4.41	2315-V
220	5.8	123.8	0.054	14.22	1.07	M9920-ND	4.73	4.41	2316-V
270	5.5	147.2	0.060	14.22	1.07	M9921-ND	4.73	4.41	2317-V
330	5.2	174.1	0.067	14.22	1.07	M9922-ND	4.73	4.41	2318-V
390	5.0	200.2	0.072	14.22	1.07	M9923-ND	4.73	4.41	2319-V
470	3.8	271.4	0.13	13.72	0.86	M9924-ND	4.73	4.41	2320-V
560	3.6	314.8	0.14	13.72	0.86	M9925-ND	4.73	4.41	2321-V
680	3.4	370.7	0.15	13.72	0.86	M9926-ND	4.73	4.41	2322-V
820	2.6	500.9	0.27	13.46	0.69	M9927-ND	4.73	4.41	2323-V
1000	2.4	593.6	0.30	13.46	0.69	M9928-ND	4.73	4.41	2324-V

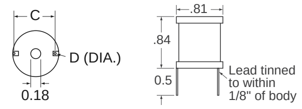
High Current RF Chokes

1110, 1120, 1130 and 1140 Series

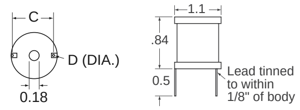
1110 Series



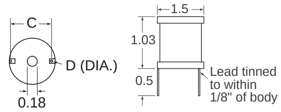
1120 Series



1130 Series



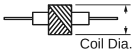
1140 Series



L (uH) ±20% @ 1KHz	DCR (Ω) Max.	I,dc (A)	Dimension (In.) C Approx.	Dimension (In.) D Nom.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	J.W. Miller Part No.
RF Chokes 1110 Series 10%									
10.00	0.01	9.00	0.55	0.05	M6220-ND	2.90	2.71	2.61	1110-100K
15.00	0.02	7.20	0.53	0.05	M6222-ND	2.90	2.71	2.61	1110-150K
22.00	0.02	5.50	0.53	0.05	M6224-ND	2.90	2.71	2.61	1110-220K
47.00	0.06	2.80	0.53	0.04	M6228-ND	2.90	2.71	2.61	1110-470K
68.00	0.08	2.80	0.50	0.03	M6230-ND	2.90	2.71	2.61	1110-680K
82.00	0.08	2.80	0.50	0.03	M6231-ND	2.90	2.71	2.61	1110-820K
100.00	0.10	2.80	0.50	0.03	M6232-ND	2.90	2.71	2.61	1110-101K
120.00	0.13	2.00	0.50	0.03	M6233-ND	2.90	2.71	2.61	1110-121K
150.00	0.18	1.60	0.50	0.03	M6234-ND	2.90	2.71	2.61	1110-151K
220.00	0.24	1.60	0.50	0.03	M6236-ND	2.90	2.71	2.61	1110-221K
330.00	0.34	1.30	0.47	0.02	M6238-ND	2.90	2.71	2.61	1110-331K
390.00	0.46	1.00	0.47	0.02	M6239-ND	2.90	2.71	2.61	1110-391K
560.00	0.70	0.80	0.47	0.02	M6241-ND	2.90	2.71	2.61	1110-561K
RF Chokes 1120 Series 20%									
1.00	0.00	11.40	0.63	0.07	M6242-ND	3.33	3.10	3.00	1120-1R0M
4.70	0.01	11.40	0.63	0.06	M6250-ND	3.33	3.10	3.00	1120-4R7M
RF Chokes 1120 Series 10%									
10.00	0.01	11.40	0.63	0.06	M6254-ND	3.33	3.10	3.00	1120-100K
47.00	0.04	5.50	0.62	0.05	M6262-ND	3.33	3.10	3.00	1120-470K
68.00	0.05	4.80	0.62	0.04	M6264-ND	3.33	3.10	3.00	1120-680K
82.00	0.06	4.80	0.62	0.04	M6265-ND	3.33	3.10	3.00	1120-820K
100.00	0.08	4.00	0.62	0.04	M6266-ND	3.33	3.10	3.00	1120-101K
150.00	0.10	4.00	0.62	0.03	M6268-ND	3.33	3.10	3.00	1120-151K
220.00	0.15	2.80	0.62	0.03	M6270-ND	3.33	3.10	3.00	1120-221K
270.00	0.21	2.00	0.60	0.03	M6271-ND	3.33	3.10	3.00	1120-271K
470.00	0.36	1.60	0.60	0.03	M6274-ND	3.33	3.10	3.00	1120-471K
1000.00	0.82	1.00	0.60	0.02	M6278-ND	3.33	3.10	3.00	1120-102K
RF Chokes 1130 Series 20%									
1.20	0.00	21.00	0.80	0.08	M6284-ND	5.13	4.78	4.62	1130-1R2M
2.20	0.00	21.00	0.80	0.08	M6287-ND	5.13	4.78	4.62	1130-2R2M

L (uH) ±20% @ 1KHz	DCR (Ω) Max.	I,dc (A)	Dimension (In.) C Approx.	Dimension (In.) D Nom.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	J.W. Miller Part No.
RF Chokes 1130 Series 10%									
33.00	0.02	13.50	0.79	0.06	M6301-ND	5.13	4.78	4.62	1130-330K
39.00	0.02	11.40	0.79	0.06	M6302-ND	5.13	4.78	4.62	1130-390K
82.00	0.03	9.00	0.79	0.05	M6306-ND	5.13	4.78	4.62	1130-820K
100.00	0.03	9.00	0.79	0.05	M6307-ND	5.13	4.78	4.62	1130-101K
120.00	0.05	7.20	0.79	0.05	M6308-ND	5.13	4.78	4.62	1130-121K
220.00	0.08	5.50	0.77	0.04	M6311-ND	5.13	4.78	4.62	1130-221K
470.00	0.19	4.00	0.77	0.04	M6315-ND	5.13	4.78	4.62	1130-471K
560.00	0.21	4.00	0.77	0.03	M6316-ND	5.13	4.78	4.62	1130-561K
680.00	0.26	2.80	0.77	0.03	M6317-ND	5.13	4.78	4.62	1130-681K
1500.00	0.52	2.00	0.75	0.03	M6321-ND	5.13	4.78	4.62	1130-152K
3300.00	1.27	1.30	0.75	0.02	M6325-ND	5.13	4.78	4.62	1130-332K
4700.00	1.86	1.00	0.75	0.02	M6327-ND	5.13	4.78	4.62	1130-472K
RF Chokes 1140 Series 10%									
18.00	0.01	27.00	1.15	0.08	M6340-ND	10.63	9.91	9.57	1140-180K
47.00	0.02	14.40	1.15	0.07	M6345-ND	10.63	9.91	9.57	1140-470K
68.00	0.02	14.40	1.15	0.06	M6347-ND	10.63	9.91	9.57	1140-680K
100.00	0.03	14.40	1.15	0.06	M6349-ND	10.63	9.91	9.57	1140-101K
120.00	0.03	14.40	1.15	0.06	M6350-ND	10.63	9.91	9.57	1140-121K
220.00	0.05	11.40	1.15	0.05	M6353-ND	10.63	9.91	9.57	1140-221K
330.00	0.07	11.40	1.15	0.05	M6355-ND	10.63	9.91	9.57	1140-331K
820.00	0.15	7.20	1.15	0.04	M6360-ND	10.63	9.91	9.57	1140-821K
1200.00	0.23	5.50	1.14	0.04	M6362-ND	10.63	9.91	9.57	1140-122K
1500.00	0.32	4.50	1.14	0.04	M6363-ND	10.63	9.91	9.57	1140-152K
2200.00	0.49	4.00	1.10	0.03	M6365-ND	10.63	9.91	9.57	1140-222K
3900.00	0.85	2.80	1.10	0.03	M6368-ND	10.63	9.91	9.57	1140-392K
4700.00	1.14	2.00	1.12	0.03	M6369-ND	10.63	9.91	9.57	1140-472K
10,000.00	2.76	1.30	1.11	0.02	M6373-ND	10.63	9.91	9.57	1140-103K
15,000.00	3.39	1.30	1.10	0.02	M6375-ND	10.63	9.91	9.57	1140-153K

Coiled RF Chokes

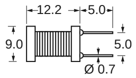


L (µH) 5%	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	Coil Dia. In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
Iron Core								
1.0†	41	25	2041	.165 (4.19)	M7010-ND	1.03	.96	70F106AI
2.2††	43	7.9	1132	.16 (4.06)	M72R2-ND	1.25	1.17	70F226AI
3.3††	40	7.9	912	.15 (3.81)	M73R3-ND	1.25	1.17	70F336AI
4.7††	43	7.9	661	.15 (3.81)	M74R7-ND	1.25	1.17	70F476AI
6.8††	40	7.9	566	.15 (3.81)	M76R8-ND	1.25	1.17	70F686AI
10††	36	7.9	277	.16 (4.06)	M7100-ND	1.52	1.42	70F105AI
22	51	2.5	229	.165 (4.19)	M7220-ND	1.52	1.42	70F225AI
33	50	2.5	208	.17 (4.32)	M7330-ND	1.52	1.42	70F335AI
47	44	2.5	188	.175 (4.44)	M7470-ND	1.52	1.42	70F475AI
68	42	2.5	169	.18 (4.57)	M7680-ND	1.52	1.42	70F685AI
100	25	2.5	139	.165 (4.19)	M7101-ND	1.65	1.55	70F104AI
220	46	.79	114	.17 (4.32)	M7221-ND	1.65	1.55	70F224AI
330	41	.79	103	.175 (4.44)	M7331-ND	1.65	1.55	70F334AI
470	35	.79	95	.185 (4.70)	M7471-ND	1.65	1.55	70F474AI
680	37	.79	87	.2 (5.08)	M7681-ND	1.74	1.63	70F684AI
1000	30	.79	79	.225 (5.71)	M7102-ND	1.74	1.63	70F103AI
2200	40	.25	57	.24 (6.10)	M7222-ND	1.80	1.68	70F223AI
3300	52	.25	53	.26 (6.60)	M7332-ND	1.80	1.68	70F333AI
4700	49	.25	48	.285 (7.24)	M7472-ND	1.95	1.82	70F473AI
6800	51	.25	43	.31 (7.87)	M7682-ND	1.95	1.82	70F683AI
10,000	41	.25	38	.335 (8.51)	M7103-ND	1.85	1.73	70F102AI
22,000	50	.079	41	.33 (8.38)	M7223-ND	3.26	3.05	70F222AI
Ferrite Core								
33,000	61	.079	43	.353 (8.97)	M7333-ND	4.51	4.22	70F332AF
47,000	57	.079	38	.384 (9.75)	M7473-ND	4.51	4.22	70F472AF
68,000	57	.079	34	.415 (10.54)	M7683-ND	4.51	4.22	70F682AF
100,000	48	.079	29	.446 (11.33)	M7104-ND	3.10	2.90	70F101AF
220,000	51	.025	39	.54 (13.72)	M7224-ND	3.38	3.16	70F221AF
330,000	54	.025	34	.58 (14.73)	M7334-ND	3.76	3.52	70F331AF
470,000	55	.025	30	.615 (15.62)	M7474-ND	3.76	3.52	70F471AF

† 20%; †† 10% tolerance.

Radial Lead High Current RF Chokes

Parts finished with VWI rated sleeving.



L (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (A)	R,dc Max. Ohms	Digi-Key Part No.	Price Each 1	Price Each 10	J.W.Miller Part No.
1.0†	20	7.96	10	.013	M6001-ND	1.93	1.80	6000-1R0M
1.5†	20	7.96	8.5	.016	M6002-ND	1.93	1.80	6000-1R5M
2.2†	20	7.96	6.5	.021	M6003-ND	1.93	1.80	6000-2R2M
3.3†	20	7.96	5.5	.025	M6004-ND	1.93	1.80	6000-3R3M
4.7†	20	7.96	4.6	.030	M6005-ND	1.93	1.80	6000-4R7M
6.8†	20	7.96	4.1	.035	M6006-ND	1.93	1.80	6000-6R8M
10††	50	2.52	3.4	.045	M6007-ND	1.93	1.80	6000-100K
12††	50	2.52	3.1	.050	M6008-ND	1.93	1.80	6000-120K
15††	50	2.52	2.9	.056	M6009-ND	1.93	1.80	6000-150K
18††	40	2.52	2.66	.061	M6010-ND	1.93	1.80	6000-180K
22††	40	2.52	2.4	.070	M6011-ND	1.93	1.80	6000-220K
27††	40	2.52	2.22	.080	M6012-ND	1.93	1.80	6000-270K
33††	30	2.52	2.05	.090	M6013-ND	1.93	1.80	6000-330K
39††	30	2.52	1.85	.10	M6014-ND	1.93	1.80	6000-390K
47††	30	2.52	1.77	.16	M6015-ND	1.93	1.80	6000-470K
56††	30	2.52	1.48	.18	M6016-ND	1.93	1.80	6000-560K
68††	30	2.52	1.36	.21	M6017-ND	1.93	1.80	6000-680K
82††	30	2.52	1.3	.23	M6018-ND	1.93	1.80	6000-820K
100††	20	.796	1.4	.28	M6019-ND	1.93	1.80	6000-101K
120††	20	.796	1.25	.32	M6020-ND	1.93	1.80	6000-121K
150††	20	.796	1.15	.37	M6021-ND	1.93	1.80	6000-151K
180††	20	.796	1.08	.58	M6022-ND	1.93	1.80	6000-181K
220††	20	.796	1.0	.65	M6023-ND	1.93	1.80	6000-221K
270††	20	.796	.90	.75	M6024-ND	1.93	1.80	6000-271K
330††	20	.796	.78	.85	M6025-ND	1.93	1.80	6000-331K
390††	20	.796	.74	1.0	M6026-ND	1.93	1.80	6000-391K
470††	20	.796	.68	1.1	M6027-ND	1.93	1.80	6000-471K
560††	20	.796	.64	1.4	M6028-ND	1.93	1.80	6000-561K
680††	20	.796	.59	1.6	M6029-ND	1.93	1.80	6000-681K
820††	20	.796	.56	1.8	M6030-ND	1.93	1.80	6000-821K
1000††	50	.252	.51	2.9	M6031-ND	1.93	1.80	6000-102K

† 20%; †† 10% tolerance.

Wide-Band Chokes

Fig. 1

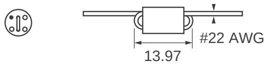


Fig. 2

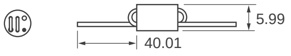


Fig. 3

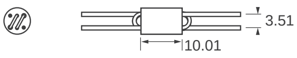
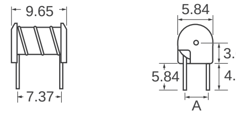


Fig.	No. of Turns	Min. Z (Ω)	Freq. (MHz)	Digi-Key Part No.	Price Each 1	Price Each 10	J.W.Miller Part No.
1	1 1/2	225 175	10 10	M2093-ND M2194-ND	1.37 1.25	1.29 1.17	FB20009-3B FB20019-4B
2	2 1/2	460 30	10 10	M2103-ND M2204-ND	1.25 1.25	1.17 1.17	FB20010-3B FB20020-4B
3	2 x 1 1/2	215 175	10 10	M2113-ND M2214-ND	1.37 1.25	1.29 1.17	FB20011-3B FB20021-4B

Molded Polypropylene RF Chokes



L (µH)	Dim. A (mm)	Q Min.	I, dc Max. (mA)	Digi-Key Part No.	Price Each 1	Price Each 10	J.W.Miller Part No.
Hollow Core							
.364	4.01	93	500	M7507-ND	1.35	1.27	75F397MPC

J.W.Miller
MAGNETICS

Molded RF Chokes

9230 Series Dimensions: Form Length: 6.35mm; Form Diameter: 2.41mm; Lead Length: 38.10mm; Leads: 24 AWG. Tolerance: ±10%.

9250 Series Dimensions: Form Length: 10.41mm; Form Diameter: 4.11mm; Lead Length: 36.53mm; Leads: 22 AWG. Tolerance: ±10%.

L (μH)	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	Coil Dia. In. (mm)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
Phenolic Core								
0.1	40	25.0	1100	.095 (2.41)	M9R10-ND	1.15	1.07	9230-94
0.15	38	25.0	1100	.095 (2.41)	M9R15-ND	1.06	.99	9230-00
0.22	33	25.0	935	.095 (2.41)	M9R22-ND	1.06	.99	9230-04
0.33	30	25.0	780	.095 (2.41)	M9R33-ND	1.06	.99	9230-08
0.39	30	25.0	640	.095 (2.41)	M9R39-ND	1.06	.99	9230-10
0.47	30	25.0	590	.095 (2.41)	M9R47-ND	1.06	.99	9230-12
0.68	28	25.0	450	.095 (2.41)	M9R68-ND	1.06	.99	9230-16
0.82	28	25.0	380	.095 (2.41)	M9R82-ND	1.06	.99	9230-18
1.0	25	25.0	350	.095 (2.41)	M9010-ND	1.06	.99	9230-20
Iron Core								
2.2	30	7.9	550	.095 (2.41)	M92R2-ND	1.44	1.35	9230-28
3.3	45	7.9	380	.095 (2.41)	M93R3-ND	1.44	1.35	9230-32
4.7	45	7.9	320	.095 (2.41)	M94R7-ND	1.44	1.35	9230-36
6.8	50	7.9	245	.095 (2.41)	M96R8-ND	1.62	1.52	9230-40
10.0	55	7.9	180	.095 (2.41)	M9100-ND	1.62	1.52	9230-44
22.0	50	2.5	190	.095 (2.41)	M9220-ND	1.65	1.55	9230-52
Ferrite Core								
33.0	45	2.5	187	.095 (2.41)	M9330-ND	1.76	1.65	9230-56
47.0	45	2.5	165	.095 (2.41)	M9470-ND	1.76	1.65	9230-60
68.0	50	2.5	135	.095 (2.41)	M9680-ND	1.76	1.65	9230-64
100.0	50	2.5	125	.095 (2.41)	M9101-ND	1.94	1.81	9230-68
220.0	30	0.79	73	.095 (2.41)	M9221-ND	1.94	1.81	9230-76
330.0	30	0.79	62	.095 (2.41)	M9331-ND	1.94	1.81	9230-80
470.0	30	0.79	50	.095 (2.41)	M9471-ND	1.94	1.81	9230-84
680.0	30	0.79	42	.095 (2.41)	M9681-ND	1.94	1.81	9230-88
1000.0	30	0.79	38	.095 (2.41)	M9102-ND	2.37	2.21	9230-92
Phenolic Core (Shielded)								
0.1	50	25.0	1790	.162 (4.11)	M9201-ND	2.76	2.59	9250-101
0.12	51	25.0	1530	.162 (4.11)	M9202-ND	2.76	2.59	9250-121
0.15	51	25.0	1470	.162 (4.11)	M9203-ND	2.76	2.59	9250-151
0.18	50	25.0	1300	.162 (4.11)	M9204-ND	2.76	2.59	9250-181
0.22	49	25.0	1100	.162 (4.11)	M9205-ND	2.76	2.59	9250-221
0.27	47	25.0	855	.162 (4.11)	M9206-ND	2.76	2.59	9250-271
0.33	46	25.0	780	.162 (4.11)	M9207-ND	2.76	2.59	9250-331
0.39	44	25.0	670	.162 (4.11)	M9208-ND	2.76	2.59	9250-391
0.47	44	25.0	565	.162 (4.11)	M9209-ND	2.76	2.59	9250-471
0.56	43	25.0	490	.162 (4.11)	M9210-ND	2.76	2.59	9250-561
0.68	42	25.0	420	.162 (4.11)	M9211-ND	2.76	2.59	9250-681
0.82	40	25.0	370	.162 (4.11)	M9212-ND	2.76	2.59	9250-821
Iron Core (Shielded)								
1.0	44	25.0	1070	.162 (4.11)	M9213-ND	2.89	2.70	9250-102
1.2	44	7.9	895	.162 (4.11)	M9214-ND	2.89	2.70	9250-122
1.5	44	7.9	815	.162 (4.11)	M9215-ND	2.89	2.70	9250-152
1.8	44	7.9	775	.162 (4.11)	M9216-ND	2.89	2.70	9250-182
2.2	44	7.9	650	.162 (4.11)	M9217-ND	2.89	2.70	9250-222
2.7	44	7.9	535	.162 (4.11)	M9218-ND	2.89	2.70	9250-272
3.3	44	7.9	480	.162 (4.11)	M9219-ND	2.89	2.70	9250-332
3.9	44	7.9	450	.162 (4.11)	M9222-ND	2.89	2.70	9250-392
4.7	44	7.9	380	.162 (4.11)	M9223-ND	2.89	2.70	9250-472
5.6	44	7.9	335	.162 (4.11)	M9224-ND	2.89	2.70	9250-562
6.8	50	7.9	280	.162 (4.11)	M9225-ND	2.89	2.70	9250-682
8.2	50	7.9	250	.162 (4.11)	M9226-ND	2.89	2.70	9250-822
10.0	50	7.9	220	.162 (4.11)	M9227-ND	2.89	2.70	9250-103
12.0	55	2.5	200	.162 (4.11)	M9228-ND	2.89	2.70	9250-123
Ferrite Core (Shielded)								
15.0	45	2.5	315	.162 (4.11)	M9229-ND	2.89	2.70	9250-153
18.0	45	2.5	300	.162 (4.11)	M9230-ND	3.48	3.25	9250-183
22.0	45	2.5	290	.162 (4.11)	M9231-ND	2.89	2.70	9250-223
27.0	45	2.5	260	.162 (4.11)	M9232-ND	3.48	3.25	9250-273
33.0	45	2.5	240	.162 (4.11)	M9233-ND	3.18	2.97	9250-333
39.0	50	2.5	205	.162 (4.11)	M9234-ND	3.18	2.97	9250-393
47.0	50	2.5	195	.162 (4.11)	M9235-ND	3.18	2.97	9250-473
56.0	50	2.5	190	.162 (4.11)	M9236-ND	3.18	2.97	9250-563
68.0	50	2.5	170	.162 (4.11)	M9237-ND	3.18	2.97	9250-683
82.0	50	2.5	180	.162 (4.11)	M9238-ND	3.48	3.25	9250-823
100	50	2.5	160	.162 (4.11)	M9239-ND	3.48	3.25	9250-104
120	55	.79	150	.162 (4.11)	M9240-ND	3.48	3.25	9250-124
150	55	.79	140	.162 (4.11)	M9241-ND	3.48	3.25	9250-154
180	55	.79	135	.162 (4.11)	M9242-ND	3.48	3.25	9250-184
220	55	.79	125	.162 (4.11)	M9243-ND	3.48	3.25	9250-224
270	55	.79	115	.162 (4.11)	M9244-ND	3.48	3.25	9250-274
330	55	.79	110	.162 (4.11)	M9245-ND	3.48	3.25	9250-334
390	60	.79	105	.162 (4.11)	M9246-ND	3.48	3.25	9250-394
470	60	.79	92	.162 (4.11)	M9247-ND	3.48	3.25	9250-474
560	60	.79	90	.162 (4.11)	M9248-ND	3.48	3.25	9250-564
680	60	.79	80	.162 (4.11)	M9249-ND	3.48	3.25	9250-684
820	60	.79	80	.162 (4.11)	M9250-ND	3.48	3.25	9250-824
1,000	60	.79	70	.162 (4.11)	M9251-ND	3.48	3.25	9250-105
1,200	45	.25	60	.162 (4.11)	M9252-ND	3.98	3.73	9250-125
1,500	45	.25	55	.162 (4.11)	M9253-ND	3.98	3.73	9250-155
1,800	45	.25	50	.162 (4.11)	M9254-ND	3.98	3.73	9250-185
2,200	45	.25	50	.162 (4.11)	M9255-ND	3.98	3.73	9250-225
2,700	45	.25	40	.162 (4.11)	M9256-ND	3.98	3.73	9250-275
3,300	45	.25	40	.162 (4.11)	M9257-ND	3.98	3.73	9250-335
3,900	45	.25	35	.162 (4.11)	M9258-ND	3.98	3.73	9250-395
4,700	45	.25	31	.162 (4.11)	M9259-ND	4.29	4.01	9250-475
5,600	44	.25	28	.162 (4.11)	M9260-ND	4.29	4.01	9250-565
6,800	40	.25	27	.162 (4.11)	M9261-ND	4.29	4.01	9250-685
8,200	40	.25	26	.162 (4.11)	M9262-ND	4.29	4.01	9250-825
10,000	40	.25	24	.162 (4.11)	M9263-ND	4.29	4.01	9250-106
12,000	30	.079	23	.162 (4.11)	M9264-ND	4.76	4.45	9250-126
15,000	30	.079	22	.162 (4.11)	M9265-ND	3.99	3.73	9250-156
18,000	30	.079	21	.162 (4.11)	M9266-ND	6.36	5.94	9250-186
22,000	27	.079	17	.162 (4.11)	M9267-ND	8.39	7.84	9250-226
27,000	27	.079	16	.162 (4.11)	M9268-ND	8.39	7.84	9250-276
33,000	27	.079	15	.162 (4.11)	M9269-ND	8.39	7.84	9250-336
39,000	27	.079	15	.162 (4.11)	M9270-ND	8.39	7.84	9250-396
47,000	23	.079	13	.162 (4.11)	M9271-ND	8.39	7.84	9250-476
56,000	23	.079	13	.162 (4.11)	M9272-ND	10.68	9.98	9250-566
68,000	23	.079	12	.162 (4.11)	M9273-ND	10.69	9.98	9250-686
82,000	21	.079	11	.162 (4.11)	M9274-ND	11.10	10.36	9250-826
100,000	18	.079	11	.162 (4.11)	M9275-ND	13.74	12.83	9250-107

Epoxy Conformal Coated Inductors

Form Length: .300” (7.62mm)

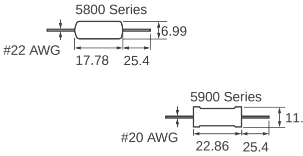
Lead Length: 2.62” (66.55mm)

Form Diameter: .120” (3.05mm)

Leads: .022”Ø (.56mm Ø)

L± 10% μH	Q Min.	Test Freq. MHz	I, dc Max. mA	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
Phenolic Core							
.10	40	25.0	1100	M8001-ND	1.14	1.07	8230-94
.12	40	25.0	1100	M8002-ND	1.14	1.07	8230-96
.15	38	25.0	1100	M8003-ND	1.26	1.19	8230-00
.18	35	25.0	1010	M8004-ND	1.26	1.19	8230-02
.22	33	25.0	935	M8005-ND	1.26	1.19	8230-04
.27	33	25.0	875	M8006-ND	1.26	1.19	8230-06
.33	30	25.0	780	M8007-ND	1.26	1.19	8230-08
.39	30	25.0	640	M8008-ND	1.26	1.19	8230-10
.47	30	25.0	590	M8009-ND	1.26	1.19	8230-12
.56	30	25.0	495	M8010-ND	1.26	1.19	8230-14
.68	28	25.0	450	M8011-ND	1.26	1.19	8230-16
.82	28	25.0	380	M8012-ND	1.26	1.19	8230-18
1.00	25	25.0	350	M8013-ND	1.26	1.19	8230-20
Iron Core							
1.20	25	7.9	825	M8014-ND	1.51	1.42	8230-22
1.50	28	7.9	745	M8015-ND	1.51	1.42	8230-24
1.80	30	7.9	640	M8016-ND	1.51	1.42	8230-26
2.20	30	7.9	550	M8017-ND	1.51	1.42	8230-28
2.70	37	7.9	495	M8018-ND	1.51	1.42	8230-30
3.30	45	7.9	380	M8019-ND	1.51	1.42	8230-32
3.90	45	7.9	350	M8020-ND	1.51	1.42	8230-34
4.70	45	7.9	320	M8021-ND	1.51	1.42	8230-36
5.60	50	7.9	260	M8022-ND	1.52	1.42	8230-38
6.80	50	7.9	245	M8023-ND	1.52	1.42	8230-40
8.20	55	7.9	210	M8024-ND	1.52	1.42	8230-42
10.00	55	7.9	180	M8025-ND	1.52	1.42	8230-44
12.00	45	2.5	210	M8026-ND	1.52	1.42	8230-46
15.00	45	2.5	205	M8027-ND	1.52	1.42	8230-48
18.00	50	2.5	195	M8028-ND	1.52	1.42	8230-50
22.00	50	2.5	190	M8029-ND	1.52	1.42	8230-52
27.00	50	2.5	185	M8030-ND	1.52	1.42	8230-54
Ferrite Core							
33.00	45	2.5	187	M8031-ND	1.74	1.63	8230-56
39.00	45	2.5	180	M8032-ND	1.74	1.63	8230-58
47.00	45	2.5	165	M8033-ND	1.74	1.63	8230-60
56.00	45	2.5	145	M8034-ND	1.74	1.63	8230-62
68.00	50	2.5	135	M8035-ND	1.74	1.63	8230-64
82.00	50	2.5	130	M8036-ND	1.74	1.63	8230-66
100.00	50	2.5	125	M8037-ND	1.74	1.63	8230-68
120.00	30	.79	97	M8038-ND	1.74	1.63	8230-70
150.00	30	.79	85	M8039-ND	1.74	1.63	8230-72
180.00	30	.79	79	M8040-ND	1.74	1.63	8230-74
220.00	30	.79	73	M8041-ND	1.74	1.63	8230-76
270.00	30	.79	65	M8042-ND	1.85	1.74	8230-78
330.00	30	.79	62	M8043-ND	1.85	1.74	8230-80
390.00	30	.79	55	M8044-ND	1.85	1.74	8230-82
470.00	30	.79	50	M8045-ND	1.86	1.74	8230-84
560.00	30	.79	48	M8046-ND	1.86	1.74	8230-86
680.00	30	.79	42	M8047-ND	1.86	1.74	8230-88
820.00	30	.79	40	M8048-ND	2.10	1.97	8230-90
1,000.00	30	.79	38	M8049-ND	2.10	1.97	8230-92

Filter and Miniature High Current Chokes

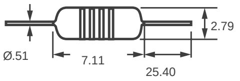


Inductance ± 15% @ 1 KHz. Coils finished with sleeving VW1 Rated. Leads No. 20 tinned copper 1” long min. Ambient Temp.: -55°C to +125°C.

L (μH) @ 0 DC	Max. DCR Ω @ +20°C	Rated Current Amp	Digi-Key Part No.	Price Each 1	10	J.W.Miller Part No.
5800 Series						
3.9	.019	1.28	M5801-ND	1.88	1.76	5800-3R9
4.7	.022	1.28	M5802-ND	1.88	1.76	5800-4R7
5.6	.024	1.28	M5803-ND	1.88	1.76	5800-5R6
6.8	.026	1.28	M5804-ND	1.88	1.76	5800-6R8
8.2	.028	1.28	M5805-ND	1.88	1.76	5800-8R2
10	.033	1.28	M5806-ND	1.88	1.76	5800-100
12	.037	1.28	M5807-ND	1.88	1.76	5800-120
15	.040	1.28	M5808-ND	1.88	1.76	5800-150
18	.044	1.28	M5809-ND	1.88	1.76	5800-180
22	.050	1.28	M5810-ND	1.88	1.76	5800-220
27	.058	1.28	M5811-ND	1.88	1.76	5800-270
33	.075	1.008	M5812-ND	1.88	1.76	5800-330
39	.094	0.804	M5813-ND	1.88	1.76	5800-390
47	.109	0.804	M5814-ND	1.88	1.76	5800-470
56	.140	0.804	M5815-ND	1.88	1.76	5800-560
68	.145	0.804	M5816-ND	1.88	1.76	5800-680
82	.152	0.804	M5817-ND	1.88	1.76	5800-820
100	.208	0.632	M5818-ND	1.88	1.76	5800-101
120	.283	0.508	M5819-ND	1.88	1.76	5800-121
150	.340	0.508	M5820-ND	1.88	1.76	5800-151
180	.362	0.508	M5821-ND	1.88	1.76	5800-181
220	.430	0.508	M5822-ND	1.88	1.76	5800-221
270	.557	0.400	M5823-ND	1.88	1.76	5800-271
330	.665	0.400	M5824-ND	1.88	1.76	5800-331
390	.772	0.400	M5825-ND	1.88	1.76	5800-391
470	1.15	0.315	M5826-ND	1.88	1.76	5800-471
560	1.27	0.315	M5827-ND	1.88	1.76	5800-561
680	1.61	0.250	M5828-ND	1.88	1.76	5800-681
820	1.96	0.200	M5829-ND	1.88	1.76	5800-821
1000	2.30	0.200	M5830-ND	1.88	1.76	5800-102
1200	2.65	0.200	M5831-ND	1.88	1.76	5800-122
1500	3.45	0.158	M5832-ND	1.88	1.76	5800-152
1800	4.03	0.158	M5833-ND	1.88	1.76	5800-182
2200	4.48	0.158	M5834-ND	1.88	1.76	5800-222
2700	5.90	0.125	M5835-ND	1.88	1.76	5800-272
3300	6.56	0.125	M5836-ND	1.88	1.76	5800-332
3900	8.63	0.100	M5837-ND	1.88	1.76	5800-392
4700	10.5	0.100	M5838-ND	1.88	1.76	5800-472
5600	13.9	0.082	M5839-ND	1.88	1.76	5800-562
6800	16.3	0.082	M5840-ND	1.88	1.76	5800-682
8200	20.8	0.065	M5841-ND	1.88	1.76	5800-822
10000	26.4	0.050	M5842-ND	1.88	1.76	5800-103
12000	29.9	0.050	M5843-ND	1.88	1.76	5800-123
15000	42.5	0.039	M5844-ND	1.88	1.76	5800-153
18000	48.3	0.039	M5845-ND	1.88	1.76	5800-183
5900 Series						
3.9	.007	4.0	M5901-ND	3.82	3.57	5900-3R9
4.7	.008	4.0	M5902-ND	3.82	3.57	5900-4R7
10	.017	4.0	M5906-ND	3.82	3.57	5900-100
22	.026	4.0	M5910-ND	3.82	3.57	5900-220
33	.032	4.0	M5912-ND	3.82	3.57	5900-330
47	.035	4.0	M5914-ND	3.82	3.57	5900-470
56	.037	3.2	M5915-ND	3.82	3.57	5900-560
68	.047	2.5	M5916-ND	3.82	3.57	5900-680
82	.060	2.0	M5917-ND	3.82	3.57	5900-820
100	.090	1.6	M5918-ND	3.82	3.57	5900-101
150	.129	1.6	M5920-ND	3.82	3.57	5900-151
180	.150	1.6	M5921-ND	3.82	3.57	5900-181
220	.162	1.6	M5922-ND	3.82	3.57	5900-221
330	.212	1.6	M5924-ND	3.82	3.57	5900-331
390	.281	1.6	M5925-ND	3.82	3.57	5900-391
470	.380	1.2	M5926-ND	3.82	3.57	5900-471
560	.420	1.0	M5927-ND	3.82	3.57	5900-561
680	.548	1.0	M5928-ND	3.82	3.57	5900-681
1000	.844	0.8	M5930-ND	3.82	3.57	5900-102
2200	2.00	0.5	M5934-ND	3.82	3.57	5900-222
3900	2.75	0.4	M5937-ND	3.82	3.57	5900-392
4700	3.19	0.4	M5938-ND	3.82	3.57	5900-472
10000	7.30	0.250	M5942-ND	5.88	5.49	5900-103
100000	89.7	0.065	M5954-ND	5.88	5.49	5900-104

J.W.Miller
MAGNETICS

High Quality Epoxy Conformal Coated Inductors



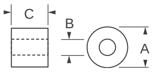
Operating Temperature: -20°C to +105°C
Working Voltage: 250 VDC max.
Material: Coating-Epoxy Leads-Tinned Copper
Core Material: Ferrite

L± 20% µH	Q Min.	Test Freq. MHz	I, dc Max. mA	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
.10	40	25.0	500	M7801-ND	.55	.52	78FR10M
.12	40	25.0	500	M7802-ND	.55	.52	78FR12M
.15	40	25.0	500	M7803-ND	.55	.52	78FR15M
.18	40	25.0	450	M7804-ND	.55	.52	78FR18M
.22*	40	25.0	1025	M7805-ND	.55	.52	78FR22K
.27*	40	25.0	950	M7806-ND	.55	.52	78FR27K
.33*	40	25.0	815	M7807-ND	.55	.52	78FR33K
.39*	40	25.0	700	M7808-ND	.55	.52	78FR39K
.47*	40	25.0	650	M7809-ND	.55	.52	78FR47K
.56*	40	25.0	545	M7810-ND	.55	.52	78FR56K
.68*	40	25.0	495	M7811-ND	.55	.52	78FR68K
.82*	40	25.0	415	M7812-ND	.55	.52	78FR82K
1.0*	40	25.0	385	M7813-ND	.55	.52	78F1R0K
1.2*	40	7.9	590	M7814-ND	.55	.52	78F1R2K
1.5*	45	7.9	535	M7815-ND	.55	.52	78F1R5K
1.8*	50	7.9	455	M7816-ND	.55	.52	78F1R8K

L± 20% µH	Q Min.	Test Freq. MHz	I, dc Max. mA	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
2.2*	50	7.9	395	M7817-ND	.55	.52	78F2R2K
2.7*	50	7.9	355	M7818-ND	.55	.52	78F2R7K
3.3†	50	7.9	270	M7819-ND	.55	.52	78F3R3J
3.9†	45	7.9	250	M7820-ND	.55	.52	78F3R9J
4.7†	45	7.9	230	M7821-ND	.55	.52	78F4R7J
5.6†	45	7.9	185	M7822-ND	.55	.52	78F5R6J
6.8†	40	7.9	175	M7823-ND	.55	.52	78F6R8J
8.2†	40	7.9	155	M7824-ND	.55	.52	78F8R2J
10†	40	2.5	130	M7825-ND	.55	.52	78F100J
12†	45	2.5	155	M7826-ND	.55	.52	78F120J
15†	50	2.5	150	M7827-ND	.55	.52	78F150J
18†	50	2.5	145	M7828-ND	.55	.52	78F180J
22†	50	2.5	140	M7829-ND	.55	.52	78F220J
27†	50	2.5	135	M7830-ND	.55	.52	78F270J
33†	50	2.5	193	M7831-ND	.55	.52	78F330J
39†	50	2.5	185	M7832-ND	.55	.52	78F390J
47†	60	2.5	167	M7833-ND	.55	.52	78F470J
56†	60	2.5	150	M7834-ND	.55	.52	78F560J
68†	60	2.5	137	M7835-ND	.55	.52	78F680J
82†	60	2.5	132	M7836-ND	.55	.52	78F820J
100†	60	2.5	125	M7837-ND	.55	.52	78F101J
120†	60	0.79	100	M7838-ND	.55	.52	78F121J
150†	60	0.79	90	M7839-ND	.55	.52	78F151J
180†	60	0.79	84	M7840-ND	.55	.52	78F181J
220†	60	0.79	76	M7841-ND	.55	.52	78F221J
270†	60	0.79	70	M7842-ND	.55	.52	78F271J
330†	60	0.79	65	M7843-ND	.55	.52	78F331J
390†	60	0.79	60	M7844-ND	.55	.52	78F391J
470†	60	0.79	53	M7845-ND	.55	.52	78F471J
560†	60	0.79	51	M7846-ND	.55	.52	78F561J
680†	60	0.79	45	M7847-ND	.55	.52	78F681J
820†	60	0.79	43	M7848-ND	.55	.52	78F821J
1000†	60	0.79	41	M7849-ND	.55	.52	78F102J

* Rated at L ± 10% µH. † Rated at L ± 5% µH.

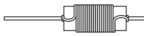
Ferrite Beads



The addition of a Ferrite Bead to a piece of wire causes the impedance of the lead to increase and acts like a small RF choke at high frequencies. It is possible to dissipate high frequency parasitic signals and attenuate undesirable frequencies that travel on DC circuits by the use of beads.

Freq. Range	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	J.W.Miller Part No.
0-40 MHz	1.32	.69	2.16	M2301-ND	.29	2.64	FB73-085
40-200 MHz	3.30	1.19	5.74	M2302-ND	.15	1.35	FB43-226
0-40 MHz	3.30	1.19	5.74	M2303-ND	.22	1.98	FB73-226
40-200 MHz	3.30	1.19	3.00	M2304-ND	.08	.69	FB43-110
200+ MHz	3.30	1.19	3.00	M2305-ND	.15	1.35	FB64-110
0-40 MHz	3.30	1.19	3.00	M2306-ND	.15	1.35	FB73-110
40-200MHz	4.83	1.45	10.72	M2307-ND	.22	1.98	FB43-422
0-40 MHz	4.83	1.45	10.72	M2308-ND	.22	1.98	FB73-422
40-200 MHz	7.39	2.26	7.29	M2309-ND	.22	1.98	FB43-287
0-40 MHz	7.39	2.26	7.29	M2310-ND	.29	2.64	FB73-287

Hash Choke



Dimensions: Form Length: 31.75mm; Lead Length: 31.75mm

L (µH)	R, dc Max. (Ω)	I, dc Max. (A)	Coil Dia. Max. (mm)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
Ferrite Core							
4	.012	8	9.65	M5230-ND	2.39	2.24	5230
40	.082	3	7.87	M5240-ND	2.39	2.24	5240
68	.054	5	14.22	M5248-ND	3.18	2.97	5248
100	.216	2	9.65	M5250-ND	3.18	2.97	5250
125	.08	3.5	12.70	M5252-ND	3.18	2.97	5252
250	.17	2.5	11.18	M5254-ND	3.18	2.97	5254
500	.26	2	14.22	M5256-ND	3.18	2.97	5256
1000	.55	1	12.70	M5258-ND	3.27	3.06	5258

TOKO

Balun Transformers

Toko's high quality balun (balanced/unbalanced) transformers are precisely wound round a double ferrite core. Toko's baluns are ideally suited for designing double balanced mixers, directional couplers, signal splitters, signal distributors, and impedance matching circuits.

Fig. 1

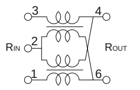


Fig. 2

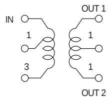
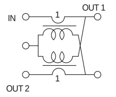
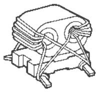
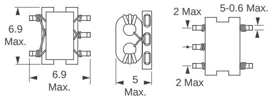


Fig. 3

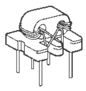


Type B5F
Surface Mount




6.9 Max.
6.9 Max.
5 Max.
2 Max
5-0.6 Max.
2 Max

Type B7T
Leaded



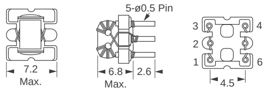


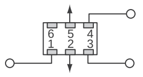
Fig.	Winding	Operating Frequency Range	Insertion Loss	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Toko Part No.
Type B5F – Surface Mount										
1	n = 1	50MHz~400MHz	10dB max.	TKS2514CT-ND	2.89	2.58	1.87	TKS2514TR-ND	1610.00	458DB-1012
1	n = 4	6MHz~600MHz	2.5dB max.	TKS2512CT-ND	5.00	3.42	2.33	TKS2512TR-ND	1610.00	458DB-1008
1	n = 5	5MHz~500MHz	2dB max.	TKS2513CT-ND	5.00	3.42	2.33	TKS2513TR-ND	1610.00	458DB-1011
1	n = 2	400MHz~1.3GHz	4dB max.	TKS2511CT-ND	2.89	2.58	1.87	—	—	458DB-1005
2	—	20MHz~600MHz	IN to OUT-1,2 4.5dB max; OUT-1 to OUT-2 (ISOLATION) 10dBN min.	TKS2518CT-ND	5.00	3.42	2.33	TKS2518TR-ND	1610.00	458DS-1014
3	n = 4	6MHz~600MHz	IN to OUT-1 1.3dB max.; IN to OUT-2 11dB ~ 14dB	TKS2519CT-ND	5.00	3.42	2.33	TKS2519TR-ND	1610.00	458PS-1015
3	n = 6	6MHz~600MHz	IN to OUT-1 0.8dB max; IN to OUT-2 15db ~ 17dB	TKS2517CT-ND	5.00	3.42	2.33	TKS2517TR-ND	1610.00	458PS-1007
Type B7T – Leaded										
1	n = 5	5MHz~500 MHz	2dB max.	TK2513-ND	5.55	4.35	2.59	—	—	456DB-1007
2	—	20MHz~600MHz	IN to OUT-1,2 4.5dB max; OUT-1 to OUT-2 (ISOLATION) 10dBN min.	TK2518-ND	5.55	4.35	2.59	—	—	456DS-1012
3	n = 6	6MHz~600MHz	IN to OUT-1 0.8dB max; IN to OUT-2 15db ~ 17dB	TK2516-ND	5.55	4.35	2.59	—	—	456PS-1011

TDK

NEW! RF Balun Transformers

HHM Series - Surface Mount

Feature: These products are intended for wireless LAN (local area network) applications.



Pin Configuration
1 Unbalanced Port
2 GND or DC Feed + RF GND
3 Balanced Port
4 Balanced Port
5 GND
6 NC

Fig. 1

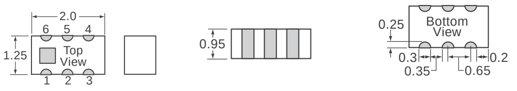


Fig. 2

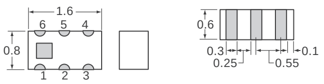


Fig.	Application	Operating Freq. (Mhz)	Impedance In/Out (ohms)	Insertion Loss-max. (dB)	Difference of Phase (deg.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	TDK Part No.
1	Bluetooth and IEEE802.11blg	2400~2500	50/50	1.2	180 ± 10	445-1233-1-ND	2.05	1.54	1.03	445-1233-2-ND	635.19/M	HHM1517
	Bluetooth and IEEE802.11blg	2400~2500	50/100	1.0	180 ± 10	445-1234-1-ND	2.05	1.54	1.03	445-1234-2-ND	635.19/M	HHM1520
	Bluetooth and IEEE802.11blg	2400~2500	50/200	1.0	180 ± 10	445-1229-1-ND	2.05	1.54	1.03	445-1229-2-ND	635.19/M	HHM1521
	Wideband-LAN	4900~5950	50/100	1.0	180 ± 10	445-1231-1-ND	2.05	1.54	1.03	445-1231-2-ND	635.19/M	HHM1570B1
	Wideband-LAN	5150~5875	50/100	1.0	180 ± 10	445-1230-1-ND	2.05	1.54	1.03	445-1230-2-ND	635.19/M	HHM1562B
2	Bluetooth and IEEE802.11blg	2400~2500	50/100	1.2	180 ± 10	445-1232-1-ND	2.05	1.54	1.03	445-1232-2-ND	635.19/M	HHM1711D1

Hybrid Passive RF/Microwave Devices

Note: All drawings are top view.

These components are especially suited for Mobile Phones (Handsets and Base Stations), Navigation Devices (GPS), Pagers, Mobile Computing (PCs and PDAs), Mobile Data Terminals, Wireless Microphones, Cordless Phones as well as Wireless Local Area Network (WLAN) applications. **SPECIFICATIONS: Operating Temp.:** -40°C to +85°C **Soldering:** 230°C for 5 seconds **BALUN:** Ultra small, thin, high precision, with ultra-fine geometry baluns to meet your single-ended to double-ended to electronic circuitry interface requirements. Application: Single/Double Ended Mixer, Differential Amp, Matching. **DIRECTIONAL COUPLER:** Miniaturized, high coupling efficiency, low-cost, with ultra-fine geometry directional couplers to meet your most demanding coupling needs. Application: To control transmitted power. **DIRECTIONAL COUPLER with LC FILTER:** A directional coupler having the above same features and benefits, but also incorporating a LC Filter. Application: To control transmitted power while suppressing spurious noise. **POWER DIVIDER:** Miniaturized, high efficiency/low-loss, with ultra-fine geometry, three port power divider to meet your circuitry power handling requirements. Application: To divide internal signals (ex. VCO).

Fig. 1

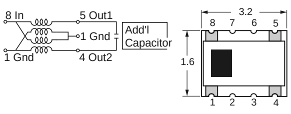


Fig. 2 – *NEW!*

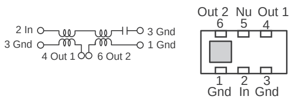


Fig. 3

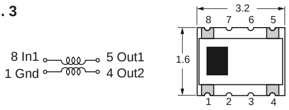


Fig. 4

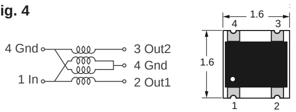


Fig. 5

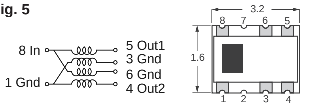


Fig. 6 – *NEW!*

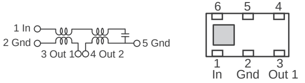


Fig. 7 – *NEW!*

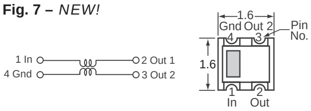


Fig. 8 – *NEW!*

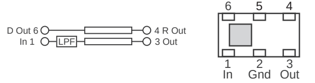


Fig. 9 – *NEW!*

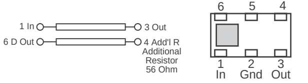


Fig. 10

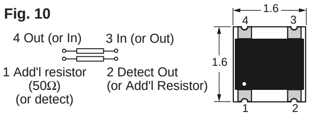

4 Out (or In)
3 In (or Out)
1 Add'l resistor (50Ω) (or detect)
2 Detect Out (or Add'l Resistor)
1.6
4 3
1.6
1 2

Fig. 11 – *NEW!*

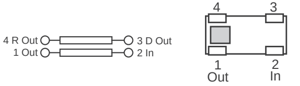


Fig. 12 – *NEW!*

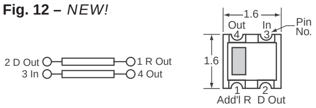


Fig. 13 – *NEW!*

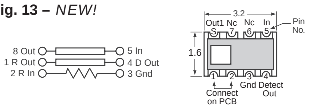


Fig. 14

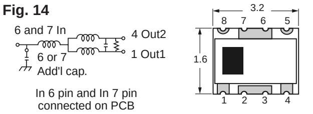


Fig. 15

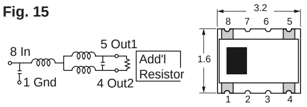


Fig. 16 – *NEW!*

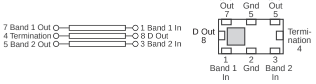


Fig. 17 – *NEW!*

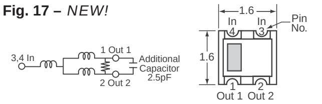


Fig. 18 – *NEW!*

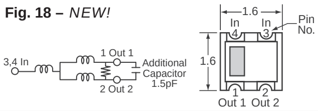


Fig.	Description	Operating Freq. (Mhz)	Impedance In/Out (ohms)	Insertion Loss (max.)	Difference of Phase (deg.)	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
1	Balun	130~500	50/200	3dB	180±15	3.2 x 1.6	P10702-ND	1.89	1.58	1.26	—	—	EHF-FD1617
2	Balun	1700~1900	50/50	.8dB	180±10	3.2 x 1.6	P12025CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-1BD1800
		1700~1900	50/100	.8dB	180±10	3.2 x 1.6	P12026CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-1BE1800
		880~960	50/200	.8dB	180±10	3.2 x 1.6	P12027CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-1BG0920
		1700~1900	50/200	.8dB	180±10	3.2 x 1.6	P12028CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-1BG1800
3	Balun	700~1300	50/50	1dB	180±15	3.2 x 1.6	P10705CT-ND†	1.71	1.43	1.14	4,000	756.72/M	EHF-FD1618
		1200~2200	50/50	1dB	180±15	3.2 x 1.6	P10708CT-ND†	1.71	1.43	1.14	4,000	756.72/M	EHF-FD1619
4	Balun	750~950	50/200	1dB	180±15	1.6 x 1.6	P10703-ND	1.89	1.58	1.26	—	—	EHF-FD1622
		950~1250	50/200	1dB	180±15	1.6 x 1.6	P10706CT-ND†	1.89	1.58	1.26	4,000	837.16/M	EHF-FD1620
5	Balun	1700~1900	50/200	1dB	180±15	3.2 x 1.6	P10711-ND	1.71	1.43	1.14	—	—	EHF-FD1626
6	Balun	1700~1900	50/50	1.0dB	180±15	2.0 x 1.25	P12029CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BD1800
		1920~2170	50/50	1.0dB	180±15	2.0 x 1.25	P12030CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BD2060
		2400~2500	50/50	1.0dB	180±15	2.0 x 1.25	P12031CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BD2450
		880~960	50/100	1.0dB	180±15	2.0 x 1.25	P12032CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BE0920
		1700~1900	50/100	1.0dB	180±15	2.0 x 1.25	P12033CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BE1800
		1920~2170	50/100	1.0dB	180±15	2.0 x 1.25	P12034CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BE2060
		2400~2500	50/100	1.0dB	180±15	2.0 x 1.25	P12035CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BE2450
		880~960	50/200	1.0dB	180±15	2.0 x 1.25	P12036CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BG0920
		1700~1900	50/200	1.0dB	180±15	2.0 x 1.25	P12037CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BG1800
		1920~2170	50/200	1.0dB	180±15	2.0 x 1.25	P12038CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BG2060
		2400-2500	50/200	1.0dB	180±15	2.0 x 1.25	P12039CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-2BG2450
		3400-3400	50/100	1.0dB	180±20	2.0 x 1.25	P12041CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-FD1755T
7	Balun	1700-2000	50/50	.8dB	180±10	1.6 x 1.6	P12040CT-ND† *NEW!*	1.61	1.35	1.08	500	403.20	EHF-FD1629

† For Tape & Reel Part Number, change CT to TR.

Fig.	Description	Operating Freq. (Mhz)	Coupling Factor (dB)	Insertion Loss (max.)	Isolation (min.)	Volt. Standing Wave Ratio (max.)	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel* Size	Tape & Reel* Pricing	Panasonic Part No.
9	Directional Coupler	850~950	14.5±1	.3dB	25dB	1.3	2.0 x 1.25	P12042CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-2CM0900
		1710~1785	14±1	.35dB	22dB	1.3	1.6 x .8	P12043CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-4CM1747
10	Directional Coupler	800~1000	17±2	.25dB	25dB	1.3	1.6 x 1.6	P10684CT-ND	1.62	1.35	1.08	4,000	717.99/M	EHF-FD1540
		1850~2000	14±2	.35dB	20dB	1.3	1.6 x 1.6	P10691CT-ND	1.62	1.35	1.08	4,000	717.99/M	EHF-FD1541
11	Directional Coupler	1710~1910	17±1.5	.25dB	27dB	1.3	1.6 x .8	P12044CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-4CQ1810
		820~850	20±1	.25dB	30dB	1.3	1.6 x .8	P12045CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-4CT0835
12	Directional Coupler	1850~1950	20±1	.3dB	26dB	1.3	1.6 x 1.6	P12046CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-FD1542
		1850~1950	17±1	.3dB	23dB	1.3	1.6 x 1.6	P12047CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-FD1548
13	Direc. Coupler	800~1000	14±2	.4dB	20dB	1.3	3.2 x 1.6	P12048CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-FD1556
16	Dual Directional	880~915 1710~1785	19±2 14±1.5	.35dB .45dB	24 17	1.5 1.5	2.0 x 1.25 2.0 x 1.25	P12049CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-FD1812D
		880~915 1710~1785	14±1 14±1	.45dB .45dB	18 18	1.5 1.5	2.0 x 1.25 2.0 x 1.25	P12050CT-ND *NEW!*	1.38	1.15	.92	500	344.40	EHF-FD1824

*For Tape & Reel Part Number, change CT to TR.

Fig.	Description	Operating Freq. (Mhz)	Coupling Factor (dB)	Insertion Loss (max.)	2FO Attenuation (min.)	3FO Attenuation (min.)	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel* Size	Tape & Reel* Pricing	Panasonic Part No.
8	Dual Coupler with Filter	890~915	20±1	.45d	22db	17dB	2.0 x 1.25	P12051CT-ND *NEW!*	1.61	1.35	1.08	500	403.20	EHF-FD1728
		1710-1785	20±1	.45d	22dB	17dB	2.0 x 1.25	P12052CT-ND *NEW!*	1.61	1.35	1.08	500	403.20	EHF-FD1729

*For Tape & Reel Part Number, change CT to TR.

Fig.	Description	Operating Freq. (Mhz)	Insertion Loss (max.)	Isolation (min.)	Volt. Standing Wave Ratio (max.)	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel* Size	Tape & Reel* Pricing	Panasonic Part No.
14	Power Divider	720~760	4.0dB	18dB	1.9	3.2 x 1.6	P10715-ND†	2.02	1.69	1.35	—	—	EHF-FD1502
15	Power Divider	1000~1050	4.0dB	18dB	1.9	3.2 x 1.6	P10716-ND†	2.02	1.69	1.35	—	—	EHF-FD1508
		1546~1630	4.0dB	18dB	1.9	3.2 x 1.6	P10717-ND†	1.93	1.61	1.29	—	—	EHF-FD1503
		1607~1685	4.0dB	18dB	1.7	3.2 x 1.6	P10718-ND†	1.93	1.61	1.29	—	—	EHF-FD1506
		1880~1920	4.0dB	18dB	1.9	3.2 x 1.6	P10720-ND†	1.93	1.61	1.29	—	—	EHF-FD1507
		2100~2200	4.0dB	18dB	1.7	3.2 x 1.6	P10721-ND†	1.93	1.61	1.29	—	—	EHF-FD1509
17	Power Divider	1607~1685	4dB	18dB	2.1	1.6 x 1.6	P12053CT-ND• *NEW!*	1.38	1.15	.92	500	344.40	EHF-FD1495
18	Power Divider	945~979	4dB	18	2.1	1.6 x 1.6	P12054CT-ND• *NEW!*	1.38	1.15	.92	500	344.40	EHF-FD1779

† Bulk Package • Cut Tape Package * For Tape & Reel Part Number, change CT to TR.

TOKO Helical Filters

Examples of Connection Diagrams — Bottom View

Fig. 1 — 5CHW Type – Surface Mount

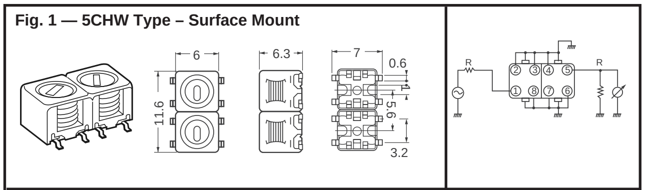


Fig. 2 — 5CHT Type – Surface Mount

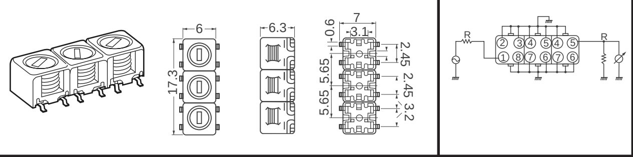


Fig. 3 — 5CHLW Type – Surface Mount

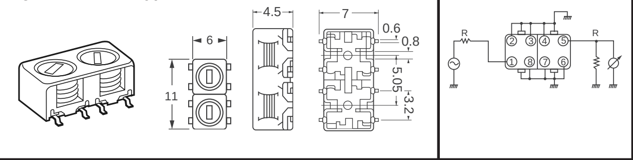


Fig. 4 — 5HW Type

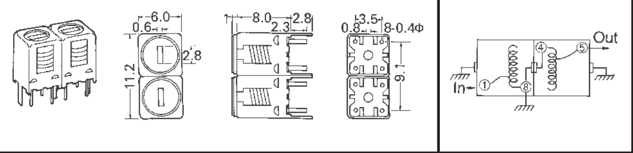


Fig. 5— 5HT Type

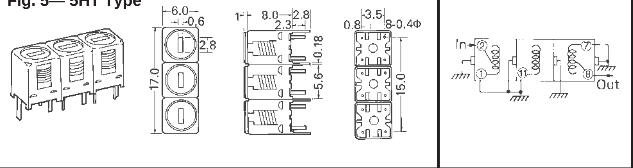


Fig. 6 — 7HW Type

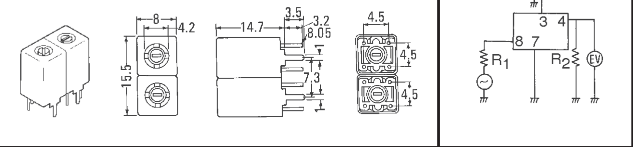


Fig. 7 — 7HT Type

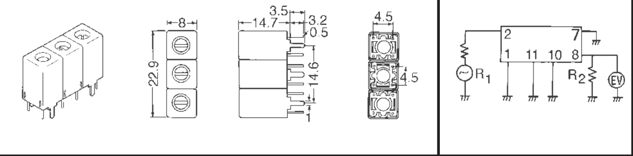


Fig. 8 — CBW Type

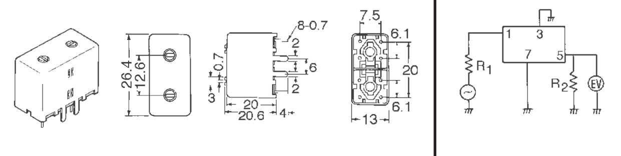
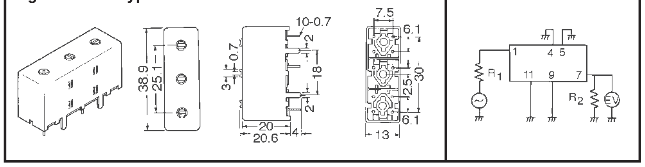


Fig. 9 — CBT Type

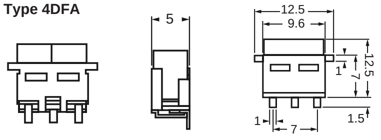


Test /Bw Freq./Min. (MHz)/(MHz)	Selectivity (Min.) dB (MHz) dB (MHz)	Ripple/ Loss dB / dB	Digi-Key Part No.	Cut Tape Pricing 1	10	Digi-Key Part No.	Tape & Reel Pricing	Toko Part No.
Fig. 1 — 5CHW TYPE – Surface Mount								
420 / 10	20 (+50) 14 (–50)	0.5 / 3.0	TKS5440CT-ND	19.90	159.20	TKS5440TR-ND	5970.00/750	492S-1051A
427 / 10	20 (+50) 14 (–50)	0.5 / 3.0	TKS5441CT-ND	19.90	159.20	TKS5441TR-ND	5970.00/750	492S-1053A
435 / 10	20 (+50) 14 (–50)	0.5 / 3.5	TKS5442CT-ND	19.90	159.20	TKS5442TR-ND	5970.00/750	492S-1055A
450 / 10	17 (+50) 12 (–50)	0.5 / 3.5	TKS5443CT-ND	19.90	159.20	TKS5443TR-ND	5970.00/750	492S-1057A
456 / 10	16 (+50) 12 (–50)	0.5 / 3.5	TKS5444CT-ND	19.90	159.20	TKS5444TR-ND	5970.00/750	492S-1059A
463.5 / 10	16 (+50) 12 (–50)	0.5 / 3.5	TKS5445CT-ND	19.90	159.20	TKS5445TR-ND	5970.00/750	492S-1061A
470 / 10	15 (+50) 12 (–50)	0.5 / 3.5	TKS5446CT-ND	19.90	159.20	TKS5446TR-ND	5970.00/750	492S-1063A
Fig. 2 — 5CHT TYPE – Surface Mount								
395 / 10	33 (+50) 33 (–50)	0.5 / 4.5	TKS5448CT-ND	27.25	218.00	TKS5448TR-ND	10218.75/750	493S-1066A
420 / 10	30 (+50) 30 (–50)	0.5 / 4.5	TKS5449CT-ND	27.25	218.00	TKS5449TR-ND	10218.75/750	493S-1067A
425 / 10	30 (+50) 30 (–50)	0.5 / 4.5	TKS5450CT-ND	27.25	218.00	TKS5450TR-ND	10218.75/750	493S-1068A
430 / 10	30 (+50) 30 (–50)	0.5 / 4.5	TKS5451CT-ND	27.25	218.00	TKS5451TR-ND	10218.75/750	493S-1069A
440 / 10	27 (+50) 27 (–50)	0.5 / 4.5	TKS5452CT-ND	27.25	218.00	TKS5452TR-ND	10218.75/750	493S-1071A
452 / 10	27 (+50) 27 (–50)	0.5 / 4.5	TKS5453CT-ND	27.25	218.00	TKS5453TR-ND	10218.75/750	493S-1073A
460 / 10	27 (+50) 27 (–50)	0.5 / 4.5	TKS5454CT-ND	27.25	218.00	TKS5454TR-ND	10218.75/750	493S-1075A
Fig. 3 — 5CHLW TYPE – Surface Mount								
836 / 23	14 (+100) 22 (–100)	1.5 / 4.0	TKS5432CT-ND	13.17	104.23	—	—	477MS-1093A
850 / 25	17 (+100) 25 (–100)	1.0 / 2.5	TKS5433CT-ND	13.17	104.23	—	—	477MS-1032A
881 / 23	12 (+100) 19 (–100)	1.0 / 3.5	TKS5435CT-ND	13.17	104.23	—	—	477MS-1094A
902.5 / 25	18 (+100) 24 (–100)	1.0 / 2.5	TKS5436CT-ND	20.90	167.20	TKS5436TR-ND	5800.00/1000	477MS-1034A
915 / 25	18 (+100) 25 (–100)	1.0 / 2.5	TKS5437CT-ND	20.90	167.20	TKS5437TR-ND	5800.00/1000	477MS-1035A
933 / 25	18 (+100) 25 (–100)	1.0 / 2.5	TKS5438CT-ND	20.90	167.20	TKS5438TR-ND	5800.00/1000	477MS-1036A
947.5 / 25	18 (+100) 25 (–100)	1.0 / 2.5	TKS5439CT-ND	20.90	167.20	TKS5439TR-ND	5800.00/1000	477MS-1037A

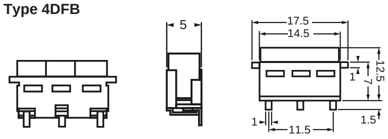
Test / Bw Freq. / Min. (MHz) / (MHz)	Selectivity (Min.) dB (MHz) dB (MHz)	Ripple/ Loss dB / dB	Digi-Key Part No.	Pricing 1	10	50	Toko Part No.
Fig. 4 — 5HW Type							
365 / 6	20 (–50) 25 (+50)	1.0 / 4.5	TK5414-ND	26.05	208.40	989.90	5HW-35045A-365
475 / 8	18 (–50) 22 (+50)	1.0 / 4.5	TK5415-ND	26.05	208.40	989.90	5HW-44545A-475
530 / 10	16 (–50) 20 (+50)	1.0 / 4.5	TK5416-ND	26.05	208.40	989.90	5HW-51035A-530
700 / 16	23 (–100) 26 (+100)	1.0 / 3.5	TK5418-ND	26.05	208.40	989.90	5HW-68050A-700
820 / 16	22 (–100) 24 (+100)	1.0 / 3.5	TK5419-ND	26.05	208.40	989.90	5HW-78045A-820
914 / 18	19 (–100) 24 (+100)	1.0 / 3.5	TK5420-ND	26.05	208.40	989.90	5HW-88560A-914
1010 / 16	14 (–100) 18 (+100)	1.0 / 3.5	TK5421-ND	26.05	208.40	989.90	5HW-100090A-1010
1305 / 25	18 (–100) 20 (+100)	1.0 / 3.5	TK5423-ND	26.05	208.40	989.90	5HW-125055F-1305
425 / 7	20 (–50) 25 (+50)	1.0 / 4.5	TK5424-ND	26.05	208.40	989.90	5HW-39545A-425
Fig. 5 — 5HT Type							
360 / 16	33 (+50) 25 (–50)	1.0 / 4.0	TK5401-ND	23.70	189.60	900.60	5HT-36020AS-360
440 / 14	28 (+50) 25 (–50)	1.0 / 4.0	TK5403-ND	23.70	189.60	900.60	5HT-44020AS-440
480 / 14	26 (+50) 22 (–50)	1.0 / 4.0	TK5404-ND	23.70	189.60	900.60	5HT-48030AS-480
515 / 16	25 (+50) 20 (–50)	1.0 / 4.0	TK5405-ND	23.70	189.60	900.60	5HT-51535AS-515
590/12	34 (+50) 25 (–50)	1.0 / 4.0	TK5406-ND	23.70	189.60	900.60	5HT-59065F-590
655 / 12	30 (+50) 26 (–50)	1.0 / 4.0	TK5407-ND	23.70	189.60	900.60	5HT-65550F-655
735 / 15	28 (+50) 24 (–50)	1.0 / 4.0	TK5408-ND	23.70	189.60	900.60	5HT-73565F-735
830 / 15	26 (+50) 22 (–50)	1.0 / 4.0	TK5409-ND	23.70	189.60	900.60	5HT-83050F-830
945 / 15	22 (+50) 18 (–50)	1.0 / 4.0	TK5410-ND	23.70	189.60	900.60	5HT-94535F-945
1010 / 15	18 (+50) 14 (–50)	1.0 / 4.0	TK5411-ND	23.70	189.60	900.60	5HT-101045F-1010
1090 / 15	17 (+50) 15 (–50)	1.0 / 4.0	TK5412-ND	23.70	189.60	900.60	5HT-109065F-1090
1230 / 15	20 (+50) 16 (–50)	1.0 / 4.5	TK5413-ND	23.70	189.60	900.60	5HT-123080C-1230
Fig. 6 — 7HW Type							
405 / 9	20 (–10) 15 (+10)	1.5 / 3.5	TK3301-ND	20.45	163.60	777.10	252MXPR-2535A
435 / 10.5	17 (–5) 14 (+15)	1.5 / 3.0	TK3302-ND	20.45	163.60	777.10	252MXPR-2537A
453 / 11.5	16 (–3) 13 (+7)	1.5 / 2.5	TK3303-ND	20.45	163.60	777.10	252MXPR-2767A
462 / 12	14 (–2) 11 (+8)	1.5 / 2.5	TK3304-ND	20.45	163.60	777.10	252MXPR-2689A
480 / 12.5	14 (–10) 11 (+10)	1.5 / 2.5	TK3305-ND	20.45	163.60	777.10	252MXPR-2765A
550 / 7	23 (–10) 20 (+15)	1.5 / 3.5	TK3307-ND	10.23	92.03	409.00	252HXPK-2736F
600 / 8	23 (–5) 21 (+15)	1.5 / 3.5	TK3308-ND	20.45	163.60	777.10	252HXPK-2733F
640 / 9	29 (–25) 27 (+5)	1.5 / 3.5	TK3309-ND	10.23	92.03	409.00	252HXPK-2708F
715 / 11	26 (–25) 24 (+10)	1.5 / 3.0	TK3310-ND	20.45	163.60	777.10	252HXPK-2702F
830 / 13.5	20 (–35) 18 (+10)	1.5 / 3.0	TK3311-ND	20.45	163.60	777.10	252HXPK-2774F
870 / 14	19 (–30) 16 (+15)	1.5 / 3.0	TK3312-ND	20.45	163.60	777.10	252HXPK-2770F
910 / 15	18 (–25) 15 (+10)	1.5 / 3.0	TK3313-ND	20.45	163.60	777.10	252HXPK-2737F
Fig. 7 — 7HT Type							
904 / 8	40 (–60) 30 (+60)	1.0 / 5.0	TK3401-ND	28.65	229.20	1088.70	302HXPK-1278B
880 / 20	16 (–40) 10 (+40)	2.0 / 3.0	TK3404-ND	28.65	229.20	1088.70	302HXPK-1339D1
835 / 23	33 (–75) 10 (+35)	0.5 / 3.0	TK3403-ND	28.65	229.20	1088.70	302HXPK-1328D1
510 / 35	10 (–50) 9 (+50)	1.0 / 1.5	TK3405-ND	28.65	229.20	1088.70	302MXPR-1225G
1015 / 20	20 (–40) 16 (+40)	2.0 / 4.0	TK3406-ND	28.65	229.20	1088.70	302HXPK-1271B
813 / 17	23 (–50) 16 (+50)	0.5 / 3.0	TK3409-ND	28.65	229.20	1088.70	302HXPK-1341D1
456 / 4.5	29 (–20) 22 (+20)	0.5 / 5.0	TK3410-ND	28.65	229.20	1088.70	302HXPK-1035D
433 / 7.2	23 (–15) 17 (+15)	0.5 / 5.0	TK3411-ND	28.65	229.20	1088.70	302HXPK-1354D1
Fig. 8 — CBW Type							
220 / 2.0	20 (–15) 18 (+15)	0.5 / 3.0	TK3601-ND	32.25	258.00	1225.50	271MT-1166A
138 / 2.2	20 (–15) 18 (+10)	1.0 / 2.5	TK3606-ND	32.25	258.00	1225.50	271MT-1134A
167 / 2.4	19 (–10) 17 (+10)	1.0 / 2.5	TK3605-ND	32.25	258.00	1225.50	271MT-1136A
176 / 2.6	16 (–10) 15 (+10)	1.0 / 2.5	TK3604-ND	32.25	258.00	1225.50	271MT-1142A
187 / 2.8	15 (–10) 14 (+10)	1.0 / 2.5	TK3603-ND	32.25	258.00	1225.50	271MT-1143A
216 / 3.0	15 (–10) 14 (+10)	1.0 / 3.0	TK3602-ND	32.25	258.00	1225.50	271MT-1145A
Fig. 9 — CBT Type							
145 / 2.8	25 (–6) 25 (+6)	0.5 / 8.0	TK3506-ND	48.30	386.40	1835.40	272MT-1006A
145 / 1.2	30 (–6) 30 (+6)	0.5 / 8.0	TK3504-ND	48.30	386.40	1835.40	272MT-1008A
170 / 1.5	25 (–6) 25 (+6)	0.5 / 8.0	TK3502-ND	48.30	386.40	1835.40	272MT-1013A
170 / 1.0	25 (–5) 25 (+5)	0.5 / 8.0	TK3505-ND	48.30	386.40	1835.40	272MT-1007A
223 / 2.6	28 (–10) 40 (+20)	0.5 / 6.0	TK3501-ND	48.30	386.40	1835.40	272MT-1080A

TOKO Dielectric Filters

Type 4DFA



Type 4DFB



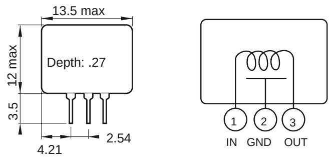
Applications: • Cellular - AMPS/TDMA/CDMA • RF Data • Cordless Phone • ISM • Pager • SMR • GPS • Ardis **Temperature Range:** -25°C to +85°C

Center Freq. MHz	Bandwidth (fo ± MHz)	I.L (dB max.)	Selectivity dB min. @ MHz	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000	Toko Part No.
Type 4DFA (2 Pole SMD Type)											
902.5	±12.5	2.5	18(*f*o ± 77.5)	TKS2602CT-ND	24.06	161.60	971.00	TKS2602TR-ND	2780.00	3510.00	4DFA-902E-10
947.5	±12.5	2.5	18(*f*o ± 77.5)	TKS2603CT-ND	24.06	161.60	971.00	TKS2603TR-ND	2780.00	3510.00	4DFA-947E-10
904.0	±1.0	3.8	21,30(*f*o +21.5, +44)	TKS2604CT-ND	24.06	161.60	971.00	TKS2604TR-ND	2780.00	3510.00	4DFA-904A-10
926.5	±1.0	3.8	21,30(*f*o -21.5, -44)	TKS2605CT-ND	12.48	98.80	722.80	—	—	—	4DFA-926A-11
915.0	±13.0	2.2	18(*f*o ±77.5)	TKS2606CT-ND	24.06	161.60	971.00	TKS2606TR-ND	2780.00	3510.00	4DFA-915E-10
1227.0	±5.0	2.0	7,30(*f*o ±35, 140)	TKS2607CT-ND	24.06	161.60	971.00	TKS2607TR-ND	2780.00	3510.00	4DFA-1227B-10
1575.4	±5.0	2.0: 1.4 typ	7,30(*f*o ±35, 140)	TKS2608CT-ND	24.06	161.60	971.00	TKS2608TR-ND	2780.00	3510.00	4DFA-1575B-10
1575.4	±5.0	1.2: 0.7 typ	17,20(*f*o +140, -140)	TKS2609CT-ND	24.06	161.60	971.00	TKS2609TR-ND	2780.00	3510.00	4DFA-1575B-12
2450.0	±50.0	2.0	22(*f*o -280)	TKS2610CT-ND	24.06	161.60	971.00	TKS2610TR-ND	2780.00	3510.00	4DFA-2450T-10
Type 4DFB (3 Pole SMD Type)											
860.5	±10.0	2.5	15,35(*f*o ±35,80)	TKS2612CT-ND	36.16	242.80	1459.00	TKS2612TR-ND	4180.00	5280.00	4DFB-860D-10
915.0	±13.0	2.7	12(*f*o ±32.5)	TKS2617CT-ND	36.16	242.80	1459.00	TKS2617TR-ND	4180.00	5280.00	4DFB-915E-10
2450.0	±50.0	2.2	28(*f*o -280)	TKS2618CT-ND	40.19	269.90	1622.00	TKS2618TR-ND	4645.00	5870.00	4DFB-2450T-10

Delay Lines 4NS Rise Time

Features:

- Temperature Coefficient: ±200ppm/°C (typ.)
- Waveform Distortion: Less than ±15%
- Peak Pulse Voltage: 50V
- Insulation Resistance: 100MΩ min., at 50V DC
- Compact single-in-line
- High impedance, long delay time
- Output available from intermediate tap



Total Delay Time	Digi-Key Part No.	Pricing 1	10	100	Toko Part No.
300ns ± 7%	TK5312-ND	10.46	83.65	697.05	JF3300G

Dielectric Antenna Element

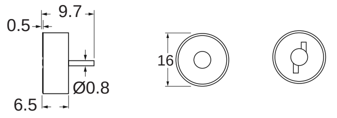
The DAC Series is a miniature dielectric antenna element for 2.4 GHz wireless LAN systems. This antenna has vertical polarization characteristics. The proprietary ceramic dielectric material provides excellent stability and sensitivity. It is mountable in Type II extended PCMCIA cards.

FEATURES:

• Vertical polarization reception • Low profile (6.5mm max.) • Omni-directional in azimuth • Low interference design • Central feeding point terminal • Wide bandwidth • Light weight

SPECIFICATIONS:

• Center Frequency: 2450 MHz • Receiving Bandwidth: ±50 MHz min. • Impedance: 50Ω • Peak Gain: 2.15 dBi (0dBi typical) max. • Operating Temperature: -10°C to 60°C • Storage Temperature: -20°C to 85°C • Weight: 4g



TK5151-ND (DAC2450CT1T) $16.75

Dielectric Patch Antenna

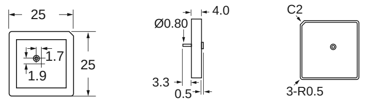
The DAK Series is a miniature dielectric antenna element for Global Positioning Systems (GPS). This patch antenna has excellent stability and sensitivity through the use of high performance proprietary ceramic dielectric material well suited for GPS frequencies.

FEATURES:

• One-quarter the size of traditional antenna elements without loss of sensitivity • Excellent temperature stability via use of low temperature coefficient dielectric ceramics • Silver plated electrode allows very good high frequency characteristics

SPECIFICATIONS:

• Center Frequency: 1580.5 MHz (Center frequency is shifted 5MHz down when covered with a radome.) • Bandwidth: 9 MHz minimum • Impedance: 50Ω • Gain @ Zenith: +5 dBi typ. • Gain @ 10° Elevation: -1 dBi typical • Temperature Coefficient: 20 ppm/°C max. (-40°C to 105°C)



TK5150-ND (DAK1575MS50T)...........................$9.45

YAGEO AMERICA Surface Mount Ceramic Antennas

Specifications: • Polarization: Linear • Azimuth: Omni-directional • Impedance: 50Ω • Operating Temperature: -55°C~125°C • Termination: Ni/Sn Environmentally-Friendly Leadless

Fig. 1

Multilayer Ceramic Antenna

870 MHz Linear Polarization Mode

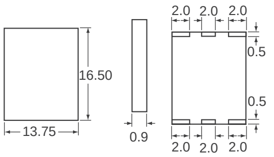


Fig. 2

Multilayer Ceramic Antenna for Global Position Systems

1.575 GHz Linear Polarization Mode

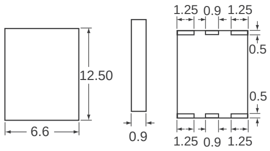


Fig. 3

Multilayer Ceramic Antenna for Bluetooth and WLAN IEEE 802.11b

2.45 GHz ISM Band

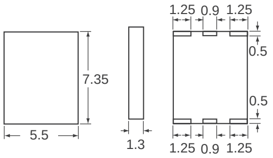


Fig. 4

Multilayer Ceramic Antenna for Bluetooth and WLAN IEEE 802.11b

2.45 GHz ISM Band Long Shape

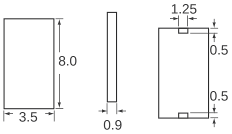


Fig. 5

Multilayer Ceramic Wideband Antenna for WLAN IEEE 802.11a

5GHz ISM Band

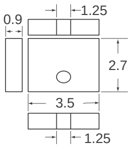


Fig. 6

Multilayer Ceramic Antenna for Bluetooth/WLAN IEEE 802.11b and WLAN IEEE 802.11a

2.45/5.2GHz SMD Ceramic Dual Band Antenna

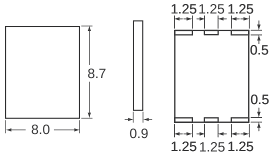


Fig. 7

Multilayer Ceramic Antenna 1.88GHz/2.1GHz (Linear Polarization Mode)

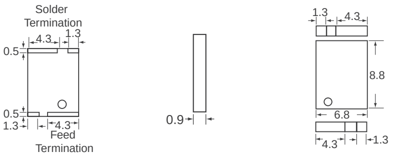


Fig. 8

Multilayer Ceramic Antenna for EGSM/DCS (900/1800MHz)

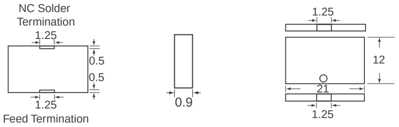


Fig.	Working Frequency	Bandwidth MHz	Gain (dBi Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Pricing	Yageo America Part No.
1	870 MHz	100	1.5	311-1224-1-ND	2.80	2.40	2.20	2.00	311-1224-2-ND	1600.00/1000	4311-119-00087
2	1.579 GHz	100	1.5	311-1225-ND*	2.80	2.40	2.20	2.00	—	—	4311-114-00158
3	2.450 GHz	100	1.2	311-1226-1-ND	4.55	3.90	3.58	3.25	311-1226-2-ND	2600.00/1000	4311-111-00245
4	2.450 GHz	100	0	311-1227-1-ND	4.73	4.05	3.72	3.38	311-1227-2-ND	2700.00/1000	4311-115-00245
5	5.2 GHz	200	4.0	311-1230-1-ND	4.55	3.90	3.58	3.25	311-1230-2-ND	5200.00/2000	4311-127-00500
6	2.45GHz / 5.20GHz	100	0	311-1229-1-ND	8.75	7.50	6.88	6.25	311-1229-2-ND	5000.00/1000	4311-117-00252
7	1.88GHz/2.1GHz	100	2	311-1232-1-ND	4.73	4.05	3.72	3.38	311-1232-2-ND	2700.00/1000	4311-112-00188
8	880-960MHz/1710-1880MHz	30/170	900/1800	311-1231-ND*	7.70	6.60	6.05	5.50	—	—	4313-118-00918

* Available in bulk packaging only

Steward Surface Mount EMI Suppression Ferrite Chips

Fig. 1 – Single Line

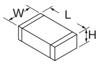


Fig. 2 – Single Line SMT

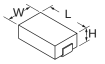
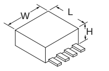


Fig. 3 – Multiline



Features: • Small footprint permits use in densely populated surface mount designs • Economical component for applications requiring discrete signal filtering **Applications:** • Filtering of power input pins of oscillators and logic devices using high speed clocks • Filtering of low frequency input/output signals entering/exiting shielded enclosures • High frequency filtering of medium speed clocks and video signals • Preventing oscillations in high frequency amplifiers

Fig.	Size Code	Dimensions - mm Length	Width	Height	Current Rating (mA)	Impedance @ 100 MHz	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape & Reel Pricing			Steward Part No.
1	0402	1.01	0.50	0.50	200	300	240-1136-1-ND*	2.73	10.92	17.50	240-1136-2-ND	448.00/8,000	1489.60/32,000	2450.00/56,000	LI0402B301R-00
					100	600	240-1142-1-ND*	3.05	12.20	19.55	240-1142-2-ND	500.48/8,000	1664.10/32,000	2737.00/56,000	HZ0402A601R-00
1	0603	1.60	0.80	0.80	1,000	60	240-1131-1-ND*	1.79	7.18	11.50	240-1131-2-ND	147.20/4,000	367.0812,000	2875.00/100,000	MI0603J600R-00
					1,000	68	240-1132-1-ND*	1.79	7.18	11.50	240-1132-2-ND	147.20/4,000	367.0812,000	2875.00/100,000	MI0603J680R-00
					700	80	240-1137-1-ND*	1.76	7.02	11.25	240-1137-2-ND	144.00/4,000	359.1012,000	2812.50/100,000	LI0603G800R-00
					700	120	240-1138-1-ND*	1.76	7.02	11.25	240-1138-2-ND	144.00/4,000	359.1012,000	2812.50/100,000	LI0603G121R-00
					500	150	240-1139-1-ND*	2.16	8.64	13.85	240-1139-2-ND	177.28/4,000	442.0912,000	3462.50/100,000	LI0603E151R-00
					700	220	240-1140-1-ND*	1.76	7.02	11.25	240-1140-2-ND	144.00/4,000	359.1012,000	2812.50/100,000	LI0603G221R-00
					400	300	240-1141-1-ND*	1.76	7.02	11.25	240-1141-2-ND	144.00/4,000	359.1012,000	2812.50/100,000	LI0603D301R-00
					300	600	240-1143-1-ND*	1.79	7.18	11.50	240-1143-2-ND	147.20/4,000	367.0812,000	2875.00/100,000	HZ0603C601R-00
					200	750	240-1144-1-ND*	2.77	11.08	17.75	240-1144-2-ND	227.20/4,000	566.5812,000	4437.50/100,000	HZ0603B751R-00
					200	1,000	240-1145-1-ND*	1.97	7.89	12.65	240-1145-2-ND	161.92/4,000	403.7912,000	3162.50/100,000	HZ0603B102R-00
1	0805	2.00	1.32	.90	4,500	31	240-1007-1-ND*	2.15	8.58	13.75	240-1007-2-ND	176.00/4,000	438.90/12,000	3437.50/100,000	HI0805Q310R-00
					500	600	240-1018-1-ND*	1.79	7.18	11.50	240-1018-2-ND	147.20/4,000	367.08/12,000	2875.00/100,000	HZ0805E601R-00
					800	150	240-1021-1-ND*	1.76	7.02	11.25	240-1021-2-ND	144.00/4,000	359.10/12,000	2812.50/100,000	LI0805H151R-00
					800	120	240-1041-1-ND*	1.76	7.02	11.25	240-1041-2-ND	144.00/4,000	359.10/12,000	2812.50/100,000	LI0805H121R-00
					800	40	240-1024-1-ND*	1.76	7.02	11.25	240-1024-2-ND	144.00/4,000	359.10/12,000	2812.50/100,000	LI0805H400R-00
					1,500	11	240-1034-1-ND*	1.97	7.89	12.65	240-1034-2-ND	161.92/4,000	403.79/12,000	3162.50/100,000	MI0805K110R-00
					1,500	40	240-1035-1-ND*	1.97	7.89	12.65	240-1035-2-ND	161.92/4,000	403.79/12,000	3162.50/100,000	MI0805K400R-00
1	1206	3.20	1.60	1.10	3,000	100	240-1008-1-ND*	2.54	10.14	16.25	240-1008-2-ND	195.00/3,000	518.70/12,000	4143.75/102,000	HI1206N101R-00
					6,000	50	240-1009-1-ND*	2.54	10.14	16.25	240-1009-2-ND	195.00/3,000	518.70/12,000	4143.75/102,000	Hi1206T500R-00
					3,000	80	240-1010-1-ND*	2.54	10.14	16.25	240-1010-2-ND	195.00/3,000	312.00/6,000	518.70/12,000	HI1206N800R-00
					500	600	240-1019-1-ND*	2.15	8.61	13.80	240-1019-2-ND	165.60/3,000	264.96/6,000	440.50/12,000	HZ1206E601R-00
					800	90	240-1026-1-ND*	2.16	8.64	13.85	240-1026-2-ND	166.20/3,000	265.92/6,000	442.09/12,000	LI1206H900R-00
					1,500	26	240-1027-1-ND*	1.97	7.89	12.65	240-1027-2-ND	151.80/3,000	242.88/6,000	403.79/12,000	LI1206K260R-00
					1,500	31	240-1036-1-ND*	2.33	9.33	14.95	240-1036-2-ND	179.40/3,000	477.20/12,000	3812.25/102,000	MI1206K310R-00
					1,500	90	240-1037-1-ND*	2.33	9.33	14.95	240-1037-2-ND	179.40/3,000	477.20/12,000	3812.25/102,000	MI1206K900R-00
1	1210	3.20	2.50	1.30	400	60	240-1029-1-ND*	4.45	17.82	28.55	—	—	—	—	LI1210E600R-00
					1,500	60	240-1038-1-ND*	3.59	14.35	23.00	240-1038-2-ND	276.00/3,000	734.16/12,000	5865.00/102,000	MI1210K600R-00
1	1612	4.06	3.05	2.28	10,000	56	240-1128-1-ND*	15.02	60.09	96.30	240-1128-2-ND	963.00/2,500	1540.80/5,000	2561.58/10,000	DM1612X560R-00
1	1806	4.50	1.60	1.60	6,000	60	240-1012-1-ND*	4.88	19.50	31.25	240-1012-2-ND	250.00/2,000	415.00/4,000	562.50/6,000	HI1806T600R
					300	150	240-1030-1-ND*	4.49	17.94	28.75	240-1030-2-ND	230.00/2,000	381.80/4,000	517.50/6,000	LI1806C151R-00
					500	100	240-1031-1-ND*	4.49	17.94	28.75	240-1031-2-ND	230.00/2,000	381.80/4,000	517.50/6,000	LI1806E101R
					500	80	240-1032-1-ND*	4.49	17.94	28.75	240-1032-2-ND	230.00/2,000	381.80/4,000	517.50/6,000	LI1806E800R
					1,000	80	240-1039-1-ND*	4.21	16.85	27.00	240-1039-2-ND	171.20/2,000	284.19/4,000	385.20/6,000	MI1806J800R
1	1812	4.50	3.20	1.50	6000	80	240-1013-1-ND*	4.88	19.50	31.25	240-1013-2-ND	312.50/2,500	500.00/5,000	831.25/10,000	HI1812T800R
					400	120	240-1033-1-ND*	4.05	16.19	25.95	240-1033-2-ND	259.50/2,500	415.20/5,000	690.27/10,000	LI1812D121R-00
					1,500	120	240-1040-1-ND*	6.46	25.83	41.40	240-1040-2-ND	414.00/2,500	662.40/5,000	1101.24/10,000	MI1812K121R
1	2220	5.59	5.08	3.30	4,000	170	240-1014-1-ND*	13.95	55.79	89.40	240-1014-2-ND	715.20/2,000	1187.23/4,000	1609.20/6,000	HI2220P171R
				3.30	4,000	250	240-1015-1-ND*	13.95	55.79	89.40	240-1015-2-ND	715.20/2,000	1187.23/4,000	1609.20/6,000	HI2220P251R
				3.30	4,000	600	240-1016-1-ND*	16.62	66.49	106.55	240-1016-2-ND	852.40/2,000	1414.98/4,000	1917.90/6,000	HI2220P601R
				3.45	6,000	100	240-1120-1-ND*	13.95	55.79	89.40	240-1120-2-ND	715.20/2,000	1187.23/4,000	1609.20/6,000	HI2220T101R-00
				3.45	5,000	150	240-1121-1-ND*	13.95	55.79	89.40	240-1121-2-ND	715.20/2,000	1187.23/4,000	1609.20/6,000	HI2220R151R-00
				3.45	5,000	180	240-1122-1-ND*	13.95	55.79	89.40	240-1122-2-ND	715.20/2,000	1187.23/4,000	1609.20/6,000	HI2220R181R-00
				1.52	4,000	270	240-1123-1-ND*	13.95	55.79	89.40	240-1123-2-ND	715.20/2,000	1187.23/4,000	1609.20/6,000	HI2220P271R-00
				3.45	5,000	300	240-1124-1-ND*	13.95	55.79	89.40	240-1124-2-ND	715.20/2,000	1187.23/4,000	1609.20/6,000	HI2220R301R-00
				3.45	4,500	400	240-1125-1-ND*	13.95	55.79	89.40	240-1125-2-ND	715.20/2,000	1187.23/4,000	1609.20/6,000	HI2220Q401R-00
				3.45	4,000	700	240-1126-1-ND*	16.62	66.49	106.55	240-1126-2-ND	852.40/2,000	1414.98/4,000	1917.90/6,000	HI2220P701R-00
				3.45	8,000	800	240-1127-1-ND*	39.00	156.00	250.00	240-1127-2-ND	2000.00/2,000	3320.00/4,000	4500.00/6,000	HR2220V801R
1	3312	8.50	3.05	2.28	10,000	100	240-1129-1-ND*	24.96	99.84	160.00	240-1129-2-ND	1600.00/2,500	2560.00/5,000	4256.00/10,000	DM3312X101R-00
2	—	8.51	3.05	2.54	5,000	100	240-1001-1-ND†	2.99	11.96	19.22	240-1001-2-ND	192.15/2,500	320.25/5,000	567.91/10,000	28F0121-1SR
	—	4.06	3.05	2.54	5,000	56	240-1002-1-ND†	2.99	11.96	19.22	240-1002-2-ND	192.15/2,500	320.25/5,000	567.91/10,000	28F0121-0SR

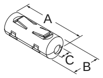
Fig.	Dimensions - mm Length	Width	Height	Lines	# of Impedance	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape & Reel Pricing			Steward Part No.
3	4.83	2.92	4.50	3	83	240-1003-1-ND	14.00	58.33	89.82	240-1003-2-ND	524.93/900	839.88/1,800	1045.65/2,700	29F0318-0SR
	8.33	6.35	10.87	3	200	240-1004-1-ND	14.49	60.38	92.98	240-1004-2-ND	271.69/450	434.70/900	541.20/1,350	29F0330-2SR
	6.10	4.19	4.50	4	119	240-1005-1-ND	14.98	62.43	96.13	240-1005-2-ND	561.83/900	898.92/1,800	1119.16/2,700	29F0418-1SR
	10.87	6.35	10.87	4	200	240-1006-1-ND	16.16	67.35	103.72	240-1006-2-ND	303.08/450	484.92/900	603.73/1,350	29F0430-2SR

240-2110-ND **SMT EMI Suppression Ferrtite Chips Kit** 10 ea of size codes 0402 - 3312* and 5 each of 240-1001-1ND† and 240-1002-1-ND† (550 total pieces) **$59.95**

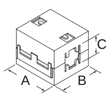
Clamp-On Ferrites

Commonly called “bisected” or “split” components, clip on parts are generally associated with after market retrofit applications or for use in gaining compliance during the testing of a product. These parts provide excellent common mode EMI suppression in round cable applications and for use with network cables.

Color	Dimensions (mm) A	B	C	Typ. Imped. @ 100 MHz	Digi-Key Part No.	Price Each 1	10	50	Steward Part No.
					Cylinder Snap				
White	29.3	12.8	5.3	131Ω	240-2068-ND	1.07	.89	.77	28A0392-0A0
Black	29.3	12.8	5.3	131Ω	240-2070-ND	1.07	.89	.77	28A0392-0A2
White	40.38	19.18	9.02	199Ω	240-2065-ND	1.97	1.64	1.41	28A0640-0A0
Black	40.38	19.18	9.02	199Ω	240-2066-ND	1.97	1.64	1.41	28A0640-0A2
					Box Snap				
White	32.5	17.9	7.0	151Ω	240-2074-ND	1.90	1.58	1.36	28A2025-0A0
Black	32.5	17.9	7.0	151Ω	240-2075-ND	1.90	1.58	1.36	28A2025-0A2
White	32.5	21.5	10.0	209Ω	240-2076-ND	2.36	1.96	1.69	28A2029-0A0
Black	32.5	21.5	10.0	209Ω	240-2077-ND	2.36	1.96	1.69	28A2029-0A2
White	32.5	29.0	13.0	234Ω	240-2072-ND	3.77	3.13	2.70	28A2024-0A0
Black	32.5	29.0	13.0	234Ω	240-2073-ND	3.77	3.13	2.70	28A2024-0A2



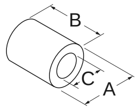
Cylinder Snap: A tube ferrite snap-on assembly designed for wires or small diameter cable.



Box Snap: A box shaped clip on ferrite assembly.

Tubular Bead

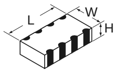
A solid ferrite EMI tubular bead for use in high volume applications where a plastic snap on a case is not required. Can be used in high volume over-mold applications where it is desired to have the filter molded in the same material as the connector backshell; or can be covered with heat shrink and shrunk in place.



Dimensions (mm) A	B	C	Typical Impedance @ 100 MHz	Digi-Key Part No.	Price Each 1	10	50	Steward Part No.
				Tubular Bead				
9.53	14.48	5.08	112Ω	240-2067-ND	.22	.18	.16	28B0375-100
14.27	28.57	6.35	275Ω	240-2078-ND	.43	.36	.31	28B0562-200
17.42	28.57	9.52	200Ω	240-2079-ND	.65	.54	.47	28B0686-200
18.67	28.57	10.16	201Ω	240-2080-ND	.85	.71	.61	28B0735-000
25.91	28.58	12.70	240Ω	240-2081-ND	1.69	1.40	1.21	28B1020-100

Surface Mount Multi-Line Chip Arrays

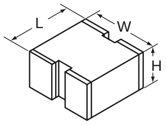
Features:
- Small footprint
- Rugged construction
- Broad range of impedance values
- Good high frequency performance (peaks well above 100 MHz)
- Lower installation cost (one pick and place motion instead of four discrete installations)



Size Code	Dimensions - mm Length	Width	Height	Filtered Circuits	Current Rating iMax (mA)	Impedance @ 100 MHz	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape & Reel Pricing			Steward Part No.
1206	3.20	1.60	1.10	4	500	30	240-1146-1-ND	1.17	.94	.75	240-1146-2-ND	900.00/3,000	1440.00/6,000	2394.00/12,000	DA1206E300R-00
					300	120	240-1147-1-ND	1.17	.94	.75	240-1147-2-ND	900.00/3,000	1440.00/6,000	2394.00/12,000	DA1206C121R-00
					400	300	240-1148-1-ND	1.17	.94	.75	240-1148-2-ND	900.00/3,000	1440.00/6,000	2394.00/12,000	DA1206D301R-00
					200	600	240-1149-1-ND	1.17	.94	.75	240-1149-2-ND	900.00/3,000	1440.00/6,000	2394.00/12,000	DA1206B601R-00
					200	1000	240-1150-1-ND	1.33	1.07	.85	240-1150-2-ND	1020.00/3,000	1632.00/6,000	2713.20/12,000	DA1206B102R-00

Steward Common Mode Chokes

Fig. 1



Features: • Monolithic • Compact size • High current carrying capability (up to 10A continuous) • Excellent ultra-high performance • Very low DCR to minimize signal distortion • Smaller, lighter and less susceptible to vibration than old-style wire-wound chokes

Fig. 2

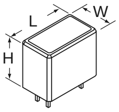
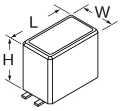


Fig. 3



Features: • High current capability (10A continuous operation) • Compact size • Up to 170 Ohms impedance @ 100MHz or 300 ohms @ 1GHz • Parts available in both thru-hole (B) and surface mount (R) versions • Parts available in broad band and high frequency materials • Economical common mode EMI filtering

Fig. 4

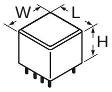
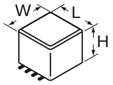
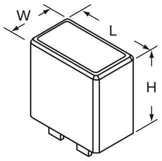


Fig. 5



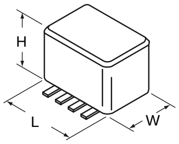
Features: • High current carrying capability (10A continuous operation) • Can be used as multi-turn device to multiply impedance • With two turns, up to 800 ohms impedance at 300 MHz • Available in both thru-hole (B) and surface mount (R) versions • The most economical common mode filter available for filtering groups of signals • Available in broad band and high frequency materials

Fig. 6



Features: • Ul 1950 compliant for creepage • Very high current capability • Small footprint • Low clearance height • Low cost • Parts available in broad band and high frequency materials • Lighter smaller and less susceptible to vibration than older wire-wound chokes

Fig. 7

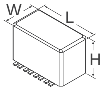


Features: • Provides an effective EMI solution for filtering Data/Power modular connectors • CM 2718 for use with standard 4 line single module application • CM3813 for use with 6 line single module applications (4 line data and 2 line power) • Low cost • Smallest footprint EMI solution available on the market today

Fig.	Size Code	Dimensions (mm)			Current Rating iMax (mA)	Impedance @ 100 MHz	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing			Steward Part No.
		Length	Width	Height				1	10	50	100					
Low Profile Surface Mount - Monolithic																
1	3322	8.50	5.60	2.10	4,000	40	240-1101-1-ND	—	1.89	1.51	1.21	240-1101-2-ND	1207.50/2,500	1932.00/5,000	3211.95/10,000	CM3322P400R-00
	3322	8.50	5.60	2.10	7,000	61	240-1102-1-ND	—	1.89	1.51	1.21	240-1102-2-ND	1207.50/2,500	1932.00/5,000	3211.95/10,000	CM3322U610R-00
	3322	8.50	5.60	2.84	10,000	63	240-1103-1-ND	—	1.89	1.51	1.21	240-1103-2-ND	1207.50/2,500	1932.00/5,000	3211.95/10,000	CM3322X630R-00
	1922	4.70	5.60	2.84	10,000	33	240-1104-1-ND	—	1.44	1.15	.92	240-1104-2-ND	920.00/2,500	1472.00/5,000	2447.20/10,000	CM1922X330R-00
High Power Surface Mount																
3	2545	11.38	6.30	9.32	10,000	170	240-1106-1-ND	—	2.17	1.74	1.39	240-1106-2-ND	222.24/400	553.38/1,200	1166.76/2,800	CM2545X171R-00
5	4545	11.38	11.38	9.32	10,000	130	240-1108-1-ND	—	2.87	2.30	1.84	240-1108-2-ND	294.40/400	733.06/1,200	1545.60/2,800	CM4545Z131R-00
High Current Thru Hole																
2	2545	11.38	6.30	9.32	10,000	170	240-1105-ND	1.50	1.38	1.15	.89	—	—	—	—	CM2545X171B-00
4	4545	11.38	11.38	9.32	10,000	130	240-1107-ND	1.76	1.63	1.36	1.05	—	—	—	—	CM4545Z131B-00
Ultra High Current Thru Hole																
6	5441	13.72	10.41	15.24	55,000	160	240-1109-ND	3.14	2.90	2.42	1.86	—	—	—	—	CM5441Z161B-00
	5441	13.72	10.41	10.52	55,000	100	240-1110-ND	2.99	2.76	2.30	1.78	—	—	—	—	CM5441Z101B-00
Slim Line Surface Mount																
7	2718	6.99	4.72	7.75	—	120	240-1112-1-ND	—	1.87	1.50	1.20	240-1112-2-ND	238.80/500	396.41/1,000	895.50/2,500	CM2718R121R-00
	2718	6.99	4.72	13.72	—	200	240-1113-1-ND	—	3.04	2.43	—	240-1113-2-ND	145.80/150	466.56/600	677.68/1,050	CM2718R201R-00
	3818	9.80	4.72	7.75	—	120	240-1114-1-ND	—	2.02	1.62	1.30	240-1114-2-ND	206.72/400	514.73/1,200	1085.28/2,800	CM3818R121R-00
	3818	9.80	4.70	13.72	—	200	240-1115-1-ND	—	4.10	3.28	—	240-1115-2-ND	196.80/150	629.76/600	914.73/1,050	CM3818R201R-00

Surface Mount Common Mode Choke Arrays

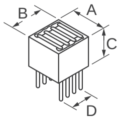
Features:
- Surface mount design
- Filters groups of signals
- Can be used as multi-turn device to multiply impedance
- With 2 turns, over 1000 ohms impedance @ 100 MHz
- Will fit behind an RJ45 jack
- High continuous operating current carrying capability
- Available in broad band and high frequency materials



Size Code	Dimensions - mm			Filtered Circuits	Current Rating iMax (mA)	Impedance @ 100 MHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing			Steward Part No.
	Length	Width	Height					10	50	100					
3032	7.62	8.13	9.45	4	8,000	200	240-1116-1-ND	2.75	2.20	1.76	240-1116-2-ND	219.94/250	351.90/500	584.15/1,000	CM3032V201R-00
			14.48			300	240-1118-1-ND	3.30	2.64	—	240-1118-2-ND	105.73/100	422.90/500	702.01/1,000	CM3032V301R-00
4732	11.94	8.13	9.45	6	8,000	200	240-1117-1-ND	3.39	2.71	2.17	240-1117-2-ND	346.88/400	863.73/1,200	1300.80/2,000	CM4732V201R-00
			14.48			300	240-1119-1-ND*	4.00	3.20	—	240-1119-2-ND*	191.93/150	614.16/600	892.07/1,050	CM4732V301R-00

* High Frequency Material

Through-Hole Suppression Ferrite Chips



No. of Lines	Dimensions (mm)				Impedance	Digi-Key Part No.	Price Each		Steward Part No.
	A	B	C	D			1	10	
4	10.87	10.87	10.13	7.62	342	240-2001-ND	.72	.60	29F0428-0T0
4	10.87	5.49	10.01	2.54	285	240-2002-ND	.54	.45	29F0429-0T0
5	13.41	10.87	10.13	7.62	342	240-2003-ND	.86	.71	29F0528-0T0

Ribbon Cable Ferrites

Ribbon Cable Solids: Rectangular shaped solid ferrites for ribbon cable, flat cable and flex cable. Note: Ribbon cable must be slid through the solid ferrite before ends are connected.

Vinyl Dipped Ribbon Cable Solid: Rectangular shaped solid ferrite for ribbon cable, flat cable and flex cable. The ferrite is vinyl dipped to protect it from chipping and keep it from damaging other components.

Ribbon Cable Clip-On with Plastic Mounting Kit: Split ferrites for ribbon cable press fit into the plastic clamp ends protecting the ferrite and providing for secure retention. The plastic mounting clamps are designed to be attached with rivets, screws, nylon or other hardware.

Ribbon Cable Clip-On with Metal Clips: Split ferrites for ribbon cable clamp together with metal clips providing for secure retention of the two halves of ferrite.

Fig. 1
Solid Ferrite

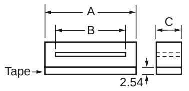
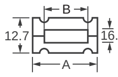
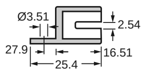


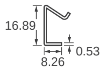
Fig. 2
Split Ferrite



Plastic Mounting Clip



Metal Clip



Max # Cond.	Dimensions (mm)			Typ. Imped. @ 100 MHz	Digi-Key Part No.	Price Each			Steward Part No.
	A	B	C			1	10	50	
Fig. 1 Ribbon Cable Ferrites Solid									
10	22.35	14.00	19.05	171Ω	240-2082-ND	.60	.50	.43	28R0880-000
20	38.35	26.67	25.40	231Ω	240-2084-ND	1.54	1.28	1.11	28R1517-000
26	45.08	34.42	28.58	293Ω	240-2086-ND	2.14	1.78	1.54	28R1775-000
34	55.12	43.69	25.40	309Ω	240-2090-ND	2.42	2.01	1.73	28R2170-000
34	55.12	43.69	12.70	176Ω	240-2092-ND	1.25	1.04	.90	28R2170-100
40	63.50	52.07	28.58	295Ω	240-2088-ND	3.05	2.53	2.18	28R1779-000
50	80.01	68.58	12.70	93Ω	240-2094-ND	1.64	1.36	1.17	28R3149-000
Fig. 1 Vinyl Dipped Ribbon Cable Ferrites Solid									
10	22.35	14.00	19.05	171Ω	240-2083-ND	5.36	4.44	3.83	28R0880-00V
34	55.12	43.69	25.40	309Ω	240-2091-ND	10.15	8.41	7.25	28R2170-00V
34	55.12	43.69	12.70	176Ω	240-2093-ND	11.06	9.17	7.90	28R2170-10V

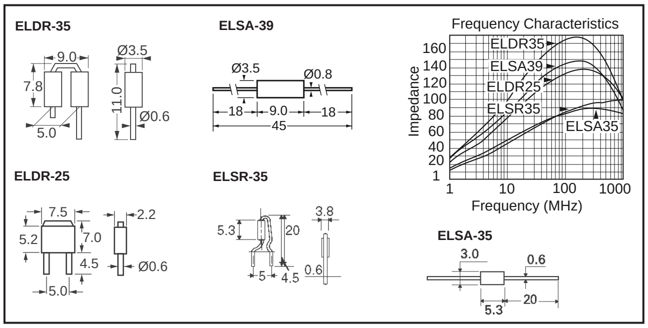
Max # Cond.	Dimensions (mm)			Typ. Imped. @ 100 MHz	Digi-Key Part No.	Price Each			Steward Part No.
	A	B	C			2	10	50	
*Fig. 2 Ribbon Cable Split Ferrite with Plastic Clip **									
26	45.09	34.42	—	366Ω	240-2103-ND	1.73	1.44	1.24	28S2022-0P0
40	63.50	52.07	—	278Ω	240-2097-ND	2.16	1.79	1.54	28S2001-0P0
50	76.20	65.28	—	263Ω	240-2099-ND	2.29	1.90	1.64	28S2011-0P0
60	88.90	78.23	—	263Ω	240-2101-ND	2.91	2.41	2.08	28S2012-0P0
*Fig. 2 Ribbon Cable Split Ferrite with Metal Clip **									
20	38.10	26.67	—	245Ω	240-2104-ND	1.21	1.01	.87	28S2023-0M0
26	45.09	34.42	—	366Ω	240-2102-ND	1.54	1.27	1.10	28S2022-0M0
40	63.50	52.07	—	278Ω	240-2096-ND	1.96	1.63	1.41	28S2001-0M0
50	76.20	65.28	—	263Ω	240-2098-ND	2.09	1.74	1.50	28S2011-0M0
60	88.90	78.23	—	263Ω	240-2100-ND	2.72	2.25	1.94	28S2012-0M0

* Note: Requires 2 pieces per unit.

Panasonic

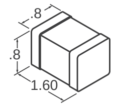
EMI Bead Cores (For Electromagnetic Interference)

SPECIFICATIONS: • DC Resistance: 10mΩ maximum • **Insulation Resistance:** 10MΩ min.



Description	Imp. (Ω) 100 MHz	Digi-Key Part No.	Pricing 10	100	1,000	2,000	Panasonic Part No.
Radial Dual Type (Tape & Box)	140 min.	P9817TB-ND	—	—	88.00	—	EXC-ELDR35V
Radial Dual Type (Bulk)	140 min.	P9817BK-ND	1.79	14.58	—	—	EXC-ELDR35C
Axial Single Type (Tape & Box)	110 min.	P9818TB-ND	—	—	58.00	—	EXC-ELSA39V
Axial Single Type (Bulk)	110 min.	P9818BK-ND	1.27	10.34	—	—	EXC-ELSA39
Radial Dual Type (Tape & Box)	100 min.	P9819TB-ND	—	—	—	82.00/M	EXC-ELDR25V
Radial Dual Type (Bulk)	100 min.	P9819BK-ND	1.79	14.58	118.00	—	EXC-ELDR25C
Axial Single Type (Tape & Box)	60 min.	P9820TB-ND	—	—	58.00	—	EXC-ELSA35V
Axial Lead Type (Bulk)	60 min.	P9820BK-ND	1.27	8.78	—	—	EXC-ELSA35
Radial Single Type (Tape & Box)	60 min.	P9821TB-ND	—	—	58.00	—	EXC-ELSR35T
Radial Form Type (Bulk)	60 min.	P9821BK-ND	1.27	8.78	—	—	EXC-ELSR35S

Surface Mount Bead Cores 0603



FEATURES: EXC-3BB Series • High impedance for high speed signal line • Increase the A characteristics sharply above 40MHz and is applicable for radiated noise in the 100MHz to 300MHz range **EXC-3BP Series** • Reduced DC resistance for EMI suppression • High current rating • Effective noise suppression at high frequency, up to 2GHz

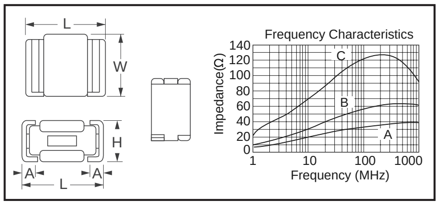
APPLICATIONS: Clock line, signal line, I/O interface circuit

Imp. 100 MHz (Ω)±25%	I (mA)	Rdc (Ω)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
220	150	0.5	P10188CT-ND	.16	.11	.07	P10188TR-ND	45.00/M	EXC-3BB221H
600	100	0.8	P10189CT-ND	.16	.11	.07	P10189TR-ND	45.00/M	EXC-3BB601H
1000	50	1	P10190CT-ND	.16	.11	.07	P10190TR-ND	45.00/M	EXC-3BB102H
60	1000	0.07	P10749CT-ND	.18	.13	.09	P10749TR-ND	66.00/M	EXC-3BP600H
120	500	0.1	P10750CT-ND	.18	.13	.09	P10750TR-ND	66.00/M	EXC-3BP121H

Surface Mount Bead Cores

SPECIFICATIONS:

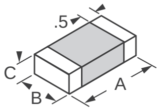
- **Tolerance:** ±25%
- **Test Frequency:** 100MHz
- **Rated Current:** 2 (A)
- **Flow/ Reflow Soldering**



Dia.	Imp. (ohm)	Dimensions (mm) L	W	H	A	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	10,000	Panasonic Part No.
A	25	3.2	1.6	1.6	0.5	P9810CT-ND	.41	.31	P9810TR-ND	173.00/M	160.00/M	EXC-CL3216U1
B	45	3.2	2.5	1.6	0.5	P9811CT-ND	.53	.39	P9811TR-ND	221.00/M	205.00/M	EXC-CL3225U1
C	115	4.5	3.2	1.8	0.5	P9812CT-ND	.62	.46	P9812TR-ND	—	240.00/M	EXC-CL4532U1

Surface Mount Bead Cores

High Current



FEATURES: Super small, high self-resonant frequency and excellent tolerance.

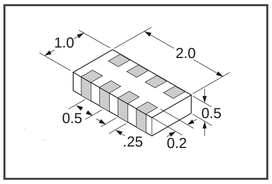
SPECIFICATIONS: • Tolerance: ±25% • **Test Frequency:** 100Mhz

Size	Imp (Ω)	I (A)	Rdc Max. (mΩ)	Dim. (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Tape and Reel Pricing* 3,000	4,000	Panasonic Part No.
0603	27	4	6	1.6	.8	.8	P10436CT-ND	.27	.19	.13	—	87.00/M	EXC-ML16A270U
0805	39	4	8	2.0	1.2	.9	P10191CT-ND	.27	.19	.13	—	87.00/M	EXC-ML20A390U
1206	68	3	12	3.2	1.6	.9	P10437CT-ND	.26	.19	.14	102.00/M	—	EXC-ML32A680U
1806	91	3	16	4.5	1.6	1.1	P11956CT-ND	.29	.21	.15	121.00/M	—	EXC-ML45A910H

*For Tape and Reel number, change CT to TR.

Surface Mount Bead Cores

0804 (0402x4)



FEATURES: .02 inch (0.51mm) height, lightweight (typically only 5mg), narrow pitch, compatible with SSOP pitch

EXC-28BB Series: Suitable for high speed signals (over 50Mhz), excellent cross talk characteristics (100Mhz: <-25dB) **Applications:** PC, LCD, DSC, Printer, PDA, MD, CD, NAVI

EXC-28BA Series: Suitable for ring suppression while maintaining wave form, excellent cross talk characteristics (100Mhz: <-30dB) **Applications:** HDD, E-IDE (Ultra DMA 33), DVD, CD-ROM, C-DR, CDR-RW

Imp. 100 MHz (Ω)±25%	I (mA)	Rdc (Ω)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 5,000	Panasonic Part No.
120	100	0.5	P10751CT-ND	.71	.52	.38	P10751TR-ND	298.00/M	EXC-28BB121U
220	100	0.7	P10752CT-ND	.71	.52	.38	P10752TR-ND	298.00/M	EXC-28BB221U
120	100	0.5	P10753CT-ND	.71	.52	.38	P10753TR-ND	298.00/M	EXC-28BA121U
200	100	0.7	P10754CT-ND	.71	.52	.38	P10754TR-ND	298.00/M	EXC-28BA221U

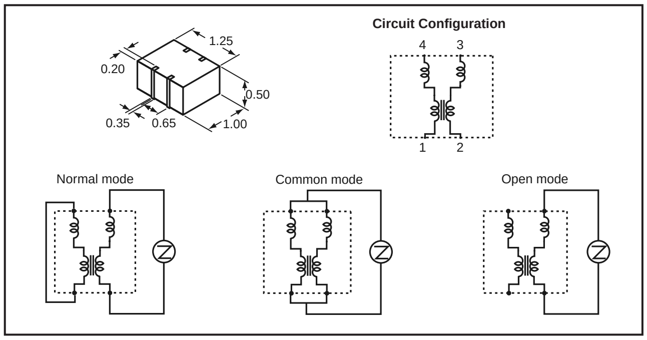
Surface Mount 2 Mode Noise Filters

EXC-24CB and EXC-24CP Series

FEATURES: • Acoustic quality improvement of mobile phone and portable audio equipment • Effectively suppresses both common mode noise and normal mode noise • Small size and light weight

APPLICATIONS: • Receiver line, microphone line and headset of mobile phone (GSM, TDMA, PDC, etc.) • Small digital equipment such as personal computers, printer, HDD, DVD-ROM, CD-ROM and LCD • Digital audio and video equipment such as PDA, DSC, DVC, CD Player, DVD Player and MD Player

SPECIFICATIONS: • Tolerance: ±25% • **Rated Voltage**: 5 VDC



Open Mode Impedance @100MHz (Ω)	Rated Current (mA DC)	DC Resist. Max.(Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 4,000	5,000	Panasonic Part No.
1000	50	1.5	P11169CT-ND	.68	.51	.38	215.00/M	—	EXC-24CB102U
220	100	0.7	P11170CT-ND	.68	.51	.38	—	215.00/M	EXC-24CB221U
220	350	0.4	P11598CT-ND	.71	.53	.39	—	223.00/M	EXC-24CP221U
120	500	0.3	P11597CT-ND	.71	.53	.39	—	223.00/M	EXC-24CP121U

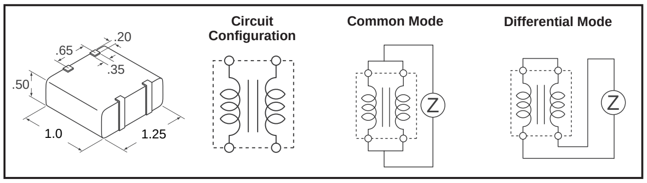
* For Tape and Reel part number, change CT to TR.

Common Mode Noise Filter

EXC-24CC Series

FEATURES: • Effective in noise suppression of portable equipment • Magnetic shield type • Small size and light weight, about 3 mg

APPLICATIONS: • Digital audio and video equipment such as PDA, DSC, DVC, CD Player, DVD Player, MD Player • USB data line of mobile phone (IMT2000) • Small digital equipment such as personal computers



Imp. @100MHz (Ω) Common Mode	Diff-erential Mode	Rated Volt. (VDC)	Rated Current (mA DC)	DC Resist. Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 5,000	Panasonic Part No.
270 Typ.	160 max.	5	100	1.5	P11599CT-ND	.62	.47	.35	196.00/M	EXC-24CC271U

* For Tape and Reel part number, change CT to TR.

Panasonic® Ring Core Ferrites TT Series

Applications: General purpose noise reduction, such as for power circuits, motor areas, and TV circuits.
Measuring Wire: UL1015 AWG #14, 100mm, 1turn

Fig. 1

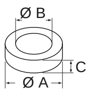


Fig. 2

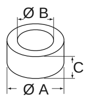


Fig. 3

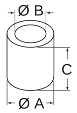


Fig.	Dimensions (mm) A	B	C	Typical Impedance 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	12.0	8.0	5.5	20Ω	27Ω	42Ω	P11364-ND	.41	.30	.20	KR16TT120805
	13.0	7.1	6.3	30Ω	40Ω	55Ω	P11366-ND	.49	.36	.24	KR16TT130706
	16.0	12.0	8.0	20Ω	30Ω	45Ω	P11372-ND	.49	.36	.24	KR16TT161208
	18.0	10.0	6.0	30Ω	40Ω	55Ω	P11373-ND	.62	.45	.30	KR16TT181006
	18.0	10.0	10.0	35Ω	50Ω	80Ω	P11374-ND	.66	.48	.32	KR16TT181010
	18.5	10.0	8.0	42Ω	51Ω	68Ω	P11375-ND	.57	.42	.28	KR16TT191008
	18.5	10.0	10.0	35Ω	50Ω	80Ω	P11376-ND	.62	.45	.30	KR16TT191010
	20.5	10.6	10.3	55Ω	65Ω	80Ω	P11378-ND	.70	.51	.34	KR16TT201110
	20.5	10.6	12.0	65Ω	75Ω	95Ω	P11379-ND	.74	.54	.36	KR16TT201112
	22.0	14.0	6.0	25Ω	30Ω	48Ω	P11380-ND	.62	.45	.30	KR16TT221406
	22.0	14.0	10.0	35Ω	45Ω	60Ω	P11381-ND	.78	.57	.38	KR16TT221410
	25.0	15.0	8.0	35Ω	44Ω	64Ω	P11382-ND	1.07	.78	.52	KR16TT251508
	25.0	15.0	12.0	35Ω	50Ω	80Ω	P11383-ND	1.19	.87	.58	KR16TT251512
	28.5	18.0	7.5	30Ω	40Ω	60Ω	P11385-ND	.90	.66	.44	KR16TT281807
	28.5	18.0	15.0	53Ω	67Ω	88Ω	P11386-ND	1.52	1.11	.74	KR16TT281815
2	9.0	6.0	10.0	30Ω	38Ω	56Ω	P11361-ND	.49	.36	.24	KR16TT090610
	9.5	4.9	10.4	40Ω	50Ω	70Ω	P11362-ND	.57	.42	.28	KR16TT100510
	12.0	8.0	15.0	35Ω	50Ω	80Ω	P11365-ND	.49	.36	.24	KR16TT120815
	16.0	9.0	18.0	80Ω	95Ω	110Ω	P11370-ND	.94	.69	.46	KR16TT160918
	26.0	13.0	29.0	155Ω	170Ω	160Ω	P11384-ND	2.34	1.71	1.14	KR16TT261329
3	10.7	6.4	20.0	72Ω	88Ω	110Ω	P11363-ND	.82	.60	.40	KR16TT110620
	14.3	6.4	20.0	120Ω	140Ω	140Ω	P11367-ND	.90	.66	.44	KR16TT140620
	14.3	6.4	28.6	200Ω	220Ω	175Ω	P11368-ND	1.19	.87	.58	KR16TT140629
	16.0	7.8	28.0	150Ω	180Ω	170Ω	P11369-ND	1.31	.96	.64	KR16TT160828
	16.0	9.0	28.0	120Ω	140Ω	140Ω	P11371-ND	1.39	1.02	.68	KR16TT160928
	18.5	10.0	29.0	130Ω	150Ω	150Ω	P11377-ND	1.52	1.11	.74	KR16TT191029

Flat Cable Core Ferrites FP Series

Applications: Noise reduction for flat cables. **Measuring Wire:** • 1 – 1UEW 0.5, 50mm, 1turn • 2 – UL1007 AWG26, 65mm, 1turn • 3 – 1UEW 0.5, 100mm, 1turn

Fig. 1

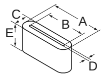


Fig. 2

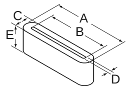


Fig. 3

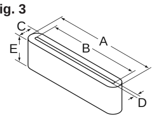


Fig.	Measuring Wire	Dimensions (mm) A	B	C	D	E	Typical Impedance 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	1	22.5	17.5	6.0	1.0	10.3	32Ω	40Ω	56Ω	P11387-ND	.82	.60	.40	KR16FP220610
2	3	33.5	27.0	6.5	1.3	10.0	28Ω	38Ω	73Ω	P11388-ND	.86	.63	.42	KR16FP340710
	2	33.5	28.5	7.5	2.5	12.0	25Ω	32Ω	53Ω	P11389-ND	.90	.66	.44	KR16FP340812
	2	36.0	31.0	6.5	1.5	9.0	23Ω	30Ω	48Ω	P11390-ND	.86	.63	.42	KR16FP360709
3	2	40.0	34.8	6.5	1.3	10.0	24Ω	34Ω	65Ω	P11391-ND	1.03	.75	.50	KR16FP400710
	3	45.2	40.0	6.5	1.3	12.0	28Ω	40Ω	83Ω	P11392-ND	1.15	.84	.56	KR16FP450712

Ring Core with Casing Ferrites TA and TB Series

Applications: Low frequency noise reduction. TB Series has Fixed Hole. **Material of Case:** PP
Measuring Wire: UL1015 AWG #14, 100mm, 1turn

Fig. 1

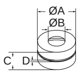


Fig. 2

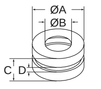


Fig. 3

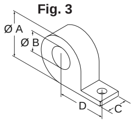


Fig.	Case Color	Dimensions (mm) A	B	C	D	Typical Impedance Ω / MHz			Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
						TA Series							
1	White	19.6	8.7	11.0	1.0*	35/30	50/50	80/100	P11398-ND	1.15	.84	.56	KR16TA191010W
2	White	26.5	13.5	14.0	3.0*	35/30	50/50	80/100	P11399-ND	1.68	1.23	.82	KR16TA251512W
2	Black	26.5	13.5	14.0	3.0*	20/1	18/5	14/10	P11400-ND	1.80	1.32	.88	KR50TA251512B1
						TB Series							
3	Black	29.5	13.4	13.5	23.0	35/30	50/50	80/100	P11401-ND	2.34	1.71	1.14	KR16TB251512B1

* Maximum

Snap-On Core Ferrites

KRCB Series

Applications: Noise reduction on AC power cable for PC's and other electronic devices. Their "snap-on" construction allows for easy installation at any point in the production cycle. **Material of Case:** Nylon 66 **Material of Core:** KR16 **Measuring Wire:** UL1015 AWG #14, 100mm, 1turn

Fig. 1

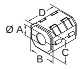


Fig. 2

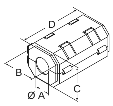


Fig. 3

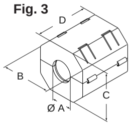
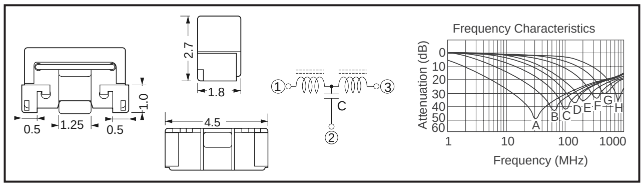


Fig.	Case Color	Dimensions (mm) A	B	C	D	Typical Impedance 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	Black	6.5	19.0	15.5	21.0	35Ω	50Ω	80Ω	P11393-ND	1.39	1.02	.68	KRCBC130714B
	White	6.5	19.0	15.5	21.0	35Ω	50Ω	80Ω	P11394-ND	1.48	1.08	.72	KRCBG130714
2	Black	8.5	22.0	21.0	37.0	110Ω	140Ω	140Ω	P11395-ND	2.58	1.89	1.26	KRCBC160928B
	White	8.5	22.0	21.0	37.0	110Ω	140Ω	140Ω	P11396-ND	2.46	1.80	1.20	KRCBN160928
3	Black	12.8	33.0	31.5	34.0	130Ω	160Ω	170Ω	P11397-ND	5.74	4.20	2.80	KRCBC261329B

SMT EMI Filters

SPECIFICATIONS: • 50 Volts (DC) • 2A Max

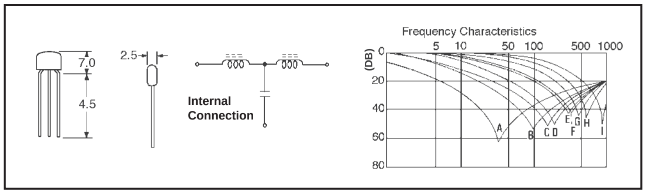


Dia.	Cap. (pF)	25dB Freq. (MHz)	15dB Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
H	22	800~1000	600~1000	P9825CT-ND	.69	.51	P9825TR-ND	289.00	EXC-CET220U
G	47	450~550	350~1000	P9826CT-ND	.69	.51	P9826TR-ND	289.00	EXC-CET470U
F	100	300~450	200~900	P9827CT-ND	.69	.51	P9827TR-ND	289.00	EXC-CET101U
E	270	200~300	80~700	P9828CT-ND	.69	.51	P9828TR-ND	289.00	EXC-CET271U
D	470	100~220	50~700	P9829CT-ND	.69	.51	P9829TR-ND	289.00	EXC-CET471U
C	1000	65~200	30~700	P9830CT-ND	.69	.51	P9830TR-ND	289.00	EXC-CET102U
B	2200	35~180	15~700	P9831CT-ND	.69	.51	P9831TR-ND	289.00	EXC-CET222U
A	10000	15~120	5~700	P9832CT-ND	.69	.51	P9832TR-ND	289.00	EXC-CET103U

EMI Filters (For Electromagnetic Interference)

APPLICATIONS: • Communication equipment, cordless phones, auto. phones • Digital audio and video equipment • Electronic auto. equipment such as engine controls, panels and audio systems • Electric musical instruments, and other digital devices

SPECIFICATIONS: • Rated Voltage (Max): P9801-P9807: 50; P9808-P9809: 16 • Tolerance: ±20% (+20% to -30% on P9808 & P9809) • Temperature Characteristics: P9801-P9807: YB (Max. capacitance change is ±10% over the temperature range of -25°C to +85°C in reference to +20°C; P9808-P9809: YD (Max. capacitance change is +20, -30% over the temperature range of -25°C to +85°C in reference to +20°C) • Rated Current (Max.): 5A



Dia.	Cap. (pF)	25dB AH. Freq. (MHz)	15dB AH. Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape & Box Pricing 2,000	Panasonic Part No.
I	22	800~1000	600~1000	P9801CT-ND	.30	.24	P9801TB-ND	134.00/M	EXC-EMT220BT
H	47	450~700	400~1000	P9802CT-ND	.30	.24	P9802TB-ND	134.00/M	EXC-EMT470BT
G	100	350~550	250~900	P9803CT-ND	.30	.24	P9803TB-ND	134.00/M	EXC-EMT101BT
F	220	250~400	150~500	P9804CT-ND	.30	.24	P9804TB-ND	134.00/M	EXC-EMT221BT
E	270	250~400	150~500	P9805CT-ND	.30	.24	P9805TB-ND	134.00/M	EXC-EMT271BT
D	470	150~350	70~500	P9806CT-ND	.30	.24	P9806TB-ND	134.00/M	EXC-EMT471BT
C	1000	100~250	50~400	P9807CT-ND	.30	.24	P9807TB-ND	134.00/M	EXC-EMT102BT
B	2200	50~200	30~400	P9808CT-ND	.30	.24	P9808TB-ND	134.00/M	EXC-EMT222DT
A	10,000	25~120	15~400	P9809CT-ND	.30	.24	P9809TB-ND	134.00/M	EXC-EMT103DT

Digital Noise Filters (ELKD Type)

FEATURES:

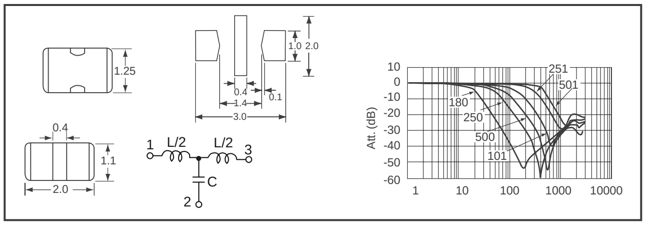
• Small size, applicable for high density mounting on the PCB • Applicable from 10MHz to 500MHz (fc) with 6 numbers • Small distortion of pulse signal and good noise reduction (Low inductance and resister type coil)

APPLICATIONS:

• Note PC • Communication equipment within busline and interface line • Digital TV • DVD • Game machine • Display and PPC within video signal line and control signal line

SPECIFICATIONS:

• Rated Current: 0.1A max. • Rated Voltage: 10V max. • Rdc: 1Ω typ. • Operating Temperature: -20°C to +85°C.



L (1~3) ±30%	C (1~2) ±30%	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 3,000	Panasonic Part No.
0.55 µH	90pF	P11348CT-ND	1.06	.79	.59	—	—	ELK-D250FB
0.25 µH	90pF	P11349CT-ND	1.06	.79	.59	—	—	ELK-D500FB
0.25 µH	25pF	P11350CT-ND	1.06	.79	.59	—	—	ELK-D101FB
0.045 µH	25pF	P11351CT-ND	1.06	.79	.59	—	—	ELK-D251FB
0.045 µH	8pF	P11352CT-ND	1.06	.79	.59	P11352TR-ND	216.00/M	ELK-D501FB

SMT Digital Noise Filters

Series K: Type E

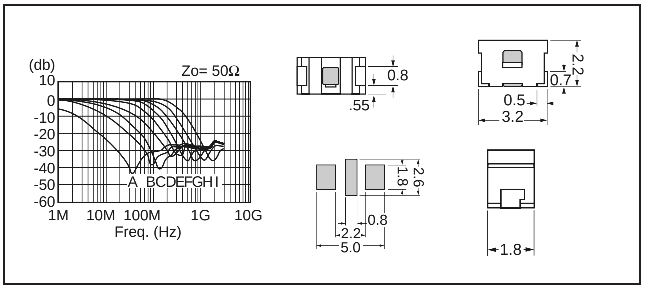
High performance noise filter for digital signal processing circuits. Wide attenuation band by low pass “T” filter constitution.

FEATURES:

• Wide attenuation band in noise signal • Minimal rounding of waveforms of the signal • High rated DC current: 2.0A • Rated Voltage VDC (V): 50 • DCR (DC Resistance Ω): 0.02 • High magnetic shielding characteristics • Selection for: high current in small size.

APPLICATIONS:

• Office automated equipment • TVs, VTRs • Communication equipment



Dia-meter	Cut-off Fre-quency	Imped-ance ZO.(Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	6,000	Panasonic Part No.
I	380	84	P9870CT-ND	.94	.71	.52	P9870TR-ND	216.00/M	208.00/M	ELK-E100FA
H	257	56	P9871CT-ND	.94	.71	.52	P9871TR-ND	216.00/M	208.00/M	ELK-E220FA
G	175	39	P9872CT-ND	.94	.71	.52	P9872TR-ND	216.00/M	208.00/M	ELK-E470FA
F	120	26	P9873CT-ND	.94	.71	.52	P9873TR-ND	216.00/M	208.00/M	ELK-E101FA
E	81	18	P9874CT-ND	.94	.71	.52	P9874TR-ND	216.00/M	208.00/M	ELK-E221FA
D	55	12	P9875CT-ND	.94	.71	.52	P9875TR-ND	216.00/M	208.00/M	ELK-E471FA
C	38	8	P9876CT-ND	.94	.71	.52	P9876TR-ND	216.00/M	208.00/M	ELK-E102FA
B	26	6	P9877CT-ND	.94	.71	.52	P9877TR-ND	216.00/M	208.00/M	ELK-E222FA
A	12	3	P9878CT-ND	.94	.71	.52	P9878TR-ND	216.00/M	208.00/M	ELK-E103FA

Digital Noise Filters

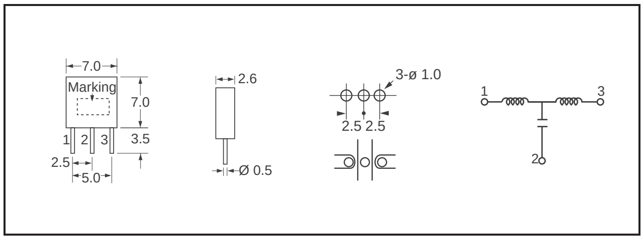
(ELKT Type)

Useful EMI noise filter when signal and noise frequency are close in frequency. T type radial lead EMI filter consisting of one capacitor and two inductors.

FEATURES: • Flat response at signal frequency and sharp noise attenuation characteristics • Minimal distortion of pulse signal wave form and excellent noise attenuation toward high frequency noise (good EMI filter for analog signal line such as video signal)

APPLICATIONS: • Reduction of EMI noise on the signal line, I/O line and DC line circuit within OA, AV, communication equipment

Replaces ELK-A series



Cut-off Freq.	Imped. Zo(Ω)	Rated Curr.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	Panasonic Part No.
2 MHz	15	100mA	P11086CT-ND	1.14	1.06	.77	—	—	ELK-TT103EA
6 MHz	150	60mA	P11087CT-ND	1.14	1.06	.77	—	—	ELK-TT331IA
10 MHz	100	90mA	P11088CT-ND	1.14	1.06	.77	P11088TB-ND	439.00	ELK-TT331FA
10 MHz	300	60mA	P11089CT-ND	1.14	1.06	.77	P11089TB-ND	439.00	ELK-TT101IA
15 MHz	50	120 mA	P11090CT-ND	1.14	1.06	.77	P11090TB-ND	439.00	ELK-TT391CA
15 MHz	200	90 mA	P11091CT-ND	1.14	1.06	.77	P11091TB-ND	439.00	ELK-TT101GA
20 MHz	100	100 mA	P11092CT-ND	1.14	1.06	.77	P11092TB-ND	439.00	ELK-TT151EA
20 MHz	300	90mA	P11093CT-ND	1.14	1.06	.77	—	—	ELK-TT470GA
20 MHz	550	60mA	P11094CT-ND	1.14	1.06	.77	P11094TB-ND	439.00	ELK-TT330IA
25 MHz	75	120 mA	P11095CT-ND	1.14	1.06	.77	P11095TB-ND	439.00	ELK-TT181CA
30 MHz	90	120mA	P11096CT-ND	1.14	1.06	.77	—	—	ELK-TT121CA
35 MHz	100	120mA	P11097CT-ND	1.14	1.06	.77	P11097TB-ND	439.00	ELK-TT820CA
35 MHz	300	90mA	P11098CT-ND	1.14	1.06	.77	P11098TB-ND	439.00	ELK-TT270FA
40 MHz	550	90mA	P11099CT-ND	1.14	1.06	.77	P11099TB-ND	439.00	ELK-TT150GA
50 MHz	100	130mA	P11100CT-ND	1.14	1.06	.77	P11100TB-ND	439.00	ELK-TT560BA
55 MHz	300	100mA	P11101CT-ND	1.14	1.06	.77	P11101TB-ND	439.00	ELK-TT180EA
60 MHz	550	90mA	P11102CT-ND	1.14	1.06	.77	—	—	ELK-TT100FA

EMI Filters (EXC-ECT Type)

FEATURES:

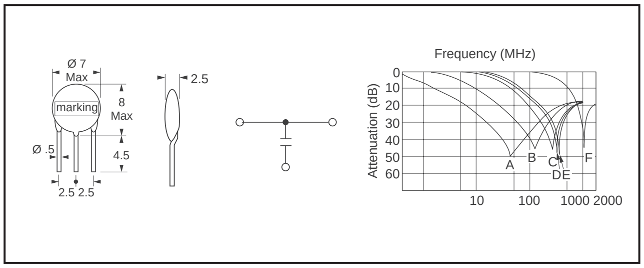
• EMI 3 Lead Capacitors are connected as T circuit and have good noise filtering characteristic for high frequency

APPLICATIONS:

• Digital equipment • Communication equipment

SPECIFICATIONS:

• Dielectric Withstanding Voltage: 125V DC • Tolerance: ±20 • Temperature Characteristics: YB

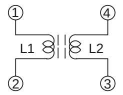


Dia.	Cap. (pF)	Voltage (DC)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape & Box Pricing 2,000	Panasonic Part No.
F	22	50	P9833CT-ND	.17	.14	—	—	EXC-ECT220MBT

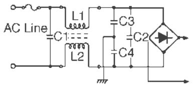
Panasonic® Line Filters

V Series (290, 450, 650, 850, 21V, 24V Types)
H Series (200, 270, 400, 600 Types)
F Series (23F, 25F Types)
M Series (11M, 14M, 16M Types)
N Series (15N, 18N, 20N Types)
High N Series (17N, 19N, 21N Types)

Standard Circuit Diag.



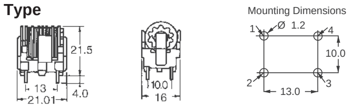
Circuit Example



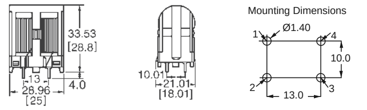
Line filters for suppressing conductive noise ranging from low to high frequencies generated from power supply circuits of various equipment

V Series (Vertical Structure): Excellent attenuation in high frequency characteristics
H Series (Horizontal Structure): Greatly decreases leakage flux
F Series (Thin Structure): 15 mm height max.
M Series (Small Structure): Small size and lightweight
N Series (Vertical Structure): Suitable for high-density automatic insertion
High N Series (High L Structure): High inductance (same size with N Series)

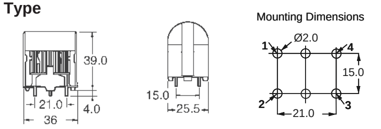
290 Type



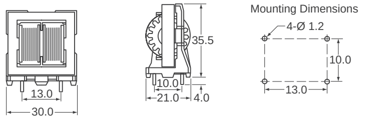
450, 650 Type Dim.: shown in [ ] are for 450 type.



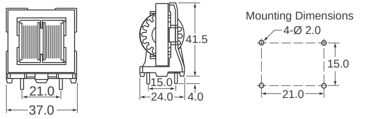
850 Type



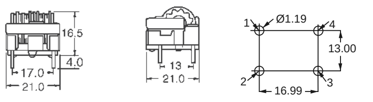
21V Type *NEW!*



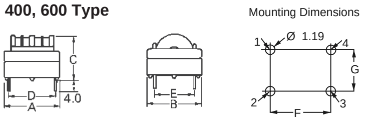
24V Type *NEW!*



270 Type

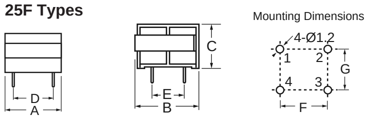


200, 400, 600 Type



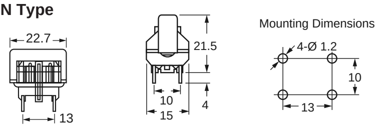
Type	A	B	C	D	E	F	G
200	20.00	21.00	20.00	13.00	10.00	13.00	10.00
400	24.00	24.50	19.50	21.00	15.00	21.00	15.00
600	28.50	29.00	22.50	24.00	20.00	24.00	20.00

23F, 25F Types

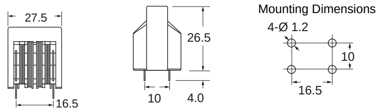


Type	A Max.	B Max.	C Max.	D	E	F	G
23F	24	23	14	16±0.5	10±0.5	16±0.1	10±0.1
25F	28	25	15	21±0.5	11±0.5	21±0.1	11±0.1

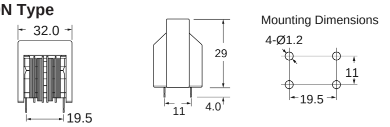
15N Type



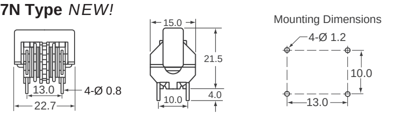
18N Type



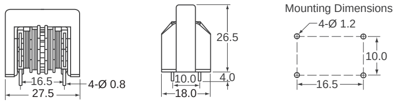
20N Type



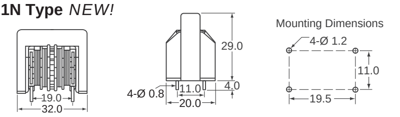
17N Type *NEW!*



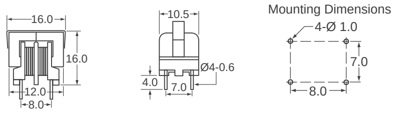
19N Type *NEW!*



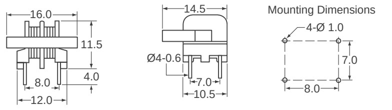
21N Type *NEW!*



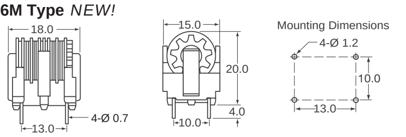
11M Type *NEW!*



14M Type *NEW!*



16M Type *NEW!*



Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
			V Series					
290	33.0	0.3	PLK1005-ND	3.36	28.80	240.00	1433.00	ELF-18D290H
	22.0	0.4	PLK1004-ND	3.36	28.80	240.00	1433.00	ELF-18D290C
	10.0	0.6	PLK1003-ND	3.36	28.80	240.00	1433.00	ELF-18D290G
	3.3	1.1	PLK1002-ND	3.36	28.80	240.00	1433.00	ELF-18D290S
	2.2	1.3	PLK1001-ND	3.36	28.80	240.00	1433.00	ELF-18D290T
	0.82	2.0	PLK1000-ND	3.36	28.80	240.00	1433.00	ELF-18D290B
450	56.0	0.45	PLK1206-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450Q
	39.0	0.50	PLK1207-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450H
	18.0	0.8	PLK1007-ND	5.68	48.69	405.75	2422.00	ELF-18D450B
	10.0	1.0	PLK1208-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450J
	8.2	1.1	PLK1209-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450G
	6.8	1.2	PLK1210-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450L
	5.6	1.4	PLK1211-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450D
	3.9	1.8	PLK1212-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450K
	2.7	2.0	PLK1006-ND	5.68	48.69	405.75	2422.00	ELF-18D450A
	2.2	2.2	PLK1213-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450C
	1.2	3.0	PLK1214-ND *NEW!*	5.68	48.69	405.75	2422.00	ELF-18D450M
650	68.0	0.6	PLK1223-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D656S
	47.0	0.7	PLK1012-ND	6.21	53.25	443.75	2649.00	ELF-18D650U
	39.0	0.7	PLK1215-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D650P
	33.0	0.8	PLK1216-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D650H
	27.0	1.0	PLK1224-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D656V
	22.0	1.0	PLK1011-ND	6.21	53.25	443.75	2649.00	ELF-18D650L
	18.0	1.0	PLK1217-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D650Q
	18.0	1.2	PLK1225-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D656Q
	15.0	1.3	PLK1226-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D656D
	12.0	1.3	PLK1218-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D650J
	12.0	1.6	PLK1038-ND	6.21	53.25	443.75	2649.00	ELF-18D656J
	10.0	1.4	PLK1219-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D650W
	8.2	1.7	PLK1010-ND	6.21	53.25	443.75	2649.00	ELF-18D650C
	6.8	1.8	PLK1220-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D650K
	6.8	2.0	PLK1227-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D656K
	5.6	2.2	PLK1228-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D656X
	4.7	2.0	PLK1221-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D650Y
	3.3	2.4	PLK1009-ND	6.21	53.25	443.75	2649.00	ELF-18D650B
	1.8	2.8	PLK1222-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D650G
	1.5	3.1	PLK1008-ND	6.21	53.25	443.75	2649.00	ELF-18D650M
	4.7	2.5	PLK1229-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D656Y
	2.7	2.7	PLK1230-ND *NEW!*	6.21	53.25	443.75	2649.00	ELF-18D656Z
	2.2	2.8	PLK1037-ND	6.21	53.25	443.75	2649.00	ELF-18D666A
850	82.0	0.8	PLK1231-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850R
	56.0	1.1	PLK1017-ND	9.82	84.18	701.50	4188.00	ELF-18D850T
	47.0	1.2	PLK1232-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850U
	33.0	1.4	PLK1233-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850H
	27.0	1.5	PLK1234-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850Z
	22.0	1.8	PLK1018-ND	9.82	84.18	701.50	4188.00	ELF-18D860C
	18.0	1.9	PLK1235-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850Q
	15.0	2.0	PLK1236-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850D
	10.0	2.5	PLK1016-ND	9.82	84.18	701.50	4188.00	ELF-18D850W
	8.2	3.0	PLK1237-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850C
	5.6	3.4	PLK1238-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850X
	4.7	3.5	PLK1015-ND	9.82	84.18	701.50	4188.00	ELF-18D850Y
	3.9	3.7	PLK1239-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D850P
	3.3	4.2	PLK1014-ND	9.82	84.18	701.50	4188.00	ELF-18D850B
	2.7	4.5	PLK1240-ND *NEW!*	9.82	84.18	701.50	4188.00	ELF-18D860B
	1.5	5.0	PLK1013-ND	9.82	84.18	701.50	4188.00	ELF-18D850M
21V	68.0	0.6	PLK1102-ND *NEW!*	4.66	39.93	332.75	1987.00	ELF-21V006A
	56.0	0.7	PLK1103-ND *NEW!*	4.66	39.93	332.75	1987.00	ELF-21V007A
	33.0	0.8	PLK1104-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V008A
	27.0	1.0	PLK1105-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V010A
	18.0	1.2	PLK1106-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V012A
	15.0	1.3	PLK1107-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V013A
	12.0	1.6	PLK1108-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V016A
	8.2	1.8	PLK1109-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V018A
	6.8	2.0	PLK1110-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V020A
	5.6	2.2	PLK1111-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V022A
	4.5	2.5	PLK1112-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V025A
	2.7	2.7	PLK1113-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V027A
	2.2	3.0	PLK1114-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-21V030A
24V	82.0	0.8	PLK1115-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V008A
	56.0	1.0	PLK1116-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V010A
	47.0	1.2	PLK1117-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V012A
	33.0	1.4	PLK1118-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V014A
	27.0	1.5	PLK1119-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V015A
	22.0	1.8	PLK1120-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V018A
	18.0	1.9	PLK1121-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V019A
	15.0	2.0	PLK1122-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V020A
	10.0	2.5	PLK1123-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V025A
	9.0	2.8	PLK1124-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V028A
	8.2	3.0	PLK1125-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V030A

(Continued)

Panasonic Line Filters *(Cont.)*

Type	Induc-tance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing				Panasonic Part No.
				1	10	100	1,000	
24V	5.6	3.4	PLK1126-ND *NEW!*	5.78	49.50	412.50	2463.00	ELF-24V034A
	4.7	3.5	PLK1127-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V035A
	3.9	3.7	PLK1128-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V037A
	3.3	4.2	PLK1129-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V042A
	2.7	4.5	PLK1130-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V045A
	1.5	5.0	PLK1131-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V050A
	0.80	7.0	PLK1132-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V070A
	0.40	8.0	PLK1133-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V080A
	0.26	9.0	PLK1134-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V090A
	0.15	10.0	PLK1135-ND *NEW!*	8.58	73.50	612.50	3657.00	ELF-24V100A
H Series								
200	68.0	0.25	PLK1247-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D222F
	47.0	0.3	PLK1248-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D235F
	33.0	0.4	PLK1024-ND	3.84	32.88	274.00	1636.00	ELF-18D221F
	22.0	0.4	PLK1021-ND	3.84	32.88	274.00	1636.00	ELF-18D218
	18.0	0.5	PLK1241-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D210
	15.0	0.5	PLK1242-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D215
	8.2	0.7	PLK1243-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D214
	6.8	0.8	PLK1244-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D225
	4.7	1.0	PLK1249-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D227F
	3.9	1.0	PLK1020-ND	3.84	32.88	274.00	1636.00	ELF-18D216
	3.3	1.0	PLK1245-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D213
	2.7	1.3	PLK1246-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D219
	2.2	1.5	PLK1023-ND	3.84	32.88	274.00	1636.00	ELF-18D228F
	1.5	1.6	PLK1019-ND	3.84	32.88	274.00	1636.00	ELF-18D217
	1.2	2.0	PLK1250-ND *NEW!*	3.84	32.88	274.00	1636.00	ELF-18D230F
	1.0	2.1	PLK1022-ND	3.84	32.88	274.00	1636.00	ELF-18D212F
270	33.0	0.3	PLK1251-ND *NEW!*	3.36	28.80	240.00	1433.00	ELF-18D270J
	22.0	0.4	PLK1252-ND *NEW!*	3.36	28.80	240.00	1433.00	ELF-18D270B
	18.0	0.5	PLK1253-ND *NEW!*	3.36	28.80	240.00	1433.00	ELF-18D270H
	10.0	0.6	PLK1254-ND *NEW!*	3.36	28.80	240.00	1433.00	ELF-18D270G
	6.8	0.7	PLK1025-ND	3.36	28.80	240.00	1433.00	ELF-18D270A
	5.6	0.8	PLK1255-ND *NEW!*	3.36	28.80	240.00	1433.00	ELF-18D270Q
	2.7	1.1	PLK1256-ND *NEW!*	3.36	28.80	240.00	1433.00	ELF-18D270D
	1.8	1.5	PLK1257-ND *NEW!*	3.36	28.80	240.00	1433.00	ELF-18D270C
400	68.0	0.4	PLK1266-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D437F
	39.0	0.5	PLK1267-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D427F
	33.0	0.5	PLK1029-ND	4.55	39.03	325.25	1942.00	ELF-18D428
	27.0	0.6	PLK1258-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D423
	22.0	0.6	PLK1259-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D422
	18.0	0.7	PLK1260-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D417
	18.0	0.8	PLK1268-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D417F
	12.0	0.9	PLK1028-ND	4.55	39.03	325.25	1942.00	ELF-18D430
	10.0	1.0	PLK1031-ND	4.55	39.03	325.25	1942.00	ELF-18D431F
	8.2	1.0	PLK1261-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D415
	6.8	1.2	PLK1262-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D412
	5.6	1.3	PLK1263-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D424
	5.6	1.4	PLK1269-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D424F
	3.9	1.5	PLK1264-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D433
	3.3	1.8	PLK1265-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D414
	2.7	2.0	PLK1270-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D434F
	2.2	2.0	PLK1027-ND	4.55	39.03	325.25	1942.00	ELF-18D416
	2.2	2.2	PLK1030-ND	4.55	39.03	325.25	1942.00	ELF-18D435F
	1.5	2.4	PLK1026-ND	4.55	39.03	325.25	1942.00	ELF-18D419
	1.2	3.0	PLK1271-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D420F
	0.56	3.4	PLK1272-ND *NEW!*	4.55	39.03	325.25	1942.00	ELF-18D441F
600	100.0	0.4	PLK1273-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D620
	68.0	0.5	PLK1274-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D607
	47.0	0.7	PLK1287-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D605F
	39.0	0.7	PLK1275-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D615
	33.0	0.8	PLK1036-ND	5.75	49.29	410.75	2452.00	ELF-18D624F
	27.0	0.8	PLK1276-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D618
	27.0	1.0	PLK1288-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D618F
	22.0	1.0	PLK1034-ND	5.75	49.29	410.75	2452.00	ELF-18D612
	18.0	1.0	PLK1277-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D606
	18.0	1.2	PLK1289-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D606F
	12.0	1.3	PLK1278-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D609
	12.0	1.6	PLK1290-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D609F
	10.0	1.4	PLK1279-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D616
	10.0	1.6	PLK1291-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D601F
	8.2	1.7	PLK1280-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D602
	5.6	1.8	PLK1281-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D603
	5.6	2.1	PLK1292-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D603F
	4.7	2.0	PLK1282-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D604
	4.7	2.5	PLK1293-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D604F
	3.9	2.2	PLK1283-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D613
	3.3	2.5	PLK1033-ND	5.75	49.29	410.75	2452.00	ELF-18D605
	2.7	2.6	PLK1284-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D611
	2.2	2.8	PLK1035-ND	5.75	49.29	410.75	2452.00	ELF-18D617F
	1.8	2.8	PLK1285-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D614
	1.5	3.1	PLK1286-ND *NEW!*	5.75	49.29	410.75	2452.00	ELF-18D610
	1.0	3.4	PLK1032-ND	5.75	49.29	410.75	2452.00	ELF-18D608
F Series								
23F	50.0	0.3	PLK1039-ND	9.85	84.39	703.25	4198.00	ELF-23F003A
	30.0	0.4	PLK1040-ND	9.85	84.39	703.25	4198.00	ELF-23F004A
	20.0	0.5	PLK1041-ND	9.85	84.39	703.25	4198.00	ELF-23F005A
	14.0	0.6	PLK1042-ND	9.85	84.39	703.25	4198.00	ELF-23F006A
	10.0	0.7	PLK1043-ND	9.85	84.39	703.25	4198.00	ELF-23F007A
	8.0	0.8	PLK1044-ND	9.85	84.39	703.25	4198.00	ELF-23F008A
	6.0	0.9	PLK1045-ND	9.85	84.39	703.25	4198.00	ELF-23F009A
	5.0	1.0	PLK1046-ND	9.85	84.39	703.25	4198.00	ELF-23F010A
	3.5	1.2	PLK1047-ND	9.85	84.39	703.25	4198.00	ELF-23F012A
	2.0	1.6	PLK1048-ND	9.85	84.39	703.25	4198.00	ELF-23F016A
	1.5	1.8	PLK1049-ND	9.85	84.39	703.25	4198.00	ELF-23F018A
	1.2	2.0	PLK1050-ND	9.85	84.39	703.25	4198.00	ELF-23F020A
	1.0	2.2	PLK1051-ND	9.85	84.39	703.25	4198.00	ELF-23F022A
25F	28.0	0.6	PLK1052-ND	11.49	98.46	820.50	4898.00	ELF-25F106A
	20.0	0.7	PLK1053-ND	11.49	98.46	820.50	4898.00	ELF-25F107A
	15.0	0.8	PLK1054-ND	11.49	98.46	820.50	4898.00	ELF-25F108A
	12.0	0.9	PLK1055-ND	11.49	98.46	820.50	4898.00	ELF-25F109A
	10.0	1.0	PLK1056-ND	11.49	98.46	820.50	4898.00	ELF-25F110A
	7.0	1.2	PLK1057-ND	11.49	98.46	820.50	4898.00	ELF-25F112A
	5.0	1.4	PLK1058-ND	11.49	98.46	820.50	4898.00	ELF-25F114A
	4.0	1.6	PLK1059-ND	11.49	98.46	820.50	4898.00	ELF-25F116A
	3.0	1.8	PLK1060-ND	11.49	98.46	820.50	4898.00	ELF-25F118A
	2.0	2.0	PLK1061-ND	11.49	98.46	820.50	4898.00	ELF-25F020A
	1.6	2.2	PLK1062-ND	11.49	98.46	820.50	4898.00	ELF-25F022A
	1.3	2.5	PLK1063-ND	11.49	98.46	820.50	4898.00	ELF-25F025A

Type	Induc-tance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing				Panasonic Part No.
				1	10	100	1,000	
NEW! M Series NEW!								
11M	30.0	0.1	PLK1136-ND	2.92	25.05	208.75	1246.00	ELF-11M010E
	12.0	0.2	PLK1137-ND	2.92	25.05	208.75	1246.00	ELF-11M020E
	6.0	0.3	PLK1138-ND	2.92	25.05	208.75	1246.00	ELF-11M030E
	3.5	0.4	PLK1139-ND	2.92	25.05	208.75	1246.00	ELF-11M040E
	2.5	0.5	PLK1140-ND	2.92	25.05	208.75	1246.00	ELF-11M050E
	1.5	0.6	PLK1141-ND	2.92	25.05	208.75	1246.00	ELF-11M060E
	1.0	0.7	PLK1142-ND	2.92	25.05	208.75	1246.00	ELF-11M070E
	0.8	0.8	PLK1143-ND	2.92	25.05	208.75	1246.00	ELF-11M080E
	0.7	0.9	PLK1144-ND	2.92	25.05	208.75	1246.00	ELF-11M090E
	0.5	1.0	PLK1145-ND	2.92	25.05	208.75	1246.00	ELF-11M100E
14M	30.0	0.1	PLK1146-ND	3.20	27.45	228.75	1366.00	ELF-14M010E
	12.0	0.2	PLK1147-ND	3.20	27.45	228.75	1366.00	ELF-14M020E
	6.0	0.3	PLK1148-ND	3.20	27.45	228.75	1366.00	ELF-14M030E
	3.5	0.4	PLK1149-ND	3.20	27.45	228.75	1366.00	ELF-14M040E
	2.5	0.5	PLK1150-ND	3.20	27.45	228.75	1366.00	ELF-14M050E
	1.5	0.6	PLK1151-ND	3.20	27.45	228.75	1366.00	ELF-14M060E
	1.0	0.7	PLK1152-ND	3.20	27.45	228.75	1366.00	ELF-14M070E
	0.8	0.8	PLK1153-ND	3.20	27.45	228.75	1366.00	ELF-14M080E
	0.7	0.9	PLK1154-ND	3.20	27.45	228.75	1366.00	ELF-14M090E
	0.5	1.0	PLK1155-ND	3.20	27.45	228.75	1366.00	ELF-14M100E
16M	28.0	0.2	PLK1156-ND	1.77	15.15	126.25	754.00	ELF-16M020A
	20.0	0.3	PLK1157-ND	1.77	15.15	126.25	754.00	ELF-16M030A
	15.0	0.4	PLK1158-ND	1.77	15.15	126.25	754.00	ELF-16M040A
	8.0	0.5	PLK1159-ND	1.77	15.15	126.25	754.00	ELF-16M050A
	7.0	0.6	PLK1160-ND	1.77	15.15	126.25	754.00	ELF-16M060A
	5.0	0.7	PLK1161-ND	1.77	15.15	126.25	754.00	ELF-16M070A
	3.5	0.8	PLK1162-ND	1.77	15.15	126.25	754.00	ELF-16M080A
	2.0	1.0	PLK1163-ND	1.77	15.15	126.25	754.00	ELF-16M100A
	1.0	1.3	PLK1164-ND	1.77	15.15	126.25	754.00	ELF-16M130A
	0.8	1.5	PLK1165-ND	1.77	15.15	126.25	754.00	ELF-16M150A
	0.6	1.7	PLK1166-ND	1.77	15.15	126.25	754.00	ELF-16M170A
	0.5	2.0	PLK1167-ND	1.77	15.15	126.25	754.00	ELF-16M200A
N Series								
15N	104.0	0.2	PLK1064-ND	2.42	20.76	173.00	1033.00	ELF-15N002A
	43.0	0.3	PLK1065-ND	2.42	20.76	173.00	1033.00	ELF-15N003A
	26.0	0.4	PLK1066-ND	2.42	20.76	173.00	1033.00	ELF-15N004A
	19.0	0.5	PLK1067-ND	2.42	20.76	173.00	1033.00	ELF-15N005A
	12.0	0.6	PLK1068-ND	2.42	20.76	173.00	1033.00	ELF-15N006A
	10.0	0.7	PLK1069-ND	2.42	20.76	173.00	1033.00	ELF-15N007A
	6.8	0.8	PLK1070-ND	2.42	20.76	173.00	1033.00	ELF-15N008A
	5.3	1.0	PLK1071-ND	2.42	20.76	173.00	1033.00	ELF-15N010A
	4.0	1.1	PLK1072-ND	2.42	20.76	173.00	1033.00	ELF-15N011A
	2.7	1.3	PLK1073-ND	2.42	20.76	173.00	1033.00	ELF-15N013A
	2.1	1.5	PLK1074-ND	2.42	20.76	173.00	1033.00	ELF-15N015A
	1.7	1.7	PLK1075-ND	2.42	20.76	173.00	1033.00	ELF-15N017A
	1.0	2.2	PLK1076-ND	2.42	20.76	173.00	1033.00	ELF-15N022A
	0.6	3.0	PLK1077-ND	2.42	20.76	173.00	1033.00	ELF-15N030A
18N	80.0	0.4	PLK1078-ND	4.67	40.05	333.75	1993.00	ELF-18N004A
	50.0	0.5	PLK1079-ND	4.67	40.05	333.75	1993.00	ELF-18N005A
	35.0	0.6	PLK1080-ND	4.67	40.05	333.75	1993.00	ELF-18N006A
	20.0	0.8	PLK1081-ND	4.67	40.05	333.75	1993.00	ELF-18N008A
	15.0	1.0	PLK1082-ND	4.67	40.05	333.75	1993.00	ELF-18N010A
	9.5	1.2	PLK1083-ND	4.67	40.05	333.75	1993.00	ELF-18N012A
	6.0	1.6	PLK1084-ND	4.67	40.05	333.75	1993.00	ELF-18N016A
	4.2	2.0	PLK1085-ND	4.67	40.05	333.75	1993.00	ELF-18N020A
	2.4	2.5	PLK1086-ND	4.67	40.05	333.75	1993.00	ELF-18N025A
	1.4	3.2	PLK1087-ND	4.67	40.05	333.75	1993.00	ELF-18N032A
20N	69.0	0.6	PLK1088-ND	5.11	43.77	364.75	2178.00	ELF-20N006A
	43.0	0.8	PLK1089-ND	5.11	43.77	364.75	2178.00	ELF-20N008A
	28.0	1.0	PLK1090-ND	5.11	43.77	364.75	2178.00	ELF-20N010A
	18.0	1.3	PLK1091-ND	5.11	43.77	364.75	2178.00	ELF-20N013A
	14.0	1.5	PLK1092-ND	5.11	43.77	364.75	2178.00	ELF-20N015A
	12.0	1.6	PLK1093-ND	5.11	43.77	364.75	2178.00	ELF-20N016A
	7.5	1.8	PLK1094-ND	5.11	43.77	364.75	2178.00	ELF-20N018A
	7.0	2.0	PLK1095-ND	5.11	43.77	364.75	2178.00	ELF-20N020A
	6.2	2.2	PLK1096-ND	5.11	43.77	364.75	2178.00	ELF-20N022A
	4.9	2.4	PLK1097-ND	5.11	43.77	364.75	2178.00	ELF-20N024A
	4.7	2.7	PLK1098-ND	5.11	43.77	364.75	2178.00	ELF-20N027A
	2.9	3.0	PLK1099-ND	5.11	43.77	364.75	2178.00	ELF-20N030A
	2.0	3.5	PLK1100-ND	5.11	43.77	364.75	2178.00	ELF-20N035A
	1.5	4.0	PLK1101-ND	5.11	43.77	364.75	2178.00	ELF-20N040A
NEW! High N Series NEW!								
17N	142.0	0.2	PLK1168-ND	1.42	12.21	101.75	607.00	ELF-17N002A
	60.0	0.3	PLK1169-ND	1.42	12.21	101.75	607.00	ELF-17N003A
	35.0	0.4	PLK1170-ND	1.42	12.21	101.75	607.00	ELF-17N004A
	26.0	0.5	PLK1171-ND	1.42	12.21	101.75	607.00	ELF-17N005A
	16.0	0.6	PLK1172-ND	1.42	12.21	101.75	607.00	ELF-17N006A
	14.0	0.7	PLK1173-ND	1.42	12.21	101.75	607.00	ELF-17N007A
	9.2	0.8	PLK1174-ND	1.42	12.21	101.75	607.00	ELF-17N008A
	7.2	1.0	PLK1175-ND	1.42	12.21	101.75	607.00	ELF-17N010A
	5.4	1.1	PLK1176-ND	1.42	12.21	101.75	607.00	ELF-17N011A
	3.7	1.3	PLK1177-ND	1.42	12.21	101.75	607.00	ELF-17N013A
	2.9	1.5	PLK1178-ND	1.42	12.21	101.75	607.00	ELF-17N015A
	2.3	1.7	PLK1179-ND	1.42	12.21	101.75	607.00	ELF-17N017A
	1.3	2.2	PLK1180-ND	1.42	12.21	101.75	607.00	ELF-17N022A
	0.8	3.0	PLK1181-ND	1.42	12.21	101.75	607.00	ELF-17N030A
19N	99.0	0.4	PLK1182-ND	2.57	22.05	183.75	1097.00	ELF-19N004A
	62.0	0.5	PLK1183-ND	2.57	22.05	183.75	1097.00	ELF-19N005A
	43.0	0.6	PLK1184-ND	2.57	22.05	183.75	1097.00	ELF-19N006A
	25.0	0.8	PLK1185-ND	2.57	22.05	183.75	1097.00	ELF-19N008A
	19.0	1.0	PLK1186-ND	2.57	22.05	183.75	1097.00	ELF-19N010A
	12.0	1.2	PLK1187-ND	2.57	22.05	183.75	1097.00	ELF-19N012A
	7.4	1.6	PLK1188-ND	2.57	22.05	183.75	1097.00	ELF-19N016A
	5.1	2.0	PLK1189-ND	2.57	22.05	183.75	1097.00	ELF-19N020A
	3.0	2.5	PLK1190-ND	2.57	22.05	183.75	1097.00	ELF-19N025A
	1.7	3.2	PLK1191-ND	2.57	22.05	183.75	1097.00	ELF-19N032A
21N	87.0	0.6	PLK1192-ND	3.24	27.75	231.25	1381.00	ELF-21N006A
	54.0	0.8	PLK1193-ND	3.24	27.75	231.25	1381.00	ELF-21N008A
	36.0	1.0	PLK1194-ND	3.24	27.75	231.25	1381.00	ELF-21N010A
	22.0	1.3	PLK1195-ND	3.24	27.75	231.25	1381.00	ELF-21N013A
	18.0	1.5	PLK1196-ND	3.24	27.75	231.25	1381.00	ELF-21N015A
	15.0	1.6	PLK1197-ND	3.24	27.75	231.25	1381.00	ELF-21N016A
	9.4	1.8	PLK1198-ND	3.24	27.75	231.25	1381.00	ELF-21N018A
	8.7	2.0	PLK1199-ND	3.24	27.75	231.25	1381.00	ELF-21N020A
	7.8	2.2	PLK1200-ND	3.24	27.75	231.25	1381.00	ELF-21N022A
	6.1	2.4	PLK1201-ND	3.24	27.75	231.25	1381.00	ELF-21N024A
	5.8	2.7	PLK1202-ND	3.24	27.75	231.25	1381.00	ELF-21N027A
	3.7	3.0	PLK1203-ND	3.24	27.75	231.25	1381.00	ELF-21N030A
	2.5	3.5	PLK1204-ND	3.24	27.75	231.25	1381.00	ELF-21N035A
	1.9	4.0	PLK1205-ND	3.24	27.75	231.25	1381.00	ELF-21N040A

Power Entry Modules

C Series: The C series is a two-function power entry module combining a DPST switch and an IEC 320 power line connector. **EC Series:** This series of filtered power entry modules provides the highest attenuation of any standard filter available in a package size limited by the dimensions of the integral IEC connector. These filters combine high common-mode inductance with high differential-mode capacitance and minimal parasitic elements, for effective attenuation of line-to-ground and line-to-line noise across the frequency range. **ED Series:** These filtered power entry modules are more effective than general purpose filters in applications where line-to-line and low frequency line-to-ground noise must be controlled. **EEA Series:** A new design in both the internal structure and manufacturing process makes this series cost effective and compact. **EF Series:** This rugged international series of filtered power entry modules incorporates the special IEC power line connector. They are UL recognized, CSA certified, and VDE and SEV approved. Models with F suffix are SEMKO approved and comply with BSI standards. **GG Series:** The GG series power entry modules combine the functions of a general purpose RFI filter with IEC power cord connector and single or dual metric fusing, in the smallest possible panel space. **H Series:** The H series was developed specifically for health care applications. These products are suitable for uses in both patient care equipment and nonpatient care equipment. Their extremely low leakage current allows compliance with UL544 and CSA 22.2 health care specifications. **J Series:** The most widely accepted of all the power entry modules, the J series combines an IEC connector, 2 voltage, or 4 voltage selection, and a North American fuseholder. **P Series:** This series of power entry modules offers full flexibility of design in the most compact package. As the first 10 Amp module to provide all five power entry functions in one compact design, the "Chameleon" readily adapts to its environment and the needs of international markets. • Snap-in or flange mounting • IEC power line connector • Both North American and European fusing capabilities • Two voltage selection • Optional DPST on/off switch • Filtering options for general purpose and medical applications. **LA Series:** A multi-function power entry connector with a choice of filtering capabilities. The series features an IEC line connector, selectable North American or dual European fusing capabilities, DPST on/off switch, and 120/240 voltage selection. The filtered LA units provide a one piece solution to all power entry needs and provide a filtering solution for almost any RFI problem. Their vertical design is flange mounted and will meet requirements for worldwide markets. **M Series:** This series of power entry modules offers the most choices of power entry components and filtering options to fit a specific need. **SR Series:** The SR series includes a full line of popular AC receptacles. These male and female power line connectors include snap-in and flange mounted models. All have complete safety agency approvals for worldwide usage.

Part Numbering System for P Series (Figure 4A & 4B)

	Mounting Style	Extender Options	Switch Options	Voltage Select	Fuse Options	Filter Type	Filter Current	Shield Options
P	E = Mtg. Ears (horiz) S = Snap-in	0 = None C = FN260 J = J Series L = L Series	0 = Blank S = DPST	0 = Single AC volt. S = Dual AC volt. select (SMPS) X = Dual AC volt. select (series/parallel)	D = Dual fuse S = Single fuse	0 = No filter B = Intercon. block H = Medical Filter S = Gen. purpose	0 = No filter or Intercon. block 3 = 3 amps 6 = 6 amps X = 10 amps	0 = No shield A = Filter shield B = Complete shield

Fig.	Rated Cur. 120V (Amps)	Termination	Dimensions (mm) A	B	C	D	E	F	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
						Series C - Power Entry Modules							
1	10	Faston, Straight	31.24	24.64	41.17	—	—	—	CCM1647-ND*	8.15	142.50	476.00	10CS1
						Series EC - Power Entry Modules							
2	3	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1623-ND	21.36	373.50	1247.00	3EC1
	6	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1611-ND	21.36	373.50	1247.00	6EC1
	10	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1646-ND	22.51	393.50	1314.00	10EC1
						Series ED - Power Entry Modules							
2	3	Faston, Straight	55.88	20.57	—	—	—	—	CCM1204-ND	15.73	275.00	919.00	3ED1
	6	Faston, Straight	55.88	20.57	—	—	—	—	CCM1205-ND	15.73	275.00	919.00	6ED1
	10	Faston, Straight	66.55	20.57	—	—	—	—	CCM1206-ND	16.22	283.50	947.00	10ED1
	3	Wire Lead, Straight	39.37	20.57	—	—	—	—	CCM1214-ND	15.73	275.00	919.00	3ED8
	6	Wire Lead, Straight	39.37	20.57	—	—	—	—	CCM1215-ND	15.73	275.00	919.00	6ED8
	6	Wire Lead, Straight	50.29	20.57	—	—	—	—	CCM1218-ND	19.96	349.00	1166.00	6ED8C
	10	Faston, Straight	66.55	20.57	—	—	—	—	CCM1219-ND	21.45	375.00	1253.00	10ED1C
						Series EEA - Power Entry Modules							
2	3	Faston, Straight	54.60	28.70	20.60	40.01	—	—	CCM1622-ND	9.72	170.00	568.00	3EEA1
	6	Faston, Straight	54.60	28.70	20.60	40.01	—	—	CCM1610-ND	9.07	158.50	529.00	6EEA1
	10	Faston, Straight	54.60	28.70	20.60	40.01	—	—	CCM1645-ND	9.87	172.50	576.00	10EEA1
						Series EF - Power Entry Modules							
2	1	Faston, Straight	55.88	20.57	—	—	—	—	CCM1100-ND	13.10	229.00	765.00	1EF1F
	3	Faston, Straight	55.88	20.57	—	—	—	—	CCM1101-ND	13.10	229.00	765.00	3EF1F
	6	Faston, Straight	55.88	20.57	—	—	—	—	CCM1102-ND	13.10	229.00	765.00	6EF1F
	10	Faston, Straight	66.55	20.57	—	—	—	—	CCM1103-ND	13.44	235.00	785.00	10EF1F
	3	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1621-ND	14.96	261.50	873.00	3EF1
	6	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1609-ND	14.96	261.50	873.00	6EF1
	15	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1636-ND	19.36	338.50	1131.00	15EF1F
						Series GG - Power Entry Modules With Fuseholders							
3	6	Faston, Straight	42.20	28.70	32.80	33.30	—	—	CCM1620-ND	14.30	250.00	835.00	6EGG1-1
	6	Faston, Straight	42.20	28.70	32.80	33.30	—	—	CCM1650-ND†	17.02	297.50	994.00	6EGG1-2
						Series H - Power Entry Modules							
2	6	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1607-ND	15.62	273.00	912.00	6EH4
						Series P, Chameleon — For General or Medical Applications (See chart for part number break down)							
4A	10	Faston	31.50	49.02	58.67	26.92	55.91	—	CCM1372-ND*	15.59	272.50	910.00	PS0SXS000
	10	Faston	31.50	49.02	58.67	26.92	55.91	—	CCM1373-ND*	12.16	212.50	710.00	PS000S000
	10	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1374-ND	18.59	325.00	1086.00	PS0S0SBX0
	3	Faston	31.50	54.10	58.67	28.50	55.91	—	CCM1376-ND	23.17	405.00	1353.00	PS000SS3B
	3	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1377-ND	22.74	397.50	1328.00	PS0SXSS30
	6	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1378-ND	21.45	375.00	1253.00	PS0SXSS60
	10	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1379-ND	26.31	460.00	1536.00	PS0S0SSXA
	10	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1380-ND	24.60	430.00	1436.00	PS000SSXB
	6	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1381-ND	21.45	375.00	1253.00	PS0SXDS60
	6	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1382-ND	23.60	412.50	1378.00	PS0S0SS6A
	6	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1600-ND	21.45	375.00	1253.00	PS0S0SS60
4B	10	Faston	50.29	49.02	58.67	28.50	55.91	40.01	CCM1375-ND*	16.59	290.00	969.00	PE0SSS000
	6	Faston	50.29	54.10	58.67	28.50	55.91	40.01	CCM1383-ND	22.45	392.50	1311.00	PE0SSSS60
	10	Faston	50.29	54.10	58.67	28.50	55.91	40.01	CCM1384-ND	25.17	440.00	1470.00	PE0SSSSX0
	10	Faston	50.29	54.10	58.67	28.50	55.91	40.01	CCM1385-ND	23.74	415.00	1386.00	PE0S0SS30

* Unfiltered † Utilizes 2 5x20 fuses

Fig.	Rated Cur. 120V (Amps)	RFI Filter Type	Avail.Voltage Select. Pos.	DPST On/Off Switch	Dimensions (mm) A	B	C	D	E	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
							Series J - Power Entry Modules							
5	6	Unfiltered	4	—	68.07	38.61	29.72	31.24	—	CCM1200-ND	15.39	269.00	898.00	6VJ1
	6	Gen. Purpose	4	—	69.85	47.50	29.732	40.13	—	CCM1201-ND	27.77	485.50	1622.00	6J4
							Series LA - Power Entry Modules							
6	5	Gen. Purpose	2	—	50.50	39.90	65.79	61.21	—	CCM1614-ND	51.99	909.00	3036.01	5EFLA2S
							Series M - Power Entry Modules							
7	6	Unfiltered	1	yes	105.92	91.95	36.83	—	—	CCM1001-ND	19.91	348.00	1162.00	6VM1S
	6	Unfiltered	2	yes	118.11	104.14	36.83	—	—	CCM1003-ND	23.22	406.00	1356.00	6VM2S
	6	Unfiltered	4	yes	118.11	104.14	36.83	—	—	CCM1005-ND	23.22	406.00	1356.00	6VM4S
	5	Medical	1	yes	105.92	91.95	29.0	—	55.63	CCM1011-ND	29.52	516.00	1723.00	5EHM1S
	5	Gen. Purpose	1	yes	105.92	91.95	29.0	—	55.63	CCM1021-ND	29.03	507.50	1695.00	5EFM1S
	5	Gen. Purpose	4	yes	118.11	104.14	29.0	—	55.63	CCM1023-ND	32.35	565.50	1889.00	5EFM4S
8	5	Medical	4	no	98.55	84.33	29.0	—	55.63	CCM1012-ND	28.66	501.00	1673.00	5EHM4
	5	Gen. Purpose	1	no	86.11	72.14	29.0	—	55.63	CCM1020-ND	24.88	435.00	1453.00	5EFM1

Fig.	Rated Cur. 120V (Amps)	Output Terminals	Mounting Style	Input Config.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
							Series SR - AC Connector						
9	15@125V	PC Terminals	Flange	Male	50.01	40.01	28.19	26.70	CCM1400-ND	3.06	53.50	179.00	6ESRM-P
	15@125V	Quick Disconnect	Flange	Male	50.22	40.01	22.76	31.09	CCM1401-ND	2.23	39.00	130.00	6ESRM-3
	15@125V	Quick Disconnect	Snap-In	Male	30.40	—	22.66	30.61	CCM1402-ND	2.35	41.00	137.00	6ESRMC2
	15@125V	Quick Disconnect	Snap-In	Female	35.31	—	28.19	35.71	CCM1403-ND	2.72	47.50	159.00	6ESRFC3
	15@125V	Quick Disconnect	Flange	Female	50.01	40.01	29.31	35.71	CCM1404-ND	2.72	47.50	159.00	6ESRF-3

Fig. 1

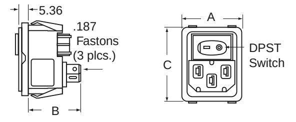


Fig. 2

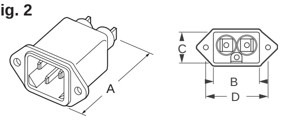


Fig. 3

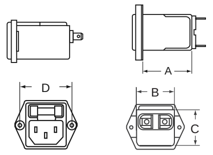


Fig. 4A See chart for part number break down.

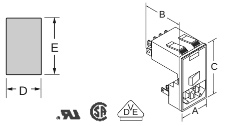


Fig. 4B See chart for part number break down.

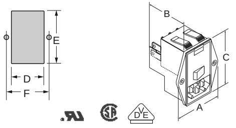


Fig. 5

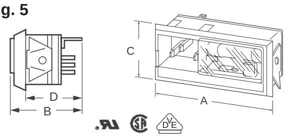


Fig. 6

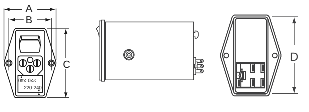
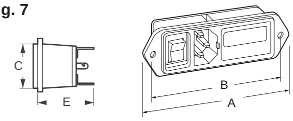


Fig. 7



Note: Picture shown with switch.

Fig. 8

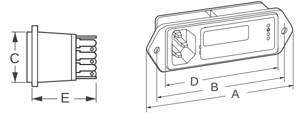
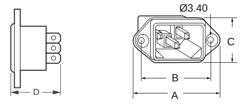


Fig. 9



Note: Picture shown with mounting flange.

RF Line Filters

B Series: These general purpose common-mode RFI power line filters effectively provide RFI control of line-to-ground noise in a small size at a low cost. **EP Series:** The EP/VP series of RFI filters has been developed to reduce conducted noise to acceptable limits for equipment that must comply with requirements of CISPAR in Europe and the FCC specifications in the USA. **H Series:** The H series filters were developed specifically for health care applications. These products are suitable for uses in both patient care equipment and nonpatient care equipment. Extremely low leakage current allows compliance with UL544 and CSA 22.2 health care specifications. **HT Series:** This series of power line filters provides superior common-mode and premium differential-mode attenuation to RFI noise on the frequency range from 10KHz to 30MHz, for IEC601 and UL544 patient-connected equipment, as well as all other electronic equipment that cannot tolerate any leakage current. **K Series:** These power line filters are general purpose common-mode and differential-mode filters. They are effective in the control of line-to-line as well as line-to-ground RFI interference. They are particularly suited in applications where pulsed, continuous and/or intermittent RFI interference is present. **MV Series:** This series answers the need for a medical filter to help equipment comply with increasing noise sources in medical applications while still meeting leakage current requirements of UL2601. **Q Series:** A series of RFI power line filters that has been developed specifically for switching power supplies and is designed to be all the line filtering needed to control conducted emissions all the way down to 10KHz. **R Series:** These dual T section RFI power line filters provide premium performance at a moderate cost. They are well suited for impedance loads where noisy RFI environments are present. They control pulsed, continuous and/or intermittent interference, insuring protection of your equipment from power noise in addition to protecting the line from equipment noise. **S Series:** The S series of RFI power line filters combines successful line-to-ground interference rejection filters with additional circuitry designed to reduce line-to-line noise and transients. **SK Series:** This series of RFI power line filters was designed to reduce conducted noise to acceptable limits for equipment that must comply with the FCC specifications in the USA and CISPAR specifications in Europe. **T Series:** These RFI power line filters provide superior common-mode and premium differential-mode attenuation, exceeded only by that of Q series filters. **U Series:** The U series was designed to meet the RFI needs created by power factor corrected power supplies. This high performance filter offers a high impedance circuit to mismatch the power supply's impedance characteristics. **V and W Series:** These RFI power line filters will protect equipment from malfunctions due to conducted interference coming into the equipment from the line, especially line-to-line noise and transients. The W series has a two-stage construction that provides excellent suppression at high frequency. **EDP Series:** These RFI power line filters provide enhanced differential-mode performance for applications requiring more line-to-line protection. **EOP Series:** A general purpose filter which is effective in removing both common and differential-mode noise for susceptibility applications. **X Series:** This series was designed to bring most digital equipment (including switching power supplies) into compliance with FCC Part 15J, Class B conducted emission limits. **Z Series:** A design that brings most digital equipment (including switching power supplies) into compliance with EN55022 Level B, (as well as FCC Part 15J, Class B) conducted emission limits. **N Series:** The N series RFI filters are designed to provide superior common-mode attenuation for most digital electronic equipment (particularly switching power supplies) over the frequency range of 10KHz to 30MHz.

Fig.	Rated Cur. 120 V (Amps)	Termination	Dimension (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
Series B — Line Filter											
1	1	Faston	57.15	46.23	16.76	53.98	CCM1300-ND	13.27	232.00	775.00	1VB1
	2	Faston	57.15	46.23	16.76	53.98	CCM1301-ND	11.93	208.50	696.00	2VB1
	3	Faston	66.29	46.23	19.81	53.98	CCM1302-ND	13.79	241.00	805.00	3VB1
	5	Faston	66.29	46.23	19.81	53.98	CCM1303-ND	12.78	223.50	746.00	5VB1
	10	Faston	66.29	46.23	29.46	53.98	CCM1304-ND	14.27	249.50	833.00	10VB1
	20	Faston	85.30	52.60	29.50	60.33	CCM1634-ND	22.11	386.50	1291.00	20EB1
	20	Faston	85.34	52.58	29.46	60.33	CCM1305-ND	22.11	386.50	1291.00	20VB1
10	1	Wire Lead	24.38	46.23	16.76	53.98	CCM1310-ND	14.13	247.00	825.00	1VB3
	2	Wire Lead	24.38	46.23	16.76	53.98	CCM1311-ND	12.87	225.00	752.00	2VB3
	3	Wire Lead	33.53	46.23	19.81	53.98	CCM1312-ND	14.70	257.00	858.00	3VB3
	5	Wire Lead	33.53	46.23	19.81	53.98	CCM1313-ND	13.53	236.50	790.00	5VB3
	10	Wire Lead	33.53	46.23	29.46	53.98	CCM1314-ND	14.93	261.00	872.00	10VB3
4	20	Stud	87.88	52.58	29.46	60.33	CCM1321-ND	26.05	455.50	1521.00	20VB6
Series EDP — For General Purpose Application											
6	1	PCB	36.58	31.50	24.13	—	CCM1364-ND	16.93	296.00	989.00	1EDP
	3	PCB	36.58	31.50	24.13	—	CCM1365-ND	15.82	276.50	924.00	3EDP
Series EOP — For General Purpose Application											
6	1	PCB	36.58	31.50	19.81	—	CCM1366-ND	13.99	244.50	817.00	1EOP
	3	PCB	36.58	31.50	19.81	—	CCM1367-ND	12.78	223.50	746.00	3EOP
Series EP — Line Filter For Switching Power Supply Noise Suppression											
2	3	Faston	97.80	52.60	45.20	74.63	CCM1619-ND	32.75	570.00	1912.00	3EP1
	10	Faston	168.10	52.60	70.60	142.88	CCM1644-ND	74.16	1296.50	4330.00	10EP1
Series EXP — For Emission Control Applications											
5	3	PCB	66.29	28.70	41.15	—	CCM1370-ND	21.16	370.00	1236.00	3EXP
	6	PCB	66.29	28.70	44.45	—	CCM1371-ND	34.26	599.00	2001.00	6EXP
Series EZP — For Emission Control Applications											
5	2	PCB	66.29	28.70	44.45	—	CCM1368-ND	26.37	461.00	1540.00	2EZP
	3	PCB	66.29	28.70	44.45	—	CCM1369-ND	27.08	473.50	1581.00	3EZP
Series H — Line Filter For Healthcare Equipment											
1	6	Faston	57.20	46.10	16.70	53.98	CCM1608-ND	13.01	227.50	760.00	6EH1
Series HT — High Performance Line Filter For Medical Equipment											
2	6	Faston	90.40	54.60	46.00	74.63	CCM1606-ND	44.02	769.50	2570.01	6EHT1
Series K — Line Filter											
1	2	Faston	78.70	52.60	23.10	60.33	CCM1627-ND	15.27	267.00	892.00	2VK1
	3	Faston	78.70	52.60	29.50	60.33	CCM1618-ND	18.13	317.00	1059.00	3VK1
	5	Faston	78.70	52.60	29.50	60.33	CCM1613-ND	15.53	271.50	907.00	5VK1
	10	Faston	85.10	52.60	29.50	60.33	CCM1641-ND	16.39	286.50	957.00	10VK1
	20	Faston	85.10	65.00	38.90	74.63	CCM1632-ND	24.71	432.00	1443.00	20VK1
	20	Faston	85.10	65.00	38.90	74.63	CCM1633-ND	24.71	432.00	1443.00	20EK1
4	20	Stud	87.90	65.00	38.90	74.63	CCM1631-ND	28.57	499.50	1668.00	20VK6
	30	Stud	135.60	85.90	38.90	95.25	CCM1625-ND	53.54	936.00	3126.00	30VK6
10	2	Wire Lead	46.00	52.60	23.10	60.33	CCM1626-ND	16.47	288.00	962.00	2VK3
	5	Wire Lead	46.00	52.60	29.50	60.33	CCM1612-ND	17.50	306.00	1022.00	5VK3
Series MV — Multipurpose Line Filter For Medical Applications											
2	10	Faston	98.00	52.80	38.90	74.63	CCM1642-ND	38.30	669.50	2236.00	10MV1
Series N - High Performance Line Filter for Switching Power Supplies											
2	10	Faston	119.10	57.70	45.70	103.20	CCM1649-ND	80.57	1408.50	4704.00	10VN1
Series Q — Line Filters For Switching Power Supply Emissions Down to 10kHz											
2	3	Faston	97.80	52.60	45.20	74.63	CCM1651-ND	49.76	870.00	2905.99	3EQ1
	6	Faston	126.50	57.70	45.70	103.20	CCM1605-ND	73.96	1293.00	4319.01	6EQ1
Series R — Line Filter, 2 Stage											
2	2	Faston	85.09	45.97	29.46	60.33	CCM1331-ND	21.94	383.50	1281.00	2VR1
	3	Faston	97.79	52.58	29.46	74.63	CCM1332-ND	23.54	411.50	1374.00	3VR1
	5	Faston	97.79	52.58	29.46	74.63	CCM1333-ND	22.14	387.00	1293.00	5VR1
	10	Faston	97.79	52.58	38.86	74.63	CCM1334-ND	23.22	406.00	1356.00	10VR1
	20	Faston	132.84	85.60	38.86	95.25	CCM1335-ND	56.34	985.00	3290.00	20VR1
	10	Stud	100.58	52.58	38.86	74.63	CCM1360-ND	27.54	481.50	1608.00	10VR6
9	2	Wire Lead	52.58	45.97	29.46	60.33	CCM1341-ND	24.25	424.00	1416.00	2VR3
	5	Wire Lead	65.02	52.58	29.46	74.63	CCM1343-ND	24.45	427.50	1428.00	5VR3
	10	Wire Lead	65.02	52.58	38.86	74.63	CCM1344-ND	24.02	420.00	1403.00	10VR3
Series S — Line Filter For Emission Control											
2	3	Faston	85.30	46.20	29.50	60.33	CCM1617-ND	28.83	504.00	1683.00	3VS1
	6	Faston	98.00	52.80	38.90	74.63	CCM1603-ND	28.83	504.00	1683.00	6VS1
	10	Faston	98.00	52.80	38.90	74.63	CCM1640-ND	33.95	593.50	1982.01	10VS1
	20	Faston	132.80	85.90	38.90	95.25	CCM1648-ND	75.05	1312.00	4382.00	20VS1
Series SK — Line Filter - High Performance K Series											
2	20	Stud	127.30	57.20	45.20	103.20	CCM1630-ND	54.63	955.00	3190.01	20VSK6
7	30	Stud	125.00	79.25	69.85	87.30	CCM1624-ND	65.69	1148.50	3835.99	30VSK6
	40	Stud	152.40	79.25	55.40	88.90	CCM1615-ND	72.76	1272.00	4248.00	40VSK6
Series T — High Performance Line Filter For Switching Power Supplies											
2	6	Faston	90.40	54.60	46.00	74.63	CCM1604-ND	44.27	774.00	2585.01	6ET1
	10	Faston	119.10	57.70	45.70	103.20	CCM1643-ND	63.95	1118.00	3734.01	10ET1
	10	Faston	119.10	57.70	45.70	103.20	CCM1639-ND	63.95	1118.00	3734.01	10VT1
3	15	Faston	138.40	79.20	55.40	88.90	CCM1635-ND	84.14	1471.00	4912.99	15ET1
Series U — For Power Factor Corrected Power Supplies											
8	6.5	6EUP PCB	119.38	63.75	30.99	—	CCM1362-ND	69.24	1210.50	4043.00	6EUP
2	6.5	6EU1 Faston	125.73	57.66	45.72	103.12	CCM1363-ND	56.31	984.50	3287.99	6EU1
Series V — Line Filter For Emission Control											
2	6	Faston	98.00	52.80	38.90	74.63	CCM1602-ND	32.58	569.50	1902.00	6VV1
	10	Faston	98.00	52.80	38.90	74.63	CCM1638-ND	36.75	642.50	2146.00	10VV1
3	20	Faston	132.80	85.90	38.90	95.25	CCM1629-ND	78.51	1372.50	4584.01	20VV1
Series W — Line Filter For Emission Control, 2 Stage											
2	3	Faston	85.30	46.20	32.50	60.33	CCM1616-ND	34.32	600.00	2004.00	3VW1
	6	Faston	98.00	52.80	38.90	74.63	CCM1601-ND	34.32	600.00	2004.00	6VW1
	10	Faston	98.00	52.80	38.90	74.63	CCM1637-ND	39.38	688.50	2300.00	10VW1
3	20	Faston	132.80	85.90	38.90	95.25	CCM1628-ND	80.25	1403.00	4685.99	20VW1

Fig. 1

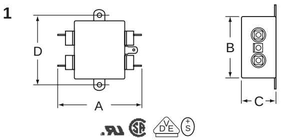


Fig. 2

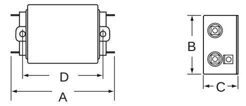


Fig. 3

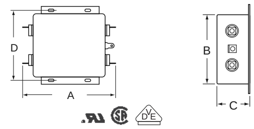


Fig. 4

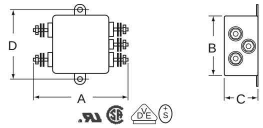


Fig. 5

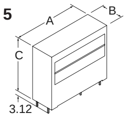


Fig. 6

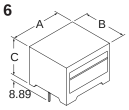


Fig. 7

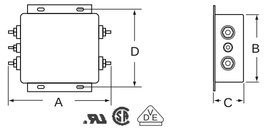


Fig. 8

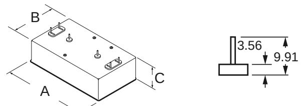


Fig. 9

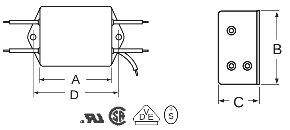
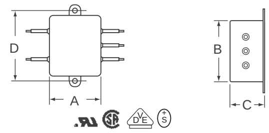


Fig. 10



PREO
A DIVISION OF EASTEK INTERNATIONAL

Power Line EMI Filters

The EB series are general purpose EMI filters, which suppress high frequency conducted noise both into and out of the equipment through the power lines. The compact and low cost designs make these a good choice for cleaning up noisy power lines.

The EK series are general purpose EMI filters with enhanced differential mode performance. They are effective in suppressing both common mode and differential mode noise. This series is a very good choice when it is required to comply with basic EMI emission regulations, such as FCC-A and VDE-A.

The ER series are high performance EMI filters with multi-stage design for both common mode and differential mode noise suppression. This series is most useful when attenuation is required for compliance with stringent EMI emission regulations such as FCC-B and VDE-B.

The HB series are general purpose EMI filters specially designed for medical and dental equipment, both patient care and nonpatient categories. The leakage current in this series is extremely low to satisfy the stringent leakage current limit imposed by safety regulations for medical and dental equipment, such as UL544 and IEC601.

Fig. 1

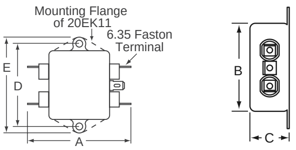


Fig. 2

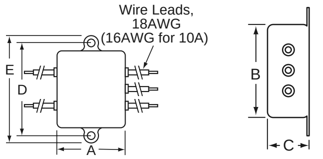


Fig. 3

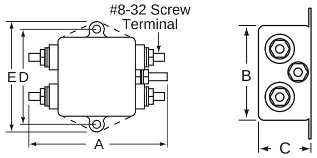


Fig. 4

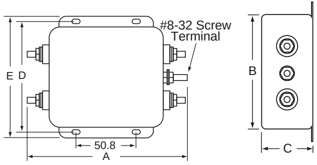


Fig. 5

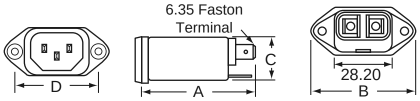


Fig. 6

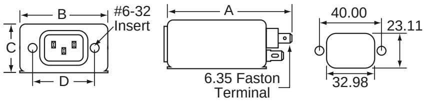


Fig. 7

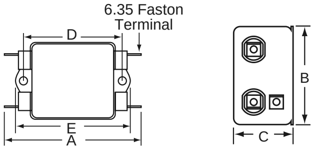


Fig. 8

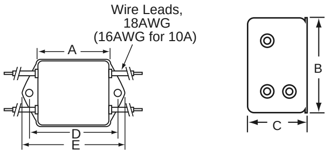


Fig. 9

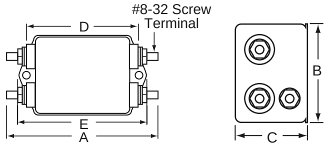


Fig.	Rated Amps	Termination	Dimensions (mm)					Digi-Key Part No.	Price Each			Eastek Part No.
			A	B	C	D	E		1	25	50	
Series EB												
1	2A	Faston	57.2	46.2	16.8	54.0	64.3	364-1000-ND	7.64	5.73	5.10	02EB11
	3A	Faston	66.3	46.2	19.8	54.0	64.3	364-1001-ND	8.83	6.62	5.89	03EB11
	6A	Faston	66.3	46.2	19.8	54.0	64.3	364-1002-ND	8.18	6.13	5.45	06EB11
	10A	Faston	66.3	46.2	29.5	54.0	64.3	364-1008-ND	9.21	6.91	6.14	10EB11
	20A	Faston	85.3	52.6	29.5	60.3	71.4	364-1003-ND	14.85	11.14	9.90	20EB11
2	2A	Wire	24.4	46.2	16.8	54.0	64.3	364-1004-ND	8.40	6.30	5.60	02EB33
	3A	Wire	33.5	46.2	19.8	54.0	64.3	364-1005-ND	9.58	7.19	6.39	03EB33
	6A	Wire	33.5	46.2	19.8	54.0	64.3	364-1006-ND	8.83	6.62	5.89	06EB33
	10A	Wire	33.5	46.2	29.5	54.0	64.3	364-1007-ND	9.74	7.31	6.49	10EB33
3	10A	Screw	69.1	46.2	29.5	54.0	64.3	364-1009-ND	11.78	8.84	7.85	10EB66
	20A	Screw	87.9	52.6	29.5	60.3	71.4	364-1010-ND	17.50	13.13	11.67	20EB66
4	30A	Screw	135.6	85.9	38.9	95.2	106.7	364-1011-ND	33.42	25.07	22.28	30EB66
5	1A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1012-ND	8.16	6.12	5.44	01EBM1
	3A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1013-ND	6.93	5.20	4.62	03EBM1
	6A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1014-ND	6.86	5.15	4.58	06EBM1
	10A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1015-ND	7.00	5.25	4.66	10EBM1
Series EK												
1	2A	Faston	78.7	52.6	23.1	60.3	71.4	364-1016-ND	9.76	7.32	6.51	02EK11
	3A	Faston	78.7	52.6	29.5	60.3	71.4	364-1017-ND	11.62	8.72	7.75	03EK11
	6A	Faston	78.7	52.6	29.5	60.3	71.4	364-1018-ND	9.94	7.45	6.63	06EK11
	10A	Faston	85.1	52.6	29.5	60.3	71.4	364-1019-ND	10.69	8.02	7.13	10EK11
	20A	Faston	85.1	65.0	38.9	74.6	85.1	364-1020-ND	16.61	12.46	11.07	20EK11
2	2A	Wire	46.0	52.6	23.1	60.3	71.4	364-1021-ND	10.75	8.06	7.17	02EK33
	3A	Wire	46.0	52.6	29.5	60.3	71.4	364-1022-ND	12.22	9.16	8.14	03EK33
	6A	Wire	46.0	52.6	29.5	60.3	71.4	364-1023-ND	11.42	8.57	7.62	06EK33
	10A	Wire	52.6	52.6	29.5	60.3	71.4	364-1024-ND	11.25	8.43	7.50	10EK33
6	3A	IEC320/Faston	81.5	57.2	32.5	40.0	—	364-1025-ND	13.15	9.86	8.76	03EKM1
	6A	IEC320/Faston	81.5	57.2	32.5	40.0	—	364-1026-ND	12.14	9.10	8.09	06EKM1
	10A	IEC320/Faston	94.2	57.2	32.5	40.0	—	364-1027-ND	13.48	10.11	8.99	10EKM1
3	10A	Screw	87.9	52.6	29.5	60.3	71.4	364-1028-ND	13.20	9.90	8.80	10EK66
	20A	Screw	87.9	65.0	38.9	74.6	85.1	364-1029-ND	19.21	14.40	12.80	20EK66
4	30A	Screw	135.6	85.9	38.9	95.2	106.7	364-1030-ND	35.98	26.98	23.98	30EK66
Series ER												
7	2A	Faston	85.1	46.0	29.5	60.3	70.6	364-1031-ND	14.75	11.06	9.83	02ER11
	3A	Faston	97.8	52.6	29.5	74.6	85.1	364-1032-ND	15.82	11.87	10.55	03ER11
	6A	Faston	97.8	52.6	29.5	74.6	85.1	364-1033-ND	14.87	11.15	9.91	06ER11
	10A	Faston	97.8	52.6	38.9	74.6	85.1	364-1034-ND	15.60	11.70	10.40	10ER11
	20A	Faston	132.8	85.6	38.9	95.2	106.7	364-1035-ND	37.88	28.41	25.25	20ER11
8	2A	Wire	52.6	46.0	29.5	60.3	70.6	364-1036-ND	16.28	12.21	10.85	02ER33
	3A	Wire	65.0	52.6	29.5	74.6	85.1	364-1037-ND	16.87	12.65	11.25	03ER33
	6A	Wire	65.0	52.6	29.5	74.6	85.1	364-1038-ND	16.43	12.33	10.96	06ER33
	10A	Wire	65.0	52.6	38.9	74.6	85.1	364-1039-ND	16.16	12.12	10.77	10ER33
6	3A	IEC320/Faston	110.0	57.2	32.5	40.0	—	364-1040-ND	18.26	13.69	12.17	03ERM1
	6A	IEC320/Faston	110.0	57.2	32.5	40.0	—	364-1041-ND	17.23	12.92	11.48	06ERM1
	10A	IEC320/Faston	110.0	57.2	38.9	40.0	—	364-1042-ND	18.53	13.90	12.36	10ERM1
9	10A	Screw	100.6	52.6	38.9	74.6	85.1	364-1043-ND	18.51	13.88	12.34	10ER66
4	20A	Screw	135.6	85.6	38.9	95.2	106.7	364-1044-ND	38.87	29.15	25.91	20ER66
	30A	Screw	151.1	79.2	55.4	88.9	100.6	364-1045-ND	66.00	49.50	44.00	30ER66
Series HB												
1	6A	Faston	66.3	46.2	19.8	54.0	64.3	364-1046-ND	8.34	6.25	5.56	06HB11
2	6A	Wire	33.5	46.2	19.8	54.0	64.3	364-1047-ND	9.48	7.11	6.32	06HB33
5	6A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1048-ND	10.30	7.72	6.86	06HBM1

SAL-A 123

Axial Solid AL Electrolytic Capacitors

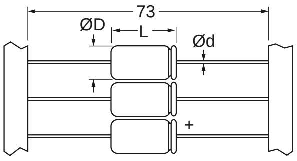
FEATURES:

- Polarized aluminum electrolytic capacitors, solid electrolyte MnO2
- Axial leads, aluminum case, ceramic seal, blue insulation sleeve.
- SAL-A: standard version
- Extremely long useful life: 20,000 hours at 125°C
- Extended usable temperature range up to 200°C
- Excellent low temperature impedance and ESR behavior
- Charge and discharge proof, application with 0 Ω resistance allowed
- Reverse DC voltage up to 0.3 x U$_R$ allowed
- AC voltage up to 0.8 x U$_R$ allowed
- Advanced technology to achieve high reliability and high stability

APPLICATIONS:

- EDP, telecommunications, general industrial, automotive, military and space
- Smoothing, filtering, buffering, timing
- For power supplies, DC/DC converters

Dimensions in mm.



Form BA: Taped in box (ammopack)

DESCRIPTION	VALUE
Case sizes (ØD$_{nom}$ x L$_{nom}$ in mm)	6.7 x 15.3 to 12.9 x 32.0
Rated capacitance range (E6 Series), C$_R$	1.5 to 2200 µF
Tolerance on C$_R$	±20%
Rated voltage range, U$_R$	6.3 to 40V
Category temperature range	-55°C to +125°C
Usable temperature range	-80°C to +200°C
Endurance test at 155 and 125°C	5000 and 8000 hours
Useful life at 40°C, I$_R$ applied	450,000 hours
Shelf life at 0 V, 125°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30300
Detail specification	IEC384-4-2/CECC 30302
Climatic category IEC 68 (DIN 40040; NF C20-600)	55/125/56 (FKD; 434)
Approvals	CNET LNZ 44-04 COS-C (PTT) Gam-t-1 (MIL) CECC 30302-003

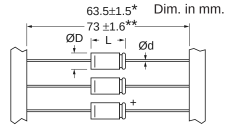
WV	Cap.	Leakage		Ripple	Dimensions (mm)			Digi-Key	Cut Tape Pricing		Digi-Key	Tape & Box Pricing				BC Components
(VDC)	(µF)	Curr. (µA)	tan δ	Curr. (mA)	L	D	d	Part No.	1	10	Part No.	100	500	1,000	5,000	Part No.
6.3	47	15	0.180	58	15.3	6.7	0.6	4264PHCT-ND	3.69	33.83	4264PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 13479
	68	21	0.180	83	15.3	6.7	0.6	4265PHCT-ND	3.69	33.83	4265PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 13689
	150	47	0.180	160	20.4	7.6	0.6	4266PHCT-ND	3.85	35.26	4266PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 13151
	330	104	0.180	330	23.3	9.3	0.6	4267PHCT-ND	4.11	37.68	4267PHTB-ND	321.95	1316.07	2044.77	1929.58/M	2222 123 13331
	680	214	0.180	680	32	10.3	0.6	4268PHCT-ND	4.49	41.11	4268PHTB-ND	351.33	1436.15	2231.33	2105.64/M	2222 123 13681
	1000	315	0.180	940	32	12.9	0.6	4269PHCT-ND	5.17	47.41	4269PHTB-ND	405.14	1656.13	2573.12	2428.17/M	2222 123 13102
	1500	473	0.180	1220	32	12.9	0.6	4270PHCT-ND	6.01	55.11	4270PHTB-ND	470.94	1925.11	2991.03	2822.54/M	2222 123 13152
10	33	17	0.180	63	15.3	6.7	0.6	4271PHCT-ND	3.69	33.83	4271PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 14339
	47	24	0.180	83	15.3	6.7	0.6	4272PHCT-ND	3.69	33.83	4272PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 14479
	68	34	0.180	110	20.4	7.6	0.6	4273PHCT-ND	3.85	35.26	4273PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 14689
	100	50	0.180	160	20.4	7.6	0.6	4274PHCT-ND	3.85	35.26	4274PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 14101
	150	75	0.180	240	23.3	9.3	0.6	4275PHCT-ND	4.13	37.87	4275PHTB-ND	323.60	1322.79	2055.21	1939.44/M	2222 123 14151
	220	110	0.180	350	23.3	9.3	0.6	4276PHCT-ND	4.13	37.87	4276PHTB-ND	323.60	1322.79	2055.21	1939.44/M	2222 123 14221
	330	165	0.180	490	32	10.3	0.8	4277PHCT-ND	4.46	40.92	4277PHTB-ND	349.68	1429.42	2220.88	2095.78/M	2222 123 14331
	470	235	0.180	570	32	10.3	0.8	4278PHCT-ND	4.49	41.11	4278PHTB-ND	351.33	1436.15	2231.33	2105.64/M	2222 123 14471
	680	340	0.180	760	32	12.9	0.8	4279PHCT-ND	5.17	47.41	4279PHTB-ND	405.14	1656.13	2573.12	2428.17/M	2222 123 14681
	1000	500	0.180	1000	32	12.9	0.8	4280PHCT-ND	6.01	55.11	4280PHTB-ND	470.94	1925.11	2991.03	2822.54/M	2222 123 14102
16	10	16	0.140	31	15.3	6.7	0.6	4281PHCT-ND	3.69	33.83	4281PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 15109
	15	24	0.140	47	15.3	6.7	0.6	4282PHCT-ND	3.69	33.83	4282PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 15159
	22	35	0.140	63	15.3	6.7	0.6	4283PHCT-ND	3.69	33.83	4283PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 15229
	33	55	0.140	89	20.4	7.6	0.6	4284PHCT-ND	3.85	35.26	4284PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 15339
	47	75	0.140	120	20.4	7.6	0.6	4285PHCT-ND	3.85	35.26	4285PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 15479
	68	110	0.140	180	20.4	7.6	0.6	4286PHCT-ND	3.85	35.26	4286PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 15689
	100	160	0.140	260	23.3	9.3	0.6	4287PHCT-ND	4.13	37.87	4287PHTB-ND	323.60	1322.79	2055.21	1939.44/M	2222 123 15101
	150	240	0.160	310	23.3	9.3	0.6	4288PHCT-ND	4.13	37.87	4288PHTB-ND	323.60	1322.79	2055.21	1939.44/M	2222 123 15151
	220	350	0.160	420	32	10.3	0.8	4289PHCT-ND	4.44	40.73	4289PHTB-ND	348.04	1422.70	2210.44	2085.92/M	2222 123 15221
	330	500	0.160	510	32	10.3	0.8	4290PHCT-ND	4.44	40.73	4290PHTB-ND	348.04	1422.70	2210.44	2085.92/M	2222 123 15331
	470	750	0.160	680	32	12.9	0.8	4291PHCT-ND	5.19	47.60	4291PHTB-ND	406.79	1662.86	2583.57	2438.03/M	2222 123 15471
	680	870	0.160	850	32	12.9	0.8	4292PHCT-ND	6.01	55.11	4292PHTB-ND	470.94	1925.11	2991.03	2822.54/M	2222 123 15681
25	10	25	0.140	43	15.3	6.7	0.6	4293PHCT-ND	3.69	33.83	4293PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 16109
	15	35	0.140	60	15.3	6.7	0.6	4294PHCT-ND	3.69	33.83	4294PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 16159
	22	55	0.140	88	20.4	7.6	0.6	4295PHCT-ND	3.85	35.26	4295PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 16229
	33	85	0.140	130	20.4	7.6	0.6	4296PHCT-ND	4.91	45.04	4296PHTB-ND	384.88	1573.33	2444.47	2306.76/M	2222 123 16339
	47	100	0.140	160	20.4	7.6	0.6	4297PHCT-ND	3.85	35.26	4297PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 16479
	68	170	0.140	230	23.3	9.3	0.6	4298PHCT-ND	4.11	37.68	4298PHTB-ND	321.95	1316.07	2044.77	1929.58/M	2222 123 16689
	100	250	0.160	250	23.3	9.3	0.6	4299PHCT-ND	4.13	37.87	4299PHTB-ND	323.60	1322.79	2055.21	1939.44/M	2222 123 16101
	150	400	0.160	350	32	10.3	0.8	4300PHCT-ND	4.42	40.51	4300PHTB-ND	346.16	1415.02	2198.50	2074.65/M	2222 123 16151
	220	550	0.160	460	32	12.9	0.8	4301PHCT-ND	5.15	47.19	4301PHTB-ND	403.26	1648.45	2561.18	2416.90/M	2222 123 16221
	330	800	0.160	600	32	12.9	0.8	4302PHCT-ND	5.95	54.51	4302PHTB-ND	465.77	1903.98	2958.19	2791.55/M	2222 123 16331
35	1.0	5.0	0.120	4.0	15.3	6.7	0.6	4303PHCT-ND	3.67	33.63	4303PHTB-ND	287.41	1174.86	1825.36	1722.54/M	2222 123 10108
	1.5	5.0	0.120	7.0	15.3	6.7	0.6	4304PHCT-ND	3.67	33.63	4304PHTB-ND	287.41	1174.86	1825.36	1722.54/M	2222 123 10158
	2.2	5.0	0.120	10	15.3	6.7	0.6	4305PHCT-ND	3.67	33.63	4305PHTB-ND	287.41	1174.86	1825.36	1722.54/M	2222 123 10228
	3.3	7.0	0.120	14	15.3	6.7	0.6	4306PHCT-ND	3.69	33.83	4306PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 10338
	4.7	10	0.120	20	15.3	6.7	0.6	4307PHCT-ND	3.69	33.83	4307PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 10478
	6.8	15	0.120	27	15.3	6.7	0.6	4308PHCT-ND	3.69	33.83	4308PHTB-ND	289.05	1181.58	1835.81	1732.40/M	2222 123 10688
	10	20	0.120	37	20.4	7.6	0.6	4309PHCT-ND	3.85	35.26	4309PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 10109
	15	30	0.120	53	20.4	7.6	0.6	4310PHCT-ND	3.85	35.26	4310PHTB-ND	301.27	1231.53	1913.42	1805.64/M	2222 123 10159
	22	45	0.120	78	20.4	7.6	0.6	4311PHCT-ND	3.89	35.64	4311PHTB-ND	304.56	1244.98	1934.32	1825.36/M	2222 123 10229
	33	65	0.120	120	23.3	9.3	0.6	4312PHCT-ND	4.13	37.87	4312PHTB-ND	323.60	1322.79	2055.21	1939.44/M	2222 123 10339
	47	95	0.120	140	23.3	9.3	0.6	4313PHCT-ND	4.11	37.68	4313PHTB-ND	321.95	1316.07	2044.77	1929.58/M	2222 123 10479
	68	135	0.160	170	32	10.3	0.8	4314PHCT-ND	4.42	40.51	4314PHTB-ND	346.16	1415.02	2198.50	2074.65/M	2222 123 10689
	100	200	0.160	220	32	12.9	0.8	4315PHCT-ND	5.17	47.41	4315PHTB-ND	405.14	1656.13	2573.12	2428.17/M	2222 123 10101
	150	300	0.160	290	32	12.9	0.8	4316PHCT-ND	6.01	55.11	4316PHTB-ND	470.94	1925.11	2991.03	2822.54/M	2222 123 10151
40	2.2	9.0	0.120	11	15.3	6.7	0.6	4317PHCT-ND	3.74	34.24	4317PHTB-ND	292.58	1195.99	1858.20	1753.52/M	2222 123 17228
	3.3	13	0.120	16	15.3	6.7	0.6	4318PHCT-ND	3.74	34.24	4318PHTB-ND	292.58	1195.99	1858.20	1753.52/M	2222 123 17338
	4.7	19	0.120	22	15.3	6.7	0.6	4319PHCT-ND	3.74	34.24	4319PHTB-ND	292.58	1195.99	1858.20	1753.52/M	2222 123 17478
	6.8	27	0.120	28	15.3	6.7	0.6	4320PHCT-ND	3.74	34.24	4320PHTB-ND	292.58	1195.99	1858.20	1753.52/M	2222 123 17688
	10	40	0.120	41	20.4	7.6	0.6	4321PHCT-ND	3.89	35.64	4321PHTB-ND	304.56	1244.98	1934.32	1825.36/M	2222 123 17109
	15	60	0.120	61	20.4	7.6	0.6	4322PHCT-ND	3.91	35.86	4322PHTB-ND	306.44	1252.67	1946.26	1836.62/M	2222 123 17159
	22	90	0.120	89	23.3	9.3	0.6	4323PHCT-ND	4.18	38.28	4323PHTB-ND	327.12	1337.20	2077.60	1960.57/M	2222 123 17229
	33	130	0.120	120	23.3	9.3	0.6	4324PHCT-ND	4.18	38.28	4324PHTB-ND	327.12	1337.20	2077.60	1960.57/M	2222 123 17339
	47	190	0.120	160	32	10.3	0.8	4325PHCT-ND	4.49	41.11	4325PHTB-ND	351.33	1436.15	2231.33	2105.64/M	2222 123 17479
	68	270	0.160	170	32	10.3	0.8	4326PHCT-ND	4.49	41.11	4326PHTB-ND	351.33	1436.15	2231.33	2105.64/M	2222 123 17689
	100	400	0.160	220	32	12.9	0.8	4327PHCT-ND	5.24	48.02	4327PHTB-ND	410.31	1677.27	2605.96	2459.16/M	2222 123 17101

ASM 021

Axial Standard Miniature Electrolytic Capacitors

FEATURES: • Polarized aluminum electrolytic capacitors, non-solid • Axial leads, cylindrical aluminum case, insulated with a blue sleeve • Charge and discharge proof • Case Ø10mm x 30mm to 21mm x 40 mm with pressure relief • Taped versions up to case Ø15mm x 30 mm available for automatic insertion • Miniaturized, high CV-product per unit volume

APPLICATIONS: • General purpose, industrial, automotive, audio-video • Coupling, decoupling, smoothing, filtering, buffering and timing • Portable and mobile equipment (small size, low mass) • Low mounting height boards, vibration and shock resistant.



Case size 10 x 30 and above are bulk
Form BA: Taped in box (ammopack)
*Case ØD x L =
4.5 x 10 to 8 x 11 mm
**Case ØD x L =
6.5 x 18 to 10 x 25 mm

DESCRIPTION	VALUE	
Case sizes (ØD_{nom} x L_{nom} in mm)	4.5 x 10 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	0.47 to 15,000 µF	
Tolerance on C_R	±20%	
Rated voltage range, U_R	6.3 to 100V	
Category temperature range	–40°C to +85°C	
Endurance test at 85°C: U_R = 6.3 to 25 V U_R = 40 to 100 V	1,000 hours 2,000 hours	5,000 hours 5,000 hours
Useful life at 85°C	2,500 hours	8,000 hours
Useful life at 40°C, 1.4 x I_R applied	70,000 hours	200,000 hours
Shelf life at 0 V, 85°C	500 hours	500 hours
Based on sectional specification: U_R = 6.3 to 25 V U_R = 40 to 100 V	IEC 384-4/CECC 30300 GP grade LL grade	IEC384-4/CECC 30300 LL grade LL grade
Climatic category IEC 68 (DIN 40040)	40/085/56 (GPF)	

WV (VDC)	Cap. (µF)	Leakage Curr. (µA)	tan δ	Ripple Curr. (mA)	Dimensions (mm)			Digi-Key Part No.	Pricing*			Digi-Key Part No.	Pricing*				BC Components Part No.
					L	D	d		1	10	100		500	1,000	5,000	10,000	
6.3	470	22	0.250	260	11	8	0.6	4000PHCT-ND	.47	3.99	31.26	4000PHTB-ND	127.76	198.51	187.33/M	172.73/M	2222 021 33471
	1000	42	0.250	440	18	8	0.8	4001PHCT-ND	.53	4.50	35.25	4001PHTB-ND	144.10	223.88	211.27/M	194.81/M	2222 021 33102
	2200	87	0.290	710	25	10	0.8	4002PHCT-ND	.89	7.65	59.93	4002PHTB-ND	244.96	380.60	359.16/M	331.17/M	2222 021 90589
10	100	10	0.200	100	10	4.5	0.6	4003PHCT-ND	.32	2.76	21.62	4003PHTB-ND	—	137.31	129.58/M	119.48/M	2222 021 34101
	220	17	0.200	160	10	6	0.6	4004PHCT-ND	.36	3.12	24.44	4004PHTB-ND	—	155.22	146.48/M	135.07/M	2222 021 34221
	330	24	0.200	230	11	8	0.6	4005PHCT-ND	.47	3.99	31.26	4005PHTB-ND	127.76	198.51	187.33/M	172.73/M	2222 021 34331
	470	32	0.200	310	18	6.5	0.8	4006PHCT-ND	.49	4.17	32.67	4006PHTB-ND	—	207.46	195.78/M	180.52/M	2222 021 34471
	680	45	0.200	400	18	8	0.8	4007PHCT-ND	.53	4.50	35.25	4007PHTB-ND	144.10	223.88	211.27/M	194.81/M	2222 021 34681
	1000	64	0.200	550	18	10	0.8	4008PHCT-ND	.65	5.55	43.48	4008PHTB-ND	177.72	276.12	260.57/M	240.26/M	2222 021 34102
	1500	94	0.230	690	25	10	0.8	4009PHCT-ND	.85	7.29	57.11	4009PHTB-ND	233.43	362.68	342.26/M	315.59/M	2222 021 90525
	1500	94	0.230	740	30	10	0.8	4010PHBK-ND	1.21	10.35	81.08	—	331.42	514.92	485.92/M	448.06/M	2222 021 14152
	2200	136	0.250	800	30	12.5	0.8	4011PHBK-ND	1.35	11.55	90.48	—	369.84	574.62	542.26/M	500.00/M	2222 021 14222
	3300	202	0.270	1000	30	12.5	0.8	4012PHBK-ND	1.38	11.82	92.59	—	378.49	588.06	554.93/M	511.69/M	2222 021 14332
	4700	286	0.290	1180	30	15	0.8	4013PHBK-ND	1.58	13.56	106.22	—	434.21	674.62	636.62/M	587.02/M	2222 021 14472
	6800	412	0.340	1480	30	18	0.8	4014PHBK-ND	1.84	15.75	123.38	—	504.33	783.58	739.44/M	681.82/M	2222 021 14682
	10000	604	0.400	1860	38	18	0.8	4015PHBK-ND	2.33	19.98	156.51	—	639.78	994.02	938.03/M	864.94/M	2222 021 14103
	15000	904	0.500	2250	38	21	0.8	4016PHBK-ND	2.94	25.20	197.40	—	806.93	1253.73	1183.10/M	1090.91/M	2222 021 14153
16	68	11	0.160	90	10	4.5	0.6	4017PHCT-ND	.32	2.76	21.62	4017PHTB-ND	—	137.31	129.58/M	119.48/M	2222 021 35689
	150	18	0.160	140	10	6	0.6	4018PHCT-ND	.36	3.12	24.44	4018PHTB-ND	—	155.22	146.48/M	135.07/M	2222 021 35151
	220	25	0.160	210	11	8	0.6	4019PHCT-ND	.47	3.99	31.26	4019PHTB-ND	127.76	198.51	187.33/M	172.73/M	2222 021 35221
	330	36	0.160	290	18	6.5	0.8	4020PHCT-ND	.47	3.99	31.26	4020PHTB-ND	—	198.51	187.33/M	172.73/M	2222 021 35331
	470	49	0.160	380	18	8	0.8	4021PHCT-ND	.55	4.68	36.66	4021PHTB-ND	149.86	232.83	219.72/M	202.60/M	2222 021 35471
	680	69	0.160	500	18	10	0.8	4022PHCT-ND	.67	5.70	44.65	4022PHTB-ND	182.52	283.58	267.61/M	246.76/M	2222 021 35681
	1000	100	0.160	660	25	10	0.8	4023PHCT-ND	.85	7.29	57.11	4023PHTB-ND	233.43	362.68	342.26/M	315.59/M	2222 021 90518
	1000	100	0.160	700	30	10	0.8	4024PHBK-ND	1.21	10.41	81.55	—	333.34	517.91	488.74/M	450.65/M	2222 021 15102
	1500	148	0.190	740	30	12.5	0.8	4025PHBK-ND	1.35	11.61	90.95	—	371.77	577.61	545.07/M	502.60/M	2222 021 15152
	2200	216	0.210	890	30	12.5	0.8	4026PHBK-ND	1.37	11.76	92.12	—	376.57	585.07	552.12/M	509.09/M	2222 021 15222
	3300	321	0.230	1130	30	15	0.8	4027PHBK-ND	1.58	13.56	106.22	—	434.21	674.62	636.62/M	587.02/M	2222 021 15332
	4700	455	0.250	1410	30	18	0.8	4028PHBK-ND	1.83	15.72	123.14	—	503.37	782.09	738.03/M	680.52/M	2222 021 15472
	6800	656	0.300	1780	38	18	0.8	4029PHBK-ND	2.31	19.83	155.34	—	634.98	986.56	930.99/M	858.45/M	2222 021 15682
	10000	964	0.360	2170	38	21	0.8	4030PHBK-ND	2.89	24.78	194.11	—	793.48	1232.83	1163.38/M	1072.73/M	2222 021 15103
25	47	11	0.140	80	10	4.5	0.6	4031PHCT-ND	.32	2.76	21.62	4031PHTB-ND	—	137.31	129.58/M	119.48/M	2222 021 36479
	100	19	0.140	150	10	6.0	0.6	4032PHCT-ND	.36	3.12	24.44	4032PHTB-ND	—	155.22	146.48/M	135.07/M	2222 021 36101
	150	27	0.140	190	11	8.0	0.6	4033PHCT-ND	.47	3.99	31.26	4033PHTB-ND	127.76	198.51	187.33/M	172.73/M	2222 021 90535
	150	27	0.140	210	18	6.5	0.8	4034PHCT-ND	.47	3.99	31.26	4034PHTB-ND	—	198.51	187.33/M	172.73/M	2222 021 36151
	220	37	0.140	250	18	6.5	0.8	4035PHCT-ND	.47	3.99	31.26	4035PHTB-ND	—	198.51	187.33/M	172.73/M	2222 021 36221
	330	54	0.140	340	18	8.0	0.8	4036PHCT-ND	.53	4.50	35.25	4036PHTB-ND	144.10	223.88	211.27/M	194.81/M	2222 021 36331
	470	75	0.140	450	18	10	0.8	4037PHCT-ND	.65	5.55	43.48	4037PHTB-ND	177.72	276.12	260.57/M	240.26/M	2222 021 36471
	680	106	0.140	560	25	10	0.8	4038PHCT-ND	.85	7.29	57.11	4038PHTB-ND	233.43	362.68	342.26/M	315.59/M	2222 021 90528
	680	106	0.140	640	30	10	0.8	4039PHBK-ND	1.21	10.41	81.55	—	333.34	517.91	488.74/M	450.65/M	2222 021 16681
	1000	154	0.140	720	30	12.5	0.8	4040PHBK-ND	1.36	11.67	91.42	—	373.69	580.59	547.89/M	505.20/M	2222 021 16102
	1500	229	0.170	790	30	12.5	0.8	4041PHBK-ND	1.37	11.76	92.12	—	376.57	585.07	552.12/M	509.09/M	2222 021 16152
	2200	334	0.190	1030	30	15	0.8	4042PHBK-ND	1.58	13.56	106.22	—	434.21	674.62	636.62/M	587.02/M	2222 021 16222
	3300	499	0.210	1310	30	18	0.8	4043PHBK-ND	1.85	15.84	124.08	—	507.22	788.06	743.67/M	685.72/M	2222 021 16332
	4700	709	0.230	1680	38	18	0.8	4044PHBK-ND	2.33	19.95	156.28	—	638.82	992.53	936.62/M	863.64/M	2222 021 16472
	6800	1024	0.280	2070	38	21	0.8	4045PHBK-ND	2.92	24.99	195.76	—	800.21	1243.28	1173.24/M	1081.82/M	2222 021 16682
40	22	9.0	0.110	60	10	4.5	0.6	4046PHCT-ND	.32	2.76	21.62	4046PHTB-ND	—	137.31	129.58/M	119.48/M	2222 021 37229
	47	15	0.110	110	10	6.0	0.6	4047PHCT-ND	.36	3.12	24.44	4047PHTB-ND	—	155.22	146.48/M	135.07/M	2222 021 37479
	100	28	0.110	170	11	8.0	0.6	4048PHCT-ND	.47	3.99	31.26	4048PHTB-ND	127.76	198.51	187.33/M	172.73/M	2222 021 90538
	100	28	0.110	190	18	6.5	0.8	4049PHCT-ND	.47	3.99	31.26	4049PHTB-ND	—	198.51	187.33/M	172.73/M	2222 021 37101
	150	40	0.110	250	18	8	0.8	4050PHCT-ND	.49	4.17	32.67	4050PHTB-ND	133.53	207.46	195.78/M	180.52/M	2222 021 37151
	220	57	0.110	330	18	10	0.8	4051PHCT-ND	.65	5.55	43.48	4051PHTB-ND	177.72	276.12	260.57/M	240.26/M	2222 021 37221
	330	83	0.110	430	25	10	0.8	4052PHCT-ND	.83	7.08	55.46	4052PHTB-ND	226.71	352.24	332.40/M	306.50/M	2222 021 37331
	470	117	0.110	520	25	10	0.8	4053PHCT-ND	.85	7.29	57.11	4053PHTB-ND	233.43	362.68	342.26/M	315.59/M	2222 021 90515
	470	117	0.120	570	30	10	0.8	4054PHBK-ND	1.22	10.44	81.78	—	334.30	519.40	490.14/M	451.95/M	2222 021 17471
	680	167	0.120	620	30	12.5	0.8	4055PHBK-ND	1.36	11.67	91.42	—	373.69	580.59	547.89/M	505.20/M	2222 021 17681
	1000	244	0.120	770	30	12.5	0.8	4056PHBK-ND	1.41	12.09	94.71	—	387.14	601.49	567.61/M	523.38/M	2222 021 17102
	1500	364	0.150	930	30	15	0.8	4057PHBK-ND	1.60	13.74	107.63	—	439.97	683.58	645.07/M	594.81/M	2222 021 17152
	2200	532	0.170	1200	30	18	0.8	4058PHBK-ND	2.14	18.30	143.35	—	585.99	910.44	859.16/M	792.21/M	2222 021 17222
	3300	796	0.190	1550	38	18	0.8	4059PHBK-ND	2.43	20.85	163.33	—	667.64	1037.31	978.88/M	902.60/M	2222 021 17332
	4700	1132	0.210	1880	38	21	0.8	4060PHBK-ND	2.99	25.62	200.69	—	820.38	1274.62	1202.82/M	1109.09/M	2222 021 17472
63	0.47	4.2	0.090	8.0	10	4.5	0.6	4061PHCT-ND	.28	2.40	18.80	4061PHTB-ND	—	119.40	112.68/M	103.90/M	2222 021 38477
	1.0	4.4	0.090	12	10	4.5	0.6	4062PHCT-ND	.28	2.40	18.80	4062PHTB-ND	—	119.40	112.68/M	103.90/M	2222 021 38108
	2.2	4.8	0.090	21	10	4.5	0.6	4063PHCT-ND	.28	2.40	18.80	4063PHTB-ND	—	119.40	112.68/M	103.90/M	2222 021 38228
	3.3	5.2	0.090	25	10	4.5	0.6	4064PHCT-ND	.28	2.40	18.80	4064PHTB-ND	—	119.40	112.68/M	103.90/M	2222 021 38338
	4.7	5.8	0.090	31	10	4.5	0.6	4065PHCT-ND	.28	2.40	18.80	4065PHTB-ND	—	119.40	112.68/M	103.90/M	2222 021 38478
	10	7.8	0.080	50	10	4.5	0.6	4066PHCT-ND	.28	2.40	18.80	4066PHTB-ND	—	119.40	112.68/M	103.90/M	2222 021 38109
	15	9.5	0.080	55	10	4.5	0.6	4067PHCT-ND	.32	2.76	21.62	4067PHTB-ND	—	137.31	129.58/M	119.48/M	2222 021 38159
	22	12	0.080	90	10	6.0	0.6	4068PHCT-ND	.32	2.76	21.62	4068PHTB-ND	—	137.31	129.58/M	119.48/M	2222 021 38229
	33	16	0.080	100	10	6.0	0.6	4069PHCT-ND	.36	3.12	24.44	4069PHTB-ND	—	155.22	146.48/M	135.07/M	2222 021 38339
	47	22	0.080	140	11	8.0	0.6	4070PHCT-ND	.49	4.17	32.67	4070PHTB-ND	133.53	207.46	195.78/M	180.52/M	2222 021 90542
	47	22	0.080	150	18	6.5	0.8	4071PHCT-ND	.42	3.63	28.44	4071PHTB-ND	—	180.60	170.43/M	157.15/M	2222 021 38479
	68	30	0.080	160	11	8.0	0.6	4072PHCT-ND	.49	4.17	32.67	4072PHTB-ND	133.53	207.46	195.78/M	180.52/M	2222 021 90545
	68	30	0.080	170	18	6.5	0.8	4073PHCT-ND	.49	4.17	32.67	4073PHTB-ND	—	207.46	195.78/M	180.52/M	2222 021 38689
	100	42	0.080	250	18	8.0	0.8	4074PHCT-ND	.55	4.68	36.66	4074PHTB-ND	149.86	232.83	219.72/M	202.60/M	2222 021 38101
	150	61	0.080	320	18	10	0.8	4075PHCT-ND	.67	5.70	44.65	4075PHTB-ND	182.52	283.58	267.61/M	246.76/M	2222 021 38151
	220	88	0.080	430	25	10	0.8	4076PHCT-ND	.87	7.44	58.28	4076PHTB-ND	238.24	370.15	349.30/M	322.08/M	2222 021 90512
	220	88	0.080	480	30	10	0.8	4077PHBK-ND	1.20	10.32	80.84	—	330.46	513.43	484.51/M	446.76/M	2222 021 18221
	330	129	0.080	530	30	12.5	0.8	4078PHBK-ND	1.34	11.46	89.77	—	366.96	570.15	538.03/M	496.11/M	2222 021 18331
	470	182	0.080	630	30	12.5	0.8	4079PHBK-ND	1.37	11.73	91.89	—	375.61	583.58	550.71/M	507.80/M	2222 021 18471
	680	261	0.080	830	30	15	0.8	4080PHBK-ND	1.55	13.32	104.34	—	426.52	662.68	625.36/M	576.63/M	2222 021 18681
	1000	382	0.080	1120	30	18	0.8	4081PHBK-ND	1.80	15.45	121.03	—	494.73	768.65	725.36/M	668.84/M	2222 021 18102
	1500	571	0.110	1350	38	18	0.8	4082PHBK-ND	2.31	19.80	155.10	—	634.02	985.07	929.58/M	857.15/M	2222 021 18152
	2200	836	0.130	1780	38	21	0.8	4083PHBK-ND	2.87	24.57	192.47	—	786.76	1222.38	1153.52/M	1063.64/M	2222 021 18222
100	1.0	4.6	0.080	14	10	4.5	0.6	4084PHCT-ND	.30	2.61	20.45	4084PHTB-ND	—	129.85	122.54/M	112.99/M	2222 021 39108
	2.2	5.3	0.080	20	10	4.5	0.6	4085PHCT-ND	.30	2.61	20.45	4085PHTB-ND	—	129.85	122.54/M	112.99/M	2222 021 39228
	4.7	7.0	0.080	30	10	4.5	0.6	4086PHCT-ND	.34	2.94	23.03	4086PHTB-ND	—	146.27	138.03/M	127.28/M	2222 021 39478
	10	10	0.080	65	10	6.0	0.6	4087PHCT-ND	.34	2.94	23.03	4087PHTB-ND	—	146.27	138.03/M	127.28/M	2222 021 39109
	15	13	0.080	77	11	8.0	0.6	4088PHCT-ND	.47	3.99	31.26	4088PHTB-ND	127.76	198.51	187.33/M	172.73/M	2222 021 90548
	15	13	0.080	85	18	6.5	0.8	4089PHCT-ND	.42	3.63	28.44	4089PHTB-ND	—	180.60	170.43/M	157.15/M	2222 021 39159
	22	17	0.080	95	11	8.0	0.6	4090PHCT-ND	.49	4.17	32.67	4090PHTB-ND	133.53	207.46	195.78/M	180.52/M	2222 021 90552
	22	17	0.080	100	18	6.5	0.8	4091PHCT-ND	.44	3.81	29.85	4091PHTB-ND	—	189.55	178.88/M	164.94/M	2222 021 39229
	33	24	0.080	120	18	6.5	0.8	4092PHCT-ND	.49	4.17	32.67	4092PHTB-ND	—	207.46	195.78/M	180.52/M	2222 021 39339
	47	32	0.080	160	18	8.0	0.8	4093PHCT-ND	.57	4.86	38.07	4093PHTB-ND	155.62	241.79	228.17/M	210.39/M	2222 021 39479
	68	45	0.080	220	18	10	0.8	4094PHCT-ND	.69	5.91	46.30	4094PHTB-ND	189.25	294.03	277.47/M	255.85/M	2222 021 39689
	100	64	0.080	300	25	10	0.8	4095PHCT-ND	.91	7.80	61.10	4095PHTB-ND	249.77	388.06	366.20/M	337.67/M	2222 021 90532
	100	64	0.070	360	30	10	0.8	4096PHBK-ND	1.21	10.41	81.55	—	333.34	517.91	488.74/M	450.65/M	2222 021 19101
	150	94	0.070	420	30	12.5	0.8	4097PHBK-ND	1.38	11.82	92.59	—	378.49	588.06	554.93/M	511.69/M	2222 021 19151
	220	136	0.080	460	30	12.5	0.8	4098PHBK-ND	1.40	11.97	93.77	—	383.29	595.52	561.98/M	518.19/M	2222 021 19221
	330	202	0.090	580	30	15	0.8	4099PHBK-ND	1.60	13.74	107.63	—	439.97	683.58	645.07/M	594.81/M	2222 021 19331
	470	286	0.090	740	30	18	0.8	4100PHBK-ND	1.88	16.14	126.43	—	516.82	802.98	757.75/M	698.71/M	2222 021 19471
	680	412	0.090	1050	38	18	0.8	4101PHBK-ND	2.38	20.43	160.04	—	654.19	1016.41	959.16/M	884.42/M	2222 021 19681
	1000	604	0.100	1260	38	21	0.8	4102PHBK-ND	2.99	25.62	200.69	—	820.38	1274.62	1202.82/M	1109.09/M	2222 021 19102

* “CT” stands for Cut Tape; “TB” stands for Tape and Box; “BK” stands for Bulk.

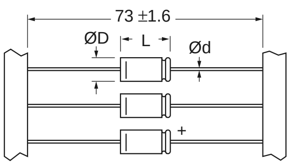
BC COMPONENTS

AHT 118 Axial High Temperature Electrolytic Capacitors

FEATURES:
- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Case Ø10mm x 30mm to 21mm x 40 mm with pressure relief
- Taped versions up to case Ø15mm x 30 mm available for automatic insertion
- Charge and discharge proof
- Extra long useful life: 4,000 hours at 125°C, high reliability
- Extended temperature range: 125°C (usable up to 150°C)
- Miniaturized, high CV-product per unit volume

APPLICATIONS:
- Automotive, industrial and telecommunication
- Smoothing, filtering, coupling, decoupling, timing
- For use after very long storage (10 years) without voltage applied
- Portable and mobile equipment (small size, low mass)
- Low mounting height boards, vibration and shock resistant
- Outdoor applications, e.g. aerial amplifiers

Dimensions in mm.



Case size 10mm x 30mm and above are bulk
Form BA: Taped in box (ammopack)
Case ØD x L = 6.5mm x 18mm to 10mm x 25mm

DESCRIPTION	**VALUE**	
Case sizes (ØD$_{nom}$ x L$_{nom}$ in mm)	6.5 x 18 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C$_R$	1 to 10,000 µF	
Tolerance on C$_R$	±20%	
Rated voltage range, U$_R$	6.3 to 200V	
Category temperature range	-40°C to +125°C	-55°C to +125°C
Endurance test at 150°C, with no I$_R$ applied	500 hours	1,000 hours
Endurance test at 125°C	2,000 hours	3,000 hours
Useful life at 125°C	4,000 hours	4,000 hours
Useful life at 40°C, 1.8 x I$_R$ applied	500,000 hours	500,000 hours
Shelf life at 0 V, 125°C U$_R$ = 6.3 to 63V U$_R$ = 100 and 200 V	500 hours 100 hours	
Based on sectional specification	IEC 384-4/CECC 30300, LL grade	
Climatic category IEC 68 (DIN 40040)	40/125/56 (GKD)	55/125/56 (FKD)

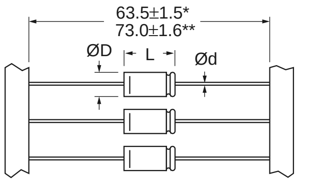
WV (VDC)	**Cap. (µF)**	**Leakage Curr. (µA)**	**tan δ**	**Ripple Curr. (mA)**	**Dimensions (mm)**			**Digi-Key Part No.**	**Pricing***			**Digi-Key Part No.**	**Pricing***				**BC Components Part No.**
					L	**D**	**d**		**1**	**10**	**100**		**500**	**1,000**	**5,000**	**10,000**	
6.3	1000	42	0.500	251	18	10	0.8	4103PHCT-ND	1.86	15.96	125.02	4103PHTB-ND	511.06	794.03	749.30/M	690.91/M	2222 118 33102
	1500	61	0.500	352	25	10	0.8	4104PHCT-ND	2.10	18.00	141.00	4104PHTB-ND	576.38	895.52	845.07/M	779.22/M	2222 118 90503
10	220	20	0.350	109	18	6.5	0.8	4105PHCT-ND	1.56	13.35	104.58	4105PHTB-ND	—	664.18	626.76/M	577.93/M	2222 118 34221
	330	24	0.350	150	18	8.0	0.8	4106PHCT-ND	1.63	14.01	109.75	4106PHTB-ND	448.62	697.01	657.75/M	606.50/M	2222 118 34331
	470	32	0.350	179	18	8.0	0.8	4107PHCT-ND	1.63	14.01	109.75	4107PHTB-ND	448.62	697.01	657.75/M	606.50/M	2222 118 34471
	1000	64	0.350	343	25	10	0.8	4108PHCT-ND	1.98	16.98	133.01	4108PHTB-ND	543.72	844.77	797.19/M	735.07/M	2222 118 90505
	1000	64	0.320	409	30	10	0.8	4109PHBK-ND	1.21	10.41	81.55	—	333.34	517.91	488.74/M	450.65/M	2222 118 14102
	1500	94	0.320	590	30	12.5	0.8	4110PHBK-ND	1.34	11.52	90.24	—	368.88	573.13	540.85/M	498.71/M	2222 118 14152
	2200	136	0.400	634	30	12.5	0.8	4111PHBK-ND	1.37	11.76	92.12	—	376.57	585.07	552.12/M	509.09/M	2222 118 14222
	3300	202	0.400	826	30	15	0.8	4112PHBK-ND	1.58	13.53	105.99	—	433.25	673.13	635.21/M	585.72/M	2222 118 14332
	4700	286	0.460	1035	30	18	0.8	4113PHBK-ND	1.83	15.66	122.67	—	501.45	779.10	735.21/M	677.93/M	2222 118 14472
	6800	412	0.530	1395	38	18	0.8	4114PHBK-ND	2.30	19.74	154.63	—	632.10	982.08	926.76/M	854.55/M	2222 118 14682
	10000	604	0.530	1674	38	21	0.8	4115PHBK-ND	2.89	24.78	194.11	—	793.48	1232.83	1163.38/M	1072.73/M	2222 118 14103
16	220	25	0.250	145	18	8.0	0.8	4116PHCT-ND	1.70	14.55	113.98	4116PHTB-ND	465.91	723.88	683.10/M	629.87/M	2222 118 35221
	330	36	0.250	204	18	10	0.8	4117PHCT-ND	1.88	16.11	126.20	4117PHTB-ND	515.86	801.49	756.34/M	697.41/M	2222 118 35331
	470	49	0.250	243	18	10	0.8	4118PHCT-ND	1.86	15.96	125.02	4118PHTB-ND	511.06	794.03	749.30/M	690.91/M	2222 118 35471
	680	69	0.220	389	30	10	0.8	4119PHBK-ND	1.21	10.41	81.55	—	333.34	517.91	488.74/M	450.65/M	2222 118 15681
	1000	100	0.220	557	30	12.5	0.8	4120PHBK-ND	1.36	11.67	91.42	—	373.69	580.59	547.89/M	505.20/M	2222 118 15102
	1500	148	0.290	609	30	12.5	0.8	4121PHBK-ND	1.38	11.79	92.36	—	377.53	586.56	553.52/M	510.39/M	2222 118 15152
	2200	215	0.290	790	30	15	0.8	4122PHBK-ND	1.58	13.56	106.22	—	434.21	674.62	636.62/M	587.02/M	2222 118 15222
	3300	321	0.340	1008	30	18	0.8	4123PHBK-ND	1.85	15.87	124.32	—	508.18	789.55	745.07/M	687.02/M	2222 118 15332
	4700	455	0.340	1363	38	18	0.8	4124PHBK-ND	2.33	19.95	156.28	—	638.82	992.53	936.62/M	863.64/M	2222 118 15472
	6800	657	0.380	1627	38	21	0.8	4125PHBK-ND	2.92	24.99	195.76	—	800.21	1243.28	1173.24/M	1081.82/M	2222 118 15682
25	100	20	0.180	102	18	6.5	0.8	4126PHCT-ND	1.56	13.35	104.58	4126PHTB-ND	—	664.18	626.76/M	577.93/M	2222 118 36101
	220	37	0.180	196	18	10	0.8	4127PHCT-ND	1.90	16.26	127.37	4127PHTB-ND	520.66	808.95	763.38/M	703.90/M	2222 118 36221
	330	54	0.180	274	25	10	0.8	4128PHCT-ND	2.12	18.18	142.41	4128PHTB-ND	582.14	904.47	853.52/M	787.02/M	2222 118 36331
	470	75	0.180	327	25	10	0.8	4129PHCT-ND	2.32	19.92	156.04	4129PHTB-ND	637.86	991.04	935.21/M	862.34/M	2222 118 90509
	470	75	0.180	366	30	10	0.8	4130PHBK-ND	1.22	10.47	82.02	—	335.26	520.89	491.55/M	453.25/M	2222 118 16471
	680	106	0.180	515	30	12.5	0.8	4131PHBK-ND	1.37	11.70	91.65	—	374.65	582.09	549.30/M	506.50/M	2222 118 16681
	1000	154	0.240	531	30	12.5	0.8	4132PHBK-ND	1.42	12.15	95.18	—	389.06	604.47	570.43/M	525.98/M	2222 118 16102
	1500	229	0.250	691	30	15	0.8	4133PHBK-ND	1.65	14.10	110.45	—	451.50	701.49	661.98/M	610.39/M	2222 118 16152
	2200	334	0.260	919	30	18	0.8	4134PHBK-ND	1.89	16.17	126.67	—	517.78	804.47	759.16/M	700.00/M	2222 118 16222
	3300	499	0.260	1280	38	18	0.8	4135PHBK-ND	2.43	20.85	163.33	—	667.64	1037.31	978.88/M	902.60/M	2222 118 16332
	4700	709	0.280	1464	38	21	0.8	4136PHBK-ND	3.01	25.83	202.34	—	827.11	1285.07	1212.68/M	1118.19/M	2222 118 16472
40	47	20	0.110	89.8	18	6.5	0.8	4137PHCT-ND	1.63	14.01	109.75	4137PHTB-ND	—	697.01	657.75/M	606.50/M	2222 118 37479
	100	28	0.110	147	18	8.0	0.8	4138PHCT-ND	1.72	14.73	115.39	4138PHTB-ND	471.67	732.83	691.55/M	637.67/M	2222 118 37101
	150	40	0.110	207	18	10	0.8	4139PHCT-ND	2.08	17.85	139.83	4139PHTB-ND	571.58	888.06	838.03/M	772.73/M	2222 118 37151
	220	57	0.110	287	25	10	0.8	4140PHCT-ND	2.30	19.74	154.63	4140PHTB-ND	632.10	982.08	926.76/M	854.55/M	2222 118 90512
	220	57	0.100	338	30	10	0.8	4141PHBK-ND	1.21	10.35	81.08	—	331.42	514.92	485.92/M	448.06/M	2222 118 17221
	330	83	0.100	484	30	12.5	0.8	4142PHBK-ND	1.37	11.70	91.65	—	374.65	582.09	549.30/M	506.50/M	2222 118 17331
	470	117	0.110	522	30	12.5	0.8	4143PHBK-ND	1.38	11.85	92.83	—	379.45	589.55	556.34/M	512.99/M	2222 118 17471
	680	167	0.110	695	30	15	0.8	4144PHBK-ND	1.58	13.56	106.22	—	434.21	674.62	636.62/M	587.02/M	2222 118 17681
	1000	244	0.130	852	30	18	0.8	4145PHBK-ND	1.84	15.78	123.61	—	505.29	785.07	740.85/M	683.12/M	2222 118 17102
	1500	364	0.130	1196	38	18	0.8	4146PHBK-ND	2.38	20.37	159.57	—	652.27	1013.43	956.34/M	881.82/M	2222 118 17152
	2200	532	0.150	1403	38	21	0.8	4147PHBK-ND	2.94	25.20	197.40	—	806.93	1253.73	1183.10/M	1090.91/M	2222 118 17222
63	1.0	20	0.070	16.4	18	6.5	0.8	4148PHCT-ND	1.63	14.01	109.75	4148PHTB-ND	—	697.01	657.75/M	606.50/M	2222 118 38108
	2.2	20	0.070	24.3	18	6.5	0.8	4149PHCT-ND	1.63	14.01	109.75	4149PHTB-ND	—	697.01	657.75/M	606.50/M	2222 118 38228
	4.7	20	0.070	35.6	18	6.5	0.8	4150PHCT-ND	1.63	14.01	109.75	4150PHTB-ND	—	697.01	657.75/M	606.50/M	2222 118 38478
	10	20	0.070	51.9	18	6.5	0.8	4151PHCT-ND	1.63	14.01	109.75	4151PHTB-ND	—	697.01	657.75/M	606.50/M	2222 118 38109
	22	20	0.070	77	18	6.5	0.8	4152PHCT-ND	1.68	14.37	112.57	4152PHTB-ND	—	714.92	674.65/M	622.08/M	2222 118 38229
	47	22	0.070	126	18	8.0	0.8	4153PHCT-ND	1.78	15.24	119.38	4153PHTB-ND	488.00	758.21	715.50/M	659.74/M	2222 118 38479
	100	42	0.070	243	25	10	0.8	4154PHCT-ND	2.08	17.85	139.83	4154PHTB-ND	571.58	888.06	838.03/M	772.73/M	2222 118 90514
	100	42	0.070	262	30	10	0.8	4155PHBK-ND	1.22	10.44	81.78	—	334.30	519.40	490.14/M	451.95/M	2222 118 18101
	150	61	0.070	415	30	12.5	0.8	4156PHBK-ND	1.38	11.82	92.59	—	378.49	588.06	554.93/M	511.69/M	2222 118 18151
	220	87	0.080	454	30	12.5	0.8	4157PHBK-ND	1.40	12.03	94.24	—	385.21	598.50	564.79/M	520.78/M	2222 118 18221
	330	129	0.090	544	30	15	0.8	4158PHBK-ND	1.61	13.83	108.34	—	442.85	688.06	649.30/M	598.71/M	2222 118 18331
	470	182	0.090	695	30	18	0.8	4159PHBK-ND	1.88	16.14	126.43	—	516.82	802.98	757.75/M	698.71/M	2222 118 18471
	680	261	0.090	971	38	18	0.8	4160PHBK-ND	2.38	20.43	160.04	—	654.19	1016.41	959.16/M	884.42/M	2222 118 18681
	1000	383	0.100	1161	38	21	0.8	4161PHBK-ND	2.99	25.62	200.69	—	820.38	1274.62	1202.82/M	1109.09/M	2222 118 18102
100	4.7	20	0.070	36	18	6.5	0.8	4162PHCT-ND	1.63	14.01	109.75	4162PHTB-ND	—	697.01	657.75/M	606.50/M	2222 118 39478
	10	20	0.070	52	18	6.5	0.8	4163PHCT-ND	1.68	14.37	112.57	4163PHTB-ND	—	714.92	674.65/M	622.08/M	2222 118 39109
	22	20	0.070	91	18	8.0	0.8	4164PHCT-ND	1.82	15.60	122.20	4164PHTB-ND	499.53	776.12	732.40/M	675.33/M	2222 118 39229
	33	24	0.070	140	25	10	0.8	4165PHCT-ND	2.16	18.51	145.00	4165PHTB-ND	592.71	920.89	869.02/M	801.30/M	2222 118 39339
	47	33	0.070	170	25	10	0.8	4166PHCT-ND	2.36	20.25	158.63	4166PHTB-ND	648.43	1007.46	950.71/M	876.63/M	2222 118 90536
	47	33	0.080	178	30	10	0.8	4167PHBK-ND	1.23	10.53	82.49	—	337.18	523.88	494.37/M	455.85/M	2222 118 19479
	68	45	0.080	278	30	12.5	0.8	4168PHBK-ND	1.36	11.67	91.42	—	373.69	580.59	547.89/M	505.20/M	2222 118 19689
	100	64	0.090	303	30	12.5	0.8	4169PHBK-ND	1.40	12.03	94.24	—	385.21	598.50	564.79/M	520.78/M	2222 118 19101
	150	94	0.100	368	30	15	0.8	4170PHBK-ND	1.61	13.83	108.34	—	442.85	688.06	649.30/M	598.71/M	2222 118 19151
	220	136	0.100	481	30	18	0.8	4171PHBK-ND	1.89	16.17	126.67	—	517.78	804.47	759.16/M	700.00/M	2222 118 19221
	330	202	0.100	694	38	18	0.8	4172PHBK-ND	2.41	20.67	161.92	—	661.88	1028.35	970.43/M	894.81/M	2222 118 19331
	470	286	0.100	833	38	21	0.8	4173PHBK-ND	3.01	25.83	202.34	—	827.11	1285.07	1212.68/M	1118.19/M	2222 118 19471
200	2.2	20	0.060	27	18	6.5	0.8	4174PHCT-ND	1.78	15.24	119.38	4174PHTB-ND	—	758.21	715.50/M	659.74/M	2222 118 90538
	4.7	20	0.060	46	18	8.0	0.8	4175PHCT-ND	1.92	16.47	129.02	4175PHTB-ND	527.39	819.40	773.24/M	712.99/M	2222 118 90541
	10	20	0.060	85	25	10	0.8	4176PHCT-ND	2.65	22.68	177.66	4176PHTB-ND	726.24	1128.35	1064.79/M	981.82/M	2222 118 90543
	15	22	0.046	129	30	10	0.8	4177PHBK-ND	1.23	10.50	82.25	—	336.22	522.39	492.96/M	454.55/M	2222 118 92159
	22	31	0.046	198	30	12.5	0.8	4178PHBK-ND	1.36	11.64	91.18	—	372.73	579.10	546.48/M	503.90/M	2222 118 92229
	33	44	0.046	242	30	15	0.8	4179PHBK-ND	1.54	13.23	103.64	—	423.64	658.21	621.13/M	572.73/M	2222 118 92339
	47	61	0.046	317	30	18	0.8	4180PHBK-ND	1.78	15.24	119.38	—	488.00	758.21	715.50/M	659.74/M	2222 118 92479
	68	86	0.046	428	38	18	0.8	4181PHBK-ND	2.19	18.75	146.88	—	600.40	932.83	880.29/M	811.69/M	2222 118 92689
	100	124	0.046	551	38	21	0.8	4182PHBK-ND	2.70	23.10	180.95	—	739.69	1149.25	1084.51/M	1000.00/M	2222 118 92101

* “CT” stands for Cut Tape; “TB” stands for Tape and Box; “BK” stands for Bulk.

AML 138 Axial Miniature Long-Life Electrolytic Capacitors

FEATURES:
• Polarized aluminum electrolytic capacitors, non-solid • Axial leads, cylindrical aluminum case, insulated with a blue sleeve (case Ø6.3mm x 12.7mm and 7.7mm x 12.7 mm are molded with flame retardant plastic material) • Case Ø10mm x 30mm to 21mm x 40mm with pressure relief • Taped versions up to case Ø15mm x 30 mm available for automatic insertion • Charge and discharge proof • Long useful life: 2,000 to 10,000 hours at 105°C, high reliability • High ripple current capability • Miniaturized, high CV-product per unit volume

APPLICATIONS:
• Industrial, automotive, EDP and telecommunication • Smoothing, filtering, buffering in SMPS; coupling, decoupling, timing • Portable and mobile equipment (small size, low mass) • Standby applications • Low mounting height boards • Vibration and shock resistant



Case size 10mm x 30mm and above are bulk
Form BA: Taped in box (ammopack)
*Case ØD x L = 6.3mm x 12.7mm and 7.7mm x 12.7 mm
**Case ØD x L = 6.5mm x 18mm and 10mm x 25 mm

DESCRIPTION	VALUE	
Case sizes ($ØD_{nom}$ x L_{nom} in mm)	6.3 x 12.7 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	1.0 to 15,000 µF	
Tolerance on C_R	±20%	
Rated voltage range, U_R	6.3 to 100V	
Category temperature range	-40°C to +105°C	
Endurance test at 105°C	1,000 hours	5,000 hours
Useful life at 105°C	2,000 hours	10,000 hours
Useful life at 40°C, I_R applied	1.3 x I_R applied: 200,000 hours	1.8 x I_R applied: 500,000 hours
Shelf life at 0 V, 105°C	500 hours	
Based on sectional specification	IEC 384-4/CECC 30300	
Climatic category IEC 68 (DIN 40040)	40/105/56 (GMF)	

WV (VDC)	Cap. (µF)	Leakage Curr. (µA)	tan δ	Ripple Curr. (mA)	Dimensions (mm)			Digi-Key Part No.	Pricing*			Digi-Key Part No.	Tape & Box Pricing		BC Components Part No.
					L	D	d		1	10	100		500	1,000	
6.3	100	16	0.240	99	12.7	6.3	0.6	4183PHCT-ND	.83	7.08	55.46	4183PHTB-ND	—	352.24	2222 138 33101
	220	31	0.240	160	12.7	7.7	0.6	4184PHCT-ND	.85	7.29	57.11	4184PHTB-ND	233.43	362.68	2222 138 33221
	470	22	0.240	250	18	6.5	0.8	4185PHCT-ND	.89	7.65	59.93	4185PHTB-ND	—	380.60	2222 138 33471
	1000	42	0.240	430	18	10	0.8	4186PHCT-ND	1.35	11.61	90.95	4186PHTB-ND	371.77	577.61	2222 138 33102
	2200	87	0.290	640	25	10	0.8	4187PHCT-ND	1.49	12.81	100.35	4187PHTB-ND	410.19	637.31	2222 138 33222
10	150	33	0.200	140	12.7	7.7	0.6	4188PHCT-ND	.85	7.29	57.11	4188PHTB-ND	233.43	362.68	2222 138 34151
	220	17	0.200	190	18	6.5	0.8	4189PHCT-ND	.87	7.44	58.28	4189PHTB-ND	—	370.15	2222 138 34221
	470	32	0.200	300	18	8.0	0.8	4190PHCT-ND	.91	7.80	61.10	4190PHTB-ND	249.77	388.06	2222 138 34471
	1000	64	0.200	520	25	10	0.8	4191PHCT-ND	1.31	11.25	88.13	4191PHTB-ND	360.24	559.70	2222 138 34102
	1500	94	0.260	560	30	10	0.8	4192PHBK-ND	1.23	10.56	82.72	—	338.14	525.37	2222 138 14152
	2200	140	0.270	750	30	12.5	0.8	4193PHBK-ND	1.37	11.76	92.12	—	376.57	585.07	2222 138 14222
	3300	200	0.280	990	30	15	0.8	4194PHBK-ND	1.57	13.44	105.28	—	430.36	668.65	2222 138 14332
	4700	290	0.310	1200	30	18	0.8	4195PHBK-ND	1.81	15.54	121.73	—	497.61	773.13	2222 138 14472
	6800	410	0.320	1700	38	18	0.8	4196PHBK-ND	2.29	19.65	153.93	—	629.22	977.61	2222 138 14682
	10000	600	0.370	1900	38	18	0.8	4197PHBK-ND	2.47	21.21	166.15	—	679.17	1055.22	2222 138 14103
	15000	900	0.510	2200	38	21	0.8	4198PHBK-ND	3.09	26.46	207.27	—	847.28	1316.41	2222 138 14153
16	22	10	0.120	58	12.7	6.3	0.6	4199PHCT-ND	.83	7.08	55.46	4199PHTB-ND	—	352.24	2222 138 35229
	47	18	0.160	83	12.7	6.3	0.6	4200PHCT-ND	.83	7.08	55.46	4200PHTB-ND	—	352.24	2222 138 35479
	100	35	0.160	130	12.7	7.7	0.6	4201PHCT-ND	.85	7.29	57.11	4201PHTB-ND	233.43	362.68	2222 138 35101
	220	25	0.160	230	18	8.0	0.8	4202PHCT-ND	.91	7.80	61.10	4202PHTB-ND	249.77	388.06	2222 138 35221
	470	49	0.160	360	18	10	0.8	4203PHCT-ND	1.25	10.74	84.13	4203PHTB-ND	343.91	534.33	2222 138 35471
	1000	100	0.190	530	30	10	0.8	4204PHBK-ND	1.23	10.53	82.49	—	337.18	523.88	2222 138 15102
	1500	150	0.190	730	30	12.5	0.8	4205PHBK-ND	1.37	11.73	91.89	—	375.61	583.58	2222 138 15152
	2200	210	0.210	950	30	15	0.8	4206PHBK-ND	1.56	13.38	104.81	—	428.44	665.67	2222 138 15222
	3300	320	0.230	1200	30	18	0.8	4207PHBK-ND	1.82	15.60	122.20	—	499.53	776.12	2222 138 15332
	4700	450	0.280	1400	30	18	0.8	4208PHBK-ND	1.91	16.35	128.08	—	523.55	813.43	2222 138 15472
	6800	660	0.280	1800	38	18	0.8	4209PHBK-ND	2.45	21.00	164.50	—	672.44	1044.77	2222 138 15682
	10000	960	0.350	2100	38	21	0.8	4210PHBK-ND	3.06	26.25	205.63	—	840.56	1305.96	2222 138 15103
25	10	8.0	0.090	46	12.7	6.3	0.6	4211PHCT-ND	.83	7.08	55.46	4211PHTB-ND	—	352.24	2222 138 36109
	22	14	0.140	61	12.7	6.3	0.6	4212PHCT-ND	.83	7.08	55.46	4212PHTB-ND	—	352.24	2222 138 36229
	33	20	0.140	74	12.7	6.3	0.6	4213PHCT-ND	.83	7.08	55.46	4213PHTB-ND	—	352.24	2222 138 36339
	47	27	0.140	96	12.7	7.7	0.6	4214PHCT-ND	.85	7.29	57.11	4214PHTB-ND	233.43	362.68	2222 138 36479
	100	19	0.130	160	18	6.5	0.8	4215PHCT-ND	.87	7.44	58.28	4215PHTB-ND	—	370.15	2222 138 36101
	220	37	0.130	270	18	10	0.8	4216PHCT-ND	1.25	10.74	84.13	4216PHTB-ND	343.91	534.33	2222 138 36221
	470	75	0.130	440	25	10	0.8	4217PHCT-ND	1.31	11.25	88.13	4217PHTB-ND	360.24	559.70	2222 138 36471
	680	110	0.140	500	30	10	0.8	4218PHBK-ND	1.23	10.56	82.72	—	338.14	525.37	2222 138 16681
	1000	150	0.140	670	30	12.5	0.8	4219PHBK-ND	1.38	11.79	92.36	—	377.53	586.56	2222 138 16102
	1500	230	0.150	890	30	15	0.8	4220PHBK-ND	1.58	13.50	105.75	—	432.29	671.64	2222 138 16152
	2200	330	0.160	1200	30	18	0.8	4221PHBK-ND	1.83	15.69	122.91	—	502.41	780.59	2222 138 16222
	3300	500	0.170	1600	38	18	0.8	4222PHBK-ND	2.33	19.98	156.51	—	639.78	994.02	2222 138 16332
	4700	710	0.200	1800	38	18	0.8	4223PHBK-ND	2.47	21.21	166.15	—	679.17	1055.22	2222 138 16472
	6800	1000	0.260	2100	38	21	0.8	4224PHBK-ND	3.19	27.30	213.85	—	874.18	1358.20	2222 138 16682
40	33	29	0.110	91	12.7	7.7	0.6	4225PHCT-ND	.85	7.29	57.11	4225PHTB-ND	233.43	362.68	2222 138 37339
	47	15	0.100	120	18	6.5	0.8	4226PHCT-ND	.87	7.44	58.28	4226PHTB-ND	—	370.15	2222 138 37479
	100	28	0.100	180	18	8.0	0.8	4227PHCT-ND	.91	7.80	61.10	4227PHTB-ND	249.77	388.06	2222 138 37101
	220	57	0.100	350	25	10	0.8	4228PHCT-ND	1.31	11.25	88.13	4228PHTB-ND	360.24	559.70	2222 138 37221
	330	83	0.100	410	30	10	0.8	4229PHBK-ND	1.23	10.50	82.25	—	336.22	522.39	2222 138 17331
	470	120	0.100	550	30	12.5	0.8	4230PHBK-ND	1.36	11.64	91.18	—	372.73	579.10	2222 138 17471
	680	170	0.110	650	30	12.5	0.8	4231PHBK-ND	1.40	12.00	94.00	—	384.25	597.01	2222 138 17681
	1000	240	0.110	840	30	15	0.8	4232PHBK-ND	1.62	13.86	108.57	—	443.81	689.55	2222 138 17102
	1500	360	0.120	1100	30	18	0.8	4233PHBK-ND	1.90	16.29	127.61	—	521.62	810.44	2222 138 17152
	2200	530	0.130	1500	38	18	0.8	4234PHBK-ND	2.42	20.76	162.62	—	664.76	1032.83	2222 138 17222
	3300	800	0.150	1700	38	21	0.8	4235PHBK-ND	3.06	26.25	205.63	—	840.56	1305.96	2222 138 17332
50	10	13	0.090	51	12.7	6.3	0.6	4236PHCT-ND	.83	7.08	55.46	4236PHTB-ND	—	352.24	2222 138 31109
	22	25	0.090	82	12.7	7.7	0.6	4237PHCT-ND	.85	7.29	57.11	4237PHTB-ND	233.43	362.68	2222 138 31229
	100	34	0.080	230	18	10	0.8	4238PHCT-ND	1.13	9.69	75.91	4238PHTB-ND	310.29	482.09	2222 138 31101
63	4.7	9.0	0.090	35	12.7	6.3	0.6	4239PHCT-ND	.83	7.08	55.46	4239PHTB-ND	—	352.24	2222 138 38478
	10	16	0.080	59	12.7	7.7	0.6	4240PHCT-ND	.85	7.29	57.11	4240PHTB-ND	233.43	362.68	2222 138 38109
	22	12	0.070	100	18	6.5	0.8	4241PHCT-ND	.87	7.44	58.28	4241PHTB-ND	—	370.15	2222 138 38229
	47	22	0.070	150	18	8.0	0.8	4242PHCT-ND	.91	7.80	61.10	4242PHTB-ND	249.77	388.06	2222 138 38479
	100	42	0.070	280	25	10	0.8	4243PHCT-ND	1.31	11.25	88.13	4243PHTB-ND	360.24	559.70	2222 138 38101
	150	61	0.110	340	30	10	0.8	4244PHBK-ND	1.21	10.41	81.55	—	333.34	517.91	2222 138 18151
	220	88	0.110	470	30	12.5	0.8	4245PHBK-ND	1.34	11.52	90.24	—	368.88	573.13	2222 138 18221
	330	130	0.120	570	30	12.5	0.8	4246PHBK-ND	1.39	11.91	93.30	—	381.37	592.53	2222 138 18331
	470	180	0.120	730	30	15	0.8	4247PHBK-ND	1.59	13.65	106.93	—	437.09	679.10	2222 138 18471
	680	260	0.120	930	30	18	0.8	4248PHBK-ND	1.85	15.87	124.32	—	508.18	789.55	2222 138 18681
	1000	380	0.120	1300	38	18	0.8	4249PHBK-ND	2.35	20.16	157.92	—	645.55	1002.98	2222 138 18102
	1500	570	0.130	1600	38	21	0.8	4250PHBK-ND	2.96	25.41	199.05	—	813.66	1264.17	2222 138 18152
100	1.0	5.0	0.090	16	12.7	6.3	0.6	4251PHCT-ND	.83	7.08	55.46	4251PHTB-ND	—	352.24	2222 138 39108
	2.2	7.0	0.090	24	12.7	6.3	0.6	4252PHCT-ND	.83	7.08	55.46	4252PHTB-ND	—	352.24	2222 138 39228
	4.7	12	0.080	40	12.7	7.7	0.6	4253PHCT-ND	.85	7.29	57.11	4253PHTB-ND	233.43	362.68	2222 138 39478
	10	10	0.070	67	18	6.5	0.8	4254PHCT-ND	.87	7.44	58.28	4254PHTB-ND	—	370.15	2222 138 39109
	22	17	0.070	100	18	8.0	0.8	4255PHCT-ND	.91	7.80	61.10	4255PHTB-ND	249.77	388.06	2222 138 39229
	47	32	0.070	190	25	10	0.8	4256PHCT-ND	1.31	11.25	88.13	4256PHTB-ND	360.24	559.70	2222 138 39479
	68	45	0.070	220	30	10	0.8	4257PHBK-ND	1.22	10.44	81.78	—	334.30	519.40	2222 138 19689
	100	64	0.070	290	30	12.5	0.8	4258PHBK-ND	1.35	11.58	90.71	—	370.81	576.12	2222 138 19101
	150	94	0.070	390	30	15	0.8	4259PHBK-ND	1.54	13.17	103.17	—	421.72	655.22	2222 138 19151
	220	140	0.070	470	30	15	0.8	4260PHBK-ND	1.62	13.89	108.81	—	444.77	691.04	2222 138 19221
	330	200	0.080	620	30	18	0.8	4261PHBK-ND	1.91	16.35	128.08	—	523.55	813.43	2222 138 19331
	470	290	0.080	840	38	18	0.8	4262PHBK-ND	2.41	20.64	161.68	—	660.92	1026.86	2222 138 19471
	680	410	0.090	1100	38	21	0.8	4263PHBK-ND	3.01	25.83	202.34	—	827.11	1285.07	2222 138 19681

* "CT" stands for Cut Tape and "BK" stands for Bulk

Panasonic® Bi-Polar Series SU Capacitors

FEATURES:

- Ideal for circuits where polarity is not constant or reverse voltage is applied when switches are turned on or off.
- Life: 2000 hours at +85°C.

SPECIFICATIONS:

Operating Temp. Range: –40°C to +85°C.

Capacitance Tolerance: ±20% (120Hz, +20°C).

Leakage Current: I ≤ 0.03CV + 3(µA) after 5 minutes application of rated working voltage at +20°C.

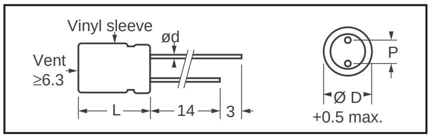
Low Temperature Characteristics: Impedance ratio max. at 120Hz. Following specified values.

Working Volt.		6.3V	10V	16V	25V	35V	50V
Impedance	-25°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	8	6	4	4	4	3

ENDURANCE:

Test Conditions: Duration: 2000 hours. Ambient Temperature: +85°C. Applied Voltage: Rated DC working voltage to each polarity for 1000 hours.

Post Test Requirements: +20°C. Leakage Current: ≤Initial specified value. Capacitance Change: ±20% of initial measured value. tan ∂: ≤150% of initial specified value.



SHELF LIFE:

Test Conditions: Duration: 1000 hours. Ambient Temperature: +85°C. Applied Voltage: none

Post Test Requirements (+20°C): Same limits for "Endurance".

WV	Cap. (µF)	D.C.L. (+20°C/5min.) [µA] max.	tan δ (120Hz/+20°C) (max.)	Ripple Current (mA) rms	Dimensions				Digi-Key Part No.	Pricing						Panasonic Part No.
					D	L	P	d		1	10	100	1,000	5,000	10,000	
6.3	33	9.2	0.30	80	5	11	2.0	0.5	P1141-ND	.37	2.38	16.78	92.00	79.00/M	76.00/M	ECE-A0JN330U
	47	11.8	0.30	90	5	11	2.0	0.5	P1142-ND	.40	2.57	18.15	99.00	86.00/M	83.00/M	ECE-A0JN470U
	100	21.9	0.30	130	6.3	11.2	2.5	0.5	P1143-ND	.44	3.05	21.75	122.00	113.00/M	109.00/M	ECE-A0JN101U
	220	44.5	0.30	200	8	11.5	3.5	0.6	P1144-ND	.54	3.71	26.50	148.00	138.00/M	133.00/M	ECE-A0JN221U
	330	65.3	0.30	250	8	11.5	3.5	0.6	P1145-ND	.67	4.73	33.75	189.00	176.00/M	169.00/M	ECE-A0JN331U
	470	91.8	0.30	310	10	12.5	5.0	0.6	P1146-ND	.88	6.21	45.59	262.00	252.00/M	243.00/M	ECE-A0JN471X
	1000	192.0	0.30	430	10	20	5.0	0.6	P1147-ND	1.23	8.61	63.22	363.00	350.00/M	336.00/M	ECE-A0JN102U
	2200	418.8	0.30	660	12.5	25	5.0	0.6	P1148-ND	1.64	11.61	87.08	515.00	495.00/M	484.00/M	ECE-A0JN222U
	3300	626.7	0.30	760	16	25	7.5	0.8	P1149-ND	2.21	15.66	117.45	694.00	668.00/M	653.00/M	ECE-A0JN332U
	4700	891.3	0.30	1170	16	31.5	7.5	0.8	P1150-ND	2.75	19.64	148.20	963.00	934.00/M	911.00/M	ECE-A0JN472U
	6800	1288.2	0.30	1450	18	35.5	7.5	0.8	P1151-ND	3.75	26.77	202.00	1313.00	1273.00/M	1242.00/M	ECE-A0JN682U
10	22	9.6	0.25	60	5	11	2.0	0.5	P1152-ND	.37	2.38	16.78	92.00	79.00/M	76.00/M	ECE-A1AN220U
	33	12.9	0.25	80	5	11	2.0	0.5	P1153-ND	.40	2.57	18.15	99.00	86.00/M	83.00/M	ECE-A1AN330U
	47	17.1	0.25	90	5	11	2.0	0.5	P1154-ND	.47	2.96	20.90	114.00	99.00/M	95.00/M	ECE-A1AN470U
	100	33.0	0.25	130	6.3	11.2	2.5	0.5	P1155-ND	.84	6.27	46.06	265.00	255.00/M	245.00/M	ECE-A1AN101U
	100	33.0	0.25	130	6.3	11.2	2.5	0.5	P1370-ND	.84	3.54	25.25	141.00	131.00/M	126.00/M	ECE-A1AN101X
	220	69.0	0.25	200	8	11.5	3.5	0.6	P1156-ND	.66	4.59	32.75	183.00	170.00/M	164.00/M	ECE-A1AN221U
	330	102.0	0.25	280	10	16	5.0	0.6	P1157-ND	.81	5.66	41.60	239.00	230.00/M	221.00/M	ECE-A1AN331U
	470	144.0	0.25	340	10	16	5.0	0.6	P1158-ND	1.15	8.10	59.46	342.00	329.00/M	316.00/M	ECE-N1AN471U
	1000	303.0	0.25	470	12.5	20	5.0	0.6	P1159-ND	1.46	10.35	77.63	459.00	442.00/M	431.00/M	ECE-A1AN102X
	2200	663.0	0.25	690	16	25	7.5	0.8	P1160-ND	2.14	15.15	113.63	672.00	646.00/M	631.00/M	ECE-A1AN222U
	3300	993.0	0.25	1090	16	31.5	7.5	0.8	P1161-ND	2.68	19.19	144.80	941.00	912.00/M	891.00/M	ECE-A1AN332U
	4700	1413.0	0.25	1200	18	35.5	7.5	0.8	P1162-ND	3.75	26.77	202.00	1313.00	1273.00/M	1242.00/M	ECE-A1AN472U
16	10	7.8	0.20	40	5	11	2.0	0.5	P1163-ND	.37	2.38	16.78	92.00	79.00/M	76.00/M	ECE-A1CN100U
	22	13.5	0.20	60	5	11	2.0	0.5	P1164-ND	.40	2.57	18.15	99.00	86.00/M	83.00/M	ECE-A1CN220U
	33	18.8	0.20	80	5	11	2.0	0.5	P1165-ND	.39	2.70	19.25	108.00	100.00/M	96.00/M	ECE-A1CN330U
	47	25.5	0.20	100	6.3	11.2	2.5	0.5	P1166-ND	.49	3.43	24.50	137.00	127.00/M	123.00/M	ECE-A1CN470U
	100	51.0	0.20	180	8	11.5	3.5	0.6	P1167-ND	.66	4.55	32.50	182.00	169.00/M	163.00/M	ECE-A1CN101U
	220	108.6	0.20	260	10	12.5	5.0	0.6	P1168-ND	.81	5.66	41.60	239.00	230.00/M	221.00/M	ECE-A1CN221X
	330	161.4	0.20	330	10	16	5.0	0.6	P1169-ND	1.08	7.55	55.46	319.00	307.00/M	295.00/M	ECE-A1CN331U
	470	228.6	0.20	380	10	20	5.0	0.6	P1170-ND	1.36	9.60	72.00	426.00	410.00/M	400.00/M	ECE-A1CN471U
	1000	483.0	0.20	560	12.5	25	5.0	0.6	P1171-ND	1.92	13.62	102.15	604.00	581.00/M	568.00/M	ECE-A1CN102U
	2200	1059.0	0.20	750	16	31.5	7.5	0.8	P1172-ND	2.57	18.29	138.00	897.00	869.00/M	849.00/M	ECE-A1CN222U
	3300	1587.0	0.20	900	18	35.5	7.5	0.8	P1173-ND	3.75	26.77	202.00	1313.00	1273.00/M	1242.00/M	ECE-A1CN332U
25	3.3	5.4	0.15	20	5	11	2.0	0.5	P1174-ND	.37	2.38	16.78	92.00	79.00/M	76.00/M	ECE-A1EN3R3U
	4.7	6.5	0.15	25	5	11	2.0	0.5	P1175-ND	.37	2.38	16.78	92.00	79.00/M	76.00/M	ECE-A1EN4R7U
	10	10.5	0.15	45	5	11	2.0	0.5	P1176-ND	.40	2.57	18.15	99.00	86.00/M	83.00/M	ECE-A1EN100U
	22	19.5	0.15	60	5	11	2.0	0.5	P1177-ND	.47	2.96	20.90	114.00	99.00/M	95.00/M	ECE-A1EN220X
	33	27.7	0.15	90	6.3	11.2	2.5	0.5	P1178-ND	.50	3.54	25.25	141.00	131.00/M	126.00/M	ECE-A1EN330U
	47	38.2	0.15	110	6.3	11.2	2.5	0.5	P1179-ND	.64	4.41	31.50	176.00	164.00/M	158.00/M	ECE-A1EN470U
	100	78.0	0.15	180	8	11.5	3.5	0.6	P1180-ND	.77	5.38	39.48	227.00	218.00/M	210.00/M	ECE-A1EN101U
	220	168.0	0.15	320	10	16	5.0	0.6	P1181-ND	1.00	7.01	51.47	296.00	285.00/M	274.00/M	ECE-A1EN221U
	330	250.5	0.15	350	12.5	20	5.0	0.6	P1182-ND	1.25	8.85	66.38	392.00	378.00/M	369.00/M	ECE-A1EN331U
	470	355.5	0.15	430	12.5	20	5.0	0.6	P1183-ND	1.79	12.63	94.73	560.00	539.00/M	526.00/M	ECE-A1EN471U
	1000	753.0	0.15	680	16	25	7.5	0.8	P1184-ND	2.50	17.83	134.60	875.00	848.00/M	828.00/M	ECE-A1EN102U
	2200	1653.0	0.15	900	18	35.5	7.5	0.8	P1185-ND	3.87	27.64	208.60	1356.00	1314.00/M	1283.00/M	ECE-A1EN222U
35	4.7	7.9	0.15	30	5	11	2.0	0.5	P1186-ND	.40	2.57	18.15	99.00	86.00/M	83.00/M	ECE-A1VN4R7U
	10	13.5	0.15	43	5	11	2.0	0.5	P1187-ND	.47	2.96	20.90	114.00	99.00/M	95.00/M	ECE-A1VN100U
	22	26.1	0.15	80	6.3	11.2	2.5	0.5	P1188-ND	.51	3.54	25.25	141.00	131.00/M	126.00/M	ECE-A1VN220U
	33	37.6	0.15	100	8	11.5	3.5	0.6	P1189-ND	.66	4.59	32.75	183.00	170.00/M	164.00/M	ECE-A1VN330U
	47	52.3	0.15	120	8	11.5	3.5	0.6	P1190-ND	.77	5.38	39.48	227.00	218.00/M	210.00/M	ECE-A1VN470U
	100	108.0	0.15	230	10	16	5.0	0.6	P1191-ND	1.00	7.01	51.47	296.00	285.00/M	274.00/M	ECE-A1VN101U
	220	234.0	0.15	360	12.5	20	5.0	0.6	P1192-ND	1.28	9.09	68.18	403.00	388.00/M	379.00/M	ECE-A1VN221U
	330	349.5	0.15	450	12.5	20	5.0	0.6	P1193-ND	1.64	11.61	87.08	515.00	495.00/M	484.00/M	ECE-A1VN331U
	470	496.5	0.15	590	12.5	25	5.0	0.6	P1194-ND	2.06	14.71	111.00	722.00	699.00/M	683.00/M	ECE-A1VN471U
50	0.47	3.7	0.15	10	5	11	2.0	0.5	P1195-ND	.37	2.38	16.78	92.00	79.00/M	76.00/M	ECE-A1HNR47U
	1	4.5	0.15	10	5	11	2.0	0.5	P1196-ND	.37	2.38	16.78	92.00	79.00/M	76.00/M	ECE-A1HN010U
	2.2	6.3	0.15	18	5	11	2.0	0.5	P1197-ND	.40	2.57	18.15	99.00	86.00/M	83.00/M	ECE-A1HN2R2U
	3.3	7.9	0.15	25	5	11	2.0	0.5	P1198-ND	.43	2.69	18.98	104.00	90.00/M	86.00/M	ECE-A1HN3R3U
	4.7	10.0	0.15	30	5	11	2.0	0.5	P1199-ND	.44	2.81	19.80	108.00	94.00/M	90.00/M	ECE-A1HN4R7U
	10	18.0	0.15	50	6.3	11.2	2.5	0.5	P1280-ND	.50	3.54	25.25	141.00	131.00/M	126.00/M	ECE-A1HN100U
	22	36.0	0.15	90	8	11.5	3.5	0.6	P1281-ND	.67	4.73	33.75	189.00	176.00/M	169.00/M	ECE-A1HN220U
	33	52.5	0.15	110	8	11.5	3.5	0.6	P1282-ND	.77	5.38	39.48	227.00	218.00/M	210.00/M	ECE-A1HN330U
	47	73.5	0.15	140	10	12.5	5.0	0.6	P1283-ND	1.04	7.26	53.35	306.00	295.00/M	284.00/M	ECE-A1HN470U
	100	153.0	0.15	250	10	20	5.0	0.6	P1284-ND	1.32	9.33	69.98	414.00	398.00/M	389.00/M	ECE-A1HN101U
	220	333.0	0.15	360	12.5	25	5.0	0.6	P1285-ND	1.79	12.63	94.73	560.00	539.00/M	526.00/M	ECE-A1HN221U
	330	498.0	0.15	450	16	25	7.5	0.8	P1286-ND	2.06	14.71	111.00	722.00	699.00/M	683.00/M	ECE-A1HN331U
	470	708.0	0.15	590	16	31.5	7.5	0.8	P1287-ND	2.94	20.96	158.20	1028.00	997.00/M	973.00/M	ECE-A1HN471U

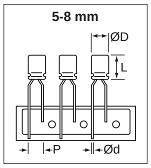
Panasonic® M Series Radial Lead Aluminum Electrolytic Capacitors

Ammo Box Packaging

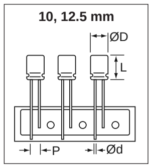
PANASONIC M SERIES CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG;
Marcon: DSM; **Rubycon:** YK; **Elna:** RE3;
Nitsuko: MK; **Sanyo:** HC/HPC

FEATURES: • Miniaturized size version for general purpose use • Life: 2000 hours at +85°C • Vent construction for ≥Ø6.3 mm products

5-8 mm



10, 12.5 mm



SPECIFICATIONS:

Operating Temperature Range	-40°C to +85°C	-25°C to +85°C
Rated Working Voltage Range	6.3 to 50 V DC	160 to 450 V DC
Nominal Capacitance Range	0.47 to 2200 µF	1 to 470 µF

Capacitance Tolerance: ±20% (120 Hz, +20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at +20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at +20°C.

tan δ: (at 120 Hz, +20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	0.16	0.18	0.18	0.20	0.20	0.20

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio max. at 120 Hz

W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
-25°C/+20°C	5	4	3	2	2	2	2	2	2	2	3	5	6	6
-40°C/+20°C	12	10	8	5	4	3	3	3	—	—	—	—	—	—

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/+20°C.
add 1.0 per every 1000 µF for -40°C/+20°C.

Ripple Current: 120 Hz, +85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	2000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	+85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 150% initial specified value

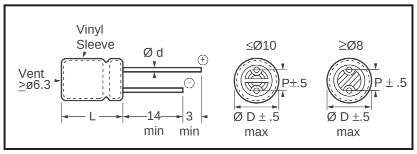
Shelf Life:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	+85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 150% initial specified value

WV (VDC)	Cap (µF)	Leakage Current (µA)	tan δ max.	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Panasonic Part No.
					ØD	L	P	Ød		500	1,000	2,000	
6.3	220	13.8	0.28	240	5	11	5.0	0.5	P10357TB-ND	—	—	48.00/M	ECA-0JM221B
	220	13.8	0.28	240	5	11	2.5	0.5	P10401TB-ND	—	—	48.00/M	ECA-0JM221I
	470	29.6	0.28	380	6.3	11.2	5.0	0.5	P10358TB-ND	—	—	69.00/M	ECA-0JM471B
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P10402TB-ND	—	—	69.00/M	ECA-0JM471I
	1000	63	0.28	580	8	11.5	5.0	0.6	P10359TB-ND	—	105.00	—	ECA-0JM102B
	1000	63	0.28	580	8	11.5	3.5	0.6	P10403TB-ND	—	105.00	—	ECA-0JM102BJ
	2200	138.6	0.3	890	10	16	5.0	0.6	P10360TB-ND	95.50	—	148.00/M	ECA-0JM222B
	3300	207.9	0.32	1020	10	20	5.0	0.6	P10361TB-ND	124.00	—	197.00/M	ECA-0JM332B
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P10362TB-ND	169.00	—	269.00/M	ECA-0JM472B
10	100	10	0.24	150	5	11	5.0	0.5	P10363TB-ND	—	—	40.00/M	ECA-1AM101B
	100	10	0.24	150	5	11	2.5	0.5	P10404TB-ND	—	—	40.00/M	ECA-1AM101I
	220	22	0.24	250	5	11	5.0	0.5	P10364TB-ND	—	—	56.00/M	ECA-1AM221B
	220	22	0.24	250	6.3	11.2	2.5	0.5	P10405TB-ND	—	—	56.00/M	ECA-1AM221I
	330	33	0.24	330	6.3	11.2	5.0	0.5	P10365TB-ND	—	—	69.00/M	ECA-1AM331B
	330	33	0.24	330	6.3	11.2	2.5	0.5	P10406TB-ND	—	—	69.00/M	ECA-1AM331I
	470	47	0.24	400	8	11.5	5.0	0.6	P10366TB-ND	—	83.00	—	ECA-1AM471B
	470	47	0.24	400	8	11.5	3.5	0.6	P10407TB-ND	—	83.00	—	ECA-1AM471BJ
	1000	100	0.24	630	10	12.5	5.0	0.6	P10367TB-ND	79.00	—	123.00/M	ECA-1AM102B
	2200	220	0.26	920	10	20	5.0	0.6	P10368TB-ND	115.50	—	184.00/M	ECA-1AM222B
16	100	16	0.2	180	5	11	5.0	0.5	P10369TB-ND	—	—	48.00/M	ECA-1CM101B
	100	16	0.2	180	5	11	2.5	0.5	P10408TB-ND	—	—	48.00/M	ECA-1CM101I
	220	35.2	0.2	280	6.3	11.2	5.0	0.5	P10370TB-ND	—	—	72.00/M	ECA-1CM221B
	220	35.2	0.2	280	6.3	11.2	2.5	0.5	P10409TB-ND	—	—	72.00/M	ECA-1CM221I
	330	52.8	0.3	350	8	11.5	5.0	0.6	P10371TB-ND	—	83.00	—	ECA-1CM331B
	330	52.8	0.3	350	8	11.5	3.5	0.6	P10410TB-ND	—	83.00	—	ECA-1CM331BJ
	470	75.2	0.2	440	8	11.5	5.0	0.6	P10372TB-ND	—	101.00	—	ECA-1CM471B
	470	75.2	0.2	440	8	11.5	3.5	0.6	P10411TB-ND	—	101.00	—	ECA-1CM471BJ
	1000	160	0.2	680	10	16	5.0	0.6	P10373TB-ND	108.00	—	168.00/M	ECA-1CM102B
	2200	352	0.22	1000	12.5	20	5.0	0.6	P10374TB-ND	169.00	—	269.00/M	ECA-1CM222B
25	47	11.7	0.16	130	5	11	5.0	0.5	P10375TB-ND	—	—	40.00/M	ECA-1EM470B
	47	11.7	0.16	130	5	11	2.5	0.5	P10412TB-ND	—	—	40.00/M	ECA-1EM470I
	100	25	0.16	180	6.3	11.2	5.0	0.5	P10376TB-ND	—	—	58.00/M	ECA-1EM101B
	100	25	0.16	180	6.3	11.2	2.5	0.5	P10413TB-ND	—	—	58.00/M	ECA-1EM101I
	220	55	0.16	310	8	11.5	5.0	0.6	P10377TB-ND	—	86.00	—	ECA-1EM221B
	220	55	0.16	310	8	11.5	3.5	0.6	P10414TB-ND	—	86.00	—	ECA-1EM221BJ
	330	82.5	0.16	390	8	11.5	5.0	0.6	P10378TB-ND	—	105.00	—	ECA-1EM331B
	330	82.5	0.16	390	8	11.5	3.5	0.6	P10415TB-ND	—	105.00	—	ECA-1EM331BJ
	470	117.5	0.16	480	10	12.5	5.0	0.6	P10379TB-ND	83.50	—	130.00/M	ECA-1EM471B
	1000	250	0.16	850	10	20	5.0	0.6	P10380TB-ND	127.50	—	203.00/M	ECA-1EM102B
35	33	11.5	0.14	110	5	11	5.0	0.5	P10381TB-ND	—	—	40.00/M	ECA-1VM330B
	33	11.5	0.14	110	5	11	2.5	0.5	P10416TB-ND	—	—	40.00/M	ECA-1VM330I
	47	16.4	0.14	130	5	11	5.0	0.5	P10382TB-ND	—	—	48.00/M	ECA-1VM470B
	47	16.4	0.14	130	5	11	2.5	0.5	P10417TB-ND	—	—	48.00/M	ECA-1VM470I
	100	35	0.14	210	6.3	11.2	5.0	0.5	P10383TB-ND	—	—	69.00/M	ECA-1VM101B
	100	35	0.14	210	6.3	11.2	2.5	0.5	P10418TB-ND	—	—	69.00/M	ECA-1VM101I
	220	77	0.14	350	8	11.5	5.0	0.6	P10384TB-ND	—	101.00	—	ECA-1VM221B
	220	77	0.14	350	8	11.5	3.5	0.6	P10419TB-ND	—	101.00	—	ECA-1VM221BJ
	330	115.5	0.14	440	10	12.5	5.0	0.6	P10385TB-ND	90.00	—	140.00/M	ECA-1VM331B
	470	164.5	0.14	550	10	16	5.0	0.6	P10386TB-ND	108.00	—	168.00/M	ECA-1VM471B
	1000	350	0.14	900	12.5	20	5.0	0.6	P10387TB-ND	229.50	—	365.00/M	ECA-1VM102B
50	0.47	3	0.12	5	5	11	5.0	0.5	P10388TB-ND	—	—	38.00/M	ECA-1HMR47B
	0.47	3	0.12	5	5	11	2.5	0.5	P10420TB-ND	—	—	38.00/M	ECA-1HMR47I
	1	3	0.12	10	5	11	5.0	0.5	P10389TB-ND	—	—	37.00/M	ECA-1HM010B
	1	3	0.12	10	5	11	2.5	0.5	P10421TB-ND	—	—	37.00/M	ECA-1HM010I
	2.2	3	0.12	20	5	11	5.0	0.5	P10390TB-ND	—	—	37.00/M	ECA-1HM2R2B
	2.2	3	0.12	20	5	11	2.5	0.5	P10422TB-ND	—	—	37.00/M	ECA-1HM2R2I
	3.3	3	0.12	35	5	11	5.0	0.5	P10391TB-ND	—	—	37.00/M	ECA-1HM3R3B
	3.3	3	0.12	35	5	11	2.5	0.5	P10423TB-ND	—	—	37.00/M	ECA-1HM3R3I
	4.7	3	0.12	45	5	11	5.0	0.5	P10392TB-ND	—	—	38.00/M	ECA-1HM4R7B
	4.7	3	0.12	45	5	11	2.5	0.5	P10424TB-ND	—	—	38.00/M	ECA-1HM4R7I
	10	5	0.12	65	5	11	5.0	0.5	P10393TB-ND	—	—	38.00/M	ECA-1HM100B
	10	5	0.12	65	5	11	2.5	0.5	P10425TB-ND	—	—	38.00/M	ECA-1HM100I
	22	11	0.12	100	5	11	5.0	0.5	P10394TB-ND	—	—	40.00/M	ECA-1HM220B
	22	11	0.12	100	5	11	2.5	0.5	P10426TB-ND	—	—	40.00/M	ECA-1HM220I
	33	16.5	0.12	110	5	11	5.0	0.5	P10395TB-ND	—	—	48.00/M	ECA-1HM330B
	33	16.5	0.12	110	5	11	2.5	0.5	P10427TB-ND	—	—	48.00/M	ECA-1HM330I
	47	23.5	0.12	130	6.3	11.2	5.0	0.5	P10396TB-ND	—	—	58.00/M	ECA-1HM470B
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P10428TB-ND	—	—	58.00/M	ECA-1HM470I
	100	50	0.12	250	8	11.5	5.0	0.6	P10397TB-ND	—	90.00	—	ECA-1HM101B
	100	50	0.12	250	8	11.5	3.5	0.6	P10429TB-ND	—	90.00	—	ECA-1HM101BJ
	220	11	0.12	400	10	12.5	5.0	0.6	P10398TB-ND	92.50	—	144.00/M	ECA-1HM221B
	330	165	0.12	500	10	16	5.0	0.6	P10399TB-ND	112.50	—	175.00/M	ECA-1HM331B
	470	235	0.12	650	10	20	5.0	0.6	P10400TB-ND	153.00	—	243.00/M	ECA-1HM471B

Panasonic® M Series Radial Lead Aluminum Electrolytic Capacitors

PANASONIC M SERIES
CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG;
Marcon: DSM; **Rubycon:** YK;
Elna: RE3; **Nitsuko:** MK;
Sanyo: HC/HPC



FEATURES:
- Miniaturized size version for general purpose use
- Life: 2000 hours at +85°C
- Vent construction for ≥ϕ6.3 mm products

SPECIFICATIONS:

Operating Temperature Range	-40°C to +85°C	-25°C to +85°C
Rated Working Voltage Range	6.3 to 100 V DC	160 to 450 V DC
Nominal Capacitance Range	0.33 to 22000 µF	1 to 470 µF

Capacitance Tolerance: ±20% (120 Hz, +20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at +20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at +20°C.

tan δ: (at 120 Hz, +20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	0.16	0.18	0.18	0.20	0.20	0.20

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio max. at 120 Hz

W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
-25°C/+20°C	5	4	3	2	2	2	2	2	2	2	3	5	6	6
-40°C/+20°C	12	10	8	5	4	3	3	3	—	—	—	—	—	—

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/+20°C.
add 1.0 per every 1000 µF for -40°C/+20°C.

Ripple Current: 120 Hz, +85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	2000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	+85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 150% initial specified value

Shelf Life:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	+85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 150% initial specified value

WV (VDC)	**Cap. (µF)**	**Leakage Current (µA)**	**tan δ max.**	**Ripple Current (mA) rms**	**Dimensions (mm)**				**Digi-Key Part No.**	**Pricing**						**Panasonic Part No.**
					øD	**L**	**P**	**ød**		**1**	**10**	**100**	**500**	**1,000**	**5,000**	
6.3	100	6.3	0.28	130	5	11	2.0	0.5	P5111-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-0JM101
	220	13.8	0.28	240	5	11	2.0	0.5	P5112-ND	.28	1.38	9.30	31.50	48.00	41.00/M	ECA-0JM221
	330	20.7	0.28	300	6.3	11.2	2.5	0.5	P5113-ND	.29	1.52	10.73	37.05	59.00	51.00/M	ECA-0JM331
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P5114-ND	.35	1.79	12.65	43.70	69.00	60.00/M	ECA-0JM471
	1000	63.0	0.28	580	8	11.5	3.5	0.6	P5115-ND	.41	2.45	17.50	63.00	98.00	91.00/M	ECA-0JM102
	2200	138.6	0.30	890	10	16	5.0	0.6	P5116-ND	.66	3.71	26.50	95.40	148.00	138.00/M	ECA-0JM222
	3300	207.9	0.32	1020	10	20	5.0	0.6	P5117-ND	.81	4.67	34.31	124.10	197.00	190.00/M	ECA-0JM332
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P5118-ND	1.13	6.37	46.77	169.15	269.00	259.00/M	ECA-0JM472
	6800	428.4	0.38	1270	12.5	25	5.0	0.6	P5119-ND	1.42	9.00	67.50	240.00	399.00	384.00/M	ECA-0JM682
	10000	630.0	0.46	1450	16	25	7.5	0.8	P5120-ND	2.03	11.58	86.85	308.80	513.00	494.00/M	ECA-0JM103
	15000	945.0	0.56	1700	16	31.5	7.5	0.8	P5121-ND	2.54	14.63	110.40	414.00	718.00	696.00/M	ECA-0JM153
	22000	1386.0	0.70	1900	18	35.5	7.5	0.8	P5122-ND	3.64	20.91	157.80	591.75	1026.00	994.00/M	ECA-0JM223
10	100	10.0	0.24	150	5	11	2.0	0.5	P5123-ND	.23	1.15	7.75	26.25	40.00	34.00/M	ECA-1AM101
	220	22.0	0.24	250	6.3	11.2	2.5	0.5	P5124-ND	.32	1.61	10.85	36.75	56.00	47.00/M	ECA-1AM221
	330	33.0	0.24	330	6.3	11.2	2.5	0.5	P5125-ND	.35	1.79	12.65	43.70	69.00	60.00/M	ECA-1AM331
	470	47.0	0.24	400	8	11.5	3.5	0.6	P5126-ND	.41	2.15	15.13	52.25	83.00	72.00/M	ECA-1AM471
	1000	100.0	0.24	630	10	12.5	5.0	0.6	P5127-ND	.52	3.08	22.00	79.20	123.00	114.00/M	ECA-1AM102
	2200	220.0	0.26	920	10	20	5.0	0.6	P5128-ND	.76	4.35	31.96	115.60	184.00	177.00/M	ECA-1AM222
	3300	330.0	0.28	1090	12.5	20	5.0	0.6	P5129-ND	1.08	6.75	49.59	179.35	285.00	274.00/M	ECA-1AM332
	4700	470.0	0.30	1200	12.5	25	5.0	0.6	P5130-ND	1.34	8.40	63.00	224.00	372.00	358.00/M	ECA-1AM472
	6800	680.0	0.34	1400	16	25	7.5	0.8	P5131-ND	1.88	10.74	80.55	286.40	476.00	458.00/M	ECA-1AM682
	10000	1000.0	0.42	1600	16	31.5	7.5	0.8	P5132-ND	2.27	13.52	102.00	382.50	663.00	643.00/M	ECA-1AM103
	15000	1500.0	0.52	1850	18	35.5	7.5	0.8	P5133-ND	3.50	20.14	152.00	570.00	988.00	958.00/M	ECA-1AM153
16	10	3.0	0.20	30	5	11	2.0	0.5	P5134-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1CM100
	22	3.5	0.20	75	5	11	2.0	0.5	P5135-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1CM220
	33	5.2	0.20	110	5	11	2.0	0.5	P5136-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1CM330
	47	7.5	0.20	130	5	11	2.0	0.5	P5137-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1CM470
	100	16.0	0.20	180	5	11	2.0	0.5	P5138-ND	.28	1.38	9.30	31.50	48.00	41.00/M	ECA-1CM101
	220	35.2	0.20	280	6.3	11.2	2.5	0.5	P5139-ND	.35	1.87	13.20	45.60	72.00	62.00/M	ECA-1CM221
	330	52.8	0.20	350	8	11.5	3.5	0.6	P5140-ND	.41	2.15	15.13	52.25	83.00	72.00/M	ECA-1CM331
	470	75.2	0.20	440	8	11.5	3.5	0.6	P5141-ND	.41	2.35	16.75	60.30	94.00	87.00/M	ECA-1CM471
	1000	160.0	0.20	680	10	16	5.0	0.6	P5142-ND	.65	4.20	30.00	108.00	168.00	156.00/M	ECA-1CM102
	2200	352.0	0.22	1000	12.5	20	5.0	0.6	P5143-ND	1.13	6.37	46.77	169.15	269.00	259.00/M	ECA-1CM222
	3300	528.0	0.24	1200	12.5	25	5.0	0.6	P5144-ND	1.45	8.28	62.10	220.80	367.00	353.00/M	ECA-1CM332
	4700	752.0	0.26	1360	16	25	7.5	0.8	P5145-ND	1.98	11.31	84.83	301.60	501.00	483.00/M	ECA-1CM472
	6800	1088.0	0.30	1600	16	31.5	7.5	0.8	P5146-ND	2.32	13.59	102.60	384.75	667.00	646.00/M	ECA-1CM682
	10000	1600.0	0.38	1800	18	35.5	7.5	0.8	P5147-ND	3.46	19.90	150.20	563.25	976.00	946.00/M	ECA-1CM103
25	10	3.0	0.16	50	5	11	2.0	0.5	P5148-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1EM100
	22	5.5	0.16	90	5	11	2.0	0.5	P5149-ND	.21	1.10	7.44	25.20	38.00	32.00/M	ECA-1EM220
	33	8.2	0.16	110	5	11	2.0	0.5	P5150-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1EM330
	47	11.7	0.16	130	5	11	2.0	0.5	P5151-ND	.23	1.15	7.75	26.25	40.00	34.00/M	ECA-1EM470
	100	25.0	0.16	180	6.3	11.2	2.5	0.5	P5152-ND	.32	1.66	11.16	37.80	58.00	49.00/M	ECA-1EM101
	220	55.0	0.16	310	8	11.5	3.5	0.6	P5153-ND	.41	2.22	15.68	54.15	86.00	74.00/M	ECA-1EM221
	330	82.5	0.16	390	8	11.5	3.5	0.6	P5154-ND	.41	2.45	17.50	63.00	98.00	91.00/M	ECA-1EM331
	470	117.5	0.16	480	10	12.5	5.0	0.6	P5155-ND	.55	3.26	23.25	83.70	130.00	121.00/M	ECA-1EM471
	1000	250.0	0.16	850	10	20	5.0	0.6	P5156-ND	.80	4.80	35.25	127.50	203.00	195.00/M	ECA-1EM102
	2200	550.0	0.18	1200	12.5	25	5.0	0.6	P5157-ND	1.38	7.86	58.95	209.60	348.00	335.00/M	ECA-1EM222
	3300	825.0	0.20	1300	16	25	7.5	0.8	P5158-ND	1.95	12.00	90.00	320.00	532.00	512.00/M	ECA-1EM332
	4700	1175.0	0.22	1500	16	31.5	7.5	0.8	P5159-ND	2.46	14.42	108.80	408.00	707.00	685.00/M	ECA-1EM472
	6800	1700.0	0.26	1750	18	35.5	7.5	0.8	P5160-ND	3.62	20.80	157.00	588.75	1021.00	989.00/M	ECA-1EM682

(Continued)

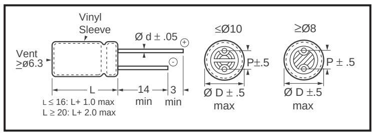
Panasonic M Series Radial Lead Aluminum Electrolytic Capacitors *(Cont.)*

WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ max.	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	10	100	500	1,000	5,000	
35	10	3.5	0.14	60	5	11	2.0	0.5	P5161-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1VM100
	22	7.7	0.14	95	5	11	2.0	0.5	P5162-ND	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1VM220
	33	11.5	0.14	110	5	11	2.0	0.5	P5163-ND	.23	1.15	7.75	26.25	40.00	34.00/M	ECA-1VM330
	47	16.4	0.14	130	5	11	2.0	0.5	P5164-ND	.28	1.38	9.30	31.50	48.00	41.00/M	ECA-1VM470
	100	35.0	0.14	210	6.3	11.2	2.5	0.5	P5165-ND	.35	1.79	12.65	43.70	69.00	60.00/M	ECA-1VM101
	220	77.0	0.14	350	8	11.5	3.5	0.6	P5166-ND	.41	2.35	16.75	60.30	94.00	87.00/M	ECA-1VM221
	330	115.5	0.14	440	10	12.5	5.0	0.6	P5167-ND	.55	3.50	25.00	90.00	140.00	130.00/M	ECA-1VM331
	470	164.5	0.14	550	10	16	5.0	0.6	P5168-ND	.68	4.20	30.00	108.00	168.00	156.00/M	ECA-1VM471
	1000	350.0	0.14	900	12.5	20	5.0	0.6	P5169-ND	1.25	8.64	63.45	229.50	365.00	351.00/M	ECA-1VM102
	2200	770.0	0.16	1250	16	25	7.5	0.8	P5170-ND	2.05	13.50	101.25	360.00	599.00	576.00/M	ECA-1VM222
	3300	1155.0	0.18	1400	16	31.5	7.5	0.8	P5171-ND	2.51	16.96	128.00	480.00	832.00	806.00/M	ECA-1VM332
	4700	1645.0	0.20	1600	18	35.5	7.5	0.8	P5172-ND	3.76	22.84	172.40	646.50	1121.00	1086.00/M	ECA-1VM472
50	0.33	3.0	0.12	4.4	5	11	2.0	0.5	P5349-ND*	.21	1.33	8.99	30.45	46.00	39.00/M	ECA-1HMR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5173-ND*	.21	1.10	7.44	25.20	38.00	32.00/M	ECA-1HMR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5174-ND*	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1HM010
	2.2	3.0	0.12	20	5	11	2.0	0.5	P5175-ND*	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1HM2R2
	3.3	3.0	0.12	35	5	11	2.0	0.5	P5176-ND*	.21	1.06	7.13	24.15	37.00	31.00/M	ECA-1HM3R3
	4.7	3.0	0.12	45	5	11	2.0	0.5	P5177-ND*	.21	1.10	7.44	25.20	38.00	32.00/M	ECA-1HM4R7
	10	5.0	0.12	65	5	11	2.0	0.5	P5178-ND*	.21	1.10	7.44	25.20	38.00	32.00/M	ECA-1HM100
	22	11.0	0.12	100	5	11	2.0	0.5	P5179-ND*	.23	1.15	7.75	26.25	40.00	34.00/M	ECA-1HM220
	33	16.5	0.12	110	5	11	2.0	0.5	P5180-ND*	.28	1.38	9.30	31.50	48.00	41.00/M	ECA-1HM330
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P5181-ND*	.34	1.66	11.16	37.80	58.00	49.00/M	ECA-1HM470
	100	50.0	0.12	250	8	11.5	3.5	0.6	P5182-ND*	.41	2.34	16.50	57.00	90.00	78.00/M	ECA-1HM101
	220	110.0	0.12	400	10	12.5	5.0	0.6	P5183-ND*	.55	3.61	25.75	92.70	144.00	134.00/M	ECA-1HM221
	330	165.0	0.12	500	10	16	5.0	0.6	P5184-ND*	.67	4.00	29.38	106.25	169.00	163.00/M	ECA-1HM331
	470	235.0	0.12	650	10	20	5.0	0.6	P5185-ND*	.86	5.76	42.30	153.00	243.00	234.00/M	ECA-1HM471
	1000	500.0	0.12	1050	12.5	25	5.0	0.6	P5186-ND*	1.52	9.00	67.50	240.00	399.00	384.00/M	ECA-1HM102
	2200	1100.0	0.14	1300	16	31.5	7.5	0.8	P5187-ND*	2.51	14.68	110.80	415.50	720.00	698.00/M	ECA-1HM222
	3300	1650.0	0.16	1500	18	35.5	7.5	0.8	P5188-ND*	3.96	23.19	175.00	656.25	1138.00	1103.00/M	ECA-1HM332
63	10	6.3	0.11	70	5	11	2.0	0.5	P5189-ND	.24	1.20	8.06	27.30	42.00	35.00/M	ECA-1JM100
	22	13.8	0.11	105	5	11	2.0	0.5	P5190-ND	.28	1.38	9.30	31.50	48.00	41.00/M	ECA-1JM220
	33	20.7	0.11	130	6.3	11.2	2.5	0.5	P5191-ND	.28	1.48	10.45	36.10	57.00	49.00/M	ECA-1JM330
	47	29.6	0.11	160	6.3	11.2	2.5	0.5	P5192-ND	.37	1.95	13.75	47.50	75.00	65.00/M	ECA-1JM470
	100	63.0	0.11	270	8	11.5	3.5	0.6	P5193-ND	.43	2.45	17.50	63.00	98.00	91.00/M	ECA-1JM101
	220	138.6	0.11	450	10	16	5.0	0.6	P5194-ND	.65	3.74	27.50	99.45	158.00	152.00/M	ECA-1JM221
	330	207.9	0.11	550	10	20	5.0	0.6	P5195-ND	.86	4.93	36.19	130.90	208.00	200.00/M	ECA-1JM331
	470	296.1	0.11	750	12.5	20	5.0	0.6	P5196-ND	1.22	6.99	52.43	186.40	310.00	298.00/M	ECA-1JM471
	1000	630.0	0.11	1100	16	25	7.5	0.8	P5197-ND	2.26	13.35	100.13	356.00	592.00	570.00/M	ECA-1JM102
	2200	1386.0	0.13	1400	18	35.5	7.5	0.8	P5198-ND	3.94	23.03	173.80	651.75	1130.00	1095.00/M	ECA-1JM222
100	0.47	3.0	0.10	10	5	11	2.0	0.5	P5199-ND	.24	1.20	8.06	27.30	42.00	35.00/M	ECA-2AMR47
	1.0	3.0	0.10	20	5	11	2.0	0.5	P5305-ND	.24	1.20	8.06	27.30	42.00	35.00/M	ECA-2AM010
	2.2	3.0	0.10	30	5	11	2.0	0.5	P5306-ND	.25	1.24	8.37	28.35	43.00	36.00/M	ECA-2AM2R2
	3.3	3.3	0.10	40	5	11	2.0	0.5	P5307-ND	.25	1.24	8.37	28.35	43.00	36.00/M	ECA-2AM3R3
	4.7	4.7	0.10	50	5	11	2.0	0.5	P5308-ND	.25	1.24	8.37	28.35	43.00	36.00/M	ECA-2AM4R7
	10	10.0	0.10	70	5	11	2.0	0.5	P5309-ND	.35	1.75	11.78	39.90	61.00	51.00/M	ECA-2AM100
	22	22.0	0.10	115	6.3	11.2	2.5	0.5	P5310-ND	.40	2.07	14.58	50.35	80.00	69.00/M	ECA-2AM220
	33	33.0	0.10	145	8	11.5	3.5	0.6	P5311-ND	.49	2.61	18.43	63.65	101.00	87.00/M	ECA-2AM330
	47	47.0	0.10	180	8	11.5	3.5	0.6	P5312-ND	.50	2.98	21.25	76.50	119.00	111.00/M	ECA-2AM470
	100	100.0	0.10	350	10	16	5.0	0.6	P5313-ND	.80	4.77	35.02	126.65	201.00	194.00/M	ECA-2AM101
	220	220.0	0.10	550	12.5	20	5.0	0.6	P5314-ND	1.35	7.83	58.73	208.80	347.00	334.00/M	ECA-2AM221
	330	330.0	0.10	700	12.5	25	5.0	0.6	P5315-ND	1.85	10.71	80.33	285.60	475.00	457.00/M	ECA-2AM331
	470	470.0	0.10	900	16	25	7.5	0.8	P5316-ND	2.41	14.05	106.00	397.50	689.00	668.00/M	ECA-2AM471
	1000	1000.0	0.10	1300	18	35.5	7.5	0.8	P5317-ND	4.56	27.80	209.80	786.75	1364.00	1322.00/M	ECA-2AM102
160	1.0	19.6	0.16	36	6.3	11.2	2.5	0.5	P5318-ND	.44	1.91	13.48	46.55	74.00	64.00/M	ECA-2CM010
	2.2	31.1	0.16	53	6.3	11.2	2.5	0.5	P5319-ND	.46	1.91	13.48	46.55	74.00	64.00/M	ECA-2CM2R2
	3.3	41.6	0.16	66	6.3	11.2	2.5	0.5	P5320-ND	.40	1.72	12.25	44.10	69.00	64.00/M	ECA-2CM3R3
	4.7	55.1	0.16	78	6.3	11.2	2.5	0.5	P5321-ND	.43	1.72	12.25	44.10	69.00	64.00/M	ECA-2CM4R7
	10	103.0	0.16	105	10	12.5	5.0	0.6	P5322-ND	.57	3.12	22.25	80.10	125.00	116.00/M	ECA-2CM100
	22	221.0	0.16	175	10	16	5.0	0.6	P5323-ND	.72	3.62	26.56	96.05	153.00	147.00/M	ECA-2CM220
	33	326.0	0.16	235	10	20	5.0	0.6	P5324-ND	1.03	4.61	33.84	122.40	194.00	187.00/M	ECA-2CM330
	47	461.0	0.16	320	12.5	20	5.0	0.6	P5325-ND	1.34	6.51	48.83	173.60	289.00	278.00/M	ECA-2CM470
	100	970.0	0.16	515	12.5	25	5.0	0.6	P5326-ND	2.00	9.90	74.25	264.00	439.00	422.00/M	ECA-2CM101
	220	2122.0	0.16	830	16	31.5	7.5	0.8	P5327-ND	2.92	15.77	119.00	446.25	774.00	750.00/M	ECA-2CM221
	330	3178.0	0.16	1090	18	31.5	7.5	0.8	P5328-ND	4.07	24.54	185.20	694.50	1204.00	1167.00/M	ECA-2CM331
	470	4522.0	0.16	1440	18	40	7.5	0.8	P5329-ND	5.24	30.69	231.60	868.50	1505.00	1459.00/M	ECA-2CM471
250	1.0	25.0	0.18	34	6.3	11.2	2.5	0.5	P5330-ND	.40	1.72	12.25	44.10	69.00	64.00/M	ECA-2EM010
	2.2	43.0	0.18	50	6.3	11.2	2.5	0.5	P5331-ND	.41	1.72	12.25	44.10	69.00	64.00/M	ECA-2EM2R2
	3.3	59.5	0.18	72	8	11.5	3.5	0.6	P5332-ND	.51	2.56	18.25	65.70	102.00	95.00/M	ECA-2EM3R3
	4.7	80.5	0.18	86	8	11.5	3.5	0.6	P5333-ND	.59	2.56	18.25	65.70	102.00	95.00/M	ECA-2EM4R7
	10	160.0	0.18	110	10	16	5.0	0.6	P5334-ND	.71	3.62	26.56	96.05	153.00	147.00/M	ECA-2EM100
	22	340.0	0.18	180	10	20	5.0	0.6	P5335-ND	1.14	4.74	34.78	125.80	200.00	192.00/M	ECA-2EM220
	33	505.0	0.18	250	12.5	20	5.0	0.6	P5336-ND	1.39	6.66	49.95	177.60	295.00	284.00/M	ECA-2EM330
	47	715.0	0.18	350	12.5	25	5.0	0.6	P5337-ND	2.01	10.17	76.28	271.20	451.00	434.00/M	ECA-2EM470
	100	1510.0	0.18	530	16	31.5	7.5	0.8	P5338-ND	3.01	15.18	114.60	429.75	745.00	722.00/M	ECA-2EM101
	220	3310.0	0.18	930	18	40	7.5	0.8	P5339-ND	5.26	30.85	232.80	873.00	1513.00	1467.00/M	ECA-2EM221
450	1.0	37.0	0.20	37	8	11.5	3.5	0.6	P5340-ND	.62	2.73	19.50	70.20	109.00	101.00/M	ECA-2WM010
	2.2	69.4	0.20	44	10	12.5	5.0	0.6	P5341-ND	.69	3.54	25.25	90.90	141.00	131.00/M	ECA-2WM2R2
	3.3	99.1	0.20	60	10	16	5.0	0.6	P5342-ND	.83	3.90	28.67	103.70	165.00	159.00/M	ECA-2WM3R3
	4.7	136.0	0.20	79	10	20	5.0	0.6	P5343-ND	1.19	4.90	35.96	130.05	207.00	199.00/M	ECA-2WM4R7
	10	280.0	0.20	130	12.5	20	5.0	0.6	P5344-ND	1.62	7.50	56.25	200.00	333.00	320.00/M	ECA-2WM100
	22	604.0	0.20	210	16	25	7.5	0.8	P5345-ND	2.19	11.42	86.20	323.25	560.00	543.00/M	ECA-2WM220
	33	901.0	0.20	285	16	31.5	7.5	0.8	P5346-ND	2.95	16.35	123.40	462.75	802.00	777.00/M	ECA-2WM330

*** M-KIT-ND** ***Digi-Key® M Series Capacitors Kit*** 10 each of values denoted. 170 total pieces. Included notebook style storage case and bin storage guide……………………**$69.95**

Panasonic® NHG Series Radial Lead Aluminum Electrolytic Capacitors

Panasonic NHG Series Cross References:
Nippon Chemicon: KMG; **Nichicon:** VZ;
Elna: RJ4; **Rubycon:** YXA



FEATURES:

- Compact size (same case size with series M)
- Life: 1000 ~ 2000 hours at +105°C

SPECIFICATIONS:

Operating Temperature Range	-55°C to +105°C	-25°C to +105°C
Rated Working Voltage Range	6.3 to 100 VDC	160 to 450 VDC
Nominal Capacitance Range	0.1 to 22000 µF	1.0 to 330 µF

Capacitance Tolerance: ±20% (120 Hz, +20°C)

Leakage Current	I ≤ 0.01 CV µA or 3µA, whichever is greater after 2 minutes application of rated working voltage at +20°C.	I ≤ 0.06 CV + 10µA after 2 minutes application of rated working voltage at +20°C.

tan δ: (at 120 Hz, +20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ max.	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.15	0.24

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Ripple Current: 120 Hz, +105°C

W.V. (V.DC)	**Cap (µF)**	**Frequency (Hz)**				
		60	**120**	**1k**	**10k**	**100k**
6.3 ~ 100	**~ 33**	0.75	1	1.55	1.80	2.00
	47 ~ 470	0.80	1	1.35	1.50	1.50
	1000 ~	0.85	1	1.10	1.15	1.15
160 ~ 450	**1.0 ~ 330**	0.80	1	1.35	1.50	1.50

Endurance:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	2000 Hours*	**Leakage Current**	≤ initial specified value
Ambient Temperature	+105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 200% initial specified value

* 1000 Hours for ≤ Ø8mm products.

Shelf Life:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	+105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 200% initial specified value

WV (VDC)	**Cap. µF**	**D.C.L. (+20°C) (µA) max.**	**tan δ max.**	**Ripple Current (mA) rms**	**Dimensions (mm)**				**Digi-Key Part No.**	**Pricing**						**Panasonic Part No.**
					øD	**L**	**P**	**ød**		**1**	**10**	**100**	**500**	**1,000**	**5,000**	
6.3	100	6.3	0.28	91	5	11	2.0	0.5	P5505-ND	.33	1.56	10.54	35.70	54.00	46.00/M	ECA-0JHG101
	220	13.8	0.28	140	5	11	2.0	0.5	P5506-ND	.32	1.60	11.28	38.95	62.00	53.00/M	ECA-0JHG221
	330	20.7	0.28	190	6.3	11.2	2.5	0.5	P5507-ND	.40	2.07	14.58	50.35	80.00	69.00/M	ECA-0JHG331
	470	29.6	0.28	230	6.3	11.2	2.5	0.5	P5508-ND	.40	2.31	16.50	59.40	92.00	86.00/M	ECA-0JHG471
	1000	63.0	0.28	380	8	11.5	3.5	0.6	P5509-ND	.57	3.36	24.00	86.40	134.00	125.00/M	ECA-0JHG102
	2200	138.6	0.30	710	10	16	5.0	0.6	P5510-ND	.83	4.67	34.31	124.10	197.00	190.00/M	ECA-0JHG222
	3300	207.9	0.32	840	10	20	5.0	0.6	P5511-ND	1.13	6.43	47.24	170.85	271.00	261.00/M	ECA-0JHG332
	4700	296.1	0.34	1090	12.5	20	5.0	0.6	P5512-ND	1.28	7.35	55.13	196.00	326.00	314.00/M	ECA-0JHG472
	6800	428.4	0.38	1350	12.5	25	5.0	0.6	P5513-ND	1.74	9.93	74.48	264.80	440.00	424.00/M	ECA-0JHG682
	10000	630.0	0.46	1650	16	25	7.5	0.8	P5514-ND	2.18	12.56	94.80	355.50	616.00	597.00/M	ECA-0JHG103
	15000	945.0	0.56	2010	16	31.5	7.5	0.8	P5515-ND	3.12	17.99	135.80	509.25	883.00	856.00/M	ECA-0JHG153
	22000	1386.0	0.70	2350	18	35.5	7.5	0.8	P5516-ND	4.47	25.71	194.00	727.50	1261.00	1222.00/M	ECA-0JHG223
10	100	10.0	0.24	110	5	11	2.0	0.5	P5517-ND	.28	1.44	10.18	35.15	56.00	48.00/M	ECA-1AHG101
	220	22.0	0.24	170	6.3	11.2	2.5	0.5	P5518-ND	.36	1.87	13.20	45.60	72.00	62.00/M	ECA-1AHG221
	330	33.0	0.24	200	6.3	11.2	2.5	0.5	P5519-ND	.40	2.21	15.75	56.70	88.00	82.00/M	ECA-1AHG331
	470	47.0	0.24	250	8	11.5	3.5	0.6	P5520-ND	.48	2.80	20.00	72.00	112.00	104.00/M	ECA-1AHG471
	1000	100.0	0.24	460	10	12.5	5.0	0.6	P5521-ND	.66	4.48	32.90	119.00	189.00	182.00/M	ECA-1AHG102
	2200	220.0	0.26	760	10	20	5.0	0.6	P5522-ND	1.06	5.95	43.71	158.10	251.00	242.00/M	ECA-1AHG222
	3300	330.0	0.28	1000	12.5	20	5.0	0.6	P5523-ND	1.22	7.26	54.45	193.60	322.00	310.00/M	ECA-1AHG332
	4700	470.0	0.30	1260	12.5	25	5.0	0.6	P5524-ND	1.66	9.75	73.13	260.00	432.00	416.00/M	ECA-1AHG472
	6800	680.0	0.34	1570	16	25	7.5	0.8	P5525-ND	2.32	13.20	99.00	352.00	585.00	563.00/M	ECA-1AHG682
	10000	1000.0	0.42	1890	16	31.5	7.5	0.8	P5526-ND	2.78	16.01	120.80	453.00	785.00	761.00/M	ECA-1AHG103
	15000	1500.0	0.52	2180	18	35.5	7.5	0.8	P5527-ND	4.30	24.75	186.80	700.50	1214.00	1177.00/M	ECA-1AHG153
16	47	7.5	0.20	77	5	11	2.0	0.5	P5528-ND	.33	1.56	10.54	35.70	54.00	46.00/M	ECA-1CHG470
	100	16.0	0.20	110	5	11	2.0	0.5	P5529-ND	.32	1.60	11.28	38.95	62.00	53.00/M	ECA-1CHG101
	220	35.2	0.20	180	6.3	11.2	2.5	0.5	P5530-ND	.40	2.21	15.75	56.70	88.00	82.00/M	ECA-1CHG221
	330	52.8	0.20	260	8	11.5	3.5	0.6	P5531-ND	.48	2.63	18.75	67.50	105.00	98.00/M	ECA-1CHG331
	470	75.2	0.20	310	8	11.5	3.5	0.6	P5532-ND	.58	3.26	23.25	83.70	130.00	121.00/M	ECA-1CHG471
	1000	160.0	0.20	560	10	16	5.0	0.6	P5533-ND	.82	4.61	33.84	122.40	194.00	187.00/M	ECA-1CHG102
	2200	352.0	0.22	920	12.5	20	5.0	0.6	P5534-ND	1.28	7.35	55.13	196.00	326.00	314.00/M	ECA-1CHG222
	3300	528.0	0.24	1170	12.5	25	5.0	0.6	P5535-ND	1.78	10.14	76.05	270.40	450.00	433.00/M	ECA-1CHG332
	4700	752.0	0.26	1480	16	25	7.5	0.8	P5536-ND	2.13	12.27	92.60	347.25	602.00	583.00/M	ECA-1CHG472
	6800	1088.0	0.30	1780	16	31.5	7.5	0.8	P5537-ND	2.90	17.33	130.80	490.50	850.00	824.00/M	ECA-1CHG682
	10000	1600.0	0.38	2060	18	35.5	7.5	0.8	P5538-ND	4.25	24.46	184.60	692.25	1200.00	1163.00/M	ECA-1CHG103
25	47	11.7	0.16	91	5	11	2.0	0.5	P5539-ND	.28	1.44	10.18	35.15	56.00	48.00/M	ECA-1EHG470
	100	25.0	0.16	130	6.3	11.2	2.5	0.5	P5540-ND	.36	1.95	13.75	47.50	75.00	65.00/M	ECA-1EHG101
	220	55.0	0.16	230	8	11.5	3.5	0.6	P5541-ND	.48	2.80	20.00	72.00	112.00	104.00/M	ECA-1EHG221
	330	82.5	0.16	310	8	11.5	3.5	0.6	P5542-ND	.58	3.26	23.25	83.70	130.00	121.00/M	ECA-1EHG331
	470	117.5	0.16	380	10	12.5	5.0	0.6	P5543-ND	.70	4.16	30.55	110.50	176.00	169.00/M	ECA-1EHG471
	1000	250.0	0.16	680	10	20	5.0	0.6	P5544-ND	1.12	6.37	46.77	169.15	269.00	259.00/M	ECA-1EHG102
	2200	550.0	0.18	1090	12.5	25	5.0	0.6	P5545-ND	1.69	10.02	75.15	267.20	444.00	428.00/M	ECA-1EHG222
	3300	825.0	0.20	1400	16	25	7.5	0.8	P5546-ND	2.10	12.53	94.60	354.75	615.00	596.00/M	ECA-1EHG332
	4700	1175.0	0.22	1750	16	31.5	7.5	0.8	P5547-ND	3.08	20.67	156.00	585.00	1014.00	983.00/M	ECA-1EHG472
	6800	1700.0	0.26	2040	18	35.5	7.5	0.8	P5548-ND	4.44	25.57	193.00	723.75	1255.00	1216.00/M	ECA-1EHG682
35	33	11.5	0.14	75	5	11	2.0	0.5	P5549-ND	.28	1.44	10.18	35.15	56.00	48.00/M	ECA-1VHG330
	47	16.4	0.14	90	5	11	2.0	0.5	P5550-ND	.32	1.60	11.28	38.95	62.00	53.00/M	ECA-1VHG470
	100	35.0	0.14	150	6.3	11.2	2.5	0.5	P5551-ND	.40	2.21	15.75	56.70	88.00	82.00/M	ECA-1VHG101
	220	77.0	0.14	270	8	11.5	3.5	0.6	P5552-ND	.58	3.26	23.25	83.70	130.00	121.00/M	ECA-1VHG221
	330	115.5	0.14	350	10	12.5	5.0	0.6	P5553-ND	.70	3.94	28.91	104.55	166.00	160.00/M	ECA-1VHG331
	470	164.5	0.14	460	10	16	5.0	0.6	P5554-ND	.86	5.44	39.95	144.50	230.00	221.00/M	ECA-1VHG471
	1000	350.0	0.14	810	12.5	20	5.0	0.6	P5555-ND	1.42	8.10	60.75	216.00	359.00	346.00/M	ECA-1VHG102
	2200	770.0	0.16	1260	16	25	7.5	0.8	P5556-ND	2.20	12.67	95.60	358.50	621.00	602.00/M	ECA-1VHG222
	3300	1155.0	0.18	1610	16	31.5	7.5	0.8	P5557-ND	3.13	18.02	136.00	510.00	884.00	857.00/M	ECA-1VHG332
	4700	1645.0	0.20	1910	18	35.5	7.5	0.8	P5558-ND	4.70	27.06	204.20	765.75	1327.00	1286.00/M	ECA-1VHG472
50	0.1	3.0	0.12	1.1	5	11	2.0	0.5	P5559-ND*	.32	1.52	10.23	34.65	53.00	45.00/M	ECA-1HHG0R1
	0.22	3.0	0.12	2.3	5	11	2.0	0.5	P5560-ND*	.32	1.52	10.23	34.65	53.00	45.00/M	ECA-1HHGR22
	0.33	3.0	0.12	3.5	5	11	2.0	0.5	P5561-ND*	.32	1.52	10.23	34.65	53.00	45.00/M	ECA-1HHGR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5562-ND*	.32	1.52	10.23	34.65	53.00	45.00/M	ECA-1HHGR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5563-ND*	.32	1.52	10.23	34.65	53.00	45.00/M	ECA-1HHG010
	2.2	3.0	0.12	18	5	11	2.0	0.5	P5564-ND*	.32	1.52	10.23	34.65	53.00	45.00/M	ECA-1HHG2R2
	3.3	3.0	0.12	22	5	11	2.0	0.5	P5565-ND*	.32	1.52	10.23	34.65	53.00	45.00/M	ECA-1HHG3R3
	4.7	3.0	0.12	26	5	11	2.0	0.5	P5566-ND*	.32	1.52	10.23	34.65	53.00	45.00/M	ECA-1HHG4R7
	10	5.0	0.12	39	5	11	2.0	0.5	P5567-ND*	.33	1.66	11.16	37.80	58.00	49.00/M	ECA-1HHG100
	22	11.0	0.12	65	5	11	2.0	0.5	P5568-ND*	.28	1.48	10.45	36.10	57.00	49.00/M	ECA-1HHG220
	33	16.5	0.12	90	5	11	2.0	0.5	P5569-ND*	.32	1.60	11.28	38.95	62.00	53.00/M	ECA-1HHG330
	47	23.5	0.12	110	6.3	11.2	2.5	0.5	P5570-ND*	.37	1.95	13.75	47.50	75.00	65.00/M	ECA-1HHG470
	100	50.0	0.12	180	8	11.5	3.5	0.6	P5571-ND*	.48	2.63	18.75	67.50	105.00	98.00/M	ECA-1HHG101
	220	110.0	0.12	330	10	12.5	5.0	0.6	P5572-ND*	.70	4.10	30.08	108.80	173.00	166.00/M	ECA-1HHG221
	330	165.0	0.12	410	10	16	5.0	0.6	P5573-ND*	.93	5.76	42.30	153.00	243.00	234.00/M	ECA-1HHG331
	470	235.0	0.12	530	10	20	5.0	0.6	P5574-ND*	1.20	8.00	58.75	212.50	338.00	325.00/M	ECA-1HHG471
	1000	500.0	0.12	950	12.5	25	5.0	0.6	P5575-ND*	1.87	12.00	90.00	320.00	532.00	512.00/M	ECA-1HHG102
	2200	1100.0	0.14	1470	16	31.5	7.5	0.8	P5576-ND*	3.13	22.26	168.00	630.00	1092.00	1058.00/M	ECA-1HHG222
	3300	1650.0	0.16	1770	18	35.5	7.5	0.8	P5577-ND	4.81	28.67	216.40	811.50	1407.00	1363.00/M	ECA-1HHG332

(Continued)

Panasonic® NHG Series Radial Lead Aluminum Electrolytic Capacitors *(Cont.)*

WV (VDC)	Cap. µF	D.C.L. (±20°C) (µA) max.	tan δ max.	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	10	100	500	1,000	5,000	
63	10	6.3	0.10	46	5	11	2.0	0.5	P5578-ND	.30	1.52	10.73	37.05	59.00	51.00/M	ECA-1JHG100
	22	13.8	0.10	71	5	11	2.0	0.5	P5579-ND	.32	1.60	11.28	38.95	62.00	53.00/M	ECA-1JHG220
	33	20.7	0.10	100	6.3	11.2	2.5	0.5	P5580-ND	.40	2.07	14.58	50.35	80.00	69.00/M	ECA-1JHG330
	47	29.6	0.10	120	6.3	11.2	2.5	0.5	P5581-ND	.43	2.42	17.25	62.10	97.00	90.00/M	ECA-1JHG470
	100	63.0	0.10	215	10	12.5	5.0	0.6	P5582-ND	.61	4.06	29.00	104.40	162.00	151.00/M	ECA-1JHG101
	220	138.6	0.10	335	10	16	5.0	0.6	P5583-ND	.92	5.15	37.84	136.85	217.00	209.00/M	ECA-1JHG221
	330	207.9	0.10	510	10	20	5.0	0.6	P5584-ND	1.21	6.82	50.06	181.05	288.00	277.00/M	ECA-1JHG331
	470	296.1	0.10	640	12.5	20	5.0	0.6	P5585-ND	1.50	8.58	64.35	228.80	380.00	366.00/M	ECA-1JHG471
	1000	630.0	0.10	930	16	25	7.5	0.8	P5586-ND	2.43	13.97	105.40	395.25	685.00	664.00/M	ECA-1JHG102
	2200	1386.0	0.12	1610	18	35.5	7.5	0.8	P5587-ND	4.92	28.30	213.60	801.00	1388.00	1346.00/M	ECA-1JHG222
100	0.47	3.0	0.08	9	5	11	2.0	0.5	P5588-ND	.29	1.48	10.45	36.10	57.00	49.00/M	ECA-2AHGR47
	1.0	3.0	0.08	14	5	11	2.0	0.5	P5589-ND	.29	1.48	10.45	36.10	57.00	49.00/M	ECA-2AHG010
	2.2	3.0	0.08	21	5	11	2.0	0.5	P5590-ND	.30	1.56	11.00	38.00	60.00	52.00/M	ECA-2AHG2R2
	3.3	3.3	0.08	31	5	11	2.0	0.5	P5591-ND	.30	1.56	11.00	38.00	60.00	52.00/M	ECA-2AHG3R3
	4.7	4.7	0.08	38	5	11	2.0	0.5	P5592-ND	.30	1.56	11.00	38.00	60.00	52.00/M	ECA-2AHG4R7
	10	10.0	0.08	54	6.3	11.2	2.5	0.5	P5593-ND	.40	2.11	14.85	51.30	81.00	70.00/M	ECA-2AHG100
	22	22.0	0.08	93	6.3	11.2	2.5	0.5	P5594-ND	.46	2.56	18.25	65.70	102.00	95.00/M	ECA-2AHG220
	33	33.0	0.08	130	8	11.5	3.5	0.6	P5595-ND	.57	3.22	23.00	82.80	129.00	120.00/M	ECA-2AHG330
	47	47.0	0.08	165	10	12.5	5.0	0.6	P5596-ND	.70	3.96	28.25	101.70	158.00	147.00/M	ECA-2AHG470
	100	100.0	0.08	265	10	20	5.0	0.6	P5597-ND	1.11	6.30	46.30	167.45	266.00	256.00/M	ECA-2AHG101
	220	220.0	0.08	440	12.5	25	5.0	0.6	P5598-ND	1.68	9.60	72.00	256.00	426.00	410.00/M	ECA-2AHG221
	330	330.0	0.08	540	16	25	7.5	0.8	P5599-ND	2.30	13.14	98.55	350.40	583.00	561.00/M	ECA-2AHG331
	470	470.0	0.08	715	16	25	7.5	0.8	P5850-ND	2.92	16.77	126.60	474.75	823.00	798.00/M	ECA-2AHG471
	1000	1000.0	0.08	985	18	35.5	7.5	0.8	P5851-ND	5.93	34.16	257.80	966.75	1676.00	1624.00/M	ECA-2AHG102
160	1.0	19.6	0.15	17	6.3	11.2	2.5	0.5	P5852-ND	.47	2.10	15.00	54.00	84.00	78.00/M	ECA-2CHG010
	2.2	31.1	0.15	25	6.3	11.2	2.5	0.5	P5853-ND	.52	2.10	15.00	54.00	84.00	78.00/M	ECA-2CHG2R2
	3.3	41.6	0.15	36	6.3	11.2	2.5	0.5	P5854-ND	.56	2.10	15.00	54.00	84.00	78.00/M	ECA-2CHG3R3
	4.7	55.1	0.15	43	6.3	11.2	2.5	0.5	P5855-ND	.61	2.10	15.00	54.00	84.00	78.00/M	ECA-2CHG4R7
	10	106.0	0.15	70	10	12.5	5.0	0.6	P5856-ND	.72	3.71	27.26	98.60	157.00	151.00/M	ECA-2CHG100
	22	221.0	0.15	130	10	20	5.0	0.6	P5857-ND	1.01	5.15	37.84	136.85	217.00	209.00/M	ECA-2CHG220
	33	326.0	0.15	180	10	20	5.0	0.6	P5858-ND	1.16	4.86	36.45	129.60	215.00	207.00/M	ECA-2CHG330
	47	461.0	0.15	220	12.5	20	5.0	0.6	P5859-ND	1.52	7.17	53.78	191.20	318.00	306.00/M	ECA-2CHG470
	100	970.0	0.15	335	16	25	7.5	0.8	P5860-ND	2.24	11.79	88.43	314.40	523.00	503.00/M	ECA-2CHG101
	220	2122.0	0.15	540	16	31.5	7.5	0.8	P5861-ND	3.35	15.85	119.60	448.50	777.00	753.00/M	ECA-2CHG221
	330	3178.0	0.15	705	18	31.5	7.5	0.8	P5862-ND	5.03	29.81	225.00	843.75	1463.00	1418.00/M	ECA-2CHG331
250	1.0	25.0	0.15	17	6.3	11.2	2.5	0.5	P5863-ND	.56	2.10	15.00	54.00	84.00	78.00/M	ECA-2EHG010
	2.2	43.0	0.15	29	6.3	11.2	2.5	0.5	P5864-ND	.58	2.10	15.00	54.00	84.00	78.00/M	ECA-2EHG2R2
	3.3	59.5	0.15	42	8	11.5	3.5	0.6	P5865-ND	.65	2.72	19.98	72.25	115.00	111.00/M	ECA-2EHG3R3
	4.7	80.5	0.15	50	8	11.5	3.5	0.6	P5866-ND	.75	3.01	22.09	79.90	127.00	122.00/M	ECA-2EHG4R7
	10	160.0	0.15	88	10	16	5.0	0.6	P5867-ND	1.00	4.58	33.61	121.55	193.00	186.00/M	ECA-2EHG100
	22	340.0	0.15	155	12.5	20	5.0	0.6	P5868-ND	1.34	7.17	53.78	191.20	318.00	306.00/M	ECA-2EHG220
	33	505.0	0.15	190	12.5	20	5.0	0.6	P5869-ND	1.62	7.95	59.63	212.00	352.00	339.00/M	ECA-2EHG330
	47	715.0	0.15	230	12.5	25	5.0	0.6	P5870-ND	2.13	10.26	76.95	273.60	455.00	438.00/M	ECA-2EHG470
	100	1510.0	0.15	365	16	31.5	7.5	0.8	P5871-ND	3.26	15.85	119.60	448.50	777.00	753.00/M	ECA-2EHG101
450	1.0	37.0	0.20	18	8	11.5	3.5	0.6	P5872-ND	.78	3.26	23.97	86.70	138.00	133.00/M	ECA-2WHG010
	2.2	69.4	0.20	29	10	12.5	5.0	0.6	P5873-ND	.87	4.03	29.61	107.10	170.00	164.00/M	ECA-2WHG2R2
	3.3	99.1	0.20	41	10	16	5.0	0.6	P5874-ND	1.14	4.93	36.19	130.90	208.00	200.00/M	ECA-2WHG3R3
	4.7	136.0	0.20	49	10	20	5.0	0.6	P5875-ND	1.48	6.24	46.80	166.40	277.00	266.00/M	ECA-2WHG4R7
	10	280.0	0.20	75	12.5	20	5.0	0.6	P5876-ND	2.02	8.82	66.15	235.20	391.00	376.00/M	ECA-2WHG100
	22	604.0	0.20	115	16	25	7.5	0.8	P5877-ND	2.73	12.67	95.60	358.50	621.00	602.00/M	ECA-2WHG220
	33	901.0	0.20	155	16	31.5	7.5	0.8	P5878-ND	3.68	17.41	131.40	492.75	854.00	828.00/M	ECA-2WHG330

*** NHG-KIT-ND** ***Digi-Key® NHG Series Capacitors Kit*** 10 each of values denoted. 180 total pieces. Included notebook style storage case and bin storage guide **$69.95**

Panasonic® Z Series Miniature Aluminum Electrolytic Capacitors

±20%, Low Leakage, Low Impedance

SPECIFICATIONS:

• **Operating Temperature:** -40°C to +85°C • **Rated Working Voltage:** 6.3 to 50VDC • **Rated Capacitance:** 0.1 to 2200µF • **Capacitance Tolerance:** ±20% • **Leakage Current:** I = 0.002CV + 1 (mA) max.; Where, I: DC leakage current (µA) C: rated capacitance (µF), V: DC rated working voltage (V). Leakage current is measured after 2-minute application of the rated DC working voltage. • **Surge Voltage:** The listed surge voltage is applied to the capacitor in series with 1,000 ohms resistor at a cycle of 0.5 minute "ON" and 4.5 minute "OFF" repeating 1,000 times at 25°C ±10°C. After the test, the capacitor should meet the following limits:

Working Voltage	Surge Voltage
10 V DC	13 V DC
50	63

Capacitance change	Within ±10% of the initial measured value
tan ∂	Less than 150% of the initial specified value
DC leakage current	Less than the initial specified value

• **tan ∂. (Dissipation Factor) Max.**

Working Voltage	tan ∂	D.F.
10V DC	0.17	17
50	0.08	8

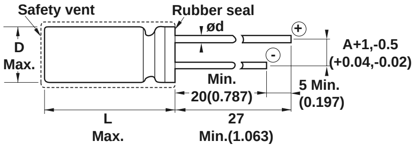
0.06 for 1µF or less.

• **Low Temperature Stability:** Maximum impedance ratio against +20°C at 120Hz

Working Voltage	-25°C to +20°C	-40°C to +20°C
10V	2	4
50	1.5	2

• **Load Life:** After 2,000 hour application of DC working voltage at +85°C with specified RMS ripple current, the measurements should meet the following requirements:

Capacitance change	Within ±20% of the initial measured value
tan ∂	Less than 200% of the initial specified value
DC leakage current	Less than the initial specified value



PANASONIC Z CROSS REFERENCES

IC: RLR
Sprague: 30D
UCC: SX

Not recommended for new designs.

Rating		Dimensions mm (inch)				Max. RMS Ripple Current (mA) @ 120 Hz, 85°C	Max. Leakage Current µA	Digi-Key Part No.	Price Each				Panasonic Part No.
WV DC	Cap. µF	D	L	A	d				1	10	100	1,000	
10	2200	16.0 (.630)	31.5 (1.299)	7.5 (.295)	0.8 (.032)	850	45.0	P6614-ND	1.43	1.08	.81	.48	ECE-A10Z2200
50	0.47	5.0 (.197)	11.2 (0.433)	2.0 (.079)	0.5 (.020)	10	1.1	P6642-ND	.32	.22	.16	.09	ECE-A50ZR47
	3.3	5.0 (.197)	11 (0.433)	2.0 (.079)	0.5 (.020)	25	1.4	P6647-ND	.32	.22	.16	.09	ECE-A50Z3R3

Panasonic® FC Series Radial Lead Aluminum Electrolytic Capacitors

FEATURES:
- Low impedance • Long life: 1000 ~ 5000 hours at +105°C

SPECIFICATIONS:
• **Operating Temperature Range:** -55 to +105°C • **Rated Working Voltage Range:** 6.3 to 100V DC • **Nominal Capacitance Range:** 1.0 to 15000µF • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA) whichever is greater measured after 2 minutes application of rated working voltage at +20°C

• **tan** δ (120 Hz, +20°C)

Working volt. (V)	6.3	10	16	25	35	50	63	100
tan δ max.	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.07

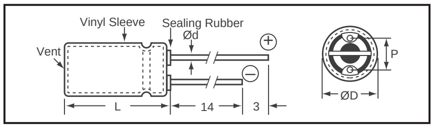
For capacitance value > 1000µF, add 0.02 per every 1000µF.

• **Impedance at High Frequency:** Refer to standard product table (100kHz, +20°C)
• **Ripple Current:** Refer to standard product table (100kHz, +105°C)

Endurance:
Test Conditions — Duration: 1000 hours (for Ø4 ~ Ø6.3mm), 2000 hours (for Ø8mm), 3000 hours (for Ø10mm), 5000 hours (for Ø12.5mm~) • **Ambient Temperature:** +105°C ±2°C • **Applied Voltage:** DC voltage with maximum permissible ripple current specified at +105°C (the sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage.)
Post Test Requirements at +20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan** δ: ≤ 200% of initial specified value
Shelf Life:
Test Conditions — Duration: 1000 hours • **Ambient Temperature:** +105°C ±2°C • **Applied Voltage:** (none)
Post Test Requirements at +20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan** δ: ≤ 200% of initial specified value
• **Body Color:** Black Blue • **Marking Color:** Gold

Frequency Correction Factor for Ripple Current

W.V. (V DC)	Frequency (Hz) / Cap. (µF)	60	120	1K	10K	100K
6.3 ~ 100	1.0 ~ 330	0.55	0.65	0.85	0.90	1.00
	390 ~ 1000	0.70	0.75	0.90	0.95	1.00
	1200 ~ 2200	0.75	0.80	0.90	0.95	1.00
	2700 ~ 15000	0.80	0.85	0.95	1.00	1.00



W.V. (V)	Cap. (µF)	Dimensions (mm) ØD	L	P	Ød	Leakage Current (+20°C) (2 min.) (µA) Max	Impedance (100kHz) (+20°C) (Ω) Max	Ripple Current (+105°C) (mA) rms max.	Life Time (hours)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
6.3	68	4	11	1.5	0.45	4.28	1.30	120	1000	P11165-ND	.44	.30	.21	.12	EEU-FC0J680
	100	5	11	2.0	0.50	6.3	0.80	175	1000	P10195-ND	.46	.19	.14	.08	EEU-FC0J101
	150	5	15	2.0	0.50	9.4	0.50	235	1000	P10196-ND	.47	.32	.22	.12	EEU-FC0J151
	220	6.3	11.2	2.0	0.50	13.86	0.350	290	1000	P11166-ND	.51	.26	.18	.10	EEU-FC0J221
	330	6.3	11.2	2.5	0.50	20.7	0.35	290	1000	P10197-ND	.42	.23	.17	.10	EEU-FC0J331S
	330	6.3	15	2.5	0.50	20.79	0.250	400	1000	P11167-ND	.60	.40	.28	.16	EEU-FC0J331
	390	8	11.5	3.5	0.60	24.57	0.117	555	2000	P11168-ND	.76	.39	.28	.15	EEU-FC0J391
	470	8	11.5	3.5	0.60	29.61	0.117	555	2000	P11169-ND	.76	.39	.28	.15	EEU-FC0J471
	560	8	11.5	3.5	0.60	35.28	0.117	555	2000	P11170-ND	.76	.39	.28	.15	EEU-FC0J561
	820	10	12.5	5.0	0.60	51.66	0.090	755	3000	P11171-ND	1.01	.55	.39	.22	EEU-FC0J821
	820	8	15	3.5	0.60	51.6	0.085	730	2000	P10198-ND	.69	.40	.30	.17	EEU-FC0J821L
	1000	10	12.5	5.0	0.60	63.0	0.090	755	3000	P10199-ND	.76	.46	.34	.19	EEU-FC0J102
	1200	10	16	5.0	0.60	75.6	0.068	1050	3000	P10201-ND	.83	.51	.38	.22	EEU-FC0J122
	1200	8	20	3.5	0.60	75.6	0.065	995	2000	P10200-ND	.78	.48	.36	.21	EEU-FC0J122L
	1500	12.5	15	5.0	0.60	94.5	0.065	1205	5000	P10203-ND	1.13	.77	.57	.33	EEU-FC0J152S
	1500	10	20	5.0	0.60	94.5	0.052	1220	3000	P10202-ND	.99	.61	.45	.26	EEU-FC0J152
	1800	10	25	5.0	0.60	113.4	0.045	1440	3000	P11172-ND	1.43	.82	.58	.32	EEU-FC0J182
	2200	16	15	7.5	0.80	138.6	0.043	1690	5000	P10205-ND	1.48	1.02	.77	.46	EEU-FC0J222S
	2200	10	25	5.0	0.60	138.6	0.045	1440	3000	P10204-ND	1.07	.68	.50	.29	EEU-FC0J222
	2700	16	15	7.5	0.80	170.1	0.043	1690	5000	P11175-ND	2.13	1.33	.94	.51	EEU-FC0J272S
	2700	12.5	20	5.0	0.60	170.1	0.038	1655	5000	P11174-ND	1.86	1.10	.78	.43	EEU-FC0J272
	2700	10	30	5.0	0.60	170.1	0.035	1815	3000	P11173-ND	1.67	1.06	.75	.41	EEU-FC0J272L
	3300	18	15	7.5	0.80	207.9	0.038	2000	5000	P10207-ND	1.97	1.38	1.04	.62	EEU-FC0J332S
	3300	12.5	20	5.0	0.60	207.9	0.038	1655	5000	P10206-ND	1.29	.85	.64	.38	EEU-FC0J332
	3900	12.5	25	5.0	0.60	245.7	0.030	1945	5000	P10208-ND	1.57	.94	.71	.42	EEU-FC0J392
	4700	16	20	7.5	0.80	296.1	0.029	2205	5000	P10210-ND	1.88	1.23	.92	.55	EEU-FC0J472S
	4700	12.5	30	5.0	0.80	296.1	0.025	2310	5000	P10209-ND	1.72	1.05	.79	.47	EEU-FC0J472
	5600	16	20	7.5	0.80	352.8	0.029	2205	5000	P11176-ND	2.70	1.59	1.12	.62	EEU-FC0J562
	5600	12.5	35	5.0	0.80	352.8	0.022	2510	5000	P10211-ND	1.97	1.41	1.06	.63	EEU-FC0J562L
	6800	18	20	7.5	0.80	428.4	0.028	2490	5000	P10214-ND	2.23	1.53	1.15	.75	EEU-FC0J682S
	6800	16	25	7.5	0.80	428.4	0.022	2555	5000	P10213-ND	2.37	1.56	1.17	.70	EEU-FC0J682
	6800	12.5	40	5.0	0.80	428.4	0.018	2655	5000	P10212-ND	2.24	1.61	1.21	.72	EEU-FC0J682L
	8200	16	31.5	7.5	0.80	516.6	0.018	3010	5000	P11177-ND	4.15	2.34	1.65	.90	EEU-FC0J822
	10000	18	25	7.5	0.80	630.0	0.020	2740	5000	P10216-ND	2.75	1.88	1.42	.92	EEU-FC0J103S
	10000	16	35.5	7.5	0.80	630.0	0.016	3150	5000	P10215-ND	2.75	1.96	1.48	.96	EEU-FC0J103
	12000	18	31.5	7.5	0.80	756.0	0.016	3635	5000	P11178-ND	5.19	3.32	2.34	1.28	EEU-FC0J123
	12000	16	40	7.5	0.80	756.0	0.015	3360	5000	P11179-ND	5.30	3.24	2.28	1.25	EEU-FC0J123L
	15000	18	35.5	7.5	0.80	945.0	0.015	3680	5000	P10217-ND	3.57	2.30	1.74	1.13	EEU-FC0J153
10	47	4	11	1.5	0.45	4.7	1.30	120	1000	P11180-ND	.44	.30	.21	.12	EEU-FC1A470
	82	5	11	2.0	0.50	8.2	0.80	175	1000	P10218-ND	.46	.19	.14	.08	EEU-FC1A820
	100	5	11	2.0	0.50	10.0	0.80	175	1000	P11181-ND	.47	.19	.14	.08	EEU-FC1A101S
	100	5	15	2.0	0.50	10.0	0.50	235	1000	P10219-ND	.47	.32	.22	.12	EEU-FC1A101
	180	6.3	11.2	2.5	0.50	18.0	0.35	290	1000	P11182-ND	.51	.26	.18	.10	EEU-FC1A181
	220	6.3	11.2	2.5	0.50	22.0	0.35	290	1000	P10220-ND	.42	.23	.17	.10	EEU-FC1A221S
	220	6.3	15	2.5	0.50	22.0	0.25	400	1000	P11183-ND	.60	.40	.28	.16	EEU-FC1A221
	330	8	11.5	3.5	0.60	33.0	0.117	555	2000	P11184-ND	.76	.39	.28	.15	EEU-FC1A331
	390	8	11.5	3.5	0.60	39.0	0.117	555	2000	P11185-ND	.76	.39	.28	.15	EEU-FC1A391
	470	8	11.5	3.5	0.60	47.0	0.117	555	2000	P10221-ND	.63	.35	.25	.14	EEU-FC1A471
	560	10	12.5	5.0	0.60	56.0	0.09	755	3000	P11186-ND	1.01	.55	.39	.22	EEU-FC1A561
	680	10	12.5	5.0	0.60	68.0	0.090	755	3000	P10223-ND	.76	.47	.35	.20	EEU-FC1A681
	680	8	15	3.5	0.60	68.0	0.085	730	2000	P10222-ND	.69	.40	.30	.17	EEU-FC1A681L
	820	10	16	5.0	0.60	82.0	0.068	1050	3000	P11187-ND	1.11	.62	.44	.24	EEU-FC1A821
	1000	10	16	5.0	0.60	100.0	0.068	1050	3000	P10225-ND	.83	.53	.39	.23	EEU-FC1A102
	1000	8	20	3.5	0.60	82.0	0.065	995	2000	P10224-ND	.78	.48	.36	.21	EEU-FC1A102L
	1200	12.5	15	5.0	0.60	120.0	0.065	1205	5000	P10227-ND	1.13	.77	.57	.33	EEU-FC1A122S
	1200	10	20	5.0	0.60	120.0	0.052	1220	3000	P10226-ND	.99	.62	.46	.27	EEU-FC1A122
	1500	10	25	5.0	0.60	150.0	0.045	1440	3000	P10228-ND	1.07	.68	.50	.29	EEU-FC1A152
	1800	16	15	7.5	0.80	180.0	0.043	1690	5000	P10229-ND	1.48	1.02	.77	.46	EEU-FC1A182S
	1800	12.5	20	5.0	0.60	180.0	0.038	1655	5000	P11188-ND	1.86	1.10	.78	.43	EEU-FC1A182
	2200	12.5	20	5.0	0.60	220.0	0.038	1655	5000	P10230-ND	1.29	.85	.64	.38	EEU-FC1A222
	2200	10	30	5.0	0.60	220.0	0.035	1815	3000	P11189-ND	1.67	1.06	.75	.41	EEU-FC1A222L
	2700	18	15	7.5	0.80	270.0	0.038	2000	5000	P10232-ND	1.97	1.38	1.04	.62	EEU-FC1A272S
	2700	12.5	25	5.0	0.60	270.0	0.030	1945	5000	P10231-ND	1.57	.98	.74	.44	EEU-FC1A272
	3300	16	20	7.5	0.80	330.0	0.029	2205	5000	P10234-ND	1.88	1.23	.92	.55	EEU-FC1A332S
	3300	12.5	30	5.0	0.80	330.0	0.025	2310	5000	P10233-ND	1.72	1.05	.79	.47	EEU-FC1A332

(Continued)

FC Series Radial Lead Aluminum Electrolytic Capacitors *(Cont.)*

W.V. (V)	Cap. (µF)	Dimensions (mm)				Leakage Current (+20°C) (2 min.) (µA) Max	Impedance (100kHz) (+20°C) (Ω) Max	Ripple Current (+105°C) (mA) rms max.	Life Time (hours)	Digi-Key Part No.	Price Each				Panasonic Part No.
		ØD	L	P	Ød						1	10	100	1,000	
10	3900	16	20	7.5	0.80	390.0	0.029	2205	5000	P11190-ND	2.83	1.59	1.12	.62	EEU-FC1A392
	3900	12.5	35	5.0	0.80	390.0	0.022	2510	5000	P10235-ND	1.97	1.41	1.06	.63	EEU-FC1A392L
	4700	16	25	7.5	0.80	470.0	0.022	2555	5000	P10237-ND	2.37	1.44	1.08	.64	EEU-FC1A472
	4700	12.5	40	5.0	0.80	470.0	0.018	2655	5000	P10236-ND	2.24	1.67	1.26	.74	EEU-FC1A472L
	5600	18	20	7.5	0.80	560.0	0.028	2490	5000	P10238-ND	2.23	1.53	1.15	.75	EEU-FC1A562S
	5600	16	25	7.5	0.80	560.0	0.022	2555	5000	P11191-ND	3.41	1.86	1.32	.72	EEU-FC1A562
	6800	18	25	7.5	0.80	680.0	0.020	2740	5000	P10240-ND	2.65	1.88	1.42	.92	EEU-FC1A682S
	6800	16	31.5	7.5	0.80	680.0	0.018	3010	5000	P10239-ND	2.52	1.59	1.20	.78	EEU-FC1A682
	8200	18	31.5	7.5	0.80	820.0	0.016	3635	5000	P11193-ND	5.19	3.32	2.34	1.28	EEU-FC1A822
	8200	16	35.5	7.5	0.80	820.0	0.016	3150	5000	P11192-ND	4.51	2.88	2.03	1.11	EEU-FC1A822L
	10000	18	35.5	7.5	0.80	1000.0	0.015	3680	5000	P10241-ND	3.57	2.30	1.74	1.13	EEU-FC1A103
	12000	18	40	7.5	0.80	1200.0	0.014	3735	5000	P11194-ND	6.72	4.24	2.99	1.64	EEU-FC1A123
16	39	4	11	1.5	0.45	6.24	1.30	120	1000	P11195-ND	.44	.30	.21	.12	EEU-FC1C390
	47	5	11	2.0	0.50	7.52	0.80	175	1000	P11196-ND	.46	.19	.14	.08	EEU-FC1C470
	56	5	11	2.0	0.50	8.96	0.80	175	1000	P11197-ND	.46	.19	.14	.08	EEU-FC1C560
	68	5	11	2.0	0.50	10.8	0.80	175	1000	P10242-ND	.46	.19	.14	.08	EEU-FC1C680
	82	5	15	2.0	0.50	13.1	0.50	235	1000	P10243-ND	.47	.32	.22	.12	EEU-FC1C820
	100	6.3	11.2	2.5	0.50	16.0	0.35	290	1000	P11198-ND	.51	.26	.18	.10	EEU-FC1C101
	120	6.3	11.2	2.5	0.50	19.2	0.35	290	1000	P10244-ND	.42	.23	.17	.10	EEU-FC1C121
	180	6.3	15	2.5	0.50	28.8	0.25	400	1000	P10245-ND	.49	.36	.26	.15	EEU-FC1C181
	220	8	11.5	3.5	0.60	35.2	0.117	555	2000	P11199-ND	.76	.39	.28	.15	EEU-FC1C221
	270	8	11.5	3.5	0.60	43.2	0.117	555	2000	P11200-ND	.76	.41	.29	.16	EEU-FC1C271
	330	8	11.5	3.5	0.60	52.8	0.117	555	2000	P10246-ND	.63	.35	.25	.14	EEU-FC1C331
	390	10	12.5	5.0	0.60	62.4	0.09	755	3000	P11201-ND	1.01	.55	.39	.22	EEU-FC1C391
	470	10	12.5	5.0	0.60	75.2	0.090	755	3000	P10248-ND	.76	.46	.34	.19	EEU-FC1C471
	470	8	15	3.5	0.60	75.2	0.085	730	2000	P10247-ND	.69	.41	.31	.18	EEU-FC1C471L
	560	10	16	5.0	0.60	89.6	0.068	1050	3000	P11202-ND	1.11	.62	.44	.24	EEU-FC1C561
	680	10	16	5.0	0.60	108.8	0.068	1050	3000	P10250-ND	.83	.61	.45	.26	EEU-FC1C681
	680	8	20	3.5	0.60	108.8	0.065	995	2000	P10249-ND	.78	.46	.34	.20	EEU-FC1C681L
	820	12.5	15	5.0	0.60	131.2	0.065	1205	5000	P10252-ND	1.13	.77	.57	.33	EEU-FC1C821S
	820	10	20	5.0	0.60	131.2	0.052	1220	3000	P10251-ND	.99	.60	.44	.26	EEU-FC1C821
	1000	10	20	5.0	0.60	160.0	0.052	1220	3000	P11203-ND	1.37	.73	.52	.28	EEU-FC1C102S
	1000	10	25	5.0	0.60	160.0	0.045	1440	3000	P10253-ND	1.07	.70	.52	.30	EEU-FC1C102
	1200	16	15	7.5	0.80	192.0	0.043	1690	5000	P11205-ND	2.13	1.33	.94	.51	EEU-FC1C122S
	1200	10	25	5.0	0.60	192.0	0.045	1440	3000	P11204-ND	1.43	.82	.58	.32	EEU-FC1C122
	1500	16	15	7.5	0.80	240.0	0.043	1690	5000	P11206-ND	2.19	1.33	.94	.51	EEU-FC1C152S
	1500	12.5	20	5.0	0.60	240.0	0.038	1655	5000	P10254-ND	1.29	.85	.64	.38	EEU-FC1C152
	1500	10.0	30	5.0	0.60	240.0	0.035	1815	3000	P10255-ND	1.25	.87	.64	.37	EEU-FC1C152L
	1800	18	15	7.5	0.80	288.0	0.038	2000	5000	P10256-ND	1.97	1.38	1.04	.62	EEU-FC1C182S
	1800	12.5	25	5.0	0.60	288.0	0.03	1945	5000	P11207-ND	2.25	1.23	.87	.47	EEU-FC1C182
	2200	16	20	7.5	0.80	352.0	0.029	2205	5000	P10258-ND	1.88	1.23	.92	.55	EEU-FC1C222S
	2200	12.5	25	5.0	0.60	352.0	0.030	1945	5000	P10257-ND	1.57	1.02	.77	.46	EEU-FC1C222
	2700	16	20	7.5	0.80	432.0	0.029	2205	5000	P11208-ND	2.70	1.59	1.12	.62	EEU-FC1C272
	2700	12.5	30	5.0	0.80	432.0	0.025	2310	5000	P10259-ND	1.72	1.05	.79	.47	EEU-FC1C272L
	3300	18	20	7.5	0.80	528.0	0.028	2490	5000	P10261-ND	2.23	1.53	1.15	.75	EEU-FC1C332S
	3300	12.5	35	5.0	0.80	528.0	0.022	2510	5000	P10260-ND	1.97	1.46	1.10	.65	EEU-FC1C332
	3900	18	20	7.5	0.80	624.0	0.028	2490	5000	P11209-ND	3.67	2.25	1.59	.87	EEU-FC1C392S
	3900	16	25	7.5	0.80	624.0	0.022	2555	5000	P10262-ND	2.37	1.62	1.22	.72	EEU-FC1C392
	4700	18	25	7.5	0.80	752.0	0.020	2740	5000	P10264-ND	2.65	1.88	1.42	.92	EEU-FC1C472S
	4700	16	31.5	7.5	0.80	752.0	0.018	3010	5000	P10263-ND	2.52	1.59	1.20	.78	EEU-FC1C472
	5600	18	31.5	7.5	0.80	896.0	0.016	3635	5000	P11210-ND	5.19	3.32	2.34	1.28	EEU-FC1C562
	5600	16	35.5	7.5	0.80	896.0	0.016	3150	5000	P10265-ND	2.80	2.12	1.60	1.04	EEU-FC1C562L
	6800	16	40	7.5	0.80	1088.0	0.015	3360	5000	P11211-ND	5.14	3.24	2.28	1.25	EEU-FC1C682
	8200	18	35.5	7.5	0.80	1312.0	0.015	3680	5000	P10266-ND	3.57	2.30	1.74	1.13	EEU-FC1C822
25	10	4	7	1.5	0.45	2.5	2	65	1000	P11212-ND	.43	.18	.13	.07	EEA-FC1E100
	22	5	7	2	0.45	5.5	0.95	120	1000	P11213-ND	.44	.19	.14	.08	EEA-FC1E220
	27	4	11	1.5	0.45	6.75	1.3	120	1000	P11214-ND	.44	.30	.21	.12	EEU-FC1E270
	39	5	11	2	0.50	9.75	0.80	175	1000	P11215-ND	.28	.19	.14	.08	EEU-FC1E390
	47	5	11	2.0	0.50	11.7	0.80	175	1000	P10267-ND	.28	.19	.14	.08	EEU-FC1E470
	56	5	15	2.0	0.50	14.0	0.50	235	1000	P10268-ND	.47	.32	.22	.12	EEU-FC1E560
	82	6.3	11.2	2.5	0.50	20.5	0.35	290	1000	P11216-ND	.51	.27	.19	.11	EEU-FC1E820
	100	6.3	11.2	2.5	0.50	25.0	0.35	290	1000	P10269-ND	.35	.23	.17	.10	EEU-FC1E101S
	120	6.3	15	2.5	0.50	30.0	0.25	400	1000	P10270-ND	.49	.36	.26	.15	EEU-FC1E121
	180	8	11.5	3.5	0.60	45.0	0.117	555	2000	P11217-ND	.76	.39	.28	.15	EEU-FC1E181
	220	8	11.5	3.5	0.60	55.0	0.117	555	2000	P10271-ND	.63	.37	.26	.15	EEU-FC1E221
	270	10	12.5	5	0.60	67.5	0.09	755	3000	P11218-ND	1.01	.55	.39	.22	EEU-FC1E271
	330	10	12.5	5.0	0.60	82.5	0.090	755	3000	P10273-ND	.76	.48	.36	.21	EEU-FC1E331
	330	8	15	3.5	0.60	82.5	0.085	730	2000	P10272-ND	.69	.41	.31	.18	EEU-FC1E331L
	390	10	16	5	0.60	97.5	0.068	1050	3000	P11219-ND	1.11	.62	.44	.24	EEU-FC1E391
	470	10	16	5.0	0.60	117.5	0.068	1050	3000	P10275-ND	.83	.55	.40	.23	EEU-FC1E471
	470	8	20	3.5	0.60	117.5	0.065	995	2000	P10274-ND	.78	.48	.36	.21	EEU-FC1E471L
	560	12.5	15	5.0	0.60	140.0	0.065	1205	5000	P10276-ND	1.13	.77	.57	.33	EEU-FC1E561S
	560	10	20	5	0.60	140.0	0.052	1220	3000	P11220-ND	1.32	.78	.55	.30	EEU-FC1E561
	680	10	20	5.0	0.60	170.0	0.052	1220	3000	P10277-ND	.99	.62	.46	.27	EEU-FC1E681
	820	12.5	20	5	0.60	205.0	0.038	1655	5000	P11222-ND	1.86	1.10	.78	.43	EEU-FC1E821S
	820	10	25	5	0.60	205.0	0.045	1440	3000	P11221-ND	1.43	.82	.58	.32	EEU-FC1E821
	1000	16	15	7.5	0.80	250.0	0.043	1690	5000	P10279-ND	1.48	1.02	.77	.46	EEU-FC1E102S
	1000	12.5	20	5.0	0.60	250.0	0.038	1655	5000	P10278-ND	1.29	.88	.66	.39	EEU-FC1E102
	1000	10	30	5	0.60	250.0	0.035	1815	3000	P11223-ND	1.67	1.06	.75	.41	EEU-FC1E102L

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W.V. (V)	Cap. (µF)	Dimensions (mm)				Leakage Current (+20°C) (2 min.) (µA) Max	Impedance (100kHz) (+20°C) (Ω) Max	Ripple Current (+105°C) (mA) rms max.	Life Time (hours)	Digi-Key Part No.	Price Each				Panasonic Part No.
		ØD	L	P	Ød						1	10	100	1,000	
25	1200	18	15	7.5	0.80	300.0	0.038	2000	5000	P10280-ND	1.97	1.38	1.04	.62	EEU-FC1E122S
	1200	12.5	25	5	0.60	300.0	0.03	1945	5000	P11224-ND	2.25	1.23	.87	.47	EEU-FC1E122
	1500	16	20	7.5	0.80	375.0	0.029	2205	5000	P10282-ND	1.88	1.23	.92	.55	EEU-FC1E152S
	1500	12.5	25	5.0	0.60	375.0	0.030	1945	5000	P10281-ND	1.57	.94	.71	.42	EEU-FC1E152
	1800	16	20	7.5	0.80	450.0	0.029	2205	5000	P11225-ND	2.70	1.59	1.12	.62	EEU-FC1E182
	1800	12.5	30	5.0	0.80	450.0	0.025	2310	5000	P10283-ND	1.72	1.05	.79	.47	EEU-FC1E182L
	2200	18	20	7.5	0.80	550.0	0.028	2490	5000	P10285-ND	2.23	1.53	1.15	.75	EEU-FC1E222S
	2200	12.5	35	5.0	0.80	550.0	0.022	2510	5000	P10284-ND	1.97	1.46	1.10	.65	EEU-FC1E222
	2700	16	25	7.5	0.80	675.0	0.022	2555	5000	P10286-ND	2.37	1.44	1.08	.64	EEU-FC1E272
	3300	18	25	7.5	0.80	825.0	0.020	2740	5000	P10288-ND	2.65	1.88	1.42	.92	EEU-FC1E332S
	3300	16	31.5	7.5	0.80	825.0	0.018	3010	5000	P10287-ND	2.52	1.59	1.20	.78	EEU-FC1E332
	3900	18	31.5	7.5	0.80	975.0	0.016	3635	5000	P11227-ND	5.19	3.32	2.34	1.28	EEU-FC1E392
	3900	16	35.5	7.5	0.80	975.0	0.016	3150	5000	P11226-ND	4.51	2.88	2.03	1.11	EEU-FC1E392L
	4700	18	35.5	7.5	0.80	1175.0	0.015	3680	5000	P10289-ND	3.57	2.30	1.74	1.13	EEU-FC1E472
	5600	18	40	7.5	0.80	1400.0	0.014	3735	5000	P11228-ND	6.72	4.24	2.99	1.64	EEU-FC1E562
35	18	4	11	1.5	0.45	6.3	1.3	120	1000	P11229-ND	.44	.30	.21	.12	EEU-FC1V180
	22	5	11	2	0.50	7.7	0.80	175	1000	P11230-ND	.46	.19	.14	.08	EEU-FC1V220
	27	5	11	2	0.50	9.45	0.80	175	1000	P11231-ND	.46	.19	.14	.08	EEU-FC1V270
	33	5	11	2.0	0.50	11.5	0.80	175	1000	P10290-ND	.46	.19	.14	.08	EEU-FC1V330
	39	5	15	2.0	0.50	13.6	0.50	235	1000	P10291-ND	.47	.32	.22	.12	EEU-FC1V390
	47	6.3	11.2	2.5	0.50	16.45	0.35	290	1000	P11232-ND	.51	.26	.18	.10	EEU-FC1V470
	56	6.3	11.2	2.5	0.50	19.6	0.35	290	1000	P11233-ND	.51	.27	.19	.11	EEU-FC1V560
	68	6.3	11.2	2.5	0.50	23.8	0.35	290	1000	P10292-ND	.42	.23	.17	.10	EEU-FC1V680
	82	6.3	15	2.5	0.50	28.7	0.25	400	1000	P10293-ND	.49	.36	.26	.15	EEU-FC1V820
	100	8	11.5	3.5	0.60	35.0	0.117	555	2000	P10294-ND	.63	.37	.26	.15	EEU-FC1V101
	120	8	11.5	3.5	0.60	42.0	0.117	555	2000	P11234-ND	.76	.41	.29	.16	EEU-FC1V121
	150	8	11.5	3.5	0.60	52.5	0.117	555	2000	P10295-ND	.63	.39	.28	.16	EEU-FC1V151
	180	10	12.5	5	0.60	63.0	0.09	755	3000	P11235-ND	1.01	.55	.39	.22	EEU-FC1V181
	220	10	12.5	5.0	0.60	77.0	0.090	755	3000	P10297-ND	.76	.48	.36	.21	EEU-FC1V221
	220	8	15	3.5	0.60	77.0	0.085	730	2000	P10296-ND	.69	.40	.30	.17	EEU-FC1V221L
	270	10	16	5	0.60	94.5	0.068	1050	3000	P11236-ND	1.11	.62	.44	.24	EEU-FC1V271
	390	12.5	15	5.0	0.60	136.5	0.065	1205	5000	P10300-ND	1.13	.77	.57	.33	EEU-FC1V391S
	330	10	16	5.0	0.60	115.5	0.068	1050	3000	P10299-ND	.83	.51	.38	.22	EEU-FC1V331
	330	8	20	3.5	0.60	115.5	0.065	995	2000	P10298-ND	.78	.46	.34	.20	EEU-FC1V331L
	390	10	20	5	0.60	136.5	0.052	1220	3000	P11237-ND	1.32	.76	.54	.29	EEU-FC1V391
	470	10	20	5.0	0.60	164.5	0.052	1220	3000	P10301-ND	.99	.62	.46	.27	EEU-FC1V471
	560	12.5	20	5	0.60	196.0	0.038	1655	5000	P11239-ND	1.86	1.14	.81	.44	EEU-FC1V561S
	560	10	25	5	0.60	196.0	0.045	1440	3000	P11238-ND	1.43	.82	.58	.32	EEU-FC1V561
	680	16	15	7.5	0.80	238.0	0.043	1690	5000	P10303-ND	1.48	1.06	.80	.47	EEU-FC1V681S
	680	12.5	20	5.0	0.60	238.0	0.038	1655	5000	P10302-ND	1.29	.85	.64	.38	EEU-FC1V681
	680	10	30	5	0.60	238.0	0.035	1815	3000	P11240-ND	1.67	1.06	.75	.41	EEU-FC1V681L
	820	18	15	7.5	0.80	287.0	0.038	2000	5000	P10304-ND	1.97	1.44	1.08	.64	EEU-FC1V821
	820	12.5	25	5	0.60	287.0	0.03	1945	5000	P11241-ND	2.25	1.23	.87	.47	EEU-FC1V821L
	1000	16	20	7.5	0.80	350.0	0.029	2205	5000	P10876-ND	1.89	1.23	.92	.55	EEU-FC1V102S
	1000	12.5	25	5.0	0.60	350.0	0.030	1945	5000	P10305-ND	1.57	1.05	.79	.47	EEU-FC1V102
	1200	16	20	7.5	0.80	420.0	0.029	2205	5000	P11242-ND	2.70	1.59	1.12	.62	EEU-FC1V122
	1200	12.5	30	5.0	0.80	420.0	0.025	2310	5000	P10306-ND	1.72	1.05	.79	.47	EEU-FC1V122L
	1500	18	20	7.5	0.80	525.0	0.028	2490	5000	P11243-ND	3.67	2.25	1.59	.87	EEU-FC1V152S
	1500	16	25	7.5	0.80	525.0	0.022	2555	5000	P10308-ND	2.37	1.44	1.08	.64	EEU-FC1V152
	1500	12.5	35	5.0	0.80	525.0	0.022	2510	5000	P10307-ND	1.97	1.41	1.06	.63	EEU-FC1V152L
	1800	18	20	7.5	0.80	630.0	0.028	2490	5000	P11246-ND	3.67	2.25	1.59	.87	EEU-FC1V182S
	1800	16	25	7.5	0.80	630.0	0.022	2555	5000	P11245-ND	3.41	2.03	1.43	.78	EEU-FC1V182
	1800	12.5	40	5	0.80	630.0	0.018	2655	5000	P11244-ND	3.22	2.09	1.48	.81	EEU-FC1V182L
	2200	18	25	7.5	0.80	770.0	0.020	2740	5000	P10310-ND	2.65	1.88	1.42	.92	EEU-FC1V222S
	2200	16	31.5	7.5	0.80	770.0	0.018	3010	5000	P10309-ND	2.52	1.75	1.32	.86	EEU-FC1V222
	2700	18	31.5	7.5	0.80	945.0	0.016	3635	5000	P11248-ND	5.19	3.32	2.34	1.28	EEU-FC1V272
	2700	16	35.5	7.5	0.80	945.0	0.016	3150	5000	P11247-ND	4.51	2.88	2.03	1.11	EEU-FC1V272L
	3300	18	35.5	7.5	0.80	1155.0	0.015	3680	5000	P10311-ND	3.57	2.30	1.74	1.13	EEU-FC1V332
	3900	18	40	7.5	0.80	1365.0	0.014	3735	5000	P11249-ND	6.72	4.24	2.99	1.64	EEU-FC1V392
50	1.0	5	11	2.0	0.50	0.5	2.40	20	1000	P10312-ND	.46	.24	.17	.09	EEU-FC1H1R0
	2.2	5	11	2.0	0.50	1.1	1.30	45	1000	P10313-ND	.46	.24	.17	.09	EEU-FC1H2R2
	3.3	5	11	2.0	0.50	1.6	1.30	65	1000	P10314-ND	.46	.19	.14	.08	EEU-FC1H3R3
	4.7	5	11	2.0	0.50	2.3	1.30	95	1000	P10315-ND	.46	.24	.17	.09	EEU-FC1H4R7
	10	4	11	1.5	0.45	5.0	2.5	90	1000	P11250-ND	.44	.30	.21	.12	EEU-FC1H100
	10	5	11	2.0	0.50	5.0	1.30	125	1000	P10316-ND	.46	.19	.14	.08	EEU-FC1H100L
	15	5	11	2.0	0.50	7.5	1.30	145	1000	P10317-ND	.46	.19	.14	.08	EEU-FC1H150
	18	5	11	2	0.50	9.0	1.3	155	1000	P11251-ND	.46	.19	.14	.08	EEU-FC1H180
	22	5	11	2.0	0.50	11.0	1.30	155	1000	P10318-ND	.46	.19	.14	.08	EEU-FC1H220
	27	5	15	2.0	0.50	13.5	0.90	215	1000	P10319-ND	.47	.32	.22	.12	EEU-FC1H270
	33	6.3	11.2	2.5	0.50	16.5	0.60	260	1000	P10320-ND	.42	.24	.17	.10	EEU-FC1H330
	47	6.3	11.2	2.5	0.50	23.5	0.60	260	1000	P10321-ND	.42	.23	.17	.10	EEU-FC1H470
	56	6.3	15	2.5	0.50	28.0	0.40	360	1000	P10322-ND	.49	.36	.26	.15	EEU-FC1H560
	68	8	11.5	3.5	0.60	34.0	0.234	485	2000	P11252-ND	.76	.39	.28	.15	EEU-FC1H680
	82	8	11.5	3.5	0.60	41.0	0.234	485	2000	P11253-ND	.76	.43	.31	.17	EEU-FC1H820
	100	10	12.5	5.0	0.60	50.0	0.162	615	3000	P10323-ND	.76	.48	.36	.21	EEU-FC1H101
	120	10	12.5	5	0.60	60.0	0.162	615	3000	P11255-ND	1.01	.55	.39	.22	EEU-FC1H121
	120	8	15	3.5	0.60	60.0	0.155	635	2000	P11254-ND	.92	.49	.35	.19	EEU-FC1H121L
	150	10	16	5	0.60	75.0	0.119	850	3000	P11256-ND	1.11	.62	.44	.24	EEU-FC1H151
	180	8	20	3.5	0.60	90.0	0.120	860	2000	P10324-ND	.78	.46	.34	.20	EEU-FC1H181L
	220	12.5	15	5.0	0.60	110.0	0.110	1150	5000	P10326-ND	1.13	.77	.57	.33	EEU-FC1H221S

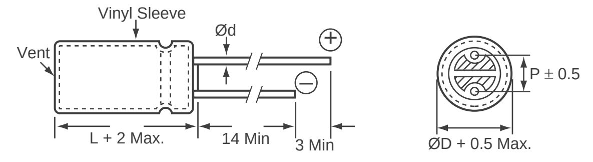
(Continued)

W.V. (V)	Cap. (µF)	Dimensions (mm)				Leakage Current (+20°C) (2 min.) (µA) Max	Impedance (100kHz) (+20°C) (Ω) Max	Ripple Current (+105°C) (mA) rms max.	Life Time (hours)	Digi-Key Part No.	Price Each				Panasonic Part No.
		ØD	L	P	Ød						1	10	100	1,000	
50	220	10	20	5.0	0.60	110.0	0.090	1030	3000	P10325-ND	.99	.62	.46	.27	EEU-FC1H221
	270	10	25	5	0.60	135.0	0.082	1200	3000	P11257-ND	1.43	.82	.58	.32	EEU-FC1H271
	330	12.5	20	5	0.60	165.0	0.063	1480	5000	P11258-ND	1.86	1.10	.78	.43	EEU-FC1H331
	390	16	15	7.5	0.80	195.0	0.080	1610	5000	P10327-ND	1.48	1.02	.77	.46	EEU-FC1H391S
	390	12.5	20	5	0.60	195.0	0.063	1480	5000	P11259-ND	1.86	1.10	.78	.43	EEU-FC1H391
	470	12.5	25	5.0	0.60	235.0	0.050	1832	5000	P10328-ND	1.57	1.08	.81	.48	EEU-FC1H471
	470	10	30	5	0.60	235.0	0.06	1610	3000	P11260-ND	1.67	1.06	.75	.41	EEU-FC1H471L
	560	18	15	7.5	0.80	280.0	0.068	1900	5000	P10329-ND	1.97	1.38	1.04	.62	EEU-FC1H561S
	560	12.5	25	5	0.60	280.0	0.05	1832	5000	P11261-ND	2.25	1.23	.87	.47	EEU-FC1H561
	680	16	20	7.5	0.80	340.0	0.048	1835	5000	P10331-ND	1.88	1.23	.92	.55	EEU-FC1H681
	680	12.5	30	5.0	0.80	340.0	0.040	2215	5000	P10330-ND	1.72	1.05	.79	.47	EEU-FC1H681L
	820	18	20	7.5	0.80	410.0	0.042	2420	5000	P11262-ND	3.67	2.25	1.59	.87	EEU-FC1H821
	820	12.5	35	5.0	0.80	410.0	0.034	2285	5000	P10332-ND	1.97	1.41	1.06	.63	EEU-FC1H821L
	1000	16	25	7.5	0.80	500.0	0.034	2235	5000	P10333-ND	2.37	1.49	1.12	.66	EEU-FC1H102
	1000	12.5	40	5	0.80	500.0	0.03	2590	5000	P11263-ND	3.22	2.09	1.48	.81	EEU-FC1H102L
	1200	18	25	7.5	0.80	600.0	0.029	2610	5000	P11265-ND	4.35	2.76	1.95	1.07	EEU-FC1H122S
	1200	16	31.5	7.5	0.80	600.0	0.028	2700	5000	P11264-ND	4.15	2.34	1.65	.90	EEU-FC1H122
	1500	16	35.5	7.5	0.80	750.0	0.025	2790	5000	P10334-ND	2.75	1.96	1.48	.96	EEU-FC1H152L
	1800	18	31.5	7.5	0.80	900.0	0.025	3000	5000	P11267-ND	5.19	3.44	2.42	1.32	EEU-FC1H182
	1800	16	40	7.5	0.80	900.0	0.023	2845	5000	P11266-ND	5.14	3.36	2.37	1.29	EEU-FC1H182L
	2200	18	35.5	7.5	0.80	1100.0	0.023	3100	5000	P10335-ND	3.57	2.39	1.80	1.17	EEU-FC1H222
63	6.8	4	11	1.5	0.45	4.284	3.5	80	1000	P11268-ND	.44	.30	.21	.12	EEU-FC1J6R8
	12	5	11	2.0	0.50	7.5	2.00	145	1000	P10336-ND	.46	.19	.14	.08	EEU-FC1J120
	18	5	15	2.0	0.50	11.3	1.30	200	1000	P10337-ND	.47	.32	.22	.12	EEU-FC1J180
	22	6.3	11.2	2.5	0.50	13.8	1.00	240	1000	P10338-ND	.42	.24	.17	.10	EEU-FC1J220
	33	6.3	11.2	2.5	0.50	20.7	1.000	240	1000	P10764-ND	.43	.23	.17	.10	EEU-FC1J330
	39	6.3	15	2.5	0.50	24.5	0.70	330	1000	P10339-ND	.49	.36	.26	.15	EEU-FC1J390
	47	8	11.5	3.5	0.60	29.6	0.342	405	2000	P10340-ND	.63	.37	.26	.15	EEU-FC1J470
	68	8	11.5	3.5	0.60	42.8	0.342	405	2000	P10341-ND	.63	.35	.25	.14	EEU-FC1J680
	56	8	11.5	3.5	0.60	35.28	0.342	405	2000	P11269-ND	.76	.39	.28	.15	EEU-FC1J560
	82	10	12.5	5	0.60	51.66	0.256	535	3000	P11270-ND	1.01	.55	.39	.22	EEU-FC1J820
	100	10	12.5	5.0	0.60	63.0	0.256	535	3000	P10343-ND	.76	.48	.36	.21	EEU-FC1J101
	100	8	15	3.5	0.60	63.0	0.230	535	2000	P10342-ND	.69	.48	.36	.21	EEU-FC1J101L
	120	10	16	5	0.60	75.6	0.194	600	3000	P11271-ND	1.11	.62	.44	.24	EEU-FC1J121
	150	8	20	3.5	0.60	94.5	0.178	690	2000	P10344-ND	.78	.46	.34	.20	EEU-FC1J151
	180	12.5	15	5.0	0.60	113.4	0.150	1020	5000	P10345-ND	1.13	.77	.57	.33	EEU-FC1J181S
	180	10	20	5	0.60	113.4	0.147	885	3000	P11272-ND	1.32	.73	.52	.28	EEU-FC1J181
	220	12.5	20	5.0	0.60	138.6	0.085	1285	5000	P10347-ND	1.29	.85	.64	.38	EEU-FC1J221S
	220	10	25	5.0	0.60	138.6	0.130	1050	3000	P10346-ND	.94	.70	.52	.30	EEU-FC1J221
	270	16	15	7.5	0.80	170.1	0.090	1410	5000	P10348-ND	1.48	1.02	.77	.46	EEU-FC1J271
	330	12.5	20	5.0	0.60	207.9	0.085	1285	5000	P10349-ND	1.29	.88	.66	.39	EEU-FC1J331
	330	10	30	5	0.60	207.9	0.09	1300	3000	P11273-ND	1.67	1.06	.75	.41	EEU-FC1J331L
	390	18	15	7.5	0.80	245.7	0.086	1690	5000	P10350-ND	1.97	1.38	1.04	.62	EEU-FC1J391S
	390	12.5	25	5	0.60	245.7	0.07	1720	5000	P11274-ND	2.25	1.23	.87	.47	EEU-FC1J391
	470	16	20	7.5	0.80	296.1	0.059	1765	5000	P10352-ND	1.88	1.27	.95	.57	EEU-FC1J471
	470	12.5	30	5.0	0.80	296.1	0.055	2090	5000	P10351-ND	1.72	1.05	.79	.47	EEU-FC1J471L
	560	16	25	7.5	0.80	352.8	0.05	2160	5000	P11275-ND	3.41	1.86	1.32	.72	EEU-FC1J561
	680	18	20	7.5	0.80	428.4	0.055	2290	5000	P11276-ND	3.67	2.25	1.59	.87	EEU-FC1J681S
	680	16	25	7.5	0.80	428.4	0.050	2160	5000	P10354-ND	2.37	1.46	1.10	.65	EEU-FC1J681
	680	12.5	35	5.0	0.80	428.4	0.047	2265	5000	P10353-ND	1.97	1.46	1.10	.65	EEU-FC1J681L
	820	18	25	7.5	0.80	516.6	0.043	2585	5000	P11279-ND	4.35	2.76	1.95	1.07	EEU-FC1J821S
	820	16	31.5	7.5	0.80	516.6	0.043	2670	5000	P11278-ND	4.15	2.34	1.65	.90	EEU-FC1J821
	820	12.5	40	5	0.80	516.6	0.042	2560	5000	P11277-ND	3.22	2.09	1.48	.81	EEU-FC1J821L
	1000	16	31.5	7.5	0.80	630.0	0.043	2670	5000	P11280-ND	4.27	2.34	1.65	.90	EEU-FC1J102U
	1000	16	35.5	7.5	0.80	630.0	0.036	2770	5000	P10355-ND	2.75	1.96	1.48	.96	EEU-FC1J102
	1200	16	40	7.5	0.80	756.0	0.032	2950	5000	P11282-ND	5.14	3.24	2.28	1.25	EEU-FC1J122L
	1200	18	31.5	7.5	0.80	756.0	0.03	2825	5000	P11281-ND	5.19	3.32	2.34	1.28	EEU-FC1J122
	1500	18	35.5	7.5	0.80	945.0	0.030	3095	5000	P10356-ND	3.57	2.30	1.74	1.13	EEU-FC1J152
	1800	18	40	7.5	0.80	1134.0	0.025	3205	5000	P11283-ND	6.72	4.24	2.99	1.64	EEU-FC1J182
100	1.0	5	11	2.0	0.50	1.0	7.500	15	1000	P10765-ND	.34	.19	.14	.08	EEU-FC2A1R0
	2.2	5	11	2.0	0.50	2.2	5.400	35	1000	P10766-ND	.42	.19	.14	.08	EEU-FC2A2R2
	3.3	5	11	2.0	0.50	3.3	4.400	50	1000	P10767-ND	.42	.19	.14	.08	EEU-FC2A3R3
	4.7	5	11	2.0	0.50	4.7	4.400	65	1000	P10768-ND	.42	.19	.14	.08	EEU-FC2A4R7
	10	6.3	11.2	2.5	0.50	10.0	1.800	114	1000	P10769-ND	.47	.26	.18	.11	EEU-FC2A100
	22	8	11.5	3.5	0.60	22.0	0.680	260	2000	P10770-ND	.70	.39	.28	.16	EEU-FC2A220
	33	10	12.5	5.0	0.60	33.0	0.530	306	3000	P10771-ND	.83	.50	.37	.22	EEU-FC2A330
	33	8	15	3.5	0.60	33.0	0.450	340	2000	P10772-ND	.76	.44	.32	.19	EEU-FC2A330L
	47	10	20	5.0	0.60	47.0	0.240	463	3000	P10773-ND	1.10	.66	.49	.28	EEU-FC2A470
	68	10	25	5.0	0.60	68.0	0.210	599	3000	P10774-ND	1.18	.75	.55	.32	EEU-FC2A680L
	100	12.5	20	5.0	0.60	100.0	0.180	671	5000	P10776-ND	1.44	.93	.70	.42	EEU-FC2A101
	100	10	30	5.0	0.60	100.0	0.150	698	3000	P10775-ND	1.30	.90	.67	.40	EEU-FC2A101L
	150	18	15	7.5	0.80	150.0	0.120	917	5000	P10778-ND	2.19	1.52	1.14	.68	EEU-FC2A151S
	150	12.5	25	5.0	0.60	150.0	0.110	807	5000	P10777-ND	1.50	1.04	.78	.46	EEU-FC2A151
	220	16	25	7.5	0.80	220.0	0.089	1170	5000	P10780-ND	2.30	1.40	1.05	.69	EEU-FC2A221
	220	12.5	35	5.0	0.80	220.0	0.087	1040	5000	P10779-ND	2.19	1.55	1.17	.69	EEU-FC2A221L
	270	12.5	40	5.0	0.80	270.0	0.072	1130	5000	P10781-ND	2.18	1.57	1.18	.77	EEU-FC2A271L
	330	18	25	7.5	0.80	330.0	0.070	1420	5000	P10783-ND	2.95	2.07	1.56	1.02	EEU-FC2A331S
	330	16	31.5	7.5	0.80	330.0	0.062	1520	5000	P10782-ND	2.80	1.75	1.32	.86	EEU-FC2A331
	390	16	35.5	7.5	0.80	390.0	0.053	1730	5000	P10784-ND	3.05	2.15	1.63	1.06	EEU-FC2A391L
	470	16	40	7.5	0.80	470.0	0.047	1920	5000	P10874-ND	3.48	2.42	1.83	1.19	EEU-FC2A471
	680	18	40	7.5	0.80	680.0	0.036	2300	5000	P10875-ND	4.54	3.12	2.36	1.53	EEU-FC2A681

Panasonic® EB Series

Radial Lead Type Capacitor for High Ripple Long Life Applications (High Voltage)

FEATURES: • High Ripple (High Frequency) • Life Time: 105°C 5000 hours
MAIN APPLICATION: • Electronic Ballast, Power supply
SPECIFICATIONS:
Operating Temperature Range: -25°C to +105°C
Rated Working Voltage Range: 160 to 450 V.DC
Nominal Capacitance Range: 10 to 330 µF
Capacitance Tolerance: ±20% (120 Hz, +20°C)
Leakage Current: I ≤0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at +20°C.



Working Voltage:	160	200	250	350	400	450
Dissipation Factor-max. (at 120 Hz, +20°C):	0.15	0.15	0.15	0.20	0.24	0.24
Temperature Char. Z(-25°C)/Z (+20°C): (Impedance ratio at 120Hz)	3	3	3	6	6	6

Ripple Current Frequency Multiplier:

W.V.	**Frequency (Hz)**			
	120	**1k**	**10k ~ 30k**	**30k ~ 100k**
160 ~ 250	0.55	0.85	0.90	1.00
350 ~ 450	0.50	0.80	0.90	1.00

Endurance:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	5000 Hours	**DC Leakage Current**	≤initial specified value
Ambient Temperature	+105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	≤Rated DC Working Voltage	**Dissipation Factor**	≤ 200% initial specified value

Shelf Life:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	1000 Hours	**DC Leakage Current**	≤ initial specified value
Ambient Temperature	+105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**Dissipation Factor**	≤ 200% initial specified value

WV (VDC)	Cap. (µF)	D.C.L. (+20°C/2mm) (µA) max.	DF (120Hz/20°C) max.	Ripple Current (100kHz/+105°C) (mA) rms max.	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
160	22	221.2	0.15	470	10	20	5.0	0.6	P5900-ND	1.27	7.53	58.99	375.00	354.00/M	326.00/M	EEU-EB2C220
	33	326.8	0.15	470	10	20	5.0	0.6	P5901-ND	1.27	7.53	58.99	375.00	354.00/M	326.00/M	EEU-EB2C330
	47	461.2	0.15	600	12.5	20	5.0	0.6	P5902-ND	1.67	11.58	90.71	576.00	544.00/M	501.00/M	EEU-EB2C470
	68	662.8	0.15	750	12.5	25	5.0	0.6	P5903-ND	2.06	12.78	100.11	636.00	600.00/M	553.00/M	EEU-EB2C680
	68	662.8	0.15	750	16	20	7.5	0.8	P5904-ND	2.46	18.81	147.35	936.00	883.00/M	814.00/M	EEU-EB2C680S
	100	970.0	0.15	1060	16	25	7.5	0.8	P5905-ND	2.46	18.81	147.35	936.00	883.00/M	814.00/M	EEU-EB2C101
	100	970.0	0.15	1060	18	20	7.5	0.8	P5906-ND	2.81	24.06	188.47	1197.00	1130.00/M	1042.00/M	EEU-EB2C101S
	150	1450.0	0.15	1280	16	31.5	7.5	0.8	P5907-ND	3.15	26.31	206.10	1309.00	1235.00/M	1139.00/M	EEU-EB2C151
	150	1450.0	0.15	1280	18	25	7.5	0.8	P5908-ND	4.13	27.09	212.21	1348.00	1272.00/M	1173.00/M	EEU-EB2C151S
	220	2122.0	0.15	1280	16	31.5	7.5	0.8	P5909-ND	3.84	26.31	206.10	1309.00	1235.00/M	1139.00/M	EEU-EB2C221
	220	2122.0	0.15	1280	18	25	7.5	0.8	P5910-ND	4.13	27.09	212.21	1348.00	1272.00/M	1173.00/M	EEU-EB2C221S
	330	3178.0	0.15	1690	18	31.5	7.5	0.8	P5911-ND	5.50	47.16	369.42	2346.00	2214.00/M	2042.00/M	EEU-EB2C331
200	22	274.0	0.15	470	10	20	5.0	0.6	P5912-ND	1.22	7.53	58.99	375.00	354.00/M	326.00/M	EEU-EB2D220
	33	406.0	0.15	600	12.5	20	5.0	0.6	P5913-ND	1.84	11.58	90.71	576.00	544.00/M	501.00/M	EEU-EB2D330
	47	574.0	0.15	600	12.5	20	5.0	0.6	P5914-ND	1.84	11.58	90.71	576.00	544.00/M	501.00/M	EEU-EB2D470
	68	826.0	0.15	750	12.5	25	5.0	0.6	P5915-ND	2.54	15.03	117.74	748.00	706.00/M	651.00/M	EEU-EB2D680
	68	826.0	0.15	750	16	20	7.5	0.8	P5916-ND	3.22	18.81	147.35	936.00	883.00/M	814.00/M	EEU-EB2D680S
	100	1210.0	0.15	1060	16	25	7.5	0.8	P5917-ND	3.22	18.81	147.35	936.00	883.00/M	814.00/M	EEU-EB2D101
	100	1210.0	0.15	1060	18	20	7.5	0.8	P5918-ND	3.54	24.06	188.47	1197.00	1130.00/M	1042.00/M	EEU-EB2D101S
	150	1810.0	0.15	1280	16	31.5	7.5	0.8	P5919-ND	3.82	26.31	206.10	1309.00	1235.00/M	1139.00/M	EEU-EB2D151
	150	1810.0	0.15	1280	18	25	7.5	0.8	P5920-ND	4.20	27.09	212.21	1348.00	1272.00/M	1173.00/M	EEU-EB2D151S
	220	2650.0	0.15	1690	18	31.5	7.5	0.8	P5921-ND	6.18	52.95	414.78	2634.00	2486.00/M	2292.00/M	EEU-EB2D221
250	22	340.0	0.15	560	12.5	20	5.0	0.6	P5922-ND	1.78	12.03	94.24	599.00	565.00/M	521.00/M	EEU-EB2E220
	33	505.0	0.15	560	12.5	20	5.0	0.6	P5923-ND	1.78	12.03	94.24	599.00	565.00/M	521.00/M	EEU-EB2E330
	47	715.0	0.15	710	12.5	25	5.0	0.6	P5924-ND	2.34	15.03	117.74	748.00	706.00/M	651.00/M	EEU-EB2E470
	47	715.0	0.15	710	16	20	7.5	0.8	P5925-ND	3.08	18.81	147.35	936.00	883.00/M	814.00/M	EEU-EB2E470S
	68	1030.0	0.15	990	16	25	7.5	0.8	P5926-ND	3.08	18.81	147.35	936.00	883.00/M	814.00/M	EEU-EB2E680
	68	1030.0	0.15	990	18	20	7.5	0.8	P5927-ND	3.39	24.06	188.47	1197.00	1130.00/M	1042.00/M	EEU-EB2E680S
	100	1510.0	0.15	1200	16	31.5	7.5	0.8	P5928-ND	3.82	26.31	206.10	1309.00	1235.00/M	1139.00/M	EEU-EB2E101
	100	1510.0	0.15	1200	18	25	7.5	0.8	P5929-ND	4.20	30.00	235.00	1493.00	1408.00/M	1299.00/M	EEU-EB2E101S
	150	2260.0	0.15	1470	18	31.5	7.5	0.8	P5930-ND	5.50	47.16	369.42	2346.00	2214.00/M	2042.00/M	EEU-EB2E151
350	10	220.0	0.20	270	10	20	5.0	0.6	P5931-ND	1.40	9.03	70.74	449.00	424.00/M	391.00/M	EEU-EB2V100
	22	472.0	0.20	350	12.5	20	5.0	0.6	P5932-ND	1.84	13.32	104.34	663.00	625.00/M	577.00/M	EEU-EB2V220
	33	703.0	0.20	480	16	20	7.5	0.8	P5933-ND	2.90	20.31	159.10	1010.00	954.00/M	879.00/M	EEU-EB2V330S
	47	997.0	0.20	640	16	25	7.5	0.8	P5934-ND	3.58	22.56	176.72	1122.00	1059.00/M	977.00/M	EEU-EB2V470
	47	997.0	0.20	640	18	20	7.5	0.8	P5935-ND	3.94	27.09	212.21	1348.00	1272.00/M	1173.00/M	EEU-EB2V470S
	68	1438.0	0.20	780	16	31.5	7.5	0.8	P5936-ND	4.61	31.59	247.46	1572.00	1483.00/M	1368.00/M	EEU-EB2V680
	68	1438.0	0.20	780	18	25	7.5	0.8	P5937-ND	4.61	31.59	247.46	1572.00	1483.00/M	1368.00/M	EEU-EB2V680S
	100	2110.0	0.20	970	18	31.5	7.5	0.8	P5938-ND	7.13	61.08	478.46	3039.00	2868.00/M	2644.00/M	EEU-EB2V101
400	10	250.0	0.24	250	10	20	5.0	0.6	P5939-ND	1.54	9.03	70.74	449.00	424.00/M	391.00/M	EEU-EB2G100
	22	538.0	0.24	410	12.5	25	5.0	0.6	P5940-ND	2.41	17.31	135.60	861.00	813.00/M	749.00/M	EEU-EB2G220
	22	538.0	0.24	410	16	20	7.5	0.8	P5941-ND	2.65	20.31	159.10	1010.00	954.00/M	879.00/M	EEU-EB2G220S
	33	802.0	0.24	600	16	25	7.5	0.8	P5942-ND	3.58	22.56	176.72	1122.00	1059.00/M	977.00/M	EEU-EB2G330
	33	802.0	0.24	600	18	20	7.5	0.8	P5943-ND	3.94	27.09	212.21	1348.00	1272.00/M	1173.00/M	EEU-EB2G330S
	47	1138.0	0.24	730	16	31.5	7.5	0.8	P5944-ND	5.01	31.59	247.46	1572.00	1483.00/M	1368.00/M	EEU-EB2G470
	47	1138.0	0.24	730	18	25	7.5	0.8	P5945-ND	5.01	31.59	247.46	1572.00	1483.00/M	1368.00/M	EEU-EB2G470S
450	10	280.0	0.24	310	12.5	20	5.0	0.6	P5946-ND	2.04	13.32	104.34	663.00	625.00/M	577.00/M	EEU-EB2W100
	22	604.0	0.24	560	16	25	7.5	0.8	P5947-ND	3.43	22.56	176.72	1122.00	1059.00/M	977.00/M	EEU-EB2W220
	22	604.0	0.24	560	18	20	7.5	0.8	P5948-ND	3.78	28.11	220.20	1399.00	1320.00/M	1217.00/M	EEU-EB2W220S
	33	901.0	0.24	680	16	31.5	7.5	0.8	P5949-ND	4.24	31.59	247.46	1572.00	1483.00/M	1368.00/M	EEU-EB2W330
	33	901.0	0.24	680	18	25	7.5	0.8	P5950-ND	4.67	28.59	223.96	1422.00	1342.00/M	1238.00/M	EEU-EB2W330S
	47	1279.0	0.24	850	18	31.5	7.5	0.8	P5951-ND	6.60	56.55	442.98	2813.00	2655.00/M	2448.00/M	EEU-EB2W470

Bi-Polar Aluminum Electrolytic Capacitors

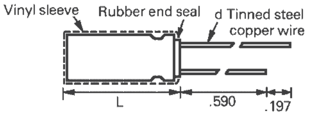
This bi-polar miniature aluminum electrolytic capacitor is ideal for reversal circuit of DC voltage. This series is the miniaturized case size and expanded products range from previous series.

FEATURES:

- Close capacitance tolerance (±20%)
- Compact size
- Stable characteristics at −40°C ~ +85°C

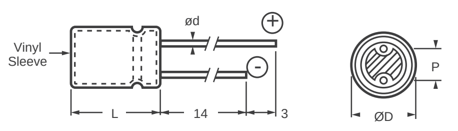
SPECIFICATIONS:

- Operating temperature range: −40°C ~ +85°C
- Rated DC working voltage range: 6.3 ~ 50V DC
- Capacitance tolerance: ±20% • DC leakage current: I = 0.03 CV +3 (µA) (After 5 minutes application of DC working voltage at +20°C)
- tan δ: max. at 120 Hz/20°C



WV	Cap. (µF)	Max. Leakage (µA)	tan δ (120Hz/20°C)	Ripple Current (mA) rms	Dimensions D	L	A	d	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
6.3	47	11.9	0.30	100	6.3	11.2	2.5	0.6	P1101-ND	.47	.41	.32	.21	ECE-A0JN470S
	470	91.9	0.30	380	10	20	5	0.6	P1105-ND	1.09	.94	.74	.47	ECE-A0JN471S
	47	17.7	0.25	100	6.3	11.2	2.5	0.6	P1109-ND	.49	.42	.33	.21	ECE-A1AN470S
10	330	102.0	0.25	340	10	20	5	0.6	P1112-ND	.95	.82	.64	.41	ECE-A1AN331S
50	33	52.5	0.15	140	10	16	5	0.6	P1138-ND	.52	.49	.44	.38	ECE-A1HN330S

Panasonic KS Capacitors



Body dia. D	3	4	5	6.3	8
Lead dia. d	0.4	0.45	0.45	0.45	0.45
Lead space P	1.0	1.5	2.0	2.5	2.5

Features:

- Low profile 5mm height for Ø3 ~ Ø8 mm

Specifications:

• **Operating Temperature Range:** -40°C to +85°C • **Rated Working Voltage Range:** 4 to 50V DC • **Nominal Capacitance Range:** 0.1 to 330µF • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA), whichever is greater measured after 2 minutes application of rated working voltage at +20°C

Endurance:

• **Test Conditions — Duration:** 1000 hours • **Ambient Temperature:** +85°C • **Applied Voltage:** Rated DC working voltage • **Post Test Requirements at +20°C — Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value

Shelf Life:

• **Test Conditions — Duration:** 1000 hours • **Ambient Temperature:** +85°C • **Applied voltage:** (None) • **Post Test Requirements at +20°C — Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value

Panasonic KS Cross Reference:

Nippon Chemi-Con: SRE, Nichicon: MA, Elna: RC3, Rubycon: MS5, Marcon: LSM

Recommended Applications:

AV (TV, Audio, Video), Office, Home Appliance

Tan δ: (120Hz, +20°C)

Working voltage (V)	4	6.3	10	16	25	35	50
tan δ max.	0.35	0.24	0.20	0.16	0.14	0.12	0.10

Characteristics at Low Temperature: Impedance ratio max. at 120Hz

Working voltage (V)	4	6.3	10	16	25	35	50
-25°C/+25°C	7	4	3	2	2	2	2
-40°C/+20°C	15	8	6	4	4	3	3

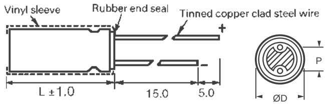
WV (VDC)	Cap. (µF)	D.C.L. (+20°C/2 min)	tan δ (120Hz/+20°C)	Ripple Current	Dim. (mm)			Digi-Key Part No.	Price Each			Panasonic Part No.
					ØD	L	P		10	100	1,000	
4	22	3.0	0.35	19	3	5	1.0	P950-ND	.20	.16	.09	ECE-A0GKK220
	33	3.0	0.35	26	4	5	1.5	P951-ND	.14	.11	.06	ECE-A0GKS330
	47	3.0	0.35	34	4	5	1.5	P952-ND	.14	.11	.06	ECE-A0GKS470
	100	4.0	0.35	61	5	5	2.0	P953-ND	.17	.13	.07	ECE-A0GKS101
	220	8.8	0.35	82	6.3	5	2.5	P954-ND	.20	.16	.09	ECE-A0GKS221
6.3	22	3.0	0.24	29	4	5	1.5	P955-ND	.14	.11	.06	ECE-A0JKS220
	33	3.0	0.24	38	5	5	2.0	P956-ND	.17	.13	.07	ECE-A0JKS330
	47	3.0	0.24	46	5	5	2.0	P957-ND	.17	.13	.07	ECE-A0JKS470
	100	6.3	0.24	71	6.3	5	2.5	P958-ND	.20	.16	.09	ECE-A0JKS101
	330	20.7	0.24	130	8	5	2.5	P959-ND	.32	.25	.14	ECE-A0JKS331
10	22	3.0	0.20	35	5	5	2.0	P960-ND	.17	.13	.07	ECE-A1AKS220
	33	3.3	0.20	43	5	5	2.0	P961-ND	.17	.13	.07	ECE-A1AKS330
	47	4.7	0.20	65	6.3	5	2.5	P962-ND	.20	.16	.09	ECE-A1AKS470
	100	10.0	0.20	80	6.3	5	2.5	P963-ND	.20	.16	.09	ECE-A1AKS101
	220	22.0	0.20	120	8	5	2.5	P964-ND	.36	.29	.16	ECE-A1AKS221
16	10	3.0	0.16	20	3	5	1.0	P965-ND	.20	.16	.09	ECE-A1CKK100
	10	3.0	0.16	28	4	5	1.5	P966-ND	.14	.11	.06	ECE-A1CKS100
	22	3.5	0.16	39	5	5	2.0	P967-ND	.17	.13	.07	ECE-A1CKS220
	33	5.2	0.16	60	6.3	5	2.5	P968-ND	.20	.16	.09	ECE-A1CKS330
	47	7.5	0.16	70	6.3	5	2.5	P969-ND	.20	.16	.09	ECE-A1CKS470
	100	16.0	0.16	91	8	5	2.5	P970-ND	.34	.27	.15	ECE-A1CKS101
25	2.2	3.0	0.14	8	3	5	1.0	P971-ND	.20	.16	.09	ECE-A1EKK2R2
	3.3	3.0	0.14	10	3	5	1.0	P972-ND	.20	.16	.09	ECE-A1EKK3R3
	4.7	3.0	0.14	12	3	5	1.0	P973-ND	.20	.16	.09	ECE-A1EKK4R7
	4.7	3.0	0.14	22	4	5	1.5	P974-ND	.14	.11	.06	ECE-A1EKS4R7
	10	3.0	0.14	28	5	5	2.0	P975-ND	.17	.13	.07	ECE-A1EKS100
	22	5.5	0.14	55	6.3	5	2.5	P976-ND	.20	.16	.09	ECE-A1EKS220
	33	8.2	0.14	65	6.3	5	2.5	P977-ND	.20	.16	.09	ECE-A1EKS330
35	3.3	3.0	0.12	16	4	5	1.5	P978-ND	.14	.11	.06	ECE-A1VKS3R3
	4.7	3.0	0.12	22	4	5	1.5	P979-ND	.14	.11	.06	ECE-A1VKS4R7
	10	3.5	0.12	30	5	5	2.0	P980-ND	.17	.13	.07	ECE-A1VKS100
	22	7.7	0.12	60	6.3	5	2.5	P981-ND	.20	.16	.09	ECE-A1VKS220
	33	11.6	0.12	65	8	5	2.5	P982-ND	.34	.27	.15	ECE-A1VKS330
	47	16.4	0.12	85	8	5	2.5	P983-ND	.35	.28	.15	ECE-A1VKS470
50	0.1	3.0	0.10	1	4	5	1.5	P984-ND	.14	.11	.06	ECE-A1HKS0R1
	0.1	3.0	0.10	1	3	5	1.0	P985-ND	.20	.16	.09	ECE-A1HKK0R1
	0.22	3.0	0.10	2	4	5	1.5	P986-ND	.14	.11	.06	ECE-A1HKSR22
	0.22	3.0	0.10	2	3	5	1.0	P987-ND	.20	.16	.09	ECE-A1HKKR22
	0.33	3.0	0.10	3	4	5	1.5	P988-ND	.14	.11	.06	ECE-A1HKSR33
	0.33	3.0	0.10	3	3	5	1.0	P989-ND	.20	.16	.09	ECE-A1HKKR33
	0.47	3.0	0.10	5	4	5	1.5	P990-ND	.14	.11	.06	ECE-A1HKSR47
	0.47	3.0	0.10	5	3	5	1.0	P991-ND	.20	.16	.09	ECE-A1HKKR47
	1.0	3.0	0.10	8	3	5	1.0	P992-ND	.20	.16	.09	ECE-A1HKK010
	1.0	3.0	0.10	10	4	5	1.5	P993-ND	.14	.11	.06	ECE-A1HKS010
	2.2	3.0	0.10	16	4	5	1.5	P994-ND	.14	.11	.06	ECE-A1HKS2R2
	3.3	3.0	0.10	16	4	5	1.5	P995-ND	.14	.11	.06	ECE-A1HKS3R3
	4.7	3.0	0.10	23	5	5	2.0	P996-ND	.17	.13	.07	ECE-A1HKS4R7
	10	5.0	0.10	35	6.3	5	2.5	P997-ND	.20	.16	.09	ECE-A1HKS100
	22	11.0	0.10	60	8	5	2.5	P998-ND	.30	.24	.13	ECE-A1HKS220

KA-Series Miniature Aluminum Electrolytic Capacitors

Rating		Dimensions (mm)			Digi-Key Part No.	Pricing						Panasonic Part No.
WV DC	µF	D	L	A		1	10	100	500	1,000	5,000	
6.3	22	4.0	7.0	1.5	P800-ND	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A0JKA220
	33	4.0	7.0	1.5	P801-ND	.30	1.93	13.02	44.10	67.00	57.00/M	ECE-A0JKA330
	47	4.0	7.0	1.5	P802-ND	.30	1.93	13.02	44.10	67.00	57.00/M	ECE-A0JKA470
	100	5.0	7.0	2.0	P803-ND*	.36	2.30	15.50	52.50	80.00	68.00/M	ECE-A0JKA101
	220	6.3	7.0	2.5	P829-ND	.37	2.50	17.60	60.80	96.00	83.00/M	ECE-A0JKA221
	330	8.0	7.0	3.5	P830-ND	.44	3.26	23.25	83.70	130.00	121.00/M	ECE-A0JKA331
10	22	4.0	7.0	1.5	P804-ND	.30	1.93	13.02	44.10	67.00	57.00/M	ECE-A1AKA220
	33	4.0	7.0	1.5	P805-ND	.30	1.93	13.02	44.10	67.00	57.00/M	ECE-A1AKA330
	47	5.0	7.0	2.0	P806-ND	.33	2.12	14.26	48.30	74.00	62.00/M	ECE-A1AKA470
	100	6.3	7.0	2.5	P831-ND	.33	2.26	15.95	55.10	87.00	75.00/M	ECE-A1AKA101
	220	8.0	7.0	3.5	P832-ND	.44	3.26	23.25	83.70	130.00	121.00/M	ECE-A1AKA221
16	10	4.0	7.0	1.5	P807-ND	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1CKA100
	22	4.0	7.0	1.5	P808-ND	.30	1.93	13.02	44.10	67.00	57.00/M	ECE-A1CKA220
	33	5.0	7.0	2.0	P809-ND*	.36	2.30	15.50	52.50	80.00	68.00/M	ECE-A1CKA330
	47	5.0	7.0	2.0	P810-ND*	.36	2.30	15.50	52.50	80.00	68.00/M	ECE-A1CKA470
	100	6.3	7.0	2.5	P833-ND	.37	2.50	17.60	60.80	96.00	83.00/M	ECE-A1CKA101
25	4.7	4.0	7.0	1.5	P812-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1EKA4R7
	10	4.0	7.0	1.5	P813-ND	.30	1.93	13.02	44.10	67.00	57.00/M	ECE-A1EKA100
	22	5.0	7.0	2.0	P814-ND	.33	2.12	14.26	48.30	74.00	62.00/M	ECE-A1EKA220
	33	6.3	7.0	2.5	P815-ND	.33	2.26	15.95	55.10	87.00	75.00/M	ECE-A1EKA330
	47	6.3	7.0	2.5	P834-ND	.37	2.50	17.60	60.80	96.00	83.00/M	ECE-A1EKA470
35	4.7	4.0	7.0	1.5	P817-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1VKA4R7
	10	5.0	7.0	2.0	P818-ND*	.33	2.12	14.26	48.30	74.00	62.00/M	ECE-A1VKA100
	22	6.3	7.0	2.5	P819-ND*	.33	2.26	15.95	55.10	87.00	75.00/M	ECE-A1VKA220
	33	6.3	7.0	2.5	P835-ND	.37	2.50	17.60	60.80	96.00	83.00/M	ECE-A1VKA330
	47	8.0	7.0	3.5	P836-ND	.44	3.26	23.25	83.70	130.00	121.00/M	ECE-A1VKA470
50	0.1	4.0	7.0	1.5	P820-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1HKA0R1
	0.22	4.0	7.0	1.5	P821-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1HKAR22
	0.33	4.0	7.0	1.5	P822-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1HKAR33
	0.47	4.0	7.0	1.5	P823-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1HKAR47
	1.0	4.0	7.0	1.5	P824-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1HKA010
	2.2	4.0	7.0	1.5	P825-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1HKA2R2
	3.3	4.0	7.0	1.5	P826-ND*	.28	1.79	12.09	40.95	62.00	53.00/M	ECE-A1HKA3R3
	4.7	4.0	7.0	1.5	P827-ND*	.30	1.93	13.02	44.10	67.00	57.00/M	ECE-A1HKA4R7
	10	5.0	7.0	2.0	P828-ND*	.36	2.30	15.50	52.50	80.00	68.00/M	ECE-A1HKA100
	22	6.3	7.0	2.5	P837-ND	.37	2.50	17.60	60.80	96.00	83.00/M	ECE-A1HKA220
	33	8.0	7.0	3.5	P838-ND	.44	3.26	23.25	83.70	130.00	121.00/M	ECE-A1HKA330

*** P835-KIT-ND** ***Digi-Key® KA-Series Capacitors Kit*** 10 each of parts indicated. (160 total pieces) Notebook style storage case **$29.95**

The KA-Series is a tantalum substitute for many applications.



- **Operating Temperature Range:** –40°C to +85°C.
- **Rated DC Voltage Range:** 6.3 to 63VDC.
- **Rated Capacitance Range:** 1.0 to 100µF.
- **Capacitance Tolerance:** ±20%.
- **tan ∂:** Max. at 120Hz.

W.V.	6.3	10	16	25	35	50	63
tan	0.24	0.2	0.16	0.14	0.12	0.10	0.08

- **DC Leakage Current, Max.:** After 5 minutes application of the DC working voltage, I=0.01 C V or 3µA, whichever is greater.
- **Load Life:** 1,000 hours application of the rated DC working voltage at +85°C, the capacitor shall meet the following limits:

Capacitance Change	Within ±20% of the initial measured value
tan δ	Less than 200% of the initial specified value
DC Leakage Current	Less than the initial specified value

- **Stability at Low and High Temperature:** Impedance ratio at 120Hz –25/20°C, –40/20°C.

W.V.	6.3	10	16	25	35	50
–25/20°C	4	3	2	2	2	2
–40/20°C	8	6	4	4	3	3

- **Shelf Life:** After 1,000 hours storage without load at +85°C, the capacitor shall meet the above "Load life."
- **Others shall be in accordance with JIS-C-5141 (1976).**

PANASONIC K CROSS REFERENCES:

Elna: RC2, **IC:** RSS, **Marcon:** SSM, **Nichicon:** SR/SA, **Rubycon:** MS7, **UCC:** SRG/SRA

Panasonic® KG-Series Miniature Aluminum Electrolytic Capacitors 105°C

WV DC	Cap. µF	Size Code	Digi-Key Part No.	Pricing						Panasonic Part No.
				1	10	100	500	1,000	5,000	
6.3	22	A	P900-ND	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A0JKG220
	33	B	P901-ND	.32	1.68	11.83	40.85	65.00	56.00/M	ECE-A0JKG330
	47	B	P902-ND	.33	1.68	11.83	40.85	65.00	56.00/M	ECE-A0JKG470
	68	C	P903-ND	.36	2.22	15.68	54.15	86.00	74.00/M	ECE-A0JKG680
	100	C	P904-ND•	.42	2.22	15.68	54.15	86.00	74.00/M	ECE-A0JKG101
	220	D	P941-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A0JKG221
10	22	A	P905-ND	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1AKG220
	33	B	P906-ND	.35	1.68	11.83	40.85	65.00	56.00/M	ECE-A1AKG330
	47	C	P907-ND	.37	2.22	15.68	54.15	86.00	74.00/M	ECE-A1AKG470
	68	C	P908-ND	.42	2.22	15.68	54.15	86.00	74.00/M	ECE-A1AKG680
	100	C	P942-ND	.42	2.00	14.25	51.30	80.00	74.00/M	ECE-A1AKG101
16	6.8	A	P909-ND	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1CKG6R8
	10	A	P910-ND	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1CKG100
	15	A	P911-ND	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1CKG150
	22	B	P912-ND	.35	1.68	11.83	40.85	65.00	56.00/M	ECE-A1CKG220
	33	C	P913-ND•	.39	2.22	15.68	54.15	86.00	74.00/M	ECE-A1CKG330
	47	C	P914-ND•	.40	2.22	15.68	54.15	86.00	74.00/M	ECE-A1CKG470
	68	D	P943-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A1CKG680
	100	D	P944-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A1CKG101
25	6.8	A	P915-ND•	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1EKG6R8
	10	A	P916-ND•	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1EKG100
	15	B	P917-ND	.35	1.68	11.83	40.85	65.00	56.00/M	ECE-A1EKG150
	22	B	P918-ND•	.36	1.68	11.83	40.85	65.00	56.00/M	ECE-A1EKG220
	33	C	P919-ND	.44	2.22	15.68	54.15	86.00	74.00/M	ECE-A1EKG330
	47	D	P945-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A1EKG470
	68	D	P946-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A1EKG680
35	4.7	A	P920-ND•	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1VKG4R7
	6.8	A	P921-ND	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1VKG6R8
	10	B	P922-ND•	.34	1.68	11.83	40.85	65.00	56.00/M	ECE-A1VKG100
	15	C	P923-ND	.44	2.22	15.68	54.15	86.00	74.00/M	ECE-A1VKG150
	22	C	P924-ND•	.45	2.22	15.68	54.15	86.00	74.00/M	ECE-A1VKG220
	33	D	P947-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A1VKG330
	47	D	P948-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A1VKG470
50	0.1	A	P925-ND•	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKG0R1
	0.15	A	P926-ND	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKGR15
	0.22	A	P927-ND•	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKGR22
	0.33	A	P928-ND•	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKGR33
	0.47	A	P929-ND•	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKGR47
	0.68	A	P930-ND	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKGR68
	1	A	P931-ND•	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKG010
	1.5	A	P932-ND	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKG1R5
	2.2	A	P933-ND•	.30	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKG2R2
	3.3	A	P934-ND•	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKG3R3
	4.7	A	P935-ND•	.32	1.48	10.45	36.10	57.00	49.00/M	ECE-A1HKG4R7
	6.8	B	P936-ND	.35	1.68	11.83	40.85	65.00	56.00/M	ECE-A1HKG6R8
	10	C	P937-ND•	.45	2.22	15.68	54.15	86.00	74.00/M	ECE-A1HKG100
	15	C	P938-ND	.46	2.22	15.68	54.15	86.00	74.00/M	ECE-A1HKG150
	22	D	P939-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A1HKG220
	33	D	P940-ND	.62	2.98	21.25	76.50	119.00	111.00/M	ECE-A1HKG330

The KG-Series is a tantalum substitute for many applications.

Features: • Height is 7mm. • Anti-solvent in Freon.

Operating Temperature Range: –55°C to +105°C.

Capacitance Tolerance: ±20% at 120Hz, +20°C.

DC Leakage Current: I◀0.01CV or 3[µA] after 2 min. (whichever is greater).

tan δ (120Hz/120°C):

W.V.	6.3	10	16	25	35	50
tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10

Low Temperature Impedance Stability at 120Hz:

W.V.	6.3	10	16	25	35	50
Z(−25°C)/Z(+20°C)	3	2	2	2	2	2
Z(−40°C)/Z(+20°C)	6	5	3	3	3	3
Z(−55°C)/Z(+20°C)	8	6	4	4	4	4

Load Life: After 1,000 hours application of DC rated working voltage at +105°C, the capacitor shall meet the following limits.

Capacitance change: < ±20% of the initial measured value.

tan ∂: < 200% of the initial specified value.

DC leakage current: < the initial specified value.

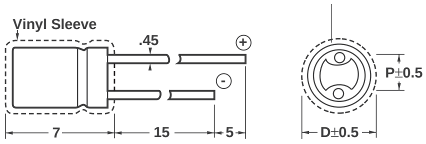
Anti-solvent: Can withstand circuit-board cleaning within 5 minutes in Freon TE, TES, or TP-35 at +40°C by dipping, steaming, or ultrasonic.

unit: in (mm)

Size Code	Body Dia. D	x	Body Length L
A	.157 (4)	x	.276 (7)
B	.197 (5)	x	.276 (7)
C	.248 (6.3)	x	.276 (7)
D	.315 (8)	x	.276 (7)

(mm)

Body Dia. ØD	4	5	6.3	8
Lead Space P	1.5	2	2.5	3.5



• **P900-KIT-ND** ***Digi-Key® KG-Series Capacitors Kit*** 10 each of parts indicated. (180 pieces total) Notebook style storage case. **$34.95**

COOPER Bussmann

PowerStor® Aerogel Supercapacitors

Fig. 1

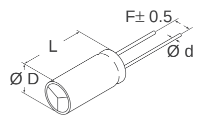
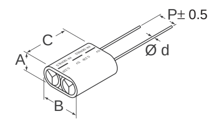


Fig. 2



PowerStor Design Kits

High power design kit for pulse and
bridge power applications.
PowerStor reference number PS-5903
4 Each of values indicated with •

283-2517-ND **$90.00**

High power design kit for bridge
power and memory backup applications
PowerStor reference number PS-5904
6 Each of values indicated with **x**,
plus 4 Each of values indicated with ▲

283-2518-ND **$90.00**

High energy design kit for bridge,
pulse and main power applications
PowerStor reference number PS-5905
6 Each of values indicated with **+**

283-2519-ND **$90.00**

The PowerStor Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. Aerogel capacitors are similar to ultracapacitors and electrochemical double layer capacitors (EDLCs) and gold capacitors with the added benefit of low ESR. Temperature range: -25°C to + 70°C

A Series — *Features:* • Ultra low ESR • Low leakage current • Long cycle life • High useable capacity • 2.5VDC working voltage can be configured in series for higher voltage applications

Applications: • Pulse power • Hold-up power • DC/DC converters • Hybrid battery packs • Valve and solenoid actuation

B Series — *Features:* • Higher energy density • Very low ESR • Low leakage currents • Long cycle life • 2.5VDC working voltage can be configured in series for higher voltage applications

Applications: • Main power • Hybrid battery packs • Hold-up power • Pulse power

P Series — *Features:* • Available in an ultra-low ESR version, PA or a low ESR but higher energy density version (PB) • 5.0VDC working voltage.

Applications: PB Series: • Memory, microprocessor or RTC backup
PA Series: • Pulse power • Hybrid battery packs • Hold-up power

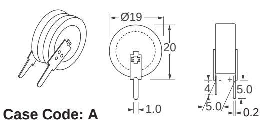
Working Voltage (DC)	Capac-itance (F)	Nominal Internal Series Res. at 1KHz (Ω)	Dimensions (mm)				Digi-Key Part No.	Price Each			Cooper/ Bussmann Part No.
			D	L	d (±0.02)	F (±0.5)		1	10	100	
Fig. 1 — A Series Supercapacitors											
2.5	.47	.150	8.5	21.0	.50	3.5	283-2497-ND•	2.40	2.20	1.80	A0820-2R5474
	1	.090	10.5	22.3	.60	5.0	283-2498-ND•	4.14	3.80	3.11	A1020-2R5105
	1.5	.060	10.5	31.5	.60	5.0	283-2499-ND•	5.70	5.23	4.28	A1030-2R5155
	4.7	.025	16.5	38.0	.80	7.5	283-2500-ND•	9.00	8.25	6.75	A1635-2R5475
Fig. 1 — B Series Supercapacitors											
2.5	.22	3.00	5.5	12.0	.50	2.0	283-2501-NDx	1.80	1.65	1.35	B0510-2R5224
	1	.400	8.5	13.5	.50	3.5	283-2502-NDx	2.70	2.48	2.03	B0810-2R5105
	1.5	.300	10.5	14.4	.60	5.0	283-2503-NDx	3.45	3.17	2.59	B1010-2R5155
	2.2	.200	8.5	21.0	.50	3.5	283-2504-ND▲	3.60	3.30	2.70	B0820-2R5225
	3.3	.150	10.5	22.3	.60	5.0	283-2505-ND▲+	4.14	3.80	3.11	B1020-2R5335
	4.7	.150	8.5	31.0	.50	3.5	283-2506-ND+	4.47	4.10	3.36	B0830-2R5475
	6.8	.100	10.5	31.5	.60	5.0	283-2507-ND+	4.83	4.43	3.63	B1030-2R5685
	10	.060	13.5	28.4	.60	5.0	283-2508-ND+	5.52	5.06	4.14	B1325-2R5106
	22	.040	16.5	38.0	.80	7.5	283-2509-ND	10.78	8.87	6.95	B1635-2R5226
	33	.030	18.5	38.0	.80	7.5	283-2510-ND	13.88	11.42	8.95	B1835-2R5336
	50	.025	18.5	42.0	.80	7.5	283-2511-ND	17.19	14.14	11.08	B1840-2R5506

Working Voltage (DC)	Capac-itance (F)	Nominal Internal Series Res. at 1KHz (Ω)	Dimensions (mm)					Digi-Key Part No.	Price Each			Cooper/ Bussmann Part No.
			A	B	C	d (±0.02)	P(±0.5)		1	10	100	
Fig. 2 — P Series Supercapacitors												
5.0	.10	10.0	5.5	10.8	12.5	.5	7.3	283-2512-ND▲	2.10	1.93	1.58	PB-5R0V104
	.47	2.00	8.5	16.8	12.5	.5	11.8	283-2513-ND▲	2.70	2.48	2.03	PB-5R0V474
	1.0	1.00	8.5	16.8	21.5	.5	11.8	283-2514-ND▲	3.78	3.47	2.84	PB-5R0V105
	.22	.300	8.5	16.8	21.5	.5	11.8	283-2515-ND•	2.58	2.37	1.94	PA-5R0V224
	.47	.200	10.5	20.8	21.5	.6	5.3	283-2516-ND•	4.47	4.10	3.36	PA-5R0V474

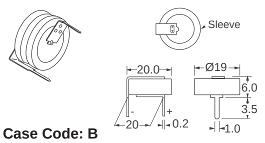
Panasonic

SG Series Gold Capacitors

Electric Double Layer Capacitors



Case Code: A



Case Code: B

Specifications:

Operating Temp. Range:	-25 to +70°C
Rated Working Voltage:	5.5V DC
Nom. Capacitance Range:	0.022F to 1.0F (+20°C)
Capacitance Tolerance:	-20% to +80%

Temperature Characteristics:

Capacitance Change -25°C & 70°C:	≤±30% at 20°C
Internal Resistance −25°C:	≤5X at 20°C
Inflow Current at 70°C:	≤4X at 20°C

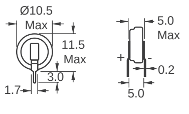
Load Life Characteristics:
(after 1000 hrs. with rated voltage of 5.5V DC applied at 70°C.)

Capacitance Change:	≤±30% of initial measured value
Internal Resistance:	≤4X of initial specified value
Inflow Current:	≤2X of initial specified value

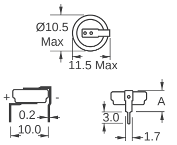
Case Code	WV DC	Nom. Cap. (F)	Internal Resist. Ω (1KHz)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
Vertical									
A	5.5	0.47	30	P6974-ND	6.64	5.29	4.15	2.66	EEC-S5R5V474
A	5.5	1.0	30	P6975-ND	6.64	5.29	4.15	2.66	EEC-S5R5V105
B	5.5	1.5	30	P11343-ND	7.64	6.08	4.76	3.05	EEC-S5R5V155
Horizontal									
B	5.5	0.47	30	P6980-ND	6.64	5.29	4.15	2.66	EEC-S5R5H474
B	5.5	1.0	30	P6981-ND	6.64	5.29	4.15	2.66	EEC-S5R5H105
B	5.5	1.5	30	P11342-ND	7.64	6.08	4.76	3.05	EEC-S5R5H155

SD Series Gold Capacitors

Electric Double Layer Capacitors



Vertical



Horizontal

Features: • 30% smaller than SG series • Terminal solderability 95% • Longer life than a secondary battery • Best choice for µA range IC memory back-up

Specifications:

Operating Temperature Range:	-25 to +70°C
Rated Working Voltage:	5.5V DC
Capacitance Tolerance:	-20% to +80%

Temperature Characteristics:

Capacitance Change -25°C & 70°C:	≤±30% at 20°C
Internal Resistance −25°C:	≤5X at 20°C

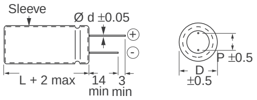
Endurance:
(after 1000 hrs. w/ rated volt. of 5.5V DC applied at 70°C.)

Capacitance Change:	±30% of initial measured value
Internal Resistance:	≤ 4 times the initial specified value

WV DC	Nom. Cap. (F)	Internal Resist. Ω (1KHz)	Dim. A mm (max.)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
Vertical									
5.5	0.022	≤150	—	P10789-ND	2.70	1.80	1.41	.91	EEC-S0HD223V
	0.047	≤120	—	P10790-ND	2.89	1.94	1.52	.97	EEC-S0HD473V
	0.10	≤75	—	P10791-ND	2.89	1.94	1.52	.97	EEC-S0HD104V
	0.22	≤75	—	P10792-ND	3.16	2.10	1.65	1.06	EEC-S0HD224V
	0.33	≤75	—	P11065-ND	2.91	2.23	1.75	1.12	EEC-S0HD334V
Horizontal									
5.5	0.022	≤150	5.5	P10785-ND	2.70	1.80	1.41	.91	EEC-S0HD223H
	0.047	≤120	5.5	P10786-ND	2.89	1.94	1.52	.97	EEC-S0HD473H
	0.10	≤75	5.5	P10787-ND	2.89	1.94	1.52	.97	EEC-S0HD104H
	0.22	≤75	6.0	P10788-ND	3.16	2.10	1.65	1.06	EEC-S0HD224H
	0.33	≤75	6.5	P11064-ND	2.91	2.23	1.75	1.12	EEC-S0HD334H

HW Series Gold Capacitors

Electric Double Layer Capacitors



Specifications:

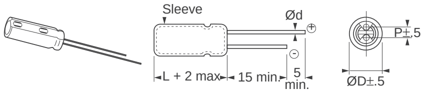
Operating Temperature Range:	-25°C to +60°C
Rated Working Voltage:	2.3V DC
Terminal Polarity:	(—) Negative
Capacitance Range:	40°F to 70°F
Self Discharge:	0.2 V.DC or Less

Dimensions (mm) øD	L	ød	P	WV DC	Nom. Cap. (F)	Internal Resist. Ω (1KHz)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
12.5	23	0.8	5.0	2.3	4.7	0.3	P11344-ND	3.64	3.13	2.45	1.57	EEC-HW0D475
12.5	35	0.8	5.0	2.3	10.0	0.2	P11345-ND	4.72	4.05	3.17	2.03	EEC-HW0D106
18.0	35	0.8	7.5	2.3	22.0	0.1	P11346-ND	8.11	6.95	5.45	3.49	EEC-HW0D226
18.0	40	0.8	7.5	2.3	50.0	0.1	P11066-ND	10.26	8.80	6.89	4.41	EEC-HW0D506

Warning: If the voltage balance beaks down, an over voltage condition could result. To prevent this from occurring, add a voltage dividing resistor in parallel with each capacitor, allowing for the capacitor's leakage current.

AL Series Gold Capacitors

Electric Double Layer Capacitors



Specifications:

Operating Temp. Range:	-25 to +70°C
Rated Working Voltage:	2.5V DC
Nom. Capacitance Range:	0.22F to 10F (+20°C)
Capacitance Tolerance:	-20% to +80%

Temperature Characteristics:

Capacitance Change -25°C & 70°C:	≤±30% at 20°C
Internal Resistance −40°C:	≤3X at 20°C
Inflow Current at 70°C:	≤3X at 20°C

Load Life Characteristics:
(after 1000 hrs. with rated voltage of 2.5V DC applied at 70°C.)

Capacitance Change:	≤±30% of initial measured value
Internal Resistance:	≤2X of initial specified value
Inflow Current:	≤2X of initial specified value

Shelf Life: The capacitor shall meet the limits for "High Temperature Loading" after 1,000 hours exposure at +70°C with no voltage applied.

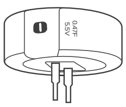
Loading with Moisture: The capacitor shall meet the limits for "High Temperature Loading" after 500 hours exposure at +55°C/90 to 95%RH with 2.5V DC applied.

WV DC	Capacitance (F)	Inflow Current* (mA)	Internal Resist. Ω (1KHz)	Dimensions (mm) øD	L	ød	P	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
2.5	1.0	0.18	1.0	8.0	22	0.7	3.5	P6963-ND	4.15	3.21	2.52	1.61	EEC-A0EL105
	3.3	0.30	0.3	12.5	23	0.8	5.0	P6966-ND	5.22	4.04	3.17	2.03	EEC-A0EL335
	4.7	0.44	0.2	12.5	35	0.8	5.0	P6967-ND	6.11	4.73	3.71	2.37	EEC-A0EL475
	10	0.60	0.1	18.0	35	0.8	7.5	P6969-ND	8.71	7.43	5.82	3.73	EEC-A0EL106

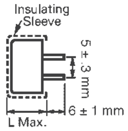
* Inflow current is measured after 90 minutes application of rated working voltage. In use, current will decrease to several µA level after approx. 10 hrs. application of rated working voltage.

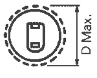
NF Series Gold Capacitors

Wet Type Electric Double Layer Capacitors



P6951-P11063





Gold capacitors provide super large capacitance by unique electrode and miniaturization technology meeting the trend of compactness. Suitable for a memory back-up for CMOS type RAM in microcomputers.

Features:

- A long period memory backup is available by excellent self-discharging characteristics.
- Low profile design is 9.5 mm maximum in height and has a standardized 5 mm terminal spacing.
- Superior to primary or second-ary batteries in operating temperature range, charge/ discharge characteristics, long time reliability and performance stability.

Specifications:

Operating Temp. Range:	−25° ~ +70°C
Surge Voltage:	6.3 VDC
Capacitance Tolerance:	−20 ~ +80%

Temperature Characteristics:

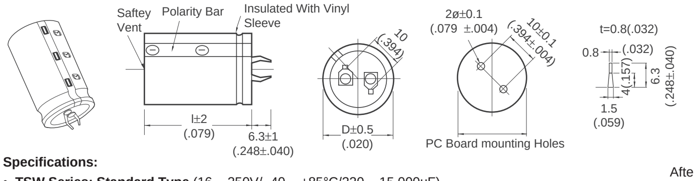
Capacitance Change:	±30% at 20°C
Internal Resistance −25°C:	less than 5x at 20°C
Leakage Current at 70°C:	less than 4x at 20°C

Load Life Char.: (after 1000 hrs. with rated voltage applied at 70°C.)

Capacitance Change:	±30%
Internal Resistance:	less than 4x
Leakage Current:	less than 2x

WV DC	Cap. Farads	Capacitance Range	Inflow Current µA (30 min.)	Internal Resist. V (1KHz)	Dim. (mm) L	D	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
5.5	0.047	0.0376 ~ 0.0846	69	120	7.5	13.5	P6951-ND	2.91	2.50	1.96	1.25	EEC-F5R5U473
	0.1	0.08 ~ 0.18	100	75	7.5	13.5	P6952-ND	3.12	2.22	1.74	1.12	EEC-F5R5U104
	0.47	0.376 ~ 0.846	216	30	8.0	21.5	P6954-ND	7.11	5.34	4.18	2.68	EEC-F5R5U474
	1.0	0.8 ~ 1.8	315	30	8.0	21.5	P6955-ND	7.11	5.34	4.18	2.68	EEC-F5R5U105
	1.5	1.2 ~ 2.7	385	30	8.0	21.5	P11063-ND	8.08	5.87	4.60	2.95	EEC-F5R5U155

Panasonic® TS-Series Large Aluminum Electrolytic Capacitors



Specifications:

- **TSW Series: Standard Type** (16 ~ 250V/ -40 ~ +85°C/220 ~ 15,000µF)
- **TSU Series: Miniaturized Type** (16 ~ 250V/ -40 ~ +85°C/220 ~ 47,000µF)
  (400 ~ 450V/ -25 ~+ 85°C/68 ~ 330µF)
- **TSUP Series: Large Can Type** (16 ~ 250V/ -40 ~ +85°C/180 ~ 68,000µF)
- **TSNH Series: 105°C Type** (16 ~ 100V/ -40 ~ +105°C/470 ~ 33,000µF)
- **TSHA Series: Large Can Type** (10 ~ 250V/ -40 ~ +105°C/180 ~ 68,000µF)
- **TSHB Series: Large Can Type** (200 ~ 450V/ -40 ~ +105°C/82 ~ 2,200µF)
- **TSED Series: Large Can Type** (200 ~ 250V/ -40~ + 105°C/220 ~ 2,200µF)
  (400 ~ 450V/ -25 ~ +105°C/56 ~ 560µF)
- **TSHC Series: Large Can Type** (160 ~ 250V/ -40 ~ +105°C/270~ 3,300µF)
  (350 ~ 450V/ -25 ~ +105°C/100 ~ 820µF)
- **TSUQ Series: Large Can Type** (160 ~ 250V/ -40 ~ +85°C/270 ~ 3,900µF)
  (350 ~ 450V/ -25 ~ + 85°C/82 ~ 1,000µF)

- **Capacitance Tolerance (at 120Hz):**

Type:	**TSW**	**TSU**	**TSUP**	**TSNH**	**TSHA**	**TSHB**	**TSED**	**TSHC**	**TSUQ**
Tol.:	–10 ~ +30%	±20%	±20%	±20%	±20%	±20%	±20%	±20%	±20%

Surge Voltage & Surge Voltage Test: The DC surge voltage is the maximum voltage to which the capacitor should be subjected. The surge voltage listed below is applied in series with a 1,000 ohm resistor at a cycle of 0.5 minutes “ON” and 4.5 minutes “OFF”, repeated 1,000 times at 25°C.

Rated DC Voltage:	16	25	35	50	63	100	160	200	250	350	400	450
Surge Voltage:	20	32	44	63	79	125	200	250	300	400	450	500

CROSS REFERENCES

PANASONIC TSU
Elna: LP; **Marcon:** FTW/FHW; **Nichicon:** UB/PS; **Rubycon:** LP/RP; **Sprague:** 80D; **UCC:** NMA.

PANASONIC TSUP
Matsushita: TSUP; **Nichichemi:** SMH; **Nichicon:** LQ; **Rubycon:** USP; **Marcon:** DWF & CEFHW; **UCC:** SMH; **Sprague:** 82D; **ICI:** LPR/LUG; **Mepco:** 3487.

PANASONIC TSNH
Elna: LPS/LPJ; **Marcon:** FTU/FHU; **Nichicon:** GH/GL/GM; **Rubycon:** XLP/XRP; **Sprague:** 81D; **UCC:** KM.

PANASONIC TSHA
Matsushita: TSHA; **Nichichemi:** KMH; **Nichicon:** GQ; **Rubycon:** MXP; **Marcon:** DUF & CEFHU; **UCC:** KMH; **Sprague:** 81D; **Mepco:** 3488.

After the test, the capacitor shall meet the following limits: Capacitance change of ±20% of initial measured value; DC leakage current less than initial limits; and D.F. less than 150% of initial limits.

Ripple Voltage: The sum of the DC voltage plus the AC peak ripple voltage shall not exceed the rated DC voltage and there shall be no application of reversed voltage.

Ripple Current (mA):

Frequency (Hz):	**50Hz**	**60Hz**	**120Hz**	**500Hz**	**1KHz**	**10 ~ 50KHz**
16V ~ 100V:	0.93	0.95	1.0	1.05	1.06	1.15
160V ~ 450V:	0.75	0.8	1.0	1.2	1.25	1.4

D.C. Leakage Current:
Measurements shall be made at rated working voltage at 20°C. The voltage shall be applied to the capacitor for a minimum period of 5 minutes before reading the leakage current. Maximum leakage current shall not exceed the value given by the following formula: 16 ~ 100V: in case of C X V = 100,000µFV I = 0.01CVµA max. in case of C X V = 100,000µFV I = 3 v C x VµA max. 160 ~ 450V: 1 = 3 v C x VµA max. where I = leakage current in mA, C = rated capacitance in µF V = DC rated WV in volts.

Load Life Test:
The capacitor shall be subjected to application of the DC rated voltage with full rated ripple current in the specified ambient temperature for the specified life period. The capacitor shall then be removed from the test chamber and stabilized at room temperature. After reaching temperature stability; the capacitor shall not exceed the following specified values listed: Capacitance change within ±20% of the initial measured value. D.F. 150% of the initial limits. DC leakage current ≤5 initial limit

W.V. DC	Cap. (µF)	Max. DC (mA) Leakage Current	85° (rms) Ripple Current (120Hz) A	Dimensions (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
TSW General Purpose +85°C (Not recommended for new design. Use TSU/TSUP series)											
35	1000	0.35	1.35	22	25	P6511-ND	1.90	1.53	1.26	.82	ECE-T35R102SW
TSU General Purpose +85°C, 2000 Hour Life											
16	4700	0.75	2.0	22	25	P6445-ND	2.54	2.04	1.68	1.09	ECE-S1CU472D
	6800	0.98	2.3	22	31.5	P6446-ND	3.13	2.51	2.06	1.35	ECE-S1CU682E
	22000	1.77	4.6	25	50	P6420-ND	5.19	4.26	3.58	2.50	ECE-S1CU223N
25	3300	0.82	2.0	22	25	P6448-ND	3.11	2.49	2.05	1.34	ECE-S1EU332D
	4700	1.02	2.0	22	31.5	P6449-ND	3.09	2.48	2.04	1.33	ECE-S1EU472E
	6800	1.23	2.9	22	40	P6475-ND	3.12	2.56	2.15	1.50	ECE-S1EU682G
	10000	1.6	3.4	25	40	P6480-ND	3.85	3.16	2.65	1.85	ECE-S1EU103M
	22000	2.22	5.3	30	50	P6423-ND	6.24	5.28	4.56	3.42	ECE-S1EU223U
35	3300	1.01	2.2	22	40	P6482-ND	3.26	2.61	2.14	1.40	ECE-S1VU332E
	4700	1.21	2.5	22	40	P6483-ND	3.45	2.77	2.27	1.48	ECE-S1VU472G
	6800	1.46	3.0	25	40	P6484-ND	3.85	3.16	2.65	1.85	ECE-S1VU682M
	10000	1.77	3.8	30	40	P6485-ND	4.85	3.98	3.34	2.33	ECE-S1VU103T
	15000	2.17	4.7	30	50	P6425-ND	5.58	4.72	4.08	3.06	ECE-S1VU153U
50	2200	0.99	1.9	22	31.5	P6486-ND	3.19	2.56	2.10	1.37	ECE-S1HU222E
	3300	1.21	2.2	22	40	P6487-ND	3.46	2.78	2.28	1.49	ECE-S1HU332G
	4700	1.45	2.7	25	40	P6488-ND	3.76	3.09	2.60	1.81	ECE-S1HU472M
	6800	1.74	3.3	30	40	P6489-ND	5.04	4.13	3.47	2.42	ECE-S1HU682T
	10000	2.12	4.3	30	50	P6427-ND	5.78	4.89	4.23	3.17	ECE-S1HU103U
	15000	2.59	4.7	35	51	P6428-ND	7.72	6.66	5.85	4.61	ECE-S1HU153Z
63	1000	0.63	1.5	22	25	P6490-ND	3.28	2.63	2.16	1.41	ECE-S1JU102D
	2200	1.11	1.9	22	40	P6491-ND	3.27	2.68	2.25	1.57	ECE-S1JU222G
	3300	1.36	2.4	25	40	P6492-ND	4.20	3.45	2.90	2.02	ECE-S1JU332M
	4700	1.63	2.9	25	50	P6493-ND	5.29	4.34	3.65	2.54	ECE-S1JU472N
	6800	1.96	3.8	30	50	P6494-ND	6.00	5.08	4.39	3.29	ECE-S1JU682U
	10000	2.38	4.2	35	51	P6495-ND	7.78	6.71	5.90	4.64	ECE-S1JU103Z
100	3300	1.72	3.0	30	50	P6429-ND	7.65	6.48	5.59	4.20	ECE-S2AU332U
	4700	2.05	3.4	35	51	P6430-ND	9.25	7.98	7.01	5.52	ECE-S2AU472Z
200	220	0.62	1.15	22	31.5	P6540-ND	3.21	2.57	2.11	1.38	ECE-S2DU221E
	470	0.91	1.7	25	40	P6542-ND	4.02	3.30	2.77	1.93	ECE-S2DU471M
	680	1.10	2.15	30	40	P6544-ND	5.46	4.48	3.76	2.62	ECE-S2DU681T
250	330	0.86	1.4	25	40	P6549-ND	4.27	3.51	2.95	2.05	ECE-S2EU331M
	470	1.02	1.7	30	40	P6551-ND	5.73	4.70	3.95	2.75	ECE-S2EU471T
	680	1.23	2.15	30	50	P6553-ND	6.24	5.28	4.56	3.42	ECE-S2EU681U
	1000	1.5	2.8	35	51	P6431-ND	8.09	6.85	5.92	4.44	ECE-S2EU102Z
400	68	0.49	.44	25	25	P6432-ND	3.09	2.54	2.13	1.49	ECE-S2GU680J
	100	0.6	.59	25	31.5	P6433-ND	3.73	3.06	2.57	1.79	ECE-S2GU101K
	100	0.60	.59	22	40	P6533-ND	3.57	2.93	2.46	1.71	ECE-S2GU101G
	220	0.88	.95	30	40	P6435-ND	5.41	4.58	3.96	2.97	ECE-S2GU221T
450	47	0.43	.37	25	25	P6438-ND	3.12	2.56	2.15	1.50	ECE-S2WU470J
	100	0.63	.66	30	31.5	P6440-ND	4.84	3.97	3.33	2.32	ECE-S2WU101R
	220	0.94	1.2	35	40	P6442-ND	6.94	5.88	5.08	3.81	ECE-S2WU221Y
	330	1.15	1.4	35	51	P6443-ND	8.30	7.16	6.29	4.95	ECE-S2WU331Z
TSUP Miniaturized Size General Purpose +85°C, 3000 Hour Life†											
16	4700	0.82	1.77	22	25	P7345-ND	2.20	1.86	1.34	1.01	ECO-S1CP472BA
	6800	0.98	3.15	20	25	P6858-ND	2.99	2.45	1.72	1.20	ECO-S1CP682AA
	6800	0.98	2.57	22	25	P7346-ND	2.39	2.03	1.46	1.10	ECO-S1CP682BA
	8200	1.08	3.47	20	30	P6859-ND	3.14	2.58	1.80	1.26	ECO-S1CP822AA
	8200	1.08	3.10	22	25	P7347-ND	2.50	2.12	1.53	1.15	ECO-S1CP822BA
16	10000	1.20	3.78	20	35	P6860-ND	3.34	2.74	1.92	1.34	ECO-S1CP103AA
	10000	1.20	3.78	25	25	P6861-ND	3.78	3.03	2.07	1.35	ECO-S1CP103CA
	12000	1.31	4.52	20	35	P6862-ND	3.47	2.85	2.00	1.39	ECO-S1CP123AA
	12000	1.31	4.52	25	25	P6863-ND	3.50	2.88	2.01	1.40	ECO-S1CP123CA
16	15000	1.46	5.26	20	40	P6864-ND	3.79	3.11	2.18	1.52	ECO-S1CP153AA
	15000	1.46	5.26	25	30	P6865-ND	3.81	3.13	2.19	1.53	ECO-S1CP153CA
	18000	1.60	5.57	22	40	P6866-ND	3.94	3.23	2.26	1.58	ECO-S1CP183BA
	18000	1.60	5.57	25	30	P6867-ND	4.00	3.29	2.30	1.60	ECO-S1CP183CA
	22000	1.77	6.10	22	45	P6868-ND	4.38	3.60	2.52	1.76	ECO-S1CP223BA
	22000	1.77	6.10	30	30	P6869-ND	4.84	3.97	2.78	1.94	ECO-S1CP223DA
	27000	1.97	6.31	25	45	P6870-ND	5.13	4.21	2.95	2.06	ECO-S1CP273CA
	27000	1.97	6.31	30	35	P6871-ND	5.38	4.41	3.09	2.15	ECO-S1CP273DA
	33000	2.17	6.84	25	50	P6872-ND	4.82	4.09	2.94	2.21	ECO-S1CP333CA
	33000	2.17	6.84	35	30	P6873-ND	5.47	4.63	3.33	2.50	ECO-S1CP333EA
	39000	2.36	6.94	30	45	P6874-ND	5.75	4.87	3.51	2.63	ECO-S1CP393DA
	39000	2.36	6.94	35	35	P6875-ND	6.03	5.11	3.68	2.76	ECO-S1CP393EA
	47000	2.60	7.47	30	50	P6876-ND	6.34	5.37	3.87	2.90	ECO-S1CP473DA
	47000	2.60	7.47	35	40	P6877-ND	6.89	5.84	4.20	3.15	ECO-S1CP473EA
	56000	2.83	8.73	35	45	P6878-ND	7.65	6.48	4.66	3.50	ECO-S1CP563EA
	68000	3.12	9.05	35	50	P6879-ND	7.80	6.73	4.93	3.88	ECO-S1CP683EA
25	3300	0.86	1.68	22	25	P7348-ND	2.20	2.20	1.35	1.01	ECO-S1EP332BA
	4700	1.02	3.05	20	25	P6880-ND	3.00	2.46	1.73	1.20	ECO-S1EP472AA
	4700	1.02	2.39	22	25	P7349-ND	2.39	2.03	1.46	1.10	ECO-S1EP472BA
	5600	1.12	3.36	20	30	P6881-ND	3.14	2.58	1.81	1.26	ECO-S1EP562AA
	5600	1.12	2.86	22	25	P7350-ND	2.51	2.12	1.53	1.15	ECO-S1EP562BA
	6800	1.23	3.47	20	35	P6882-ND	3.35	2.75	1.93	1.34	ECO-S1EP682AA
	6800	1.23	3.47	25	25	P6883-ND	3.78	3.03	2.08	1.36	ECO-S1EP682CA
	8200	1.35	3.57	20	40	P6884-ND	3.58	2.94	2.06	1.44	ECO-S1EP822AA
	8200	1.35	3.57	25	25	P6885-ND	3.52	2.89	2.02	1.41	ECO-S1EP822CA
	10000	1.50	3.78	22	35	P6886-ND	3.71	3.05	2.14	1.49	ECO-S1EP103BA
	10000	1.50	3.78	30	25	P6887-ND	4.06	3.33	2.34	1.63	ECO-S1EP103DA
	12000	1.64	4.10	22	40	P6888-ND	4.04	3.31	2.32	1.62	ECO-S1EP123BA
	12000	1.64	4.10	30	30	P6889-ND	4.38	3.60	2.52	1.76	ECO-S1EP123DA
	15000	1.83	4.63	22	50	P6890-ND	4.47	3.67	2.57	1.79	ECO-S1EP153BA
	15000	1.83	4.63	30	30	P6891-ND	4.85	3.98	2.79	1.94	ECO-S1EP153DA
	18000	2.01	5.47	25	45	P6892-ND	5.09	4.18	2.93	2.04	ECO-S1EP183CA
	18000	2.01	5.47	30	35	P6893-ND	5.33	4.38	3.06	2.14	ECO-S1EP183DA
	22000	2.22	6.10	25	50	P6894-ND	5.61	4.61	3.23	2.25	ECO-S1EP223CA
	22000	2.22	6.10	30	40	P6895-ND	5.09	4.32	3.11	2.33	ECO-S1EP223DA
	27000	2.46	6.21	30	45	P6896-ND	5.82	4.93	3.55	2.66	ECO-S1EP273DA
	27000	2.46	6.21	35	35	P6897-ND	6.11	5.17	3.72	2.79	ECO-S1EP273EA
	33000	2.72	6.84	30	50	P6898-ND	6.49	5.50	3.96	2.97	ECO-S1EP333DA
	33000	2.72	6.84	35	40	P6899-ND	7.04	5.96	4.29	3.22	ECO-S1EP333EA
	39000	2.96	7.36	35	45	P6900-ND	7.03	6.06	4.44	3.49	ECO-S1EP393EA
	47000	3.25	8.00	35	50	P6901-ND	7.90	6.81	4.99	3.93	ECO-S1EP473EA
35	2200	0.83	1.52	22	25	P7351-ND	2.22	1.88	1.35	1.02	ECO-S1VP222BA
	3300	1.01	2.73	20	25	P6902-ND	3.02	2.48	1.74	1.21	ECO-S1VP332AA
	3300	1.01	2.29	22	25	P7352-ND	2.42	2.05	1.48	1.11	ECO-S1VP332BA
	3900	1.10	2.94	20	30	P6903-ND	3.21	2.63	1.84	1.29	ECO-S1VP392AA
	3900	1.10	2.71	22	25	P7353-ND	2.54	2.16	1.55	1.17	ECO-S1VP392BA
	4700	1.21	3.26	20	35	P6904-ND	3.41	2.80	1.96	1.37	ECO-S1VP472AA
	4700	1.21	3.26	25	25	P6905-ND	3.85	3.09	2.11	1.38	ECO-S1VP472CA
	5600	1.32	3.36	20	40	P6906-ND	3.64	2.99	2.09	1.46	ECO-S1VP562AA
	5600	1.32	3.36	25	25	P6907-ND	4.03	3.23	2.21	1.44	ECO-S1VP562CA
	6800	1.46	3.68	22	35	P6908-ND	3.71	3.04	2.13	1.49	ECO-S1VP682BA
	6800	1.46	3.68	25	30	P6909-ND	3.85	3.16	2.21	1.54	ECO-S1VP682CA
	8200	1.60	4.00	22	40	P6910-ND	4.03	3.31	2.32	1.62	ECO-S1VP822BA
	8200	1.60	4.00	25	35	P6911-ND	4.18	3.43	2.40	1.68	ECO-S1VP822CA
	10000	1.77	4.42	22	45	P6913-ND	4.48	3.67	2.57	1.79	ECO-S1VP103BA
	10000	1.77	4.42	35	25	P6914-ND	5.33	4.37	3.06	2.13	ECO-S1VP103EA
	12000	1.94	5.05	25	45	P6915-ND	5.15	4.22	2.96	2.06	ECO-S1VP123CA

† 2000 hour life for can sizes of 20mm diameter or length

(Continued)

Panasonic TS-Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. DC (mA) Leakage Current	85° (rms) Ripple Current (120Hz) A	Dimensions (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
35	12000	1.94	5.05	35	30	P6916-ND	5.79	4.75	3.33	2.32	ECO-S1VP123EA
	15000	2.17	5.57	25	50	P6917-ND	5.60	4.59	3.22	2.24	ECO-S1VP153CA
	15000	2.17	5.57	35	30	P6918-ND	5.55	4.70	3.38	2.54	ECO-S1VP153EA
	18000	2.38	5.68	30	45	P6919-ND	5.90	5.00	3.60	2.70	ECO-S1VP183DA
	18000	2.38	5.68	35	35	P6920-ND	6.19	5.24	3.77	2.83	ECO-S1VP183EA
	22000	2.63	6.10	30	50	P6921-ND	6.39	5.41	3.90	2.92	ECO-S1VP223DA
	22000	2.63	6.10	35	40	P6922-ND	6.93	5.87	4.22	3.17	ECO-S1VP223EA
	27000	2.91	6.84	35	45	P6923-ND	7.09	6.12	4.48	3.53	ECO-S1VP273EA
	33000	3.22	7.15	35	50	P6924-ND	8.05	6.94	5.09	4.00	ECO-S1VP333EA
50	1500	0.82	1.24	22	25	P7354-ND	2.28	1.93	1.39	1.05	ECO-S1HP152BA
	2200	0.99	2.26	20	25	P6925-ND	3.09	2.54	1.78	1.24	ECO-S1HP222AA
	2200	0.99	1.82	22	25	P7355-ND	2.45	2.08	1.50	1.12	ECO-S1HP222BA
	2700	1.10	2.52	20	30	P6926-ND	3.29	2.70	1.89	1.32	ECO-S1HP272AA
	2700	1.10	2.23	22	25	P7356-ND	2.62	2.22	1.60	1.20	ECO-S1HP272BA
	3300	1.21	2.73	20	35	P6927-ND	3.54	2.90	2.03	1.42	ECO-S1HP332AA
	3300	1.21	2.73	25	25	P6928-ND	3.48	2.85	2.00	1.39	ECO-S1HP332CA
	3900	1.32	2.75	20	40	P6929-ND	3.77	3.09	2.17	1.51	ECO-S1HP392AA
	3900	1.32	2.75	25	25	P6930-ND	3.68	3.02	2.12	1.48	ECO-S1HP392CA
	4700	1.45	3.03	22	35	P6931-ND	3.90	3.20	2.24	1.56	ECO-S1HP472BA
	4700	1.45	3.03	30	25	P6932-ND	4.28	3.51	2.46	1.71	ECO-S1HP472DA
	5600	1.58	3.42	22	40	P6933-ND	4.24	3.48	2.44	1.70	ECO-S1HP562BA
	5600	1.58	3.42	30	30	P6934-ND	4.63	3.80	2.66	1.85	ECO-S1HP562DA
	6800	1.74	3.85	22	50	P6935-ND	4.70	3.86	2.70	1.88	ECO-S1HP682BA
	6800	1.74	3.85	30	30	P6936-ND	5.07	4.16	2.92	2.03	ECO-S1HP682DA
	8200	1.92	4.41	25	45	P6937-ND	5.37	4.41	3.09	2.15	ECO-S1HP822CA
	8200	1.92	4.41	30	35	P6938-ND	5.62	4.61	3.23	2.25	ECO-S1HP822DA
	10000	2.12	4.97	25	50	P6939-ND	5.01	4.25	3.06	2.29	ECO-S1HP103CA
	10000	2.12	4.97	35	30	P6940-ND	5.71	4.83	3.48	2.61	ECO-S1HP103EA
	12000	2.32	5.58	30	45	P6941-ND	6.10	5.16	3.72	2.79	ECO-S1HP123DA
	12000	2.32	5.58	35	35	P6942-ND	6.38	5.40	3.89	2.92	ECO-S1HP123EA
	15000	2.59	6.44	30	50	P6943-ND	6.51	5.51	3.97	2.98	ECO-S1HP153DA
	15000	2.59	6.44	35	40	P6944-ND	7.41	6.27	4.52	3.39	ECO-S1HP153EA
	18000	2.84	6.94	35	45	P6945-ND	7.51	6.48	4.75	3.73	ECO-S1HP183EA
	22000	3.15	7.57	35	50	P6946-ND	8.21	7.08	5.19	4.08	ECO-S1HP223EA
80	680	0.69	1.02	22	25	P7357-ND	2.24	1.90	1.37	1.03	ECO-S1KP681BA
	1000	0.84	1.51	22	25	P7358-ND	2.46	2.09	1.50	1.13	ECO-S1KP102BA
	1200	0.92	1.81	22	25	P7359-ND	2.55	2.16	1.56	1.17	ECO-S1KP122BA
	1500	1.03	2.26	22	30	P7360-ND	2.82	2.39	1.72	1.29	ECO-S1KP152BA
	1500	1.03	2.26	25	25	P7361-ND	2.90	2.46	1.77	1.33	ECO-S1KP152CA
	1800	1.13	2.52	22	35	P7362-ND	3.04	2.58	1.86	1.39	ECO-S1KP182BA
	1800	1.13	2.52	25	30	P7363-ND	3.10	2.63	1.89	1.42	ECO-S1KP182CA
	2200	1.25	2.73	22	40	P7364-ND	3.31	2.81	2.02	1.52	ECO-S1KP222BA
	2200	1.25	2.73	30	25	P7365-ND	3.60	3.05	2.20	1.65	ECO-S1KP222DA
	2700	1.39	2.78	22	45	P7366-ND	3.68	3.12	2.25	1.69	ECO-S1KP272BA
	2700	1.39	2.78	30	30	P7367-ND	3.94	3.34	2.40	1.80	ECO-S1KP272DA
	3300	1.54	3.21	22	50	P7368-ND	3.95	3.34	2.41	1.81	ECO-S1KP332BA
	3300	1.54	3.21	30	30	P7369-ND	4.27	3.62	2.61	1.96	ECO-S1KP332DA
	3900	1.67	3.59	25	45	P7370-ND	4.47	3.79	2.73	2.05	ECO-S1KP392CA
	3900	1.67	3.59	30	35	P7371-ND	4.76	4.04	2.91	2.18	ECO-S1KP392DA
	4700	1.83	4.09	25	50	P7372-ND	4.88	4.13	2.98	2.23	ECO-S1KP472CA
	4700	1.83	4.09	30	40	P7373-ND	5.21	4.41	3.18	2.38	ECO-S1KP472DA
	5600	2.00	4.55	30	45	P7374-ND	5.85	4.95	3.57	2.68	ECO-S1KP562DA
	5600	2.00	4.55	35	35	P7375-ND	6.14	5.20	3.75	2.81	ECO-S1KP562EA
	6800	2.21	5.16	30	50	P7376-ND	6.48	5.49	3.95	2.96	ECO-S1KP682DA
	6800	2.21	5.16	35	40	P7377-ND	7.06	5.98	4.31	3.23	ECO-S1KP682EA
	8200	2.42	5.83	35	50	P7378-ND	7.97	6.75	4.86	3.65	ECO-S1KP822EA
100	470	0.65	1.11	22	25	P7379-ND	2.31	1.96	1.41	1.06	ECO-S2AP471BA
	560	0.70	1.32	22	25	P7380-ND	2.41	2.05	1.48	1.11	ECO-S2AP561BA
	680	0.78	1.61	22	25	P7381-ND	2.56	2.17	1.56	1.17	ECO-S2AP681BA
	1000	0.94	1.96	20	35	P6947-ND	3.54	2.91	2.04	1.42	ECO-S2AP102AA
	1000	0.94	1.96	25	25	P6948-ND	3.50	2.88	2.01	1.40	ECO-S2AP102CA
	1200	1.03	2.31	20	40	P6949-ND	3.81	3.13	2.19	1.53	ECO-S2AP122AA
	1200	1.03	2.31	25	30	P6990-ND	3.73	3.06	2.15	1.50	ECO-S2AP122CA
	1500	1.16	2.57	22	40	P6991-ND	4.05	3.32	2.33	1.62	ECO-S2AP152BA
	1500	1.16	2.57	30	25	P6992-ND	4.35	3.57	2.50	1.74	ECO-S2AP152DA
	1800	1.27	2.84	22	45	P6993-ND	4.47	3.67	2.57	1.79	ECO-S2AP182BA
	1800	1.27	2.84	30	30	P6101-ND	4.71	3.87	2.71	1.89	ECO-S2AP182DA
	2200	1.40	3.14	22	50	P6102-ND	4.89	4.01	2.81	1.96	ECO-S2AP222BA
	2200	1.40	3.14	30	30	P6103-ND	4.45	3.77	2.71	2.04	ECO-S2AP222DA
	2700	1.55	3.71	25	45	P6104-ND	4.91	4.16	3.00	2.25	ECO-S2AP272CA
	2700	1.55	3.71	30	35	P6105-ND	5.00	4.24	3.05	2.29	ECO-S2AP272DA
	3300	1.72	4.06	25	50	P6106-ND	5.44	4.61	3.32	2.49	ECO-S2AP332CA
	3300	1.72	4.06	30	40	P6107-ND	5.73	4.85	3.49	2.62	ECO-S2AP332DA
	3900	1.87	4.54	30	45	P6108-ND	6.36	5.39	3.88	2.91	ECO-S2AP392DA
	3900	1.87	4.54	35	35	P6109-ND	6.74	5.70	4.11	3.08	ECO-S2AP392EA
	4700	2.05	5.13	30	50	P6110-ND	6.44	5.56	4.07	3.20	ECO-S2AP472DA
	4700	2.05	5.13	35	40	P6111-ND	6.99	6.03	4.42	3.48	ECO-S2AP472EA
	5600	2.24	5.75	35	45	P6112-ND	7.83	6.76	4.95	3.89	ECO-S2AP562EA
	6800	2.47	6.60	35	50	P6113-ND	7.92	6.98	5.22	4.33	ECO-S2AP682EA
200	150	0.51	0.71	22	25	P7382-ND	2.19	1.86	1.34	1.01	ECO-S2DP151BA
	220	0.62	1.04	22	25	P7383-ND	2.37	2.01	1.45	1.09	ECO-S2DP221BA
	270	0.69	1.41	20	30	P6114-ND	3.08	2.53	1.77	1.24	ECO-S2DP271AA
	270	0.69	1.41	22	25	P6115-ND	3.39	2.72	1.86	1.22	ECO-S2DP271BA
	330	0.77	1.56	20	35	P6116-ND	3.29	2.70	1.89	1.32	ECO-S2DP331AA
	330	0.77	1.56	25	25	P6117-ND	3.25	2.67	1.87	1.30	ECO-S2DP331CA
	390	0.83	1.68	22	30	P6118-ND	3.31	2.72	1.91	1.33	ECO-S2DP391BA
	390	0.83	1.68	25	25	P6119-ND	3.44	2.82	1.98	1.38	ECO-S2DP391CA
	470	0.91	1.85	22	35	P6120-ND	3.59	2.95	2.07	1.44	ECO-S2DP471BA
	470	0.91	1.85	30	25	P6121-ND	4.11	3.37	2.36	1.65	ECO-S2DP471DA
	560	1.00	2.43	22	40	P6122-ND	3.77	3.10	2.17	1.51	ECO-S2DP561BA
	560	1.00	2.43	30	25	P6123-ND	4.43	3.63	2.55	1.77	ECO-S2DP561DA
	680	1.10	2.68	22	45	P6124-ND	4.13	3.39	2.37	1.65	ECO-S2DP681BA
	680	1.10	2.68	30	30	P6125-ND	4.79	3.93	2.75	1.92	ECO-S2DP681DA
	820	1.21	2.93	25	45	P6126-ND	4.69	3.85	2.70	1.88	ECO-S2DP821CA
	820	1.21	2.93	35	25	P6127-ND	5.66	4.64	3.25	2.27	ECO-S2DP821EA
	1000	1.34	3.25	25	45	P7384-ND	4.35	3.68	2.65	1.99	ECO-S2DP102CX
	1000	1.34	3.25	25	50	P6128-ND	4.52	3.83	2.76	2.07	ECO-S2DP102CA
200	1000	1.34	3.25	35	30	P6129-ND	5.37	4.55	3.27	2.46	ECO-S2DP102EA
	1200	1.46	3.50	30	40	P7385-ND	5.44	4.60	3.31	2.49	ECO-S2DP122DX
	1200	1.46	3.50	30	45	P6130-ND	5.58	4.73	3.40	2.55	ECO-S2DP122DA
	1200	1.46	3.50	35	30	P7386-ND	5.82	4.93	3.55	2.66	ECO-S2DP122EX
	1200	1.46	3.50	35	35	P6131-ND	5.97	5.06	3.64	2.73	ECO-S2DP122EA
	1500	1.64	3.87	30	45	P7387-ND	6.30	5.33	3.84	2.88	ECO-S2DP152DX
	1500	1.64	3.87	30	50	P6132-ND	6.55	5.54	3.99	2.99	ECO-S2DP152DA
	1500	1.64	3.87	35	35	P7388-ND	6.68	5.65	4.07	3.05	ECO-S2DP152EX
	1500	1.64	3.87	35	40	P6133-ND	6.93	5.87	4.22	3.17	ECO-S2DP152EA
	1800	1.80	4.32	35	40	P7389-ND	7.60	6.43	4.63	3.47	ECO-S2DP182EX
	1800	1.80	4.32	35	45	P6134-ND	6.94	5.98	4.38	3.45	ECO-S2DP182EA
	2200	1.98	4.92	35	45	P7390-ND	8.60	7.28	5.24	3.93	ECO-S2DP222EX
	2200	1.98	4.92	35	50	P6135-ND	7.97	6.87	5.04	3.96	ECO-S2DP222EA
250	120	0.51	0.71	22	25	P7391-ND	2.34	1.99	1.43	1.08	ECO-S2EP121BA
	150	0.58	0.89	22	25	P7392-ND	2.47	2.09	1.51	1.13	ECO-S2EP151BA
	180	0.63	1.07	20	30	P7393-ND	2.73	2.31	1.67	1.25	ECO-S2EP181AA
	180	0.63	1.07	22	25	P7394-ND	2.62	2.22	1.60	1.20	ECO-S2EP181BA
	220	0.70	1.17	22	25	P7395-ND	2.76	2.34	1.69	1.27	ECO-S2EP221BX
	270	0.77	1.31	22	30	P7396-ND	2.97	2.52	1.82	1.36	ECO-S2EP271BA
	270	0.77	1.31	25	25	P7397-ND	3.09	2.62	1.89	1.42	ECO-S2EP271CA
	330	0.86	1.75	22	35	P7398-ND	3.27	2.77	2.00	1.50	ECO-S2EP331BA
	330	0.86	1.75	25	30	P7399-ND	3.34	2.83	2.04	1.53	ECO-S2EP331CA
	390	0.93	1.91	22	40	P7400-ND	3.49	2.96	2.13	1.60	ECO-S2EP391BA
	390	0.93	1.91	30	25	P7401-ND	3.80	3.22	2.32	1.74	ECO-S2EP391DA
	470	1.02	2.11	22	45	P7402-ND	3.85	3.26	2.35	1.76	ECO-S2EP471BA
	470	1.02	2.11	30	25	P7403-ND	4.16	3.52	2.54	1.90	ECO-S2EP471DX
	560	1.12	2.25	25	40	P7404-ND	4.33	3.67	2.64	1.98	ECO-S2EP561CX
	560	1.12	2.25	35	25	P7405-ND	4.91	4.16	3.00	2.25	ECO-S2EP561EA
	680	1.23	2.50	25	45	P7406-ND	4.80	4.06	2.93	2.20	ECO-S2EP681CX
	680	1.23	2.50	35	30	P7407-ND	5.43	4.60	3.31	2.49	ECO-S2EP681EA
	820	1.35	2.50	30	40	P7408-ND	5.67	4.80	3.46	2.60	ECO-S2EP821DX
	820	1.35	2.77	35	30	P7409-ND	6.05	5.12	3.69	2.77	ECO-S2EP821EX
	1000	1.50	3.32	30	45	P7410-ND	6.45	5.46	3.93	2.95	ECO-S2EP102DX
	1000	1.50	3.32	35	35	P7411-ND	6.85	5.80	4.18	3.13	ECO-S2EP102EX
	1200	1.64	3.53	35	40	P7412-ND	7.80	6.60	4.75	3.57	ECO-S2EP122EX
	1500	1.83	4.04	35	50	P7413-ND	9.05	7.66	5.51	4.14	ECO-S2EP152EA
400	47	0.41	0.47	22	25	P7414-ND	2.64	2.24	1.61	1.21	ECO-S2GP470BA
	68	0.49	0.76	20	30	P6136-ND	3.20	2.63	1.84	1.28	ECO-S2GP680AA
	68	0.49	0.76	22	25	P6137-ND	3.58	2.87	1.97	1.28	ECO-S2GP680BA
	82	0.54	0.83	20	30	P6138-ND	3.37	2.77	1.94	1.35	ECO-S2GP820AA
	82	0.54	0.83	22	25	P6139-ND	3.30	2.71	1.90	1.32	ECO-S2GP820BA
	100	0.60	0.92	20	35	P6140-ND	3.63	2.98	2.09	1.45	ECO-S2GP101AA
	100	0.60	0.92	25	25	P6141-ND	3.60	2.96	2.07	1.44	ECO-S2GP101CA
	120	0.65	1.02	20	40	P6142-ND	3.90	3.20	2.24	1.56	ECO-S2GP121AA
	120	0.65	1.02	25	25	P7415-ND	3.30	2.79	2.01	1.51	ECO-S2GP121CX
	120	0.65	1.02	25	30	P6143-ND	3.84	3.15	2.21	1.54	ECO-S2GP121CA
	150	0.73	1.16	22	40	P6144-ND	4.22	3.47	2.43	1.69	ECO-S2GP151BA
	150	0.73	1.16	30	25	P6145-ND	4.51	3.70	2.59	1.81	ECO-S2GP151DA
	180	0.80	1.44	22	45	P6146-ND	4.63	3.80	2.66	1.86	ECO-S2GP181BA
	180	0.80	1.44	30	30	P6147-ND	4.90	4.02	2.82	1.96	ECO-S2GP181DA
	220	0.88	1.49	22	50	P6148-ND	5.23	4.29	3.01	2.09	ECO-S2GP221BA
	220	0.88	1.49	30	30	P6149-ND	5.43	4.46	3.12	2.18	ECO-S2GP221DA
	270	0.98	1.67	25	45	P6150-ND	5.02	4.25	3.06	2.30	ECO-S2GP271CA
	270	0.98	1.67	35	30	P6151-ND	5.58	4.72	3.40	2.55	ECO-S2GP271EA
	330	1.08	1.90	30	40	P6152-ND	5.93	5.03	3.62	2.72	ECO-S2GP331DA
	330	1.08	1.90	35	30	P7416-ND	6.25	5.29	3.81	2.86	ECO-S2GP331EX
	330	1.08	1.90	35	35	P6153-ND	6.25	5.30	3.81	2.86	ECO-S2GP331EA
	390	1.18	2.13	30	45	P6154-ND	6.57	5.57	4.01	3.01	ECO-S2GP391DA
	390	1.18	2.13	35	35	P7417-ND	6.95	5.88	4.23	3.18	ECO-S2GP391EX
	390	1.18	2.13	35	40	P6155-ND	7.07	5.99	4.31	3.23	ECO-S2GP391EA
	470	1.30	2.39	35	40	P7418-ND	7.98	6.75	4.86	3.65	ECE-S2GP471EX
	470	1.30	2.39	35	45	P6156-ND	7.09	6.12	4.48	3.53	ECO-S2GP471EA
	560	1.41	2.69	35	45	P7419-ND	8.88	7.52	5.41	4.06	ECO-S2GP561EX
	560	1.41	2.69	35	50	P6157-ND	8.23	7.10	5.20	4.09	ECO-S2GP561EA
	680	1.56	3.00	35	50	P7420-ND	10.60	8.97	6.46	4.85	ECO-S2GP681EX
450	33	0.36	0.41	22	25	P7421-ND	2.42	2.05	1.48	1.11	ECO-S2WP330BA
	47	0.43	0.59	22	25	P7422-ND	2.64	2.24	1.61	1.21	ECO-S2WP470BA
	56	0.47	0.70	20	30	P7423-ND	2.85	2.41	1.74	1.30	ECO-S2WP560AA
	56	0.47	0.70	22	25	P7424-ND	2.79	2.36	1.70	1.28	ECO-S2WP560BA
	82	0.57	0.83	22	30	P7425-ND	3.25	2.75	1.98	1.49	ECO-S2WP820BA
	82	0.57	0.83	25	25	P7426-ND	3.27	2.77	2.00	1.50	ECO-S2WP820CA
	100	0.63	0.93	22	35	P7427-ND	3.59	3.04	2.19	1.64	ECO-S2WP101BA
	120	0.69	1.04	22	40	P7428-ND	3.92	3.32	2.39	1.79	ECO-S2WP121BA
	120	0.69	1.04	30	25	P7429-ND	4.16	3.52	2.54	1.90	ECO-S2WP121DA
	150	0.77	1.19	22	50	P7430-ND	4.38	3.71	2.67	2.01	ECO-S2WP151BA
	150	0.77	1.19	30	30	P7431-ND	4.55	3.85	2.78	2.08	ECO-S2WP151DA
	180	0.85	1.35	25	40	P7432-ND	4.90	4.15	2.99	2.24	ECO-S2WP181CX
	180	0.85	1.35	35	25	P7433-ND	5.57	4.72	3.40	2.55	ECO-S2WP181EA
	220	0.94	1.55	25	45	P7434-ND	5.55	4.70	3.39	2.54	ECO-S2WP221CX
	220	0.94	1.55	35	30	P7435-ND	6.05	5.13	3.69	2.77	ECO-S2WP221EA
	270	1.04	1.78	30	45	P7436-ND	6.50	5.50	3.96	2.97	ECO-S2WP271DA
	270	1.04	1.78	35	30	P7437-ND	6.93	5.87	4.22	3.17	ECO-S2WP271EX
	330	1.15	2.01	30	50	P7438-ND	7.58	6.41	4.62	3.46	ECO-S2WP331DA
	330	1.15	2.01	35	35	P7439-ND	8.13	6.88	4.96	3.72	ECE-S2WP331EX
	390	1.25	2.24	35	45	P7440-ND	8.79	7.44	5.36	4.02	ECO-S2WP391EA
	470	1.37	2.53	35	45	P7441-ND	10.48	8.87	6.39	4.79	ECO-S2WP471EX
500	47	0.45	0.63	22	25	P7442-ND	3.32	2.81	2.02	1.52	ECO-S2HP470BA
	56	0.50	0.70	22	30	P7443-ND	3.51	2.98	2.14	1.61	ECO-S2HP560BA
	68	0.55	0.78	22	35	P7444-ND	3.87	3.28	2.36	1.77	ECO-S2HP680BA
	68	0.55	0.78	25	25	P7445-ND	3.91	3.32	2.39	1.79	ECO-S2HP680CA
	82	0.60	0.88	22	40	P7446-ND	4.21	3.57	2.57	1.93	ECO-S2HP820BA
	82	0.60	0.88	25	30	P7447-ND	4.22	3.58	2.58	1.93	ECO-S2HP820CA
	100	0.67	0.99	22	45	P7448-ND	4.66	3.95	2.85	2.14	ECO-S2HP101BA
	100	0.67	0.99	25	35	P7449-ND	4.68	3.97	2.86	2.14	ECO-S2HP101CA
	120	0.73	1.13	22	50	P7450-ND	5.23	4.43	3.19	2.39	ECO-S2HP121BA
	120	0.73	1.13	30	30	P7451-ND	5.39	4.57	3.29	2.47	ECO-S2HP121DA
	150	0.82	1.29	25	45	P7452-ND	5.96	5.05	3.63	2.73	ECO-S2HP151CA
	150	0.82	1.20	35	25	P7453-ND	6.60	5.59	4.02	3.02	ECO-S2HP151EA

* Ripple Current at 105°C † 2000 hour life for can sizes of 20mm diameter or length.

(Continued)

W.V. DC	Cap. (µF)	Max. DC (mA) Leakage Current	85° (rms) Ripple Current (120Hz) A	Dimensions (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
500	180	0.90	1.38	25	50	P7454-ND	6.81	5.76	4.15	3.11	ECO-S2HP181CA
	180	0.90	1.36	35	30	P7455-ND	7.28	6.16	4.44	3.33	ECO-S2HP181EA
	220	0.99	1.50	30	45	P7456-ND	7.91	6.70	4.82	3.62	ECO-S2HP221DA
	220	0.99	1.54	35	35	P7457-ND	8.28	7.01	5.05	3.79	ECO-S2HP221EA
	270	1.10	1.76	35	40	P7458-ND	9.57	8.10	5.83	4.38	ECO-S2HP271EA
	330	1.21	1.99	35	45	P7459-ND	11.06	9.36	6.74	5.06	ECO-S2HP331EA
	390	1.32	2.22	35	50	P7460-ND	12.75	10.79	7.77	5.83	ECO-S2HP391EA
TSNH Long Life and High Ripple Current +105°C, 2000 Hour Life											
16	4700	0.75	2.0*	22	31.5	P6450-ND	3.10	2.49	2.04	1.33	ECE-S1CG472E
	10000	1.2	2.9*	25	40	P6452-ND	3.61	2.96	2.49	1.74	ECE-S1CG103M
	15000	1.46	3.5*	25	50	P6453-ND	4.51	3.70	3.11	2.17	ECE-S1CG153N
	22000	1.77	4.2*	30	50	P6454-ND	5.38	4.56	3.94	2.96	ECE-S1CG223U
	33000	2.17	4.8*	35	51	P6455-ND	7.85	6.64	5.74	4.31	ECE-S1CG333Z
25	3300	.86	1.7*	22	31.5	P6456-ND	3.07	2.46	2.02	1.32	ECE-S1EG332E
	4700	1.02	2.2*	22	40	P6457-ND	3.31	2.65	2.18	1.42	ECE-S1EG472G
	6800	1.23	2.6*	25	40	P6458-ND	3.79	3.11	2.61	1.82	ECE-S1EG682M
	10000	1.50	3.1*	25	50	P6459-ND	4.69	3.85	3.24	2.25	ECE-S1EG103N
	22000	2.22	4.0*	35	51	P6461-ND	8.16	6.91	5.96	4.47	ECE-S1EG223Z
35	2200	.77	1.6*	25	25	P6589-ND	2.97	2.38	1.96	1.28	ECE-S1VG222J
	6800	1.46	2.9*	25	50	P6465-ND	4.17	3.42	2.87	2.00	ECE-S1VG682N
	15000	2.17	3.9*	35	51	P6467-ND	6.92	5.86	5.06	3.80	ECE-S1VG153Z
50	3300	1.21	2.3	25	40	P6470-ND	3.50	2.88	2.42	1.68	ECE-S1HG332M
	4700	1.45	2.8	25	50	P6471-ND	4.26	3.49	2.94	2.05	ECE-S1HG472N
	10000	2.12	3.7	35	51	P6473-ND	6.61	5.60	4.84	3.63	ECE-S1HG103Z
63	1000	0.63	1.3	22	31.5	P6534-ND	3.02	2.42	1.99	1.30	ECE-S1JG102E
	2200	1.11	2.0	25	40	P6535-ND	3.50	2.88	2.42	1.68	ECE-S1JG222M
	3300	1.36	2.5	25	50	P6536-ND	4.51	3.70	3.11	2.17	ECE-S1JG332N
	4700	1.63	2.9	30	50	P6537-ND	5.99	4.92	4.13	2.88	ECE-S1JG472U
	6800	1.96	3.3	35	51	P6538-ND	7.08	5.99	5.18	3.88	ECE-S1JG682Z
100	470	0.47	1.2	22	31.5	P6474-ND	3.31	2.65	2.18	1.42	ECE-S2AG471E
	680	0.68	1.4	22	40	P6539-ND	3.32	2.73	2.29	1.60	ECE-S2AG681G
	1000	1.0	1.7	25	40	P6476-ND	4.12	3.38	2.84	1.98	ECE-S2AG102M
	2200	1.4	2.6	30	50	P6478-ND	6.92	5.86	5.06	3.80	ECE-S1AG222U
	3300	1.72	2.0	35	51	P6479-ND	8.33	7.18	6.31	4.97	ECE-S2AG332Z
200	220	0.62	1.0	22	40	P6554-ND	3.10	2.55	2.14	1.49	ECE-S2DG221G
	330	0.77	1.2	25	40	P6555-ND	3.79	3.11	2.61	1.82	ECE-S2DG331M
	470	0.91	1.4	25	50	P6556-ND	4.51	3.70	3.11	2.17	ECE-S2DG471N
	680	1.1	1.7	30	50	P6557-ND	5.85	4.80	4.03	2.81	ECE-S2DG681U
250	220	0.7	1.05	25	40	P6580-ND	3.87	3.18	2.67	1.86	ECE-S2EG221M
	330	0.86	1.25	25	50	P6581-ND	4.87	4.00	3.36	2.34	ECE-S2EG331N
	680	1.23	1.8	35	51	P6583-ND	6.71	5.68	4.91	3.68	ECE-S2EG681Z
400	47	0.41	.47	22	31.5	P6584-ND	3.48	2.79	2.29	1.50	ECE-S2GG470E
	68	0.49	.56	22	40	P6585-ND	3.25	2.67	2.24	1.56	ECE-S2GG680G
	100	0.6	.69	25	40	P6586-ND	3.86	3.17	2.67	1.86	ECE-S2GG101M
	220	0.88	1.0	30	50	P6587-ND	6.00	5.08	4.39	3.29	ECE-S2GG221U
	330	1.08	1.2	35	51	P6588-ND	7.65	6.60	5.80	4.56	ECE-S2GG331Z
TSHA Miniaturized Size, Long Life and High Ripple Current +105°C, 3000 Hour Life†											
16	3300	0.68	1.30	22	25	P7461-ND	2.83	2.27	1.56	1.02	ECO-S1CA332BA
	4700	0.82	1.52	22	25	P7462-ND	3.03	2.43	1.67	1.09	ECO-S1CA472BA
	6800	0.98	2.20	20	30	P6434-ND	3.07	2.52	1.77	1.23	ECO-S1CA682AA
	6800	0.98	2.20	22	25	P6436-ND	3.28	2.63	1.80	1.18	ECO-S1CA682BA
	8200	1.08	2.40	20	35	P6437-ND	3.25	2.67	1.87	1.30	ECO-S1CA822AA
	8200	1.08	2.40	22	30	P6441-ND	3.56	2.85	1.96	1.28	ECO-S1CA822BA
	10000	1.20	2.60	20	40	P6444-ND	3.48	2.85	2.00	1.39	ECO-S1CA103AA
	10000	1.20	2.60	25	25	P6460-ND	3.41	2.80	1.96	1.37	ECO-S1CA103CA
	12000	1.31	2.90	22	35	P6468-ND	3.56	2.93	2.05	1.43	ECO-S1CA123BA
	12000	1.31	2.90	30	25	P6477-ND	3.92	3.22	2.25	1.57	ECO-S1CA123DA
	15000	1.46	3.20	30	30	P6541-ND	4.28	3.51	2.46	1.72	ECO-S1CA153DA
	18000	1.60	3.50	22	45	P6543-ND	4.19	3.44	2.41	1.68	ECO-S1CA183BA
	18000	1.60	3.50	35	25	P6545-ND	5.05	4.14	2.90	2.02	ECO-S1CA183EA
	22000	1.77	3.80	25	45	P6547-ND	4.86	3.99	2.79	1.95	ECO-S1CA223CA
	22000	1.77	3.80	35	30	P6550-ND	5.52	4.53	3.17	2.21	ECO-S1CA223EA
	27000	1.97	4.20	25	50	P6552-ND	5.36	4.40	3.08	2.15	ECO-S1CA273CA
	27000	1.97	4.20	35	30	P6558-ND	6.10	5.01	3.51	2.44	ECO-S1CA273EA
	33000	2.17	4.70	30	45	P6559-ND	5.53	4.69	3.38	2.53	ECO-S1CA333DA
	33000	2.17	4.70	35	35	P6560-ND	5.83	4.94	3.55	2.67	ECO-S1CA333EA
	39000	2.36	5.10	30	50	P6561-ND	6.03	5.10	3.68	2.76	ECO-S1CA393DA
	39000	2.36	5.10	35	40	P6562-ND	6.56	5.55	4.00	3.00	ECO-S1CA393EA
	47000	2.60	5.50	35	45	P6563-ND	7.29	6.18	4.45	3.34	ECO-S1CA473EA
	56000	2.83	6.00	35	50	P6999-ND	7.77	6.58	4.73	3.55	ECO-S1CA563EA
25	2200	0.70	1.30	22	25	P7463-ND	2.81	2.26	1.55	1.01	ECO-S1EA222BA
	3300	0.86	1.62	22	25	P7464-ND	3.03	2.43	1.66	1.09	ECO-S1EA332BA
	4700	1.02	2.00	20	30	P6998-ND	3.09	2.54	1.78	1.24	ECO-S1EA472AA
	4700	1.02	2.00	22	25	P6566-ND	3.29	2.64	1.81	1.18	ECO-S1EA472BA
	5600	1.12	2.20	20	35	P6567-ND	3.26	2.67	1.87	1.31	ECO-S1EA562AA
	5600	1.12	2.20	22	30	P6997-ND	3.57	2.86	1.96	1.28	ECO-S1EA562BA
	6800	1.23	2.40	20	40	P6569-ND	3.47	2.85	2.00	1.39	ECO-S1EA682AA
	6800	1.23	2.40	25	25	P6570-ND	3.41	2.80	1.96	1.37	ECO-S1EA682CA
	8200	1.35	2.70	22	35	P6571-ND	3.58	2.94	2.06	1.44	ECO-S1EA822BA
	8200	1.35	2.70	30	25	P6572-ND	3.92	3.22	2.26	1.57	ECO-S1EA822DA
	10000	1.50	3.00	22	40	P6573-ND	3.80	3.12	2.19	1.52	ECO-S1EA103BA
	10000	1.50	3.00	30	30	P6574-ND	4.25	3.48	2.44	1.70	ECO-S1EA103DA
	12000	1.64	3.20	22	45	P6575-ND	4.27	3.50	2.45	1.71	ECO-S1EA123BA
	12000	1.64	3.20	35	25	P6576-ND	5.01	4.11	2.88	2.01	ECO-S1EA123EA
	15000	1.83	3.60	25	45	P6577-ND	4.87	4.00	2.80	1.95	ECO-S1EA153CA
	15000	1.83	3.60	35	30	P6578-ND	5.52	4.53	3.17	2.21	ECO-S1EA153EA
	18000	2.01	3.90	25	50	P6996-ND	5.29	4.34	3.04	2.12	ECO-S1EA183CA
	18000	2.01	3.90	35	35	P6590-ND	6.07	4.98	3.49	2.43	ECO-S1EA183EA
	22000	2.22	4.30	30	45	P6591-ND	5.46	4.63	3.33	2.50	ECO-S1EA223DA
	22000	2.22	4.30	35	35	P6592-ND	5.75	4.87	3.51	2.63	ECO-S1EA223EA
	27000	2.46	4.80	35	45	P6593-ND	6.56	5.56	4.00	3.00	ECO-S1EA273EA
	33000	2.72	5.50	35	50	P6594-ND	7.40	6.27	4.51	3.39	ECO-S1EA333EA
35	1500	0.68	1.10	22	25	P7465-ND	2.88	2.31	1.58	1.03	ECO-S1VA152BA
	2200	0.83	1.48	22	25	P7466-ND	3.12	2.50	1.72	1.12	ECO-S1VA222BA
	3300	1.01	1.90	20	30	P6595-ND	3.19	2.62	1.83	1.28	ECO-S1VA332AA
	3300	1.01	1.90	22	25	P6596-ND	3.44	2.76	1.89	1.23	ECO-S1VA332BA
	3900	1.10	2.00	20	35	P6597-ND	3.37	2.77	1.94	1.35	ECO-S1VA392AA
	3900	1.10	2.00	22	30	P6598-ND	3.70	2.97	2.03	1.33	ECO-S1VA392BA
	4700	1.21	2.20	20	40	P6599-ND	3.65	3.00	2.10	1.46	ECO-S1VA472AA
	4700	1.21	2.20	25	25	P6600-ND	3.58	2.94	2.06	1.43	ECO-S1VA472CA
	5600	1.32	2.40	22	35	P6658-ND	3.76	3.08	2.16	1.51	ECO-S1VA562BA
	5600	1.32	2.40	30	25	P6659-ND	4.06	3.33	2.33	1.63	ECO-S1VA562DA
	6800	1.46	2.60	22	40	P6660-ND	4.11	3.37	2.36	1.65	ECO-S1VA682BA
	6800	1.46	2.60	30	30	P6661-ND	4.41	3.62	2.53	1.77	ECO-S1VA682DA
	8200	1.60	2.90	22	50	P6662-ND	4.41	3.62	2.53	1.77	ECO-S1VA822BA
	8200	1.60	2.90	35	25	P6663-ND	5.22	4.28	3.00	2.09	ECO-S1VA822EA
	10000	1.77	3.20	25	45	P6664-ND	5.13	4.21	2.95	2.05	ECO-S1VA103CA
	10000	1.77	3.20	35	30	P6665-ND	5.71	4.69	3.28	2.29	ECO-S1VA103EA
	12000	1.94	3.50	25	50	P6666-ND	5.60	4.59	3.22	2.24	ECO-S1VA123CA
	12000	1.94	3.50	35	30	P6667-ND	6.35	5.21	3.65	2.54	ECO-S1VA123EA
	15000	2.17	3.90	30	45	P6668-ND	5.88	4.98	3.58	2.69	ECO-S1VA153DA
	15000	2.17	3.90	35	35	P6669-ND	6.17	5.23	3.76	2.82	ECO-S1VA153EA
	18000	2.38	4.30	35	40	P6670-ND	7.04	5.96	4.29	3.22	ECO-S1VA183EA
50	1000	0.67	0.90	22	25	P7467-ND	2.91	2.34	1.60	1.05	ECO-S1HA102BA
	1500	0.82	1.25	22	25	P7468-ND	3.12	2.50	1.72	1.12	ECO-S1HA152BA
	1800	0.90	1.50	20	30	P6672-ND	3.07	2.52	1.77	1.23	ECO-S1HA182AA
	1800	0.90	1.50	22	25	P6673-ND	3.28	2.63	1.80	1.18	ECO-S1HA182BA
	2200	0.99	1.70	20	35	P6674-ND	3.26	2.68	1.88	1.31	ECO-S1HA222AA
	2200	0.99	1.70	22	30	P6675-ND	3.57	2.86	1.96	1.28	ECO-S1HA222BA
	2700	1.10	1.80	20	40	P6676-ND	3.50	2.88	2.01	1.40	ECO-S1HA272AA
	2700	1.10	1.80	25	25	P6677-ND	3.43	2.82	1.97	1.38	ECO-S1HA272CA
	3300	1.21	2.00	22	35	P6678-ND	3.63	2.98	2.09	1.45	ECO-S1HA332BA
	3300	1.21	2.00	25	30	P6679-ND	3.69	3.03	2.12	1.48	ECO-S1HA332CA
	3900	1.32	2.20	22	40	P6680-ND	3.88	3.19	2.23	1.56	ECO-S1HA392BA
	3900	1.32	2.20	30	25	P6681-ND	4.23	3.48	2.43	1.70	ECO-S1HA392DA
	4700	1.45	2.50	22	45	P6682-ND	4.27	3.51	2.46	1.71	ECO-S1HA472BA
	4700	1.45	2.50	35	25	P6683-ND	5.02	4.12	2.89	2.01	ECO-S1HA472EA
	5600	1.58	2.80	22	50	P6684-ND	4.62	3.79	2.65	1.85	ECO-S1HA562BA
	5600	1.58	2.80	35	30	P6685-ND	5.41	4.44	3.11	2.17	ECO-S1HA562EA
	6800	1.74	3.30	25	50	P6686-ND	5.20	4.27	2.99	2.08	ECO-S1HA682CA
	6800	1.74	3.30	35	30	P6687-ND	5.94	4.87	3.41	2.38	ECO-S1HA682EA
	8200	1.92	3.60	30	45	P6688-ND	6.25	5.13	3.59	2.50	ECO-S1HA822DA
	8200	1.92	3.60	35	35	P6689-ND	5.61	4.75	3.42	2.57	ECO-S1HA822EA
	10000	2.12	4.00	30	50	P6690-ND	5.89	4.99	3.59	2.69	ECO-S1HA103DA
	10000	2.12	4.00	35	40	P6691-ND	6.42	5.43	3.91	2.94	ECO-S1HA103EA
	12000	2.32	4.50	35	45	P6692-ND	7.11	6.02	4.34	3.25	ECO-S1HA123EA
	15000	2.59	4.80	35	50	P6693-ND	8.17	6.92	4.98	3.74	ECO-S1HA153EA
63	680	0.62	0.90	22	25	P7469-ND	2.89	2.31	1.59	1.04	ECO-S1JA681BA
	1000	0.75	1.17	22	25	P7470-ND	3.07	2.46	1.68	1.10	ECO-S1JA102BA
	1200	0.82	1.40	20	30	P7471-ND	3.47	2.78	1.90	1.24	ECO-S1JA122AA
	1200	0.82	1.40	22	25	P7472-ND	3.22	2.58	1.77	1.15	ECO-S1JA122BA
	1500	0.92	1.50	20	35	P7473-ND	3.69	2.95	2.02	1.32	ECO-S1JA152AA
	1500	0.92	1.50	22	30	P7474-ND	3.52	2.82	1.93	1.26	ECO-S1JA152BA
	1800	1.01	1.70	22	30	P7475-ND	3.73	2.99	2.05	1.34	ECO-S1JA182BA
	1800	1.01	1.70	25	25	P7476-ND	3.83	3.07	2.10	1.37	ECO-S1JA182CA
	2200	1.11	2.00	22	35	P7477-ND	4.03	3.23	2.21	1.44	ECO-S1JA222BA
	2200	1.11	2.00	25	30	P7478-ND	4.11	3.29	2.25	1.47	ECO-S1JA222CA
	2700	1.23	2.20	22	40	P7479-ND	4.38	3.51	2.41	1.57	ECO-S1JA272BA
	2700	1.23	2.20	30	25	P7480-ND	4.78	3.83	2.62	1.71	ECO-S1JA272DA
	3300	1.36	2.50	22	50	P7481-ND	4.79	3.83	2.63	1.71	ECO-S1JA332BA
	3300	1.36	2.50	35	25	P7482-ND	5.70	4.56	3.13	2.04	ECO-S1JA332EA
	3900	1.48	2.70	25	45	P7483-ND	5.37	4.30	2.95	1.92	ECO-S1JA392CA
	3900	1.48	2.70	35	30	P7484-ND	6.12	4.90	3.36	2.19	ECO-S1JA392EA
	4700	1.63	3.00	25	50	P7485-ND	5.84	4.67	3.20	2.09	ECO-S1JA472CA
	4700	1.63	3.00	35	30	P7486-ND	6.68	5.35	3.66	2.39	ECO-S1JA472EA
	5600	1.78	3.30	30	45	P7487-ND	6.96	5.57	3.82	2.49	ECO-S1JA562DA
	5600	1.78	3.30	35	35	P7488-ND	7.34	5.88	4.03	2.63	ECO-S1JA562EA
	6800	1.96	3.60	30	50	P7489-ND	7.66	6.13	4.20	2.74	ECO-S1JA682DA
	6800	1.96	3.60	35	40	P7490-ND	8.38	6.71	4.59	3.00	ECO-S1JA682EA
	8200	2.15	3.90	35	45	P7491-ND	9.28	7.43	5.09	3.32	ECO-S1JA822EA
	10000	2.38	4.40	35	50	P7492-ND	10.47	8.38	5.74	3.74	ECO-S1JA103EA
80	470	0.58	0.80	22	25	P7493-ND	2.92	2.34	1.60	1.05	ECO-S1KA471BA
	680	0.69	1.00	22	25	P7494-ND	3.16	2.53	1.73	1.13	ECO-S1KA681BA
	820	0.76	1.20	20	30	P7495-ND	3.62	2.90	1.99	1.30	ECO-S1KA821AA
	820	0.76	1.20	22	25	P7496-ND	3.28	2.63	1.80	1.18	ECO-S1KA821BA
	1000	0.84	1.30	22	30	P7497-ND	3.70	2.97	2.03	1.33	ECO-S1KA102BA
	1000	0.84	1.30	25	25	P7498-ND	3.83	3.07	2.10	1.37	ECO-S1KA102CA
	1200	0.92	1.50	22	30	P7499-ND	3.88	3.11	2.13	1.39	ECO-S1KA122BA
	1200	0.92	1.50	25	25	P7500-ND	3.92	3.14	2.15	1.41	ECO-S1KA122CA
	1500	1.03	1.70	22	35	P7501-ND	4.18	3.35	2.30	1.50	ECO-S1KA152BA
	1500	1.03	1.70	25	30	P7502-ND	4.44	3.56	2.44	1.59	ECO-S1KA152CA
	1800	1.13	1.80	22	40	P7503-ND	4.43	3.55	2.43	1.59	ECO-S1KA182BA
	1800	1.13	1.80	30	25	P7504-ND	4.80	3.85	2.64	1.72	ECO-S1KA182DA
	2200	1.25	2.10	22	45	P7505-ND	4.89	3.92	2.68	1.75	ECO-S1KA222BA
	2200	1.25	2.10	35	25	P7506-ND	6.15	4.93	3.37	2.20	ECO-S1KA222EA
	2700	1.39	2.40	25	45	P7507-ND	5.69	4.55	3.12	2.04	ECO-S1KA272CA
	2700	1.39	2.40	35	30	P7508-ND	6.74	5.39	3.69	2.41	ECO-S1KA272EA
	3300	1.54	2.60	25	50	P7509-ND	6.23	4.99	3.42	2.23	ECO-S1KA332CA
	3300	1.54	2.60	35	30	P7510-ND	7.09	5.68	3.89	2.54	ECO-S1KA332EA
	4700	1.83	3.30	30	50	P7511-ND	8.15	6.53	4.47	2.92	ECO-S1KA472DA
	4700	1.83	3.30	35	40	P7512-ND	8.90	7.12	4.88	3.18	ECO-S1KA472EA
	5600	2.00	3.70	35	45	P7513-ND	9.84	7.87	5.39	3.52	ECO-S1KA562EA
	6800	2.21	3.90	35	50	P7514-ND	11.06	8.85	6.06	3.96	ECO-S1KA682EA
100	330	0.54	0.80	22	25	P7515-ND	3.05	2.44	1.67	1.09	ECO-S2AA331BA
	470	0.65	0.92	22	25	P7516-ND	3.11	2.49	1.71	1.11	ECO-S2AA471BA
	560	0.70	1.10	20	30	P6694-ND	3.04	2.50	1.75	1.22	ECO-S2AA561AA
	560	0.70	1.10	22	25	P6695-ND	2.84	2.34	1.64	1.14	ECO-S2AA561BA

* Ripple Current at 105°C † 2000 hour life for can sizes of 20mm diameter or length

(Continued)

Panasonic TS-Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. DC (mA) Leakage Current	85° (rms) Ripple Current (120Hz) A	Dimensions (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
100	820	0.85	1.40	20	35	P6696-ND	3.53	2.90	2.03	1.42	ECO-S2AA821AA
	820	0.85	1.40	25	25	P6697-ND	3.38	2.77	1.94	1.35	ECO-S2AA821CA
	1000	0.94	1.70	20	40	P6698-ND	3.82	3.14	2.20	1.53	ECO-S2AA102AA
	1000	0.94	1.70	25	30	P6699-ND	3.60	2.96	2.07	1.44	ECO-S2AA102CA
	1200	1.03	1.80	22	40	P6700-ND	4.05	3.33	2.33	1.62	ECO-S2AA122BA
	1200	1.03	1.80	30	25	P6701-ND	4.13	3.39	2.37	1.65	ECO-S2AA122DA
	1500	1.16	2.10	22	45	P6702-ND	4.49	3.69	2.58	1.80	ECO-S2AA152BA
	1500	1.16	2.10	35	25	P6712-ND	4.97	4.08	2.86	1.99	ECO-S2AA152EA
	1800	1.27	2.30	25	45	P6728-ND	4.70	3.86	2.70	1.88	ECO-S2AA182CA
	1800	1.27	2.30	35	30	P6806-ND	4.57	3.87	2.79	2.09	ECO-S2AA182EA
	2200	1.40	2.60	25	50	P6994-ND	4.52	3.83	2.76	2.07	ECO-S2AA222CA
	2200	1.40	2.60	35	30	P6995-ND	5.04	4.27	3.07	2.31	ECO-S2AA222EA
	2700	1.55	2.90	30	45	P6807-ND	5.26	4.46	3.21	2.41	ECO-S2AA272DA
	2700	1.55	2.90	35	35	P6808-ND	5.62	4.76	3.42	2.57	ECO-S2AA272EA
	3300	1.72	3.20	30	50	P6809-ND	6.04	5.12	3.69	2.77	ECO-S2AA332DA
	3300	1.72	3.20	35	40	P6810-ND	6.43	5.44	3.92	2.94	ECO-S2AA332EA
	3900	1.87	3.60	35	45	P6811-ND	6.33	5.45	4.00	3.15	ECO-S2AA392EA
	4700	2.05	3.80	35	50	P6812-ND	7.87	6.78	4.97	3.91	ECO-S2AA472EA
200	100	0.42	0.50	22	25	P7517-ND	2.79	2.24	1.53	1.00	ECO-S2DA101BA
	150	0.51	0.68	22	25	P7518-ND	3.07	2.46	1.68	1.10	ECO-S2DA151BA
	220	0.62	1.00	20	30	P6813-ND	3.08	2.53	1.77	1.23	ECO-S2DA221AA
	220	0.62	1.00	22	25	P6814-ND	3.38	2.71	1.85	1.21	ECO-S2DA221BA
	270	0.69	1.10	20	35	P6815-ND	3.27	2.69	1.88	1.31	ECO-S2DA271AA
	270	0.69	1.10	25	25	P6816-ND	3.31	2.72	1.91	1.33	ECO-S2DA271CA
	330	0.77	1.20	20	40	P6817-ND	3.49	2.86	2.01	1.40	ECO-S2DA331AA
	330	0.77	1.20	25	25	P6818-ND	3.55	2.91	2.04	1.42	ECO-S2DA331CA
	390	0.83	1.30	22	35	P6819-ND	3.61	2.96	2.07	1.45	ECO-S2DA391BA
	390	0.83	1.30	30	25	P6820-ND	4.02	3.30	2.31	1.61	ECO-S2DA391DA
	470	0.91	1.40	22	40	P6821-ND	3.88	3.18	2.23	1.56	ECO-S2DA471BA
	470	0.91	1.40	30	25	P6822-ND	4.33	3.56	2.49	1.74	ECO-S2DA471DA
	560	1.00	1.50	22	45	P6823-ND	4.21	3.46	2.42	1.69	ECO-S2DA561BA
	560	1.00	1.50	30	30	P6824-ND	4.63	3.80	2.66	1.86	ECO-S2DA561DA
	680	1.10	1.70	25	40	P6825-ND	4.78	3.93	2.75	1.92	ECO-S2DA681CA
	680	1.10	1.70	30	30	P6826-ND	5.10	4.18	2.93	2.04	ECO-S2DA681DA
	820	1.21	2.00	25	50	P6829-ND	4.66	3.95	2.85	2.14	ECO-S2DA821CA
	820	1.21	2.00	35	30	P6830-ND	5.17	4.38	3.15	2.37	ECO-S2DA821EA
	1000	1.34	2.20	30	45	P6831-ND	5.41	4.58	3.30	2.48	ECO-S2DA102DA
	1000	1.34	2.20	35	35	P6832-ND	5.85	4.95	3.57	2.68	ECO-S2DA102EA
	1200	1.46	2.30	30	50	P6833-ND	6.14	5.20	3.74	2.81	ECO-S2DA122DA
	1200	1.46	2.30	35	40	P6834-ND	6.53	5.53	3.98	2.99	ECO-S2DA122EA
	1500	1.64	2.50	35	50	P6835-ND	6.85	5.91	4.33	3.41	ECO-S2DA152EA
400	33	0.34	0.30	22	25	P7519-ND	3.17	2.54	1.74	1.14	ECO-S2GA330BA
	47	0.41	0.43	22	25	P7520-ND	3.45	2.77	1.90	1.24	ECO-S2GA470BA
	56	0.44	0.51	20	30	P6836-ND	3.23	2.65	1.86	1.30	ECO-S2GA560AA
	56	0.44	0.51	22	25	P6837-ND	3.16	2.60	1.82	1.27	ECO-S2GA560BA
	68	0.49	0.56	20	35	P6838-ND	3.46	2.84	1.99	1.39	ECO-S2GA680AA
	68	0.49	0.56	25	25	P6839-ND	3.42	2.81	1.97	1.37	ECO-S2GA680CA
	82	0.54	0.64	20	40	P6840-ND	3.69	3.03	2.12	1.48	ECO-S2GA820AA
	82	0.54	0.64	25	25	P6841-ND	3.67	3.01	2.11	1.47	ECO-S2GA820CA
	100	0.60	0.69	22	35	P6842-ND	3.95	3.24	2.27	1.58	ECO-S2GA101BA
	100	0.60	0.69	25	30	P6843-ND	3.96	3.25	2.28	1.59	ECO-S2GA101CA
	120	0.65	0.75	22	40	P6844-ND	4.26	3.49	2.45	1.71	ECO-S2GA121BA
	120	0.65	0.75	30	25	P6845-ND	4.54	3.72	2.61	1.82	ECO-S2GA121DA
	150	0.73	0.82	22	50	P6846-ND	4.85	3.98	2.79	1.94	ECO-S2GA151BA
	150	0.73	0.82	30	30	P6847-ND	5.03	4.13	2.89	2.01	ECO-S2GA151DA
	180	0.80	0.90	25	45	P6848-ND	5.33	4.37	3.06	2.13	ECO-S2GA181CA
	180	0.80	0.90	35	25	P6849-ND	5.14	4.36	3.14	2.35	ECO-S2GA181EA
	220	0.88	1.00	25	50	P6850-ND	5.21	4.41	3.18	2.38	ECO-S2GA221CA
	220	0.88	1.00	35	30	P6851-ND	5.68	4.81	3.46	2.60	ECO-S2GA221EA
	270	0.98	1.10	30	45	P6852-ND	6.04	5.12	3.69	2.77	ECO-S2GA271DA
	270	0.98	1.10	35	35	P6853-ND	6.40	5.42	3.90	2.93	ECO-S2GA271EA
	330	1.08	1.20	30	50	P6854-ND	7.01	5.94	4.28	3.21	ECO-S2GA331DA
	330	1.08	1.20	35	40	P6855-ND	7.39	6.25	4.50	3.38	ECO-S2GA331EA
	390	1.18	1.30	35	45	P6856-ND	7.35	6.34	4.64	3.65	ECO-S2GA391EA
	470	1.30	1.40	35	50	P6857-ND	8.59	7.41	5.43	4.27	ECO-S2GA471EA
TSHB Compact Size, Long Life and High Ripple Current +105°C, 3000 Hour Life											
200	390	0.83	1.30	22	30	P10106-ND	3.51	2.88	2.02	1.41	ECO-S2DB391BA
	390	0.83	1.30	25	25	P10107-ND	3.74	3.07	2.15	1.50	ECO-S2DB391CA
	470	0.91	1.40	22	35	P10108-ND	3.83	3.15	2.20	1.54	ECO-S2DB471BA
	470	0.91	1.40	25	30	P10109-ND	3.99	3.27	2.29	1.60	ECO-S2DB471CA
	560	1.00	1.50	30	25	P10110-ND	4.63	3.80	2.66	1.85	ECO-S2DB561DA
	820	1.21	2.00	25	45	P10111-ND	4.54	3.84	2.77	2.08	ECO-S2DB821CA
	820	1.21	2.00	35	25	P10112-ND	5.17	4.38	3.15	2.37	ECO-S2DB821EA
	1000	1.34	2.20	25	50	P10113-ND	5.19	4.39	3.16	2.37	ECO-S2DB102CA
	1000	1.34	2.20	35	30	P10114-ND	5.76	4.88	3.51	2.64	ECO-S2DB102EA
	1200	1.46	2.30	30	40	P10115-ND	5.68	4.81	3.46	2.60	ECO-S2DB122DA
	1200	1.46	2.30	35	35	P10116-ND	6.44	5.46	3.93	2.95	ECO-S2DB122EA
	1500	1.64	2.50	30	50	P10117-ND	7.00	5.93	4.27	3.20	ECO-S2DB152DA
	1500	1.64	2.50	35	40	P10118-ND	7.37	6.24	4.49	3.37	ECO-S2DB152EA
	1800	1.80	2.70	35	45	P10119-ND	7.42	6.40	4.69	3.69	ECO-S2DB182EA
	2200	1.98	2.90	35	50	P10120-ND	8.79	7.58	5.55	4.37	ECO-S2DB222EA
250	330	0.86	1.20	25	30	P10121-ND	4.25	3.49	2.45	1.70	ECO-S2EB331CA
	390	0.93	1.30	30	25	P10122-ND	4.90	4.02	2.81	1.96	ECO-S2EB391DA
	470	1.02	1.40	22	50	P10123-ND	5.11	4.19	2.94	2.05	ECO-S2EB471BA
	470	1.02	1.40	30	30	P10124-ND	4.57	3.87	2.79	2.09	ECO-S2EB471DA
	560	1.12	1.50	25	45	P10125-ND	4.82	4.09	2.94	2.21	ECO-S2EB561CA
	560	1.12	1.50	35	25	P10126-ND	5.45	4.61	3.32	2.49	ECO-S2EB561EA
	680	1.23	1.70	25	50	P10127-ND	5.55	4.70	3.39	2.54	ECO-S2EB681CA
	680	1.23	1.70	35	30	P10128-ND	6.03	5.11	3.68	2.76	ECO-S2EB681EA
	820	1.35	2.00	30	45	P10129-ND	6.41	5.43	3.91	2.93	ECO-S2EB821DA
	820	1.35	2.00	35	35	P10130-ND	6.77	5.73	4.13	3.10	ECO-S2EB821EA
	1000	1.50	2.20	30	50	P10131-ND	7.43	6.29	4.53	3.40	ECO-S2EB102DA
	1000	1.50	2.20	35	40	P10132-ND	7.82	6.63	4.77	3.58	ECO-S2EB102EA
	1200	1.64	2.30	35	45	P10133-ND	8.93	7.70	6.77	5.33	ECO-S2EB122EA
	1500	1.83	2.50	35	50	P10134-ND	9.54	8.22	6.02	4.74	ECO-S2EB152EA

W.V. DC	Cap. (µF)	Max. DC (mA) Leakage Current	85° (rms) Ripple Current (120Hz) A	Dimensions (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
400	82	0.54	0.64	22	30	P10135-ND	3.59	2.95	2.07	1.44	ECO-S2GB820BA
	100	0.60	0.69	22	30	P10136-ND	3.93	3.23	2.26	1.58	ECO-S2GB101BA
	100	0.60	0.69	25	25	P10137-ND	4.00	3.29	2.30	1.60	ECO-S2GB101CA
	120	0.65	0.75	22	35	P10138-ND	4.29	3.52	2.47	1.72	ECO-S2GB121BA
	120	0.65	0.75	25	30	P10139-ND	4.29	3.52	2.46	1.72	ECO-S2GB121CA
	150	0.73	0.82	22	40	P10140-ND	4.82	3.95	2.77	1.93	ECO-S2GB151BA
	150	0.73	0.82	30	25	P10141-ND	5.11	4.19	2.93	2.05	ECO-S2GB151DA
	180	0.80	0.90	22	45	P10142-ND	4.53	3.84	2.77	2.08	ECO-S2GB181BA
	180	0.80	0.90	30	30	P10143-ND	4.74	4.01	2.89	2.17	ECO-S2GB181DA
	220	0.88	1.00	25	45	P10144-ND	5.13	4.34	3.13	2.35	ECO-S2GB221CA
	220	0.88	1.00	35	25	P10145-ND	5.77	4.89	3.52	2.64	ECO-S2GB221EA
	270	0.98	1.10	25	50	P10146-ND	5.92	5.02	3.61	2.71	ECO-S2GB271CA
	270	0.98	1.10	35	30	P10147-ND	6.39	5.41	3.90	2.92	ECO-S2GB271EA
	330	1.08	1.20	30	45	P10148-ND	6.29	5.43	3.98	3.13	ECO-S2GB331DA
	330	1.08	1.20	35	35	P10149-ND	6.63	5.72	4.19	3.30	ECO-S2GB331EA
	390	1.18	1.30	30	50	P10150-ND	7.19	6.20	4.54	3.57	ECO-S2GB391DA
	390	1.18	1.30	35	40	P10151-ND	7.54	6.50	4.77	3.75	ECO-S2GB391EA
	470	1.30	1.40	35	45	P10152-ND	8.37	7.22	5.29	4.16	ECO-S2GB471EA
	560	1.30	1.40	35	50	P10153-ND	8.83	7.79	5.82	4.82	ECO-S2GB561EA
450	82	0.57	0.56	22	30	P10154-ND	4.18	3.43	2.40	1.67	ECO-S2WB820BA
	100	0.63	0.64	22	35	P10155-ND	4.65	3.82	2.67	1.86	ECO-S2WB101BA
	100	0.63	0.64	25	30	P10156-ND	4.56	3.74	2.62	1.83	ECO-S2WB101CA
	120	0.69	0.72	22	40	P10157-ND	5.08	4.17	2.92	2.04	ECO-S2WB121BA
	120	0.69	0.72	25	35	P10158-ND	5.01	4.11	2.88	2.01	ECO-S2WB121CA
	150	0.77	0.79	22	50	P10159-ND	5.86	4.80	3.36	2.34	ECO-S2WB151BA
	150	0.77	0.79	30	30	P10160-ND	5.15	4.37	3.14	2.36	ECO-S2WB151DA
	180	0.85	0.87	25	45	P10161-ND	5.57	4.72	3.40	2.55	ECO-S2WB181CA
	180	0.85	0.87	30	35	P10162-ND	5.76	4.88	3.51	2.64	ECO-S2WB181DA
	220	0.94	1.00	25	50	P10163-ND	6.48	5.49	3.95	2.96	ECO-S2WB221CA
	220	0.94	1.00	30	40	P10164-ND	6.57	5.56	4.01	3.01	ECO-S2WB221DA
	270	1.04	1.19	30	45	P10165-ND	7.58	6.42	4.62	3.47	ECO-S2WB271DA
	270	1.04	1.19	35	35	P10166-ND	7.95	6.73	4.85	3.64	ECO-S2WB271EA
	330	1.15	1.38	30	50	P10167-ND	8.12	7.01	5.13	4.04	ECO-S2WB331DA
	330	1.15	1.38	35	40	P10168-ND	8.37	7.22	5.29	4.16	ECO-S2WB331EA
	390	1.25	1.55	35	45	P10169-ND	9.36	8.07	5.91	4.65	ECO-S2WB391EA
	470	1.37	1.74	35	50	P10170-ND	12.55	11.06	9.93	8.22	ECO-S2WB471EA

W.V. DC	Cap. (µF)	105° (rms) Ripple Current (120Hz) A	ESR (max.) @20°C 120Hz Ω	Dimensions (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
TSED Very High Ripple Current +105°C, 3000 Hour Life											
200	270	1.42	0.553	22	25	P11609-ND	3.00	2.40	1.97	1.29	EET-ED2D271BA
	330	1.56	0.452	22	30	P11610-ND	3.11	2.49	2.05	1.34	EET-ED2D331BA
	390	1.71	0.383	22	30	P11611-ND	3.37	2.70	2.22	1.45	EET-ED2D391BA
	390	1.71	0.383	25	25	P11612-ND	3.44	2.76	2.27	1.48	EET-ED2D391CA
	470	1.85	0.317	22	35	P11613-ND	3.18	2.61	2.20	1.53	EET-ED2D471BA
	470	1.85	0.317	25	30	P11614-ND	3.20	2.63	2.21	1.54	EET-ED2D471CA
	560	2.14	0.266	22	40	P11615-ND	3.43	2.82	2.37	1.65	EET-ED2D561BA
	560	2.14	0.266	25	30	P11616-ND	3.46	2.84	2.38	1.66	EET-ED2D561CA
	560	2.14	0.266	30	25	P11617-ND	4.65	3.81	3.21	2.23	EET-ED2D561DA
	680	2.42	0.219	22	45	P11618-ND	3.77	3.09	2.60	1.81	EET-ED2D681BA
	680	2.42	0.219	25	35	P11619-ND	3.81	3.12	2.63	1.83	EET-ED2D681CA
	680	2.42	0.219	30	30	P11620-ND	4.65	3.82	3.21	2.24	EET-ED2D681DA
	820	2.63	0.182	22	50	P11621-ND	4.18	3.43	2.89	2.01	EET-ED2D821BA
	820	2.63	0.182	25	40	P11622-ND	4.18	3.43	2.88	2.01	EET-ED2D821CA
	820	2.63	0.182	30	30	P11623-ND	4.63	3.80	3.19	2.23	EET-ED2D821DA
	820	2.63	0.182	35	25	P11624-ND	5.82	4.77	4.01	2.80	EET-ED2D821EA
	1000	2.84	0.149	25	45	P11600-ND	4.84	3.97	3.34	2.33	EET-ED2D102CA
	1000	2.84	0.149	30	35	P11601-ND	5.66	4.64	3.90	2.72	EET-ED2D102DA
	1000	2.84	0.149	35	30	P11602-ND	5.76	4.73	3.97	2.77	EET-ED2D102EA
	1200	3.13	0.124	30	40	P11603-ND	5.75	4.72	3.96	2.76	EET-ED2D122DA
	1200	3.13	0.124	35	35	P11604-ND	5.29	4.48	3.87	2.91	EET-ED2D122EA
	1500	3.56	0.099	30	50	P11605-ND	5.82	4.93	4.26	3.20	EET-ED2D152DA
	1500	3.56	0.099	35	40	P11606-ND	6.13	5.19	4.48	3.36	EET-ED2D152EA
	1800	3.84	0.083	35	45	P11607-ND	6.81	5.77	4.98	3.74	EET-ED2D182EA
	2200	4.12	0.068	35	50	P11608-ND	8.16	6.91	5.97	4.48	EET-ED2D222EA
250	220	1.28	0.678	22	30	P11628-ND	3.31	2.65	2.18	1.42	EET-ED2E221BA
	270	1.42	0.553	22	30	P11629-ND	3.18	2.61	2.19	1.53	EET-ED2E271BA
	270	1.42	0.553	25	25	P11630-ND	3.24	2.66	2.24	1.56	EET-ED2E271CA
	330	1.64	0.452	22	35	P11631-ND	3.49	2.86	2.40	1.68	EET-ED2E331BA
	330	1.56	0.452	25	30	P11632-ND	3.52	2.89	2.43	1.69	EET-ED2E331CA
	390	1.72	0.383	22	40	P11633-ND	3.78	3.10	2.61	1.82	EET-ED2E391BA
	390	1.71	0.383	25	30	P11634-ND	3.81	3.13	2.63	1.83	EET-ED2E391CA
	390	1.71	0.383	30	25	P11635-ND	4.05	3.32	2.79	1.95	EET-ED2E391DA
	470	1.85	0.317	22	45	P11636-ND	4.16	3.41	2.87	2.00	EET-ED2E471BA
	470	1.85	0.317	25	35	P11637-ND	4.22	3.46	2.91	2.03	EET-ED2E471CA
	470	1.85	0.317	30	30	P11638-ND	4.88	4.00	3.36	2.34	EET-ED2E471DA
	560	2.14	0.266	25	40	P11639-ND	4.66	3.83	3.22	2.24	EET-ED2E561CA
	560	2.14	0.266	30	30	P11640-ND	5.32	4.36	3.67	2.56	EET-ED2E561DA
	680	2.42	0.219	25	45	P11641-ND	5.23	4.29	3.60	2.51	EET-ED2E681CA
	680	2.42	0.219	30	35	P11642-ND	5.92	4.86	4.08	2.84	EET-ED2E681DA
	680	2.42	0.219	35	30	P11643-ND	6.04	4.95	4.16	2.90	EET-ED2E681EA
	820	2.63	0.182	30	40	P11644-ND	5.63	4.77	4.12	3.09	EET-ED2E821DA
	820	2.63	0.182	35	35	P11645-ND	5.74	4.87	4.20	3.15	EET-ED2E821EA
	1000	2.84	0.149	30	50	P11625-ND	6.11	5.17	4.47	3.35	EET-ED2E102DA
	1000	2.84	0.149	35	40	P11626-ND	6.42	5.44	4.70	3.52	EET-ED2E102EA
	1500	3.56	0.099	35	50	P11627-ND	7.88	6.79	5.97	4.70	EET-ED2E152EA
400	82	0.80	1.617	22	25	P11667-ND	3.49	2.79	2.30	1.50	EET-ED2G820BA
	100	0.91	1.326	22	30	P11646-ND	3.29	2.70	2.27	1.58	EET-ED2G101BA
	100	0.91	1.326	25	25	P11647-ND	3.33	2.74	2.30	1.60	EET-ED2G101CA
	150	1.07	0.884	22	40	P11648-ND	4.01	3.29	2.76	1.93	EET-ED2G151BA
	150	1.07	0.884	25	30	P11649-ND	4.02	3.30	2.77	1.93	EET-ED2G151CA
	150	1.07	0.884	30	25	P11650-ND	4.80	3.94	3.31	2.31	EET-ED2G151DA
	180	1.12	0.737	22	45	P11651-ND	4.44	3.64	3.06	2.13	EET-ED2G181BA
	180	1.12	0.737	25	35	P11652-ND	4.47	3.67	3.08	2.15	EET-ED2G181CA
	180	1.12	0.737	30	30	P11653-ND	5.23	4.29	3.61	2.51	EET-ED2G181DA
	220	1.42	0.603	22	50	P11654-ND	5.09	4.17	3.51	2.44	EET-ED2G221BA
	220	1.42	0.603	25	40	P11655-ND	5.03	4.13	3.47	2.42	EET-ED2G221CA
	220	1.42	0.603	30	30	P11656-ND	5.46	4.48	3.77	2.62	EET-ED2G221DA
	220	1.42	0.603	35	25	P11657-ND	5.96	4.89	4.11	2.86	EET-ED2G221EA
	270	1.56	0.491	25	45	P11658-ND	5.76	4.72	3.97	2.77	EET-ED2G271CA
	270	1.56	0.491	30	35	P11659-ND	5.65	4.79	4.13	3.10	EET-ED2G271DA
	270	1.56	0.491	35	30	P11660-ND	5.67	4.81	4.15	3.12	EET-ED2G271EA
	330	1.71	0.402	30	40	P11661-ND	6.07	5.14	4.44	3.33	EET-ED2G331DA
	330	1.71	0.402	35	30	P11662-ND	6.35	5.38	4.65	3.49	EET-ED2G331EA
	390	1.85	0.340	30	45	P11663-ND	7.20	6.10	5.27	3.95	EET-ED2G391DA
	390	1.85	0.340	35	35	P11664-ND	7.13	6.04	5.22	3.91	EET-ED2G391EA

(Continued)

Panasonic® TS-Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	105° (rms) Ripple Current (120Hz) A	ESR (max.) @20°C 120Hz Ω	Dimensions (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
TSED Very High Ripple Current +105°C, 3000 Hour Life											
400	470	2.01	0.282	35	40	P11665-ND	8.24	6.97	6.02	4.52	EET-ED2G471EA
	560	2.35	0.237	35	45	P11666-ND	8.37	7.22	6.35	4.99	EET-ED2G561EA
450	56	0.67	2.368	22	25	P11690-ND	3.42	2.74	2.25	1.47	EET-ED2W560BA
	68	0.76	1.950	22	30	P11692-ND	3.23	2.65	2.23	1.56	EET-ED2W680BA
	68	0.76	1.950	25	25	P11693-ND	3.29	2.70	2.27	1.58	EET-ED2W680CA
	82	0.80	1.617	22	30	P11694-ND	3.50	2.87	2.41	1.68	EET-ED2W820BA
	82	0.80	1.617	25	25	P11695-ND	3.55	2.92	2.45	1.71	EET-ED2W820CA
	100	0.91	1.326	22	35	P11668-ND	3.88	3.18	2.67	1.86	EET-ED2W101BA
	100	0.91	1.326	25	30	P11669-ND	3.92	3.21	2.70	1.88	EET-ED2W101CA
	120	1.02	1.105	22	40	P11670-ND	4.25	3.49	2.93	2.04	EET-ED2W121BA
	120	1.02	1.105	25	35	P11671-ND	4.30	3.53	2.96	2.07	EET-ED2W121CA
	120	1.02	1.105	30	25	P11672-ND	5.01	4.11	3.45	2.41	EET-ED2W121DA
	150	1.07	0.884	22	45	P11673-ND	4.88	4.00	3.36	2.34	EET-ED2W151BA
	150	1.07	0.884	25	40	P11674-ND	4.91	4.03	3.39	2.36	EET-ED2W151CA
	150	1.07	0.884	30	30	P11675-ND	5.15	4.23	3.55	2.48	EET-ED2W151DA
	150	1.07	0.884	35	25	P11676-ND	5.74	4.71	3.96	2.76	EET-ED2W151EA
	180	1.12	0.737	22	50	P11677-ND	5.55	4.55	3.83	2.67	EET-ED2W181BA
	180	1.12	0.737	25	40	P11678-ND	5.51	4.52	3.80	2.65	EET-ED2W181CA
	180	1.12	0.737	30	30	P11679-ND	5.27	4.47	3.86	2.89	EET-ED2W181DA
	180	1.12	0.737	35	25	P11680-ND	5.42	4.59	3.97	2.98	EET-ED2W181EA
	220	1.42	0.603	25	45	P11681-ND	5.51	4.67	4.03	3.03	EET-ED2W221CA
	220	1.42	0.603	30	35	P11682-ND	5.57	4.72	4.08	3.06	EET-ED2W221DA
	220	1.42	0.603	35	30	P11683-ND	5.90	4.99	4.31	3.24	EET-ED2W221EA
	270	1.72	0.491	30	40	P11684-ND	6.41	5.43	4.69	3.52	EET-ED2W271DA
	270	1.72	0.491	35	35	P11685-ND	6.74	5.70	4.93	3.70	EET-ED2W271EA
	330	1.85	0.402	30	50	P11686-ND	7.52	6.37	5.50	4.13	EET-ED2W331DA
	330	1.85	0.402	35	40	P11687-ND	7.86	6.66	5.75	4.31	EET-ED2W331EA
	390	1.97	0.340	35	40	P11688-ND	8.01	6.91	6.07	4.78	EET-ED2W391EA
	470	2.47	0.282	35	50	P11689-ND	9.34	8.05	7.08	5.57	EET-ED2W471EA
	560	3.50	0.236	25	50	P11691-ND	11.92	10.51	9.43	7.81	EET-ED2W561EA
TSHC Highly Miniaturized Version +105°C, 2000 Hour Life											
160	470	1.40	0.423	22	25	P11709-ND	3.02	2.42	1.99	1.30	EET-HC2C471BA
	560	1.50	0.355	22	30	P11710-ND	3.22	2.58	2.12	1.38	EET-HC2C561BA
	680	1.70	0.293	22	30	P11711-ND	3.45	2.76	2.27	1.48	EET-HC2C681BA
	680	1.70	0.293	25	25	P11712-ND	3.08	2.53	2.13	1.48	EET-HC2C681CA
	820	2.00	0.243	22	35	P11713-ND	3.56	2.92	2.45	1.71	EET-HC2C821BA
	820	2.00	0.243	25	30	P11714-ND	3.33	2.73	2.30	1.60	EET-HC2C821CA
	1000	2.20	0.199	22	40	P11696-ND	3.59	2.95	2.48	1.73	EET-HC2C102BA
	1000	2.20	0.199	25	35	P11697-ND	3.64	2.98	2.51	1.75	EET-HC2C102CA
	1000	2.20	0.216	30	25	P11698-ND	4.36	3.58	3.01	2.10	EET-HC2C102DA
	1500	2.50	0.133	25	45	P11699-ND	4.56	3.74	3.15	2.19	EET-HC2C152CA
	1500	2.50	0.133	30	35	P11700-ND	5.25	4.30	3.62	2.52	EET-HC2C152DA
	1800	2.70	0.111	25	50	P11701-ND	5.15	4.23	3.55	2.48	EET-HC2C182CA
	1800	2.70	0.111	30	40	P11702-ND	5.77	4.74	3.98	2.77	EET-HC2C182DA
	1800	2.70	0.120	35	30	P11703-ND	5.35	4.53	3.91	2.93	EET-HC2C182EA
	2200	2.90	0.090	30	45	P11704-ND	5.58	4.72	4.08	3.06	EET-HC2C222DA
	2200	2.90	0.098	35	35	P11705-ND	6.03	5.11	4.41	3.31	EET-HC2C222EA
	2700	3.10	0.080	30	50	P11706-ND	6.37	5.39	4.66	3.50	EET-HC2C272DA
	2700	3.10	0.086	35	40	P11707-ND	6.99	5.92	5.11	3.84	EET-HC2C272EA
	3300	3.30	0.070	35	50	P11708-ND	7.98	6.76	5.84	4.38	EET-HC2C332EA
200	390	1.31	0.510	22	25	P11728-ND	3.22	2.58	2.12	1.39	EET-HC2D391BA
	470	1.45	0.423	22	30	P11729-ND	3.48	2.79	2.29	1.49	EET-HC2D471BA
	560	1.67	0.355	22	30	P11730-ND	3.26	2.68	2.25	1.57	EET-HC2D561BA
	680	1.75	0.293	22	40	P11731-ND	3.57	2.93	2.46	1.72	EET-HC2D681BA
	680	1.75	0.293	25	30	P11732-ND	3.62	2.97	2.49	1.74	EET-HC2D681CA
	820	2.04	0.243	22	45	P11733-ND	3.94	3.23	2.72	1.89	EET-HC2D821BA
	820	2.04	0.243	25	35	P11734-ND	3.96	3.25	2.73	1.90	EET-HC2D821CA
	820	2.04	0.243	30	25	P11735-ND	4.68	3.84	3.23	2.25	EET-HC2D821DA
	1000	2.30	0.199	22	50	P11715-ND	4.46	3.66	3.07	2.14	EET-HC2D102BA
	1000	2.30	0.199	25	45	P11716-ND	4.45	3.65	3.07	2.14	EET-HC2D102CA
	1000	2.30	0.199	30	30	P11717-ND	5.14	4.22	3.54	2.47	EET-HC2D102DA
	1000	2.30	0.216	35	25	P11718-ND	5.51	4.52	3.80	2.65	EET-HC2D102EA
	1200	2.65	0.166	25	50	P11719-ND	5.01	4.11	3.46	2.41	EET-HC2D122CA
	1200	2.65	0.166	30	35	P11720-ND	5.67	4.65	3.91	2.72	EET-HC2D122DA
	1200	2.65	0.180	35	30	P11721-ND	6.03	4.95	4.16	2.90	EET-HC2D122EA
	1500	2.80	0.133	30	40	P11722-ND	5.48	4.64	4.01	3.01	EET-HC2D152DA
	1500	2.80	0.144	35	30	P11723-ND	5.83	4.94	4.27	3.20	EET-HC2D152EA
	1800	3.08	0.111	30	45	P11724-ND	6.14	5.20	4.49	3.37	EET-HC2D182DA
	1800	3.08	0.129	35	40	P11725-ND	6.55	5.54	4.79	3.59	EET-HC2D182EA
	2200	3.48	0.090	30	50	P11726-ND	7.11	6.02	5.20	3.90	EET-HC2D222DA
	2200	3.48	0.098	35	45	P11727-ND	7.49	6.34	5.48	4.11	EET-HC2D222EA
250	270	1.10	0.614	22	25	P11740-ND	3.23	2.59	2.13	1.39	EET-HC2E271BA
	330	1.20	0.502	22	30	P11741-ND	3.06	2.51	2.11	1.47	EET-HC2E331BA
	330	1.20	0.502	25	25	P11742-ND	3.11	2.55	2.14	1.49	EET-HC2E331CA
	390	1.30	0.425	22	35	P11743-ND	3.29	2.70	2.27	1.58	EET-HC2E391BA
	390	1.30	0.425	25	25	P11744-ND	3.33	2.73	2.30	1.60	EET-HC2E391CA
	470	1.40	0.353	22	40	P11745-ND	3.58	2.94	2.47	1.72	EET-HC2E471BA
	470	1.40	0.353	25	30	P11746-ND	3.65	3.00	2.52	1.76	EET-HC2E471CA
	470	1.40	0.353	30	25	P11747-ND	4.32	3.54	2.98	2.08	EET-HC2E471DA
	560	1.50	0.296	22	45	P11748-ND	3.94	3.23	2.72	1.89	EET-HC2E561BA
	560	1.50	0.296	25	35	P11749-ND	3.97	3.26	2.74	1.91	EET-HC2E561CA
	560	1.50	0.296	30	25	P11750-ND	4.70	3.85	3.24	2.26	EET-HC2E561DA
	680	1.70	0.244	22	50	P11751-ND	4.42	3.63	3.05	2.13	EET-HC2E681BA
	680	1.70	0.244	25	40	P11752-ND	4.42	3.62	3.05	2.12	EET-HC2E681CA
	680	1.70	0.244	30	30	P11753-ND	5.10	4.19	3.52	2.45	EET-HC2E681DA
	820	2.00	0.202	25	45	P11754-ND	4.96	4.07	3.42	2.38	EET-HC2E821CA
	820	2.00	0.202	30	35	P11755-ND	5.64	4.63	3.89	2.71	EET-HC2E821DA
	820	2.00	0.202	35	30	P11756-ND	5.35	4.53	3.91	2.94	EET-HC2E821EA
	1000	2.20	0.166	30	40	P11736-ND	5.37	4.55	3.93	2.95	EET-HC2E102DA
	1200	2.30	0.138	30	45	P11737-ND	6.05	5.12	4.42	3.32	EET-HC2E122DA
	1500	2.50	0.111	35	45	P11738-ND	7.84	6.64	5.74	4.30	EET-HC2E152EA
	1800	2.70	0.092	35	50	P11739-ND	8.18	7.05	6.20	4.88	EET-HC2E182EA
350	120	0.75	1.382	22	25	P11780-ND	3.47	2.78	2.29	1.49	EET-HC2V121BA
	150	0.82	1.105	22	30	P11781-ND	3.34	2.74	2.30	1.61	EET-HC2V151BA
	180	0.90	0.921	22	30	P11782-ND	3.99	3.27	2.75	1.92	EET-HC2V181BA
	180	0.90	0.921	25	25	P11783-ND	4.05	3.32	2.79	1.95	EET-HC2V181CA
350	220	1.00	0.754	22	35	P11784-ND	4.11	3.37	2.83	1.97	EET-HC2V221BA
	220	1.00	0.754	25	30	P11785-ND	4.12	3.38	2.84	1.98	EET-HC2V221CA
	270	1.10	0.614	25	35	P11786-ND	4.60	3.77	3.17	2.21	EET-HC2V271CA
	270	1.10	0.614	30	25	P11787-ND	5.40	4.43	3.72	2.59	EET-HC2V271DA
	330	1.20	0.502	25	40	P11788-ND	5.25	4.31	3.62	2.52	EET-HC2V331CA
	330	1.20	0.502	30	30	P11789-ND	5.93	4.86	4.09	2.85	EET-HC2V331DA
	390	1.30	0.425	25	45	P11790-ND	5.83	4.78	4.02	2.80	EET-HC2V391CA
	390	1.30	0.425	30	35	P11791-ND	5.56	4.71	4.07	3.05	EET-HC2V391DA
	470	1.40	0.353	25	50	P11792-ND	5.82	4.93	4.26	3.20	EET-HC2V471CA
	470	1.40	0.353	35	30	P11793-ND	6.42	5.43	4.69	3.52	EET-HC2V471EA
	560	1.50	0.296	30	45	P11794-ND	7.02	5.94	5.13	3.85	EET-HC2V561DA
	560	1.50	0.296	35	35	P11795-ND	7.18	6.08	5.25	3.94	EET-HC2V561EA
	680	1.70	0.244	30	50	P11796-ND	8.15	6.90	5.96	4.47	EET-HC2V681DA
	680	1.70	0.244	35	40	P11797-ND	8.19	6.93	5.99	4.49	EET-HC2V681EA
	820	1.90	0.202	35	45	P11798-ND	8.48	7.31	6.43	5.06	EET-HC2V821EA
400	100	0.70	1.824	22	25	P11757-ND	3.08	2.53	2.12	1.48	EET-HC2G101BA
	120	0.75	1.520	22	30	P11758-ND	3.35	2.75	2.31	1.61	EET-HC2G121BA
	150	0.88	1.216	22	30	P11759-ND	3.76	3.09	2.59	1.81	EET-HC2G151BA
	180	0.95	1.013	22	35	P11760-ND	4.17	3.42	2.88	2.01	EET-HC2G181BA
	180	0.95	1.013	25	30	P11761-ND	4.20	3.44	2.89	2.02	EET-HC2G181CA
	220	1.10	0.829	22	45	P11762-ND	4.62	3.79	3.19	2.22	EET-HC2G221BA
	220	1.10	0.829	25	35	P11763-ND	4.64	3.81	3.20	2.23	EET-HC2G221CA
	220	1.10	0.829	30	25	P11764-ND	5.04	4.13	3.47	2.42	EET-HC2G221DA
	270	1.22	0.675	22	50	P11765-ND	5.33	4.37	3.67	2.56	EET-HC2G271BA
	270	1.22	0.675	25	40	P11766-ND	5.38	4.41	3.71	2.58	EET-HC2G271CA
	270	1.22	0.675	30	30	P11767-ND	6.01	4.93	4.14	2.89	EET-HC2G271DA
	270	1.22	0.675	35	25	P11768-ND	5.32	4.51	3.89	2.92	EET-HC2G271EA
	330	1.44	0.553	25	45	P11769-ND	5.49	4.65	4.02	3.01	EET-HC2G331CA
	330	1.44	0.553	30	35	P11770-ND	5.56	4.71	4.07	3.05	EET-HC2G331DA
	330	1.44	0.553	35	30	P11771-ND	5.93	5.03	4.34	3.26	EET-HC2G331EA
	390	1.55	0.468	25	50	P11772-ND	6.01	5.09	4.40	3.30	EET-HC2G391CA
	390	1.55	0.468	30	40	P11773-ND	6.45	5.46	4.72	3.54	EET-HC2G391DA
	390	1.55	0.468	35	30	P11774-ND	6.50	5.50	4.75	3.57	EET-HC2G391EA
	470	1.68	0.388	30	45	P11775-ND	7.10	6.01	5.20	3.90	EET-HC2G471DA
	470	1.68	0.388	35	35	P11776-ND	7.56	6.40	5.53	4.15	EET-HC2G471EA
	560	1.90	0.326	30	50	P11777-ND	8.42	7.13	6.16	4.62	EET-HC2G561DA
	560	1.90	0.326	35	40	P11778-ND	7.73	6.67	5.86	4.61	EET-HC2G561EA
	680	2.12	0.268	35	45	P11779-ND	8.94	7.70	6.77	5.33	EET-HC2G681EA
450	100	0.64	1.824	22	30	P11799-ND	3.62	2.97	2.49	1.74	EET-HC2W101BA
	100	0.64	1.824	25	25	P11800-ND	3.69	3.03	2.54	1.77	EET-HC2W101CA
	120	0.72	1.520	22	35	P11801-ND	3.98	3.26	2.74	1.91	EET-HC2W121BA
	120	0.72	1.520	25	30	P11802-ND	4.03	3.31	2.78	1.94	EET-HC2W121CA
	150	0.79	1.216	22	40	P11803-ND	4.51	3.70	3.11	2.17	EET-HC2W151BA
	150	0.79	1.216	25	30	P11804-ND	4.55	3.73	3.14	2.19	EET-HC2W151CA
	150	0.79	1.216	30	25	P11805-ND	5.30	4.35	3.66	2.55	EET-HC2W151DA
	180	0.87	1.013	22	45	P11806-ND	5.03	4.13	3.47	2.42	EET-HC2W181BA
	180	0.87	1.013	25	40	P11807-ND	5.09	4.18	3.51	2.45	EET-HC2W181CA
	180	0.87	1.013	30	30	P11808-ND	5.82	4.77	4.01	2.79	EET-HC2W181DA
	220	1.00	0.829	25	45	P11809-ND	5.78	4.74	3.98	2.78	EET-HC2W221CA
	220	1.00	0.829	30	30	P11810-ND	5.36	4.54	3.92	2.94	EET-HC2W221DA
	220	1.00	0.829	35	25	P11811-ND	5.75	4.87	4.21	3.16	EET-HC2W221EA
	270	1.19	0.675	25	50	P11812-ND	5.79	4.90	4.23	3.18	EET-HC2W271CA
	270	1.19	0.675	30	40	P11813-ND	6.15	5.21	4.50	3.37	EET-HC2W271DA
	270	1.19	0.675	35	30	P11814-ND	6.48	5.49	4.74	3.56	EET-HC2W271EA
	330	1.38	0.553	30	45	P11815-ND	7.20	6.10	5.27	3.95	EET-HC2W331DA
	330	1.38	0.553	35	35	P11816-ND	7.18	6.08	5.25	3.94	EET-HC2W331EA
	390	1.55	0.468	30	50	P11817-ND	8.21	6.95	6.01	4.51	EET-HC2W391DA
	390	1.55	0.468	35	40	P11818-ND	8.26	7.00	6.04	4.53	EET-HC2W391EA
	470	1.74	0.388	35	45	P11819-ND	8.54	7.36	6.47	5.09	EET-HC2W471EA
	560	1.90	0.326	35	50	P11820-ND	9.94	8.57	7.54	5.93	EET-HC2W561EA
TSUQ Highly Miniaturized Version +85°C, 2000 Hour Life											
160	560	2.25	0.355	22	25	P11839-ND§	3.18	2.55	2.10	1.37	EET-UQ2C561BA
	680	2.50	0.293	22	30	P11840-ND§	3.43	2.74	2.26	1.47	EET-UQ2C681BA
	820	2.75	0.243	22	35	P11841-ND§	3.25	2.66	2.24	1.56	EET-UQ2C821BA
	1000	3.00	0.199	22	40	P11821-ND§	3.55	2.91	2.45	1.71	EET-UQ2C102BA
	1000	3.00	0.199	25	30	P11822-ND§	3.61	2.96	2.49	1.73	EET-UQ2C102CA
	1200	3.25	0.166	22	45	P11823-ND§	3.92	3.22	2.71	1.89	EET-UQ2C122BA
	1200	3.25	0.166	25	35	P11824-ND§	3.95	3.24	2.72	1.90	EET-UQ2C122CA
	1200	3.25	0.166	30	25	P11825-ND§	4.66	3.83	3.22	2.24	EET-UQ2C122DA
	1500	3.73	0.133	22	50	P11826-ND§	4.49	3.68	3.09	2.16	EET-UQ2C152BA
	1500	3.73	0.133	25	40	P11827-ND§	4.78	3.92	3.29	2.30	EET-UQ2C152CA
	1500	3.73	0.133	30	30	P11828-ND§	5.16	4.24	3.56	2.48	EET-UQ2C152DA
	1500	3.73	0.133	35	25	P11829-ND§	5.54	4.54	3.82	2.66	EET-UQ2C152EA
	1800	4.20	0.111	25	45	P11830-ND§	5.01	4.11	3.45	2.41	EET-UQ2C182CA
	1800	4.20	0.120	30	35	P11831-ND§	5.69	4.67	3.92	2.73	EET-UQ2C182DA
	1800	4.20	0.111	35	30	P11832-ND§	6.06	4.97	4.18	2.91	EET-UQ2C182EA
	2200	4.78	0.090	30	40	P11833-ND§	5.45	4.62	3.99	2.99	EET-UQ2C222DA
	2200	4.78	0.098	35	35	P11834-ND§	5.80	4.91	4.25	3.19	EET-UQ2C222EA
	2700	5.45	0.074	30	45	P11835-ND§	6.19	5.24	4.53	3.40	EET-UQ2C272DA
	2700	5.45	0.080	35	40	P11836-ND§	6.59	5.58	4.82	3.61	EET-UQ2C272EA
	3300	5.75	0.070	35	45	P11837-ND§	7.56	6.40	5.53	4.15	EET-UQ2C332EA
	3900	6.00	0.055	35	50	P11838-ND§	7.75	6.68	5.87	4.62	EET-UQ2C392EA
200	390	1.68	0.510	22	25	P11856-ND§	3.10	2.48	2.04	1.33	EET-UQ2D391BA
	470	1.85	0.423	22	30	P11857-ND§	3.34	2.68	2.20	1.44	EET-UQ2D471BA
	560	2.43	0.355	22	30	P11858-ND§	3.12	2.56	2.15	1.50	EET-UQ2D561BA
	560	2.43	0.355	25	25	P11859-ND§	3.18	2.61	2.19	1.53	EET-UQ2D561CA
	680	2.68	0.293	22	35	P11860-ND§	3.40	2.79	2.35	1.64	EET-UQ2D681BA
	680	2.68	0.293	25	30	P11861-ND§	3.45	2.83	2.38	1.66	EET-UQ2D681CA
	820	2.93	0.243	25	30	P11862-ND§	3.75	3.08	2.59	1.80	EET-UQ2D821CA
	820	2.93	0.243	30	25	P11863-ND§	4.48	3.68	3.09	2.15	EET-UQ2D821DA
	1000	3.25	0.199	22	45	P11842-ND§	4.13	3.39	2.85	1.99	EET-UQ2D102BA
	1000	3.25	0.199	25	35	P11843-ND§	4.16	3.41	2.87	2.00	EET-UQ2D102CA
	1000	3.25	0.199	30	30	P11844-ND§	4.66	3.83	3.22	2.24	EET-UQ2D102DA
	1000	3.25	0.232	35	25	P11845-ND§	5.23	4.29	3.61	2.51	EET-UQ2D102EA
	1200	3.50	0.166	25	40	P11846-ND§	4.64	3.81	3.20	2.23	EET-UQ2D122CA
	1200	3.5	0.166	30	30	P11847-ND§	5.32	4.37	3.67	2.56	EET-UQ2D122DA
	1500	3.87	0.133	25	50	P11848-ND§	5.40	4.43	3.72	2.59	EET-UQ2D152CA
	1500	3.87	0.144	30	35	P11849-ND§	6.02	4.94	4.15	2.89	EET-UQ2D152DA

§ TSUQ Series Ripple Current is at 85°C

(Continued)

Panasonic® TS-Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	85° (rms) Ripple Current (120Hz) A	ESR (max.) @20°C 120Hz Ω	Dimensions (mm) D	L	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
TSUQ Highly Miniaturized Version +85°C, 2000 Hour Life											
200	1500	3.87	0.144	35	30	P11850-ND	5.49	4.65	4.02	3.02	EET-UQ2D152EA
	1800	4.32	0.120	30	45	P11851-ND	5.74	4.86	4.20	3.15	EET-UQ2D182DA
	1800	4.32	0.120	35	35	P11852-ND	6.14	5.20	4.49	3.37	EET-UQ2D182EA
	2200	4.92	0.098	30	50	P11853-ND	6.61	5.60	4.84	3.63	EET-UQ2D222DA
	2200	4.92	0.105	35	40	P11854-ND	7.03	5.95	5.14	3.86	EET-UQ2D222EA
	2700	5.45	0.086	35	50	P11855-ND	8.12	6.88	5.94	4.46	EET-UQ2D272EA
250	270	1.31	0.737	22	25	P11872-ND	3.17	2.54	2.09	1.36	EET-UQ2E271BA
	330	1.75	0.603	22	30	P11873-ND	3.43	2.74	2.26	1.47	EET-UQ2E331BA
	390	1.91	0.510	22	30	P11874-ND	3.20	2.62	2.21	1.54	EET-UQ2E391BA
	390	1.91	0.510	25	25	P11875-ND	3.25	2.67	2.24	1.56	EET-UQ2E391CA
	470	2.11	0.423	22	35	P11876-ND	3.49	2.86	2.41	1.68	EET-UQ2E471BA
	470	2.11	0.423	25	30	P11877-ND	3.53	2.90	2.44	1.70	EET-UQ2E471CA
	560	2.25	0.355	22	40	P11878-ND	3.81	3.13	2.63	1.83	EET-UQ2E561BA
	560	2.25	0.355	25	30	P11879-ND	3.87	3.17	2.67	1.86	EET-UQ2E561CA
	560	2.25	0.355	30	25	P11880-ND	4.36	3.58	3.01	2.10	EET-UQ2E561DA
	680	2.50	0.293	22	45	P11881-ND	4.24	3.48	2.92	2.04	EET-UQ2E681BA
	680	2.50	0.293	25	35	P11882-ND	4.28	3.51	2.95	2.06	EET-UQ2E681CA
	680	2.50	0.293	30	30	P11883-ND	4.97	4.07	3.42	2.39	EET-UQ2E681DA
	820	2.77	0.243	22	50	P11884-ND	4.79	3.93	3.30	2.30	EET-UQ2E821BA
	820	2.77	0.243	25	40	P11885-ND	4.78	3.92	3.29	2.30	EET-UQ2E821CA
	820	2.77	0.243	30	30	P11886-ND	5.27	4.32	3.63	2.53	EET-UQ2E821DA
	820	2.77	0.243	35	25	P11887-ND	5.84	4.79	4.03	2.81	EET-UQ2E821EA
	1000	3.32	0.199	25	45	P11864-ND	5.42	4.45	3.74	2.60	EET-UQ2E102CA
	1000	3.32	0.199	30	35	P11865-ND	5.89	4.83	4.06	2.83	EET-UQ2E102DA
	1000	3.32	0.199	35	30	P11866-ND	5.53	4.68	4.05	3.04	EET-UQ2E102EA
	1200	3.53	0.166	30	40	P11867-ND	5.81	4.92	4.25	3.19	EET-UQ2E122DA
	1200	3.53	0.166	35	35	P11868-ND	6.19	5.25	4.53	3.40	EET-UQ2E122EA
	1500	4.04	0.133	30	50	P11869-ND	6.81	5.77	4.98	3.74	EET-UQ2E152DA
	1500	4.04	0.133	35	40	P11870-ND	7.12	6.03	5.21	3.91	EET-UQ2E152EA
	1800	4.55	0.111	35	45	P11871-ND	8.09	6.85	5.92	4.44	EET-UQ2E182EA
350	150	1.12	1.326	22	25	P11912-ND	3.12	2.56	2.15	1.50	EET-UQ2V151BA
	180	1.22	1.105	22	30	P11913-ND	3.33	2.73	2.30	1.60	EET-UQ2V181BA
	220	1.44	0.904	22	35	P11914-ND	3.69	3.03	2.54	1.77	EET-UQ2V221BA
	270	1.66	0.737	22	40	P11915-ND	4.12	3.38	2.84	1.98	EET-UQ2V271BA
	270	1.66	0.737	25	30	P11916-ND	4.22	3.46	2.91	2.03	EET-UQ2V271CA
	330	1.88	0.603	22	45	P11917-ND	4.61	3.78	3.18	2.21	EET-UQ2V331BA
	330	1.88	0.603	25	35	P11918-ND	4.72	3.87	3.26	2.27	EET-UQ2V331CA
	390	2.06	0.510	22	50	P11919-ND	5.28	4.33	3.64	2.54	EET-UQ2V391BA
	390	2.06	0.510	25	40	P11920-ND	5.26	4.32	3.63	2.53	EET-UQ2V391CA
	390	2.06	0.510	30	30	P11921-ND	5.86	4.81	4.04	2.82	EET-UQ2V391DA
	390	2.06	0.510	35	25	P11922-ND	5.35	4.53	3.91	2.93	EET-UQ2V391EA
	470	2.40	0.423	25	45	P11923-ND	5.93	4.87	4.09	2.85	EET-UQ2V471CA
	470	2.40	0.423	30	35	P11924-ND	5.56	4.71	4.07	3.05	EET-UQ2V471DA
	470	2.40	0.423	35	30	P11925-ND	5.81	4.92	4.25	3.19	EET-UQ2V471EA
	560	2.60	0.355	25	50	P11926-ND	5.80	4.91	4.24	3.18	EET-UQ2V561CA
	560	2.60	0.355	30	40	P11927-ND	6.23	5.28	4.56	3.42	EET-UQ2V561DA
	560	2.60	0.355	35	30	P11928-ND	6.57	5.57	4.81	3.61	EET-UQ2V561EA
	680	2.96	0.293	30	45	P11929-ND	7.11	6.02	5.20	3.90	EET-UQ2V681DA
	680	2.96	0.293	35	35	P11930-ND	7.48	6.33	5.47	4.10	EET-UQ2V681EA
	820	3.25	0.243	30	50	P11931-ND	8.33	7.06	6.10	4.57	EET-UQ2V821DA
350	820	3.25	0.243	35	45	P11932-ND	8.38	7.09	6.13	4.60	EET-UQ2V821EA
	1000	3.54	0.199	35	50	P11911-ND	8.90	7.67	6.74	5.30	EET-UQ2V102EA
400	120	1.02	1.658	22	25	P11888-ND	3.33	2.73	2.30	1.60	EET-UQ2G121BA
	150	1.16	1.326	22	30	P11889-ND	3.38	2.77	2.33	1.62	EET-UQ2G151BA
	180	1.44	1.105	22	35	P11890-ND	3.68	3.02	2.54	1.77	EET-UQ2G181BA
	220	1.49	0.904	22	40	P11891-ND	4.10	3.36	2.83	1.97	EET-UQ2G221BA
	220	1.49	0.904	25	30	P11892-ND	4.17	3.42	2.88	2.01	EET-UQ2G221CA
	270	1.67	0.737	22	45	P11893-ND	4.63	3.80	3.19	2.22	EET-UQ2G271BA
	270	1.67	0.737	25	35	P11894-ND	4.75	3.89	3.27	2.28	EET-UQ2G271CA
	270	1.67	0.737	30	30	P11895-ND	5.40	4.43	3.72	2.59	EET-UQ2G271DA
	330	1.90	0.603	22	50	P11896-ND	5.43	4.46	3.75	2.61	EET-UQ2G331BA
	330	1.90	0.603	25	40	P11897-ND	5.40	4.43	3.72	2.59	EET-UQ2G331CA
	330	1.90	0.603	30	30	P11898-ND	6.01	4.93	4.15	2.89	EET-UQ2G331DA
	330	1.90	0.603	35	25	P11899-ND	5.53	4.68	4.04	3.03	EET-UQ2G331EA
	390	2.13	0.510	25	45	P11900-ND	6.03	4.95	4.16	2.90	EET-UQ2G391CA
	390	2.13	0.510	30	35	P11901-ND	5.65	4.79	4.14	3.10	EET-UQ2G391DA
	390	2.13	0.510	35	30	P11902-ND	5.95	5.04	4.35	3.27	EET-UQ2G391EA
	470	2.39	0.423	25	50	P11903-ND	6.19	5.25	4.53	3.40	EET-UQ2G471CA
	470	2.39	0.423	30	40	P11904-ND	6.20	5.25	4.54	3.40	EET-UQ2G471DA
	470	2.39	0.423	35	30	P11905-ND	6.79	5.75	4.97	3.73	EET-UQ2G471EA
	560	2.69	0.355	30	45	P11906-ND	7.15	6.05	5.23	3.92	EET-UQ2G561DA
	560	2.69	0.355	35	35	P11907-ND	7.66	6.49	5.60	4.20	EET-UQ2G561EA
	680	2.96	0.293	30	50	P11908-ND	7.68	6.62	5.82	4.58	EET-UQ2G681DA
	680	2.96	0.293	35	45	P11909-ND	7.72	6.65	5.85	4.60	EET-UQ2G681EA
	820	3.25	0.243	35	50	P11910-ND	8.95	7.71	6.78	5.33	EET-UQ2G821EA
450	82	0.83	2.426	22	25	P11955-ND	3.43	2.75	2.26	1.48	EET-UQ2W820BA
	100	0.93	1.989	22	25	P11933-ND	3.27	2.68	2.25	1.57	EET-UQ2W101BA
	120	1.04	1.658	22	30	P11934-ND	3.49	2.86	2.40	1.68	EET-UQ2W121BA
	150	1.19	1.326	22	35	P11935-ND	3.92	3.21	2.70	1.88	EET-UQ2W151BA
	150	1.19	1.326	25	30	P11936-ND	3.99	3.27	2.75	1.92	EET-UQ2W151CA
	180	1.35	1.105	22	40	P11937-ND	4.35	3.57	3.00	2.09	EET-UQ2W181BA
	180	1.35	1.105	25	30	P11938-ND	4.40	3.61	3.04	2.12	EET-UQ2W181CA
	220	1.55	0.904	22	45	P11939-ND	4.90	4.02	3.38	2.35	EET-UQ2W221BA
	220	1.55	0.904	25	40	P11940-ND	4.97	4.07	3.42	2.39	EET-UQ2W221CA
	220	1.55	0.904	30	30	P11941-ND	5.40	4.43	3.72	2.59	EET-UQ2W221DA
	220	1.55	0.904	35	25	P11942-ND	5.83	4.78	4.02	2.80	EET-UQ2W221EA
	270	1.78	0.737	22	50	P11943-ND	5.78	4.74	3.99	2.78	EET-UQ2W271BA
	270	1.78	0.737	25	40	P11944-ND	5.77	4.74	3.98	2.77	EET-UQ2W271CA
	270	1.78	0.737	30	30	P11945-ND	5.25	4.44	3.84	2.88	EET-UQ2W271DA
	330	2.01	0.603	25	50	P11946-ND	5.88	4.98	4.30	3.23	EET-UQ2W331CA
	330	2.01	0.603	30	40	P11947-ND	6.17	5.22	4.51	3.39	EET-UQ2W331DA
	330	2.01	0.603	35	30	P11948-ND	6.51	5.51	4.76	3.57	EET-UQ2W331EA
	390	2.24	0.510	30	40	P11949-ND	6.85	5.80	5.01	3.76	EET-UQ2W391DA
	390	2.24	0.510	35	35	P11950-ND	7.25	6.14	5.30	3.98	EET-UQ2W391EA
	470	2.53	0.423	30	45	P11951-ND	7.79	6.59	5.69	4.27	EET-UQ2W471DA
	470	2.53	0.423	35	40	P11952-ND	8.09	6.85	5.92	4.44	EET-UQ2W471EA
	560	2.82	0.355	30	50	P11953-ND	8.12	7.00	6.15	4.84	EET-UQ2W561DA
	560	2.82	0.355	35	45	P11954-ND	8.30	7.16	6.29	4.95	EET-UQ2W561EA

† 2000 hour life for can sizes of 20mm diameter or length.

Panasonic® AA-Series Computer Grade Capacitors

Features:

- Standard 10-32, high post screw threads (included)
- High ripple current capability with low ESR

Specifications:

- Working Voltage Range: 10 ~ 450VDC • Capacitance Tolerance: -10/+50% • Operating Temperature Range: -40 / +85°C • Rated Endurance: +85°C for 3000 hours
- DC Leakage Current: $3\sqrt{CV}$ (µA) or 5mA maximum after 5 minutes at 20°C

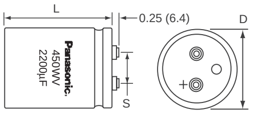
Rated Voltage:	25	40	50	100	250	350	450
Surge Voltage:	32	50	63	125	300	400	500

Ripple Current Frequency Correction Factors

Frequency (Hz):	50	60	100~ 120	300~ 360	1k	10k~ 50k~
25~100 WV:	0.9	0.95	1.0	1.05	1.08	1.15
250~450 WV:	0.75	0.8	1.0	1.2	1.25	1.4

CROSS REFERENCES

Sprague: 36D, 36DX, 36DE
Mallory: CGS, CGH
GE: 23A, 23M **UCC:** 36DA
Philips: 3186 **CDE:** DCMX

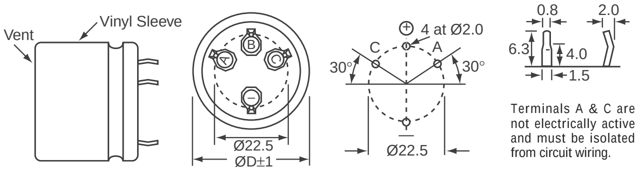


Ripple Current Temperature Correction Factors

Max Temperature	85°C	70°C	60°C	≤45°C
G-AA	1.0	1.6	2.0	2.2

WV DC	Cap. (µF)	120Hz, 20°C ESR (Ω)	120Hz, 85°C R.C. (A)	Dimensions – In. (mm) D	L	S	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
25	12000	0.042	5.13	1.375 (35)	2.125 (54)	0.500 (12.7)	P10072-ND	16.49	14.92	13.65	11.74	EEG-AA1E123CCE
	22000	0.023	6.05	2.000 (51)	2.125 (54)	0.875 (22.2)	P10073-ND	18.60	16.82	15.39	13.24	EEG-AA1E223FCE
	47000	0.010	12.72	2.000 (51)	3.125 (79)	0.875 (22.2)	P10074-ND	19.46	18.17	17.00	15.24	EEG-AA1E473FGE
	68000	0.009	17.14	2.000 (51)	3.625 (92)	0.875 (22.2)	P10075-ND	21.43	20.01	18.72	16.78	EEG-AA1E683FHE
40	6000	0.073	6.06	1.375 (35)	3.125 (79)	0.500 (12.7)	P10076-ND	16.54	14.96	13.69	11.77	EEG-AA1G602CGE
	13000	0.034	11.76	2.000 (51)	4.125 (105)	0.875 (22.2)	P10077-ND	17.33	16.19	15.14	13.58	EEG-AA1G133FKE
	22000	0.020	13.06	2.000 (51)	3.125 (79)	0.875 (22.2)	P10078-ND	18.77	17.53	16.40	14.70	EEG-AA1G223FGE
50	4100	0.107	5.40	1.375 (35)	3.125 (79)	0.500 (12.7)	P10079-ND	16.57	14.99	13.71	11.79	EEG-AA1H412CGE
	6800	0.065	6.42	1.375 (35)	3.125 (79)	0.500 (12.7)	P10080-ND	17.40	15.73	14.39	12.38	EEG-AA1H682CGE
	10000	0.044	8.79	1.375 (35)	4.125 (105)	0.500 (12.7)	P10081-ND	18.15	16.41	15.02	12.92	EEG-AA1H103CKE
	15000	0.029	11.35	2.000 (51)	4.125 (105)	0.875 (22.2)	P10082-ND	18.79	17.55	16.42	14.72	EEG-AA1H153FKE
	20000	0.022	14.15	2.000 (51)	4.125 (105)	0.875 (22.2)	P10083-ND	20.21	18.87	17.66	15.83	EEG-AA1H203FKE
100	2500	0.117	4.12	1.375 (35)	2.125 (54)	0.500 (12.7)	P10084-ND	17.90	16.19	14.81	12.74	EEG-AA2A252CCE
	4000	0.073	6.53	2.000 (51)	2.125 (54)	0.875 (22.2)	P10085-ND	17.86	16.68	15.61	13.99	EEG-AA2A402FCE
	10000	0.029	8.16	2.000 (51)	3.625 (92)	0.875 (22.2)	P10086-ND	23.51	21.95	20.54	18.41	EEG-AA2A103FHE
	18000	0.016	12.85	2.500 (64)	4.125 (105)	1.125 (28.6)	P10087-ND	32.18	30.05	28.12	25.21	EEG-AA2A183GKE
250	550	0.401	2.91	1.375 (35)	4.125 (105)	0.500 (12.7)	P10088-ND	17.52	15.85	14.50	12.47	EEG-AA2E551CKE
	1200	0.184	4.18	2.000 (51)	2.125 (54)	0.875 (22.2)	P10089-ND	17.64	16.48	15.41	13.82	EEG-AA2E122FCE
	6000	0.036	13.20	3.000 (76)	3.125 (79)	1.250 (31.8)	P10090-ND	41.26	38.53	36.04	32.31	EEG-AA2E602HGE
	10000	0.022	17.75	3.000 (76)	4.625 (117)	1.250 (31.8)	P10091-ND	56.53	52.79	49.38	44.27	EEG-AA2E103HLE
350	1000	0.221	4.11	2.000 (51)	2.625 (67)	0.875 (22.2)	P10092-ND	25.76	24.06	22.51	20.18	EEG-AA2V102FEE
	5600	0.039	10.06	3.000 (76)	4.625 (117)	1.250 (31.8)	P10093-ND	67.75	63.26	59.18	53.06	EEG-AA2V562HLE
450	450	0.491	2.93	2.000 (51)	3.125 (79)	0.875 (22.2)	P10094-ND	23.39	21.85	20.44	18.33	EEG-AA2W451FGE
	1000	0.221	5.85	2.000 (51)	3.625 (92)	0.875 (22.2)	P10095-ND	30.79	28.75	26.90	24.12	EEG-AA2W102FHE
	1800	0.122	7.47	2.000 (51)	5.625 (143)	0.875 (22.2)	P10096-ND	42.28	39.48	36.93	33.11	EEG-AA2W182FPE
	1800	0.122	9.46	3.000 (76)	5.625 (143)	1.250 (31.8)	P10097-ND	49.87	46.57	43.56	39.06	EEG-AA2W182HPE
	2200	0.100	9.27	2.500 (64)	4.125 (105)	1.125 (28.6)	P10098-ND	49.09	45.84	42.89	38.45	EEG-AA2W222GKE
	2400	0.092	7.74	3.000 (76)	5.125 (130)	1.250 (31.8)	P10099-ND	53.21	49.69	46.48	41.67	EEG-AA2W242HNE
	3100	0.071	11.18	2.500 (64)	5.625 (143)	1.125 (28.6)	P10100-ND	61.64	57.56	53.85	48.28	EEG-AA2W312GPE
	3600	0.061	12.07	3.000 (76)	4.625 (117)	1.250 (31.8)	P10101-ND	72.38	67.58	63.22	56.68	EEG-AA2W362HLE
Mounting Clamp, 1.375" (34.9mm) diameter with 2 tabs							P10102-ND	2.57	2.06	1.69	1.11	MC36B2
Mounting Clamp, 2.000" (50.8mm) diameter with 3 tabs							P10103-ND	3.07	2.46	2.02	1.32	MC51B3
Mounting Clamp, 2.500" (63.5mm) diameter with 3 tabs							P10104-ND	3.34	2.67	2.20	1.43	MC64B3
Mounting Clamp, 3.000" (76.2mm) diameter with 3 tabs							P10105-ND	3.14	2.58	2.17	1.51	MC77B3

Panasonic® T-UP Series Snap-In Capacitors



Terminals A & C are not electrically active and must be isolated from circuit wiring.

FEATURES:

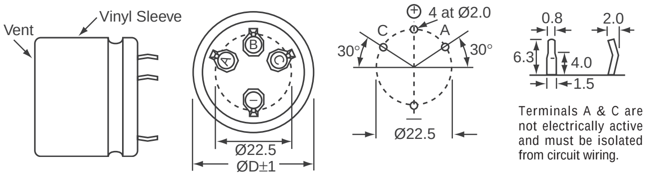
• 4 terminal mounting provides stability and keyed polarity • Replaces T-U series with higher capacitance and ripple current per case size • General purpose rated at 85°C, 3000 hour endurance • 35 and 40 mm diameter case sizes up to 80 mm in length • Top vent construction

Rated Working Voltage	16 ~ 250 VDC	350 ~ 450 VDC
Operating Temperature	-40 ~ +85°C	-25 ~ +85°C
Nominal Capacitance	1500 ~ 120000µF	470 ~ 1800µF
Endurance	2000 hours at +85°C with maximum specified ripple current	

Rated DC Voltage:	16	25	35	50	63	80	100	200	250	350	400	450
Surge Voltage:	20	32	44	63	79	100	125	250	300	400	450	500

Cap (µF)	Size (mm) D X L	Max. 85°C Ripple (Arms) 120 Hz	10k~50kHz	Max. 20°C 120Hz ESR (Ω)	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
16WV DC									
68000	35 x 50	9.05	10.41	0.018	P10000-ND	10.21	8.81	6.45	ECE-T1CP683EA
82000	35 x 60	9.94	11.43	0.018	P10001-ND	11.68	10.07	7.38	ECE-T1CP823EA
82000	40 x 50	10.29	11.83	0.019	P10003-ND	8.42	7.26	6.38	ECE-T1CP823FA
100000	35 x 80	11.00	12.65	0.019	P10002-ND	10.11	8.91	8.00	ECE-T1CP104EA
100000	40 x 60	11.36	13.06	0.020	P10004-ND	12.13	10.69	8.00	ECE-T1CP104FA
120000	40 x 80	12.42	14.28	0.018	P10005-ND	13.20	11.63	8.70	ECE-T1CP124FA
25WV DC									
47000	35 x 50	8.00	9.20	0.017	P10006-ND	10.28	8.86	6.49	ECE-T1EP473EA
56000	35 x 60	8.64	9.94	0.017	P10007-ND	11.68	10.07	7.38	ECE-T1EP563EA
56000	40 x 50	8.96	10.30	0.018	P10009-ND	11.69	10.08	7.38	ECE-T1EP563FA
68000	35 x 80	9.44	10.86	0.017	P10008-ND	11.56	10.19	7.62	ECE-T1EP683EA
68000	40 x 60	9.76	11.22	0.018	P10010-ND	12.10	10.66	7.98	ECE-T1EP683FA
100000	40 x 80	11.68	13.43	0.018	P10011-ND	13.36	12.08	9.21	ECE-T1EP104FA
35WV DC									
33000	35 x 50	7.15	8.22	0.018	P10012-ND	10.80	9.31	6.82	ECE-T1VP333EA
39000	35 x 60	7.94	9.13	0.015	P10013-ND	12.31	10.61	7.78	ECE-T1VP393EA
39000	40 x 50	7.79	8.96	0.017	P10015-ND	10.96	9.66	7.23	ECE-T1VP393FA
47000	35 x 80	9.53	10.96	0.015	P10014-ND	12.13	10.69	8.00	ECE-T1VP473EA
47000	40 x 60	8.58	9.87	0.017	P10016-ND	12.72	11.21	8.38	ECE-T1VP473FA
56000	40 x 80	10.17	11.70	0.017	P10017-ND	13.77	12.13	9.08	ECE-T1VP563FA
50WV DC									
22000	35 x 50	7.57	8.71	0.023	P10018-ND	11.27	9.72	7.12	ECE-T1HP223EA
27000	35 x 60	8.31	9.56	0.018	P10019-ND	13.20	11.38	8.34	ECE-T1HP273EA
27000	40 x 50	8.12	9.34	0.021	P10021-ND	11.72	10.33	7.72	ECE-T1HP273FA
33000	35 x 80	9.23	10.51	0.015	P10020-ND	13.16	11.60	8.68	ECE-T1HP333EA
33000	40 x 60	8.86	10.19	0.018	P10022-ND	13.80	12.16	9.10	ECE-T1HP333FA
39000	40 x 80	9.79	11.26	0.015	P10023-ND	14.92	13.15	9.83	ECE-T1HP393FA
63WV DC									
12000	35 x 50	7.15	8.22	0.035	P10024-ND	9.96	8.59	6.29	ECE-T1JP123EA
15000	35 x 60	7.71	8.87	0.028	P10025-ND	11.60	10.00	7.32	ECE-T1JP153EA
15000	40 x 50	7.53	8.66	0.033	P10027-ND	11.60	10.00	7.32	ECE-T1JP153FA
18000	35 x 80	9.41	10.82	0.023	P10026-ND	11.39	10.03	7.50	ECE-T1JP183EA
18000	40 x 60	8.28	9.52	0.028	P10028-ND	11.91	10.50	7.85	ECE-T1JP183FA
22000	40 x 80	9.97	11.47	0.023	P10029-ND	13.09	11.54	8.63	ECE-T1JP223FA
80WV DC									
8200	35 x 50	5.83	6.70	0.051	P10030-ND	9.76	8.41	6.16	ECE-T1KP822EA
10000	35 x 60	6.38	7.34	0.041	P10031-ND	11.82	10.19	7.47	ECE-T1KP103EA
10000	40 x 50	6.56	7.54	0.041	P10033-ND	10.08	8.88	6.64	ECE-T1KP103FA
12000	35 x 80	6.92	7.96	0.035	P10032-ND	11.06	9.75	7.29	ECE-T1KP123EA
12000	40 x 60	7.29	8.38	0.035	P10034-ND	11.59	10.22	7.64	ECE-T1KP123FA
15000	40 x 80	8.93	10.27	0.028	P10035-ND	12.84	11.32	8.46	ECE-T1KP153FA
100WV DC									
6800	35 x 50	6.60	7.59	0.049	P10036-ND	10.26	9.05	6.77	ECE-T2AP682EA
8200	35 x 60	7.05	8.12	0.040	P10037-ND	12.03	10.60	7.93	ECE-T2AP822EA
8200	40 x 50	7.28	8.37	0.040	P10039-ND	11.89	10.48	7.84	ECE-T2AP822FA
10000	35 x 80	7.74	8.90	0.033	P10038-ND	11.96	10.82	8.25	ECE-T2AP103EA
10000	40 x 60	7.97	9.17	0.033	P10040-ND	14.08	12.41	9.28	ECE-T2AP103FA
12000	40 x 80	8.65	9.95	0.026	P10041-ND	13.99	12.66	9.65	ECE-T2AP123FA
200WV DC									
2200	35 x 50	4.92	6.89	0.113	P10042-ND	10.83	9.34	6.84	ECE-T2DP222EA
2700	35 x 60	5.41	7.57	0.092	P10043-ND	12.11	10.44	7.65	ECE-T2DP272EA
2700	40 x 50	5.41	7.57	0.092	P10045-ND	11.28	9.95	7.44	ECE-T2DP272FA
3300	35 x 80	5.90	8.26	0.075	P10044-ND	12.58	11.09	8.29	ECE-T2DP332EA
3300	40 x 60	5.90	8.26	0.075	P10046-ND	12.60	11.10	8.30	ECE-T2DP332FA
3900	40 x 80	6.40	8.96	0.064	P10047-ND	14.28	12.59	9.41	ECE-T2DP392FA
250WV DC									
1500	35 x 50	4.04	5.66	0.166	P10048-ND	11.04	9.52	6.98	ECE-T2EP152EA
1800	35 x 60	4.49	6.29	0.138	P10049-ND	12.22	10.54	7.72	ECE-T2EP182EA
1800	40 x 50	4.49	6.29	0.138	P10051-ND	12.75	10.99	8.05	ECE-T2EP182FA
2200	35 x 80	4.94	6.92	0.113	P10050-ND	12.73	11.22	8.39	ECE-T2EP222EA
2200	40 x 60	4.94	6.92	0.113	P10052-ND	12.72	11.21	8.38	ECE-T2EP222FA
2700	40 x 80	5.39	7.55	0.092	P10053-ND	14.78	13.02	9.74	ECE-T2EP272FA
350WV DC									
680	35 x 50	2.96	4.14	0.366	P10054-ND	11.21	9.66	7.08	ECE-T2VP681EA
1000	35 x 60	3.19	4.47	0.249	P10055-ND	12.61	11.12	8.31	ECE-T2VP102EA
1000	40 x 50	3.19	4.47	0.249	P10057-ND	13.13	11.57	8.65	ECE-T2VP102FA
1200	35 x 80	3.64	5.10	0.207	P10056-ND	14.56	12.83	9.60	ECE-T2VP122EA
1200	40 x 60	3.64	5.10	0.207	P10058-ND	14.64	12.90	9.65	ECE-T2VP122FA
1800	40 x 80	4.10	5.74	0.136	P10059-ND	17.68	16.00	12.19	ECE-T2VP182FA
400WV DC									
560	35 x 50	2.69	3.77	0.444	P10060-ND	11.10	9.57	7.01	ECE-T2GP561EA
680	35 x 60	2.93	4.10	0.366	P10061-ND	11.05	9.74	7.29	ECE-T2GP681EA
820	40 x 50	3.18	4.45	0.303	P10063-ND	12.83	11.31	8.46	ECE-T2GP821FA
1000	35 x 80	3.42	4.79	0.249	P10062-ND	14.48	12.76	9.54	ECE-T2GP102EA
1000	40 x 60	3.42	4.79	0.249	P10064-ND	14.59	12.86	9.61	ECE-T2GP102FA
1500	40 x 80	3.91	5.47	0.166	P10065-ND	17.62	15.94	12.15	ECE-T2GP152FA
450WV DC									
470	35 x 50	2.53	3.54	0.529	P10066-ND	12.50	10.78	7.90	ECE-T2WP471EA
560	35 x 60	2.76	3.86	0.444	P10067-ND	13.87	11.96	8.76	ECE-T2WP561EA
680	40 x 50	2.99	4.19	0.366	P10069-ND	14.53	12.80	9.57	ECE-T2WP681FA
820	35 x 80	3.22	4.51	0.303	P10068-ND	14.75	13.34	10.17	ECE-T2WP821EA
820	40 x 60	3.22	4.51	0.303	P10070-ND	16.36	14.41	10.78	ECE-T2WP821FA
1200	40 x 80	3.45	4.83	0.207	P10071-ND	17.40	16.25	12.67	ECE-T2WP122FA

Panasonic® T-HA Series Snap-In Capacitors



Terminals A & C are not electrically active and must be isolated from circuit wiring.

FEATURES:

• 4 terminal mounting provides stability and keyed polarity • Replaces T-NHE series with higher capacitance and ripple current per case size • Industrial grade with 3000 hour endurance at 105° C • 35 and 40 mm diameter case sizes up to 80 mm in length • Top vent construction

Rated Working Voltage	16 ~ 250 VDC	350 ~ 450 VDC
Operating Temperature	-40 ~ +105°C	-25 ~ +105°C
Nominal Capacitance	1200 ~ 120000µF	470 ~ 1500µF
Endurance	2000 hours at +105°C with maximum specified ripple current	

Rated DC Voltage:	16	25	35	50	63	80	100	200	250	350	400	450
Surge Voltage:	20	32	44	63	79	100	125	250	300	400	450	500

Cap (µF)	Size (mm) D X L	Max. 85°C Ripple (Arms) 120 Hz	10k~50kHz	Max. 20°C 120Hz ESR (Ω)	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
16WV DC									
56000	35 x 50	6.00	6.90	0.018	P10612-ND	9.77	8.42	6.17	ECE-T1CA563EA
68000	35 x 60	6.62	7.61	0.017	P10613-ND	9.97	8.79	6.58	ECE-T1CA683EA
68000	40 x 50	7.29	8.38	0.019	P10614-ND	10.01	8.82	6.60	ECE-T1CA683FA
82000	40 x 60	7.29	8.38	0.017	P10615-ND	11.49	10.12	7.57	ECE-T1CA823FA
100000	35 x 80	8.03	9.23	0.015	P10616-ND	12.30	10.84	8.11	ECE-T1CA104EA
120000	40 x 80	8.79	10.11	0.014	P10617-ND	12.55	11.36	8.66	ECE-T1CA124FA
25WV DC									
33000	35 x 50	5.50	6.33	0.020	P10618-ND	9.23	7.96	5.83	ECE-T1EA333EA
47000	35 x 60	6.56	7.54	0.017	P10619-ND	10.14	8.94	6.68	ECE-T1EA473EA
47000	40 x 50	6.47	7.44	0.019	P10620-ND	10.16	8.95	6.69	ECE-T1EA473FA
56000	35 x 80	7.25	8.34	0.017	P10621-ND	11.10	9.78	7.32	ECE-T1EA563EA
56000	40 x 60	7.17	8.25	0.015	P10622-ND	11.59	10.22	7.64	ECE-T1EA563FA
82000	40 x 80	8.68	9.98	0.014	P10623-ND	12.71	11.49	8.76	ECE-T1EA823FA
35WV DC									
22000	35 x 50	5.00	5.75	0.026	P10624-ND	9.86	8.50	6.23	ECE-T1VA223EA
27000	35 x 60	5.53	6.36	0.021	P10625-ND	10.15	8.95	6.69	ECE-T1VA273EA
27000	40 x 50	5.44	6.26	0.025	P10626-ND	10.16	8.96	6.70	ECE-T1VA273FA
33000	40 x 60	6.61	7.60	0.020	P10627-ND	11.77	10.37	7.76	ECE-T1VA333FA
39000	35 x 80	6.52	7.50	0.015	P10628-ND	12.39	10.92	8.16	ECE-T1VA393EA
47000	40 x 80	7.79	8.96	0.014	P10629-ND	14.20	12.51	9.36	ECE-T1VA473FA
50WV DC									
15000	35 x 50	4.80	5.52	0.033	P10630-ND	9.99	8.61	6.31	ECE-T1HA153EA
18000	35 x 60	5.27	6.06	0.028	P10631-ND	10.18	8.97	6.71	ECE-T1HA183EA
22000	40 x 50	5.15	5.92	0.026	P10632-ND	11.31	9.97	7.45	ECE-T1HA223FA
27000	35 x 80	6.16	7.08	0.018	P10633-ND	12.70	11.20	8.37	ECE-T1HA273EA
27000	40 x 60	6.05	6.96	0.021	P10634-ND	13.28	11.70	8.75	ECE-T1HA273FA
39000	40 x 80	7.55	8.68	0.015	P10635-ND	14.66	13.26	10.11	ECE-T1HA393FA
63WV DC									
12000	35 x 50	4.40	5.06	0.035	P10636-ND	9.39	8.28	6.19	ECE-T1JA123EA
15000	35 x 60	4.92	5.66	0.028	P10637-ND	11.00	9.70	7.25	ECE-T1JA153EA
15000	40 x 50	4.80	5.52	0.033	P10638-ND	10.97	9.67	7.23	ECE-T1JA153FA
18000	35 x 80	5.79	6.66	0.023	P10639-ND	12.12	10.68	7.99	ECE-T1JA183EA
18000	40 x 60	5.39	6.20	0.028	P10640-ND	12.70	11.19	8.37	ECE-T1JA183FA
27000	40 x 80	6.59	7.58	0.018	P10641-ND	14.28	12.92	9.85	ECE-T1JA273FA
80WV DC									
6800	35 x 50	3.90	4.49	0.061	P10642-ND	9.05	7.98	5.97	ECE-T1KA682EA
8200	35 x 60	4.39	5.05	0.051	P10643-ND	10.47	9.23	6.90	ECE-T1KA822EA
8200	40 x 50	4.29	4.93	0.051	P10644-ND	11.21	9.88	7.39	ECE-T1KA822FA
10000	35 x 80	4.88	5.61	0.041	P10645-ND	12.54	11.05	8.26	ECE-T1KA103EA
10000	40 x 60	4.73	5.44	0.041	P10646-ND	12.51	11.02	8.25	ECE-T1KA103FA
15000	40 x 80	5.97	6.87	0.028	P10647-ND	13.58	12.29	9.37	ECE-T1KA153FA
100WV DC									
4700	35 x 50	3.80	4.37	0.071	P10648-ND	9.37	8.26	6.18	ECE-T2AA472EA
5600	35 x 60	4.06	4.67	0.059	P10649-ND	10.81	9.52	7.12	ECE-T2AA562EA
6800	40 x 50	4.57	5.26	0.049	P10650-ND	11.96	10.55	7.89	ECE-T2AA682FA
8200	35 x 80	5.15	5.92	0.040	P10651-ND	13.37	11.78	8.81	ECE-T2AA822EA
8200	40 x 60	5.02	5.77	0.040	P10652-ND	12.59	11.39	8.68	ECE-T2AA822FA
12000	40 x 80	6.44	7.41	0.028	P10653-ND	15.70	14.20	10.83	ECE-T2AA123FA
200WV DC									
2200	35 x 50	2.90	4.06	0.113	P10654-ND	10.41	9.18	6.86	ECE-T2DA222EA
2700	35 x 60	3.65	5.11	0.092	P10655-ND	11.70	10.31	7.71	ECE-T2DA272EA
2700	40 x 50	3.55	4.97	0.092	P10656-ND	12.19	10.74	8.03	ECE-T2DA272FA
3300	35 x 80	4.52	6.33	0.075	P10657-ND	13.71	12.08	9.04	ECE-T2DA332EA
3300	40 x 60	4.40	6.16	0.075	P10658-ND	13.68	12.06	9.02	ECE-T2DA332FA
4700	40 x 80	5.76	8.06	0.053	P10659-ND	15.80	14.29	10.89	ECE-T2DA472FA
250WV DC									
1200	35 x 50	2.30	3.22	0.207	P10660-ND	10.12	8.92	6.67	ECE-T2EA122EA
1500	35 x 60	2.57	3.60	0.166	P10661-ND	11.48	10.12	7.57	ECE-T2EA152EA
1800	40 x 50	3.15	4.41	0.138	P10662-ND	13.33	11.74	8.78	ECE-T2EA182FA
2200	35 x 80	3.75	5.25	0.113	P10663-ND	13.53	12.24	9.33	ECE-T2EA222EA
2200	40 x 60	3.68	5.15	0.113	P10664-ND	13.47	12.19	9.29	ECE-T2EA222FA
3300	40 x 80	4.68	5.80	0.075	P10665-ND	16.14	15.07	11.75	ECE-T2EA332FA
350WV DC									
680	35 x 50	2.15	3.01	0.366	P10666-ND	11.13	9.81	7.34	ECE-T2VA681EA
820	35 x 60	2.65	3.71	0.303	P10667-ND	12.43	10.95	8.19	ECE-T2VA821EA
820	40 x 50	2.65	3.71	0.303	P10668-ND	12.93	11.39	8.52	ECE-T2VA821FA
1200	35 x 80	3.22	4.51	0.207	P10669-ND	14.78	13.37	10.19	ECE-T2VA122EA
1200	40 x 60	3.22	4.51	0.207	P10670-ND	14.68	13.27	10.12	ECE-T2VA122FA
1500	40 x 80	3.75	5.25	0.166	P10671-ND	17.59	15.91	12.13	ECE-T2VA152FA
400WV DC									
560	35 x 50	1.80	2.52	0.444	P10672-ND	11.42	10.07	7.53	ECE-T2GA561EA
680	40 x 50	2.17	3.04	0.366	P10673-ND	13.36	11.77	8.80	ECE-T2GA681FA
820	35 x 60	2.44	3.42	0.303	P10674-ND	14.76	13.01	9.73	ECE-T2GA821EA
1000	35 x 80	3.00	4.20	0.249	P10675-ND	15.36	13.89	10.59	ECE-T2GA102EA
1000	40 x 60	3.00	4.20	0.249	P10676-ND	15.24	13.78	10.51	ECE-T2GA102FA
1200	40 x 80	3.30	4.62	0.207	P10677-ND	17.80	16.10	12.27	ECE-T2GA122FA
450WV DC									
470	35 x 50	1.74	2.44	0.529	P10678-ND	12.45	10.98	8.21	ECE-T2WA471EA
560	35 x 60	2.15	3.01	0.444	P10679-ND	13.90	12.25	9.16	ECE-T2WA561EA
560	40 x 50	2.10	2.94	0.444	P10680-ND	14.44	12.72	9.52	ECE-T2WA561FA
680	40 x 60	2.50	3.78	0.303	P10681-ND	14.60	13.21	10.07	ECE-T2WA681FA
820	35 x 80	2.70	3.50	0.303	P10682-ND	16.77	15.17	11.56	ECE-T2WA821EA
1000	40 x 80	3.50	4.90	0.249	P10683-ND	19.73	17.84	13.60	ECE-T2WA102FA

Panasonic® VV/TA/HD/VA/VS/HA/HB/FC/FK/EB Series Aluminum Electrolytic Capacitors, Surface Mount Type

FEATURES:

• Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement • Anti-solvent: Freon-TE, TES, TP-35

SPECIFICATIONS:

• **Operating Temperature Range:** TA Series: -40°C to +125°C, HD/VV/HA/HB/FC Series: -40°C to +105°C, VA/VS/VS-BP Series -40° to +85°C, EB Series -20 to +105°C, FK Series: -55° to +105°C

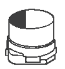
• **Capacitance Tolerance:** ±20% (120Hz, +20°C)

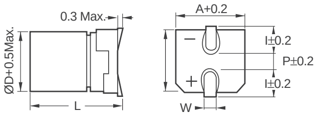
• **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 min. application of rated working voltage at +20°C, EB Series: I ≤ 0.06CV +10(µA) after 2 minutes application of rated working voltage at +20°C

• **Low Temperature Characteristics:** Impedance ratio (120Hz) ≤ Following specified values.

Impedance 120Hz	Series	Working Voltage 4.0V	6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C -40°C/+20°C	VV/VA/VS	7 15	4 8	3 6	2 4	2 4	2 3	2 3	3 4	3 4
-25°C/+20°C -40°C/+20°C	TA	— —	— —	8 14	8 12	4 10	3 8	3 8	— —	— —
-25°C/+20°C -40°C/+20°C	HD	— —	— —	6 12	2 5	2 3	2 3	2 3	— —	— —
-25°C/+20°C -40°C/+20°C	HA	— —	4 8	3 6	2 4	2 4	2 3	2 3	3 4	3 4
-25°C/+20°C -40°C/+20°C	HB	7 15	4 8	3 6	2 4	2 4	2 3	2 3	— —	— —
-25°C/+20°C -40°C/+20°C	FC	— —	2 3	2 3	2 3	2 3	2 3	2 3	2 3	2 3
-25°C/+20°C -40°C/+20°C -55°C/+20°C	FK	— — —	2 3 4	2 3 4	2 3 4	2 3 3	2 3 3	— — —	— — —	— — —

Impedance 120Hz	Series	Working Voltage 160V	200V	250V	350V	400V	450V
-25°C/+20°C	EB	2	2	3	5	6	6

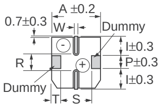




Series	Case Code	Dimensions D	L	A	B	I	W	P
VV	B	4	5.4	4.3	4.3	1.8	0.65±0.1	1.0
TA	E	8.0	6.2	8.3	9.5 max.	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	10.0 max.	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	12.0 max.	3.5	0.90±0.2	4.6
HD	B	4.0	5.8	4.3	5.5 max.	1.8	0.65±0.1	1.0
	C	5.0	5.8	5.3	6.5 max.	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	7.8 max.	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	9.5 max.	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	10.0 max.	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	12.0 max.	3.5	0.90±0.2	4.6
VA	B	4.0	5.7	4.3	4.3 max.	1.8	0.65±0.1	1.0
	C	5.0	5.7	5.3	5.3 max.	2.2	0.65±0.1	1.5
	D	6.3	5.7	6.6	6.6 max.	2.4	0.65±0.1	2.2
VS	A	3.0	5.4	3.3	4.5 max.	1.5	0.55±0.1	0.6
	B	4.0	5.4	4.3	5.5 max.	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	6.5 max.	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	7.8 max.	2.6	0.65±0.1	1.8
	D2	6.3	5.7	6.6	7.8 max.	2.6	0.65±0.1	1.8
	D8	6.3	7.9	6.6	7.8 max.	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	9.5 max.	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	10.0 max.	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	12.0 max.	3.5	0.90±0.2	4.6

Series	Case Code	Dimensions D	L	A	B	I	W	P
HA	B	4.0	5.4	4.3	5.5 max.	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	6.5 max.	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	7.8 max.	2.6	0.65±0.1	1.8
	D8	6.3	7.9	6.6	7.8 max.	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	9.5 max.	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	10.0 max.	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	12.0 max.	3.5	0.90±0.2	4.6
HB	B	4.0	5.8	4.3	5.5 max.	1.8	0.65±0.1	1.0
	C	5.0	5.8	5.3	6.5 max.	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	7.8 max.	2.6	0.65±0.1	1.8
FC	B	4.0	5.4	4.3	5.5 max.	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	6.5 max.	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	7.8 max.	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	9.5 max.	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	10.0 max.	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	12.0 max.	3.5	0.90±0.2	4.6
	H16	12.5	16.5	13.5	15.0 max.	4.7	0.90±0.3	4.4
	K16	18	16.5	19.0	21.0 max.	6.5	1.2±0.3	6.7
	K21	18	21.5	19.0	21.0 max.	6.5	1.2±0.3	6.7
FK	B	4	5.8	4.3	5.5	1.8	0.65±0.1	1.0
	C	5	5.8	5.3	6.5	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	7.8	2.6	0.65±0.1	1.8
	D8	6.3	7.7	6.6	7.8	2.6	0.65±0.1	1.8
	E	8	6.2	8.3	9.5	3.4	0.65±0.1	2.2
	F	8	10.2	8.3	10.0	3.4	0.90±0.3	3.1
	G	10	10.2	10.3	12.0	3.5	0.90±0.3	4.6
	H13	12.5	13.5	13.5	15.0	4.7	0.90±0.3	4.4
	J16	16	16.5	17.0	19.0	5.5	1.2±0.3	6.7
	K16	18	16.5	19.0	21.0	6.7	1.2±0.3	6.7
EB	G13	10	13.5	10.3	12.0 max.	3.5	0.90±0.2	4.6
	G17	10	17.5	10.3	12.0 max.	3.5	0.90±0.2	4.6
	H16	12.5	16.5	13.5	15.0 max.	4.7	0.90±0.3	4.4
	J16	16	16.5	17.0	19.0 max.	5.5	1.2±0.3	6.7
	J21	16	21.5	17.0	19.0 max.	5.5	1.2±0.3	6.7
	K16	18	16.5	19.0	21.0 max.	6.5	1.2±0.3	6.7
	K21	18	21.5	19.0	21.0 max.	6.5	1.2±0.3	6.7
VS-BIPOLAR	B	4.0	5.4	4.3	5.5 max.	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	6.5 max	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	7.8 max.	2.6	0.65±0.1	1.8

Land/Pad dimensions as mounting guideline.



Series FC
Case Sizes J and K

Case Code	R	S	T
J16	5.0	12.0	2.5
K16	5.0	14.0	3.5
K21	5.0	14.0	3.5

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Impedance (ohms)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
VV Series: –40°C to +105°C (2000 Hour Life) - NOT RECOMMENDED FOR NEW DESIGN															
50	0.15	0.12	—	3.0	B	1.5	PCE1010CT-ND	—	.34	—	.30	PCE1010TR-ND	2,000	148.00/M	ECE-V1HVR15SR
	0.22	0.12	—	3.0	B	2.3	PCE1012CT-ND	—	.34	—	.30	PCE1012TR-ND	2,000	148.00/M	ECE-V1HVR22SR
TA Automotive Series: –40°C to +125°C (1000 Hour Life)															
10	100	0.32	—	10.0	E	62	PCE3143CT-ND	1.06	.87	.81	.75	PCE3143TR-ND	1,000	303.00	EEV-TA1A101P
	220	0.32	—	22.0	F	93	PCE3144CT-ND	1.36	1.12	1.04	.96	PCE3144TR-ND	500	195.00	EEV-TA1A221P
	330	0.32	—	33.0	G	118	PCE3145CT-ND	1.60	1.32	1.23	1.13	PCE3145TR-ND	500	229.50	EEV-TA1A331P
16	100	0.24	—	16.0	F	89	PCE3146CT-ND	1.36	1.12	1.04	.96	PCE3146TR-ND	500	195.00	EEV-TA1C101P
	220	0.24	—	35.2	G	113	PCE3147CT-ND	1.60	1.32	1.23	1.13	PCE3147TR-ND	500	229.50	EEV-TA1C221P
25	47	0.21	—	11.8	E	56	PCE3148CT-ND	1.06	.87	.81	.75	PCE3148TR-ND	1,000	303.00	EEV-TA1E470P
	100	0.21	—	25.0	F	84	PCE3149CT-ND	1.36	1.12	1.04	.96	PCE3149TR-ND	500	195.00	EEV-TA1E101P
35	33	0.18	—	11.6	E	53	PCE3150CT-ND	1.06	.87	.81	.75	PCE3150TR-ND	1,000	303.00	EEV-TA1V330P
	47	0.18	—	16.5	F	79	PCE3151CT-ND	1.36	1.12	1.04	.96	PCE3151TR-ND	500	195.00	EEV-TA1V470P
	100	0.18	—	3.5	G	101	PCE3152CT-ND	1.60	1.32	1.23	1.13	PCE3152TR-ND	500	229.50	EEV-TA1V101P
50	10	0.18	—	5.0	E	25	PCE3153CT-ND	1.06	.87	.81	.75	PCE3153TR-ND	1,000	303.00	EEV-TA1H100P
	22	0.18	—	11.0	E	50	PCE3154CT-ND	1.06	.87	.81	.75	PCE3154TR-ND	1,000	303.00	EEV-TA1H220P
	33	0.18	—	16.5	F	74	PCE3155CT-ND	1.41	1.16	1.08	1.00	PCE3155TR-ND	500	195.00	EEV-TA1H330P
	47	0.18	—	23.5	G	94	PCE3156CT-ND	1.60	1.32	1.23	1.13	PCE3156TR-ND	500	229.50	EEV-TA1H470P
HD Series: –40°C to +105°C (5000 Hour Life)															
10	100	—	2.0	10.0	E	62	PCE3364CT-ND	.76	.63	.58	.54	PCE3364TR-ND	1,000	184.00	EEV-HD1A101P
	220	—	1.5	22.0	F	93	PCE3365CT-ND	.99	.81	.76	.70	PCE3365TR-ND	500	119.50	EEV-HD1A221P
	330	—	0.8	33.0	G	118	PCE3366CT-ND	1.22	1.01	.94	.87	PCE3366TR-ND	500	139.50	EEV-HD1A331P
16	10	—	12.0	3.0	B	20	PCE3338CT-ND	.37	.31	.28	.26	PCE3338TR-ND	2,000	80.00/M	EEV-HD1C100R
	22	—	7.2	3.5	C	33	PCE3339CT-ND	.43	.36	.33	.31	PCE3339TR-ND	1,000	95.00	EEV-HD1C220R
	47	—	4.0	7.5	D	55	PCE3340CT-ND	.50	.41	.38	.35	PCE3340TR-ND	1,000	113.00	EEV-HD1C470P
	100	—	1.5	16.0	F	89	PCE3367CT-ND	.99	.81	.76	.70	PCE3367TR-ND	500	119.50	EEV-HD1C101P
	220	—	0.8	35.2	G	113	PCE3368CT-ND	1.25	1.03	.95	.88	PCE3368TR-ND	500	219.00	EEV-HD1C221P
25	33	—	4.0	8.3	D	52	PCE3341CT-ND	.50	.41	.38	.35	PCE3341TR-ND	1,000	113.00	EEV-HD1E330P
	47	—	2.0	11.8	E	56	PCE3369CT-ND	.76	.63	.58	.54	PCE3369TR-ND	1,000	184.00	EEV-HD1E470P
	100	—	1.5	25.0	F	84	PCE3370CT-ND	.99	.81	.76	.70	PCE3370TR-ND	500	119.50	EEV-HD1E101P
35	4.7	—	12.0	3.0	B	17	PCE3342CT-ND	.37	.31	.28	.26	PCE3342TR-ND	2,000	80.00/M	EEV-HD1V4R7R
	10	—	7.2	3.5	C	28	PCE3343CT-ND	.43	.36	.33	.31	PCE3343TR-ND	1,000	95.00	EEV-HD1V100R
	22	—	4.0	7.7	D	47	PCE3344CT-ND	.50	.41	.38	.35	PCE3344TR-ND	1,000	113.00	EEV-HD1V220P
	33	—	2.0	11.6	E	53	PCE3371CT-ND	.76	.63	.58	.54	PCE3371TR-ND	1,000	184.00	EEV-HD1V330P
	47	—	1.5	16.5	F	79	PCE3372CT-ND	.99	.81	.76	.70	PCE3372TR-ND	500	119.50	EEV-HD1V470P
	100	—	0.8	35.0	G	101	PCE3373CT-ND	1.22	1.01	.94	.87	PCE3373TR-ND	500	139.50	EEV-HD1V101P
50	0.47	—	12.0	3.0	B	5	PCE3345CT-ND	.37	.31	.28	.26	PCE3345TR-ND	2,000	80.00/M	EEV-HD1HR47R
	1.0	—	12.0	3.0	B	7	PCE3346CT-ND	.37	.31	.28	.26	PCE3346TR-ND	2,000	80.00/M	EEV-HD1H1R0R
	2.2	—	12.0	3.0	B	12	PCE3347CT-ND	.37	.31	.28	.26	PCE3347TR-ND	2,000	80.00/M	EEV-HD1H2R2R
	3.3	—	12.0	3.0	B	16	PCE3348CT-ND	.37	.31	.28	.26	PCE3348TR-ND	2,000	80.00/M	EEV-HD1H3R3R
	4.7	—	7.2	3.0	C	21	PCE3349CT-ND	.43	.36	.33	.31	PCE3349TR-ND	1,000	95.00	EEV-HD1H4R7R
	10	—	4.0	5.0	D	33	PCE3350CT-ND	.50	.41	.38	.35	PCE3350TR-ND	1,000	113.00	EEV-HD1H100P
	22	—	2.0	11.0	E	50	PCE3374CT-ND	.76	.63	.58	.54	PCE3374TR-ND	1,000	184.00	EEV-HD1H220P
	47	—	0.8	23.5	G	94	PCE3376CT-ND	1.22	1.01	.94	.87	PCE3376TR-ND	500	139.50	EEV-HD1H470P
	33	—	1.5	16.5	F	74	PCE3375CT-ND	.99	.81	.76	.70	PCE3375TR-ND	500	119.50	EEV-HD1H330P
63	10	0.18	2.0	6.3	E	45	PCE3571CT-ND *NEW!*	.49	.46	.40	.31	PCE3571TR-ND *NEW!*	1,000	184.00	EEV-HD1J100P
	22	0.18	1.5	13.8	F	65	PCE3572CT-ND *NEW!*	.64	.60	.52	.48	PCE3572TR-ND *NEW!*	500	119.50	EEV-HD1J220P
	33	0.18	0.8	20.7	G	80	PCE3573CT-ND *NEW!*	.75	.70	.61	.56	PCE3573TR-ND *NEW!*	500	139.50	EEV-HD1J330P

(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Impe-dance (ohms)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
100	3.3	0.18	2.0	3.3	E	30	PCE3576CT-ND *NEW!*	.49	.46	.40	.37	PCE3576TR-ND *NEW!*	1,000	184.00	EEV-HD2A3R3P
	4.7	0.18	1.5	4.7	F	50	PCE3577CT-ND *NEW!*	.64	.60	.52	.48	PCE3577TR-ND *NEW!*	500	119.50	EEV-HD2A4R7P
	10.0	0.18	1.5	10.0	F	55	PCE3574CT-ND *NEW!*	.64	.60	.52	.48	PCE3574TR-ND *NEW!*	500	119.50	EEV-HD2A100P
	22.0	0.18	0.8	22.0	G	70	PCE3575CT-ND *NEW!*	.75	.70	.61	.56	PCE3575TR-ND *NEW!*	500	139.50	EEV-HD2A220P
VA General Purpose Series: –40°C to +85°C (1000 Hour Life)															
4.0	33	0.35	—	3.0	B	26	PCE2023CT-ND	—	.31	—	.27	PCE2023TR-ND	2,000	123.00/M	ECE-V0GA330R
50	0.15	0.12	—	3.0	B	1.5	PCE2028CT-ND	—	.32	—	.28	PCE2028TR-ND	2,000	128.00/M	ECE-V1HAR15R
VS General Purpose Low Profile Series: –40°C to +85°C (2000 Hour Life)															
4	22	0.37	—	3.0	A	19	PCE3051CT-ND	.24	.20	.19	.17	PCE3051TR-ND	2,000	84.00/M	ECE-V0GS220SR
	33	0.35	—	3.0	B	26	PCE3052CT-ND	.21	.17	.16	.15	PCE3052TR-ND	2,000	72.00/M	ECE-V0GA330SR
	47	0.35	—	3.0	B	34	PCE3053CT-ND	.21	.17	.16	.15	PCE3053TR-ND	2,000	72.00/M	ECE-V0GA470SR
	100	0.35	—	4.0	C	61	PCE3054CT-ND	.30	.25	.23	.21	PCE3054TR-ND	1,000	105.00	ECE-V0GA101SR
	220	0.35	—	8.8	D	82	PCE3055CT-ND	.28	.23	.21	.20	PCE3055TR-ND	1,000	96.00	ECE-V0GA221SP
6.3	22	0.35	—	3.0	A	20	PCE3308CT-ND	.24	.20	.19	.17	PCE3308TR-ND	2,000	84.00/M	ECE-V0JS220WR
	22	0.26	—	3.0	B	29	PCE3056CT-ND	.26	.21	.20	.18	PCE3056TR-ND	2,000	90.00/M	ECE-V0JA220SR
	47	0.35	—	3.0	B	36	PCE3309CT-ND	.23	.19	.18	.16	PCE3309TR-ND	2,000	80.00/M	ECE-V0JA470WR
	47	0.26	—	3.0	C	46	PCE3057CT-ND	.30	.25	.23	.21	PCE3057TR-ND	1,000	105.00	ECE-V0JA470SR
	100	0.26	—	6.3	D	71	PCE3058CT-ND	.34	.28	.26	.24	PCE3058TR-ND	1,000	120.00	ECE-V0JA101SP
	220	0.35	—	13.8	D	74	PCE3310CT-ND	.35	.29	.27	.25	PCE3310TR-ND	1,000	123.00	ECE-V0JA221WP
	330	0.26	—	20.8	D8	150	PCE3351CT-ND	.43	.35	.33	.30	PCE3351TR-ND	900	135.00	ECE-V0JA331XP
	330	0.35	—	20.8	E	300	PCE2034CT-ND	.56	.46	.43	.39	PCE2034TR-ND	1,000	195.00	ECE-V0JA331P
	470	0.35	—	29.6	F	380	PCE2035CT-ND	.55	.46	.42	.39	PCE2035TR-ND	500	97.00	ECE-V0JA471P
	1000	0.35	—	63.0	F	500	PCE3173CT-ND	.61	.50	.47	.43	PCE3173TR-ND	500	106.50	ECE-V0JA102UP
	1000	0.35	—	63.0	G	700	PCE2038CT-ND	.69	.57	.53	.49	PCE2038TR-ND	500	121.00	ECE-V0JA102P
	1500	0.35	—	94.5	G	750	PCE3174CT-ND	.76	.62	.58	.54	PCE3174TR-ND	500	133.00	ECE-V0JA152P
10	33	0.30	—	3.3	B	29	PCE3175CT-ND	.23	.19	.17	.16	PCE3175TR-ND	2,000	78.00/M	ECE-V1AA330WR
	33	0.20	—	3.3	C	43	PCE3059CT-ND	.24	.20	.19	.17	PCE3059TR-ND	1,000	84.00	ECE-V1AA330SR
	47	0.20	—	4.7	D	65	PCE3060CT-ND	.41	.34	.31	.29	PCE3060TR-ND	1,000	142.00	ECE-V1AA470SP
	100	0.30	—	10.0	C	50	PCE3311CT-ND	.35	.29	.27	.25	PCE3311TR-ND	1,000	123.00	ECE-V1AA101WR
	100	0.20	—	10.0	D	70	PCE3176CT-ND	.37	.30	.28	.26	PCE3176TR-ND	1,000	128.00	ECE-V1AA101SP
	220	0.20	—	22.0	D8	150	PCE3352CT-ND	.51	.42	.39	.36	PCE3352TR-ND	900	162.00	ECE-V1AA221XP
	220	0.26	—	22.0	E	250	PCE2040CT-ND	.51	.42	.39	.36	PCE2040TR-ND	1,000	180.00	ECE-V1AA221P
	330	0.26	—	33.0	F	330	PCE2041CT-ND	.55	.46	.42	.39	PCE2041TR-ND	500	97.00	ECE-V1AA331P
	470	0.26	—	47.0	G	400	PCE2042CT-ND	.69	.57	.53	.49	PCE2042TR-ND	500	121.00	ECE-V1AA471P
	470	0.26	—	47.0	F	330	PCE3177CT-ND	.55	.46	.42	.39	PCE3177TR-ND	500	97.00	ECE-V1AA471UP
	1000	0.26	—	100.0	G	580	PCE3178CT-ND	.69	.57	.53	.49	PCE3178TR-ND	500	121.00	ECE-V1AA102P
16	10	0.18	—	3.0	A	20	PCE3061CT-ND	.24	.20	.19	.17	PCE3061TR-ND	2,000	84.00/M	ECE-V1CS100SR
	10	0.16	—	3.0	B	28	PCE3062CT-ND	.32	.26	.25	.23	PCE3062TR-ND	2,000	111.00/M	ECE-V1CA100SR
	22	0.26	—	3.5	B	28	PCE3179CT-ND	.29	.24	.22	.21	PCE3179TR-ND	2,000	101.00/M	ECE-V1CA220WR
	22	0.16	—	3.5	C	39	PCE3063CT-ND	.30	.25	.23	.21	PCE3063TR-ND	1,000	105.00	ECE-V1CA220SR
	33	0.26	—	5.3	C	35	PCE3180CT-ND	.26	.21	.20	.18	PCE3180TR-ND	1,000	90.00	ECE-V1CA330WR
	47	0.26	—	7.5	C	39	PCE3181CT-ND	.33	.27	.26	.24	PCE3181TR-ND	1,000	116.00	ECE-V1CA470WR
	47	0.16	—	7.5	D	70	PCE3064CT-ND	.34	.28	.26	.24	PCE3064TR-ND	1,000	120.00	ECE-V1CA470SP
	100	0.26	—	16.0	D	70	PCE3182CT-ND	.43	.35	.33	.30	PCE3182TR-ND	1,000	150.00	ECE-V1CA101WP
	100	0.20	—	16.0	E	200	PCE2043CT-ND	.51	.42	.39	.36	PCE2043TR-ND	1,000	180.00	ECE-V1CA101P
	220	0.16	—	35.2	D8	150	PCE3353CT-ND	.64	.53	.49	.45	PCE3353TR-ND	900	202.50	ECE-V1CA221XP
	220	0.20	—	35.2	E	200	PCE3275CT-ND	.64	.53	.49	.45	PCE3275TR-ND	1,000	225.00	ECE-V1CA221UP
	220	0.20	—	35.2	F	280	PCE2044CT-ND	.77	.63	.59	.54	PCE2044TR-ND	500	135.00	ECE-V1CA221P
	330	0.20	—	52.8	F	320	PCE3183CT-ND	.81	.67	.62	.57	PCE3183TR-ND	500	142.50	ECE-V1CA331UP
	330	0.20	—	52.8	G	380	PCE2045CT-ND	.94	.77	.72	.66	PCE2045TR-ND	500	165.00	ECE-V1CA331P
	470	0.20	—	75.2	F	350	PCE3184CT-ND	.85	.70	.65	.60	PCE3184TR-ND	500	150.00	ECE-V1CA471UP
	470	0.20	—	75.2	G	420	PCE2046CT-ND	.94	.77	.72	.66	PCE2046TR-ND	500	165.00	ECE-V1CA471P
25	4.7	0.16	—	3.0	A	12	PCE3065CT-ND	.24	.20	.19	.17	PCE3065TR-ND	2,000	84.00/M	ECE-V1ES4R7SR
	4.7	0.14	—	3.0	B	22	PCE3066CT-ND	.21	.17	.16	.15	PCE3066TR-ND	2,000	72.00/M	ECE-V1EA4R7SR
	10	0.14	—	3.0	C	28	PCE3067CT-ND	.34	.28	.26	.24	PCE3067TR-ND	1,000	120.00	ECE-V1EA100SR
	22	0.14	—	5.5	D	55	PCE3068CT-ND	.28	.23	.21	.20	PCE3068TR-ND	1,000	96.00	ECE-V1EA220SP
	33	0.20	—	8.2	C	42	PCE3276CT-ND	.33	.27	.26	.24	PCE3276TR-ND	1,000	116.00	ECE-V1EA330WR
	33	0.14	—	8.3	D	65	PCE3069CT-ND	.34	.28	.26	.24	PCE3069TR-ND	1,000	120.00	ECE-V1EA330SP
	47	0.16	—	11.8	D2	70	PCE3185CT-ND	.35	.29	.27	.25	PCE3185TR-ND	1,000	122.00	ECE-V1EA470UP
	100	0.14	—	25.0	D8	150	PCE3354CT-ND	.51	.42	.39	.36	PCE3354TR-ND	900	162.00	ECE-V1EA101XP
	100	0.16	—	25.0	E	91	PCE3186CT-ND	.51	.42	.39	.36	PCE3186TR-ND	1,000	180.00	ECE-V1EA101UP
	100	0.16	—	25.0	F	180	PCE2047CT-ND	.64	.53	.49	.45	PCE2047TR-ND	500	112.50	ECE-V1EA101P
	220	0.16	—	55.0	F	140	PCE3187CT-ND	.68	.56	.52	.48	PCE3187TR-ND	500	120.00	ECE-V1EA221UP
	220	0.16	—	55.0	G	310	PCE2048CT-ND	.77	.63	.59	.54	PCE2048TR-ND	500	135.00	ECE-V1EA221P
	330	0.16	—	82.5	F	270	PCE3188CT-ND	.61	.50	.47	.43	PCE3188TR-ND	500	106.50	ECE-V1EA331UP
	470	0.16	—	117.5	G	380	PCE3189CT-ND	.90	.74	.69	.63	PCE3189TR-ND	500	157.50	ECE-V1EA471P
35	2.2	0.14	—	3.0	A	8	PCE3070CT-ND	.24	.20	.19	.17	PCE3070TR-ND	2,000	84.00/M	ECE-V1VS2R2SR
	3.3	0.14	—	3.0	A	10	PCE3071CT-ND	.24	.20	.19	.17	PCE3071TR-ND	2,000	84.00/M	ECE-V1VS3R3SR
	4.7	0.12	—	3.0	B	22	PCE3072CT-ND	.26	.21	.20	.18	PCE3072TR-ND	2,000	90.00/M	ECE-V1VA4R7SR
	10	0.16	—	3.5	B	22	PCE3277CT-ND	.29	.24	.22	.21	PCE3277TR-ND	2,000	101.00/M	ECE-V1VA100WR
	10	0.12	—	3.5	C	30	PCE3073CT-ND	.30	.25	.23	.21	PCE3073TR-ND	1,000	105.00	ECE-V1VA100SR
	22	0.16	—	7.7	C	36	PCE3278CT-ND	.33	.27	.26	.24	PCE3278TR-ND	1,000	116.00	ECE-V1VA220WR
	22	0.12	—	7.7	D	60	PCE3074CT-ND	.34	.28	.26	.24	PCE3074TR-ND	1,000	120.00	ECE-V1VA220SP
	33	0.16	—	11.5	D	60	PCE3279CT-ND	.35	.29	.27	.25	PCE3279TR-ND	1,000	123.00	ECE-V1VA330WP
	33	0.14	—	11.6	D2	65	PCE3190CT-ND	.35	.29	.27	.25	PCE3190TR-ND	1,000	122.00	ECE-V1VA330UP
	33	0.14	—	11.6	E	130	PCE2049CT-ND	.43	.35	.33	.30	PCE2049TR-ND	1,000	150.00	ECE-V1VA330P
	47	0.16	—	16.4	D	70	PCE3280CT-ND	.43	.35	.33	.30	PCE3280TR-ND	1,000	150.00	ECE-V1VA470WP
	47	0.14	—	16.5	E	165	PCE2050CT-ND	.51	.42	.39	.36	PCE2050TR-ND	1,000	180.00	ECE-V1VA470P
	100	0.12	—	35.0	D8	130	PCE3355CT-ND	.64	.53	.49	.45	PCE3355TR-ND	900	202.50	ECE-V1VA101XP
	100	0.14	—	35.0	F	140	PCE3191CT-ND	.77	.63	.59	.54	PCE3191TR-ND	500	135.00	ECE-V1VA101UP
	100	0.14	—	35.0	G	210	PCE2051CT-ND	.90	.74	.69	.63	PCE2051TR-ND	500	157.50	ECE-V1VA101P
	220	0.14	—	77.0	F	200	PCE3192CT-ND	.61	.50	.47	.43	PCE3192TR-ND	500	106.50	ECE-V1VA221UP
	330	0.14	—	115.5	G	350	PCE3193CT-ND	.76	.62	.58	.54	PCE3193TR-ND	500	133.00	ECE-V1VA331P
50	0.1	0.14	—	3.0	A	1	PCE3075CT-ND	.24	.20	.19	.17	PCE3075TR-ND	2,000	84.00/M	ECE-V1HS0R1SR
	0.1	0.12	—	3.0	B	1	PCE3076CT-ND	.22	.18	.17	.15	PCE3076TR-ND	2,000	75.00/M	ECE-V1HA0R1SR
	0.22	0.14	—	3.0	A	2	PCE3077CT-ND	.24	.20	.19	.17	PCE3077TR-ND	2,000	84.00/M	ECE-V1HSR22SR
	0.22	0.12	—	3.0	B	2	PCE3078CT-ND	.21	.17	.16	.15	PCE3078TR-ND	2,000	72.00/M	ECE-V1HAR22SR
	0.33	0.14	—	3.0	A	3	PCE3079CT-ND	.24	.20	.19	.17	PCE3079TR-ND	2,000	84.00/M	ECE-V1HSR33SR
	0.33	0.12	—	3.0	B	3	PCE3080CT-ND	.21	.17	.16	.15	PCE3080TR-ND	2,000	72.00/M	ECE-V1HAR33SR

(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Impedance (ohms)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
50	0.47	0.14	—	3.0	A	5	PCE3081CT-ND	.24	.20	.19	.17	PCE3081TR-ND	2,000	84.00/M	ECE-V1HSR47SR
	0.47	0.12	—	3.0	B	5	PCE3082CT-ND	.21	.17	.16	.15	PCE3082TR-ND	2,000	72.00/M	ECE-V1HAR47SR
	1	0.14	—	3.0	A	8	PCE3083CT-ND	.24	.20	.19	.17	PCE3083TR-ND	2,000	84.00/M	ECE-V1HS010SR
	1	0.12	—	3.0	B	10	PCE3084CT-ND	.22	.18	.17	.15	PCE3084TR-ND	2,000	75.00/M	ECE-V1HA010SR
	2.2	0.14	—	3.0	A	10	PCE3085CT-ND	.24	.20	.19	.17	PCE3085TR-ND	2,000	84.00/M	ECE-V1HS2R2SR
	2.2	0.12	—	3.0	B	16	PCE3086CT-ND	.21	.17	.16	.15	PCE3086TR-ND	2,000	72.00/M	ECE-V1HA2R2SR
	3.3	0.12	—	3.0	B	16	PCE3087CT-ND	.26	.21	.20	.18	PCE3087TR-ND	2,000	90.00/M	ECE-V1HA3R3SR
	4.7	0.14	—	3.0	B	18	PCE3281CT-ND	.23	.19	.18	.16	PCE3281TR-ND	2,000	80.00/M	ECE-V1HA4R7WR
	4.7	0.12	—	3.0	C	23	PCE3088CT-ND	.24	.20	.19	.17	PCE3088TR-ND	1,000	84.00	ECE-V1HA4R7SR
	10	0.14	—	5.0	C	27	PCE3282CT-ND	.34	.28	.26	.24	PCE3282TR-ND	1,000	120.00	ECE-V1HA100WR
	10	0.12	—	5.0	D	35	PCE3089CT-ND	.37	.30	.28	.26	PCE3089TR-ND	1,000	128.00	ECE-V1HA100SP
	22	0.14	—	11.0	D	40	PCE3283CT-ND	.43	.35	.33	.30	PCE3283TR-ND	1,000	150.00	ECE-V1HA220WP
	22	0.12	—	11.0	D2	60	PCE3194CT-ND	.43	.35	.33	.30	PCE3194TR-ND	1,000	150.00	ECE-V1HA220UP
	22	0.12	—	11.0	E	120	PCE2053CT-ND	.51	.42	.39	.36	PCE2053TR-ND	1,000	180.00	ECE-V1HA220P
	33	0.12	—	16.5	D8	85	PCE3356CT-ND	.43	.35	.33	.30	PCE3356TR-ND	900	135.00	ECE-V1HA330XP
	33	0.12	—	16.5	E	65	PCE3195CT-ND	.43	.35	.33	.30	PCE3195TR-ND	1,000	150.00	ECE-V1HA330UP
	33	0.12	—	16.5	F	110	PCE2054CT-ND	.55	.46	.42	.39	PCE2054TR-ND	500	97.00	ECE-V1HA330P
	47	0.12	—	23.5	D8	90	PCE3357CT-ND	.43	.35	.33	.30	PCE3357TR-ND	900	135.00	ECE-V1HA470XP
	47	0.12	—	23.5	F	110	PCE3196CT-ND	.55	.46	.42	.39	PCE3196TR-ND	500	97.00	ECE-V1HA470UP
	47	0.12	—	23.5	G	130	PCE2055CT-ND	.71	.59	.55	.51	PCE2055TR-ND	500	125.50	ECE-V1HA470P
	100	0.12	—	50.0	F	200	PCE3197CT-ND	.61	.50	.47	.43	PCE3197TR-ND	500	106.50	ECE-V1HA101UP
	220	0.12	—	110.0	G	300	PCE3198CT-ND	.76	.62	.58	.54	PCE3198TR-ND	500	133.00	ECE-V1HA221P
63	10	0.18	—	6.3	E	35	PCE3199CT-ND	.35	.29	.27	.25	PCE3199TR-ND	1,000	122.00	ECE-V1JA100P
	22	0.18	—	13.9	E	40	PCE3284CT-ND	.54	.45	.41	.38	PCE3284TR-ND	1,000	189.00	ECE-V1JA220UP
	22	0.18	—	13.9	F	40	PCE3200CT-ND	.61	.50	.47	.43	PCE3200TR-ND	500	106.50	ECE-V1JA220P
	33	0.18	—	20.8	F	45	PCE3201CT-ND	.61	.50	.47	.43	PCE3201TR-ND	500	106.50	ECE-V1JA330P
	47	0.18	—	29.6	G	45	PCE3202CT-ND	.76	.62	.58	.54	PCE3202TR-ND	500	133.00	ECE-V1JA470P
	100	0.18	—	63.0	G	60	PCE3203CT-ND	.76	.62	.58	.54	PCE3203TR-ND	500	133.00	ECE-V1JA101P
100	3.3	0.18	—	3.3	E	50	PCE3204CT-ND	.45	.38	.35	.32	PCE3204TR-ND	1,000	159.00	ECE-V2AA3R3P
	4.7	0.18	—	4.7	E	50	PCE3285CT-ND	.54	.45	.41	.38	PCE3285TR-ND	1,000	189.00	ECE-V2AA4R7UP
	4.7	0.18	—	4.7	F	80	PCE3205CT-ND	.61	.50	.47	.43	PCE3205TR-ND	500	106.50	ECE-V2AA4R7P
	10	0.18	—	10.0	E	50	PCE3286CT-ND	.54	.45	.41	.38	PCE3286TR-ND	1,000	189.00	ECE-V2AA100UP
	10	0.18	—	10.0	F	85	PCE3206CT-ND	.61	.50	.47	.43	PCE3206TR-ND	500	106.50	ECE-V2AA100P
	22	0.18	—	22.0	F	70	PCE3287CT-ND	.69	.57	.53	.49	PCE3287TR-ND	500	121.00	ECE-V2AA220UP
	22	0.18	—	22.0	G	85	PCE3207CT-ND	.76	.62	.58	.54	PCE3207TR-ND	500	133.00	ECE-V2AA220P
	33	0.18	—	33.0	G	90	PCE3208CT-ND	.76	.62	.58	.54	PCE3208TR-ND	500	133.00	ECE-V2AA330P
HA Long Life Series: –40°C to +105°C (1000 Hour Life)															
6.3	22	0.30	—	3.0	B	29	PCE3000CT-ND	.25	.21	.20	.18	PCE3000TR-ND	2,000	61.00/M	EEV-HA0J220R
	47	0.35	—	3.0	B	36	PCE3288CT-ND	.28	.23	.22	.20	PCE3288TR-ND	2,000	68.00/M	EEV-HA0J470WR
	47	0.30	—	3.0	C	46	PCE3001CT-ND	.30	.25	.23	.21	PCE3001TR-ND	1,000	73.00	EEV-HA0J470R
	100	0.35	—	6.3	C	47	PCE3289CT-ND	.32	.26	.25	.23	PCE3289TR-ND	1,000	80.00	EEV-HA0J101WR
	100	0.30	—	6.3	D	71	PCE3002CT-ND	.34	.28	.26	.24	PCE3002TR-ND	1,000	86.00	EEV-HA0J101P
	220	0.35	—	13.8	D	74	PCE3290CT-ND	.43	.35	.33	.30	PCE3290TR-ND	1,000	102.00	EEV-HA0J221WP
	330	0.30	—	20.8	D8	105	PCE3358CT-ND	.52	.43	.40	.37	PCE3358TR-ND	900	106.20	EEV-HA0J331XP
	1000	0.35	—	63.0	F	300	PCE3209CT-ND	.74	.61	.56	.52	PCE3209TR-ND	500	91.50	EEV-HA0J102UP
	1500	0.35	—	94.5	G	480	PCE3210CT-ND	.92	.76	.70	.65	PCE3210TR-ND	500	117.50	EEV-HA0J152P
10	33	0.30	—	3.3	B	29	PCE3291CT-ND	.28	.23	.22	.20	PCE3291TR-ND	2,000	68.00/M	EEV-HA1A330WR
	33	0.22	—	3.3	C	43	PCE3003CT-ND	.30	.25	.23	.21	PCE3003TR-ND	1,000	73.00	EEV-HA1A330R
	100	0.30	—	10.0	D	71	PCE3211CT-ND	.34	.28	.26	.24	PCE3211TR-ND	1,000	86.00	EEV-HA1A101WP
	220	0.22	—	22.0	D8	105	PCE3359CT-ND	.52	.43	.40	.37	PCE3359TR-ND	900	106.20	EEV-HA1A221XP
	470	0.26	—	47.0	F	200	PCE3212CT-ND	.67	.55	.51	.47	PCE3212TR-ND	500	91.50	EEV-HA1A471UP
	1000	0.26	—	100.0	G	580	PCE3292CT-ND	.92	.76	.70	.65	PCE3292TR-ND	500	117.50	EEV-HA1A102P
16	10	0.16	—	3.0	B	28	PCE3004CT-ND	.32	.27	.25	.23	PCE3004TR-ND	2,000	61.00/M	EEV-HA1C100R
	22	0.26	—	3.5	B	28	PCE3293CT-ND	.28	.23	.22	.20	PCE3293TR-ND	2,000	68.00/M	EEV-HA1C220WR
	22	0.16	—	3.5	C	39	PCE3005CT-ND	.30	.25	.23	.21	PCE3005TR-ND	1,000	73.00	EEV-HA1C220R
	47	0.26	—	7.5	C	39	PCE3294CT-ND	.32	.26	.25	.23	PCE3294TR-ND	1,000	80.00	EEV-HA1C470WR
	47	0.16	—	7.5	D	70	PCE3006CT-ND	.34	.28	.26	.24	PCE3006TR-ND	1,000	86.00	EEV-HA1C470P
	100	0.26	—	16.0	D	70	PCE3295CT-ND	.42	.35	.32	.30	PCE3295TR-ND	1,000	102.00	EEV-HA1C101WP
	220	0.16	—	35.2	D8	105	PCE3360CT-ND	.52	.43	.40	.37	PCE3360TR-ND	900	106.20	EEV-HA1C221XP
	220	0.20	—	35.2	F	150	PCE3213CT-ND	.67	.55	.51	.47	PCE3213TR-ND	500	91.50	EEV-HA1C221UP
	330	0.20	—	52.8	F	170	PCE3214CT-ND	.67	.55	.51	.47	PCE3214TR-ND	500	91.50	EEV-HA1C331UP
	470	0.20	—	75.2	F	190	PCE3215CT-ND	.74	.61	.56	.52	PCE3215TR-ND	500	99.00	EEV-HA1C471UP
	470	0.20	—	75.2	G	340	PCE3216CT-ND	.83	.69	.64	.59	PCE3216TR-ND	500	107.00	EEV-HA1C471P
25	4.7	0.14	—	3.0	B	22	PCE3007CT-ND	.25	.21	.20	.18	PCE3007TR-ND	2,000	61.00/M	EEV-HA1E4R7R
	10	0.14	—	3.0	C	28	PCE3008CT-ND	.30	.25	.23	.21	PCE3008TR-ND	1,000	73.00	EEV-HA1E100R
	22	0.14	—	5.5	D	55	PCE3009CT-ND	.34	.28	.26	.24	PCE3009TR-ND	1,000	86.00	EEV-HA1E220P
	33	0.20	—	8.2	C	42	PCE3296CT-ND	.32	.26	.25	.23	PCE3296TR-ND	1,000	80.00	EEV-HA1E330WR
	33	0.14	—	8.3	D	65	PCE3010CT-ND	.34	.28	.26	.24	PCE3010TR-ND	1,000	86.00	EEV-HA1E330P
	47	0.20	—	11.7	D	70	PCE3297CT-ND	.43	.35	.33	.30	PCE3297TR-ND	1,000	102.00	EEV-HA1E470WP
	47	0.16	—	11.8	F	91	PCE3217CT-ND	.52	.43	.40	.37	PCE3217TR-ND	1,000	141.00	EEV-HA1E470P
	100	0.16	—	25.0	E	91	PCE3298CT-ND	.52	.43	.40	.37	PCE3298TR-ND	1,000	141.00	EEV-HA1E101UP
	100	0.16	—	25.0	F	130	PCE3218CT-ND	.67	.55	.51	.47	PCE3218TR-ND	500	91.50	EEV-HA1E101P
	220	0.16	—	55.0	F	160	PCE3219CT-ND	.74	.61	.56	.52	PCE3219TR-ND	500	99.50	EEV-HA1E221UP
	330	0.16	—	82.5	F	180	PCE3220CT-ND	.74	.61	.56	.52	PCE3220TR-ND	500	99.50	EEV-HA1E331UP
	470	0.16	—	117.5	G	360	PCE3221CT-ND	.92	.76	.70	.65	PCE3221TR-ND	500	117.50	EEV-HA1E471P
35	4.7	0.12	—	3.0	B	22	PCE3011CT-ND	.25	.21	.20	.18	PCE3011TR-ND	2,000	61.00/M	EEV-HA1V4R7R
	10	0.16	—	3.5	B	22	PCE3299CT-ND	.28	.23	.22	.20	PCE3299TR-ND	2,000	68.00/M	EEV-HA1V100WR
	10	0.12	—	3.5	C	30	PCE3012CT-ND	.30	.25	.23	.21	PCE3012TR-ND	1,000	73.00	EEV-HA1V100R
	22	0.16	—	7.7	C	35	PCE3300CT-ND	.32	.26	.25	.23	PCE3300TR-ND	1,000	80.00	EEV-HA1V220WR
	22	0.12	—	7.7	D	60	PCE3013CT-ND	.34	.28	.26	.24	PCE3013TR-ND	1,000	86.00	EEV-HA1V220P
	33	0.16	—	11.5	D	42	PCE3301CT-ND	.43	.35	.33	.30	PCE3301TR-ND	1,000	102.00	EEV-HA1V330WP
	33	0.14	—	11.6	E	84	PCE3222CT-ND	.52	.43	.40	.37	PCE3222TR-ND	1,000	141.00	EEV-HA1V330P
	47	0.14	—	16.5	E	84	PCE3302CT-ND	.52	.43	.40	.37	PCE3302TR-ND	1,000	141.00	EEV-HA1V470UP
	47	0.14	—	16.5	F	98	PCE3223CT-ND	.67	.55	.51	.47	PCE3223TR-ND	500	91.50	EEV-HA1V470P
	100	0.12	—	35.0	D8	84	PCE3361CT-ND	.52	.43	.40	.37	PCE3361TR-ND	900	106.20	EEV-HA1V101XP
	100	0.14	—	35.0	F	120	PCE3224CT-ND	.67	.55	.51	.47	PCE3224TR-ND	500	91.50	EEV-HA1V101UP
	220	0.14	—	77.0	F	170	PCE3225CT-ND	.74	.61	.56	.52	PCE3225TR-ND	500	99.00	EEV-HA1V221UP
	220	0.14	—	77.0	G	210	PCE3226CT-ND	.83	.69	.64	.59	PCE3226TR-ND	500	107.00	EEV-HA1V221P
	330	0.14	—	115.5	G	250	PCE3227CT-ND	.92	.76	.70	.65	PCE3227TR-ND	500	117.50	EEV-HA1V331P

(Continued)

Panasonic VV/TA/HD/VA/VS/HA/HB/FC/FK/EB Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Impe-dance (ohms)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
50	0.1	0.12	—	3.0	B	1	PCE3014CT-ND	.25	.21	.20	.18	PCE3014TR-ND	2,000	61.00/M	EEV-HA1HR10 R
	0.22	0.12	—	3.0	B	2	PCE3015CT-ND	.25	.21	.20	.18	PCE3015TR-ND	2,000	61.00/M	EEV-HA1HR22R
	0.33	0.12	—	3.0	B	3	PCE3016CT-ND	.25	.21	.20	.18	PCE3016TR-ND	2,000	61.00/M	EEV-HA1HR33R
	0.47	0.12	—	3.0	B	5	PCE3017CT-ND	.25	.21	.20	.18	PCE3017TR-ND	2,000	61.00/M	EEV-HA1HR47R
	1.0	0.12	—	3.0	B	10	PCE3018CT-ND	.26	.22	.20	.19	PCE3018TR-ND	2,000	61.00/M	EEV-HA1H010R
	2.2	0.12	—	3.0	B	16	PCE3019CT-ND	.25	.21	.20	.18	PCE3019TR-ND	2,000	61.00/M	EEV-HA1H2R2R
	3.3	0.12	—	3.0	B	16	PCE3020CT-ND	.25	.21	.20	.18	PCE3020TR-ND	2,000	61.00/M	EEV-HA1H3R3R
	4.7	0.12	—	3.0	C	23	PCE3021CT-ND	.30	.25	.23	.21	PCE3021TR-ND	1,000	73.00	EEV-HA1H4R7R
	10	0.12	—	5.0	D	35	PCE3022CT-ND	.43	.35	.33	.30	PCE3022TR-ND	1,000	86.00	EEV-HA1H100P
	22	0.12	—	11.0	E	70	PCE3228CT-ND	.52	.43	.40	.37	PCE3228TR-ND	1,000	141.00	EEV-HA1H220P
	33	0.12	—	16.5	D8	60	PCE3362CT-ND	.52	.43	.40	.37	PCE3362TR-ND	900	106.20	EEV-HA1H33Ï0XP
	33	0.12	—	16.5	E	70	PCE3303CT-ND	.52	.43	.40	.37	PCE3303TR-ND	1,000	141.00	EEV-HA1H330UP
	33	0.12	—	16.5	F	91	PCE3229CT-ND	.67	.55	.51	.47	PCE3229TR-ND	500	91.50	EEV-HA1H330P
	47	0.12	—	23.5	D8	63	PCE3363CT-ND	.52	.43	.40	.37	PCE3363TR-ND	900	106.20	EEV-HA1H470XP
	47	0.12	—	23.5	F	95	PCE3230CT-ND	.67	.55	.51	.47	PCE3230TR-ND	500	91.50	EEV-HA1H470UP
	100	0.12	—	50.0	F	110	PCE3231CT-ND	.74	.61	.56	.52	PCE3231TR-ND	500	99.50	EEV-HA1H101UP
	100	0.12	—	50.0	G	120	PCE3232CT-ND	.83	.69	.64	.59	PCE3232TR-ND	500	107.00	EEV-HA1H101P
	220	0.12	—	110.0	G	150	PCE3233CT-ND	.92	.76	.70	.65	PCE3233TR-ND	500	117.50	EEV-HA1H221P
63	10	0.18	—	6.3	E	25	PCE3234CT-ND	.55	.46	.42	.39	PCE3234TR-ND	1,000	157.00	EEV-HA1J100P
	22	0.18	—	13.9	E	30	PCE3304CT-ND	.65	.54	.50	.46	PCE3304TR-ND	1,000	172.00	EEV-HA1J220UP
	22	0.18	—	13.9	F	30	PCE3235CT-ND	.74	.61	.56	.52	PCE3235TR-ND	500	99.00	EEV-HA1J220P
	33	0.18	—	20.8	G	45	PCE3236CT-ND	.92	.76	.70	.65	PCE3236TR-ND	500	117.50	EEV-HA1J330P
	47	0.18	—	29.7	E	50	PCE3305CT-ND	.74	.61	.56	.52	PCE3305TR-ND	500	99.00	EEV-HA1J470UP
	47	0.18	—	29.6	G	50	PCE3237CT-ND	.92	.76	.70	.65	PCE3237TR-ND	500	117.50	EEV-HA1J470P
100	3.3	0.18	—	3.3	E	30	PCE3238CT-ND	.55	.46	.42	.39	PCE3238TR-ND	1,000	157.00	EEV-HA2A3R3P
	4.7	0.18	—	4.7	E	30	PCE3306CT-ND	.65	.54	.50	.46	PCE3306TR-ND	1,000	172.00	EEV-HA2A4R7UP
	4.7	0.18	—	4.7	F	50	PCE3239CT-ND	.74	.61	.56	.52	PCE3239TR-ND	500	99.00	EEV-HA2A4R7P
	10	0.18	—	10.0	F	55	PCE3240CT-ND	.74	.61	.56	.52	PCE3240TR-ND	500	99.00	EEV-HA2A100P
	22	0.18	—	22.0	E	55	PCE3307CT-ND	.83	.69	.64	.59	PCE3307TR-ND	500	109.00	EEV-HA2A220UP
	22	0.18	—	22.0	G	60	PCE3241CT-ND	.92	.76	.70	.65	PCE3241TR-ND	500	117.50	EEV-HA2A220P
	33	0.18	—	33.0	G	65	PCE3242CT-ND	.92	.76	.70	.65	PCE3242TR-ND	500	117.50	EEV-HA2A330P
HB Long Life High Reliability Series: –40°C to +105°C (2000 Hour Life)															
4	47	0.50	—	3.0	B	34	PCE3023CT-ND	.28	.23	.22	.20	PCE3023TR-ND	2,000	64.00/M	EEV-HB0G470R
	100	0.50	—	4.0	C	61	PCE3024CT-ND	.34	.28	.26	.24	PCE3024TR-ND	1,000	76.00	EEV-HB0G101R
	220	0.50	—	8.8	D	82	PCE3025CT-ND	.37	.31	.28	.26	PCE3025TR-ND	1,000	90.00	EEV-HB0G221P
6.3	22	0.30	—	3.0	B	26	PCE3026CT-ND	.28	.23	.22	.20	PCE3026TR-ND	2,000	64.00/M	EEV-HB0J220R
	33	0.30	—	3.0	B	29	PCE3027CT-ND	.28	.23	.22	.20	PCE3027TR-ND	2,000	64.00/M	EEV-HB0J330R
	47	0.30	—	3.0	C	46	PCE3028CT-ND	.32	.27	.25	.23	PCE3028TR-ND	1,000	76.00	EEV-HB0J470R
	100	0.30	—	6.3	D	71	PCE3029CT-ND	.37	.31	.28	.26	PCE3029TR-ND	1,000	90.00	EEV-HB0J101P
10	33	0.22	—	3.3	C	43	PCE3030CT-ND	.32	.27	.25	.23	PCE3030TR-ND	1,000	76.00	EEV-HB1A330R
16	10	0.16	—	3.0	B	28	PCE3031CT-ND	.28	.23	.22	.20	PCE3031TR-ND	2,000	64.00/M	EEV-HB1C100R
	22	0.16	—	3.5	C	39	PCE3032CT-ND	.32	.27	.25	.23	PCE3032TR-ND	1,000	76.00	EEV-HB1C220R
	47	0.16	—	7.5	D	70	PCE3033CT-ND	.37	.31	.28	.26	PCE3033TR-ND	1,000	90.00	EEV-HB1C470P
25	4.7	0.14	—	3.0	B	22	PCE3034CT-ND	.28	.23	.22	.20	PCE3034TR-ND	2,000	64.00/M	EEV-HB1E4R7R
	6.8	0.14	—	3.0	B	25	PCE3035CT-ND	.28	.23	.22	.20	PCE3035TR-ND	2,000	64.00/M	EEV-HB1E6R8R
	10	0.14	—	3.0	C	28	PCE3036CT-ND	.74	.61	.56	.52	PCE3036TR-ND	1,000	258.00	EEV-HB1E100R
	22	0.14	—	5.5	D	55	PCE3037CT-ND	.85	.70	.65	.60	PCE3037TR-ND	1,000	300.00	EEV-HB1E220P
	33	0.14	—	8.3	D	65	PCE3038CT-ND	.37	.31	.28	.26	PCE3038TR-ND	1,000	90.00	EEV-HB1E330P
35	10	0.12	—	3.5	C	28	PCE3039CT-ND	.32	.27	.25	.23	PCE3039TR-ND	1,000	76.00	EEV-HB1V100R
	22	0.12	—	7.7	D	55	PCE3040CT-ND	.37	.31	.28	.26	PCE3040TR-ND	1,000	90.00	EEV-HB1V220P
50	0.1	0.12	—	3.0	B	1	PCE3041CT-ND	.28	.23	.22	.20	PCE3041TR-ND	2,000	64.00/M	EEV-HB1HR10R
	0.22	0.12	—	3.0	B	2	PCE3042CT-ND	.28	.23	.22	.20	PCE3042TR-ND	2,000	64.00/M	EEV-HB1HR22R
	0.33	0.12	—	3.0	B	3	PCE3043CT-ND	.28	.23	.22	.20	PCE3043TR-ND	2,000	64.00/M	EEV-HB1HR33R
	0.47	0.12	—	3.0	B	5	PCE3044CT-ND	.28	.23	.22	.20	PCE3044TR-ND	2,000	64.00/M	EEV-HB1HR47R
	1	0.12	—	3.0	B	10	PCE3045CT-ND	.28	.23	.22	.20	PCE3045TR-ND	2,000	64.00/M	EEV-HB1H1R0R
	2.2	0.12	—	3.0	B	16	PCE3046CT-ND	.28	.23	.22	.20	PCE3046TR-ND	2,000	64.00/M	EEV-HB1H2R2R
	3.3	0.12	—	3.0	B	16	PCE3047CT-ND	.28	.23	.22	.20	PCE3047TR-ND	2,000	64.00/M	EEV-HB1H3R3R
	4.7	0.12	—	3.0	C	23	PCE3048CT-ND	.32	.27	.25	.23	PCE3048TR-ND	1,000	76.00	EEV-HB1H4R7R
	6.8	0.12	—	3.4	C	23	PCE3049CT-ND	.32	.27	.25	.23	PCE3049TR-ND	1,000	90.00	EEV-HB1H6R8R
	10.0	0.12	—	5.0	D	35	PCE3050CT-ND	.37	.31	.28	.26	PCE3050TR-ND	1,000	90.00	EEV-HB1H100P
FC Low Impedance High Reliability Series: –40°C to +105°C (1000 Hour Life; 5000 Hours for Case Sizes H, J, and K)															
6.3	22	0.26	3.00	3.0	B	60	PCE3090CT-ND	.31	.26	.24	.22	PCE3090TR-ND	2,000	75.00/M	EEV-FC0J220R
	47	0.26	1.80	3.0	C	95	PCE3091CT-ND	.37	.30	.28	.26	PCE3091TR-ND	1,000	89.00	EEV-FC0J470R
	68	0.26	1.00	4.3	D	140	PCE3092CT-ND	.42	.34	.32	.30	PCE3092TR-ND	1,000	105.00	EEV-FC0J680P
	100	0.26	1.00	6.3	D	140	PCE3093CT-ND	.42	.34	.32	.30	PCE3093TR-ND	1,000	105.00	EEV-FC0J101P
	220	0.26	0.40	13.9	E	230	PCE3094CT-ND	.64	.53	.49	.45	PCE3094TR-ND	1,000	172.00	EEV-FC0J221P
	330	0.26	0.30	20.8	F	450	PCE3095CT-ND	.83	.68	.64	.59	PCE3095TR-ND	500	111.50	EEV-FC0J331P
	1000	0.26	0.15	63.0	G	670	PCE3243CT-ND	1.03	.85	.79	.73	PCE3243TR-ND	500	130.50	EEV-FC0J102P
	1500	0.26	0.15	94.5	G	670	PCE3244CT-ND	1.13	.94	.87	.80	PCE3244TR-ND	500	143.00	EEV-FC0J152P
10	33	0.19	1.80	3.3	C	95	PCE3096CT-ND	.37	.30	.28	.26	PCE3096TR-ND	1,000	89.00	EEV-FC1A330R
	100	0.19	0.40	10.0	E	230	PCE3097CT-ND	.77	.63	.59	.54	PCE3097TR-ND	1,000	172.00	EEV-FC1A101P
	150	0.19	0.40	15.0	E	230	PCE3098CT-ND	.64	.53	.49	.45	PCE3098TR-ND	1,000	172.00	EEV-FC1A151P
	220	0.19	0.30	22.0	F	450	PCE3099CT-ND	.83	.68	.64	.59	PCE3099TR-ND	500	111.50	EEV-FC1A221P
	470	0.19	0.15	47.0	G	670	PCE3100CT-ND	1.03	.85	.79	.73	PCE3100TR-ND	500	130.50	EEV-FC1A471P
	1000	0.22	0.15	100.0	G	670	PCE3245CT-ND	1.03	.85	.79	.73	PCE3245TR-ND	500	130.50	EEV-FC1A102P
	1000	0.19	0.065	100.0	H16	1205	PCE3312CT-ND	2.05	1.69	1.57	—	—	—	—	EEV-FC1A102LQ
16	10	0.16	3.00	3.0	B	60	PCE3101CT-ND	.31	.26	.24	.22	PCE3101TR-ND	2,000	75.00/M	EEV-FC1C100R
	22	0.16	1.80	3.5	C	95	PCE3102CT-ND	.37	.30	.28	.26	PCE3102TR-ND	1,000	89.00	EEV-FC1C220R
	47	0.16	1.00	7.5	D	140	PCE3103CT-ND	.43	.35	.33	.30	PCE3103TR-ND	1,000	105.00	EEV-FC1C470P
	68	0.16	0.40	10.9	E	230	PCE3104CT-ND	.64	.53	.49	.45	PCE3104TR-ND	1,000	172.00	EEV-FC1C680P
	100	0.16	0.40	16.0	E	230	PCE3105CT-ND	.64	.53	.49	.45	PCE3105TR-ND	1,000	172.00	EEV-FC1C101P
	220	0.16	0.15	35.2	G	670	PCE3106CT-ND	1.07	.88	.82	.76	PCE3106TR-ND	500	130.50	EEV-FC1C221P
	330	0.16	0.15	52.8	G	670	PCE3107CT-ND	1.07	.88	.82	.76	PCE3107TR-ND	500	130.50	EEV-FC1C331P
	470	0.16	0.15	75.2	G	670	PCE3246CT-ND	1.03	.85	.79	.73	PCE3246TR-ND	500	130.50	EEV-FC1C471P
25	6.8	0.14	3.00	3.0	B	60	PCE3108CT-ND	.32	.27	.25	.23	PCE3108TR-ND	2,000	75.00/M	EEV-FC1E6R8R
	22	0.14	1.00	5.5	D	140	PCE3109CT-ND	.42	.34	.32	.30	PCE3109TR-ND	1,000	105.00	EEV-FC1E220P
	33	0.14	1.00	8.2	D	140	PCE3110CT-ND	.42	.34	.32	.30	PCE3110TR-ND	1,000	105.00	EEV-FC1E330P

(Continued)

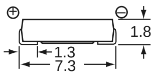
Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Impe-dance (ohms)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	Cut Tape Price Each 10	Cut Tape Price Each 25	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
25	47	0.14	0.40	11.8	E	230	PCE3111CT-ND	.67	.55	.51	.47	PCE3111TR-ND	1,000	172.00	EEV-FC1E470P
	68	0.14	0.30	17.0	F	450	PCE3112CT-ND	.83	.68	.64	.59	PCE3112TR-ND	500	111.50	EEV-FC1E680P
	100	0.14	0.30	25.0	F	450	PCE3247CT-ND	.83	.68	.64	.59	PCE3247TR-ND	500	111.50	EEV-FC1E101P
	330	0.14	0.15	82.5	G	670	PCE3248CT-ND	1.03	.85	.79	.73	PCE3248TR-ND	500	130.50	EEV-FC1E331P
	470	0.14	0.15	117.5	G	670	PCE3249CT-ND	1.13	.94	.87	.80	PCE3249TR-ND	500	143.00	EEV-FC1E471P
35	1.0	0.12	3.00	3.0	B	50	PCE3113CT-ND	.31	.26	.24	.22	PCE3113TR-ND	2,000	75.00/M	EEV-FC1V1R0R
	2.2	0.12	3.00	3.0	B	50	PCE3114CT-ND	.31	.26	.24	.22	PCE3114TR-ND	2,000	75.00/M	EEV-FC1V2R2R
	3.3	0.12	3.00	3.0	B	50	PCE3115CT-ND	.31	.26	.24	.22	PCE3115TR-ND	2,000	75.00/M	EEV-FC1V3R3R
	4.7	0.12	3.00	3.0	B	60	PCE3116CT-ND	.32	.27	.25	.23	PCE3116TR-ND	2,000	75.00/M	EEV-FC1V4R7R
	6.8	0.12	1.80	3.0	C	95	PCE3117CT-ND	.37	.30	.28	.26	PCE3117TR-ND	1,000	89.00	EEV-FC1V6R8R
	10	0.12	1.80	3.5	C	95	PCE3118CT-ND	.38	.31	.29	.27	PCE3118TR-ND	1,000	89.00	EEV-FC1V100R
	22	0.12	1.00	7.7	D	140	PCE3119CT-ND	.42	.34	.32	.30	PCE3119TR-ND	1,000	105.00	EEV-FC1V220P
	33	0.12	0.40	11.6	E	230	PCE3120CT-ND	.64	.53	.49	.45	PCE3120TR-ND	1,000	172.00	EEV-FC1V330P
	47	0.12	0.40	16.5	E	230	PCE3121CT-ND	.64	.53	.49	.45	PCE3121TR-ND	1,000	172.00	EEV-FC1V470P
	100	0.12	0.15	35.0	G	670	PCE3122CT-ND	1.03	.85	.79	.73	PCE3122TR-ND	500	130.50	EEV-FC1V101P
	220	0.12	0.15	77.0	G	670	PCE3250CT-ND	1.03	.85	.79	.73	PCE3250TR-ND	500	130.50	EEV-FC1V221P
	330	0.12	0.15	115.5	G	670	PCE3251CT-ND	1.13	.94	.87	.80	PCE3251TR-ND	500	143.00	EEV-FC1V331P
50	1	0.12	5.00	3.0	B	30	PCE3252CT-ND	.31	.26	.24	.22	PCE3252TR-ND	2,000	75.00/M	EEV-FC1H1R0R
	2.2	0.12	5.00	3.0	B	30	PCE3253CT-ND	.31	.26	.24	.22	PCE3253TR-ND	2,000	75.00/M	EEV-FC1H2R2R
	3.3	0.12	5.00	3.0	B	30	PCE3254CT-ND	.31	.26	.24	.22	PCE3254TR-ND	2,000	75.00/M	EEV-FC1H3R3R
	4.7	0.12	3.00	3.0	C	50	PCE3255CT-ND	.37	.30	.28	.26	PCE3255TR-ND	1,000	89.00	EEV-FC1H4R7R
	10	0.12	2.00	5.0	D	70	PCE3256CT-ND	.42	.34	.32	.30	PCE3256TR-ND	1,000	105.00	EEV-FC1H100P
	22	0.12	0.70	11.0	E	120	PCE3257CT-ND	.67	.55	.51	.47	PCE3257TR-ND	1,000	172.00	EEV-FC1H220P
	33	0.12	0.60	16.5	F	300	PCE3258CT-ND	.83	.68	.64	.59	PCE3258TR-ND	500	111.50	EEV-FC1H330P
	47	0.12	0.30	23.5	G	500	PCE3259CT-ND	1.03	.85	.79	.73	PCE3259TR-ND	500	130.50	EEV-FC1H470P
	100	0.12	0.30	50.0	G	500	PCE3260CT-ND	1.07	.88	.82	.76	PCE3260TR-ND	500	130.50	EEV-FC1H101P
	220	0.12	0.30	110.0	G	500	PCE3261CT-ND	1.13	.94	.87	.80	PCE3261TR-ND	500	143.00	EEV-FC1H221P
100	47	0.07	0.300	47.0	H16	511	PCE3333CT-ND	2.05	1.69	1.57	—	PCE3333TR-ND	150	108.30	EEV-FC2A470Q
	68	0.07	0.300	68.0	H16	511	PCE3334CT-ND	2.05	1.69	1.57	—	PCE3334TR-ND	150	108.30	EEV-FC2A680Q
FK Series: Low Impedance (40-60% lower than FC), High Reliability, Life Time 2000 hrs. at 105°C -55°C to +105°C															
6.3	22	0.26	1.35	3.0	B	90	PCE3377CT-ND	.37	.31	.29	.27	PCE3377TR-ND	2,000	85.00/M	EEV-FK0J220R
	47	0.26	1.35	3.0	B	90	PCE3378CT-ND	.37	.31	.29	.27	PCE3378TR-ND	2,000	85.00/M	EEV-FK0J470UR
	47	0.26	0.70	3.0	C	160	PCE3379CT-ND	.43	.36	.33	.31	PCE3379TR-ND	1,000	102.00	EEV-FK0J470R
	100	0.26	0.70	6.3	C	160	PCE3380CT-ND	.43	.36	.33	.31	PCE3380TR-ND	1,000	102.00	EEV-FK0J101UR
	100	0.26	0.36	6.3	D	240	PCE3381CT-ND	.50	.41	.38	.35	PCE3381TR-ND	1,000	120.00	EEV-FK0J101P
	220	0.26	0.36	13.9	D	240	PCE3382CT-ND	.50	.41	.38	.35	PCE3382TR-ND	1,000	120.00	EEV-FK0J221P
	330	0.26	0.26	20.8	E	300	PCE3383CT-ND	.82	.68	.63	.58	PCE3383TR-ND	1,000	196.00	EEV-FK0J331P
	330	0.26	0.34	20.8	D8	280	PCE3507CT-ND	.60	.50	.46	.43	PCE3507TR-ND	900	147.60	EEV-FK0J331XP
	470	0.26	0.16	29.6	F	600	PCE3384CT-ND	1.05	.87	.81	.75	PCE3384TR-ND	500	127.00	EEV-FK0J471P
	1000	0.26	0.16	63.0	F	600	PCE3385CT-ND	1.05	.87	.81	.75	PCE3385TR-ND	500	127.00	EEV-FK0J102P
	1500	0.26	0.08	94.5	G	850	PCE3386CT-ND	1.24	1.02	.95	.87	PCE3386TR-ND	500	149.00	EEV-FK0J152P
	3300	0.30	0.060	207.9	H13	1100	PCE3454CT-ND	1.93	1.59	1.47	1.36	PCE3454TR-ND	200	100.00	EEV-FK0J332Q
	6800	0.36	0.035	428.4	J16	1800	PCE3455CT-ND	3.13	2.58	2.39	—	PCE3455TR-ND	125	102.25	EEV-FK0J682M
10	22	0.19	1.35	3.0	B	90	PCE3387CT-ND	.37	.31	.29	.27	PCE3387TR-ND	2,000	85.00/M	EEV-FK1A220R
	33	0.19	1.35	3.3	B	90	PCE3388CT-ND	.37	.31	.29	.27	PCE3388TR-ND	2,000	85.00/M	EEV-FK1A330UR
	33	0.19	0.70	3.3	C	160	PCE3389CT-ND	.43	.36	.33	.31	PCE3389TR-ND	1,000	102.00	EEV-FK1A330R
	150	0.19	0.36	15.0	D	240	PCE3508CT-ND	.45	.37	.35	.32	PCE3508TR-ND	1,000	120.00	EEV-FK1A151P
	220	0.19	0.34	22.0	D8	280	PCE3509CT-ND	.60	.50	.46	.43	PCE3509TR-ND	900	147.60	EEV-FK1A221XP
	220	0.19	0.26	22.0	E	300	PCE3390CT-ND	.82	.68	.63	.58	PCE3390TR-ND	1,000	196.00	EEV-FK1A221P
	330	0.19	0.16	33.0	F	600	PCE3391CT-ND	1.05	.87	.81	.75	PCE3391TR-ND	500	127.00	EEV-FK1A331P
	470	0.19	0.16	47.0	F	600	PCE3392CT-ND	1.05	.87	.81	.75	PCE3392TR-ND	500	127.00	EEV-FK1A471P
	680	0.49	0.016	68.0	G	600	PCE3510CT-ND	.96	.79	.73	.68	PCE3510TR-ND	500	127.00	EEV-FK1A681P
	1000	0.19	0.08	100.0	G	850	PCE3393CT-ND	1.24	1.02	.95	.87	PCE3393TR-ND	500	149.00	EEV-FK1A102P
	2200	0.21	0.060	220.0	H13	1100	PCE3456CT-ND	1.93	1.59	1.47	1.36	PCE3456TR-ND	200	100.00	EEV-FK1A222Q
	4700	0.25	0.035	470.0	J16	1800	PCE3457CT-ND	3.13	2.58	2.39	—	PCE3457TR-ND	125	102.25	EEV-FK1A472M
	6800	0.29	0.033	680.0	K16	2060	PCE3458CT-ND	3.69	3.04	2.82	—	PCE3458TR-ND	125	120.63	EEV-FK1A682M
16	10	0.16	1.35	3.0	B	90	PCE3394CT-ND	.37	.31	.29	.27	PCE3394TR-ND	2,000	85.00/M	EEV-FK1C100R
	22	0.16	1.35	3.5	B	90	PCE3395CT-ND	.37	.31	.29	.27	PCE3395TR-ND	2,000	85.00/M	EEV-FK1C220UR
	22	0.16	0.70	3.5	C	160	PCE3396CT-ND	.43	.36	.33	.31	PCE3396TR-ND	1,000	102.00	EEV-FK1C220R
	47	0.16	0.70	7.5	C	160	PCE3397CT-ND	.43	.36	.33	.31	PCE3397TR-ND	1,000	102.00	EEV-FK1C470UR
	47	0.16	0.36	7.5	D	240	PCE3398CT-ND	.50	.41	.38	.35	PCE3398TR-ND	1,000	120.00	EEV-FK1C470P
	68	0.16	0.36	10.9	D	240	PCE3511CT-ND	.45	.37	.35	.32	PCE3511TR-ND	1,000	120.00	EEV-FK1C680P
	100	0.16	0.36	16.0	D	240	PCE3399CT-ND	.50	.41	.38	.35	PCE3399TR-ND	1,000	120.00	EEV-FK1C101P
	150	0.16	0.34	24.0	D8	280	PCE3512CT-ND	.60	.50	.46	.43	PCE3512TR-ND	900	147.60	EEV-FK1C151XP
	220	0.16	0.34	35.2	D8	280	PCE3513CT-ND	.60	.50	.46	.43	PCE3513TR-ND	900	147.60	EEV-FK1C221XP
	220	0.16	0.26	35.2	E	300	PCE3400CT-ND	.82	.68	.63	.58	PCE3400TR-ND	1,000	196.00	EEV-FK1C221P
	330	0.16	0.16	52.8	F	600	PCE3401CT-ND	1.05	.87	.81	.75	PCE3401TR-ND	500	127.00	EEV-FK1C331P
	470	0.16	0.16	75.2	F	600	PCE3402CT-ND	1.05	.87	.81	.75	PCE3402TR-ND	500	127.00	EEV-FK1C471P
	680	0.16	0.08	108.8	G	850	PCE3501CT-ND	1.24	1.02	.95	.87	PCE3501TR-ND	500	217.50	EEV-FK1C681P
	1500	0.16	0.060	240.0	H13	1100	PCE3459CT-ND	1.93	1.59	1.47	1.36	PCE3459TR-ND	200	100.00	EEV-FK1C152Q
	3300	0.20	0.035	528.0	J16	1800	PCE3460CT-ND	3.13	2.58	2.39	—	PCE3460TR-ND	125	102.25	EEV-FK1C332M
	4700	0.22	0.033	752.0	K16	2060	PCE3461CT-ND	3.69	3.04	2.82	—	PCE3461TR-ND	125	120.63	EEV-FK1C472M
25	10	0.14	1.35	3.0	B	90	PCE3403CT-ND	.37	.31	.29	.27	PCE3403TR-ND	2,000	85.00/M	EEV-FK1E100R
	22	0.14	0.70	5.5	C	160	PCE3404CT-ND	.43	.36	.33	.31	PCE3404TR-ND	1,000	102.00	EEV-FK1E220R
	33	0.14	0.70	8.3	C	160	PCE3405CT-ND	.43	.36	.33	.31	PCE3405TR-ND	1,000	102.00	EEV-FK1E330UR
	33	0.14	0.36	8.3	D	240	PCE3406CT-ND	.50	.41	.38	.35	PCE3406TR-ND	1,000	120.00	EEV-FK1E330P
	47	0.14	0.36	11.8	D	240	PCE3407CT-ND	.50	.41	.38	.35	PCE3407TR-ND	1,000	120.00	EEV-FK1E470P
	68	0.14	0.36	17.0	D	240	PCE3514CT-ND	.45	.37	.35	.32	PCE3514TR-ND	1,000	120.00	EEV-FK1E680P
	100	0.14	0.34	25.0	D8	280	PCE3515CT-ND	.60	.50	.46	.43	PCE3515TR-ND	900	147.60	EEV-FK1E101XP
	100	0.14	0.26	25.0	E	300	PCE3408CT-ND	.82	.68	.63	.58	PCE3408TR-ND	1,000	196.00	EEV-FK1E101P
	150	0.14	0.16	37.5	F	600	PCE3516CT-ND	.96	.79	.73	.68	PCE3516TR-ND	500	127.00	EEV-FK1E151P
	220	0.14	0.16	55.0	F	600	PCE3409CT-ND	1.05	.87	.81	.75	PCE3409TR-ND	500	127.00	EEV-FK1E221P
	330	0.14	0.16	82.5	F	600	PCE3410CT-ND	1.05	.87	.81	.75	PCE3410TR-ND	500	127.00	EEV-FK1E331P
	470	0.14	0.08	117.5	G	850	PCE3411CT-ND	1.24	1.02	.95	.87	PCE3411TR-ND	500	149.00	EEV-FK1E471P
	1000	0.14	0.060	250.0	H13	1100	PCE3462CT-ND	1.93	1.59	1.47	1.36	PCE3462TR-ND	200	100.00	EEV-FK1E102Q
	2200	0.16	0.035	550.0	J16	1800	PCE3463CT-ND	3.13	2.58	2.39	—	PCE3463TR-ND	125	102.25	EEV-FK1E222M
	3300	0.18	0.033	825.0	K16	2060	PCE3506CT-ND	3.69	3.04	2.82	—	PCE3506TR-ND	125	120.63	EEV-FK1E332M
35	4.7	0.12	1.35	3.0	B	90	PCE3412CT-ND	.37	.31	.29	.27	PCE3412TR-ND	2,000	85.00/M	EEV-FK1V4R7R
	10	0.12	1.35	3.5	B	90	PCE3413CT-ND	.37	.31	.29	.27	PCE3413TR-ND	2,000	85.00/M	EEV-FK1V100UR
	10	0.12	0.70	3.5	C	160	PCE3414CT-ND	.43	.36	.33	.31	PCE3414TR-ND	1,000	102.00	EEV-FK1V100R

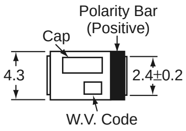
(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Impe-dance (ohms)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
35	22	0.12	0.70	7.7	C	160	PCE3415CT-ND	.43	.36	.33	.31	PCE3415TR-ND	1,000	102.00	EEV-FK1V220R
	33	0.12	0.36	11.6	D	240	PCE3416CT-ND	.50	.41	.38	.35	PCE3416TR-ND	1,000	120.00	EEV-FK1V330P
	47	0.12	0.36	16.5	D	240	PCE3417CT-ND	.50	.41	.38	.35	PCE3417TR-ND	1,000	120.00	EEV-FK1V470P
	68	0.12	0.34	23.8	D8	280	PCE3517CT-ND	.60	.50	.46	.43	PCE3517TR-ND	900	147.60	EEV-FK1V680XP
	100	0.12	0.34	35.0	D8	280	PCE3518CT-ND	.60	.50	.46	.43	PCE3518TR-ND	900	147.60	EEV-FK1V101XP
	100	0.12	0.16	35.0	F	600	PCE3418CT-ND	1.05	.87	.81	.75	PCE3418TR-ND	500	127.00	EEV-FK1V101P
	150	0.12	0.16	52.5	F	600	PCE3519CT-ND	.96	.79	.73	.68	PCE3519TR-ND	500	127.00	EEV-FK1V151P
	220	0.12	0.16	77.0	F	600	PCE3419CT-ND	1.05	.87	.81	.75	PCE3419TR-ND	500	127.00	EEV-FK1V221P
	330	0.12	0.08	115.5	G	850	PCE3420CT-ND	1.24	1.02	.95	.87	PCE3420TR-ND	500	149.00	EEV-FK1V331P
	470	0.12	0.060	164.5	H13	1100	PCE3464CT-ND	1.93	1.59	1.47	1.36	PCE3464TR-ND	200	100.00	EEV-FK1V471Q
	680	0.12	0.060	238.0	H13	1100	PCE3465CT-ND	1.93	1.59	1.47	1.36	PCE3465TR-ND	200	100.00	EEV-FK1V681Q
	1500	0.12	0.035	525.0	J16	1800	PCE3466CT-ND	3.13	2.58	2.39	—	PCE3466TR-ND	125	102.25	EEV-FK1V152M
50	4.7	0.10	2.90	3.0	B	60	PCE3467CT-ND	.40	.33	.30	.28	PCE3467TR-ND	2,000	85.00/M	EEV-FK1H4R7R
	10	0.10	1.52	5.0	C	85	PCE3468CT-ND	.46	.38	.35	.33	PCE3468TR-ND	1,000	102.00	EEV-FK1H100UR
	10	0.10	0.88	5.0	D	165	PCE3469CT-ND	.52	.43	.40	.37	PCE3469TR-ND	1,000	120.00	EEV-FK1H100P
	22	0.10	0.88	11.0	D	165	PCE3470CT-ND	.52	.43	.40	.37	PCE3470TR-ND	1,000	120.00	EEV-FK1H220P
	33	0.10	0.68	16.5	D8	195	PCE3520CT-ND	.63	.52	.48	.45	PCE3520TR-ND	900	147.60	EEV-FK1H330XP
	33	0.10	0.68	16.5	E	195	PCE3471CT-ND	.86	.71	.66	.61	PCE3471TR-ND	1,000	197.00	EEV-FK1H330P
	47	0.10	0.68	23.5	D8	195	PCE3521CT-ND	.63	.52	.48	.45	PCE3521TR-ND	900	147.60	EEV-FK1H470XP
	47	0.10	0.68	23.5	E	195	PCE3472CT-ND	.86	.71	.66	.61	PCE3472TR-ND	1,000	197.00	EEV-FK1H470P
	100	0.10	0.34	50.0	F	350	PCE3473CT-ND	1.10	.91	.85	.78	PCE3473TR-ND	500	127.00	EEV-FK1H101P
	150	0.10	0.18	75.0	G	670	PCE3522CT-ND	1.18	.97	.90	.83	PCE3522TR-ND	500	149.00	EEV-FK1H151P
	220	0.10	0.18	110.0	G	670	PCE3474CT-ND	1.29	1.07	.99	.91	PCE3474TR-ND	500	149.00	EEV-FK1H221P
	330	0.10	0.12	165.0	H13	900	PCE3475CT-ND	2.02	1.67	1.55	1.43	PCE3475TR-ND	200	100.00	EEV-FK1H331Q
	680	0.10	0.073	340.0	J16	1610	PCE3523CT-ND	2.91	2.39	2.22	—	PCE3523TR-ND	125	102.25	EEV-FK1H681M
	1000	0.10	0.073	500.0	J16	1610	PCE3477CT-ND	3.20	2.63	2.45	—	PCE3477TR-ND	125	102.25	EEV-FK1H102M
63	4.7	0.08	3.00	3.0	C	50	PCE3478CT-ND	.46	.38	.35	.33	PCE3478TR-ND	1,000	107.00	EEV-FK1J4R7R
	10	0.08	1.50	6.3	D	80	PCE3479CT-ND	.52	.43	.40	.37	PCE3479TR-ND	1,000	126.00	EEV-FK1J100P
	22	0.08	1.20	13.9	D8	120	PCE3524CT-ND	.63	.52	.48	.45	PCE3524TR-ND	900	154.80	EEV-FK1J220XP
	22	0.08	1.20	13.9	E	120	PCE3480CT-ND	.86	.71	.66	.61	PCE3480TR-ND	1,000	206.00	EEV-FK1J220P
	33	0.08	0.65	20.8	F	250	PCE3481CT-ND	1.10	.91	.85	.78	PCE3481TR-ND	500	133.50	EEV-FK1J330P
	47	0.08	0.65	29.6	F	250	PCE3482CT-ND	1.10	.91	.85	.78	PCE3482TR-ND	500	133.50	EEV-FK1J470P
	68	0.08	0.35	42.8	G	400	PCE3525CT-ND	1.18	.97	.90	.83	PCE3525TR-ND	500	156.50	EEV-FK1J680P
	100	0.08	0.35	63.0	G	400	PCE3483CT-ND	1.29	1.07	.99	.91	PCE3483TR-ND	500	156.50	EEV-FK1J101P
	150	0.08	0.16	94.5	H13	800	PCE3526CT-ND	1.84	1.52	1.41	1.30	PCE3526TR-ND	200	105.00	EEV-FK1J151Q
	220	0.08	0.16	138.6	H13	800	PCE3484CT-ND	2.02	1.67	1.55	1.43	PCE3484TR-ND	200	105.00	EEV-FK1J221Q
	470	0.08	0.082	296.1	J16	1410	PCE3485CT-ND	3.20	2.63	2.45	—	PCE3485TR-ND	125	107.38	EEV-FK1J471M
	680	0.08	0.080	428.4	K16	1690	PCE3486CT-ND	3.88	3.19	2.97	—	PCE3486TR-ND	125	126.63	EEV-FK1J681M
80	3.3	0.08	5.00	3.0	C	25	PCE3487CT-ND	.46	.38	.35	.33	PCE3487TR-ND	1,000	107.00	EEV-FK1K3R3R
	4.7	0.08	3.00	3.76	D	40	PCE3488CT-ND	.52	.43	.40	.37	PCE3488TR-ND	1,000	126.00	EEV-FK1K4R7P
	10	0.08	2.40	8.0	D8	60	PCE3527CT-ND	.63	.52	.48	.45	PCE3527TR-ND	900	154.80	EEV-FK1K100XP
	10	0.08	2.40	8.0	E	60	PCE3489CT-ND	.86	.71	.66	.61	PCE3489TR-ND	1,000	206.00	EEV-FK1K100P
	22	0.08	1.30	17.6	F	130	PCE3490CT-ND	1.10	.91	.85	.78	PCE3490TR-ND	500	133.50	EEV-FK1K220P
	33	0.08	1.30	26.4	F	130	PCE3491CT-ND	1.10	.91	.85	.78	PCE3491TR-ND	500	133.50	EEV-FK1K330P
	47	0.08	0.70	37.6	G	200	PCE3492CT-ND	1.29	1.07	.99	.91	PCE3492TR-ND	500	156.50	EEV-FK1K470P
	68	0.08	0.32	54.4	H13	500	PCE3528CT-ND	1.84	1.52	1.41	1.30	PCE3528TR-ND	200	105.00	EEV-FK1K680Q
	100	0.08	0.32	80.0	H13	500	PCE3493CT-ND	2.02	1.67	1.55	1.43	PCE3493TR-ND	200	105.00	EEV-FK1K101Q
	150	0.08	0.32	120.0	H13	500	PCE3494CT-ND	2.02	1.67	1.55	1.43	PCE3494TR-ND	200	105.00	EEV-FK1K151Q
	330	0.08	0.17	264.0	J16	793	PCE3495CT-ND	3.20	2.63	2.45	—	PCE3495TR-ND	125	107.38	EEV-FK1K331M
	470	0.08	0.153	376.0	K16	917	PCE3496CT-ND	3.88	3.19	2.97	—	PCE3496TR-ND	125	126.63	EEV-FK1K471M
100	22	0.07	1.30	22.0	F	130	PCE3502CT-ND	1.10	.91	.85	.78	PCE3502TR-ND	500	132.00	EEV-FK2A220P
	33	0.07	0.70	33.0	G	200	PCE3503CT-ND	1.29	1.07	.99	.91	PCE3503TR-ND	500	153.50	EEV-FK2A330P
	47	0.07	0.32	47.0	H13	500	PCE3497CT-ND	2.02	1.67	1.55	1.43	PCE3497TR-ND	200	105.00	EEV-FK2A470Q
	68	0.07	0.32	68.0	H13	500	PCE3498CT-ND	2.02	1.67	1.55	1.43	PCE3498TR-ND	200	105.00	EEV-FK2A680Q
	100	0.07	0.17	100.0	J16	793	PCE3504CT-ND	2.91	2.39	2.22	—	PCE3504TR-ND	125	107.38	EEV-FK2A101M
	150	0.07	0.17	150.0	J16	793	PCE3499CT-ND	3.20	2.63	2.45	—	PCE3499TR-ND	125	107.38	EEV-FK2A151M
	220	0.07	0.153	220.0	K16	917	PCE3500CT-ND	3.88	3.19	2.97	—	PCE3500TR-ND	125	126.63	EEV-FK2A221M
	330	0.07	0.153	330.0	K16	917	PCE3505CT-ND	3.88	3.19	2.97	—	PCE3505TR-ND	125	126.63	EEV-FK2A331M
EB Long Life, High Ripple Series: -20°C to +105°C															
160	10	0.15	—	16.0	G13	70	PCE3421CT-ND	1.45	1.20	1.11	—	PCE3421TR-ND	250	99.50	EEV-EB2C100Q
	33	0.15	—	52.8	H16	470	PCE3422CT-ND	2.40	1.98	1.84	—	PCE3422TR-ND	150	98.10	EEV-EB2C330SQ
200	22	0.15	—	44.0	H16	470	PCE3427CT-ND	2.40	1.98	1.84	—	PCE3427TR-ND	150	98.10	EEV-EB2D220SQ
250	10	0.15	—	25.0	G17	88	PCE3432CT-ND	1.67	1.38	1.28	—	PCE3432TR-ND	200	91.40	EEV-EB2E100Q
400	3.3	0.24	—	13.2	G13	40	PCE3441CT-ND	1.45	1.20	1.11	—	PCE3441TR-ND	250	99.50	EEV-EB2G3R3Q
	4.7	0.24	—	18.8	G17	50	PCE3442CT-ND	1.67	1.38	1.28	—	PCE3442TR-ND	200	91.40	EEV-EB2G4R7Q
450	2.2	0.24	—	9.9	G13	29	PCE3446CT-ND	1.45	1.20	1.11	—	PCE3446TR-ND	250	99.50	EEV-EB2W2R2Q
	3.3	0.24	—	14.9	G17	41	PCE3447CT-ND	1.67	1.38	1.28	—	PCE3447TR-ND	200	91.40	EEV-EB2W3R3Q
	4.7	0.24	—	21.2	H16	49	PCE3448CT-ND	2.40	1.98	1.84	—	PCE3448TR-ND	150	98.10	EEV-EB2W4R7SQ
VS BI-POLAR General Purpose Series: –40°C to +85°C (1000 Hour Life)															
6.3	22	0.52	—	6.0	C	29	PCE3123CT-ND	.37	.30	.28	.26	PCE3123TR-ND	1,000	128.00	ECE-V0JA220NR
	47	0.52	—	6.0	D	46	PCE3124CT-ND	.42	.34	.32	.30	PCE3124TR-ND	1,000	146.00	ECE-V0JA470NP
10	10	0.40	—	6.0	B	25	PCE3125CT-ND	.31	.26	.24	.22	PCE3125TR-ND	2,000	110.00/M	ECE-V1AA100NR
	33	0.40	—	6.6	D	43	PCE3126CT-ND	.42	.34	.32	.30	PCE3126TR-ND	1,000	146.00	ECE-V1AA330NP
16	4.7	0.32	—	6.0	B	20	PCE3127CT-ND	.31	.26	.24	.22	PCE3127TR-ND	2,000	110.00/M	ECE-V1CA4R7NR
	10	0.32	—	6.0	C	25	PCE3128CT-ND	.37	.30	.28	.26	PCE3128TR-ND	1,000	128.00	ECE-V1CA100NR
	22	0.32	—	7.0	D	39	PCE3129CT-ND	.42	.34	.32	.30	PCE3129TR-ND	1,000	146.00	ECE-V1CA220NP
25	3.3	0.28	—	6.0	B	12	PCE3130CT-ND	.31	.26	.24	.22	PCE3130TR-ND	2,000	110.00/M	ECE-V1EA3R3NR
	4.7	0.28	—	6.0	C	21	PCE3131CT-ND	.37	.30	.28	.26	PCE3131TR-ND	1,000	128.00	ECE-V1EA4R7NR
	10	0.28	—	6.0	D	28	PCE3132CT-ND	.43	.35	.33	.30	PCE3132TR-ND	1,000	150.00	ECE-V1EA100NP
35	2.2	0.24	—	6.0	B	12	PCE3133CT-ND	.31	.26	.24	.22	PCE3133TR-ND	2,000	110.00/M	ECE-V1VA2R2NR
	4.7	0.24	—	6.0	C	22	PCE3134CT-ND	.37	.30	.28	.26	PCE3134TR-ND	1,000	128.00	ECE-V1VA4R7NR
	10	0.24	—	7.0	D	30	PCE3135CT-ND	.42	.34	.32	.30	PCE3135TR-ND	1,000	146.00	ECE-V1VA100NP
50	0.22	0.24	—	6.0	B	2	PCE3136CT-ND	.31	.26	.24	.22	PCE3136TR-ND	2,000	110.00/M	ECE-V1HAR22NR
	0.33	0.24	—	6.0	B	3	PCE3137CT-ND	.31	.26	.24	.22	PCE3137TR-ND	2,000	110.00/M	ECE-V1HAR33NR
	0.47	0.24	—	6.0	B	5	PCE3138CT-ND	.31	.26	.24	.22	PCE3138TR-ND	2,000	110.00/M	ECE-V1HAR47NR
	1	0.24	—	6.0	B	10	PCE3139CT-ND	.31	.26	.24	.22	PCE3139TR-ND	2,000	110.00/M	ECE-V1HA010NR
	2.2	0.24	—	6.0	C	16	PCE3140CT-ND	.37	.30	.28	.26	PCE3140TR-ND	1,000	128.00	ECE-V1HA2R2NR
	3.3	0.24	—	6.0	C	21	PCE3141CT-ND	.68	.56	.52	.48	PCE3141TR-ND	1,000	239.00	ECE-V1HA3R3NP
	4.7	0.24	—	6.0	D	31	PCE3142CT-ND	.42	.34	.32	.30	PCE3142TR-ND	1,000	146.00	ECE-V1HA4R7NP

Panasonic® CD Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount

Features: • Low profile type (1.8mm Height) of D size • Low impedance at high frequency (10kHz-10MHz) as low as ceramic capacitors (reduced ESR due to an applying speciality polymer with high conductivity) • Excellent noise-absorbent characteristics • Surface mount (reflow soldering method avail.) • Very stable capacitance, impedance and ESR against temp. • Excellent endurance characteristics due to adoption of solid electrolyte **Specifications:** • **Operating Temperature Range:** –40°C ~ +105°C • **Capacitance Tolerance:** ±20% (120Hz/+20°C) • **DC Leakage Current:** I≤ 0.04CV or 3µA after 2 minutes (whichever is greater) • **Dissipation Factor:** ≤0.06 (120Hz/+20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 • **Endurance:** After applying rated working voltage for 1000 hours at +105°C, and then being stabilized at +20°C, capacitor shall meet following limits: Capacitance Change (±10% of initial measured value) DF and DC leakage current (initial specified value) • **Moisture Resistance:** (After storing for 500 hours at +60°C, 90-95% R.H.) Capacitance Change (+40%, of initial measured value, -20% (6.3V: +50%, -20%). DF ≤200% initial specified value. DC leakage current (initial specified value).





W.V.	Cap. (µF)	Impedance (400kHz/ +20°C)	Ripple Current‡ (100kHz/ +20~+100°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R* Pricing 3,500	Panasonic Part No.
2	100	0.025Ω	1.8 A rms	PCE3271CT-ND†	3.23	1.55	1.34	532.00/M	EEF-CD0D101R
	120	0.018Ω	1.8 A rms	PCE2107CT-ND	2.17	1.63	1.41	587.00/M	EEF-CD0D121R
	150	0.018Ω	2.5 A rms	PCE3561CT-ND *NEW!*	1.64	1.55	1.34	617.00/M	EEF-CD0D151R
2.5	82	0.025Ω	1.8 A rms	PCE3272CT-ND	3.23	1.55	1.34	532.00/M	EEF-CD0E820R
	100	0.018Ω	1.8 A rms	PCE2108CT-ND	2.19	1.64	1.43	587.00/M	EEF-CD0E101R
	120	0.018Ω	2.5 A rms	PCE3562CT-ND *NEW!*	1.64	1.55	1.34	617.00/M	EEF-CD0E121R
4	56	0.025Ω	1.8 A rms	PCE3274CT-ND†	3.13	1.55	1.34	532.00/M	EEF-CD0G560R
	82	0.018Ω	1.8 A rms	PCE2109CT-ND	2.17	1.63	1.41	587.00/M	EEF-CD0G820R
6.3	10	0.060Ω	1 A rms	PCE3157CT-ND	2.72	1.32	1.15	494.00/M	EEF-CD0J100R
	22	0.045Ω	1.3 A rms	PCE3158CT-ND	2.97	1.40	1.21	506.00/M	EEF-CD0J220R
	33	0.035Ω	1.6 A rms	PCE3159CT-ND	3.21	1.47	1.27	519.00/M	EEF-CD0J330R
	47	0.025Ω	1.8 A rms	PCE3160CT-ND†	3.46	1.55	1.34	532.00/M	EEF-CD0J470R
	68	0.018Ω	1.8 A rms	PCE2110CT-ND	2.17	1.63	1.41	587.00/M	EEF-CD0J680R
8	8.2	0.060Ω	1 A rms	PCE3161CT-ND	2.72	1.32	1.15	494.00/M	EEF-CD0K8R2R
	15	0.045Ω	1.3 A rms	PCE3162CT-ND	2.97	1.40	1.21	506.00/M	EEF-CD0K150R
	22	0.035Ω	1.6 A rms	PCE3163CT-ND	3.21	1.47	1.27	519.00/M	EEF-CD0K220R
	33	0.025Ω	1.8 A rms	PCE3164CT-ND†	3.46	1.55	1.34	532.00/M	EEF-CD0K330R
12.5	4.7	0.080Ω	1 A rms	PCE3165CT-ND	2.72	1.32	1.15	494.00/M	EEF-CD1B4R7R
	10	0.060Ω	1 A rms	PCE3166CT-ND	2.97	1.40	1.21	506.00/M	EEF-CD1B100R
	15	0.050Ω	1.3 A rms	PCE3167CT-ND	3.21	1.47	1.27	519.00/M	EEF-CD1B150R
	22	0.040Ω	1.3 A rms	PCE3168CT-ND	3.46	1.55	1.34	532.00/M	EEF-CD1B220R
16	2.2	0.110Ω	1 A rms	PCE3169CT-ND	2.72	1.32	1.15	494.00/M	EEF-CD1C2R2R
	4.7	0.080Ω	1 A rms	PCE3170CT-ND	2.97	1.40	1.21	506.00/M	EEF-CD1C4R7R
	6.8	0.070Ω	1 A rms	PCE3171CT-ND	3.21	1.47	1.27	519.00/M	EEF-CD1C6R8R
	8.2	0.060Ω	1 A rms	PCE3172CT-ND	3.46	1.55	1.34	532.00/M	EEF-CD1C8R2R

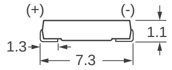
* For Tape and Reel Part Number, change CT-ND to TR-ND

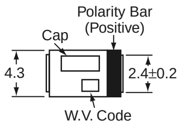
‡ Must be corrected for frequency using the Frequency Correction Factor (Sinewave current, Ambient temperature: Room temperature to 100°C): 10k (0.6), 20k (0.7), 50k (0.8), 100k (1.0), 250k (1.1), 500k (1.2), & 1M (1.3).

† **SP1-KIT-ND** ***Digi-Key® CD/UD/UE-Series Capacitors Kit*** 30 each of values denoted (360 total pieces). Kit consists of parts, hinged plastic storage box with selector guide, and a business card CDROM containing data sheets and application guide....................................... **$59.00**

FD Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount

Features: • Low profile type (1.1mm Height) • Low impedance at high frequency (10kHz-10MHz) as low as ceramic capacitors (reduced ESR due to applying specialty polymer with high conductivity) • Excellent noise-absorbent characteristics • Surface mount (reflow soldering method avail.) • Very stable capacitance, impedance and ESR against temp. • Excellent endurance character due to adoption of solid electrolyte **Specifications:** • **Operating Temp. Range:** -40 to +105°C • **Capacitance Tolerance:** +20% (120Hz/+20°C) • **DC Leakage Current:** I ≤ 0.04 CV or 3 (µA) after 2 minutes (whichever is the greater) (2 W.V. to 4 W.V.: I ≤ 0.06 CV) • **Dissipation Factor:** ≤0.06 (120Hz/+20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 (15 to 35°C) • **Endurance:** After applying rated working voltage for 1000 hours at +105±2°C, and then being stabilized at +20°C, capacitor shall meet the following limits: Capacitance change (±10% of initial measured value). tan (≤initial specified value). DC leakage current (≤initial specified value). • **Moisture Resistance:** (After storing for 500 hours at +60°C, 90% R.H.) Capacitance Change +40%, -20% of initial measured value (4 W.V.: +60%, -20%; 6.3 W.V.: +50%, -20%). D.F.≤200% initial specified value. DC leakage current (≤initial specified value).

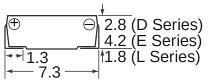


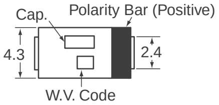


W.V.	Cap. (µF)	Impedance (400kHz/+20°C)	Ripple Current (100kHz/+20 to +105°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R Pricing* 3,500	Panasonic Part No.
2	68	0.035	1.6	PCE2105CT-ND	2.83	1.70	1.47	587.00/M	EEF-FD0D680R
2.5	56	0.035	1.6	PCE2106CT-ND	2.83	1.70	1.47	587.00/M	EEF-FD0E560R
4	39	0.035	1.6	PCE3451CT-ND	2.83	1.70	1.47	587.00/M	EEF-FD0G390R
6.3	33	0.035	1.6	PCE3452CT-ND	2.83	1.70	1.47	587.00/M	EEF-FD0J330R
8	22	0.035	1.6	PCE3453CT-ND	2.83	1.70	1.47	587.00/M	EEF-FD0K220R

* For Tape and Reel Part Number, change CT-ND to TR-ND

H Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount





Features:

• High Reliability (125°C) • Low ESR and High Ripple Current

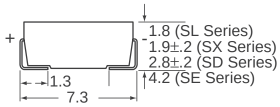
Specifications:

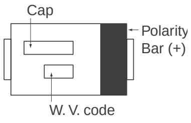
- **Operating Temp. Range:** –40°C ~ +125°C
- **Capacitance Tolerance:** ±20% (120Hz/+20°C)
- **DC Leakage Current:** I≤ 0.1CV after 2 minutes
- **Dissipation Factor:** 0.1 max (120Hz/+20°C)
- **Surge Voltage:** Rated Working Voltage x 1.25 (+15 to +35°C)
- **Endurance:** After applying rated working voltage for 1,000 hours or derated voltage (working voltage x 0.875 at 115°C or working voltage x 0.75 at 125°C) and then being stabilized at 20°C, the capacitor shall meet the following limits. Capacitance change ±10% of initial measured value. D.F.≤Initial specified value.
- **Moisture Resistance:** (After storing for 500 hours at +60°C, 90% R.H.) Capacitance Change (*2, 2.5V:* +70%, -20%, *4V:* +60%, -20%, *6.3V:* +50%, -20%, 8V: +40%, -20% of initial measured value). DF ≤200% initial specified value. DC leakage current (initial specified value).

W.V.	Cap. (µF)	ESR (100KHz/ +20°C)	Ripple Current (100KHz/ 125°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	Panasonic Part No.
				D Series						
2	180	.015Ω	2.2A	PCE2119CT-ND	4.45	3.34	2.89	2,000	1171.00/M	EEF-HD0D181R
2	220	.015	2.5A	PCE3529CT-ND *NEW!*	3.28	3.08	2.67	2,000	1232.00/M	EEF-HD0D221R
2.5	150	.015Ω	2.2A	PCE2120CT-ND	4.45	3.34	2.89	2,000	1171.00/M	EEF-HD0E151R
2.5	180	.015	2.5A	PCE3530CT-ND *NEW!*	3.28	3.08	2.67	2,000	1232.00/M	EEF-HD0E181R
4	120	.015Ω	2.2A	PCE2121CT-ND	4.45	3.34	2.89	2,000	1171.00/M	EEF-HD0G121R
6.3	100	.015Ω	2.2A	PCE2122CT-ND	4.45	3.34	2.89	2,000	1171.00/M	EEF-HD0J101R
8	68	.015Ω	2.2A	PCE2123CT-ND	4.45	3.34	2.89	2,000	1171.00/M	EEF-HD0K680R
				E Series						
2	270	.012Ω	3A	PCE2124CT-ND	6.15	4.62	4.00	2,000	1565.00/M	EEF-HE0D271R
2	330	.012	3A	PCE3531CT-ND *NEW!*	4.38	4.11	3.56	2,000	1643.00/M	EEF-HE0D331R
2.5	220	.012Ω	3A	PCE2125CT-ND	6.15	4.62	4.00	2,000	1565.00/M	EEF-HE0E221R
2.5	270	.012	3A	PCE3532CT-ND *NEW!*	4.38	4.11	3.56	2,000	1643.00/M	EEF-HE0E271R
4	180	.012Ω	3A	PCE2126CT-ND	6.15	4.62	4.00	2,000	1565.00/M	EEF-HE0G181R
6.3	150	.012Ω	3A	PCE2127CT-ND	6.15	4.62	4.00	2,000	1565.00/M	EEF-HE0J151R
8	100	.012Ω	3A	PCE2128CT-ND	6.15	4.62	4.00	2,000	1565.00/M	EEF-HE0K101R
				L Series						
2	100	.018	1.8A	PCE3533CT-ND *NEW!*	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0D101R
2.5	82	.018	1.8A	PCE3534CT-ND *NEW!*	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0E820R
4	56	.018	1.8A	PCE3535CT-ND *NEW!*	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0G560R
4	68	.018	1.8A	PCE3536CT-ND *NEW!*	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0G680R
6.3	47	.018	1.8A	PCE3537CT-ND *NEW!*	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0J470R
8	33	.018	1.8A	PCE3538CT-ND *NEW!*	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0K330R

* For Tape and Reel Part Number, change CT-ND to TR-ND

NEW! S Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount





Features:

• Lower ESR • Higher Ripple Current

Specifications:

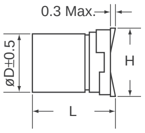
• **Operating Temp. Range:** –40°C ~ +105°C • **Rated W.V. Range:** 2 to 6.3VDC • **Nominal Capacitance Range:** 56 to 470µF • **Capacitance Tolerance:** ±20% (120Hz/+20°C) • **DC Leakage Current:** I≤ 0.06CV after 2 minutes • **Dissipation Factor:** 0.06 max (SL/SX), 0.10 max (SD/SE) (120Hz/+20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 (+15 to +35°C) • **Endurance:** After applying rated working voltage for 1,000 hours at + 105±2°C, and then being stabilized at +20°C, the capacitor shall meet the following limits. Capacitance change ±10% of initial measured value. D.F.and DC leakage current are ≤Initial specified value.

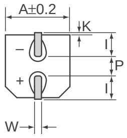
• **Moisture Resistance:** (After storing for 500 hours at +60°C, 90% R.H.) Capacitance Change (*2, 2.5W.V.:* +70%, -20%, *4W.V.:* +60%, -20%, *6.3W.V.:* +50%, -20%, of initial measured value). DF ≤200% initial specified value. DC leakage current initial specified value.

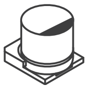
W.V.	Cap. (µF)	ESR (100KHz/ +20°C)	Ripple Current (100KHz/ 105°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	Panasonic Part No.
2	120	.009Ω	3A	PCE3551CT-ND	1.72	1.62	1.40	3,500	645.00/M	EEF-SL0D121R
2	150	.009Ω	3A	PCE3552CT-ND	1.81	1.70	1.48	3,500	680.00/M	EEF-SL0D151R
2.5	100	.009Ω	3A	PCE3553CT-ND	1.72	1.62	1.40	3,500	645.00/M	EEF-SL0E101R
2.5	120	.009Ω	3A	PCE3554CT-ND	1.81	1.70	1.48	3,500	680.00/M	EEF-SL0E121R
4	82	.009Ω	3A	PCE3555CT-ND	1.72	1.62	1.40	3,500	645.00/M	EEF-SL0G820R
6.3	56	.009Ω	3A	PCE3556CT-ND	1.72	1.62	1.40	3,500	645.00/M	EEF-SL0J560R
2	180	.009Ω	3A	PCE3557CT-ND	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0D181R
2.5	150	.009Ω	3A	PCE3558CT-ND	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0E151R
4	100	.009Ω	3A	PCE3559CT-ND	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0G101R
6.3	68	.009Ω	3A	PCE3560CT-ND	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0J680R
2	270	.007Ω	3.5A	PCE3539CT-ND	3.44	3.23	2.80	2,000	1289.00/M	EEF-SD0D271R
2	330	.007Ω	3.5A	PCE3540CT-ND	3.61	3.39	2.94	2,000	1353.00/M	EEF-SD0D331R
2.5	220	.007Ω	3.5A	PCE3541CT-ND	3.44	3.23	2.80	2,000	1289.00/M	EEF-SD0E221R
2.5	270	.007Ω	3.5A	PCE3542CT-ND	3.61	3.39	2.94	2,000	1353.00/M	EEF-SD0E271R
4	150	.007Ω	3.5A	PCE3543CT-ND	3.44	3.23	2.80	2,000	1289.00/M	EEF-SD0G151R
6.3	120	.007Ω	3.5A	PCE3544CT-ND	3.44	3.23	2.80	2,000	1289.00/M	EEF-SD0J121R
2	390	.005Ω	4A	PCE3545CT-ND	4.59	4.31	3.73	2,000	1721.00/M	EEF-SE0D391R
2	470	.005Ω	4A	PCE3546CT-ND	4.82	4.52	3.92	2,000	1808.00/M	EEF-SE0D471R
2.5	330	.005Ω	4A	PCE3547CT-ND	4.59	4.31	3.73	2,000	1721.00/M	EEF-SE0E331R
2.5	390	.005Ω	4A	PCE3548CT-ND	4.82	4.52	3.92	2,000	1808.00/M	EEF-SE0E391R
4	220	.005Ω	4A	PCE3549CT-ND	4.59	4.31	3.73	2,000	1721.00/M	EEF-SE0G221R
6.3	180	.005Ω	4A	PCE3550CT-ND	4.59	4.31	3.73	2,000	1721.00/M	EEF-SE0J181R

* For Tape and Reel Part Number, change CT-ND to TR-ND

Panasonic WA Series Specialty Polymer Aluminum Electrolytic Capacitors, Surface Mount







(mm)

* Reference Size

Size Code	D	L	A	H	I*	W	P*	K
E70	8.0	$6.9^{+0.1}_{-0.2}$	8.3	10.0 Max.	3.4	0.9±0.2	3.1	0.5±0.2
G80	10.0	$7.9^{+0.1}_{-0.3}$	10.3	12.0 Max.	3.5	0.9±0.2	4.6	0.5±0.2
G	10.0	10.2±0.3	10.3	12.0 Max.	3.5	0.9±0.2	4.6	0.5±0.2

Features: • Excellent Noise-Absorbent Characteristics • High Voltage • High Capacitance

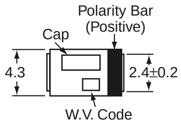
Specifications: • **Category Temperature Range:** -55 to 105°C • **Capacitance Tolerance:** ±20% (120Hz/20°C) • **DC Leakage Current:** I≤0.2CV (µA) After 2 minutes application of rated working voltage at 20°C • **Surge Voltage:** Rated Working Voltage x 1.15 (15 to 35°C) • **Endurance:** After applying rated working voltage for 2000 hours at +105±2°C, and then being stabilized at +20°C, capacitors shall meet the following limits: Capacitance change (±20% of initial measured value). tan δ (≤150% of initial specified value). DC leakage current (≤initial specified value). • **Moisture Resistance:** After storing for 1000 hours at 60°C, 90 to 95% R.H.: Capacitance Change (±20% of initial measured value). tan δ (≤150% of initial specified value). DC leakage current (≤initial specified value).

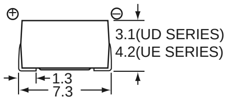
W.V. Rated (V.DC)	Cap. (µF)	Tan δ Max. 120Hz 20°C	L.C. (µA) Max.	ESR (m Ω) (100kHz, 20°C)	Permissible Ripple Current A rms (100kHz/ 20° to 105°C)	Case Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
								1	10	100		Size	Pricing	
6.3	150	0.15	189	35	3.05	E70	PCE2129CT-ND	2.16	1.62	1.41	PCE2129TR-ND	1,000	647.00	EEF-WA0J151P
6.3	220	0.15	277	32	3.05	E70	PCE2130CT-ND	2.16	1.62	1.41	PCE2130TR-ND	1,000	647.00	EEF-WA0J221P
6.3	330	0.12	416	22	4.13	G80	PCE2131CT-ND	2.70	2.03	1.76	PCE2131TR-ND	500	404.50	EEF-WA0J331P
6.3	390	0.12	491	22	4.13	G80	PCE2132CT-ND	2.70	2.03	1.76	PCE2132TR-ND	500	404.50	EEF-WA0J391P
6.3	470	0.12	592	20	5.10	G	PCE2133CT-ND	3.08	2.31	2.01	PCE2133TR-ND	500	462.00	EEF-WA0J471P
6.3	560	0.12	706	20	5.10	G	PCE2134CT-ND	3.08	2.31	2.01	PCE2134TR-ND	500	462.00	EEF-WA0J561P
6.3	680	0.12	856	15	5.10	G	PCE2135CT-ND	3.08	2.31	2.01	PCE2135TR-ND	500	462.00	EEF-WA0J681P
10	120	0.15	240	35	2.80	E70	PCE2136CT-ND	2.16	1.62	1.41	PCE2136TR-ND	1,000	647.00	EEF-WA1A121P
10	150	0.15	300	35	2.80	E70	PCE2137CT-ND	2.16	1.62	1.41	PCE2137TR-ND	1,000	647.00	EEF-WA1A151P
10	270	0.12	540	24	3.77	G80	PCE2138CT-ND	2.70	2.03	1.76	PCE2138TR-ND	500	404.50	EEF-WA1A271P
10	330	0.12	660	22	4.50	G	PCE2139CT-ND	3.08	2.31	2.01	PCE2139TR-ND	500	462.00	EEF-WA1A331P
10	470	0.12	940	17	4.50	G	PCE2140CT-ND	3.08	2.31	2.01	PCE2140TR-ND	500	462.00	EEF-WA1A471P
16	82	0.12	262	39	2.50	E70	PCE2147CT-ND	2.16	1.62	1.41	PCE2147TR-ND	1,000	647.00	EEF-WA1C820P
16	100	0.12	320	39	2.50	E70	PCE2141CT-ND	2.16	1.62	1.41	PCE2141TR-ND	1,000	647.00	EEF-WA1C101P
16	150	0.12	480	29	3.43	G80	PCE2142CT-ND	2.70	2.03	1.76	PCE2142TR-ND	500	404.50	EEF-WA1C151P
16	180	0.12	576	29	3.43	G80	PCE2143CT-ND	2.70	2.03	1.76	PCE2143TR-ND	500	404.50	EEF-WA1C181P
16	220	0.12	704	27	4.10	G	PCE2144CT-ND	3.08	2.31	2.01	PCE2144TR-ND	500	462.00	EEF-WA1C221P
16	270	0.12	480	27	4.10	G	PCE2145CT-ND	3.08	2.31	2.01	PCE2145TR-ND	500	462.00	EEF-WA1C271P
16	330	0.12	1056	22	4.10	G	PCE2146CT-ND	3.08	2.31	2.01	PCE2146TR-ND	500	462.00	EEF-WA1C331P
20	47	0.10	188	50	2.00	E70	PCE2149CT-ND	2.59	1.94	1.69	PCE2149TR-ND	1,000	776.00	EEF-WA1D470P
20	82	0.10	328	39	2.50	G80	PCE2150CT-ND	3.24	2.43	2.11	PCE2150TR-ND	500	485.50	EEF-WA1D820P
20	150	0.10	480	26	3.70	G	PCE2148CT-ND	3.70	2.78	2.41	PCE2148TR-ND	500	554.50	EEF-WA1D151P
25	22	0.10	110	50	1.60	E70	PCE2151CT-ND	2.59	1.94	1.69	PCE2151TR-ND	1,000	776.00	EEF-WA1E220P
25	33	0.10	165	39	2.20	G80	PCE2152CT-ND	3.24	2.43	2.11	PCE2152TR-ND	500	485.50	EEF-WA1E330P
25	82	0.10	410	30	3.30	G	PCE2153CT-ND	3.70	2.78	2.41	PCE2153TR-ND	500	554.50	EEF-WA1E820P

UD/UE Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount

Features: • Low impedance at high frequency (10kHz to 10MHz) as low as ceramic capacitors (Reduced ESR due to applying speciality polymer with high conductivity) • Stable temperature characteristics: capacitance, impedance and ESR • Excellent noise-absorbent characteristics • Voltage derating not necessary • Excellent endurance characteristics due to adoption of solid electrolyte

Specifications: • **Operating Temp. Range:** –40°C ~ +105°C • **Capacitance Tolerance:** ±20% (120Hz/+20°C) • **DC Leakage Current:** I≤ 0.06CV after 2 minutes • **Dissipation Factor:** ≤0.1 Max. (120Hz/+20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 • **Endurance:** After applying rated working voltage for 1000 hours at +105°C, and then being stabilized at +20°C, capacitor shall meet following limits: Capacitance Change (±10% of initial measured value). DF (initial specified value). DC leakage current (initial specified value). • **Moisture Resistance:** (After storing for 500 hours at +60°C, 90% R.H.) Capacitance Change (*2V:* +70%, -20%, *4V:* +60%, -20%, *6.3V:* +50%, -20% of initial measured value). DF ≤200% initial specified value. DC leakage current (initial specified value).

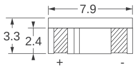


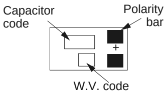


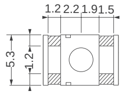
† **SP1-KIT-ND** ***Digi-Key® CD/UD/UE-Series Capacitors Kit*** 30 each of values denoted (240 total pieces). Kit consists of parts, hinged plastic storage box with selector guide, and a business card CDROM containing data sheets and application guide **$59.00**

W.V.	Cap. (µF)	ESR (100KHz/ +20°C)	Ripple Current (100KHz/ 105°C)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
					1	10	100			
				UD Series						
2	180	.018Ω	2A	PCE3262CT-ND†	6.62	3.03	2.63	PCE3262TR-ND	1065.00/M	EEF-UD0D181R
2	270	.015Ω	2A	PCE2111CT-ND	4.45	3.34	2.89	PCE2111TR-ND	1171.00/M	EEF-UD0D271R
2	330	.015Ω	3A	PCE3563CT-ND *NEW!*	3.28	3.08	2.67	PCE3563TR-ND *NEW!*	1230.00/M	EEF-UD0D331R
2.5	150	.018Ω	2A	PCE3273CT-ND	6.62	3.03	2.63	PCE3273TR-ND	1065.00/M	EEF-UD0E151R
2.5	220	.015Ω	2A	PCE2112CT-ND	4.45	3.34	2.89	PCE2112TR-ND	1171.00/M	EEF-UD0E221R
2.5	270	.015Ω	3A	PCE3564CT-ND *NEW!*	3.28	3.08	2.67	PCE3564TR-ND *NEW!*	1230.00/M	EEF-UD0E271R
4	120	.018Ω	2A	PCE3263CT-ND†	5.88	3.03	2.63	PCE3263TR-ND	1065.00/M	EEF-UD0G121R
4	150	.015Ω	2A	PCE2113CT-ND	4.45	3.34	2.89	PCE2113TR-ND	1171.00/M	EEF-UD0G151R
6.3	100	.018Ω	2A	PCE3264CT-ND†	5.88	3.03	2.63	PCE3264TR-ND	1065.00/M	EEF-UD0J101R
6.3	120	.015Ω	2A	PCE2114CT-ND	4.45	3.34	2.89	PCE2114TR-ND	1171.00/M	EEF-UD0J121R
8	68	.018Ω	2A	PCE3265CT-ND†	5.88	3.03	2.63	PCE3265TR-ND	1065.00/M	EEF-UD0K680R
				UE Series						
2	270	.015Ω	3A	PCE3266CT-ND†	8.32	4.20	3.64	PCE3266TR-ND	1422.00/M	EEF-UE0D271R
2	390	.012Ω	3A	PCE2115CT-ND	6.15	4.62	4.00	PCE2115TR-ND	1565.00/M	EEF-UE0D391R
2	470	.012Ω	3.3A	PCE3567CT-ND *NEW!*	4.38	4.11	3.56	PCE3567TR-ND *NEW!*	1643.00/M	EEF-UE0D471R
2.5	220	.015Ω	3A	PCE3267CT-ND	8.32	4.20	3.64	PCE3267TR-ND	1422.00/M	EEF-UE0E221R
2.5	330	.012Ω	3A	PCE2116CT-ND	6.15	4.62	4.00	PCE2116TR-ND	1565.00/M	EEF-UE0E331R
2.5	390	.012Ω	3.3A	PCE3568CT-ND *NEW!*	4.38	4.11	3.56	PCE3568TR-ND *NEW!*	1643.00/M	EEF-UE0E391R
4	180	.015Ω	3A	PCE3268CT-ND†	7.42	4.20	3.64	PCE3268TR-ND	1422.00/M	EEF-UE0G181R
4	220	.012Ω	3A	PCE2117CT-ND	6.15	4.62	4.00	PCE2117TR-ND	1565.00/M	EEF-UE0G221R
6.3	150	.015Ω	3A	PCE3269CT-ND†	7.42	4.20	3.64	PCE3269TR-ND	1422.00/M	EEF-UE0J151R
6.3	180	.012Ω	3A	PCE2118CT-ND	6.15	4.62	4.00	PCE2118TR-ND	1565.00/M	EEF-UE0J181R
8	100	.015Ω	3A	PCE3270CT-ND†	7.42	4.20	3.64	PCE3270TR-ND	1422.00/M	EEF-UE0K101R

SP/CB Series Specialty Polymer Aluminum Electrolytic Capacitors, Surface Mount







Features: • Excellent noise-absorbent characteristics • Surface mountable (Flow and reflow soldering method available) • Very stable capacitance, impedance and ESR against temperature •Excellent endurance characteristics due to an adoption of solid electrolyte **Specifications:** • **Operating Temperature Range:** –40°C to +105°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** 1≤ 0.04 CV or 3µA after 2 min. • **Dissipation Factor:** ≤0.06 (120kHz/+20°C) • **Permissible Current Between Terminals with Same Polarity:** 2A DC max. (This shall be applicable only when each terminal is landed individually as shown in Fig. 2.) • **Surge Voltage:** Rated working voltage x 1.25 • **Endurance:** After applying rated working voltage for 1000 hours at +105°C, and then being stabilized at +20°C, capacitor shall meet the following limits: Capacitance Change (±10% of initial measured value); tan, Impedance and DC Leakage Current (Initial specified value).

Rated W.V. (VDC)	Nom. Cap. (µF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000	Panasonic Part No.
			1	10	100			
6.3	10	PCS1100BCT-ND	2.41	2.01	1.74	PCS1100BTR-ND	804.00/M	ECG-C0JB100R
6.3	22	PCS1220JBCT-ND	2.92	2.44	2.11	PCS1220JBTR-ND	976.00/M	ECG-C0JB220R
6.3	33	PCS1330BCT-ND	3.56	2.97	2.57	PCS1330BTR-ND	1188.00/M	ECG-C0JB330R
8	8.2	PCS18R2BCT-ND	2.41	2.01	1.74	PCS18R2BTR-ND	804.00/M	ECG-C0KB8R2R
8	15	PCS1150BCT-ND	2.92	2.44	2.11	PCS1150BTR-ND	976.00/M	ECG-C0KB150R
8	22	PCS1220BCT-ND	3.56	2.97	2.57	PCS1220BTR-ND	1188.00/M	ECG-C0KB220R
12.5	4.7	—	—	—	—	PCE2101TR-ND	1354.00/M	ECG-C1BA4R7R
16	4.7	PCS34R7BCT-ND	2.41	2.01	1.74	PCS34R7BTR-ND	804.00/M	ECG-C1CB4R7R
16	6.8	PCS36R8BCT-ND	2.92	2.44	2.11	PCS36R8BTR-ND	976.00/M	ECG-C1CB6R8R

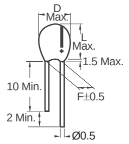
Panasonic® EF Series

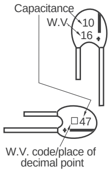
Resin Dipped Solid Tantalum Capacitors

Specifications:

- Operating Temperature Range: -55°C to +105°C (4 to 6.3V, -55°C to +85°C)
- Rated Working Voltage Range: 6.3 to 50 WV DC
- Rated Capacitance Range: .1 to 330 µF
- Capacitance Tolerance: As Specified
- Leakage Current: I = 0.008 CV or 0.05 µA whichever is greater; I in µA, C in µF, V in volts
- Leads are not less than 0.394" in length

Working Voltage	Surge Voltage
3.15V, DC	4V, DC
6.3	8
10	13
16	20
25	32
35	44
50	63

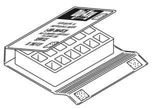




PANASONIC EF CROSS REFERENCES
Sprague: 196D; **Kemet:** T350/T360; **Mepco:** 49GS; **NEC:** DN; **Nichicon:** 599; **Hitachi:** TSD-3; **Matsuo:** 202; **AVX:** Tap.

Panasonic® Tantalum Capacitors

Assortment of 15 Popular Values — Panasonic Quality



Digi-Key® EF-Series Capacitors Kit

F-KIT-ND
ONLY

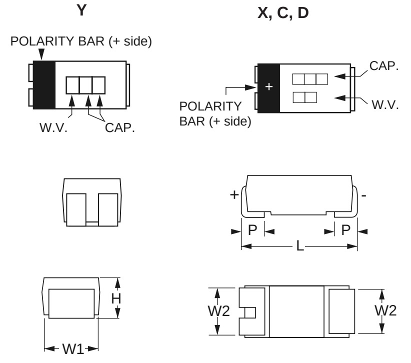
$39.95

180 TANTALUM CAPACITORS. Price includes notebook style storage case and bin storage guide for easy storage and quick access.

Voltage Volt. DC	Cap. (µF)	Cap. Tol. (%)	Dimensions (mm) D	L	F	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
6.3	4.7	±10	3.5	5.5	2.5	P2011-ND	.49	4.17	32.67	207.00	193.00/M	181.00/M	ECS-F0JE475K
	6.8	±10	3.5	5.5	2.5	P2012-ND	.53	4.53	35.49	225.00	210.00/M	196.00/M	ECS-F0JE685K
	10	±10	3.7	6.5	2.5	P2013-ND	.60	5.16	40.42	257.00	239.00/M	223.00/M	ECS-F0JE106K
	15	±10	4.0	7.0	2.5	P2014-ND	.69	5.91	46.30	294.00	274.00/M	256.00/M	ECS-F0JE156K
	22	±10	4.5	7.0	2.5	P2015-ND	.81	6.96	54.52	346.00	322.00/M	301.00/M	ECS-F0JE226K
	33	±10	4.7	8.0	2.5	P2016-ND	.97	8.31	65.10	413.00	385.00/M	360.00/M	ECS-F0JE336K
	47	±20	5.2	8.5	2.5	P2017-ND	1.25	10.74	84.13	534.00	497.00/M	465.00/M	ECS-F0JE476
	68	±20	5.5	9.5	2.5	P2018-ND	1.87	16.05	125.73	799.00	743.00/M	695.00/M	ECS-F0JE686
	100	±20	6.0	11.0	2.5	P2019-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F0JE107
	150	±20	7.5	12.5	5.0	P2020-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F0JE157
10	2.2	±10	3.3	5.5	2.5	P2022-ND	.43	3.66	28.67	182.00	169.00/M	158.00/M	ECS-F1AE225K
	3.3	±10	3.5	5.5	2.5	P2023-ND	.49	4.17	32.67	207.00	193.00/M	181.00/M	ECS-F1AE335K
	4.7	±10	3.5	5.5	2.5	P2024-ND	.53	4.53	35.49	225.00	210.00/M	196.00/M	ECS-F1AE475K
	6.8	±10	3.7	6.5	2.5	P2025-ND	.60	5.16	40.42	257.00	239.00/M	223.00/M	ECS-F1AE685K
	10	±10	4.0	7.0	2.5	P2026-ND	.74	6.33	49.59	315.00	293.00/M	274.00/M	ECS-F1AE106K
	15	±10	4.5	7.0	2.5	P2027-ND	.81	6.96	54.52	346.00	322.00/M	301.00/M	ECS-F1AE156K
	22	±10	4.7	8.0	2.5	P2028-ND	1.08	9.24	72.38	460.00	428.00/M	400.00/M	ECS-F1AE226K
	33	±10	5.2	8.5	2.5	P2029-ND	1.30	11.13	87.19	554.00	515.00/M	482.00/M	ECS-F1AE336K
	47	±10	5.5	9.5	2.5	P2030-ND	1.84	15.78	123.61	785.00	731.00/M	683.00/M	ECS-F1AE476K
	68	±20	6.0	11.0	2.5	P2031-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F1AE686
	100	±20	7.5	12.5	5.0	P2032-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F1AE107
16	1.0	±10	3.3	5.0	2.5	P2105-ND	.42	3.60	28.20	179.00	167.00/M	156.00/M	ECS-F1CE105K
	1.5	±10	3.3	5.5	2.5	P2033-ND*	.45	3.87	30.32	193.00	179.00/M	168.00/M	ECS-F1CE155K
	2.2	±10	3.5	5.5	2.5	P2034-ND*	.49	4.17	32.67	207.00	193.00/M	181.00/M	ECS-F1CE225K
	3.3	±10	3.5	5.5	2.5	P2035-ND*	.50	4.32	33.84	215.00	200.00/M	187.00/M	ECS-F1CE335K
	4.7	±10	3.7	6.5	2.5	P2036-ND*	.59	5.04	39.48	251.00	233.00/M	218.00/M	ECS-F1CE475K
	6.8	±10	4.0	7.0	2.5	P2037-ND*	.70	6.03	47.24	300.00	279.00/M	261.00/M	ECS-F1CE685K
	10	±10	4.5	7.0	2.5	P2038-ND*	.99	8.46	66.27	421.00	392.00/M	366.00/M	ECS-F1CE106K
	15	±10	4.7	8.0	2.5	P2039-ND*	1.14	9.75	76.38	485.00	451.00/M	422.00/M	ECS-F1CE156K
	22	±10	5.2	8.5	2.5	P2040-ND*	1.30	11.13	87.19	554.00	515.00/M	482.00/M	ECS-F1CE226K
	33	±10	5.5	9.5	2.5	P2041-ND	1.85	15.87	124.32	790.00	735.00/M	687.00/M	ECS-F1CE336K
	47	±20	6.0	11.0	2.5	P2042-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F1CE476
	68	±20	7.5	12.5	5.0	P2043-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F1CE686
25	1.5	±10	3.5	5.5	2.5	P2044-ND	.49	4.17	32.67	207.00	193.00/M	181.00/M	ECS-F1EE155K
	2.2	±10	3.5	5.5	2.5	P2045-ND	.54	4.62	36.19	230.00	214.00/M	200.00/M	ECS-F1EE225K
	3.3	±10	3.7	6.5	2.5	P2046-ND	.64	5.49	43.01	273.00	254.00/M	238.00/M	ECS-F1EE335K
	4.7	±10	4.0	7.0	2.5	P2047-ND	.83	7.11	55.70	354.00	329.00/M	308.00/M	ECS-F1EE475K
	6.8	±10	4.5	7.0	2.5	P2048-ND	.98	8.43	66.04	419.00	390.00/M	365.00/M	ECS-F1EE685K
	10	±10	5.2	8.5	2.5	P2049-ND	1.61	13.83	108.34	688.00	640.00/M	599.00/M	ECS-F1EE106K
	15	±10	5.5	9.5	2.5	P2050-ND	1.86	15.90	124.55	791.00	736.00/M	688.00/M	ECS-F1EE156K
	22	±20	6.0	11.0	2.5	P2051-ND	2.64	22.62	177.19	1125.00	1047.00/M	979.00/M	ECS-F1EE226
	33	±20	7.5	12.5	5.0	P2052-ND	3.92	33.60	263.20	1672.00	1556.00/M	1455.00/M	ECS-F1EE336
35	0.1	±20	3.3	5.0	2.5	P2053-ND*	.39	3.33	26.09	166.00	154.00/M	144.00/M	ECS-F1VE104
	0.15	±20	3.3	5.0	2.5	P2054-ND*	.39	3.33	26.09	166.00	154.00/M	144.00/M	ECS-F1VE154
	0.22	±20	3.3	5.0	2.5	P2055-ND*	.39	3.33	26.09	166.00	154.00/M	144.00/M	ECS-F1VE224
	0.33	±20	3.3	5.0	2.5	P2056-ND*	.40	3.42	26.79	170.00	158.00/M	148.00/M	ECS-F1VE334
	0.47	±20	3.3	5.5	2.5	P2057-ND*	.42	3.60	28.20	179.00	167.00/M	156.00/M	ECS-F1VE474
	0.68	±20	3.3	5.5	2.5	P2058-ND*	.45	3.87	30.32	193.00	179.00/M	168.00/M	ECS-F1VE684
	1.0	±10	3.5	5.5	2.5	P2059-ND*	.56	4.83	37.84	240.00	224.00/M	209.00/M	ECS-F1VE105K
	1.5	±10	3.5	5.5	2.5	P2060-ND	.54	4.62	36.19	230.00	214.00/M	200.00/M	ECS-F1VE155K
	2.2	±10	3.7	6.5	2.5	P2061-ND	.64	5.49	43.01	273.00	254.00/M	238.00/M	ECS-F1VE225K
	3.3	±10	4.0	7.0	2.5	P2062-ND	.83	7.11	55.70	354.00	329.00/M	308.00/M	ECS-F1VE335K
	4.7	±10	4.5	7.0	2.5	P2063-ND	.98	8.43	66.04	419.00	390.00/M	365.00/M	ECS-F1VE475K
	6.8	±10	5.2	8.5	2.5	P2064-ND	1.65	14.13	110.69	703.00	654.00/M	612.00/M	ECS-F1VE685K
	10	±10	5.5	9.5	2.5	P2065-ND	1.86	15.90	124.55	791.00	736.00/M	688.00/M	ECS-F1VE106K
	15	±20	6.0	11.0	2.5	P2066-ND	2.95	25.29	198.11	1258.00	1171.00/M	1095.00/M	ECS-F1VE156
	22	±20	7.5	12.5	5.0	P2101-ND	4.02	34.44	269.78	1713.00	1594.00/M	1491.00/M	ECS-F1VE226
50	0.1	±20	3.3	5.0	2.5	P2067-ND	.43	3.66	28.67	182.00	169.00/M	158.00/M	ECS-F1HE104
	0.15	±20	3.3	5.0	2.5	P2068-ND	.43	3.66	28.67	182.00	169.00/M	158.00/M	ECS-F1HE154
	0.22	±20	3.3	5.5	2.5	P2069-ND	.47	4.02	31.49	200.00	186.00/M	174.00/M	ECS-F1HE224
	0.33	±20	3.5	5.5	2.5	P2070-ND	.47	4.02	31.49	200.00	186.00/M	174.00/M	ECS-F1HE334
	0.47	±20	3.7	6.5	2.5	P2071-ND	.51	4.38	34.31	218.00	203.00/M	190.00/M	ECS-F1HE474
	0.68	±20	3.7	6.5	2.5	P2072-ND	.63	5.40	42.30	269.00	250.00/M	234.00/M	ECS-F1HE684
	1.0	±10	4.0	7.0	2.5	P2073-ND	.78	6.72	52.64	334.00	311.00/M	291.00/M	ECS-F1HE105K
	1.5	±10	4.5	7.0	2.5	P2074-ND	1.31	11.25	88.13	560.00	521.00/M	487.00/M	ECS-F1HE155K
	2.2	±10	4.7	8.0	2.5	P2075-ND	1.60	13.71	107.40	682.00	635.00/M	594.00/M	ECS-F1HE225K
	3.3	±10	5.2	8.5	2.5	P2076-ND	2.30	19.74	154.63	982.00	914.00/M	855.00/M	ECS-F1HE335K
	4.7	±10	5.5	9.5	2.5	P2077-ND	3.05	26.13	204.69	1300.00	1210.00/M	1131.00/M	ECS-F1HE475K

* Included in F-KIT-ND.

Panasonic® TE Series Tantalum Electrolytic Chip Capacitors



Dimensions (mm)

EIA Size	Size Code	L ± 0.2	W_1 ± 0.2	W_2 ± 0.1	H ± 0.2	P ± 0.3
A	Y	3.2	1.6	1.2	1.6	0.8
B	X	3.5	2.8	2.2	1.9	0.8
C	C	6.0	3.2	2.2	2.5	1.3
D	D	7.3	4.3	2.4	2.8	1.3

Packing Quantity	Size Y, X	2,000 pieces/reel
	Size C, D	750 pieces/reel

Features

• Wide capacitance range • High performance in temperature and frequency characteristics • Excellent solderability • Excellent terminal construction against bending of P.W.B • Low inductance structure.

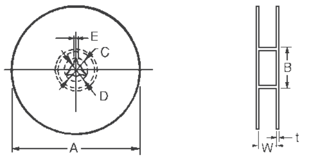
Specifications

• **Operating Temp. Range:** –55 to +125°C • **Capacitance Tolerance:** ±20% at 120Hz, +20°C • **DC Leakage Current:** I = 0.01CV or 0.5µA max. whichever is greater DC leakage current shall be measured after 2 minutes application or rated working voltage at +20°C • **tan ∂:** ≤3.3µF – 0.04 max.; 4.7 ~ 68µF – 0.06 max.; 100µF – 0.08 max • **Solder Heat Resistance:** The capacitor shall withstand dipping into solder bath for 5 ±1 sec at 260 ±5°C • **Moisture Resistance:** Capacitor shall be tested for 500 hours at +40°C and 90-95% R.H. without load After the test, capacitor shall meet the following limits.

Cap. change	± 10% of the initial measured value.
DC leakage	≤ current initial specified value.
tan ∂	≤ initial specified value.

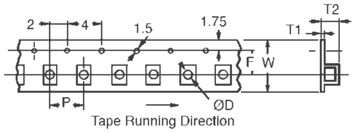
• **Endurance:** After 2000 hours application of DC rated working voltage at +85°C, or derated voltage at +125°C, the capacitor shall meet the following limits.

Cap. change	± 10% of the initial measured value.
DC leakage	≤ 125% of the current initial specified value.
tan ∂	≤ initial specified value.



Dimensions (mm)

	∂A ± 2	∂B Min.	C ± 0.5	D ± 0.8	E ± 0.5	W ± 1.5	t ± 0.5
12mm tape	178	50	13.0	21.0	2.0	14.0	2.0
8mm tape	178	50	13.0	21.0	2.0	10.0	2.0



Dimensions (mm)

Size Code	W ± 0.3	P ± 0.1	T_1 ± 0.2	F ± 0.1	T_2	ØD ± 0.1
Y X	8.0	4.0	1.9 2.1	3.5	0.2	1.1
C D	12.0	8.0	3.0 3.3	5.5	0.3	1.6

WV (DC)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
6.3	3.3	A	Y	PCS1335CT-ND	.43	.38	.30	PCS1335TR-ND	2,000	85.00/M	ECS-TOJY335R
	4.7	A	Y	PCS1475CT-ND	.45	.39	.31	PCS1475TR-ND	2,000	88.00/M	ECS-TOJY475R
	6.8	A	Y	PCS1685CT-ND	.47	.42	.33	PCS1685TR-ND	2,000	90.00/M	ECS-TOJY685R
	10	A	Y	PCS1106CT-ND	.52	.46	.36	PCS1106TR-ND	2,000	90.00/M	ECS-TOJY106R
	15	B	X	PCS1156CT-ND	.61	.53	.42	PCS1156TR-ND	2,000	110.00/M	ECS-TOJX156R
	15	A	Y	P11303CT-ND	.54	.47	.37	P11303TR-ND	2,000	93.00/M	ECS-T0JY156R
	22	A	Y	P11304CT-ND	.85	.75	.59	P11304TR-ND	2,000	102.00/M	ECS-T0JY226R
	22	B	X	PCS1226CT-ND	.63	.55	.43	PCS1226TR-ND	2,000	118.00/M	ECS-TOJX226R
	33	C	C	PCS1336CT-ND	1.17	1.02	.81	PCS1336TR-ND	750	185.25	ECS-TOJC336R
	47	B	X	P11305CT-ND	.80	.70	.56	P11305TR-ND	2,000	153.00/M	ECS-T0JX476R
	47	D	D	PCS1476CT-ND	1.41	1.24	.98	PCS1476TR-ND	750	263.25	ECS-TOJD476R
	68	C	C	P11306CT-ND	1.17	1.02	.81	P11306TR-ND	750	197.25	ECS-T0JC686R
	68	D	D	PCS1686CT-ND	1.56	1.37	1.08	PCS1686TR-ND	750	281.25	ECS-TOJD686R
	100	D	D	P11307CT-ND	1.65	1.44	1.14	P11307TR-ND	750	299.25	ECS-T0JD107R
	220	D	D	P11308CT-ND	2.26	1.97	1.56	P11308TR-ND	750	351.00	ECS-T0JD227R
10	2.2	A	Y	PCS2225CT-ND	.43	.38	.30	PCS2225TR-ND	2,000	85.00/M	ECS-T1AY225R
	3.3	A	Y	PCS2335CT-ND	.44	.38	.30	PCS2335TR-ND	2,000	85.00/M	ECS-T1AY335R
	4.7	A	Y	PCS2475CT-ND	.48	.42	.33	PCS2475TR-ND	2,000	88.00/M	ECS-T1AY475R
	10	A	Y	P11309CT-ND	.55	.48	.38	P11309TR-ND	2,000	93.00/M	ECS-T1AY106R
	10	B	X	PCS2106CT-ND	.61	.53	.42	PCS2106TR-ND	2,000	110.00/M	ECS-T1AX106R
	15	B	X	PCS2156CT-ND	.63	.55	.43	PCS2156TR-ND	2,000	118.00/M	ECS-T1AX156R
	22	B	X	P11310CT-ND	.71	.62	.49	P11310TR-ND	2,000	120.00/M	ECS-T1AX226R
	22	C	C	PCS2226CT-ND	1.14	.99	.78	PCS2226TR-ND	750	185.25	ECS-T1AC226R
	33	B	X	P11311CT-ND	.81	.71	.56	P11311TR-ND	2,000	153.00/M	ECS-T1AX336R
	33	D	D	PCS2336CT-ND	1.41	1.24	.98	PCS2336TR-ND	750	263.25	ECS-T1AD336R
	47	C	C	P11312CT-ND	1.23	1.08	.85	P11312TR-ND	750	197.25	ECS-T1AC476R
	47	D	D	PCS2476CT-ND	1.53	1.34	1.06	PCS2476TR-ND	750	267.75	ECS-T1AD476R
	100	D	D	P11313CT-ND	1.71	1.50	1.18	P11313TR-ND	750	315.00	ECS-T1AD107R
	150	D	D	P11314CT-ND	2.14	1.87	1.48	P11314TR-ND	750	351.00	ECS-T1AD157R
16	0.68	A	Y	PCS3684CT-ND	.43	.38	.30	PCS3684TR-ND	2,000	85.00/M	ECS-T1CY684R
	1.0	A	Y	PCS3105CT-ND	.43	.38	.30	PCS3105TR-ND	2,000	85.00/M	ECS-T1CY105R
	1.5	A	Y	PCS3155CT-ND	.43	.38	.30	PCS3155TR-ND	2,000	85.00/M	ECS-T1CY155R
	2.2	A	Y	PCS3225CT-ND	.44	.38	.30	PCS3225TR-ND	2,000	85.00/M	ECS-T1CY225R
	3.3	A	Y	PCS3335CT-ND	.48	.42	.33	PCS3335TR-ND	2,000	88.00/M	ECS-T1CY335R
	4.7	A	Y	PCS3475CT-ND	.52	.46	.36	PCS3475TR-ND	2,000	90.00/M	ECS-T1CY475R
	6.8	A	Y	P11315CT-ND	.57	.50	.39	P11315TR-ND	2,000	93.00/M	ECS-T1CY685R
	6.8	B	X	PCS3685CT-ND	.66	.58	.46	PCS3685TR-ND	2,000	110.00/M	ECS-T1CX685R
	10	B	X	PCS3106CT-ND	.63	.55	.43	PCS3106TR-ND	2,000	115.00/M	ECS-T1CX106R
	15	B	X	P11316CT-ND	.71	.62	.49	P11316TR-ND	2,000	125.00/M	ECS-T1CX156R
	15	C	C	PCS3156CT-ND	1.14	.99	.78	PCS3156TR-ND	750	185.25	ECS-T1CC156R
	22	C	C	P11317CT-ND	1.23	1.08	.85	P11317TR-ND	750	195.75	ECS-T1CC226R
	22	D	D	PCS3226CT-ND	1.41	1.24	.98	PCS3226TR-ND	750	263.25	ECS-T1CD226R
	33	C	C	P11318CT-ND	1.23	1.08	.85	P11318TR-ND	750	197.25	ECS-T1CC336R
	33	D	D	PCS3336CT-ND	1.53	1.34	1.06	PCS3336TR-ND	750	281.25	ECS-T1CD336R
	47	D	D	P11319CT-ND	1.65	1.44	1.14	P11319TR-ND	750	299.25	ECS-T1CD476R
	68	D	D	P11320CT-ND	1.71	1.50	1.18	P11320TR-ND	750	315.00	ECS-T1CD686R
20	0.68	A	Y	PCS4684CT-ND	.43	.38	.30	PCS4684TR-ND	2,000	85.00/M	ECS-T1DY684R
	1.5	A	Y	PCS4155CT-ND	.44	.38	.30	PCS4155TR-ND	2,000	85.00/M	ECS-T1DY155R
	2.2	B	X	PCS4225CT-ND	.62	.54	.43	PCS4225TR-ND	2,000	110.00/M	ECS-T1DX225R
	3.3	A	Y	P11321CT-ND	.52	.46	.36	P11321TR-ND	2,000	90.00/M	ECS-T1DY335R
	3.3	B	X	PCS4335CT-ND	.59	.51	.41	PCS4335TR-ND	2,000	110.00/M	ECS-T1DX335R
	4.7	A	Y	P11322CT-ND	.57	.50	.39	P11322TR-ND	2,000	93.00/M	ECS-T1DY475R
	4.7	B	X	PCS4475CT-ND	.61	.53	.42	PCS4475TR-ND	2,000	110.00/M	ECS-T1DX475R
	6.8	B	X	P11323CT-ND	.63	.55	.43	P11323TR-ND	2,000	115.00/M	ECS-T1DX685R
	6.8	C	C	PCS4685CT-ND	1.06	.92	.73	PCS4685TR-ND	750	171.75	ECS-T1DC685R
	10	B	X	P11324CT-ND	.71	.62	.49	P11324TR-ND	2,000	125.00/M	ECS-T1DX106R
	10	C	C	PCS4106CT-ND	1.14	.99	.78	PCS4106TR-ND	750	185.25	ECS-T1DC106R
	15	C	C	P11325CT-ND	1.23	1.08	.85	P11325TR-ND	750	195.75	ECS-T1DC156R
	15	D	D	PCS4156CT-ND	1.41	1.24	.98	PCS4156TR-ND	750	263.25	ECS-T1DD156R
	22	C	C	P11326CT-ND	1.54	1.34	1.06	P11326TR-ND	750	197.25	ECS-T1DC226R
	22	D	D	PCS4226CT-ND	1.52	1.33	1.05	PCS4226TR-ND	750	275.25	ECS-T1DD226R
	33	D	D	P11327CT-ND	1.65	1.44	1.14	P11327TR-ND	750	299.25	ECS-T1DD336R
25	0.47	A	Y	PCS5474CT-ND	.44	.38	.30	PCS5474TR-ND	2,000	85.00/M	ECS-T1EY474R
	1.0	A	Y	PCS5105CT-ND	.44	.38	.30	PCS5105TR-ND	2,000	85.00/M	ECS-T1EY105R
	1.5	A	Y	P11328CT-ND	.48	.42	.33	P11328TR-ND	2,000	88.00/M	ECS-T1EY155R
	1.5	B	X	PCS5155CT-ND	.59	.51	.41	PCS5155TR-ND	2,000	115.00/M	ECS-T1EX155R
	2.2	A	Y	P11329CT-ND	.57	.50	.39	P11329TR-ND	2,000	93.00/M	ECS-T1EY225R
	2.2	B	X	PCS5225CT-ND	.61	.53	.42	PCS5225TR-ND	2,000	115.00/M	ECS-T1EX225R
	3.3	B	X	PCS5335CT-ND	.61	.53	.42	PCS5335TR-ND	2,000	118.00/M	ECS-T1EX335R
	4.7	B	X	P11330CT-ND	.62	.54	.43	P11330TR-ND	2,000	120.00/M	ECS-T1EX475R
	4.7	C	C	PCS5475CT-ND	1.07	.94	.74	PCS5475TR-ND	750	175.50	ECS-T1EC475R
	6.8	C	C	PCS5685CT-ND	1.17	1.02	.81	PCS5685TR-ND	750	189.75	ECS-T1EC685R
	10	C	C	P11331CT-ND	1.19	1.04	.82	P11331TR-ND	750	195.75	ECS-T1EC106R
	10	D	D	PCS5106CT-ND	1.41	1.23	.97	PCS5106TR-ND	750	263.25	ECS-T1ED106R
	15	D	D	PCS5156CT-ND	1.58	1.38	1.09	PCS5156TR-ND	750	291.00	ECS-T1ED156R
	22	D	D	PCS5226CT-ND	1.62	1.41	1.12	PCS5226TR-ND	750	291.00	ECS-T1ED226R
35	.1	A	Y	PCS6104CT-ND	.45	.39	.31	PCS6104TR-ND	2,000	95.00/M	ECS-T1VY104R
	.15	A	Y	PCS6154CT-ND	.45	.39	.31	PCS6154TR-ND	2,000	95.00/M	ECS-T1VY154R
	.22	A	Y	PCS6224CT-ND	.43	.38	.30	PCS6224TR-ND	2,000	95.00/M	ECS-T1VY224R
	.33	A	Y	PCS6334CT-ND	.43	.38	.30	PCS6334TR-ND	2,000	95.00/M	ECS-T1VY334R
	.47	A	Y	PCS6474CT-ND	.43	.38	.30	PCS6474TR-ND	2,000	85.00/M	ECS-T1VY474R
	.68	A	Y	PCS6684CT-ND	.44	.38	.30	PCS6684TR-ND	2,000	85.00/M	ECS-T1VY684R
	1.0	A	Y	P11332CT-ND	.48	.42	.33	P11332TR-ND	2,000	88.00/M	ECS-T1VY105R
	1.0	B	X	PCS6105CT-ND	.59	.51	.41	PCS6105TR-ND	2,000	110.00/M	ECS-T1VX105R
	1.5	B	X	PCS6155CT-ND	.61	.53	.42	PCS6155TR-ND	2,000	110.00/M	ECS-T1VX155R
	2.2	B	X	PCS6225CT-ND	.61	.53	.42	PCS6225TR-ND	2,000	110.00/M	ECS-T1VX225R
	3.3	B	X	P11333CT-ND	.62	.54	.43	P11333TR-ND	2,000	120.00/M	ECS-T1VX335R
	3.3	C	C	PCS6335CT-ND	1.07	.94	.74	PCS6335TR-ND	750	175.50	ECS-T1VC335R
	4.7	C	C	PCS6475CT-ND	1.16	1.02	.80	PCS6475TR-ND	750	187.50	ECS-T1VC475R
	6.8	C	C	P11334CT-ND	1.19	1.04	.82	P11334TR-ND	750	195.75	ECS-T1VC685R
	6.8	D	D	PCS6685CT-ND	1.41	1.23	.97	PCS6685TR-ND	750	263.25	ECS-T1VD685R
	10	D	D	PCS6106CT-ND	1.58	1.38	1.09	PCS6106TR-ND	750	291.00	ECS-T1VD106R
	15	D	D	P11335CT-ND	1.62	1.41	1.12	P11335TR-ND	750	291.00	ECS-T1VD156R

Panasonic® TES Series

Tantalum Electrolytic Chip Capacitors

Features: • Ultra miniature sizes • Low profile 1.2mm max. height

Specifications: • **Operating Temperature Range:** -55°C to +125°C • **Rated Working Voltage Range:** 2.5 to 20VDC • **Nominal Capacitance Range:** 0.1 to 4.7 µF • **Capacitance Tolerance:** ±20% (120Hz, +20°) • **Leakage Current:** I ≤ 0.01CV or 0.5 (µA), whichever is greater measured after 2 minutes application of rated working voltage at +20°C • **tan ∂:** 0.04 max. for ≤ 3.3µF, 0.08 max. for 2.5W.V., 0.10 max. for Z size • **Characteristics at High and Low Temperature:**

-55°C	**Capacitance Change**	±12% of Initial Measured Value at +20°C
+125°C	**Leakage Current**	≤12.5 Times of Initial Specified Value
	Capacitance Change	±15% of Initial Measured Value at +20°C

Moisture Resistance: • **Test conditions — Relative humidity:** 90-95% without load • **Ambient temperature:** +40°C • **Duration:** 500 hours. **Post test requirements at +20°C:** • **Leakage current:** ≤ Initial specified value • **Capacitance change:** ±10% of initial measured value • **tan ∂:** ≤ Initial specified value • **Endurance:** Test Conditions

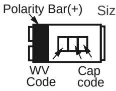
Item \ Conditions	Derating	Rating
Duration	2000 Hours	2000 Hours
Ambient Temperature	+125°C	+85°C
Applied Voltage	Derated Working Voltage	Rated Working Voltage
Source Impedance	1Ω/V	1Ω/V

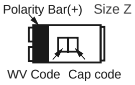
Derating voltage at +125°C

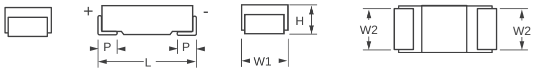
Working Voltage [V] DC	4	6.3	10	16	20
Derating Voltage [V] DC	2.5	4	6.3	10	13

Post Test Requirements at +20°C: • **Leakage Current:** ≤125% of initial specified value • **Capacitance Change:** ±10% of initial measured value • **tan ∂:** ≤ Initial specified value

• **Shelf Life:** Test conditions: — Duration 2000 hours, Ambient Temperature +125°C, No applied voltage. Post test requirements at +20°C, same limits for "Endurance" • **Solder Heat Resistance:** The capacitor shall withstand dipping into solder bath for 5 ± 1 seconds at 260 ± 5°C.







Size Code	L ± 0.2	W1 ± 0.2	H max.	P	W2 ± 0.1
Z	2.0	1.25	1.2	0.5 ± 0.2	0.9
P	3.2	1.6	1.2	0.8 ± 0.3	1.2

W.V. (D.C.)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing		Panasonic Part No.
				10	100	500		3,000	6,000	
4	2.2	Z	PCS0255CCT-ND	.72	.63	.50	PCS0255CTR-ND	130.00/M	123.00/M	ECS-T0GZ225R
	2.2	P	PCS0255BCT-ND	.74	.65	.51	PCS0255BTR-ND	292.00/M	275.00/M	ECS-T0GP225R
	3.3	P	PCS0335BCT-ND	.74	.65	.51	PCS0335BTR-ND	292.00/M	275.00/M	ECS-T0GP335R
	22	Z	P11336CT-ND	.80	.70	.55	P11336TR-ND	315.00/M	297.00/M	ECS-T0GZ226R
6.3	1.5	Z	PCS1155CCT-ND	.72	.63	.50	PCS1155CTR-ND	130.00/M	123.00/M	ECS-T0JZ155R
	1.5	P	PCS1155BCT-ND	.74	.65	.51	—	—	—	ECS-T0JP155R
	2.2	P	PCS1225BCT-ND	.74	.65	.51	PCS1225BTR-ND	292.00/M	275.00/M	ECS-T0JP225R
	10	Z	P11337CT-ND	.77	.68	.54	P11337TR-ND	304.00/M	287.00/M	ECS-T0JZ106R
10	1.0	Z	PCS2105CCT-ND	.72	.63	.50	PCS2105CTR-ND	130.00/M	123.00/M	ECS-T1AZ105R
	1.5	P	PCS2155BCT-ND	.74	.65	.51	—	—	—	ECS-T1AP155R
	2.2	Z	P11338CT-ND	.71	.62	.49	P11338TR-ND	277.00/M	261.00/M	ECS-T1AZ225R
	3.3	Z	P11339CT-ND	.73	.64	.50	P11339TR-ND	285.00/M	269.00/M	ECS-T1AZ335R
	4.7	Z	P11340CT-ND	.75	.66	.52	P11340TR-ND	296.00/M	279.00/M	ECS-T1AZ475R
16	0.68	P	PCS3684BCT-ND	.74	.65	.51	PCS3684BTR-ND	292.00/M	275.00/M	ECS-T1CP684R
	0.68	Z	PCS3684CCT-ND	.72	.63	.50	PCS3684CTR-ND	135.00/M	127.00/M	ECS-T1CZ684R
	1.0	P	PCS3105BCT-ND	.84	.74	.58	PCS3105BTR-ND	331.00/M	313.00/M	ECS-T1CP105R
	1.0	Z	P11341CT-ND	.35	.31	.25	P11341TR-ND	138.00/M	130.00/M	ECS-T1CZ105R
20	0.10	P	PCS4104BCT-ND	.74	.65	.51	—	—	—	ECS-T1DP104R
	0.15	P	PCS4154BCT-ND	.74	.65	.51	PCS4154BTR-ND	292.00/M	275.00/M	ECS-T1DP154R
	0.33	P	PCS4334BCT-ND	.74	.65	.51	PCS4334BTR-ND	292.00/M	275.00/M	ECS-T1DP334R
	0.47	P	PCS4474BCT-ND	.74	.65	.51	—	—	—	ECS-T1DP474R
	0.68	P	PCS4684BCT-ND	.74	.65	.51	—	—	—	ECS-T1DP684R

TEL Series

Features: • Low ESR

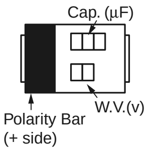
Specifications: • **Category Temperature Range:** -55°C to + 125°C • **Capacitance Tolerance:** ± 20% (120Hz/+20°C) • **DC Leakage Current:** 1<0.01CV or 0.5(µA) after 2 minutes application of rated working voltage at 20°C. (Whichever is the greater) • **Resistance to Soldering Heat:** The capacitor shall withstand dipping into solder for 5±1 seconds at +260±5°C

Moisture Resistance: After 500 hours exposure at +40°C and 90 to 95% R.H. without load, the capacitor shall meet the following limits.

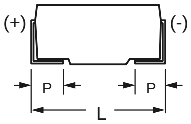
Capacitance Change	± 10% of the Initial Measured Value
D.F.	< Initial Specified Value
DC Leakage Current	< Initial Specified Value

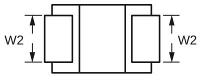
Endurance: After 2000 hours application of rated DC working voltage at + 85°C or derated voltage at +125°C, the capacitor shall meet the following limits.

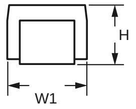
Capacitance Change	± 10% of the Initial Measured Value
D.F.	< Initial Specified Value
DC Leakage Current	< 125% of Initial Specified Value



(for 6.3W.V. abbreviated to 6V)







EIA Code	Size Code	L±0.2	W1±0.2	W2±0.1	H±0.2	P±0.3
6032	C	6.0	3.2	2.2	2.5	1.3
7343	D	7.3	4.3	2.4	2.8	1.3

W.V. (D.C.)	Cap. (µF)	Size Code	D.F. (120Hz) (+20° C)	L.C. (µA)	ESR (100kHz) (ohms)	Ripple Cur. (100kHz) (+20°C) (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing		Panasonic Part No.
								10	100	500		750	1,500	
6.3	100	C	0.08	6.3	0.3	606	P11284CT-ND	1.20	1.05	.83	P11284TR-ND	376.50	487.00/M	EEJ-L0JC107R
	150	D	0.08	9.5	0.1	1225	P11285CT-ND	1.69	1.48	1.17	P11285TR-ND	531.00	686.00/M	EEJ-L0JD157R
	220	D	0.12	13.9	0.1	1225	P11286CT-ND	1.89	1.65	1.30	P11286TR-ND	592.50	766.00/M	EEJ-L0JD227R
10	47	C	0.06	4.7	0.4	524	P11287CT-ND	1.06	.93	.73	P11287TR-ND	333.00	430.00/M	EEJ-L1AC476R
	100	D	0.08	10	0.1	1225	P11288CT-ND	1.69	1.48	1.17	P11288TR-ND	531.00	686.00/M	EEJ-L1AD107R
	150	D	0.10	15	0.1	1225	P11289CT-ND	1.89	1.65	1.30	P11289TR-ND	592.50	766.00/M	EEJ-L1AD157R
16	33	C	0.06	5.3	0.4	524	P11290CT-ND	1.06	.93	.73	P11290TR-ND	333.00	430.00/M	EEJ-L1CC336R
	47	D	0.06	7.6	0.15	1000	P11291CT-ND	1.61	1.41	1.11	P11291TR-ND	505.50	653.00/M	EEJ-L1CD476R
20	10	C	0.06	2	0.45	494	P11292CT-ND	1.00	.88	.69	P11292TR-ND	313.50	405.00/M	EEJ-L1DC106R
	15	D	0.06	3	0.45	494	P11293CT-ND	1.05	.92	.72	P11293TR-ND	328.50	425.00/M	EEJ-L1DC156R
	33	D	0.06	6.6	0.2	866	P11294CT-ND	1.61	1.41	1.11	P11294TR-ND	505.50	653.00/M	EEJ-L1DD336R
25	10	C	0.06	2.5	0.45	494	P11295CT-ND	1.05	.92	.72	P11295TR-ND	328.50	425.00/M	EEJ-L1EC106R
	15	D	0.06	3.8	0.25	775	P11296CT-ND	1.56	1.37	1.08	P11296TR-ND	489.75	633.00/M	EEJ-L1ED156R
	22	D	0.06	5.5	0.2	866	P11297CT-ND	1.56	1.37	1.08	P11297TR-ND	489.75	633.00/M	EEJ-L1ED226R
	33	D	0.08	8.3	0.2	866	P11298CT-ND	1.69	1.48	1.17	P11298TR-ND	531.00	686.00/M	EEJ-L1ED336R
35	6.8	C	0.06	2.4	0.6	428	P11299CT-ND	1.05	.92	.72	P11299TR-ND	328.50	425.00/M	EEJ-L1VC685R
	10	D	0.06	3.5	0.3	707	P11300CT-ND	1.56	1.37	1.08	P11300TR-ND	489.75	633.00/M	EEJ-L1VD106R
	15	D	0.06	5.3	0.3	707	P11301CT-ND	1.56	1.37	1.08	P11301TR-ND	489.75	633.00/M	EEJ-L1VD156R
	22	D	0.08	7.7	0.3	866	P11302CT-ND	1.69	1.48	1.17	P11302TR-ND	531.00	686.00/M	EEJ-L1VD226R

Panasonic® TEH Series

Resin Molded Chip Tantalum Electrolytic Capacitors

Specifications

- **Operating temperature range:** -55 to + 125°C
- **Rated working voltage range:** 6.3 ~ 35V
- **Rated capacitance range:** .1µF ~ 68µF
- **Capacitance tolerance:** ±20% at 120Hz, +20°C
- **DC leakage current:** I = 0.01CV or 0.5µA max. whichever is greater. DC leakage current shall be measured after 2 minutes application or rated working voltage at +20°C.
- **tan ∂:** less than 3.3µF — 0.04 max.; 4.7 ~ 68µF — 0.06 max.
- **Stability at low and high temperature:**

	–55°C	+125°C
Cap. change	±12% max.	±15% max.
DC leakage current	0.1CV or 5µA whichever is greater.	

- **Surge voltage test:**

Rated VDC	6.3	10	16	25	35
Surge VDC	8	13	20	30	44

Capacitor shall withstand the surge test voltage applied through a 1000 ohm resistor at the rate of 1/2 minute "ON," 5-1/2 minutes "OFF," for 1000 successive test cycles at +85°C. After the test, capacitor shall meet the following limits.

Cap. change	Within ±5% of the initial measured value.
DC leakage current	Less than initial specified value.
tan δ	Less than initial specified value.

- **Humidity test:**

Capacitor shall be tested for 500 hours at –40°C and 90–95% R.H. without load. After the test, capacitor shall meet the following limits.

Cap. change	Within ±10% of the initial measured value.
DC leakage current	Less than initial specified value.
tan δ	Less than initial specified value.

- **Load life test:**

After 2000 hours application of DC rated working voltage at +85°C, or derated voltage at +125°C, the capacitor shall meet the following limits.

W.V.	Derated voltage
6.3	4
10	6.3
16	10
25	16
35	22

Cap. change	Within ±10% of the initial measured value.
DC leakage current	Less than 125% of the initial specified value.
tan δ	Less than initial specified value.

- **Reverse voltage.**

Reverse voltage shall be less than 5% of the rated working voltage or 1 volt, whichever is smaller.

Rated working voltage	Reverse voltage
6.3 V	–0.32 max.
10 V	–0.50 max.
16 V	–0.80 max.
20 V	–1.00 max.
25 V	–1.00 max.
35 V	–1.00 max.

Test condition
Temperature: 85 ±2°C
Charging voltage: DC voltage as shown above.
Test time: 500 ±12 hours through the resistance or more than 3 times of charging voltage.
(Example: 1V — more than 3Ω)
After this test, capacitor shall meet the value after load life test.

- **Cleaning Solvents:**

The organic solvents such as Freon, 1,1,1-Trichlorethane are acceptable for 5 minutes cleaning. However, Acid and Alkaline solvents shall not be used.

- **Solder heat resistance:**

The capacitor shall withstand dipping into solder bath for 5 ±1 sec at 260 ±5°C.

- **Solderability:**

Lead tabs shall be uniformly covered with solder uniformity on the following conditions.

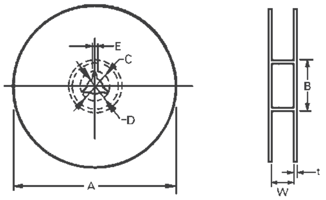
Solder bath temp ....230 ± 5°C
Solder dipping time ....2 ±0.5 sec. after dipping flux.

- **Maximum pressure:**

When the capacitor is taken and mounted by the mounting machine, pressure given to the capacitor shall not exceed 500g at 1.5mm (0.059 inch) diameter of the tip.

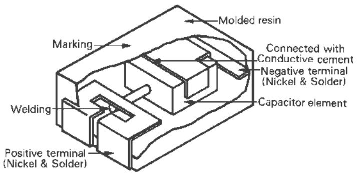
PANASONIC TE CROSS REFERENCES

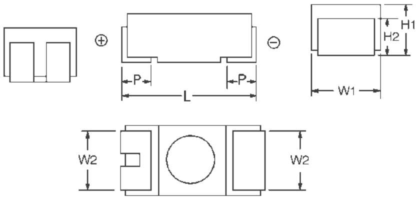
Sprague: 293D; **Kemet:** T491; **Mepco:** 49MC; **NEC:** SV; **Nichicon:** F93; **Hitachi:** TMC; **Matsuo:** 267.



Dimensions (mm)

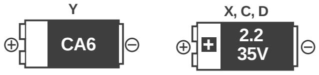
	ϕA ±2	ϕB Min.	C ±0.5	D ±0.8	E ±0.5	W ±1.5	t ±0.5
12mm tape	178	50	13.0	21.0	2.0	14.0	2.0
8mm tape	178	50	13.0	21.0	2.0	10.0	2.0

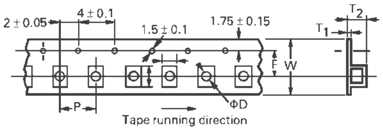

Molded resin
Marking
Connected with Conductive cement
Negative terminal (Nickel & Solder)
Capacitor element
Welding
Positive terminal (Nickel & Solder)



Dimensions (mm)

EIA Size	Size Code	L ±0.2	W_1 ±0.2	W_2 ±0.1	H_1 ±0.2	H_2 Typ.	P ±0.3
A	Y	3.2	1.6	1.2	1.6	1.0	0.8
B	X	3.5	2.8	2.2	1.9	1.2	0.8
C	C	6.0	3.2	2.2	2.5	1.5	1.3
D	D	7.3	4.3	2.4	2.8	1.6	1.3





Dimensions (mm)

Size Code	W ±0.3	A ±0.2	B ±0.2	P ±0.1	T_1 ±0.2	F ±0.1	T_2	ϕD ±0.1
Y	8.0	1.9	3.5	4.0	1.9	3.5	0.2	1.1
X		3.3	3.8	4.0	2.1			
C	12.0	3.7	6.4	8.0	3.0	5.5	0.3	1.6
D		4.7	7.7	8.0	3.3			

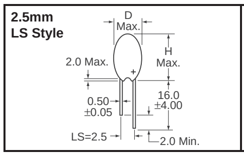
Packing Quantity	
Size Y, X	2,000 pieces/reel
Size C, D	750 pieces/reel

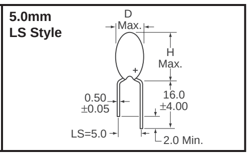
W.V. (D.C.)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape & Reel Pricing					Panasonic Part No.
					10	100		750	1,500	2,000	4,000	6,000	
6.3	3.3	A	Y	PCT1335CT-ND	4.70	41.04	PCT1335TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H0JY335R
	6.8	B	X	PCT1685CT-ND	6.31	55.10	PCT1685TR-ND	—	—	115.00/M	110.00/M	109.00/M	ECS-H0JX685R
	15	C	C	PCT1156CT-ND	11.09	96.90	PCT1156TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H0JC156R
	22	C	C	PCT1226CT-ND	11.66	101.84	PCT1226TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H0JC226R
	47	D	D	PCT1476CT-ND	15.36	134.14	PCT1476TR-ND	277.50	358.00/M	—	—	328.00/M	ECS-H0JD476R
	68	D	D	PCT1686CT-ND	17.01	148.58	PCT1686TR-ND	309.00	400.00/M	—	—	366.00/M	ECS-H0JD686R
10	2.2	A	Y	PCT2225CT-ND	4.70	41.04	PCT2225TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1AY225R
	4.7	B	X	PCT2475CT-ND	6.31	55.10	PCT2475TR-ND	—	—	115.00/M	110.00/M	109.00/M	ECS-H1AX475R
	10	C	C	PCT2106CT-ND	11.09	96.90	PCT2106TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1AC106R
	15	C	C	PCT2156CT-ND	11.66	101.84	PCT2156TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1AC156R
	33	D	D	PCT2336CT-ND	15.36	134.14	PCT2336TR-ND	277.50	358.00/M	—	—	328.00/M	ECS-H1AD336R
	47	D	D	PCT2476CT-ND	16.79	146.68	PCT2476TR-ND	295.50	382.00/M	—	—	349.00/M	ECS-H1AD476R
16	0.68	A	Y	PCT3684CT-ND	4.70	41.04	PCT3684TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1CY684R
	1.0	A	Y	PCT3105CT-ND	4.70	41.04	PCT3105TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1CY105R
	1.5	A	Y	PCT3155CT-ND	4.70	41.04	PCT3155TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1CY155R
	2.2	B	X	PCT3225CT-ND	6.31	55.10	PCT3225TR-ND	—	—	115.00/M	110.00/M	109.00/M	ECS-H1CX225R
	3.3	B	X	PCT3335CT-ND	6.39	55.86	PCT3335TR-ND	—	—	115.00/M	110.00/M	109.00/M	ECS-H1CX335R
	4.7	C	C	PCT3475CT-ND	11.35	99.18	PCT3475TR-ND	357.00	462.00/M	—	—	423.00/M	ECS-H1CC475R
	6.8	C	C	PCT3685CT-ND	11.09	96.90	PCT3685TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1CC685R
	10	C	C	PCT3106CT-ND	11.66	101.84	PCT3106TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1CC106R
	22	D	D	PCT3226CT-ND	15.36	134.14	PCT3226TR-ND	277.50	358.00/M	—	—	328.00/M	ECS-H1CD226R
	33	D	D	PCT3336CT-ND	16.79	146.68	PCT3336TR-ND	309.00	400.00/M	—	—	366.00/M	ECS-H1CD336R
20	0.68	A	Y	PCT4684CT-ND	4.70	41.04	PCT4684TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1DY684R
	2.2	B	X	PCT4225CT-ND	6.31	55.10	PCT4225TR-ND	—	—	115.00/M	110.00/M	109.00/M	ECS-H1DX225R
	4.7	C	C	PCT4475CT-ND	11.09	96.90	PCT4475TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1DC475R
	6.8	C	C	PCT4685CT-ND	11.66	101.84	PCT4685TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1DC685R
	15	D	D	PCT4156CT-ND	15.36	134.14	PCT4156TR-ND	277.50	358.00/M	—	—	328.00/M	ECS-H1DD156R
25	0.47	A	Y	PCT5474CT-ND	4.79	41.80	PCT5474TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1EY474R
	1.5	B	X	PCT5155CT-ND	6.39	55.86	PCT5155TR-ND	—	—	123.00/M	117.00/M	116.00/M	ECS-H1EX155R
	3.3	C	C	PCT5335CT-ND	9.40	82.08	PCT5335TR-ND	193.50	250.00/M	—	—	229.00/M	ECS-H1EC335R
	10	D	D	PCT5106CT-ND	15.36	134.14	PCT5106TR-ND	275.25	356.00/M	—	—	326.00/M	ECS-H1ED106R
35	.1	A	Y	PCT6104CT-ND	4.96	43.32	PCT6104TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1VY104R
	.15	A	Y	PCT6154CT-ND	4.96	43.32	PCT6154TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1VY154R
	.22	A	Y	PCT6224CT-ND	4.70	41.04	PCT6224TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1VY224R
	.33	A	Y	PCT6334CT-ND	4.70	41.04	PCT6334TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1VY334R
	.47	B	X	PCT6474CT-ND	6.79	59.28	PCT6474TR-ND	—	—	123.00/M	117.00/M	116.00/M	ECS-H1VX474R
	0.68	B	X	PCT6684CT-ND	6.79	59.28	PCT6684TR-ND	—	—	123.00/M	117.00/M	116.00/M	ECS-H1VX684R
	1.0	B	X	PCT6105CT-ND	6.39	55.86	PCT6105TR-ND	—	—	123.00/M	117.00/M	116.00/M	ECS-H1VX105R
	1.5	C	C	PCT6155CT-ND	11.01	96.14	PCT6155TR-ND	193.50	250.00/M	—	—	229.00/M	ECS-H1VC155R
	2.2	C	C	PCT6225CT-ND	11.22	98.04	PCT6225TR-ND	193.50	250.00/M	—	—	229.00/M	ECS-H1VC225R
	3.3	D	D	PCT6335CT-ND	13.53	118.18	PCT6335TR-ND	275.25	356.00/M	—	—	326.00/M	ECS-H1VD335R
	4.7	D	D	PCT6475CT-ND	13.79	120.46	PCT6475TR-ND	275.25	356.00/M	—	—	326.00/M	ECS-H1VD475R
	6.8	D	D	PCT6685CT-ND	15.36	134.14	PCT6685TR-ND	275.25	356.00/M	—	—	326.00/M	ECS-H1VD685R

NEW! AVX TAP Series Dipped Radial Capacitors

TAP is a professional grade device manufactured with a flame retardant coating and featuring low leakage current and impedance, very small physical sizes and exceptional temperature stability.

- **Capacitance Tolerance:** 10%
- **Temperature Range:** -55°C to +125°C





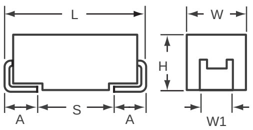
Cap. (µF)	Dimensions (mm) D	Dimensions (mm) H	Dimensions (mm) LS	DF % Max.	DCL (µA) Max.	ESR Max. (Ω)@ 100kHz	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	AVX Part No.
6.3 Volt @ 85°C (4 Volt @ 125°C)											
3.3	4.50	7.00	2.5	6	0.5	13.0	478-1885-ND	.46	.40	.32	TAP335K006SCS
4.7	4.50	7.00	2.5	6	0.5	10.0	478-1902-ND	.46	.40	.32	TAP475K006SCS
6.8	4.50	7.00	2.5	6	0.5	8.0	478-1917-ND	.46	.40	.32	TAP685K006SCS
10	4.50	7.50	2.5	8	0.5	6.0	478-1837-ND	.58	.50	.39	TAP106K006SCS
15	5.00	8.50	2.5	8	0.8	5.0	478-1855-ND	.65	.56	.44	TAP156K006SCS
22	5.00	9.00	2.5	8	1.1	3.7	478-1873-ND	.65	.56	.44	TAP226K006SCS
33	5.50	9.00	2.5	8	1.7	3.0	478-1892-ND	.93	.80	.63	TAP336K006SCS
47	6.00	10.00	2.5	8	2.4	2.0	478-1909-ND	.91	.78	.62	TAP476K006SCS
68	6.50	10.00	2.5	8	3.4	1.8	478-1924-ND	1.09	.93	.73	TAP686K006SCS
100	7.00	10.5	2.5	10	5.0	1.6	478-1844-ND	2.59	2.22	1.74	TAP107K006SCS
150	8.50	12.5	5.0	10	7.6	0.9	478-1862-ND	3.26	2.79	2.19	TAP157K006CCS
220	9.00	13.0	5.0	10	11.0	0.9	478-1880-ND	6.51	5.58	4.38	TAP227K006CCS
330	10.0	17.0	5.0	10	16.6	0.7	478-1898-ND	8.12	6.96	5.46	TAP337K006CCS
10 Volt @ 85°C (6.3 Volt @ 125°C)											
2.2	4.50	7.00	2.5	6	0.5	13.0	478-1867-ND	.46	.40	.32	TAP225K010SCS
3.3	4.50	7.00	2.5	6	0.5	10.0	478-1886-ND	.46	.40	.32	TAP335K010SCS
4.7	4.50	7.00	2.5	6	0.5	8.0	478-1903-ND	.46	.40	.32	TAP475K010SCS
6.8	4.50	7.50	2.5	6	0.5	6.0	478-1918-ND	.58	.50	.39	TAP685K010SCS
10	5.00	8.50	2.5	8	0.8	5.0	478-1838-ND	.65	.56	.44	TAP106K010SCS
15	5.00	9.00	2.5	8	1.2	3.7	478-1856-ND	.65	.56	.44	TAP156K010SCS
22	5.50	9.00	2.5	8	1.7	2.7	478-1874-ND	.93	.80	.63	TAP226K010SCS
33	6.00	10.0	2.5	8	2.6	2.1	478-1893-ND	.95	.81	.64	TAP336K010SCS
47	6.50	10.0	2.5	8	3.7	1.7	478-1910-ND	1.79	1.53	1.20	TAP476K010SCS
68	7.00	10.5	2.5	8	5.4	1.3	478-1925-ND	2.59	2.22	1.74	TAP686K010SCS
100	8.50	12.5	2.5	10	8.0	1.0	478-1845-ND	3.26	2.79	2.19	TAP107K010SCS
150	9.00	16.0	5.0	10	12.0	0.8	478-1863-ND	6.51	5.58	4.38	TAP157K010CCS
220	10.0	17.0	5.0	10	17.6	0.6	478-1881-ND	8.12	6.96	5.46	TAP227K010CCS
330	10.0	18.5	5.0	10	20.0	0.5	478-1899-ND	8.12	6.96	5.46	TAP337K010CCS
16 Volt @ 85°C (10 Volt @ 125°C)											
1.5	4.50	7.00	2.5	4	0.5	10.0	478-1850-ND	.46	.40	.32	TAP155K016SCS
2.2	4.50	7.00	2.5	6	0.5	8.0	478-1868-ND	.46	.40	.32	TAP225K016SCS
3.3	4.50	7.00	2.5	6	0.5	6.0	478-1887-ND	.46	.40	.32	TAP335K016SCS
4.7	4.50	7.50	2.5	6	0.6	5.0	478-1904-ND	.58	.50	.39	TAP475K016SCS
6.8	5.00	8.50	2.5	6	0.8	4.0	478-1919-ND	.65	.56	.44	TAP685K016SCS
10	5.00	9.00	5.0	8	1.2	3.2	478-1839-ND	.70	.60	.47	TAP106K016CCS
15	5.50	9.00	2.5	8	1.9	2.5	478-1857-ND	.93	.80	.63	TAP156K016SCS
22	6.00	10.0	2.5	8	2.8	2.0	478-1875-ND	.93	.80	.63	TAP226K016SCS
33	6.00	10.0	2.5	8	4.2	1.6	478-1894-ND	1.75	1.50	1.18	TAP336K016SCS
47	8.00	11.5	2.5	8	6.0	1.3	478-1911-ND	2.75	2.36	1.85	TAP476K016SCS
68	9.00	12.5	2.5	8	8.7	1.0	478-1926-ND	3.33	2.85	2.24	TAP686K016SCS
100	9.00	16.0	5.0	10	12.8	0.8	478-1846-ND	7.00	6.00	4.70	TAP107K016CCS
150	9.00	16.0	5.0	10	19.2	0.6	478-1864-ND	8.05	6.90	5.41	TAP157K016CCS
220	10.0	18.5	5.0	10	20.0	0.5	478-1882-ND	9.91	8.49	6.66	TAP227K016CCS
20 Volt @ 85°C (13 Volt @ 125°C)											
1.0	4.50	7.00	2.5	4	0.5	10.0	478-1833-ND	.46	.40	.32	TAP105K020SCS
1.5	4.50	7.00	2.5	4	0.5	9.0	478-1851-ND	.46	.40	.32	TAP155K020SCS
2.2	4.50	7.00	2.5	6	0.5	7.0	478-1869-ND	.46	.40	.32	TAP225K020SCS
3.3	4.50	7.50	2.5	6	0.5	5.5	478-1888-ND	.58	.50	.39	TAP335K020SCS
4.7	5.00	8.50	2.5	6	0.7	4.5	478-1905-ND	.65	.56	.44	TAP475K020SCS
6.8	5.00	9.00	2.5	6	1.0	3.6	478-1920-ND	.65	.56	.44	TAP685K020SCS
10	5.50	9.00	2.5	8	1.6	2.9	478-1840-ND	.88	.75	.59	TAP106K020SCS
15	6.00	10.0	2.5	8	2.4	2.3	478-1858-ND	.95	.81	.64	TAP156K020SCS
20 Volt @ 85°C (13 Volt @ 125°C) (Cont.)											
22	7.00	10.5	2.5	8	3.5	1.8	478-1876-ND	1.75	1.50	1.18	TAP226K020SCS
33	8.00	11.5	2.5	8	5.2	1.4	478-1895-ND	2.52	2.16	1.70	TAP336K020SCS
47	8.50	12.5	2.5	8	7.5	1.2	478-1912-ND	3.12	2.67	2.10	TAP476K020SCS
68	9.00	16.0	5.0	8	10.8	0.9	478-1927-ND	7.07	6.06	4.75	TAP686K020CCS
100	9.00	16.0	5.0	10	16.0	0.6	478-1847-ND	8.09	6.93	5.43	TAP107K020CCS
25 Volt @ 85°C (16 Volt @ 125°C)											
1.0	4.50	7.00	2.5	4	0.5	10.0	478-1834-ND	.46	.40	.32	TAP105K025SCS
1.5	4.50	7.00	2.5	4	0.5	8.0	478-1852-ND	.46	.40	.32	TAP155K025SCS
2.2	4.50	7.00	2.5	6	0.5	6.0	478-1870-ND	.46	.40	.32	TAP225K025SCS
3.3	4.50	7.50	2.5	6	0.6	5.0	478-1889-ND	.58	.50	.39	TAP335K025SCS
4.7	5.00	8.50	2.5	6	0.9	4.0	478-1906-ND	.65	.56	.44	TAP475K025SCS
6.8	5.00	9.00	2.5	6	1.3	3.1	478-1921-ND	.65	.56	.44	TAP685K025SCS
10	5.50	9.00	2.5	8	2.0	2.5	478-1841-ND	.93	.80	.63	TAP106K025SCS
15	6.00	10.00	2.5	8	3.0	2.0	478-1859-ND	1.98	1.70	1.33	TAP156K025SCS
22	7.00	10.5	2.5	8	4.4	1.5	478-1877-ND	2.59	2.22	1.74	TAP226K025SCS
33	8.00	11.5	2.5	8	6.6	1.2	478-1896-ND	3.27	2.81	2.20	TAP336K025SCS
47	9.00	13.0	2.5	8	9.4	1.0	478-1913-ND	5.01	4.29	3.37	TAP476K025SCS
68	9.00	16.0	5.0	8	13.6	0.8	478-1928-ND	8.12	6.96	5.46	TAP686K025CCS
35 Volt @ 85°C (23 Volt @ 125°C)											
0.1	4.50	7.00	2.5	4	0.5	26.0	478-1831-ND	.46	.40	.32	TAP104K035SCS
0.15	4.50	7.00	2.5	4	0.5	21.0	478-1848-ND	.46	.40	.32	TAP154K035SCS
0.22	4.50	7.00	2.5	4	0.5	17.0	478-1865-ND	.46	.40	.32	TAP224K035SCS
0.33	4.50	7.00	2.5	4	0.5	15.0	478-1883-ND	.46	.40	.32	TAP334K035SCS
0.47	4.50	7.00	2.5	4	0.5	13.0	478-1900-ND	.46	.40	.32	TAP474K035SCS
0.68	4.50	7.00	2.5	4	0.5	10.0	478-1915-ND	.46	.40	.32	TAP684K035SCS
1.0	4.50	7.00	2.5	4	0.5	8.0	478-1835-ND	.46	.40	.32	TAP105K035SCS
1.5	4.50	7.00	2.5	4	0.5	6.0	478-1853-ND	.46	.40	.32	TAP155K035SCS
2.2	4.50	7.50	2.5	6	0.6	5.0	478-1871-ND	.58	.50	.39	TAP225K035SCS
3.3	5.00	8.50	2.5	6	0.9	4.0	478-1890-ND	.65	.56	.44	TAP335K035SCS
4.7	5.50	9.00	2.5	6	1.3	3.0	478-1907-ND	.93	.80	.63	TAP475K035SCS
6.8	6.00	10.0	2.5	6	1.9	2.5	478-1922-ND	.89	.77	.60	TAP685K035SCS
10	6.00	10.0	2.5	8	2.8	2.0	478-1842-ND	1.49	1.28	1.00	TAP106K035SCS
15	7.00	10.5	2.5	8	4.2	1.6	478-1860-ND	3.12	2.67	2.10	TAP156K035SCS
22	8.50	12.5	2.5	8	6.1	1.3	478-1878-ND	3.12	2.67	2.10	TAP226K035SCS
33	9.00	13.0	5.0	8	9.2	1.0	478-1897-ND	5.43	4.65	3.65	TAP336K035CCS
47	9.00	16.0	5.0	8	10.0	0.8	478-1914-ND	8.12	6.96	5.46	TAP476K035CCS
50 Volt @ 85°C (33 Volt @ 125°C)											
0.1	4.50	7.00	2.5	4	0.5	26.0	478-1832-ND	.52	.45	.35	TAP104K050SCS
0.15	4.50	7.00	2.5	4	0.5	21.0	478-1849-ND	.48	.42	.33	TAP154K050SCS
0.22	4.50	7.00	2.5	4	0.5	17.0	478-1866-ND	.52	.45	.35	TAP224K050SCS
0.33	4.50	7.00	2.5	4	0.5	15.0	478-1884-ND	.52	.45	.35	TAP334K050SCS
0.47	4.50	7.00	2.5	4	0.5	13.0	478-1901-ND	.52	.45	.35	TAP474K050SCS
0.68	4.50	7.50	2.5	4	0.5	10.0	478-1916-ND	.58	.50	.39	TAP684K050SCS
1.0	5.00	8.50	2.5	4	0.5	8.0	478-1836-ND	.65	.56	.44	TAP105K050SCS
1.5	5.00	9.00	2.5	4	0.6	6.0	478-1854-ND	.88	.75	.59	TAP155K050SCS
2.2	5.50	9.00	2.5	6	0.8	3.5	478-1872-ND	.93	.80	.63	TAP225K050SCS
3.3	6.00	10.0	2.5	6	1.3	3.0	478-1891-ND	1.03	.89	.70	TAP335K050SCS
4.7	6.50	10.0	2.5	6	1.8	2.5	478-1908-ND	1.28	1.10	.86	TAP475K050SCS
6.8	7.00	10.5	2.5	6	2.7	2.0	478-1923-ND	3.01	2.58	2.03	TAP685K050SCS
10	8.00	11.5	2.5	8	4.0	1.6	478-1843-ND	5.25	4.50	3.53	TAP106K050SCS
15	8.50	12.5	5.0	8	6.0	1.2	478-1861-ND	5.78	4.95	3.88	TAP156K050CCS
22	9.00	12.5	5.0	8	8.8	1.0	478-1879-ND	9.45	8.10	6.35	TAP226K050CCS

NEW! AVX TAJ Series Standard Surface Mount Tantalum Capacitors

The TAJ standard series encompasses the sizes recognized by major OEMs throughout the world.

- **Temperature Range:** -55°C to +85°C at rated voltage and up to +125°C with voltage derating in applications utilizing recommended series resistance

Case Size	EIA Code	L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40



Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		AVX Part No.
								1	10	100		Size	Pricing	
4	33	10	A	6	1.3	3000	478-1665-1-ND	.50	.44	.38	478-1665-2-ND	2,000	170.00/M	TAJA336K004R
	47	10	A	8	1.9	2600	478-1669-1-ND	.50	.44	.38	478-1669-2-ND	2,000	170.00/M	TAJA476K004R
	100	10	B	8	4	900	478-1676-1-ND	1.15	1.01	.88	478-1676-2-ND	2,000	391.00/M	TAJB107K004R
6.3	10	10	A	6	0.6	4000	478-1653-1-ND	.41	.36	.32	478-1653-2-ND	2,000	139.00/M	TAJA106K006R
	10	20	A	6	0.6	4000	478-1656-1-ND	.41	.36	.32	478-1656-2-ND	2,000	139.00/M	TAJA106M006R
	22	10	B	6	1.4	2500	478-1681-1-ND	.55	.48	.42	478-1681-2-ND	2,000	187.00/M	TAJB226K006R
	33	10	A	8	2.1	2500	478-1666-1-ND	.63	.55	.48	478-1666-2-ND	2,000	213.00/M	TAJA336K000R
	33	20	A	8	2.1	2500	478-1667-1-ND	.63	.55	.48	478-1667-2-ND	2,000	213.00/M	TAJA336M006R
	47	10	B	6	3	2000	478-1692-1-ND	.65	.57	.50	478-1692-2-ND	2,000	221.00/M	TAJB476K006R
	68	10	B	8	4	900	478-1696-1-ND	.75	.66	.57	478-1696-2-ND	2,000	255.00/M	TAJB686K006R
	100	10	B	10	6.3	1700	478-1677-1-ND	1.25	1.09	.95	478-1677-2-ND	2,000	425.00/M	TAJB107K006R
	100	10	C	6	6.3	900	478-1703-1-ND	1.20	1.05	.92	478-1703-2-ND	500	218.50	TAJC107K006R
	150	10	C	6	9.5	1300	478-1709-1-ND	1.95	1.70	1.49	478-1709-2-ND	500	355.00	TAJC157K006R
	220	10	C	8	13.9	1200	478-1713-1-ND	2.10	1.83	1.60	478-1713-2-ND	500	382.00	TAJC227K006R
	470	10	D	12	28	400	478-1741-1-ND	3.15	2.75	2.40	478-1741-2-ND	500	573.50	TAJD477K006R
10	10	10	A	6	1	3000	478-1654-1-ND	.43	.37	.33	478-1654-2-ND	2,000	145.00/M	TAJA106K010R
	10	20	A	6	1	3000	478-1657-1-ND	.43	.37	.33	478-1657-2-ND	2,000	145.00/M	TAJA106M010R
	10	10	B	6	1	2500	478-1672-1-ND	.55	.48	.42	478-1672-2-ND	2,000	187.00/M	TAJB106K010R
	15	10	A	6	1.5	3200	478-1660-1-ND	.50	.44	.38	478-1660-2-ND	2,000	170.00/M	TAJA156K010R
	15	20	A	6	1.5	3200	478-1661-1-ND	.50	.44	.38	478-1661-2-ND	2,000	170.00/M	TAJA156M010R
	22	10	A	8	2.2	3000	478-1663-1-ND	.50	.44	.38	478-1663-2-ND	2,000	170.00/M	TAJA226K010R
	33	10	B	6	3.3	1800	478-1687-1-ND	1.15	1.01	.88	478-1687-2-ND	2,000	391.00/M	TAJB336K010R
	47	10	B	8	4.7	1000	478-1693-1-ND	.88	.77	.67	478-1693-2-ND	2,000	298.00/M	TAJB476K010R
	68	10	C	6	6.8	1300	478-1721-1-ND	1.25	1.09	.95	478-1721-2-ND	500	227.50	TAJC686K010R
	100	10	C	8	10	1200	478-1704-1-ND	1.25	1.09	.95	478-1704-2-ND	500	227.50	TAJC107K010R
	220	10	D	8	22	500	478-1731-1-ND	2.65	2.31	2.02	478-1731-2-ND	500	482.50	TAJD227K010R
	330	10	D	8	33	900	478-1736-1-ND	4.80	4.18	3.65	478-1736-2-ND	500	873.50	TAJD337K010R
	330	10	E	8	33	900	478-1748-1-ND	5.25	4.57	3.99	478-1748-2-ND	400	764.40	TAJE337K010R
	470	10	E	10	47	500	478-1749-1-ND	7.10	6.18	5.40	478-1749-2-ND	400	1033.60	TAJE477K010R
16	1	10	A	4	0.5	11000	478-1649-1-ND	.44	.39	.34	478-1649-2-ND	2,000	150.00/M	TAJA105K016R
	1	20	A	4	0.5	11000	478-1652-1-ND	.44	.39	.34	478-1652-2-ND	2,000	150.00/M	TAJA105M016R
	4.7	10	B	6	0.8	3500	478-1689-1-ND	.55	.48	.42	478-1689-2-ND	2,000	187.00/M	TAJB475K016R
	6.8	10	A	6	1.1	3500	478-1670-1-ND	.48	.42	.37	478-1670-2-ND	2,000	162.00/M	TAJA685K016R
	10	10	A	8	1.6	3000	478-1655-1-ND	.50	.44	.38	478-1655-2-ND	2,000	170.00/M	TAJA106K016R
	10	10	B	6	1.6	2800	478-1673-1-ND	.63	.55	.48	478-1673-2-ND	2,000	213.00/M	TAJB106K016R
	10	20	B	6	1.6	2800	478-1675-1-ND	.63	.55	.48	478-1675-2-ND	2,000	213.00/M	TAJB106M016R
	10	10	C	6	1.6	2000	478-1698-1-ND	.49	.43	.38	478-1698-2-ND	500	89.00	TAJC106K016R
	10	20	C	6	1.6	2000	478-1702-1-ND	.49	.43	.38	478-1702-2-ND	500	89.00	TAJC106M016R
	22	10	B	6	3.5	2300	478-1682-1-ND	.55	.48	.42	478-1682-2-ND	2,000	187.00/M	TAJB226K016R
	22	20	B	6	3.5	2300	478-1684-1-ND	.55	.48	.42	478-1684-2-ND	2,000	187.00/M	TAJB226M016R
	33	10	B	8	5..3	2100	478-1688-1-ND	.95	.83	.73	478-1688-2-ND	2,000	323.00/M	TAJB336K016R
	33	10	C	6	5.3	1500	478-1715-1-ND	.63	.55	.48	478-1715-2-ND	500	114.00	TAJC336K016R
	47	10	C	6	7.5	1400	478-1718-1-ND	1.00	.87	.76	478-1718-2-ND	500	182.00	TAJC476K016R
	47	10	D	6	7.5	900	478-1739-1-ND	.83	.72	.63	478-1739-2-ND	500	150.00	TAJD476K016R
	68	10	D	6	10.9	900	478-1744-1-ND	1.60	1.40	1.22	478-1744-2-ND	500	291.00	TAJD686K016R
	100	10	D	6	16	900	478-1723-1-ND	1.30	1.14	.99	478-1723-2-ND	500	236.50	TAJD107K016R
20	1	10	A	4	0.5	9000	478-1650-1-ND	.45	.40	.35	478-1650-2-ND	2,000	153.00/M	TAJA105K020R
	1.5	10	A	6	0.5	6500	478-1658-1-ND	.43	.37	.33	478-1658-2-ND	2,000	145.00/M	TAJA155K020R
	3.3	10	A	6	0.7	4500	478-1664-1-ND	.48	.42	.37	478-1664-2-ND	2,000	162.00/M	TAJA335K020R
	3.3	10	B	6	0.7	3000	478-1685-1-ND	.55	.48	.42	478-1685-2-ND	2,000	187.00/M	TAJB335K020R
	4.7	10	A	6	0.9	4000	478-1668-1-ND	.48	.42	.37	478-1668-2-ND	2,000	162.00/M	TAJA475K020R
	6.8	10	B	6	1.4	2500	478-1694-1-ND	.55	.48	.42	478-1694-2-ND	2,000	187.00/M	TAJB685K020R
	6.8	10	C	6	1.4	2000	478-1719-1-ND	.55	.48	.42	478-1719-2-ND	500	100.00	TAJC685K020R
	10	10	B	6	2	2100	478-1674-1-ND	.65	.57	.50	478-1674-2-ND	2,000	221.00/M	TAJB106K020R
	10	10	C	6	2	1900	478-1699-1-ND	.46	.40	.35	478-1699-2-ND	500	83.50	TAJC106K020R
	15	10	B	6	3	2000	478-1679-1-ND	.65	.57	.50	478-1679-2-ND	2,000	221.00/M	TAJB156K020R
	15	10	C	6	3	1700	478-1707-1-ND	.88	.77	.67	478-1707-2-ND	500	159.50	TAJC156K020R
	22	10	B	6	4.4	1800	478-1683-1-ND	.63	.55	.48	478-1683-2-ND	2,000	213.00/M	TAJB226K020R
	22	10	C	6	4.4	1600	478-1711-1-ND	1.00	.87	.76	478-1711-2-ND	500	182.00	TAJC226K020R
	33	10	C	6	6.6	1500	478-1716-1-ND	1.00	.87	.76	478-1716-2-ND	500	182.00	TAJC336K020R
	33	10	D	6	6.6	900	478-1734-1-ND	.83	.72	.63	478-1734-2-ND	500	150.00	TAJD336K020R
	68	10	D	6	13.6	900	478-1745-1-ND	2.30	2.01	1.75	478-1745-2-ND	500	418.50	TAJD686K020R
	100	10	D	6	20	900	478-1724-1-ND	3.25	2.83	2.47	478-1724-2-ND	500	591.50	TAJD107K020R
	100	10	E	6	20	900	478-1746-1-ND	3.08	2.68	2.34	478-1746-2-ND	400	447.60	TAJE107K020R
25	2.2	10	A	6	0.6	7000	478-1662-1-ND	.48	.42	.37	478-1662-2-ND	2,000	162.00/M	TAJA225K025R
	4.7	10	B	6	1.2	2800	478-1690-1-ND	.55	.48	.42	478-1690-2-ND	2,000	187.00/M	TAJB475K025R
	6.8	10	B	6	1.7	2800	478-1695-1-ND	.65	.57	.50	478-1695-2-ND	2,000	221.00/M	TAJB685K025R
	10	10	C	6	2.5	1800	478-1700-1-ND	.53	.46	.40	478-1700-2-ND	500	95.50	TAJC106K025R
	15	10	D	6	3.8	1000	478-1726-1-ND	.83	.72	.63	478-1726-2-ND	500	150.00	TAJD156K025R
	22	20	C	6	5.5	1400	478-1712-1-ND	1.05	.92	.80	478-1712-2-ND	500	191.00	TAJC226M025R
	22	10	D	6	5.5	900	478-1729-1-ND	.83	.72	.63	478-1729-2-ND	500	150.00	TAJD226K025R
	47	10	D	6	11.8	900	478-1740-1-ND	3.89	3.39	2.96	478-1740-2-ND	500	708.00	TAJD476K025R
	68	10	E	6	17	900	478-1750-1-ND	8.25	7.18	6.27	478-1750-2-ND	400	1201.20	TAJE686K025R
35	1	10	A	4	0.5	7500	478-1651-1-ND	.54	.47	.42	478-1651-2-ND	2,000	184.00/M	TAJA105K035R
	1	10	B	4	0.5	6500	478-1671-1-ND	.55	.48	.42	478-1671-2-ND	2,000	187.00/M	TAJB105K035R
	1.5	10	A	6	0.5	7500	478-1659-1-ND	.70	.61	.54	478-1659-2-ND	2,000	238.00/M	TAJA155K035R
	1.5	10	B	6	0.5	5200	478-1678-1-ND	.60	.53	.46	478-1678-2-ND	2,000	204.00/M	TAJB155K035R
	1.5	10	C	6	0.5	4500	478-1705-1-ND	.93	.81	.71	478-1705-2-ND	500	168.50	TAJC155K035R
	2.2	10	B	6	0.8	4200	478-1680-1-ND	.55	.48	.42	478-1680-2-ND	2,000	187.00/M	TAJB225K035R
	2.2	10	C	6	0.8	3500	478-1710-1-ND	.55	.48	.42	478-1710-2-ND	500	100.00	TAJC225K035R
	3.3	10	B	6	1.2	3500	478-1686-1-ND	.55	.48	.42	478-1686-2-ND	2,000	187.00/M	TAJB335K035R
	3.3	10	C	6	1.2	2500	478-1714-1-ND	.55	.48	.42	478-1714-2-ND	500	100.00	TAJC335K035R
	3.3	10	D	6	1.2	2500	478-1732-1-ND	.75	.66	.57	478-1732-2-ND	500	136.50	TAJD335K035R
	4.7	10	B	6	1.2	3100	478-1691-1-ND	.65	.57	.50	478-1691-2-ND	2,000	221.00/M	TAJB475K035R
	4.7	10	C	6	1.6	2200	478-1717-1-ND	.53	.46	.40	478-1717-2-ND	500	95.50	TAJC475K035R
	4.7	10	D	6	1.6	1500	478-1737-1-ND	.83	.72	.63	478-1737-2-ND	500	150.00	TAJD475K035R
	6.8	10	C	6	2.4	1800	478-1720-1-ND	.63	.55	.48	478-1720-2-ND	500	114.00	TAJC685K035R
	6.8	10	D	6	2.4	1300	478-1742-1-ND	.83	.72	.63	478-1742-2-ND	500	150.00	TAJD685K035R
	10	10	C	6	3.5	1600	478-1701-1-ND	.95	.83	.73	478-1701-2-ND	500	173.00	TAJC106K035R

(Continued)

NEW! AVX TAJ Series Standard Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AVX Part No.
35	10	10	D	6	3.5	1000	478-1722-1-ND	.88	.77	.67	478-1722-2-ND	500	159.50	TAJD106K035R
	15	10	C	6	5.3	1400	478-1708-1-ND	1.25	1.09	.95	478-1708-2-ND	500	227.50	TAJC156K035R
	15	10	D	6	5.3	900	478-1727-1-ND	1.05	.92	.80	478-1727-2-ND	500	191.00	TAJD156K035R
	22	10	D	6	7.7	900	478-1730-1-ND	1.90	1.66	1.45	478-1730-2-ND	500	346.00	TAJD226K035R
	22	10	E	6	7.7	900	478-1747-1-ND	4.25	3.70	3.23	478-1747-2-ND	400	618.80	TAJE226K035R
	33	10	D	6	11.6	900	478-1735-1-ND	2.40	2.09	1.83	478-1735-2-ND	500	437.00	TAJD336K035R
50	0.1	10	A	4	0.5	22000	478-1648-1-ND	.75	.66	.57	478-1648-2-ND	2,000	255.00/M	TAJA104K050R
	1	10	C	4	0.5	5500	478-1697-1-ND	.75	.66	.57	478-1697-2-ND	500	136.50	TAJC105K050R
	1.5	10	C	6	0.8	4500	478-1706-1-ND	2.25	1.96	1.71	478-1706-2-ND	500	409.50	TAJC155K050R
	1.5	10	D	6	0.8	4000	478-1725-1-ND	4.60	4.01	3.50	478-1725-2-ND	500	837.00	TAJD155K050R
	2.2	10	D	6	1.1	2500	478-1728-1-ND	1.43	1.24	1.09	478-1728-2-ND	500	259.50	TAJD225K050R
	3.3	10	D	6	1.7	2000	478-1733-1-ND	1.40	1.22	1.07	478-1733-2-ND	500	255.00	TAJD335K050R
	4.7	10	D	6	2.4	1400	478-1738-1-ND	1.43	1.24	1.09	478-1738-2-ND	500	259.50	TAJD475K050R
	6.8	10	D	6	3.4	1000	478-1743-1-ND	5.25	4.57	3.99	478-1743-2-ND	500	955.50	TAJD685K050R

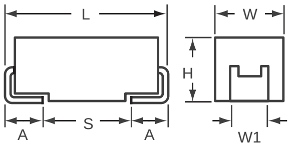
NEW! TPS Series Low ESR Surface Mount Tantalum Capacitors

TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

TPS has been designed, manufactured, and preconditioned for optimum performance in typical power supply applications.

- **Temperature Range:** -55°C to +125°C

Case Size	EIA Code	L ±0.20	W +0.20, -0.10	H Max.	W_1 ±0.20	A +0.30, -0.20	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40



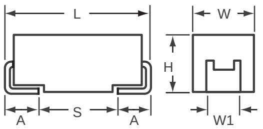
Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AVX Part No.
6.3	22	10	A	6	1.4	900	478-1754-1-ND	.75	.66	.57	478-1754-2-ND	2,000	255.00/M	TPSA226K006R0900
	33	10	A	8	2.1	600	478-1755-1-ND	1.00	.87	.76	478-1755-2-ND	2,000	340.00/M	TPSA336K006R0600
	68	20	B	8	4.3	500	478-1761-1-ND	1.20	1.05	.92	478-1761-2-ND	2,000	408.00/M	TPSB686M006R0500
	100	10	C	6	6.3	150	478-1764-1-ND	2.55	2.22	1.94	478-1764-2-ND	500	464.00	TPSC107K006R0150
	220	10	C	8	13.9	125	478-1768-1-ND	1.85	1.61	1.41	478-1768-2-ND	500	336.50	TPSC227K006R0125
	330	20	E	8	20.8	100	478-1804-1-ND	9.50	8.27	7.22	478-1804-2-ND	400	1383.20	TPSE337M006R0100
	470	20	D	12	29.6	100	478-1790-1-ND	6.95	6.05	5.29	478-1790-2-ND	500	1265.00	TPSD477M006R0100
	470	20	D	12	29.6	200	478-1791-1-ND	5.65	4.92	4.30	478-1791-2-ND	500	1028.50	TPSD477M006R0200
10	2.2	10	A	6	0.5	1800	478-1753-1-ND	.75	.66	.57	478-1753-2-ND	2,000	255.00/M	TPSA225K010R1800
	10	10	A	6	1	900	478-1751-1-ND	.70	.61	.54	478-1751-2-ND	2,000	238.00/M	TPSA106K010R0900
	15	10	A	6	1.5	1000	478-1752-1-ND	.75	.66	.57	478-1752-2-ND	2,000	255.00/M	TPSA156K010R1000
	33	10	B	6	3.3	425	478-1759-1-ND	1.20	1.05	.92	478-1759-2-ND	2,000	408.00/M	TPSB336K010R0425
	33	10	C	6	3.3	375	478-1770-1-ND	2.00	1.74	1.52	478-1770-2-ND	500	364.00	TPSC336K010R0375
	47	10	B	8	4.7	650	478-1760-1-ND	1.25	1.09	.95	478-1760-2-ND	2,000	425.00/M	TPSB476K010R0650
	100	10	C	8	10	100	478-1765-1-ND	1.88	1.64	1.43	478-1765-2-ND	500	341.50	TPSC107K010R0100
	100	10	D	6	10	65	478-1776-1-ND	3.90	3.40	2.97	478-1776-2-ND	500	710.00	TPSD107K010R0065
	100	10	D	6	10	100	478-1777-1-ND	2.35	2.05	1.79	478-1777-2-ND	500	427.50	TPSD107K010R0100
	100	20	D	6	10	100	478-1779-1-ND	2.35	2.05	1.79	478-1779-2-ND	500	427.50	TPSD107M010R0100
	150	10	D	8	15	100	478-1781-1-ND	3.60	3.14	2.74	478-1781-2-ND	500	655.00	TPSD157K010R0100
	220	10	D	8	22	150	478-1784-1-ND	6.75	5.88	5.13	478-1784-2-ND	500	1228.50	TPSD227K010R0150
	220	10	E	8	22	100	478-1799-1-ND	9.50	8.27	7.22	478-1799-2-ND	400	1383.20	TPSE227K010R0100
	330	10	D	10	33	100	478-1787-1-ND	6.85	5.96	5.21	478-1787-2-ND	500	1246.50	TPSD337K010R0100
	470	10	E	10	47	100	478-1807-1-ND	14.90	12.97	11.33	478-1807-2-ND	400	2169.60	TPSE477K010R0100
16	15	10	B	6	2.4	800	478-1757-1-ND	1.00	.87	.76	478-1757-2-ND	2,000	340.00/M	TPSB156K016R0800
	22	10	B	6	3.5	600	478-1758-1-ND	1.00	.87	.76	478-1758-2-ND	2,000	340.00/M	TPSB226K016R0600
	22	10	C	6	3.5	375	478-1767-1-ND	.88	.77	.67	478-1767-2-ND	500	159.50	TPSC226K016R0375
	33	10	C	6	5.3	300	478-1771-1-ND	2.10	1.83	1.60	478-1771-2-ND	500	382.00	TPSC336K016R0300
	47	10	C	6	7.5	350	478-1773-1-ND	2.55	2.22	1.94	478-1773-2-ND	500	464.00	TPSC476K016R0350
	47	10	D	6	7.5	150	478-1788-1-ND	3.90	3.40	2.97	478-1788-2-ND	500	710.00	TPSD476K016R0150
	68	10	C	6	10.9	200	478-1774-1-ND	1.44	1.25	1.10	478-1774-2-ND	500	261.00	TPSC686K016R0200
	100	10	D	6	16	125	478-1778-1-ND	4.20	3.66	3.20	478-1778-2-ND	500	764.50	TPSD107K016R0125
	100	10	E	6	16	100	478-1793-1-ND	9.25	8.05	7.03	478-1793-2-ND	400	1346.80	TPSE107K016R0100
	100	10	E	6	16	125	478-1794-1-ND	8.50	7.40	6.46	478-1794-2-ND	400	1237.60	TPSE107K016R0125
	150	10	D	6	24	150	478-1782-1-ND	5.00	4.35	3.80	478-1782-2-ND	500	910.00	TPSD157K016R0150
	220	10	E	10	35.2	150	478-1800-1-ND	10.00	8.70	7.60	478-1800-2-ND	400	1456.00	TPSE227K016R0150
20	10	10	B	6	2	1000	478-1756-1-ND	1.25	1.09	.95	478-1756-2-ND	2,000	425.00/M	TPSB106K020R1000
	15	10	C	6	3	450	478-1766-1-ND	2.10	1.83	1.60	478-1766-2-ND	500	382.00	TPSC156K020R0450
	33	10	D	6	6.6	200	478-1785-1-ND	3.90	3.40	2.97	478-1785-2-ND	500	710.00	TPSD336K020R0200
	47	10	E	6	9.4	125	478-1805-1-ND	7.75	6.75	5.89	478-1805-2-ND	400	1128.40	TPSE476K020R0125
	47	10	E	6	9.4	150	478-1806-1-ND	7.00	6.09	5.32	478-1806-2-ND	400	1019.20	TPSE476K020R0150
	68	10	D	6	13.6	300	478-1792-1-ND	3.65	3.18	2.78	478-1792-2-ND	500	664.50	TPSD686K020R0300
	100	10	E	6	20	150	478-1795-1-ND	5.75	5.01	4.37	478-1795-2-ND	400	837.20	TPSE107K020R0150
25	10	10	C	6	2.5	500	478-1762-1-ND	.88	.77	.67	478-1762-2-ND	500	159.50	TPSC106K025R0500
	10	20	C	6	2.5	500	478-1763-1-ND	.88	.77	.67	478-1763-2-ND	500	159.50	TPSC106M025R0500
	22	10	D	6	5.5	200	478-1783-1-ND	3.90	3.40	2.97	478-1783-2-ND	500	710.00	TPSD226K025R0200
	33	10	D	6	8.3	300	478-1786-1-ND	3.75	3.27	2.85	478-1786-2-ND	500	682.50	TPSD336K025R0300
	33	10	E	6	8.3	300	478-1801-1-ND	6.75	5.88	5.13	478-1801-2-ND	400	982.80	TPSE336K025R0300
	33	20	E	6	8.3	175	478-1802-1-ND	7.00	6.09	5.32	478-1802-2-ND	400	1019.20	TPSE336M025R0175
	33	20	E	6	8.3	200	478-1803-1-ND	6.80	5.92	5.17	478-1803-2-ND	400	990.00	TPSE336M025R0200
	47	10	D	6	11.8	150	478-1789-1-ND	6.75	5.88	5.13	478-1789-2-ND	500	1228.50	TPSD476K025R0150
35	3.3	10	C	6	1.2	700	478-1769-1-ND	1.95	1.70	1.49	478-1769-2-ND	500	355.00	TPSC335K035R0700
	4.7	10	C	6	1.6	600	478-1772-1-ND	1.95	1.70	1.49	478-1772-2-ND	500	355.00	TPSC475K035R0600
	10	10	D	6	3.5	300	478-1775-1-ND	1.43	1.24	1.09	478-1775-2-ND	500	259.50	TPSD106K035R0300
	15	10	D	6	5.3	300	478-1780-1-ND	3.90	3.40	2.97	478-1780-2-ND	500	710.00	TPSD156K035R0300
	22	10	E	6	7.7	125	478-1796-1-ND	9.75	8.49	7.41	478-1796-2-ND	400	1419.60	TPSE226K035R0125
	22	10	E	6	7.7	200	478-1797-1-ND	9.25	8.05	7.03	478-1797-2-ND	400	1346.80	TPSE226K035R0200
	33	10	E	6	11.6	300	478-1798-1-ND	8.75	7.62	6.65	478-1798-2-ND	400	1274.00	TPSE226K035R0300

NEW! AVX TPM Series Multianode Ultra Low ESR Surface Mount Tantalum Capacitors

Low ESR, high capacitance and high ripple current are the key parameters for processor filtering.
Multianode configuration within a standard E case package meets these requirements.

- **Temperature Range:** -55°C to +125°C

Case Size	EIA Code	L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S Min.
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40



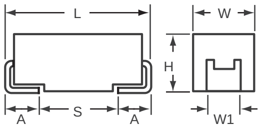
Rated Voltage (V)	Capacitance (µF)	Cap. Tol. %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
4 Volt @ 85°C (2.7 Volt @ 125°C)														
4	680	10	E	6	27	23	478-1815-1-ND	12.25	10.66	9.31	478-1815-2-ND	400	1783.60	TPME687K004R0023
	680	20	E	6	27	23	478-1816-1-ND	11.25	9.79	8.55	478-1816-2-ND	400	1638.00	TPME687M004R0023
	1000	10	E	6	40	18	478-1819-1-ND	12.50	10.88	9.50	478-1819-2-ND	400	1820.00	TPME108K004R0018
	1000	20	E	6	40	18	478-1820-1-ND	11.75	10.23	8.93	478-1820-2-ND	400	1710.80	TPME108M004R0018
6.3 Volt @ 85°C (4.2 Volt @ 125°C)														
6.3	470	10	E	6	28	30	478-1812-1-ND	10.00	8.70	7.60	478-1812-2-ND	400	1456.00	TPME477K006R0030
	470	20	E	6	28	30	478-1813-1-ND	9.75	8.49	7.41	478-1813-2-ND	400	1419.60	TPME477M006R0030
	680	10	E	6	41	23	478-1817-1-ND	12.25	10.66	9.31	478-1817-2-ND	400	1783.60	TPME687K006R0023
	680	20	E	6	41	23	478-1818-1-ND	11.25	9.79	8.55	478-1818-2-ND	400	1638.00	TPME687M006R0023
10 Volt @ 85°C (6.6 Volt @ 125°C)														
10	330	10	E	6	33	35	478-1810-1-ND	10.00	8.70	7.60	478-1810-2-ND	400	1456.00	TPME337K010R0035
	330	20	E	6	33	35	478-1811-1-ND	9.75	8.49	7.41	478-1811-2-ND	400	1419.60	TPME337M010R0035
	470	20	E	6	47	30	478-1814-1-ND	9.75	8.49	7.41	478-1814-2-ND	400	1419.60	TPME477M010R0030

NEW! OxiCap™ Niobium Oxide Capacitors

Cost versus performance is a key requirement for consumer electronic products. A solid electrolyte capacitor OxiCap™ has been developed by AVX in standard EIA case sizes in order to meet this requirement as a higher performance alternative to aluminum and other SMT capacitor technologies currently on the market.

The OxiCap™ non-burn technology is based on NbO niobium oxide ceramic material as the anodic material processed through the same manufacturing process as tantalum capacitors. The laser coded orange molded body gives total traceability.

Case Size	EIA Code	L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40



NOJ Series

- **Temperature Range:** -55°C to +105°C

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
4 Volt @ 85°C (2.7 Volt @ 105°C)														
4	100	20	C	6	8	1.3	478-1824-1-ND	.75	.66	.57	478-1824-2-ND	500	136.50	NOJC107M004R
6.3 Volt @ 85°C (4.2 Volt @ 105°C)														
6.3	10	20	A	6	1.2	4	478-1821-1-ND	.40	.35	.31	478-1821-2-ND	2,000	136.00/M	NOJA106M006R
	15	20	B	6	1.8	2.5	478-1822-1-ND	.55	.48	.42	478-1822-2-ND	2,000	187.00/M	NOJB156M006R
	22	20	B	6	2.64	2.5	478-1823-1-ND	.50	.44	.38	478-1823-2-ND	2,000	170.00/M	NOJB226M006R
	100	20	D	6	12.0	0.9	478-1825-1-ND	1.05	.92	.80	478-1825-2-ND	500	191.00	NOJD107M006R
	150	20	D	6	18.0	0.9	478-1826-1-ND	1.25	1.09	.95	478-1826-2-ND	500	227.50	NOJD157M006R
6.3	220	20	E	12	26.4	0.9	478-1827-1-ND	3.00	2.61	2.28	478-1827-2-ND	400	436.80	NOJE227M006R
	330	20	E	12	39.6	0.9	478-1828-1-ND	3.93	3.42	2.99	478-1828-2-ND	400	571.60	NOJE337M006R

NOS Low ESR Series

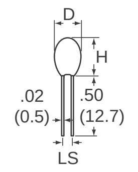
- **Temperature Range:** -55°C to +125°C

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
4 Volt @ 85°C (2.7 Volt @ 105°C)														
4	330	20	D	8	26.4	100	478-1830-1-ND	3.25	2.83	2.47	478-1830-2-ND	500	591.50	NOSD337M004R0100
6.3 Volt @ 85°C (4.2 Volt @ 105°C)														
6.3	100	20	D	6	12.6	100	478-1829-1-ND	2.35	2.05	1.79	478-1829-2-ND	500	427.50	NOSD107M006R0100

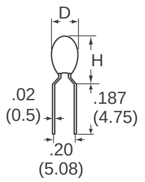
Tantalum Dipped / Radial Capacitors

T350 and T356 “UltraDip II” Series

T350 Series



T356 Series



The KEMET “UltraDip II” Series, miniature dipped solid tantalum capacitors, provide the designer with the advantage of compactness plus low leakage and low DF performance characteristics for filtering, bypassing, coupling, blocking and RC timing circuits.

The plastic case provides a tough barrier coating and maintains precision of lead wire spacing within ±0.015 inch.

All case sizes are printed with capacitance, voltage, polarity and vendor identification, these self-insulating cases are resistant to shock and vibration.

The gold color epoxy permits Laser marking with outstanding permanency and legibility.

Solid tantalum devices exhibit no degradation failure mode during shelf storage.

These capacitors exhibit low DCL, ESR and Impedance and have excellent temperature stability. *The ESR values provided are for reference only.*

Capacitance Tolerance (%): ±10

WV (DC)	Cap. (µF)	ESR @100K Hz @ +25°C	D.C.L. µA@ 25°C	Max. DF % @25°C 120Hz	Dim. (mm)			Digi-Key Part No.	Price Each			Kemet Part No.
					D	H	LS		1	10	100	
T350 Series												
6	4.7	10	0.5	5	4.5	7.1	2.54	399-1377-ND	.39	.34	.27	T350A475K006AS
	6.8	8	0.5	5	4.5	7.1	2.54	399-1378-ND	.48	.42	.33	T350A685K006AS
	10	6	0.5	6	4.5	7.6	2.54	399-1379-ND	.59	.51	.40	T350B106K006AS
	15	5	0.7	6	5.0	8.4	2.54	399-1380-ND	.66	.57	.45	T350C156K006AS
	22	3.7	1.1	6	5.0	8.6	2.54	399-1381-ND	.78	.68	.53	T350D226K006AS
	33	3	1.6	6	5.5	8.9	2.54	399-1382-ND	.83	.72	.56	T350E336K006AS
	47	2	2.3	6	6.0	9.9	2.54	399-1383-ND	.93	.80	.63	T350F476K006AS
	68	1.8	3.3	6	6.3	10.2	2.54	399-1384-ND	1.10	.95	.75	T350G686K006AS
	100	1.6	4.8	8	7.6	10.2	2.54	399-1385-ND	2.60	2.23	1.75	T350H107K006AS
	150	0.9	7.2	8	8.4	12.7	5.08	399-1386-ND	3.33	2.86	2.24	T350J157K006AS
10	2.2	13	0.5	5	4.5	7.1	2.54	399-1387-ND	.48	.42	.33	T350A225K010AS
	3.3	10	0.5	5	4.5	7.1	2.54	399-1388-ND	.48	.42	.33	T350A335K010AS
	4.7	8	0.5	5	4.5	7.1	2.54	399-1389-ND	.48	.42	.33	T350A475K010AS
	6.8	6	0.5	5	4.5	7.6	2.54	399-1390-ND	.66	.57	.45	T350B685K010AS
	10	5	0.8	6	5.0	8.4	2.54	399-1391-ND	.66	.57	.45	T350C106K010AS
	15	3.7	1.2	6	5.5	8.9	2.54	399-1392-ND	.78	.68	.53	T350E156K010AS
	22	2.7	1.8	6	5.5	8.9	2.54	399-1393-ND	.88	.76	.60	T350E226K010AS
	33	2.1	2.6	6	6.0	9.9	2.54	399-1394-ND	1.03	.89	.70	T350F336K010AS
	47	1.7	3.8	6	7.6	10.2	2.54	399-1395-ND	1.81	1.56	1.22	T350H476K010AS
	68	1.3	5.4	6	7.6	10.2	2.54	399-1396-ND	2.60	2.23	1.75	T350H686K010AS
	100	1	8.0	8	8.4	12.7	5.08	399-1397-ND	3.33	2.86	2.24	T350J107K010AS
16	1.5	10	0.5	5	4.5	7.1	2.54	399-1398-ND	.48	.42	.33	T350A155K016AS
	2.2	8	0.5	5	4.5	7.1	2.54	399-1399-ND	.48	.42	.33	T350A225K016AS
	3.3	6	0.5	5	4.5	7.1	2.54	399-1400-ND	.48	.42	.33	T350A335K016AS
	4.7	5	0.6	5	4.5	7.6	2.54	399-1401-ND	.59	.51	.40	T350B475K016AS
	6.8	4	0.9	5	5.0	8.4	2.54	399-1402-ND	.69	.59	.47	T350C685K016AS
	10	3.2	1.3	6	5.5	8.9	2.54	399-1403-ND	.71	.61	.48	T350E106K016AS
	15	2.5	1.8	6	5.5	8.9	2.54	399-1404-ND	.93	.80	.63	T350E156K016AS
	22	2	2.6	6	6.0	9.9	2.54	399-1405-ND	.93	.80	.63	T350F226K016AS
	33	1.6	4.0	6	7.6	10.2	2.54	399-1406-ND	1.81	1.56	1.22	T350H336K016AS
	47	1.3	5.6	6	8.4	12.7	5.08	399-1407-ND	2.77	2.38	1.87	T350J476K016AS
	68	1	8.2	6	8.9	13.5	5.08	399-1408-ND	3.33	2.86	2.24	T350K686K016AS
	100	0.8	10.0	8	8.9	16.0	5.08	399-1409-ND	7.14	6.12	4.80	T350L107K016AS
20	10	2.9	1.6	6	5.5	8.9	2.54	399-1410-ND	.88	.76	.60	T350E106K020AS
	100	0.6	10.0	8	10.2	17.0	5.08	399-1411-ND	8.18	7.02	5.50	T350M107K020AS
25	1.0	10	0.5	3	4.5	7.1	2.54	399-1412-ND	.48	.42	.33	T350A105K025AS
	1.5	8	0.5	5	4.5	7.1	2.54	399-1413-ND	.48	.42	.33	T350A155K025AS
	2.2	6	0.5	5	4.5	7.6	2.54	399-1414-ND	.59	.51	.40	T350B225K025AS
	3.3	5	0.7	5	4.5	7.6	2.54	399-1415-ND	.59	.51	.40	T350B335K025AS
	4.7	4	0.9	5	5.0	8.4	2.54	399-1416-ND	.71	.61	.48	T350C475K025AS
	6.8	3.1	1.4	5	5.5	8.9	2.54	399-1417-ND	.93	.80	.63	T350E685K025AS
	10	2.5	2.0	6	5.5	8.9	2.54	399-1418-ND	.93	.80	.63	T350E106K025AS
	15	2	3.0	6	6.3	10.2	2.54	399-1419-ND	2.00	1.71	1.34	T350G156K025AS
	22	1.5	4.4	6	7.6	10.2	2.54	399-1420-ND	2.60	2.23	1.75	T350H226K025AS
	33	1.2	6.6	6	8.4	12.7	5.08	399-1421-ND	3.33	2.86	2.24	T350J336K025AS
	47	1	9.4	6	8.9	13.5	5.08	399-1422-ND	5.07	4.35	3.41	T350K476K025AS
35	.10	26	0.5	3	4.5	7.1	2.54	399-1423-ND	.48	.42	.33	T350A104K035AS
	.15	21	0.5	3	4.5	7.1	2.54	399-1424-ND	.48	.42	.33	T350A154K035AS
	.22	17	0.5	3	4.5	7.1	2.54	399-1425-ND	.48	.42	.33	T350A224K035AS
	.33	15	0.5	3	4.5	7.1	2.54	399-1426-ND	.48	.42	.33	T350A334K035AS
	.47	13	0.5	3	4.5	7.1	2.54	399-1427-ND	.48	.42	.33	T350A474K035AS
	.68	10	0.5	3	4.5	7.1	2.54	399-1428-ND	.48	.42	.33	T350A684K035AS
	1.0	8	0.5	3	4.5	7.1	2.54	399-1429-ND	.48	.42	.33	T350A105K035AS
	1.5	6	0.5	5	4.5	7.6	2.54	399-1430-ND	.54	.47	.37	T350B155K035AS
	2.2	5	0.6	5	5.0	8.4	2.54	399-1431-ND	.59	.51	.40	T350C225K035AS
	3.3	4	0.9	5	5.0	8.6	2.54	399-1432-ND	.74	.63	.50	T350D335K035AS
	4.7	3	1.3	5	5.5	8.9	2.54	399-1433-ND	.78	.68	.53	T350E475K035AS
	6.8	2.5	1.9	5	6.0	9.9	2.54	399-1434-ND	.88	.76	.60	T350F685K035AS
	10	2	2.8	6	6.3	10.2	2.54	399-1435-ND	1.50	1.29	1.01	T350G106K035AS
	15	1.6	4.2	6	8.4	12.7	5.08	399-1436-ND	3.14	2.69	2.11	T350J156K035AS
	22	1.3	6.2	6	8.9	13.5	5.08	399-1437-ND	3.14	2.69	2.11	T350K226K035AS
	47	0.8	10.0	6	10.2	17.0	5.08	399-1438-ND	8.18	7.02	5.50	T350M476K035AS
50	.10	26	0.5	3	4.5	7.1	2.54	399-1439-ND	.53	.45	.36	T350A104K050AS
	.15	21	0.5	3	4.5	7.1	2.54	399-1440-ND	.53	.45	.36	T350A154K050AS
	.22	17	0.5	3	4.5	7.1	2.54	399-1441-ND	.53	.45	.36	T350A224K050AS
	.33	15	0.5	3	4.5	7.1	2.54	399-1442-ND	.53	.45	.36	T350A334K050AS
	.47	13	0.5	3	4.5	7.6	2.54	399-1443-ND	.59	.51	.40	T350B474K050AS
	.68	10	0.5	3	4.5	7.6	2.54	399-1444-ND	.59	.51	.40	T350B684K050AS
	1.0	8	0.5	3	4.5	7.6	2.54	399-1445-ND	.59	.51	.40	T350B105K050AS
	1.5	5	0.6	5	5.5	8.9	2.54	399-1446-ND	.88	.76	.60	T350E155K050AS
	2.2	3.5	0.9	5	5.5	8.9	2.54	399-1447-ND	.93	.80	.63	T350E225K050AS
	3.3	3	1.3	5	6.0	9.9	2.54	399-1448-ND	1.03	.89	.70	T350F335K050AS
	4.7	2.5	1.9	5	6.3	10.2	2.54	399-1449-ND	1.29	1.11	.87	T350G475K050AS
	6.8	2	2.7	5	8.4	12.7	5.08	399-1450-ND	3.02	2.60	2.04	T350J685K050AS
	10	1.6	4.0	6	8.9	13.5	5.08	399-1451-ND	5.32	4.56	3.58	T350K106K050AS

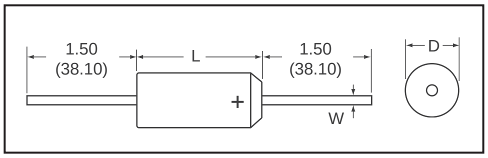
WV (DC)	Cap. (µF)	ESR @100K Hz @ +25°C	D.C.L. µA@ 25°C	Max. DF % @25°C 120Hz	Dim. (mm)			Digi-Key Part No.	Price Each			Kemet Part No.
					D	H	LS		1	10	100	
T356 Series												
6	4.7	10	0.5	5	4.5	8.6	5.08	399-1302-ND	.39	.34	.27	T356A475K006AS
	6.8	8	0.5	5	4.5	8.6	5.08	399-1303-ND	.48	.42	.33	T356A685K006AS
	10	6	0.5	6	4.5	8.9	5.08	399-1304-ND	.59	.51	.40	T356B106K006AS
	15	5	0.7	6	5.0	9.6	5.08	399-1305-ND	.66	.57	.45	T356C156K006AS
	22	3.7	1.1	6	5.0	9.9	5.08	399-1306-ND	.78	.68	.53	T356D226K006AS
	33	3	1.6	6	5.5	10.2	5.08	399-1307-ND	.83	.72	.56	T356E336K006AS
	47	2	2.3	6	6.0	11.2	5.08	399-1308-ND	.93	.80	.63	T356F476K006AS
	68	1.8	3.3	6	6.3	11.4	5.08	399-1309-ND	1.10	.95	.75	T356G686K006AS
	100	1.6	4.8	8	7.6	11.9	5.08	399-1310-ND	2.60	2.23	1.75	T356H107K006AS
	150	0.9	7.2	8	8.4	14.0	5.08	399-1311-ND	3.33	2.86	2.24	T356J157K006AS
10	2.2	13	0.5	5	4.5	8.6	5.08	399-1312-ND	.48	.42	.33	T356A225K010AS
	3.3	10	0.5	5	4.5	8.6	5.08	399-1313-ND	.48	.42	.33	T356A335K010AS
	4.7	8	0.5	5	4.5	8.6	5.08	399-1314-ND	.48	.42	.33	T356A475K010AS
	6.8	6	0.5	5	4.5	8.9	5.08	399-1315-ND	.66	.57	.45	T356B685K010AS
	10	5	0.8	6	5.0	9.6	5.08	399-1316-ND	.66	.57	.45	T356C106K010AS
	15	3.7	1.2	6	5.5	10.2	5.08	399-1317-ND	.78	.68	.53	T356E156K010AS
	22	2.7	1.8	6	5.5	10.2	5.08	399-1318-ND	.88	.76	.60	T356E226K010AS
	33	2.1	2.6	6	6.0	11.2	5.08	399-1319-ND	1.03	.89	.70	T356F336K010AS
	47	1.7	3.8	6	7.6	11.9	5.08	399-1320-ND	1.81	1.56	1.22	T356H476K010AS
	68	1.3	5.4	6	7.6	11.9	5.08	399-1321-ND	2.60	2.23	1.75	T356H686K010AS
	100	1	8.0	8	8.4	14.0	5.08	399-1322-ND	3.33	2.86	2.24	T356J107K010AS
16	1.5	10	0.5	5	4.5	8.6	5.08	399-1323-ND	.48	.42	.33	T356A155K016AS
	2.2	8	0.5	5	4.5	8.6	5.08	399-1324-ND	.48	.42	.33	T356A225K016AS
	3.3	6	0.5	5	4.5	8.6	5.08	399-1325-ND	.48	.42	.33	T356A335K016AS
	4.7	5	0.6	5	4.5	8.9	5.08	399-1326-ND	.59	.51	.40	T356B475K016AS
	6.8	4	0.9	5	5.0	9.6	5.08	399-1327-ND	.69	.59	.47	T356C685K016AS
	10	3.2	1.3	6	5.5	10.2	5.08	399-1328-ND	.71	.61	.48	T356E106K016AS
	15	2.5	1.8	6	5.5	10.2	5.08	399-1329-ND	.93	.80	.63	T356E156K016AS
	22	2	2.6	6	6.0	11.2	5.08	399-1330-ND	.93	.80	.63	T356F226K016AS
	33	1.6	4.0	6	7.6	11.9	5.08	399-1331-ND	1.81	1.56	1.22	T356H336K016AS
	47	1.3	5.6	6	8.4	14.0	5.08	399-1332-ND	2.77	2.38	1.87	T356J476K016AS
	68	1	8.2	6	8.9	15.5	5.08	399-1333-ND	3.33	2.86	2.24	T356K686K016AS
	100	0.8	10.0	8	8.9	18.1	5.08	399-1334-ND	7.14	6.12	4.80	T356L107K016AS
20	10	2.9	1.6	6	5.5	10.2	5.08	399-1335-ND	.88	.76	.60	T356E106K020AS
	100	0.6	10.0	8	10.2	18.8	5.08	399-1336-ND	8.18	7.02	5.50	T356M107K020AS
25	1.0	10	0.5	3	4.5	8.6	5.08	399-1337-ND	.48	.42	.33	T356A105K025AS
	1.5	8	0.5	5	4.5	8.6	5.08	399-1338-ND	.48	.42	.33	T356A155K025AS
	2.2	6	0.5	5	4.5	8.9	5.08	399-1339-ND	.59	.51	.40	T356B225K025AS
	3.3	5	0.7	5	4.5	8.9	5.08	399-1340-ND	.59	.51	.40	T356B335K025AS
	4.7	4	0.9	5	5.0	9.6	5.08	399-1341-ND	.71	.61	.48	T356C475K025AS
	6.8	3.1	1.4	5	5.5	10.2	5.08	399-1342-ND	.93	.80	.63	T356E685K025AS
	10	2.5	2.0	6	5.5	10.2	5.08	399-1343-ND	.93	.80	.63	T356E106K025AS
	15	2	3.0	6	6.3	11.4	5.08	399-1344-ND	2.00	1.71	1.34	T356G156K025AS
	22	1.5	4.4	6	7.6	11.9	5.08	399-1345-ND	2.60	2.23	1.75	T356H226K025AS
	33	1.2	6.6	6	8.4	14.0	5.08	399-1346-ND	3.33	2.86	2.24	T356J336K025AS
	47	1	9.4	6	8.9	15.5	5.08	399-1347-ND	5.07	4.35	3.41	T356K476K025AS
35	.10	26	0.5	3	4.5	8.6	5.08	399-1348-ND	.48	.42	.33	T356A104K035AS
	.15	21	0.5	3	4.5	8.6	5.08	399-1349-ND	.48	.42	.33	T356A154K035AS
	.22	17	0.5	3	4.5	8.6	5.08	399-1350-ND	.48	.42	.33	T356A224K035AS
	.33	15	0.5	3	4.5	8.6	5.08	399-1351-ND	.48	.42	.33	T356A334K035AS
	.47	13	0.5	3	4.5	8.6	5.08	399-1352-ND	.48	.42	.33	T356A474K035AS
	.68	10	0.5	3	4.5	8.6	5.08	399-1353-ND	.48	.42	.33	T356A684K035AS
	1.0	8	0.5	3	4.5	8.6	5.08	399-1354-ND	.48	.42	.33	T356A105K035AS
	1.5	6	0.5	5	4.5	8.9	5.08	399-1355-ND	.54	.47	.37	T356B155K035AS
	2.2	5	0.6	5	5.0	9.6	5.08	399-1356-ND	.59	.51	.40	T356C225K035AS
	3.3	4	0.9	5	5.0	9.9	5.08	399-1357-ND	.74	.63	.50	T356D335K035AS
	4.7	3	1.3	5	5.5	10.2	5.08	399-1358-ND	.78	.68	.53	T356E475K035AS
	6.8	2.5	1.9	5	6.0	11.2	5.08	399-1359-ND	.88	.76	.60	T356F685K035AS
	10	2	2.8	6	6.3	11.4	5.08	399-1360-ND	1.50	1.29	1.01	T356G106K035AS
	15	1.6	4.2	6	8.4	14.0	5.08	399-1361-ND	3.14	2.69	2.11	T356J156K035AS
	22	1.3	6.2	6	8.9	15.5	5.08	399-1362-ND	3.14	2.69	2.11	T356K226K035AS
	47	0.8	10.0	6	10.2	18.8	5.08	399-1363-ND	8.18	7.02	5.50	T356M476K035AS
50	.10	26	0.5	3	4.5	8.6	5.08	399-1364-ND	.53	.45	.36	T356A104K050AS
	.15	21	0.5	3	4.5	8.6	5.08	399-1365-ND	.53	.45	.36	T356A154K050AS
	.22	17	0.5	3	4.5	8.6	5.08	399-1366-ND	.53	.45	.36	T356A224K050AS
	.33	15	0.5	3	4.5	8.6	5.08	399-1367-ND	.53	.45	.36	T356A334K050AS
	.47	13	0.5	3	4.5	8.9	5.08	399-1368-ND	.59	.51	.40	T356B474K050AS
	.68	10	0.5	3	4.5	8.9	5.08	399-1369-ND	.59	.51	.40	T356B684K050AS
	1.0	8	0.5	3	4.5	8.9	5.08	399-1370-ND	.59	.51	.40	T356B105K050AS
	1.5	5	0.6	5	5.5	10.2	5.08	399-1371-ND	.88	.76	.60	T356E155K050AS
	2.2	3.5	0.9	5	5.5	10.2	5.08	399-1372-ND	.93	.80	.63	T356E225K050AS
	3.3	3	1.3	5	6.0	11.2	5.08	399-1373-ND	1.03	.89	.70	T356F335K050AS
	4.7	2.5	1.9	5	6.3	11.4	5.08	399-1374-ND	1.29	1.11	.87	T356G475K050AS
	6.8	2	2.7	5	8.4	14.0	5.08	399-1375-ND	3.02	2.60	2.04	T356J685K050AS
	10	1.6	4.0	6	8.9	15.5	5.08	399-1376-ND	5.32	4.56	3.58	T356K106K050AS

Molded Axial Tantalum Capacitors

T322 Series

The KEMET T322 Series offers a complete line of extended range molded solid tantalum capacitors. These capacitors offer an extremely high capacitance-to-volume ratio while still maintaining excellent performance characteristics.

Applications: Decoupling, blocking, bypassing and filtering in commercial computers, data processing, communications, and other electronic equipment. The low ESR/impedance at high frequencies offered by this capacitor is especially suitable for decoupling required by high speed computers. *The ESR values provided are for reference only.* **Capacitance Tolerance (%):** ±10



WV (DC)	Cap. (µF)	ESR @ 100K Hz @ +25°C	D.C. Leakage µA@25°C	Max. DF %@25°C 120Hz	Dimensions (mm)			Digi-Key Part No.	Price Each			Kemet Part No.
					D	L	W		1	10	100	
6	3.3	13	0.5	4	2.4	6.6	.51	399-1452-ND	.65	.56	.44	T322A335K006AS
	4.7	10	0.5	4	2.4	6.6	.51	399-1453-ND	.65	.56	.44	T322A475K006AS
	6.8	8	0.5	6	2.8	7.4	.51	399-1454-ND	.71	.61	.48	T322B685K006AS
	10	6	0.5	6	2.8	7.4	.51	399-1455-ND	.71	.61	.48	T322B106K006AS
	15	5	0.7	6	2.8	7.4	.51	399-1456-ND	.71	.61	.48	T322B156K006AS
	22	3.7	1.1	6	4.6	8.8	.51	399-1457-ND	1.36	1.17	.92	T322C226K006AS
	33	3.0	1.5	6	4.6	8.8	.51	399-1458-ND	1.36	1.17	.92	T322C336K006AS
	47	2.0	2.3	6	4.6	10.7	.51	399-1459-ND	1.52	1.31	1.02	T322D476K006AS
	68	1.8	3.3	6	4.6	10.7	.51	399-1460-ND	1.64	1.41	1.11	T322D686K006AS
	100	1.6	4.8	8	7.1	13.5	.64	399-1461-ND	4.14	3.55	2.78	T322E107K006AS
	150	0.9	5.0	8	7.1	13.5	.64	399-1462-ND	4.14	3.55	2.78	T322E157K006AS
	220	0.9	10.0	8	7.1	13.5	.64	399-1463-ND	5.51	4.73	3.70	T322E227K006AS
	330	0.7	10.0	8	7.6	18.0	.64	399-1464-ND	10.96	9.40	7.37	T322F337K006AS
10	2.2	13	0.5	4	2.4	6.6	.51	399-1465-ND	.65	.56	.44	T322A225K010AS
	3.3	10	0.5	4	2.4	6.6	.51	399-1466-ND	.65	.56	.44	T322A335K010AS
	4.7	8	0.5	4	2.8	7.4	.51	399-1467-ND	.71	.61	.48	T322B475K010AS
	6.8	6	0.5	6	2.8	7.4	.51	399-1468-ND	.71	.61	.48	T322B685K010AS
	10	5	0.8	6	2.8	7.4	.51	399-1469-ND	.71	.61	.48	T322B106K010AS
	15	3.7	1.2	6	4.6	8.8	.51	399-1470-ND	1.36	1.17	.92	T322C156K010AS
	22	2.7	1.5	6	4.6	8.8	.51	399-1471-ND	1.36	1.17	.92	T322C226K010AS
	33	2.1	2.6	6	4.6	10.7	.51	399-1472-ND	1.52	1.31	1.02	T322D336K010AS
	47	1.7	3.8	6	4.6	10.7	.51	399-1473-ND	1.64	1.41	1.11	T322D476K010AS
	68	1.3	5.0	6	7.1	13.5	.64	399-1474-ND	4.14	3.55	2.78	T322E686K010AS
	100	1.0	8.0	8	7.1	13.5	.64	399-1475-ND	4.14	3.55	2.78	T322E107K010AS
	150	0.8	10.0	8	7.1	13.5	.64	399-1476-ND	5.51	4.73	3.70	T322E157K010AS
	220	0.6	10.0	8	7.6	18.0	.64	399-1477-ND	10.96	9.40	7.37	T322F227K010AS
15	1.5	10	0.5	4	2.4	6.6	.51	399-1478-ND	.65	.56	.44	T322A155K015AS
	2.2	8	0.5	4	2.4	6.6	.51	399-1479-ND	.65	.56	.44	T322A225K015AS
	3.3	6	0.5	4	2.8	7.4	.51	399-1480-ND	.71	.61	.48	T322B335K015AS
	4.7	5	0.6	4	2.8	7.4	.51	399-1481-ND	.80	.69	.54	T322B475K015AS
	6.8	4	0.8	6	2.8	7.4	.51	399-1482-ND	.80	.69	.54	T322B685K015AS
	10	3.2	1.2	6	4.6	8.8	.51	399-1483-ND	1.36	1.17	.92	T322C106K015AS
	15	2.5	1.5	6	4.6	8.8	.51	399-1484-ND	1.36	1.17	.92	T322C156K015AS
	22	2.0	2.6	6	4.6	10.7	.51	399-1485-ND	1.52	1.31	1.02	T322D226K015AS
	33	1.6	4.0	6	4.6	10.7	.51	399-1486-ND	1.64	1.41	1.11	T322D336K015AS
	47	1.3	5.0	6	7.1	13.5	.64	399-1487-ND	4.14	3.55	2.78	T322E476K015AS
	56	1.3	6.7	6	7.1	13.5	.64	399-1488-ND	4.14	3.55	2.78	T322E566K015AS
	68	1.0	8.2	6	7.1	13.5	.64	399-1489-ND	4.14	3.55	2.78	T322E686K015AS
	100	0.8	10.0	8	7.1	13.5	.64	399-1490-ND	5.51	4.73	3.70	T322E107K015AS
	150	0.6	10.0	8	7.6	18.0	.64	399-1491-ND	10.96	9.40	7.37	T322F157K015AS
20	1.0	10	0.5	4	2.4	6.6	.51	399-1492-ND	.65	.56	.44	T322A105K020AS
	1.5	9	0.5	4	2.4	6.6	.51	399-1493-ND	.65	.56	.44	T322A155K020AS
	2.2	7	0.5	4	2.8	7.4	.51	399-1494-ND	.71	.61	.48	T322B225K020AS
	3.3	5.5	0.5	4	2.8	7.4	.51	399-1495-ND	.71	.61	.48	T322B335K020AS
	4.7	4.5	0.8	4	2.8	7.4	.51	399-1496-ND	.80	.69	.54	T322B475K020AS
	10	2.9	1.6	6	4.6	8.8	.51	399-1497-ND	1.36	1.17	.92	T322C106K020AS
	15	2.3	2.4	6	4.6	10.7	.51	399-1498-ND	1.52	1.31	1.02	T322D156K020AS
	22	1.8	3.5	6	4.6	10.7	.51	399-1499-ND	1.64	1.41	1.11	T322D226K020AS
	33	1.4	5.0	6	7.1	13.5	.64	399-1500-ND	4.14	3.55	2.78	T322E336K020AS
	47	1.2	7.5	6	7.1	13.5	.64	399-1501-ND	4.14	3.55	2.78	T322E476K020AS
	68	0.9	10.0	6	7.1	13.5	.64	399-1502-ND	5.51	4.73	3.70	T322E686K020AS
	100	0.6	10.0	8	7.6	18.0	.64	399-1503-ND	10.96	9.40	7.37	T322F107K020AS
25	.47	16	0.5	3	2.4	6.6	.51	399-1504-ND	.65	.56	.44	T322A474K025AS
	.68	12	0.5	3	2.4	6.6	.51	399-1505-ND	.65	.56	.44	T322A684K025AS
	1.0	10	0.5	3	2.4	6.6	.51	399-1506-ND	.65	.56	.44	T322A105K025AS
	1.5	8	0.5	3	2.8	7.4	.51	399-1507-ND	.80	.69	.54	T322B155K025AS
	2.2	6	0.5	3	2.8	7.4	.51	399-1508-ND	.80	.69	.54	T322B225K025AS
	3.3	5	0.7	3	2.8	7.4	.51	399-1509-ND	.80	.69	.54	T322B335K025AS
	4.7	4	0.9	4	4.6	8.8	.51	399-1510-ND	1.36	1.17	.92	T322C475K025AS
	6.8	3.1	1.4	4	4.6	8.8	.51	399-1511-ND	1.36	1.17	.92	T322C685K025AS
	15	2	3.0	4	4.6	10.7	.51	399-1512-ND	1.64	1.41	1.11	T322D156K025AS
	22	1.5	4.4	6	7.1	13.5	.64	399-1513-ND	4.14	3.55	2.78	T322E226K025AS
	33	1.2	6.6	6	7.1	13.5	.64	399-1514-ND	4.14	3.55	2.78	T322E336K025AS
	47	1.0	9.4	6	7.1	13.5	.64	399-1515-ND	5.51	4.73	3.70	T322E476K025AS
	68	0.8	10.0	6	7.6	18.0	.64	399-1516-ND	10.96	9.40	7.37	T322F686K025AS
35	.10	26	0.5	3	2.4	6.6	.51	399-1517-ND	.65	.56	.44	T322A104K035AS
	.15	21	0.5	3	2.4	6.6	.51	399-1518-ND	.65	.56	.44	T322A154K035AS
	.22	17	0.5	3	2.4	6.6	.51	399-1519-ND	.65	.56	.44	T322A224K035AS
	.33	15	0.5	3	2.4	6.6	.51	399-1520-ND	.65	.56	.44	T322A334K035AS
	.47	13	0.5	3	2.4	6.6	.51	399-1521-ND	.65	.56	.44	T322A474K035AS
	.68	10	0.5	3	2.8	7.4	.51	399-1522-ND	.71	.61	.48	T322B684K035AS
	1.0	8	0.5	3	2.8	7.4	.51	399-1523-ND	.71	.61	.48	T322B105K035AS
	1.5	6	0.5	3	2.8	7.4	.51	399-1524-ND	.80	.69	.54	T322B155K035AS
	2.2	5	0.6	3	4.6	8.8	.51	399-1525-ND	1.36	1.17	.92	T322C225K035AS
	3.3	4	0.9	4	4.6	8.8	.51	399-1526-ND	1.36	1.17	.92	T322C335K035AS
	4.7	3	1.3	4	4.6	8.8	.51	399-1527-ND	1.36	1.17	.92	T322C475K035AS
	6.8	2.5	1.9	4	4.6	10.7	.51	399-1528-ND	1.52	1.31	1.02	T322D685K035AS
	10	2	2.8	4	4.6	10.7	.51	399-1529-ND	1.64	1.41	1.11	T322D106K035AS
	15	1.6	4.2	6	7.1	13.5	.64	399-1530-ND	4.14	3.55	2.78	T322E156K035AS
	22	1.3	6.2	6	7.1	13.5	.64	399-1531-ND	4.14	3.55	2.78	T322E226K035AS
	33	1	9.2	6	7.1	13.5	.64	399-1532-ND	5.51	4.73	3.70	T322E336K035AS
	47	0.8	10.0	6	7.6	18.0	.64	399-1533-ND	10.96	9.40	7.37	T322F476K035AS
50	.10	26	0.5	3	2.4	6.6	.51	399-1534-ND	.74	.63	.50	T322A104K050AS
	.15	21	0.5	3	2.4	6.6	.51	399-1535-ND	.74	.63	.50	T322A154K050AS
	.22	17	0.5	3	2.4	6.6	.51	399-1536-ND	.74	.63	.50	T322A224K050AS
	.33	15	0.5	3	2.8	7.4	.51	399-1537-ND	.87	.75	.59	T322B334K050AS
	.47	13	0.5	3	2.8	7.4	.51	399-1538-ND	.87	.75	.59	T322B474K050AS
	.68	10	0.5	3	2.8	7.4	.51	399-1539-ND	.87	.75	.59	T322B684K050AS
	1.0	8	0.5	3	2.8	7.4	.51	399-1540-ND	.96	.83	.65	T322B105K050AS
	1.5	5	0.6	4	4.6	8.8	.51	399-1541-ND	1.54	1.33	1.04	T322C155K050AS
	2.2	3.5	0.9	4	4.6	8.8	.51	399-1542-ND	1.54	1.33	1.04	T322C225K050AS
	3.3	3	1.3	4	4.6	10.7	.51	399-1543-ND	2.06	1.77	1.39	T322D335K050AS
	4.7	2.5	1.9	4	4.6	10.7	.51	399-1544-ND	2.06	1.77	1.39	T322D475K050AS
	6.8	2	2.7	4	7.1	13.5	.64	399-1545-ND	4.54	3.90	3.06	T322E685K050AS
	10	1.6	4.0	6	7.1	13.5	.64	399-1546-ND	4.54	3.90	3.06	T322E106K050AS
	15	1.2	6.0	6	7.6	18.0	.64	399-1547-ND	13.62	11.68	9.15	T322F156K050AS
	22	1	8.8	6	7.6	18.0	.64	399-1548-ND	13.62	11.68	9.15	T322F226K050AS

KEMET Surface Mount Tantalum Chip Capacitors

KEMET's family of solid tantalum chip capacitors are designed and manufactured with the requirements of surface mount technology in mind. These devices extend the advantages of solid tantalum technology to today's surface mount circuit applications.

Operating Temperature Range: -55°C to +125°C (T520 Series: -55°C to +105°C)

T491 Series — Industrial

The leading choice in surface mount designs. This product meets or exceeds the requirements of EIA standard 535BAAC. The physical outline and dimensions of this series conform to this global standard.

This product was designed specifically for highly automated surface mount processes and equipment.

T494 Series — Low ESR, Industrial Grade

The T494 is a low ESR series that is available in all the same case sizes and CV ratings as the T491 Series. The T494 offers low ESR performance with the economy of an industrial grade device. This series is targeted for output filtering.

T495 Series — Low ESR, Surge Robust

Designed primarily for output filtering in switch-mode power supplies and DC-to-DC converters, the standard CV T495 values are an excellent choice for battery-to-ground input filter applications.

This series offers several important advantages: Very low ESR, high ripple current capability, excellent capacitance stability and improved ability to withstand high inrush currents.

T496 Series — Fused

KEMET also offers a "fail-safe" fused solid tantalum chip capacitor. The built-in fuse element provides excellent protection from damaging short circuit conditions in applications where high fault currents exist. Protection from costly circuit damage due to reversed installation is offered with this device.

T510 Series — Ultra-Low ESR

KEMET's T510 Series offers the industry's lowest ESR in the popular EIA 7343-43 case size. The ultra-low ESR and high ripple current capability make it an ideal choice for SMPS filtering and power decoupling.

KEMET has developed an innovative construction platform that incorporates multiple capacitor elements, in parallel, inside a single package.

T520 Series — KO-CAP Polymer Tantalum

The KO-CAP in a Tantalum capacitor, with Ta anode and Ta2O5 dielectric. A conductive, organic, polymer replaces the MnO2 as the cathode plate of the capacitor. This results in very low ESR and improved cap retention at high frequency. The KO-CAP also exhibits a benign failure mode, which eliminates the ignition failures that can occur in standard MnO2 Tantalum types.

KO-CAPs may be operated at voltages up to 80% of rated voltage with equivalent or better reliability than standard tantalums operated at 50% of rated voltage.

The T520 series captures the best features of multilayer ceramic caps (low ESR and high frequency cap retention), aluminum electrolytics (benign failure mode), and proven solid tantalum technology (volumetric efficiency, surface mount capability, and no wearout mechanism).

The KO-CAP can reduce component counts, eliminate through-hole assembly by replacing leaded aluminum capacitors, and offer a more cost effective solution to high-cost high-cap ceramic capacitors.

T530 Series — KO-MAT Polymer Tantalum

The KO-MAT is an extremely low-ESR, volumetrically efficient, organic tantalum chip capacitor that offers high capacitance retention while preventing thermal events (ignition failures).

Organic polymer does not give up oxygen if the dielectric fails short, thus preventing ignition. Organic polymer is more conductive than MnO2 — lower ESR.

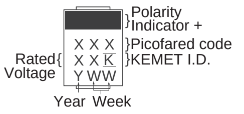
Higher capacitance retention at higher frequencies means fewer parts are required to achieve the desired capacitance.

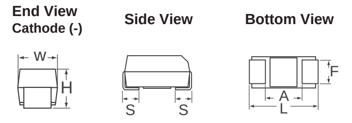
The KO-MAT allows tantalum capacitors to be used in circuits never considered possible before, such as input filters.

Initial focus is for power supplies and microprocessor circuits

Size Code	EIA Code	L	W	H	F ±0.1 ±(.004)	S ±0.3 ±(.012)	A (Min.)
A	3216-18	3.2±0.2 (.126±.008)	1.6±0.2 (.063±.008)	1.6±0.2 (.063±.008)	1.2 (.047)	0.8 (.031)	0.8 (.031)
B	3528-21	3.5±0.2 (.138±.008)	2.8±0.2 (.110±.008)	1.9±0.2 (.075±.008)	2.2 (.087)	0.8 (.031)	1.1 (.043)
C	6032-28	6.0±0.3 (.236±.012)	3.2±0.3 (.126±.012)	2.5±0.3 (.098±.012)	2.2 (.087)	1.3 (.051)	2.5 (.098)
D	7343-31	7.3±0.3 (.287±.012)	4.3±0.3 (.169±.012)	2.8±0.3 (.110±.012)	2.4 (.094)	1.3 (.051)	3.8 (.150)
E	7260-38	7.3±0.3 (.287±.012)	6.0±0.3 (.236±.012)	3.6±0.2 (.142±.008)	4.1 (.161)	1.3 (.051)	3.8 (.150)
V	7343-20	7.3±0.3 (.287±.012)	4.3±0.3 (.169±.012)	2.0 (0.079)	2.4 (.094)	1.3 (.051)	3.8 (.150)
X	7343-43	7.3±0.3 (.287±.012)	4.3±0.3 (.169±.012)	4.0±0.3 (.157±.012)	2.4 (.094)	1.3 (.051)	3.8 (.150)

Capacitor Markings





WV (DC)	Cap. (μF)	Cap. Tol. (%)	DC Leakage μA@+25°C Max.	DF % @+25°C 120Hz Max.	ESR Ω @+25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Size	Pricing	
T491 Series — Industrial														
4	68	±10	2.7	6.0	0.8	D	399-1549-1-ND	.59	.52	.46	399-1549-2-ND	500	108.00	T491D686K004AS
	100	±20	4.0	8.0	1.0	B	399-3000-1-ND	.93	.81	.71	399-3000-2-ND	2,000	315.00/M	T491B107M004AS
	100	±20	4.0	8.0	0.8	D	399-1550-1-ND	.59	.52	.46	399-1550-2-ND	500	108.00	T491D107M004AS
6.3	10	±10	0.6	6.0	4.0	A	399-1551-1-ND	.19	.17	.15	399-1551-2-ND	2,000	65.00/M	T491A106K006AS
	10	±20	0.6	6.0	4.0	A	399-1552-1-ND	.19	.17	.15	399-1552-2-ND	2,000	65.00/M	T491A106M006AS
	10	±10	0.6	6.0	3.5	B	399-1553-1-ND	.24	.21	.18	399-1553-2-ND	2,000	80.00/M	T491B106K006AS
	22	±10	1.4	6.0	3.5	B	399-1554-1-ND	.26	.23	.21	399-1554-2-ND	2,000	90.00/M	T491B226K006AS
	22	±10	1.4	6.0	1.8	C	399-1555-1-ND	.36	.32	.28	399-1555-2-ND	500	66.00	T491C226K006AS
	47	±10	2.9	6.0	1.6	C	399-1556-1-ND	.40	.35	.31	399-1556-2-ND	500	72.00	T491C476K006AS
	68	±20	4.1	8.0	1.0	B	399-3001-1-ND	.93	.81	.71	399-3001-2-ND	2,000	315.00/M	T491B686M006AS
	68	±10	4.1	6.0	1.2	C	399-1557-1-ND	.49	.43	.38	399-1557-2-ND	500	89.00	T491C686K006AS
	68	±10	4.1	6.0	0.8	D	399-1558-1-ND	.59	.52	.46	399-1558-2-ND	500	108.00	T491D686K006AS
	470	±20	28.2	12.0	0.5	D	399-3002-1-ND	4.63	4.03	3.52	399-3002-2-ND	500	842.00	T491D477M006AS
	680	±20	40.8	12.0	0.5	E	399-3094-1-ND	8.55	8.27	7.22	399-3094-2-ND	500	1729.00	T491E687M006AS
10	2.2	±10	0.5	6.0	8.0	A	399-1559-1-ND	.18	.16	.14	399-1559-2-ND	2,000	60.00/M	T491A225K010AS
	3.3	±10	0.5	6.0	6.0	A	399-1560-1-ND	.18	.16	.14	399-1560-2-ND	2,000	60.00/M	T491A335K010AS
	4.7	±10	0.5	6.0	6.0	A	399-1561-1-ND	.18	.16	.14	399-1561-2-ND	2,000	60.00/M	T491A475K010AS
	4.7	±20	0.5	6.0	6.0	A	399-1562-1-ND	.18	.16	.14	399-1562-2-ND	2,000	60.00/M	T491A475M010AS
	4.7	±10	0.5	6.0	3.5	B	399-1565-1-ND	.24	.21	.18	399-1565-2-ND	2,000	80.00/M	T491B475K010AS
	4.7	±20	0.5	6.0	3.5	B	399-1566-1-ND	.24	.21	.18	399-1566-2-ND	2,000	80.00/M	T491B475M010AS
	6.8	±10	0.7	6.0	3.5	B	399-1567-1-ND	.24	.21	.18	399-1567-2-ND	2,000	80.00/M	T491B685K010AS
	10	±10	1.0	6.0	4.0	A	399-1563-1-ND	.20	.18	.16	399-1563-2-ND	2,000	69.00/M	T491A106K010AS
	10	±20	1.0	6.0	4.0	A	399-1564-1-ND	.20	.18	.16	399-1564-2-ND	2,000	69.00/M	T491A106M010AS
	10	±10	1.0	6.0	3.5	B	399-1568-1-ND	.24	.21	.18	399-1568-2-ND	2,000	80.00/M	T491B106K010AS
	10	±20	1.0	6.0	3.5	B	399-1569-1-ND	.24	.21	.18	399-1569-2-ND	2,000	80.00/M	T491B106M010AS
	10	±10	1.0	6.0	1.8	C	399-1571-1-ND	.36	.32	.28	399-1571-2-ND	500	66.00	T491C106K010AS
	15	±10	1.5	6.0	3.5	B	399-1570-1-ND	.26	.23	.21	399-1570-2-ND	2,000	90.00/M	T491B156K010AS
	15	±10	1.5	6.0	1.8	C	399-1572-1-ND	.36	.32	.28	399-1572-2-ND	500	66.00	T491C156K010AS
	22	±20	2.2	10.0	6.0	A	399-3096-1-ND	.43	.42	.37	399-3096-2-ND	2,000	162.00/M	T491A226M010AS
	22	±10	2.2	6.0	1.8	C	399-1573-1-ND	.36	.32	.28	399-1573-2-ND	500	66.00	T491C226K010AS
	33	±10	3.3	6.0	0.8	D	399-1574-1-ND	.59	.52	.46	399-1574-2-ND	500	108.00	T491D336K010AS
	47	±20	4.7	8.0	1.0	B	399-3003-1-ND	.93	.81	.71	399-3003-2-ND	2,000	315.00/M	T491B476M010AS
	47	±10	4.7	6.0	1.2	C	399-1575-1-ND	.49	.43	.38	399-1575-2-ND	500	89.00	T491C476K010AS
	47	±20	4.7	6.0	1.2	C	399-1576-1-ND	.49	.43	.38	399-1576-2-ND	500	89.00	T491C476M010AS
	47	±10	4.7	6.0	0.8	D	399-1577-1-ND	.59	.52	.46	399-1577-2-ND	500	108.00	T491D476K010AS
	47	±20	4.7	6.0	0.8	D	399-1578-1-ND	.59	.52	.46	399-1578-2-ND	500	108.00	T491D476M010AS
	100	±10	10.0	8.0	0.7	D	399-1579-1-ND	.73	.64	.56	399-1579-2-ND	500	132.00	T491D107K010AS
	100	±20	10.0	8.0	0.7	D	399-1580-1-ND	.73	.64	.56	399-1580-2-ND	500	132.00	T491D107M010AS
	150	±20	15.0	8.0	0.7	D	399-1581-1-ND	.95	.83	.72	399-1581-2-ND	500	172.00	T491D157M010AS
	220	±10	22.0	8.0	0.5	X	399-1582-1-ND	2.22	1.93	1.69	399-1582-2-ND	500	403.50	T491X227K010AS
	330	±20	33.0	10.0	0.5	D	399-3097-1-ND	4.16	4.03	3.52	399-3097-2-ND	500	842.00	T491D337M010AS
	470	±20	47.0	12.0	0.5	E	399-3095-1-ND	8.55	8.27	7.22	399-3095-2-ND	500	1729.00	T491E477M010AS
16	1.0	±10	0.5	4.0	10.0	A	399-1583-1-ND	.18	.16	.14	399-1583-2-ND	2,000	60.00/M	T491A105K016AS
	1.0	±20	0.5	4.0	10.0	A	399-1584-1-ND	.18	.16	.14	399-1584-2-ND	2,000	60.00/M	T491A105M016AS
	1.5	±10	0.5	6.0	8.0	A	399-1585-1-ND	.18	.16	.14	399-1585-2-ND	2,000	60.00/M	T491A155K016AS
	2.2	±10	0.5	6.0	6.0	A	399-1586-1-ND	.18	.16	.14	399-1586-2-ND	2,000	60.00/M	T491A225K016AS
	3.3	±10	0.5	6.0	3.5	B	399-1589-1-ND	.24	.21	.18	399-1589-2-ND	2,000	80.00/M	T491B335K016AS
	4.7	±10	0.8	6.0	6.0	A	399-1587-1-ND	.19	.17	.15	399-1587-2-ND	2,000	65.00/M	T491A475K016AS
	4.7	±20	0.8	6.0	6.0	A	399-1588-1-ND	.19	.17	.15	399-1588-2-ND	2,000	65.00/M	T491A475M016AS
	4.7	±10	0.8	6.0	3.5	B	399-1590-1-ND	.24	.21	.18	399-1590-2-ND	2,000	80.00/M	T491B475K016AS
	4.7	±20	0.8	6.0	3.5	B	399-1591-1-ND	.24	.21	.18	399-1591-2-ND	2,000	80.00/M	T491B475M016AS
	6.8	±20	1.1	6.0	1.9	C	399-1592-1-ND	.36	.32	.28	399-1592-2-ND	500	66.00	T491C685M016AS
	10	±20	1.6	10.0	7.0	A	399-3098-1-ND	.20	.20	.17	399-3098-2-ND	2,000	75.00/M	T491A106M016AS
	10	±10	1.6	6.0	3.5	B	399-1593-1-ND	.26	.23	.21	399-1593-2-ND	2,000	90.00/M	T491B106K016AS
	10	±20	1.6	6.0	3.5	B	399-1594-1-ND	.26	.23	.21	399-1594-2-ND	2,000	90.00/M	T491B106M016AS
	10	±10	1.6	6.0	1.8	C	399-1595-1-ND	.36	.32	.28	399-1595-2-ND	500	66.00	T491C106K016AS
	10	±20	1.6	6.0	1.8	C	399-1596-1-ND	.36	.32	.28	399-1596-2-ND	500	66.00	T491C106M016AS
	22	±20	3.5	6.0	2.2	B	399-3099-1-ND	.44	.43	.38	399-3099-2-ND	2,000	166.00/M	T491B226M016AS

NOTE: Parts with improved tolerances or voltages may be subsituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA@+25°C Max.	DF % @+25°C 120Hz Max.	ESR Ω @+25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Size	Pricing	
16	22	±10	3.6	6.0	1.6	C	399-1597-1-ND	.40	.35	.31	399-1597-2-ND	500	72.00	T491C226K016AS
	22	±20	3.6	6.0	1.6	C	399-1598-1-ND	.40	.35	.31	399-1598-2-ND	500	72.00	T491C226M016AS
	22	±10	3.6	6.0	0.8	D	399-1600-1-ND	.59	.52	.46	399-1600-2-ND	500	108.00	T491D226K016AS
	33	±10	5.3	6.0	1.2	C	399-1599-1-ND	.49	.43	.38	399-1599-2-ND	500	89.00	T491C336K016AS
	33	±10	5.3	6.0	0.8	D	399-1601-1-ND	.59	.52	.46	399-1601-2-ND	500	108.00	T491D336K016AS
	33	±20	5.3	6.0	0.8	D	399-1602-1-ND	.59	.52	.46	399-1602-2-ND	500	108.00	T491D336M016AS
	47	±10	7.5	6.0	0.8	D	399-1603-1-ND	.59	.52	.46	399-1603-2-ND	500	108.00	T491D476K016AS
	100	±10	16.0	8.0	0.7	D	399-1604-1-ND	.95	.83	.72	399-1604-2-ND	500	172.00	T491D107K016AS
	100	±20	16.0	8.0	0.7	D	399-1605-1-ND	.95	.83	.72	399-1605-2-ND	500	172.00	T491D107M016AS
	100	±10	16.0	8.0	0.7	X	399-1606-1-ND	1.82	1.58	1.38	399-1606-2-ND	500	330.50	T491X107K016AS
	100	±20	16.0	8.0	0.7	X	399-1607-1-ND	1.82	1.58	1.38	399-1607-2-ND	500	330.50	T491X107M016AS
	150	±10	24.0	8.0	0.5	X	399-1608-1-ND	2.22	1.93	1.69	399-1608-2-ND	500	403.50	T491X157K016AS
20	1.0	±10	0.5	4.0	10.0	A	399-1609-1-ND	.18	.16	.14	399-1609-2-ND	2,000	60.00/M	T491A105K020AS
	1.0	±20	0.5	4.0	10.0	A	399-1610-1-ND	.18	.16	.14	399-1610-2-ND	2,000	60.00/M	T491A105M020AS
	2.2	±10	0.5	6.0	3.5	B	399-1611-1-ND	.24	.21	.18	399-1611-2-ND	2,000	80.00/M	T491B225K020AS
	4.7	±10	1.0	6.0	3.5	B	399-1612-1-ND	.24	.21	.18	399-1612-2-ND	2,000	80.00/M	T491B475K020AS
	6.8	±10	1.4	6.0	1.9	C	399-1613-1-ND	.36	.32	.28	399-1613-2-ND	500	66.00	T491C685K020AS
	10	±10	2.0	6.0	1.8	C	399-1614-1-ND	.36	.32	.28	399-1614-2-ND	500	66.00	T491C106K020AS
	22	±10	4.4	6.0	1.2	C	399-1615-1-ND	.49	.43	.38	399-1615-2-ND	500	89.00	T491C226K020AS
	22	±10	4.4	6.0	0.8	D	399-1616-1-ND	.59	.52	.46	399-1616-2-ND	500	108.00	T491D226K020AS
	22	±20	4.4	6.0	0.8	D	399-1617-1-ND	.59	.52	.46	399-1617-2-ND	500	108.00	T491D226M020AS
	33	±10	6.6	6.0	0.8	D	399-1618-1-ND	.59	.52	.46	399-1618-2-ND	500	108.00	T491D336K020AS
	47	±10	9.4	6.0	0.7	D	399-1619-1-ND	.73	.64	.56	399-1619-2-ND	500	132.00	T491D476K020AS
	68	±10	13.6	8.0	0.7	D	399-1620-1-ND	1.33	1.16	1.02	399-1620-2-ND	500	242.00	T491D686K020AS
	68	±10	13.6	6.0	0.7	X	399-1621-1-ND	1.82	1.58	1.38	399-1621-2-ND	500	330.50	T491X686K020AS
	100	±20	20.0	8.0	0.5	X	399-1622-1-ND	2.22	1.93	1.69	399-1622-2-ND	500	403.50	T491X107M020AS
25	.47	±10	0.5	4.0	14.0	A	399-1623-1-ND	.18	.16	.14	399-1623-2-ND	2,000	60.00/M	T491A474K025AS
	1.0	±10	0.5	4.0	8.0	A	399-1624-1-ND	.19	.17	.15	399-1624-2-ND	2,000	65.00/M	T491A105K025AS
	1.5	±10	0.5	6.0	5.0	B	399-1625-1-ND	.24	.21	.18	399-1625-2-ND	2,000	80.00/M	T491B155K025AS
	2.2	±10	0.6	6.0	4.5	B	399-1626-1-ND	.26	.23	.21	399-1626-2-ND	2,000	90.00/M	T491B225K025AS
	2.2	±10	0.6	6.0	3.5	C	399-1627-1-ND	.36	.32	.28	399-1627-2-ND	500	66.00	T491C225K025AS
	2.2	±20	0.6	6.0	3.5	C	399-1628-1-ND	.36	.32	.28	399-1628-2-ND	500	66.00	T491C225M025AS
	4.7	±10	1.2	6.0	2.4	C	399-1629-1-ND	.36	.32	.28	399-1629-2-ND	500	66.00	T491C475K025AS
	4.7	±20	1.2	6.0	2.4	C	399-1630-1-ND	.36	.32	.28	399-1630-2-ND	500	66.00	T491C475M025AS
	6.8	±10	1.7	6.0	1.9	C	399-1631-1-ND	.36	.32	.28	399-1631-2-ND	500	66.00	T491C685K025AS
	6.8	±20	1.7	6.0	1.9	C	399-1632-1-ND	.36	.32	.28	399-1632-2-ND	500	66.00	T491C685M025AS
	10	±10	2.5	6.0	1.5	C	399-1633-1-ND	.40	.35	.31	399-1633-2-ND	500	72.00	T491C106K025AS
	10	±20	2.5	6.0	1.5	C	399-1634-1-ND	.40	.35	.31	399-1634-2-ND	500	72.00	T491C106M025AS
	10	±10	2.5	6.0	1.0	D	399-1635-1-ND	.59	.52	.46	399-1635-2-ND	500	108.00	T491D106K025AS
	10	±20	2.5	6.0	1.0	D	399-1636-1-ND	.59	.52	.46	399-1636-2-ND	500	108.00	T491D106M025AS
	15	±10	3.8	6.0	1.0	D	399-1637-1-ND	.59	.52	.46	399-1637-2-ND	500	108.00	T491D156K025AS
	15	±20	3.8	6.0	1.0	D	399-1638-1-ND	.59	.52	.46	399-1638-2-ND	500	108.00	T491D156M025AS
	22	±10	5.5	6.0	0.8	D	399-1639-1-ND	.59	.52	.46	399-1639-2-ND	500	108.00	T491D226K025AS
	22	±20	5.5	6.0	0.8	D	399-1640-1-ND	.59	.52	.46	399-1640-2-ND	500	108.00	T491D226M025AS
	33	±10	8.3	6.0	0.7	X	399-1641-1-ND	1.82	1.58	1.38	399-1641-2-ND	500	330.50	T491X336K025AS
	33	±20	8.3	6.0	0.7	X	399-1642-1-ND	1.82	1.58	1.38	399-1642-2-ND	500	330.50	T491X336M025AS
35	.10	±10	0.5	4.0	10.0	A	399-1643-1-ND	.18	.16	.14	399-1643-2-ND	2,000	60.00/M	T491A104K035AS
	.10	±20	0.5	4.0	10.0	A	399-1644-1-ND	.18	.16	.14	399-1644-2-ND	2,000	60.00/M	T491A104M035AS
	.33	±10	0.5	4.0	15.0	A	399-1645-1-ND	.18	.16	.14	399-1645-2-ND	2,000	60.00/M	T491A334K035AS
	1.0	±10	0.5	4.0	5.0	B	399-1646-1-ND	.24	.21	.18	399-1646-2-ND	2,000	80.00/M	T491B105K035AS
	1.0	±20	0.5	4.0	5.0	B	399-1647-1-ND	.24	.21	.18	399-1647-2-ND	2,000	80.00/M	T491B105M035AS
	2.2	±10	0.8	6.0	3.5	C	399-1648-1-ND	.36	.32	.28	399-1648-2-ND	500	66.00	T491C225K035AS
	3.3	±20	1.2	6.0	3.5	B	399-3100-1-ND	.44	.43	.38	399-3100-2-ND	2,000	166.00/M	T491B335M035AS
	3.3	±20	1.2	6.0	2.5	C	399-1649-1-ND	.36	.32	.28	399-1649-2-ND	500	66.00	T491C335M035AS
	4.7	±10	1.7	6.0	2.5	C	399-1650-1-ND	.40	.35	.31	399-1650-2-ND	500	72.00	T491C475K035AS
	4.7	±10	1.7	6.0	1.5	D	399-1651-1-ND	.59	.52	.46	399-1651-2-ND	500	108.00	T491D475K035AS
	6.8	±20	2.4	6.0	2.0	C	399-1652-1-ND	.49	.43	.38	399-1652-2-ND	500	89.00	T491C685M035AS
	6.8	±10	2.4	6.0	1.3	D	399-1653-1-ND	.59	.52	.46	399-1653-2-ND	500	108.00	T491D685K035AS
	10	±10	3.5	6.0	1.0	D	399-1654-1-ND	.59	.52	.46	399-1654-2-ND	500	108.00	T491D106K035AS
	10	±20	3.5	6.0	1.0	D	399-1655-1-ND	.59	.52	.46	399-1655-2-ND	500	108.00	T491D106M035AS
	15	±10	5.3	6.0	0.8	D	399-1656-1-ND	.73	.64	.56	399-1656-2-ND	500	132.00	T491D156K035AS
	22	±10	7.7	6.0	0.7	X	399-1657-1-ND	1.82	1.58	1.38	399-1657-2-ND	500	330.50	T491X226K035AS
	22	±20	7.7	6.0	0.7	X	399-1658-1-ND	1.82	1.58	1.38	399-1658-2-ND	500	330.50	T491X226M035AS
50	.33	±20	0.5	4.0	10.0	B	399-1659-1-ND	.30	.26	.23	399-1659-2-ND	2,000	101.00/M	T491B334M050AS
	.47	±10	0.5	4.0	8.0	C	399-1660-1-ND	.46	.40	.35	399-1660-2-ND	500	83.00	T491C474K050AS
	1.0	±10	0.5	4.0	5.5	C	399-1661-1-ND	.46	.40	.35	399-1661-2-ND	500	83.00	T491C105K050AS
	2.2	±10	1.1	6.0	2.5	D	399-1662-1-ND	.74	.65	.57	399-1662-2-ND	500	135.00	T491D225K050AS
	3.3	±20	1.7	6.0	2.0	D	399-1663-1-ND	.74	.65	.57	399-1663-2-ND	500	135.00	T491D335M050AS
	4.7	±10	2.4	6.0	1.5	D	399-1664-1-ND	.74	.65	.57	399-1664-2-ND	500	135.00	T491D475K050AS
	6.8	±20	3.4	6.0	1.0	D	399-3109-1-ND	.82	.79	.69	399-3109-2-ND	500	165.00	T491D685M050AS
T494 Series — Low ESR, Industrial Grade														
4	100	±20	4.0	8.0	1.0	B	399-3004-1-ND	1.39	1.21	1.06	399-3004-2-ND	2,000	473.00/M	T494B107M004AS
6.3	68	±20	4.1	8.0	1.0	B	399-3005-1-ND	1.39	1.21	1.06	399-3005-2-ND	2,000	473.00/M	T494B686M006AS
	470	±20	28.2	12.0	0.5	D	399-3006-1-ND	8.20	7.14	6.24	399-3006-2-ND	500	1492.50	T494D477M006AS
10	2.2	±10	0.5	6.0	6.0	A	399-1772-1-ND	.54	.53	.46	399-1772-2-ND	2,000	204.00/M	T494A225K010AS
	4.7	±10	0.5	6.0	1.5	B	399-1773-1-ND	.74	.72	.63	399-1773-2-ND	2,000	281.00/M	T494B475K010AS
	10	±20	1.0	6.0	0.8	B	399-1774-1-ND	.72	.70	.61	399-1774-2-ND	2,000	272.00/M	T494B106M010AS
	22	±20	2.2	10.0	4.5	A	399-3103-1-ND	.74	.72	.63	399-3103-2-ND	2,000	281.00/M	T494A226M010AS
	33	±10	3.3	6.0	2.00	B	399-1775-1-ND	1.22	1.18	1.03	399-1775-2-ND	2,000	459.00/M	T494B336K010AS
	47	±20	4.7	8.0	1.0	B	399-3007-1-ND	1.39	1.21	1.06	399-3007-2-ND	2,000	473.00/M	T494B476M010AS
	47	±10	4.7	6.0	0.30	C	399-1776-1-ND	1.46	1.42	1.24	399-1776-2-ND	500	296.00	T494C476K010AS
	100	±10	10.0	8.0	0.15	D	399-1777-1-ND	2.34	2.27	1.98	399-1777-2-ND	500	473.00	T494D107K010AS
	330	±20	33.0	10.0	0.15	D	399-3104-1-ND	7.38	7.14	6.24	399-3104-2-ND	500	1492.50	T494D337M010AS
	330	±10	33.0	10.0	0.10	X	399-1778-1-ND	9.07	8.77	7.66	399-1778-2-ND	500	1833.50	T494X337K010AS
16	10	±20	1.6	10.0	3.0	A	399-3105-1-ND	.70	.68	.59	399-3105-2-ND	2,000	264.00/M	T494A106M016AS
	10	±10	1.6	6.0	0.8	B	399-1779-1-ND	.81	.79	.69	399-1779-2-ND	2,000	306.00/M	T494B106K016AS
	22	±20	3.5	6.0	0.8	B	399-3106-1-ND	1.17	1.14	.99	399-3106-2-ND	2,000	442.00/M	T494B226M016AS
	22	±10	3.6	6.0	0.35	C	399-1780-1-ND	1.29	1.25	1.09	399-1780-2-ND	500	260.50	T494C226K016AS
	22	±20	3.6	6.0	0.35	C	399-1781-1-ND	1.15	1.12	.98	399-1781-2-ND	500	233.00	T494C226M016AS
	22	±10	3.6	6.0	0.25	D	399-1782-1-ND	1.96	1.90	1.66	399-1782-2-ND	500	396.50	T494D226K016AS
	150	±10	24.0	8.0	0.15	X	399-1783-1-ND	7.90	7.64	6.67	399-1783-2-ND	500	1597.00	T494X157K016AS
20	100	±20	20.0	8.0	0.15	X	399-1784-1-ND	7.49	7.24	6.33	399-1784-2-ND	500	1514.00	T494X107M020AS
25	10	±10	2.5	6.0	0.6	C	399-1785-1-ND	1.29	1.25	1.09	399-1785-2-ND	500	260.50	T494C106K025AS
	10	±20	2.5	6.0	0.6	C	399-1786-1-ND	1.15	1.12	.98	399-1786-2-ND	500	233.00	T494C106M025AS
	10	±10	2.5	6.0	0.4	D	399-1787-1-ND	1.96	1.90	1.66	399-1787-2-ND	500	396.50	T494D106K025AS
35	3.3	±20	1.2	6.0	1.3	B	399-3107-1-ND	1.17	1.14	.99	399-3107-2-ND	2,000	442.00/M	T494B335M035AS
	4.7	±10	1.7	6.0	0.7	D	399-1788-1-ND	1.96	1.90	1.66	399-1788-2-ND	500	396.50	T494D475K035AS
	10	±20	3.5	6.0	0.4	D	399-1789-1-ND	1.90	1.84	1.61	399-1789-2-ND	500	384.50	T494D106M035AS
	22	±10	7.7	6.0	0.30	X	399-1790-1-ND	6.44	6.23	5.44	399-1790-2-ND	500	1301.50	T494X226K035AS
50	2.2	±10	1.1	6.0	0.8	D	399-1791-1-ND	2.57	2.49	2.18	399-1791-2-ND	500	520.50	T494D225K050AS
	4.7	±10	2.4	6.0	0.6	D	399-1792-1-ND	2.57	2.49	2.18	399-1792-2-ND	500	520.50	T494D475K050AS
	6.8	±20	3.4	6.0	0.7	D	399-3108-1-ND	2.93	2.83	2.47	399-3108-2-ND	500	591.50	T494D685M050AS

NOTE: Parts with improved tolerances or voltages may be subsituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA@+25°C Max.	DF % @+25°C 120Hz Max.	ESR Ω @+25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Kemet Part No.
T495 Series — Low ESR, Surge Robust														
6.3	330	±10	19.8	8.0	0.10	X	399-1793-1-ND	3.26	3.16	2.76	399-1793-2-ND	500	660.00	T495X337K006AS
10	100	±10	10.0	8.0	0.10	D	399-1794-1-ND	1.58	1.54	1.34	399-1794-2-ND	500	320.50	T495D107K010AS
	150	±20	15.0	8.0	0.15	V	399-3110-1-ND	3.47	3.35	2.93	399-3110-2-ND	1,000	1309.00	T495V157M010AS
	220	±10	22.0	8.0	0.10	X	399-1795-1-ND	3.26	3.16	2.76	399-1795-2-ND	500	660.00	T495X227K010AS
16	100	±10	16.0	8.0	0.10	X	399-1796-1-ND	3.07	2.98	2.60	399-1796-2-ND	500	621.50	T495X107K016AS
	100	±20	16.0	8.0	0.10	X	399-1797-1-ND	3.07	2.98	2.60	399-1797-2-ND	500	621.50	T495X107M016AS
20	47	±10	7.5	4.0	0.15	X	399-1798-1-ND	2.36	2.29	2.00	399-1798-2-ND	500	478.00	T495X476K020AS
	68	±10	13.6	6.0	0.15	X	399-1799-1-ND	3.07	2.98	2.60	399-1799-2-ND	500	621.50	T495X686K020AS
25	33	±10	6.6	4.0	0.175	X	399-1800-1-ND	2.36	2.29	2.00	399-1800-2-ND	500	478.00	T495X336K025AS
35	22	±10	7.7	6.0	0.275	X	399-1801-1-ND	3.07	2.98	2.60	399-1801-2-ND	500	621.50	T495X226K035AS
T496 Series — Fused														
4	330	±10	13.2	8.0	0.7	X	399-1665-1-ND	7.50	6.53	5.70	399-1665-2-ND	500	1365.00	T496X337K004AS
	330	±20	13.2	8.0	0.7	X	399-1666-1-ND	7.00	6.09	5.32	399-1666-2-ND	500	1274.00	T496X337M004AS
6.3	10	±10	0.6	6.0	3.5	B	399-1667-1-ND	1.80	1.57	1.37	399-1667-2-ND	2,000	612.00/M	T496B106K006AS
	10	±20	0.6	6.0	3.5	B	399-1668-1-ND	1.65	1.44	1.26	399-1668-2-ND	2,000	561.00/M	T496B106M006AS
	100	±10	6.0	8.0	0.8	D	399-1669-1-ND	3.90	3.40	2.97	399-1669-2-ND	500	710.00	T496D107K006AS
	100	±20	6.0	8.0	0.8	D	399-1670-1-ND	3.75	3.27	2.85	399-1670-2-ND	500	682.50	T496D107M006AS
	100	±10	6.0	8.0	0.9	X	399-1671-1-ND	7.00	6.09	5.32	399-1671-2-ND	500	1274.00	T496X107K006AS
	100	±20	6.0	8.0	0.9	X	399-1672-1-ND	6.50	5.66	4.94	399-1672-2-ND	500	1183.00	T496X107M006AS
10	4.7	±10	0.5	6.0	3.5	B	399-1673-1-ND	1.80	1.57	1.37	399-1673-2-ND	2,000	612.00/M	T496B475K010AS
	4.7	±20	0.5	6.0	3.5	B	399-1674-1-ND	1.65	1.44	1.26	399-1674-2-ND	2,000	561.00/M	T496B475M010AS
	22	±10	2.2	6.0	2.0	C	399-1675-1-ND	3.00	2.61	2.28	399-1675-2-ND	500	546.00	T496C226K010AS
	22	±20	2.2	6.0	2.0	C	399-1676-1-ND	2.75	2.40	2.09	399-1676-2-ND	500	500.50	T496C226M010AS
	33	±10	3.3	6.0	1.0	D	399-1677-1-ND	3.90	3.40	2.97	399-1677-2-ND	500	710.00	T496D336K010AS
	33	±20	3.3	6.0	1.0	D	399-1678-1-ND	3.75	3.27	2.85	399-1678-2-ND	500	682.50	T496D336M010AS
	47	±10	4.7	6.0	1.0	D	399-1679-1-ND	3.90	3.40	2.97	399-1679-2-ND	500	710.00	T496D476K010AS
	47	±20	4.7	6.0	1.0	D	399-1680-1-ND	3.75	3.27	2.85	399-1680-2-ND	500	682.50	T496D476M010AS
	68	±10	6.8	6.0	0.9	X	399-1683-1-ND	7.00	6.09	5.32	399-1683-2-ND	500	1274.00	T496X686K010AS
	68	±20	6.8	6.0	0.9	X	399-1684-1-ND	6.50	5.66	4.94	399-1684-2-ND	500	1183.00	T496X686M010AS
	100	±10	10.0	8.0	0.7	D	399-1681-1-ND	4.15	3.62	3.16	399-1681-2-ND	500	755.50	T496D107K010AS
	100	±20	10.0	8.0	0.7	D	399-1682-1-ND	4.00	3.48	3.04	399-1682-2-ND	500	728.00	T496D107M010AS
	220	±10	22.0	8.0	0.5	X	399-1685-1-ND	9.00	7.83	6.84	399-1685-2-ND	500	1638.00	T496X227K010AS
	220	±20	22.0	8.0	0.5	X	399-1686-1-ND	8.50	7.40	6.46	399-1686-2-ND	500	1547.00	T496X227M010AS
16	2.2	±10	0.5	6.0	3.5	B	399-1687-1-ND	1.80	1.57	1.37	399-1687-2-ND	2,000	612.00/M	T496B225K016AS
	2.2	±20	0.5	6.0	3.5	B	399-1688-1-ND	1.65	1.44	1.26	399-1688-2-ND	2,000	561.00/M	T496B225M016AS
	4.7	±10	0.8	6.0	3.5	B	399-1689-1-ND	1.80	1.57	1.37	399-1689-2-ND	2,000	612.00/M	T496B475K016AS
	4.7	±20	0.8	6.0	3.5	B	399-1690-1-ND	1.65	1.44	1.26	399-1690-2-ND	2,000	561.00/M	T496B475M016AS
	10	±10	1.6	6.0	3.5	B	399-1691-1-ND	1.90	1.66	1.45	399-1691-2-ND	2,000	646.00/M	T496B106K016AS
	10	±20	1.6	6.0	3.5	B	399-1692-1-ND	1.80	1.57	1.37	399-1692-2-ND	2,000	612.00/M	T496B106M016AS
	10	±10	1.6	6.0	2.0	C	399-1693-1-ND	3.00	2.61	2.28	399-1693-2-ND	500	546.00	T496C106K016AS
	10	±20	1.6	6.0	2.0	C	399-1694-1-ND	2.75	2.40	2.09	399-1694-2-ND	500	500.50	T496C106M016AS
	15	±10	2.4	6.0	2.0	C	399-1695-1-ND	3.00	2.61	2.28	399-1695-2-ND	500	546.00	T496C156K016AS
	15	±20	2.4	6.0	2.0	C	399-1696-1-ND	2.75	2.40	2.09	399-1696-2-ND	500	500.50	T496C156M016AS
	22	±10	3.6	6.0	1.6	C	399-1697-1-ND	3.15	2.75	2.40	399-1697-2-ND	500	573.50	T496C226K016AS
	22	±20	3.6	6.0	1.6	C	399-1698-1-ND	2.90	2.53	2.21	399-1698-2-ND	500	528.00	T496C226M016AS
	33	±10	5.3	6.0	1.0	D	399-1699-1-ND	3.90	3.40	2.97	399-1699-2-ND	500	710.00	T496D336K016AS
	33	±20	5.3	6.0	1.0	D	399-1700-1-ND	3.75	3.27	2.85	399-1700-2-ND	500	682.50	T496D336M016AS
	47	±10	7.5	6.0	0.8	D	399-1701-1-ND	3.90	3.40	2.97	399-1701-2-ND	500	710.00	T496D476K016AS
	47	±20	7.5	6.0	0.8	D	399-1702-1-ND	3.75	3.27	2.85	399-1702-2-ND	500	682.50	T496D476M016AS
	47	±10	7.5	6.0	0.9	X	399-1703-1-ND	7.00	6.09	5.32	399-1703-2-ND	500	1274.00	T496X476K016AS
	47	±20	7.5	6.0	0.9	X	399-1704-1-ND	6.50	5.66	4.94	399-1704-2-ND	500	1183.00	T496X476M016AS
	100	±10	16.0	8.0	0.7	X	399-1705-1-ND	7.50	6.53	5.70	399-1705-2-ND	500	1365.00	T496X107K016AS
20	100	±20	16.0	8.0	0.7	X	399-1706-1-ND	7.00	6.09	5.32	399-1706-2-ND	500	1274.00	T496X107M016AS
	2.2	±10	0.5	6.0	3.5	B	399-1707-1-ND	1.80	1.57	1.37	399-1707-2-ND	2,000	612.00/M	T496B225K020AS
	2.2	±20	0.5	6.0	3.5	B	399-1708-1-ND	1.65	1.44	1.26	399-1708-2-ND	2,000	561.00/M	T496B225M020AS
	6.8	±10	1.4	6.0	2.0	C	399-1709-1-ND	3.00	2.61	2.28	399-1709-2-ND	500	546.00	T496C685K020AS
	6.8	±20	1.4	6.0	2.0	C	399-1710-1-ND	2.75	2.40	2.09	399-1710-2-ND	500	500.50	T496C685M020AS
	10	±10	2.0	6.0	2.0	C	399-1711-1-ND	3.00	2.61	2.28	399-1711-2-ND	500	546.00	T496C106K020AS
	10	±20	2.0	6.0	2.0	C	399-1712-1-ND	2.75	2.40	2.09	399-1712-2-ND	500	500.50	T496C106M020AS
	22	±10	4.4	6.0	1.0	D	399-1713-1-ND	3.90	3.40	2.97	399-1713-2-ND	500	710.00	T496D226K020AS
	22	±20	4.4	6.0	1.0	D	399-1714-1-ND	3.75	3.27	2.85	399-1714-2-ND	500	682.50	T496D226M020AS
	33	±10	6.6	6.0	0.9	X	399-1715-1-ND	7.00	6.09	5.32	399-1715-2-ND	500	1274.00	T496X336K020AS
	33	±20	6.6	6.0	0.9	X	399-1716-1-ND	6.50	5.66	4.94	399-1716-2-ND	500	1183.00	T496X336M020AS
25	4.7	±10	1.2	6.0	2.5	C	399-1717-1-ND	3.00	2.61	2.28	399-1717-2-ND	500	546.00	T496C475K025AS
	4.7	±20	1.2	6.0	2.5	C	399-1718-1-ND	2.75	2.40	2.09	399-1718-2-ND	500	500.50	T496C475M025AS
	10	±10	2.5	6.0	1.2	D	399-1719-1-ND	3.90	3.40	2.97	399-1719-2-ND	500	710.00	T496D106K025AS
	10	±20	2.5	6.0	1.2	D	399-1720-1-ND	3.75	3.27	2.85	399-1720-2-ND	500	682.50	T496D106M025AS
	22	±10	5.5	6.0	0.8	D	399-1721-1-ND	3.90	3.40	2.97	399-1721-2-ND	500	710.00	T496D226K025AS
	22	±20	5.5	6.0	0.8	D	399-1722-1-ND	3.75	3.27	2.85	399-1722-2-ND	500	682.50	T496D226M025AS
	22	±10	5.5	6.0	0.9	X	399-1723-1-ND	7.00	6.09	5.32	399-1723-2-ND	500	1274.00	T496X226K025AS
	22	±20	5.5	6.0	0.9	X	399-1724-1-ND	6.50	5.66	4.94	399-1724-2-ND	500	1183.00	T496X226M025AS
35	1.0	±10	0.5	4.0	5.0	B	399-1725-1-ND	1.80	1.57	1.37	399-1725-2-ND	2,000	612.00/M	T496B105K035AS
	1.0	±20	0.5	4.0	5.0	B	399-1726-1-ND	1.65	1.44	1.26	399-1726-2-ND	2,000	561.00/M	T496B105M035AS
	2.2	±10	0.8	6.0	3.5	C	399-1727-1-ND	3.00	2.61	2.28	399-1727-2-ND	500	546.00	T496C225K035AS
	2.2	±20	0.8	6.0	3.5	C	399-1728-1-ND	2.75	2.40	2.09	399-1728-2-ND	500	500.50	T496C225M035AS
	4.7	±10	1.7	6.0	1.5	D	399-1729-1-ND	3.90	3.40	2.97	399-1729-2-ND	500	710.00	T496D475K035AS
	4.7	±20	1.7	6.0	1.5	D	399-1730-1-ND	3.75	3.27	2.85	399-1730-2-ND	500	682.50	T496D475M035AS
	6.8	±10	2.4	6.0	1.3	D	399-1731-1-ND	3.90	3.40	2.97	399-1731-2-ND	500	710.00	T496D685K035AS
	6.8	±20	2.4	6.0	1.3	D	399-1732-1-ND	3.75	3.27	2.85	399-1732-2-ND	500	682.50	T496D685M035AS
	10	±10	3.5	6.0	1.0	X	399-1733-1-ND	7.00	6.09	5.32	399-1733-2-ND	500	1274.00	T496X106K035AS
	10	±20	3.5	6.0	1.0	X	399-1734-1-ND	6.50	5.66	4.94	399-1734-2-ND	500	1183.00	T496X106M035AS
	15	±10	5.3	6.0	0.9	X	399-1735-1-ND	7.50	6.53	5.70	399-1735-2-ND	500	1365.00	T496X156K035AS
	15	±20	5.3	6.0	0.9	X	399-1736-1-ND	7.00	6.09	5.32	399-1736-2-ND	500	1274.00	T496X156M035AS
50	1.0	±10	0.5	4.0	5.5	C	399-1737-1-ND	3.38	2.94	2.57	399-1737-2-ND	500	614.50	T496C105K050AS
	1.0	±20	0.5	4.0	5.5	C	399-1738-1-ND	3.30	2.88	2.51	399-1738-2-ND	500	600.50	T496C105M050AS
	4.7	±10	2.4	6.0	1.5	X	399-1739-1-ND	8.00	6.96	6.08	399-1739-2-ND	500	1456.00	T496X475K050AS
	4.7	±20	2.4	6.0	1.5	X	399-1740-1-ND	7.50	6.53	5.70	399-1740-2-ND	500	1365.00	T496X475M050AS
T510 Series — Ultra-Low ESR														
4	680	±10	27.2	6.0	0.030	X	399-1749-1-ND	14.75	12.84	11.21	399-1749-2-ND	500	2684.50	T510X687K004AS
	680	±20	27.2	6.0	0.030	X	399-1750-1-ND	14.00	12.18	10.64	399-1750-2-ND	500	2548.00	T510X687M004AS
	1000	±10	40.0	6.0	0.018	E	399-1741-1-ND	18.00	15.66	13.68	399-1741-2-ND	500	3276.00	T510E108K004AS
	1000	±10	40.0	6.0	0.010	E	399-1742-1-ND	18.50	16.10	14.06	399-1742-2-ND	500	3367.00	T510E108K004AS4115*
	1000	±20	40.0	6.0	0.018	E	399-1743-1-ND	16.75	14.58	12.73	399-1743-2-ND	500	3048.50	T510E108M004AS
	1000	±20	40.0	6.0	0.010	E	399-1744-1-ND	17.25	15.01	13.11	399-1744-2-ND	500	3139.50	T510E108M004AS4115*
6.3	470	±10	28.2	6.0	0.030	X	399-1751-1-ND	14.75	12.84	11.21	399-1751-2-ND	500	2684.50	T510X477K006AS
	470	±20	28.2	6.0	0.030	X	399-1752-1-ND	14.00	12.18	10.64	399-1752-2-ND	500	2548.00	T510X477M006AS

* Lower ESR Rated Part. NOTE: Parts with improved tolerances or voltages may be subsituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA@+25°C Max.	DF % @+25°C 120Hz Max.	ESR Ω @+25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
6.3	680	±10	40.8	6.0	0.023	E	399-1745-1-ND	18.00	15.66	13.68	399-1745-2-ND	500	3276.00	T510E687K006AS
	680	±10	40.8	6.0	0.012	E	399-1746-1-ND	18.50	16.10	14.06	399-1746-2-ND	500	3367.00	T510E687K006AS4115*
	680	±20	40.8	6.0	0.023	E	399-1747-1-ND	16.75	14.58	12.73	399-1747-2-ND	500	3048.50	T510E687M006AS
	680	±20	40.8	6.0	0.012	E	399-1748-1-ND	16.75	14.58	12.73	399-1748-2-ND	500	3139.50	T510E687M006AS4115*
10	330	±10	33.0	6.0	0.035	X	399-1753-1-ND	14.75	12.84	11.21	399-1753-2-ND	500	2684.50	T510X337K010AS
	330	±20	33.0	6.0	0.035	X	399-1754-1-ND	14.00	12.18	10.64	399-1754-2-ND	500	2548.00	T510X337M010AS
T520 Series — KO-CAP Polymer Tantalum														
3	100	±20	30.0	8.0	0.070	B	399-3059-1-ND	1.10	.96	.84	399-3059-2-ND	2,000	374.00/M	T520B107M003ASE070
4	68	±20	27.2	8.0	0.070	B	399-3060-1-ND	1.10	.96	.84	399-3060-2-ND	2,000	374.00/M	T520B686M004ASE070
	220	±20	88	10.0	0.045	V	399-1755-1-ND	4.25	3.70	3.23	399-1755-2-ND	1,000	1445.00	T520V227M004ASE045
	220	±20	88	10.0	0.030	V	399-1756-1-ND	4.25	3.70	3.23	399-1756-2-ND	1,000	1445.00	T520V227M004ASE025*
	470	±20	188	10.0	0.040	D	399-1757-1-ND	5.00	4.35	3.80	399-1757-2-ND	500	910.00	T520D477M004ASE040
6.3	47	±20	29.6	8.0	0.070	B	399-3061-1-ND	1.10	.96	.84	399-3061-2-ND	2,000	374.00/M	T520B476M006ASE070
	150	±20	95	10.0	0.045	V	399-1758-1-ND	4.25	3.70	3.23	399-1758-2-ND	1,000	1445.00	T520V157M006ASE045
	150	±20	95	10.0	0.055	D	399-1759-1-ND	3.50	3.05	2.66	399-1759-2-ND	500	637.00	T520D157M006ASE055
	220	±20	139	10.0	0.050	D	399-1760-1-ND	4.00	3.48	3.04	399-1760-2-ND	500	728.00	T520D227M006ASE050
	220	±20	88	10.0	0.040	D	399-1761-1-ND	4.00	3.48	3.04	399-1761-2-ND	500	728.00	T520D227M006ASE040*
	330	±20	208	10.0	0.025	D	399-3101-1-ND	4.28	4.14	3.61	—	—	—	T520D337M006AS4351
	330	±20	208	10.0	0.045	D	399-1762-1-ND	4.75	4.14	3.61	399-1762-2-ND	500	864.50	T520D337M006ASE045
	330	±20	132	10.0	0.040	D	399-1763-1-ND	4.75	4.14	3.61	399-1763-2-ND	500	864.50	T520D337M006ASE040*
	470	±20	296	10.0	0.040	X	399-1764-1-ND	12.75	11.10	9.69	399-1764-2-ND	500	2320.50	T520X477M006ASE040
	470	±20	296	10.0	0.035	X	399-1765-1-ND	12.75	11.10	9.69	399-1765-2-ND	500	2320.50	T520X477M006ASE035*
10	68	±20	68	10.0	0.060	V	399-1766-1-ND	3.75	3.27	2.85	399-1766-2-ND	1,000	1275.00	T520V686M010ASE060
	100	±20	100	10.0	0.080	D	399-1767-1-ND	4.00	3.48	3.04	399-1767-2-ND	500	728.00	T520D107M010ASE080
	100	±20	100	10.0	0.055	D	399-1768-1-ND	4.00	3.48	3.04	399-1768-2-ND	500	728.00	T520D107M010ASE055*
	150	±20	150	10.0	0.055	D	399-1769-1-ND	4.25	3.70	3.23	399-1769-2-ND	500	773.50	T520D157M010ASE055
	150	±20	150	10.0	0.040	D	399-1770-1-ND	4.25	3.70	3.23	399-1770-2-ND	500	773.50	T520D157M010ASE040*
	330	±20	330	10.0	0.040	X	399-1771-1-ND	12.50	10.88	9.50	399-1771-2-ND	500	2275.00	T520X337M010ASE040
16	47	±20	75	10.0	0.070	D	399-3102-1-ND	2.93	2.83	2.47	399-3102-2-ND	500	591.50	T520D476M016ASE070
T530 Series — KO-MAT Polymer Tantalum														
3	1000	±20	300	8.0	0.010	X	399-3062-1-ND	11.75	10.23	8.93	399-3062-2-ND	500	2138.50	T530X108M003ASE010
4	680	±20	272	8.0	0.010	X	399-3063-1-ND	11.75	10.23	8.93	399-3063-2-ND	500	2138.50	T530X687M004ASE010
6.3	470	±20	382	8.0	0.012	X	399-3064-1-ND	11.75	10.23	8.93	399-3064-2-ND	500	2138.50	T530X477M006ASE010
10	330	±20	330	8.0	0.015	X	399-3065-1-ND	11.75	10.23	8.93	399-3065-2-ND	500	2138.50	T530X337M010ASE010

* Lower ESR rated part.

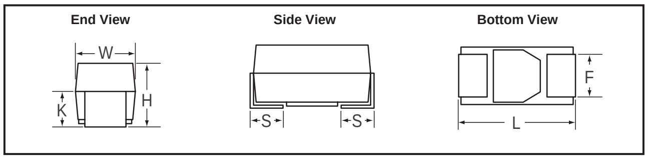
A700 Series AO-CAP Aluminum Organic Capacitors

KEMET's AO-CAP, designated the A700 Series, has been targeted for power management applications. The structure of the AO-CAP uses aluminum as the anode material, aluminum oxide as the dielectric, and a conductive organic polymer for its counter-electrode material. The AO-CAP offers many advantages:

- Extremely low ESR
- High capacitance retention for superior performance at high operating frequencies
- No voltage derating up to 125°C
- Robust to the surface-mount process
- No dry-out-related failure mechanism
- Pb free

The A700 Series has a molded case and wraparound terminations. This provides strong protection against cracks (flex) making it an ideal alternative to high-capacitance ceramics, and also offers true surface-mountable solutions to the existing aluminum organic capacitors found in the industry. The high-frequency performance of the AO-CAP can reduce component counts, which allows the designer to save board space and offers a more cost-effective solution.

Please note that the AO-CAP is introduced as a totally lead (Pb)-free device. The AO-CAP has excellent surge current performance and long-term reliability. There is no recommended derating of application voltage to reduce failure rate. **Operating Temperature:** -55°C to +125°C. The approximate capacitance shift over the temperature range for -55°C is -15%, and for +125°C is +15%. **Capacitance Tolerance:** ±20%



Case Size Kemet	EIA	L	W	H	K Min.	F ±0.1	S ±0.2
V	7343-20	7.3 ± 0.3	4.3 ± 0.3	1.9 ± 0.1	1.1	2.4	1.3
D	7343-31	7.3 ± 0.3	4.3 ± 0.3	2.8 ± 0.3	1.3	2.4	1.3
X	7343-43	7.3 ± 0.3	4.3 ± 0.3	4.0 ± 0.3	2.1	2.4	1.3

WV (DC)	Cap (µF)	Size Code	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Ripple Current A rms 100KHz, at Max ESR 25°C to 105°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
2	100	V	12.0	6%	0.028	2.1	399-3030-1-ND	1.98	1.86	1.61	399-3030-2-ND	1,000	990.00	A700V107M002ATE028
	150	V	18.0	6%	0.028	2.1	399-3031-1-ND	1.98	1.86	1.61	399-3031-2-ND	1,000	990.00	A700V157M002ATE028
	180	D	21.6	6%	0.018	2.9	399-3032-1-ND	2.98	2.80	2.43	399-3032-2-ND	500	745.00	A700D187M002ATE018
	220	D	26.4	6%	0.018	2.9	399-3033-1-ND	2.98	2.80	2.43	399-3033-2-ND	500	745.00	A700D227M002ATE018
	220	D	26.4	6%	0.015	3.2	399-3034-1-ND	3.18	2.99	2.59	399-3034-2-ND	500	795.00	A700D227M002ATE015
	220	D	26.4	6%	0.012	3.5	399-3035-1-ND	3.38	3.17	2.75	399-3035-2-ND	500	845.00	A700D227M002ATE012
	270	X	26.4	6%	0.015	3.2	399-3036-1-ND	4.00	3.75	3.25	399-3036-2-ND	500	1000.00	A700X277M002ATE015
	330	X	39.6	6%	0.015	3.3	399-3037-1-ND	4.00	3.75	3.25	399-3037-2-ND	500	1000.00	A700X337M002ATE015
	390	X	46.8	6%	0.015	3.3	399-3038-1-ND	4.00	3.75	3.25	399-3038-2-ND	500	1000.00	A700X397M002ATE015
	390	X	46.8	6%	0.010	4.1	399-3039-1-ND	4.20	3.94	3.42	399-3039-2-ND	500	1050.00	A700X397M002ATE010
	470	X	56.4	6%	0.008	4.5	399-3040-1-ND	4.00	3.75	3.25	399-3040-2-ND	500	1000.00	A700X477M002ATE015
2.5	82	V	12.3	6%	0.028	2.1	399-3041-1-ND	2.38	2.24	1.94	—	—	—	A700V826M004AT6003
	150	D	22.5	6%	0.018	2.9	399-3042-1-ND	2.98	2.80	2.43	—	—	—	A700D157M004AT6003
	220	X	33.0	6%	0.015	3.3	399-3043-1-ND	4.00	3.75	3.25	—	—	—	A700X227M004AT6003
4	82	V	19.7	6%	0.028	2.1	399-3044-1-ND	1.98	1.86	1.61	399-3044-2-ND	1,000	990.00	A700V826M004ATE028
	120	D	28.8	6%	0.018	2.9	399-3045-1-ND	2.98	2.80	2.43	399-3045-2-ND	500	745.00	A700D127M004ATE018
	150	D	36.0	6%	0.018	2.9	399-3046-1-ND	2.98	2.80	2.43	399-3046-2-ND	500	745.00	A700D157M004ATE018
	180	X	43.2	6%	0.015	3.3	399-3047-1-ND	4.00	3.75	3.25	399-3047-2-ND	500	1000.00	A700X187M004ATE015
	220	X	52.8	6%	0.015	3.3	399-3048-1-ND	4.00	3.75	3.25	399-3048-2-ND	500	1000.00	A700X227M004ATE015
	270	X	64.8	6%	0.015	3.3	399-3049-1-ND	4.00	3.75	3.25	399-3049-2-ND	500	1000.00	A700X277M004ATE015
6.3	33	V	8.3	6%	0.028	2.1	399-3050-1-ND	1.98	1.86	1.61	399-3050-2-ND	1,000	990.00	A700V336M006ATE028
	47	V	11.8	6%	0.028	2.1	399-3051-1-ND	1.98	1.86	1.61	399-3051-2-ND	1,000	990.00	A700V476M006ATE028
	56	V	14.1	6%	0.028	2.1	399-3052-1-ND	1.98	1.86	1.61	399-3052-2-ND	1,000	990.00	A700V566M006ATE028
	68	V	17.1	6%	0.028	2.1	399-3053-1-ND	1.98	1.86	1.61	399-3053-2-ND	1,000	990.00	A700V686M006ATE028
	100	D	25.2	6%	0.018	2.9	399-3054-1-ND	2.98	2.80	2.43	399-3054-2-ND	500	745.00	A700D107M006ATE018
	150	X	37.8	6%	0.015	3.3	399-3055-1-ND	4.00	3.75	3.25	399-3055-2-ND	500	1000.00	A700X157M006ATE015
	180	X	43.2	6%	0.015	3.3	399-3056-1-ND	4.00	3.75	3.25	399-3056-2-ND	500	1000.00	A700X187M006ATE015
8	33	V	10.6	6%	0.028	2.1	399-3057-1-ND	1.98	1.86	1.61	399-3057-2-ND	1,000	990.00	A700V336M008ATE028
10	33	V	13.2	6%	0.028	2.1	399-3058-1-ND	1.98	1.86	1.61	399-3058-2-ND	1,000	990.00	A700V336M010ATE028

NOTE: Parts with improved tolerances or voltages may be subsituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

Panasonic® B-Series Polyester Capacitors

PANASONIC ECQ-B CROSS REFERENCE:

Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TRW:** 601PE, 601CPE; **Packtron:** PE, FM; **Secor:** MFDW, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1898; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissei:** AMZ, AMX, AMR, AMM.

SPECIFICATIONS:

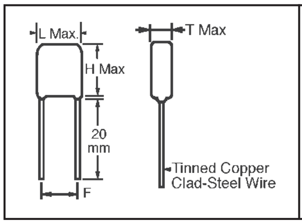
• **Operating Temp. Range:** -40° ~ +85°C • **Rated Voltage:** DC 50V, 100V, 200V • **Capacitance Range:** .0001 ~ 0.47µF • **Capacitance Tolerance:** ±5% (J), ±10% (K) • **Dissipation Factor:** 1.0% (20°C, 1kHz) • **Withstand Voltage:** Between Terminals: rated voltage(V, DC) x 250% 1 ~ 5 sec. • **Insulation Resistance:** C ≤0.33µF: 30000MΩ min. (20°C, 50VDC 60s: ECQB1H(F), C>0.33µF: 10000MΩ·µF min. (20°C, 100VDC 60s: ECQB1(F), ECQB2(F) • **Construction:** Polyester film, non-inductive, epoxy coating.

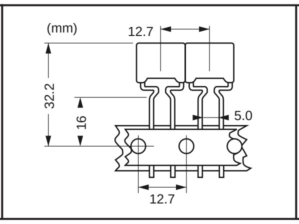
FEATURES:

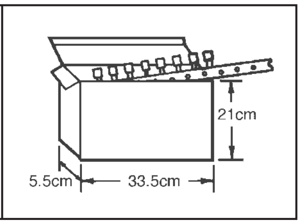
High volumetric efficiency; non-inductive construction; low-loss, high stability; and epoxy resin coating.

APPLICATIONS:

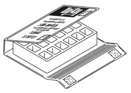
Blocking, by-pass and coupling of DC and signal to VHF range; pulse, logic and timing circuits; light duty pulse forming networks; filter & noise suppression circuits; and general purpose usage.







Panasonic Polyester Capacitors



Digi-Key® B-Series Kit

300 capacitors in all.

P4550-KIT-ND . . . $29.95

Includes those parts listed below (*).

P4551-ND . . 80 pc.
P4552-ND . . 10 pc.
P4553-ND . . 20 pc.
P4554-ND . . 20 pc.
P4555-ND . . 30 pc.
P4556-ND . . 10 pc.
P4557-ND . . 20 pc.
P4558-ND . . 20 pc.
P4559-ND . . 30 pc.
P4560-ND . . 10 pc.
P4561-ND . . 30 pc.
P4562-ND . . 20 pc.

Volts	Cap. µF	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
			L	T	H	F		10	100	1,000	5,000	10,000	
50WV (Bulk Pkg.)	.0001	±10%	7.0	3.0	6.0	5.0	P4570-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H101KF
	.00012	±10%	7.0	3.0	6.0	5.0	P4571-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H121KF
	.00015	±10%	7.0	3.0	6.0	5.0	P4572-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H151KF
	.00018	±10%	7.0	3.0	6.0	5.0	P4573-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H181KF
	.00022	±10%	7.0	3.0	6.0	5.0	P4574-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H221KF
	.00027	±10%	7.0	3.0	6.0	5.0	P4575-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H271KF
	.00033	±10%	7.0	3.0	6.0	5.0	P4576-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H331KF
	.00039	±10%	7.0	3.0	6.0	5.0	P4577-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H391KF
	.00047	±5%	7.0	3.0	6.0	5.0	P4578-ND	.84	5.60	44.00	42.00/M	38.00/M	ECQ-B1H471JF
	.00056	±5%	7.0	3.0	6.0	5.0	P4579-ND	.84	5.60	44.00	42.00/M	38.00/M	ECQ-B1H561JF
	.00068	±5%	7.0	3.0	6.0	5.0	P4580-ND	.84	5.60	44.00	42.00/M	38.00/M	ECQ-B1H681JF
	.00082	±5%	7.0	3.0	6.0	5.0	P4581-ND	.84	5.60	44.00	42.00/M	38.00/M	ECQ-B1H821JF
	.001	±5%	7.0	3.0	6.0	5.0	P4551-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H102JF
	.0012	±5%	7.0	3.0	6.0	5.0	P4552-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H122JF
	.0015	±5%	7.0	3.0	6.0	5.0	P4553-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H152JF
	.0018	±5%	7.0	3.0	6.0	5.0	P4554-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H182JF
	.0022	±5%	7.0	3.0	6.0	5.0	P4555-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H222JF
	.0027	±5%	7.0	3.0	6.0	5.0	P4556-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H272JF
	.0033	±5%	7.0	3.0	6.0	5.0	P4557-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H332JF
	.0039	±5%	7.0	3.0	6.0	5.0	P4558-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H392JF
	.0047	±5%	7.0	3.0	6.0	5.0	P4559-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H472JF
	.0056	±5%	7.0	3.0	6.0	5.0	P4560-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H562JF
	.0068	±5%	7.0	3.0	6.0	5.0	P4561-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H682JF
	.0082	±5%	7.0	3.0	6.0	5.0	P4562-ND*	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H822JF
	.01	±5%	7.0	3.0	6.0	5.0	P4582-ND	.84	5.60	44.00	42.00/M	38.00/M	ECQ-B1H103JF
	.012	±5%	7.3	3.3	6.3	5.0	P4583-ND	.84	5.60	44.00	42.00/M	38.00/M	ECQ-B1H123JF
	.015	±5%	7.5	3.0	6.0	5.0	P4584-ND	.90	6.00	47.00	45.00/M	41.00/M	ECQ-B1H153JF
	.018	±5%	7.5	3.0	6.0	5.0	P4585-ND	.93	6.20	48.00	47.00/M	42.00/M	ECQ-B1H183JF
	.022	±5%	7.5	3.0	6.0	5.0	P4586-ND	.93	6.20	48.00	47.00/M	42.00/M	ECQ-B1H223JF
	.027	±5%	7.5	3.5	6.5	5.0	P4587-ND	.96	6.40	50.00	48.00/M	44.00/M	ECQ-B1H273JF
	.033	±5%	7.5	3.5	6.5	5.0	P4569-ND	.99	6.60	52.00	50.00/M	45.00/M	ECQ-B1H333JF
	.039	±5%	7.5	3.5	6.5	5.0	P4588-ND	1.02	6.80	53.00	51.00/M	47.00/M	ECQ-B1H393JF
	.047	±5%	7.5	4.0	7.0	5.0	P4589-ND	1.08	7.20	56.00	54.00/M	49.00/M	ECQ-B1H473JF
	.056	±5%	8.0	4.0	7.5	5.0	P4590-ND	1.11	7.40	58.00	56.00/M	51.00/M	ECQ-B1H563JF
	.068	±5%	8.0	4.3	8.5	5.0	P4591-ND	1.29	8.60	67.00	65.00/M	59.00/M	ECQ-B1H683JF
	.082	±5%	8.0	4.5	9.0	5.0	P4592-ND	1.38	9.20	72.00	69.00/M	63.00/M	ECQ-B1H823JF
	.1	±5%	8.0	5.0	10.0	5.0	P4593-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1H104JF
	.12	±5%	11.0	5.0	11.6	7.5	P4594-ND	3.15	21.00	164.00	159.00/M	144.00/M	ECQ-B1H124JF
	.15	±5%	11.0	5.0	12.0	7.5	P4595-ND	3.39	22.60	177.00	171.00/M	155.00/M	ECQ-B1H154JF
	.18	±5%	11.0	5.5	12.4	7.5	P4596-ND	3.54	23.60	184.00	178.00/M	162.00/M	ECQ-B1H184JF
	.22	±5%	11.0	6.0	13.0	7.5	P4597-ND	3.96	26.40	206.00	199.00/M	181.00/M	ECQ-B1H224JF
	.27	±5%	13.0	6.0	14.4	10.0	P4598-ND	4.95	33.00	258.00	249.00/M	226.00/M	ECQ-B1H274JF
	.33	±5%	13.0	6.5	15.0	10.0	P4599-ND	5.34	35.60	278.00	269.00/M	244.00/M	ECQ-B1H334JF
	.39	±5%	13.0	7.0	15.4	10.0	P4734-ND	5.76	38.40	300.00	290.00/M	263.00/M	ECQ-B1H394JF
	.47	±5%	13.0	7.5	16.2	10.0	P4735-ND	6.33	42.20	330.00	319.00/M	289.00/M	ECQ-B1H474JF
100WV (Bulk Pkg.)	.0001	±5%	7.2	3.0	6.0	5.0	P4773-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1101JF
	.00012	±5%	7.2	3.0	6.0	5.0	P4774-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1121JF
	.00015	±5%	7.2	3.0	6.0	5.0	P4775-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1151JF
	.00018	±5%	7.2	3.0	6.0	5.0	P4776-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1181JF
	.00022	±5%	7.2	3.0	6.0	5.0	P4777-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1221JF
	.00027	±5%	7.2	3.0	6.0	5.0	P4778-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1271JF
	.00033	±5%	7.2	3.0	6.0	5.0	P4779-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1331JF
	.00039	±5%	7.2	3.0	6.0	5.0	P4780-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1391JF
	.00047	±5%	7.2	3.0	6.0	5.0	P4781-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1471JF
	.00056	±5%	7.2	3.0	6.0	5.0	P4782-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1561JF
	.00068	±5%	7.2	3.0	6.0	5.0	P4783-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1681JF
	.00082	±5%	7.2	3.0	6.0	5.0	P4784-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1821JF
	.001	±5%	7.2	3.0	6.0	5.0	P4785-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1102JF
	.0012	±5%	7.2	3.0	6.0	5.0	P4786-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1122JF
	.0015	±5%	7.2	3.0	6.0	5.0	P4787-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1152JF
	.0018	±5%	7.2	3.0	6.5	5.0	P4788-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1182JF
	.0022	±5%	7.2	3.0	6.5	5.0	P4789-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1222JF
	.0027	±5%	7.2	3.0	6.5	5.0	P4790-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1272JF
	.0033	±5%	7.2	3.0	6.5	5.0	P4791-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1332JF
	.0039	±5%	7.2	3.0	6.5	5.0	P4792-ND	1.80	12.00	94.00	91.00/M	82.00/M	ECQ-B1392JF
	.0047	±5%	7.2	3.0	6.5	5.0	P4793-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1472JF
	.0056	±5%	7.2	3.0	6.5	5.0	P4794-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1562JF
	.0068	±5%	7.2	3.0	6.5	5.0	P4795-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1682JF
	.0082	±5%	7.2	3.2	7.0	5.0	P4796-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1822JF
	.01	±5%	7.2	3.2	7.0	5.0	P4797-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1103JF

(Continued)

Panasonic® B-Series Polyester Capacitors *(Cont.)*

Volts	Cap. µF	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
			L	T	H	F		10	100	1,000	5,000	10,000	
100WV (Bulk Pkg.)	.012	±5%	7.2	3.5	7.0	5.0	P4798-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1123JF
	.015	±5%	7.2	4.0	7.5	5.0	P4799-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1153JF
	.018	±5%	7.5	4.5	8.0	5.0	P4647-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1183JF
	.022	±5%	7.5	4.5	9.0	5.0	P4648-ND	1.83	12.20	95.00	92.00/M	84.00/M	ECQ-B1223JF
	.027	±5%	7.5	5.0	9.5	5.0	P4649-ND	1.92	12.80	100.00	97.00/M	88.00/M	ECQ-B1273JF
	.033	±5%	7.5	5.5	10.0	5.0	P4650-ND	2.10	14.00	109.00	106.00/M	96.00/M	ECQ-B1333JF
	.039	±5%	7.5	6.0	11.2	5.0	P4651-ND	2.22	14.80	116.00	112.00/M	101.00/M	ECQ-B1393JF
	.047	±5%	7.5	6.5	11.8	5.0	P4652-ND	2.34	15.60	122.00	118.00/M	107.00/M	ECQ-B1473JF
	.056	±5%	10.0	5.0	12.0	7.5	P4653-ND	2.52	16.80	131.00	127.00/M	115.00/M	ECQ-B1563JF
	.068	±5%	10.0	5.5	12.4	7.5	P4654-ND	2.70	18.00	141.00	136.00/M	123.00/M	ECQ-B1683JF
	.082	±5%	10.0	5.5	14.0	7.5	P4655-ND	2.94	19.60	153.00	148.00/M	134.00/M	ECQ-B1823JF
	.1	±5%	10.5	6.0	14.6	7.5	P4656-ND	3.12	20.80	163.00	157.00/M	142.00/M	ECQ-B1104JF
	.12	±5%	10.5	7.0	15.2	7.5	P4657-ND	3.75	25.00	195.00	189.00/M	171.00/M	ECQ-B1124JF
	.15	±5%	13.0	7.0	13.8	10.0	P4658-ND	4.35	29.00	227.00	219.00/M	199.00/M	ECQ-B1154JF
	.18	±5%	13.0	7.5	14.4	10.0	P4659-ND	5.04	33.60	263.00	254.00/M	230.00/M	ECQ-B1184JF
	.22	±5%	13.0	8.0	15.2	10.0	P4660-ND	5.67	37.80	295.00	285.00/M	259.00/M	ECQ-B1224JF
	.27	±5%	13.0	8.5	17.2	10.0	P4661-ND	6.33	42.20	330.00	319.00/M	289.00/M	ECQ-B1274JF
	.33	±5%	13.0	9.0	18.0	10.0	P4662-ND	6.99	46.60	364.00	352.00/M	319.00/M	ECQ-B1334JF
	.39	±5%	13.0	10.5	19.0	10.0	P4663-ND	7.62	50.80	397.00	384.00/M	348.00/M	ECQ-B1394JF
	.47	±5%	13.0	11.5	19.2	10.0	P4664-ND	8.25	55.00	430.00	415.00/M	377.00/M	ECQ-B1474JF
200WV (Bulk Pkg.)	.001	±5%	8.5	4.0	7.0	5.0	P4537A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2102JF
	.0012	±5%	8.5	4.0	7.5	5.0	P4538A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2122JF
	.0015	±5%	8.5	4.0	7.5	5.0	P4539A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2152JF
	.0018	±5%	8.5	4.5	7.5	5.0	P4540A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2182JF
	.0022	±5%	8.5	4.5	7.5	5.0	P4541A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2222JF
	.0027	±5%	8.5	4.5	8.0	5.0	P4542A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2272JF
	.0033	±5%	11.0	4.5	7.5	7.5	P4543A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2332JF
	.0039	±5%	11.0	4.5	7.5	7.5	P4544A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2392JF
	.0047	±5%	11.0	4.5	8.5	7.5	P4545A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2472JF
	.0056	+5%	11.0	4.5	8.5	7.5	P4546A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2562JF
	.0068	±5%	11.0	4.5	9.0	7.5	P4547A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2682JF
	.0082	±5%	11.0	4.5	9.0	7.5	P4548A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2822JF
	.01	±5%	11.0	4.5	10.0	7.5	P4549A-ND	2.19	14.60	114.00	110.00/M	100.00/M	ECQ-B2103JF
	.012	±5%	11.0	5.0	10.5	7.5	P4550A-ND	2.22	14.80	116.00	112.00/M	101.00/M	ECQ-B2123JF
	.015	±5%	11.0	5.5	10.5	7.5	P4551A-ND	2.22	14.80	116.00	112.00/M	101.00/M	ECQ-B2153JF
	.018	±5%	11.0	5.5	12.2	7.5	P4552A-ND	2.31	15.40	120.00	116.00/M	105.00/M	ECQ-B2183JF
	.022	±5%	11.0	6.0	12.6	7.5	P4553A-ND	2.52	16.80	131.00	127.00/M	115.00/M	ECQ-B2223JF
	.027	±5%	11.0	6.5	13.2	7.5	P4554A-ND	2.58	17.20	134.00	130.00/M	118.00/M	ECQ-B2273JF
	.033	±5%	11.0	7.0	13.6	7.5	P4555A-ND	2.79	18.60	145.00	140.00/M	127.00/M	ECQ-B2333JF
	.039	±5%	13.5	5.0	14.4	10.0	P4556A-ND	2.88	19.20	150.00	145.00/M	132.00/M	ECQ-B2393JF
	.047	±5%	13.5	5.5	14.8	10.0	P4557A-ND	2.94	19.60	153.00	148.00/M	134.00/M	ECQ-B2473JF
	.056	±5%	13.5	6.0	15.4	10.0	P4558A-ND	3.15	21.00	164.00	159.00/M	144.00/M	ECQ-B2563JF
	.068	±5%	16.0	5.5	15.0	12.5	P4559A-ND	3.30	22.00	172.00	166.00/M	151.00/M	ECQ-B2683JF
	.082	±5%	16.0	6.0	15.4	12.5	P4560A-ND	3.51	23.40	183.00	177.00/M	160.00/M	ECQ-B2823JF
	.1	±5%	16.0	7.0	16.0	12.5	P4561A-ND	4.14	27.60	216.00	208.00/M	189.00/M	ECQ-B2104JF
	.12	±5%	19.0	6.5	17.6	15.0	P4562A-ND	4.98	33.20	259.00	251.00/M	227.00/M	ECQ-B2124JF
	.15	±5%	19.0	7.5	18.4	15.0	P4563A-ND	5.82	38.80	303.00	293.00/M	266.00/M	ECQ-B2154JF
	.18	±5%	19.0	8.0	19.0	15.0	P4564A-ND	7.14	47.60	372.00	359.00/M	326.00/M	ECQ-B2184JF
	.22	±5%	19.0	9.0	20.0	15.0	P4565A-ND	7.86	52.40	409.00	396.00/M	359.00/M	ECQ-B2224JF
	.27	±5%	24.0	8.0	19.4	20.0	P4566A-ND	8.94	59.60	466.00	450.00/M	408.00/M	ECQ-B2274JF
	.33	±5%	24.0	9.0	20.4	20.0	P4567A-ND	11.13	74.20	580.00	560.00/M	508.00/M	ECQ-B2334JF
	.39	±5%	24.0	10.0	21.2	20.0	P4568A-ND	12.42	82.80	647.00	625.00/M	567.00/M	ECQ-B2394JF
	.47	±5%	24.0	11.5	22.2	20.0	P4569A-ND	14.13	94.20	736.00	711.00/M	645.00/M	ECQ-B2474JF

Volts	Cap. µF	Tolerance	Dimensions (mm)				Digi-Key Part No.	Tape & Box Pricing								Panasonic Part No.
			L	T	H	F		500	1,000	2,000	5,000	6,000	10,000	25,000	26,000	
50WV (Ammo Box Pkg.)	.0001	±10%	7.0	3.0	6.0	5.0	P4570TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H101KF3
	.00012	±10%	7.0	3.0	6.0	5.0	P4571TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H121KF3
	.00015	±10%	7.0	3.0	6.0	5.0	P4572TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H151KF3
	.00018	±10%	7.0	3.0	6.0	5.0	P4573TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H181KF3
	.00022	±10%	7.0	3.0	6.0	5.0	P4574TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H221KF3
	.00027	±10%	7.0	3.0	6.0	5.0	P4575TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H271KF3
	.00033	±10%	7.0	3.0	6.0	5.0	P4576TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H331KF3
	.00039	±10%	7.0	3.0	6.0	5.0	P4577TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H391KF3
	.00047	±5%	7.0	3.0	6.0	5.0	P4578TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H471JF3
	.00056	±5%	7.0	3.0	6.0	5.0	P4579TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H561JF3
	.00068	±5%	7.0	3.0	6.0	5.0	P4580TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H681JF3
	.00082	±5%	7.0	3.0	6.0	5.0	P4581TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H821JF3
	.001	±5%	7.0	3.0	6.0	5.0	P4551TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H102JF3
	.0012	±5%	7.0	3.0	6.0	5.0	P4552TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H122JF3
	.0015	±5%	7.0	3.0	6.0	5.0	P4553TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H152JF3
	.0018	±5%	7.0	3.0	6.0	5.0	P4554TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H182JF3
	.0022	±5%	7.0	3.0	6.0	5.0	P4555TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H222JF3
	.0027	±5%	7.0	3.0	6.0	5.0	P4556TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H272JF3
	.0033	±5%	7.0	3.0	6.0	5.0	P4557TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H332JF3
	.0039	±5%	7.0	3.0	6.0	5.0	P4558TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H392JF3
	.0047	±5%	7.0	3.0	6.0	5.0	P4559TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H472JF3
	.0056	±5%	7.0	3.0	6.0	5.0	P4560TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H562JF3
	.0068	±5%	7.0	3.0	6.0	5.0	P4561TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H682JF3
	.0082	±5%	7.0	3.0	6.0	5.0	P4562TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H822JF3
	.01	±5%	7.0	3.0	6.0	5.0	P4582TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H103JF3
	.012	±5%	7.3	3.3	6.3	5.0	P4583TB-ND	—	—	45.00/M	—	44.00/M	40.00/M	—	35.00/M	ECQ-B1H123JF3
	.015	±5%	7.5	3.0	6.0	5.0	P4584TB-ND	—	—	47.00/M	—	45.00/M	41.00/M	—	36.00/M	ECQ-B1H153JF3
	.018	±5%	7.5	3.0	6.0	5.0	P4585TB-ND	—	—	48.00/M	—	47.00/M	42.00/M	—	38.00/M	ECQ-B1H183JF3
	.022	±5%	7.5	3.0	6.0	5.0	P4586TB-ND	—	—	50.00/M	—	48.00/M	44.00/M	—	39.00/M	ECQ-B1H223JF3
	.027	±5%	7.5	3.5	6.5	5.0	P4587TB-ND	—	—	50.00/M	—	48.00/M	44.00/M	—	39.00/M	ECQ-B1H273JF3
	.033	±5%	7.5	3.5	6.5	5.0	P4569TB-ND	—	—	52.00/M	—	50.00/M	45.00/M	—	40.00/M	ECQ-B1H333JF3
	.039	±5%	7.5	4.0	7.0	5.0	P4588TB-ND	—	—	53.00/M	—	51.00/M	47.00/M	—	41.00/M	ECQ-B1H393JF3
	.047	±5%	7.5	4.0	7.5	5.0	P4589TB-ND	—	56.00	—	54.00/M	—	49.00/M	44.00/M	—	ECQ-B1H473JF3
	.056	±5%	8.0	4.3	7.5	5.0	P4590TB-ND	—	58.00	—	56.00/M	—	51.00/M	45.00/M	—	ECQ-B1H563JF3
	.068	±5%	8.0	4.3	8.5	5.0	P4591TB-ND	—	67.00	—	65.00/M	—	59.00/M	52.00/M	—	ECQ-B1H683JF3
	.082	±5%	8.0	4.5	9.0	5.0	P4592TB-ND	—	72.00	—	69.00/M	—	63.00/M	56.00/M	—	ECQ-B1H823JF3
	.1	±5%	8.0	5.0	10.0	5.0	P4593TB-ND	—	94.00	—	91.00/M	—	82.00/M	73.00/M	—	ECQ-B1H104JF3
	.12	±5%	11.0	5.0	11.6	5.0	P4594TB-ND	—	172.00	—	166.00/M	—	151.00/M	133.00/M	—	ECQ-B1H124JF3
	.15	±5%	11.0	5.0	12.0	5.0	P4595TB-ND	—	184.00	—	178.00/M	—	162.00/M	143.00/M	—	ECQ-B1H154JF3
	.18	±5%	11.0	5.5	12.4	5.0	P4596TB-ND	97.50	—	—	189.00/M	—	171.00/M	151.00/M	—	ECQ-B1H184JF3
	.22	±5%	11.0	6.0	13.0	5.0	P4597TB-ND	—	214.00	—	207.00/M	—	188.00/M	166.00/M	—	ECQ-B1H224JF3

Panasonic® V-Series ±5% Stacked Metallized Film Capacitors

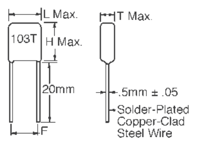
Suitable for Replacement of Monolithic Ceramic Capacitors in Most Cases

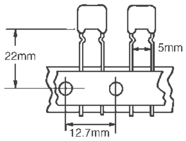
FEATURES: • High volumetric efficiency • Low dissipation factor • Stacked and non-inductive construction • Operating temperature range: –40°C to +85°C • Temperature coefficientΔc/c: 200 ppm • Dissipation factor (max.): 1.0% • Insulation resistance (25°C): 1000MΩ µF • Self-healing

APPLICATIONS: • Blocking, by-pass and coupling of DC • Pulse, logic and timing circuits • Light duty pulse forming • Filter and noise suppression

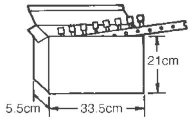
PANASONIC ECQ-V CROSS REFERENCE
Sprague: 453P/454P. **CSF Thompson:** IRD. **Siemens:** B32509.

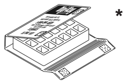
(To convert millimeters to inches divide by 25.4.)





* All taped parts have 5mm lead space.





*** Panasonic V-Series Stacked Metallized Film Capacitors**
Digi-Key® V-Series Capacitors Kit

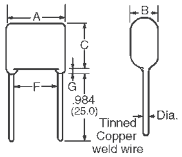
P4542-KIT-ND* **(50 Volt K)** **$49.95**
P4700-KIT-ND† **(100 Volt K)** **$49.95**

Includes 10 each of those parts indicated below (* or †). 180 capacitors. 10 each of the values listed in the chart. Price includes a notebook style storage box with bin guide for easy storage and quick access.

Working Voltage	Cap. µF	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F		10	100	1,000	5,000	10,000	
Bulk Package												
50	0.01	7.3	3.2	5.0	5.0	P4513-ND*	1.35	11.25	67.00	62.00/M	58.00/M	ECQ-V1H103JL
	0.012	7.3	3.2	5.0	5.0	P4514-ND	1.35	11.25	67.00	62.00/M	58.00/M	ECQ-V1H123JL
	0.015	7.3	3.2	5.0	5.0	P4515-ND*	1.41	11.75	70.00	65.00/M	61.00/M	ECQ-V1H153JL
	0.018	7.3	3.2	5.0	5.0	P4516-ND	1.44	12.00	72.00	67.00/M	62.00/M	ECQ-V1H183JL
	0.022	7.3	3.2	5.0	5.0	P4517-ND*	1.47	12.25	73.00	68.00/M	64.00/M	ECQ-V1H223JL
	0.027	7.3	3.2	5.0	5.0	P4518-ND*	1.53	12.75	76.00	71.00/M	66.00/M	ECQ-V1H273JL
	0.033	7.3	3.2	5.0	5.0	P4519-ND*	1.59	13.25	79.00	74.00/M	69.00/M	ECQ-V1H333JL
	0.039	7.3	3.2	5.0	5.0	P4520-ND	1.59	13.25	79.00	74.00/M	69.00/M	ECQ-V1H393JL
	0.047	7.3	3.2	5.0	5.0	P4521-ND*	1.41	11.75	70.00	65.00/M	61.00/M	ECQ-V1H473JL
	0.056	7.3	3.2	5.0	5.0	P4522-ND	1.44	12.00	72.00	67.00/M	62.00/M	ECQ-V1H563JL
	0.068	7.3	3.2	5.0	5.0	P4523-ND*	1.47	12.25	73.00	68.00/M	64.00/M	ECQ-V1H683JL
	0.082	7.3	3.6	5.0	5.0	P4524-ND*	1.50	12.50	75.00	69.00/M	65.00/M	ECQ-V1H823JL
	0.1	7.3	4.0	5.0	5.0	P4525-ND*	1.80	15.00	90.00	83.00/M	78.00/M	ECQ-V1H104JL
	0.12	7.3	4.0	5.0	5.0	P4526-ND	1.98	16.50	99.00	92.00/M	86.00/M	ECQ-V1H124JL
	0.15	10.2	3.4	9.0	7.5	P4538-ND	2.07	17.25	103.00	96.00/M	90.00/M	ECQ-V1H154JC
	0.15	7.3	4.4	5.5	5.0	P4665-ND*	2.07	17.25	103.00	96.00/M	90.00/M	ECQ-V1H154JL
	0.18	7.3	4.5	5.5	5.0	P4666-ND*	2.10	17.50	104.00	97.00/M	91.00/M	ECQ-V1H184JL
	0.22	7.3	4.8	5.5	5.0	P4667-ND	2.10	17.50	104.00	97.00/M	91.00/M	ECQ-V1H224JL
	0.27	7.3	4.6	7.0	5.0	P4668-ND*	2.25	18.75	112.00	104.00/M	97.00/M	ECQ-V1H274JL
	0.33	7.3	5.2	7.0	5.0	P4669-ND*	2.37	19.75	118.00	110.00/M	103.00/M	ECQ-V1H334JL
	0.39	7.3	5.7	7.3	5.0	P4670-ND	2.58	21.50	128.00	119.00/M	112.00/M	ECQ-V1H394JL
	0.47	7.3	6.0	7.3	5.0	P4671-ND*	3.30	27.50	164.00	153.00/M	143.00/M	ECQ-V1H474JL
	0.56	7.3	5.8	10.0	5.0	P4672-ND*	3.39	28.25	169.00	157.00/M	147.00/M	ECQ-V1H564JL
	0.68	7.3	6.5	10.0	5.0	P4673-ND*	5.10	42.50	254.00	236.00/M	221.00/M	ECQ-V1H684JL
	0.82	7.3	6.8	10.0	5.0	P4674-ND*	5.10	42.50	254.00	236.00/M	221.00/M	ECQ-V1H824JL
	1.0	7.3	8.0	11.0	5.0	P4675-ND*	6.30	52.50	313.00	292.00/M	273.00/M	ECQ-V1H105JL
63	0.18	10.2	3.5	9.0	7.5	P4539-ND	2.28	19.00	113.00	106.00/M	99.00/M	ECQ-V1J184JM
	0.22	10.2	3.5	9.0	7.5	P4540-ND	2.34	19.50	116.00	108.00/M	101.00/M	ECQ-V1J224JM
	0.27	10.2	3.5	9.0	7.5	P4541-ND	2.70	22.50	134.00	125.00/M	117.00/M	ECQ-V1J274JM
	0.33	10.2	3.8	9.0	7.5	P4549-ND	3.06	25.50	152.00	142.00/M	132.00/M	ECQ-V1J334JM
	0.39	10.2	4.0	9.0	7.5	P4543-ND	3.42	28.50	170.00	158.00/M	148.00/M	ECQ-V1J394JM
	0.47	10.2	4.5	9.0	7.5	P4544-ND	3.84	32.00	191.00	178.00/M	166.00/M	ECQ-V1J474JM
	0.56	10.2	4.9	9.0	7.5	P4545-ND	4.56	38.00	227.00	211.00/M	197.00/M	ECQ-V1J564JM
	0.68	10.2	5.5	10.0	7.5	P4546-ND	5.40	45.00	269.00	250.00/M	234.00/M	ECQ-V1J684JM
	0.82	10.2	6.1	10.0	7.5	P4547-ND	6.39	53.25	318.00	296.00/M	277.00/M	ECQ-V1J824JM
	1.0	10.2	6.9	10.0	7.5	P4548-ND	7.35	61.25	366.00	340.00/M	318.00/M	ECQ-V1J105JM
100	0.01	7.3	3.2	7.0	5.0	P4713-ND†	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-V1103JM
	0.012	7.3	3.2	7.0	5.0	P4714-ND	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-V1123JM
	0.015	7.3	3.2	7.0	5.0	P4715-ND†	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-V1153JM
	0.018	7.3	3.2	7.0	5.0	P4716-ND	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-V1183JM
	0.022	7.3	3.2	7.0	5.0	P4717-ND†	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-V1223JM
	0.027	7.3	3.2	7.0	5.0	P4718-ND†	2.01	16.75	100.00	93.00/M	87.00/M	ECQ-V1273JM
	0.033	7.3	3.2	7.0	5.0	P4719-ND†	2.01	16.75	100.00	93.00/M	87.00/M	ECQ-V1333JM
	0.039	7.3	3.2	7.0	5.0	P4720-ND†	2.04	17.00	101.00	94.00/M	88.00/M	ECQ-V1393JM
	0.047	7.3	4.0	7.0	5.0	P4721-ND†	2.04	17.00	101.00	94.00/M	88.00/M	ECQ-V1473JM
	0.056	7.3	4.2	7.0	5.0	P4722-ND†	2.10	17.50	104.00	97.00/M	91.00/M	ECQ-V1563JM
	0.068	7.3	4.5	7.0	5.0	P4723-ND†	2.22	18.50	110.00	103.00/M	96.00/M	ECQ-V1683JM
	0.082	7.3	5.0	7.0	5.0	P4724-ND†	2.28	19.00	113.00	106.00/M	99.00/M	ECQ-V1823JM
	0.1	7.3	5.8	7.0	5.0	P4725-ND†	2.31	19.25	115.00	107.00/M	100.00/M	ECQ-V1104JM
	0.12	10.0	3.4	9.0	7.5	P4726-ND	2.58	21.50	128.00	119.00/M	112.00/M	ECQ-V1124JM
	0.15	10.0	3.8	9.0	7.5	P4727-ND†	2.64	22.00	131.00	122.00/M	114.00/M	ECQ-V1154JM
	0.18	10.0	4.0	9.0	7.5	P4728-ND†	2.76	23.00	137.00	128.00/M	119.00/M	ECQ-V1184JM
	0.22	10.0	4.3	9.0	7.5	P4729-ND†	2.91	24.25	145.00	135.00/M	126.00/M	ECQ-V1224JM
	0.27	10.0	5.2	10.0	7.5	P4730-ND†	3.36	28.00	167.00	156.00/M	145.00/M	ECQ-V1274JM
	0.33	10.0	5.9	10.0	7.5	P4731-ND†	3.84	32.00	191.00	178.00/M	166.00/M	ECQ-V1334JM
	0.39	10.0	7.5	11.0	7.5	P4732-ND†	4.23	35.25	210.00	196.00/M	183.00/M	ECQ-V1394JM
	0.47	10.0	8.1	11.0	7.5	P4733-ND†	4.71	39.25	234.00	218.00/M	204.00/M	ECQ-V1474JM

Working Voltage	Cap. µF	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
		L	T	H	F		1,000	2,000	5,000	6,000	10,000	26,000	
Ammo Box Package													
50	0.01	7.3	3.2	7.0	5.0	P4513TB-ND	—	76.00/M	—	71.00/M	66.00/M	62.00/M	ECQ-V1H103JZ3
	0.012	7.3	3.2	7.0	5.0	P4514TB-ND	—	76.00/M	—	71.00/M	66.00/M	62.00/M	ECQ-V1H123JZ3
	0.015	7.3	3.2	7.0	5.0	P4515TB-ND	—	79.00/M	—	74.00/M	69.00/M	65.00/M	ECQ-V1H153JZ3
	0.018	7.3	3.2	7.0	5.0	P4516TB-ND	—	82.00/M	—	76.00/M	71.00/M	67.00/M	ECQ-V1H183JZ3
	0.022	7.3	3.2	5.0	5.0	P4517TB-ND	—	84.00/M	—	78.00/M	73.00/M	68.00/M	ECQ-V1H223JL3
	0.027	7.3	3.2	7.0	5.0	P4518TB-ND	—	85.00/M	—	79.00/M	74.00/M	70.00/M	ECQ-V1H273JZ3
	0.033	7.3	3.2	7.0	5.0	P4519TB-ND	—	88.00/M	—	82.00/M	77.00/M	72.00/M	ECQ-V1H333JZ3
	0.039	7.3	3.2	5.0	5.0	P4520TB-ND	—	88.00/M	—	82.00/M	77.00/M	72.00/M	ECQ-V1H393JL3
	0.047	7.3	3.2	7.0	5.0	P4521TB-ND	—	70.00/M	—	65.00/M	61.00/M	57.00/M	ECQ-V1H473JZ3
	0.056	7.3	3.2	5.0	5.0	P4522TB-ND	—	72.00/M	—	67.00/M	62.00/M	59.00/M	ECQ-V1H563JL3
	0.068	7.3	3.9	7.0	5.0	P4523TB-ND	—	73.00/M	—	68.00/M	64.00/M	60.00/M	ECQ-V1H683JZ3
	0.082	7.3	4.1	7.0	5.0	P4524TB-ND	—	75.00/M	—	69.00/M	65.00/M	61.00/M	ECQ-V1H823JZ3
	0.1	7.3	4.4	7.0	5.0	P4525TB-ND	—	90.00/M	—	83.00/M	78.00/M	73.00/M	ECQ-V1H104JZ3
	0.12	7.3	4.7	7.0	5.0	P4526TB-ND	—	93.00/M	—	86.00/M	81.00/M	76.00/M	ECQ-V1H124JZ3
	0.15	10.0	3.4	9.0	5.0	P4527TB-ND	103.00	—	96.00/M	—	90.00/M	—	ECQ-V1H154JZ3
	0.18	10.0	3.5	9.0	5.0	P4528TB-ND	104.00	—	97.00/M	—	91.00/M	—	ECQ-V1H184JZ3
	0.22	10.0	3.7	9.0	5.0	P4529TB-ND	104.00	—	97.00/M	—	91.00/M	—	ECQ-V1H224JZ3
	0.27	10.0	4.0	9.0	5.0	P4530TB-ND	112.00	—	104.00/M	—	97.00/M	—	ECQ-V1H274JZ3
	0.33	10.0	4.2	9.0	5.0	P4531TB-ND	118.00	—	110.00/M	—	103.00/M	—	ECQ-V1H334JZ3
	0.39	10.0	4.9	9.0	5.0	P4532TB-ND	128.00	—	119.00/M	—	112.00/M	—	ECQ-V1H394JZ3
	0.47	10.0	5.5	10.0	5.0	P4533TB-ND	164.00	—	153.00/M	—	143.00/M	—	ECQ-V1H474JZ3
	0.56	10.0	6.1	10.0	5.0	P4534TB-ND	169.00	—	157.00/M	—	147.00/M	—	ECQ-V1H564JZ3
	0.68	10.0	6.8	10.0	5.0	P4535TB-ND	254.00	—	236.00/M	—	221.00/M	—	ECQ-V1H684JZ3
	0.82	7.3	6.8	10.0	5.0	P4536TB-ND	254.00	—	236.00/M	—	221.00/M	—	ECQ-V1H824JL3
	1.0	7.3	8.0	11.0	5.0	P4537TB-ND	313.00	—	292.00/M	—	273.00/M	—	ECQ-V1H105JL3

Panasonic® E-Series Metallized Polyester Capacitors



GENERAL SPECIFICATIONS:
ELECTRICAL: Rated Voltage 100 V.D.C., 250 V.D.C., 400 V.D.C., 630 V.D.C. **Capacitance Tolerance** ±10% (K)
Insulation Resistance: Less than 0.33 µF: 9,000 MΩ; More than 0.33 µF: 3,000 MΩ. **Dissipation Factor** = 1.0% at 1kHz

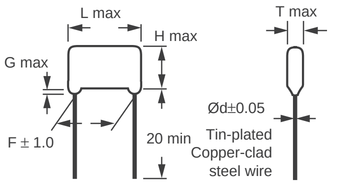
Withstanding Voltage Rated Voltage X 1.5 (1 min.)
Operating Temperature -40°C ~ +85°C

PANASONIC ECQ-E CROSS REFERENCES:
Sprague: DF/450P/451P/453P; **Westlake:** 160/168/185/167/184/186; **Mepco:** 713A1/ 719A1/C280; **TRW:** X601PE/X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/PHE354; **Roederstein:** MKT1818/MKT1822; **WIMA:** MKS; **CSF Thompson:** MD/MC; **Siemens:** B325X-XX; **Rubycon:** MC/MN; **Nichicon:** DDXM.

Working Voltage	Cap. µF	Dimensions (mm) A	B	C	F	G	Dia.	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
100	.1	12.0	4.0	7.4	10.0	1.0	.6	E1104-ND	.34	2.94	23.03	147.00	138.00/M	127.00/M	ECQ-E1104KZ
	.12	12.0	4.5	7.4	10.0	1.0	.6	E1124-ND	.35	3.03	23.74	151.00	142.00/M	131.00/M	ECQ-E1124KZ
	.15	12.0	4.0	9.5	10.0	1.0	.6	E1154-ND	.36	3.12	24.44	156.00	147.00/M	135.00/M	ECQ-E1154KZ
	.18	12.0	4.5	10.0	10.0	1.0	.6	E1184-ND	.39	3.30	25.85	165.00	155.00/M	143.00/M	ECQ-E1184KZ
	.22	12.0	5.0	10.5	10.0	1.0	.6	E1224-ND	.41	3.54	27.73	177.00	166.00/M	153.00/M	ECQ-E1224KZ
	.27	17.0	4.5	8.0	15.0	1.0	.6	E1274-ND	.46	3.90	30.55	195.00	183.00/M	169.00/M	ECQ-E1274KZ
	.33	17.0	4.5	10.0	15.0	1.0	.6	E1334-ND	.51	4.35	34.08	217.00	205.00/M	188.00/M	ECQ-E1334KZ
	.39	17.0	5.0	10.0	15.0	1.0	.6	E1394-ND	.53	4.50	35.25	225.00	212.00/M	195.00/M	ECQ-E1394KZ
	.47	17.0	5.5	11.0	15.0	1.0	.6	E1474-ND	.55	4.74	37.13	237.00	223.00/M	205.00/M	ECQ-E1474KZ
	.56	17.0	6.5	11.5	15.0	1.0	.6	E1564-ND	.64	5.46	42.77	272.00	257.00/M	236.00/M	ECQ-E1564KZ
	.68	17.0	7.0	12.0	15.0	1.0	.8	E1684-ND	.72	6.21	48.65	310.00	292.00/M	269.00/M	ECQ-E1684KZ
	.82	17.0	7.5	13.0	15.0	1.0	.8	E1824-ND	.79	6.81	53.35	340.00	320.00/M	295.00/M	ECQ-E1824KZ
	1.0	17.0	8.0	14.0	15.0	1.0	.8	E1105-ND	.86	7.41	58.05	370.00	348.00/M	321.00/M	ECQ-E1105KZ
	1.2	17.0	8.5	16.0	15.0	1.0	.8	E1125-ND	1.00	8.58	67.21	428.00	403.00/M	371.00/M	ECQ-E1125KZ
	1.5	25.5	7.5	14.5	22.5	1.0	.8	E1155-ND	1.17	10.02	78.49	500.00	471.00/M	434.00/M	ECQ-E1155KZ
	1.8	25.5	8.5	16.0	22.5	1.0	.8	E1185-ND	1.30	11.13	87.19	555.00	523.00/M	482.00/M	ECQ-E1185KZ
	2.2	25.5	9.5	16.5	22.5	1.0	.8	E1225-ND	1.47	12.60	98.70	629.00	592.00/M	545.00/M	ECQ-E1225KZ
	2.7	25.5	10.0	18.5	22.5	1.0	.8	E1275-ND	1.67	14.31	112.10	714.00	673.00/M	619.00/M	ECQ-E1275KZ
	3.3	25.5	10.0	19.0	22.5	1.0	.8	E1335-ND	2.13	18.24	142.88	910.00	858.00/M	790.00/M	ECQ-E1335KZ
	3.9	30.5	11.0	18.0	27.5	1.5	.8	E1395-ND	2.41	20.67	161.92	1031.00	972.00/M	895.00/M	ECQ-E1395KZ
	4.7	30.5	11.0	20.5	27.5	1.5	.8	E1475-ND	2.72	23.31	182.60	1163.00	1096.00/M	1009.00/M	ECQ-E1475KZ
	5.6	30.5	12.5	21.0	27.5	1.5	.8	E1565-ND	3.23	27.72	217.14	1383.00	1303.00/M	1200.00/M	ECQ-E1565KZ
	6.8	30.5	13.0	24.0	27.5	1.5	.8	E1685-ND	3.67	31.47	246.52	1570.00	1480.00/M	1362.00/M	ECQ-E1685KZ
	8.2	30.5	15.0	25.0	27.5	1.5	.8	E1825-ND	4.24	36.30	284.35	1811.00	1707.00/M	1571.00/M	ECQ-E1825KZ
	10.0	30.5	16.0	27.0	27.5	1.5	.8	E1106-ND	4.93	42.24	330.88	2108.00	1986.00/M	1829.00/M	ECQ-E1106KZ
250	.01	12.5	5.0	8.5	10.0	1.0	.6	E2103-ND*	.31	2.67	20.92	133.00	126.00/M	116.00/M	ECQ-E2103KS
	.012	12.5	5.0	8.5	10.0	1.0	.6	E2123-ND*	.31	2.67	20.92	133.00	126.00/M	116.00/M	ECQ-E2123KS
	.015	12.5	5.0	8.5	10.0	1.0	.6	E2153-ND	.31	2.67	20.92	133.00	126.00/M	116.00/M	ECQ-E2153KS
	.018	12.5	5.0	8.5	10.0	1.0	.6	E2183-ND	.31	2.67	20.92	133.00	126.00/M	116.00/M	ECQ-E2183KS
	.022	12.5	5.0	8.5	10.0	1.0	.6	E2223-ND*	.31	2.67	20.92	133.00	126.00/M	116.00/M	ECQ-E2223KS
	.027	12.5	5.0	8.5	10.0	1.0	.6	E2273-ND	.31	2.67	20.92	133.00	126.00/M	116.00/M	ECQ-E2273KS
	.033	12.5	5.0	8.5	10.0	1.0	.6	E2333-ND*	.31	2.67	20.92	133.00	126.00/M	116.00/M	ECQ-E2333KS
	.039	12.5	5.0	8.5	10.0	1.0	.6	E2393-ND	.31	2.67	20.92	133.00	126.00/M	116.00/M	ECQ-E2393KS
	.047	12.5	5.0	8.0	10.0	1.0	.6	E2473-ND*	.26	2.19	17.16	109.00	103.00/M	95.00/M	ECQ-E2473KS
	.056	12.5	5.5	8.5	10.0	1.0	.6	E2563-ND	.32	2.76	21.62	138.00	130.00/M	119.00/M	ECQ-E2563KS
	.068	12.5	5.5	8.5	10.0	1.0	.6	E2683-ND*	.33	2.82	22.09	141.00	133.00/M	122.00/M	ECQ-E2683KS
	.082	12.5	5.5	10.0	10.0	1.0	.6	E2823-ND	.34	2.94	23.03	147.00	138.00/M	127.00/M	ECQ-E2823KS
	.10	12.5	5.5	10.5	10.0	1.0	.6	E2104-ND*	.31	2.64	20.68	132.00	124.00/M	114.00/M	ECQ-E2104KS
	.12	17.5	5.5	10.0	15.0	1.0	.8	E2124-ND	.40	3.42	26.79	171.00	161.00/M	148.00/M	ECQ-E2124KS
	.15	17.5	6.0	10.5	15.0	1.0	.8	E2154-ND*	.43	3.72	29.14	186.00	175.00/M	161.00/M	ECQ-E2154KS
	.18	17.5	6.0	10.5	15.0	1.0	.8	E2184-ND	.46	3.90	30.55	195.00	183.00/M	169.00/M	ECQ-E2184KS
	.22	17.5	6.0	11.0	15.0	1.0	.8	E2224-ND*	.48	4.08	31.96	204.00	192.00/M	177.00/M	ECQ-E2224KS
	.27	23.0	6.0	10.5	20.0	1.0	.8	E2274-ND	.55	4.71	36.90	235.00	221.00/M	204.00/M	ECQ-E2274KS
	.33	23.0	6.0	11.0	20.0	1.0	.8	E2334-ND*	.60	5.16	40.42	257.00	243.00/M	223.00/M	ECQ-E2334KS
	.39	23.0	6.5	11.5	20.0	1.0	.8	E2394-ND	.65	5.55	43.48	277.00	261.00/M	240.00/M	ECQ-E2394KS
	.47	23.0	7.0	12.0	20.0	1.0	.8	E2474-ND*	.69	5.94	46.53	296.00	279.00/M	257.00/M	ECQ-E2474KS
	.56	23.0	7.5	13.0	20.0	1.0	.8	E2564-ND	.76	6.51	51.00	325.00	306.00/M	282.00/M	ECQ-E2564KS
	.68	23.0	8.5	14.0	20.0	1.0	.8	E2684-ND	.84	7.17	56.17	358.00	337.00/M	310.00/M	ECQ-E2684KS
	.82	31.0	7.5	13.0	27.5	1.0	.8	E2824-ND	.92	7.89	61.81	394.00	371.00/M	342.00/M	ECQ-E2824KS
	1.0	31.0	8.5	14.0	27.5	1.0	.8	E2105-ND*	.98	8.37	65.57	418.00	394.00/M	362.00/M	ECQ-E2105KS
	1.2	31.0	8.5	16.0	27.5	1.0	.8	E2125-ND*	1.07	9.18	71.91	458.00	432.00/M	397.00/M	ECQ-E2125KS
	1.5	31.0	9.5	17.0	27.5	1.0	.8	E2155-ND*	1.38	11.82	92.59	590.00	556.00/M	512.00/M	ECQ-E2155KS
	1.8	31.0	9.5	18.5	27.5	1.0	.8	E2185-ND	1.66	14.25	111.63	711.00	670.00/M	617.00/M	ECQ-E2185KS
	2.2	31.0	10.5	19.5	27.5	1.0	.8	E2225-ND*	1.67	14.31	112.10	714.00	673.00/M	619.00/M	ECQ-E2225KS
400	.01	14.0	5.0	8.5	10.5	1.0	.6	E4103-ND	.42	3.60	28.20	180.00	169.00/M	156.00/M	ECQ-E4103KZ
	.012	14.0	5.5	8.5	10.5	1.0	.6	E4123-ND	.42	3.60	28.20	180.00	169.00/M	156.00/M	ECQ-E4123KZ
	.015	14.0	5.0	8.5	10.5	1.0	.6	E4153-ND	.43	3.72	29.14	186.00	175.00/M	161.00/M	ECQ-E4153KZ
	.018	14.0	5.5	8.5	10.5	1.0	.6	E4183-ND	.43	3.72	29.14	186.00	175.00/M	161.00/M	ECQ-E4183KZ
	.022	14.0	5.5	10.0	10.5	1.0	.6	E4223-ND	.44	3.75	29.38	187.00	176.00/M	162.00/M	ECQ-E4223KZ
	.027	14.0	5.5	10.5	10.5	1.0	.6	E4273-ND	.47	3.99	31.26	199.00	188.00/M	173.00/M	ECQ-E4273KZ
	.033	14.0	6.0	11.0	10.5	1.0	.6	E4333-ND	.49	4.20	32.90	210.00	197.00/M	182.00/M	ECQ-E4333KZ
	.039	14.0	6.5	11.5	10.5	1.0	.6	E4393-ND	.50	4.26	33.37	213.00	200.00/M	184.00/M	ECQ-E4393KZ
	.047	14.0	7.0	12.0	10.5	1.0	.6	E4473-ND	.50	4.26	33.37	213.00	200.00/M	184.00/M	ECQ-E4473KZ
	.056	17.0	6.5	11.0	13.5	1.0	.6	E4563-ND	.54	4.59	35.96	229.00	216.00/M	199.00/M	ECQ-E4563KZ
	.068	17.0	7.0	12.0	13.5	1.0	.6	E4683-ND	.57	4.86	38.07	243.00	228.00/M	210.00/M	ECQ-E4683KZ
	.082	17.0	7.5	12.5	13.5	1.0	.6	E4823-ND	.59	5.07	39.72	253.00	238.00/M	219.00/M	ECQ-E4823KZ
	.10	17.0	7.5	14.5	13.5	1.0	.6	E4104-ND	.58	4.98	39.01	249.00	234.00/M	216.00/M	ECQ-E4104KZ
	.12	17.0	8.5	15.5	13.5	1.0	.6	E4124-ND	.66	5.67	44.42	283.00	267.00/M	245.00/M	ECQ-E4124KZ
	.15	17.0	9.0	16.5	13.5	1.0	.8	E4154-ND	.72	6.21	48.65	310.00	292.00/M	269.00/M	ECQ-E4154KZ
	.18	17.0	10.0	17.0	13.5	1.0	.8	E4184-ND	.77	6.63	51.94	331.00	312.00/M	287.00/M	ECQ-E4184KZ
	.22	24.5	8.5	15.5	20.5	1.0	.8	E4224-ND	.83	7.11	55.70	355.00	334.00/M	308.00/M	ECQ-E4224KZ
	.27	24.5	9.0	16.5	20.5	1.0	.8	E4274-ND	.92	7.86	61.57	392.00	370.00/M	340.00/M	ECQ-E4274KZ
	.33	24.5	9.5	17.0	20.5	1.0	.8	E4334-ND	.99	8.46	66.27	422.00	398.00/M	366.00/M	ECQ-E4334KZ
	.39	29.5	9.5	16.5	25.5	1.5	.8	E4394-ND	1.07	9.18	71.91	458.00	432.00/M	397.00/M	ECQ-E4394KZ
	.47	29.5	10.0	17.5	25.5	1.5	.8	E4474-ND	1.16	9.90	77.55	494.00	465.00/M	429.00/M	ECQ-E4474KZ
	.56	29.5	11.0	18.0	25.5	1.5	.8	E4564-ND	1.26	10.80	84.60	539.00	508.00/M	468.00/M	ECQ-E4564KZ
	.68	29.5	12.0	19.0	25.5	1.5	.8	E4684-ND	1.41	12.09	94.71	603.00	568.00/M	523.00/M	ECQ-E4684KZ
	.82	29.5	13.0	21.0	25.5	1.5	.8	E4824-ND	1.54	13.20	103.40	659.00	621.00/M	571.00/M	ECQ-E4824KZ
	1.0	29.5	15.0	22.0	25.5	1.5	.8	E4105-ND	1.68	14.43	113.04	720.00	678.00/M	625.00/M	ECQ-E4105KZ
	1.2	29.5	15.0	25.0	25.5	1.5	.8	E4125-ND	2.38	20.40	159.80	1018.00	959.00/M	883.00/M	ECQ-E4125KZ
	1.5	43.5	13.0	22.0	38.5	1.5	.8	E4155-ND	2.56	21.96	172.02	1096.00	1032.00/M	951.00/M	ECQ-E4155KZ
	1.8	43.5	14.5	24.0	38.5	1.5	.8	E4185-ND	3.03	26.01	203.75	1298.00	1223.00/M	1126.00/M	ECQ-E4185KZ
	2.2	43.5	16.0	25.5	38.5	1.5	.8	E4225-ND	3.47	29.70	232.65	1482.00	1396.00/M	1286.00/M	ECQ-E4225KZ
630	.01	14.0	5.5	8.5	10.5	1.0	.6	E6103-ND	.45	3.87	30.32	193.00	182.00/M	168.00/M	ECQ-E6103KZ
	.015	14.0	6.0	10.5	10.5	1.0	.6	E6153-ND	.48	4.14	32.43	207.00	195.00/M	179.00/M	ECQ-E6153KZ
	.018	14.0	6.0	11.0	10.5	1.0	.6	E6183-ND	.50	4.26	33.37	213.00	200.00/M	184.00/M	ECQ-E6183KZ
	.022	14.0	6.5	12.0	10.5	1.0	.6	E6223-ND	.52	4.44	34.78	222.00	209.00/M	192.00/M	ECQ-E6223KZ
	.027	17.0	5.5	12.5	13.5	1.0	.6	E6273-ND	.54	4.59	35.96	229.00	216.00/M	199.00/M	ECQ-E6273KZ
	.033	17.0	6.0	12.0	13.5	1.0	.6	E6333-ND	.55	4.74	37.13	237.00	223.00/M	205.00/M	ECQ-E6333KZ
	.039	17.0	6.5	12.0	13.5	1.0	.6	E6393-ND	.57	4.86	38.07	243.00	228.00/M	210.00/M	ECQ-E6393KZ
	.047	17.0	7.0	13.5	13.5	1.0	.6	E6473-ND	.58	4.98	39.01	249.00	234.00/M	216.00/M	ECQ-E6473KZ
	.056	17.0	7.5	14.0	13.5	1.0	.6	E6563-ND	.62	5.34	41.83	266.00	251.00/M	231.00/M	ECQ-E6563KZ
	.068	17.0	8.5	15.0	13.5	1.0	.6	E6683-ND	.67	5.76	45.12	287.00	271.00/M	249.00/M	ECQ-E6683KZ
	.082	17.0	9.0	16.0	13.5	1.0	.8	E6823-ND	.72	6.15	48.18	307.00	289.00/M	266.00/M	ECQ-E6823KZ
	.10	24.5	7.0	14.0	20.5	1.5	.8	E6104-ND	.77	6.57	51.47	328.00	309.00/M	284.00/M	ECQ-E6104KZ
	.12	24.5	8.5	15.5	20.5	1.5	.8	E6124-ND	.85	7.26	56.87	362.00	341.00/M	314.00/M	ECQ-E6124KZ
	.15	24.5	9.0	16.5	20.5	1.5	.8	E6154-ND	.95	8.13	63.69	406.00	382.00/M	352.00/M	ECQ-E6154KZ
	.18	24.5	10.0	17.0	20.5	1.5	.8	E6184-ND	1.01	8.67	67.92	433.00	408.00/M	375.00/M	ECQ-E6184KZ
	.22	29.5	9.5	17.0	25.5	1.5	.8	E6224-ND	1.10	9.45	74.03	472.00	444.00/M	409.00/M	ECQ-E6224KZ
	.27	29.5	10.5	17.5	25.5	1.5	.8	E6274-ND	1.24	10.65	83.43	531.00	501.00/M	461.00/M	ECQ-E6274KZ
	.33	29.5	11.5	18.5	25.5	1.5	.8	E6334-ND	1.40	12.00	94.00	599.00	564.00/M	519.00/M	ECQ-E6334KZ
	.39	29.5	12.0	19.5	25.5	1.5	.8	E6394-ND	1.52	13.05	102.23	651.00	614.00/M	565.00/M	ECQ-E6394KZ
	.47	29.5	13.0	20.5	25.5	1.5	.8	E6474-ND	1.64	14.07	110.22	702.00	661.00/M	609.00/M	ECQ-E6474KZ
	.56	29.5	15.0	21.5	25.5	1.5	.8	E6564-ND	1.95	16.68	130.66	832.00	784.00/M	722.00/M	ECQ-E6564KZ
	.68	43.5	12.5	19.5	38.5	1.5	.8	E6684-ND	2.52	21.60	169.20	1078.00	1016.00/M	935.00/M	ECQ-E6684KZ
	.82	43.5	14.0	21.0	38.5	1.5	.8	E6824-ND	2.77	23.70	185.65	1183.00	1114.00/M	1026.00/M	ECQ-E6824KZ
	1.0	43.5	14.5	24.0	38.5	1.5	.8	E6105-ND	3.36	28.77	225.37	1436.00	1353.00/M	1245.00/M	ECQ-E6105KZ
	1.2	43.5	16.0	25.5	38.5	1.5	.8	E6125-ND	3.53	30.24	236.88	1509.00	1422.00/M	1309.00/M	ECQ-E6125KZ
	1.5	43.5	18.5	27.0	38.5	1.5	.8	E6155-ND	4.31	36.96	289.52	1844.00	1738.00/M	1600.00/M	ECQ-E6155KZ

*** E-KIT-ND** ***Digi-Key® E-Series Capacitors Kit*** 10 each of all values denoted (except #E2104 which has 30 pcs.) - 170 total pieces. Notebook style storage case **$59.95**

Panasonic® ECQ-E(B) Series Miniaturized Metallized Polyester Film Capacitors



The type ECQ-E(B) series is a down-sized version of the popular ECQ-E(F) series. It provides similar electrical characteristics in a smaller package.

FEATURES:

- Non-inductive construction
- Wound metallized polyester dielectric

APPLICATIONS:

- Blocking, by-passing, filtering, timing, interference suppression, low pulse applications.

SPECIFICATIONS:

Operating temperature range: -40°C to +85°C

Rated voltage: 250VDC

Capacitance tolerance: ±10%(K) @ 1kHZ

Dissipation factor: ≤1.0% (20°C 1kHz)

Withstand voltage: 250VDC X 150% for 60 seconds between terminals

Insulation resistance: ≥9,000MΩ (C ≤ 0.33µF) @ 100VDC, 20° for 60 seconds. ≥3,000MΩ · µF (C > 0.33µF) @ 100VDC, 20° for 60 seconds.

Voltage (VDC)	Cap. (µF)	Dimensions (mm) L	T	H	F	G	dø	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Panasonic Part No.
250	0.01	7.9	4.2	7.1	5.0	1.0	0.5	P10955-ND	.36	.25	.18	.12	.10	ECQ-E2103KB
	0.012	7.9	4.2	7.1	5.0	1.0	0.5	P10956-ND	.36	.25	.18	.12	.10	ECQ-E2123KB
	0.015	7.9	4.2	7.1	5.0	1.0	0.5	P10957-ND	.36	.25	.18	.12	.10	ECQ-E2153KB
	0.018	7.9	4.3	7.2	5.0	1.0	0.5	P10958-ND	.36	.25	.18	.12	.10	ECQ-E2183KB
	0.022	7.9	4.3	7.2	5.0	1.0	0.5	P10959-ND	.36	.25	.18	.12	.10	ECQ-E2223KB
	0.027	7.9	4.3	7.2	5.0	1.0	0.5	P10960-ND	.36	.25	.18	.12	.10	ECQ-E2273KB
	0.033	7.9	4.3	7.2	5.0	1.0	0.5	P10961-ND	.36	.25	.18	.12	.10	ECQ-E2333KB
	0.039	7.9	4.5	7.4	5.0	1.0	0.5	P10962-ND	.36	.25	.18	.12	.10	ECQ-E2393KB
	0.047	7.9	4.5	7.4	5.0	1.0	0.5	P10963-ND	.30	.21	.15	.10	.08	ECQ-E2473KB
	0.056	7.9	4.7	7.7	5.0	1.0	0.5	P10964-ND	.36	.25	.18	.12	.10	ECQ-E2563KB
	0.068	7.9	5.1	8.0	5.0	1.0	0.5	P10965-ND	.29	.22	.16	.12	.09	ECQ-E2683KB
	0.082	7.9	5.4	8.6	5.0	1.0	0.5	P10966-ND	.33	.25	.18	.13	.10	ECQ-E2823KB
	0.1	7.9	5.9	9.0	5.0	1.0	0.5	P10967-ND	.36	.25	.18	.12	.10	ECQ-E2104KB
	0.12	7.9	5.7	10.6	5.0	1.0	0.5	P10968-ND	.38	.28	.20	.15	.12	ECQ-E2124KB
	0.15	7.9	6.3	11.2	5.0	1.0	0.5	P10969-ND	.40	.30	.21	.16	.12	ECQ-E2154KB
	0.18	10.3	5.0	9.7	7.5	1.0	0.5	P10970-ND	.43	.32	.23	.17	.13	ECQ-E2184KB
	0.22	10.3	5.4	10.1	7.5	1.0	0.5	P10971-ND	.44	.33	.24	.17	.13	ECQ-E2224KB
	0.27	10.3	5.9	10.8	7.5	1.0	0.5	P10972-ND	.51	.38	.27	.20	.16	ECQ-E2274KB
	0.33	10.3	6.4	11.3	7.5	1.0	0.5	P10973-ND	.56	.42	.30	.22	.17	ECQ-E2334KB
	0.39	12.3	5.7	10.9	10.0	1.0	0.6	P10974-ND	.55	.41	.31	.22	.18	ECQ-E2394KB
	0.47	12.3	6.2	11.4	10.0	1.0	0.6	P10975-ND	.50	.38	.28	.20	.16	ECQ-E2474KB
	0.56	12.3	6.7	11.9	10.0	1.0	0.6	P10976-ND	.64	.48	.36	.26	.21	ECQ-E2564KB
	0.68	12.3	7.3	12.7	10.0	1.0	0.6	P10977-ND	.71	.53	.39	.28	.23	ECQ-E2684KB
	0.82	15.3	6.3	13.3	12.5	1.0	0.6	P10978-ND	.79	.59	.44	.32	.25	ECQ-E2824KB
	1.0	15.3	7.0	14.0	12.5	1.0	0.6	P10979-ND	.63	.47	.35	.25	.20	ECQ-E2105KB
	1.2	15.3	7.6	14.6	12.5	1.0	0.6	P10980-ND	.93	.70	.51	.37	.30	ECQ-E2125KB
	1.5	15.3	8.6	15.7	12.5	1.0	0.6	P10981-ND	1.08	.82	.61	.44	.36	ECQ-E2155KB
	1.8	20.8	7.6	14.6	17.5	1.0	0.8	P10982-ND	1.20	.90	.68	.48	.40	ECQ-E2185KB
	2.2	20.8	8.4	15.6	17.5	1.0	0.8	P10983-ND	1.31	.99	.74	.53	.44	ECQ-E2225KB
	2.7	20.8	9.3	16.7	17.5	1.0	0.8	P10984-ND	1.48	1.11	.84	.60	.50	ECQ-E2275KB
	3.3	20.8	10.5	17.9	17.5	1.0	0.8	P10985-ND	1.79	1.35	1.01	.72	.60	ECQ-E2335KB
	3.9	20.8	10.8	19.8	17.5	1.0	0.8	P10986-ND	2.53	1.92	1.45	1.09	.94	ECQ-E2395KB
	4.7	20.8	11.9	21.0	17.5	1.0	0.8	P10987-ND	2.81	2.13	1.61	1.21	1.05	ECQ-E2475KB

Panasonic® ECQ-E(F) Series

Miniaturized Metallized Polyester Film Capacitors

The type ECQ-E(F) series is using a dual side metallized polyester film with high dielectric constant(e) which makes it possible to produce large C-values in small dimensions, and is economical capacitor meeting high requirements for professional circuit design.

FEATURES:

- Self-healing property
- Flame retardant epoxy resin coating

APPLICATIONS:

- Blocking, by-passing, filtering, timing, interference suppression, low pulse applications.

SPECIFICATIONS:

Reference standard: JIS C5115, C5151

Operating temperature range: -40°C to +85°C (+105°C, 75% of Rated voltage)

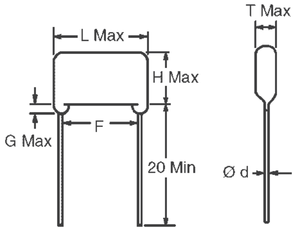
Rated voltage: 100V, 250V, 400V, 630V

Capacitance tolerance: ±10% (K)

Dissipation factor: 1.0% Max. (20°C 1kHz)

Withstand voltage: Rated voltage DC100V ~ 630V (V.DC) X 150% 1 minute between terminals

Insulation resistance: DC100V ~ 630V: C ≤ 0.33µF 9,000MΩ Min., C > 0.33µF 3,000ΩVµF Min.



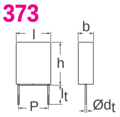
Working Voltage (VDC)	Capacitance (µF)	Dimensions (mm) L	T	H	F	G	d	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Panasonic Part No.
100	.01	7.8	4.6	7.7	5.0	1.0	0.5	EF1103-ND	.42	.32	.23	.17	.13	ECQ-E1103KF
	.012	7.8	4.5	7.6	5.0	1.0	0.5	EF1123-ND	.42	.32	.23	.17	.13	ECQ-E1123KF
	.015	7.8	4.5	7.6	5.0	1.0	0.5	EF1153-ND	.42	.32	.23	.17	.13	ECQ-E1153KF
	.018	7.8	4.6	7.7	5.0	1.0	0.5	EF1183-ND	.42	.32	.23	.17	.13	ECQ-E1183KF
	.022	7.8	4.9	8.0	5.0	1.0	0.5	EF1223-ND	.42	.32	.23	.17	.13	ECQ-E1223KF
	.027	7.8	4.7	7.8	5.0	1.0	0.5	EF1273-ND	.42	.32	.23	.17	.13	ECQ-E1273KF
	.033	7.8	4.6	7.7	5.0	1.0	0.5	EF1333-ND	.42	.32	.23	.17	.13	ECQ-E1333KF
	.039	7.8	4.9	8.0	5.0	1.0	0.5	EF1393-ND	.42	.32	.23	.17	.13	ECQ-E1393KF
	.047	7.8	4.5	7.5	5.0	1.0	0.5	EF1473-ND	.42	.32	.23	.17	.13	ECQ-E1473KF
	.056	7.8	4.8	7.9	5.0	1.0	0.5	EF1563-ND	.42	.32	.23	.17	.13	ECQ-E1563KF
	.068	7.8	4.8	7.9	5.0	1.0	0.5	EF1683-ND	.42	.32	.23	.17	.13	ECQ-E1683KF
	.082	7.8	4.7	9.9	5.0	1.0	0.5	EF1823-ND	.42	.32	.23	.17	.13	ECQ-E1823KF
	.1	7.8	5.0	10.0	5.0	1.0	0.5	EF1104-ND	.42	.32	.23	.17	.13	ECQ-E1104KF
	.12	10.3	4.5	7.5	7.5	1.0	0.6	EF1124-ND	.45	.33	.24	.17	.14	ECQ-E1124KF
	.15	10.3	4.5	7.5	7.5	1.0	0.6	EF1154-ND	.46	.34	.24	.18	.14	ECQ-E1154KF
	.18	10.3	4.8	7.9	7.5	1.0	0.6	EF1184-ND	.49	.37	.26	.19	.15	ECQ-E1184KF
	.22	10.3	5.0	8.0	7.5	1.0	0.6	EF1224-ND	.52	.39	.28	.20	.16	ECQ-E1224KF
	.27	10.3	4.5	12.0	7.5	1.0	0.6	EF1274-ND	.57	.42	.30	.22	.17	ECQ-E1274KF
	.33	10.3	6.0	10.7	7.5	1.0	0.6	EF1334-ND	.65	.48	.34	.25	.19	ECQ-E1334KF
	.39	10.3	6.3	11.0	7.5	1.0	0.6	EF1394-ND	.67	.49	.35	.26	.20	ECQ-E1394KF
	.47	10.3	6.0	12.0	7.5	1.0	0.6	EF1474-ND	.69	.52	.37	.27	.21	ECQ-E1474KF
	.56	12.0	5.5	10.9	10.0	1.0	0.6	EF1564-ND	.73	.55	.40	.29	.23	ECQ-E1564KF
	.68	12.0	6.0	11.9	10.0	1.0	0.6	EF1684-ND	.83	.62	.46	.33	.27	ECQ-E1684KF
	.82	12.0	6.0	13.5	10.0	1.0	0.6	EF1824-ND	.91	.68	.50	.36	.29	ECQ-E1824KF
	1.0	12.0	6.7	14.0	10.0	1.0	0.6	EF1105-ND	.99	.74	.55	.40	.32	ECQ-E1105KF
	1.2	18.5	5.5	12.8	15.0	1.0	0.6	EF1125-ND	1.14	.86	.63	.46	.36	ECQ-E1125KF
	1.5	18.5	6.0	13.4	15.0	1.0	0.8	EF1155-ND	1.24	.93	.70	.50	.42	ECQ-E1155KF
	1.8	18.5	6.5	14.4	15.0	1.0	0.8	EF1185-ND	1.38	1.04	.78	.56	.46	ECQ-E1185KF
	2.2	18.5	7.0	15.0	15.0	1.0	0.8	EF1225-ND	1.56	1.17	.88	.63	.52	ECQ-E1225KF
	2.7	18.5	8.0	15.8	15.0	1.0	0.8	EF1275-ND	1.78	1.34	1.00	.72	.60	ECQ-E1275KF
	3.3	18.5	8.5	16.5	15.0	1.0	0.8	EF1335-ND	2.26	1.70	1.27	.91	.75	ECQ-E1335KF
	3.9	26.0	7.0	16.4	22.5	1.0	0.8	EF1395-ND	2.24	1.70	1.29	.97	.84	ECQ-E1395KF
	4.7	26.0	7.5	17.0	22.5	1.0	0.8	EF1475-ND	2.53	1.92	1.45	1.09	.95	ECQ-E1475KF
	5.6	26.0	8.3	17.5	22.5	1.0	0.8	EF1565-ND	3.01	2.28	1.72	1.29	1.12	ECQ-E1565KF
	6.8	26.0	9.0	18.5	22.5	1.0	0.8	EF1685-ND	3.42	2.59	1.96	1.47	1.27	ECQ-E1685KF
	8.2	26.0	10.0	20.0	22.5	1.5	0.8	EF1825-ND	3.94	2.99	2.25	1.69	1.47	ECQ-E1825KF
	10.0	26.0	11.5	21.0	22.5	1.5	0.8	EF1106-ND	4.58	3.47	2.62	1.97	1.71	ECQ-E1106KF

(Continued)

Working Voltage (VDC)	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each					Panasonic Part No.
		L	T	H	F	G	d		1	10	100	500	1,000	
250	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF2103-ND	.37	.28	.20	.15	.11	ECQ-E2103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF2123-ND	.30	.21	.15	.10	.08	ECQ-E2123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF2153-ND	.30	.21	.15	.10	.08	ECQ-E2153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF2183-ND	.30	.21	.15	.10	.08	ECQ-E2183KF
	.022	10.3	4.4	7.5	7.5	1.0	0.6	EF2223-ND	.34	.26	.18	.13	.11	ECQ-E2223KF
	.027	10.3	4.4	7.5	7.5	1.0	0.6	EF2273-ND	.54	.37	.26	.18	.14	ECQ-E2273KF
	.033	10.3	4.5	7.5	7.5	1.0	0.6	EF2333-ND	.25	.19	.13	.10	.08	ECQ-E2333KF
	.039	10.3	4.5	7.5	7.5	1.0	0.6	EF2393-ND	.30	.21	.15	.10	.08	ECQ-E2393KF
	.047	10.3	4.5	7.5	7.5	1.0	0.6	EF2473-ND	.37	.26	.18	.13	.10	ECQ-E2473KF
	.056	10.3	4.8	7.9	7.5	1.0	0.6	EF2563-ND	.59	.40	.29	.20	.16	ECQ-E2563KF
	.068	10.3	4.5	7.5	7.5	1.0	0.6	EF2683-ND	.31	.23	.17	.12	.10	ECQ-E2683KF
	.082	10.3	4.9	8.0	7.5	1.0	0.6	EF2823-ND	.27	.20	.15	.11	.08	ECQ-E2823KF
	.1	10.3	5.8	8.4	7.5	1.0	0.6	EF2104-ND	.45	.31	.22	.15	.12	ECQ-E2104KF
	.12	10.3	6.0	9.0	7.5	1.0	0.6	EF2124-ND	.31	.24	.17	.12	.10	ECQ-E2124KF
	.15	10.3	6.0	10.8	7.5	1.0	0.6	EF2154-ND	.47	.35	.25	.18	.14	ECQ-E2154KF
	.18	12.0	5.0	10.3	10.0	1.0	0.6	EF2184-ND	.40	.30	.22	.16	.12	ECQ-E2184KF
	.22	12.0	5.5	10.5	10.0	1.0	0.6	EF2224-ND	.54	.40	.29	.21	.16	ECQ-E2224KF
	.27	12.0	6.0	11.5	10.0	1.0	0.6	EF2274-ND	.64	.48	.34	.25	.19	ECQ-E2274KF
	.33	12.0	6.5	12.0	10.0	1.0	0.6	EF2334-ND	.58	.43	.32	.23	.19	ECQ-E2334KF
	.39	18.5	4.9	12.0	15.0	1.0	0.6	EF2394-ND	.74	.56	.41	.30	.24	ECQ-E2394KF
	.47	18.5	5.3	12.5	15.0	1.0	0.6	EF2474-ND	.58	.44	.32	.24	.19	ECQ-E2474KF
	.56	18.5	5.5	13.0	15.0	1.0	0.6	EF2564-ND	.66	.50	.37	.27	.21	ECQ-E2564KF
	.68	18.5	6.0	13.5	15.0	1.0	0.8	EF2684-ND	.92	.69	.51	.37	.29	ECQ-E2684KF
	.82	18.5	6.5	14.5	15.0	1.0	0.8	EF2824-ND	.70	.53	.39	.28	.22	ECQ-E2824KF
	1.0	18.5	7.4	15.0	15.0	1.0	0.8	EF2105-ND	.86	.64	.47	.34	.27	ECQ-E2105KF
	1.2	18.5	8.0	15.9	15.0	1.0	0.8	EF2125-ND	1.21	.91	.67	.48	.39	ECQ-E2125KF
	1.5	18.5	9.0	16.8	15.0	1.0	0.8	EF2155-ND	1.42	1.07	.81	.57	.48	ECQ-E2155KF
	1.8	26.0	7.5	15.5	22.5	1.0	0.8	EF2185-ND	1.20	.90	.68	.48	.40	ECQ-E2185KF
	2.2	26.0	8.5	16.3	22.5	1.0	0.8	EF2225-ND	1.72	1.30	.97	.69	.58	ECQ-E2225KF
	2.7	26.0	9.4	17.0	22.5	1.0	0.8	EF2275-ND	1.77	1.33	1.00	.71	.59	ECQ-E2275KF
	3.3	26.0	10.3	18.0	22.5	1.5	0.8	EF2335-ND	2.36	1.77	1.33	.95	.79	ECQ-E2335KF
	3.9	26.0	11.0	20.5	22.5	1.5	0.8	EF2395-ND	1.42	1.08	.82	.61	.53	ECQ-E2395KF
	4.7	26.0	12.0	21.5	22.5	1.5	0.8	EF2475-ND	1.59	1.21	.91	.69	.60	ECQ-E2475KF
	5.6	31.0	11.8	21.0	27.5	1.5	0.8	EF2565-ND	2.73	2.07	1.56	1.17	1.02	ECQ-E2565KF
	6.8	31.0	13.0	22.4	27.5	1.5	0.8	EF2685-ND	3.84	2.91	2.20	1.65	1.43	ECQ-E2685KF
	8.2	31.0	14.3	23.5	27.5	1.5	0.8	EF2825-ND	3.13	2.38	1.79	1.35	1.17	ECQ-E2825KF
	10.0	31.0	15.9	25.8	27.5	1.5	0.8	EF2106-ND	7.01	5.32	4.01	3.01	2.61	ECQ-E2106KF
400	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF4103-ND	.51	.38	.27	.20	.16	ECQ-E4103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF4123-ND	.29	.21	.15	.11	.09	ECQ-E4123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF4153-ND	.29	.21	.15	.11	.09	ECQ-E4153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF4183-ND	.29	.21	.15	.11	.09	ECQ-E4183KF
	.022	10.3	4.8	7.9	7.5	1.0	0.6	EF4223-ND	.53	.40	.28	.21	.16	ECQ-E4223KF
	.027	10.3	5.5	8.0	7.5	1.0	0.6	EF4273-ND	.56	.42	.30	.22	.17	ECQ-E4273KF
	.033	10.3	6.0	9.0	7.5	1.0	0.6	EF4333-ND	.57	.42	.30	.22	.17	ECQ-E4333KF
	.039	12.0	4.9	8.0	10.0	1.0	0.6	EF4393-ND	.40	.30	.21	.16	.12	ECQ-E4393KF
	.047	12.0	5.0	8.3	10.0	1.0	0.6	EF4473-ND	.60	.45	.32	.23	.18	ECQ-E4473KF
	.056	12.0	5.0	10.0	10.0	1.0	0.6	EF4563-ND	.65	.48	.35	.25	.20	ECQ-E4563KF
	.068	12.0	5.4	10.5	10.0	1.0	0.6	EF4683-ND	.68	.51	.36	.26	.21	ECQ-E4683KF
	.082	12.0	5.8	11.0	10.0	1.0	0.6	EF4823-ND	.72	.54	.38	.28	.22	ECQ-E4823KF
	.1	12.0	6.3	12.0	10.0	1.0	0.6	EF4104-ND	.53	.40	.28	.21	.16	ECQ-E4104KF
	.12	18.5	5.0	10.0	15.0	1.0	0.6	EF4124-ND	.58	.44	.32	.23	.19	ECQ-E4124KF
	.15	18.5	5.0	12.4	15.0	1.0	0.6	EF4154-ND	.60	.45	.33	.24	.19	ECQ-E4154KF
	.18	18.5	5.4	12.5	15.0	1.0	0.6	EF4184-ND	.85	.64	.47	.34	.27	ECQ-E4184KF
	.22	18.5	5.9	13.0	15.0	1.0	0.6	EF4224-ND	.90	.67	.50	.36	.29	ECQ-E4224KF
	.27	18.5	6.5	14.3	15.0	1.0	0.8	EF4274-ND	.88	.66	.48	.35	.28	ECQ-E4274KF
	.33	18.5	7.0	14.9	15.0	1.0	0.8	EF4334-ND	.95	.71	.52	.38	.30	ECQ-E4334KF
	.39	18.5	7.5	15.4	15.0	1.0	0.8	EF4394-ND	.88	.66	.48	.35	.28	ECQ-E4394KF
	.47	18.5	7.8	17.0	15.0	1.0	0.8	EF4474-ND	1.27	.95	.70	.51	.40	ECQ-E4474KF
	.56	26.0	6.5	16.0	22.5	1.0	0.8	EF4564-ND	1.01	.76	.57	.41	.34	ECQ-E4564KF
	.68	26.0	7.0	16.5	22.5	1.0	0.8	EF4684-ND	1.44	1.08	.81	.58	.48	ECQ-E4684KF
	.82	26.0	7.9	17.3	22.5	1.0	0.8	EF4824-ND	1.17	.88	.66	.47	.39	ECQ-E4824KF
	1.0	26.0	8.5	18.9	22.5	1.0	0.8	EF4105-ND	1.24	.93	.70	.50	.42	ECQ-E4105KF
	1.2	26.0	9.5	18.9	22.5	1.0	0.8	EF4125-ND	1.86	1.41	1.07	.80	.70	ECQ-E4125KF
	1.5	31.0	9.5	19.0	27.5	1.0	0.8	EF4155-ND	2.29	1.73	1.31	.98	.85	ECQ-E4155KF
	1.8	31.0	11.0	20.5	27.5	1.5	0.8	EF4185-ND	2.28	1.73	1.30	.98	.85	ECQ-E4185KF
	2.2	31.0	11.0	22.0	27.5	1.5	0.8	EF4225-ND	3.09	2.34	1.77	1.33	1.15	ECQ-E4225KF
630	.01	12.0	4.5	7.5	10.0	1.0	0.6	EF6103-ND	.54	.40	.29	.21	.16	ECQ-E6103KF
	.012	12.0	4.5	7.8	10.0	1.0	0.6	EF6123-ND	.43	.32	.23	.17	.13	ECQ-E6123KF
	.015	12.0	5.0	8.2	10.0	1.0	0.6	EF6153-ND	.59	.44	.31	.23	.18	ECQ-E6153KF
	.018	12.0	4.9	10.0	10.0	1.0	0.6	EF6183-ND	.48	.36	.26	.19	.15	ECQ-E6183KF
	.022	12.0	5.3	10.5	10.0	1.0	0.6	EF6223-ND	.63	.47	.34	.24	.19	ECQ-E6223KF
	.027	12.0	5.5	10.9	10.0	1.0	0.6	EF6273-ND	.50	.37	.27	.19	.15	ECQ-E6273KF
	.033	12.0	6.0	11.9	10.0	1.0	0.6	EF6333-ND	.59	.44	.31	.23	.18	ECQ-E6333KF
	.039	12.0	6.0	13.4	10.0	1.0	0.6	EF6393-ND	.51	.38	.27	.20	.15	ECQ-E6393KF
	.047	12.0	6.5	13.5	10.0	1.0	0.6	EF6473-ND	.69	.52	.37	.27	.21	ECQ-E6473KF
	.056	18.5	5.4	10.5	15.0	1.0	0.6	EF6563-ND	.51	.39	.28	.21	.17	ECQ-E6563KF
	.068	18.5	5.8	11.0	15.0	1.0	0.6	EF6683-ND	.67	.50	.37	.27	.22	ECQ-E6683KF
	.082	18.5	6.5	12.0	15.0	1.0	0.6	EF6823-ND	.70	.52	.39	.28	.22	ECQ-E6823KF
	.1	18.5	6.3	14.0	15.0	1.0	0.6	EF6104-ND	.85	.63	.47	.34	.27	ECQ-E6104KF
	.12	18.5	6.3	14.5	15.0	1.0	0.8	EF6124-ND	.61	.46	.34	.25	.20	ECQ-E6124KF
	.15	18.5	7.5	15.4	15.0	1.0	0.8	EF6154-ND	1.04	.78	.57	.42	.33	ECQ-E6154KF
	.18	18.5	8.0	16.0	15.0	1.0	0.8	EF6184-ND	.89	.66	.49	.36	.28	ECQ-E6184KF
	.22	18.5	9.0	16.5	15.0	1.0	0.8	EF6224-ND	1.06	.79	.59	.42	.34	ECQ-E6224KF
	.27	26.0	7.0	16.5	22.5	1.0	0.8	EF6274-ND	.90	.68	.51	.37	.31	ECQ-E6274KF
	.33	26.0	7.8	17.0	22.5	1.0	0.8	EF6334-ND	.92	.70	.52	.37	.31	ECQ-E6334KF
	.39	26.0	8.5	17.9	22.5	1.0	0.8	EF6394-ND	1.16	.87	.66	.47	.39	ECQ-E6394KF
	.47	26.0	9.3	18.5	22.5	1.0	0.8	EF6474-ND	1.58	1.19	.89	.64	.53	ECQ-E6474KF
	.56	26.0	10.0	20.0	22.5	1.5	0.8	EF6564-ND	1.82	1.37	1.03	.73	.61	ECQ-E6564KF
	.68	26.0	11.5	21.0	22.5	1.5	0.8	EF6684-ND	1.27	.97	.73	.55	.48	ECQ-E6684KF
	.82	31.0	11.3	20.5	27.5	1.5	0.8	EF6824-ND	2.05	1.56	1.18	.89	.77	ECQ-E6824KF
	1.0	31.0	12.5	21.9	27.5	1.5	0.8	EF6105-ND	2.99	2.27	1.71	1.29	1.12	ECQ-E6105KF
	1.2	31.0	13.5	23.0	27.5	1.5	0.8	EF6125-ND	3.16	2.40	1.81	1.36	1.18	ECQ-E6125KF
	1.5	31.0	15.3	24.7	27.5	1.5	0.8	EF6155-ND	2.21	1.68	1.27	.95	.82	ECQ-E6155KF
	1.8	31.0	16.8	27.0	27.5	1.5	0.8	EF6185-ND	2.45	1.86	1.41	1.06	.92	ECQ-E6185KF
	2.2	31.0	19.5	29.0	27.5	1.5	0.8	EF6225-ND	3.77	2.86	2.16	1.62	1.41	ECQ-E6225KF

Metallized Polyester Film Capacitors MKT 370/371/372/373

FEATURES: • Low-inductive wound cell of metallized (PETP) film • Potted with epoxy resin in a flame-retardant case • Radial leads of solder-coated wire • Withstands solvents and rinsing liquids • Small stand-off pips to allow removal of solder flux • Suitable for high density packaging **APPLICATIONS:** • Blocking and coupling • Bypass and energy reservoir **SPECIFICATIONS: Rated Temperature:** 85°C **Maximum Application Temperature:** 105°C



Volt. (DC)	Cap. (µF)	Toler-ance	Dimensions (mm)						Digi-Key Part No.	Pricing			BC Components Part No.
			b	h	l	P	l_t	$ød_t$		10	100	1,000	
MKT 370 Series													
63	.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1633-ND	1.08	7.20	54.00	2222 370 11563
	.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1635-ND	1.08	7.20	54.00	2222 370 11683
	.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1637-ND	1.08	7.20	54.00	2222 370 11823
	.10	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1621-ND	.98	6.56	49.20	2222 370 11104
	.12	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1623-ND	1.18	7.84	58.80	2222 370 11124
	.15	±5%	2.5	6.5	7.2	5.08	4.0	.50	3014PH-ND	1.76	11.72	87.90	2222 370 12154
	.15	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1625-ND	1.32	8.80	66.00	2222 370 11154
	.18	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1627-ND	1.46	9.76	73.20	2222 370 11184
	.22	±5%	3.5	8.0	7.2	5.08	4.0	.50	3015PH-ND	2.15	14.32	107.40	2222 370 12224
	.22	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1628-ND	1.61	10.72	80.40	2222 370 11224
	.27	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1629-ND	1.85	12.32	92.40	2222 370 11274
	.33	±5%	3.5	8.0	7.2	5.08	4.0	.50	3016PH-ND	2.72	18.16	136.20	2222 370 12334
	.33	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1630-ND	2.04	13.60	102.00	2222 370 11334
	.39	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1631-ND	2.33	15.52	116.40	2222 370 11394
	.47	±5%	3.5	8.0	7.2	5.08	4.0	.50	3017PH-ND	3.48	23.20	174.00	2222 370 12474
	.47	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1632-ND	2.59	17.28	129.60	2222 370 11474
	.56	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1634-ND	3.05	20.32	152.40	2222 370 11564
	.68	±5%	4.5	9.0	7.2	5.08	4.0	.50	3018PH-ND	4.68	31.20	234.00	2222 370 12684
	.68	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1636-ND	3.50	23.36	175.20	2222 370 11684
	.82	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1638-ND	3.70	24.64	184.80	2222 370 11824
	1.0	±5%	6.0	11.0	7.2	5.08	4.0	.50	3019PH-ND	5.07	33.80	253.50	2222 370 12105
	1.0	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1622-ND	4.06	27.04	202.80	2222 370 11105
	1.2*	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1624-ND	4.42	29.44	220.80	2222 370 11125
	1.5*	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1626-ND	4.44	29.60	222.00	2222 370 11155
100	.012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1640-ND	.94	6.24	46.80	2222 370 21123
	.015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1642-ND	.96	6.40	48.00	2222 370 21153
	.018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1644-ND	.96	6.40	48.00	2222 370 21183
	.022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1646-ND	.98	6.56	49.20	2222 370 21223
	.027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1648-ND	1.01	6.72	50.40	2222 370 21273
	.033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1650-ND	1.03	6.88	51.60	2222 370 21333
	.039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1652-ND	1.03	6.88	51.60	2222 370 21393
	.047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3011PH-ND	1.42	9.44	70.80	2222 370 22473
	.047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1654-ND	1.06	7.04	52.80	2222 370 21473
	.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1656-ND	1.27	8.48	63.60	2222 370 21563
	.068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3012PH-ND	1.83	12.20	91.50	2222 370 22683
	.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1657-ND	1.37	9.12	68.40	2222 370 21683
	.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1658-ND	1.46	9.76	73.20	2222 370 21823
	.10	±5%	3.5	8.0	7.2	5.08	4.0	.50	3013PH-ND	2.07	13.82	103.65	2222 370 22104
	.10	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1639-ND	1.56	10.40	78.00	2222 370 21104
	.12	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1641-ND	1.68	11.20	84.00	2222 370 21124
	.15	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1643-ND	1.85	12.32	92.40	2222 370 21154
	.18	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1645-ND	2.04	13.60	102.00	2222 370 21184
	.22	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1647-ND	2.21	14.72	110.40	2222 370 21224
	.27	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1649-ND	2.45	16.32	122.40	2222 370 21274
	.33	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1651-ND	2.64	17.60	132.00	2222 370 21334
	.39	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1653-ND	3.00	20.00	150.00	2222 370 21394
	.47	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1655-ND	3.26	21.76	163.20	2222 370 21474
250	.0047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3005PH-ND	1.22	8.12	60.90	2222 370 42472
	.0068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3006PH-ND	1.22	8.12	60.90	2222 370 42682
	.010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3007PH-ND	1.25	8.30	62.25	2222 370 42103
	.015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3008PH-ND	1.29	8.62	64.65	2222 370 42153
	.022	±5%	3.5	8.0	7.2	5.08	4.0	.50	3009PH-ND	1.46	9.76	73.20	2222 370 42223
	.033	±5%	3.5	8.0	7.2	5.08	4.0	.50	3010PH-ND	1.71	11.38	85.35	2222 370 42333
400	.0010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3001PH-ND	1.22	8.12	60.90	2222 370 52102
	.0010	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1659-ND	.91	6.08	45.60	2222 370 51102
	.0012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1661-ND	.91	6.08	45.60	2222 370 51122
	.0015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3002PH-ND	1.22	8.12	60.90	2222 370 52152
	.0015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1663-ND	.91	6.08	45.60	2222 370 51152
	.0018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1665-ND	.91	6.08	45.60	2222 370 51182
	.0022	±5%	2.5	6.5	7.2	5.08	4.0	.50	3003PH-ND	1.22	8.12	60.90	2222 370 52222
	.0022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1667-ND	.91	6.08	45.60	2222 370 51222
	.0027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1669-ND	.91	6.08	45.60	2222 370 51272
	.0033	±5%	2.5	6.5	7.2	5.08	4.0	.50	3004PH-ND	1.22	8.12	60.90	2222 370 52332
	.0033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1671-ND	.91	6.08	45.60	2222 370 51332
	.0039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1673-ND	.94	6.24	46.80	2222 370 51392
	.0047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1675-ND	.96	6.40	48.00	2222 370 51472
	.0056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1677-ND	.96	6.40	48.00	2222 370 51562
	.0068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1678-ND	.98	6.56	49.20	2222 370 51682
	.0082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1679-ND	1.01	6.72	50.40	2222 370 51822
	.01	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1660-ND	1.03	6.88	51.60	2222 370 51103
	.012	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1662-ND	1.03	6.88	51.60	2222 370 51123
	.015	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1664-ND	1.06	7.04	52.80	2222 370 51153
	.018	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1666-ND	1.10	7.36	55.20	2222 370 51183
	.022	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1668-ND	1.18	7.84	58.80	2222 370 51223
	.027	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1670-ND	1.30	8.64	64.80	2222 370 51273
	.033	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1672-ND	1.39	9.28	69.60	2222 370 51333
	.039	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1674-ND	1.49	9.92	74.40	2222 370 51393
	.047	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1676-ND	1.58	10.56	79.20	2222 370 51473
MKT 371 Series													
63	.056	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1688-ND	1.56	10.40	78.00	2222 371 11563
	.068	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1690-ND	1.58	10.56	79.20	2222 371 11683
	.082	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1692-ND	1.58	10.56	79.20	2222 371 11823
	.12	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1680-ND	1.66	11.04	82.80	2222 371 11124
	.15	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1681-ND	1.78	11.84	88.80	2222 371 11154
	.18	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1682-ND	1.92	12.80	96.00	2222 371 11184
	.22	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1683-ND	2.06	13.76	103.20	2222 371 11224
	.27	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1684-ND	2.28	15.20	114.00	2222 371 11274
	.33	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1685-ND	2.52	16.80	126.00	2222 371 11334
	.39	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1686-ND	2.76	18.40	138.00	2222 371 11394
	.47	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1687-ND	3.10	20.64	154.80	2222 371 11474
	.56	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1689-ND	3.46	23.04	172.80	2222 371 11564
	.68	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1691-ND	3.84	25.60	192.00	2222 371 11684
	.82	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1693-ND	4.20	28.00	210.00	2222 371 11824
100	.018	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1697-ND	1.56	10.40	78.00	2222 371 21183
	.022	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1699-ND	1.56	10.40	78.00	2222 371 21223
	.027	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1701-ND	1.56	10.40	78.00	2222 371 21273
	.033	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1703-ND	1.56	10.40	78.00	2222 371 21333
	.039	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1705-ND	1.56	10.40	78.00	2222 371 21393
	.047	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1707-ND	1.56	10.40	78.00	2222 371 21473
	.056	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1709-ND	1.58	10.56	79.20	2222 371 21563
	.068	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1710-ND	1.63	10.88	81.60	2222 371 21683
	.082	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1711-ND	1.66	11.04	82.80	2222 371 21823
100	.10	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1694-ND	1.66	11.04	82.80	2222 371 21104
	.12	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1695-ND	1.68	11.20	84.00	2222 371 21124
	.15	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1696-ND	1.85	12.32	92.40	2222 371 21154
	.18	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1698-ND	1.97	13.12	98.40	2222 371 21184
	.22	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1700-ND	2.14	14.24	106.80	2222 371 21224
	.27	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1702-ND	2.35	15.68	117.60	2222 371 21274
	.33	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1704-ND	2.64	17.60	132.00	2222 371 21334
	.39	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1706-ND	2.90	19.36	145.20	2222 371 21394
	.47	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1708-ND	3.24	21.60	162.00	2222 371 21474
250	.0082	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1724-ND	1.90	12.64	94.80	2222 371 41822
	.01	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1712-ND	1.90	12.64	94.80	2222 371 41103
	.012	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1714-ND	1.90	12.64	94.80	2222 371 41123
	.015	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1715-ND	1.90	12.64	94.80	2222 371 41153
	.018	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1716-ND	1.92	12.80	96.00	2222 371 41183
	.022	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1717-ND	1.92	12.80	96.00	2222 371 41223
	.027	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1718-ND	1.94	12.96	97.20	2222 371 41273
	.033	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1719-ND	1.94	12.96	97.20	2222 371 41333
	.039	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1720-ND	1.97	13.12	98.40	2222 371 41393
	.047	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1721-ND	1.99	13.28	99.60	2222 371 41473
	.056	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1722-ND	2.02	13.44	100.80	2222 371 41563
	.068	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1723-ND	2.02	13.44	100.80	2222 371 41683
	.082	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1725-ND	2.06	13.76	103.20	2222 371 41823
	.10	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1713-ND	2.11	14.08	105.60	2222 371 41104
400	.0039	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1729-ND	1.87	12.48	93.60	2222 371 51392
	.0047	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1730-ND	1.87	12.48	93.60	2222 371 51472
	.0056	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1731-ND	1.87	12.48	93.60	2222 371 51562
	.0068	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1732-ND	1.87	12.48	93.60	2222 371 51682
	.0082	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1733-ND	1.90	12.64	94.80	2222 371 51822
	.01	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1726-ND	1.90	12.64	94.80	2222 371 51103
	.012	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1727-ND	1.90	12.64	94.80	2222 371 51123
	.015	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1728-ND	1.90	12.64	94.80	2222 371 51153
MKT 372 Series													
100	.10	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1734-ND	2.02	13.44	100.80	2222 372 21104
	.12	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1735-ND	2.04	13.60	102.00	2222 372 21124
	.15	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1736-ND	2.11	14.08	105.60	2222 372 21154
	.18	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1737-ND	2.18	14.56	109.20	2222 372 21184
	.22	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1738-ND	2.30	15.36	115.20	2222 372 21224
	.27	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1739-ND	2.45	16.32	122.40	2222 372 21274
	.33	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1740-ND	2.64	17.60	132.00	2222 372 21334
	.39	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1741-ND	2.88	19.20	144.00	2222 372 21394
	.47	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1742-ND	3.14	20.96	157.20	2222 372 21474
250	.047	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1746-ND	1.94	12.96	97.20	2222 372 41473
	.056	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1747-ND	1.94	12.96	97.20	2222 372 41563
	.068	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1748-ND	1.97	13.12	98.40	2222 372 41683
	.082	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1749-ND	1.99	13.28	99.60	2222 372 41823
	.10	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1743-ND	2.02	13.44	100.80	2222 372 41104
	.12	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1744-ND	2.04	13.60	102.00	2222 372 41124
	.15	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1745-ND	2.18	14.56	109.20	2222 372 41154
400	.0047	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1758-ND	1.92	12.80	96.00	2222 372 51472
	.0056	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1760-ND	1.92	12.80	96.00	2222 372 51562
	.0068	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1761-ND	1.92	12.80	96.00	2222 372 51682
	.0082	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1762-ND	1.92	12.80	96.00	2222 372 51822
	.01	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1750-ND	1.92	12.80	96.00	2222 372 51103
	.012	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1751-ND	1.92	12.80	96.00	2222 372 51123
	.015	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1752-ND	1.92	12.80	96.00	2222 372 51153
	.018	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1753-ND	1.97	13.12	98.40	2222 372 51183
	.022	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1754-ND	1.92	12.80	96.00	2222 372 51223
	.027	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1755-ND	1.92	12.80	96.00	2222 372 51273
	.033	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1756-ND	1.92	12.80	96.00	2222 372 51333
	.039	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1757-ND	1.94	12.96	97.20	2222 372 51393
	.047	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1759-ND	1.94	12.96	97.20	2222 372 51473
MKT 373 Series													
100	.33	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1768-ND	2.88	19.20	144.00	2222 373 21334
	.39	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1769-ND	2.98	19.84	148.80	2222 373 21394
	.47	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1770-ND	3.07	20.48	153.60	2222 373 21474
	.56	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1771-ND	3.46	23.04	172.80	2222 373 21564
	.68	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1772-ND	3.84	25.60	192.00	2222 373 21684
	.82	±10%	6.0	12.0	17.5	15.0	5.0	.80	BC1773-ND	4.20	28.00	210.00	2222 373 21824
	1.0	±10%	6.0	12.0	17.5	15.0	5.0	.80	BC1763-ND	4.58	30.56	229.20	2222 373 21105
	1.2	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1764-ND	5.18	34.56	259.20	2222 373 21125
	1.5	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1765-ND	6.12	40.80	306.00	2222 373 21155
	1.8	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1766-ND	7.27	48.48	363.60	2222 373 21185
	2.2	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1767-ND	8.62	57.44	430.80	2222 373 21225
250	1.2	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1791-ND	6.10	40.64	304.80	2222 373 43125
	2.7	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1792-ND	11.93	79.52	596.40	2222 373 43275
	.15	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1775-ND	2.30	15.36	115.20	2222 373 41154
	.18	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1777-ND	2.50	16.64	124.80	2222 373 41184
	.22	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1779-ND	2.69	17.92	134.40	2222 373 41224
	.27	±10%	6.0	12.0	17.5	15.0	5.0	.80	BC1781-ND	2.88	19.20	144.00	2222 373 41274
	.33	±10%	6.0	12.0	17.5	15.0	5.0	.80	BC1782-ND	3.07	20.48	153.60	2222 373 41334
	.39	±10%	6.0	12.0	17.5	15.0	5.0	.80	BC1784-ND	3.46	23.04	172.80	2222 373 41394
	.47	±10%	6.0	12.0	17.5	15.0	5.0	.80	BC1786-ND	3.84	25.60	192.00	2222 373 41474
	.56	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1788-ND	4.20	28.00	210.00	2222 373 41564
	.68	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1789-ND	4.42	29.44	220.80	2222 373 41684
	.82	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1790-ND	4.58	30.56	229.20	2222 373 41824
	1.0	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1774-ND	4.97	33.12	248.40	2222 373 41105
	1.5	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1776-ND	7.66	51.04	382.80	2222 373 41155
	1.8	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1778-ND	9.19	61.28	459.60	2222 373 41185
	2.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1780-ND	10.73	71.52	536.40	2222 373 41225
	3.3	±10%	13.0	23.0	31.0	27.5	5.0	.80	BC1783-ND	14.38	95.84	718.80	2222 373 41335
	3.9	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1785-ND	16.85	112.32	842.40	2222 373 41395
	4.7	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1787-ND	20.23	134.88	1011.60	2222 373 41475
400	.047	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1801-ND	2.50	16.64	124.80	2222 373 51473
	.056	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1802-ND	2.54	16.96	127.20	2222 373 51563
	.068	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1803-ND	2.59	17.28	129.60	2222 373 51683
	.082	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1805-ND	2.64	17.60	132.00	2222 373 51823
	.10	±10%	5.0	11.0	17.5	15.0	5.0	.80	BC1793-ND	2.71	18.08	135.60	2222 373 51104
	.12	±10%	6.0	12.0	17.5	15.0	5.0	.80	BC1794-ND	3.07	20.48	153.60	2222 373 51124
	.15	±10%	6.0	12.0	17.5	15.0	5.0	.80	BC1795-ND	3.46	23.04	172.80	2222 373 51154
	.18	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1797-ND	3.84	25.60	192.00	2222 373 51184
	.22	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1798-ND	4.20	28.00	210.00	2222 373 51224
	.27	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1799-ND	4.80	32.00	240.00	2222 373 51274
	.33	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1800-ND	5.35	35.68	267.60	2222 373 51334
	.39	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1808-ND	5.64	37.60	282.00	2222 373 53394
	.47	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1809-ND	5.81	38.72	290.40	2222 373 53474
	.56	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1810-ND	6.77	45.12	338.40	2222 373 53564
	.68	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1804-ND	7.66	51.04	382.80	2222 373 51684
	.82	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1811-ND	8.28	55.20	414.00	2222 373 53824
	1.0	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1806-ND	8.71	58.08	435.60	2222 373 53105
	1.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1807-ND	10.99	73.28	549.60	2222 373 53125
	1.5	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1796-ND	13.39	89.28	669.60	2222 373 51155

*U_{Rdc} = 50V and U_{Rac} = 32V.

Panasonic® PPS Film Capacitors - ECHS

Non-inductive construction using PPS film as designed for high heat resistance and high frequency applications.

Features:

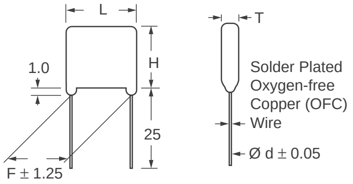
- Wide operating temperature range -40 to +125°C
- Excellent temperature coefficient -100PPM/°C
- Excellent frequency characteristics

Applications:

- Automotive
- Oscillation circuits

Electrical Specifications:

- Temperature Range: -40°C to +125°C
- Rated Voltage: 50V DC, 100VDC
- Capacitance Range: 0.0001 to 0.47µF
- Capacitance Tolerance: ±2%(G) & ±5%(J)
- Dissipation Factor: 0.3% max. at 1kHz and 20°C
- Withstand Voltage: 1-5 seconds at 250% of rated voltage between terminals
- Insulation Resistance: 45,000 MΩ min., for values equal to or less than .33µF. 15,000 MΩ/µF min., for greater than .33µF (20°C, 100VDC, 60s)



WV	Cap.	Toler-	Dimensions (mm)					Digi-Key	Price Each				Panasonic
DC	µF	ance	L	T	H	F	d	Part No.	1	10	100	1,000	Part No.
50	.001	2%	8.5	4.0	7.6	5.0	0.60	PS1H102G-ND	.80	.69	.58	.35	ECH-S1H102GZ
	.0012	2%	8.5	4.0	7.8	5.0	0.60	PS1H122G-ND	.80	.69	.58	.35	ECH-S1H122GZ
	.0015	2%	8.5	4.0	7.6	5.0	0.60	PS1H152G-ND	.80	.69	.58	.35	ECH-S1H152GZ
	.0018	2%	8.5	4.0	7.6	5.0	0.60	PS1H182G-ND	.80	.69	.58	.35	ECH-S1H182GZ
	.0022	2%	8.5	4.0	7.8	5.0	0.60	PS1H222G-ND	.80	.69	.58	.35	ECH-S1H222GZ
	.0027	2%	8.5	4.0	7.8	5.0	0.60	PS1H272G-ND	.80	.69	.58	.35	ECH-S1H272GZ
	.0033	2%	8.5	4.0	8.0	5.0	0.60	PS1H332G-ND	.80	.69	.58	.35	ECH-S1H332GZ
	.0039	2%	8.5	4.0	7.8	5.0	0.60	PS1H392G-ND	.80	.69	.58	.35	ECH-S1H392GZ
	.0047	2%	8.5	4.0	8.0	5.0	0.60	PS1H472G-ND	.80	.69	.58	.35	ECH-S1H472GZ
	.0056	2%	8.5	4.0	8.2	5.0	0.60	PS1H562G-ND	.82	.71	.59	.36	ECH-S1H562GZ
	.0068	2%	8.5	4.0	7.6	5.0	0.60	PS1H682G-ND	.85	.73	.61	.37	ECH-S1H682GZ
	.0082	2%	8.5	4.0	7.6	5.0	0.60	PS1H822G-ND	.86	.75	.62	.37	ECH-S1H822GZ
	.01	2%	8.5	4.0	7.6	5.0	0.60	PS1H103G-ND	.89	.77	.64	.38	ECH-S1H103GZ
	.012	2%	8.5	4.0	8.0	5.0	0.60	PS1H123G-ND	.97	.84	.70	.42	ECH-S1H123GZ
	.015	2%	12.0	4.5	7.8	7.5	0.60	PS1H153G-ND	1.06	.91	.76	.46	ECH-S1H153GZ
	.018	2%	12.0	4.5	8.0	7.5	0.60	PS1H183G-ND	1.16	1.00	.83	.50	ECH-S1H183GZ
	.022	2%	12.0	4.5	8.2	7.5	0.60	PS1H223G-ND	1.26	1.08	.90	.54	ECH-S1H223GZ
	.027	2%	12.0	4.5	10.4	7.5	0.60	PS1H273G-ND	1.38	1.19	.99	.60	ECH-S1H273GZ
	.033	2%	12.0	4.5	10.6	7.5	0.60	PS1H333G-ND	1.51	1.29	1.08	.65	ECH-S1H333GZ
	.039	2%	12.0	5.0	10.4	7.5	0.60	PS1H393G-ND	1.62	1.40	1.16	.70	ECH-S1H393GZ
	.047	2%	12.0	5.0	10.8	7.5	0.60	PS1H473G-ND	1.75	1.51	1.26	.75	ECH-S1H473GZ
	.056	2%	12.0	5.5	11.0	7.5	0.60	PS1H563G-ND	1.94	1.67	1.39	.84	ECH-S1H563GZ
	.068	2%	14.5	5.0	11.2	10.00	0.60	PS1H683G-ND	2.14	1.83	1.53	.92	ECH-S1H683GZ
	.082	2%	14.5	5.5	11.6	10.00	0.60	PS1H823G-ND	2.33	2.00	1.67	1.00	ECH-S1H823GZ
	.1	2%	14.5	6.0	12.0	10.00	0.60	PS1H104G-ND	2.54	2.18	1.82	1.09	ECH-S1H104GZ
	.12	2%	14.5	6.5	12.4	10.00	0.60	PS1H124G-ND	2.95	2.53	2.11	1.27	ECH-S1H124GZ
	.15	2%	17.0	6.5	12.4	12.50	0.60	PS1H154G-ND	3.39	2.91	2.42	1.45	ECH-S1H154GZ
	.18	2%	17.0	6.5	14.0	12.50	0.60	PS1H184G-ND	3.81	3.27	2.72	1.63	ECH-S1H184GZ
	.22	2%	17.0	7.0	14.4	12.50	0.60	PS1H224G-ND	4.31	3.69	3.08	1.85	ECH-S1H224GZ
	.27	2%	17.0	7.5	15.2	12.50	0.80	PS1H274G-ND	4.87	4.17	3.48	2.09	ECH-S1H274GZ
	.33	2%	17.0	8.5	15.8	12.50	0.80	PS1H334G-ND	5.46	4.69	3.91	2.34	ECH-S1H334GZ
	.39	2%	17.0	9.0	16.4	12.50	0.80	PS1H394G-ND	6.05	5.19	4.33	2.59	ECH-S1H394GZ
	.47	2%	17.0	10.0	17.2	12.50	0.80	PS1H474G-ND	6.70	5.75	4.79	2.87	ECH-S1H474GZ
50	.001	5%	8.5	4.0	7.6	5.0	0.60	PS1H102J-ND	.35	.31	.26	.16	ECH-S1H102JZ
	.0012	5%	8.5	4.0	7.8	5.0	0.60	PS1H122J-ND	.35	.31	.26	.16	ECH-S1H122JZ
	.0015	5%	8.5	4.0	7.6	5.0	0.60	PS1H152J-ND	.35	.31	.26	.16	ECH-S1H152JZ
	.0018	5%	8.5	4.0	7.6	5.0	0.60	PS1H182J-ND	.35	.31	.26	.16	ECH-S1H182JZ
	.0022	5%	8.5	4.0	7.8	5.0	0.60	PS1H222J-ND	.35	.31	.26	.16	ECH-S1H222JZ
	.0027	5%	8.5	4.0	7.8	5.0	0.60	PS1H272J-ND	.35	.31	.26	.16	ECH-S1H272JZ
	.0033	5%	8.5	4.0	8.0	5.0	0.60	PS1H332J-ND	.35	.31	.26	.16	ECH-S1H332JZ
	.0039	5%	8.5	4.0	7.8	5.0	0.60	PS1H392J-ND	.35	.31	.26	.16	ECH-S1H392JZ
	.0047	5%	8.5	4.0	8.0	5.0	0.60	PS1H472J-ND	.35	.31	.26	.16	ECH-S1H472JZ
	.0056	5%	8.5	4.0	8.2	5.0	0.60	PS1H562J-ND	.36	.32	.26	.16	ECH-S1H562JZ
	.0068	5%	8.5	4.0	7.6	5.0	0.60	PS1H682J-ND	.36	.32	.26	.16	ECH-S1H682JZ
	.0082	5%	8.5	4.0	7.6	5.0	0.60	PS1H822J-ND	.37	.32	.27	.16	ECH-S1H822JZ
	.01	5%	8.5	4.0	7.8	5.0	0.60	PS1H103J-ND	.37	.32	.27	.16	ECH-S1H103JZ
	.012	5%	8.5	4.0	8.0	5.0	0.60	PS1H123J-ND	.42	.37	.31	.19	ECH-S1H123JZ
	.015	5%	12.0	4.5	7.8	7.5	0.60	PS1H153J-ND	.48	.42	.35	.21	ECH-S1H153JZ
	.018	5%	12.0	4.5	8.0	7.5	0.60	PS1H183J-ND	.50	.44	.36	.22	ECH-S1H183JZ
	.022	5%	12.0	4.5	8.2	7.5	0.60	PS1H223J-ND	.59	.51	.43	.26	ECH-S1H223JZ
	.027	5%	12.0	4.5	10.4	7.5	0.60	PS1H273J-ND	.63	.55	.46	.28	ECH-S1H273JZ
	.033	5%	12.0	4.5	10.6	7.5	0.60	PS1H333J-ND	.67	.58	.48	.29	ECH-S1H333JZ
	.039	5%	12.0	5.0	10.4	7.5	0.60	PS1H393J-ND	.69	.60	.50	.30	ECH-S1H393JZ
	.047	5%	12.0	5.0	10.8	7.5	0.60	PS1H473J-ND	.71	.61	.51	.31	ECH-S1H473JZ
	.056	5%	12.0	5.5	11.0	7.5	0.60	PS1H563J-ND	.82	.70	.59	.35	ECH-S1H563JZ
	.068	5%	14.5	5.0	11.2	10.00	0.60	PS1H683J-ND	.92	.79	.66	.40	ECH-S1H683JZ
	.082	5%	14.5	5.5	11.6	10.00	0.60	PS1H823J-ND	1.02	.88	.73	.44	ECH-S1H823JZ
	.1	5%	14.5	6.0	12.0	10.00	0.60	PS1H104J-ND	1.12	.96	.80	.48	ECH-S1H104JZ
	.12	5%	14.5	6.5	12.4	10.00	0.60	PS1H124J-ND	1.34	1.15	.96	.58	ECH-S1H124JZ
	.15	5%	17.0	6.5	12.4	12.50	0.60	PS1H154J-ND	1.57	1.35	1.12	.68	ECH-S1H154JZ
	.18	5%	17.0	6.5	14.0	12.50	0.60	PS1H184J-ND	1.81	1.55	1.29	.78	ECH-S1H184JZ
	.22	5%	17.0	7.0	14.4	12.50	0.60	PS1H224J-ND	2.05	1.77	1.47	.88	ECH-S1H224JZ
	.27	5%	17.0	7.5	15.2	12.50	0.80	PS1H274J-ND	2.26	1.94	1.62	.97	ECH-S1H274JZ
	.33	5%	17.0	8.5	15.8	12.50	0.80	PS1H334J-ND	2.52	2.16	1.80	1.08	ECH-S1H334JZ
	.39	5%	17.0	9.0	16.4	12.50	0.80	PS1H394J-ND	2.83	2.43	2.03	1.22	ECH-S1H394JZ
	.47	5%	17.0	10.0	17.2	12.50	0.80	PS1H474J-ND	3.17	2.72	2.27	1.36	ECH-S1H474JZ

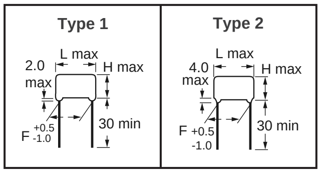
(Continued)

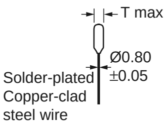
Panasonic PPS Film Capacitors - ECHS *(Cont.)*

WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	d	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
100	.0001	5%	8.5	4.0	6.5	5.0	0.60	PS1101J-ND	.60	.51	.43	.26	ECH-S1101JZ
	.00012	5%	8.5	4.0	6.5	5.0	0.60	PS1121J-ND	.60	.51	.43	.26	ECH-S1121JZ
	.00015	5%	8.5	4.0	6.5	5.0	0.60	PS1151J-ND	.60	.51	.43	.26	ECH-S1151JZ
	.00018	5%	8.5	4.0	6.5	5.0	0.60	PS1181J-ND	.60	.51	.43	.26	ECH-S1181JZ
	.00022	5%	8.5	4.0	6.5	5.0	0.60	PS1221J-ND	.60	.51	.43	.26	ECH-S1221JZ
	.00027	5%	8.5	4.0	6.5	5.0	0.60	PS1271J-ND	.60	.51	.43	.26	ECH-S1271JZ
	.00033	5%	8.5	4.0	6.5	5.0	0.60	PS1331J-ND	.60	.51	.43	.26	ECH-S1331JZ
	.00039	5%	8.5	4.0	6.5	5.0	0.60	PS1391J-ND	.60	.51	.43	.26	ECH-S1391JZ
	.00047	5%	8.5	4.0	6.5	5.0	0.60	PS1471J-ND	.60	.51	.43	.26	ECH-S1471JZ
	.00056	5%	8.5	4.0	6.5	5.0	0.60	PS1561J-ND	.60	.51	.43	.26	ECH-S1561JZ
	.00068	5%	8.5	4.0	6.5	5.0	0.60	PS1681J-ND	.60	.51	.43	.26	ECH-S1681JZ
	.00082	5%	8.5	4.0	6.5	5.0	0.60	PS1821J-ND	.60	.51	.43	.26	ECH-S1821JZ
	.001	5%	10.0	4.5	7.0	5.0	0.60	PS1102J-ND	.39	.34	.28	.17	ECH-S1102JZ
	.0012	5%	10.0	4.5	7.0	5.0	0.60	PS1122J-ND	.39	.34	.28	.17	ECH-S1122JZ
	.0015	5%	10.0	4.5	7.0	5.0	0.60	PS1152J-ND	.39	.34	.28	.17	ECH-S1152JZ
	.0018	5%	10.0	4.5	7.0	5.0	0.60	PS1182J-ND	.39	.34	.28	.17	ECH-S1182JZ
	.0022	5%	10.0	4.5	7.5	5.0	0.60	PS1222J-ND	.39	.34	.28	.17	ECH-S1222JZ
	.0027	5%	10.0	4.5	7.0	5.0	0.60	PS1272J-ND	.39	.34	.28	.17	ECH-S1272JZ
	.0033	5%	10.0	4.5	7.5	5.0	0.60	PS1332J-ND	.39	.34	.28	.17	ECH-S1332JZ
	.0039	5%	10.0	4.5	7.0	5.0	0.60	PS1392J-ND	.39	.34	.28	.17	ECH-S1392JZ
	.0047	5%	10.0	5.0	7.5	5.0	0.60	PS1472J-ND	.40	.35	.29	.18	ECH-S1472JZ
	.0056	5%	12.0	4.5	8.0	7.5	0.60	PS1562J-ND	.41	.36	.30	.18	ECH-S1562JZ
	.0068	5%	12.0	4.5	7.8	7.5	0.60	PS1682J-ND	.44	.38	.32	.19	ECH-S1682JZ
	.0082	5%	12.0	4.5	8.0	7.5	0.60	PS1822J-ND	.47	.40	.34	.20	ECH-S1822JZ
	.01	5%	12.0	4.5	8.0	7.5	0.60	PS1103J-ND	.49	.43	.36	.22	ECH-S1103JZ
	.012	5%	12.0	5.0	8.2	7.5	0.60	PS1123J-ND	.54	.47	.39	.24	ECH-S1123JZ
	.015	5%	12.0	5.0	8.4	7.5	0.60	PS1153J-ND	.60	.51	.43	.26	ECH-S1153JZ
	.018	5%	12.0	5.5	8.8	7.5	0.60	PS1183J-ND	.65	.56	.47	.28	ECH-S1183JZ
	.022	5%	12.0	5.0	10.8	7.5	0.60	PS1223J-ND	.70	.61	.51	.31	ECH-S1223JZ
	.027	5%	12.0	5.5	11.2	7.5	0.60	PS1273J-ND	.74	.64	.53	.32	ECH-S1273JZ
	.033	5%	14.5	5.5	11.2	10.0	0.60	PS1333J-ND	.79	.68	.57	.34	ECH-S1333JZ
	.039	5%	14.5	6.0	11.6	10.0	0.60	PS1393J-ND	.83	.72	.60	.36	ECH-S1393JZ
	.047	5%	14.5	6.0	11.8	10.0	0.60	PS1473J-ND	.88	.76	.63	.38	ECH-S1473JZ
	.056	5%	14.5	6.5	12.2	10.0	0.60	PS1563J-ND	.98	.85	.71	.43	ECH-S1563JZ
	.068	5%	17.0	6.5	12.2	12.5	0.60	PS1683J-ND	1.11	.96	.80	.48	ECH-S1683JZ
	.082	5%	17.0	6.5	13.8	12.5	0.60	PS1823J-ND	1.23	1.05	.88	.53	ECH-S1823JZ
	.1	5%	17.0	7.0	14.2	12.5	0.60	PS1104J-ND	1.37	1.18	.98	.59	ECH-S1104JZ
	.12	5%	17.0	7.5	14.8	12.5	0.60	PS1124J-ND	1.62	1.39	1.16	.70	ECH-S1124JZ
	.15	5%	20.5	7.5	15.0	15.0	0.80	PS1154J-ND	1.91	1.64	1.37	.82	ECH-S1154JZ
	.18	5%	20.5	7.5	15.6	15.0	0.80	PS1184J-ND	2.17	1.87	1.56	.93	ECH-S1184JZ
	.22	5%	20.5	8.5	16.2	15.0	0.80	PS1224J-ND	2.48	2.13	1.77	1.06	ECH-S1224JZ
	.27	5%	20.5	9.0	17.6	15.0	0.80	PS1274J-ND	2.76	2.37	1.98	1.19	ECH-S1274JZ
	.33	5%	20.5	10.0	18.4	15.0	0.80	PS1334J-ND	3.09	2.65	2.21	1.32	ECH-S1334JZ
	.39	5%	20.5	10.5	19.2	15.0	0.80	PS1394J-ND	3.37	2.90	2.41	1.45	ECH-S1394JZ
	.47	5%	20.5	11.5	20.2	15.0	0.80	PS1474J-ND	3.78	3.24	2.70	1.62	ECH-S1474JZ

Panasonic Metallized Polyester/Polypropylene Film Capacitors

ECHAX Type – Equipped with a Safety Mechanism





Features:
- Non-inductive construction
- Excellent safety characteristics
- Flame-retardant epoxy resin dipped enclosure
- Small and compact

Application:
- Motor running
- Fluorescent lamp ballast

Electrical Specifications:
- Temperature Range: -25°C to +70°C
- Rated Voltage: 180, 220 and 250VAC
- Capacitance Range: 1.0 to 6.0µF
- Capacitance Tolerance: ±5%(J)
- Dissipation Factor: 0.4% max. at 50/60Hz and 20°C
- Withstand Voltage: Between Terminals; VAC (rated voltage) x 175% 60s. Between Terminals to Enclosure; 2000VAC 60s
- Insulation Resistance: Between Terminals; 1000Ω Fmin. (20°C 100VDC 60s). Between Terminals to Enclosure; 1000MΩmin. (20°C 500 VDC 60s)

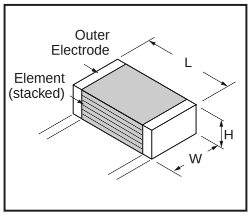
WV AC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	Type	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
180	1.0	5%	26.5	8.5	17.5	22.5	1	P10937-ND	3.00	2.57	2.02	1.29	ECH-A18105JX
	2.0	5%	26.5	11.5	21.0	22.5	1	P10938-ND	4.04	3.47	2.72	1.74	ECH-A18205JX
	3.0	5%	26.5	14.0	24.0	22.5	1	P10939-ND	5.07	4.35	3.41	2.18	ECH-A18305JX
	4.0	5%	31.5	14.5	24.0	27.5	1	P10940-ND	6.00	5.15	4.03	2.58	ECH-A18405JX
	5.0	5%	31.5	16.5	26.0	27.5	1	P10941-ND	6.87	5.89	4.62	2.95	ECH-A18505JX
	6.0	5%	37.0	16.5	25.5	32.5	1	P10942-ND	8.46	7.25	5.68	3.63	ECH-A18605JX
220	1.0	5%	26.5	10.0	19.5	22.5	1	P10943-ND	3.14	2.69	2.11	1.35	ECH-A22105JX
	2.0	5%	26.5	14.0	23.5	22.5	1	P10944-ND	4.36	3.74	2.93	1.87	ECH-A22205JX
	3.0	5%	31.5	15.5	25.0	27.5	1	P10945-ND	5.24	4.49	3.52	2.25	ECH-A22305JX
	4.0	5%	37.0	16.0	25.5	32.5	1	P10946-ND	6.55	5.62	4.40	2.81	ECH-A22405JX
	5.0	5%	37.0	18.0	27.5	32.5	1	P10947-ND	7.53	6.46	5.06	3.23	ECH-A22505JX
	6.0	5%	37.0	19.5	29.5	32.5	1	P10948-ND	8.45	7.25	5.68	3.63	ECH-A22605JX
250	1.0	5%	26.5	12.0	21.5	22.5	1	P10949-ND	3.27	2.81	2.20	1.41	ECH-A25105JX
	2.0	5%	31.5	15.0	24.5	27.5	1	P10950-ND	4.80	4.12	3.23	2.06	ECH-A25205JX
	3.0	5%	37.0	16.5	26.0	32.5	1	P10951-ND	6.27	5.38	4.22	2.69	ECH-A25305JX
	4.0	5%	37.0	19.5	29.0	32.5	1	P10952-ND	7.31	6.27	4.91	3.14	ECH-A25405JX
	5.0	5%	40.5	20.0	30.0	30.0	2	P10953-ND	9.00	7.72	6.05	3.86	ECH-A25505JX
	6.0	5%	40.5	22.0	32.0	30.0	2	P10954-ND	10.91	9.36	7.33	4.68	ECH-A25605JX

Panasonic® SMT Capacitors

ECW-U (PEN Film, Standard Type) and ECH-U (PPS Film, High Grade Type)

Features: • Small in size • High moisture resistance
Applications: Type ECH-U: • Time constant • Filtering • Oscillation and resonance **Type ECW-U**: • Coupling • By-pass • General purpose

Size Code	Dim. (mm)* L	Dim. (mm)* W	Size Code	Dim. (mm)* L	Dim. (mm)* W
0603 (1608)	1.6	0.8	2820 (7150)	7.1	5.0
0805 (2012)	2.0	1.25	2825 (7163)	7.1	6.3
1206 (3216)	3.2	1.6	3022 (7755)	7.7	5.5
1210 (3225)	3.2	2.5	3925 (9863)	9.8	6.3
1913 (4833)	4.8	3.3	3931 (9880)	9.8	8.0
2416 (6041)	6.0	4.1	6031 (1580)	15.2	8.0
2420 (6050)	6.0	5.0	6039 (1510)	15.2	10.0



* For H measurement, see chart.

ECW-U(B) Series

Specifcations: • Operating Temperature: -55°C to +105°C • Rated Voltage: 16VDC, 50VDC • Capacitance Tolerance: 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: C≤0.33µF: ≥3000MΩ (20°C, 10VDC, 50VDC 60s) • Reflow Soldering Conditions: 240°C max. and 30 sec. max. at more than 210°C (temp. at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECW-U(B) (Standard Type) 5% Tolerance, Reflow Only *NOT RECOMMENDED FOR NEW DESIGN*											
1206 (3216) Size	50	.0033	0.8	PCF1040CT-ND	.50	.44	.34	PCF1040TR-ND	3,000	200.00/M	ECW-U1H332JB5
		.0039	0.8	PCF1041CT-ND	.50	.44	.34	PCF1041TR-ND	3,000	200.00/M	ECW-U1H392JB5
		.0047	0.8	PCF1042CT-ND	.50	.44	.34	PCF1042TR-ND	3,000	200.00/M	ECW-U1H472JB5
		.0056	0.8	PCF1043CT-ND	.53	.46	.36	PCF1043TR-ND	3,000	212.00/M	ECW-U1H562JB5
		.0068	0.8	PCF1044CT-ND	.53	.46	.36	PCF1044TR-ND	3,000	212.00/M	ECW-U1H682JB5
		.0082	1.0	PCF1045CT-ND	.54	.47	.36	PCF1045TR-ND	3,000	217.00/M	ECW-U1H822JB5
		.01	1.0	PCF1046CT-ND	.55	.48	.37	PCF1046TR-ND	3,000	218.00/M	ECW-U1H103JB5
1210 (3225) Size	50	.012	1.0	PCF1047CT-ND	.56	.49	.37	PCF1047TR-ND	2,000	223.00/M	ECW-U1H123JB5
		.015	1.0	PCF1048CT-ND	.57	.49	.38	PCF1048TR-ND	2,000	226.00/M	ECW-U1H153JB5
		.018	1.4	PCF1049CT-ND	.58	.51	.39	PCF1049TR-ND	2,000	232.00/M	ECW-U1H183JB5
		.022	1.4	PCF1050CT-ND	.59	.52	.40	PCF1050TR-ND	2,000	236.00/M	ECW-U1H223JB5
		.027	1.4	PCF1051CT-ND	.60	.52	.40	PCF1051TR-ND	2,000	241.00/M	ECW-U1H273JB5
		.033	2.0	PCF1052CT-ND	.61	.53	.41	PCF1052TR-ND	2,000	242.00/M	ECW-U1H333JB5
		.039	2.0	PCF1053CT-ND	.63	.55	.42	PCF1053TR-ND	2,000	253.00/M	ECW-U1H393JB5
		.047	2.0	PCF1054CT-ND	.65	.56	.43	PCF1054TR-ND	2,000	259.00/M	ECW-U1H473JB5
1913 (4833)	50	.082	2.0	PCF1057CT-ND	.71	.61	.47	PCF1057TR-ND	3,000	281.00/M	ECW-U1H823JB9

ECW-U(C) Series

Specifcations: • Operating Temperature: (16VDC, 50VDC) -55°C to +105°C; (100VDC, 250VDC) -40°C to +85°C • Rated Voltage: 16, 50, 100, and 250VDC • Withstanding Voltage Between Terminals): (16VDC, 50VDC) Rated Voltage x 175% 1 to 5s; (100VDC or 250VDC) Rated Voltage x 150% 60s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: (C≤0.33µF) ≥3000MΩ; (C>0.33µF) 1000MΩ • Reflow Soldering Conditions: (16VDC, 50VDC) 240°C max. and 30 sec. max. at more than 210°C (temp. at cap surface); (100VDC, 250VDC) 230°C max. and 30 sec. max. at more than 210°C (temp. at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECW-U(C) (Standard Type) 5% Tolerance, Reflow Only											
1913 (4833) Size	16	.12	1.4	PCF1137CT-ND	.79	.68	.53	PCF1137TR-ND	3,000	314.00/M	ECW-U1C124JC9
		.15	2.0	PCF1138CT-ND	.86	.75	.58	PCF1138TR-ND	3,000	344.00/M	ECW-U1C154JC9
		.18	4.8	PCF1139CT-ND	.94	.82	.63	PCF1139TR-ND	3,000	376.00/M	ECW-U1C184JC9
		.22	4.8	PCF1140CT-ND	1.04	.91	.70	PCF1140TR-ND	2,000	417.00/M	ECW-U1C224JC9
2416 (6041) Size	16	.27	1.8	PCF1141CT-ND	1.13	.98	.75	PCF1141TR-ND	3,000	451.00/M	ECW-U1C274JC9
		.33	2.0	PCF1142CT-ND	1.22	1.06	.81	PCF1142TR-ND	3,000	487.00/M	ECW-U1C334JC9
		.39	2.4	PCF1143CT-ND	1.31	1.13	.87	PCF1143TR-ND	2,000	522.00/M	ECW-U1C394JC9
		.47	2.8	PCF1144CT-ND	1.39	1.21	.93	PCF1144TR-ND	2,000	556.00/M	ECW-U1C474JC9
1913 (4833) Size	50	.056	2.0	PCF1145CT-ND	.70	.61	.47	PCF1145TR-ND	3,000	278.00/M	ECW-U1H563JC9
		.068	2.0	PCF1146CT-ND	.70	.61	.47	PCF1146TR-ND	3,000	278.00/M	ECW-U1H683JC9
		.082	2.4	PCF1147CT-ND	.78	.68	.52	PCF1147TR-ND	2,000	313.00/M	ECW-U1H823JC9
		.1	2.8	PCF1148CT-ND	.87	.76	.58	PCF1148TR-ND	2,000	347.00/M	ECW-U1H104JC9
2416 (6041) Size	50	.12	1.8	PCF1149CT-ND	1.04	.91	.70	PCF1149TR-ND	3,000	417.00/M	ECW-U1H124JC9
		.15	2.0	PCF1150CT-ND	1.22	1.06	.81	PCF1150TR-ND	3,000	487.00/M	ECW-U1H154JC9
		.18	2.4	PCF1151CT-ND	1.39	1.21	.93	PCF1151TR-ND	2,000	556.00/M	ECW-U1H184JC9
		.22	2.8	PCF1152CT-ND	1.56	1.36	1.04	PCF1152TR-ND	2,000	626.00/M	ECW-U1H224JC9
1913 (4833) Size	100	.012	1.4	PCF1209CT-ND	.70	.61	.47	PCF1209TR-ND	3,000	278.00/M	ECW-U1123JC9
		.015	1.4	PCF1210CT-ND	.98	.85	.65	PCF1210TR-ND	3,000	389.00/M	ECW-U1153JC9
		.018	1.4	PCF1211CT-ND	1.00	.87	.67	PCF1211TR-ND	3,000	400.00/M	ECW-U1183JC9
		.022	1.4	PCF1212CT-ND	.70	.61	.47	PCF1212TR-ND	3,000	278.00/M	ECW-U1223JC9
		.027	1.4	PCF1213CT-ND	1.02	.89	.68	PCF1213TR-ND	3,000	408.00/M	ECW-U1273JC9
		.033	1.4	PCF1214CT-ND	.70	.61	.47	PCF1214TR-ND	3,000	278.00/M	ECW-U1333JC9
		.039	1.4	PCF1215CT-ND	1.12	.97	.75	PCF1215TR-ND	3,000	447.00/M	ECW-U1393JC9
1913 (4833) Size		.047	2.0	PCF1216CT-ND	1.16	1.01	.77	PCF1216TR-ND	3,000	463.00/M	ECW-U1473JC9
		.056	2.0	PCF1217CT-ND	1.24	1.08	.83	PCF1217TR-ND	3,000	496.00/M	ECW-U1563JC9
		.068	2.4	PCF1218CT-ND	1.22	1.06	.82	PCF1218TR-ND	2,000	489.00/M	ECW-U1683JC9
		.082	2.8	PCF1219CT-ND	1.26	1.10	.84	PCF1219TR-ND	2,000	505.00/M	ECW-U1823JC9
2416 (6041) Size	100	.1	1.8	PCF1220CT-ND	1.30	1.13	.87	PCF1220TR-ND	3,000	520.00/M	ECW-U1104JC9
		.12	2.4	PCF1221CT-ND	1.42	1.23	.95	PCF1221TR-ND	2,000	568.00/M	ECW-U1124JC9
		.15	2.8	PCF1222CT-ND	1.50	1.30	1.00	PCF1222TR-ND	2,000	600.00/M	ECW-U1154JC9
1913 (4833) Size	250	.001	1.4	PCF1361CT-ND	.78	.68	.52	PCF1361TR-ND	3,000	313.00/M	ECW-U2102JC9
		.0012	1.4	PCF1362CT-ND	.78	.68	.52	PCF1362TR-ND	3,000	313.00/M	ECW-U2122JC9
		.0015	1.4	PCF1363CT-ND	.78	.68	.52	PCF1363TR-ND	3,000	313.00/M	ECW-U2152JC9
		.0018	1.4	PCF1364CT-ND	.78	.68	.52	PCF1364TR-ND	3,000	313.00/M	ECW-U2182JC9
		.0022	1.4	PCF1365CT-ND	.78	.68	.52	PCF1365TR-ND	3,000	313.00/M	ECW-U2222JC9
		.0027	1.4	PCF1366CT-ND	.78	.68	.52	PCF1366TR-ND	3,000	313.00/M	ECW-U2272JC9
		.0033	1.4	PCF1367CT-ND	.78	.68	.52	PCF1367TR-ND	3,000	313.00/M	ECW-U2332JC9
		.0039	1.4	PCF1368CT-ND	.78	.68	.52	PCF1368TR-ND	3,000	313.00/M	ECW-U2392JC9
		.0047	1.4	PCF1369CT-ND	.78	.68	.52	PCF1369TR-ND	3,000	313.00/M	ECW-U2472JC9
		.0056	1.4	PCF1370CT-ND	.78	.68	.52	PCF1370TR-ND	3,000	313.00/M	ECW-U2562JC9
		.0068	1.4	PCF1371CT-ND	.78	.68	.52	PCF1371TR-ND	3,000	313.00/M	ECW-U2682JC9
		.0082	1.4	PCF1372CT-ND	.78	.68	.52	PCF1372TR-ND	3,000	313.00/M	ECW-U2822JC9
		.01	1.4	PCF1373CT-ND	.78	.68	.52	PCF1373TR-ND	3,000	313.00/M	ECW-U2103JC9
		.012	1.4	PCF1374CT-ND	.78	.68	.52	PCF1374TR-ND	3,000	313.00/M	ECW-U2123JC9
		.015	1.4	PCF1375CT-ND	.78	.68	.52	PCF1375TR-ND	3,000	313.00/M	ECW-U2153JC9
		.018	2.0	PCF1376CT-ND	.87	.76	.58	PCF1376TR-ND	3,000	347.00/M	ECW-U2183JC9
		.022	2.0	PCF1377CT-ND	.87	.76	.58	PCF1377TR-ND	3,000	347.00/M	ECW-U2223JC9
		.027	2.4	PCF1378CT-ND	1.04	.91	.70	PCF1378TR-ND	2,000	417.00/M	ECW-U2273JC9
		.033	2.8	PCF1379CT-ND	1.13	.98	.75	PCF1379TR-ND	2,000	451.00/M	ECW-U2333JC9
2416 (6041) Size	250	.039	2.0	PCF1380CT-ND	1.22	1.06	.81	PCF1380TR-ND	3,000	487.00/M	ECW-U2393JC9
		.047	2.4	PCF1381CT-ND	1.31	1.13	.87	PCF1381TR-ND	2,000	522.00/M	ECW-U2473JC9
		.056	2.8	PCF1382CT-ND	1.39	1.21	.93	PCF1382TR-ND	2,000	556.00/M	ECW-U2563JC9
		.068	3.2	PCF1383CT-ND	.99	.86	.66	PCF1383TR-ND	2,000	394.00/M	ECW-U2683JC9
2420 (6050) Size	250	.082	3.2	PCF1384CT-ND	1.56	1.36	1.04	PCF1384TR-ND	1,500	626.00/M	ECW-U2823JC9
		.1	3.8	PCF1385CT-ND	1.38	1.20	.92	PCF1385TR-ND	1,500	552.00/M	ECW-U2104JC9
		.12	4.5	PCF1386CT-ND	1.74	1.51	1.16	PCF1386TR-ND	1,500	695.00/M	ECW-U2124JC9
ECW-U(C) (Standard Type) 10% Tolerance, Reflow Only											
1913 (4833) Size	100	.012	1.4	PCF1223CT-ND	.63	.54	.42	PCF1223TR-ND	3,000	250.00/M	ECW-U1123KC9
		.015	1.4	PCF1224CT-ND	.63	.54	.42	PCF1224TR-ND	3,000	250.00/M	ECW-U1153KC9
		.018	1.4	PCF1225CT-ND	.63	.54	.42	PCF1225TR-ND	3,000	250.00/M	ECW-U1183KC9
		.022	1.4	PCF1226CT-ND	.63	.54	.42	PCF1226TR-ND	3,000	250.00/M	ECW-U1223KC9
1913 (4833) Size	100	.027	1.4	PCF1227CT-ND	.63	.54	.42	PCF1227TR-ND	3,000	250.00/M	ECW-U1273KC9
		.033	1.4	PCF1228CT-ND	.63	.54	.42	PCF1228TR-ND	3,000	250.00/M	ECW-U1333KC9
		.039	1.4	PCF1229CT-ND	.63	.54	.42	PCF1229TR-ND	3,000	250.00/M	ECW-U1393KC9
		.047	2.0	PCF1230CT-ND	.78	.68	.52	PCF1230TR-ND	3,000	313.00/M	ECW-U1473KC9
		.056	2.0	PCF1231CT-ND	.78	.68	.52	PCF1231TR-ND	3,000	313.00/M	ECW-U1563KC9
		.068	2.4	PCF1232CT-ND	.94	.82	.63	PCF1232TR-ND	2,000	376.00/M	ECW-U1683KC9
		.082	2.8	PCF1233CT-ND	1.02	.88	.68	PCF1233TR-ND	2,000	406.00/M	ECW-U1823KC9
2416 (6041) Size	100	.1	1.8	PCF1234CT-ND	1.10	.95	.73	PCF1234TR-ND	3,000	438.00/M	ECW-U1104KC9
		.12	2.4	PCF1235CT-ND	1.25	1.09	.84	PCF1235TR-ND	2,000	501.00/M	ECW-U1124KC9
		.15	2.8	PCF1236CT-ND	1.41	1.22	.94	PCF1236TR-ND	2,000	562.00/M	ECW-U1154KC9
2820 (7150) Size	100	.18	2.0	PCF1237CT-ND	1.32	1.14	.88	PCF1237TR-ND	1,500	526.00/M	ECW-U1184KC9
		.22	2.4	PCF1238CT-ND	1.40	1.21	.93	PCF1238TR-ND	1,500	558.00/M	ECW-U1224KC9
		.27	2.9	PCF1239CT-ND	1.78	1.55	1.19	PCF1239TR-ND	1,500	713.00/M	ECW-U1274KC9
		.33	3.5	PCF1240CT-ND	1.51	1.31	1.01	PCF1240TR-ND	1,500	604.00/M	ECW-U1334KC9
3022 (7755)	100	.39	3.4	PCF1241CT-ND	1.58	1.37	1.05	PCF1241TR-ND	1,000	630.00	ECW-U1394KCV
		.47	4.0	PCF1242CT-ND	1.63	1.41	1.09	PCF1242TR-ND	1,000	651.00	ECW-U1474KCV
3925 (9863) Size	100	.56	3.0	PCF1243CT-ND	1.74	1.51	1.16	PCF1243TR-ND	1,000	696.00	ECW-U1564KCV
		.68	3.6	PCF1244CT-ND	1.81	1.57	1.21	PCF1244TR-ND	1,000	723.00	ECW-U1684KCV
		.82	4.3	PCF1245CT-ND	1.84	1.59	1.23	PCF1245TR-ND	1,000	735.00	ECW-U1824KCV
		1.0	5.1	PCF1246CT-ND	1.85	1.61	1.24	PCF1246TR-ND	1,000	741.00	ECW-U1105KCV
1913 (4833) Size	250	.001	1.4	PCF1247CT-ND	.99	.86	.66	PCF1247TR-ND	3,000	394.00/M	ECW-U2102KC9
		.0012	1.4	PCF1248CT-ND	.99	.86	.66	PCF1248TR-ND	3,000	394.00/M	ECW-U2122KC9
		.0015	1.4	PCF1249CT-ND	.70	.61	.47	PCF1249TR-ND	3,000	278.00/M	ECW-U2152KC9
		.0018	1.4	PCF1250CT-ND	.99	.86	.66	PCF1250TR-ND	3,000	394.00/M	ECW-U2182KC9
		.0022	1.4	PCF1251CT-ND	.99	.86	.66	PCF1251TR-ND	3,000	394.00/M	ECW-U2222KC9
		.0027	1.4	PCF1252CT-ND	.99	.86	.66	PCF1252TR-ND	3,000	394.00/M	ECW-U2272KC9
		.0033	1.4	PCF1253CT-ND	.99	.86	.66	PCF1253TR-ND	3,000	394.00/M	ECW-U2332KC9
		.0039	1.4	PCF1254CT-ND	.70	.61	.47	PCF1254TR-ND	3,000	278.00/M	ECW-U2392KC9
		.0047	1.4	PCF1255CT-ND	.99	.86	.66	PCF1255TR-ND	3,000	394.00/M	ECW-U2472KC9
		.0056	1.4	PCF1256CT-ND	.99	.86	.66	PCF1256TR-ND	3,000	394.00/M	ECW-U2562KC9
		.0068	1.4	PCF1257CT-ND	.99	.86	.66	PCF1257TR-ND	3,000	394.00/M	ECW-U2682KC9
		.0082	1.4	PCF1258CT-ND	.99	.86	.66	PCF1258TR-ND	3,000	394.00/M	ECW-U2822KC9
		.01	1.4	PCF1259CT-ND	.99	.86	.66	PCF1259TR-ND	3,000	394.00/M	ECW-U2103KC9
		.012	1.4	PCF1260CT-ND	.99	.86	.66	PCF1260TR-ND	3,000	394.00/M	ECW-U2123KC9
		.015	1.4	PCF1261CT-ND	.99	.86	.66	PCF1261TR-ND	3,000	394.00/M	ECW-U2153KC9
		.018	2.0	PCF1262CT-ND	.99	.86	.66	PCF1262TR-ND	3,000	394.00/M	ECW-U2183KC9
		.022	2.0	PCF1263CT-ND	.99	.86	.66	PCF1263TR-ND	3,000	394.00/M	ECW-U2223KC9
		.027	2.4	PCF1264CT-ND	1.02	.89	.68	PCF1264TR-ND	2,000	408.00/M	ECW-U2273KC9
		.033	2.8	PCF1265CT-ND	1.05	.91	.70	PCF1265TR-ND	2,000	421.00/M	ECW-U2333KC9
2416 (6041) Size	250	.039	2.0	PCF1266CT-ND	1.08	.94	.72	PCF1266TR-ND	3,000	433.00/M	ECW-U2393KC9
		.047	2.4	PCF1267CT-ND	1.12	.97	.75	PCF1267TR-ND	2,000	447.00/M	ECW-U2473KC9
		.056	2.8	PCF1268CT-ND	1.19	1.03	.79	PCF1268TR-ND	2,000	474.00/M	ECW-U2563KC9

(Continued)

Panasonic SMT Capacitors *(Cont.)*

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECW-U(C) (Standard Type) 10% Tolerance, Reflow Only											
2420 (6050) Size	250	.068	3.2	PCF1269CT-ND	1.25	1.08	.83	PCF1269TR-ND	2,000	499.00/M	ECW-U2683KC9
		.082	3.2	PCF1270CT-ND	1.32	1.14	.88	PCF1270TR-ND	1,500	526.00/M	ECW-U2823KC9
		.1	3.8	PCF1271CT-ND	1.38	1.20	.92	PCF1271TR-ND	1,500	552.00/M	ECW-U2104KC9
		.12	2.8	PCF1272CT-ND	1.51	1.31	1.01	PCF1272TR-ND	1,500	604.00/M	ECW-U2124KC9
2825 (7163) Size	250	.15	3.5	PCF1273CT-ND	1.64	1.43	1.10	PCF1273TR-ND	1,000	657.00	ECW-U2154KCV
		.18	4.1	PCF1274CT-ND	1.77	1.54	1.18	PCF1274TR-ND	1,000	710.00	ECW-U2184KCV
		.22	5.1	PCF1275CT-ND	1.84	1.59	1.23	PCF1275TR-ND	1,000	735.00	ECW-U2224KCV
3925 (9863)	250	.27	3.9	PCF1276CT-ND	2.04	1.77	1.36	PCF1276TR-ND	1,000	815.00	ECW-U2274KCV
		.33	4.8	PCF1277CT-ND	2.17	1.88	1.45	PCF1277TR-ND	1,000	868.00	ECW-U2334KCV
3931 (9880)	250	.39	4.4	PCF1278CT-ND	2.30	1.99	1.53	PCF1278TR-ND	1,000	920.00	ECW-U2394KCV
		.47	5.3	PCF1279CT-ND	2.43	2.11	1.62	PCF1279TR-ND	1,000	973.00	ECW-U2474KCV
6031 (1580)	250	.56	3.7	PCF1280CT-ND	2.82	2.45	1.88	PCF1280TR-ND	750	848.25	ECW-U2564KCZ
		.68	4.4	PCF1281CT-ND	3.61	3.13	2.41	PCF1281TR-ND	750	1083.75	ECW-U2684KCZ
6039 (1510)	250	.82	4.2	PCF1282CT-ND	3.94	3.41	2.63	PCF1282TR-ND	750	1182.75	ECW-U2824KCZ
		1.0	5.1	PCF1283CT-ND	4.26	3.70	2.84	PCF1283TR-ND	750	1281.00	ECW-U2105KCZ

ECW-U(X) Series

Specifcations: • Operating Temperature: -55°C to +105°C • Rated Voltage: 100VDC • Withstanding Voltage Between Terminals: Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 100VDC 60s) • Reflow Soldering Conditions: 240°C max. and 30 sec. max. at more than 210°C (temp. at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECW-U(X) (Standard Type) 5% Tolerance, Reflow Only											
1206 (3216) Size	100	.001	1.1	PCF1348CT-ND	.66	.57	.44	PCF1348TR-ND	3,000	263.00/M	ECW-U1102JX5
		.0012	1.1	PCF1349CT-ND	.66	.57	.44	PCF1349TR-ND	3,000	263.00/M	ECW-U1122JX5
		.0015	1.1	PCF1350CT-ND	.66	.57	.44	PCF1350TR-ND	3,000	263.00/M	ECW-U1152JX5
		.0018	1.1	PCF1351CT-ND	.67	.58	.45	PCF1351TR-ND	3,000	268.00/M	ECW-U1182JX5
		.0022	1.1	PCF1352CT-ND	.67	.58	.45	PCF1352TR-ND	3,000	268.00/M	ECW-U1222JX5
		.0027	1.1	PCF1353CT-ND	.67	.58	.45	PCF1353TR-ND	3,000	268.00/M	ECW-U1272JX5
		.0033	1.5	PCF1354CT-ND	.67	.58	.45	PCF1354TR-ND	2,000	268.00/M	ECW-U1332JX5
		.0039	1.5	PCF1355CT-ND	.69	.60	.46	PCF1355TR-ND	2,000	274.00/M	ECW-U1392JX5
		.0047	1.5	PCF1356CT-ND	.70	.61	.47	PCF1356TR-ND	2,000	280.00/M	ECW-U1472JX5
1210 (3225) Size	100	.0056	1.5	PCF1357CT-ND	.74	.64	.49	PCF1357TR-ND	2,000	293.00/M	ECW-U1562JX5
		.0068	1.5	PCF1358CT-ND	.74	.64	.49	PCF1358TR-ND	2,000	293.00/M	ECW-U1682JX5
		.0082	2.1	PCF1359CT-ND	.75	.65	.50	PCF1359TR-ND	2,000	298.00/M	ECW-U1822JX5
		.01	2.1	PCF1360CT-ND	.77	.66	.51	PCF1360TR-ND	2,000	305.00/M	ECW-U1103JX5

ECW-U (V16) and (V17) Series

Specifcations: • Operating Temperature: -55°C to +105°C • Rated Voltage: 250VDC, 400VDC • Withstanding Voltage Between Terminals: (250VDC) 400VDC for 60s; (400VDC) 600VDC for 60s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: (250VDC) ≥3000MΩ • Reflow Soldering Conditions: 230°C max. and 30 sec. max. at more than 210°C (temp. at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECW-U(V16) (Standard Type) 5% Tolerance, Reflow Only											
1913 (4883) Size	250	.001	1.4	PCF1390CT-ND	.47	.41	.32	PCF1390TR-ND	3,000	188.00/M	ECW-U2102V16
		.0012	1.4	PCF1391CT-ND	.47	.41	.32	PCF1391TR-ND	3,000	188.00/M	ECW-U2122V16
		.0015	1.4	PCF1392CT-ND	.47	.41	.32	PCF1392TR-ND	3,000	188.00/M	ECW-U2152V16
		.0018	1.4	PCF1393CT-ND	.47	.41	.32	PCF1393TR-ND	3,000	188.00/M	ECW-U2182V16
		.0022	1.4	PCF1394CT-ND	.47	.41	.32	PCF1394TR-ND	3,000	188.00/M	ECW-U2222V16
		.0033	1.4	PCF1395CT-ND	.47	.41	.32	PCF1395TR-ND	3,000	188.00/M	ECW-U2332V16
		.0047	1.4	PCF1396CT-ND	.47	.41	.32	PCF1396TR-ND	3,000	188.00/M	ECW-U2472V16
		.0056	1.4	PCF1397CT-ND	.47	.41	.32	PCF1397TR-ND	3,000	188.00/M	ECW-U2562V16
		.0068	1.4	PCF1398CT-ND	.47	.41	.32	PCF1398TR-ND	3,000	188.00/M	ECW-U2682V16
		.0082	1.4	PCF1399CT-ND	.47	.41	.32	PCF1399TR-ND	3,000	188.00/M	ECW-U2822V16
		.01	1.4	PCF1400CT-ND	.47	.41	.32	PCF1400TR-ND	3,000	188.00/M	ECW-U2103V16
		.012	1.4	PCF1401CT-ND	.47	.41	.32	PCF1401TR-ND	3,000	188.00/M	ECW-U2123V16
		.015	1.4	PCF1402CT-ND	.47	.41	.32	PCF1402TR-ND	3,000	188.00/M	ECW-U2153V16
		.018	2.0	PCF1403CT-ND	.53	.46	.35	PCF1403TR-ND	3,000	209.00/M	ECW-U2183V16
		.022	2.0	PCF1404CT-ND	.53	.46	.35	PCF1404TR-ND	3,000	209.00/M	ECW-U2223V16
		.027	2.4	PCF1405CT-ND	.63	.54	.42	PCF1405TR-ND	2,000	250.00/M	ECW-U2273V16
		.033	2.8	PCF1406CT-ND	.68	.59	.45	PCF1406TR-ND	2,000	271.00/M	ECW-U2333V16
2416 (6041) Size	250	.039	2.0	PCF1407CT-ND	.73	.64	.49	PCF1407TR-ND	3,000	292.00/M	ECW-U2393V16
		.047	2.4	PCF1408CT-ND	.78	.68	.52	PCF1408TR-ND	2,000	313.00/M	ECW-U2473V16
		.056	2.8	PCF1409CT-ND	.84	.73	.56	PCF1409TR-ND	2,000	334.00/M	ECW-U2563V16
		.068	3.2	PCF1410CT-ND	.89	.77	.59	PCF1410TR-ND	2,000	355.00/M	ECW-U2683V16
2420 (6050) Size	250	.082	3.2	PCF1411CT-ND	.94	.82	.63	PCF1411TR-ND	1,500	376.00/M	ECW-U2823V16
		.1	3.8	PCF1412CT-ND	.99	.86	.66	PCF1412TR-ND	1,500	395.00/M	ECW-U2104V16
		.12	4.5	PCF1413CT-ND	1.04	.91	.70	PCF1413TR-ND	1,500	417.00/M	ECW-U2124V16
ECW-U(V17) (Standard Type) 5% Tolerance, Reflow Only											
1913 (4833) Size	400	.001	1.4	PCF1414CT-ND	.53	.46	.35	PCF1414TR-ND	3,000	209.00/M	ECW-U4102V17
		.0012	1.4	PCF1415CT-ND	.53	.46	.35	PCF1415TR-ND	3,000	209.00/M	ECW-U4122V17
		.0015	1.4	PCF1416CT-ND	.53	.46	.35	PCF1416TR-ND	3,000	209.00/M	ECW-U4152V17
1913 (4833) Size	400	.0018	1.4	PCF1417CT-ND	.53	.46	.35	PCF1417TR-ND	3,000	209.00/M	ECW-U4182V17
		.0022	1.4	PCF1418CT-ND	.53	.46	.35	PCF1418TR-ND	3,000	209.00/M	ECW-U4222V17
		.0027	1.4	PCF1419CT-ND	.53	.46	.35	PCF1419TR-ND	3,000	209.00/M	ECW-U4272V17
		.0033	1.4	PCF1420CT-ND	.53	.46	.35	PCF1420TR-ND	3,000	209.00/M	ECW-U4332V17
		.0039	1.4	PCF1421CT-ND	.53	.46	.35	PCF1421TR-ND	3,000	209.00/M	ECW-U4392V17
		.0047	1.4	PCF1422CT-ND	.53	.46	.35	PCF1422TR-ND	3,000	209.00/M	ECW-U4472V17
		.0056	2.0	PCF1423CT-ND	.53	.46	.35	PCF1423TR-ND	3,000	209.00/M	ECW-U4562V17
		.0068	2.0	PCF1424CT-ND	.53	.46	.35	PCF1424TR-ND	3,000	209.00/M	ECW-U4682V17
		.0082	2.4	PCF1425CT-ND	.60	.52	.40	PCF1425TR-ND	2,000	239.00/M	ECW-U4822V17
		.01	2.8	PCF1426CT-ND	.63	.54	.42	PCF1426TR-ND	2,000	250.00/M	ECW-U4103V17
2416 (6041) Size	400	.012	2.0	PCF1427CT-ND	.68	.59	.45	PCF1427TR-ND	3,000	271.00/M	ECW-U4123V17
		.015	2.4	PCF1428CT-ND	.73	.64	.49	PCF1428TR-ND	2,000	292.00/M	ECW-U4153V17
		.018	2.8	PCF1429CT-ND	.78	.68	.52	PCF1429TR-ND	2,000	313.00/M	ECW-U4183V17
		.022	3.2	PCF1430CT-ND	.84	.73	.56	PCF1430TR-ND	2,000	334.00/M	ECW-U4223V17
2420 (6050)	400	.027	3.0	PCF1431CT-ND	.92	.79	.61	PCF1431TR-ND	1,500	365.00/M	ECW-U4273V17
		.033	3.6	PCF1432CT-ND	.99	.86	.66	PCF1432TR-ND	1,500	395.00/M	ECW-U4333V17
2820 (7150)	400	.039	3.2	PCF1433CT-ND	.99	.86	.66	PCF1433TR-ND	1,500	395.00/M	ECW-U4393V17
		.047	3.8	PCF1434CT-ND	1.04	.91	.70	PCF1434TR-ND	1,500	417.00/M	ECW-U4473V17
2825 (7163)	400	.056	3.6	PCF1435CT-ND	1.04	.91	.70	PCF1435TR-ND	1,000	417.00	ECW-U4563V17
		.068	4.4	PCF1436CT-ND	1.10	.95	.73	PCF1436TR-ND	1,000	438.00	ECW-U4683V17
3925 (9863)	400	.082	3.4	PCF1437CT-ND	1.10	.95	.73	PCF1437TR-ND	1,000	438.00	ECW-U4823V17
		.1	4.0	PCF1438CT-ND	1.17	1.02	.78	PCF1438TR-ND	1,000	469.00	ECW-U4104V17
3931 (9880)	400	.12	3.8	PCF1439CT-ND	1.17	1.02	.78	PCF1439TR-ND	1,000	469.00	ECW-U4124V17
		.15	4.6	PCF1440CT-ND	1.25	1.09	.84	PCF1440TR-ND	1,000	501.00	ECW-U4154V17

ECH-U(B) Series

Specifcations: • Operating Temperature: -55°C to +125°C • Rated Voltage: 50VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Soldering Conditions: (Flow) 260°C max. and 5 sec. max.; (Reflow) 260°C max., 30 sec. max. at more than 230°C (temp. at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECH-U(B) (High Grade Type) 2% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN											
0805 (2012) Size	50	.0001	0.8	PCF1089CT-ND	.62	.54	.42	PCF1089TR-ND	3,000	248.00/M	ECH-U1H101GB5
		.00012	0.8	PCF1090CT-ND	.62	.54	.42	PCF1090TR-ND	3,000	248.00/M	ECH-U1H121GB5
		.00015	0.8	PCF1091CT-ND	.62	.54	.42	PCF1091TR-ND	3,000	248.00/M	ECH-U1H151GB5
		.00018	0.8	PCF1092CT-ND	.62	.54	.42	PCF1092TR-ND	3,000	248.00/M	ECH-U1H181GB5
		.00022	0.8	PCF1093CT-ND	.62	.54	.42	PCF1093TR-ND	3,000	248.00/M	ECH-U1H221GB5
		.00027	0.8	PCF1094CT-ND	.62	.54	.42	PCF1094TR-ND	3,000	248.00/M	ECH-U1H271GB5
		.00033	0.8	PCF1095CT-ND	.62	.54	.42	PCF1095TR-ND	3,000	248.00/M	ECH-U1H331GB5
		.00039	0.8	PCF1096CT-ND	.62	.54	.42	PCF1096TR-ND	3,000	248.00/M	ECH-U1H391GB5
		.00047	0.8	PCF1097CT-ND	.62	.54	.42	PCF1097TR-ND	3,000	248.00/M	ECH-U1H471GB5
		.00056	0.8	PCF1098CT-ND	.62	.54	.42	PCF1098TR-ND	3,000	248.00/M	ECH-U1H561GB5
		.00068	0.8	PCF1099CT-ND	.62	.54	.42	PCF1099TR-ND	3,000	248.00/M	ECH-U1H681GB5
		.00082	0.8	PCF1100CT-ND	.62	.54	.42	PCF1100TR-ND	3,000	248.00/M	ECH-U1H821GB5
		.001	0.8	PCF1101CT-ND	.62	.54	.42	PCF1101TR-ND	3,000	248.00/M	ECH-U1H102GB5
		.0012	0.8	PCF1102CT-ND	.62	.54	.42	PCF1102TR-ND	3,000	248.00/M	ECH-U1H122GB5
		.0015	0.8	PCF1103CT-ND	.62	.54	.42	PCF1103TR-ND	3,000	248.00/M	ECH-U1H152GB5
		.0018	0.8	PCF1104CT-ND	.62	.54	.42	PCF1104TR-ND	3,000	248.00/M	ECH-U1H182GB5
		.0022	0.8	PCF1105CT-ND	.62	.54	.42	PCF1105TR-ND	3,000	248.00/M	ECH-U1H222GB5
		.0027	0.8	PCF1106CT-ND	.62	.54	.42	PCF1106TR-ND	3,000	248.00/M	ECH-U1H272GB5
1206 (3216) Size	50	.0033	0.8	PCF1107CT-ND	.73	.63	.49	PCF1107TR-ND	3,000	290.00/M	ECH-U1H332GB5
		.0039	0.8	PCF1108CT-ND	.74	.65	.50	PCF1108TR-ND	3,000	296.00/M	ECH-U1H392GB5
		.0047	0.8	PCF1109CT-ND	.77	.66	.51	PCF1109TR-ND	3,000	305.00/M	ECH-U1H472GB5
		.0056	0.8	PCF1110CT-ND	.79	.68	.53	PCF1110TR-ND	3,000	314.00/M	ECH-U1H562GB5
		.0068	0.8	PCF1111CT-ND	.81	.70	.54	PCF1111TR-ND	3,000	323.00/M	ECH-U1H682GB5
		.0082	1.0	PCF1112CT-ND	.83	.72	.56	PCF1112TR-ND	3,000	332.00/M	ECH-U1H822GB5
		.01	1.0	PCF1113CT-ND	.86	.74	.57	PCF1113TR-ND	3,000	341.00/M	ECH-U1H103GB5
1210 (3225) Size	50	.012	1.0	PCF1114CT-ND	.87	.76	.58	PCF1114TR-ND	2,000	347.00/M	ECH-U1H123GB5
		.015	1.0	PCF1115CT-ND	.90	.78	.60	PCF1115TR-ND	2,000	358.00/M	ECH-U1H153GB5
		.018	1.4	PCF1116CT-ND	.92	.80	.62	PCF1116TR-ND	2,000	368.00/M	ECH-U1H183GB5
		.022	1.4	PCF1117CT-ND	.96	.83	.64	PCF1117TR-ND	2,000	382.00/M	ECH-U1H223GB5
		.027	1.4	PCF1118CT-ND	1.00	.87	.67	PCF1118TR-ND	2,000	400.00/M	ECH-U1H273GB5
		.033	2.0	PCF1119CT-ND	1.05	.91	.70	PCF1119TR-ND	2,000	418.00/M	ECH-U1H333GB5
		.039	2.0	PCF1120CT-ND	1.10	.95	.73	PCF1120TR-ND	2,000	438.00/M	ECH-U1H393GB5
ECH-U(B) (High Grade Type) 5% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN											
0805 (2012) Size	16	.0033	0.8	PCF1070CT-ND	.49	.43	.33	PCF1070TR-ND	3,000	195.00/M	ECH-U1C332JB5
		.0039	0.8	PCF1071CT-ND	.49	.43	.33	PCF1071TR-ND	3,000	195.00/M	ECH-U1C392JB5
		.0047	0.8	PCF1072CT-ND	.49	.43	.33	PCF1072TR-ND	3,000	195.00/M	ECH-U1C472JB5
		.0056	0.8	PCF1073CT-ND	.49	.43	.33	PCF1073TR-ND	3,000	195.00/M	ECH-U1C562JB5
		.0068	0.8	PCF1074CT-ND	.49	.43	.33	PCF1074TR-ND	3,000	195.00/M	ECH-U1C682JB5
		.0082	1.0	PCF1075CT-ND	.49	.43	.33	PCF1075TR-ND	3,000	195.00/M	ECH-U1C822JB5
		.01	1.0	PCF1076CT-ND	.49	.43	.33	PCF1076TR-ND	3,000	195.00/M	ECH-U1C103JB5

(Continued)

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECH-U(B) (High Grade Type) 5% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN											
1206 (3216) Size	16	.012	0.8	PCF1077CT-ND	.52	.45	.35	PCF1077TR-ND	3,000	206.00/M	ECH-U1C123JB5
		.015	0.8	PCF1078CT-ND	.54	.47	.36	PCF1078TR-ND	3,000	214.00/M	ECH-U1C153JB5
		.018	0.8	PCF1079CT-ND	.54	.47	.36	PCF1079TR-ND	3,000	214.00/M	ECH-U1C183JB5
		.022	0.8	PCF1080CT-ND	.58	.50	.39	PCF1080TR-ND	3,000	230.00/M	ECH-U1C223JB5
		.027	1.0	PCF1081CT-ND	.59	.52	.40	PCF1081TR-ND	3,000	236.00/M	ECH-U1C273JB5
		.033	1.0	PCF1082CT-ND	.61	.53	.41	PCF1082TR-ND	3,000	244.00/M	ECH-U1C333JB5
		.039	1.4	PCF1083CT-ND	.64	.55	.43	PCF1083TR-ND	2,000	254.00/M	ECH-U1C393JB5
		.047	1.4	PCF1084CT-ND	.67	.58	.45	PCF1084TR-ND	2,000	268.00/M	ECH-U1C473JB5
1210 (3225) Size	16	.056	1.4	PCF1085CT-ND	.74	.64	.49	PCF1085TR-ND	2,000	295.00/M	ECH-U1C563JB5
		.068	1.4	PCF1086CT-ND	.79	.69	.53	PCF1086TR-ND	2,000	316.00/M	ECH-U1C683JB5
		.082	2.0	PCF1087CT-ND	.85	.74	.57	PCF1087TR-ND	2,000	340.00/M	ECH-U1C823JB5
		.1	2.0	PCF1088CT-ND	.90	.78	.60	PCF1088TR-ND	2,000	359.00/M	ECH-U1C104JB5
0805 (2012) Size	50	.0001	0.8	PCF1000CT-ND•	.50	.44	.34	PCF1000TR-ND	3,000	200.00/M	ECH-U1H101JB5
		.00012	0.8	PCF1001CT-ND	.50	.44	.34	PCF1001TR-ND	3,000	200.00/M	ECH-U1H121JB5
		.00015	0.8	PCF1002CT-ND•	.50	.44	.34	PCF1002TR-ND	3,000	200.00/M	ECH-U1H151JB5
		.00018	0.8	PCF1003CT-ND	.50	.44	.34	PCF1003TR-ND	3,000	200.00/M	ECH-U1H181JB5
		.00022	0.8	PCF1004CT-ND•	.50	.44	.34	PCF1004TR-ND	3,000	200.00/M	ECH-U1H221JB5
		.00027	0.8	PCF1005CT-ND	.50	.44	.34	PCF1005TR-ND	3,000	200.00/M	ECH-U1H271JB5
		.00033	0.8	PCF1006CT-ND•	.50	.44	.34	PCF1006TR-ND	3,000	200.00/M	ECH-U1H331JB5
		.00039	0.8	PCF1007CT-ND	.50	.44	.34	PCF1007TR-ND	3,000	200.00/M	ECH-U1H391JB5
		.00047	0.8	PCF1008CT-ND•	.50	.44	.34	PCF1008TR-ND	3,000	200.00/M	ECH-U1H471JB5
		.00056	0.8	PCF1009CT-ND	.50	.44	.34	PCF1009TR-ND	3,000	200.00/M	ECH-U1H561JB5
		.00068	0.8	PCF1010CT-ND	.50	.44	.34	PCF1010TR-ND	3,000	200.00/M	ECH-U1H681JB5
		.00082	0.8	PCF1011CT-ND	.50	.44	.34	PCF1011TR-ND	3,000	200.00/M	ECH-U1H821JB5
		.001	0.8	PCF1012CT-ND•	.50	.44	.34	PCF1012TR-ND	3,000	200.00/M	ECH-U1H102JB5
		.0012	0.8	PCF1013CT-ND	.50	.44	.34	PCF1013TR-ND	3,000	200.00/M	ECH-U1H122JB5
		.0015	0.8	PCF1014CT-ND•	.50	.44	.34	PCF1014TR-ND	3,000	200.00/M	ECH-U1H152JB5
		.0018	0.8	PCF1015CT-ND	.50	.44	.34	PCF1015TR-ND	3,000	200.00/M	ECH-U1H182JB5
		.0022	0.8	PCF1016CT-ND•	.50	.44	.34	PCF1016TR-ND	3,000	200.00/M	ECH-U1H222JB5
		.0027	0.8	PCF1017CT-ND	.50	.44	.34	PCF1017TR-ND	3,000	200.00/M	ECH-U1H272JB5
1206 (3216) Size	50	.0033	0.8	PCF1018CT-ND•	.59	.51	.39	PCF1018TR-ND	3,000	235.00/M	ECH-U1H332JB5
		.0039	0.8	PCF1019CT-ND	.60	.52	.40	PCF1019TR-ND	3,000	241.00/M	ECH-U1H392JB5
		.0047	0.8	PCF1020CT-ND•	.62	.54	.42	PCF1020TR-ND	3,000	248.00/M	ECH-U1H472JB5
		.0056	0.8	PCF1021CT-ND	.64	.55	.43	PCF1021TR-ND	3,000	254.00/M	ECH-U1H562JB5
		.0068	0.8	PCF1022CT-ND•	.66	.57	.44	PCF1022TR-ND	3,000	262.00/M	ECH-U1H682JB5
		.0082	1.0	PCF1023CT-ND	.67	.58	.45	PCF1023TR-ND	3,000	266.00/M	ECH-U1H822JB5
		.01	1.0	PCF1024CT-ND•	.69	.60	.46	PCF1024TR-ND	3,000	277.00/M	ECH-U1H103JB5
1210 (3225) Size	50	.012	1.0	PCF1025CT-ND	.71	.62	.47	PCF1025TR-ND	2,000	283.00/M	ECH-U1H123JB5
		.015	1.0	PCF1026CT-ND•	.73	.63	.49	PCF1026TR-ND	2,000	290.00/M	ECH-U1H153JB5
		.018	1.4	PCF1027CT-ND	.75	.65	.50	PCF1027TR-ND	2,000	298.00/M	ECH-U1H183JB5
		.022	1.4	PCF1028CT-ND•	.77	.67	.52	PCF1028TR-ND	2,000	308.00/M	ECH-U1H223JB5
		.027	1.4	PCF1029CT-ND	.80	.70	.54	PCF1029TR-ND	2,000	320.00/M	ECH-U1H273JB5
		.033	2.0	PCF1030CT-ND•	.85	.74	.57	PCF1030TR-ND	2,000	338.00/M	ECH-U1H333JB5
		.039	2.0	PCF1031CT-ND	.88	.77	.59	PCF1031TR-ND	2,000	352.00/M	ECH-U1H393JB5

ECH-U(C) Series

Specifcations: • Operating Temperature: -55°C to +125°C • Rated Voltage: 50VDC, 100VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Soldering Conditions: (Flow) 260°C max. and 5 sec. max.; (Reflow) 260°C max., 30 sec. max. at more than 230°C (temp. at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECH-U(C) (High Grade Type) 2% Tolerance Reflow/Flow											
1913 (4833) Size	50	.047	1.4	PCF1162CT-ND	.60	.52	.40	PCF1162TR-ND	3,000	239.00/M	ECH-U1H473GC9
		.056	2.0	PCF1163CT-ND	.64	.55	.43	PCF1163TR-ND	3,000	254.00/M	ECH-U1H563GC9
		.068	2.0	PCF1164CT-ND	.68	.59	.45	PCF1164TR-ND	3,000	269.00/M	ECH-U1H683GC9
		.082	2.4	PCF1165CT-ND	.75	.65	.50	PCF1165TR-ND	2,000	299.00/M	ECH-U1H823GC9
		.1	2.8	PCF1166CT-ND	.83	.72	.55	PCF1166TR-ND	2,000	329.00/M	ECH-U1H104GC9
2416 (6041) Size	50	.12	1.8	PCF1167CT-ND	1.01	.88	.68	PCF1167TR-ND	3,000	404.00/M	ECH-U1H124GC9
		.15	2.4	PCF1168CT-ND	1.15	1.00	.77	PCF1168TR-ND	2,000	460.00/M	ECH-U1H154GC9
		.18	2.8	PCF1169CT-ND	1.32	1.14	.88	PCF1169TR-ND	2,000	526.00/M	ECH-U1H184GC9
		.22	3.2	PCF1170CT-ND	1.50	1.30	1.00	PCF1170TR-ND	2,000	598.00/M	ECH-U1H224GC9
1913 (4833) Size	100	.01	1.4	PCF1494CT-ND	.71	.61	.47	PCF1494TR-ND	3,000	282.00/M	ECH-U1103GC9
		.012	1.4	PCF1495CT-ND	.71	.61	.47	PCF1495TR-ND	3,000	282.00/M	ECH-U1123GC9
		.015	2.0	PCF1496CT-ND	.73	.63	.49	PCF1496TR-ND	3,000	291.00/M	ECH-U1153GC9
		.018	2.0	PCF1497CT-ND	.71	.61	.47	PCF1497TR-ND	3,000	282.00/M	ECH-U1183GC9
		.022	2.4	PCF1498CT-ND	.78	.68	.52	PCF1498TR-ND	2,000	311.00/M	ECH-U1223GC9
		.027	2.8	PCF1499CT-ND	.80	.70	.54	PCF1499TR-ND	2,000	321.00/M	ECH-U1273GC9
2416 (6041) Size	100	.033	1.8	PCF1500CT-ND	.95	.82	.63	PCF1500TR-ND	3,000	379.00/M	ECH-U1333GC9
		.039	2.0	PCF1501CT-ND	.97	.84	.65	PCF1501TR-ND	3,000	388.00/M	ECH-U1393GC9
		.047	2.4	PCF1502CT-ND	1.02	.89	.68	PCF1502TR-ND	2,000	408.00/M	ECH-U1473GC9
		.056	2.8	PCF1503CT-ND	1.05	.91	.70	PCF1503TR-ND	2,000	418.00/M	ECH-U1563GC9
		.068	3.2	PCF1504CT-ND	1.12	.97	.75	PCF1504TR-ND	2,000	447.00/M	ECH-U1683GC9
2820 (7150) Size	100	.082	2.8	PCF1505CT-ND	1.41	1.22	.94	PCF1505TR-ND	1,500	563.00/M	ECH-U1823GC9
		.1	3.0	PCF1506CT-ND	1.41	1.22	.94	PCF1506TR-ND	1,500	563.00/M	ECH-U1104GC9
		.12	3.4	PCF1507CT-ND	1.47	1.28	.98	PCF1507TR-ND	1,500	588.00/M	ECH-U1124GC9
2825 (7163) Size	100	.15	3.4	PCF1508CT-ND	1.61	1.40	1.08	PCF1508TR-ND	1,000	645.00	ECH-U1154GCV
		.18	4.0	PCF1509CT-ND	1.80	1.56	1.20	PCF1509TR-ND	1,000	721.00	ECH-U1184GCV
		.22	4.8	PCF1510CT-ND	1.97	1.71	1.31	PCF1510TR-ND	1,000	787.00	ECH-U1224GCV
ECH-U(C) (High Grade Type) 5% Tolerance Reflow/Flow											
1913 (4833) Size	50	.047	1.4	PCF1153CT-ND•	.57	.50	.38	PCF1153TR-ND	3,000	229.00/M	ECH-U1H473JC9
		.056	2.0	PCF1154CT-ND	.61	.53	.41	PCF1154TR-ND	3,000	242.00/M	ECH-U1H563JC9
		.068	2.0	PCF1155CT-ND•	.65	.56	.43	PCF1155TR-ND	3,000	257.00/M	ECH-U1H683JC9
		.082	2.4	PCF1156CT-ND	.72	.62	.48	PCF1156TR-ND	2,000	286.00/M	ECH-U1H823JC9
		.1	2.8	PCF1157CT-ND•	.78	.68	.52	PCF1157TR-ND	2,000	311.00/M	ECH-U1H104JC9
2416 (6041) Size	50	.12	1.8	PCF1158CT-ND	.96	.84	.64	PCF1158TR-ND	3,000	385.00/M	ECH-U1H124JC9
		.15	2.4	PCF1159CT-ND	1.10	.95	.73	PCF1159TR-ND	2,000	439.00/M	ECH-U1H154JC9
		.18	2.8	PCF1160CT-ND	1.25	1.09	.84	PCF1160TR-ND	2,000	501.00/M	ECH-U1H184JC9
		.22	3.2	PCF1161CT-ND	1.43	1.24	.95	PCF1161TR-ND	2,000	570.00/M	ECH-U1H224JC9
1913 (4833) Size	100	.01	1.4	PCF1477CT-ND	.63	.55	.42	PCF1477TR-ND	3,000	253.00/M	ECH-U1103JC9
		.012	1.4	PCF1478CT-ND	.63	.55	.42	PCF1478TR-ND	3,000	253.00/M	ECH-U1123JC9
		.015	2.0	PCF1479CT-ND	.63	.55	.42	PCF1479TR-ND	3,000	253.00/M	ECH-U1153JC9
		.018	2.0	PCF1480CT-ND	.63	.55	.42	PCF1480TR-ND	3,000	253.00/M	ECH-U1183JC9
		.022	2.4	PCF1481CT-ND	.66	.57	.44	PCF1481TR-ND	2,000	262.00/M	ECH-U1223JC9
		.027	2.8	PCF1482CT-ND	.68	.59	.46	PCF1482TR-ND	2,000	272.00/M	ECH-U1273JC9
2416 (6041) Size	100	.033	1.8	PCF1483CT-ND	.80	.70	.54	PCF1483TR-ND	3,000	321.00/M	ECH-U1333JC9
		.039	2.0	PCF1484CT-ND	.84	.73	.56	PCF1484TR-ND	3,000	335.00/M	ECH-U1393JC9
		.047	2.4	PCF1485CT-ND	.88	.76	.59	PCF1485TR-ND	2,000	350.00/M	ECH-U1473JC9
		.056	2.8	PCF1486CT-ND	.89	.77	.59	PCF1486TR-ND	2,000	355.00/M	ECH-U1563JC9
		.068	3.2	PCF1487CT-ND	.93	.80	.62	PCF1487TR-ND	2,000	369.00/M	ECH-U1683JC9
2820 (7150) Size	100	.082	2.8	PCF1488CT-ND	1.26	1.10	.84	PCF1488TR-ND	1,500	505.00/M	ECH-U1823JC9
		.1	3.0	PCF1489CT-ND	1.31	1.14	.88	PCF1489TR-ND	1,500	525.00/M	ECH-U1104JC9
		.12	3.4	PCF1490CT-ND	1.32	1.15	.89	PCF1490TR-ND	1,500	529.00/M	ECH-U1124JC9
2825 (7163) Size	100	.15	3.4	PCF1491CT-ND	1.44	1.25	.96	PCF1491TR-ND	1,000	574.00	ECH-U1154JCV
		.18	4.0	PCF1492CT-ND	1.58	1.37	1.06	PCF1492TR-ND	1,000	633.00	ECH-U1184JCV
		.22	4.8	PCF1493CT-ND	1.72	1.49	1.15	PCF1493TR-ND	1,000	688.00	ECH-U1224JCV

ECH-U(X) Series

Specifcations: • Operating Temperature: -55°C to +125°C • Rated Voltage: 16VDC, 50VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Reflow Soldering Conditions: 260°C max., 30 sec. max. at more than 230°C (temp. at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECH-U(X) (High Grade Type) 2% Tolerance, Reflow Only											
0603 (1608) Size	16	.0001	.7	PCF1441CT-ND	.28	.24	.19	PCF1441TR-ND	4,000	110.00/M	ECH-U1C101GX5
		.00012	.7	PCF1442CT-ND	.28	.24	.19	PCF1442TR-ND	4,000	110.00/M	ECH-U1C121GX5
		.00015	.7	PCF1443CT-ND	.28	.24	.19	PCF1443TR-ND	4,000	110.00/M	ECH-U1C151GX5
		.00018	.7	PCF1444CT-ND	.28	.24	.19	PCF1444TR-ND	4,000	110.00/M	ECH-U1C181GX5
		.00022	.7	PCF1445CT-ND	.28	.24	.19	PCF1445TR-ND	4,000	110.00/M	ECH-U1C221GX5
		.00027	.7	PCF1446CT-ND	.28	.24	.19	PCF1446TR-ND	4,000	110.00/M	ECH-U1C271GX5
		.00033	.7	PCF1447CT-ND	.28	.24	.19	PCF1447TR-ND	4,000	110.00/M	ECH-U1C331GX5
		.00039	.7	PCF1448CT-ND	.28	.24	.19	PCF1448TR-ND	4,000	110.00/M	ECH-U1C391GX5
		.00047	.7	PCF1449CT-ND	.28	.24	.19	PCF1449TR-ND	4,000	110.00/M	ECH-U1C471GX5
		.00056	.7	PCF1450CT-ND	.28	.24	.19	PCF1450TR-ND	4,000	110.00/M	ECH-U1C561GX5
		.00068	.7	PCF1451CT-ND	.28	.24	.19	PCF1451TR-ND	4,000	110.00/M	ECH-U1C681GX5
		.00082	.7	PCF1452CT-ND	.28	.24	.19	PCF1452TR-ND	4,000	110.00/M	ECH-U1C821GX5
		.001	.7	PCF1453CT-ND	.28	.24	.19	PCF1453TR-ND	4,000	110.00/M	ECH-U1C102GX5
		.0012	.7	PCF1454CT-ND	.28	.24	.19	PCF1454TR-ND	4,000	110.00/M	ECH-U1C122GX5
		.0015	.7	PCF1455CT-ND	.28	.24	.19	PCF1455TR-ND	4,000	110.00/M	ECH-U1C152GX5
		.0018	.7	PCF1456CT-ND	.28	.24	.19	PCF1456TR-ND	4,000	110.00/M	ECH-U1C182GX5
		.0022	.7	PCF1457CT-ND	.28	.24	.19	PCF1457TR-ND	4,000	110.00/M	ECH-U1C222GX5
		.0027	.7	PCF1458CT-ND	.28	.24	.19	PCF1458TR-ND	4,000	110.00/M	ECH-U1C272GX5
0805 (2012) Size	16	.0033	0.9	PCF1171CT-ND	.34	.30	.23	PCF1171TR-ND	3,000	135.00/M	ECH-U1C332GX5
		.0039	0.9	PCF1172CT-ND	.34	.30	.23	PCF1172TR-ND	3,000	135.00/M	ECH-U1C392GX5
		.0047	0.9	PCF1173CT-ND	.34	.30	.23	PCF1173TR-ND	3,000	135.00/M	ECH-U1C472GX5
		.0056	0.9	PCF1174CT-ND	.34	.30	.23	PCF1174TR-ND	3,000	135.00/M	ECH-U1C562GX5
		.0068	0.9	PCF1175CT-ND	.34	.30	.23	PCF1175TR-ND	3,000	135.00/M	ECH-U1C682GX5
		.0082	1.1	PCF1176CT-ND	.38	.33	.25	PCF1176TR-ND	3,000	150.00/M	ECH-U1C822GX5
		.01	1.1	PCF1177CT-ND	.38	.33	.25	PCF1177TR-ND	3,000	150.00/M	ECH-U1C103GX5
1206 (3216) Size	16	.012	0.9	PCF1178CT-ND	.42	.36	.28	PCF1178TR-ND	3,000	165.00/M	ECH-U1C123GX5
		.015	0.9	PCF1179CT-ND	.42	.36	.28	PCF1179TR-ND	3,000	165.00/M	ECH-U1C153GX5
		.018	0.9	PCF1180CT-ND	.42	.36	.28	PCF1180TR-ND	3,000	165.00/M	ECH-U1C183GX5
		.022	0.9	PCF1181CT-ND	.42	.36	.28	PCF1181TR-ND	3,000	165.00/M	ECH-U1C223GX5
		.027	1.1	PCF1182CT-ND	.45	.39	.30	PCF1182TR-ND	3,000	180.00/M	ECH-U1C273GX5
		.033	1.1	PCF1183CT-ND	.45	.39	.30	PCF1183TR-ND	3,000	180.00/M	ECH-U1C333GX5
		.039	1.5	PCF1184CT-ND	.49	.43	.33	PCF1184TR-ND	2,000	195.00/M	ECH-U1C393GX5
		.047	1.5	PCF1185CT-ND	.49	.43	.33	PCF1185TR-ND	2,000	195.00/M	ECH-U1C473GX5
1210 (3225) Size	16	.056	1.5	PCF1186CT-ND	.56	.49	.38	PCF1186TR-ND	2,000	224.00/M	ECH-U1C563GX5
		.068	1.5	PCF1187CT-ND	.56	.49	.38	PCF1187TR-ND	2,000	224.00/M	ECH-U1C683GX5
		.082	2.1	PCF1188CT-ND	.68	.59	.45	PCF1188TR-ND	2,000	269.00/M	ECH-U1C823GX5
		0.1	2.1	PCF1189CT-ND	.68	.59	.45	PCF1189TR-ND	2,000	269.00/M	ECH-U1C104GX5

- ***PCF1-KIT-ND Digi-Key® ECH-U Series Capacitors Kit*** 10 each of parts indicated (180 pieces). Note book style storage in bin, storage guide included $59.95

(Continued)

Panasonic® SMT Capacitors *(Cont.)*

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECH-U(X) (High Grade Type) 2% Tolerance, Reflow Only											
0805 (2012) Size	50	.0001	0.9	PCF1284CT-ND	.33	.28	.22	PCF1284TR-ND	3,000	129.00/M	ECH-U1H101GX5
		.00012	0.9	PCF1285CT-ND	.33	.28	.22	PCF1285TR-ND	3,000	129.00/M	ECH-U1H121GX5
		.00015	0.9	PCF1286CT-ND	.33	.28	.22	PCF1286TR-ND	3,000	129.00/M	ECH-U1H151GX5
		.00018	0.9	PCF1287CT-ND	.33	.28	.22	PCF1287TR-ND	3,000	129.00/M	ECH-U1H181GX5
		.00022	0.9	PCF1288CT-ND	.33	.28	.22	PCF1288TR-ND	3,000	129.00/M	ECH-U1H221GX5
		.00027	0.9	PCF1289CT-ND	.33	.28	.22	PCF1289TR-ND	3,000	129.00/M	ECH-U1H271GX5
		.00033	0.9	PCF1290CT-ND	.33	.28	.22	PCF1290TR-ND	3,000	129.00/M	ECH-U1H331GX5
		.00039	0.9	PCF1291CT-ND	.33	.28	.22	PCF1291TR-ND	3,000	129.00/M	ECH-U1H391GX5
		.00047	0.9	PCF1292CT-ND	.33	.28	.22	PCF1292TR-ND	3,000	129.00/M	ECH-U1H471GX5
		.00056	0.9	PCF1293CT-ND	.33	.28	.22	PCF1293TR-ND	3,000	129.00/M	ECH-U1H561GX5
		.00068	0.9	PCF1294CT-ND	.33	.28	.22	PCF1294TR-ND	3,000	129.00/M	ECH-U1H681GX5
		.00082	0.9	PCF1295CT-ND	.33	.28	.22	PCF1295TR-ND	3,000	129.00/M	ECH-U1H821GX5
		.001	0.9	PCF1296CT-ND	.33	.28	.22	PCF1296TR-ND	3,000	129.00/M	ECH-U1H102GX5
		.0012	0.9	PCF1297CT-ND	.33	.28	.22	PCF1297TR-ND	3,000	129.00/M	ECH-U1H122GX5
		.0015	0.9	PCF1298CT-ND	.33	.28	.22	PCF1298TR-ND	3,000	129.00/M	ECH-U1H152GX5
		.0018	0.9	PCF1299CT-ND	.33	.28	.22	PCF1299TR-ND	3,000	129.00/M	ECH-U1H182GX5
		.0022	0.9	PCF1300CT-ND	.33	.28	.22	PCF1300TR-ND	3,000	129.00/M	ECH-U1H222GX5
		.0027	0.9	PCF1301CT-ND	.33	.28	.22	PCF1301TR-ND	3,000	129.00/M	ECH-U1H272GX5
1206 (3216) Size	50	.0033	0.9	PCF1302CT-ND	.42	.36	.28	PCF1302TR-ND	3,000	165.00/M	ECH-U1H332GX5
		.0039	0.9	PCF1303CT-ND	.42	.36	.28	PCF1303TR-ND	3,000	165.00/M	ECH-U1H392GX5
		.0047	0.9	PCF1304CT-ND	.42	.36	.28	PCF1304TR-ND	3,000	165.00/M	ECH-U1H472GX5
		.0056	0.9	PCF1305CT-ND	.42	.36	.28	PCF1305TR-ND	3,000	165.00/M	ECH-U1H562GX5
		.0068	0.9	PCF1306CT-ND	.42	.36	.28	PCF1306TR-ND	3,000	165.00/M	ECH-U1H682GX5
		.0082	1.1	PCF1307CT-ND	.45	.39	.30	PCF1307TR-ND	3,000	180.00/M	ECH-U1H822GX5
		.01	1.1	PCF1308CT-ND	.45	.39	.30	PCF1308TR-ND	3,000	180.00/M	ECH-U1H103GX5
1210 (3225) Size	50	.012	1.1	PCF1309CT-ND	.45	.39	.30	PCF1309TR-ND	2,000	180.00/M	ECH-U1H123GX5
		.015	1.1	PCF1310CT-ND	.45	.39	.30	PCF1310TR-ND	2,000	180.00/M	ECH-U1H153GX5
		.018	1.5	PCF1311CT-ND	.49	.43	.33	PCF1311TR-ND	2,000	195.00/M	ECH-U1H183GX5
		.022	1.5	PCF1312CT-ND	.49	.43	.33	PCF1312TR-ND	2,000	195.00/M	ECH-U1H223GX5
		.027	1.5	PCF1313CT-ND	.49	.43	.33	PCF1313TR-ND	2,000	195.00/M	ECH-U1H273GX5
		.033	2.1	PCF1314CT-ND	.56	.49	.38	PCF1314TR-ND	2,000	224.00/M	ECH-U1H333GX5
		.039	2.1	PCF1315CT-ND	.56	.49	.38	PCF1315TR-ND	2,000	224.00/M	ECH-U1H393GX5
ECH-U(X) (High Grade Type) 5% Tolerance, Reflow Only											
0603 (1608) Size	16	.0001	.7	PCF1459CT-ND	.27	.23	.18	PCF1459TR-ND	4,000	105.00/M	ECH-U1C101JX5
		.00012	.7	PCF1460CT-ND	.27	.23	.18	PCF1460TR-ND	4,000	105.00/M	ECH-U1C121JX5
		.00015	.7	PCF1461CT-ND	.27	.23	.18	PCF1461TR-ND	4,000	105.00/M	ECH-U1C151JX5
		.00018	.7	PCF1462CT-ND	.27	.23	.18	PCF1462TR-ND	4,000	105.00/M	ECH-U1C181JX5
		.00022	.7	PCF1463CT-ND	.27	.23	.18	PCF1463TR-ND	4,000	105.00/M	ECH-U1C221JX5
		.00027	.7	PCF1464CT-ND	.27	.23	.18	PCF1464TR-ND	4,000	105.00/M	ECH-U1C271JX5
		.00033	.7	PCF1465CT-ND	.27	.23	.18	PCF1465TR-ND	4,000	105.00/M	ECH-U1C331JX5
		.00039	.7	PCF1466CT-ND	.27	.23	.18	PCF1466TR-ND	4,000	105.00/M	ECH-U1C391JX5
		.00047	.7	PCF1467CT-ND	.27	.23	.18	PCF1467TR-ND	4,000	105.00/M	ECH-U1C471JX5
		.00056	.7	PCF1468CT-ND	.27	.23	.18	PCF1468TR-ND	4,000	105.00/M	ECH-U1C561JX5
		.00068	.7	PCF1469CT-ND	.27	.23	.18	PCF1469TR-ND	4,000	105.00/M	ECH-U1C681JX5
		.00082	.7	PCF1470CT-ND	.27	.23	.18	PCF1470TR-ND	4,000	105.00/M	ECH-U1C821JX5
		.001	.7	PCF1471CT-ND	.27	.23	.18	PCF1471TR-ND	4,000	105.00/M	ECH-U1C102JX5
		.0012	.7	PCF1472CT-ND	.27	.23	.18	PCF1472TR-ND	4,000	105.00/M	ECH-U1C122JX5
		.0015	.7	PCF1473CT-ND	.27	.23	.18	PCF1473TR-ND	4,000	105.00/M	ECH-U1C152JX5
		.0018	.7	PCF1474CT-ND	.27	.23	.18	PCF1474TR-ND	4,000	105.00/M	ECH-U1C182JX5
		.0022	.7	PCF1475CT-ND	.27	.23	.18	PCF1475TR-ND	4,000	105.00/M	ECH-U1C222JX5
		.0027	.7	PCF1476CT-ND	.27	.23	.18	PCF1476TR-ND	4,000	105.00/M	ECH-U1C272JX5

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
0805 (2012) Size	16	.0033	0.9	PCF1190CT-ND	.33	.28	.22	PCF1190TR-ND	3,000	129.00/M	ECH-U1C332JX5
		.0039	0.9	PCF1191CT-ND	.33	.28	.22	PCF1191TR-ND	3,000	129.00/M	ECH-U1C392JX5
		.0047	0.9	PCF1192CT-ND	.33	.28	.22	PCF1192TR-ND	3,000	129.00/M	ECH-U1C472JX5
		.0056	0.9	PCF1193CT-ND	.33	.28	.22	PCF1193TR-ND	3,000	129.00/M	ECH-U1C562JX5
		.0068	0.9	PCF1194CT-ND	.33	.28	.22	PCF1194TR-ND	3,000	129.00/M	ECH-U1C682JX5
		.0082	1.1	PCF1195CT-ND	.36	.31	.24	PCF1195TR-ND	3,000	143.00/M	ECH-U1C822JX5
		.01	1.1	PCF1196CT-ND	.36	.31	.24	PCF1196TR-ND	3,000	143.00/M	ECH-U1C103JX5
1206 (3216) Size	16	.012	0.9	PCF1197CT-ND	.39	.34	.26	PCF1197TR-ND	3,000	156.00/M	ECH-U1C123JX5
		.015	0.9	PCF1198CT-ND	.39	.34	.26	PCF1198TR-ND	3,000	156.00/M	ECH-U1C153JX5
		.018	0.9	PCF1199CT-ND	.39	.34	.26	PCF1199TR-ND	3,000	156.00/M	ECH-U1C183JX5
		.022	0.9	PCF1200CT-ND	.39	.34	.26	PCF1200TR-ND	3,000	156.00/M	ECH-U1C223JX5
		.027	1.1	PCF1201CT-ND	.43	.38	.29	PCF1201TR-ND	3,000	171.00/M	ECH-U1C273JX5
		.033	1.1	PCF1202CT-ND	.43	.38	.29	PCF1202TR-ND	3,000	171.00/M	ECH-U1C333JX5
		.039	1.5	PCF1203CT-ND	.47	.40	.31	PCF1203TR-ND	2,000	185.00/M	ECH-U1C393JX5
		.047	1.5	PCF1204CT-ND	.47	.40	.31	PCF1204TR-ND	2,000	185.00/M	ECH-U1C473JX5
1210 (3225) Size	16	.056	1.5	PCF1205CT-ND	.54	.47	.36	PCF1205TR-ND	2,000	214.00/M	ECH-U1C563JX5
		.068	1.5	PCF1206CT-ND	.54	.47	.36	PCF1206TR-ND	2,000	214.00/M	ECH-U1C683JX5
		.082	2.1	PCF1207CT-ND	.65	.56	.43	PCF1207TR-ND	2,000	257.00/M	ECH-U1C823JX5
		0.1	2.1	PCF1208CT-ND	.65	.56	.43	PCF1208TR-ND	2,000	257.00/M	ECH-U1C104JX5
0805 (2012) Size	50	.0001	0.9	PCF1316CT-ND	.31	.27	.21	PCF1316TR-ND	3,000	123.00/M	ECH-U1H101JX5
		.00012	0.9	PCF1317CT-ND	.31	.27	.21	PCF1317TR-ND	3,000	123.00/M	ECH-U1H121JX5
		.00015	0.9	PCF1318CT-ND	.31	.27	.21	PCF1318TR-ND	3,000	123.00/M	ECH-U1H151JX5
		.00018	0.9	PCF1319CT-ND	.31	.27	.21	PCF1319TR-ND	3,000	123.00/M	ECH-U1H181JX5
		.00022	0.9	PCF1320CT-ND	.31	.27	.21	PCF1320TR-ND	3,000	123.00/M	ECH-U1H221JX5
		.00027	0.9	PCF1321CT-ND	.31	.27	.21	PCF1321TR-ND	3,000	123.00/M	ECH-U1H271JX5
		.00033	0.9	PCF1322CT-ND	.31	.27	.21	PCF1322TR-ND	3,000	123.00/M	ECH-U1H331JX5
		.00039	0.9	PCF1323CT-ND	.31	.27	.21	PCF1323TR-ND	3,000	123.00/M	ECH-U1H391JX5
		.00047	0.9	PCF1324CT-ND	.31	.27	.21	PCF1324TR-ND	3,000	123.00/M	ECH-U1H471JX5
		.00056	0.9	PCF1325CT-ND	.31	.27	.21	PCF1325TR-ND	3,000	123.00/M	ECH-U1H561JX5
		.00068	0.9	PCF1326CT-ND	.31	.27	.21	PCF1326TR-ND	3,000	123.00/M	ECH-U1H681JX5
		.00082	0.9	PCF1327CT-ND	.31	.27	.21	PCF1327TR-ND	3,000	123.00/M	ECH-U1H821JX5
		.001	0.9	PCF1328CT-ND	.31	.27	.21	PCF1328TR-ND	3,000	123.00/M	ECH-U1H102JX5
		.0012	0.9	PCF1329CT-ND	.31	.27	.21	PCF1329TR-ND	3,000	123.00/M	ECH-U1H122JX5
		.0015	0.9	PCF1330CT-ND	.31	.27	.21	PCF1330TR-ND	3,000	123.00/M	ECH-U1H152JX5
		.0018	0.9	PCF1331CT-ND	.31	.27	.21	PCF1331TR-ND	3,000	123.00/M	ECH-U1H182JX5
		.0022	0.9	PCF1332CT-ND	.31	.27	.21	PCF1332TR-ND	3,000	123.00/M	ECH-U1H222JX5
		.0027	0.9	PCF1333CT-ND	.31	.27	.21	PCF1333TR-ND	3,000	123.00/M	ECH-U1H272JX5
1206 (3216) Size	50	.0033	0.9	PCF1334CT-ND	.39	.34	.26	PCF1334TR-ND	3,000	156.00/M	ECH-U1H332JX5
		.0039	0.9	PCF1335CT-ND	.39	.34	.26	PCF1335TR-ND	3,000	156.00/M	ECH-U1H392JX5
		.0047	0.9	PCF1336CT-ND	.39	.34	.26	PCF1336TR-ND	3,000	156.00/M	ECH-U1H472JX5
		.0056	0.9	PCF1337CT-ND	.39	.34	.26	PCF1337TR-ND	3,000	156.00/M	ECH-U1H562JX5
		.0068	0.9	PCF1338CT-ND	.39	.34	.26	PCF1338TR-ND	3,000	156.00/M	ECH-U1H682JX5
		.0082	1.1	PCF1339CT-ND	.43	.38	.29	PCF1339TR-ND	3,000	171.00/M	ECH-U1H822JX5
		.01	1.1	PCF1340CT-ND	.43	.38	.29	PCF1340TR-ND	3,000	171.00/M	ECH-U1H103JX5
1210 (3225) Size	50	.012	1.1	PCF1341CT-ND	.43	.38	.29	PCF1341TR-ND	2,000	171.00/M	ECH-U1H123JX5
		.015	1.1	PCF1342CT-ND	.43	.38	.29	PCF1342TR-ND	2,000	171.00/M	ECH-U1H153JX5
		.018	1.5	PCF1343CT-ND	.47	.40	.31	PCF1343TR-ND	2,000	185.00/M	ECH-U1H183JX5
		.022	1.5	PCF1344CT-ND	.47	.40	.31	PCF1344TR-ND	2,000	185.00/M	ECH-U1H223JX5
		.027	1.5	PCF1345CT-ND	.47	.40	.31	PCF1345TR-ND	2,000	185.00/M	ECH-U1H273JX5
		.033	2.1	PCF1346CT-ND	.54	.47	.36	PCF1346TR-ND	2,000	214.00/M	ECH-U1H333JX5
		.039	2.1	PCF1347CT-ND	.54	.47	.36	PCF1347TR-ND	2,000	214.00/M	ECH-U1H393JX5

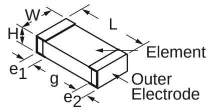
Panasonic® SMT Capacitors ECP-U (SF Submicron)

FEATURES: • Small in size • Low ESR • Anti-shock • Excellent sound quality **APPLICATIONS:** • Coupling • Decoupling • Noise Reduction **SPECIFICATIONS:** • Operating Temperature: -40°C to +85°C • Rated Voltage: 16VDC • Capacitance Range: 0.1 to 1.0µF (E6 series) • Capacitance Tolerance: ±20% (M) • Dissipation Factor: 1.5% max. (20°C, 1kHz) • CWithstand Voltage: Between terminals rated volt (VDC) x 175%, 1 to 5s • Insulation Resistance: C≤0.33µF: 1000MΩ min. (20°C, 10VDC 60s), C>0.33µF: 300MΩ min. (20°C, 10VDC 60s) • Soldering Reflow Conditions: 240°C max. and 30 sec. max. at more than 210°C (temp. at cap. surface)

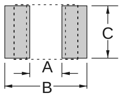
Note: Solder paste/flux shall have less than 0.1wt% halogen content.

Storage: The unpacked products shall be kept in polyethylene bag together with well-dried silica-gel (from 5g to 10g) or be kept in storage at a temperature of 25°C, with a humidity less than 50% RH.

This capacitor shall be used in only reflow method. Don't use in flow, dipping, or VPS soldering method.



A recommended solder paste thickness is between 0.10mm and 0.15mm.



Type	Dimensions (mm) e1 • e2	g
J2	0.45 ± 0.25	0.6min.
H1-H2-H3	0.65 ± 0.3	1.0min.
G2	0.65 ± 0.3	1.0min.

Type / Size Code	Dim. of Land (mm) A	B	C
J2 (2012)	0.8	2.4	1.1
H1-H2-H3 (3216)	1.8	3.6	1.4
G2 (3225)	1.8	3.6	2.3

Item Code	WV DC	Cap. µF	Dimensions (±0.2) L	W	H	Type	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 2,000	3,000	Panasonic Part No.
ECP-U (A) Type — 20% Tolerance														
0805	16	.10	2.0	1.25	1.0	J2	PCF1126CT-ND	.33	.29	.22	PCF1126TR-ND	—	132.00/M	ECP-U1C104MA5
1206	16	.15	3.2	1.60	.80	H1	PCF1127CT-ND	.40	.35	.27	PCF1127TR-ND	—	158.00/M	ECP-U1C154MA5
1206	16	.22	3.2	1.60	.80	H1	PCF1128CT-ND	.47	.40	.31	PCF1128TR-ND	—	185.00/M	ECP-U1C224MA5
1206	16	.33	3.2	1.60	1.0	H2	PCF1129CT-ND	.47	.40	.31	PCF1129TR-ND	—	185.00/M	ECP-U1C334MA5
1206	16	.47	3.2	1.60	1.4	H3	PCF1130CT-ND	.53	.46	.35	PCF1130TR-ND	211.00/M	—	ECP-U1C474MA5
1206	16	.68	3.2	1.60	1.4	H3	PCF1131CT-ND	.53	.46	.35	PCF1131TR-ND	211.00/M	—	ECP-U1C684MA5
1210	16	1.0	3.2	2.5	1.4	G2	PCF1132CT-ND	.59	.51	.39	PCF1132TR-ND	235.00/M	—	ECP-U1C105MA5

Panasonic® M-Series Polyester and Foil Capacitors

Features:
High insulation resistance. Non-inductive construction: with tinned copper leads welded to the foils. High peak current capability. Solvent-resistant resin coated body.

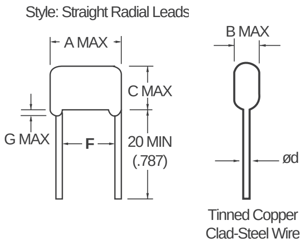
Applications:
Blocking, by-pass and coupling of D.C. and signals to VHF range. Pulse, logic and timing circuits. Light-duty pulse forming networks. Filter and noise suppression circuits. General purpose usage.

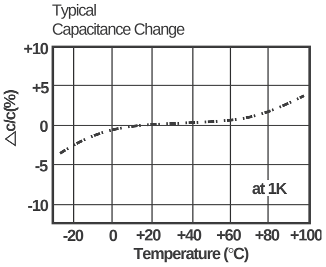
Specifications:
Reference standard: JIS C5113 Characteristic M. Operating temperature range: -40°C ~ +85°C. Construction: Polyester film, non-inductive, phenolic/epoxy resin coating, wax impregnation.

Electrical Specifications:
Capacitance Tolerance: ±10% (K). Insulation Resistance: Greater than 10,000 MV. Dissipation Factor: Less than 1.0% at 1 KHZ. Dielectric Withstanding Voltage: 250% of rated voltage for 5 seconds. Operating Temperature: -40°C ~+80°C.

PANASONIC ECQ CROSS REFERENCE

Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TWR:** 601PE, 601CPE; **Pactron:** PE, FM; **Secor:** MFDN, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1808; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissiei:** AMZ, AMX, AMR, AMM.





Cap. µF	Dimensions (mm) A	B	C	F±1.25	G	d	Digi-Key Part No.	Pricing 10	100	1,000	5,000	10,000	Panasonic Part No.
200 WV DC													
.001	9.0	5.0	9.0	5.5	2	0.6	P1029-ND*	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2102KZ
.0012	9.0	5.0	9.0	5.5	2	0.6	P1030-ND	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2122KZ
.0015	9.0	5.0	9.5	5.5	3	0.6	P1031-ND*	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2152KZ
.0018	9.0	5.5	9.5	5.5	3	0.6	P1032-ND	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2182KZ
.0022	9.0	6.0	10.0	5.5	3	0.6	P1033-ND*	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2222KZ
.0027	9.0	5.0	9.0	5.5	3	0.6	P1034-ND	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2272KZ
.0033	9.0	5.0	9.0	5.5	3	0.6	P1035-ND*	1.35	11.24	67.00	62.00/M	58.00/M	ECQ-M2332KZ
.0039	12.0	5.5	9.5	7.5	3	0.6	P1036-ND	1.35	11.24	67.00	62.00/M	58.00/M	ECQ-M2392KZ
.0047	12.0	6.0	9.5	7.5	3	0.6	P1037-ND*	1.35	11.24	67.00	62.00/M	58.00/M	ECQ-M2472KZ
.0056	12.0	6.0	9.5	7.5	3	0.6	P1038-ND	1.35	11.24	67.00	62.00/M	58.00/M	ECQ-M2562KZ
.0068	12.0	6.0	10.5	7.5	3	0.6	P1039-ND*	1.35	11.24	67.00	62.00/M	58.00/M	ECQ-M2682KZ
.0082	14.0	5.5	10.0	9.5	3	0.6	P1040-ND	1.35	11.24	67.00	62.00/M	58.00/M	ECQ-M2822KZ
.01	14.0	6.0	10.0	9.5	3	0.6	P1041-ND*	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2103KZ
.012	14.0	6.0	10.5	9.5	3	0.6	P1042-ND	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2123KZ
.015	14.0	6.5	11.5	9.5	3	0.6	P1043-ND*	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2153KZ
.018	17.0	5.5	10.0	12.5	3	0.6	P1044-ND	1.32	10.97	65.00	61.00/M	57.00/M	ECQ-M2183KZ
.022	17.0	5.5	11.0	12.5	3	0.6	P1045-ND*	1.44	12.04	72.00	67.00/M	63.00/M	ECQ-M2223KZ
.027	17.0	6.0	11.0	12.5	3	0.6	P1046-ND	1.48	12.31	73.00	68.00/M	64.00/M	ECQ-M2273KZ
.033	17.0	6.5	11.5	12.5	3	0.6	P1047-ND*	1.57	13.11	78.00	73.00/M	68.00/M	ECQ-M2333KZ
.039	17.0	6.0	13.5	12.5	3	0.6	P1048-ND	1.64	13.64	81.00	76.00/M	71.00/M	ECQ-M2393KZ
.047	17.0	6.5	14.0	12.5	3	0.6	P1049-ND*	1.67	13.91	83.00	77.00/M	72.00/M	ECQ-M2473KZ
.056	20.0	6.5	14.0	14.5	3	0.6	P1050-ND	1.80	14.98	89.00	83.00/M	78.00/M	ECQ-M2563KZ
.068	20.0	7.0	14.5	14.5	3	0.6	P1051-ND*	1.89	15.78	94.00	88.00/M	82.00/M	ECQ-M2683KZ
.082	20.0	7.5	15.0	15.0	3	0.6	P1052-ND	1.93	16.05	96.00	89.00/M	83.00/M	ECQ-M2823KZ
.1	20.0	8.0	17.0	15.0	3	0.6	P1053-ND*	2.38	19.80	118.00	110.00/M	103.00/M	ECQ-M2104KZ
.12	20.0	8.5	17.5	15.0	3	0.8	P1054-ND	2.82	23.54	141.00	131.00/M	122.00/M	ECQ-M2124KZ
.15	20.0	9.5	18.5	15.0	3	0.8	P1055-ND*	2.79	23.27	139.00	129.00/M	121.00/M	ECQ-M2154KZ
.18	23.0	13.0	22.0	18.5	3	0.8	P1056-ND	4.21	35.04	209.00	195.00/M	182.00/M	ECQ-M2184KZ
.22	23.0	14.0	23.0	18.5	3	0.8	P1057-ND*	4.21	35.04	209.00	195.00/M	182.00/M	ECQ-M2224KZ
400 WV DC													
.001	11.0	5.5	9.5	6.5	2	0.6	P1058-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4102KZ
.0012	11.0	6.0	10.0	6.5	2	0.6	P1059-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4122KZ
.0015	11.0	6.0	10.0	6.5	2	0.6	P1060-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4152KZ
.0018	11.0	6.0	10.0	6.5	2	0.6	P1061-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4182KZ
.0022	11.0	6.5	10.5	6.5	2	0.6	P1062-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4222KZ
.0027	12.0	6.0	10.0	7.5	2	0.6	P1063-ND	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4272KZ
.0033	12.0	6.5	10.5	7.5	2	0.6	P1064-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4332KZ
.0039	12.0	6.5	10.5	7.5	2	0.6	P1065-ND	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4392KZ
.0047	14.0	6.0	10.0	9.5	2	0.6	P1066-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4472KZ
.0056	14.0	6.0	10.0	9.5	2	0.6	P1067-ND	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4562KZ
.0068	14.0	6.5	10.5	9.5	3	0.6	P1068-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4682KZ
.0082	14.0	6.5	12.0	9.5	3	0.6	P1069-ND	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4822KZ
.01	14.0	7.0	12.5	9.5	3	0.6	P1070-ND†	1.68	14.00	84.00	78.00/M	73.00/M	ECQ-M4103KZ
.012	17.0	6.0	12.0	12.5	3	0.6	P1071-ND	1.80	15.00	90.00	83.00/M	78.00/M	ECQ-M4123KZ
.015	17.0	6.5	12.5	12.5	3	0.6	P1072-ND†	1.80	15.00	90.00	83.00/M	78.00/M	ECQ-M4153KZ
.018	17.0	7.0	13.0	12.5	3	0.6	P1073-ND	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-M4183KZ
.022	17.0	7.5	13.5	12.5	3	0.6	P1074-ND†	1.95	16.25	97.00	90.00/M	84.00/M	ECQ-M4223KZ
.027	20.0	7.0	14.5	15.0	2	0.7	P1075-ND	2.16	18.00	107.00	100.00/M	94.00/M	ECQ-M4273KZ
.033	20.0	7.5	15.0	15.0	2	0.7	P1076-ND†	2.28	19.00	113.00	106.00/M	99.00/M	ECQ-M4333KZ
.039	20.0	8.5	16.0	15.0	3	0.7	P1077-ND	2.40	20.00	119.00	111.00/M	104.00/M	ECQ-M4393KZ
.047	20.0	9.0	16.5	15.0	3	0.7	P1078-ND†	2.55	21.25	127.00	118.00/M	110.00/M	ECQ-M4473KZ
.056	23.0	8.5	15.5	18.0	3	0.7	P1079-ND	2.88	24.00	143.00	133.00/M	125.00/M	ECQ-M4563KZ
.068	23.0	9.0	16.5	18.0	3	0.7	P1080-ND†	3.12	26.00	155.00	144.00/M	135.00/M	ECQ-M4683KZ
.082	24.0	9.5	17.0	18.0	3	0.8	P1081-ND	3.42	28.50	170.00	158.00/M	148.00/M	ECQ-M4823KZ
.1	24.0	10.0	19.0	18.0	3	0.8	P1082-ND†	3.99	33.25	199.00	185.00/M	173.00/M	ECQ-M4104KZ

M200-KIT-ND** ***Digi-Key® M-Series Capacitors Kit 200 Volt Assortment. 10 each of parts indicated. Notebook style storage case and bin storage guide included. **$29.95**
†M400-KIT-ND ***Digi-Key® M-Series Capacitors Kit*** 400 Volt Assortment. 10 each of parts indicated. Notebook style storage case and bin storage guide included. **$29.95**

Panasonic® Metallized Polyester Capacitors – ECQE(C) Type

Features:

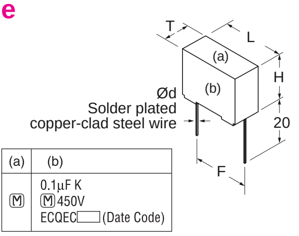
- Box-type construction (case meets UL94V-0 flame classification, meets requirements of IEC950)
- Operating temperature range: -25°C to +85°C (105°C*)

(* Requires voltage, current and pulse current de-rating)

Application:
Interference suppressor for active circuits

Electrical Specifications:

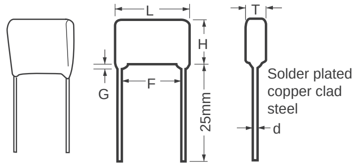
- Rated Voltage: 450VDC
- Capacitance Tolerance: ±10%
- Withstand Voltage: Between Terminals: 1 minute at 150% of rated voltage (The capacitor shall be applied the voltage through a resistor of 2kΩ or more when charged and discharged.) Between Terminals connected together and case: 1-5 seconds at 200% of rated voltage
- Insulation Resistance Between Terminals: 9,000 MΩ or more (when C≤0.33µF) 3,000 MΩ/µF or more (when C>0.33µF) at 100VDC±15V for 60±5 seconds, at 20°C
- Dissipation Factor: 1.0% or less (measured at a frequency of 1±0.2kHz, at 20°C)

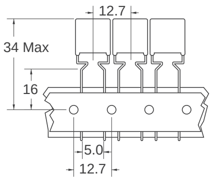


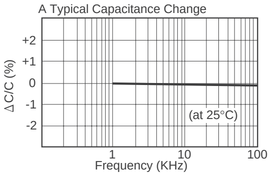
(a)	(b)
Ⓜ	0.1µF K Ⓜ450V ECQEC☐(Date Code)

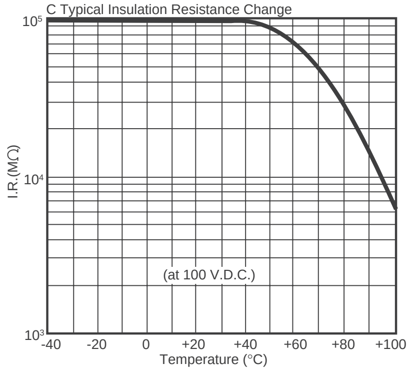
WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	d	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
450	.10	10%	18.5	5.5	14.5	15.0	0.6	P10755-ND	.62	.53	.44	.27	ECQ-E2W104KC
	.15	10%	18.5	6.0	16.5	15.0	0.6	P10756-ND	.75	.65	.54	.32	ECQ-E2W154KC
	.22	10%	18.5	7.0	18.0	15.0	0.6	P10757-ND	.89	.77	.64	.38	ECQ-E2W224KC
	.33	10%	18.0	9.0	17.5	15.0	0.8	P10758-ND	1.10	.94	.79	.47	ECQ-E2W334KC
	.47	10%	18.0	9.5	17.5	15.0	0.8	P10759-ND	1.30	1.12	.93	.56	ECQ-E2W474KC
	.68	10%	25.5	10.5	20.0	22.5	0.8	P10760-ND	1.77	1.53	1.27	.76	ECQ-E2W684KC
	1.0	10%	25.5	12.5	22.0	22.5	0.8	P10761-ND	2.32	2.00	1.66	1.00	ECQ-E2W105KC
	1.5	10%	25.5	15.5	24.5	22.5	0.8	P10762-ND	3.07	2.64	2.20	1.31	ECQ-E2W155KC
	2.2	10%	31.0	14.0	24.5	27.5	0.8	P10763-ND	4.03	3.45	2.88	1.72	ECQ-E2W225KC

Panasonic® P-Series Polypropylene Capacitors









Features: • Wide capacitance range • Close capacitance tolerance • High insulation resistance • Low dissipation factor • Non-inductive const. • Epoxy resin coating

Applications: • Blocking, by-pass and coupling of DC and signal to UHF range • Pulse, logic and timing circuit • Light duty pulse forming network • Filter and noise suppression circuit

Electrical Specifications: • Reference Standard: EIAJ RC-3670A • Temperature Range: –40°C to +85°C • Dissipation Factor: .1% max. at 1KHz and 25°C • Withstand Voltage: 1-5 seconds at 250% of rated voltage • Insulation Resistance: 45,000 MΩ min., for values less than .33µF. 15,000 MΩ/µF min., for .33µF and greater. (Measured after a 2-minute charge at rated voltage and 25°C.)

PANASONIC ECQ-P CROSS REF.

Sprague: 715P
Westlake: 173/174
Mepco: 719E1/719H1
Secor: PFDS/PFDR
Roderstein: KP1835
Wima: FKP
CSF Thompson: PL/PS
Rubycon: PP
Nissel: APS/APA.

WV DC	Cap. µF	Tolerance	Dimensions (mm)						Digi-Key	Pricing						Panasonic
			L	T	H	F	G	d	Part No.	1	10	100	1,000	5,000	10,000	Part No.
50	.0001	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3101-ND*	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H101JZ
	.00012	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3121-ND	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H121JZ
	.00015	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3151-ND	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H151JZ
	.00018	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3181-ND	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H181JZ
	.00022	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3221-ND*	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H221JZ
	.00027	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3271-ND	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H271JZ
	.00033	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3331-ND*	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H331JZ
	.00039	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3391-ND	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H391JZ
	.00047	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3471-ND*	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H471JZ
	.00056	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3561-ND	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H561JZ
	.00068	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3681-ND	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H681JZ
	.00082	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3821-ND	.28	2.43	20.25	121.00	112.00/M	105.00/M	ECQ-P1H821JZ
	.001	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3102-ND*	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H102GZ
	.0012	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3122-ND	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H122GZ
	.0015	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3152-ND	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H152GZ
	.0018	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3182-ND	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H182GZ
	.0022	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3222-ND*	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H222GZ
	.0027	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3272-ND	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H272GZ
	.0033	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3332-ND*	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H332GZ
	.0039	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3392-ND	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H392GZ
	.0047	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3472-ND*	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P1H472GZ
	.0056	2%	8.5	4.5	8.0	5.0	1.0	0.5	P3562-ND	.49	4.20	35.00	209.00	194.00/M	182.00/M	ECQ-P1H562GZ
	.0068	2%	8.5	5.0	8.0	5.0	1.0	0.5	P3682-ND	.49	4.20	35.00	209.00	194.00/M	182.00/M	ECQ-P1H682GZ
	.0082	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3822-ND	.49	4.20	35.00	209.00	194.00/M	182.00/M	ECQ-P1H822GZ
	.01	2%	12.0	5.0	8.5	7.5	1.0	0.6	P3103-ND*	.53	4.50	37.50	224.00	208.00/M	195.00/M	ECQ-P1H103GZ
	.012	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3123-ND	.53	4.50	37.50	224.00	208.00/M	195.00/M	ECQ-P1H123GZ
	.015	2%	12.0	5.0	9.0	7.5	1.0	0.6	P3153-ND	.53	4.50	37.50	224.00	208.00/M	195.00/M	ECQ-P1H153GZ
	.018	2%	12.0	5.5	9.5	7.5	1.0	0.6	P3183-ND	.57	4.86	40.50	242.00	225.00/M	210.00/M	ECQ-P1H183GZ
	.022	2%	12.0	5.5	10.5	7.5	1.0	0.6	P3223-ND*	.57	4.86	40.50	242.00	225.00/M	210.00/M	ECQ-P1H223GZ
	.027	2%	12.0	6.0	11.0	7.5	1.0	0.6	P3273-ND	.59	5.07	42.25	252.00	235.00/M	219.00/M	ECQ-P1H273GZ
	.033	2%	12.0	6.5	11.5	7.5	1.0	0.6	P3333-ND*	.59	5.07	42.25	252.00	235.00/M	219.00/M	ECQ-P1H333GZ
	.039	2%	14.5	5.5	12.0	10.0	1.0	0.6	P3393-ND	.64	5.52	46.00	275.00	256.00/M	239.00/M	ECQ-P1H393GZ
	.047	2%	14.5	6.0	12.5	10.0	1.0	0.6	P3473-ND*	.64	5.52	46.00	275.00	256.00/M	239.00/M	ECQ-P1H473GZ
	.056	2%	14.5	6.5	13.5	10.0	1.0	0.6	P3563-ND	.72	6.15	51.25	306.00	285.00/M	266.00/M	ECQ-P1H563GZ
	.068	2%	14.5	7.0	14.0	10.0	1.0	0.6	P3683-ND	.72	6.15	51.25	306.00	285.00/M	266.00/M	ECQ-P1H683GZ
	.082	2%	17.0	7.0	14.0	12.5	1.0	0.6	P3823-ND	.86	7.41	61.75	369.00	343.00/M	321.00/M	ECQ-P1H823GZ
	.1	2%	17.0	7.5	14.5	12.5	1.0	0.6	P3104-ND*	.86	7.41	61.75	369.00	343.00/M	321.00/M	ECQ-P1H104GZ
	.12	2%	17.0	8.5	15.5	12.5	1.0	0.6	P3124-ND	1.06	9.06	75.50	451.00	419.00/M	392.00/M	ECQ-P1H124GZ
	.15	2%	20.0	8.0	15.5	15.0	1.0	0.6	P3154-ND	1.06	9.06	75.50	451.00	419.00/M	392.00/M	ECQ-P1H154GZ
	.18	2%	20.0	9.0	16.0	15.0	1.0	0.6	P3184-ND	1.28	11.01	91.75	548.00	510.00/M	477.00/M	ECQ-P1H184GZ
	.22	2%	20.0	9.5	17.0	15.0	1.0	0.6	P3224-ND*	1.28	11.01	91.75	548.00	510.00/M	477.00/M	ECQ-P1H224GZ
	.27	2%	20.0	10.5	18.0	15.0	1.0	0.6	P3274-ND	1.58	13.56	113.00	675.00	628.00/M	587.00/M	ECQ-P1H274GZ
	.33	2%	22.5	10.0	19.5	17.5	1.0	0.8	P3334-ND*	1.58	13.56	113.00	675.00	628.00/M	587.00/M	ECQ-P1H334GZ
	.39	2%	22.5	11.0	20.0	17.5	1.0	0.8	P3394-ND	1.89	16.20	135.00	806.00	750.00/M	701.00/M	ECQ-P1H394GZ
	.47	2%	22.5	12.0	21.0	17.5	1.0	0.8	P3474-ND	1.89	16.20	135.00	806.00	750.00/M	701.00/M	ECQ-P1H474GZ

WV DC	Cap. µF	Tolerance	Dimensions (mm)					Digi-Key	Tape & Box Pricing					Panasonic
			L	T	H	F	d	Part No.	500	1,000	5,000	10,000	25,000	Part No.
50	.0001	5%	8.5	4.5	7.5	5.0	0.5	P3101TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H101JZ3
	.00012	5%	8.5	4.5	7.5	5.0	0.5	P3121TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H121JZ3
	.00015	5%	8.5	4.5	7.5	5.0	0.5	P3151TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H151JZ3
	.00018	5%	8.5	4.5	7.5	5.0	0.5	P3181TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H181JZ3
	.00022	5%	8.5	4.5	7.5	5.0	0.5	P3221TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H221JZ3
	.00027	5%	8.5	4.5	7.5	5.0	0.5	P3271TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H271JZ3
	.00033	5%	8.5	4.5	7.5	5.0	0.5	P3331TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H331JZ3
	.00039	5%	8.5	4.5	7.5	5.0	0.5	P3391TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H391JZ3
	.00047	5%	8.5	4.5	7.5	5.0	0.5	P3471TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H471JZ3
	.00056	5%	8.5	4.5	7.5	5.0	0.5	P3561TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H561JZ3
	.00068	5%	8.5	4.5	7.5	5.0	0.5	P3681TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H681JZ3
	.00082	5%	8.5	4.5	7.5	5.0	0.5	P3821TB-ND	—	138.00	133.00/M	121.00/M	106.00/M	ECQ-P1H821JZ3
	.001	2%	8.5	4.5	7.5	5.0	0.5	P3102TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H102GZ3
	.0012	2%	8.5	4.5	7.5	5.0	0.5	P3122TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H122GZ3
	.0015	2%	8.5	4.5	7.5	5.0	0.5	P3152TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H152GZ3
	.0018	2%	8.5	4.5	7.5	5.0	0.5	P3182TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H182GZ3
	.0022	2%	8.5	4.5	7.5	5.0	0.5	P3222TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H222GZ3
	.0027	2%	8.5	4.5	7.5	5.0	0.5	P3272TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H272GZ3
	.0033	2%	8.5	4.5	7.5	5.0	0.5	P3332TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H332GZ3
	.0039	2%	8.5	4.5	7.5	5.0	0.5	P3392TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H392GZ3
	.0047	2%	8.5	4.5	7.5	5.0	0.5	P3472TB-ND	—	214.00	207.00/M	188.00/M	166.00/M	ECQ-P1H472GZ3
	.0056	2%	8.5	4.5	8.0	5.0	0.5	P3562TB-ND	—	228.00	221.00/M	200.00/M	177.00/M	ECQ-P1H562GZ3
	.0068	2%	8.5	5.0	8.0	5.0	0.5	P3682TB-ND	—	228.00	221.00/M	200.00/M	177.00/M	ECQ-P1H682GZ3
	.0082	2%	12.0	5.5	9.0	5.0	0.6	P3822TB-ND	—	228.00	221.00/M	200.00/M	177.00/M	ECQ-P1H822GZ3
	.01	2%	12.0	5.0	8.5	5.0	0.6	P3103TB-ND	—	245.00	237.00/M	215.00/M	190.00/M	ECQ-P1H103GZ3
	.012	2%	12.0	5.5	9.0	5.0	0.6	P3123TB-ND	—	245.00	237.00/M	215.00/M	190.00/M	ECQ-P1H123GZ3
	.015	2%	12.0	5.0	9.0	5.0	0.6	P3153TB-ND	—	245.00	237.00/M	215.00/M	190.00/M	ECQ-P1H153GZ3
	.018	2%	12.0	5.5	9.5	5.0	0.6	P3183TB-ND	—	264.00	255.00/M	232.00/M	204.00/M	ECQ-P1H183GZ3
	.022	2%	12.0	5.5	10.5	5.0	0.6	P3223TB-ND	—	264.00	255.00/M	232.00/M	204.00/M	ECQ-P1H223GZ3
	.027	2%	12.0	6.0	11.0	5.0	0.6	P3273TB-ND	137.50	—	266.00/M	241.00/M	213.00/M	ECQ-P1H273GZ3
	.033	2%	12.0	6.5	11.5	5.0	0.6	P3333TB-ND	137.50	—	266.00/M	241.00/M	213.00/M	ECQ-P1H333GZ3

*** P3100-KIT-ND** ***Digi-Key® P-Series Capacitors Kit*** 10 each of parts indicated. Notebook style storage and bin, storage guide included.……………………………………**$69.95**

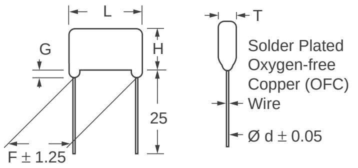
Polypropylene Film Capacitors - ECQP(U)

Non-inductive construction using Polypropylene film with flame retardant epoxy resin coating.

Features:
- Low loss and excellent frequency characteristics.
- Excellent temperature characteristics.
- High insulation resistance.

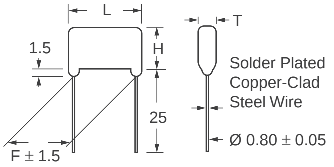
Applications:
- High frequency and high current circuits.
- General purpose circuit.

Electrical Specifications:
- Reference Standard: EIAJ RC-3670B. Characteristics P.
- Temperature Range: −40°C to +85°C. Derating of rated voltage at more than 85°C. (rated voltage x 50%).
- Capacitance Tolerance: ±5%
- Dissipation Factor: 0.1% max. at 1kHz and 20°C.
- Withstand Voltage: 1-5 seconds at 250% of rated voltage between terminals
- Insulation Resistance: 45,000 MΩ min., for values equal to or less than .33µF. 15,000 MΩ/µF min., for greater than.33µF (20°C, 100VDC, 60s).



WV DC	Cap. µF	Toler-ance	Dimensions (mm)						Digi-Key Part No.	Pricing						Panasonic Part No.
			L	T	H	F	G	d		1	10	100	1,000	5,000	10,000	
400 WV	.0082	5%	19.5	6.0	16.0	10.0	1.0	0.60	P3475-ND	.49	4.20	35.00	209.00	194.00/M	182.00/M	ECQ-P4822JU
	.01	5%	19.5	6.5	16.5	10.0	1.0	0.60	P3476-ND	.51	4.35	36.25	216.00	201.00/M	188.00/M	ECQ-P4103JU
	.012	5%	19.5	6.5	18.5	10.0	1.0	0.60	P3477-ND	.53	4.50	37.50	224.00	208.00/M	195.00/M	ECQ-P4123JU
	.015	5%	19.5	6.0	18.5	10.0	1.0	0.60	P3478-ND	.55	4.71	39.25	234.00	218.00/M	204.00/M	ECQ-P4153JU
	.018	5%	19.5	6.0	19.0	10.0	1.0	0.60	P3479-ND	.57	4.86	40.50	242.00	225.00/M	210.00/M	ECQ-P4183JU
	.022	5%	19.5	6.0	19.4	10.0	1.0	0.60	P3480-ND	.59	5.04	42.00	251.00	233.00/M	218.00/M	ECQ-P4223JU
	.027	5%	19.5	6.5	20.0	10.0	1.0	0.60	P3481-ND	.60	5.16	43.00	257.00	239.00/M	223.00/M	ECQ-P4273JU
	.033	5%	19.5	7.0	21.8	15.0	1.0	0.60	P3482-ND	.62	5.34	44.50	266.00	247.00/M	231.00/M	ECQ-P4333JU
	.039	5%	19.5	7.5	22.8	15.0	1.0	0.60	P3483-ND	.64	5.46	45.50	272.00	253.00/M	236.00/M	ECQ-P4393JU
	.047	5%	19.5	8.0	23.4	15.0	1.0	0.60	P3484-ND	.70	6.03	50.25	300.00	279.00/M	261.00/M	ECQ-P4473JU
	.056	5%	24.5	7.0	22.0	15.0	1.5	0.80	P3485-ND	.76	6.54	54.50	325.00	303.00/M	283.00/M	ECQ-P4563JU
	.068	5%	24.5	7.5	23.0	15.0	1.5	0.80	P3486-ND	.82	7.02	58.50	349.00	325.00/M	304.00/M	ECQ-P4683JU
	.082	5%	24.5	8.5	23.8	15.0	1.5	0.80	P3487-ND	.88	7.53	62.75	375.00	349.00/M	326.00/M	ECQ-P4823JU
	.1	5%	24.5	9.0	26.6	20.0	1.5	0.80	P3488-ND	.94	8.07	67.25	401.00	374.00/M	349.00/M	ECQ-P4104JU
	.12	5%	24.5	10.0	27.4	20.0	1.5	0.80	P3489-ND	1.05	9.03	75.25	449.00	418.00/M	391.00/M	ECQ-P4124JU
	.15	5%	24.5	11.0	28.6	20.0	1.5	0.80	P3490-ND	1.18	10.08	84.00	501.00	467.00/M	436.00/M	ECQ-P4154JU
	.18	5%	29.5	10.5	26.0	20.0	1.5	0.80	P3491-ND	1.30	11.10	92.50	552.00	514.00/M	481.00/M	ECQ-P4184JU
	.22	5%	29.5	11.5	27.0	20.0	1.5	0.80	P3492-ND	1.38	11.82	98.50	588.00	547.00/M	512.00/M	ECQ-P4224JU
	.27	5%	29.5	13.0	28.4	20.0	1.5	0.80	P3493-ND	1.65	14.13	117.75	703.00	654.00/M	612.00/M	ECQ-P4274JU
	.33	5%	29.5	15.0	29.8	20.0	1.5	0.80	P3494-ND	1.78	15.24	127.00	758.00	706.00/M	660.00/M	ECQ-P4334JU
	.39	5%	35.0	15.0	30.0	20.0	1.5	0.80	P3495-ND	1.90	16.32	136.00	812.00	756.00/M	706.00/M	ECQ-P4394JU
	.47	5%	35.0	16.5	31.4	20.0	1.5	0.80	P3496-ND	2.03	17.40	145.00	866.00	806.00/M	753.00/M	ECQ-P4474JU
630 WV	.001	5%	14.5	5.0	15.5	10.00	1.0	0.60	P3497-ND	.42	3.60	30.00	179.00	167.00/M	156.00/M	ECQ-P6102JU
	.0012	5%	14.5	5.5	15.5	10.00	1.0	0.60	P3498-ND	.43	3.66	30.50	182.00	169.00/M	158.00/M	ECQ-P6122JU
	.0015	5%	14.5	5.5	15.5	10.00	1.0	0.60	P3499-ND	.43	3.72	31.00	185.00	172.00/M	161.00/M	ECQ-P6152JU
	.0018	5%	14.5	5.5	15.5	10.00	1.0	0.60	P3500-ND	.44	3.78	31.50	188.00	175.00/M	164.00/M	ECQ-P6182JU
	.0022	5%	14.5	5.5	15.5	10.00	1.0	0.60	P3501-ND	.45	3.84	32.00	191.00	178.00/M	166.00/M	ECQ-P6222JU
	.0027	5%	14.5	5.5	16.0	10.00	1.0	0.60	P3502-ND	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECQ-P6272JU
	.0033	5%	14.5	6.0	16.5	10.00	1.0	0.60	P3503-ND	.47	4.02	33.50	200.00	186.00/M	174.00/M	ECQ-P6332JU
	.0039	5%	14.5	6.0	18.5	10.00	1.0	0.60	P3504-ND	.49	4.20	35.00	209.00	194.00/M	182.00/M	ECQ-P6392JU
	.0047	5%	14.5	6.5	18.5	10.00	1.0	0.60	P3505-ND	.51	4.35	36.25	216.00	201.00/M	188.00/M	ECQ-P6472JU
	.0056	5%	14.5	7.0	19.0	10.00	1.0	0.60	P3506-ND	.54	4.59	38.25	228.00	212.00/M	199.00/M	ECQ-P6562JU
	.0068	5%	19.5	5.5	18.6	10.00	1.0	0.60	P3507-ND	.55	4.71	39.25	234.00	218.00/M	204.00/M	ECQ-P6682JU
	.0082	5%	19.5	6.0	19.0	10.00	1.0	0.60	P3508-ND	.57	4.86	40.50	242.00	225.00/M	210.00/M	ECQ-P6822JU
	.01	5%	19.5	6.0	19.4	10.00	1.0	0.60	P3509-ND	.58	4.98	41.50	248.00	231.00/M	216.00/M	ECQ-P6103JU
	.012	5%	19.5	6.5	19.8	10.00	1.0	0.60	P3510-ND	.60	5.16	43.00	257.00	239.00/M	223.00/M	ECQ-P6123JU
	.015	5%	19.5	7.0	20.4	15.00	1.0	0.60	P3511-ND	.62	5.34	44.50	266.00	247.00/M	231.00/M	ECQ-P6153JU
	.018	5%	19.5	7.0	22.6	15.00	1.0	0.60	P3512-ND	.64	5.46	45.50	272.00	253.00/M	236.00/M	ECQ-P6183JU
	.022	5%	19.5	8.0	23.4	15.00	1.0	0.60	P3513-ND	.65	5.58	46.50	278.00	258.00/M	242.00/M	ECQ-P6223JU
	.027	5%	19.5	8.5	24.2	15.00	1.0	0.60	P3514-ND	.70	6.00	50.00	299.00	278.00/M	260.00/M	ECQ-P6273JU
	.033	5%	24.5	8.0	23.2	15.00	1.5	0.80	P3515-ND	.72	6.15	51.25	306.00	285.00/M	266.00/M	ECQ-P6333JU
	.039	5%	24.5	8.5	23.8	15.00	1.5	0.80	P3516-ND	.80	6.87	57.25	342.00	318.00/M	297.00/M	ECQ-P6393JU
	.047	5%	24.5	9.0	24.6	15.00	1.5	0.80	P3517-ND	.90	7.71	64.25	384.00	357.00/M	334.00/M	ECQ-P6473JU
	.056	5%	24.5	10.0	27.4	20.00	1.5	0.80	P3518-ND	.91	7.83	65.25	390.00	362.00/M	339.00/M	ECQ-P6563JU
	.068	5%	24.5	11.0	28.4	20.00	1.5	0.80	P3519-ND	1.01	8.67	72.25	431.00	401.00/M	375.00/M	ECQ-P6683JU
	.082	5%	29.5	10.5	25.6	25.00	1.5	0.80	P3520-ND	1.09	9.33	77.75	464.00	432.00/M	404.00/M	ECQ-P6823JU
	.1	5%	29.5	11.5	26.8	25.00	1.5	0.80	P3521-ND	1.18	10.14	84.50	504.00	469.00/M	439.00/M	ECQ-P6104JU

Panasonic Metallized Polypropylene Film Capacitors - ECWF(B)



Designed for applications where high current and high frequency are required.

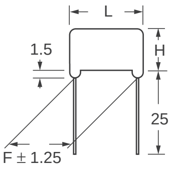
Features:
- Low-loss
- Excellent frequency characteristics
- Flame retardant epoxy resin coating

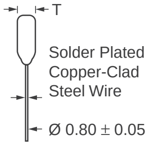
Applications:
- High frequency and high current circuits (TV, display, monitor, power supply, etc.)

Electrical Specifications:
- Temperature Range: −25°C to +85°C
- Rated Voltage: 250VDC (150Vrms, 250Vp-p)
  400VDC (200Vrms, 400Vp-p)
- Capacitance Tolerance: ±5%
- Dissipation Factor:
  .068 to .51µF: 0.05%max.(20°C, 1kHz) 250VDC
  .56 to 4.7µF: 0.1%max. (20°C, 1kHz) 250VDC
  .068 to 4.7µF: 0.2%max. (20°C, 10kHz) 250VDC
  .068 to 1.5µF: 0.1%max. (20°C, 1kHz) 400VDC
- Withstand Voltage: Between terminals.- Rated vol. (VDC) x 150% for 60s
- Insulation Resistance:
  9,000 MΩ min., for values 0.068 to .33µF
  3,000 MΩ/µF min., for 0.36 to 4.7µF (20°C, 100VDC, 60s)

WV DC	Cap. µF	Toler-ance	Freq-uency	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Panasonic Part No.
250 WV	.068	5%	2.3	18.0	6.0	13.0	15.0	PF2683-ND	1.77	15.15	126.25	756.00	712.00/M	ECW-F2683JB
	.082	5%	2.7	18.0	6.5	13.5	15.0	PF2823-ND	1.84	15.75	131.25	786.00	740.00/M	ECW-F2823JB
	.1	5%	3.1	18.0	7.0	14.0	15.0	PF2104-ND	1.87	16.05	133.75	801.00	755.00/M	ECW-F2104JB
	.12	5%	3.5	18.0	7.5	14.5	15.0	PF2124-ND	1.94	16.65	138.75	831.00	783.00/M	ECW-F2124JB
	.15	5%	3.9	18.0	8.5	15.0	15.0	PF2154-ND	2.06	17.64	147.00	880.00	829.00/M	ECW-F2154JB
	.18	5%	3.3	18.0	6.5	13.5	15.0	PF2184-ND	2.10	17.97	149.75	897.00	845.00/M	ECW-F2184JB
	.22	5%	3.8	18.0	7.0	14.0	15.0	PF2224-ND	2.13	18.24	152.00	910.00	858.00/M	ECW-F2224JB
	.27	5%	4.1	18.0	8.0	14.5	15.0	PF2274-ND	2.15	18.39	153.25	918.00	865.00/M	ECW-F2274JB
	.33	5%	4.4	18.0	8.5	15.0	15.0	PF2334-ND	2.17	18.60	155.00	928.00	874.00/M	ECW-F2334JB
	.39	5%	4.7	18.0	9.0	16.0	15.0	PF2394-ND	2.36	20.19	168.25	1007.00	949.00/M	ECW-F2394JB
	.47	5%	4.5	23.0	8.0	15.0	20.0	PF2474-ND	2.55	21.87	182.25	1091.00	1028.00/M	ECW-F2474JB
	.56	5%	4.8	23.0	8.5	15.5	20.0	PF2564-ND	2.68	22.98	191.50	1147.00	1080.00/M	ECW-F2564JB
	.68	5%	5.1	23.0	9.5	16.5	20.0	PF2684-ND	2.79	23.91	199.25	1193.00	1124.00/M	ECW-F2684JB
	.82	5%	5.4	23.0	10.5	17.0	20.0	PF2824-ND	2.89	24.81	206.75	1238.00	1166.00/M	ECW-F2824JB
	1.0	5%	5.7	23.0	11.5	18.0	20.0	PF2105-ND	2.94	25.17	209.75	1256.00	1183.00/M	ECW-F2105JB
	1.2	5%	6.0	23.0	12.5	19.5	20.0	PF2125-ND	3.06	26.25	218.75	1310.00	1234.00/M	ECW-F2125JB
	1.5	5%	6.4	23.0	14.0	21.0	20.0	PF2155-ND	3.40	29.16	243.00	1455.00	1371.00/M	ECW-F2155JB
	1.8	5%	6.7	28.0	12.5	21.0	25.0	PF2185-ND	3.83	32.85	273.75	1639.00	1544.00/M	ECW-F2185JB
	2.2	5%	7.1	28.0	14.0	22.5	25.0	PF2225-ND	4.60	39.39	328.25	1966.00	1852.00/M	ECW-F2225JB
	2.7	5%	7.3	28.0	15.5	24.0	25.0	PF2275-ND	5.11	43.77	364.75	2184.00	2058.00/M	ECW-F2275JB
	3.3	5%	7.9	28.0	17.0	26.0	25.0	PF2335-ND	5.52	47.28	394.00	2359.00	2223.00/M	ECW-F2335JB
	3.9	5%	8.1	33.0	16.5	25.5	30.0	PF2395-ND	5.86	50.22	418.50	2506.00	2361.00/M	ECW-F2395JB
	4.7	5%	8.5	33.0	18.0	27.0	30.0	PF2475-ND	6.33	54.27	452.25	2708.00	2551.00/M	ECW-F2475JB
400 WV	.068	5%	2.3	18.0	6.5	13.0	15.0	PF4683-ND	1.80	15.45	121.03	772.50	721.00/M	ECW-F4683JB
	.082	5%	2.7	18.0	7.0	13.5	15.0	PF4823-ND	1.83	15.72	123.14	786.00	733.60/M	ECW-F4823JB
	.1	5%	3.1	18.0	7.5	14.0	15.0	PF4104-ND	1.87	15.99	125.26	799.50	746.20/M	ECW-F4104JB
	.12	5%	3.5	18.0	8.0	15.0	15.0	PF4124-ND	1.92	16.47	129.02	823.50	768.60/M	ECW-F4124JB
	.15	5%	3.9	18.0	8.5	15.5	15.0	PF4154-ND	2.00	17.13	134.19	856.50	799.40/M	ECW-F4154JB
	.18	5%	4.2	18.0	9.5	16.5	15.0	PF4184-ND	2.02	17.28	135.36	864.00	806.40/M	ECW-F4184JB
	.22	5%	4.4	20.0	9.5	16.5	17.0	PF4224-ND	2.05	17.61	137.95	880.50	821.80/M	ECW-F4224JB
	.27	5%	4.7	20.0	10.5	17.0	17.0	PF4274-ND	2.14	18.36	143.82	918.00	856.80/M	ECW-F4274JB
	.33	5%	5.0	20.0	11.5	18.0	17.0	PF4334-ND	2.37	20.28	158.86	1014.00	946.40/M	ECW-F4334JB
	.39	5%	5.3	23.0	13.5	20.5	20.0	PF4394-ND	2.57	21.99	172.26	1099.50	1026.20/M	ECW-F4394JB
	.47	5%	5.9	23.0	14.5	21.5	20.0	PF4474-ND	2.78	23.82	186.59	1191.00	1111.60/M	ECW-F4474JB
	.56	5%	6.1	23.0	13.0	20.0	20.0	PF4564-ND	2.92	25.02	195.99	1251.00	1167.60/M	ECW-F4564JB
	.68	5%	6.5	23.0	14.5	21.5	20.0	PF4684-ND	3.03	26.01	203.75	1300.50	1213.80/M	ECW-F4684JB
	.82	5%	6.8	28.0	14.0	20.5	25.0	PF4824-ND	3.15	27.00	211.50	1350.00	1260.00/M	ECW-F4824JB
	1.0	5%	7.0	28.0	15.0	22.0	25.0	PF4105-ND	3.20	27.42	214.79	1371.00	1279.60/M	ECW-F4105JB
	1.2	5%	7.4	28.0	16.5	23.5	25.0	PF4125-ND	3.34	28.62	224.19	1431.00	1335.60/M	ECW-F4125JB
	1.5	5%	7.8	28.0	18.5	25.5	25.0	PF4155-ND	3.71	31.77	248.87	1588.50	1482.60/M	ECW-F4155JB

Panasonic High Voltage Metallized Polypropylene Film Capacitors - ECWH(V)





Designed for applications where high frequency and high pulse are required.

Features:
- Low-loss and inherent temperature rise
- Excellent electrical characteristics
- Flame-retardant epoxy resin coating

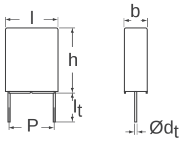
Recommended Applications:
- High pulse circuits (TV, displays, electronic ballast, etc.)

Electrical Specifications:
- Temperature Range: −25°C to +85°C
- Rated Voltage: 1250Vdc
  1600Vdc
- Capacitance Tolerance: ±5%
- Dissipation Factor: 0.1% or less at 1kHz
  0.2% or less at 10kHz
- Withstand Voltage:
  Between terminals - Rated vol. (VDC) x 150% for 60s
  Terminal to Enclosure - 1500Vac for 60s
- Insulation Resistance: 30,000 MΩ min., at 500Vdc, 20° for 60s

WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
1250 WV	.0010	5%	18.0	6.5	13.5	15.0	P10470-ND	.86	7.41	58.05	370.50	345.80/M	321.10/M	ECW-H12102JV
	.0012	5%	18.0	7.0	13.5	15.0	P10471-ND	.86	7.41	58.05	370.50	345.80/M	321.10/M	ECW-H12122JV
	.0015	5%	18.0	6.5	13.5	15.0	P10472-ND	.91	7.77	60.87	388.50	362.60/M	336.70/M	ECW-H12152JV
	.0018	5%	18.0	7.0	14.0	15.0	P10473-ND	.91	7.77	60.87	388.50	362.60/M	336.70/M	ECW-H12182JV
	.0022	5%	18.0	6.5	13.5	15.0	P10474-ND	.94	8.07	63.22	403.50	376.60/M	349.70/M	ECW-H12222JV
	.0027	5%	18.0	7.0	14.0	15.0	P10475-ND	.97	8.34	65.33	417.00	389.20/M	361.40/M	ECW-H12272JV
	.0033	5%	18.0	7.5	14.5	15.0	P10476-ND	1.00	8.58	67.21	429.00	400.40/M	371.80/M	ECW-H12332JV
	.0039	5%	18.0	6.0	12.5	15.0	P10477-ND	1.00	8.58	67.21	429.00	400.40/M	371.80/M	ECW-H12392JV
	.0047	5%	18.0	6.0	13.0	15.0	P10478-ND	1.00	8.58	67.21	429.00	400.40/M	371.80/M	ECW-H12472JV
	.0056	5%	18.0	6.5	13.5	15.0	P10479-ND	1.04	8.91	69.80	445.50	415.80/M	386.10/M	ECW-H12562JV
	.0068	5%	18.0	7.0	13.5	15.0	P10480-ND	1.16	9.90	77.55	495.00	462.00/M	429.00/M	ECW-H12682JV
	.0082	5%	18.0	7.5	14.0	15.0	P10481-ND	1.21	10.38	81.31	519.00	484.40/M	449.80/M	ECW-H12822JV
	.010	5%	18.0	8.0	15.0	15.0	P10482-ND	1.24	10.65	83.43	532.50	497.00/M	461.50/M	ECW-H12103JV
	.012	5%	18.0	8.5	15.5	15.0	P10483-ND	1.30	11.16	87.42	558.00	520.80/M	483.60/M	ECW-H12123JV
	.015	5%	18.0	9.5	16.0	15.0	P10484-ND	1.44	12.30	96.35	615.00	574.00/M	533.00/M	ECW-H12153JV
	.018	5%	23.0	7.5	16.0	20.0	P10485-ND	1.60	13.68	107.16	684.00	638.40/M	592.80/M	ECW-H12183JV
	.022	5%	23.0	8.5	16.5	20.0	P10486-ND	1.74	14.91	116.80	745.50	695.80/M	646.10/M	ECW-H12223JV
	.027	5%	23.0	9.0	17.5	20.0	P10487-ND	2.11	18.12	141.94	906.00	845.60/M	785.20/M	ECW-H12273JV
	.033	5%	23.0	10.0	18.5	20.0	P10488-ND	2.26	19.35	151.58	967.50	903.00/M	838.50/M	ECW-H12333JV
	.039	5%	23.0	10.5	19.5	20.0	P10489-ND	2.43	20.79	162.86	1039.50	970.20/M	900.90/M	ECW-H12393JV
	.047	5%	23.0	11.5	20.5	20.0	P10490-ND	2.73	23.37	183.07	1168.50	1090.60/M	1012.70/M	ECW-H12473JV
	.056	5%	28.0	11.5	20.5	25.0	P10491-ND	2.93	25.11	196.70	1255.50	1171.80/M	1088.10/M	ECW-H12563JV
	.068	5%	28.0	12.5	21.5	25.0	P10492-ND	3.34	28.65	224.43	1432.50	1337.00/M	1241.50/M	ECW-H12683JV
	.082	5%	28.0	14.0	22.5	25.0	P10493-ND	4.68	40.14	314.43	2007.00	1873.20/M	1739.40/M	ECW-H12823JV
	.10	5%	28.0	15.5	24.0	25.0	P10494-ND	5.58	47.79	374.36	2389.50	2230.20/M	2070.90/M	ECW-H12104JV
1600 WV	.0010	5%	18.0	6.5	13.5	15.0	P10495-ND	.99	8.49	66.51	424.50	396.20/M	367.90/M	ECW-H16102JV
	.0012	5%	18.0	7.0	13.5	15.0	P10496-ND	.99	8.49	66.51	424.50	396.20/M	367.90/M	ECW-H16122JV
	.0015	5%	18.0	6.5	13.5	15.0	P10497-ND	.99	8.49	66.51	424.50	396.20/M	367.90/M	ECW-H16152JV
	.0018	5%	18.0	7.0	14.0	15.0	P10498-ND	.99	8.49	66.51	424.50	396.20/M	367.90/M	ECW-H16182JV
	.0022	5%	18.0	6.0	12.5	15.0	P10499-ND	.99	8.49	66.51	424.50	396.20/M	367.90/M	ECW-H16222JV
	.0027	5%	18.0	6.0	13.0	15.0	P10500-ND	1.02	8.73	68.39	436.50	407.40/M	378.30/M	ECW-H16272JV
	.0033	5%	18.0	6.5	13.5	15.0	P10501-ND	1.09	9.33	73.09	466.50	435.40/M	404.30/M	ECW-H16332JV
	.0039	5%	18.0	7.0	14.0	15.0	P10502-ND	1.16	9.90	77.55	495.00	462.00/M	429.00/M	ECW-H16392JV
	.0047	5%	23.0	6.5	14.5	20.0	P10503-ND	1.20	10.32	80.84	516.00	481.60/M	447.20/M	ECW-H16472JV
	.0056	5%	23.0	6.5	15.0	20.0	P10504-ND	1.23	10.56	82.72	528.00	492.80/M	457.60/M	ECW-H16562JV
	.0068	5%	23.0	7.0	15.5	20.0	P10505-ND	1.27	10.86	85.07	543.00	506.80/M	470.60/M	ECW-H16682JV
	.0082	5%	23.0	7.5	16.0	20.0	P10506-ND	1.37	11.73	91.89	586.50	547.40/M	508.30/M	ECW-H16822JV
	.010	5%	23.0	8.0	16.5	20.0	P10507-ND	1.44	12.36	96.82	618.00	576.80/M	535.60/M	ECW-H16103JV
	.012	5%	23.0	9.0	17.0	20.0	P10508-ND	1.55	13.29	104.11	664.50	620.20/M	575.90/M	ECW-H16123JV
	.015	5%	23.0	9.5	18.0	20.0	P10509-ND	1.85	15.87	124.32	793.50	740.60/M	687.70/M	ECW-H16153JV
	.018	5%	23.0	10.5	19.5	20.0	P10510-ND	2.06	17.67	138.42	883.50	824.60/M	765.70/M	ECW-H16183JV
	.022	5%	28.0	9.5	18.0	25.0	P10511-ND	2.23	19.14	149.93	957.00	893.20/M	829.40/M	ECW-H16223JV
	.027	5%	28.0	10.5	19.5	25.0	P10512-ND	2.73	23.37	183.07	1168.50	1090.60/M	1012.70/M	ECW-H16273JV
	.033	5%	28.0	11.5	20.5	25.0	P10513-ND	2.91	24.93	195.29	1246.50	1163.40/M	1080.30/M	ECW-H16333JV
	.039	5%	28.0	13.5	22.0	25.0	P10514-ND	3.13	26.82	210.09	1341.00	1251.60/M	1162.20/M	ECW-H16393JV
	.047	5%	28.0	15.0	23.5	25.0	P10515-ND	3.55	30.39	238.06	1519.50	1418.20/M	1316.90/M	ECW-H16473JV
	.056	5%	28.0	16.0	24.5	25.0	P10516-ND	3.81	32.64	255.68	1632.00	1523.20/M	1414.40/M	ECW-H16563JV

Metallized Polypropylene Filter Capacitors

MKP 416 to 420 Series



Applications: • Low losses due to low contact resistance and low loss dielectric result in applications where high frequency occurs or high stability is preferred
• Their small dimensions make them suitable for circuits with high packaging density
Specifications: • **Rated Temperature (DC):** 85°C • **Capacitance Tolerance:** ±2%

Voltage (VDC)	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
MKP 416 Series												
63	.036	4.5	9.0	7.2	5.0	4.0	.50	BC2065-ND	.43	.37	.25	2222 416 43603
	.039	4.5	9.0	7.2	5.0	4.0	.50	BC2066-ND	.43	.37	.25	2222 416 43903
	.043	4.5	9.0	7.2	5.0	4.0	.50	BC2067-ND	.43	.37	.25	2222 416 44303
	.047	4.5	9.0	7.2	5.0	4.0	.50	BC2068-ND	.44	.38	.26	2222 416 44703
	.051	6.0	11.0	7.2	5.0	4.0	.50	BC2069-ND	.44	.38	.26	2222 416 45103
	.056	6.0	11.0	7.2	5.0	4.0	.50	BC2070-ND	.45	.39	.26	2222 416 45603
	.062	6.0	11.0	7.2	5.0	4.0	.50	BC2071-ND	.47	.41	.27	2222 416 46203
	.068	6.0	11.0	7.2	5.0	4.0	.50	BC2072-ND	.48	.42	.28	2222 416 46803
	.075	6.0	11.0	7.2	5.0	4.0	.50	BC2073-ND	.48	.42	.28	2222 416 47503
	.082	6.0	11.0	7.2	5.0	4.0	.50	BC2074-ND	.50	.43	.29	2222 416 48203
	.091	6.0	11.0	7.2	5.0	4.0	.50	BC2075-ND	.50	.43	.29	2222 416 49103
	.10	6.0	11.0	7.2	5.0	4.0	.50	BC2054-ND	.50	.43	.29	2222 416 41004
	.11	6.0	11.0	7.2	5.0	4.0	.50	BC2055-ND	.52	.45	.30	2222 416 41104
	.12	6.0	11.0	7.2	5.0	4.0	.50	BC2056-ND	.53	.46	.31	2222 416 41204
	.13	5.0	11.0	12.5	10.0	4.0	.60	BC2057-ND	.53	.46	.31	2222 416 41304
	.15	5.0	11.0	12.5	10.0	4.0	.60	BC2058-ND	.54	.47	.32	2222 416 41504
	.16	6.0	12.0	12.5	10.0	4.0	.60	BC2059-ND	.56	.48	.32	2222 416 41604
	.18	6.0	12.0	12.5	10.0	4.0	.60	BC2060-ND	.57	.49	.33	2222 416 41804
	.20	6.0	12.0	12.5	10.0	4.0	.60	BC2061-ND	.58	.50	.34	2222 416 42004
	.22	6.0	12.0	12.5	10.0	4.0	.60	BC2062-ND	.60	.52	.35	2222 416 42204
	.24	6.0	12.0	12.5	10.0	4.0	.60	BC2063-ND	.62	.54	.36	2222 416 42404
	.27	6.0	12.0	12.5	10.0	4.0	.60	BC2064-ND	.65	.56	.37	2222 416 42704
	.30	6.0	12.0	17.5	15.0	3.5	.80	BC2078-ND	.63	.55	.37	2222 416 73004
	.33	6.0	12.0	17.5	15.0	3.5	.80	BC2079-ND	.64	.56	.37	2222 416 73304
	.36	6.0	12.0	17.5	15.0	3.5	.80	BC2080-ND	.67	.58	.39	2222 416 73604
	.39	6.0	12.0	17.5	15.0	3.5	.80	BC2081-ND	.71	.61	.41	2222 416 73904
	.43	7.0	13.5	17.5	15.0	3.5	.80	BC2082-ND	.74	.64	.43	2222 416 74304
	.47	7.0	13.5	17.5	15.0	3.5	.80	BC2083-ND	.77	.66	.44	2222 416 74704
	.51	7.0	13.5	17.5	15.0	3.5	.80	BC2084-ND	.80	.69	.46	2222 416 75104
	.56	7.0	13.5	17.5	15.0	3.5	.80	BC2085-ND	.81	.70	.47	2222 416 75604
	.62	8.5	15.0	17.5	15.0	3.5	.80	BC2086-ND	.86	.74	.50	2222 416 76204
	.68	8.5	15.0	17.5	15.0	3.5	.80	BC2087-ND	.90	.78	.52	2222 416 76804
	.75	8.5	15.0	17.5	15.0	3.5	.80	BC2088-ND	.95	.82	.55	2222 416 77504
	.82	8.5	15.0	17.5	15.0	3.5	.80	BC2089-ND	1.03	.89	.59	2222 416 78204
	.91	10.0	16.5	17.5	15.0	3.5	.80	BC2090-ND	1.10	.95	.64	2222 416 79104
	1.0	10.0	16.5	17.5	15.0	3.5	.80	BC2076-ND	1.16	1.00	.67	2222 416 71005
	1.1	10.0	16.5	17.5	15.0	3.5	.80	BC2077-ND	1.26	1.08	.72	2222 416 71105
MKP 417 Series												
160	.024	4.5	9.0	7.2	5.0	4.0	.50	BC2100-ND	.45	.39	.26	2222 417 42403
	.027	4.5	9.0	7.2	5.0	4.0	.50	BC2102-ND	.45	.39	.26	2222 417 42703
	.03	4.5	9.0	7.2	5.0	4.0	.50	BC2103-ND	.47	.41	.27	2222 417 43003
	.033	4.5	9.0	7.2	5.0	4.0	.50	BC2104-ND	.47	.41	.27	2222 417 43303
	.036	6.0	11.0	7.2	5.0	4.0	.50	BC2105-ND	.47	.41	.27	2222 417 43603
	.039	6.0	11.0	7.2	5.0	4.0	.50	BC2106-ND	.47	.41	.27	2222 417 43903
	.043	6.0	11.0	7.2	5.0	4.0	.50	BC2107-ND	.47	.41	.27	2222 417 44303
	.047	6.0	11.0	7.2	5.0	4.0	.50	BC2108-ND	.48	.42	.28	2222 417 44703
	.051	6.0	11.0	7.2	5.0	4.0	.50	BC2109-ND	.50	.43	.29	2222 417 45103
	.056	6.0	11.0	7.2	5.0	4.0	.50	BC2110-ND	.50	.44	.29	2222 417 45603
	.062	6.0	11.0	7.2	5.0	4.0	.50	BC2111-ND	.52	.45	.30	2222 417 46203
	.068	6.0	11.0	7.2	5.0	4.0	.50	BC2112-ND	.53	.46	.31	2222 417 46803
	.075	4.0	10.0	12.5	10.0	4.0	.60	BC2113-ND	.53	.46	.31	2222 417 47503
	.082	4.0	10.0	12.5	10.0	4.0	.60	BC2114-ND	.53	.46	.31	2222 417 48203
	.091	4.0	10.0	12.5	10.0	4.0	.60	BC2115-ND	.54	.47	.32	2222 417 49103
	.10	4.0	10.0	12.5	10.0	4.0	.60	BC2091-ND	.54	.47	.32	2222 417 41004
	.11	5.0	11.0	12.5	10.0	4.0	.60	BC2092-ND	.57	.49	.33	2222 417 41104
	.12	5.0	11.0	12.5	10.0	4.0	.60	BC2093-ND	.58	.50	.34	2222 417 41204
	.13	5.0	11.0	12.5	10.0	4.0	.60	BC2094-ND	.58	.50	.34	2222 417 41304
	.15	5.0	11.0	12.5	10.0	4.0	.60	BC2095-ND	.60	.52	.35	2222 417 41504
	.16	6.0	12.0	12.5	10.0	4.0	.60	BC2096-ND	.61	.53	.36	2222 417 41604
	.18	6.0	12.0	12.5	10.0	4.0	.60	BC2097-ND	.62	.54	.36	2222 417 41804
	.20	6.0	12.0	12.5	10.0	4.0	.60	BC2098-ND	.63	.55	.37	2222 417 42004
	.22	6.0	12.0	12.5	10.0	4.0	.60	BC2099-ND	.65	.56	.37	2222 417 42204
	.24	6.0	12.0	12.5	10.0	4.0	.60	BC2101-ND	.67	.58	.39	2222 417 42404
	.27	5.0	11.0	17.5	15.0	3.5	.80	BC2118-ND	.63	.55	.37	2222 417 72704
	.30	6.0	12.0	17.5	15.0	3.5	.80	BC2119-ND	.68	.59	.39	2222 417 73004
	.33	6.0	12.0	17.5	15.0	3.5	.80	BC2120-ND	.70	.60	.40	2222 417 73304
	.36	6.0	12.0	17.5	15.0	3.5	.80	BC2121-ND	.73	.63	.42	2222 417 73604
	.39	6.0	12.0	17.5	15.0	3.5	.80	BC2122-ND	.76	.66	.44	2222 417 73904
	.43	7.0	13.5	17.5	15.0	3.5	.80	BC2123-ND	.80	.69	.46	2222 417 74304
	.47	7.0	13.5	17.5	15.0	3.5	.80	BC2124-ND	.83	.71	.48	2222 417 74704
	.51	7.0	13.5	17.5	15.0	3.5	.80	BC2125-ND	.86	.74	.50	2222 417 75104
	.56	7.0	13.5	17.5	15.0	3.5	.80	BC2126-ND	.88	.76	.51	2222 417 75604
	.62	8.5	15.0	17.5	15.0	3.5	.80	BC2127-ND	.93	.80	.54	2222 417 76204
	.68	8.5	15.0	17.5	15.0	3.5	.80	BC2128-ND	.97	.84	.56	2222 417 76804
	.75	8.5	15.0	17.5	15.0	3.5	.80	BC2129-ND	1.03	.89	.59	2222 417 77504
	.82	8.5	15.0	17.5	15.0	3.5	.80	BC2130-ND	1.11	.96	.64	2222 417 78204
	.91	10.0	16.5	17.5	15.0	3.5	.80	BC2131-ND	1.19	1.03	.69	2222 417 79104
	1.0	10.0	16.5	17.5	15.0	3.5	.80	BC2116-ND	1.26	1.08	.72	2222 417 71005
	1.1	10.0	16.5	17.5	15.0	3.5	.80	BC2117-ND	1.36	1.17	.78	2222 417 71105
MKP 418 Series												
250	.01	3.5	8.0	7.2	5.0	4.0	.50	BC2132-ND	.38	.33	.22	2222 418 41003
	.011	3.5	8.0	7.2	5.0	4.0	.50	BC2134-ND	.39	.34	.23	2222 418 41103
	.012	3.5	8.0	7.2	5.0	4.0	.50	BC2136-ND	.39	.34	.23	2222 418 41203
	.013	3.5	8.0	7.2	5.0	4.0	.50	BC2138-ND	.67	.58	.39	2222 418 41303
	.015	3.5	8.0	7.2	5.0	4.0	.50	BC2140-ND	.41	.36	.24	2222 418 41503
	.016	4.5	9.0	7.2	5.0	4.0	.50	BC2141-ND	.43	.37	.25	2222 418 41603
	.018	4.5	9.0	7.2	5.0	4.0	.50	BC2142-ND	.44	.38	.26	2222 418 41803
	.02	4.5	9.0	7.2	5.0	4.0	.50	BC2143-ND	.45	.39	.26	2222 418 42003
	.022	4.5	9.0	7.2	5.0	4.0	.50	BC2144-ND	.47	.41	.27	2222 418 42203
	.024	4.5	9.0	7.2	5.0	4.0	.50	BC2145-ND	.48	.42	.28	2222 418 42403
	.027	6.0	11.0	7.2	5.0	4.0	.50	BC2146-ND	.50	.43	.29	2222 418 42703
	.03	6.0	11.0	7.2	5.0	4.0	.50	BC2147-ND	.50	.44	.29	2222 418 43003
	.033	6.0	11.0	7.2	5.0	4.0	.50	BC2148-ND	.50	.44	.29	2222 418 43303
	.036	6.0	11.0	7.2	5.0	4.0	.50	BC2149-ND	.52	.45	.30	2222 418 43603
	.039	6.0	11.0	7.2	5.0	4.0	.50	BC2150-ND	.52	.45	.30	2222 418 43903
	.043	6.0	11.0	7.2	5.0	4.0	.50	BC2151-ND	.53	.46	.31	2222 418 44303
	.047	4.0	10.0	12.5	10.0	4.0	.60	BC2152-ND	.54	.47	.32	2222 418 44703
	.051	4.0	10.0	12.5	10.0	4.0	.60	BC2153-ND	.56	.48	.32	2222 418 45103
	.056	4.0	10.0	12.5	10.0	4.0	.60	BC2154-ND	.56	.48	.32	2222 418 45603
	.062	4.0	10.0	12.5	10.0	4.0	.60	BC2155-ND	.57	.49	.33	2222 418 46203
	.068	4.0	10.0	12.5	10.0	4.0	.60	BC2156-ND	.58	.50	.34	2222 418 46803
	.075	5.0	11.0	12.5	10.0	4.0	.60	BC2157-ND	.58	.50	.34	2222 418 47503
	.082	5.0	11.0	12.5	10.0	4.0	.60	BC2158-ND	.60	.52	.35	2222 418 48203
	.091	5.0	11.0	12.5	10.0	4.0	.60	BC2159-ND	.61	.53	.36	2222 418 49103
	.10	6.0	12.0	12.5	10.0	4.0	.60	BC2133-ND	.62	.54	.36	2222 418 41004
	.11	6.0	12.0	12.5	10.0	4.0	.60	BC2135-ND	.63	.55	.37	2222 418 41104
	.12	6.0	12.0	12.5	10.0	4.0	.60	BC2137-ND	.65	.56	.37	2222 418 41204
	.13	6.0	12.0	12.5	10.0	4.0	.60	BC2139-ND	.67	.58	.39	2222 418 41304
	.15	5.0	11.0	17.5	15.0	3.5	.80	BC2160-ND	.60	.52	.35	2222 418 71504
	.16	5.0	11.0	17.5	15.0	3.5	.80	BC2161-ND	.62	.53	.36	2222 418 71604
	.18	6.0	12.0	17.5	15.0	3.5	.80	BC2162-ND	.65	.56	.37	2222 418 71804
	.20	6.0	12.0	17.5	15.0	3.5	.80	BC2163-ND	.67	.58	.39	2222 418 72004
	.22	6.0	12.0	17.5	15.0	3.5	.80	BC2164-ND	.70	.60	.40	2222 418 72204
	.24	6.0	12.0	17.5	15.0	3.5	.80	BC2165-ND	.72	.62	.42	2222 418 72404
	.27	7.0	13.5	17.5	15.0	3.5	.80	BC2166-ND	.75	.65	.43	2222 418 72704
	.30	7.0	13.5	17.5	15.0	3.5	.80	BC2167-ND	.77	.66	.44	2222 418 73004
	.33	7.0	13.5	17.5	15.0	3.5	.80	BC2168-ND	.80	.69	.46	2222 418 73304
	.36	7.0	13.5	17.5	15.0	3.5	.80	BC2169-ND	.84	.73	.49	2222 418 73604
	.39	8.5	15.0	17.5	15.0	3.5	.80	BC2170-ND	.89	.77	.52	2222 418 73904
	.43	8.5	15.0	17.5	15.0	3.5	.80	BC2171-ND	.95	.81	.55	2222 418 74304
	.47	8.5	15.0	17.5	15.0	3.5	.80	BC2172-ND	1.00	.86	.57	2222 418 74704
	.51	8.5	15.0	17.5	15.0	3.5	.80	BC2173-ND	1.06	.92	.61	2222 418 75104
	.56	10.0	16.5	17.5	15.0	3.5	.80	BC2174-ND	1.13	.97	.65	2222 418 75604
	.62	10.0	16.5	17.5	15.0	3.5	.80	BC2175-ND	1.19	1.03	.69	2222 418 76204
	.68	10.0	16.5	17.5	15.0	3.5	.80	BC2176-ND	1.26	1.08	.73	2222 418 76804
MKP 419 Series												
400	.001	3.5	8.0	7.2	5.0	4.0	.50	BC2177-ND	.30	.26	.18	2222 419 41002
	.0011	3.5	8.0	7.2	5.0	4.0	.50	BC2179-ND	.30	.26	.18	2222 419 41102
	.0012	3.5	8.0	7.2	5.0	4.0	.50	BC2181-ND	.30	.26	.18	2222 419 41202
	.0013	3.5	8.0	7.2	5.0	4.0	.50	BC2183-ND	.30	.26	.18	2222 419 41302
	.0015	3.5	8.0	7.2	5.0	4.0	.50	BC2185-ND	.34	.29	.20	2222 419 41502
	.0016	3.5	8.0	7.2	5.0	4.0	.50	BC2187-ND	.34	.29	.20	2222 419 41602
	.0018	3.5	8.0	7.2	5.0	4.0	.50	BC2189-ND	.34	.29	.20	2222 419 41802
	.002	3.5	8.0	7.2	5.0	4.0	.50	BC2191-ND	.34	.29	.20	2222 419 42002
	.0022	3.5	8.0	7.2	5.0	4.0	.50	BC2193-ND	.34	.29	.20	2222 419 42202
	.0024	3.5	8.0	7.2	5.0	4.0	.50	BC2195-ND	.34	.29	.20	2222 419 42402
	.0027	3.5	8.0	7.2	5.0	4.0	.50	BC2197-ND	.35	.30	.20	2222 419 42702
	.003	3.5	8.0	7.2	5.0	4.0	.50	BC2199-ND	.35	.30	.20	2222 419 43002
	.0033	3.5	8.0	7.2	5.0	4.0	.50	BC2201-ND	.35	.30	.20	2222 419 43302
	.0036	3.5	8.0	7.2	5.0	4.0	.50	BC2203-ND	.35	.30	.20	2222 419 43602
	.0039	3.5	8.0	7.2	5.0	4.0	.50	BC2205-ND	.35	.30	.20	2222 419 43902
	.0043	4.5	9.0	7.2	5.0	4.0	.50	BC2207-ND	.35	.30	.20	2222 419 44302
	.0047	4.5	9.0	7.2	5.0	4.0	.50	BC2209-ND	.35	.30	.20	2222 419 44702
	.0051	4.5	9.0	7.2	5.0	4.0	.50	BC2211-ND	.36	.32	.21	2222 419 45102
	.0056	4.5	9.0	7.2	5.0	4.0	.50	BC2213-ND	.36	.32	.21	2222 419 45602
	.0062	4.5	9.0	7.2	5.0	4.0	.50	BC2215-ND	.38	.33	.22	2222 419 46202
	.0068	4.5	9.0	7.2	5.0	4.0	.50	BC2217-ND	.38	.33	.22	2222 419 46802
	.0075	4.5	9.0	7.2	5.0	4.0	.50	BC2219-ND	.39	.34	.23	2222 419 47502
	.0082	4.5	9.0	7.2	5.0	4.0	.50	BC2220-ND	.40	.35	.23	2222 419 48202
	.0091	4.5	9.0	7.2	5.0	4.0	.50	BC2221-ND	.40	.35	.23	2222 419 49102
	.01	4.5	9.0	7.2	5.0	4.0	.50	BC2178-ND	.41	.36	.24	2222 419 41003
	.011	4.5	9.0	7.2	5.0	4.0	.50	BC2180-ND	.43	.37	.25	2222 419 41103
	.012	4.5	9.0	7.2	5.0	4.0	.50	BC2182-ND	.44	.38	.26	2222 419 41203
	.013	6.0	11.0	7.2	5.0	4.0	.50	BC2184-ND	.44	.38	.26	2222 419 41303
	.015	6.0	11.0	7.2	5.0	4.0	.50	BC2186-ND	.45	.39	.26	2222 419 41503
	.016	6.0	11.0	7.2	5.0	4.0	.50	BC2188-ND	.47	.41	.27	2222 419 41603
	.018	6.0	11.0	7.2	5.0	4.0	.50	BC2190-ND	.48	.42	.28	2222 419 41803
	.02	6.0	11.0	7.2	5.0	4.0	.50	BC2192-ND	.50	.43	.29	2222 419 42003
	.022	4.0	10.0	12.5	10.0	4.0	.60	BC2194-ND	.50	.44	.29	2222 419 42203
	.024	4.0	10.0	12.5	10.0	4.0	.60	BC2196-ND	.52	.45	.30	2222 419 42403
	.027	4.0	10.0	12.5	10.0	4.0	.60	BC2198-ND	.53	.46	.31	2222 419 42703
	.03	4.0	10.0	12.5	10.0	4.0	.60	BC2200-ND	.54	.47	.32	2222 419 43003
	.033	4.0	10.0	12.5	10.0	4.0	.60	BC2202-ND	.56	.48	.32	2222 419 43303

(Continued)

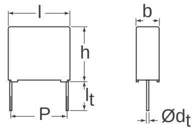
Metallized Polypropylene Filter Capacitors MKP 416 to 420 Series *(Cont.)*

Volt-age (VDC)	Capaci-tance (μF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
400	.036	5.0	11.0	12.5	10.0	4.0	.60	BC2204-ND	.57	.49	.33	2222 419 43603
	.039	5.0	11.0	12.5	10.0	4.0	.60	BC2206-ND	.58	.50	.34	2222 419 43903
	.043	5.0	11.0	12.5	10.0	4.0	.60	BC2208-ND	.60	.52	.35	2222 419 44303
	.047	6.0	12.0	12.5	10.0	4.0	.60	BC2210-ND	.60	.52	.35	2222 419 44703
	.051	6.0	12.0	12.5	10.0	4.0	.60	BC2212-ND	.61	.53	.36	2222 419 45103
	.056	6.0	12.0	12.5	10.0	4.0	.60	BC2214-ND	.62	.54	.36	2222 419 45603
	.062	6.0	12.0	12.5	10.0	4.0	.60	BC2216-ND	.63	.55	.37	2222 419 46203
	.068	6.0	12.0	12.5	10.0	4.0	.60	BC2218-ND	.65	.56	.37	2222 419 46803
	.075	5.0	11.0	17.5	15.0	3.5	.80	BC2236-ND	.63	.55	.37	2222 419 77503
	.082	5.0	11.0	17.5	15.0	3.5	.80	BC2237-ND	.63	.55	.37	2222 419 78203
	.091	6.0	12.0	17.5	15.0	3.5	.80	BC2238-ND	.64	.56	.37	2222 419 79103
	.10	6.0	12.0	17.5	15.0	3.5	.80	BC2222-ND	.65	.56	.38	2222 419 71004
	.11	6.0	12.0	17.5	15.0	3.5	.80	BC2223-ND	.66	.57	.38	2222 419 71104
	.12	6.0	12.0	17.5	15.0	3.5	.80	BC2224-ND	.66	.57	.38	2222 419 71204
	.13	6.0	12.0	17.5	15.0	3.5	.80	BC2225-ND	.69	.60	.40	2222 419 71304
	.15	7.0	13.5	17.5	15.0	3.5	.80	BC2226-ND	.72	.62	.42	2222 419 71504
	.16	7.0	13.5	17.5	15.0	3.5	.80	BC2227-ND	.75	.65	.43	2222 419 71604
	.18	7.0	13.5	17.5	15.0	3.5	.80	BC2228-ND	.78	.68	.45	2222 419 71804
	.20	8.5	15.0	17.5	15.0	3.5	.80	BC2229-ND	.82	.71	.47	2222 419 72004
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC2230-ND	.86	.75	.50	2222 419 72204
	.24	8.5	15.0	17.5	15.0	3.5	.80	BC2231-ND	.92	.80	.53	2222 419 72404
	.27	8.5	15.0	17.5	15.0	3.5	.80	BC2232-ND	.97	.84	.56	2222 419 72704
	.30	10.0	16.5	17.5	15.0	3.5	.80	BC2233-ND	1.04	.90	.60	2222 419 73004
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC2234-ND	1.10	.95	.63	2222 419 73304
	.36	10.0	16.5	17.5	15.0	3.5	.80	BC2235-ND	1.15	.99	.66	2222 419 73604
MKP 420 Series												
630	.0015	3.5	8.0	7.2	5.0	4.0	.50	BC2243-ND	.36	.32	.21	2222 420 41502
	.0016	3.5	8.0	7.2	5.0	4.0	.50	BC2245-ND	.36	.32	.21	2222 420 41602
	.0018	3.5	8.0	7.2	5.0	4.0	.50	BC2247-ND	.36	.32	.21	2222 420 41802
	.002	3.5	8.0	7.2	5.0	4.0	.50	BC2249-ND	.36	.32	.21	2222 420 42002
	.0022	3.5	8.0	7.2	5.0	4.0	.50	BC2251-ND	.36	.32	.21	2222 420 42202
	.0024	3.5	8.0	7.2	5.0	4.0	.50	BC2253-ND	.36	.32	.21	2222 420 42402
	.0027	3.5	8.0	7.2	5.0	4.0	.50	BC2255-ND	.38	.33	.22	2222 420 42702
	.003	4.5	9.0	7.2	5.0	4.0	.50	BC2257-ND	.38	.33	.22	2222 420 43002
	.0033	4.5	9.0	7.2	5.0	4.0	.50	BC2259-ND	.38	.33	.22	2222 420 43302
	.0036	4.5	9.0	7.2	5.0	4.0	.50	BC2261-ND	.38	.33	.22	2222 420 43602
	.0039	4.5	9.0	7.2	5.0	4.0	.50	BC2263-ND	.38	.33	.22	2222 420 43902
	.0043	6.0	11.0	7.2	5.0	4.0	.50	BC2265-ND	.38	.33	.22	2222 420 44302

Volt-age (VDC)	Capaci-tance (μF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
630	.0047	6.0	11.0	7.2	5.0	4.0	.50	BC2267-ND	.38	.33	.22	2222 420 44702
	.0051	6.0	11.0	7.2	5.0	4.0	.50	BC2269-ND	.39	.34	.23	2222 420 45102
	.0056	6.0	11.0	7.2	5.0	4.0	.50	BC2270-ND	.39	.34	.23	2222 420 45602
	.0062	6.0	11.0	7.2	5.0	4.0	.50	BC2271-ND	.40	.35	.23	2222 420 46202
	.0068	6.0	11.0	7.2	5.0	4.0	.50	BC2272-ND	.40	.35	.23	2222 420 46802
	.0075	6.0	11.0	7.2	5.0	4.0	.50	BC2273-ND	.41	.36	.24	2222 420 47502
	.0082	6.0	11.0	7.2	5.0	4.0	.50	BC2274-ND	.44	.38	.26	2222 420 48202
	.0091	6.0	11.0	7.2	5.0	4.0	.50	BC2275-ND	.44	.38	.26	2222 420 49102
	.01	4.0	10.0	12.5	10.0	4.0	.60	BC2239-ND	.47	.41	.27	2222 420 41003
	.011	4.0	10.0	12.5	10.0	4.0	.60	BC2240-ND	.48	.42	.28	2222 420 41103
	.012	4.0	10.0	12.5	10.0	4.0	.60	BC2241-ND	.50	.43	.29	2222 420 41203
	.013	4.0	10.0	12.5	10.0	4.0	.60	BC2242-ND	.50	.44	.29	2222 420 41303
	.015	4.0	10.0	12.5	10.0	4.0	.60	BC2244-ND	.52	.45	.30	2222 420 41503
	.016	4.0	10.0	12.5	10.0	4.0	.60	BC2246-ND	.52	.45	.30	2222 420 41603
	.018	5.0	11.0	12.5	10.0	4.0	.60	BC2248-ND	.53	.46	.31	2222 420 41803
	.02	5.0	11.0	12.5	10.0	4.0	.60	BC2250-ND	.54	.47	.32	2222 420 42003
	.022	5.0	11.0	12.5	10.0	4.0	.60	BC2252-ND	.56	.48	.32	2222 420 42203
	.024	5.0	11.0	12.5	10.0	4.0	.60	BC2254-ND	.57	.49	.33	2222 420 42403
	.027	6.0	12.0	12.5	10.0	4.0	.60	BC2256-ND	.58	.50	.34	2222 420 42703
	.03	6.0	12.0	12.5	10.0	4.0	.60	BC2258-ND	.60	.52	.35	2222 420 43003
	.033	6.0	12.0	12.5	10.0	4.0	.60	BC2260-ND	.61	.53	.36	2222 420 43303
	.036	6.0	12.0	12.5	10.0	4.0	.60	BC2262-ND	.62	.54	.36	2222 420 43603
	.039	6.0	12.0	12.5	10.0	4.0	.60	BC2264-ND	.63	.55	.37	2222 420 43903
	.043	6.0	12.0	12.5	10.0	4.0	.60	BC2266-ND	.65	.56	.37	2222 420 44303
	.047	6.0	12.0	12.5	10.0	4.0	.60	BC2268-ND	.65	.56	.37	2222 420 44703
	.051	6.0	12.0	17.5	15.0	3.5	.80	BC2282-ND	.63	.55	.37	2222 420 75103
	.056	6.0	12.0	17.5	15.0	3.5	.80	BC2283-ND	.65	.56	.37	2222 420 75603
	.062	7.0	13.5	17.5	15.0	3.5	.80	BC2284-ND	.66	.57	.38	2222 420 76203
	.068	7.0	13.5	17.5	15.0	3.5	.80	BC2285-ND	.66	.57	.38	2222 420 76803
	.075	7.0	13.5	17.5	15.0	3.5	.80	BC2286-ND	.68	.59	.40	2222 420 77503
	.082	7.0	13.5	17.5	15.0	3.5	.80	BC2287-ND	.70	.61	.41	2222 420 78203
	.091	8.5	15.0	17.5	15.0	3.5	.80	BC2288-ND	.72	.62	.42	2222 420 79103
	.10	8.5	15.0	17.5	15.0	3.5	.80	BC2276-ND	.75	.65	.43	2222 420 71004
	.11	8.5	15.0	17.5	15.0	3.5	.80	BC2277-ND	.79	.68	.46	2222 420 71104
	.12	8.5	15.0	17.5	15.0	3.5	.80	BC2278-ND	.84	.72	.48	2222 420 71204
	.13	10.0	16.5	17.5	15.0	3.5	.80	BC2279-ND	.88	.76	.51	2222 420 71304
	.15	10.0	16.5	17.5	15.0	3.5	.80	BC2280-ND	.93	.80	.54	2222 420 71504
	.16	10.0	16.5	17.5	15.0	3.5	.80	BC2281-ND	.97	.84	.56	2222 420 71604

AC and Pulse Double Metallized Polypropylene Film Capacitors

MMKP 383 Series



Features: • Low contact resistance • Low loss dielectric • Small dimensions for high density packaging **Applications:** • Electronic lighting e.g. Ballast • Motor control circuits • S-Correction • Where steep pulses occur e.g. SMPS (switch mode power supplies) • For flyback applications please use 1400V series • For hot asphalt encapsulation process
Specifications: • **Rated Temperature (DC):** 85°C • **Rated Temperature (AC):** 105°C • **Maximum Application Temperature:** 105°C • **Capacitance Tolerance:** ±5%

Volt-age	Capaci-tance (μF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
250DC/ 125AC	.082	5.0	11.0	17.5	15.0	3.5	.80	BC1845-ND	.41	.36	.24	2222 383 00823
	.091	5.0	11.0	17.5	15.0	3.5	.80	BC1847-ND	.46	.40	.27	2222 383 00913
	.10	5.0	11.0	17.5	15.0	3.5	.80	BC1812-ND	.44	.38	.26	2222 383 00104
	.11	6.0	12.0	17.5	15.0	3.5	.80	BC1814-ND	.49	.42	.28	2222 383 00114
	.12	6.0	12.0	17.5	15.0	3.5	.80	BC1816-ND	.47	.40	.27	2222 383 00124
	.13	6.0	12.0	17.5	15.0	3.5	.80	BC1818-ND	.52	.45	.30	2222 383 00134
	.15	6.0	12.0	17.5	15.0	3.5	.80	BC1820-ND	.49	.43	.29	2222 383 00154
	.16	7.0	13.5	17.5	15.0	3.5	.80	BC1822-ND	.57	.49	.33	2222 383 00164
	.18	7.0	13.5	17.5	15.0	3.5	.80	BC1824-ND	.54	.47	.31	2222 383 00184
	.20	7.0	13.5	17.5	15.0	3.5	.80	BC1826-ND	.61	.53	.36	2222 383 00204
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC1828-ND	.59	.51	.34	2222 383 00224
	.24	8.5	15.0	17.5	15.0	3.5	.80	BC1830-ND	.66	.57	.38	2222 383 00244
	.27	8.5	15.0	17.5	15.0	3.5	.80	BC1832-ND	.63	.54	.36	2222 383 00274
	.30	8.5	15.0	17.5	15.0	3.5	.80	BC1834-ND	.74	.64	.43	2222 383 00304
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC1835-ND	.71	.61	.41	2222 383 00334
	.36	10.0	16.5	17.5	15.0	3.5	.80	BC1836-ND	.79	.68	.46	2222 383 00364
	.39	10.0	16.5	17.5	15.0	3.5	.80	BC1837-ND	.76	.65	.44	2222 383 00394
	.43	7.0	16.5	26.0	22.5	3.5	.80	BC1838-ND	.90	.77	.52	2222 383 00434
	.47	8.5	18.0	26.0	22.5	3.5	.80	BC1839-ND	.86	.74	.49	2222 383 00474
	.51	8.5	18.0	26.0	22.5	3.5	.80	BC1840-ND	.97	.84	.56	2222 383 00514
	.56	8.5	18.0	26.0	22.5	3.5	.80	BC1841-ND	.92	.80	.53	2222 383 00564
	.62	8.5	18.0	26.0	22.5	3.5	.80	BC1842-ND	1.07	.92	.61	2222 383 00624
	.68	10.0	19.5	26.0	22.5	3.5	.80	BC1843-ND	1.02	.88	.59	2222 383 00684
	.75	10.0	19.5	26.0	22.5	3.5	.80	BC1844-ND	1.17	1.01	.67	2222 383 00754
	.82	10.0	19.5	26.0	22.5	3.5	.80	BC1846-ND	1.11	.96	.64	2222 383 00824
	.91	11.0	21.0	31.0	27.5	3.5	.80	BC1848-ND	1.56	1.34	.90	2222 383 00914
	1.0	11.0	21.0	31.0	27.5	3.5	.80	BC1813-ND	1.49	1.28	.85	2222 383 00105
	1.1	11.0	21.0	31.0	27.5	3.5	.80	BC1815-ND	1.68	1.44	.96	2222 383 00115
	1.2	11.0	21.0	31.0	27.5	3.5	.80	BC1817-ND	1.59	1.37	.92	2222 383 00125
	1.3	13.0	23.0	31.0	27.5	3.5	.80	BC1819-ND	1.93	1.66	1.11	2222 383 00135
	1.5	13.0	23.0	31.0	27.5	3.5	.80	BC1821-ND	1.84	1.58	1.06	2222 383 00155
	1.6	13.0	23.0	31.0	27.5	3.5	.80	BC1823-ND	2.23	1.92	1.28	2222 383 00165
	1.8	15.0	25.0	31.0	27.5	3.5	.80	BC1825-ND	2.13	1.83	1.22	2222 383 00185
	2.0	15.0	25.0	31.0	27.5	3.5	.80	BC1827-ND	2.63	2.26	1.51	2222 383 00205
	2.2	18.0	28.0	31.0	27.5	3.5	.80	BC1829-ND	2.50	2.15	1.43	2222 383 00225
	2.4	18.0	28.0	31.0	27.5	3.5	.80	BC1831-ND	2.96	2.54	1.70	2222 383 00245
	2.7	18.0	28.0	31.0	27.5	3.5	.80	BC1833-ND	2.82	2.42	1.62	2222 383 00275

Volt-age	Capaci-tance (μF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
630DC/ 220AC	.03	5.0	11.0	17.5	15.0	3.5	.80	BC1861-ND	.42	.37	.25	2222 383 20303
	.033	5.0	11.0	17.5	15.0	3.5	.80	BC1863-ND	.41	.35	.24	2222 383 20333
	.036	5.0	11.0	17.5	15.0	3.5	.80	BC1865-ND	.45	.39	.26	2222 383 20363
	.039	6.0	12.0	17.5	15.0	3.5	.80	BC1867-ND	.43	.37	.25	2222 383 20393
	.043	6.0	12.0	17.5	15.0	3.5	.80	BC1869-ND	.47	.40	.27	2222 383 20433
	.047	6.0	12.0	17.5	15.0	3.5	.80	BC1871-ND	.44	.38	.26	2222 383 20473
	.051	6.0	12.0	17.5	15.0	3.5	.80	BC1873-ND	.48	.42	.28	2222 383 20513
	.056	6.0	12.0	17.5	15.0	3.5	.80	BC1875-ND	.46	.40	.27	2222 383 20563
	.062	7.0	13.5	17.5	15.0	3.5	.80	BC1877-ND	.52	.45	.30	2222 383 20623
	.068	7.0	13.5	17.5	15.0	3.5	.80	BC1879-ND	.50	.43	.29	2222 383 20683
	.075	7.0	13.5	17.5	15.0	3.5	.80	BC1881-ND	.56	.48	.32	2222 383 20753
	.082	8.5	15.0	17.5	15.0	3.5	.80	BC1883-ND	.54	.46	.31	2222 383 20823
	.091	8.5	15.0	17.5	15.0	3.5	.80	BC1885-ND	.60	.51	.34	2222 383 20913
	.10	8.5	15.0	17.5	15.0	3.5	.80	BC1849-ND	.56	.48	.32	2222 383 20104
	.11	8.5	15.0	17.5	15.0	3.5	.80	BC1851-ND	.66	.57	.38	2222 383 20114
	.12	10.0	16.5	17.5	15.0	3.5	.80	BC1852-ND	.63	.54	.36	2222 383 20124
	.13	10.0	16.5	17.5	15.0	3.5	.80	BC1853-ND	.70	.60	.40	2222 383 20134
	.15	10.0	16.5	17.5	15.0	3.5	.80	BC1854-ND	.66	.57	.38	2222 383 20154
	.16	8.5	18.0	26.0	22.5	3.5	.80	BC1855-ND	.81	.70	.47	2222 383 20164
	.18	8.5	18.0	26.0	22.5	3.5	.80	BC1856-ND	.76	.66	.44	2222 383 20184
	.20	8.5	18.0	26.0	22.5	3.5	.80	BC1857-ND	.86	.74	.50	2222 383 20204
	.22	8.5	18.0	26.0	22.5	3.5	.80	BC1858-ND	.82	.71	.47	2222 383 20224
	.24	10.0	19.5	26.0	22.5	3.5	.80	BC1859-ND	.93	.80	.54	2222 383 20244
	.27	10.0	19.5	26.0	22.5	3.5	.80	BC1860-ND	.89	.77	.51	2222 383 20274
	.30	10.0	19.5	26.0	22.5	3.5	.80	BC1862-ND	1.29	1.11	.74	2222 383 20304
	.33	11.0	21.0	31.0	27.5	3.5	.80	BC1864-ND	1.22	1.05	.70	2222 383 20334
	.36	11.0	21.0	31.0	27.5	3.5	.80	BC1866-ND	1.36	1.17	.78	2222 383 20364
	.39	11.0	21.0	31.0	27.5	3.5	.80	BC1868-ND	1.30	1.12	.75	2222 383 20394
	.43	11.0	21.0	31.0	27.5	3.5	.80	BC1870-ND	1.52	1.31	.88	2222 383 20434
	.47	13.0	23.0	31.0	27.5	3.5	.80	BC1872-ND	1.45	1.25	.83	2222 383 20474
	.51	13.0	23.0	31.0	27.5	3.5	.80	BC1874-ND	1.64	1.41	.94	2222 383 20514
	.56	13.0	23.0	31.0	27.5	3.5	.80	BC1876-ND	1.57	1.35	.90	2222 383 20564
	.62	15.0	25.0	31.0	27.5	3.5	.80	BC1878-ND	1.84	1.59	1.06	2222 383 20624
	.68	15.0	25.0	31.0	27.5	3.5	.80	BC1880-ND	1.76	1.52	1.01	2222 383 20684
	.75	15.0	25.0	31.0	27.5	3.5	.80	BC1882-ND	2.20	1.89	1.26	2222 383 20754
	.82	18.0	28.0	31.0	27.5	3.5	.80	BC1884-ND	2.09	1.79	1.20	2222 383 20824

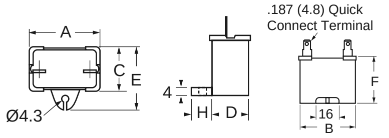
(Continued)

Volt-age	Capaci-tance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
630DC/ 220AC	.91	18.0	28.0	31.0	27.5	3.5	.80	BC1886-ND	2.45	2.10	1.40	2222 383 20914
	1.0	18.0	28.0	31.0	27.5	3.5	.80	BC1850-ND	2.33	2.01	1.34	2222 383 20105
1000DC/ 500AC	.012	5.0	11.0	17.5	15.0	3.5	.80	BC1889-ND	.50	.43	.29	2222 383 30123
	.013	5.0	11.0	17.5	15.0	3.5	.80	BC1891-ND	.54	.47	.31	2222 383 30133
	.015	5.0	11.0	17.5	15.0	3.5	.80	BC1893-ND	.52	.45	.30	2222 383 30153
	.016	5.0	11.0	17.5	15.0	3.5	.80	BC1895-ND	.57	.49	.33	2222 383 30163
	.018	6.0	12.0	17.5	15.0	3.5	.80	BC1897-ND	.54	.47	.31	2222 383 30183
	.02	6.0	12.0	17.5	15.0	3.5	.80	BC1899-ND	.60	.52	.35	2222 383 30203
	.022	6.0	12.0	17.5	15.0	3.5	.80	BC1901-ND	.58	.50	.33	2222 383 30223
	.024	6.0	12.0	17.5	15.0	3.5	.80	BC1903-ND	.65	.56	.37	2222 383 30243
	.027	7.0	13.5	17.5	15.0	3.5	.80	BC1905-ND	.61	.53	.36	2222 383 30273
	.03	7.0	13.5	17.5	15.0	3.5	.80	BC1907-ND	.70	.60	.40	2222 383 30303
	.033	7.0	13.5	17.5	15.0	3.5	.80	BC1909-ND	.66	.57	.38	2222 383 30333
	.036	8.5	15.0	17.5	15.0	3.5	.80	BC1911-ND	.73	.63	.42	2222 383 30363
	.039	8.5	15.0	17.5	15.0	3.5	.80	BC1913-ND	.70	.60	.40	2222 383 30393
	.043	8.5	15.0	17.5	15.0	3.5	.80	BC1915-ND	.79	.68	.45	2222 383 30433
	.047	8.5	15.0	17.5	15.0	3.5	.80	BC1917-ND	.75	.65	.43	2222 383 30473
	.051	10.0	16.5	17.5	15.0	3.5	.80	BC1919-ND	.84	.72	.48	2222 383 30513
	.056	10.0	16.5	17.5	15.0	3.5	.80	BC1920-ND	.79	.68	.46	2222 383 30563
	.062	10.0	16.5	17.5	15.0	3.5	.80	BC1921-ND	.92	.80	.53	2222 383 30623
	.068	7.0	16.5	26.0	22.5	3.5	.80	BC1922-ND	.88	.76	.51	2222 383 30683
	.075	8.5	18.0	26.0	22.5	3.5	.80	BC1923-ND	1.02	.88	.59	2222 383 30753
	.082	8.5	18.0	26.0	22.5	3.5	.80	BC1924-ND	.97	.84	.56	2222 383 30823
	.091	8.5	18.0	26.0	22.5	3.5	.80	BC1925-ND	1.15	.99	.66	2222 383 30913
	.10	10.0	19.5	26.0	22.5	3.5	.80	BC1887-ND	1.09	.94	.63	2222 383 30104
	.11	10.0	19.5	26.0	22.5	3.5	.80	BC1888-ND	1.38	1.19	.79	2222 383 30114
	.12	10.0	19.5	26.0	22.5	3.5	.80	BC1890-ND	1.31	1.13	.75	2222 383 30124
	.13	10.0	19.5	26.0	22.5	3.5	.80	BC1892-ND	1.55	1.33	.89	2222 383 30134
	.15	11.0	21.0	31.0	27.5	3.5	.80	BC1894-ND	1.48	1.28	.85	2222 383 30154
	.16	11.0	21.0	31.0	27.5	3.5	.80	BC1896-ND	1.72	1.48	.99	2222 383 30164
	.18	11.0	21.0	31.0	27.5	3.5	.80	BC1898-ND	1.66	1.42	.95	2222 383 30184
	.20	13.0	23.0	31.0	27.5	3.5	.80	BC1900-ND	1.89	1.63	1.09	2222 383 30204
	.22	13.0	23.0	31.0	27.5	3.5	.80	BC1902-ND	1.82	1.57	1.05	2222 383 30224
	.24	13.0	23.0	31.0	27.5	3.5	.80	BC1904-ND	2.11	1.82	1.21	2222 383 30244
	.27	15.0	25.0	31.0	27.5	3.5	.80	BC1906-ND	2.02	1.73	1.16	2222 383 30274
	.30	15.0	25.0	31.0	27.5	3.5	.80	BC1908-ND	2.40	2.06	1.38	2222 383 30304
	.33	15.0	25.0	31.0	27.5	3.5	.80	BC1910-ND	2.29	1.97	1.31	2222 383 30334
	.36	18.0	28.0	31.0	27.5	3.5	.80	BC1912-ND	2.60	2.24	1.49	2222 383 30364
	.39	18.0	28.0	31.0	27.5	3.5	.80	BC1914-ND	2.48	2.13	1.42	2222 383 30394
	.43	18.0	28.0	31.0	27.5	3.5	.80	BC1916-ND	2.89	2.48	1.66	2222 383 30434
	.47	18.0	28.0	31.0	27.5	3.5	.80	BC1918-ND	2.75	2.36	1.57	2222 383 30474
1400DC/ 500AC	.0022	5.0	11.0	17.5	15.0	3.5	.80	BC1938-ND	.36	.31	.21	2222 383 40222
	.0024	5.0	11.0	17.5	15.0	3.5	.80	BC1940-ND	.40	.34	.23	2222 383 40242
	.0027	5.0	11.0	17.5	15.0	3.5	.80	BC1942-ND	.38	.33	.22	2222 383 40272
	.003	5.0	11.0	17.5	15.0	3.5	.80	BC1944-ND	.41	.36	.24	2222 383 40302
	.0033	5.0	11.0	17.5	15.0	3.5	.80	BC1946-ND	.39	.34	.23	2222 383 40332
	.0036	5.0	11.0	17.5	15.0	3.5	.80	BC1948-ND	.42	.37	.25	2222 383 40362
	.0039	5.0	11.0	17.5	15.0	3.5	.80	BC1950-ND	.41	.35	.24	2222 383 40392
	.0043	6.0	12.0	17.5	15.0	3.5	.80	BC1952-ND	.44	.38	.26	2222 383 40432
	.0047	6.0	12.0	17.5	15.0	3.5	.80	BC1954-ND	.42	.36	.24	2222 383 40472
	.0051	6.0	12.0	17.5	15.0	3.5	.80	BC1956-ND	.47	.40	.27	2222 383 40512
	.0056	6.0	12.0	17.5	15.0	3.5	.80	BC1958-ND	.44	.39	.26	2222 383 40562
	.0062	7.0	13.5	17.5	15.0	3.5	.80	BC1960-ND	.49	.43	.29	2222 383 40622
	.0068	7.0	13.5	17.5	15.0	3.5	.80	BC1962-ND	.47	.41	.27	2222 383 40682
	.0075	7.0	13.5	17.5	15.0	3.5	.80	BC1964-ND	.52	.45	.30	2222 383 40752
	.0082	7.0	13.5	17.5	15.0	3.5	.80	BC1966-ND	.49	.43	.29	2222 383 40822
	.0091	8.5	15.0	17.5	15.0	3.5	.80	BC1968-ND	.55	.48	.32	2222 383 40912
	.01	8.5	15.0	17.5	15.0	3.5	.80	BC1926-ND	.52	.45	.30	2222 383 40103
	.011	8.5	15.0	17.5	15.0	3.5	.80	BC1928-ND	.60	.51	.34	2222 383 40113
	.012	8.5	15.0	17.5	15.0	3.5	.80	BC1930-ND	.57	.49	.33	2222 383 40123
	.013	10.0	16.5	17.5	15.0	3.5	.80	BC1932-ND	.65	.56	.37	2222 383 40133
	.015	10.0	16.5	17.5	15.0	3.5	.80	BC1934-ND	.61	.53	.36	2222 383 40153
	.016	10.0	16.5	17.5	15.0	3.5	.80	BC1935-ND	.71	.61	.41	2222 383 40163
	.018	7.0	16.5	26.0	22.5	3.5	.80	BC1936-ND	.68	.59	.39	2222 383 40183
	.02	7.0	16.5	26.0	22.5	3.5	.80	BC1937-ND	.77	.66	.44	2222 383 40203
	.022	8.5	18.0	26.0	22.5	3.5	.80	BC1939-ND	.73	.63	.42	2222 383 40223
	.024	8.5	18.0	26.0	22.5	3.5	.80	BC1941-ND	.84	.72	.48	2222 383 40243
	.027	8.5	18.0	26.0	22.5	3.5	.80	BC1943-ND	.79	.68	.46	2222 383 40273
	.03	10.0	19.5	26.0	22.5	3.5	.80	BC1945-ND	.93	.80	.54	2222 383 40303
	.033	10.0	19.5	26.0	22.5	3.5	.80	BC1947-ND	.88	.76	.51	2222 383 40333
	.036	10.0	19.5	26.0	22.5	3.5	.80	BC1949-ND	1.03	.89	.60	2222 383 40363
	.039	10.0	19.5	26.0	22.5	3.5	.80	BC1951-ND	.98	.85	.57	2222 383 40393
	.043	11.0	21.0	31.0	27.5	3.5	.80	BC1953-ND	1.23	1.06	.71	2222 383 40433
	.047	11.0	21.0	31.0	27.5	3.5	.80	BC1955-ND	1.17	1.01	.67	2222 383 40473
	.051	11.0	21.0	31.0	27.5	3.5	.80	BC1957-ND	1.38	1.19	.79	2222 383 40513
	.056	11.0	21.0	31.0	27.5	3.5	.80	BC1959-ND	1.31	1.13	.75	2222 383 40563
	.062	13.0	23.0	31.0	27.5	3.5	.80	BC1961-ND	1.53	1.32	.88	2222 383 40623
	.068	13.0	23.0	31.0	27.5	3.5	.80	BC1963-ND	1.46	1.25	.84	2222 383 40683
	.075	13.0	23.0	31.0	27.5	3.5	.80	BC1965-ND	1.73	1.49	1.00	2222 383 40753
	.082	15.0	25.0	31.0	27.5	3.5	.80	BC1967-ND	1.66	1.42	.95	2222 383 40823
	.091	15.0	25.0	31.0	27.5	3.5	.80	BC1969-ND	1.92	1.65	1.10	2222 383 40913
	.10	15.0	25.0	31.0	27.5	3.5	.80	BC1927-ND	1.82	1.57	1.05	2222 383 40104
	.11	18.0	28.0	31.0	27.5	3.5	.80	BC1929-ND	2.14	1.84	1.23	2222 383 40114
	.12	18.0	28.0	31.0	27.5	3.5	.80	BC1931-ND	2.04	1.75	1.17	2222 383 40124
	.13	18.0	28.0	31.0	27.5	3.5	.80	BC1933-ND	2.16	1.86	1.24	2222 383 40134
1600DC/ 500AC	.0033	5.0	11.0	17.5	15.0	3.5	.80	BC1987-ND	.42	.36	.24	2222 383 50332
	.0036	5.0	11.0	17.5	15.0	3.5	.80	BC1989-ND	.45	.39	.26	2222 383 50362
	.0039	5.0	11.0	17.5	15.0	3.5	.80	BC1991-ND	.43	.37	.25	2222 383 50392
	.0043	6.0	12.0	17.5	15.0	3.5	.80	BC1993-ND	.47	.41	.27	2222 383 50432
	.0047	6.0	12.0	17.5	15.0	3.5	.80	BC1995-ND	.45	.39	.26	2222 383 50472
	.0051	6.0	12.0	17.5	15.0	3.5	.80	BC1997-ND	.49	.43	.29	2222 383 50512
	.0056	6.0	12.0	17.5	15.0	3.5	.80	BC1999-ND	.47	.41	.27	2222 383 50562
	.0062	7.0	13.5	17.5	15.0	3.5	.80	BC2001-ND	.52	.45	.30	2222 383 50622
	.0068	7.0	13.5	17.5	15.0	3.5	.80	BC2003-ND	.49	.43	.29	2222 383 50682
	.0075	7.0	13.5	17.5	15.0	3.5	.80	BC2005-ND	.55	.48	.32	2222 383 50752
	.0082	8.5	15.0	17.5	15.0	3.5	.80	BC2007-ND	.52	.45	.30	2222 383 50822
	.0091	8.5	15.0	17.5	15.0	3.5	.80	BC2009-ND	.58	.50	.33	2222 383 50912
	.01	8.5	15.0	17.5	15.0	3.5	.80	BC1970-ND	.55	.48	.32	2222 383 50103
	.011	8.5	15.0	17.5	15.0	3.5	.80	BC1972-ND	.63	.54	.36	2222 383 50113
	.012	10.0	16.5	17.5	15.0	3.5	.80	BC1974-ND	.60	.51	.34	2222 383 50123
	.013	10.0	16.5	17.5	15.0	3.5	.80	BC1976-ND	.68	.59	.39	2222 383 50133
	.015	10.0	16.5	17.5	15.0	3.5	.80	BC1978-ND	.65	.56	.37	2222 383 50153
	.016	7.0	16.5	26.0	22.5	3.5	.80	BC1980-ND	.76	.65	.44	2222 383 50163
	.018	7.0	16.5	26.0	22.5	3.5	.80	BC1981-ND	.71	.62	.41	2222 383 50183
	.02	7.0	16.5	26.0	22.5	3.5	.80	BC1982-ND	.81	.70	.47	2222 383 50203
	.022	8.5	18.0	26.0	22.5	3.5	.80	BC1983-ND	.77	.66	.44	2222 383 50223
	.024	8.5	18.0	26.0	22.5	3.5	.80	BC1984-ND	.88	.76	.51	2222 383 50243
	.027	8.5	18.0	26.0	22.5	3.5	.80	BC1985-ND	.84	.72	.48	2222 383 50273
	.03	8.5	18.0	26.0	22.5	3.5	.80	BC1986-ND	.98	.84	.56	2222 383 50303
	.033	10.0	19.5	26.0	22.5	3.5	.80	BC1988-ND	.93	.80	.54	2222 383 50333
	.036	10.0	19.5	26.0	22.5	3.5	.80	BC1990-ND	1.09	.94	.63	2222 383 50363
	.039	10.0	19.5	26.0	22.5	3.5	.80	BC1992-ND	1.04	.89	.60	2222 383 50393
	.043	11.0	21.0	31.0	27.5	3.5	.80	BC1994-ND	1.41	1.21	.81	2222 383 50433
	.047	11.0	21.0	31.0	27.5	3.5	.80	BC1996-ND	1.34	1.15	.77	2222 383 50473
	.051	11.0	21.0	31.0	27.5	3.5	.80	BC1998-ND	1.51	1.30	.87	2222 383 50513
	.056	11.0	21.0	31.0	27.5	3.5	.80	BC2000-ND	1.43	1.23	.82	2222 383 50563
	.062	13.0	23.0	31.0	27.5	3.5	.80	BC2002-ND	1.68	1.44	.96	2222 383 50623
	.068	13.0	23.0	31.0	27.5	3.5	.80	BC2004-ND	1.60	1.38	.92	2222 383 50683
	.075	13.0	23.0	31.0	27.5	3.5	.80	BC2006-ND	1.95	1.67	1.12	2222 383 50753
	.082	15.0	25.0	31.0	27.5	3.5	.80	BC2008-ND	1.84	1.59	1.06	2222 383 50823
	.091	15.0	25.0	31.0	27.5	3.5	.80	BC2010-ND	2.07	1.78	1.19	2222 383 50913
	.10	15.0	25.0	31.0	27.5	3.5	.80	BC1971-ND	1.97	1.69	1.13	2222 383 50104
	.11	18.0	28.0	31.0	27.5	3.5	.80	BC1973-ND	2.41	2.07	1.38	2222 383 50114
	.12	18.0	28.0	31.0	27.5	3.5	.80	BC1975-ND	2.31	1.98	1.32	2222 383 50124
	.13	18.0	28.0	31.0	27.5	3.5	.80	BC1977-ND	2.70	2.32	1.55	2222 383 50134
	.15	18.0	28.0	31.0	27.5	3.5	.80	BC1979-ND	2.58	2.21	1.48	2222 383 50154
2500DC/ 900AC	.001	6.0	15.5	26.0	22.5	3.5	.80	BC2011-ND	.63	.54	.36	2222 383 70102
	.0011	6.0	15.5	26.0	22.5	3.5	.80	BC2013-ND	.66	.57	.38	2222 383 70112
	.0012	6.0	15.5	26.0	22.5	3.5	.80	BC2015-ND	.63	.55	.37	2222 383 70122
	.0013	6.0	15.5	26.0	22.5	3.5	.80	BC2017-ND	.66	.57	.38	2222 383 70132
	.0015	6.0	15.5	26.0	22.5	3.5	.80	BC2019-ND	.63	.55	.37	2222 383 70152
	.0016	6.0	15.5	26.0	22.5	3.5	.80	BC2021-ND	.67	.58	.39	2222 383 70162
	.0018	6.0	15.5	26.0	22.5	3.5	.80	BC2023-ND	.64	.55	.37	2222 383 70182
	.002	6.0	15.5	26.0	22.5	3.5	.80	BC2025-ND	.67	.58	.39	2222 383 70202
	.0022	6.0	15.5	26.0	22.5	3.5	.80	BC2027-ND	.64	.55	.37	2222 383 70222
	.0024	6.0	15.5	26.0	22.5	3.5	.80	BC2029-ND	.68	.59	.39	2222 383 70242
	.0027	6.0	15.5	26.0	22.5	3.5	.80	BC2031-ND	.64	.55	.37	2222 383 70272
	.003	6.0	15.5	26.0	22.5	3.5	.80	BC2033-ND	.68	.59	.39	2222 383 70302
	.0033	6.0	15.5	26.0	22.5	3.5	.80	BC2035-ND	.65	.57	.38	2222 383 70332
	.0036	6.0	15.5	26.0	22.5	3.5	.80	BC2037-ND	.70	.60	.40	2222 383 70362
	.0039	6.0	15.5	26.0	22.5	3.5	.80	BC2039-ND	.66	.57	.38	2222 383 70392
	.0043	6.0	15.5	26.0	22.5	3.5	.80	BC2041-ND	.71	.62	.41	2222 383 70432
	.0047	6.0	15.5	26.0	22.5	3.5	.80	BC2043-ND	.68	.59	.39	2222 383 70472
	.0051	6.0	15.5	26.0	22.5	3.5	.80	BC2045-ND	.73	.63	.42	2222 383 70512
	.0056	6.0	15.5	26.0	22.5	3.5	.80	BC2047-ND	.69	.60	.40	2222 383 70562
	.0062	7.0	16.5	26.0	22.5	3.5	.80	BC2049-ND	.75	.65	.43	2222 383 70622
	.0068	7.0	16.5	26.0	22.5	3.5	.80	BC2050-ND	.71	.62	.41	2222 383 70682
	.0075	7.0	16.5	26.0	22.5	3.5	.80	BC2051-ND	.80	.69	.46	2222 383 70752
	.0082	8.5	18.0	26.0	22.5	3.5	.80	BC2052-ND	.76	.66	.44	2222 383 70822
	.0091	8.5	18.0	26.0	22.5	3.5	.80	BC2053-ND	.85	.73	.49	2222 383 70912
	.01	8.5	18.0	26.0	22.5	3.5	.80	BC2012-ND	.81	.70	.47	2222 383 70103
	.011	8.5	18.0	26.0	22.5	3.5	.80	BC2014-ND	.91	.78	.52	2222 383 70113
	.012	10.0	19.5	26.0	22.5	3.5	.80	BC2016-ND	.86	.74	.50	2222 383 70123
	.013	10.0	19.5	26.0	22.5	3.5	.80	BC2018-ND	1.00	.86	.58	2222 383 70133
	.015	10.0	19.5	26.0	22.5	3.5	.80	BC2020-ND	.95	.82	.55	2222 383 70153
	.016	9.0	19.0	31.0	27.5	3.5	.80	BC2022-ND	1.24	1.06	.71	2222 383 70163
	.018	11.0	21.0	31.0	27.5	3.5	.80	BC2024-ND	1.18	1.01	.68	2222 383 70183
	.02	11.0	21.0	31.0	27.5	3.5	.80	BC2026-ND	1.36	1.17	.78	2222 383 70203
	.022	11.0	21.0	31.0	27.5	3.5	.80	BC2028-ND	1.31	1.13	.75	2222 383 70223
	.024	11.0	21.0	31.0	27.5	3.5	.80	BC2030-ND	1.53	1.32	.88	2222 383 70243
	.027	13.0	23.0	31.0	27.5	3.5	.80	BC2032-ND	1.46	1.26	.84	2222 383 70273
	.03	13.0	23.0	31.0	27.5	3.5	.80	BC2034-ND	1.67	1.43	.96	2222 383 70303
	.033	13.0	23.0	31.0	27.5	3.5	.80	BC2036-ND	1.59	1.37	.91	2222 383 70333
	.036	15.0	25.0	31.0	27.5	3.5	.80	BC2038-ND	1.87	1.61	1.07	2222 383 70363
	.039	15.0	25.0	31.0	27.5	3.5	.80	BC2040-ND	1.78	1.53	1.02	2222 383 70393
	.043	15.0	25.0	31.0	27.5	3.5	.80	BC2042-ND	2.20	1.89	1.26	2222 383 70433
	.047	18.0	28.0	31.0	27.5	3.5	.80	BC2044-ND	2.09	1.79	1.20	2222 383 70473
	.051	18.0	28.0	31.0	27.5	3.5	.80	BC2046-ND	2.34	2.01	1.34	2222 383 70513
	.056	18.0	28.0	31.0	27.5	3.5	.80	BC2048-ND	2.23	1.92	1.28	2222 383 70563

Panasonic® Dry Film AC Capacitors

Stack Type

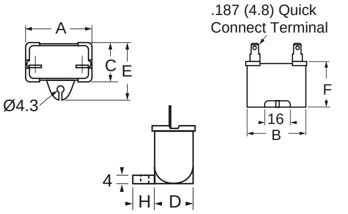
Panasonic's "stack type" construction offers significant reduction in case size (compared to oil-filled can type) with a built-in mounting foot. **Features:** • Compact size compared to oil-filled type capacitors. • 0.187 inch (4.75mm) terminals standard (0.250 inch [6.35mm] available). • 180, 200, 230 are standard voltages. • U.L. 810 (File # E76560) and C.S.A listed. (CSA-C22.2 No. 0-M91 File # LR99617) • JIS standard is available. (JIS C 4908). • Primary applications: refrigeration, motor run, lighting, etc. • Flame retardant plastic case is rated 94 V-0.



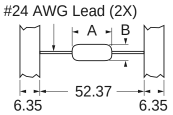
Voltage VAC	Cap. µF	Dimensions A	B	C	D	E	F	H	Digi-Key Part No	Pricing 1	10	100	500	Panasonic Part No.
Stack Type - SQ Case														
180	7.5	39.5	38.0	17.5	16.0	28.0	30.5	11.0	P9400-ND	3.38	27.00	229.50	1012.50	JSU18X755AQF
180	10	39.5	38.0	22.0	20.5	32.5	30.5	11.0	P9401-ND	4.03	32.20	273.70	1207.50	JSU18X106AQJ
180	12	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9402-ND	4.50	36.00	306.00	1350.00	JSU18X126AQH
180	15	39.5	38.0	26.7	25.2	37.0	32.0	11.0	P9403-ND	5.03	40.20	341.70	1507.50	JSU18X156AQP
180	20	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9404-ND	6.43	51.40	436.90	1927.50	JSU18X206AQD
210	10	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9405-ND	4.15	33.20	282.20	1245.00	JSU21X106AQB
210	12	39.5	38.0	26.7	25.2	37.0	32.0	11.0	P9406-ND	4.65	37.20	316.20	1395.00	JSU21X126AQE
210	15	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9407-ND	5.58	44.60	379.10	1672.50	JSU21X156AQH
230	10	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9408-ND	4.88	39.00	331.50	1462.50	JSU23X106AQC
230	12	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9409-ND	5.38	43.00	365.50	1612.50	JSU23X126AQE
230	15	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9410-ND	6.95	55.60	472.60	2085.00	JSU23X156AQE
Wound Type - Q Case														
250	10	49.7	48.3	24.0	22.5	34.5	34.5	11.5	P9411-ND	6.68	53.40	453.90	2002.50	SPU25X106AQSD
250	12	50.0	48.5	26.7	25.3	37.5	38.0	11.5	P9412-ND	7.60	60.80	516.80	2280.00	SPU25X126AQSA
250	15	50.0	48.5	30.5	28.8	41.0	36.0	11.5	P9413-ND	8.98	71.80	610.30	2692.50	SPU25X156AQSA

Wound Type

Panasonic's "wound type" construction brings dry film technology to higher voltage and microfarad applications, not available from our "stack type" construction. **Features:** • Replacement for typical oil-filled aluminum or plastic can capacitor. • Compact size —ideal where space is a premium. • Built-in mounting bracket eliminates need for mounting strap. • Meets U.L. 810 (File #E76560). • Primary applications: motor run, lighting, etc. • Terminals: 0.187 inch (4.75mm).



BC COMPONENTS Axial Ceramic Capacitors



Taped and Reeled per EIA RS-296E

Size Code	A	B
15	3.81mm Max	2.54mm Max
20	5.08mm Max	3.05mm Max

MECHANICAL PARAMETERS:

Terminal Strength: 2.2 Kg (5 lbs.) Minimum pull to destruction, per Method B5 of RS-198-CII, Test Condition A.

Lead Materials: #24 AWG (.020" ±0.001") Tinned, Copper Clad Steel. 30% Conductivity. Temper: Soft; Tensile Strength: 65000 PSI Max.

Body: Conformally coated Epoxy.

ELECTRICAL PARAMETERS:

Capacitance: Measured @ 1Mhz @ 1.0 ±0.2 VRMS @ 25°C for C0G types with C ≤1000pF. Measured @ Khz @ 1.0 ±0.2 VRMS @ 25°C for C0G types with C >1000pF. Measured @ 1Khz @ 1.0 VRMS ±.2 VRMS @ 25°C for X7R types. Measure @ 1Khz @ .5 VRMS ±.1 VRMS @ 25°C for Z5U types.

Dissipation Factor: .1% Maximum for C0G types, 2.5% Maximum for X7R types and 4.0% for Z5U types; measurement conditions are the same as for capacitance measurement.

Dielectric Strength: Parts are subjected for up to 5 seconds @ 25°C to 250% of Rated Voltage and will exhibit no evidence of breakdown.

Insulation Resistance: When measured @ 25°C and Rated Voltage, the following Minimum Values will be met: 100K MegΩ or 1000 MegΩ x µF (whichever is less) for C0G and X7R types, 10K MegΩ or 1000 MegΩ x µF (whichever is less) for Z5U types.

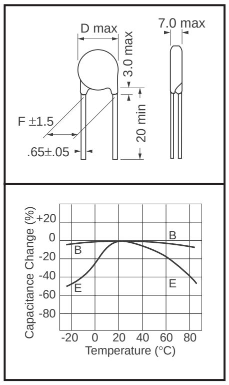
Body Insulation: 500VDC Minimum, in accordance with RS-198-CII.

Operating Temperature Range: -55°C to +125°C for C0G, -55°C to +125°C for X7R, -55°C to +85°C for Z5U

Packaging: Mono-Axial parts are supplied in tape and reel and form per EIA RS-296.

Type	Volt.	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Price	BC Components Part No.
COG	100V	10pf	±5	15	1011PHCT-ND	1.91	13.81	95.63	1011PHTR-ND	7,000	63.75/M	A100J15C0GH5TAA
		15pf	±5	15	1012PHCT-ND	1.91	13.81	95.63	1012PHTR-ND	5,000	63.75/M	A150J15C0GH5TAA
		18pf	±5	15	1013PHCT-ND	1.91	13.81	95.63	1013PHTR-ND	7,000	63.75/M	A180J15C0GH5TAA
		22pf	±5	15	1014PHCT-ND	1.91	13.81	95.63	1014PHTR-ND	7,000	63.75/M	A220J15C0GH5TAA
		27pf	±5	15	1015PHCT-ND	1.91	13.81	95.63	1015PHTR-ND	7,000	63.75/M	A270J15C0GH5TAA
		33pf	±5	15	1016PHCT-ND	1.91	13.81	95.63	1016PHTR-ND	7,000	63.75/M	A330J15C0GH5TAA
		47pf	±5	15	1017PHCT-ND	1.95	14.11	97.65	1017PHTR-ND	5,000	65.10/M	A470J15C0GH5TAA
		68pf	±5	15	1018PHCT-ND	1.99	14.37	99.45	1018PHTR-ND	7,000	66.30/M	A680J15C0GH5TAA
		82pf	±5	15	1019PHCT-ND	2.03	14.63	101.25	1019PHTR-ND	7,000	67.50/M	A820J15C0GH5TAA
	50V	100pf	±5	15	1001PHCT-ND	2.03	14.63	101.25	1001PHTR-ND	7,000	67.50/M	A101J15C0GF5TAA
		150pf	±5	15	1002PHCT-ND	2.14	15.47	107.10	1002PHTR-ND	7,000	71.40/M	A151J15C0GF5TAA
		180pf	±5	15	1003PHCT-ND	2.14	15.47	107.10	1003PHTR-ND	7,000	71.40/M	A181J15C0GF5TAA
		220pf	±5	15	1004PHCT-ND	2.14	15.47	107.10	1004PHTR-ND	7,000	71.40/M	A221J15C0GF5TAA
		330pf	±5	15	1005PHCT-ND	2.14	15.47	107.10	1005PHTR-ND	7,000	71.40/M	A331J15C0GF5TAA
		390pf	±5	15	1006PHCT-ND	2.14	15.47	107.10	1006PHTR-ND	5,000	71.40/M	A391J15C0GF5TAA
		470pf	±5	15	1007PHCT-ND	2.14	15.47	107.10	1007PHTR-ND	7,000	71.40/M	A471J15C0GF5TAA
		560pf	±5	15	1008PHCT-ND	2.14	15.47	107.10	1008PHTR-ND	7,000	71.40/M	A561J15C0GF5TAA
		680pf	±5	15	1009PHCT-ND	2.14	15.47	107.10	1009PHTR-ND	7,000	71.40/M	A681J15C0GF5TAA
		1000pf	±5	15	1010PHCT-ND	2.37	17.13	118.58	1010PHTR-ND	7,000	79.05/M	A102J15C0GF5TAA
X7R	100V	220pf	±10	15	1110PHCT-ND	1.84	13.26	91.80	1110PHTR-ND	7,000	61.20/M	A221K15X7RH5TAA
		270pf	±10	15	1111PHCT-ND	1.84	13.26	91.80	1111PHTR-ND	7,000	61.20/M	A271K15X7RH5TAA
		330pf	±10	15	1112PHCT-ND	1.84	13.26	91.80	1112PHTR-ND	7,000	61.20/M	A331K15X7RH5TAA
		470pf	±10	15	1113PHCT-ND	1.84	13.26	91.80	1113PHTR-ND	7,000	61.20/M	A471K15X7RH5TAA
		680pf	±10	15	1114PHCT-ND	1.84	13.26	91.80	1114PHTR-ND	7,000	61.20/M	A681K15X7RH5TAA
		820pf	±10	15	1115PHCT-ND	1.84	13.26	91.80	1115PHTR-ND	5,000	61.20/M	A821K15X7RH5TAA
		.001µf	±10	15	1116PHCT-ND	1.84	13.26	91.80	1116PHTR-ND	7,000	61.20/M	A102K15X7RH5TAA
		.0012µf	±10	15	1117PHCT-ND	1.84	13.26	91.80	1117PHTR-ND	5,000	61.20/M	A122K15X7RH5TAA
		.0015µf	±10	15	1118PHCT-ND	1.84	13.26	91.80	1118PHTR-ND	7,000	61.20/M	A152K15X7RH5TAA
		.0022µf	±10	15	1119PHCT-ND	1.84	13.26	91.80	1119PHTR-ND	7,000	61.20/M	A222K15X7RH5TAA
	50V	.0033µf	±10	15	1101PHCT-ND	1.87	13.52	93.60	1101PHTR-ND	7,000	62.40/M	A332K15X7RF5TAA
		.0047µf	±10	15	1102PHCT-ND	1.87	13.52	93.60	1102PHTR-ND	7,000	62.40/M	A472K15X7RF5TAA
		.01µf	±10	15	1103PHCT-ND	1.19	8.58	59.40	1103PHTR-ND	7,000	39.60/M	A103K15X7RF5TAA
		.015µf	±10	15	1104PHCT-ND	2.14	15.47	107.10	1104PHTR-ND	7,000	71.40/M	A153K15X7RF5TAA
		.022µf	±10	15	1105PHCT-ND	2.37	17.13	118.58	1105PHTR-ND	7,000	79.05/M	A223K15X7RF5TAA
		.033µf	±10	15	1106PHCT-ND	2.57	18.53	128.25	1106PHTR-ND	7,000	85.50/M	A333K15X7RF5TAA
		.047µf	±10	15	1107PHCT-ND	2.64	19.08	132.08	1107PHTR-ND	7,000	88.05/M	A473K15X7RF5TAA
		.056µf	±10	15	1108PHCT-ND	2.87	20.74	143.55	1108PHTR-ND	7,000	95.70/M	A563K15X7RF5TAA
		.1µf	±10	15	1109PHCT-ND	3.44	24.86	172.13	1109PHTR-ND	7,000	114.75/M	A104K15X7RF5TAA
Z5U	50V	.01µf	±20	15	1206PHCT-ND	1.15	8.29	57.38	1206PHTR-ND	5,000	38.25/M	A103M15Z5UF5TAA
		.01µf	+80, -20	15	1201PHCT-ND	1.15	8.29	57.38	1201PHTR-ND	7,000	38.25/M	A103Z15Z5UF5TAA
		.022µf	±20	15	1207PHCT-ND	1.38	9.95	68.85	1207PHTR-ND	5,000	45.90/M	A223M15Z5UF5TAA
		.033µf	±20	15	1208PHCT-ND	1.38	9.95	68.85	1208PHTR-ND	7,000	45.90/M	A333M15Z5UF5TAA
		.047µf	±20	15	1209PHCT-ND	1.45	10.50	72.68	1209PHTR-ND	7,000	48.45/M	A473M15Z5UF5TAA
		.047µf	+80, -20	15	1202PHCT-ND	1.38	9.95	68.85	1202PHTR-ND	7,000	45.90/M	A473Z15Z5UF5TAA
		.1µf	±20	15	1210PHCT-ND	1.15	8.29	57.38	1210PHTR-ND	7,000	38.25/M	A104M15Z5UF5TAA
		.1µf	+80, -20	15	1203PHCT-ND	1.15	8.29	57.38	1203PHTR-ND	7,000	38.25/M	A104Z15Z5UF5TAA
		.22µf	±20	15	1211PHCT-ND	3.02	21.84	151.20	1211PHTR-ND	7,000	100.80/M	A224M15Z5UF5TAA
		.22µf	+80, -20	20	1204PHCT-ND	2.95	21.29	147.38	1204PHTR-ND	7,000	98.25/M	A224Z20Z5UF5TAA
		.27µf	+80, -20	20	1212PHCT-ND	2.95	21.29	147.38	1212PHTR-ND	7,000	98.25/M	A274Z20Z5UF5TAA
		.33µf	±20	20	1213PHCT-ND	3.06	22.10	153.00	1213PHTR-ND	7,000	102.00/M	A334M20Z5UF5TAA
		.33µf	+80, -20	20	1205PHCT-ND	2.98	21.55	149.18	1205PHTR-ND	7,000	99.45/M	A334Z20Z5UF5TAA
		.47µf	+80, -20	20	1214PHCT-ND	5.70	41.18	285.08	1214PHTR-ND	7,000	190.05/M	A474Z20Z5UF5TAA

Ceramic Disc Capacitors for Safety Regulations – Type RS (IEC384-14 2nd Ed. Sub-Class Y2/X1)



The Type RS is recognized by UL and CSA (UL1414 and CSA C22.2 No. 1).
SPECIFICATIONS: • **Operating Temp. Range:** -25°C to +85°C
• **Rated Voltage:**

Applicable Standards	Rated Voltage
UL, CSA	125 VAC
IEC 384-14 2nd Ed. (EN 132 400) Sub-Class Y2	250 VAC
IEC 384-14 2nd Ed. (EN 132 400) Sub-Class X1	400 VAC
IEC 65 5th Ed.: 1985 BSI (BS415: 1990), VDE 560-2, SEV1016	400 VAC

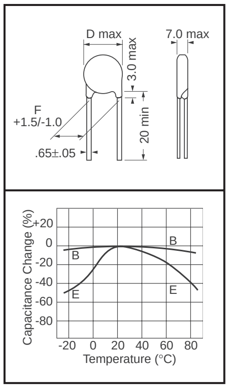
• **Dielectric Withstanding Voltage:** 2600 VAC (50/60 Hz) for 1 minute • **Capacitance:** Within the tolerance, when measured at 1 kHz ± 20%, 1 Vrms and 20°C • **Dissipation Factor (tan δ)**: 0.025 max., when measured at 1 kHz ± 20%, 1 Vrms and 20°C • **Insulation Resistance:** 10,000 MΩ min. at 500 VDC and 1 minute electrification

Temperature Characteristics:

Temp. Char.	Cap. Change	Temp. Range
B/Y5P/2B4	±10% Max.	-25°C to +85°C
E/Y5U/2E4	+20/-55% Max.	-25°C to +85°C
The reference temperature: 20°C		

Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm) D	F	Digi-Key Part No.	Pricing 5	10	100	Panasonic Part No.
100	±20	B	9.5	7.5	P10430-ND	2.23	3.29	23.50	ECK-DRS101MBY
150	±20	B	9.5	7.5	P10431-ND	2.23	3.29	23.50	ECK-DRS151MBY
470	±20	B	9.5	7.5	P10433-ND	2.23	3.29	23.50	ECK-DRS471MBY
1000	±20	B	10.0	7.5	P10434-ND	2.71	3.99	28.50	ECK-DRS102MBY
3300	±20	E	12.5	7.5	P10440-ND	3.98	5.92	43.48	ECK-DRS332MEY
4700	±20	E	16.5	10.0	P10441-ND	4.58	6.82	50.06	ECK-DRS472MEY

Ceramic Disc Capacitors for Safety Regulations – Type NS-A (IEC384-14 2nd Ed. Sub-Class Y1)



Class II Equipment. The Type NS-A is recognized by UL and CSA (UL1414/250 VAC and CSA C22.2 No. 1).
SPECIFICATIONS: • **Operating Temp. Range:** -25°C to +85°C

Applicable Standards	Rated Voltage
UL	250 VAC
CSA	125 VAC
IEC 384-14 2nd Ed. (EN 132 400) Sub-Class Y1	250 VAC
SEV 1016 (3300 to 4700 pF)	250 VAC
BSI (BS415: 1990), VDE 560-2, SEV1016 (100 to 2200 pF)	400 VAC

• **Rated Voltage:**

• **Dielectric Withstanding Voltage:** 4000 VAC (50/60 Hz) for 1 minute • **Capacitance:** Within the tolerance, when measured at 1 kHz ± 20%, 1 Vrms and 20°C • **Dissipation Factor (tan δ)**: 0.025 max., when measured at 1 kHz ± 20%, 1 Vrms and 20°C • **Insulation Resistance:** 10,000 MΩ min. at 500 VDC and 1 minute electrification

Temperature Characteristics:

Temp. Char.	Cap. Change	Temp. Range
B/Y5P/2B4	±10% Max.	-25°C to +85°C
E/Y5U/2E4	+20/-55% Max.	-25°C to +85°C
The reference temperature: 20°C		

Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm) D	F	Digi-Key Part No.	Pricing 5	10	100	Panasonic Part No.
100	±20	B	11.0	10.0	P10446-ND	3.42	5.04	36.00	ECK-DNA101MB
150	±20	B	11.0	10.0	P10447-ND	3.42	5.04	36.00	ECK-DNA151MB
220	±20	B	11.0	10.0	P10448-ND	3.48	5.18	38.07	ECK-DNA221MB
470	±20	B	11.0	10.0	P10449-ND	3.48	5.18	38.07	ECK-DNA471MB
1000	±20	B	11.0	10.0	P10450-ND	3.89	5.79	42.54	ECK-DNA102MB
1500	±20	E	11.0	10.0	P10451-ND	4.30	6.40	47.00	ECK-DNA152ME
2200	±20	E	11.0	10.0	P10452-ND	4.86	7.23	53.11	ECK-DNA222ME
3300	±20	E	13.0	10.0	P10453-ND	5.61	8.35	61.34	ECK-DNA332ME
4700	±20	E	16.0	10.0	P10454-ND	6.30	9.38	68.86	ECK-DNA472ME

Ceramic Disc Capacitors for Safety Regulations – Type TS (IEC384-14 2nd Ed. Sub-Class Y2/X1)

Fig. 1

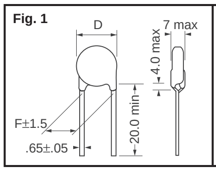
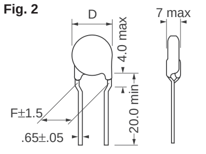
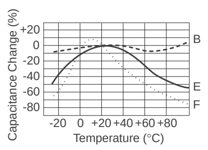


Fig. 2





Approved by UL and CSA for rated voltage 250 VAC.

RECOMMENDED APPLICATIONS:
Noise suppression circuit for switching power supply.

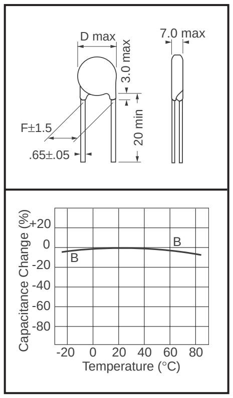
SPECIFICATIONS:
- **Operating Temperature Range:** –25°C to +125°C
- **Rated Voltage:** 250 VAC
- **Voltage Proof:** 2600 VAC for 1 minute
- **Capacitance:** Within the tolerance, when measured at 1 kHz±20%, 1 Vrms and 20ºC
- **Dissipation Factor (tan δ)**: 0.025 max., when measured at 1 kHz ± 20%, 1 Vrms and 20°C
- **Insulation Resistance:** 10,000 MΩ min. at 500 VDC and 1 minute electrification
- **Temperature Characteristics:**

Temp. Char.	Cap. Change	Temp. Range
B/Y5P/2B4	±10% Max.	-25°C to +85°C
E/Y5U/2E4	+20/-55% Max.	-25°C to +85°C
F/Y5V/2F4	+30/-80% Max.	-25°C to +85°C
The reference temperature: 20°C		

Fig.	Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm) D ± 1.0	F	Digi-Key Part No.	Pricing 5	10	100	Panasonic Part No.
1	100	±20	B	7.0	7.5	P10455-ND	1.42	1.93	13.62	ECK-ATS101MB
1	150	±20	B	7.0	7.5	P10456-ND	1.42	1.93	13.62	ECK-ATS151MB
1	220	±20	B	7.0	7.5	P10457-ND	1.42	1.93	13.62	ECK-ATS221MB
1	330	±20	B	7.0	7.5	P10458-ND	1.42	1.93	13.62	ECK-ATS331MB
1	470	±20	B	7.0	7.5	P10459-ND	1.42	1.93	13.62	ECK-ATS471MB
1	680	±20	B	7.0	7.5	P10460-ND	1.42	1.93	13.62	ECK-ATS681MB
1	1000	±20	E	7.0	7.5	P10461-ND	1.50	2.04	14.38	ECK-ATS102ME
1	1500	±20	E	8.0	7.5	P10462-ND	1.78	2.42	17.03	ECK-ATS152ME
1	2200	±20	E	9.0	7.5	P10463-ND	1.82	2.47	17.41	ECK-ATS222ME
2	3300	±20	E	11.5	7.5	P10464-ND	1.90	2.79	19.96	ECK-ATS332ME
1	4700	±20	E	14.0	10.0	P10465-ND	2.45	3.61	25.80	ECK-ATS472ME
2	4700	±20	F	11.5	7.5	P10466-ND	1.90	2.79	19.96	ECK-ATS472MF
1	10000	±20	F	16.0*	10.0	P10467-ND	2.51	3.74	27.47	ECK-ATS103MF
2	4700	±20	E	14.0	7.5	P10468-ND	2.26	3.36	24.68	ECK-ATS472ME6
2	10000	±20	F	16.0*	7.5	P10469-ND	2.75	4.09	30.07	ECK-ATS103MF6

* D is ± 1.5.

Ceramic Disc Capacitors for Safety Regulations – Type NS-B (IEC384-14 2nd Ed. Sub-Class Y2)



Class I Equipment. The Type NS-B is recognized by UL and CSA (UL1414/250 VAC and CSA C22.2 No. 1).
SPECIFICATIONS:
- **Operating Temperature Range:** -25°C to +85°C
- **Rated Voltage:**

Applicable Standards	Rated Voltage
UL	250 VAC
CSA	125 VAC
IEC 384-14 2nd Ed. (EN 132 400) Sub-Class Y2	250 VAC
SEV 1016 (3300 to 4700 pF)	250 VAC
BSI (BS415: 1990), VDE 560-2, SEV1016 (100 to 2200 pF)	400 VAC

• **Dielectric Withstanding Voltage:** 2600 VAC (50/60 Hz) for 1 minute • **Capacitance:** Within the tolerance, when measured at 1 kHz ± 20%, 1 Vrms and 20°C • **Dissipation Factor (tan δ)**: 0.025 max., when measured at 1 kHz ± 20%, 1 Vrms and 20°C • **Insulation Resistance:** 10,000 MΩ min. at 500 VDC and 1 minute electrification

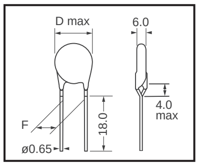
Temperature Characteristics:

Temp. Char.	Cap. Change	Temp. Range
B/Y5P/2B4	±10% Max.	-25°C to +85°C
E/Y5U/2E4	+20/-55% Max.	-25°C to +85°C
The reference temperature: 20°C		

Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm) D	F	Digi-Key Part No.	Pricing 5	10	100	Panasonic Part No.
100	±20	B	10.5	7.5	P10442-ND	1.68	2.47	17.64	ECK-DNB101MB
150	±20	B	10.5	7.5	P10443-ND	1.70	2.51	17.92	ECK-DNB151MB
220	±20	B	10.5	7.5	P10445-ND	1.70	2.51	17.92	ECK-DNB221MB

Ceramic Disc Capacitors for Safety Regulations – Type VS (Sub-Class Y2/X1)

Type VS is Recognized by VDE (IEC60384-14) and UL/CSA.
FEATURES: • Miniature size, 30% is smaller than conventional Type TS
RECOMMENDED APPLICATIONS: • AC adapter, Battery charger for PC, Mobile-phone • Terminal peripheral equipment as MODEM, xDSL
SPECIFICATIONS: • **Operating Temp. Range**: -25ºC to +125ºC (-25ºC to +85°C for UL and CSA) • **Rating Voltage:** 250VAC/Y2, 400VAC/X1 • **Voltage Proof:** 1500VAC, 1 minute • **Dissipation Factor (tan δ):** 0.025 max, when measured at 1kHz±20%, 1.0±0.2 Vrms and 20°C (For Temp. Char. B, E, and F) • **Insulation Resistance:** 10,000 MΩ min. at 500 VDC and 60±5 sec. electrification



Temp. Char.	Cap. Change	Temp. Range
SL	+350 to -1000ppm/°C	+20°C to +85°C
B	±10% Max.	-20°C to +85°C
E	+20, -55% Max.	-20°C to +85°C
F	+30, -80% Max.	-20°C to +85°C
The reference temperature: 20°C		

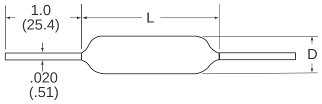
Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm) D	F	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Size	Pricing	Panasonic Part No
5	±0.5pF	SL	8.0	5.0	P11408CT-ND	.32	2.18	15.40	P11408TB-ND	1,000	84.00	ECC-NVS050DG
10	±0.5pF	SL	8.0	5.0	P11409CT-ND	.38	2.54	17.94	P11409TB-ND	1,000	98.00	ECC-NVS100DG
22	±5%	SL	8.0	5.0	P11410CT-ND	.38	2.54	17.94	P11410TB-ND	1,000	98.00	ECC-NVS220JG
47	±5%	SL	8.0	5.0	P11411CT-ND	.32	2.18	15.40	P11411TB-ND	1,000	81.00	ECC-NVS470JG
100	±10%	B	8.0	5.0	P11412CT-ND	.29	1.99	14.00	P11412TB-ND	1,000	76.00	ECK-NVS101KB
150	±10%	B	8.0	5.0	P11413CT-ND	.39	2.64	18.58	P11413TB-ND	1,000	76.00	ECK-NVS151KB
220	±10%	B	8.0	5.0	P11414CT-ND	.35	2.37	16.74	P11414TB-ND	1,000	78.00	ECK-NVS221KB
330	±10%	B	8.0	5.0	P11415CT-ND	.35	2.61	18.61	P11415TB-ND	1,000	73.00	ECK-NVS331KB
470	±10%	B	8.0	5.0	P11416CT-ND	.39	2.64	18.58	P11416TB-ND	1,000	78.00	ECK-NVS471KB
1000	±10%	B	9.0	5.0	P11417CT-ND	.34	2.51	17.92	P11417TB-ND	1,000	100.00	ECK-NVS102KB
1000	±20%	E	8.0	5.0	P11418CT-ND	.31	2.09	14.76	P11418TB-ND	1,000	81.00	ECK-NVS102ME
1500	±20%	E	8.0	5.0	P11419CT-ND	.35	2.61	18.61	P11419TB-ND	1,000	75.00	ECK-NVS152ME
2200	±20%	E	9.0	5.0	P11420CT-ND	.39	2.64	18.58	P11420TB-ND	1,000	85.00	ECK-NVS222ME
4700	±20%	E	11.0	5.0	P11421CT-ND	.49	3.60	25.70	P11421TB-ND	1,000	144.00	ECK-NVS472ME
4700	±20%	F	10.0	5.0	P11422CT-ND	.59	4.36	31.12	P11422TB-ND	1,000	98.00	ECK-NVS472MF
10000	±20%	F	14.0	7.5	P11423CT-ND	.60	4.49	33.00	P11423TB-ND	500	94.50	ECK-NVS103MF

KEMET Ceramic Conformally Coated Axial Leaded Capacitors “AXIMAX”

The “Aximax” series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C to +125°C (Also known as “NP0”). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C to +125°C. **Z5U:** Class III, with a maximum capacitance change of +22% - 56% over an operating temperature range of +10°C to +85°C.

Style	L Max. In. (mm)	D Max. In. (mm)
C410	.170 (4.32)	.100 (2.54)
C412	.170 (4.32)	.120 (3.05)
C420	.260 (6.60)	.100 (5.54)
C430	.290 (7.37)	.150 (3.81)
C440	.400 (10.16)	.150 (3.81)



Dielectric	Volt.	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Kemet Part No.
C0G	100	10pF	±5	410	399-1806-1-ND	.29	2.79	20.18	139.73	399-1806-2-ND	5,000	93.00/M	C410C100J1G5CA7200
	100	15pF	±5	410	399-1807-1-ND	.29	2.79	20.18	139.73	399-1807-2-ND	5,000	93.00/M	C410C150J1G5CA7200
	100	22pF	±5	410	399-1808-1-ND	.29	2.79	20.18	139.73	399-1808-2-ND	5,000	93.00/M	C410C220J1G5CA7200
	100	33pF	±5	410	399-1809-1-ND	.29	2.79	20.18	139.73	399-1809-2-ND	5,000	93.00/M	C410C330J1G5CA7200
	100	47pF	±5	410	399-1810-1-ND	.29	2.79	20.18	139.73	399-1810-2-ND	5,000	93.00/M	C410C470J1G5CA7200
	100	68pF	±5	410	399-1811-1-ND	.29	2.79	20.18	139.73	399-1811-2-ND	5,000	93.00/M	C410C680J1G5CA7200
	100	100pF	±5	410	399-1812-1-ND	.26	2.48	17.94	124.20	399-1812-2-ND	5,000	83.00/M	C410C101J1G5CA7200
	100	150pF	±5	410	399-1813-1-ND	.29	2.79	20.18	139.73	399-1813-2-ND	5,000	93.00/M	C410C151J1G5CA7200
	100	220pF	±5	410	399-1814-1-ND	.29	2.79	20.18	139.73	399-1814-2-ND	5,000	93.00/M	C410C221J1G5CA7200
	100	330pF	±5	410	399-1815-1-ND	.29	2.79	20.18	139.73	399-1815-2-ND	5,000	93.00/M	C410C331J1G5CA7200
	100	470pF	±5	410	399-1816-1-ND	.29	2.79	20.18	139.73	399-1816-2-ND	5,000	93.00/M	C410C471J1G5CA7200
	100	680pF	±5	410	399-1817-1-ND	.29	2.79	20.18	139.73	399-1817-2-ND	5,000	93.00/M	C410C681J1G5CA7200
	100	1000pF	±5	410	399-1818-1-ND	.27	2.59	18.69	129.38	399-1818-2-ND	5,000	86.00/M	C410C102J1G5CA7200
	100	1500pF	±5	420	399-1819-1-ND	.44	4.14	29.90	207.00	399-1819-2-ND	5,000	138.00/M	C420C152J1G5CA7200
	100	2200pF	±5	420	399-1820-1-ND	.46	4.35	31.40	217.35	399-1820-2-ND	5,000	145.00/M	C420C222J1G5CA7200
	100	3300pF	±5	430	399-1821-1-ND	.75	7.14	51.58	357.08	399-1821-2-ND	2,500	238.00/M	C430C332J1G5CA7200
	100	4700pF	±5	430	399-1822-1-ND	.75	7.14	51.58	357.08	399-1822-2-ND	2,500	238.00/M	C430C472J1G5CA7200
	100	6800pF	±5	430	399-1823-1-ND	1.02	9.63	69.52	481.28	399-1823-2-ND	2,500	321.00/M	C430C682J1G5CA7200
	100	.01µF	±5	440	399-1824-1-ND	1.17	11.13	80.37	556.43	399-1824-2-ND	2,500	371.00/M	C440C103J1G5CA7200
	100	.015µF	±5	440	399-1825-1-ND	1.17	11.13	80.37	556.43	399-1825-2-ND	2,500	371.00/M	C440C153J1G5CA7200
	50	680pF	±5	410	399-1826-1-ND	.30	2.85	20.57	142.43	399-1826-2-ND	5,000	95.00/M	C410C681J5G5CA7200
	50	1000pF	±5	410	399-1827-1-ND	.27	2.59	18.69	129.38	399-1827-2-ND	5,000	86.00/M	C410C102J5G5CA7200
	50	1500pF	±5	412	399-1828-1-ND	.46	4.35	31.40	217.35	399-1828-2-ND	5,000	145.00/M	C412C152J5G5CA7200
	50	2200pF	±5	412	399-1829-1-ND	.46	4.35	31.40	217.35	399-1829-2-ND	5,000	145.00/M	C412C222J5G5CA7200
	50	1500pF	±5	420	399-1830-1-ND	.46	4.35	31.40	217.35	399-1830-2-ND	5,000	145.00/M	C420C152J5G5CA7200
	50	2200pF	±5	420	399-1831-1-ND	.46	4.35	31.40	217.35	399-1831-2-ND	5,000	145.00/M	C420C222J5G5CA7200
	50	3300pF	±5	430	399-1832-1-ND	.85	8.02	57.95	401.18	399-1832-2-ND	2,500	267.00/M	C430C332J5G5CA7200
	50	4700pF	±5	430	399-1833-1-ND	.85	8.02	57.95	401.18	399-1833-2-ND	2,500	267.00/M	C430C472J5G5CA7200
	50	6800pF	±5	430	399-1834-1-ND	.85	8.02	57.95	401.18	399-1834-2-ND	2,500	267.00/M	C430C682J5G5CA7200
	50	.01µF	±5	440	399-1835-1-ND	1.17	11.13	80.37	556.43	399-1835-2-ND	2,500	371.00/M	C440C103J5G5CA7200
	50	.015µF	±5	440	399-1836-1-ND	1.44	13.66	98.67	683.10	399-1836-2-ND	2,500	455.00/M	C440C153J5G5CA7200
X7R	100	470pF	±10	410	399-1837-1-ND	.22	2.13	15.37	106.43	399-1837-2-ND	5,000	71.00/M	C410C471K1R5CA7200
	100	680pF	±10	410	399-1838-1-ND	.22	2.13	15.37	106.43	399-1838-2-ND	5,000	71.00/M	C410C681K1R5CA7200
	100	1000pF	±10	410	399-1839-1-ND	.21	1.98	14.30	99.00	399-1839-2-ND	5,000	66.00/M	C410C102K1R5CA7200
	100	1500pF	±10	410	399-1840-1-ND	.22	2.13	15.37	106.43	399-1840-2-ND	5,000	71.00/M	C410C152K1R5CA7200
	100	2200pF	±10	410	399-1841-1-ND	.22	2.13	15.37	106.43	399-1841-2-ND	5,000	71.00/M	C410C222K1R5CA7200
	100	3300pF	±10	410	399-1842-1-ND	.22	2.13	15.37	106.43	399-1842-2-ND	5,000	71.00/M	C410C332K1R5CA7200
	100	4700pF	±10	410	399-1843-1-ND	.22	2.13	15.37	106.43	399-1843-2-ND	5,000	71.00/M	C410C472K1R5CA7200
	100	6800pF	±10	410	399-1844-1-ND	.22	2.13	15.37	106.43	399-1844-2-ND	5,000	71.00/M	C410C682K1R5CA7200
	100	.01µF	±10	410	399-1845-1-ND	.18	1.68	12.16	84.15	399-1845-2-ND	5,000	56.00/M	C410C103K1R5CA7200
	100	.015µF	±10	412	399-1846-1-ND	.26	2.48	17.88	123.75	399-1846-2-ND	5,000	83.00/M	C412C153K1R5CA7200
	100	.022µF	±10	412	399-1847-1-ND	.33	3.17	22.88	158.40	399-1847-2-ND	5,000	106.00/M	C412C223K1R5CA7200
	100	.015µF	±10	420	399-1848-1-ND	.26	2.48	17.88	123.75	399-1848-2-ND	5,000	83.00/M	C420C153K1R5CA7200
	100	.022µF	±10	420	399-1849-1-ND	.37	3.47	25.03	173.25	399-1849-2-ND	5,000	116.00/M	C420C223K1R5CA7200
	100	.033µF	±10	420	399-1850-1-ND	.37	3.47	25.03	173.25	399-1850-2-ND	5,000	116.00/M	C420C333K1R5CA7200
	100	.047µF	±10	430	399-1851-1-ND	.47	4.46	32.18	222.75	399-1851-2-ND	2,500	149.00/M	C430C473K1R5CA7200
	100	.068µF	±10	430	399-1852-1-ND	.65	6.14	44.33	306.90	399-1852-2-ND	2,500	205.00/M	C430C683K1R5CA7200
	100	.1µF	±10	430	399-1853-1-ND	.52	4.95	35.75	247.50	399-1853-2-ND	2,500	165.00/M	C430C104K1R5CA7200
	100	.15µF	±10	440	399-1854-1-ND	.96	9.11	65.78	455.40	399-1854-2-ND	2,500	304.00/M	C440C154K1R5CA7200
	50	.01µF	±10	410	399-1855-1-ND	.17	1.58	11.44	79.20	399-1855-2-ND	5,000	53.00/M	C410C103K5R5CA7200
	50	.015µF	±10	410	399-1856-1-ND	.29	2.72	19.66	136.13	399-1856-2-ND	5,000	91.00/M	C410C153K5R5CA7200
	50	.022µF	±10	410	399-1857-1-ND	.29	2.72	19.66	136.13	399-1857-2-ND	5,000	91.00/M	C410C223K5R5CA7200
	50	.033µF	±10	410	399-1858-1-ND	.29	2.72	19.66	136.13	399-1858-2-ND	5,000	91.00/M	C410C333K5R5CA7200
	50	.047µF	±10	410	399-1859-1-ND	.31	2.97	21.45	148.50	399-1859-2-ND	5,000	99.00/M	C410C473K5R5CA7200
	50	.068µF	±10	412	399-1860-1-ND	.31	2.97	21.45	148.50	399-1860-2-ND	5,000	99.00/M	C412C683K5R5CA7200
	50	.1µF	±10	412	399-1861-1-ND	.20	1.88	13.59	94.05	399-1861-2-ND	5,000	63.00/M	C412C104K5R5CA7200
	50	.068µF	±10	420	399-1862-1-ND	.31	2.97	21.45	148.50	399-1862-2-ND	5,000	99.00/M	C420C683K5R5CA7200
	50	.1µF	±10	420	399-1863-1-ND	.20	1.88	13.59	94.05	399-1863-2-ND	5,000	63.00/M	C420C104K5R5CA7200
	50	.15µF	±10	430	399-1864-1-ND	.65	6.14	44.33	306.90	399-1864-2-ND	2,500	205.00/M	C430C154K5R5CA7200
	50	.22µF	±10	430	399-1865-1-ND	.96	9.11	65.78	455.40	399-1865-2-ND	2,500	304.00/M	C430C224K5R5CA7200
	50	.33µF	±10	440	399-1866-1-ND	1.06	10.00	72.22	499.95	399-1866-2-ND	2,500	333.00/M	C440C334K5R5CA7200
	50	.47µF	±10	440	399-1867-1-ND	1.57	14.85	107.25	742.50	399-1867-2-ND	2,500	495.00/M	C440C474K5R5CA7200
Z5U	100	.01µF	±20	410	399-1868-1-ND	.14	1.29	9.30	64.35	399-1868-2-ND	5,000	43.00/M	C410C103M1U5CA7200
	100	.015µF	±20	410	399-1869-1-ND	.19	1.83	13.23	91.58	399-1869-2-ND	5,000	61.00/M	C410C153M1U5CA7200
	100	.022µF	±20	410	399-1870-1-ND	.19	1.83	13.23	91.58	399-1870-2-ND	5,000	61.00/M	C410C223M1U5CA7200
	100	.033µF	±20	420	399-1871-1-ND	.30	2.87	20.74	143.55	399-1871-2-ND	5,000	96.00/M	C420C333M1U5CA7200
	100	.047µF	±20	420	399-1872-1-ND	.30	2.87	20.74	143.55	399-1872-2-ND	5,000	96.00/M	C420C473M1U5CA7200
	100	.068µF	±20	430	399-1873-1-ND	.52	4.95	35.75	247.50	399-1873-2-ND	2,500	165.00/M	C430C683M1U5CA7200
	100	.1µF	±20	430	399-1874-1-ND	.34	3.22	23.24	160.88	399-1874-2-ND	2,500	107.00/M	C430C104M1U5CA7200
	100	.15µF	±20	430	399-1875-1-ND	.57	5.45	39.33	272.25	399-1875-2-ND	2,500	182.00/M	C430C154M1U5CA7200
	100	.22µF	±20	440	399-1876-1-ND	.57	5.45	39.33	272.25	399-1876-2-ND	2,500	182.00/M	C440C224M1U5CA7200
	50	.033µF	±20	410	399-1877-1-ND	.18	1.68	12.16	84.15	399-1877-2-ND	5,000	56.00/M	C410C333M5U5CA7200
	50	.047µF	±20	410	399-1878-1-ND	.18	1.68	12.16	84.15	399-1878-2-ND	5,000	56.00/M	C410C473M5U5CA7200
	50	.068µF	±20	410	399-1879-1-ND	.18	1.68	12.16	84.15	399-1879-2-ND	5,000	56.00/M	C410C683M5U5CA7200
	50	.1µF	±20	410	399-1880-1-ND	.13	1.19	8.58	59.40	399-1880-2-ND	5,000	40.00/M	C410C104M5U5CA7200
	50	.15µF	±20	410	399-1881-1-ND	.26	2.48	17.88	123.75	399-1881-2-ND	5,000	83.00/M	C410C154M5U5CA7200
	50	.22µF	±20	410	399-1882-1-ND	.26	2.48	17.88	123.75	399-1882-2-ND	5,000	83.00/M	C410C224M5U5CA7200
	50	.33µF	±20	412	399-1883-1-ND	.40	3.81	27.53	190.58	399-1883-2-ND	5,000	127.00/M	C412C334M5U5CA7200
	50	.33µF	±20	420	399-1884-1-ND	.40	3.81	27.53	190.58	399-1884-2-ND	5,000	127.00/M	C420C334M5U5CA7200
	50	.47µF	±20	430	399-1885-1-ND	.65	6.19	44.69	309.38	399-1885-2-ND	2,500	206.00/M	C430C474M5U5CA7200
	50	.68µF	±20	430	399-1886-1-ND	.65	6.19	44.69	309.38	399-1886-2-ND	2,500	206.00/M	C430C684M5U5CA7200
	50	1µF	±20	440	399-1887-1-ND	.84	7.92	57.20	396.00	399-1887-2-ND	2,500	264.00/M	C440C105M5U5CA7200

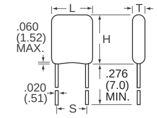
KEMET

Ceramic Conformally Coated Radial Leaded Capacitors “GOLDEN MAX”

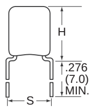
The “Golden Max” series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, and interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C to +125°C (Also known as “NP0”). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C to +125°C. **Z5U:** Class III, with a maximum capacitance change of +22% - 56% over an operating temperature range of +10°C to +85°C.

Series:
C315
C320
C330
C340



Series:
C317
C322



			Dimensions - Inches (mm)				Digi-Key	Pricing				Kemet
Dielectric	VDC	Cap.	S (1) + .030	L Max.	H Max.	T Max.	Part No.	1	10	100	500	Part No.
C315 Series												
C0G ±5%	100	150pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1900-ND	.27	1.96	14.00	50.40	C315C151J1G5CA
	100	220pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1901-ND	.27	1.96	14.00	50.40	C315C221J1G5CA
	100	330pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1902-ND	.27	1.96	14.00	50.40	C315C331J1G5CA
	100	470pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1903-ND	.27	1.96	14.00	50.40	C315C471J1G5CA
	100	680pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1904-ND	.38	2.82	20.15	72.54	C315C681J1G5CA
	100	1000pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1905-ND	.31	2.28	16.25	58.50	C315C102J1G5CA
	200	10pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1888-ND	.26	1.93	13.75	49.50	C315C100J2G5CA
	200	15pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1889-ND	.28	2.08	14.85	53.46	C315C150J2G5CA
	200	22pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1890-ND	.28	2.08	14.85	53.46	C315C220J2G5CA
	200	27pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1891-ND	.28	2.08	14.85	53.46	C315C270J2G5CA
	200	33pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1892-ND	.28	2.08	14.85	53.46	C315C330J2G5CA
	200	47pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1893-ND	.28	2.08	14.85	53.46	C315C470J2G5CA
	200	68pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1894-ND	.30	2.19	15.68	56.43	C315C680J2G5CA
	200	100pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1895-ND	.28	2.08	14.85	53.46	C315C101J2G5CA
	200	150pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1896-ND	.32	2.35	16.80	60.48	C315C151J2G5CA
	200	220pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1897-ND	.32	2.35	16.80	60.48	C315C221J2G5CA
	200	330pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1898-ND	.38	2.82	20.15	72.54	C315C331J2G5CA
	200	470pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1899-ND	.38	2.82	20.15	72.54	C315C471J2G5CA
X7R ±10%	50	3300pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2001-ND	.19	1.39	9.90	35.64	C315C332K5R5CA
	50	4700pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2002-ND	.21	1.54	11.00	39.60	C315C472K5R5CA
	50	6800pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2003-ND	.21	1.54	11.00	39.60	C315C682K5R5CA
	50	.01µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2004-ND	.20	1.51	10.75	38.70	C315C103K5R5CA
	50	.015µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2005-ND	.21	1.54	11.00	39.60	C315C153K5R5CA
	50	.022µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2006-ND	.22	1.66	11.83	42.57	C315C223K5R5CA
	50	.033µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2007-ND	.22	1.66	11.83	42.57	C315C333K5R5CA
	100	1000pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1994-ND	.17	1.27	9.08	32.67	C315C102K1R5CA
	100	1500pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1995-ND	.19	1.39	9.90	35.64	C315C152K1R5CA
	100	2200pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1996-ND	.19	1.39	9.90	35.64	C315C222K1R5CA
	100	3300pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1997-ND	.19	1.39	9.90	35.64	C315C332K1R5CA
	100	4700pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1998-ND	.21	1.54	11.00	39.60	C315C472K1R5CA
	100	6800pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1999-ND	.21	1.54	11.00	39.60	C315C682K1R5CA
	100	.01µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2000-ND	.19	1.39	9.90	35.64	C315C103K1R5CA
	200	100pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1985-ND	.22	1.65	11.75	42.30	C315C101K2R5CA
	200	150pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1986-ND	.24	1.80	12.88	46.35	C315C151K2R5CA
	200	220pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1987-ND	.24	1.80	12.88	46.35	C315C221K2R5CA
	200	330pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1988-ND	.24	1.80	12.88	46.35	C315C331K2R5CA
	200	470pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1989-ND	.24	1.80	12.88	46.35	C315C471K2R5CA
	200	680pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1990-ND	.24	1.80	12.88	46.35	C315C681K2R5CA
	200	1000pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1991-ND	.22	1.65	11.75	42.30	C315C102K2R5CA
	200	1500pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1992-ND	.24	1.80	12.88	46.35	C315C152K2R5CA
	200	2200pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1993-ND	.24	1.80	12.88	46.35	C315C222K2R5CA
Z5U ±20%	50	4700pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2119-ND	.19	1.37	9.78	35.19	C315C472M5U5CA
	50	6800pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2120-ND	.19	1.37	9.78	35.19	C315C682M5U5CA
	50	.01µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2121-ND	.16	1.21	8.63	31.05	C315C103M5U5CA
	50	.015µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2122-ND	.18	1.33	9.50	34.20	C315C153M5U5CA
	50	.022µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2123-ND	.18	1.33	9.50	34.20	C315C223M5U5CA
	50	.033µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2124-ND	.18	1.33	9.50	34.20	C315C333M5U5CA
	50	.047µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2125-ND	.18	1.33	9.50	34.20	C315C473M5U5CA
	50	.068µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2126-ND	.20	1.49	10.65	38.34	C315C683M5U5CA
	50	.1µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2127-ND	.16	1.21	8.63	31.05	C315C104M5U5CA
	100	1000pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2111-ND	.17	1.25	8.93	32.13	C315C102M1U5CA
	100	1500pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2112-ND	.19	1.37	9.78	35.19	C315C152M1U5CA
	100	2200pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2113-ND	.19	1.37	9.78	35.19	C315C222M1U5CA
	100	3300pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2114-ND	.19	1.37	9.78	35.19	C315C332M1U5CA
	100	4700pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2115-ND	.19	1.37	9.78	35.19	C315C472M1U5CA
	100	6800pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2116-ND	.19	1.37	9.78	35.19	C315C682M1U5CA
	100	.01µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2117-ND	.17	1.25	8.93	32.13	C315C103M1U5CA
	100	.015µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2118-ND	.21	1.53	10.93	39.33	C315C153M1U5CA
C317 Series												
C0G ±5%	100	150pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1918-ND	.27	1.96	14.00	50.40	C317C151J1G5CA
	100	220pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1919-ND	.27	1.96	14.00	50.40	C317C221J1G5CA
	100	330pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1920-ND	.27	1.96	14.00	50.40	C317C331J1G5CA
	100	470pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1921-ND	.27	1.96	14.00	50.40	C317C471J1G5CA
	100	680pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1922-ND	.38	2.82	20.15	72.54	C317C681J1G5CA
	100	1000pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1923-ND	.31	2.28	16.25	58.50	C317C102J1G5CA
	200	10pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1906-ND	.26	1.93	13.75	49.50	C317C100J2G5CA
	200	15pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1907-ND	.28	2.08	14.85	53.46	C317C150J2G5CA
	200	22pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1908-ND	.28	2.08	14.85	53.46	C317C220J2G5CA
	200	33pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1909-ND	.28	2.08	14.85	53.46	C317C330J2G5CA
	200	39pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1910-ND	.28	2.08	14.85	53.46	C317C390J2G5CA
	200	47pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1911-ND	.28	2.08	14.85	53.46	C317C470J2G5CA
	200	68pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1912-ND	.30	2.19	15.68	56.43	C317C680J2G5CA
	200	100pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1913-ND	.28	2.08	14.85	53.46	C317C101J2G5CA
	200	150pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1914-ND	.32	2.35	16.80	60.48	C317C151J2G5CA
	200	220pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1915-ND	.32	2.35	16.80	60.48	C317C221J2G5CA
	200	330pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1916-ND	.38	2.82	20.15	72.54	C317C331J2G5CA
	200	470pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1917-ND	.38	2.82	20.15	72.54	C317C471J2G5CA
X7R ±10%	50	3300pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2024-ND	.19	1.39	9.90	35.64	C317C332K5R5CA
	50	4700pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2025-ND	.21	1.54	11.00	39.60	C317C472K5R5CA
	50	6800pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2026-ND	.21	1.54	11.00	39.60	C317C682K5R5CA
	50	.01µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2027-ND	.20	1.51	10.75	38.70	C317C103K5R5CA
	50	.015µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2028-ND	.21	1.54	11.00	39.60	C317C153K5R5CA
	50	.022µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2029-ND	.22	1.66	11.83	42.57	C317C223K5R5CA
	50	.033µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2030-ND	.22	1.66	11.83	42.57	C317C333K5R5CA
	100	1000pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2017-ND	.17	1.27	9.08	32.67	C317C102K1R5CA
	100	1500pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2018-ND	.19	1.39	9.90	35.64	C317C152K1R5CA
	100	2200pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2019-ND	.19	1.39	9.90	35.64	C317C222K1R5CA
	100	3300pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2020-ND	.19	1.39	9.90	35.64	C317C332K1R5CA
	100	4700pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2021-ND	.21	1.54	11.00	39.60	C317C472K1R5CA
	100	6800pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2022-ND	.21	1.54	11.00	39.60	C317C682K1R5CA
	100	.01µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2023-ND	.19	1.39	9.90	35.64	C317C103K1R5CA
	200	100pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2008-ND	.22	1.65	11.75	42.30	C317C101K2R5CA
	200	150pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2009-ND	.24	1.80	12.88	46.35	C317C151K2R5CA
	200	220pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2010-ND	.24	1.80	12.88	46.35	C317C221K2R5CA
	200	330pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2011-ND	.24	1.80	12.88	46.35	C317C331K2R5CA
	200	470pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2012-ND	.24	1.80	12.88	46.35	C317C471K2R5CA
	200	680pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2013-ND	.24	1.80	12.88	46.35	C317C681K2R5CA

(Continued)

			Dimensions - Inches (mm)				Digi-Key	Pricing				Kemet
Dielectric	**VDC**	**Cap.**	**S (1) + .030**	**L Max.**	**H Max.**	**T Max.**	**Part No.**	**1**	**10**	**100**	**500**	**Part No.**
X7R ±10%	200	1000pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2014-ND	.22	1.65	11.75	42.30	C317C102K2R5CA
	200	1500pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2015-ND	.24	1.80	12.88	46.35	C317C152K2R5CA
	200	2200pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2016-ND	.24	1.80	12.88	46.35	C317C222K2R5CA
Z5U ±20%	50	6800pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2136-ND	.19	1.37	9.78	35.19	C317C682M5U5CA
	50	.01µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2137-ND	.16	1.21	8.63	31.05	C317C103M5U5CA
	50	.015µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2138-ND	.18	1.33	9.50	34.20	C317C153M5U5CA
	50	.022µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2139-ND	.18	1.33	9.50	34.20	C317C223M5U5CA
	50	.033µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2140-ND	.18	1.33	9.50	34.20	C317C333M5U5CA
	50	.047µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2141-ND	.18	1.33	9.50	34.20	C317C473M5U5CA
	50	.068µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2142-ND	.20	1.49	10.65	38.34	C317C683M5U5CA
	50	.1µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2143-ND	.16	1.21	8.63	31.05	C317C104M5U5CA
	100	1000pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2128-ND	.17	1.25	8.93	32.13	C317C102M1U5CA
	100	1500pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2129-ND	.19	1.37	9.78	35.19	C317C152M1U5CA
	100	2200pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2130-ND	.19	1.37	9.78	35.19	C317C222M1U5CA
	100	3300pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2131-ND	.19	1.37	9.78	35.19	C317C332M1U5CA
	100	4700pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2132-ND	.19	1.37	9.78	35.19	C317C472M1U5CA
	100	6800pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2133-ND	.19	1.37	9.78	35.19	C317C682M1U5CA
	100	.01µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2134-ND	.17	1.25	8.93	32.13	C317C103M1U5CA
	100	.015µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2135-ND	.21	1.53	10.93	39.33	C317C153M1U5CA
C320 Series												
C0G ±5%	100	680pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1940-ND	.39	2.85	20.35	73.26	C320C681J1G5CA
	100	1000pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1941-ND	.31	2.29	16.38	58.95	C320C102J1G5CA
	100	1500pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1942-ND	.39	2.90	20.70	74.52	C320C152J1G5CA
	100	2200pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1943-ND	.39	2.90	20.70	74.52	C320C222J1G5CA
	100	3300pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1944-ND	.45	3.30	23.58	84.87	C320C332J1G5CA
	100	4700pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1945-ND	.48	3.54	25.30	91.08	C320C472J1G5CA
	200	10pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1924-ND	.27	1.96	14.00	50.40	C320C100J2G5CA
	200	15pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1925-ND	.29	2.12	15.13	54.45	C320C150J2G5CA
	200	22pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1926-ND	.29	2.12	15.13	54.45	C320C220J2G5CA
	200	33pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1927-ND	.29	2.12	15.13	54.45	C320C330J2G5CA
	200	47pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1928-ND	.29	2.12	15.13	54.45	C320C470J2G5CA
	200	68pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1929-ND	.30	2.23	15.95	57.42	C320C680J2G5CA
	200	100pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1930-ND	.29	2.12	15.13	54.45	C320C101J2G5CA
	200	150pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1931-ND	.32	2.37	16.95	61.02	C320C151J2G5CA
	200	220pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1932-ND	.32	2.37	16.95	61.02	C320C221J2G5CA
	200	330pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1933-ND	.39	2.85	20.35	73.26	C320C331J2G5CA
	200	470pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1934-ND	.39	2.85	20.35	73.26	C320C471J2G5CA
	200	680pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1935-ND	.42	3.08	22.03	79.29	C320C681J2G5CA
	200	1000pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1936-ND	.40	2.97	21.20	76.32	C320C102J2G5CA
	200	1500pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1937-ND	.45	3.30	23.58	84.87	C320C152J2G5CA
	200	2200pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1938-ND	.45	3.30	23.58	84.87	C320C222J2G5CA
	200	3300pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1939-ND	.55	4.07	29.05	104.58	C320C332J2G5CA
X7R ±10%	50	.015µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2049-ND	.21	1.57	11.20	40.32	C320C153K5R5CA
	50	.022µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2050-ND	.23	1.69	12.05	43.38	C320C223K5R5CA
	50	.033µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2051-ND	.23	1.69	12.05	43.38	C320C333K5R5CA
	50	.047µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2052-ND	.26	1.92	13.73	49.41	C320C473K5R5CA
	50	.068µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2053-ND	.26	1.92	13.73	49.41	C320C683K5R5CA
	50	.1µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2054-ND	.21	1.57	11.20	40.32	C320C104K5R5CA
	50	.15µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2055-ND	.37	2.71	19.33	69.57	C320C154K5R5CA
	50	.22µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2056-ND	.53	3.92	28.00	100.80	C320C224K5R5CA
	100	4700pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2040-ND	.21	1.58	11.30	40.68	C320C472K1R5CA
	100	6800pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2041-ND	.21	1.58	11.30	40.68	C320C682K1R5CA
	100	.01µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2042-ND	.19	1.42	10.18	36.63	C320C103K1R5CA
	100	.015µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2043-ND	.24	1.74	12.43	44.73	C320C153K1R5CA
	100	.022µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2044-ND	.27	2.02	14.40	51.84	C320C223K1R5CA
	100	.033µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2045-ND	.27	2.02	14.40	51.84	C320C333K1R5CA
	100	.047µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2046-ND	.34	2.49	17.80	64.08	C320C473K1R5CA
	100	.068µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2047-ND	.34	2.49	17.80	64.08	C320C683K1R5CA
	100	.1µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2048-ND	.34	2.49	17.80	64.08	C320C104K1R5CA
	200	1000pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2031-ND	.23	1.69	12.08	43.47	C320C102K2R5CA
	200	1500pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2032-ND	.25	1.85	13.23	47.61	C320C152K2R5CA
	200	2200pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2033-ND	.25	1.85	13.23	47.61	C320C222K2R5CA
	200	3300pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2034-ND	.25	1.85	13.23	47.61	C320C332K2R5CA
	200	4700pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2035-ND	.27	2.01	14.38	51.75	C320C472K2R5CA
	200	6800pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2036-ND	.27	2.01	14.38	51.75	C320C682K2R5CA
	200	.01µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2037-ND	.25	1.85	13.23	47.61	C320C103K2R5CA
	200	.015µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2038-ND	.31	2.30	16.40	59.04	C320C153K2R5CA
	200	.022µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2039-ND	.31	2.30	16.40	59.04	C320C223K2R5CA
Z5U ±20%	50	.033µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2152-ND	.18	1.33	9.50	34.20	C320C333M5U5CA
	50	.047µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2153-ND	.18	1.33	9.50	34.20	C320C473M5U5CA
	50	.068µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2154-ND	.20	1.49	10.65	38.34	C320C683M5U5CA
	50	.1µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2155-ND	.16	1.21	8.63	31.05	C320C104M5U5CA
	50	.15µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2156-ND	.24	1.73	12.38	44.55	C320C154M5U5CA
	50	.22µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2157-ND	.32	2.33	16.68	60.03	C320C224M5U5CA
	50	.33µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2158-ND	.32	2.33	16.68	60.03	C320C334M5U5CA
	50	.47µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2159-ND	.40	2.94	21.00	75.60	C320C474M5U5CA
	100	.01µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2144-ND	.17	1.25	8.93	32.13	C320C103M1U5CA
	100	.015µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2145-ND	.21	1.53	10.93	39.33	C320C153M1U5CA
	100	.022µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2146-ND	.21	1.53	10.93	39.33	C320C223M1U5CA
	100	.033µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2147-ND	.24	1.73	12.38	44.55	C320C333M1U5CA
	100	.047µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2148-ND	.24	1.73	12.38	44.55	C320C473M1U5CA
	100	.068µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2149-ND	.28	2.05	14.68	52.83	C320C683M1U5CA
	100	.1µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2150-ND	.21	1.53	10.93	39.33	C320C104M1U5CA
	100	.15µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2151-ND	.38	2.78	19.85	71.46	C320C154M1U5CA
C322 Series												
C0G ±5%	100	680pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1962-ND	.39	2.85	20.35	73.26	C322C681J1G5CA
	100	1000pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1963-ND	.31	2.29	16.38	58.95	C322C102J1G5CA
	100	1500pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1964-ND	.39	2.90	20.70	74.52	C322C152J1G5CA
	100	2200pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1965-ND	.39	2.90	20.70	74.52	C322C222J1G5CA
	100	3300pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1966-ND	.45	3.30	23.58	84.87	C322C332J1G5CA
	100	4700pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1967-ND	.48	3.54	25.30	91.08	C322C472J1G5CA
	200	10pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1946-ND	.27	1.96	14.00	50.40	C322C100J2G5CA
	200	15pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1947-ND	.29	2.12	15.13	54.45	C322C150J2G5CA
	200	22pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1948-ND	.29	2.12	15.13	54.45	C322C220J2G5CA
	200	33pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1949-ND	.29	2.12	15.13	54.45	C322C330J2G5CA
	200	47pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1950-ND	.29	2.12	15.13	54.45	C322C470J2G5CA
	200	68pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1951-ND	.30	2.23	15.95	57.42	C322C680J2G5CA
	200	100pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1952-ND	.29	2.12	15.13	54.45	C322C101J2G5CA
	200	150pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1953-ND	.32	2.37	16.95	61.02	C322C151J2G5CA
	200	220pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1954-ND	.32	2.37	16.95	61.02	C322C221J2G5CA
	200	330pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1955-ND	.39	2.85	20.35	73.26	C322C331J2G5CA
	200	470pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1956-ND	.39	2.85	20.35	73.26	C322C471J2G5CA
	200	680pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1957-ND	.42	3.08	22.03	79.29	C322C681J2G5CA
	200	1000pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1958-ND	.40	2.97	21.20	76.32	C322C102J2G5CA
	200	1500pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1959-ND	.45	3.30	23.58	84.87	C322C152J2G5CA
	200	2200pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1960-ND	.45	3.30	23.58	84.87	C322C222J2G5CA
	200	3300pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1961-ND	.55	4.07	29.05	104.58	C322C332J2G5CA

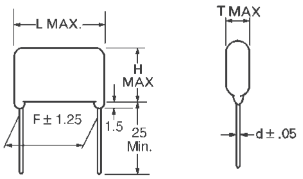
(Continued)

KEMET Ceramic Conformally Coated Radial Leaded Capacitors “GOLDEN MAX” *(Cont.)*

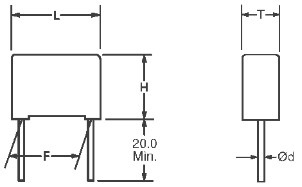
Dielectric	VDC	Cap.	Dimensions - Inches (mm) S (1) + .030	L Max.	H Max.	T Max.	Digi-Key Part No.	Pricing 1	10	100	500	Kemet Part No.
X7R ±10%	50	.01µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2075-ND	.18	1.30	9.25	33.30	C322C103K5R5CA
	50	.015µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2076-ND	.21	1.57	11.20	40.32	C322C153K5R5CA
	50	.022µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2077-ND	.23	1.69	12.05	43.38	C322C223K5R5CA
	50	.033µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2078-ND	.23	1.69	12.05	43.38	C322C333K5R5CA
	50	.047µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2079-ND	.26	1.92	13.73	49.41	C322C473K5R5CA
	50	.068µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2080-ND	.26	1.92	13.73	49.41	C322C683K5R5CA
	50	.1µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2081-ND	.21	1.57	11.20	40.32	C322C104K5R5CA
	50	.15µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2082-ND	.37	2.71	19.33	69.57	C322C154K5R5CA
	50	.22µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2083-ND	.53	3.92	28.00	100.80	C322C224K5R5CA
	100	4700pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2066-ND	.21	1.58	11.30	40.68	C322C472K1R5CA
	100	6800pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2067-ND	.21	1.58	11.30	40.68	C322C682K1R5CA
	100	.01µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2068-ND	.19	1.42	10.18	36.63	C322C103K1R5CA
	100	.015µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2069-ND	.24	1.74	12.43	44.73	C322C153K1R5CA
	100	.022µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2070-ND	.27	2.02	14.40	51.84	C322C223K1R5CA
	100	.033µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2071-ND	.27	2.02	14.40	51.84	C322C333K1R5CA
	100	.047µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2072-ND	.34	2.49	17.80	64.08	C322C473K1R5CA
	100	.068µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2073-ND	.34	2.49	17.80	64.08	C322C683K1R5CA
	100	.1µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2074-ND	.34	2.49	17.80	64.08	C322C104K1R5CA
	200	1000pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2057-ND	.23	1.69	12.08	43.47	C322C102K2R5CA
	200	1500pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2058-ND	.25	1.85	13.23	47.61	C322C152K2R5CA
	200	2200pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2059-ND	.25	1.85	13.23	47.61	C322C222K2R5CA
	200	3300pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2060-ND	.25	1.85	13.23	47.61	C322C332K2R5CA
	200	4700pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2061-ND	.27	2.01	14.38	51.75	C322C472K2R5CA
	200	6800pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2062-ND	.27	2.01	14.38	51.75	C322C682K2R5CA
	200	.01µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2063-ND	.25	1.85	13.23	47.61	C322C103K2R5CA
	200	.015µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2064-ND	.31	2.30	16.40	59.04	C322C153K2R5CA
	200	.022µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2065-ND	.31	2.30	16.40	59.04	C322C223K2R5CA
Z5U ±20%	50	.033µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2168-ND	.18	1.33	9.50	34.20	C322C333M5U5CA
	50	.047µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2169-ND	.18	1.33	9.50	34.20	C322C473M5U5CA
	50	.068µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2170-ND	.20	1.49	10.65	38.34	C322C683M5U5CA
	50	.1µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2171-ND	.16	1.21	8.63	31.05	C322C104M5U5CA
	50	.15µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2172-ND	.24	1.73	12.38	44.55	C322C154M5U5CA
	50	.22µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2173-ND	.32	2.33	16.68	60.03	C322C224M5U5CA
	50	.33µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2174-ND	.32	2.33	16.68	60.03	C322C334M5U5CA
	50	.47µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2175-ND	.40	2.94	21.00	75.60	C322C474M5U5CA
	100	.01µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2160-ND	.17	1.25	8.93	32.13	C322C103M1U5CA
	100	.015µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2161-ND	.21	1.53	10.93	39.33	C322C153M1U5CA
	100	.022µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2162-ND	.21	1.53	10.93	39.33	C322C223M1U5CA
	100	.033µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2163-ND	.24	1.73	12.38	44.55	C322C333M1U5CA
	100	.047µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2164-ND	.24	1.73	12.38	44.55	C322C473M1U5CA
	100	.068µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2165-ND	.28	2.05	14.68	52.83	C322C683M1U5CA
	100	.1µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2166-ND	.21	1.53	10.93	39.33	C322C104M1U5CA
	100	.15µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2167-ND	.38	2.78	19.85	71.46	C322C154M1U5CA
							C330 Series					
C0G ±5%	100	3300pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1973-ND	.84	6.16	44.00	158.40	C330C332J1G5CA
	100	4700pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1974-ND	.84	6.16	44.00	158.40	C330C472J1G5CA
	100	6800pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1975-ND	.91	6.68	47.73	171.81	C330C682J1G5CA
	100	.01µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1976-ND	1.11	8.21	58.65	211.14	C330C103J1G5CA
	100	.015µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1977-ND	1.41	10.38	74.18	267.03	C330C153J1G5CA
	100	.022µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1978-ND	2.10	15.46	110.40	397.44	C330C223J1G5CA
	200	3300pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1968-ND	.94	6.92	49.45	178.02	C330C332J2G5CA
	200	4700pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1969-ND	.94	6.92	49.45	178.02	C330C472J2G5CA
	200	6800pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1970-ND	1.33	9.78	69.88	251.55	C330C682J2G5CA
	200	.01µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1971-ND	1.26	9.30	66.43	239.13	C330C103J2G5CA
	200	.015µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1972-ND	2.49	18.32	130.83	470.97	C330C153J2G5CA
X7R ±10%	50	.15µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2097-ND	.60	4.43	31.65	113.94	C330C154K5R5CA
	50	.22µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2098-ND	.77	5.68	40.60	146.16	C330C224K5R5CA
	50	.33µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2099-ND	.83	6.11	43.68	157.23	C330C334K5R5CA
	50	.47µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2100-ND	.83	6.11	43.68	157.23	C330C474K5R5CA
	50	.68µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2101-ND	1.73	12.74	91.00	327.60	C330C684K5R5CA
	50	1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2102-ND	1.40	10.31	73.65	265.14	C330C105K5R5CA
	100	.068µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2091-ND	.46	3.36	24.03	86.49	C330C683K1R5CA
	100	.1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2092-ND	.40	2.97	21.20	76.32	C330C104K1R5CA
	100	.15µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2093-ND	.62	4.59	32.78	117.99	C330C154K1R5CA
	100	.22µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2094-ND	.91	6.72	48.03	172.89	C330C224K1R5CA
	100	.33µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2095-ND	1.13	8.34	59.60	214.56	C330C334K1R5CA
	100	.47µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2096-ND	1.74	12.86	91.83	330.57	C330C474K1R5CA
	200	.015µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2084-ND	.46	3.42	24.45	88.02	C330C153K2R5CA
	200	.022µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2085-ND	.46	3.42	24.45	88.02	C330C223K2R5CA
	200	.033µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2086-ND	.46	3.42	24.45	88.02	C330C333K2R5CA
	200	.047µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2087-ND	.46	3.42	24.45	88.02	C330C473K2R5CA
	200	.056µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2088-ND	.46	3.42	24.45	88.02	C330C563K2R5CA
	200	.068µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2089-ND	.63	4.63	33.08	119.07	C330C683K2R5CA
	200	.1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2090-ND	.96	7.05	50.33	181.17	C330C104K2R5CA
Z5U ±20%	50	.33µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2181-ND	.52	3.83	27.33	98.37	C330C334M5U5CA
	50	.47µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2182-ND	.52	3.83	27.33	98.37	C330C474M5U5CA
	50	.68µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2183-ND	.72	5.27	37.68	135.63	C330C684M5U5CA
	50	1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2184-ND	.65	4.79	34.23	123.21	C330C105M5U5CA
	50	1.5µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2185-ND	1.06	7.81	55.78	200.79	C330C155M5U5CA
	50	2.2µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2186-ND	1.11	8.19	58.50	210.60	C330C225M5U5CA
	100	.1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2176-ND	.41	3.02	21.58	77.67	C330C104M1U5CA
	100	.15µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2177-ND	.48	3.54	25.30	91.08	C330C154M1U5CA
	100	.22µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2178-ND	.55	4.03	28.75	103.50	C330C224M1U5CA
	100	.33µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2179-ND	.55	4.03	28.75	103.50	C330C334M1U5CA
	100	.47µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2180-ND	.66	4.83	34.50	124.20	C330C474M1U5CA
							C340 Series					
C0G ±5%	100	.033µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1982-ND	4.53	33.39	238.50	858.60	C340C333J1G5CA
	100	.047µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1983-ND	5.06	37.25	266.10	957.96	C340C473J1G5CA
	100	.068µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1984-ND	5.67	41.75	298.20	1073.52	C340C683J1G5CA
	200	.022µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1979-ND	4.53	33.39	238.50	858.60	C340C223J2G5CA
	200	.033µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1980-ND	5.06	37.25	266.10	957.96	C340C333J2G5CA
	200	.047µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1981-ND	5.67	41.75	298.20	1073.52	C340C473J2G5CA
X7R ±10%	50	1.5µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2109-ND	3.55	26.16	186.88	672.75	C340C155K5R5CA
	50	2.2µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2110-ND	4.44	32.73	233.75	841.50	C340C225K5R5CA
	100	.47µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2106-ND	1.85	13.65	97.50	351.00	C340C474K1R5CA
	100	.68µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2107-ND	4.63	34.15	243.90	878.04	C340C684K1R5CA
	100	1µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2108-ND	4.63	34.15	243.90	878.04	C340C105K1R5CA
	200	.1µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2103-ND	1.00	7.35	52.50	189.00	C340C104K2R5CA
	200	.15µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2104-ND	4.13	30.45	217.50	783.00	C340C154K2R5CA
	200	.22µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2105-ND	4.63	34.15	243.90	878.04	C340C224K2R5CA
Z5U ±20%	50	2.2µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2191-ND	3.17	23.35	166.75	600.30	C340C225M5U5CA
	50	3.3µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2192-ND	3.96	29.18	208.45	750.42	C340C335M5U5CA
	50	4.7µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2193-ND	4.78	35.22	251.58	905.67	C340C475M5U5CA
	100	.47µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2187-ND	.66	4.83	34.50	124.20	C340C474M1U5CA
	100	.68µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2188-ND	1.78	13.08	93.45	336.42	C340C684M1U5CA
	100	1µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2189-ND	3.14	23.15	165.33	595.17	C340C105M1U5CA
	100	1.5µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2190-ND	3.82	28.18	201.25	724.50	C340C155M1U5CA

Panasonic® Interference Suppressor Capacitors X-Y Series-Metallized Film

ECQ - UN, EW, UF



ECQ - UV, UG, UL



Electrical Specifications:

- **Operating Temperature Range:** -40°C to +85°C (-40°C to +100°C for ECQ-UG/UL)
- **Capacitance Tolerance:** ±20% (M)
- **Dissipation Factor:** Less than 1.0% (at 20°C 1 kHz)

ECQ-UN Series: **Rated Voltage:** 250VAC. **Standards: UL (UL 1414);** Across-The-Line Capacitor, Antenna Coupling and Line-By-Pass Capacitors. File No. E62674. **CSA (CSA C22.2);** No. 0-M1982, No. 1-M1981. Across-The-Line, antenna-isolation and line-by-pass capacitor. File No. LR35752. **VDE (VED0565-1);** class X2 File No. 4811.6-4670-1041. **SEV (SEV1055);** class X, Ref No. 89, 5 50251,05. **DEMKO (AFSNIT21);** class X2, Ref No. 70726EC. **SEMKO (SS4430414);** class X2 Reg No. 8602146. **NEMKO (NEMKO);** class X2 Ref No. E 25082 02. **EI (E384-14);** class X2, Reg No. 062521 01~14(0.001~0.012µF), Reg No. 062522 01~15(0.015~0.22µF).

ECQ-EW Series: **Rated Voltage:** 250VAC. **Standards: UL (UL 1283);** Electromagnetic Interference Filters Class X File No. E79502. **SEMKO (SS 443 04 14);** class X2 Reg No. 8932009. **DEMKO (AFSNIT21);** class X2 Ref No. 94911EC. **VDE (VDE0565-1);** class X2 File No. 4811. 6-4670-1035.

ECQ-UF Series: **Rated Voltage:** 250VAC **Standards: SEMKO (SEMKO 101)** Reg. No. 61-88271/1-4. **DEMKO (AFSNIT 21);** class Y/X, Ref No. 61254EC. **VDE (VDE 0565-1)** class Y/X2, File No. 4811-6-1-4670-1032. **BSI (BS415);** certified No. 6026. **UL (UL1414)** Across-The-Line Capacitor & Antenna-Coupling and Line-by-pass. File No. E62674. **CSA (CSA C22.2)** No. 0-M1982, No.1-M1981, Across-The-Line, Antenna-Isolation and LIne-by-Pass Capacitor, File No. LR35752.

ECQ-UV Series: **Rated Voltage:** 250VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. File No. E62674. **(UL1283);** Electromagnetic Interference Filters, File No. E79502. **CSA (CSA C22.2);** Across-The-Line, Antenna-Isolation and Line-by-Pass Capacitor, No. 0-M1982, No. 1-M1981. **SEMKO (SS 443 04 14);** Class X2/Y Reg No. 8804123. **DEMKO (AFSNIT21);** Class X2/Y Ref No. 89275EC. **NEMKO (NEMKO 132);** Class X2 Ref No. 37892, Class Y Ref No. 37894. **EI (IEC 384/14);** Class X2/Y Reg No. 110918-01-02. **VDE (VDE 0565-1);** Class X2/Y File No. 4811.6-4670-1070. **SEV (SEV 1055);** Class X ref No. 88,1 00318,01.

ECQ-UG — Class X2 Series: **Rated Voltage:** 250/275VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by-Pass Capacitors. **SEMKO, DEMKO, NEMKO, FIMCO, VDE, SEV;** IEC384-14, 1993, EN132400, Class X2.

ECQ-UG — Class X1 Series: **Rated Voltage:** 250/300VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by-Pass Capacitors. **FIMCO and VDE;** IEC384-14, 1993, A1 - 1995, EN132400, Class X1.

ECQ-UL Series: **Rated Voltage:** 250/275VAC **Standards: UL (UL1414);** Across-The-Line Capacitors. Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. I-94);** Across-The-Line Capacitors., Antenna-Isolation and Line-by-Pass Capacitors. **VDE;** IEC384-14, 1993, EN132400, Class X2.

Voltage (VAC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Price Each			Panasonic Part No.
		L	T	H	F	dø		1	10	100	
ECQ-UN											
250	0.0047	17.0	6.5	13.5	13.5	0.6	P4600-ND†	.93	.80	.67	ECQ-U2A472MN
	0.01	17.0	7.0	14.0	13.5	0.6	P4601-ND†	.93	.80	.67	ECQ-U2A103MN
	0.047	25.5	7.0	14.0	21.5	0.6	P4602-ND†	1.18	1.01	.84	ECQ-U2A473MN
	0.1	30.5	7.5	17.01	26.5	0.8	P4603-ND†	1.44	1.24	1.03	ECQ-U2A104MN
ECQ-EW											
250	0.047	17.0	7.5	13.0	13.5	0.6	P4604-ND†	.79	.69	.57	ECQ-E2A473MW
	0.1	24.0	8.0	13.5	20.5	0.8	P4605-ND†	.95	.81	.68	ECQ-E2A104MW
	0.22	24.0	10.5	17.5	20.5	0.8	P4606-ND†	1.34	1.15	.96	ECQ-E2A224MW
	0.47	29.0	13.0	20.5	25.5	0.8	P4607-ND†	1.79	1.54	1.28	ECQ-E2A474MW
ECQ-UF											
250	0.0047	20.0	7.0	14.5	16.5	0.6	P4608-ND†	.90	.78	.65	ECQ-U2A472MF
	0.01	23.0	7.5	15.0	19.5	0.6	P4609-ND†	.95	.81	.68	ECQ-U2A103MF
ECQ-UV											
250	0.001	17.5	4.0	10.5	15.0	0.6	P4617-ND	.89	.76	.64	ECQ-U2A102MV
	0.0012	17.5	4.0	10.5	15.0	0.6	P4618-ND	.89	.76	.64	ECQ-U2A122MV
	0.0015	17.5	4.0	10.5	15.0	0.6	P4619-ND	.89	.76	.64	ECQ-U2A152MV
	0.0018	17.5	4.0	10.5	15.0	0.6	P4620-ND	.89	.76	.64	ECQ-U2A182MV
	0.0022	17.5	4.0	10.5	15.0	0.6	P4621-ND	.89	.76	.64	ECQ-U2A222MV
	0.0027	17.5	4.0	10.5	15.0	0.6	P4622-ND	.89	.76	.64	ECQ-U2A272MV
	0.0033	17.5	4.0	10.5	15.0	0.6	P4623-ND	.89	.76	.64	ECQ-U2A332MV
	0.0039	17.5	4.0	10.5	15.0	0.6	P4624-ND	.89	.76	.64	ECQ-U2A392MV
	0.0047	17.5	4.0	10.5	15.0	0.6	P4625-ND	.89	.76	.64	ECQ-U2A472MV
	0.0056	17.5	4.0	10.5	15.0	0.6	P4626-ND	.89	.76	.64	ECQ-U2A562MV
	0.0068	17.5	4.0	10.5	15.0	0.6	P4627-ND	.89	.76	.64	ECQ-U2A682MV
	0.0082	17.5	4.0	10.5	15.0	0.6	P4628-ND	.89	.76	.64	ECQ-U2A822MV
	0.01	17.5	4.0	10.5	15.0	0.6	P4629-ND	.89	.76	.64	ECQ-U2A103MV
	0.012	17.5	4.0	10.5	15.0	0.6	P4630-ND	.89	.76	.64	ECQ-U2A123MV
	0.015	17.5	4.0	10.5	15.0	0.6	P4631-ND	.91	.79	.66	ECQ-U2A153MV
	0.018	17.5	4.5	10.5	15.0	0.6	P4632-ND	.93	.80	.67	ECQ-U2A183MV
	0.022	17.5	4.5	10.5	15.0	0.6	P4633-ND	.95	.82	.68	ECQ-U2A223MV
	0.027	17.5	4.5	13.0	15.0	0.6	P4634-ND	.97	.84	.70	ECQ-U2A273MV
	0.033	17.5	4.5	13.0	15.0	0.6	P4635-ND	1.00	.87	.72	ECQ-U2A333MV
	0.039	17.5	5.5	12.5	15.0	0.6	P4636-ND	1.02	.88	.73	ECQ-U2A393MV
	0.047	17.5	5.5	12.5	15.0	0.6	P4637-ND	1.04	.90	.75	ECQ-U2A473MV
	0.056	17.5	7.0	14.0	15.0	0.6	P4638-ND	1.08	.93	.78	ECQ-U2A563MV
	0.068	17.5	7.0	14.0	15.0	0.6	P4639-ND	1.14	.98	.82	ECQ-U2A683MV
	0.082	17.5	8.0	15.0	15.0	0.6	P4640-ND	1.17	1.01	.84	ECQ-U2A823MV
	0.1	17.5	8.0	15.0	15.0	0.8	P4610-ND	1.10	.95	.79	ECQ-U2A104MV
	0.12	25.5	6.5	16.5	22.5	0.6	P4641-ND	1.31	1.13	.94	ECQ-U2A124MV
	0.15	25.5	6.5	16.5	22.5	0.8	P4611-ND	1.41	1.22	1.01	ECQ-U2A154MV
	0.18	25.5	8.5	17.0	22.5	0.6	P4642-ND	1.51	1.29	1.08	ECQ-U2A184MV
	0.22	25.5	8.5	17.0	22.5	0.8	P4612-ND	1.48	1.27	1.06	ECQ-U2A224MV
	0.27	30.5	10.0	18.0	27.5	0.6	P4643-ND	2.07	1.78	1.48	ECQ-U2A274MV
	0.33	30.5	10.0	18.0	27.5	0.8	P4613-ND	2.44	2.10	1.75	ECQ-U2A334MV
	0.39	30.5	12.0	20.0	27.5	0.6	P4644-ND	2.71	2.33	1.94	ECQ-U2A394MV
	0.47	30.5	12.0	20.0	27.5	0.8	P4614-ND	2.49	2.14	1.78	ECQ-U2A474MV
	0.56	30.5	13.5	23.5	27.5	0.6	P4645-ND	3.13	2.69	2.24	ECQ-U2A564MV
	0.68	30.5	13.5	23.5	27.5	0.8	P4615-ND	3.40	2.91	2.43	ECQ-U2A684MV
	0.82	30.5	16.5	26.5	27.5	0.6	P4646-ND	3.88	3.33	2.77	ECQ-U2A824MV
	1.0	30.5	16.5	26.5	27.5	0.8	P4616-ND	3.77	3.24	2.70	ECQ-U2A105MV
ECQ-UG — Class X2											
250/ 275	0.033	15.0	6.0	13.0	12.5	0.60	P10520-ND	.94	.81	.64	ECQ-U2A333MG
	0.047	15.0	6.0	13.0	12.5	0.60	P10521-ND	.97	.84	.66	ECQ-U2A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P10522-ND	1.07	.92	.72	ECQ-U2A683MG
	0.1	15.0	8.0	16.5	12.5	0.60	P10523-ND	1.07	.93	.73	ECQ-U2A104MG
	0.1	17.5	6.0	15.0	15.0	0.80	P10524-ND	.91	.78	.61	ECQ-U2A104BC1

Voltage (VAC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Price Each			Panasonic Part No.
		L	T	H	F	dø		1	10	100	
250/ 275	0.15	17.5	8.0	16.5	15.0	0.80	P10525-ND	1.34	1.15	.90	ECQ-U2A154MG
	0.22	17.5	9.0	17.5	15.0	0.80	P10526-ND	1.39	1.19	.94	ECQ-U2A224MG
	0.33	25.5	9.0	18.5	22.5	0.80	P10527-ND	2.30	1.97	1.55	ECQ-U2A334MG
	0.47	25.5	10.5	20.0	22.5	0.80	P10528-ND	2.35	2.01	1.58	ECQ-U2A474MG
	0.68	25.5	12.5	22.0	22.5	0.80	P10529-ND	3.19	2.74	2.15	ECQ-U2A684MG
	1.0	25.5	15.5	24.5	22.5	0.80	P10530-ND	3.55	3.05	2.39	ECQ-U2A105MG
ECQ-UG — Class X1											
250/ 300	0.01	15.0	5.0	11.5	12.5	0.60	P11110-ND	.37	.32	.25	ECQ-U3A103MG
	0.015	15.0	5.0	11.5	12.5	0.60	P11111-ND	.37	.32	.25	ECQ-U3A153MG
	0.022	15.0	5.0	11.5	12.5	0.60	P11112-ND	.37	.32	.25	ECQ-U3A223MG
	0.033	15.0	6.0	13.0	12.5	0.60	P11113-ND	.37	.32	.25	ECQ-U3A333MG
	0.047	15.0	6.0	13.0	12.5	0.60	P11114-ND	.37	.32	.25	ECQ-U3A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P11115-ND	.37	.32	.25	ECQ-U3A683MG
	0.1	15.0	8.0	15.0	12.5	0.60	P11116-ND	.37	.32	.25	ECQ-U3A104MG
	0.15	17.5	8.0	16.5	15.0	0.80	P11117-ND	.51	.44	.35	ECQ-U3A154MG
	0.22	17.5	9.0	17.5	15.0	0.80	P11118-ND	.61	.53	.42	ECQ-U3A224MG
	0.33	25.5	9.0	18.5	22.5	0.80	P11119-ND	.92	.79	.62	ECQ-U3A334MG
	0.47	25.5	10.5	20.0	22.5	0.80	P11120-ND	1.22	1.05	.83	ECQ-U3A474MG
	0.68	25.5	12.5	22.0	22.5	0.80	P11121-ND	1.63	1.40	1.10	ECQ-U3A684MG
	1.0	27.0	16.5	25.5	22.5	0.80	P11122-ND	2.03	1.75	1.37	ECQ-U3A105MG
ECQ-UL											
250/ 275	0.001	15.0	5.0	11.5	12.5	0.60	P10988-ND	.20	.18	.14	ECQ-U2A102ML
	0.0012	15.0	5.0	11.5	12.5	0.60	P10989-ND	.20	.18	.14	ECQ-U2A122ML
	0.0015	15.0	5.0	11.5	12.5	0.60	P10990-ND	.20	.18	.14	ECQ-U2A152ML
	0.0018	15.0	5.0	11.5	12.5	0.60	P10991-ND	.20	.18	.14	ECQ-U2A182ML
	0.0022	15.0	5.0	11.5	12.5	0.60	P10992-ND	.20	.18	.14	ECQ-U2A222ML
	0.0027	15.0	5.0	11.5	12.5	0.60	P10993-ND	.20	.18	.14	ECQ-U2A272ML
	0.0033	15.0	5.0	11.5	12.5	0.60	P10994-ND	.20	.18	.14	ECQ-U2A332ML
	0.0039	15.0	5.0	11.5	12.5	0.60	P10995-ND	.20	.18	.14	ECQ-U2A392ML
	0.0047	15.0	5.0	11.5	12.5	0.60	P10996-ND	.20	.18	.14	ECQ-U2A472ML
	0.0056	15.0	5.0	11.5	12.5	0.60	P10997-ND	.20	.18	.14	ECQ-U2A562ML
	0.0068	15.0	5.0	11.5	12.5	0.60	P10998-ND	.20	.18	.14	ECQ-U2A682ML
	0.0082	15.0	5.0	11.5	12.5	0.60	P10999-ND	.20	.18	.14	ECQ-U2A822ML
	0.01	15.0	5.0	11.5	12.5	0.60	P10724-ND	.20	.18	.14	ECQ-U2A103ML
	0.012	15.0	5.0	11.5	12.5	0.60	P11000-ND	.20	.18	.14	ECQ-U2A123ML
	0.015	15.0	5.0	11.5	12.5	0.60	P10725-ND	.20	.18	.14	ECQ-U2A153ML
	0.018	15.0	5.0	13.0	12.5	0.60	P11001-ND	.20	.18	.14	ECQ-U2A183ML
	0.022	15.0	5.0	11.5	12.5	0.60	P10726-ND	.20	.18	.14	ECQ-U2A223ML
	0.027	15.0	5.0	11.5	12.5	0.60	P11002-ND	.20	.18	.14	ECQ-U2A273ML
	0.033	15.0	6.0	13.0	12.5	0.60	P10727-ND	.20	.18	.14	ECQ-U2A333ML
	0.039	15.0	6.0	13.0	12.5	0.60	P11003-ND	.20	.18	.14	ECQ-U2A393ML
	0.047	15.0	6.0	13.0	12.5	0.60	P10728-ND	.20	.18	.14	ECQ-U2A473ML
	0.056	17.5	4.5	11.5	15.0	0.60	P11004-ND	.20	.18	.14	ECQ-U2A563ML
	0.068	17.5	4.5	11.5	15.0	0.60	P10729-ND	.20	.18	.14	ECQ-U2A683ML
	0.082	17.5	5.5	12.0	15.0	0.60	P11005-ND	.20	.18	.14	ECQ-U2A823ML
	0.1	17.5	5.5	12.0	15.0	0.60	P10730-ND	.20	.18	.14	ECQ-U2A104ML
	0.12	17.5	6.5	14.5	15.0	0.60	P11006-ND	.21	.19	.15	ECQ-U2A124ML
	0.15	17.5	6.5	14.5	15.0	0.60	P10731-ND	.23	.20	.16	ECQ-U2A154ML
	0.18	17.5	8.0	16.0	15.0	0.60	P11007-ND	.26	.22	.18	ECQ-U2A184ML
	0.22	17.5	8.0	16.0	15.0	0.60	P10732-ND	.28	.24	.19	ECQ-U2A224ML
	0.27	17.5	9.5	17.5	15.0	0.80	P11008-ND	.33	.28	.22	ECQ-U2A274ML
	0.33	17.5	9.5	17.5	15.0	0.80	P10733-ND	.37	.32	.25	ECQ-U2A334ML
	0.39	25.5	8.5	17.5	22.5	0.80	P11009-ND	.42	.36	.29	ECQ-U2A394ML
	0.47	25.5	8.5	17.5	22.5	0.80	P10734-ND	.47	.40	.32	ECQ-U2A474ML
	0.56	25.5	10.5	19.5	22.5	0.80	P11010-ND	.58	.50	.40	ECQ-U2A564ML
	0.68	25.5	10.5	19.5	22.5	0.80	P10735-ND	.69	.59	.47	ECQ-U2A684ML
	0.82	25.5	12.5	22.0	22.5	0.80	P11011-ND	.72	.63	.49	ECQ-U2A824ML
	1.0	25.5	12.0	22.0	22.5	0.80	P10736-ND	.76	.66	.52	ECQ-U2A105ML
	1.2	30.5	16.5	26.5	27.5	0.80	P11012-ND	.92	.79	.62	ECQ-U2A125ML
	1.5	30.5	16.5	26.5	27.5	0.80	P10737-ND	1.07	.92	.72	ECQ-U2A155ML
	1.8	30.5	19.0	29.5	27.5	0.80	P11013-ND	1.17	1.01	.79	ECQ-U2A185ML
	2.2	30.5	19.0	29.5	27.5	0.80	P10738-ND	1.27	1.10	.86	ECQ-U2A225ML

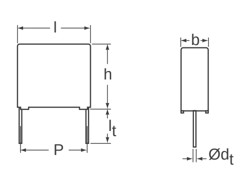
† P4650-KIT-ND ***Digi-Key® X-Y Series Capacitors Kit*** 10 each of all values denoted. (100 pcs.) Notebook style box included. **$59.95**

Interference Suppression Film Capacitors MKP 338 X1 and MKP 338 X2

Features: • Consists of a low-inductive wound cell of metallized polypropylene film, potted in a flame-retardant case **X1 Applications:** • For X1 electromagnetic interference suppression • Specially designed to meet the requirements of the “IEC 60384-14 2nd edition and EN 132400”, requiring a 4kV peak pulse voltage test UL1414 and CSA-C22.2 No. 1 specifications **X2 Applications:** • For X2 electromagnetic interference suppression • Specially designed to meet the requirements of the “IEC 60384-14 2nd edition and EN 132400”, requiring for X2 a 2.5kV peak pulse voltage test and both UL1414 and CSA-C22.2 No. 1 specifications **X1 Specifications: Rated (AC) Voltage, 50 to 60Hz:** 440V **Rated (DC) Voltage:** 1000V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X1; across the line **X2 Specifications: Rated (AC) Voltage, 50 to 60Hz:** 275V **Rated (DC) Voltage:** 630V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X2 across the line

Safety Approvals (X1)		Voltage	Value	File Numbers
	UL1414	250V (AC)	10nF to 1µF	E112471
	UL1283 and CSA 22.2.8	440V (AC)	10nF to 1µF	Pending
	EN132400	440V (AC)	10nF to 1µF	ENEC/B04/2001

Safety Approvals (X2)		Voltage	Value	File Numbers
	UL1414	250V (AC)	1nF to 1µF	E112471
	UL1283	305V (AC)	1nF to 3.3µF	E109565
	CSA-C22.2 No. 1	250V (AC)	1nF to 1µF	1087424 (LR94054-15)
	CSA-C22.2 No. 8	275V (AC)	1nF to 3.3µF	1078568
	CCEE	275V (AC)	1nF to 3.3µF	CH0038043-99
	EN132400	275V (AC)	1nF to 3.3µF	ENEC/B05/2001



Volt-age	Cap. (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
MKP 338 X1 Series (±20% Tolerance)												
440 (AC)	.01	5.0	11.0	17.5	15.0	3.5	.60	BC1574-ND	.66	.57	.38	2222 338 10103
	.01	5.0	11.0	17.5	15.0	25.0	.60	BC1587-ND	.66	.57	.38	2222 338 14103
	.015	5.0	11.0	17.5	15.0	3.5	.60	BC1577-ND	.67	.58	.39	2222 338 10153
	.015	5.0	11.0	17.5	15.0	25.0	.60	BC1590-ND	.67	.58	.39	2222 338 14153
	.022	5.0	11.0	17.5	15.0	3.5	.60	BC1579-ND	.68	.58	.39	2222 338 10223
	.022	5.0	11.0	17.5	15.0	25.0	.60	BC1592-ND	.68	.58	.39	2222 338 14223
	.033	6.0	12.0	17.5	15.0	3.5	.60	BC1581-ND	.58	.50	.34	2222 338 10333
	.033	6.0	12.0	17.5	15.0	25.0	.60	BC1594-ND	.58	.50	.34	2222 338 14333
	.047	7.0	13.5	17.5	15.0	3.5	.80	BC1583-ND	.59	.51	.34	2222 338 10473
	.047	7.0	13.5	17.5	15.0	25.0	.80	BC1596-ND	.59	.51	.34	2222 338 14473
	.068	8.5	15.0	17.5	15.0	3.5	.80	BC1585-ND	.61	.53	.35	2222 338 10683
	.068	8.5	15.0	17.5	15.0	25.0	.80	BC1598-ND	.61	.53	.35	2222 338 14683
	.10	10.0	16.5	17.5	15.0	3.5	.80	BC1575-ND	.66	.57	.38	2222 338 10104
	.10	10.0	16.5	17.5	15.0	25.0	.80	BC1588-ND	.66	.57	.38	2222 338 14104
	.15	8.5	18.0	26.0	22.5	3.5	.80	BC1578-ND	.78	.67	.45	2222 338 10154
	.15	8.5	18.0	26.0	22.5	25.0	.80	BC1591-ND	.78	.67	.45	2222 338 14154
	.22	10.0	19.5	26.0	22.5	3.5	.80	BC1580-ND	.93	.80	.54	2222 338 10224
	.22	10.0	19.5	26.0	22.5	25.0	.80	BC1593-ND	.93	.80	.54	2222 338 14224
	.33	13.0	23.0	31.0	27.5	3.5	.80	BC1582-ND	1.05	.91	.61	2222 338 10334
	.33	13.0	23.0	31.0	27.5	25.0	.80	BC1595-ND	1.05	.91	.61	2222 338 14334
	.47	15.0	25.0	31.0	27.5	3.5	.80	BC1584-ND	.66	.57	.38	2222 338 10474
	.47	15.0	25.0	31.0	27.5	25.0	.80	BC1597-ND	.66	.57	.38	2222 338 14474
	.68	18.0	28.0	31.0	27.5	3.5	.80	BC1586-ND	2.22	1.91	1.27	2222 338 10684
	1.0	21.0	31.0	31.0	27.5	3.5	.80	BC1576-ND	2.78	2.39	1.60	2222 338 10105
	1.0	21.0	31.0	31.0	27.5	25.0	.80	BC1589-ND	2.78	2.39	1.60	2222 338 14105

Volt-age	Cap. (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
MKP 338 X2 Series (±20% Tolerance)												
275 (AC)	.001	4.0	9.0	10.0	7.5	3.5	.50	BC1599-ND	.30	.26	.18	2222 338 20102
	.0015	4.0	9.0	10.0	7.5	3.5	.50	BC1603-ND	.30	.26	.18	2222 338 20152
	.0022	4.0	9.0	10.0	7.5	3.5	.50	BC1607-ND	.33	.28	.19	2222 338 20222
	.0033	4.0	9.0	10.0	7.5	3.5	.50	BC1611-ND	.35	.30	.20	2222 338 20332
	.0047	4.0	9.0	10.0	7.5	3.5	.50	BC1615-ND	.36	.32	.21	2222 338 20472
	.0068	4.0	9.0	10.0	7.5	3.5	.50	BC1618-ND	.39	.34	.23	2222 338 20682
	.01	4.0	9.0	10.0	7.5	3.5	.50	BC1600-ND	.40	.35	.24	2222 338 20103
	.015	4.0	9.0	10.0	7.5	3.5	.50	BC1604-ND	.41	.36	.24	2222 338 20153
	.022	4.0	9.0	10.0	7.5	3.5	.50	BC1608-ND	.42	.36	.24	2222 338 20223
	.033	5.0	10.5	10.0	7.5	3.5	.50	BC1612-ND	.36	.31	.21	2222 338 20333
	.047	6.0	11.5	10.0	7.5	3.5	.50	BC1616-ND	.36	.32	.21	2222 338 20473
	.068	6.0	12.0	12.5	10.0	3.5	.60	BC1619-ND	.37	.33	.22	2222 338 20683
	.10	6.0	12.0	12.5	10.0	3.5	.60	BC1601-ND	.40	.35	.23	2222 338 20104
	.15	7.0	13.5	17.5	15.0	3.5	.80	BC1605-ND	.42	.37	.25	2222 338 20154
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC1609-ND	.54	.47	.31	2222 338 20224
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC1613-ND	.61	.53	.35	2222 338 20334
	.47	8.5	18.0	26.0	22.5	3.5	.80	BC1617-ND	.96	.83	.56	2222 338 20474
	.68	10.0	19.5	26.0	22.5	3.5	.80	BC1620-ND	1.29	1.11	.74	2222 338 20684
	1.0	12.0	22.0	26.0	22.5	3.5	.80	BC1602-ND	1.62	1.39	.93	2222 338 20105
	1.5	15.0	25.0	31.0	27.5	3.5	.80	BC1606-ND	2.14	1.84	1.23	2222 338 20155
	2.2	18.0	28.0	31.0	27.5	3.5	.80	BC1610-ND	2.60	2.23	1.49	2222 338 20225
	3.3	21.0	31.0	31.0	27.5	3.5	.80	BC1614-ND	3.83	3.29	2.20	2222 338 20335

Monolithic Ceramic Capacitors Type C0G, X7R, Z5U

Features:

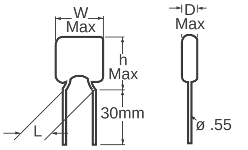
- High capacitance per unit volume
- Suitable for automatic assembly in accordance with IEC standard
- High reliability and damp heat resistance
- Non-polar
- Low-loss
- Pulse strength

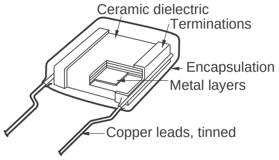
Applications:

- Data processing
- Communications engineering
- Measuring and control equipment
- Photo industry
- Entertainment industry
- Medical engineering
- Automotive electronic systems

Temperature Range:

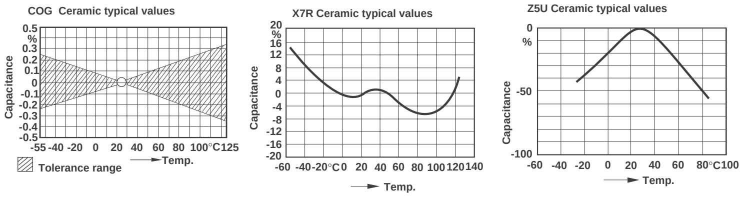
C0G/X7R: -55 to +125°C
Z5U: -25 to +85°C





Marking: Rated capacitance, tolerance, manufacturer's logo, ceramic material, voltage

Capacitance Change vs. Temperature



Type	VDC	Cap.	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
			W*	D*	H*	L		1	10	100	500	1,000	5,000	
C0G ±5%	50	100pf	5.0	2.5	5.5	2.5	P4925-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S1H101JCA
	50	120pf	5.0	2.5	5.5	2.5	P4926-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S1H121JCA
	50	150pf	5.0	2.5	5.5	2.5	P4927-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S1H151JCA
	50	180pf	5.0	2.5	5.5	2.5	P4928-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S1H181JCA
	50	220pf	5.0	2.5	5.5	2.5	P4929-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S1H221JCA
	50	270pf	5.0	2.5	5.5	2.5	P4930-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S1H271JCA
	50	330pf	5.0	2.5	5.5	2.5	P4931-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S1H331JCA
	50	390pf	5.0	2.5	5.5	2.5	P4932-ND	.44	3.00	21.19	73.20	115.58	100.17/M	ECU-S1H391JCA
	50	470pf	5.0	2.5	5.5	2.5	P4933-ND	.44	3.00	21.19	73.20	115.58	100.17/M	ECU-S1H471JCA
	50	560pf	5.0	2.5	5.5	2.5	P4934-ND	.44	3.00	21.19	73.20	115.58	100.17/M	ECU-S1H561JCA
	50	680pf	5.0	3.1	6.5	5.0	P4935-ND	.46	3.38	24.15	86.94	135.24	125.58/M	ECU-S1H681JCB
	50	820pf	5.0	3.1	6.5	5.0	P4936-ND	.46	3.38	24.15	86.94	135.24	125.58/M	ECU-S1H821JCB
	50	1000pf	5.0	3.1	6.5	5.0	P4937-ND	.46	3.38	24.15	86.94	135.24	125.58/M	ECU-S1H102JCB
	50	1200pf	5.0	3.1	6.5	5.0	P4938-ND	.55	4.07	29.04	104.54	162.61	151.00/M	ECU-S1H122JCB
	50	1500pf	5.0	3.1	6.5	5.0	P4939-ND	.55	4.07	29.04	104.54	162.61	151.00/M	ECU-S1H152JCB

* Max Dimensions. Actual Dimensions may be smaller.

(Continued)

Panasonic Monolithic Ceramic Capacitors *(Cont.)*

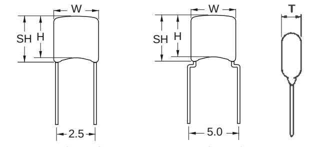
Type	VDC	Cap.	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
			W*	D*	H*	L		1	10	100	500	1,000	5,000	
C0G ±5%	50	1800pf	5.0	3.1	6.5	5.0	P4940-ND	.68	4.99	35.65	128.34	199.64	185.38/M	ECU-S1H182JCB
	50	2200pf	5.0	3.1	6.5	5.0	P4941-ND	.68	4.99	35.65	128.34	199.64	185.38/M	ECU-S1H222JCB
	50	2700pf	5.0	3.1	6.5	5.0	P4942-ND	.82	6.07	44.59	161.29	256.16	246.68/M	ECU-S1H272JCB
	50	3300pf	5.0	3.1	6.5	5.0	P4943-ND	.82	6.07	44.59	161.29	256.16	246.68/M	ECU-S1H332JCB
	50	4700pf	5.0	3.1	6.5	5.0	P4944-ND	1.00	7.43	54.59	197.46	313.61	301.99/M	ECU-S1H472JCB
	50	5600pf	7.5	3.8	9.0	5.0	P4945-ND	1.63	12.21	91.60	325.68	541.44	521.09/M	ECU-S1H562JCB
	50	6800pf	7.5	3.8	9.0	5.0	P4946-ND	1.63	12.21	91.60	325.68	541.44	521.09/M	ECU-S1H682JCB
	50	8200pf	7.5	3.8	9.0	5.0	P4947-ND	1.92	14.42	108.16	384.56	639.33	615.30/M	ECU-S1H822JCB
	50	.01µf	7.5	3.8	9.0	5.0	P4948-ND	1.92	14.42	108.16	384.56	639.33	615.30/M	ECU-S1H103JCB
	100	10pf	5.0	2.5	5.5	2.54	P4837-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A100JCA
	100	12pf	5.0	2.5	5.5	2.54	P4838-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A120JCA
	100	15pf	5.0	2.5	5.5	2.54	P4839-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A150JCA
	100	18pf	5.0	2.5	5.5	2.54	P4840-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A180JCA
	100	22pf	5.0	2.5	5.5	2.54	P4841-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A220JCA
	100	27pf	5.0	2.5	5.5	2.54	P4842-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A270JCA
	100	33pf	5.0	2.5	5.5	2.54	P4843-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A330JCA
	100	39pf	5.0	2.5	5.5	2.54	P4844-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A390JCA
	100	47pf	5.0	2.5	5.5	2.54	P4845-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A470JCA
	100	56pf	5.0	2.5	5.5	2.54	P4846-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A560JCA
	100	68pf	5.0	2.5	5.5	2.54	P4847-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A680JCA
	100	82pf	5.0	2.5	5.5	2.54	P4848-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A820JCA
	100	100pf	5.0	2.5	5.5	2.54	P4849-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A101JCA
	100	120pf	5.0	2.5	5.5	2.54	P4850-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A121JCA
	100	150pf	5.0	2.5	5.5	2.54	P4851-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A151JCA
	100	180pf	5.0	2.5	5.5	2.54	P4852-ND	.38	2.56	18.03	62.27	98.33	85.22/M	ECU-S2A181JCA
	100	220pf	5.0	3.1	6.5	5.08	P4853-ND	.50	3.41	24.04	83.03	131.10	113.62/M	ECU-S2A221JCB
	100	270pf	5.0	3.1	6.5	5.08	P4854-ND	.50	3.41	24.04	83.03	131.10	113.62/M	ECU-S2A271JCB
	100	330pf	5.0	3.1	6.5	5.08	P4855-ND	.50	3.41	24.04	83.03	131.10	113.62/M	ECU-S2A331JCB
	100	390pf	5.0	3.1	6.5	5.08	P4856-ND	.50	3.41	24.04	83.03	131.10	113.62/M	ECU-S2A391JCB
	100	470pf	5.0	3.1	6.5	5.08	P4857-ND	.50	3.41	24.04	83.03	131.10	113.62/M	ECU-S2A471JCB
	100	560pf	5.0	3.1	6.5	5.08	P4858-ND	.49	3.62	25.88	93.15	144.90	134.55/M	ECU-S2A561JCB
	100	680pf	5.0	3.1	6.5	5.08	P4859-ND	.49	3.62	25.88	93.15	144.90	134.55/M	ECU-S2A681JCB
	100	820pf	5.0	3.1	6.5	5.08	P4860-ND	.57	4.23	30.19	108.68	169.05	156.98/M	ECU-S2A821JCB
	100	1000pf	5.0	3.1	6.5	5.08	P4861-ND	.57	4.23	30.19	108.68	169.05	156.98/M	ECU-S2A102JCB
	100	1200pf	5.0	3.1	6.5	5.08	P4862-ND	.69	5.07	36.23	130.41	202.86	188.37/M	ECU-S2A122JCB
	100	1500pf	5.0	3.1	6.5	5.08	P4863-ND	.69	5.07	36.23	130.41	202.86	188.37/M	ECU-S2A152JCB
	100	1800pf	7.5	3.8	9.0	5.08	P4864-ND	1.25	9.31	68.37	247.31	392.78	378.24/M	ECU-S2A182JCB
	100	2200pf	7.5	3.8	9.0	5.08	P4865-ND	1.25	9.31	68.37	247.31	392.78	378.24/M	ECU-S2A222JCB
	100	.018µf	10.0	5.0	11.5	5.08	P4876-ND	3.84	29.09	219.52	823.20	1427.00	1383.00/M	ECU-S2A183JCB
X7R ±10%	50	3300pf	5.0	2.5	5.5	2.5	P4949-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S1H332KBA
	50	4700pf	5.0	2.5	5.5	2.5	P4950-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S1H472KBA
	50	6800pf	5.0	2.5	5.5	2.5	P4951-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S1H682KBA
	50	.010µf	5.0	2.5	5.5	2.5	P4922-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S1H103KBA
	50	.015µf	5.0	2.5	5.5	2.5	P4952-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S1H153KBA
	50	.022µf	5.0	2.5	5.5	2.5	P4953-ND	.40	2.69	18.98	65.55	103.50	89.70/M	ECU-S1H223KBA
	50	.033µf	5.0	2.5	5.5	5.0	P4954-ND	.49	3.32	23.40	80.85	127.65	110.63/M	ECU-S1H333KBB
	50	.047µf	5.0	2.5	5.5	5.0	P4955-ND	.49	3.32	23.40	80.85	127.65	110.63/M	ECU-S1H473KBB
	50	.068µf	5.0	2.5	5.5	5.0	P4956-ND	.48	3.54	25.30	91.08	141.68	131.56/M	ECU-S1H683KBB
	50	.10µf	5.0	2.5	5.5	5.0	P4923-ND	.55	4.07	29.04	104.54	162.61	151.00/M	ECU-S1H104KBB
	50	.15µf	5.0	2.5	5.5	5.0	P4957-ND	.65	4.78	34.16	122.98	191.30	177.64/M	ECU-S1H154KBB
	50	.22µf	7.5	3.8	9.0	5.0	P4958-ND	1.18	8.80	64.59	233.62	371.05	357.31/M	ECU-S1H224KBB
	50	.33µf	7.5	3.8	9.0	5.0	P4959-ND	1.45	10.82	79.45	287.39	456.44	439.53/M	ECU-S1H334KBB
	50	.47µf	7.5	3.8	9.0	5.0	P4960-ND	1.74	13.08	98.07	348.68	579.68	557.89/M	ECU-S1H474KBB
	50	.68µf	7.5	3.8	9.0	5.0	P4961-ND	2.42	18.11	135.84	483.00	802.99	772.80/M	ECU-S1H684KBB
	50	1.0µf	10.0	5.0	11.5	5.0	P4962-ND	3.12	23.59	178.02	667.58	1157.13	1121.53/M	ECU-S1H105KBB
	63	.15µf	5.0	2.5	5.5	5.08	P4888-ND	.58	4.27	30.51	109.84	171.00	159.00/M	ECU-S1J154KBB
	100	470pf	5.0	2.5	5.5	2.54	P4896-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S2A471KBA
	100	680pf	5.0	2.5	5.5	2.54	P4897-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S2A681KBA
	100	1000pf	5.0	2.5	5.5	2.54	P4898-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S2A102KBA
	100	1500pf	5.0	2.5	5.5	2.54	P4899-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S2A152KBA
	100	2200pf	5.0	2.5	5.5	2.54	P4900-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S2A222KBA
	100	3300pf	5.0	2.5	5.5	2.54	P4901-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S2A332KBA
	100	4700pf	5.0	2.5	5.5	2.54	P4902-ND	.35	2.38	16.76	57.90	91.43	79.24/M	ECU-S2A472KBA
	100	6800pf	5.0	3.1	6.5	2.54	P4903-ND	.44	3.00	21.19	73.20	115.58	100.17/M	ECU-S2A682KBA
	100	.010µf	5.0	3.1	6.5	2.54	P4904-ND	.44	3.00	21.19	73.20	115.58	100.17/M	ECU-S2A103KBA
	100	.015µf	5.0	3.1	6.5	2.54	P4905-ND	.44	3.00	21.19	73.20	115.58	100.17/M	ECU-S2A153KBA
	100	.022µf	5.0	3.1	6.5	2.54	P4906-ND	.48	3.23	22.77	78.66	124.20	107.64/M	ECU-S2A223KBA
	100	.033µf	5.0	3.1	6.5	2.54	P4907-ND	.54	3.68	25.93	89.59	141.45	122.59/M	ECU-S2A333KBA
	100	.047µf	5.0	3.1	6.5	2.54	P4908-ND	.51	3.78	27.03	97.29	151.34	140.53/M	ECU-S2A473KBA
	100	.068µf	5.0	3.1	6.5	2.54	P4909-ND	.60	4.39	31.34	112.82	175.49	162.96/M	ECU-S2A683KBA
	100	.10µf	5.0	3.1	6.5	2.54	P4910-ND	.74	5.47	39.10	140.76	218.96	203.32/M	ECU-S2A104KBA
	100	.15µf	7.5	3.8	9.0	5.08	P4911-ND	1.24	9.20	67.56	244.38	388.13	373.75/M	ECU-S2A154KBB
Z5U ±20%	50	.010µf	5.0	2.5	5.5	2.5	P4963-ND	.32	2.15	15.18	52.44	82.80	71.76/M	ECU-S1H103MEA
	50	.022µf	5.0	2.5	5.5	2.5	P4964-ND	.32	2.15	15.18	52.44	82.80	71.76/M	ECU-S1H223MEA
	50	.047µf	5.0	2.5	5.5	2.5	P4965-ND	.37	2.51	17.71	61.18	96.60	83.72/M	ECU-S1H473MEA
	50	.10µf	5.0	3.1	6.5	2.5	P4924-ND	.43	2.92	20.56	71.01	112.13	97.18/M	ECU-S1H104MEA
	50	.22µf	5.0	3.1	6.5	2.5	P4966-ND	.55	4.07	29.04	104.54	162.61	151.00/M	ECU-S1H224MEA
	50	.47µf	7.5	3.8	9.0	5.0	P4967-ND	.99	7.36	54.05	195.50	310.50	299.00/M	ECU-S1H474MEB
	50	1.0µf	7.5	3.8	9.0	5.0	P4968-ND	1.44	10.71	78.64	284.45	451.78	435.05/M	ECU-S1H105MEB
	50	2.2µf	10.0	5.0	11.5	5.0	P4969-ND	3.24	24.56	185.38	695.18	1204.97	1167.90/M	ECU-S1H225MEB

* Max Dimensions. Actual Dimensions may be smaller.

Mono-Kap™ Leaded Ceramic Multilayer Capacitors

These conformally coated radial leaded capacitors are designed for commercial and industrial applications, such as: timing, coupling/decoupling, signal comparison and biasing.

Size Code	Dimensions (mm)			SH Max.	
	W Max.	H Max.	T Max.	2.5mm LS	5.08mm LS
15	4.0	4.0	2.5	5.58	6.5
20	5.0	5.0	3.2	6.58	7.5

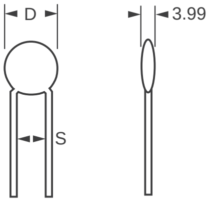


2.5mm Lead Spacing 5.08mm Lead Spacing

Cap. Value	Size Code	LS	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape & Reel Pricing	BC Components Part No.
Type COG 50V ±5%								
10 pf	15	2.54	BC1001CT-ND	.11	.08	BC1001TR-ND	144.00/4000	K100J15C0GF5TL2
12 pf	15	2.54	BC1002CT-ND	.11	.08	BC1002TR-ND	144.00/4000	K120J15C0GF5TL2
15 pf	15	2.54	BC1003CT-ND	.11	.08	BC1003TR-ND	144.00/4000	K150J15C0GF5TL2
18 pf	15	2.54	BC1004CT-ND	.11	.08	BC1004TR-ND	144.00/4000	K180J15C0GF5TL2
22 pf	15	2.54	BC1005CT-ND	.11	.08	BC1005TR-ND	144.00/4000	K220J15C0GF5TL2
27 pf	15	2.54	BC1006CT-ND	.11	.08	BC1006TR-ND	144.00/4000	K270J15C0GF5TL2
33 pf	15	2.54	BC1007CT-ND	.11	.08	BC1007TR-ND	144.00/4000	K330J15C0GF5TL2
39 pf	15	2.54	BC1008CT-ND	.11	.08	BC1008TR-ND	144.00/4000	K390J15C0GF5TL2
47 pf	15	2.54	BC1009CT-ND	.11	.08	BC1009TR-ND	144.00/4000	K470J15C0GF5TL2
56 pf	15	2.54	BC1010CT-ND	.12	.09	BC1010TR-ND	151.20/4000	K560J15C0GF5TL2
68 pf	15	2.54	BC1011CT-ND	.12	.09	BC1011TR-ND	151.20/4000	K680J15C0GF5TL2
82 pf	15	2.54	BC1012CT-ND	.12	.09	BC1012TR-ND	151.20/4000	K820J15C0GF5TL2
100 pf	15	2.54	BC1013CT-ND	.12	.09	BC1013TR-ND	151.20/4000	K101J15C0GF5TL2
120 pf	15	2.54	BC1014CT-ND	.13	.09	BC1014TR-ND	165.60/4000	K121J15C0GF5TL2
150 pf	15	2.54	BC1015CT-ND	.13	.09	BC1015TR-ND	165.60/4000	K151J15C0GF5TL2
180 pf	15	2.54	BC1016CT-ND	.13	.09	BC1016TR-ND	165.60/4000	K181J15C0GF5TL2
220 pf	15	2.54	BC1017CT-ND	.13	.09	BC1017TR-ND	165.60/4000	K221J15C0GF5TL2
270 pf	15	2.54	BC1018CT-ND	.14	.10	BC1018TR-ND	180.00/4000	K271J15C0GF5TL2
330 pf	15	2.54	BC1019CT-ND	.14	.10	BC1019TR-ND	180.00/4000	K331J15C0GF5TL2
390 pf	15	2.54	BC1020CT-ND	.15	.11	BC1020TR-ND	194.40/4000	K391J15C0GF5TL2
470 pf	15	2.54	BC1021CT-ND	.16	.11	BC1021TR-ND	201.60/4000	K471J15C0GF5TL2
560 pf	15	2.54	BC1022CT-ND	.16	.12	BC1022TR-ND	208.80/4000	K561J15C0GF5TL2
680 pf	15	2.54	BC1023CT-ND	.17	.12	BC1023TR-ND	216.00/4000	K681J15C0GF5TL2
820 pf	15	2.54	BC1024CT-ND	.18	.13	BC1024TR-ND	230.40/4000	K821J15C0GF5TL2
1000 pf	15	2.54	BC1025CT-ND	.17	.13	BC1025TR-ND	223.20/4000	K102J15C0GF5TL2
1200 pf	15	2.54	BC1026CT-ND	.18	.13	BC1026TR-ND	230.40/4000	K122J15C0GF5TL2
1500 pf	15	2.54	BC1027CT-ND	.18	.13	BC1027TR-ND	230.40/4000	K152J15C0GF5TL2
1800 pf	15	2.54	BC1028CT-ND	.21	.15	BC1028TR-ND	273.60/4000	K182J15C0GF5TL2
2200 pf	15	2.54	BC1029CT-ND	.22	.16	BC1029TR-ND	280.80/4000	K222J15C0GF5TL2
10 pf	15	5.08	BC1030CT-ND	.11	.08	BC1030TR-ND	144.00/4000	K100J15C0GF5TH5
12 pf	15	5.08	BC1031CT-ND	.11	.08	BC1031TR-ND	144.00/4000	K120J15C0GF5TH5
15 pf	15	5.08	BC1032CT-ND	.11	.08	BC1032TR-ND	144.00/4000	K150J15C0GF5TH5
18 pf	15	5.08	BC1033CT-ND	.11	.08	BC1033TR-ND	144.00/4000	K180J15C0GF5TH5
22 pf	15	5.08	BC1034CT-ND	.11	.08	BC1034TR-ND	144.00/4000	K220J15C0GF5TH5
27 pf	15	5.08	BC1035CT-ND	.11	.08	BC1035TR-ND	144.00/4000	K270J15C0GF5TH5
33 pf	15	5.08	BC1036CT-ND	.11	.08	BC1036TR-ND	144.00/4000	K330J15C0GF5TH5
39 pf	15	5.08	BC1037CT-ND	.11	.08	BC1037TR-ND	144.00/4000	K390J15C0GF5TH5
47 pf	15	5.08	BC1038CT-ND	.11	.08	BC1038TR-ND	144.00/4000	K470J15C0GF5TH5
56 pf	15	5.08	BC1039CT-ND	.12	.09	BC1039TR-ND	151.20/4000	K560J15C0GF5TH5
68 pf	15	5.08	BC1040CT-ND	.12	.09	BC1040TR-ND	151.20/4000	K680J15C0GF5TH5
82 pf	15	5.08	BC1041CT-ND	.12	.09	BC1041TR-ND	151.20/4000	K820J15C0GF5TH5
100 pf	15	5.08	BC1042CT-ND	.12	.09	BC1042TR-ND	151.20/4000	K101J15C0GF5TH5
150 pf	15	5.08	BC1043CT-ND	.13	.09	BC1043TR-ND	165.60/4000	K151J15C0GF5TH5
220 pf	15	5.08	BC1044CT-ND	.13	.09	BC1044TR-ND	165.60/4000	K221J15C0GF5TH5
330 pf	15	5.08	BC1045CT-ND	.14	.10	BC1045TR-ND	180.00/4000	K331J15C0GF5TH5
470 pf	15	5.08	BC1046CT-ND	.16	.11	BC1046TR-ND	201.60/4000	K471J15C0GF5TH5
680 pf	15	5.08	BC1047CT-ND	.17	.12	BC1047TR-ND	216.00/4000	K681J15C0GF5TH5
1000 pf	15	5.08	BC1048CT-ND	.17	.13	BC1048TR-ND	223.20/4000	K102J15C0GF5TH5
1500 pf	15	5.08	BC1049CT-ND	.18	.13	BC1049TR-ND	230.40/4000	K152J15C0GF5TH5
2200 pf	15	5.08	BC1050CT-ND	.21	.15	BC1050TR-ND	273.60/4000	K222J15C0GF5TH5
3300 pf	20	5.08	BC1051CT-ND	.30	.22	BC1051TR-ND	297.00/3000	K332J20C0GF5TH5
4700 pf	20	5.08	BC1052CT-ND	.37	.27	BC1052TR-ND	361.80/3000	K472J20C0GF5TH5
Type COG 100V ±5%								
10 pf	15	2.54	BC1054CT-ND	.11	.08	BC1054TR-ND	144.00/4000	K100J15C0GH5TL2
22 pf	15	2.54	BC1055CT-ND	.11	.08	BC1055TR-ND	144.00/4000	K220J15C0GH5TL2
47 pf	15	2.54	BC1056CT-ND	.11	.08	BC1056TR-ND	144.00/4000	K470J15C0GH5TL2
100 pf	15	2.54	BC1057CT-ND	.12	.09	BC1057TR-ND	151.20/4000	K101J15C0GH5TL2
220 pf	15	2.54	BC1058CT-ND	.15	.11	BC1058TR-ND	194.40/4000	K221J15C0GH5TL2
470 pf	15	2.54	BC1059CT-ND	.20	.15	BC1059TR-ND	259.20/4000	K471J15C0GH5TL2
1000 pf	20	2.54	BC1060CT-ND	.30	.22	BC1060TR-ND	297.00/3000	K102J20C0GH5TL2
10 pf	15	5.08	BC1061CT-ND	.11	.08	BC1061TR-ND	144.00/4000	K100J15C0GH5TH5
22 pf	15	5.08	BC1062CT-ND	.11	.08	BC1062TR-ND	144.00/4000	K220J15C0GH5TH5
47 pf	15	5.08	BC1063CT-ND	.11	.08	BC1063TR-ND	144.00/4000	K470J15C0GH5TH5
100 pf	15	5.08	BC1064CT-ND	.12	.09	BC1064TR-ND	151.20/4000	K101J15C0GH5TH5
220 pf	15	5.08	BC1065CT-ND	.15	.11	BC1065TR-ND	194.40/4000	K221J15C0GH5TH5
470 pf	15	5.08	BC1066CT-ND	.20	.15	BC1066TR-ND	259.20/4000	K471J15C0GH5TH5
1000 pf	20	5.08	BC1067CT-ND	.30	.22	BC1067TR-ND	297.00/3000	K102J20C0GH5TH5
Type X7R 50V ±10%								
220 pf	15	2.54	BC1068CT-ND	.11	.08	BC1068TR-ND	136.80/4000	K221K15X7RF5TL2
330 pf	15	2.54	BC1069CT-ND	.11	.08	BC1069TR-ND	136.80/4000	K331K15X7RF5TL2
470 pf	15	2.54	BC1070CT-ND	.11	.08	BC1070TR-ND	136.80/4000	K471K15X7RF5TL2
680 pf	15	2.54	BC1071CT-ND	.11	.08	BC1071TR-ND	136.80/4000	K681K15X7RF5TL2
1000 pf	15	2.54	BC1072CT-ND	.11	.08	BC1072TR-ND	136.80/4000	K102K15X7RF5TL2
1500 pf	15	2.54	BC1073CT-ND	.11	.08	BC1073TR-ND	136.80/4000	K152K15X7RF5TL2
2200 pf	15	2.54	BC1074CT-ND	.11	.08	BC1074TR-ND	136.80/4000	K222K15X7RF5TL2
3300 pf	15	2.54	BC1075CT-ND	.12	.09	BC1075TR-ND	151.20/4000	K332K15X7RF5TL2
4700 pf	15	2.54	BC1076CT-ND	.12	.09	BC1076TR-ND	151.20/4000	K472K15X7RF5TL2
6800 pf	15	2.54	BC1077CT-ND	.12	.09	BC1077TR-ND	151.20/4000	K682K15X7RF5TL2
.01 µf	15	2.54	BC1078CT-ND	.11	.08	BC1078TR-ND	144.00/4000	K103K15X7RF5TL2
.015 µf	15	2.54	BC1079CT-ND	.12	.09	BC1079TR-ND	158.40/4000	K153K15X7RF5TL2
.022 µf	15	2.54	BC1080CT-ND	.13	.09	BC1080TR-ND	165.60/4000	K223K15X7RF5TL2
.033 µf	15	2.54	BC1081CT-ND	.14	.10	BC1081TR-ND	180.00/4000	K333K15X7RF5TL2
.047 µf	15	2.54	BC1082CT-ND	.14	.11	BC1082TR-ND	187.20/4000	K473K15X7RF5TL2
.068 µf	15	2.54	BC1083CT-ND	.20	.15	BC1083TR-ND	259.20/4000	K683K15X7RF5TL2
.1 µf	15	2.54	BC1084CT-ND	.19	.14	BC1084TR-ND	244.80/4000	K104K15X7RF5TL2
220 pf	15	5.08	BC1085CT-ND	.11	.08	BC1085TR-ND	136.80/4000	K221K15X7RF5TH5
330 pf	15	5.08	BC1086CT-ND	.11	.08	BC1086TR-ND	136.80/4000	K331K15X7RF5TH5
470 pf	15	5.08	BC1087CT-ND	.11	.08	BC1087TR-ND	136.80/4000	K471K15X7RF5TH5
680 pf	15	5.08	BC1088CT-ND	.11	.08	BC1088TR-ND	136.80/4000	K681K15X7RF5TH5
1000 pf	15	5.08	BC1089CT-ND	.11	.08	BC1089TR-ND	136.80/4000	K102K15X7RF5TH5
1500 pf	15	5.08	BC1090CT-ND	.11	.08	BC1090TR-ND	136.80/4000	K152K15X7RF5TH5
2200 pf	15	5.08	BC1091CT-ND	.11	.08	BC1091TR-ND	136.80/4000	K222K15X7RF5TH5
3300 pf	15	5.08	BC1092CT-ND	.12	.09	BC1092TR-ND	151.20/4000	K332K15X7RF5TH5
4700 pf	15	5.08	BC1093CT-ND	.12	.09	BC1093TR-ND	151.20/4000	K472K15X7RF5TH5
6800 pf	15	5.08	BC1094CT-ND	.12	.09	BC1094TR-ND	151.20/4000	K682K15X7RF5TH5
.01 µf	15	5.08	BC1095CT-ND	.11	.08	BC1095TR-ND	144.00/4000	K103K15X7RF5TH5
.015 µf	15	5.08	BC1096CT-ND	.12	.09	BC1096TR-ND	158.40/4000	K153K15X7RF5TH5
.022 µf	15	5.08	BC1097CT-ND	.13	.09	BC1097TR-ND	165.60/4000	K223K15X7RF5TH5
.033 µf	15	5.08	BC1098CT-ND	.14	.10	BC1098TR-ND	180.00/4000	K333K15X7RF5TH5
.047 µf	15	5.08	BC1099CT-ND	.14	.11	BC1099TR-ND	187.20/4000	K473K15X7RF5TH5
.068 µf	20	5.08	BC1100CT-ND	.20	.15	BC1100TR-ND	259.20/4000	K683K20X7RF5TH5
.1 µf	15	5.08	BC1101CT-ND	.19	.14	BC1101TR-ND	244.80/4000	K104K15X7RF5TH5
.15 µf	20	5.08	BC1102CT-ND	.38	.27	BC1102TR-ND	372.60/3000	K154K20X7RF5TH5
.22 µf	20	5.08	BC1103CT-ND	.40	.29	BC1103TR-ND	399.60/3000	K224K20X7RF5TH5
Type X7R 100V ±10%								
220 pf	15	2.54	BC1106CT-ND	.11	.08	BC1106TR-ND	136.80/4000	K221K15X7RH5TL2
470 pf	15	2.54	BC1107CT-ND	.11	.08	BC1107TR-ND	136.80/4000	K471K15X7RH5TL2
1000 pf	15	2.54	BC1108CT-ND	.11	.08	BC1108TR-ND	136.80/4000	K102K15X7RH5TL2
2200 pf	15	2.54	BC1109CT-ND	.11	.08	BC1109TR-ND	144.00/4000	K222K15X7RH5TL2
4700 pf	15	2.54	BC1110CT-ND	.12	.09	BC1110TR-ND	151.20/4000	K472K15X7RH5TL2
.01 µf	15	2.54	BC1111CT-ND	.13	.10	BC1111TR-ND	172.80/4000	K103K15X7RH5TL2
.022 µf	20	2.54	BC1112CT-ND	.17	.12	BC1112TR-ND	216.00/4000	K223K20X7RH5TL2
.047 µf	20	2.54	BC1113CT-ND	.21	.15	BC1113TR-ND	205.20/3000	K473K20X7RH5TL2
.1 µf	20	2.54	BC1114CT-ND	.26	.19	BC1114TR-ND	259.20/3000	K104K20X7RH5TL2
220 pf	15	5.08	BC1115CT-ND	.11	.08	BC1115TR-ND	136.80/4000	K221K15X7RH5TH5
470 pf	15	5.08	BC1116CT-ND	.11	.08	BC1116TR-ND	136.80/4000	K471K15X7RH5TH5
1000 pf	15	5.08	BC1117CT-ND	.11	.08	BC1117TR-ND	136.80/4000	K102K15X7RH5TH5
2200 pf	15	5.08	BC1118CT-ND	.11	.08	BC1118TR-ND	144.00/4000	K222K15X7RH5TH5
4700 pf	15	5.08	BC1119CT-ND	.12	.09	BC1119TR-ND	151.20/4000	K472K15X7RH5TH5
.01 µf	15	5.08	BC1120CT-ND	.13	.10	BC1120TR-ND	172.80/4000	K103K15X7RH5TH5
.022 µf	15	5.08	BC1121CT-ND	.17	.12	BC1121TR-ND	216.00/4000	K223K15X7RH5TH5
.047 µf	20	5.08	BC1122CT-ND	.21	.15	BC1122TR-ND	205.20/3000	K473K20X7RH5TH5
.1 µf	20	5.08	BC1123CT-ND	.25	.18	BC1123TR-ND	246.15/3000	K104K20X7RH5TH5
Type Z5U 50V ±20%								
.01 µf	15	2.54	BC1124CT-ND	.11	.08	BC1124TR-ND	136.80/4000	K103M15Z5UF5TL2
.022 µf	15	2.54	BC1125CT-ND	.11	.08	BC1125TR-ND	144.00/4000	K223M15Z5UF5TL2
.047 µf	15	2.54	BC1126CT-ND	.12	.09	BC1126TR-ND	151.20/4000	K473M15Z5UF5TL2
.1 µf	15	2.54	BC1127CT-ND	.11	.08	BC1127TR-ND	144.00/4000	K104M15Z5UF5TL2
.15 µf	15	2.54	BC1128CT-ND	.13	.10	BC1128TR-ND	172.80/4000	K154M15Z5UF5TL2
.22 µf	15	2.54	BC1129CT-ND	.18	.13	BC1129TR-ND	237.60/4000	K224M15Z5UF5TL2
.01 µf	15	5.08	BC1130CT-ND	.11	.08	BC1130TR-ND	136.80/4000	K103M15Z5UF5TH5
.022 µf	15	5.08	BC1131CT-ND	.11	.08	BC1131TR-ND	144.00/4000	K223M15Z5UF5TH5
.047 µf	15	5.08	BC1132CT-ND	.12	.09	BC1132TR-ND	151.20/4000	K473M15Z5UF5TH5
.1 µf	15	5.08	BC1133CT-ND	.11	.08	BC1133TR-ND	144.00/4000	K104M15Z5UF5TH5
.15 µf	15	5.08	BC1134CT-ND	.13	.10	BC1134TR-ND	172.80/4000	K154M15Z5UF5TH5
.22 µf	15	5.08	BC1135CT-ND	.18	.13	BC1135TR-ND	237.60/4000	K224M15Z5UF5TH5
.33 µf	20	5.08	BC1136CT-ND	.23	.17	BC1136TR-ND	226.80/3000	K334M20Z5UF5TH5
.47 µf	20	5.08	BC1137CT-ND	.29	.21	BC1137TR-ND	280.80/3000	K474M20Z5UF5TH5
.68 µf	20	5.08	BC1138CT-ND	.41	.30	BC1138TR-ND	410.40/3000	K684M20Z5UF5TH5
1 µf	20	5.08	BC1139CT-ND	.48	.35	BC1139TR-ND	475.20/3000	K105M20Z5UF5TH5
Type Z5U 100V ±20%								
.01 µf	15	2.54	BC1140CT-ND	.12	.09	BC1140TR-ND	158.40/4000	K103M15Z5UH5TL2
.022 µf	20	2.54	BC1141CT-ND	.15	.11	BC1141TR-ND	145.80/3000	K223M20Z5UH5TL2
.047 µf	20	2.54	BC1142CT-ND	.19	.14	BC1142TR-ND	183.60/3000	K473M20Z5UH5TL2
.1 µf	20	2.54	BC1143CT-ND	.26	.19	BC1143TR-ND	253.80/3000	K104M20Z5UH5TL2
.01 µf	15	5.08	BC1144CT-ND	.12	.09	BC1144TR-ND	158.40/4000	K103M15Z5UH5TH5
.1 µf	20	5.08	BC1145CT-ND	.26	.19	BC1145TR-ND	253.80/3000	K104M20Z5UH5TH5
Type Y5V 25V +80 -20%								
.01 µf	15	2.54	BC1146CT-ND	.11	.08	BC1146TR-ND	136.80/4000	K103Z15Y5VE5TL2
.022 µf	15	2.54	BC1147CT-ND	.11	.08	BC1147TR-ND	136.80/4000	K223Z15Y5VE5TL2
.1 µf	15	2.54	BC1148CT-ND	.11	.08	BC1148TR-ND	144.00/4000	K104Z15Y5VE5TL2
.22 µf	15	2.54	BC1149CT-ND	.18	.13	BC1149TR-ND	230.40/4000	K224Z15Y5VE5TL2
.47 µf	20	2.54	BC1150CT-ND	.27	.20	BC1150TR-ND	270.00/3000	K474Z20Y5VE5TL2
1 µf	20	2.54	BC1151CT-ND	.47	.34	BC1151TR-ND	464.40/3000	K105Z20Y5VE5TL2
.01 µf	15	5.08	BC1152CT-ND	.11	.08	BC1152TR-ND	136.80/4000	K103Z15Y5VE5TH5
.022 µf	15	5.08	BC1153CT-ND	.11	.08	BC1153TR-ND	136.80/4000	K223Z15Y5VE5TH5
.1 µf	15	5.08	BC1154CT-ND	.11	.08	BC1154TR-ND	144.00/4000	K104Z15Y5VE5TH5
.22 µf	15	5.08	BC1155CT-ND	.18	.13	BC1155TR-ND	230.40/4000	K224Z15Y5VE5TH5
.47 µf	20	5.08	BC1156CT-ND	.27	.20	BC1156TR-ND	270.00/3000	K474Z20Y5VE5TH5
1 µf	20	5.08	BC1157CT-ND	.47	.34	BC1157TR-ND	464.40/3000	K105Z20Y5VE5TH5
Type Y5V 50V +80 -20%								
.01 µf	15	2.54	BC1158CT-ND	.11	.08	BC1158TR-ND	136.80/4000	K103Z15Y5VF5TL2
.022 µf	15	2.54	BC1159CT-ND	.11	.08	BC1159TR-ND	144.00/4000	K223Z15Y5VF5TL2
.1 µf	15	2.54	BC1160CT-ND	.11	.08	BC1160TR-ND	144.00/4000	K104Z15Y5VF5TL2
.22 µf	15	2.54	BC1161CT-ND	.18	.13	BC1161TR-ND	237.60/4000	K224Z15Y5VF5TL2
1 µf	20	2.54	BC1162CT-ND	.48	.35	BC1162TR-ND	475.20/3000	K105Z20Y5VF5TL2
.01 µf	15	5.08	BC1163CT-ND	.11	.08	BC1163TR-ND	136.80/4000	K103Z15Y5VF5TH5
.022 µf	15	5.08	BC1164CT-ND	.11	.08	BC1164TR-ND	144.00/4000	K223Z15Y5VF5TH5
.1 µf	15	5.08	BC1165CT-ND	.11	.08	BC1165TR-ND	144.00/4000	K104Z15Y5VF5TH5
.22 µf	15	5.08	BC1166CT-ND	.18	.13	BC1166TR-ND	237.60/4000	K224Z15Y5VF5TH5
.47 µf	20	5.08	BC1167CT-ND	.28	.20	BC1167TR-ND	275.40/3000	K474Z20Y5VF5TH5
1 µf	20	5.08	BC1168CT-ND	.48	.35	BC1168TR-ND	475.20/3000	K105Z20Y5VF5TH5

Ceramic Disc Capacitors

EIA Temperature Coefficient Code	C0G	U2M	Y5V	Y5P
Capacitance Temperature Coefficient	30PPM/°C	+150 to N1500PPM/°C	+22%, -82%	±10%
Operating Temperature Range	-25 to +85°C	-25 to +85°C	-30 to +85°C	-30 to +85°C
Tolerance on Capacitance	±5%	±5%	+80/-20%	±10%
Q Factor	C ≥ 30pf: Q ≥ 1000 C < 30pf: Q ≥ 400 +20°C	C ≥ 30pf: Q ≥ 1000 C < 30pf: Q ≥ 400 +20°C	— —	— —
Dissipation Factor	—	—	4.0% max.	2.5% max.
Insulation Resistance	10000 MΩ	10000 MΩ min.	10000 MΩ min.	10000 MΩ min.



	Dimensions (mm)		Capacitance	Digi-Key	Pricing				BC Components
Tolerance	**D**	**S**	**Value**	**Part No.**	**10**	**100**	**500**	**1,000**	**Part No.**
Type U2M, 100V									
5%	5.00	6.35	39pF	1308PH-ND	.72	5.67	20.60	30.00	D390J20U2MH63L6
5%	5.00	6.35	47pF	1309PH-ND	.72	5.67	20.60	30.00	D470J20U2MH63L6
5%	5.00	6.35	56pF	1310PH-ND	.72	5.67	20.60	30.00	D560J20U2MH63L6
Type C0G, 100V									
±.5	5.00	6.35	10pF	1326PH-ND	.72	5.67	20.60	30.00	D100D20C0GH63L6
5%	5.00	6.35	15pF	1328PH-ND	.72	5.67	20.60	30.00	D150J20C0GH63L6
5%	5.00	6.35	18pF	1329PH-ND	.72	5.67	20.60	30.00	D180J20C0GH63L6
5%	5.00	6.35	22pF	1330PH-ND	.72	5.67	20.60	30.00	D220J20C0GH63L6
5%	5.00	6.35	27pF	1331PH-ND	.72	5.67	20.60	30.00	D270J20C0GH63L6
5%	5.00	6.35	33pF	1332PH-ND	.72	5.67	20.60	30.00	D330J20C0GH63L6
5%	6.50	6.35	39pF	1333PH-ND	.72	5.67	20.60	30.00	D390J25C0GH63L6
5%	6.50	6.35	47pF	1334PH-ND	.80	6.27	22.80	34.00	D470J25C0GH63L6
5%	6.50	6.35	56pF	1335PH-ND	.80	6.27	22.80	34.00	D560J25C0GH63L6
5%	6.50	6.35	68pF	1336PH-ND	.80	6.27	22.80	34.00	D680J25C0GH63L6
5%	7.37	6.35	100pF	1338PH-ND	.88	6.88	25.00	37.00	D101J29C0GH63L6
5%	7.37	6.35	120pF	1339PH-ND	.88	6.88	25.00	37.00	D121J33C0GH63L6
5%	10.01	6.35	150pF	1340PH-ND	1.10	8.66	31.50	46.00	D151J33C0GH63L6
5%	10.01	6.35	220pF	1342PH-ND	1.10	8.66	31.50	46.00	D221J39C0GH63L6
Type C0G, 500V									
±.5	5.00	6.35	10pF	1355PH-ND	1.37	10.73	39.00	57.00	D100J20C0GL63L6
5%	5.00	6.35	15pF	1356PH-ND	1.37	10.73	39.00	57.00	D150J20C0GL63L6
5%	6.50	6.35	22pF	1358PH-ND	1.72	13.48	49.00	72.00	D220J25C0GL63L6
Type Y5P, 100V									
10%	5.00	6.35	100pF	1371PH-ND	.67	5.23	19.00	28.00	D101K20Y5PH63L6
10%	5.00	6.35	220pF	1375PH-ND	.77	6.05	22.00	32.00	D221K20Y5PH63L6
10%	5.00	6.35	330pF	1377PH-ND	.77	6.05	22.00	32.00	D331K20Y5PHAAEU
10%	5.00	6.35	470pF	1379PH-ND	.77	6.05	22.00	32.00	D471K20Y5PH63L6
10%	5.00	6.35	1000pF	1383PH-ND	.77	6.05	22.00	32.00	D102K20Y5PH63L6
10%	6.50	6.35	2200pF	1387PH-ND	.77	6.05	22.00	32.00	D222K25Y5PH63L6
10%	7.37	6.35	2700pF	1388PH-ND	.84	6.60	24.00	35.00	D272K33Y5PL63L6
10%	7.37	6.35	3300pF	1389PH-ND	.84	6.60	24.00	35.00	D332K29Y5PH63L6
10%	10.01	6.35	4700pF	1391PH-ND	1.10	8.61	31.30	46.00	D472K39Y5PH63L6
Type Y5V, 100V									
+80/-20	5.00	6.35	1500pF	1395PH-ND	.77	6.05	22.00	32.00	D152Z20Y5VH63L6
Type Y5P, 500V									
10%	5.00	6.35	100pF	1401PH-ND	1.37	10.73	39.00	57.00	D101K20Y5PL63L6
10%	5.00	6.35	150pF	1402PH-ND	1.37	10.73	39.00	57.00	D151K20Y5PL63L6
10%	5.00	6.35	220pF	1404PH-ND	1.37	10.73	39.00	57.00	D221K20Y5PL63L6
10%	5.00	6.35	270pF	1405PH-ND	1.37	10.73	39.00	57.00	D271K20Y5PL63L6
10%	5.00	6.35	330pF	1406PH-ND	1.37	10.73	39.00	57.00	D331K20Y5PL63L6
10%	5.00	6.35	470pF	1408PH-ND	1.37	10.73	39.00	57.00	D471K20Y5PL63L6
10%	6.50	6.35	1000pF	1412PH-ND	1.72	13.48	49.00	72.00	D102K25Y5PL63L6
10%	9.91	9.52	2200pF	1415PH-ND	1.19	9.35	34.00	50.00	D222K33Y5PL63L0
10%	11.99	9.52	3300pF	1417PH-ND	2.77	21.73	79.00	116.00	D332K39Y5PL63L0
10%	17.53	9.52	0.01µf	1424PH-ND	5.25	41.25	150.00	221.00	D103K69Y5PLABEC

Panasonic® Ceramic Disc Capacitors

PANASONIC ECC SERIES (CLASS I)

Features:
- Conform to EIA Standard
- Linear temperature coefficient of capacitance
- High stability of capacitance
- Low loss at wide range of frequency

Specifications:
- Operating temperature range: –55°C to +85°C
- Temperature characteristics: Conform to EIA classes GP & NP0. GP: General purpose capacitors with temp. char. between +150 and –1500PPM/°C (EIA U2M char.)
  NP0: Max. cap. change of ±5% from –55°C to +85°C.

PANASONIC ECK SERIES (CLASS II)

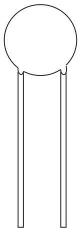
Features: • Conform to EIA Standard • Large capacitance in small sizes • Non linear temperature coefficient of capacitance • High temperature stability (for 1-3KV, Y5P char.) • Low loss at pulse voltage (for pulse circuit only)

Specifications: • **Operating temperature range:** –30°C to +85°C (25-500V), –25°C to +125°C (1-3KV) • **Dissipation factor:** Y5P: 2.5% max., Y5V and Z4V: 5% max., 1K (tan.): 25 x 10^{-3} at 1KHz 1 to 5Vrms, and 20°C • **Temperature characteristics:** Per EIA code. Y5P: Max. cap. change of ±10% from –25°C to +85°C, Y5V: Max. cap. change of +22, –82% from +10°C to +60°C, E: Max. cap. change is +20 ~ –55% over temp. range of –25°C to +85°C, B: Max. cap. change is ±10% over temp. range of –25°C to +85°C, V: Max. cap. change is +30 ~ –80% over temp. range of 0°C to +70°C • **Insulation resistance:** 10,000M ohms min. • **Dielectric strength:** 250% (200% for 1-3KV) of rated voltage for 1-5 sec.

PANASONIC ECF SERIES (CLASS III)

Features: SB/SR (Intergranular barrier layer type)
- Linear temperature characteristics of capacitance
- Stable capacitance change over the specified temperature
- Low loss at wide range of frequency
- Cost saving by replacing film capacitors
  SF (Surface barrier layer type)
- Ultra large capacitance in small sizes

Specifications:
- Operating temperature range: –25°C to +85°C
- Dissipation factor/tan (at 1KHz, 1 ±0.2 Vrms, 20°C): SR, SB 1 ±0.2 V, SF 0.1 ±0.2 V; SB, SR...25 x 10^{-3} max., SF...75 x 10^{-3} max.
- Insulation resistance (at 20°C): SB, SR, SF...1,000M ohms or 100M ohms mF, whichever is the smaller
- Temperature characteristics: SB: +10% from –25° to +85°C, SR: ±15% from –25° to +85°C, SF: +30, –85% from –25° to +85°C



Voltage	Capacitance	Tolerance	Temp. Char.	Dimensions (mm)			Digi-Key Part No.	Pricing						Panasonic Part No.
				Dia.	Thickness	Lead Space		10	100	1,000	5,000	10,000	25,000	
500	82pf	±5%	NP0	13.0	3.5	9.5	P4411-ND	2.98	21.28	119.17	110.66/M	106.40/M	102.15/M	ECC-D2H820JCE
25	.047μf	+80%-20%	Z4V	8.5	3.5	6.35	P4307-ND	1.34	9.03	46.59	39.32/M	37.13/M	36.40/M	ECK-F1E473ZVE
1K	100pf	±10%	Y5P	6.0	5.0	5.00	P4116-ND	2.61	18.43	100.50	87.10/M	83.75/M	80.40/M	ECK-D3A101KBN
1K	120pf	±10%	Y5P	6.0	5.0	5.00	P4117-ND	2.61	18.43	100.50	87.10/M	83.75/M	80.40/M	ECK-D3A121KBN
1K	150pf	±10%	Y5P	6.0	5.0	5.00	P4118-ND	2.54	17.88	97.50	84.50/M	81.25/M	78.00/M	ECK-D3A151KBN
1K	180pf	±10%	Y5P	6.0	5.0	5.00	P4119-ND	2.54	17.88	97.50	84.50/M	81.25/M	78.00/M	ECK-D3A181KBN
1K	220pf	±10%	Y5P	6.0	5.0	5.00	P4120-ND	2.54	17.88	97.50	84.50/M	81.25/M	78.00/M	ECK-D3A221KBN
1K	270pf	±10%	Y5P	6.0	5.0	5.00	P4121-ND	2.54	17.88	97.50	84.50/M	81.25/M	78.00/M	ECK-D3A271KBN
1K	330pf	±10%	Y5P	8.0	5.0	5.00	P4122-ND	2.98	21.25	119.00	110.50/M	106.25/M	102.00/M	ECK-D3A331KBN
1K	390pf	±20%	Y5P	8.0	5.0	5.00	P4123-ND	2.98	21.25	119.00	110.50/M	106.25/M	102.00/M	ECK-D3A391KBN
1K	470pf	±10%	Y5P	8.0	5.0	5.00	P4124-ND	2.98	21.25	119.00	110.50/M	106.25/M	102.00/M	ECK-D3A471KBN
1K	560pf	±10%	Y5P	8.0	5.0	5.00	P4125-ND	2.98	21.25	119.00	110.50/M	106.25/M	102.00/M	ECK-D3A561KBN
1K	680pf	±10%	Y5P	8.0	5.0	5.00	P4126-ND	3.12	22.00	120.00	104.00/M	100.00/M	96.00/M	ECK-D3A681KBN
1K	820pf	±10%	Y5P	10.0	5.0	5.00	P4127-ND	2.98	21.25	119.00	110.50/M	106.25/M	102.00/M	ECK-D3A821KBN
1K	1000pf	±10%	Y5P	10.0	5.0	5.00	P4128-ND	2.98	21.25	119.00	110.50/M	106.25/M	102.00/M	ECK-D3A102KBN
1K	1200pf	±10%	Y5P	10.0	5.0	5.00	P4129-ND	3.71	26.50	148.40	137.80/M	132.50/M	127.20/M	ECK-D3A122KBN
1K	1500pf	±10%	Y5P	11.0	5.0	5.00	P4130-ND	3.71	26.50	148.40	137.80/M	132.50/M	127.20/M	ECK-D3A152KBN
1K	1800pf	±10%	Y5P	11.0	5.0	5.00	P4131-ND	3.71	26.50	148.40	137.80/M	132.50/M	127.20/M	ECK-D3A182KBN
1K	2200pf	±10%	Y5P	13.0	5.0	5.00	P4199-ND	3.71	26.50	148.40	137.80/M	132.50/M	127.20/M	ECK-D3A222KBP
1K	2700pf	±10%	Y5P	13.0	5.0	5.00	P4211-ND	3.71	26.50	148.40	137.80/M	132.50/M	127.20/M	ECK-D3A272KBP
1K	3300pf	±10%	Y5P	13.5	5.0	10.00	P4134-ND	4.20	30.00	168.00	156.00/M	150.00/M	144.00/M	ECK-D3A332KBN
1K	3900pf	±10%	Y5P	15.5	5.0	10.00	P4135-ND	5.41	39.72	228.15	219.70/M	211.25/M	202.80/M	ECK-D3A392KBN
1K	4700pf	±10%	Y5P	18.0	5.0	10.00	P4136-ND	6.40	47.00	270.00	260.00/M	250.00/M	240.00/M	ECK-D3A472KBN
1K	5600pf	±10%	Y5P	18.0	5.0	10.00	P4137-ND	6.40	47.00	270.00	260.00/M	250.00/M	240.00/M	ECK-D3A562KBN
1K	6800pf	±10%	Y5P	22.0	5.0	10.00	P4138-ND	8.96	65.80	378.00	364.00/M	350.00/M	336.00/M	ECK-D3A682KBN
1K	8200pf	±10%	Y5P	22.0	5.0	10.00	P4139-ND	8.96	65.80	378.00	364.00/M	350.00/M	336.00/M	ECK-D3A822KBN
1K	10000pf	±10%	Y5P	22.0	5.0	10.00	P4140-ND	9.57	71.78	424.27	408.32/M	398.75/M	382.80/M	ECK-D3A103KBN
2K	100pf	±10%	Y5P	7.0	5.0	7.5	P4474A-ND	3.78	27.00	151.20	140.40/M	135.00/M	129.60/M	ECK-D3D101KBP
2K	120pf	±10%	Y5P	7.0	5.0	7.5	P4475A-ND	3.78	27.00	151.20	140.40/M	135.00/M	129.60/M	ECK-D3D121KBP
2K	150pf	±10%	Y5P	7.0	5.0	7.5	P4476A-ND	3.78	27.00	151.20	140.40/M	135.00/M	129.60/M	ECK-D3D151KBP
2K	180pf	±10%	Y5P	7.0	5.0	7.5	P4477A-ND	3.78	27.00	151.20	140.40/M	135.00/M	129.60/M	ECK-D3D181KBP
2K	220pf	±10%	Y5P	7.0	5.0	7.5	P4478A-ND	3.78	27.00	151.20	140.40/M	135.00/M	129.60/M	ECK-D3D221KBP
2K	270pf	±10%	Y5P	7.0	5.0	7.5	P4479A-ND	3.78	27.00	151.20	140.40/M	135.00/M	129.60/M	ECK-D3D271KBP
2K	330pf	±10%	Y5P	7.0	5.0	7.5	P4480A-ND	3.78	27.00	151.20	140.40/M	135.00/M	129.60/M	ECK-D3D331KBP
2K	390pf	±10%	Y5P	7.0	5.0	7.5	P4481A-ND	3.78	27.00	151.20	140.40/M	135.00/M	129.60/M	ECK-D3D391KBP
2K	470pf	±10%	Y5P	7.5	5.0	7.5	P4482A-ND	4.06	29.00	162.40	150.80/M	145.00/M	139.20/M	ECK-D3D471KBP
2K	560pf	±10%	Y5P	8.0	5.0	7.5	P4483A-ND	4.06	29.00	162.40	150.80/M	145.00/M	139.20/M	ECK-D3D561KBP
2K	680pf	±10%	Y5P	9.0	5.0	7.5	P4484A-ND	4.27	30.50	170.80	158.60/M	152.50/M	146.40/M	ECK-D3D681KBP
2K	820pf	±10%	Y5P	9.0	5.0	7.5	P4485A-ND	4.27	30.50	170.80	158.60/M	152.50/M	146.40/M	ECK-D3D821KBP
2K	1000pf	±10%	Y5P	10.0	5.0	7.5	P4486A-ND	5.22	37.25	208.60	193.70/M	186.25/M	178.80/M	ECK-D3D102KBP
2K	1200pf	±10%	Y5P	10.5	5.0	7.5	P4487A-ND	5.41	39.72	228.15	219.70/M	211.25/M	202.80/M	ECK-D3D122KBP
2K	1500pf	±10%	Y5P	12.0	5.0	7.5	P4488A-ND	6.30	46.30	265.95	256.10/M	246.25/M	236.40/M	ECK-D3D152KBP
2K	1800pf	±10%	Y5P	12.5	5.0	7.5	P4489A-ND	6.30	46.30	265.95	256.10/M	246.25/M	236.40/M	ECK-D3D182KBP
2K	2200pf	±10%	Y5P	14.0	5.0	10.0	P4490A-ND	9.70	71.21	409.05	393.90/M	378.75/M	363.60/M	ECK-D3D222KBP
2K	2700pf	±10%	Y5P	16.0	5.0	10.0	P4491A-ND	9.63	72.23	426.93	410.88/M	401.25/M	385.20/M	ECK-D3D272KBP
2K	3300pf	±10%	Y5P	17.0	5.0	10.0	P4492A-ND	11.61	87.08	514.71	495.36/M	483.75/M	464.40/M	ECK-D3D332KBP
2K	3900pf	±10%	Y5P	18.0	5.0	10.0	P4493A-ND	12.33	92.48	546.63	526.08/M	513.75/M	493.20/M	ECK-D3D392KBP
2K	4700pf	±10%	Y5P	25.0	5.0	10.0	P4494A-ND	13.50	101.25	598.50	576.00/M	562.50/M	540.00/M	ECK-D3D472KBP
2K	5600pf	±10%	Y5P	25.0	5.0	10.0	P4495A-ND	13.50	101.25	598.50	576.00/M	562.50/M	540.00/M	ECK-D3D562KBP
3K	100pf	±10%	Y5P	7.5	6.0	7.5	P4496A-ND	3.85	27.50	154.00	143.00/M	137.50/M	132.00/M	ECK-D3F101KBP
3K	120pf	±10%	Y5P	7.5	6.0	7.5	P4497A-ND	3.85	27.50	154.00	143.00/M	137.50/M	132.00/M	ECK-D3F121KBP
3K	150pf	±10%	Y5P	7.5	6.0	7.5	P4498A-ND	3.85	27.50	154.00	143.00/M	137.50/M	132.00/M	ECK-D3F151KBP
3K	180pf	±10%	Y5P	7.5	6.0	7.5	P4499A-ND	3.85	27.50	154.00	143.00/M	137.50/M	132.00/M	ECK-D3F181KBP
3K	220pf	±10%	Y5P	7.5	6.0	7.5	P4500A-ND	3.85	27.50	154.00	143.00/M	137.50/M	132.00/M	ECK-D3F221KBP
3K	270pf	±10%	Y5P	7.5	6.0	7.5	P4501A-ND	3.85	27.50	154.00	143.00/M	137.50/M	132.00/M	ECK-D3F271KBP
3K	330pf	±10%	Y5P	8.0	6.0	7.5	P4502A-ND	4.10	29.25	163.80	152.10/M	146.25/M	140.40/M	ECK-D3F331KBP
3K	390pf	±10%	Y5P	9.0	6.0	7.5	P4503A-ND	4.34	31.00	173.60	161.20/M	155.00/M	148.80/M	ECK-D3F391KBP
3K	470pf	±10%	Y5P	9.5	6.0	7.5	P4504A-ND	4.66	33.25	186.20	172.90/M	166.25/M	159.60/M	ECK-D3F471KBP
3K	560pf	±10%	Y5P	10.0	6.0	7.5	P4505A-ND	4.97	35.50	198.80	184.60/M	177.50/M	170.40/M	ECK-D3F561KBP
3K	680pf	±10%	Y5P	11.0	6.0	7.5	P4506A-ND	6.30	46.30	265.95	256.10/M	246.25/M	236.40/M	ECK-D3F681KBP
3K	820pf	±10%	Y5P	11.0	6.0	7.5	P4507A-ND	6.30	46.30	265.95	256.10/M	246.25/M	236.40/M	ECK-D3F821KBP
3K	1000pf	±10%	Y5P	12.5	6.0	7.5	P4508A-ND	6.43	47.24	271.35	261.30/M	251.25/M	241.20/M	ECK-D3F102KBP
3K	1200pf	±10%	Y5P	14.5	6.0	10.0	P4509A-ND	9.69	72.68	429.59	413.44/M	403.75/M	387.60/M	ECK-D3F122KBP
3K	1500pf	±10%	Y5P	14.5	6.0	10.0	P4510A-ND	9.54	71.55	422.94	407.04/M	397.50/M	381.60/M	ECK-D3F152KBP
3K	1800pf	±10%	Y5P	16.0	6.0	10.0	P4511A-ND	13.17	98.78	583.87	561.92/M	548.75/M	526.80/M	ECK-D3F182KBP
3K	2200pf	±10%	Y5P	17.0	6.0	10.0	P4512A-ND	13.86	103.95	614.46	591.36/M	577.50/M	554.40/M	ECK-D3F222KBP
3K	2700pf	±10%	Y5P	18.5	6.0	10.0	P4513A-ND	16.41	123.08	727.51	700.16/M	683.75/M	656.40/M	ECK-D3F272KBP
25	4700pf	±20%	SR	4.5	3.5	2.50	P4422-ND	1.49	10.07	51.97	43.85/M	41.42/M	40.60/M	ECF-F1E472MR
50	6800pf	±10%	SB	6.5	3.5	5.00	P4157-ND	2.66	18.79	102.48	88.82/M	85.40/M	81.99/M	ECF-F1H682KB

Panasonic® Ceramic Disc Capacitors

Type RS, Class 1 Safety

Ceramic disc capacitors, Type RS, are recognized by the following safety regulations: • UL1414 (125 VAC) and CSA (125 VAC) • European safety regulations for "Class I" equipment: VDE, SEV, BSI, SEMKO, FIMKO, NEMKO and DEMKO.

Specifications:

Class 2, High Dielectric Constant

Oper. Temp. Range	-25°C to 85°C		
Rated Voltage	Applicable Standards	Rated Voltage	
	UL, CSA	125 VAC	
	VDE (565-1)	250 VAC	
	VDE (560-2), FIMKO, SEV, BS, SEMKO, NEMKO, DEMKO	400 VAC	
Dielectric Withstanding Voltage	T.C.	Voltage	
	B, E	2600 VAC for 1 min.	
	V	2500 VAC for 1 min.	
Capacitance	Within the tolerance, when measured at 1 kHz, 5 Vrms max. and 20°C		
Dissipation Factor	B, E: 0.025 max. V: 0.05 max when measured at 1 kHz, 5 Vrms max. and 20°C		
Insulation Resist.	10000 MΩ min.. at 500 VDC, 1 minute		
Temperature Characteristics	T.C.	Cap. Change	Temp. Range
	B	±10% max.	-25°C to 85°C
	E	+20/-55% max	-25°C to 85°C
	V	+30/-80% max	0°C to 70°C
	The reference temperature: 20°C		

Features:

- Large capacitance in small size • Minimum coating resin on leads

Applications:

- Coupling and By-pass, where low losses and high stability of capacitance are not so important

Specifications:

• Operating Temperature Range: -25°C to 85°C • Rated Voltage: 25 VDC, 50VDC, 500VDC • Dielectric Withstanding Voltage: 250% of the rated voltage for 1 to 5 seconds (no damage occurs when the test voltage is applied between terminals) • Capacitance: measured at 1kHz ±10%, 1 Vrms and 20°C within the specified tolerance - standard capacitance tolerance [Y5P]: ±10% [Y5V, Z4V]: +80/-20% • Dissipation Factor: [Y5P]: D.F. ≤0.025 [Y5V, Z4V]: D.F. ≤0.05 • Insulation Resistance: C≤0.02 µF: ≥10000 MΩ, C>0.02 µF: CR products ≥ 200 MΩ (measured at the rated voltage and 1 minute electrification) • Temperature Characteristics:

$$\text{Cap. Change} = \frac{\triangle C}{C20} \times 100\%$$

Where C20: Capacitance value in pF at the specified reference temperature of 20°C.

△C: Capacitance drifts in pF from the capacitance value at 20°C over the specified temperature range.

Temp. Char.	Max. Cap. Change	Temp. Range
Y5P	± 10%	-25°C to 85°C
Y5V	+30/-80%	-25°C to 85°C
Z4V	+30/-80%	0°C to 70°C

Class 1, Temperature Compensating

Features:

• Wide product range for temperature compensation • Liner temperature coefficient of capacitance • High stability of capacitance and close tolerance • Low loss at wide range of frequency **Applications:** • Temperature compensation of resonant circuit and filters • Where low losses and high stability of capacitance tolerance and high insulation resistance are required **Specifications:** Operating Temperature Range: -25°C to 85°C • Rated Voltage: 50 VDC, 500 VDC • Dielectric Withstanding Voltage: 300% of the rated voltage for 1 to 5 seconds (no damage occurs when the test voltage is applied between terminals) • Capacitance: measured at 1MHz ±20%, 5 Vrms. max. and 20°C within the specified tolerance - standard capacitance tolerance: ±0.25 pF (1 to 5 pF), ±0.5 pF (1 to 10 pF), ±1 pF (10pF), ±5% (Over 10 pF NP0), ±10% (Over 10 pF GP) • Q Factor: Cap. <30 pF: Q≥400+20XC (c: Rated capacitance in pF), Cap≥30 pF: Q≥1000 • Insulation Resistance: ≥10000 MΩ (measured at the rated voltage and 1 minute electrification) • Temperature Coefficient of Capacitance: Temperature Range: -25°C to 85°C, Reference Temperature:

$$20°C,\ T.C. = \frac{\triangle C}{C_{20} \times \triangle T}$$

Where: C20: Capacitance value in pF at the specified reference temperature of 20°C. △C: Capacitance drifts in pF from the capacitance value at 20°C. △T: The specified temperature range to be measured in °C.

Capacitance (pF)	Rated temperature Coefficient (ppm/°C)	
	NP0	GP
1 to 2	±250	+350 to -1000
3	±120	
4 and above	±60	

Voltage	Capacitance	Tolerance	Temperature Characteristics	Dimensions (mm)			Digi-Key Part No.	Pricing			Panasonic Part No.
				Diameter	Thickness	Lead Space		10	100	1,000	
RS Safety Type Class 1											
125	150pf	±20%	B	9.5	7.0	7.5	P4463A-ND	2.86	20.44	114.46	ECK-DRS151MB
125	1500pf	±20%	E	10.0	7.0	7.5	P4467A-ND	4.23	30.24	169.34	ECK-DRS152ME
125	4700pf	+80, -20%	V	11.5	7.0	7.5	P4472A-ND	3.57	25.48	142.69	ECK-DRS472ZV
Class 2 High Dielectric Constant											
25	.022µF	+80, -20%	Z4V	6.5	3.5	5.0	P4303A-ND	1.13	7.64	39.42	ECK-F1E223ZV
25	.033µF	+80, -20%	Z4V	8.5	3.5	5.0	P4305A-ND	1.29	8.68	44.80	ECK-F1E333ZV
25	.047µF	+80, -20%	Z4V	8.5	3.5	5.0	P4307A-ND	1.44	9.72	50.18	ECK-F1E473ZV
50	100pf	±10%	Y5P	5.0	3.5	2.5	P4037A-ND	.98	6.60	34.05	ECK-F1H101KB
50	330pf	±10%	Y5P	5.0	3.5	2.5	P4043A-ND	.98	6.60	34.05	ECK-F1H331KB
50	470pf	±10%	Y5P	5.0	3.5	2.5	P4045A-ND	.98	6.60	34.05	ECK-F1H471KB
50	2700pf	±10%	Y5P	6.5	3.5	5.0	P4054A-ND	1.18	7.99	41.22	ECK-F1H272KB
50	3900pf	±10%	Y5P	8.0	3.5	5.0	P4056A-ND	1.29	8.68	44.80	ECK-F1H392KB
50	4700pf	±10%	Y5P	8.0	3.5	5.0	P4057A-ND	1.29	8.68	44.80	ECK-F1H472KB
50	1000pf	+80, -20%	Y5V	4.5	3.5	2.5	P4060A-ND	.93	6.25	32.26	ECK-F1H102ZF
50	1500pf	+80, -20%	Y5V	5.0	3.5	2.5	P4061A-ND	.93	6.25	32.26	ECK-F1H152ZF
50	2200pf	+80, -20%	Y5V	5.0	3.5	2.5	P4062A-ND	.93	6.25	32.26	ECK-F1H222ZF
50	6800pf	+80, -20%	Y5V	6.5	3.5	5.0	P4065A-ND	1.03	6.94	35.84	ECK-F1H682ZF
500	150pf	±10%	Y5P	6.0	4.0	5.0	P4102A-ND	1.13	7.64	39.42	ECK-D2H151KB5
500	390pf	±10%	Y5P	6.0	4.0	5.0	P4107A-ND	1.13	7.64	39.42	ECK-D2H391KB5
500	470pf	±10%	Y5P	6.0	4.0	5.0	P4108A-ND	1.13	7.64	39.42	ECK-D2H471KB5
500	1500pf	±10%	Y5P	7.0	4.0	5.0	P4115A-ND	1.75	11.80	60.93	ECK-D2H152KB5
500	1800pf	±10%	Y5P	8.5	4.0	5.0	P4116A-ND	1.75	11.80	60.93	ECK-D2H182KB5
500	2700pf	±10%	Y5P	10.0	4.0	5.0	P4166A-ND	1.75	12.32	67.20	ECK-D2H272KB5
500	10000pf	±10%	Y5P	17.5	4.0	10.0	P4198A-ND	2.32	16.32	89.04	ECK-D2H103KB5
Class 1 Temperature Compensating											
50	15pf	±5%	GP	5.0	3.5	2.5	P4014A-ND	.93	6.25	32.26	ECC-F1H150J
50	39pf	±5%	GP	5.0	3.5	2.5	P4019A-ND	.93	6.25	32.26	ECC-F1H390J
50	56pf	±5%	GP	5.0	3.5	2.5	P4021A-ND	.93	6.25	32.26	ECC-F1H560J
50	180pf	±5%	GP	5.0	3.5	2.5	P4027A-ND	.93	6.25	32.26	ECC-F1H181J
50	270pf	±5%	GP	6.5	3.5	5.0	P4029A-ND	1.18	7.99	41.22	ECC-F1H271J
50	560pf	±5%	GP	9.5	3.5	5.0	P4033A-ND	1.24	8.33	43.01	ECC-F1H561J
50	1000pf	±5%	GP	10.5	3.5	5.0	P4036A-ND	1.83	12.94	70.56	ECC-F1H102J
50	12pf	±5%	NP0	5.0	3.5	2.5	P4445A-ND	1.60	10.76	55.55	ECC-F1H120JC
50	15pf	±5%	NP0	5.0	3.5	2.5	P4446A-ND	1.60	10.76	55.55	ECC-F1H150JC
50	56pf	±5%	NP0	6.5	3.5	5.0	P4453A-ND	1.97	13.86	75.60	ECC-F1H560JC
50	100pf	±5%	NP0	6.5	3.5	5.0	P4456A-ND	2.36	16.63	90.72	ECC-F1H101JC4
50	270pf	±5%	NP0	10.5	3.5	5.0	P4461A-ND	2.62	18.48	100.80	ECC-F1H271JC4
500	15pf	±10%	GP	6.0	3.5	5.0	P4002A-ND	1.66	11.16	57.60	ECC-D2H150K5
500	18pf	±10%	GP	6.0	3.5	5.0	P4003A-ND	1.66	11.16	57.60	ECC-D2H180K5
500	39pf	±10%	GP	6.0	3.5	5.0	P4007A-ND	1.66	11.16	57.60	ECC-D2H390K5
500	82pf	±10%	GP	7.0	3.5	5.0	P4011A-ND	1.66	11.16	57.60	ECC-D2H820K5
500	15pf	±5%	NP0	6.0	3.5	5.0	P4402A-ND	2.54	17.88	97.50	ECC-D2H150JC5
500	18pf	±5%	NP0	6.0	3.5	5.0	P4403A-ND	2.54	17.88	97.50	ECC-D2H180JC5
500	47pf	±5%	NP0	8.5	3.5	5.0	P4408A-ND	3.00	21.18	115.50	ECC-D2H470JC5
500	68pf	±5%	NP0	8.5	3.5	5.0	P4410A-ND	3.04	21.45	117.00	ECC-D2H680JC5
500	82pf	±5%	NP0	10.0	3.5	5.0	P4411A-ND	4.69	33.50	187.60	ECC-D2H820JC5
500	150pf	±5%	NP0	13.0	3.5	10.0	P4414A-ND	4.94	35.25	197.40	ECC-D2H151JC5

Panasonic Ceramic Disc Capacitors - KGE Series

High Voltage - Rated 1 to 3 kVDC, Temperature Char. SL/GP

FEATURES: • Wide operating temperature range: -25°C to 105°C • Low loss at wide frequency range and stable against high voltage pulses • Temperature stable (Char. SL/GP) • Flame-retardant insulating coating applied

RECOMMENDED APPLICATIONS: • Ballast circuit of LCD backlighting inverter • Snubber circuit of switching power supply • Horizontal resonance circuit of TV and CRT display • Inverter type lighting apparatus • High voltage pulse and DC circuits

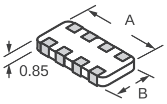
SPECIFICATIONS: • **Operating Temperature Range:** -25°C to 105°C • **Rated Voltage:** 1kVDC, 2kVDC, 3kVDC • **Dielectric Withstanding Voltage:** 200% of the rated voltage for 1 to 5 seconds • **Capacitance:** Within tolerance, when measured at 1 MHz ±20%, 1 to 5 Vrms, and 20°C • **Q Factor:** Capacitance <30pF: Q≥400+20xC (C: Rated Capacitance in pF). Capacitance ≥30pF: Q≥1000 at 1 MHz±20%, 1 to 5 Vrms, and 20°C • **Insulation Resistance:** 10,000 MΩ min. at 500 VDC and 1 minute electrification • **Temperature Characteristics:** Temperature Coefficient: +350 to -1000 ppm/°C over the temperature range of 20°C to 85°C

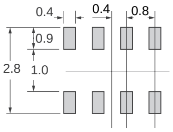
Voltage	Capacitance	Tolerance	Temp. Char.	Dimensions (mm) Diameter	Thickness	Lead Space	Digi-Key Part No.	Price Each 10	100	1,000	Panasonic Part No.
1K	12pf	±5%	GP	6.0	5.0	5.0	P10793-ND	.29	.20	.11	ECC-D3A120JGE
	15pf						P10794-ND	.29	.20	.11	ECC-D3A150JGE
	18pf						P10795-ND	.29	.20	.11	ECC-D3A180JGE
	22pf						P10796-ND	.29	.20	.11	ECC-D3A220JGE
	27pf						P10797-ND	.29	.20	.11	ECC-D3A270JGE
	33pf	±5%	GP	6.0	5.0	5.0	P10798-ND	.30	.21	.12	ECC-D3A330JGE
	39pf						P10799-ND	.30	.21	.12	ECC-D3A390JGE
	47pf						P10800-ND	.30	.21	.12	ECC-D3A470JGE
	56pf						P10801-ND	.30	.21	.12	ECC-D3A560JGE
	68pf						P10802-ND	.30	.21	.12	ECC-D3A680JGE
	82pf	±5%	GP	6.0	5.0	5.0	P10803-ND	.30	.21	.12	ECC-D3A820JGE
	100pf			7.0			P10804-ND	.32	.23	.13	ECC-D3A101JGE
	120pf			7.0			P10805-ND	.32	.23	.13	ECC-D3A121JGE
	150pf			8.0			P10806-ND	.31	.22	.13	ECC-D3A151JGE
	180pf			8.0			P10807-ND	.31	.22	.13	ECC-D3A181JGE
	220pf	±5%	GP	9.0	5.0	5.0	P10808-ND	.33	.24	.14	ECC-D3A221JGE
	270pf			9.0		5.0	P10809-ND	.34	.24	.14	ECC-D3A271JGE
	330pf			11.0		5.0	P10810-ND	.38	.27	.15	ECC-D3A331JGE
	390pf			11.0		5.0	P10811-ND	.40	.28	.16	ECC-D3A391JGE
	470pf			13.0		7.5	P10812-ND	.45	.32	.18	ECC-D3A471JGE
2K	12pf	±5%	GP	7.0	5.5	7.5	P10813-ND	.32	.23	.13	ECC-D3D120JGE
	15pf						P10814-ND	.32	.23	.13	ECC-D3D150JGE
	18pf						P10815-ND	.32	.23	.13	ECC-D3D180JGE
	22pf						P10816-ND	.32	.23	.13	ECC-D3D220JGE
	27pf						P10817-ND	.32	.23	.13	ECC-D3D270JGE

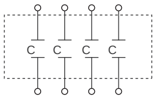
Voltage	Capacitance	Tolerance	Temp. Char.	Dimensions (mm) Diameter	Thickness	Lead Space	Digi-Key Part No.	Price Each 10	100	1,000	Panasonic Part No.
2K	33pf	±5%	GP	7.0	5.5	7.5	P10818-ND	.33	.23	.13	ECC-D3D330JGE
	39pf						P10819-ND	.33	.23	.13	ECC-D3D390JGE
	47pf						P10820-ND	.33	.23	.13	ECC-D3D470JGE
	56pf						P10821-ND	.34	.24	.14	ECC-D3D560JGE
	68pf						P10822-ND	.34	.24	.14	ECC-D3D680JGE
	82pf	±5%	GP	7.0	5.5	7.5	P10823-ND	.35	.25	.14	ECC-D3D820JGE
	100pf			8.0			P10824-ND	.35	.25	.14	ECC-D3D101JGE
	120pf			8.0			P10825-ND	.37	.26	.15	ECC-D3D121JGE
	150pf			9.0			P10826-ND	.38	.27	.16	ECC-D3D151JGE
	180pf			10.0			P10827-ND	.39	.28	.16	ECC-D3D181JGE
	220pf			10.0			P10828-ND	.39	.28	.16	ECC-D3D221JGE
3K	12pf	±5%	GP	7.0	6.0	7.5	P10829-ND	.41	.29	.17	ECC-D3F120JGE
	15pf						P10830-ND	.41	.29	.17	ECC-D3F150JGE
	18pf						P10831-ND	.41	.29	.17	ECC-D3F180JGE
	22pf						P10832-ND	.41	.29	.17	ECC-D3F220JGE
	27pf						P10833-ND	.41	.29	.17	ECC-D3F270JGE
	33pf	±5%	GP	7.0	6.0	7.5	P10834-ND	.42	.30	.17	ECC-D3F330JGE
	39pf			7.0			P10835-ND	.42	.30	.17	ECC-D3F390JGE
	47pf			7.0			P10836-ND	.42	.30	.17	ECC-D3F470JGE
	56pf			8.0			P10837-ND	.44	.31	.18	ECC-D3F560JGE
	68pf			8.0			P10838-ND	.44	.31	.18	ECC-D3F680JGE
	82pf	±5%	GP	9.0	6.0	7.5	P10839-ND	.44	.31	.18	ECC-D3F820JGE
	100pf			10.0			P10840-ND	.50	.36	.20	ECC-D3F101JGE
	120pf			10.0			P10841-ND	.51	.36	.21	ECC-D3F121JGE
	150pf			11.0			P10842-ND	.52	.37	.21	ECC-D3F151JGE

Multilayer Ceramic Chip Capacitor Arrays

ECJ-R Series







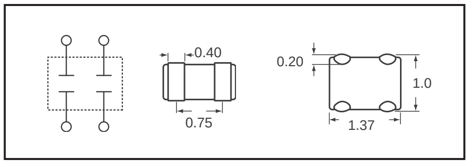
FEATURES: • Four capacitors built in type in the miniature size of 0805 and 1206 • Improvement of placement time on mounting machines • Low self-inductance and excellent frequency characteristics

RECOMMENDED APPLICATIONS: • Input/Output circuit computer's mother board - serial, video and parallel ports

Size Code	Type	WV DC	Cap.	Dimensions (mm) A	B	Tolerance	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	1,000	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
0805	X7R	50	470pF	2.0	1.25	±20%	P11998CT-ND *NEW!*	.40	.28	.20	.14	.11	P11998TR-ND *NEW!*	90.00/M	ECJ-TVB1H471M
			1000pF				P11996CT-ND *NEW!*	.40	.28	.20	.14	.11	P11996TR-ND *NEW!*	90.00/M	ECJ-TVB1H102M
			2200pF				P11997CT-ND *NEW!*	.40	.28	.20	.14	.11	P11997TR-ND *NEW!*	90.00/M	ECJ-TVB1H222M
		25	4700pF	2.0	1.25	±20%	P11995CT-ND *NEW!*	.40	.28	.20	.14	.11	P11995TR-ND *NEW!*	90.00/M	ECJ-TVB1E472M
		16	.01µF	2.0	1.25	±20%	P11994CT-ND *NEW!*	.35	.26	.19	.14	.11	P11994TR-ND *NEW!*	95.00/M	ECJ-TVB1C103M
	NP0	50	10pF	2.0	1.25	±1pF	P11999CT-ND *NEW!*	.40	.28	.20	.14	.11	P11999TR-ND *NEW!*	90.00/M	ECJ-TVC1H100F
			22pF			±10%	P12001CT-ND *NEW!*	.40	.28	.20	.14	.11	P12001TR-ND *NEW!*	90.00/M	ECJ-TVC1H220K
			47pF			±10%	P12003CT-ND *NEW!*	.40	.28	.20	.14	.11	P12003TR-ND *NEW!*	90.00/M	ECJ-TVC1H470K
			100pF			±10%	P12000CT-ND *NEW!*	.40	.28	.20	.14	.11	P12000TR-ND *NEW!*	90.00/M	ECJ-TVC1H101K
			220pF			±10%	P12002CT-ND *NEW!*	.40	.28	.20	.14	.11	P12002TR-ND *NEW!*	90.00/M	ECJ-TVC1H221K
	Y5V	16	.1µF	2.0	1.25	+80%/-20%	P12004CT-ND *NEW!*	.35	.26	.19	.14	.11	P12004TR-ND *NEW!*	95.00/M	ECJ-TVF1C104Z
1206	NP0	50	10pF	3.2	1.6	±1pF	P10580CT-ND	.40	.36	.31	.26	.22	P10580TR-ND	98.00/M	ECJ-RVC1H100F
			12pF			±10%	P10581CT-ND	.40	.36	.31	.26	.22	P10581TR-ND	141.00/M	ECJ-RVC1H120K
			15pF			±10%	P10582CT-ND	.29	.26	.22	.19	.16	P10582TR-ND	98.00/M	ECJ-RVC1H150K
			18pF			±10%	P10583CT-ND	.40	.36	.31	.26	.22	P10583TR-ND	141.00/M	ECJ-RVC1H180K
			22pF			±10%	P10584CT-ND	.29	.26	.22	.19	.16	P10584TR-ND	98.00/M	ECJ-RVC1H220K
		50	27pF	3.2	1.6	±10%	P10585CT-ND	.49	.43	.37	.31	.27	P10585TR-ND	171.00/M	ECJ-RVC1H270K
			33pF				P10586CT-ND	.43	.38	.32	.27	.23	P10586TR-ND	98.00/M	ECJ-RVC1H330K
			39pF				P10587CT-ND	.49	.43	.37	.31	.27	P10587TR-ND	171.00/M	ECJ-RVC1H390K
			47pF				P10588CT-ND	.35	.31	.27	.22	.19	P10588TR-ND	109.00/M	ECJ-RVC1H470K
			56pF				P10589CT-ND	.50	.44	.38	.32	.27	P10589TR-ND	175.00/M	ECJ-RVC1H560K
		50	68pF	3.2	1.6	±10%	P10590CT-ND	.38	.33	.29	.24	.21	P10590TR-ND	131.00/M	ECJ-RVC1H680K
			82pF				P10591CT-ND	.50	.44	.38	.32	.27	P10591TR-ND	175.00/M	ECJ-RVC1H820K
			100pF				P10592CT-ND	.44	.39	.34	.28	.24	P10592TR-ND	131.00/M	ECJ-RVC1H101K
			120pF				P10593CT-ND	.51	.45	.39	.32	.28	P10593TR-ND	179.00/M	ECJ-RVC1H121K
			150pF				P10594CT-ND	.38	.33	.29	.24	.21	P10594TR-ND	131.00/M	ECJ-RVC1H151K
		50	180pF	3.2	1.6	±10%	P10595CT-ND	.52	.46	.39	.33	.28	P10595TR-ND	182.00/M	ECJ-RVC1H181K
			220pF				P10596CT-ND	.45	.40	.34	.29	.25	P10596TR-ND	131.00/M	ECJ-RVC1H221K
			270pF				P10597CT-ND	.52	.46	.39	.33	.28	P10597TR-ND	182.00/M	ECJ-RVC1H271K
			330pF				P10598CT-ND	.38	.33	.29	.24	.21	P10598TR-ND	131.00/M	ECJ-RVC1H331K
			390pF				P10599CT-ND	.52	.46	.39	.33	.28	P10599TR-ND	182.00/M	ECJ-RVC1H391K
			470pF				P10600CT-ND	.45	.40	.34	.29	.25	P10600TR-ND	131.00/M	ECJ-RVC1H471K
	X7R	50	330pF	3.2	1.6	±20%	P10601CT-ND	.40	.35	.30	.25	.22	P10601TR-ND	140.00/M	ECJ-RVB1H331M
			470pF				P10602CT-ND	.40	.35	.30	.25	.22	P10602TR-ND	75.00/M	ECJ-RVB1H471M
			680pF				P10603CT-ND	.40	.35	.30	.25	.22	P10603TR-ND	75.00/M	ECJ-RVB1H681M
			1000pF				P10604CT-ND	.40	.35	.30	.25	.22	P10604TR-ND	75.00/M	ECJ-RVB1H102M
			1500pF				P10605CT-ND	.40	.35	.30	.25	.22	P10605TR-ND	75.00/M	ECJ-RVB1H152M
		50	2200pF	3.2	1.6	±20%	P10606CT-ND	.40	.36	.31	.26	.22	P10606TR-ND	75.00/M	ECJ-RVB1H222M
			3300pF				P10607CT-ND	.41	.36	.31	.26	.22	P10607TR-ND	81.00/M	ECJ-RVB1H332M
			4700pF				P10608CT-ND	.41	.36	.31	.26	.22	P10608TR-ND	81.00/M	ECJ-RVB1H472M
			6800pF				P10609CT-ND	.41	.36	.31	.26	.22	P10609TR-ND	81.00/M	ECJ-RVB1H682M
			10000pF				P10610CT-ND	.41	.36	.31	.26	.22	P10610TR-ND	81.00/M	ECJ-RVB1H103M
		16	.1µF	3.2	1.6	±20%	P11148CT-ND	.57	.50	.43	.36	.31	P11148TR-ND	119.00/M	ECJ-RVB1C104M
	Y5V	25	.1µF	3.2	1.6	+80%/-20%	P10611CT-ND	.34	.31	.26	.22	.19	P10611TR-ND	62.00/M	ECJ-RVF1E104Z
		10	1µF	3.2	1.6	+80%/-20%	P11993CT-ND *NEW!*	.57	.42	.30	.22	.17	P11993TR-ND *NEW!*	155.00/M	ECJ-RVF1A105Z

NEW! Multilayer Ceramic Chip Capacitors

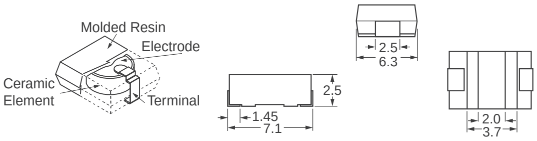
2-Fold Array Type



Size Code	Type	WV DC	Cap.	Tol.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	1,000	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
0504	X5R	10	.1µF	±20%	P11982CT-ND	.50	.37	.27	.19	.15	P11982TR-ND	137.00/M	ECJ-UVB1A104M
		6.3	1µF		P11981CT-ND	.57	.43	.31	.23	.18	P11981TR-ND	171.00/M	ECJ-UVB0J105M

Panasonic

High Voltage Ceramic Capacitors (SMD)



FEATURES:

• Resin molded type for reflow solderings • High reliability through disc capacitor element molded construction • Excellent "Voltage vs. Temperature Rise" through low loss ceramic dielectric • Temperature stable (SL/GP) and (B/Y5P)

SPECIFICATIONS:

• Operating Temperature Range: -25°C to +105°C • Insulation Resistance: 10000MΩ min. at 500VDC and 1 min. electrification • Q or Dissipation Factor (tan δ): *SL/GP Temp. Char.:* C < 30pF: Q ≥ 400+20 C (C:cap.pF), C ≥ 30pF: Q ≥ 1000 at 1MHz, 1-5Vrms and 20°C *B/Y5P Temp. Char.:* D.F. (tan δ)≤0.025 at 1kHz, 1-5Vrms and 20°C • Temperature Characteristics: *SL/GP* Temp. Coefficient: +350 to -1000ppm/°C *B/Y5P* Max. Capacitance Change: ΔC/C≤±10% (Temperature Range: -25°C to +85°C) • Capacitance: *SL/GP Temp. Char.:* 1MHz, 1-5Vrms and 20°C *B/Y5P Temp. Char.:* 1kHz, 1-5Vrms and 20°C • Dielectric Withstanding Voltage: *SL/GP Temp. Char.,* (voltage 4kVDC): 150% of the rated voltage for 1-5 seconds *SL/GP Temp. Char.,* (voltage 2-3kVDC): 200% of the rated voltage for 1-5 sec. *B/Y5P Temp. Char.:* 200% of the rated voltage for 1-5 seconds

RECOMMENDED APPLICATIONS:

• Output circuit of LCD backlighting inverter • Snubber circuit of switching power supply • High voltage circuit

Voltage	Capacitance	Capac. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	TR Pricing 2,000	Panasonic Part No.
1KVDC	390pF	±10	B/Y5P	PCC2099CT-ND	.99	.75	.56	PCC2099TR-ND	322.01/M	ECK-T3A391KB
1KVDC	470pF	±10	B/Y5P	PCC2100CT-ND	.99	.75	.56	PCC2100TR-ND	322.01/M	ECK-T3A471KB
2KVDC	68pF	±5	SL/GP	PCC2091CT-ND	.99	.75	.56	PCC2091TR-ND	321.36/M	ECC-T3D680JG
2KVDC	100pF	±10	B/Y5P	PCC2092CT-ND	.99	.75	.56	PCC2092TR-ND	322.01/M	ECK-T3D101KB
2KVDC	120pF	±10	B/Y5P	PCC2093CT-ND	1.10	.83	.62	PCC2093TR-ND	357.76/M	ECK-T3D121KB
2KVDC	150pF	±10	B/Y5P	PCC2094CT-ND	1.10	.83	.62	PCC2094TR-ND	357.76/M	ECK-T3D151KB
2KVDC	180pF	±10	B/Y5P	PCC2095CT-ND	1.10	.83	.62	PCC2095TR-ND	357.76/M	ECK-T3D181KB
2KVDC	220pF	±10	B/Y5P	PCC2096CT-ND	1.10	.83	.62	PCC2096TR-ND	357.76/M	ECK-T3D221KB
2KVDC	270pF	±10	B/Y5P	PCC2097CT-ND	1.10	.83	.62	PCC2097TR-ND	357.76/M	ECK-T3D271KB
2KVDC	330pF	±10	B/Y5P	PCC2098CT-ND	1.10	.83	.62	PCC2098TR-ND	357.76/M	ECK-T3D331KB
3KVDC	10pF	±5	SL/GP	PCC100JCT-ND	2.92	2.21	1.67	PCC100JTR-ND	357.00/M	ECC-T3F100JG
3KVDC	12pF	±5	SL/GP	PCC120JCT-ND	2.92	2.21	1.67	PCC120JTR-ND	357.00/M	ECC-T3F120JG
3KVDC	15pF	±5	SL/GP	PCC150JCT-ND	2.92	2.21	1.67	PCC150JTR-ND	357.00/M	ECC-T3F150JG
3KVDC	18pF	±5	SL/GP	PCC180JCT-ND	2.92	2.21	1.67	PCC180JTR-ND	357.00/M	ECC-T3F180JG
3KVDC	22pF	±5	SL/GP	PCC220JCT-ND	2.92	2.21	1.67	PCC220JTR-ND	357.00/M	ECC-T3F220JG
3KVDC	27pF	±5	SL/GP	PCC270JCT-ND	2.92	2.21	1.67	PCC270JTR-ND	357.00/M	ECC-T3F270JG
3KVDC	33pF	±5	SL/GP	PCC330JCT-ND	2.92	2.21	1.67	PCC330JTR-ND	357.00/M	ECC-T3F330JG
3KVDC	39pF	±5	SL/GP	PCC390JCT-ND	2.92	2.21	1.67	PCC390JTR-ND	357.00/M	ECC-T3F390JG
3KVDC	47pF	±5	SL/GP	PCC470JCT-ND	2.92	2.21	1.67	PCC470JTR-ND	357.00/M	ECC-T3F470JG
3KVDC	56pF	±5	SL/GP	PCC560JCT-ND	2.92	2.21	1.67	PCC560JTR-ND	357.00/M	ECC-T3F560JG
4KVDC	10pF	±5	SL/GP	PCC2082CT-ND	1.21	.91	.68	PCC2082TR-ND	392.86/M	ECC-T3G100JG
4KVDC	12pF	±5	SL/GP	PCC2083CT-ND	1.21	.91	.68	PCC2083TR-ND	392.86/M	ECC-T3G120JG
4KVDC	15pF	±5	SL/GP	PCC2084CT-ND	1.21	.91	.68	PCC2084TR-ND	392.86/M	ECC-T3G150JG
4KVDC	18pF	±5	SL/GP	PCC2085CT-ND	1.21	.91	.68	PCC2085TR-ND	392.86/M	ECC-T3G180JG
4KVDC	22pF	±5	SL/GP	PCC2086CT-ND	1.21	.91	.68	PCC2086TR-ND	392.86/M	ECC-T3G220JG
4KVDC	27pF	±5	SL/GP	PCC2087CT-ND	1.21	.91	.68	PCC2087TR-ND	392.86/M	ECC-T3G270JG
4KVDC	33pF	±5	SL/GP	PCC2088CT-ND	1.21	.91	.68	PCC2088TR-ND	392.86/M	ECC-T3G330JG
4KVDC	39pF	±5	SL/GP	PCC2089CT-ND	1.21	.91	.68	PCC2089TR-ND	392.86/M	ECC-T3G390JG
4KVDC	47pF	±5	SL/GP	PCC2090CT-ND	1.21	.91	.68	PCC2090TR-ND	392.86/M	ECC-T3G470JG

Panasonic

Ceramic Capacitors for Safety Regulations - Type BC (SMD)

FEATURES: • Resin molded type for reflow soldering surface mountings • High reliability through disc capacitor element molded construction • Related by IEC 384-14 sub-class Y2/X1 and Japan Domestic Safety Regulations • One standard size cover wide capacitance range for 1000pF to 4700pF

APPLICATIONS: • On-board type power module • DC-DC Converter • FAX Modulator-Demodulator

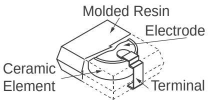


Fig. 1

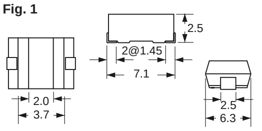
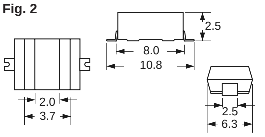


Fig. 2



Voltage	Capacitance	Capac. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
Fig. 1 – J-Lead										
250VAC	1000pF	±20	E	P10739CT-ND	1.86	1.46	1.07	P10739TR-ND	674.40/M	ECK-TBC102ME
250VAC	1500pF	±20	E	P10740CT-ND	1.86	1.46	1.07	P10740TR-ND	674.40/M	ECK-TBC152ME
250VAC	2200pF	±20	E	P10741CT-ND	1.86	1.46	1.07	P10741TR-ND	674.40/M	ECK-TBC222ME
250VAC	3300pF	±20	F	P10742CT-ND	1.86	1.46	1.07	P10742TR-ND	674.40/M	ECK-TBC332MF
250VAC	4700pF	±20	F	P10743CT-ND	1.86	1.46	1.07	P10743TR-ND	674.40/M	ECK-TBC472MF
Fig. 2 – Gull-Wing										
250VAC	1000pF	±20	E	P10744CT-ND	1.86	1.46	1.07	P10744TR-ND	681.80/M	ECK-TBC102MEM
250VAC	1500pF	±20	E	P10745CT-ND	1.86	1.46	1.07	P10745TR-ND	681.80/M	ECK-TBC152MEM
250VAC	2200pF	±20	E	P10746CT-ND	1.86	1.46	1.07	P10746TR-ND	681.80/M	ECK-TBC222MEM
250VAC	3300pF	±20	F	P10747CT-ND	1.86	1.46	1.07	P10747TR-ND	681.80/M	ECK-TBC332MFM
250VAC	4700pF	±20	F	P10748CT-ND	1.86	1.46	1.07	P10748TR-ND	681.80/M	ECK-TBC472MFM

Panasonic

Ceramic Capacitors for Safety Regulations - Type FC (Sub-Class Y2) (SMD)

FEATURES:

• Safety Capacitor for reflow soldering process • Approved by SEMKO (IEC60384-14/EN132400 Subclass Y2) and UL/CSA (Line by pass Capacitors) • High reliability through disc capacitor element with resin molded construction

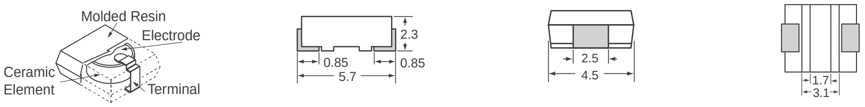
RECOMMENDED APPLICATIONS:

• DC-DC Converter, Power module • MODEM, xDSL • Application EX. (MODEM)

RATINGS:

• **Dimensions:** 5.7L x 4.5W X 2.3T (mm) • **Operating Temperature Range:** -25ºC to 100ºC • **Voltage Proof:** 1500VAC, 1 minute

Temp. Char.	Cap. Change	Temp. Range
SL	+350 to -1000ppm/°C	+20°C to +85°C
B	±10% Max.	-20°C to +85°C
E	+20, -55% Max.	-20°C to +85°C
F	+30, -80% Max.	-20°C to +85°C
The reference temperature: 20°C		



Voltage	Capacitance	Capacitance Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Panasonic Part No.
250VAC	5pF	±0.5pF	SL	P11424CT-ND	1.32	1.04	.95	P11424TR-ND	707.00/M	ECC-TFC050DG
250VAC	10pF	±0.5pF	SL	P11425CT-ND	1.32	1.04	.95	P11425TR-ND	707.00/M	ECC-TFC100DG
250VAC	22pF	±5%	SL	P11426CT-ND	1.32	1.04	.95	P11426TR-ND	673.00/M	ECC-TFC220JG
250VAC	47pF	±10%	B	P11427CT-ND	1.26	1.00	.91	P11427TR-ND	674.00/M	ECK-TFC470KB
250VAC	100pF	±10%	B	P11428CT-ND	1.26	1.00	.91	P11428TR-ND	674.00/M	ECK-TFC101KB
250VAC	150pF	±10%	B	P11429CT-ND	1.26	1.00	.91	P11429TR-ND	674.00/M	ECK-TFC151KB
250VAC	220pF	±10%	B	P11430CT-ND	1.26	1.00	.91	P11430TR-ND	674.00/M	ECK-TFC221KB
250VAC	330pF	±10%	B	P11431CT-ND	1.26	1.00	.91	P11431TR-ND	674.00/M	ECK-TFC331KB
250VAC	470pF	±10%	B	P11432CT-ND	1.26	1.00	.91	P11432TR-ND	674.00/M	ECK-TFC471KB
250VAC	1000pF	±10%	B	P11433CT-ND	1.79	1.41	1.28	P11433TR-ND	954.00/M	ECK-TFC102KB
250VAC	1000pF	±20%	E	P11434CT-ND	1.26	1.00	.91	P11434TR-ND	674.00/M	ECK-TFC102ME
250VAC	1500pF	±20%	F	P11435CT-ND	1.26	1.00	.91	P11435TR-ND	674.00/M	ECK-TFC152MF
250VAC	2200pF	±20%	F	P11436CT-ND	1.32	1.04	.95	P11436TR-ND	716.00/M	ECK-TFC222MF

Panasonic

Ceramic Disc Capacitors - Type GL

UL 1414 • CSA C22.2 APPROVED

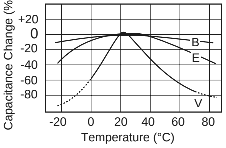
FEATURES:

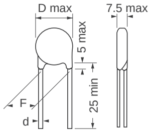
- Rated: 250VAC
- CSA rating: 125VAC

APPLICATIONS:

- Antenna coupling
- Line-bypass and Across-the-line
- Switching surge killer, etc.

Temperature Characteristics





Voltage	Capacitance	Tolerance	Temp. Char.	Dimensions (mm) Dia.	Thickness	Lead Space	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
250	100pF	±20%	B	8.0	5.5	7.5	P4484-ND	.61	.46	.33	.19	ECK-DGL101MB
250	150pF	±20%	B	8.0	5.5	7.5	P4485-ND	.61	.46	.33	.19	ECK-DGL150MB
250	220pF	±20%	B	8.0	5.5	7.5	P4486-ND	.61	.46	.33	.19	ECK-DGL221MB
250	330pF	±20%	B	8.0	5.5	7.5	P4487-ND	.61	.46	.33	.19	ECK-DGL331MB
250	470pF	±20%	B	9.0	5.5	7.5	P4488-ND	.61	.46	.33	.19	ECK-DGL471MB
250	680pF	±20%	B	9.0	5.5	7.5	P4489-ND	.65	.48	.34	.20	ECK-DGL681MB
250	1000pF	±20%	E	9.0	5.5	7.5	P4490-ND	.52	.39	.28	.16	ECK-DGL102ME
250	1500pF	±20%	E	11.0	5.5	7.5	P4491-ND	.70	.52	.39	.22	ECK-DGL152ME
250	2200pF	±20%	E	12.0	5.5	7.5	P4492-ND	.83	.63	.46	.27	ECK-DGL222ME
250	3300pF	±20%	E	15.0	5.5	10.0	P4493-ND	.93	.70	.51	.30	ECK-DGL332ME
250	4700pF	±20%	E	17.0	5.5	10.0	P4494-ND	1.20	.90	.68	.40	ECK-DGL472ME
250	4700pF	+80%, -20%	V	12.0	5.5	7.5	P4495-ND	1.14	.85	.63	.36	ECK-DGL472ZV

Panasonic®

Improve Your Designs with High Capacitance Multilayer Ceramic Chip (MLCC) Capacitors

Engineering Kit of High Capacitance Multilayer Ceramic Chip (MLCC) Capacitors

PCC18-KIT-ND..**$49.95**

Contains 20 pieces each of 20 assorted values – 400 pieces total. Values range from 1µF to 22µF in case sizes 0402 - 1206. Temperature characteristic is X5R. Please call Digi-Key for details.

More options are available when choosing capacitors

Advances in ceramic technology have now increased your choices when selecting the best capacitor for your application. No longer are you restricted to Aluminum Electrolytic, Tantalum, or Chip Film Capacitors. High capacitance MLCC capacitors from Panasonic now offer higher capacitance and better performance. The superior reliability, ESR, and impedance of MLCCs can now be found in higher capacitance values.

Product Design Benefits

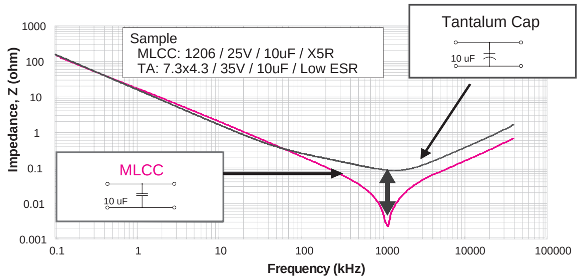
Several technology improvements have made it possible for Panasonic to put more capacitance (1µF and greater) into smaller case sizes (1210 down to 0402) while maintaining the largest possible operating voltage (6.3V up to 50V). These mechanical and electrical characteristics will enable you to make products having smaller size, less weight, increased performance, and at a lower cost, thereby making your products more competitive.

Electrical Performance Advantages of MLCCs

The lower Impedance and Equivalent Series Resistance (ESR) of MLCC Capacitors vs. Tantalum Capacitors, especially at the higher frequencies in the 100kHz to 1MHz range, provides a performance advantage for your decoupling needs.

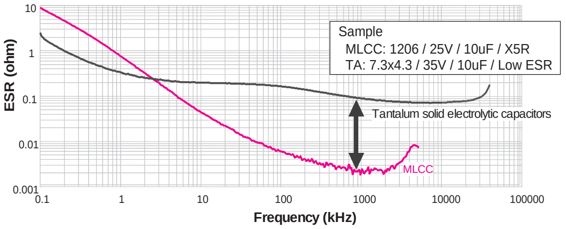
Lower Impedance (Z)

Impedance vs. Frequency



Lower Equivalent Series Resistance (ESR)

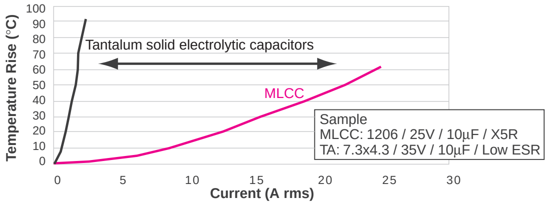
ESR vs. Frequency



Less Temperature Rise due to Ripple Current

When used in "smoothing" circuit applications, MLCCs offer significant advantages over tantalum capacitors. Reduced ESR results in lower component operating temperature than other capacitor solutions making your product less temperature dependent.

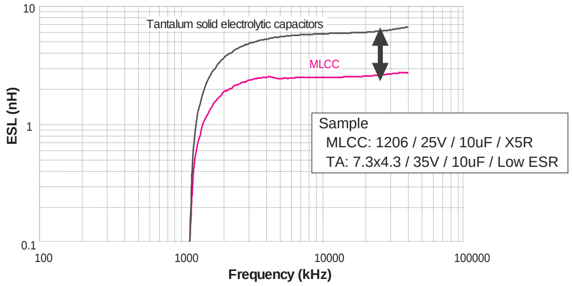
Temperature Rise vs. Ripple Current at 100kHz



Lower Equivalent Series Inductance (ESL)

Improved ESL, especially at higher frequencies, reduces the harmonic content of ripple current and high frequency noise.

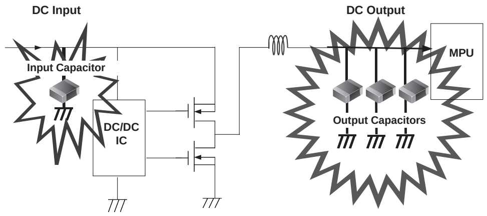
ESL vs. Frequency



Large Capacitance Values MLCC Applications

MLCCs offer lower impedance and ESR needed for the 100-500kHZ frequencies of today's high power DC-DC converters and switch mode power supplies. The performance advantage is so great that lower capacitance values provide better decoupling than higher values in other dielectrics.

DC-DC Converter Circuit



Select the best MLCC based on performance and cost!!

Available Values / Case Sizes / Operating Voltages

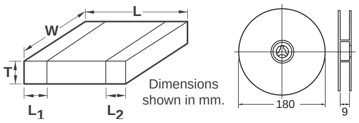
Panasonic Multilayer Ceramic Chip (MLCC) Capacitors

(Class II, with X5R / X7R Temperature Characteristics)

Case Size (EIA)	Voltage	Height (mm)	Available Capacitance Values (X5R, except as noted)						
			1 µF	2.2 µF	4.7 µF	10 µF	22 µF	47 µF	100 µF
0402	6.3V	0.5	▨						
0603	16V	0.8	▨						
	10V	0.8	▨						
	6.3V	0.8	▨	▨					
0805	16V	1.25	▨						
	10V	1.25	▨	▨					
	6.3V	1.25		▨	▨	▨			
1206	25V	1.6	X7R	▨	▨				
	16V	1.15	X7R						
		1.6		X7R	▨	▨			
	10V	1.6		▨	▨	▨			
	6.3V	1.6			▨	▨	▨		
1210	50V	2.0	▨						
	25V	2.0		▨	▨				
		2.5				▨			
	16V	2.0			▨	▨			
		2.5							
	10V	2.0				▨			
		2.5					▨		
	6.3V	2.5					▨	▨	▨

Panasonic Multilayer Ceramic Chip Capacitors

0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812



Size Code (EIA)	L	W	L1 / L2
0201	0.6±0.03	0.3±0.03	0.15±0.05
0402	1.00±0.05	0.50±0.05	0.20±0.10
0508	1.25±0.15	2.00±0.15	0.20±0.10
0603	1.60±0.10	0.80±0.10	0.30±0.20
0612	1.60±0.20	3.20±0.20	0.30±0.20
0805	2.00±0.10	1.25±0.10	0.50±0.25
1206	3.20±0.15	1.60±0.15	0.60±0.30
1210	3.20±0.30	2.50±0.20	0.60±0.30
1812	4.50±0.30	3.20±0.30	0.90±0.60

FEATURES:

- Small in size and wide capacitance range
- Superior humidity characteristic and long life due to the monolithic construction
- Excellent solderability and resistance to soldering heat due to terminals with three layers of silver nickel and solder
- Low self-inductance and excellent frequency characteristic

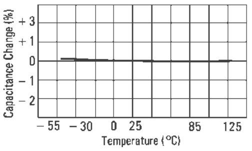
RECOMMENDED APPLICATIONS:

Class 1 (T.C. Type): Temperature compensations, tuned circuits and filter circuits, where low loss and high stability of capacitance and high insulation resistance are required.

Class 2 (HI-K type): Coupling and By-pass, where low loss and high stability of capacitance are not so important.

NP0 Type - Class 1:
- Operating temperature range: -55°C ~+125°C

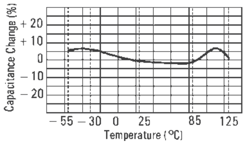
Temperature Coefficient



X7R Type - Class 2:
- Operating temperature range: -55°C ~+125°C

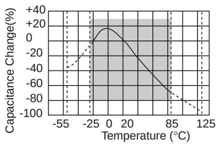
X5R Type - Class 2:
- Operating temperature range: -55°C ~+85°C

Temperature Coefficient



Y5V Type - Class 2:
- Operating temperature range: -30°C ~+85°C (F Type: -25°C ~+85°C°)

Temperature Coefficient



† *NOTE:* Panasonic is in the process of changing all MLCC part numbers to a standardized system. This is a part number change only and does not affect the electrical or mechanical specifications. As a result of this change, Digi-Key may ship parts labeled with either the old or new number. Parts that **do not** have a new Panasonic part number listed will be subject to availability beginning March 2001 and are not recommended for new design. Please contact Digi-Key for a direct replacement.

Size Code	Type	WV DC	Cap.	Tolerance	Dim. (mm) T	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Old † Panasonic Part No.	New † Panasonic Part No.
							10	100	500	1,000		Size	Pricing		
0201	NP0	25	0.5pF	±.25pF	0.30	PCC2101CT-ND	2.08	14.84	53.42	83.10	PCC2101TR-ND	15,000	21.00/M	ECJ-ZEC1E0R5C	ECJ-ZEC1E0R5C
			1.0pF	±.25pF	0.30	PCC2102CT-ND	2.08	14.84	53.42	83.10	PCC2102TR-ND	15,000	21.00/M	ECJ-ZEC1E010C	ECJ-ZEC1E010C
			1.5pF	±.25pF	0.30	PCC2103CT-ND	2.08	14.84	53.42	83.10	PCC2103TR-ND	15,000	21.00/M	ECJ-ZEC1E1R5C	ECJ-ZEC1E1R5C
			2.0pF	±.25pF	0.30	PCC2104CT-ND	2.08	14.84	53.42	83.10	PCC2104TR-ND	15,000	21.00/M	ECJ-ZEC1E020C	ECJ-ZEC1E020C
			3.0pF	±.25pF	0.30	PCC2105CT-ND	2.08	14.84	53.42	83.10	PCC2105TR-ND	15,000	21.00/M	ECJ-ZEC1E030C	ECJ-ZEC1E030C
			4.0pF	±.25pF	0.30	PCC2106CT-ND	2.08	14.84	53.42	83.10	PCC2106TR-ND	15,000	21.00/M	ECJ-ZEC1E040C	ECJ-ZEC1E040C
			5.0pF	±.25pF	0.30	PCC2107CT-ND	2.08	14.84	53.42	83.10	PCC2107TR-ND	15,000	21.00/M	ECJ-ZEC1E050C	ECJ-ZEC1E050C
			6.0pF	±.5pF	0.30	PCC2108CT-ND	2.08	14.84	53.42	83.10	PCC2108TR-ND	15,000	21.00/M	ECJ-ZEC1E060D	ECJ-ZEC1E060D
			7.0pF	±.5pF	0.30	PCC2109CT-ND	2.08	14.84	53.42	83.10	PCC2109TR-ND	15,000	21.00/M	ECJ-ZEC1E070D	ECJ-ZEC1E070D
			8.0pF	±.5pF	0.30	PCC2110CT-ND	2.08	14.84	53.42	83.10	PCC2110TR-ND	15,000	21.00/M	ECJ-ZEC1E080D	ECJ-ZEC1E080D
			9.0pF	±.5pF	0.30	PCC2111CT-ND	2.08	14.84	53.42	83.10	PCC2111TR-ND	15,000	21.00/M	ECJ-ZEC1E090D	ECJ-ZEC1E090D
			10pF	±.5pF	0.30	PCC2112CT-ND	2.08	14.84	53.42	83.10	PCC2112TR-ND	15,000	21.00/M	ECJ-ZEC1E100D	ECJ-ZEC1E100D
			12pF	±5%	0.30	PCC2113CT-ND	2.08	14.84	53.42	83.10	PCC2113TR-ND	15,000	21.00/M	ECJ-ZEC1E120J	ECJ-ZEC1E120J
			15pF	±5%	0.30	PCC2114CT-ND	2.08	14.84	53.42	83.10	PCC2114TR-ND	15,000	21.00/M	ECJ-ZEC1E150J	ECJ-ZEC1E150J
			18pF	±5%	0.30	PCC2115CT-ND	2.08	14.84	53.42	83.10	PCC2115TR-ND	15,000	21.00/M	ECJ-ZEC1E180J	ECJ-ZEC1E180J
			22pF	±5%	0.30	PCC2116CT-ND	2.08	14.84	53.42	83.10	PCC2116TR-ND	15,000	21.00/M	ECJ-ZEC1E220J	ECJ-ZEC1E220J
			27pF	±5%	0.30	PCC2117CT-ND	2.08	14.84	53.42	83.10	PCC2117TR-ND	15,000	21.00/M	ECJ-ZEC1E270J	ECJ-ZEC1E270J
			33pF	±5%	0.30	PCC2118CT-ND	2.08	14.84	53.42	83.10	PCC2118TR-ND	15,000	21.00/M	ECJ-ZEC1E330J	ECJ-ZEC1E330J
		16	39pF	±5%	0.30	PCC2119CT-ND	2.74	19.60	70.56	109.76	PCC2119TR-ND	15,000	21.00/M	ECJ-ZEC1C390J	ECJ-ZEC1C390J
			47pF	±5%	0.30	PCC2120CT-ND	2.74	19.60	70.56	109.76	PCC2120TR-ND	15,000	21.00/M	ECJ-ZEC1C470J	ECJ-ZEC1C470J
			56pF	±5%	0.30	PCC2121CT-ND	2.74	19.60	70.56	109.76	PCC2121TR-ND	15,000	21.00/M	ECJ-ZEC1C560J	ECJ-ZEC1C560J
			68pF	±5%	0.30	PCC2122CT-ND	2.74	19.60	70.56	109.76	PCC2122TR-ND	15,000	21.00/M	ECJ-ZEC1C680J	ECJ-ZEC1C680J
			82pF	±5%	0.30	PCC2123CT-ND	2.74	19.60	70.56	109.76	PCC2123TR-ND	15,000	21.00/M	ECJ-ZEC1C820J	ECJ-ZEC1C820J
			100pF	±5%	0.30	PCC2124CT-ND	2.74	19.60	70.56	109.76	PCC2124TR-ND	15,000	21.00/M	ECJ-ZEC1C101J	ECJ-ZEC1C101J
	X7R	25	150pF	±10%	0.30	PCC2125CT-ND	2.08	14.84	53.42	83.10	PCC2125TR-ND	15,000	21.00/M	ECJ-ZEB1E151K	ECJ-ZEB1E151K
			220pF	±10%	0.30	PCC2126CT-ND	2.08	14.84	53.42	83.10	PCC2126TR-ND	15,000	21.00/M	ECJ-ZEB1E221K	ECJ-ZEB1E221K
			331pF	±10%	0.30	PCC2127CT-ND	2.08	14.84	53.42	83.10	PCC2127TR-ND	15,000	21.00/M	ECJ-ZEB1E331K	ECJ-ZEB1E331K
			470pF	±10%	0.30	PCC2128CT-ND	2.08	14.84	53.42	83.10	PCC2128TR-ND	15,000	21.00/M	ECJ-ZEB1E471K	ECJ-ZEB1E471K
			680pF	±10%	0.30	PCC2129CT-ND	2.08	14.84	53.42	83.10	PCC2129TR-ND	15,000	21.00/M	ECJ-ZEB1E681K	ECJ-ZEB1E681K
			1000pF	±10%	0.30	PCC2130CT-ND	2.08	14.84	53.42	83.10	PCC2130TR-ND	15,000	21.00/M	ECJ-ZEB1E102K	ECJ-ZEB1E102K
		16	1500pF	±10%	0.30	PCC2131CT-ND	2.74	19.60	70.56	109.76	PCC2131TR-ND	15,000	21.00/M	ECJ-ZEB1C152K	ECJ-ZEB1C152K
			2200pF	±10%	0.30	PCC2132CT-ND	2.74	19.60	70.56	109.76	PCC2132TR-ND	15,000	21.00/M	ECJ-ZEB1C222K	ECJ-ZEB1C222K
		10	3300pF	±10%	0.30	PCC2133CT-ND	2.98	21.28	76.61	119.17	PCC2133TR-ND	15,000	21.00/M	ECJ-ZEB1A332K	ECJ-ZEB1A332K
	X5R	6.3	4700pF	±10%	0.30	PCC2134CT-ND	3.21	22.96	82.66	128.58	PCC2134TR-ND	15,000	21.00/M	ECJ-ZEB0J472K	ECJ-ZEB0J472K
			6800pF	±10%	0.30	PCC2135CT-ND	3.21	22.96	82.66	128.58	PCC2135TR-ND	15,000	21.00/M	ECJ-ZEB0J682K	ECJ-ZEB0J682K
			10000pF	±10%	0.30	PCC2136CT-ND	3.21	22.96	82.66	128.58	PCC2136TR-ND	15,000	21.00/M	ECJ-ZEB0J103K	ECJ-ZEB0J103K
0402	NP0	50	0.5pF	±.25pF	0.50	PCC0R5CQCT-ND•	2.05	14.48	50.01	78.96	PCC0R5CQTR-ND	10,000	8.00/M	ECU-E1H0R5CCQ	ECJ-0EC1H0R5C
			1.0pF	±.25pF	0.50	PCC010CQCT-ND•	2.05	14.48	50.01	78.96	PCC010CQTR-ND	10,000	8.00/M	ECU-E1H010CCQ	ECJ-0EC1H010C
			1.5pF	±.25pF	0.50	PCC1R5CQCT-ND•	2.05	14.48	50.01	78.96	PCC1R5CQTR-ND	10,000	8.00/M	ECU-E1H1R5CCQ	ECJ-0EC1H1R5C
			2.0pF	±.25pF	0.50	PCC020CQCT-ND•	2.05	14.48	50.01	78.96	PCC020CQTR-ND	10,000	8.00/M	ECU-E1H020CCQ	ECJ-0EC1H020C
			3.0pF	±.25pF	0.50	PCC030CQCT-ND•	2.05	14.48	50.01	78.96	PCC030CQTR-ND	10,000	8.00/M	ECU-E1H030CCQ	ECJ-0EC1H030C
			4.0pF	±.25pF	0.50	PCC040CQCT-ND•	2.05	14.48	50.01	78.96	PCC040CQTR-ND	10,000	8.00/M	ECU-E1H040CCQ	ECJ-0EC1H040C
			5.0pF	±.25pF	0.50	PCC050CQCT-ND•	2.05	14.48	50.01	78.96	PCC050CQTR-ND	10,000	8.00/M	ECU-E1H050CCQ	ECJ-0EC1H050C
			6.0pF	±.5pF	0.50	PCC060CQCT-ND•	2.05	14.48	50.01	78.96	PCC060CQTR-ND	10,000	8.00/M	ECU-E1H060DCQ	ECJ-0EC1H060D
			7.0pF	±.5pF	0.50	PCC070CQCT-ND•	2.05	14.48	50.01	78.96	PCC070CQTR-ND	10,000	8.00/M	ECU-E1H070DCQ	ECJ-0EC1H070D
			8.0pF	±.5pF	0.50	PCC080CQCT-ND•	2.05	14.48	50.01	78.96	PCC080CQTR-ND	10,000	8.00/M	ECU-E1H080DCQ	ECJ-0EC1H080D
			9.0pF	±.5pF	0.50	PCC090CQCT-ND•	2.05	14.48	50.01	78.96	PCC090CQTR-ND	10,000	8.00/M	ECU-E1H090DCQ	ECJ-0EC1H090D
			10pF	±.5pF	0.50	PCC100CQCT-ND•	2.05	14.48	50.01	78.96	PCC100CQTR-ND	10,000	8.00/M	ECU-E1H100DCQ	ECJ-0EC1H100D
			11pF	±5%	0.50	PCC110CQCT-ND	2.38	16.78	57.95	91.50	—	—	—	ECU-E1H110JCQ	(Not for new design)
			12pF	±5%	0.50	PCC120CQCT-ND•	2.05	14.48	50.01	78.96	PCC120CQTR-ND	10,000	8.00/M	ECU-E1H120JCQ	ECJ-0EC1H120J
			15pF	±5%	0.50	PCC150CQCT-ND•	2.05	14.48	50.01	78.96	PCC150CQTR-ND	10,000	8.00/M	ECU-E1H150JCQ	ECJ-0EC1H150J
			18pF	±5%	0.50	PCC180CQCT-ND•	2.05	14.48	50.01	78.96	PCC180CQTR-ND	10,000	8.00/M	ECU-E1H180JCQ	ECJ-0EC1H180J
			20pF	±5%	0.50	PCC200CQCT-ND	2.38	16.78	57.95	91.50	PCC200CQTR-ND	10,000	76.00/M	ECU-E1H200JCQ	(Not for new design)
			22pF	±5%	0.50	PCC220CQCT-ND•	2.05	14.48	50.01	78.96	PCC220CQTR-ND	10,000	8.00/M	ECU-E1H220JCQ	ECJ-0EC1H220J
			27pF	±5%	0.50	PCC270CQCT-ND•	2.05	14.48	50.01	78.96	PCC270CQTR-ND	10,000	8.00/M	ECU-E1H270JCQ	ECJ-0EC1H270J
			33pF	±5%	0.50	PCC330CQCT-ND•	2.05	14.48	50.01	78.96	PCC330CQTR-ND	10,000	8.00/M	ECU-E1H330JCQ	ECJ-0EC1H330J
			36pF	±5%	0.50	PCC360CQCT-ND	2.38	16.78	57.95	91.50	—	—	—	ECU-E1H360JCQ	(Not for new design)
			39pF	±5%	0.50	PCC390CQCT-ND•	2.05	14.48	50.01	78.96	PCC390CQTR-ND	10,000	8.00/M	ECU-E1H390JCQ	ECJ-0EC1H390J
			43pF	±5%	0.50	PCC430CQCT-ND	2.38	16.78	57.95	91.50	PCC430CQTR-ND	10,000	76.00/M	ECU-E1H430JCQ	(Not for new design)
			47pF	±5%	0.50	PCC470CQCT-ND•	2.05	14.48	50.01	78.96	PCC470CQTR-ND	10,000	8.00/M	ECU-E1H470JCQ	ECJ-0EC1H470J

(Continued)

Panasonic Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. (mm) T	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Old † Panasonic Part No.	New † Panasonic Part No.
							10	100	500	1,000		Size	Pricing		
0402	NP0	50	56pF	±5%	0.50	PCC560CQCT-ND•	2.05	14.48	50.01	78.96	PCC560CQTR-ND	10,000	8.00/M	ECU-E1H560JCQ	ECJ-0EC1H560J
			62pF	±5%	0.50	PCC620CQCT-ND	2.38	16.78	57.95	91.50	—	—	—	ECU-E1H620JCQ	(Not for new design)
			68pF	±5%	0.50	PCC680CQCT-ND•	2.05	14.48	50.01	78.96	PCC680CQTR-ND	10,000	8.00/M	ECU-E1H680JCQ	ECJ-0EC1H680J
			82pF	±5%	0.50	PCC820CQCT-ND•	2.18	15.40	53.20	84.00	PCC820CQTR-ND	10,000	8.00/M	ECU-E1H820JCQ	ECJ-0EC1H820J
			91pF	±5%	0.50	PCC910CQCT-ND	2.61	18.43	63.65	100.50	—	—	—	ECU-E1H910JCQ	(Not for new design)
			100pF	±5%	0.50	PCC101CQCT-ND•	2.18	15.40	53.20	84.00	PCC101CQTR-ND	10,000	9.00/M	ECU-E1H101JCQ	ECJ-0EC1H101J
			110pF	±5%	0.50	PCC111CQCT-ND	2.69	18.98	65.55	103.50	—	—	—	ECU-E1H111JCQ	(Not for new design)
			120pF	±5%	0.50	PCC121CQCT-ND•	2.27	16.02	55.33	87.36	PCC121CQTR-ND	10,000	9.00/M	ECU-E1H121JCQ	ECJ-0EC1H121J
			130pF	±5%	0.50	PCC131CQCT-ND	2.81	19.80	68.40	108.00	—	—	—	ECU-E1H131JCQ	(Not for new design)
			150pF	±5%	0.50	PCC151CQCT-ND•	2.40	16.94	58.52	92.40	PCC151CQTR-ND	10,000	9.00/M	ECU-E1H151JCQ	ECJ-0EC1H151J
			160pF	±5%	0.50	PCC161CQCT-ND	3.00	21.18	73.15	115.50	—	—	—	ECU-E1H161JCQ	(Not for new design)
			180pF	±5%	0.50	PCC181CQCT-ND•	2.39	17.08	61.49	95.65	PCC181CQTR-ND	10,000	9.00/M	ECU-E1H181JCQ	ECJ-0EC1H181J
			220pF	±5%	0.50	PCC221CQCT-ND•	2.67	19.04	68.54	106.62	PCC221CQTR-ND	10,000	9.00/M	ECU-E1H221JCQ	ECJ-0EC1H221J
	X7R	50	100pF	±10%	0.50	PCC1709CT-ND•	2.10	14.78	51.07	80.64	PCC1709TR-ND	10,000	8.00/M	ECU-E1H101KBQ	ECJ-0EB1H101K
			120pF	±10%	0.50	PCC1710CT-ND•	2.10	14.78	51.07	80.64	PCC1710TR-ND	10,000	8.00/M	ECU-E1H121KBQ	ECJ-0EB1H121K
			150pF	±10%	0.50	PCC1711CT-ND•	2.10	14.78	51.07	80.64	PCC1711TR-ND	10,000	8.00/M	ECU-E1H151KBQ	ECJ-0EB1H151K
			180pF	±10%	0.50	PCC1712CT-ND•	2.10	14.78	51.07	80.64	PCC1712TR-ND	10,000	8.00/M	ECU-E1H181KBQ	ECJ-0EB1H181K
			220pF	±10%	0.50	PCC1713CT-ND•	2.10	14.78	51.07	80.64	PCC1713TR-ND	10,000	8.00/M	ECU-E1H221KBQ	ECJ-0EB1H221K
			270pF	±10%	0.50	PCC1714CT-ND•	2.10	14.78	51.07	80.64	PCC1714TR-ND	10,000	8.00/M	ECU-E1H271KBQ	ECJ-0EB1H271K
			330pF	±10%	0.50	PCC1715CT-ND•	2.10	14.78	51.07	80.64	PCC1715TR-ND	10,000	8.00/M	ECU-E1H331KBQ	ECJ-0EB1H331K
			390pF	±10%	0.50	PCC1716CT-ND•	2.10	14.78	51.07	80.64	PCC1716TR-ND	10,000	8.00/M	ECU-E1H391KBQ	ECJ-0EB1H391K
			470pF	±10%	0.50	PCC1717CT-ND•	2.10	14.78	51.07	80.64	PCC1717TR-ND	10,000	8.00/M	ECU-E1H471KBQ	ECJ-0EB1H471K
			560pF	±10%	0.50	PCC1718CT-ND•	2.10	14.78	51.07	80.64	PCC1718TR-ND	10,000	8.00/M	ECU-E1H561KBQ	ECJ-0EB1H561K
			680pF	±10%	0.50	PCC1719CT-ND•	2.10	14.78	51.07	80.64	PCC1719TR-ND	10,000	8.00/M	ECU-E1H681KBQ	ECJ-0EB1H681K
			820pF	±10%	0.50	PCC1720CT-ND•	2.10	14.78	51.07	80.64	PCC1720TR-ND	10,000	8.00/M	ECU-E1H821KBQ	ECJ-0EB1H821K
			1000pF	±10%	0.50	PCC1721CT-ND•	2.10	14.78	51.07	80.64	PCC1721TR-ND	10,000	8.00/M	ECU-E1H102KBQ	ECJ-0EB1H102K
			1200pF	±10%	0.50	PCC1722CT-ND•	2.10	14.78	51.07	80.64	PCC1722TR-ND	10,000	8.00/M	ECU-E1H122KBQ	ECJ-0EB1H122K
			1500pF	±10%	0.50	PCC1723CT-ND•	2.10	14.78	51.07	80.64	PCC1723TR-ND	10,000	8.00/M	ECU-E1H152KBQ	ECJ-0EB1H152K
			1800pF	±10%	0.50	PCC1724CT-ND•	2.10	14.78	51.07	80.64	PCC1724TR-ND	10,000	8.00/M	ECU-E1H182KBQ	ECJ-0EB1H182K
			2200pF	±10%	0.50	PCC1725CT-ND•	2.10	14.78	51.07	80.64	PCC1725TR-ND	10,000	8.00/M	ECU-E1H222KBQ	ECJ-0EB1H222K
			2700pF	±10%	0.50	PCC1726CT-ND•	2.27	16.02	55.33	87.36	PCC1726TR-ND	10,000	8.00/M	ECU-E1H272KBQ	ECJ-0EB1H272K
			3300pF	±10%	0.50	PCC1727CT-ND•	2.45	17.25	59.58	94.08	PCC1727TR-ND	10,000	10.00/M	ECU-E1H332KBQ	ECJ-0EB1H332K
			3900pF	±10%	0.50	PCC1728CT-ND•	2.49	17.56	60.65	95.76	PCC1728TR-ND	10,000	8.00/M	ECU-E1H392KBQ	ECJ-0EB1H392K
		25	100pF	±10%	0.50	PCC1702CT-ND	2.05	14.48	50.01	78.96	PCC1702TR-ND	10,000	57.00/M	ECU-E1E101KBQ	ECJ-0EB1E101K
			120pF	±10%	0.50	PCC1703CT-ND	2.05	14.48	50.01	78.96	PCC1703TR-ND	10,000	56.00/M	ECU-E1E121KBQ	ECJ-0EB1E121K
			150pF	±10%	0.50	PCC1704CT-ND	2.05	14.48	50.01	78.96	PCC1704TR-ND	10,000	56.00/M	ECU-E1E151KBQ	ECJ-0EB1E151K
			180pF	±10%	0.50	PCC1705CT-ND	2.05	14.48	50.01	78.96	PCC1705TR-ND	10,000	56.00/M	ECU-E1E181KBQ	ECJ-0EB1E181K
			220pF	±10%	0.50	PCC1706CT-ND	2.05	14.48	50.01	78.96	PCC1706TR-ND	10,000	56.00/M	ECU-E1E221KBQ	ECJ-0EB1E221K
			270pF	±10%	0.50	PCC271BQCT-ND	2.05	14.48	50.01	78.96	PCC271BQTR-ND	10,000	56.00/M	ECU-E1E271KBQ	ECJ-0EB1E271K
			330pF	±10%	0.50	PCC331BQCT-ND	2.05	14.48	50.01	78.96	PCC331BQTR-ND	10,000	56.00/M	ECU-E1E331KBQ	ECJ-0EB1E331K
			391pF	±10%	0.50	PCC391BQCT-ND	2.05	14.48	50.01	78.96	PCC391BQTR-ND	10,000	56.00/M	ECU-E1E391KBQ	ECJ-0EB1E391K
			470pF	±10%	0.50	PCC471BQCT-ND	2.05	14.48	50.01	78.96	PCC471BQTR-ND	10,000	56.00/M	ECU-E1E471KBQ	ECJ-0EB1E471K
			560pF	±10%	0.50	PCC561BQCT-ND	2.05	14.48	50.01	78.96	PCC561BQTR-ND	10,000	56.00/M	ECU-E1E561KBQ	ECJ-0EB1E561K
			680pF	±10%	0.50	PCC681BQCT-ND	2.05	14.48	50.01	78.96	PCC681BQTR-ND	10,000	56.00/M	ECU-E1E681KBQ	ECJ-0EB1E681K
			820pF	±10%	0.50	PCC821BQCT-ND	2.05	14.48	50.01	78.96	PCC821BQTR-ND	10,000	56.00/M	ECU-E1E821KBQ	ECJ-0EB1E821K
			1000pF	±10%	0.50	PCC102BQCT-ND	2.05	14.48	50.01	78.96	PCC102BQTR-ND	10,000	56.00/M	ECU-E1E102KBQ	ECJ-0EB1E102K
			1200pF	±10%	0.50	PCC122BQCT-ND	2.05	14.48	50.01	78.96	PCC122BQTR-ND	10,000	56.00/M	ECU-E1E122KBQ	ECJ-0EB1E122K
			1500pF	±10%	0.50	PCC152BQCT-ND	2.05	14.48	50.01	78.96	PCC152BQTR-ND	10,000	56.00/M	ECU-E1E152KBQ	ECJ-0EB1E152K
			1800pF	±10%	0.50	PCC182BQCT-ND	2.05	14.48	50.01	78.96	PCC182BQTR-ND	10,000	56.00/M	ECU-E1E182KBQ	ECJ-0EB1E182K
			2200pF	±10%	0.50	PCC222BQCT-ND	2.05	14.48	50.01	78.96	PCC222BQTR-ND	10,000	56.00/M	ECU-E1E222KBQ	ECJ-0EB1E222K
			2700pF	±10%	0.50	PCC272BQCT-ND	2.23	15.71	54.26	85.68	PCC272BQTR-ND	10,000	61.00/M	ECU-E1E272KBQ	ECJ-0EB1E272K
			3300pF	±10%	0.50	PCC332BQCT-ND	2.40	16.94	58.52	92.40	PCC332BQTR-ND	10,000	65.00/M	ECU-E1E332KBQ	ECJ-0EB1E332K
			3900pF	±10%	0.50	PCC392BQCT-ND	2.45	17.25	59.58	94.08	PCC392BQTR-ND	10,000	67.00/M	ECU-E1E392KBQ	ECJ-0EB1E392K
			4700pF	±10%	0.50	PCC472BQCT-ND•	2.53	17.86	61.71	97.44	PCC472BQTR-ND	10,000	8.00/M	ECU-E1E472KBQ	ECJ-0EB1E472K
			5600pF	±10%	0.50	PCC1707CT-ND•	1.79	12.63	43.62	68.88	PCC1707TR-ND	10,000	8.00/M	ECU-E1E562KBQ	ECJ-0EB1E562K
			6800pF	±10%	0.50	PCC1708CT-ND•	1.79	12.63	43.62	68.88	PCC1708TR-ND	10,000	8.00/M	ECU-E1E682KBQ	ECJ-0EB1E682K
			8200pF	±10%	0.50	PCC2271CT-ND	1.79	12.63	43.62	68.88	PCC2271TR-ND	10,000	9.00/M	ECJ-0EB1E822K	ECJ-0EB1E822K
			.01µF	±10%	0.50	PCC2270CT-ND	1.79	12.63	43.62	68.88	PCC2270TR-ND	10,000	9.00/M	ECJ-0EB1E103K	ECJ-0EB1E103K
		16	5600pF	±10%	0.50	PCC562BQCT-ND	1.70	12.01	41.50	65.52	PCC562BQTR-ND	10,000	46.00/M	ECU-E1C562KBQ	ECJ-0EB1C562K
			6800pF	±10%	0.50	PCC682BQCT-ND	1.75	12.32	42.56	67.20	PCC682BQTR-ND	10,000	48.00/M	ECU-E1C682KBQ	ECJ-0EB1C682K
			8200pF	±10%	0.50	PCC822BQCT-ND•	1.79	12.63	43.62	68.88	PCC822BQTR-ND	10,000	49.00/M	ECU-E1C822KBQ	ECJ-0EB1C822K
			10000pF	±10%	0.50	PCC103BQCT-ND•	1.83	12.94	44.69	70.56	PCC103BQTR-ND	10,000	8.00/M	ECU-E1C103KBQ	ECJ-0EB1C103K
			12000pF	±10%	0.50	PCC1700CT-ND•	1.83	12.94	44.69	70.56	PCC1700TR-ND	10,000	8.00/M	ECU-E1C123KBQ	ECJ-0EB1C123K
			15000pF	±10%	0.50	PCC1701CT-ND•	1.83	12.94	44.69	70.56	PCC1701TR-ND	10,000	9.00/M	ECU-E1C153KBQ	ECJ-0EB1C153K
			18000pF	±10%	0.50	PCC2137CT-ND•	1.92	13.55	46.82	73.92	PCC2137TR-ND	10,000	11.00/M	ECJ-0EB1C183K	ECJ-0EB1C183K
			22000pF	±10%	0.50	PCC2138CT-ND•	1.92	13.55	46.82	73.92	PCC2138TR-ND	10,000	11.00/M	ECJ-0EB1C223K	ECJ-0EB1C223K
	X5R	10	27000pF	±10%	0.50	PCC2139CT-ND	1.92	13.55	46.82	73.92	PCC2139TR-ND	10,000	12.00/M	ECJ-0EB1A273K	ECJ-0EB1A273K
			33000pF	±10%	0.50	PCC2140CT-ND	1.92	13.55	46.82	73.92	PCC2140TR-ND	10,000	12.00/M	ECJ-0EB1A333K	ECJ-0EB1A333K
			39000pF	±10%	0.50	PCC2141CT-ND	1.92	13.55	46.82	73.92	PCC2141TR-ND	10,000	12.00/M	ECJ-0EB1A393K	ECJ-0EB1A393K
			47000pF	±10%	0.50	PCC2142CT-ND	2.01	14.17	48.94	77.28	PCC2142TR-ND	10,000	12.00/M	ECJ-0EB1A473K	ECJ-0EB1A473K
			56000pF	±10%	0.50	PCC2143CT-ND	2.01	14.17	48.94	77.28	PCC2143TR-ND	10,000	12.00/M	ECJ-0EB1A563K	ECJ-0EB1A563K
			68000pF	±10%	0.50	PCC2144CT-ND	2.01	14.17	48.94	77.28	PCC2144TR-ND	10,000	12.00/M	ECJ-0EB1A683K	ECJ-0EB1A683K
			82000pF	±10%	0.50	PCC2145CT-ND	2.14	15.09	52.14	82.32	PCC2145TR-ND	10,000	12.00/M	ECJ-0EB1A823K	ECJ-0EB1A823K
			.1µF	±10%	0.50	PCC2146CT-ND•	2.14	15.09	52.14	82.32	PCC2146TR-ND	10,000	12.00/M	ECJ-0EB1A104K	ECJ-0EB1A104K
		6.3	.22µF	±10%	0.50	PCC2269CT-ND	1.13	7.60	25.73	39.20	PCC2269TR-ND	10,000	27.00/M	ECJ-0EB0J224K	ECJ-0EB0J224K
			1µF	±20%	0.50	PCC2257CT-ND	1.62	11.41	39.43	62.25	PCC2257TR-ND	10,000	44.00/M	ECJ-0EB0J105M	ECJ-0EB0J105M
	Y5V	50	1000pF	+80%/-20%	0.50	PCC1741CT-ND	1.88	13.24	45.75	72.24	PCC1741TR-ND	10,000	8.00/M	ECU-E1H102ZFQ	ECJ-0EF1H102Z
			1500pF	+80%/-20%	0.50	PCC1742CT-ND	1.88	13.24	45.75	72.24	PCC1742TR-ND	10,000	51.00/M	ECU-E1H152ZFQ	ECJ-0EF1H152Z
			2200pF	+80%/-20%	0.50	PCC1743CT-ND	1.88	13.24	45.75	72.24	PCC1743TR-ND	10,000	8.00/M	ECU-E1H222ZFQ	ECJ-0EF1H222Z
			3300pF	+80%/-20%	0.50	PCC1744CT-ND	1.88	13.24	45.75	72.24	PCC1744TR-ND	10,000	51.00/M	ECU-E1H332ZFQ	ECJ-0EF1H332Z
			4700pF	+80%/-20%	0.50	PCC1745CT-ND	1.88	13.24	45.75	72.24	PCC1745TR-ND	10,000	8.00/M	ECU-E1H472ZFQ	ECJ-0EF1H472Z
			6800pF	+80%/-20%	0.50	PCC1746CT-ND	1.88	13.24	45.75	72.24	PCC1746TR-ND	10,000	51.00/M	ECU-E1H682ZFQ	ECJ-0EF1H682Z
			10000pF	+80%/-20%	0.50	PCC1747CT-ND	1.88	13.24	45.75	72.24	PCC1747TR-ND	10,000	8.00/M	ECU-E1H103ZFQ	ECJ-0EF1H103Z

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. (mm) T	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
0402	Y5V	25	1000pF	+80%/-20%	0.50	PCC1732CT-ND	1.88	13.24	45.75	72.24	PCC1732TR-ND	10,000	8.00/M	ECU-E1E102ZFQ	ECJ-0EF1E102Z
			1500pF	+80%/-20%	0.50	PCC1733CT-ND	1.88	13.24	45.75	72.24	PCC1733TR-ND	10,000	51.00/M	ECU-E1E152ZFQ	ECJ-0EF1E152Z
			2200pF	+80%/-20%	0.50	PCC1734CT-ND	1.88	13.24	45.75	72.24	PCC1734TR-ND	10,000	8.00/M	ECU-E1E222ZFQ	ECJ-0EF1E222Z
			3300pF	+80%/-20%	0.50	PCC1735CT-ND	1.88	13.24	45.75	72.24	PCC1735TR-ND	10,000	51.00/M	ECU-E1E332ZFQ	ECJ-0EF1E332Z
			4700pF	+80%/-20%	0.50	PCC1736CT-ND	1.88	13.24	45.75	72.24	PCC1736TR-ND	10,000	8.00/M	ECU-E1E472ZFQ	ECJ-0EF1E472Z
			6800pF	+80%/-20%	0.50	PCC1737CT-ND	1.88	13.24	45.75	72.24	PCC1737TR-ND	10,000	51.00/M	ECU-E1E682ZFQ	ECJ-0EF1E682Z
			10000pF	+80%/-20%	0.50	PCC1738CT-ND	2.01	14.17	48.94	77.28	PCC1738TR-ND	10,000	8.00/M	ECU-E1E103ZFQ	ECJ-0EF1E103Z
			15000pF	+80%/-20%	0.50	PCC1739CT-ND	2.18	15.40	53.20	84.00	PCC1739TR-ND	10,000	60.00/M	ECU-E1E153ZFQ	ECJ-0EF1E153Z
			22000pF	+80%/-20%	0.50	PCC1740CT-ND	2.18	15.40	53.20	84.00	PCC1740TR-ND	10,000	8.00/M	ECU-E1E223ZFQ	ECJ-0EF1E223Z
		16	15000pF	+80%/-20%	0.50	PCC153FQCT-ND	2.18	15.40	53.20	84.00	PCC153FQTR-ND	10,000	60.00/M	ECU-E1C153ZFQ	ECJ-0EF1C153Z
			22000pF	+80%/-20%	0.50	PCC223FQCT-ND	2.27	16.02	55.33	87.36	PCC223FQTR-ND	10,000	8.00/M	ECU-E1C223ZFQ	ECJ-0EF1C223Z
			33000pF	+80%/-20%	0.50	PCC333FQCT-ND	2.40	16.94	58.52	92.40	PCC333FQTR-ND	10,000	65.00/M	ECU-E1C333ZFQ	ECJ-0EF1C333Z
			47000pF	+80%/-20%	0.50	PCC1729CT-ND	2.45	17.25	59.58	94.08	PCC1729TR-ND	10,000	8.00/M	ECU-E1C473ZFQ	ECJ-0EF1C473Z
			68000pF	+80%/-20%	0.50	PCC1730CT-ND	2.45	17.25	59.58	94.08	PCC1730TR-ND	10,000	67.00/M	ECU-E1C683ZFQ	ECJ-0EF1C683Z
			.1µF	+80%/-20%	0.50	PCC1731CT-ND	2.71	19.10	65.97	104.16	PCC1731TR-ND	10,000	8.00/M	ECU-E1C104ZFQ	ECJ-0EF1C104Z
		10	.22µF	+80%/-20%	0.50	PCC2272CT-ND	1.19	7.99	27.08	41.26	PCC2272TR-ND	10,000	28.00/M	ECJ-0EF1A224Z	ECJ-0EF1A224Z
		6.3	1µF	+80%/-20%	0.50	PCC2268CT-ND	1.51	10.20	34.55	52.64	PCC2268TR-ND	10,000	36.00/M	ECJ-0EF0J105Z	ECJ-0EF0J105Z
0508	X7R	50	.01µF	±10%	0.85	PCC2187CT-ND	5.07	36.23	130.41	217.35	PCC2187TR-ND	4,000	70.00/M	ECJ-VVB1H103K	ECY-29RH103KV
		25	.1µF	±10%	0.85	PCC2188CT-ND	5.07	36.23	130.41	217.35	PCC2188TR-ND	4,000	70.00/M	ECJ-VVB1E104K	ECY-29RE104KV
	X5R	10	1µF	±10%	0.85	PCC2189CT-ND	7.65	54.63	196.65	327.75	PCC2189TR-ND	4,000	78.00/M	ECJ-VVB1A105K	ECY-29RA105KV
0603	NP0	100	10pF	±0.5pF	0.80	PCC1941CT-ND	1.60	10.76	36.46	59.02	PCC1941TR-ND	4,000	16.00/M	ECJ-1VC2A100D	ECJ-1VC2A100D
			15pF	±5%	0.80	PCC1942CT-ND	1.65	11.11	37.63	60.93	PCC1942TR-ND	4,000	16.00/M	ECJ-1VC2A150J	ECJ-1VC2A150J
			22pF	±5%	0.80	PCC1943CT-ND	1.65	11.11	37.63	60.93	PCC1943TR-ND	4,000	16.00/M	ECJ-1VC2A220J	ECJ-1VC2A220J
			33pF	±5%	0.80	PCC1944CT-ND	1.66	11.70	40.43	68.10	PCC1944TR-ND	4,000	16.00/M	ECJ-1VC2A330J	ECJ-1VC2A330J
			47pF	±5%	0.80	PCC1945CT-ND	1.66	11.70	40.43	68.10	PCC1945TR-ND	4,000	16.00/M	ECJ-1VC2A470J	ECJ-1VC2A470J
			68pF	±5%	0.80	PCC1946CT-ND	1.92	13.55	46.82	78.85	PCC1946TR-ND	4,000	16.00/M	ECJ-1VC2A680J	ECJ-1VC2A680J
			100pF	±5%	0.80	PCC1947CT-ND	2.10	14.78	51.07	86.02	PCC1947TR-ND	4,000	16.00/M	ECJ-1VC2A101J	ECJ-1VC2A101J
		50	0.5pF	±0.25pF	0.80	PCC0R5CVCT-ND•	.67	4.51	15.29	24.75	PCC0R5CVTR-ND	4,000	12.00/M	ECU-V1H0R5CCV	ECJ-1VC1H0R5C
			1pF	±0.25pF	0.80	PCC010CVCT-ND•	.67	4.51	15.29	24.75	PCC010CVTR-ND	4,000	12.00/M	ECU-V1H010CCV	ECJ-1VC1H010C
			1.5pF	±0.25pF	0.80	PCC1R5CVCT-ND•	.67	4.51	15.29	24.75	PCC1R5CVTR-ND	4,000	12.00/M	ECU-V1H1R5CCV	ECJ-1VC1H1R5C
			2pF	±0.25pF	0.80	PCC020CVCT-ND•	.67	4.51	15.29	24.75	PCC020CVTR-ND	4,000	12.00/M	ECU-V1H020CCV	ECJ-1VC1H020C
			3pF	±0.25pF	0.80	PCC030CVCT-ND•	.67	4.51	15.29	24.75	PCC030CVTR-ND	4,000	12.00/M	ECU-V1H030CCV	ECJ-1VC1H030C
			4pF	±0.25pF	0.80	PCC040CVCT-ND•	.67	4.51	15.29	24.75	PCC040CVTR-ND	4,000	12.00/M	ECU-V1H040CCV	ECJ-1VC1H040C
			5pF	±0.25pF	0.80	PCC050CVCT-ND•	.67	4.51	15.29	24.75	PCC050CVTR-ND	4,000	12.00/M	ECU-V1H050CCV	ECJ-1VC1H050C
			6pF	±0.5pF	0.80	PCC060CVCT-ND•	.67	4.51	15.29	24.75	PCC060CVTR-ND	4,000	12.00/M	ECU-V1H060DCV	ECJ-1VC1H060D
			7pF	±0.5pF	0.80	PCC070CVCT-ND•	.67	4.51	15.29	24.75	PCC070CVTR-ND	4,000	12.00/M	ECU-V1H070DCV	ECJ-1VC1H070D
			8pF	±0.5pF	0.80	PCC080CVCT-ND•	.67	4.51	15.29	24.75	PCC080CVTR-ND	4,000	12.00/M	ECU-V1H080DCV	ECJ-1VC1H080D
			9pF	±0.5pF	0.80	PCC090CVCT-ND•	.67	4.51	15.29	24.75	PCC090CVTR-ND	4,000	12.00/M	ECU-V1H090DCV	ECJ-1VC1H090D
			10pF	±0.5pF	0.80	PCC100CVCT-ND•	.67	4.51	15.29	24.75	PCC100CVTR-ND	4,000	12.00/M	ECU-V1H100DCV	ECJ-1VC1H100D
			12pF	±5%	0.80	PCC120ACVCT-ND	.67	4.51	15.29	24.75	PCC120ACVTR-ND	4,000	12.00/M	ECU-V1H120JCV	ECJ-1VC1H120J
			15pF	±5%	0.80	PCC150ACVCT-ND•	.67	4.51	15.29	24.75	PCC150ACVTR-ND	4,000	12.00/M	ECU-V1H150JCV	ECJ-1VC1H150J
			18pF	±5%	0.80	PCC180ACVCT-ND•	.67	4.51	15.29	24.75	PCC180ACVTR-ND	4,000	12.00/M	ECU-V1H180JCV	ECJ-1VC1H180J
			22pF	±5%	0.80	PCC220ACVCT-ND•	.48	3.21	10.88	17.61	PCC220ACVTR-ND	4,000	12.00/M	ECU-V1H220JCV	ECJ-1VC1H220J
			27pF	±5%	0.80	PCC270ACVCT-ND•	.57	3.82	12.94	20.94	PCC270ACVTR-ND	4,000	12.00/M	ECU-V1H270JCV	ECJ-1VC1H270J
			33pF	±5%	0.80	PCC330ACVCT-ND•	.57	3.82	12.94	20.94	PCC330ACVTR-ND	4,000	12.00/M	ECU-V1H330JCV	ECJ-1VC1H330J
			39pF	±5%	0.80	PCC390ACVCT-ND•	.57	3.82	12.94	20.94	PCC390ACVTR-ND	4,000	12.00/M	ECU-V1H390JCV	ECJ-1VC1H390J
			47pF	±5%	0.80	PCC470ACVCT-ND•	.57	3.82	12.94	20.94	PCC470ACVTR-ND	4,000	12.00/M	ECU-V1H470JCV	ECJ-1VC1H470J
			56pF	±5%	0.80	PCC560ACVCT-ND•	.57	3.82	12.94	20.94	PCC560ACVTR-ND	4,000	12.00/M	ECU-V1H560JCV	ECJ-1VC1H560J
			68pF	±5%	0.80	PCC680ACVCT-ND•	.92	6.20	21.00	34.00	PCC680ACVTR-ND	4,000	12.00/M	ECU-V1H680JCV	ECJ-1VC1H680J
			82pF	±5%	0.80	PCC820ACVCT-ND•	.57	3.82	12.94	20.94	PCC820ACVTR-ND	4,000	12.00/M	ECU-V1H820JCV	ECJ-1VC1H820J
			100pF	±5%	0.80	PCC101ACVCT-ND•	.62	4.17	14.11	22.85	PCC101ACVTR-ND	4,000	12.00/M	ECU-V1H101JCV	ECJ-1VC1H101J
			120pF	±5%	0.80	PCC121ACVCT-ND•	.62	4.17	14.11	22.85	PCC121ACVTR-ND	4,000	12.00/M	ECU-V1H121JCV	ECJ-1VC1H121J
			150pF	±5%	0.80	PCC151ACVCT-ND•	.62	4.17	14.11	22.85	PCC151ACVTR-ND	4,000	12.00/M	ECU-V1H151JCV	ECJ-1VC1H151J
			180pF	±5%	0.80	PCC181ACVCT-ND•	.62	4.17	14.11	22.85	PCC181ACVTR-ND	4,000	12.00/M	ECU-V1H181JCV	ECJ-1VC1H181J
			220pF	±5%	0.80	PCC221ACVCT-ND•	.67	4.51	15.29	24.75	PCC221ACVTR-ND	4,000	12.00/M	ECU-V1H221JCV	ECJ-1VC1H221J
			270pF	±5%	0.80	PCC271ACVCT-ND•	1.03	6.94	23.52	38.08	PCC271ACVTR-ND	4,000	12.00/M	ECU-V1H271JCV	ECJ-1VC1H271J
			330pF	±5%	0.80	PCC331ACVCT-ND•	1.08	7.29	24.70	39.98	PCC331ACVTR-ND	4,000	12.00/M	ECU-V1H331JCV	ECJ-1VC1H331J
			390pF	±5%	0.80	PCC391ACVCT-ND•	1.18	7.99	27.05	43.79	PCC391ACVTR-ND	4,000	12.00/M	ECU-V1H391JCV	ECJ-1VC1H391J
			470pF	±5%	0.80	PCC2147CT-ND	1.18	7.99	27.05	43.79	PCC2147TR-ND	4,000	12.00/M	ECJ-1VC1H471J	ECJ-1VC1H471J
			560pF	±5%	0.80	PCC2148CT-ND	1.49	10.07	34.10	55.22	PCC2148TR-ND	4,000	19.00/M	ECJ-1VC1H561J	ECJ-1VC1H561J
			680pF	±5%	0.80	PCC2149CT-ND	1.49	10.07	34.10	55.22	PCC2149TR-ND	4,000	19.00/M	ECJ-1VC1H681J	ECJ-1VC1H681J
			820pF	±5%	0.80	PCC2150CT-ND	1.80	12.15	41.16	66.64	PCC2150TR-ND	4,000	19.00/M	ECJ-1VC1H821J	ECJ-1VC1H821J
			1000pF	±5%	0.80	PCC2151CT-ND	1.80	12.15	41.16	66.64	PCC2151TR-ND	4,000	19.00/M	ECJ-1VC1H102J	ECJ-1VC1H102J
	X7R	200	220pF	±10%	0.80	PCC1953CT-ND	2.27	16.02	55.33	93.18	PCC1953TR-ND	4,000	19.00/M	ECJ-1VB2D221K	ECJ-1VB2D221K
			330pF	±10%	0.80	PCC1954CT-ND	2.27	16.02	55.33	93.18	PCC1954TR-ND	4,000	19.00/M	ECJ-1VB2D331K	ECJ-1VB2D331K
			470pF	±10%	0.80	PCC1955CT-ND	2.27	16.02	55.33	93.18	PCC1955TR-ND	4,000	19.00/M	ECJ-1VB2D471K	ECJ-1VB2D471K
			680pF	±10%	0.80	PCC1956CT-ND	2.27	16.02	55.33	93.18	PCC1956TR-ND	4,000	19.00/M	ECJ-1VB2D681K	ECJ-1VB2D681K
			1000pF	±10%	0.80	PCC1957CT-ND	2.27	16.02	55.33	93.18	PCC1957TR-ND	4,000	19.00/M	ECJ-1VB2D102K	ECJ-1VB2D102K
		100	220pF	±10%	0.80	PCC1948CT-ND	1.60	10.76	36.46	59.02	PCC1948TR-ND	4,000	15.00/M	ECJ-1VB2A221K	ECJ-1VB2A221K
			330pF	±10%	0.80	PCC1949CT-ND	1.60	10.76	36.46	59.02	PCC1949TR-ND	4,000	15.00/M	ECJ-1VB2A331K	ECJ-1VB2A331K
			470pF	±10%	0.80	PCC1950CT-ND	1.60	10.76	36.46	59.02	PCC1950TR-ND	4,000	15.00/M	ECJ-1VB2A471K	ECJ-1VB2A471K
			680pF	±10%	0.80	PCC1951CT-ND	1.60	10.76	36.46	59.02	PCC1951TR-ND	4,000	15.00/M	ECJ-1VB2A681K	ECJ-1VB2A681K
			1000pF	±10%	0.80	PCC1952CT-ND	1.60	10.76	36.46	59.02	PCC1952TR-ND	4,000	15.00/M	ECJ-1VB2A102K	ECJ-1VB2A102K
		50	220pF	±10%	0.80	PCC221BVCT-ND	.83	5.58	18.90	30.60	PCC221BVTR-ND	4,000	24.00/M	ECU-V1H221KBV	(Not for new design)
			270pF	±10%	0.80	PCC271BVCT-ND	.83	5.58	18.90	30.60	—	—	—	ECU-V1H271KBV	(Not for new design)
			390pF	±10%	0.80	PCC391BVCT-ND	.83	5.58	18.90	30.60	PCC391BVTR-ND	4,000	24.00/M	ECU-V1H391KBV	(Not for new design)
			560pF	±10%	0.80	PCC561BVCT-ND	.87	5.89	19.95	32.30	PCC561BVTR-ND	4,000	26.00/M	ECU-V1H561KBV	(Not for new design)
			680pF	±10%	0.80	PCC681BVCT-ND	.87	5.89	19.95	32.30	PCC681BVTR-ND	4,000	26.00/M	ECU-V1H681KBV	(Not for new design)
			1000pF	±10%	0.80	PCC102BVCT-ND	.87	5.89	19.95	32.30	PCC102BVTR-ND	4,000	26.00/M	ECU-V1H102KBV	(Not for new design)
			1000pF	±10%	0.80	PCC1772CT-ND•	.43	2.93	9.91	16.05	PCC1772TR-ND	4,000	11.00/M	ECJ-1VB1H102K	ECJ-1VB1H102K
			1200pF	±10%	0.80	PCC122BVCT-ND	.92	6.21	21.04	34.07	PCC122BVTR-ND	4,000	27.00/M	ECU-V1H122KBV	(Not for new design)
			1200pF	±10%	0.80	PCC1773CT-ND•	.43	2.93	9.91	16.05	PCC1773TR-ND	4,000	11.00/M	ECJ-1VB1H122K	ECJ-1VB1H122K
			1500pF	±10%	0.80	PCC152BVCT-ND	.90	6.08	20.60	33.35	PCC152BVTR-ND	4,000	26.00/M	ECU-V1H152KBV	(Not for new design)

(Continued)

Panasonic Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. (mm) T	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Old † Panasonic Part No.	New † Panasonic Part No.
							10	100	500	1,000		Size	Pricing		
0603	X7R	50	1500pF	±10%	0.80	PCC1774CT-ND•	.43	2.93	9.91	16.05	PCC1774TR-ND	4,000	11.00/M	ECJ-1VB1H152K	ECJ-1VB1H152K
			1800pF	±10%	0.80	PCC1775CT-ND•	.46	3.12	10.58	17.14	PCC1775TR-ND	4,000	11.00/M	ECJ-1VB1H182K	ECJ-1VB1H182K
			2200pF	±10%	0.80	PCC222BVCT-ND	.96	6.49	21.98	35.58	PCC222BVTR-ND	4,000	28.00/M	ECU-V1H222KBV	(Not for new design)
			2200pF	±10%	0.80	PCC1776CT-ND•	.46	3.12	10.58	17.14	PCC1776TR-ND	4,000	11.00/M	ECJ-1VB1H222K	ECJ-1VB1H222K
			2700pF	±10%	0.80	PCC1777CT-ND•	.46	3.12	10.58	17.14	PCC1777TR-ND	4,000	11.00/M	ECJ-1VB1H272K	ECJ-1VB1H272K
			3300pF	±10%	0.80	PCC1778CT-ND•	.67	4.51	15.29	24.75	PCC1778TR-ND	4,000	11.00/M	ECJ-1VB1H332K	ECJ-1VB1H332K
			3900pF	±10%	0.80	PCC1779CT-ND•	.52	3.47	11.76	19.04	PCC1779TR-ND	4,000	11.00/M	ECJ-1VB1H392K	ECJ-1VB1H392K
			4700pF	±10%	0.80	PCC472BVCT-ND	1.14	7.70	26.09	42.25	—	—	—	ECU-V1H472KBV	(Not for new design)
			4700pF	±10%	0.80	PCC1780CT-ND•	.57	3.82	12.94	20.94	PCC1780TR-ND	4,000	11.00/M	ECJ-1VB1H472K	ECJ-1VB1H472K
			5600pF	±10%	0.80	PCC562BVCT-ND	1.14	7.70	26.09	42.25	—	—	—	ECU-V1H562KBV	(Not for new design)
			5600pF	±10%	0.80	PCC1781CT-ND•	.83	5.58	18.90	30.60	PCC1781TR-ND	4,000	11.00/M	ECJ-1VB1H562K	ECJ-1VB1H562K
			6800pF	±10%	0.80	PCC682BVCT-ND	1.26	8.52	28.84	46.70	PCC682BVTR-ND	4,000	37.00/M	ECU-V1H682KBV	(Not for new design)
			6800pF	±10%	0.80	PCC1782CT-ND•	.62	4.17	14.11	22.85	PCC1782TR-ND	4,000	11.00/M	ECJ-1VB1H682K	ECJ-1VB1H682K
			8200pF	±10%	0.80	PCC822BVCT-ND	1.32	8.92	30.22	48.93	—	—	—	ECU-V1H822KBV	(Not for new design)
			8200pF	±10%	0.80	PCC1783CT-ND•	.67	4.51	15.29	24.75	PCC1783TR-ND	4,000	11.00/M	ECJ-1VB1H822K	ECJ-1VB1H822K
			10000pF	±10%	0.80	PCC103BVCT-ND	1.32	8.92	30.22	48.93	PCC103BVTR-ND	4,000	39.00/M	ECU-V1H103KBV	(Not for new design)
			10000pF	±10%	0.80	PCC1784CT-ND•	.67	4.51	15.29	24.75	PCC1784TR-ND	4,000	11.00/M	ECJ-1VB1H103K	ECJ-1VB1H103K
			12000pF	±10%	0.80	PCC123BVCT-ND	1.38	9.32	31.58	51.14	PCC123BVTR-ND	4,000	41.00/M	ECU-V1H123KBV	(Not for new design)
			12000pF	±10%	0.80	PCC1785CT-ND•	.72	4.86	16.46	26.66	PCC1785TR-ND	4,000	13.00/M	ECJ-1VB1H123K	ECJ-1VB1H123K
			15000pF	±10%	0.80	PCC1786CT-ND•	.79	5.31	18.00	29.14	PCC1786TR-ND	4,000	13.00/M	ECJ-1VB1H153K	ECJ-1VB1H153K
			.018µF	±10%	0.80	PCC2281CT-ND	.51	3.45	11.68	17.79	PCC2281TR-ND	4,000	13.00/M	ECJ-1VB1H183K	ECJ-1VB1H183K
			.022µF	±10%	0.80	PCC2282CT-ND	.51	3.45	11.68	17.79	PCC2282TR-ND	4,000	13.00/M	ECJ-1VB1H223K	ECJ-1VB1H223K
			.027µF	±10%	0.80	PCC2283CT-ND	.89	6.00	20.31	30.94	PCC2283TR-ND	4,000	22.00/M	ECJ-1VB1H273K	ECJ-1VB1H273K
			.033µF	±10%	0.80	PCC2284CT-ND	.89	6.00	20.31	30.94	PCC2284TR-ND	4,000	22.00/M	ECJ-1VB1H333K	ECJ-1VB1H333K
			.039µF	±10%	0.80	PCC2285CT-ND	.89	6.00	20.31	30.94	PCC2285TR-ND	4,000	22.00/M	ECJ-1VB1H393K	ECJ-1VB1H393K
			.047µF	±10%	0.80	PCC2286CT-ND	.89	6.00	20.31	30.94	PCC2286TR-ND	4,000	22.00/M	ECJ-1VB1H473K	ECJ-1VB1H473K
		25	10000pF	±10%	0.80	PCC1763CT-ND	.72	4.86	16.46	26.66	PCC1763TR-ND	4,000	13.00/M	ECJ-1VB1E103K	ECJ-1VB1E103K
			12000pF	±10%	0.80	PCC1764CT-ND	.77	5.21	17.64	28.56	PCC1764TR-ND	4,000	13.00/M	ECJ-1VB1E123K	ECJ-1VB1E123K
			15000pF	±10%	0.80	PCC1765CT-ND	.77	5.21	17.64	28.56	PCC1765TR-ND	4,000	13.00/M	ECJ-1VB1E153K	ECJ-1VB1E153K
			18000pF	±10%	0.80	PCC1766CT-ND•	.77	5.21	17.64	28.56	PCC1766TR-ND	4,000	13.00/M	ECJ-1VB1E183K	ECJ-1VB1E183K
			22000pF	±10%	0.80	PCC223BVCT-ND	1.43	9.61	32.55	52.70	PCC223BVTR-ND	4,000	42.00/M	ECU-V1E223KBV	(Not for new design)
			22000pF	±10%	0.80	PCC1767CT-ND•	.82	5.56	18.82	30.46	PCC1767TR-ND	4,000	13.00/M	ECJ-1VB1E223K	ECJ-1VB1E223K
			27000pF	±10%	0.80	PCC1768CT-ND•	.88	5.90	19.99	32.37	PCC1768TR-ND	4,000	13.00/M	ECJ-1VB1E273K	ECJ-1VB1E273K
			33000pF	±10%	0.80	PCC1769CT-ND•	.88	5.90	19.99	32.37	PCC1769TR-ND	4,000	13.00/M	ECJ-1VB1E333K	ECJ-1VB1E333K
			39000pF	±10%	0.80	PCC1770CT-ND•	.88	5.90	19.99	32.37	PCC1770TR-ND	4,000	13.00/M	ECJ-1VB1E393K	ECJ-1VB1E393K
			47000pF	±10%	0.80	PCC1771CT-ND•	.88	5.90	19.99	32.37	PCC1771TR-ND	4,000	13.00/M	ECJ-1VB1E473K	ECJ-1VB1E473K
			.056µF	±10%	0.80	PCC2278CT-ND	.68	4.62	15.63	23.82	PCC2278TR-ND	4,000	17.00/M	ECJ-1VB1E563K	ECJ-1VB1E563K
			.068µF	±10%	0.80	PCC2279CT-ND	.68	4.62	15.63	23.82	PCC2279TR-ND	4,000	17.00/M	ECJ-1VB1E683K	ECJ-1VB1E683K
			.082µF	±10%	0.80	PCC2280CT-ND	.68	4.62	15.63	23.82	PCC2280TR-ND	4,000	17.00/M	ECJ-1VB1E823K	ECJ-1VB1E823K
			.1µF	±10%	0.80	PCC2277CT-ND	.68	4.62	15.63	23.82	PCC2277TR-ND	4,000	17.00/M	ECJ-1VB1E104K	ECJ-1VB1E104K
		16	10000pF	±10%	0.80	PCC1750CT-ND	.72	4.86	16.46	26.66	PCC1750TR-ND	4,000	13.00/M	ECJ-1VB1C103K	ECJ-1VB1C103K
			12000pF	±10%	0.80	PCC1751CT-ND	.77	5.21	17.64	28.56	PCC1751TR-ND	4,000	13.00/M	ECJ-1VB1C123K	ECJ-1VB1C123K
			15000pF	±10%	0.80	PCC1752CT-ND	.82	5.56	18.82	30.46	PCC1752TR-ND	4,000	13.00/M	ECJ-1VB1C153K	ECJ-1VB1C153K
			18000pF	±10%	0.80	PCC1753CT-ND	.82	5.56	18.82	30.46	PCC1753TR-ND	4,000	13.00/M	ECJ-1VB1C183K	ECJ-1VB1C183K
			22000pF	±10%	0.80	PCC1754CT-ND	.88	5.90	19.99	32.37	PCC1754TR-ND	4,000	13.00/M	ECJ-1VB1C223K	ECJ-1VB1C223K
			27000pF	±10%	0.80	PCC1755CT-ND	.88	5.90	19.99	32.37	PCC1755TR-ND	4,000	13.00/M	ECJ-1VB1C273K	ECJ-1VB1C273K
			33000pF	±10%	0.80	PCC1756CT-ND	.88	5.90	19.99	32.37	PCC1756TR-ND	4,000	13.00/M	ECJ-1VB1C333K	ECJ-1VB1C333K
			39000pF	±10%	0.80	PCC1757CT-ND	.88	5.90	19.99	32.37	PCC1757TR-ND	4,000	13.00/M	ECJ-1VB1C393K	ECJ-1VB1C393K
			47000pF	±10%	0.80	PCC1758CT-ND	.88	5.90	19.99	32.37	PCC1758TR-ND	4,000	13.00/M	ECJ-1VB1C473K	ECJ-1VB1C473K
			56000pF	±10%	0.80	PCC1759CT-ND•	.88	5.90	19.99	32.37	PCC1759TR-ND	4,000	13.00/M	ECJ-1VB1C563K	ECJ-1VB1C563K
			68000pF	±10%	0.80	PCC1760CT-ND•	.88	5.90	19.99	32.37	PCC1760TR-ND	4,000	13.00/M	ECJ-1VB1C683K	ECJ-1VB1C683K
			82000pF	±10%	0.80	PCC1761CT-ND•	.98	6.60	22.34	36.18	PCC1761TR-ND	4,000	13.00/M	ECJ-1VB1C823K	ECJ-1VB1C823K
			.1µF	±10%	0.80	PCC1762CT-ND•	1.03	6.94	23.52	38.08	PCC1762TR-ND	4,000	13.00/M	ECJ-1VB1C104K	ECJ-1VB1C104K
	X5R	16	1.0µF	±10%	0.80	PCC2224CT-ND	1.32	9.43	33.94	52.79	PCC2224TR-ND	4,000	42.00/M	ECJ-1VB1C105K	ECJ-1VB1C105K
		10	.12µF	±10%	0.80	PCC1906CT-ND•	1.18	8.32	28.73	48.38	PCC1906TR-ND	4,000	33.00/M	ECJ-1VB1A124K	ECJ-1VB1A124K
			.15µF	±10%	0.80	PCC1748CT-ND•	1.18	8.32	28.73	48.38	PCC1748TR-ND	4,000	13.00/M	ECJ-1VB1A154K	ECJ-1VB1A154K
			.18µF	±10%	0.80	PCC1907CT-ND•	1.22	8.62	29.79	50.18	PCC1907TR-ND	4,000	35.00/M	ECJ-1VB1A184K	ECJ-1VB1A184K
			.22µF	±10%	0.80	PCC1749CT-ND•	1.22	8.62	29.79	50.18	PCC1749TR-ND	4,000	20.00/M	ECJ-1VB1A224K	ECJ-1VB1A224K
			.33µF	±10%	0.80	PCC2274CT-ND	1.29	9.08	31.35	52.80	PCC2274TR-ND	4,000	21.00/M	ECJ-1VB1A334K	ECJ-1VB1A334K
			.47µF	±10%	0.80	PCC2275CT-ND	1.29	9.08	31.35	52.80	PCC2275TR-ND	4,000	21.00/M	ECJ-1VB1A474K	ECJ-1VB1A474K
			.68µF	±10%	0.80	PCC2276CT-ND	1.48	9.95	33.72	51.38	PCC2276TR-ND	4,000	37.00/M	ECJ-1VB1A684K	ECJ-1VB1A684K
			1µF	±10%	0.80	PCC2174CT-ND	2.54	18.11	65.21	108.68	PCC2174TR-ND	4,000	35.00/M	ECJ-1VB1A105K	ECJ-1VB1A105K
		6.3	.27µF	±10%	0.80	PCC1908CT-ND	1.96	13.80	47.67	80.29	PCC1908TR-ND	4,000	55.00/M	ECJ-1VB0J274K	ECJ-1VB0J274K
			.33µF	±10%	0.80	PCC1909CT-ND	1.57	11.09	38.30	64.51	PCC1909TR-ND	4,000	45.00/M	ECJ-1VB0J334K	ECJ-1VB0J334K
			.39µF	±10%	0.80	PCC1910CT-ND	1.57	11.09	38.30	64.51	PCC1910TR-ND	4,000	45.00/M	ECJ-1VB0J394K	ECJ-1VB0J394K
			.47µF	±10%	0.80	PCC1911CT-ND	1.57	11.09	38.30	64.51	PCC1911TR-ND	4,000	20.00/M	ECJ-1VB0J474K	ECJ-1VB0J474K
			.56µF	±10%	0.80	PCC1912CT-ND	1.62	11.40	39.37	66.30	PCC1912TR-ND	4,000	46.00/M	ECJ-1VB0J564K	ECJ-1VB0J564K
			.68µF	±10%	0.80	PCC1913CT-ND	1.70	12.01	41.50	69.89	PCC1913TR-ND	4,000	20.00/M	ECJ-1VB0J684K	ECJ-1VB0J684K
			.82µF	±10%	0.80	PCC1914CT-ND	1.70	12.01	41.50	69.89	PCC1914TR-ND	4,000	48.00/M	ECJ-1VB0J824K	ECJ-1VB0J824K
			1µF	±10%	0.80	PCC1915CT-ND•	1.70	12.01	41.50	69.89	PCC1915TR-ND	4,000	22.00/M	ECJ-1VB0J105K	ECJ-1VB0J105K
			2.2µF	±10%	0.80	PCC2273CT-ND	2.13	14.99	51.78	81.75	PCC2273TR-ND	4,000	60.00/M	ECJ-1VB0J225K	ECJ-1VB0J225K
			4.7µF	±20%	0.80	PCC2318CT-ND *NEW!*	2.57	18.15	62.70	99.00	PCC2318TR-ND *NEW!*	4,000	73.00/M	ECJ-1VB0J475M	ECJ-1VB0J475M
	Y5V	50	1000pF	+80%/-20%	0.80	PCC1795CT-ND	.69	4.65	15.75	25.50	—	—	—	ECU-V1H102ZFV	(Not for new design)
			1500pF	+80%/-20%	0.80	PCC1796CT-ND	.70	4.75	16.08	26.03	PCC1796TR-ND	4,000	21.00/M	ECU-V1H152ZFV	(Not for new design)
	F	16	1µF	+80%/-20%	0.80	PCC2287CT-ND	.78	5.26	17.83	27.17	PCC2287TR-ND	4,000	19.00/M	ECJ-1VF1C105Z	ECJ-1VF1C105Z
0603	Y5V	50	3300pF	+80%/-20%	0.80	PCC1798CT-ND	.70	4.75	16.08	26.03	—	—	—	ECU-V1H332ZFV	(Not for new design)
			4700pF	+80%/-20%	0.80	PCC1799CT-ND	.70	4.75	16.08	26.03	PCC1799TR-ND	4,000	21.00/M	ECU-V1H472ZFV	(Not for new design)
			6800pF	+80%/-20%	0.80	PCC1800CT-ND	.70	4.75	16.08	26.03	—	—	—	ECU-V1H682ZFV	(Not for new design)
			10000pF	+80%/-20%	0.80	PCC1801CT-ND	.43	2.93	9.91	16.05	PCC1801TR-ND	4,000	11.00/M	ECJ-1VF1H103Z	ECJ-1VF1H103Z
			15000pF	+80%/-20%	0.80	PCC1802CT-ND	.52	3.47	11.76	19.04	PCC1802TR-ND	4,000	13.00/M	ECJ-1VF1H153Z	ECJ-1VF1H153Z
			22000pF	+80%/-20%	0.80	PCC1803CT-ND	.57	3.82	12.94	20.94	PCC1803TR-ND	4,000	12.00/M	ECJ-1VF1H223Z	ECJ-1VF1H223Z
			33000pF	+80%/-20%	0.80	PCC1804CT-ND	.67	4.51	15.29	24.75	PCC1804TR-ND	4,000	17.00/M	ECJ-1VF1H333Z	ECJ-1VF1H333Z
			47000pF	+80%/-20%	0.80	PCC1805CT-ND	.67	4.51	15.29	24.75	PCC1805TR-ND	4,000	12.00/M	ECJ-1VF1H473Z	ECJ-1VF1H473Z
			68000pF	+80%/-20%	0.80	PCC2152CT-ND	.77	5.21	17.64	28.56	PCC2152TR-ND	4,000	19.00/M	ECJ-1VF1H683Z	ECJ-1VF1H683Z
			.1µF	+80%/-20%	0.80	PCC2153CT-ND	.82	5.56	18.82	30.46	PCC2153TR-ND	4,000	14.00/M	ECJ-1VF1H104Z	ECJ-1VF1H104Z

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. (mm) T	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
0603	Y5V	25	68000pF	+80%/-20%	0.80	PCC1793CT-ND	.77	5.21	17.64	28.56	PCC1793TR-ND	4,000	19.00/M	ECJ-1VF1E683Z	ECJ-1VF1E683Z
			.1µF	+80%/-20%	0.80	PCC1794CT-ND	.71	4.79	16.23	26.28	PCC1794TR-ND	4,000	11.00/M	ECJ-1VF1E104Z	ECJ-1VF1E104Z
		16	.1µF	+80%/-20%	0.80	PCC1788CT-ND	.71	4.79	16.23	26.28	PCC1788TR-ND	4,000	13.00/M	ECJ-1VF1C104Z	ECJ-1VF1C104Z
			.15µF	+80%/-20%	0.80	PCC1789CT-ND	.71	4.79	16.23	26.28	PCC1789TR-ND	4,000	18.00/M	ECJ-1VF1C154Z	ECJ-1VF1C154Z
			.22µF	+80%/-20%	0.80	PCC1790CT-ND	.77	5.21	17.64	28.56	PCC1790TR-ND	4,000	14.00/M	ECJ-1VF1C224Z	ECJ-1VF1C224Z
			.33µF	+80%/-20%	0.80	PCC1791CT-ND	.93	6.25	21.17	34.27	PCC1791TR-ND	4,000	23.00/M	ECJ-1VF1C334Z	ECJ-1VF1C334Z
			.47µF	+80%/-20%	0.80	PCC1792CT-ND	1.08	7.29	24.70	39.98	PCC1792TR-ND	4,000	14.00/M	ECJ-1VF1C474Z	ECJ-1VF1C474Z
		10	.68µF	+80%/-20%	0.80	PCC2154CT-ND	1.27	8.93	30.86	51.97	PCC2154TR-ND	4,000	36.00/M	ECJ-1VF1A684Z	ECJ-1VF1A684Z
			1µF	+80%/-20%	0.80	PCC1787CT-ND	1.27	8.93	30.86	51.97	PCC1787TR-ND	4,000	15.00/M	ECJ-1VF1A105Z	ECJ-1VF1A105Z
		6.3	2.2µF	+80%/-20%	0.80	PCC2181CT-ND	3.06	21.85	78.66	131.10	PCC2181TR-ND	4,000	52.00/M	ECJ-1VF0J225Z	ECJ-1VF0J225Z
	F	10	2.2µF	+80%/-20%	0.80	PCC2229CT-ND	3.82	27.31	98.33	152.95	PCC2229TR-ND	4,000	56.00/M	ECJ-1VF1A225Z	ECJ-1VF1A225Z
0612	X7R	50	15000pF	±10%	0.85	PCC2173CT-ND	3.62	25.88	93.15	155.25	PCC2173TR-ND	4,000	114.00/M	ECJ-WVB1H153K	ECY-39RH153KV
		16	.33µF	±10%	0.85	PCC2185CT-ND	9.18	65.55	235.98	393.30	PCC2185TR-ND	4,000	290.00/M	ECJ-WVB1C334K	ECY-39RC334KV
	X5R	50	.1µF	±10%	0.85	PCC2313CT-ND	2.59	18.29	63.18	99.75	PCC2313TR-ND	4,000	73.00/M	ECY-39RH104KV	ECY-39RH104KV
		16	1µF	±10%	0.85	PCC2186CT-ND	10.18	72.74	261.86	436.43	PCC2186TR-ND	4,000	83.00/M	ECJ-WVB1C105K	ECY-39RC105KV
0805	NP0	200	10pF	±0.5pF	0.85	PCC1971CT-ND	2.55	18.20	65.52	109.20	PCC1971TR-ND	4,000	38.00/M	ECJ-2VC2D100D	ECJ-2VC2D100D
			15pF	±5%	0.85	PCC1972CT-ND	2.59	18.48	66.53	110.88	PCC1972TR-ND	4,000	38.00/M	ECJ-2VC2D150J	ECJ-2VC2D150J
			22pF	±5%	0.85	PCC1973CT-ND	2.59	18.48	66.53	110.88	PCC1973TR-ND	4,000	38.00/M	ECJ-2VC2D220J	ECJ-2VC2D220J
			33pF	±5%	0.85	PCC1974CT-ND	2.63	18.76	67.54	112.56	PCC1974TR-ND	4,000	38.00/M	ECJ-2VC2D330J	ECJ-2VC2D330J
			47pF	±5%	0.85	PCC1975CT-ND	2.63	18.76	67.54	112.56	PCC1975TR-ND	4,000	38.00/M	ECJ-2VC2D470J	ECJ-2VC2D470J
			68pF	±5%	1.25	PCC1976CT-ND	3.18	22.68	81.65	136.08	PCC1976TR-ND	2,000	108.00/M	ECJ-2YC2D680J	ECJ-2YC2D680J
			100pF	±5%	1.25	PCC1977CT-ND	3.21	22.96	82.66	137.76	PCC1977TR-ND	2,000	109.00/M	ECJ-2YC2D101J	ECJ-2YC2D101J
			150pF	±5%	1.25	PCC1978CT-ND	3.33	23.80	85.68	142.80	PCC1978TR-ND	2,000	113.00/M	ECJ-2YC2D151J	ECJ-2YC2D151J
			220pF	±5%	1.25	PCC1979CT-ND	3.33	23.80	85.68	142.80	PCC1979TR-ND	2,000	113.00/M	ECJ-2YC2D221J	ECJ-2YC2D221J
			330pF	±5%	1.25	PCC1980CT-ND	3.33	23.80	85.68	142.80	PCC1980TR-ND	2,000	113.00/M	ECJ-2YC2D331J	ECJ-2YC2D331J
		100	10pF	±0.5pF	0.85	PCC1958CT-ND	1.70	12.01	41.50	69.89	PCC1958TR-ND	4,000	34.00/M	ECJ-2VC2A100D	ECJ-2VC2A100D
			15pF	±5%	0.85	PCC1959CT-ND	1.75	12.32	42.56	71.68	PCC1959TR-ND	4,000	34.00/M	ECJ-2VC2A150J	ECJ-2VC2A150J
			22pF	±5%	0.85	PCC1960CT-ND	1.75	12.32	42.56	71.68	PCC1960TR-ND	4,000	34.00/M	ECJ-2VC2A220J	ECJ-2VC2A220J
			33pF	±5%	0.85	PCC1961CT-ND	1.75	12.32	42.56	71.68	PCC1961TR-ND	4,000	34.00/M	ECJ-2VC2A330J	ECJ-2VC2A330J
			47pF	±5%	0.85	PCC1962CT-ND	1.75	12.32	42.56	71.68	PCC1962TR-ND	4,000	34.00/M	ECJ-2VC2A470J	ECJ-2VC2A470J
			68pF	±5%	0.85	PCC1963CT-ND	2.14	15.09	52.14	87.81	PCC1963TR-ND	4,000	38.00/M	ECJ-2VC2A680J	ECJ-2VC2A680J
			100pF	±5%	0.85	PCC1964CT-ND	2.14	15.09	52.14	87.81	PCC1964TR-ND	4,000	38.00/M	ECJ-2VC2A101J	ECJ-2VC2A101J
			150pF	±5%	0.85	PCC1965CT-ND	2.23	15.71	54.26	91.39	PCC1965TR-ND	4,000	38.00/M	ECJ-2VC2A151J	ECJ-2VC2A151J
			220pF	±5%	0.85	PCC1966CT-ND	2.23	15.71	54.26	91.39	PCC1966TR-ND	4,000	38.00/M	ECJ-2VC2A221J	ECJ-2VC2A221J
			330pF	±5%	0.85	PCC1967CT-ND	2.23	15.71	54.26	91.39	PCC1967TR-ND	4,000	38.00/M	ECJ-2VC2A331J	ECJ-2VC2A331J
			470pF	±5%	0.85	PCC1968CT-ND	2.53	17.86	61.71	103.94	PCC1968TR-ND	4,000	38.00/M	ECJ-2VC2A471J	ECJ-2VC2A471J
			680pF	±5%	0.85	PCC1969CT-ND	2.51	17.92	64.51	107.52	PCC1969TR-ND	4,000	38.00/M	ECJ-2VC2A681J	ECJ-2VC2A681J
			1000pF	±5%	0.85	PCC1970CT-ND	3.61	25.76	92.74	154.56	PCC1970TR-ND	4,000	44.00/M	ECJ-2VC2A102J	ECJ-2VC2A102J
		50	0.5pF	±0.25pF	0.60	PCC0R5CNCT-ND•	.62	4.17	14.11	21.50	PCC0R5CNTR-ND	5,000	15.00/M	ECU-V1H0R5CCN	ECJ-2VC1H0R5C
			1.0pF	±0.25pF	0.60	PCC010CNCT-ND•	.62	4.17	14.11	21.50	PCC010CNTR-ND	5,000	15.00/M	ECU-V1H010CCN	ECJ-2VC1H010C
			1.5pF	±0.25pF	0.60	PCC1R5CNCT-ND•	.62	4.17	14.11	21.50	PCC1R5CNTR-ND	5,000	15.00/M	ECU-V1H1R5CCN	ECJ-2VC1H1R5C
			2.0pF	±0.25pF	0.60	PCC020CNCT-ND•	.62	4.17	14.11	21.50	PCC020CNTR-ND	5,000	15.00/M	ECU-V1H020CCN	ECJ-2VC1H020C
			3.0pF	±0.25pF	0.60	PCC030CNCT-ND•	.62	4.17	14.11	21.50	PCC030CNTR-ND	5,000	15.00/M	ECU-V1H030CCN	ECJ-2VC1H030C
			4.0pF	±0.25pF	0.60	PCC040CNCT-ND•	.62	4.17	14.11	21.50	PCC040CNTR-ND	5,000	15.00/M	ECU-V1H040CCN	ECJ-2VC1H040C
			5.0pF	±0.25pF	0.60	PCC050CNCT-ND•	.62	4.17	14.11	21.50	PCC050CNTR-ND	5,000	15.00/M	ECU-V1H050CCN	ECJ-2VC1H050C
			6.0pF	±0.5pF	0.60	PCC060CNCT-ND•	.62	4.17	14.11	21.50	PCC060CNTR-ND	5,000	15.00/M	ECU-V1H060DCN	ECJ-2VC1H060D
			7.0pF	±0.5pF	0.60	PCC070CNCT-ND•	.62	4.17	14.11	21.50	PCC070CNTR-ND	5,000	15.00/M	ECU-V1H070DCN	ECJ-2VC1H070D
			8.0pF	±0.5pF	0.60	PCC080CNCT-ND•	.62	4.17	14.11	21.50	PCC080CNTR-ND	5,000	15.00/M	ECU-V1H080DCN	ECJ-2VC1H080D
			9.0pF	±0.5pF	0.60	PCC090CNCT-ND•	.62	4.17	14.11	21.50	PCC090CNTR-ND	5,000	15.00/M	ECU-V1H090DCN	ECJ-2VC1H090D
			10pF	±0.5pF	0.60	PCC100CNCT-ND•	.62	4.17	14.11	21.50	PCC100CNTR-ND	5,000	15.00/M	ECU-V1H100DCN	ECJ-2VC1H100D
			12pF	±5%	0.60	PCC120CNCT-ND	.62	4.17	14.11	21.50	PCC120CNTR-ND	5,000	15.00/M	ECU-V1H120JCN	ECJ-2VC1H120J
			15pF	±5%	0.60	PCC150CNCT-ND•	.62	4.17	14.11	21.50	PCC150CNTR-ND	5,000	15.00/M	ECU-V1H150JCN	ECJ-2VC1H150J
			18pF	±5%	0.60	PCC180CNCT-ND	.62	4.17	14.11	21.50	PCC180CNTR-ND	5,000	15.00/M	ECU-V1H180JCN	ECJ-2VC1H180J
			22pF	±5%	0.60	PCC220CNCT-ND•	.46	3.12	10.58	16.13	PCC220CNTR-ND	5,000	12.00/M	ECU-V1H220JCN	ECJ-2VC1H220J
			27pF	±5%	0.60	PCC270CGCT-ND	.53	3.60	12.19	18.58	PCC270CGTR-ND	5,000	13.00/M	ECU-V1H270JCG	ECJ-2VC1H270J
			33pF	±5%	0.60	PCC330CGCT-ND•	.53	3.60	12.19	18.58	PCC330CGTR-ND	5,000	13.00/M	ECU-V1H330JCG	ECJ-2VC1H330J
			39pF	±5%	0.60	PCC390CGCT-ND	.53	3.60	12.19	18.58	PCC390CGTR-ND	5,000	13.00/M	ECU-V1H390JCG	ECJ-2VC1H390J
			47pF	±5%	0.60	PCC470CGCT-ND•	.53	3.60	12.19	18.58	PCC470CGTR-ND	5,000	13.00/M	ECU-V1H470JCG	ECJ-2VC1H470J
			56pF	±5%	0.60	PCC560CGCT-ND	.53	3.60	12.19	18.58	PCC560CGTR-ND	5,000	13.00/M	ECU-V1H560JCG	ECJ-2VC1H560J
			68pF	±5%	0.60	PCC680CGCT-ND•	.53	3.60	12.19	18.58	PCC680CGTR-ND	5,000	13.00/M	ECU-V1H680JCG	ECJ-2VC1H680J
			82pF	±5%	0.60	PCC820CGCT-ND	.53	3.60	12.19	18.58	PCC820CGTR-ND	5,000	13.00/M	ECU-V1H820JCG	ECJ-2VC1H820J
			100pF	±5%	0.60	PCC101CGCT-ND•	.53	3.60	12.19	18.58	PCC101CGTR-ND	5,000	13.00/M	ECU-V1H101JCG	ECJ-2VC1H101J
			120pF	±5%	0.60	PCC121CGCT-ND•	.53	3.60	12.19	18.58	PCC121CGTR-ND	5,000	13.00/M	ECU-V1H121JCG	ECJ-2VC1H121J
			150pF	±5%	0.60	PCC151CGCT-ND•	.53	3.60	12.19	18.58	PCC151CGTR-ND	5,000	13.00/M	ECU-V1H151JCG	ECJ-2VC1H151J
			180pF	±5%	0.60	PCC181CGCT-ND•	.57	3.82	12.94	19.71	PCC181CGTR-ND	5,000	13.00/M	ECU-V1H181JCG	ECJ-2VC1H181J
			220pF	±5%	0.60	PCC221CGCT-ND•	.62	4.17	14.11	21.50	PCC221CGTR-ND	5,000	13.00/M	ECU-V1H221JCG	ECJ-2VC1H221J
			270pF	±5%	0.60	PCC271CGCT-ND•	.62	4.17	14.11	21.50	PCC271CGTR-ND	5,000	13.00/M	ECU-V1H271JCG	ECJ-2VC1H271J
			330pF	±5%	0.60	PCC331CGCT-ND•	.67	4.51	15.29	23.30	PCC331CGTR-ND	5,000	13.00/M	ECU-V1H331JCG	ECJ-2VC1H331J
			390pF	±5%	0.60	PCC391CGCT-ND•	.72	4.86	16.46	25.09	PCC391CGTR-ND	5,000	13.00/M	ECU-V1H391JCG	ECJ-2VC1H391J
			470pF	±5%	0.60	PCC471CGCT-ND•	.77	5.21	17.64	26.88	PCC471CGTR-ND	5,000	13.00/M	ECU-V1H471JCX	ECJ-2VC1H471J
			560pF	±5%	0.60	PCC561CGCT-ND•	.82	5.56	18.82	28.67	PCC561CGTR-ND	5,000	13.00/M	ECU-V1H561JCX	ECJ-2VC1H561J
			680pF	±5%	0.60	PCC681CGCT-ND•	.93	6.25	21.17	32.26	PCC681CGTR-ND	5,000	13.00/M	ECU-V1H681JCX	ECJ-2VC1H681J
			820pF	±5%	0.60	PCC821CGCT-ND•	.98	6.60	22.34	34.05	PCC821CGTR-ND	5,000	21.00/M	ECU-V1H821JCX	ECJ-2VC1H821J
			1000pF	±5%	0.60	PCC102CGCT-ND•	1.13	7.64	25.87	39.42	PCC102CGTR-ND	5,000	21.00/M	ECU-V1H102JCX	ECJ-2VC1H102J
			1200pF	±5%	0.60	PCC2155CT-ND	1.74	11.74	39.76	60.59	PCC2155TR-ND	5,000	42.00/M	ECJ-2VC1H122J	ECJ-2VC1H122J
			1500pF	±5%	0.60	PCC2156CT-ND	1.74	11.74	39.76	60.59	PCC2156TR-ND	5,000	42.00/M	ECJ-2VC1H152J	ECJ-2VC1H152J
			1800pF	±5%	0.60	PCC2157CT-ND	2.32	15.66	53.03	80.80	PCC2157TR-ND	5,000	56.00/M	ECJ-2VC1H182J	ECJ-2VC1H182J
			2200pF	±5%	0.60	PCC2158CT-ND	2.32	15.66	53.03	80.80	PCC2158TR-ND	5,000	56.00/M	ECJ-2VC1H222J	ECJ-2VC1H222J
			2700pF	±5%	0.60	PCC2159CT-ND	2.32	15.66	53.03	80.80	PCC2159TR-ND	4,000	56.00/M	ECJ-2VC1H272J	ECJ-2VC1H272J
	X7R	200	220pF	±10%	0.85	PCC1993CT-ND	2.39	17.08	61.49	102.48	PCC1993TR-ND	4,000	25.00/M	ECJ-2VB2D221K	ECJ-2VB2D221K
			330pF	±10%	0.85	PCC1994CT-ND	2.39	17.08	61.49	102.48	PCC1994TR-ND	4,000	25.00/M	ECJ-2VB2D331K	ECJ-2VB2D331K
			470pF	±10%	0.85	PCC1995CT-ND	2.43	17.36	62.50	104.16	PCC1995TR-ND	4,000	25.00/M	ECJ-2VB2D471K	ECJ-2VB2D471K
			680pF	±10%	0.85	PCC1996CT-ND	2.55	18.20	65.52	109.20	PCC1996TR-ND	4,000	25.00/M	ECJ-2VB2D681K	ECJ-2VB2D681K
			1000pF	±10%	0.85	PCC1997CT-ND	2.55	18.20	65.52	109.20	PCC1997TR-ND	4,000	25.00/M	ECJ-2VB2D102K	ECJ-2VB2D102K

(Continued)

Panasonic® Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. (mm) T	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Old † Panasonic Part No.	New † Panasonic Part No.
							10	100	500	1,000		Size	Pricing		
0805	X7R	200	1500pF	±10%	0.85	PCC1998CT-ND	2.67	19.04	68.54	114.24	PCC1998TR-ND	4,000	25.00/M	ECJ-2VB2D152K	ECJ-2VB2D152K
			2200pF	±10%	0.85	PCC1999CT-ND	2.74	19.60	70.56	117.60	PCC1999TR-ND	4,000	25.00/M	ECJ-2VB2D222K	ECJ-2VB2D222K
			3300pF	±10%	0.85	PCC2000CT-ND	2.74	19.60	70.56	117.60	PCC2000TR-ND	4,000	25.00/M	ECJ-2VB2D332K	ECJ-2VB2D332K
			4700pF	±10%	0.85	PCC2001CT-ND	2.94	21.00	75.60	126.00	PCC2001TR-ND	4,000	25.00/M	ECJ-2VB2D472K	ECJ-2VB2D472K
			6800pF	±10%	1.25	PCC2002CT-ND	2.94	21.00	75.60	126.00	PCC2002TR-ND	2,000	100.00/M	ECJ-2YB2D682K	ECJ-2YB2D682K
			10000pF	±10%	1.25	PCC2003CT-ND	5.52	40.53	146.61	250.10	PCC2003TR-ND	2,000	198.00/M	ECJ-2YB2D103K	ECJ-2YB2D103K
		100	220pF	±10%	0.85	PCC1981CT-ND	1.62	11.40	39.37	66.30	PCC1981TR-ND	4,000	20.00/M	ECJ-2VB2A221K	ECJ-2VB2A221K
			330pF	±10%	0.85	PCC1982CT-ND	1.62	11.40	39.37	66.30	PCC1982TR-ND	4,000	20.00/M	ECJ-2VB2A331K	ECJ-2VB2A331K
			470pF	±10%	0.85	PCC1983CT-ND	1.62	11.40	39.37	66.30	PCC1983TR-ND	4,000	20.00/M	ECJ-2VB2A471K	ECJ-2VB2A471K
			680pF	±10%	0.85	PCC1984CT-ND	1.70	12.01	41.50	69.89	PCC1984TR-ND	4,000	20.00/M	ECJ-2VB2A681K	ECJ-2VB2A681K
			1000pF	±10%	0.85	PCC1985CT-ND	1.70	12.01	41.50	69.89	PCC1985TR-ND	4,000	20.00/M	ECJ-2VB2A102K	ECJ-2VB2A102K
			1500pF	±10%	0.85	PCC1986CT-ND	1.79	12.63	43.62	73.47	PCC1986TR-ND	4,000	20.00/M	ECJ-2VB2A152K	ECJ-2VB2A152K
			2200pF	±10%	0.85	PCC1987CT-ND	1.83	12.94	44.69	75.26	PCC1987TR-ND	4,000	20.00/M	ECJ-2VB2A222K	ECJ-2VB2A222K
			3300pF	±10%	0.85	PCC1988CT-ND	1.83	12.94	44.69	75.26	PCC1988TR-ND	4,000	20.00/M	ECJ-2VB2A332K	ECJ-2VB2A332K
			4700pF	±10%	0.85	PCC1989CT-ND	1.97	13.86	47.88	80.64	PCC1989TR-ND	4,000	24.00/M	ECJ-2VB2A472K	ECJ-2VB2A472K
			6800pF	±10%	0.85	PCC1990CT-ND	1.97	13.86	47.88	80.64	PCC1990TR-ND	4,000	24.00/M	ECJ-2VB2A682K	ECJ-2VB2A682K
			10000pF	±10%	0.85	PCC1991CT-ND	3.61	25.76	92.74	154.56	PCC1991TR-ND	4,000	32.00/M	ECJ-2VB2A103K	ECJ-2VB2A103K
			15000pF	±10%	1.25	PCC1992CT-ND	3.61	25.76	92.74	154.56	PCC1992TR-ND	2,000	123.00/M	ECJ-2YB2A153K	ECJ-2YB2A153K
		50	220pF	±10%	0.60	PCC221BNCT-ND	.77	5.18	17.54	26.72	PCC221BNTR-ND	5,000	23.00/M	ECU-V1H221KBN	(Not for new design)
			390pF	±10%	0.60	PCC391BNCT-ND	.77	5.18	17.54	26.72	—	—	—	ECU-V1H391KBN	(Not for new design)
			470pF	±10%	0.60	PCC471BNCT-ND	.77	5.18	17.54	26.72	PCC471BNTR-ND	5,000	23.00/M	ECU-V1H471KBN	(Not for new design)
			680pF	±10%	0.60	PCC681BNCT-ND	.77	5.18	17.54	26.72	PCC681BNTR-ND	5,000	23.00/M	ECU-V1H681KBN	(Not for new design)
			820pF	±10%	0.60	PCC821BNCT-ND	.77	5.18	17.54	26.72	PCC821BNTR-ND	5,000	23.00/M	ECU-V1H821KBN	(Not for new design)
			1000pF	±10%	0.60	PCC102BNCT-ND•	.62	4.17	14.11	21.50	PCC102BNTR-ND	5,000	15.00/M	ECU-V1H102KBN	ECJ-2VB1H102K
			1200pF	±10%	0.60	PCC122BNCT-ND•	.62	4.17	14.11	21.50	PCC122BNTR-ND	5,000	15.00/M	ECU-V1H122KBN	ECJ-2VB1H122K
			1500pF	±10%	0.60	PCC152BNCT-ND•	.82	5.52	18.70	28.50	PCC152BNTR-ND	5,000	15.00/M	ECU-V1H152KBN	ECJ-2VB1H152K
			1800pF	±10%	0.60	PCC182BNCT-ND•	.62	4.17	14.11	21.50	PCC182BNTR-ND	5,000	15.00/M	ECU-V1H182KBN	ECJ-2VB1H182K
			2200pF	±10%	0.60	PCC222BNCT-ND•	.62	4.17	14.11	21.50	PCC222BNTR-ND	5,000	15.00/M	ECU-V1H222KBN	ECJ-2VB1H222K
			2700pF	±10%	0.60	PCC272BNCT-ND•	.67	4.51	15.29	23.30	PCC272BNTR-ND	5,000	15.00/M	ECU-V1H272KBN	ECJ-2VB1H272K
			3300pF	±10%	0.60	PCC332BNCT-ND•	.67	4.51	15.29	23.30	PCC332BNTR-ND	5,000	15.00/M	ECU-V1H332KBN	ECJ-2VB1H332K
			3900pF	±10%	0.60	PCC392BNCT-ND•	.67	4.51	15.29	23.30	PCC392BNTR-ND	5,000	15.00/M	ECU-V1H392KBN	ECJ-2VB1H392K
			4700pF	±10%	0.60	PCC472BNCT-ND•	.72	4.86	16.46	25.09	PCC472BNTR-ND	5,000	15.00/M	ECU-V1H472KBG	ECJ-2VB1H472K
			5600pF	±10%	0.60	PCC562BNCT-ND•	.80	5.42	18.34	27.95	PCC562BNTR-ND	5,000	15.00/M	ECU-V1H562KBG	ECJ-2VB1H562K
			6800pF	±10%	0.60	PCC682BNCT-ND•	.77	5.21	17.64	26.88	PCC682BNTR-ND	5,000	15.00/M	ECU-V1H682KBG	ECJ-2VB1H682K
			8200pF	±10%	0.60	PCC822BNCT-ND•	.82	5.56	18.82	28.67	PCC822BNTR-ND	5,000	15.00/M	ECU-V1H822KBG	ECJ-2VB1H822K
			10000pF	±10%	0.60	PCC103BNCT-ND•	.93	6.25	21.17	32.26	PCC103BNTR-ND	5,000	15.00/M	ECU-V1H103KBG	ECJ-2VB1H103K
			12000pF	±10%	0.60	PCC123BGCT-ND•	.93	6.25	21.17	32.26	PCC123BGTR-ND	5,000	15.00/M	ECU-V1H123KBX	ECJ-2VB1H123K
			15000pF	±10%	0.60	PCC153BGCT-ND•	.98	6.60	22.34	34.05	PCC153BGTR-ND	5,000	15.00/M	ECU-V1H153KBX	ECJ-2VB1H153K
			18000pF	±10%	0.60	PCC183BGCT-ND•	1.08	7.29	24.70	37.63	PCC183BGTR-ND	5,000	15.00/M	ECU-V1H183KBX	ECJ-2VB1H183K
			22000pF	±10%	0.60	PCC223BGCT-ND•	1.18	7.99	27.05	41.22	PCC223BGTR-ND	5,000	15.00/M	ECU-V1H223KBX	ECJ-2VB1H223K
			27000pF	±10%	1.00	PCC273BGCT-ND	1.59	10.70	36.24	58.67	PCC273BGTR-ND	4,000	47.00/M	ECU-V1H273KBX	(Not for new design)
			27000pF	±10%	0.85	PCC1833CT-ND•	.82	5.56	18.82	30.46	PCC1833TR-ND	4,000	16.00/M	ECJ-2VB1H273K	ECJ-2VB1H273K
			33000pF	±10%	0.85	PCC1834CT-ND•	.82	5.56	18.82	30.46	PCC1834TR-ND	4,000	16.00/M	ECJ-2VB1H333K	ECJ-2VB1H333K
			39000pF	±10%	0.85	PCC1835CT-ND•	1.08	7.31	24.75	40.07	PCC1835TR-ND	4,000	27.00/M	ECJ-2VB1H393K	ECJ-2VB1H393K
			47000pF	±10%	1.25	PCC1836CT-ND•	1.61	10.85	36.75	59.50	PCC1836TR-ND	2,000	48.00/M	ECJ-2YB1H473K	ECJ-2YB1H473K
			56000pF	±10%	1.25	PCC1837CT-ND•	1.61	10.85	36.75	59.50	PCC1837TR-ND	2,000	48.00/M	ECJ-2YB1H563K	ECJ-2YB1H563K
			68000pF	±10%	1.25	PCC1838CT-ND•	1.61	10.85	36.75	59.50	PCC1838TR-ND	2,000	48.00/M	ECJ-2YB1H683K	ECJ-2YB1H683K
			82000pF	±10%	1.25	PCC1839CT-ND•	1.61	10.85	36.75	59.50	PCC1839TR-ND	2,000	48.00/M	ECJ-2YB1H823K	ECJ-2YB1H823K
			.1µF	±10%	1.25	PCC1840CT-ND•	1.61	10.85	36.75	59.50	PCC1840TR-ND	2,000	48.00/M	ECJ-2YB1H104K	ECJ-2YB1H104K
		25	39000pF	±10%	0.85	PCC1819CT-ND	.93	6.25	21.17	34.27	PCC1819TR-ND	4,000	23.00/M	ECJ-2VB1E393K	ECJ-2VB1E393K
			47000pF	±10%	0.85	PCC1820CT-ND	.93	6.25	21.17	34.27	PCC1820TR-ND	4,000	17.00/M	ECJ-2VB1E473K	ECJ-2VB1E473K
			56000pF	±10%	0.85	PCC1825CT-ND	1.13	7.64	25.87	41.89	PCC1825TR-ND	4,000	17.00/M	ECJ-2VB1E563K	ECJ-2VB1E563K
			68000pF	±10%	0.85	PCC1826CT-ND	1.18	7.99	27.05	43.79	PCC1826TR-ND	4,000	17.00/M	ECJ-2VB1E683K	ECJ-2VB1E683K
			82000pF	±10%	0.85	PCC1827CT-ND	1.24	8.33	28.22	45.70	PCC1827TR-ND	4,000	17.00/M	ECJ-2VB1E823K	ECJ-2VB1E823K
			.1µF	±10%	0.85	PCC1828CT-ND	1.24	8.33	28.22	45.70	PCC1828TR-ND	4,000	17.00/M	ECJ-2VB1E104K	ECJ-2VB1E104K
			.12µF	±10%	1.25	PCC1829CT-ND•	1.44	10.18	35.15	59.20	PCC1829TR-ND	2,000	47.00/M	ECJ-2YB1E124K	ECJ-2YB1E124K
			.15µF	±10%	1.25	PCC1830CT-ND•	1.48	10.45	36.10	60.80	PCC1830TR-ND	2,000	48.00/M	ECJ-2YB1E154K	ECJ-2YB1E154K
			.18µF	±10%	1.25	PCC1831CT-ND•	1.52	10.73	37.05	62.40	PCC1831TR-ND	2,000	50.00/M	ECJ-2YB1E184K	ECJ-2YB1E184K
			.22µF	±10%	1.25	PCC1832CT-ND•	1.91	13.48	46.55	78.40	PCC1832TR-ND	2,000	62.00/M	ECJ-2YB1E224K	ECJ-2YB1E224K
		16	47000pF	±10%	0.85	PCC1808CT-ND	.88	5.90	19.99	32.37	PCC1808TR-ND	4,000	22.00/M	ECJ-2VB1C473K	ECJ-2VB1C473K
			56000pF	±10%	0.85	PCC1809CT-ND	1.13	7.64	25.87	41.89	PCC1809TR-ND	4,000	28.00/M	ECJ-2VB1C563K	ECJ-2VB1C563K
			68000pF	±10%	0.85	PCC1810CT-ND	1.05	7.39	25.54	43.01	PCC1810TR-ND	4,000	30.00/M	ECJ-2VB1C683K	ECJ-2VB1C683K
			82000pF	±10%	0.85	PCC1811CT-ND	1.05	7.39	25.54	43.01	PCC1811TR-ND	4,000	30.00/M	ECJ-2VB1C823K	ECJ-2VB1C823K
			.1µF	±10%	0.85	PCC1812CT-ND	1.05	7.39	25.54	43.01	PCC1812TR-ND	4,000	23.00/M	ECJ-2VB1C104K	ECJ-2VB1C104K
			.12µF	±10%	0.85	PCC1813CT-ND	1.09	7.70	26.60	44.80	PCC1813TR-ND	4,000	31.00/M	ECJ-2VB1C124K	ECJ-2VB1C124K
			.15µF	±10%	0.85	PCC1814CT-ND	1.22	8.62	29.79	50.18	PCC1814TR-ND	4,000	23.00/M	ECJ-2VB1C154K	ECJ-2VB1C154K
			.18µF	±10%	0.85	PCC1815CT-ND	1.61	11.48	41.33	68.88	PCC1815TR-ND	4,000	51.00/M	ECJ-2VB1C184K	ECJ-2VB1C184K
			.22µF	±10%	0.85	PCC1816CT-ND	1.61	11.48	41.33	68.88	PCC1816TR-ND	4,000	23.00/M	ECJ-2VB1C224K	ECJ-2VB1C224K
			.27µF	±10%	1.25	PCC1916CT-ND	2.38	17.00	61.20	102.00	PCC1916TR-ND	2,000	81.00/M	ECJ-2YB1C274K	ECJ-2YB1C274K
			.33µF	±10%	1.25	PCC1817CT-ND	2.45	17.50	63.00	105.00	PCC1817TR-ND	2,000	83.00/M	ECJ-2YB1C334K	ECJ-2YB1C334K
			.39µF	±10%	1.25	PCC1917CT-ND	2.38	17.00	61.20	102.00	PCC1917TR-ND	2,000	81.00/M	ECJ-2YB1C394K	ECJ-2YB1C394K
			.47µF	±10%	1.25	PCC1818CT-ND•	2.45	17.50	63.00	105.00	PCC1818TR-ND	2,000	83.00/M	ECJ-2YB1C474K	ECJ-2YB1C474K
	X5R	25	1µF	±10%	1.25	PCC2319CT-ND *NEW!*	3.26	23.25	83.70	130.20	PCC2319TR-ND *NEW!*	3,000	107.00/M	ECJ-2FB1E105K	ECJ-2FB1E105K
			2.2µF	±10%	1.25	PCC2320CT-ND *NEW!*	1.81	12.79	44.18	69.75	PCC2320TR-ND *NEW!*	3,000	53.00/M	ECJ-2FB1E225K	ECJ-2FB1E225K
			4.7µF	±20%	1.25	PCC2321CT-ND *NEW!*	2.50	17.88	64.35	100.10	PCC2321TR-ND *NEW!*	3,000	82.00/M	ECJ-2FB1E475M	ECJ-2FB1E475M
		16	.68µF	±10%	1.25	PCC2290CT-ND	1.39	9.35	31.68	48.27	PCC2290TR-ND	3,000	35.00/M	ECJ-2FB1C684K	ECJ-2FB1C684K
			1µF	±10%	0.85	PCC2314CT-ND	1.55	10.46	35.44	54.00	PCC2314TR-ND	4,000	39.00/M	ECJ-GVB1C105K	ECJ-GVB1C105K
			1µF	±10%	1.25	PCC2249CT-ND	1.39	9.35	31.68	48.27	PCC2249TR-ND	3,000	35.00/M	ECJ-2FB1C105K	ECJ-2FB1C105K
			2.2µF	±10%	1.25	PCC2322CT-ND *NEW!*	1.76	12.38	42.75	67.50	PCC2322TR-ND *NEW!*	3,000	52.00/M	ECJ-2FB1C225K	ECJ-2FB1C225K
			4.7µF	±10%	1.25	PCC2323CT-ND *NEW!*	2.45	17.50	63.00	98.00	PCC2323TR-ND *NEW!*	3,000	80.00/M	ECJ-2FB1C475K	ECJ-2FB1C475K
		10	.56µF	±10%	1.25	PCC1918CT-ND	3.99	28.50	102.60	171.00	PCC1918TR-ND	2,000	136.00/M	ECJ-2YB1A564K	ECJ-2YB1A564K
			.68µF	±10%	1.25	PCC1806CT-ND	4.10	29.25	105.30	175.50	PCC1806TR-ND	2,000	139.00/M	ECJ-2YB1A684K	ECJ-2YB1A684K
			.68µF	±10%	1.25	PCC2289CT-ND	1.25	8.42	28.51	43.44	PCC2289TR-ND	3,000	31.00/M	ECJ-2FB1A684K	ECJ-2FB1A684K
			.82µF	±10%	1.25	PCC1919CT-ND	4.03	29.61	107.10	182.70	PCC1919TR-ND	2,000	145.00/M	ECJ-2YB1A824K	ECJ-2YB1A824K

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. (mm) T	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
0805	X5R	10	1µF	±10%	1.25	PCC1807CT-ND	4.13	30.32	109.65	187.05	PCC1807TR-ND	2,000	148.00/M	ECJ-2YB1A105K	ECJ-2YB1A105K
			2.2µF	±20%	1.25	PCC2175CT-ND	5.07	36.23	130.41	217.35	PCC2175TR-ND	3,000	82.00/M	ECJ-2FB1A225M	ECJ-2FB1A225M
			2.2µF	±10%	1.25	PCC2324CT-ND *NEW!*	2.61	18.62	67.03	104.27	PCC2324TR-ND *NEW!*	3,000	85.00/M	ECJ-2FB1A225K	ECJ-2FB1A225K
			3.3µF	±10%	1.25	PCC2288CT-ND	5.16	36.88	132.75	206.50	PCC2288TR-ND	3,000	85.00/M	ECJ-2FB1A335K	ECJ-2FB1A335K
			4.7µF	±10%	1.25	PCC2325CT-ND *NEW!*	4.53	32.38	116.55	181.30	PCC2325TR-ND *NEW!*	3,000	149.00/M	ECJ-2FB1A475K	ECJ-2FB1A475K
		6.3	1.5µF	±10%	1.25	PCC1921CT-ND	4.35	31.96	115.60	197.20	PCC1921TR-ND	2,000	156.00/M	ECJ-2YB0J155K	ECJ-2YB0J155K
			2.2µF	±10%	0.85	PCC2310CT-ND	1.94	13.70	47.32	74.72	PCC2310TR-ND	4,000	55.00/M	ECJ-GVB0J225K	ECJ-GVB0J225K
			2.2µF	±10%	1.25	PCC1923CT-ND	3.19	23.42	84.73	144.54	PCC1923TR-ND	2,000	114.00/M	ECJ-2YB0J225K	ECJ-2YB0J225K
			3.3µF	±10%	1.25	PCC1925CT-ND	3.44	25.27	91.39	155.90	PCC1925TR-ND	2,000	123.00/M	ECJ-2YB0J335K	ECJ-2YB0J335K
			4.7µF	±20%	0.85	PCC2315CT-ND	3.46	24.69	88.88	138.25	PCC2315TR-ND	4,000	109.00/M	ECJ-GVB0J475M	ECJ-GVB0J475M
			4.7µF	±20%	1.25	PCC2176CT-ND	10.18	72.74	261.86	436.43	PCC2176TR-ND	3,000	95.00/M	ECJ-2FB0J475M	ECJ-2FB0J475M
			10µF	±20%	1.25	PCC2225CT-ND	4.85	36.41	129.44	215.19	PCC2225TR-ND	3,000	179.00/M	ECJ-2FB0J106M	ECJ-2FB0J106M
	Y5V	50	10000pF	+80%/-20%	0.60	PCC1858CT-ND	.47	3.20	10.84	16.51	PCC1858TR-ND	5,000	12.00/M	ECJ-2VF1H103Z	ECJ-2VF1H103Z
			15000pF	+80%/-20%	0.60	PCC1859CT-ND	.46	3.12	10.58	16.13	PCC1859TR-ND	5,000	12.00/M	ECJ-2VF1H153Z	ECJ-2VF1H153Z
			22000pF	+80%/-20%	0.60	PCC1860CT-ND	.55	3.72	12.59	19.18	PCC1860TR-ND	5,000	14.00/M	ECJ-2VF1H223Z	ECJ-2VF1H223Z
			33000pF	+80%/-20%	0.60	PCC1861CT-ND	.46	3.12	10.58	16.13	PCC1861TR-ND	5,000	12.00/M	ECJ-2VF1H333Z	ECJ-2VF1H333Z
			47000pF	+80%/-20%	0.60	PCC1862CT-ND	.63	4.28	14.49	22.08	PCC1862TR-ND	5,000	16.00/M	ECJ-2VF1H473Z	ECJ-2VF1H473Z
			68000pF	+80%/-20%	0.60	PCC1863CT-ND	.62	4.17	14.11	21.50	PCC1863TR-ND	5,000	15.00/M	ECJ-2VF1H683Z	ECJ-2VF1H683Z
			.1µF	+80%/-20%	0.85	PCC1864CT-ND	.78	5.26	17.83	28.87	PCC1864TR-ND	4,000	19.00/M	ECJ-2VF1H104Z	ECJ-2VF1H104Z
			.15µF	+80%/-20%	0.85	PCC1865CT-ND	.98	6.60	22.34	36.18	PCC1865TR-ND	4,000	24.00/M	ECJ-2VF1H154Z	ECJ-2VF1H154Z
			.22µF	+80%/-20%	0.85	PCC1866CT-ND	1.08	7.31	24.75	40.07	PCC1866TR-ND	4,000	27.00/M	ECJ-2VF1H224Z	ECJ-2VF1H224Z
		25	68000pF	+80%/-20%	0.60	PCC1852CT-ND	.62	4.17	14.11	21.50	PCC1852TR-ND	5,000	15.00/M	ECJ-2VF1E683Z	ECJ-2VF1E683Z
			.1µF	+80%/-20%	0.60	PCC1853CT-ND	.72	4.86	16.46	25.09	PCC1853TR-ND	5,000	14.00/M	ECJ-2VF1E104Z	ECJ-2VF1E104Z
			.15µF	+80%/-20%	0.60	PCC1854CT-ND	.82	5.56	18.82	28.67	PCC1854TR-ND	5,000	21.00/M	ECJ-2VF1E154Z	ECJ-2VF1E154Z
			.22µF	+80%/-20%	0.85	PCC1855CT-ND	1.03	6.94	23.52	38.08	PCC1855TR-ND	4,000	16.00/M	ECJ-2VF1E224Z	ECJ-2VF1E224Z
			.33µF	+80%/-20%	1.25	PCC1856CT-ND	2.30	16.23	56.05	94.40	PCC1856TR-ND	2,000	75.00/M	ECJ-2YF1E334Z	ECJ-2YF1E334Z
			.47µF	+80%/-20%	1.25	PCC1857CT-ND	2.38	16.78	57.95	97.60	PCC1857TR-ND	2,000	78.00/M	ECJ-2YF1E474Z	ECJ-2YF1E474Z
		16	.1µF	+80%/-20%	0.60	PCC1843CT-ND	.81	5.45	18.46	28.13	PCC1843TR-ND	5,000	16.00/M	ECJ-2VF1C104Z	ECJ-2VF1C104Z
			.15µF	+80%/-20%	0.60	PCC1844CT-ND	.77	5.21	17.64	26.88	PCC1844TR-ND	5,000	19.00/M	ECJ-2VF1C154Z	ECJ-2VF1C154Z
			.22µF	+80%/-20%	0.60	PCC1845CT-ND	.98	6.60	22.34	34.05	PCC1845TR-ND	5,000	16.00/M	ECJ-2VF1C224Z	ECJ-2VF1C224Z
			.33µF	+80%/-20%	0.85	PCC1846CT-ND	1.08	7.29	24.70	39.98	PCC1846TR-ND	4,000	27.00/M	ECJ-2VF1C334Z	ECJ-2VF1C334Z
			.47µF	+80%/-20%	0.85	PCC1847CT-ND	1.09	7.70	26.60	44.80	PCC1847TR-ND	4,000	17.00/M	ECJ-2VF1C474Z	ECJ-2VF1C474Z
			.68µF	+80%/-20%	0.85	PCC1848CT-ND	1.27	8.93	30.86	51.97	PCC1848TR-ND	4,000	36.00/M	ECJ-2VF1C684Z	ECJ-2VF1C684Z
			1µF	+80%/-20%	0.85	PCC1849CT-ND	1.49	10.64	38.30	63.84	PCC1849TR-ND	4,000	25.00/M	ECJ-2VF1C105Z	ECJ-2VF1C105Z
			1.5µF	+80%/-20%	1.25	PCC1850CT-ND	3.43	24.50	88.20	147.00	PCC1850TR-ND	2,000	117.00/M	ECJ-2YF1C155Z	ECJ-2YF1C155Z
			2.2µF	+80%/-20%	1.25	PCC1851CT-ND	3.85	27.50	99.00	165.00	PCC1851TR-ND	2,000	131.00/M	ECJ-2YF1C225Z	ECJ-2YF1C225Z
		10	4.7µF	+80%/-20%	1.25	PCC1842CT-ND	4.42	32.43	117.30	200.10	PCC1842TR-ND	2,000	158.00/M	ECJ-2YF1A475Z	ECJ-2YF1A475Z
		6.3	10µF	+80%/-20%	1.25	PCC2182CT-ND	6.60	47.15	169.74	282.90	PCC2182TR-ND	3,000	69.00/M	ECJ-2FF0J106Z	ECJ-2FF0J106Z
	F	25	1.0µF	+80%/-20%	1.25	PCC2230CT-ND	2.29	16.13	55.72	87.98	PCC2230TR-ND	3,000	30.00/M	ECJ-2FF1E105Z	ECJ-2FF1E105Z
			2.2µF	+80%/-20%	1.25	PCC2231CT-ND	3.30	23.58	84.87	132.02	PCC2231TR-ND	3,000	36.00/M	ECJ-2FF1E225Z	ECJ-2FF1E225Z
		16	4.7µF	+80%/-20%	1.25	PCC2232CT-ND	4.31	30.76	110.75	172.27	PCC2232TR-ND	3,000	64.00/M	ECJ-2FF1C475Z	ECJ-2FF1C475Z
		10	10µF	+80%/-20%	1.25	PCC2233CT-ND	4.64	34.05	123.17	195.62	PCC2233TR-ND	3,000	75.00/M	ECJ-2FF1A106Z	ECJ-2FF1A106Z
1206	NP0	200	470pF	±5%	1.15	PCC2007CT-ND•	4.77	35.01	126.62	215.99	PCC2007TR-ND	2,000	171.00/M	ECJ-3YC2D471J	ECJ-3YC2D471J
			680pF	±5%	1.15	PCC2008CT-ND•	5.99	43.95	158.98	271.21	PCC2008TR-ND	2,000	215.00/M	ECJ-3YC2D681J	ECJ-3YC2D681J
			1000pF	±5%	1.15	PCC2009CT-ND•	6.95	51.06	184.69	315.06	PCC2009TR-ND	2,000	249.00/M	ECJ-3YC2D102J	ECJ-3YC2D102J
		100	1500pF	±5%	0.85	PCC2004CT-ND•	4.84	35.53	128.52	219.24	PCC2004TR-ND	4,000	167.00/M	ECJ-3VC2A152J	ECJ-3VC2A152J
			2200pF	±5%	0.85	PCC2005CT-ND•	5.63	41.32	149.46	254.97	PCC2005TR-ND	4,000	167.00/M	ECJ-3VC2A222J	ECJ-3VC2A222J
			3300pF	±5%	0.85	PCC2006CT-ND•	7.56	55.54	200.87	342.66	PCC2006TR-ND	4,000	167.00/M	ECJ-3VC2A332J	ECJ-3VC2A332J
		50	.5pF	±0.25pF	0.60	PCC0R5CCT-ND	1.11	7.51	25.42	38.74	PCC0R5CTR-ND	5,000	33.00/M	ECU-V1H0R5CCM	(Not for new design)
			1.0pF	±0.25pF	0.60	PCC010CCT-ND	1.13	7.59	25.71	39.18	PCC010CTR-ND	5,000	33.00/M	ECU-V1H010CCM	(Not for new design)
			1.5pF	±0.25pF	0.60	PCC1R5CCT-ND	.93	6.27	21.25	32.38	—	—	—	ECU-V1H1R5CCM	(Not for new design)
			2.2pF	±0.25pF	0.60	PCC2R2CCT-ND	.93	6.27	21.25	32.38	—	—	—	ECU-V1H2R2CCM	(Not for new design)
			3.3pF	±0.25pF	0.60	PCC3R3CCT-ND	.93	6.27	21.25	32.38	—	—	—	ECU-V1H3R3CCM	(Not for new design)
			3.9pF	±0.25pF	0.60	PCC3R9CCT-ND	.93	6.27	21.25	32.38	PCC3R9CTR-ND	5,000	27.00/M	ECU-V1H3R9CCM	(Not for new design)
			4.7pF	±0.25pF	0.60	PCC4R7CCT-ND	1.13	7.59	25.71	39.18	PCC4R7CTR-ND	5,000	33.00/M	ECU-V1H4R7CCM	(Not for new design)
			5.6pF	±0.25pF	0.60	PCC5R6CCT-ND	1.13	7.59	25.71	39.18	PCC5R6CTR-ND	5,000	33.00/M	ECU-V1H5R6CCM	(Not for new design)
			15pF	±5%	0.60	PCC150CCT-ND	1.21	8.15	27.62	42.08	PCC150CTR-ND	5,000	36.00/M	ECU-V1H150JCM	(Not for new design)
			20pF	±5%	0.60	PCC200CCT-ND	1.21	8.15	27.62	42.08	PCC200CTR-ND	5,000	36.00/M	ECU-V1H200JCM	(Not for new design)
			27pF	±5%	0.60	PCC270CCT-ND	1.21	8.15	27.62	42.08	PCC270CTR-ND	5,000	36.00/M	ECU-V1H270JCM	(Not for new design)
			56pF	±5%	0.60	PCC560CCT-ND	1.35	9.13	30.91	47.10	PCC560CTR-ND	5,000	40.00/M	ECU-V1H560JCM	(Not for new design)
			68pF	±5%	0.60	PCC680CCT-ND	1.35	9.13	30.91	47.10	PCC680CTR-ND	5,000	40.00/M	ECU-V1H680JCM	(Not for new design)
			100pF	±5%	0.60	PCC101CCT-ND	1.35	9.13	30.91	47.10	PCC101CTR-ND	5,000	40.00/M	ECU-V1H101JCH	(Not for new design)
			120pF	±5%	0.60	PCC121CCT-ND	1.35	9.11	30.86	47.02	PCC121CTR-ND	5,000	40.00/M	ECU-V1H121JCH	(Not for new design)
			2700pF	±5%	0.60	PCC2160CT-ND•	12.15	85.70	296.07	467.48	PCC2160TR-ND	5,000	344.00/M	ECJ-3VC1H272J	ECJ-3VC1H272J
			3300pF	±5%	0.60	PCC2161CT-ND•	15.20	107.21	370.36	584.78	PCC2161TR-ND	5,000	161.00/M	ECJ-3VC1H332J	ECJ-3VC1H332J
			3900pF	±5%	0.60	PCC2162CT-ND•	16.86	118.91	410.78	648.60	PCC2162TR-ND	5,000	161.00/M	ECJ-3VC1H392J	ECJ-3VC1H392J
			4700pF	±5%	0.60	PCC2163CT-ND•	17.76	125.24	432.63	683.10	PCC2163TR-ND	5,000	161.00/M	ECJ-3VC1H472J	ECJ-3VC1H472J
			5600pF	±5%	0.85	PCC2164CT-ND•	18.70	131.88	455.57	719.33	PCC2164TR-ND	4,000	294.00/M	ECJ-3VC1H562J	ECJ-3VC1H562J
			6800pF	±5%	0.85	PCC2165CT-ND•	18.70	131.88	455.57	719.33	PCC2165TR-ND	4,000	313.00/M	ECJ-3VC1H682J	ECJ-3VC1H682J
			8200pF	±5%	1.15	PCC2166CT-ND•	11.49	86.18	306.43	555.41	PCC2166TR-ND	3,000	405.00/M	ECJ-3YC1H822J	ECJ-3FC1H822J
			10000pF	±5%	1.15	PCC2167CT-ND•	17.00	119.90	414.20	654.00	PCC2167TR-ND	3,000	481.78/M	ECJ-3YC1H103J	ECJ-3FC1H103J
	X7R	630	1000pF	±10%	1.15	PCC2291CT-ND	2.64	18.86	67.89	105.60	PCC2291TR-ND	3,000	87.00/M	ECJ-3FB2J102K	ECJ-3FB2J102K
			2200pF	±10%	1.15	PCC2293CT-ND	2.64	18.86	67.89	105.60	PCC2293TR-ND	3,000	87.00/M	ECJ-3FB2J222K	ECJ-3FB2J222K
			4700pF	±10%	1.15	PCC2294CT-ND	2.64	18.86	67.89	105.60	PCC2294TR-ND	3,000	87.00/M	ECJ-3FB2J472K	ECJ-3FB2J472K
			.01µF	±10%	1.15	PCC2292CT-ND	2.64	18.86	67.89	105.60	PCC2292TR-ND	3,000	87.00/M	ECJ-3FB2J103K	ECJ-3FB2J103K
		200	15000pF	±10%	1.15	PCC2013CT-ND	6.98	51.23	185.30	316.10	PCC2013TR-ND	2,000	250.00/M	ECJ-3YB2D153K	ECJ-3YB2D153K
			22000pF	±10%	1.15	PCC2014CT-ND	6.98	51.23	185.30	316.10	PCC2014TR-ND	2,000	250.00/M	ECJ-3YB2D223K	ECJ-3YB2D223K
		100	22000pF	±10%	1.15	PCC2010CT-ND	4.55	32.50	117.00	195.00	PCC2010TR-ND	2,000	155.00/M	ECJ-3YB2A223K	ECJ-3YB2A223K
			33000pF	±10%	1.15	PCC2011CT-ND	5.04	36.00	129.60	216.00	PCC2011TR-ND	2,000	171.00/M	ECJ-3YB2A333K	ECJ-3YB2A333K
			47000pF	±10%	1.15	PCC2012CT-ND	5.04	36.00	129.60	216.00	PCC2012TR-ND	2,000	171.00/M	ECJ-3YB2A473K	ECJ-3YB2A473K
			0.1µF	±10%	1.60	PCC2239CT-ND	4.34	31.89	115.35	183.20	PCC2239TR-ND	2,000	122.00/M	ECJ-3YB2A104K	ECJ-3YB2A104K

(Continued)

Panasonic® Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. (mm) T	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Old † Panasonic Part No.	New † Panasonic Part No.
							10	100	500	1,000		Size	Pricing		
1206	X7R	50	220pF	±10%	0.60	PCC221BCT-ND	1.08	7.25	24.55	37.41	PCC221BTR-ND	5,000	32.00/M	ECU-V1H221KBM	(Not for new design)
			270pF	±10%	0.60	PCC271BCT-ND	1.08	7.25	24.55	37.41	PCC271BTR-ND	5,000	32.00/M	ECU-V1H271KBM	(Not for new design)
			330pF	±10%	0.60	PCC331BCT-ND	1.08	7.25	24.55	37.41	PCC331BTR-ND	5,000	32.00/M	ECU-V1H331KBM	(Not for new design)
			390pF	±10%	0.60	PCC391BCT-ND	1.08	7.25	24.55	37.41	PCC391BTR-ND	5,000	32.00/M	ECU-V1H391KBM	(Not for new design)
			470pF	±10%	0.60	PCC471BCT-ND	1.08	7.25	24.55	37.41	PCC471BTR-ND	5,000	32.00/M	ECU-V1H471KBM	(Not for new design)
			560pF	±10%	0.60	PCC561BCT-ND	1.08	7.25	24.55	37.41	PCC561BTR-ND	5,000	32.00/M	ECU-V1H561KBM	(Not for new design)
			680pF	±10%	0.60	PCC681BCT-ND	1.07	7.21	24.43	37.23	PCC681BTR-ND	5,000	31.00/M	ECU-V1H681KBM	(Not for new design)
			1000pF	±10%	0.60	PCC102BCT-ND	1.17	7.88	26.68	40.66	PCC102BTR-ND	5,000	34.00/M	ECU-V1H102KBM	(Not for new design)
			1200pF	±10%	0.60	PCC122BCT-ND	1.17	7.88	26.68	40.66	PCC122BTR-ND	5,000	34.00/M	ECU-V1H122KBM	(Not for new design)
			1800pF	±10%	0.60	PCC182BCT-ND	1.17	7.88	26.68	40.66	—	—	—	ECU-V1H182KBM	(Not for new design)
			2200pF	±10%	0.60	PCC222BCT-ND	1.17	7.88	26.68	40.66	PCC222BTR-ND	5,000	34.00/M	ECU-V1H222KBM	(Not for new design)
			2700pF	±10%	0.60	PCC272BCT-ND	1.18	7.97	27.00	41.14	—	—	—	ECU-V1H272KBM	(Not for new design)
			3300pF	±10%	0.60	PCC332BCT-ND	1.18	7.94	26.88	40.96	PCC332BTR-ND	5,000	35.00/M	ECU-V1H332KBM	(Not for new design)
			4700pF	±10%	0.60	PCC472BCT-ND	1.31	8.83	29.90	45.57	PCC472BTR-ND	5,000	38.00/M	ECU-V1H472KBM	(Not for new design)
			5600pF	±10%	0.60	PCC562BCT-ND	1.35	9.13	30.91	47.10	PCC562BTR-ND	5,000	40.00/M	ECU-V1H562KBM	(Not for new design)
			6800pF	±10%	0.60	PCC682BCT-ND	1.40	9.42	31.92	48.64	PCC682BTR-ND	5,000	41.00/M	ECU-V1H682KBM	(Not for new design)
			8200pF	±10%	0.60	PCC822BCT-ND	1.44	9.72	32.93	50.18	PCC822BTR-ND	5,000	42.00/M	ECU-V1H822KBM	(Not for new design)
			10000pF	±10%	0.60	PCC103BCT-ND	1.47	9.94	33.66	51.30	PCC103BTR-ND	5,000	43.00/M	ECU-V1H103KBM	(Not for new design)
			12000pF	±10%	0.60	PCC123BCT-ND	1.56	10.48	35.50	54.10	PCC123BTR-ND	5,000	46.00/M	ECU-V1H123KBM	(Not for new design)
			18000pF	±10%	0.60	PCC183BCT-ND	1.73	11.63	39.41	60.05	PCC183BTR-ND	5,000	51.00/M	ECU-V1H183KBM	(Not for new design)
			22000pF	±10%	0.60	PCC223BCT-ND	1.82	12.24	41.46	63.18	PCC223BTR-ND	5,000	53.00/M	ECU-V1H223KBM	(Not for new design)
			27000pF	±10%	0.60	PCC273BCT-ND	1.82	12.24	41.46	63.18	PCC273BTR-ND	5,000	53.00/M	ECU-V1H273KBW	(Not for new design)
			33000pF	±10%	0.60	PCC333BCT-ND	2.13	14.34	48.58	74.03	PCC333BTR-ND	5,000	62.00/M	ECU-V1H333KBW	(Not for new design)
			39000pF	±10%	0.60	PCC393BCT-ND	2.17	14.64	49.57	75.54	PCC393BTR-ND	5,000	64.00/M	ECU-V1H393KBW	(Not for new design)
			47000pF	±10%	0.60	PCC473BCT-ND	1.91	13.47	46.53	73.47	PCC473BTR-ND	5,000	64.00/M	ECU-V1H473KBW	(Not for new design)
			.1µF	±10%	1.00	PCC104BCT-ND	3.43	24.53	88.29	147.15	PCC104BTR-ND	4,000	108.00/M	ECU-V1H104KBW	ECJ-3VB1H104K
			.22µF	±10%	1.60	PCC2299CT-ND	2.47	17.40	60.10	94.89	PCC2299TR-ND	2,000	73.00/M	ECJ-3YB1H224K	ECJ-3YB1H224K
		25	.1µF	±10%	0.85	PCC1883CT-ND	1.84	12.97	44.79	75.44	PCC1883TR-ND	4,000	52.00/M	ECJ-3VB1E104K	ECJ-3VB1E104K
			.12µF	±10%	0.85	PCC1884CT-ND	1.83	12.94	44.69	75.26	PCC1884TR-ND	4,000	58.00/M	ECJ-3VB1E124K	ECJ-3VB1E124K
			.15µF	±10%	0.85	PCC1885CT-ND	1.84	12.97	44.79	75.44	PCC1885TR-ND	4,000	52.00/M	ECJ-3VB1E154K	ECJ-3VB1E154K
			.18µF	±10%	0.85	PCC1886CT-ND	1.83	12.94	44.69	75.26	PCC1886TR-ND	4,000	52.00/M	ECJ-3VB1E184K	ECJ-3VB1E184K
			.22µF	±10%	0.85	PCC1887CT-ND	2.27	16.02	55.33	93.18	PCC1887TR-ND	4,000	52.00/M	ECJ-3VB1E224K	ECJ-3VB1E224K
			.27µF	±10%	0.85	PCC1888CT-ND	2.27	16.02	55.33	93.18	PCC1888TR-ND	4,000	68.00/M	ECJ-3VB1E274K	ECJ-3VB1E274K
			.33µF	±10%	0.85	PCC1889CT-ND	2.27	16.02	55.33	93.18	PCC1889TR-ND	4,000	54.00/M	ECJ-3VB1E334K	ECJ-3VB1E334K
			.39µF	±10%	1.15	PCC1890CT-ND	3.36	24.00	86.40	144.00	PCC1890TR-ND	2,000	114.00/M	ECJ-3YB1E394K	ECJ-3YB1E394K
			.47µF	±10%	1.15	PCC1891CT-ND	4.17	29.75	107.10	178.50	PCC1891TR-ND	2,000	142.00/M	ECJ-3YB1E474K	ECJ-3YB1E474K
			.56µF	±10%	1.60	PCC1926CT-ND	2.98	21.28	76.61	127.68	PCC1926TR-ND	2,000	101.00/M	ECJ-3YB1E564K	ECJ-3YB1E564K
			.68µF	±10%	1.60	PCC1892CT-ND	2.98	21.28	76.61	127.68	PCC1892TR-ND	2,000	58.00/M	ECJ-3YB1E684K	ECJ-3YB1E684K
			.82µF	±10%	1.60	PCC1927CT-ND	2.87	21.06	76.16	129.92	PCC1927TR-ND	2,000	103.00/M	ECJ-3YB1E824K	ECJ-3YB1E824K
			1µF	±10%	1.60	PCC1893CT-ND	3.23	23.69	85.68	146.16	PCC1893TR-ND	2,000	97.00/M	ECJ-3YB1E105K	ECJ-3YB1E105K
		16	.1µF	±10%	0.85	PCC1870CT-ND	1.83	13.06	47.03	78.38	PCC1870TR-ND	4,000	58.00/M	ECJ-3VB1C104K	ECJ-3VB1C104K
			.12µF	±10%	0.85	PCC1871CT-ND	1.69	12.04	43.34	72.24	PCC1871TR-ND	4,000	53.00/M	ECJ-3VB1C124K	ECJ-3VB1C124K
			.15µF	±10%	0.85	PCC1872CT-ND	2.01	14.39	51.81	86.36	PCC1872TR-ND	4,000	64.00/M	ECJ-3VB1C154K	ECJ-3VB1C154K
			.18µF	±10%	0.85	PCC1873CT-ND	1.76	12.60	45.36	75.60	PCC1873TR-ND	4,000	56.00/M	ECJ-3VB1C184K	ECJ-3VB1C184K
			.22µF	±10%	0.85	PCC1874CT-ND	2.21	15.76	56.73	94.55	PCC1874TR-ND	4,000	70.00/M	ECJ-3VB1C224K	ECJ-3VB1C224K
			.27µF	±10%	0.85	PCC1875CT-ND	1.92	13.72	49.39	82.32	PCC1875TR-ND	4,000	61.00/M	ECJ-3VB1C274K	ECJ-3VB1C274K
			.33µF	±10%	0.85	PCC1876CT-ND	2.00	14.28	51.41	85.68	PCC1876TR-ND	4,000	43.00/M	ECJ-3VB1C334K	ECJ-3VB1C334K
			.39µF	±10%	0.85	PCC1877CT-ND	2.31	16.52	59.47	99.12	PCC1877TR-ND	4,000	73.00/M	ECJ-3VB1C394K	ECJ-3VB1C394K
			.47µF	±10%	0.85	PCC1878CT-ND	2.55	18.20	65.52	109.20	PCC1878TR-ND	4,000	46.00/M	ECJ-3VB1C474K	ECJ-3VB1C474K
			.56µF	±10%	0.85	PCC1879CT-ND	2.62	19.21	69.50	118.55	PCC1879TR-ND	4,000	90.00/M	ECJ-3VB1C564K	ECJ-3VB1C564K
			.68µF	±10%	0.85	PCC1880CT-ND	2.76	20.27	73.30	125.05	PCC1880TR-ND	4,000	53.00/M	ECJ-3VB1C684K	ECJ-3VB1C684K
			.82µF	±10%	1.15	PCC1881CT-ND	5.41	39.72	143.65	245.05	PCC1881TR-ND	2,000	194.00/M	ECJ-3YB1C824K	ECJ-3YB1C824K
			1µF	±10%	1.15	PCC1882CT-ND	6.30	46.30	167.45	285.65	PCC1882TR-ND	2,000	226.00/M	ECJ-3YB1C105K	ECJ-3YB1C105K
			1.2µF	±10%	1.60	PCC1928CT-ND	6.53	47.94	173.40	295.80	PCC1928TR-ND	2,000	275.00/M	ECJ-3YB1C125K	(Not for new design)
			1.5µF	±10%	1.60	PCC1929CT-ND	1.47	10.79	39.03	66.58	PCC1929TR-ND	2,000	53.00/M	ECJ-3YB1C155K	ECJ-3YB1C155K
			2.2µF	±10%	1.60	PCC1931CT-ND	6.18	46.37	164.86	298.82	PCC1931TR-ND	2,000	149.00/M	ECJ-3YB1C225K	ECJ-3YB1C225K
	X5R	25	2.2µF	±10%	1.60	PCC2296CT-ND	4.22	31.00	112.12	178.07	PCC2296TR-ND	2,000	151.00/M	ECJ-3YB1E225K	ECJ-3YB1E225K
			4.7µF	±10%	1.60	PCC2297CT-ND	5.91	43.43	157.08	249.48	PCC2297TR-ND	2,000	212.00/M	ECJ-3YB1E475K	ECJ-3YB1E475K
			4.7µF	±20%	1.60	PCC2241CT-ND	6.77	50.74	180.42	299.94	PCC2241TR-ND	2,000	204.00/M	ECJ-3YB1E475M	ECJ-3YB1E475M
			10µF	±20%	1.60	PCC2326CT-ND *NEW!*	6.08	44.65	161.50	256.50	PCC2326TR-ND *NEW!*	2,000	218.00/M	ECJ-3YB1E106M	ECJ-3YB1E106M
			4.7µF	±20%	1.60	PCC2226CT-ND	5.54	41.58	147.84	245.78	PCC2226TR-ND	2,000	204.00/M	ECJ-3YB1C475M	ECJ-3YB1C475M
		16	4.7µF	±10%	1.60	PCC2250CT-ND	5.94	43.65	157.89	250.76	PCC2250TR-ND	2,000	212.00/M	ECJ-3YB1C475K	ECJ-3YB1C475K
			10µF	±20%	1.60	PCC2227CT-ND	11.22	84.17	299.28	497.55	PCC2227TR-ND	2,000	413.00/M	ECJ-3YB1C106M	ECJ-3YB1C106M
			1.2µF	±10%	1.60	PCC1932CT-ND	6.53	47.94	173.40	295.80	—	—	—	ECJ-3YB1A125K	(Not for new design)
			1.5µF	±10%	1.60	PCC1867CT-ND	5.07	38.05	135.30	245.22	PCC1867TR-ND	2,000	117.00/M	ECJ-3YB1A155K	ECJ-3YB1A155K
			1.8µF	±10%	1.60	PCC1933CT-ND	7.50	56.25	200.00	362.50	—	—	—	ECJ-3YB1A185K	(Not for new design)
		10	2.2µF	±10%	0.85	PCC2312CT-ND	4.44	32.62	117.98	187.38	PCC2312TR-ND	4,000	153.00/M	ECJ-HVB1A225K	ECJ-HVB1A225K
			2.2µF	±10%	1.60	PCC1868CT-ND	9.34	70.06	249.09	451.47	PCC1868TR-ND	2,000	147.00/M	ECJ-3YB1A225K	ECJ-3YB1A225K
			2.7µF	±10%	1.60	PCC1934CT-ND	8.52	63.90	227.20	411.80	PCC1934TR-ND	2,000	378.00/M	ECJ-3YB1A275K	(Not for new design)
			3.3µF	±10%	1.60	PCC1869CT-ND	9.34	70.06	249.09	451.47	PCC1869TR-ND	2,000	147.00/M	ECJ-3YB1A335K	ECJ-3YB1A335K
			4.7µF	±10%	1.60	PCC2295CT-ND	5.13	37.67	136.26	216.41	PCC2295TR-ND	2,000	184.00/M	ECJ-3YB1A475K	ECJ-3YB1A475K
			4.7µF	±20%	1.60	PCC2177CT-ND	13.97	104.79	372.60	675.34	PCC2177TR-ND	2,000	181.00/M	ECJ-3YB1A475M	ECJ-3YB1A475M
			10µF	±20%	1.60	PCC2178CT-ND	13.97	104.79	372.60	675.34	PCC2178TR-ND	2,000	220.00/M	ECJ-3YB1A106M	ECJ-3YB1A106M
		6.3	4.7µF	±10%	1.60	PCC1936CT-ND	9.34	70.06	249.09	451.47	PCC1936TR-ND	2,000	170.00/M	ECJ-3YB0J475K	ECJ-3YB0J475K
			4.7µF	±10%	0.85	PCC2311CT-ND	5.14	37.74	136.51	216.81	PCC2311TR-ND	4,000	177.00/M	ECJ-HVB0J475K	ECJ-HVB0J475K
			4.7µF	±20%	0.85	PCC2316CT-ND	5.12	37.61	136.05	216.08	PCC2316TR-ND	4,000	177.00/M	ECJ-HVB0J475M	ECJ-HVB0J475M
			5.6µF	±10%	1.60	PCC1937CT-ND	10.20	76.50	272.00	493.00	—	—	—	ECJ-3YB0J565K	(Not for new design)
			6.8µF	±10%	1.60	PCC1938CT-ND	9.34	70.06	249.09	451.47	PCC1938TR-ND	2,000	352.00/M	ECJ-3YB0J685K	ECJ-3YB0J685K
			8.2µF	±10%	1.60	PCC1939CT-ND	11.58	86.85	308.80	559.70	PCC1939TR-ND	2,000	513.00/M	ECJ-3YB0J825K	(Not for new design)
			10µF	±10%	1.60	PCC1940CT-ND	9.34	70.06	249.09	451.47	PCC1940TR-ND	2,000	352.00/M	ECJ-3YB0J106K	ECJ-3YB0J106K
			10µF	±20%	0.85	PCC2317CT-ND	8.69	65.18	231.76	385.30	PCC2317TR-ND	4,000	315.00/M	ECJ-HVB0J106M	ECJ-HVB0J106M
			22µF	±20%	1.60	PCC2242CT-ND	13.99	105.60	396.00	686.40	PCC2242TR-ND	2,000	574.00/M	ECJ-3YB0J226M	ECJ-3YB0J226M
	Y5V	25	.47µF	+80%/-20%	0.85	PCC1901CT-ND	1.83	12.94	44.69	75.26	PCC1901TR-ND	4,000	39.00/M	ECJ-3VF1E474Z	ECJ-3VF1E474Z
			.68µF	+80%/-20%	1.15	PCC1902CT-ND	2.87	20.50	73.80	123.00	PCC1902TR-ND	2,000	98.00/M	ECJ-3YF1E684Z	ECJ-3YF1E684Z
			1µF	+80%/-20%	1.15	PCC1903CT-ND	3.29	23.50	84.60	141.00	PCC1903TR-ND	2,000	112.00/M	ECJ-3YF1E105Z	ECJ-3YF1E105Z
			1.5µF	+80%/-20%	1.15	PCC1904CT-ND	4.19	30.79	111.35	189.95	PCC1904TR-ND	2,000	150.00/M	ECJ-3YF1E155Z	ECJ-3YF1E155Z
			2.2µF	+80%/-20%	1.15	PCC1905CT-ND	4.19	30.79	111.35	189.95	PCC1905TR-ND	2,000	150.00/M	ECJ-3YF1E225Z	ECJ-3YF1E225Z

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Panasonic® Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

					Dim.		Cut Tape Pricing					Tape & Reel		Old †	New †
Size Code	Type	WV DC	Cap.	Tolerance	(mm) T	Digi-Key Part No.	10	100	500	1,000	Digi-Key Part No.	Size	Pricing	Panasonic Part No.	Panasonic Part No.
1206	Y5V	16	.68µF	+80%/-20%	0.85	PCC1895CT-ND	2.86	20.44	73.58	122.64	PCC1895TR-ND	4,000	90.00/M	ECJ-3VF1C684Z	ECJ-3VF1C684Z
			1µF	+80%/-20%	0.85	PCC1896CT-ND	3.18	22.68	81.65	136.08	PCC1896TR-ND	4,000	42.00/M	ECJ-3VF1C105Z	ECJ-3VF1C105Z
			1.5µF	+80%/-20%	0.85	PCC1897CT-ND	4.17	29.75	107.10	178.50	PCC1897TR-ND	4,000	155.00/M	ECJ-3VF1C155Z	(Not for new design)
			2.2µF	+80%/-20%	0.85	PCC1898CT-ND	3.18	22.68	81.65	136.08	PCC1898TR-ND	4,000	57.00/M	ECJ-3VF1C225Z	ECJ-3VF1C225Z
			4.7µF	+80%/-20%	1.15	PCC1900CT-ND	5.16	37.90	137.09	233.86	PCC1900TR-ND	2,000	185.00/M	ECJ-3YF1C475Z	ECJ-3YF1C475Z
		10	10µF	+80%/-20%	1.60	PCC1894CT-ND	4.91	36.79	130.82	237.10	PCC1894TR-ND	2,000	118.00/M	ECJ-3YF1A106Z	ECJ-3YF1A106Z
	F	50	1.0µF	+80%/-20%	1.15	PCC2234CT-ND	4.07	29.04	104.54	162.61	PCC2234TR-ND	3,000	75.00/M	ECJ-3FF1H105Z	ECJ-3FF1H105Z
		25	4.7µF	+80%/-20%	1.15	PCC2235CT-ND	6.51	47.83	173.02	274.79	PCC2235TR-ND	3,000	74.00/M	ECJ-3FF1E475Z	ECJ-3FF1E475Z
		16	10µF	+80%/-20%	1.60	PCC2300CT-ND	3.76	26.88	96.75	150.50	PCC2300TR-ND	2,000	123.00/M	ECJ-3YF1C106Z	ECJ-3YF1C106Z
		10	22µF	+80%/-20%	1.60	PCC2236CT-ND	8.73	65.46	232.76	386.96	PCC2236TR-ND	2,000	208.00/M	ECJ-3YF1A226Z	ECJ-3YF1A226Z
1210	X7R	100	0.22µF	±10%	2.00	PCC2304CT-ND	8.91	66.83	237.60	395.01	PCC2304TR-ND	2,000	336.00/M	ECJ-4YB2A224K	ECJ-4YB2A224K
			0.47µF	±10%	2.00	PCC2240CT-ND	7.84	57.56	208.21	330.68	PCC2240TR-ND	2,000	265.00/M	ECJ-4YB2A474K	ECJ-4YB2A474K
			0.68µF	±10%	2.50	PCC2305CT-ND	7.82	58.68	208.64	—	PCC2305TR-ND	1,000	295.00	ECJ-4YB2A684K	ECJ-4YB2A684K
			0.68µF	±20%	2.50	PCC2247CT-ND	8.14	61.07	217.12	—	PCC2247TR-ND	1,000	295.00	ECJ-4YB2A684M	ECJ-4YB2A684M
	X5R	50	1µF	±10%	2.00	PCC2303CT-ND	6.35	46.62	168.64	267.84	PCC2303TR-ND	2,000	219.00/M	ECJ-4YB1H105K	ECJ-4YB1H105K
		25	2.2µF	±10%	2.00	PCC2302CT-ND	6.53	47.99	173.57	275.67	PCC2302TR-ND	2,000	226.00/M	ECJ-4YB1E225K	ECJ-4YB1E225K
			4.7µF	±10%	2.00	PCC2251CT-ND	7.24	53.16	192.27	305.37	PCC2251TR-ND	2,000	260.00/M	ECJ-4YB1E475K	ECJ-4YB1E475K
			10µF	±20%	2.50	PCC2243CT-ND	13.69	102.69	365.12	—	PCC2243TR-ND	1,000	516.00	ECJ-4YB1E106M	ECJ-4YB1E106M
		16	4.7µF	±10%	2.00	PCC2168CT-ND	7.76	58.22	207.00	375.19	PCC2168TR-ND	2,000	236.00/M	ECJ-4YB1C475K	ECJ-4YB1C475K
			10µF	±10%	2.00	PCC2169CT-ND	7.06	52.92	188.16	341.04	PCC2169TR-ND	2,000	266.00/M	ECJ-4YB1C106K	ECJ-4YB1C106K
		10	10µF	±10%	2.00	PCC2170CT-ND	7.76	58.22	207.00	375.19	PCC2170TR-ND	2,000	293.00/M	ECJ-4YB1A106K	ECJ-4YB1A106K
			10µF	±20%	1.40	PCC2238CT-ND	8.35	62.62	222.64	370.14	PCC2238TR-ND	2,000	292.00/M	ECJ-8YB1A106M	ECJ-8YB1A106M
			22µF	±20%	2.50	PCC2228CT-ND	17.49	132.00	495.00	—	PCC2228TR-ND	1,000	729.00	ECJ-4YB1A226M	ECJ-4YB1A226M
		6.3	22µF	±20%	2.50	PCC2179CT-ND	26.19	196.39	698.28	—	PCC2179TR-ND	1,000	704.00	ECJ-4YB0J226M	ECJ-4YB0J226M
			47µF	±10%	2.50	PCC2301CT-ND	34.98	264.00	990.00	—	PCC2301TR-ND	1,000	1459.00	ECJ-4YB0J476M	ECJ-4YB0J476M
			100µF	±20%	2.50	PCC2267CT-ND	62.28	470.00	1762.50	—	PCC2267TR-ND	1,000	2597.00	ECJ-4YB0J107M	ECJ-4YB0J107M
	Y5V	25	10µF	+80%/-20%	1.60	PCC2171CT-ND	12.39	92.89	330.28	598.63	PCC2171TR-ND	2,000	246.00/M	ECJ-4YF1E106Z	ECJ-4YF1E106Z
		10	22µF	+80%/-20%	2.00	PCC2172CT-ND	11.90	89.27	317.40	575.29	PCC2172TR-ND	2,000	292.00/M	ECJ-4YF1A226Z	ECJ-4YF1A226Z
	F	6.3	47µF	+80%/-20%	2.00	PCC2237CT-ND	19.26	145.36	545.10	944.84	PCC2237TR-ND	2,000	718.00/M	ECJ-4YF0J476Z	ECJ-4YF0J476Z
		16	10µF	+80%/-20%	2.00	PCC2306CT-ND	6.72	49.33	178.42	283.37	PCC2306TR-ND	2,000	241.00/M	ECJ-4YF1C106Z	ECJ-4YF1C106Z
			22µF	+80%/-20%	2.00	PCC2307CT-ND	10.72	80.37	285.76	475.08	PCC2307TR-ND	2,000	404.00/M	ECJ-4YF1C226Z	ECJ-4YF1C226Z
		50	4.7µF	+80%/-20%	2.00	PCC2309CT-ND	7.58	56.81	202.00	335.83	PCC2309TR-ND	2,000	285.00/M	ECJ-4YF1H475Z	ECJ-4YF1H475Z
			10µF	+80%/-20%	2.00	PCC2308CT-ND	7.58	56.81	202.00	335.83	PCC2308TR-ND	2,000	285.00/M	ECJ-4YF1H106Z	ECJ-4YF1H106Z
1812	X7R	100	1.0µF	±20%	2.50	PCC2248CT-ND	15.42	116.38	—	—	PCC2248TR-ND	500	356.00	ECJ-5YB2A105M	ECJ-5YB2A105M
	X5R	25	10µF	±20%	2.50	PCC2180CT-ND	30.53	228.99	—	—	PCC2180TR-ND	500	426.50	ECJ-5YB1E106M	ECJ-5YB1E106M
		16	22µF	±20%	3.20	PCC2244CT-ND	35.99	271.63	—	—	PCC2244TR-ND	500	831.50	ECJ-5YB1C226M	ECJ-5YB1C226M
		6.3	47µF	±20%	3.20	PCC2245CT-ND	29.60	223.40	—	—	PCC2245TR-ND	500	712.00	ECJ-5YB0J476M	ECJ-5YB0J476M
	Y5V	35	10µF	+80%/-20%	2.50	PCC2183CT-ND	26.19	196.39	—	—	PCC2183TR-ND	500	493.50	ECJ-5YF1V106Z	ECJ-5YF1V106Z
		16	22µF	+80%/-20%	2.50	PCC2184CT-ND	26.19	196.39	—	—	PCC2184TR-ND	500	352.00	ECJ-5YF1C226Z	ECJ-5YF1C226Z
	F	6.3	100µF	+80%/-20%	3.20	PCC2246CT-ND	57.78	436.08	—	—	PCC2246TR-ND	500	961.50	ECJ-5YF0J107Z	ECJ-5YF0J107Z

Digi-Key® Notebook Style Kit Boxes

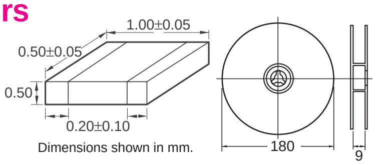
Notebook style kit box with velcro closure can be stored as a normal kit box, or vertically as a book. Each compartment is identified with an easy-to-read kit index.

- **PCC7-KIT-ND** ***0805/NP0 Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC9-KIT-ND** ***0603/NP0 Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC13-KIT-ND** ***0402/NP0 Series Kit*** 10 each of values denoted (280 total pieces) **$49.95**
- **PCC14-KIT-ND** ***0402/X7R Series Kit*** 10 each of values denoted (300 total pieces) **$45.95**
- **PCC15-KIT-ND** ***0603/X7R-X5R Series Kit*** 10 each of values denoted (300 total pieces)............. **$29.95**
- **PCC16-KIT-ND** ***0805/X7R Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC17-KIT-ND** ***1206/NP0 Series Kit*** 10 each of values denoted (140 total pieces) **$89.95**

Panasonic® High -Q- (Microwave) Multilayer Chip Capacitors 0402 High-Accuracy/High-Frequency

Features:
• Operating Temperature Range: -55°C to +125°C • Low Cap. with Tight Tolerance • High Q value / Low ESR at High Freq. • Ultra-Stable C0G Performance (0±30 ppm/°C) • 0402 Miniature Size

Applications (At Microwave Freq.): • Impedance Matching Circuit • Resonant Circuit • Coupling Circuit
Application Examples: • RF modules, VCO, BPF, DUP, PA, etc. • Cellular Phone, Bluetooth, Wireless LAN, etc.



Dimensions shown in mm.

						Cut Tape Price Each					Tape & Reel	
Size Code	Type	WV DC	Cap.	Tolerance	Digi-Key Part No.	10	100	500	1,000	Digi-Key Part No.	Pricing 10,000	Panasonic Part No.
0402	C0G	25	.10pF	±0.05pF	PCC2190CT-ND	.65	.46	.32	.25	PCC2190TR-ND	168.00/M	ECD-G0ER108
			.20pF	±0.05pF	PCC2192CT-ND	.65	.46	.32	.25	PCC2192TR-ND	168.00/M	ECD-G0ER208
			.30pF	±0.05pF	PCC2194CT-ND	.65	.46	.32	.25	PCC2194TR-ND	168.00/M	ECD-G0ER308
			.35pF	±0.05pF	PCC2195CT-ND	.65	.46	.32	.25	PCC2195TR-ND	206.00/M	ECD-G0ER358
			.40pF	±0.05pF	PCC2196CT-ND	.65	.46	.32	.25	PCC2196TR-ND	168.00/M	ECD-G0ER408
			.50pF	±0.05pF	PCC2198CT-ND	.65	.46	.32	.25	PCC2198TR-ND	168.00/M	ECD-G0ER508
			.55pF	±0.075pF	PCC2199CT-ND	.65	.46	.32	.25	PCC2199TR-ND	206.00/M	ECD-G0ER559
			.60pF	±0.075pF	PCC2200CT-ND	.65	.46	.32	.25	PCC2200TR-ND	168.00/M	ECD-G0ER609
			.70pF	±0.075pF	PCC2202CT-ND	.65	.46	.32	.25	PCC2202TR-ND	168.00/M	ECD-G0ER709
			.80pF	±0.075pF	PCC2204CT-ND	.65	.46	.32	.25	PCC2204TR-ND	168.00/M	ECD-G0ER809
			.90pF	±0.075pF	PCC2206CT-ND	.65	.46	.32	.25	PCC2206TR-ND	168.00/M	ECD-G0ER909
			1.0pF	±0.10pF	PCC2252CT-ND	.62	.44	.30	.24	PCC2252TR-ND	168.00/M	ECD-G0E1R0B
			1.1pF	±0.10pF	PCC2209CT-ND	.65	.46	.32	.25	PCC2209TR-ND	168.00/M	ECD-G0E1R1B
			1.2pF	±0.10pF	PCC2210CT-ND	.65	.46	.32	.25	PCC2210TR-ND	168.00/M	ECD-G0E1R2B
			1.3pF	±0.10pF	PCC2211CT-ND	.65	.46	.32	.25	PCC2211TR-ND	168.00/M	ECD-G0E1R3B
			1.5pF	±0.10pF	PCC2213CT-ND	.65	.46	.32	.25	PCC2213TR-ND	168.00/M	ECD-G0E1R5B
			1.6pF	±0.10pF	PCC2214CT-ND	.65	.46	.32	.25	PCC2214TR-ND	168.00/M	ECD-G0E1R6B
			1.8pF	±0.10pF	PCC2216CT-ND	.65	.46	.32	.25	PCC2216TR-ND	168.00/M	ECD-G0E1R8B
			2.0pF	±0.10pF	PCC2218CT-ND	.65	.46	.32	.25	PCC2218TR-ND	168.00/M	ECD-G0E2R0B
			2.2pF	±0.10pF	PCC2253CT-ND	.62	.44	.30	.24	PCC2253TR-ND	168.00/M	ECD-G0E2R2B
			2.4pF	±0.10pF	PCC2254CT-ND	.62	.44	.30	.24	PCC2254TR-ND	168.00/M	ECD-G0E2R4B
			2.7pF	±0.10pF	PCC2255CT-ND	.62	.44	.30	.24	PCC2255TR-ND	168.00/M	ECD-G0E2R7B
			3.0pF	±0.10pF	PCC2256CT-ND	.62	.44	.30	.24	PCC2256TR-ND	168.00/M	ECD-G0E3R0B
			3.3pF	±0.25pF	PCC2258CT-ND	.50	.37	.27	.22	PCC2258TR-ND	166.00/M	ECD-G0E3R3C
			3.9pF	±0.25pF	PCC2259CT-ND	.50	.37	.27	.22	PCC2259TR-ND	166.00/M	ECD-G0E3R9C
			4.7pF	±0.25pF	PCC2260CT-ND	.50	.37	.27	.22	PCC2260TR-ND	166.00/M	ECD-G0E4R7C
			5.6pF	±0.25pF	PCC2261CT-ND	.50	.37	.27	.22	PCC2261TR-ND	166.00/M	ECD-G0E5R6C
			6.8pF	±0.25pF	PCC2262CT-ND	.50	.37	.27	.22	PCC2262TR-ND	166.00/M	ECD-G0E6R8C
			8.2pF	±0.25pF	PCC2263CT-ND	.50	.37	.27	.22	PCC2263TR-ND	166.00/M	ECD-G0E8R2C
			10.0pF	±0.25pF	PCC2264CT-ND	.50	.37	.27	.22	PCC2264TR-ND	166.00/M	ECD-G0E100C
			12pF	±5%	PCC2265CT-ND	.50	.37	.27	.22	PCC2265TR-ND	166.00/M	ECD-G0E120J
			15pF	±5%	PCC2266CT-ND	.50	.37	.27	.22	PCC2266TR-ND	166.00/M	ECD-G0E150J

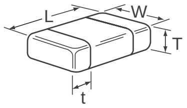
NEW! AVX Multilayer Ceramic Chip Capacitors

C0G (NP0) Dielectric:
• EIA Class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available • Capacitance change with temperature is 0 ±30ppm/°C which is less than ±0.3% Δ C from -55°C to 125°C • Operating temperature range: -55°C to 125°C

X7R Dielectric:
• X7R formulations are called "temperature stable" ceramics and fall into EIA Class II materials • Its temperature variation of capacitance is within ±15% from -55°C to 125°C • Operating temperature range: -55°C to 125°C

X5R Dielectric:
• General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C to 85°C • Operating temperature range: -55°C to 85°C

Y5V Dielectric:
• Y5V formulations are for general purpose use in a limited temperature range • They have a wide temperature characteristic of +22%-82% capacitance change over the operating temperature range of -30°C to 85C



Size Code	L	W	t
0201	0.60±0.03	0.30±0.03	0.15±0.05
0402	1.00±0.10	0.50±0.10	0.25±0.15
0603	1.60±0.15	0.81±0.15	0.35±0.15
0805	2.01±0.20	1.25±0.20	0.50±0.25
1206	3.20±0.20	1.60±0.20	0.50±0.25
1210	3.20±0.20	2.50±0.20	0.50±0.25
1812	4.50±0.30	3.20±0.20	0.61±0.36

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
0201	C0G (NP0)	25V	.5pF	±.25pF	0.33	478-1000-1-ND	4.95	29.25	84.38	478-1000-2-ND	15,000	81.00/M	02013A0R5CAT2A
			1.0pF	±.25pF	0.33	478-1001-1-ND	4.95	29.25	84.38	478-1001-2-ND	15,000	81.00/M	02013A1R0CAT2A
			1.2pF	±.25pF	0.33	478-1002-1-ND	4.95	29.25	84.38	478-1002-2-ND	15,000	81.00/M	02013A1R2CAT2A
			1.5pF	±.25pF	0.33	478-1003-1-ND	4.95	29.25	84.38	478-1003-2-ND	15,000	81.00/M	02013A1R5CAT2A
			1.8pF	±.25pF	0.33	478-1004-1-ND	4.95	29.25	84.38	478-1004-2-ND	15,000	81.00/M	02013A1R8CAT2A
			2.2pF	±.25pF	0.33	478-1005-1-ND	4.95	29.25	84.38	478-1005-2-ND	15,000	81.00/M	02013A2R2CAT2A
			2.7pF	±.25pF	0.33	478-1006-1-ND	4.95	29.25	84.38	478-1006-2-ND	15,000	81.00/M	02013A2R7CAT2A
			3.3pF	±.25pF	0.33	478-1007-1-ND	4.95	29.25	84.38	478-1007-2-ND	15,000	81.00/M	02013A3R3CAT2A
			3.9pF	±.25pF	0.33	478-1008-1-ND	4.95	29.25	84.38	478-1008-2-ND	15,000	81.00/M	02013A3R9CAT2A
			4.7pF	±.25pF	0.33	478-1009-1-ND	4.95	29.25	84.38	478-1009-2-ND	15,000	81.00/M	02013A4R7CAT2A
			5.6pF	±.25pF	0.33	478-1010-1-ND	4.95	29.25	84.38	478-1010-2-ND	15,000	81.00/M	02013A5R6CAT2A
			6.8pF	±.25pF	0.33	478-1011-1-ND	4.95	29.25	84.38	478-1011-2-ND	15,000	81.00/M	02013A6R8CAT2A
			8.2pF	±.25pF	0.33	478-1012-1-ND	4.95	29.25	84.38	478-1012-2-ND	15,000	81.00/M	02013A8R2CAT2A
			9.0pF	±.25pF	0.33	478-1013-1-ND	4.95	29.25	84.38	478-1013-2-ND	15,000	81.00/M	02013A9R0CAT2A
			10pF	±5%	0.33	478-1014-1-ND	4.95	29.25	84.38	478-1014-2-ND	15,000	81.00/M	02013A100JAT2A
			12pF	±5%	0.33	478-1015-1-ND	4.95	29.25	84.38	478-1015-2-ND	15,000	81.00/M	02013A120JAT2A
			15pF	±5%	0.33	478-1016-1-ND	4.95	29.25	84.38	478-1016-2-ND	15,000	81.00/M	02013A150JAT2A
			18pF	±5%	0.33	478-1017-1-ND	4.95	29.25	84.38	478-1017-2-ND	15,000	81.00/M	02013A180JAT2A
			22pF	±5%	0.33	478-1018-1-ND	4.95	29.25	84.38	478-1018-2-ND	15,000	81.00/M	02013A220JAT2A
			27pF	±5%	0.33	478-1019-1-ND	4.95	29.25	84.38	478-1019-2-ND	15,000	81.00/M	02013A270JAT2A
			33pF	±5%	0.33	478-1020-1-ND	4.95	29.25	84.38	478-1020-2-ND	15,000	81.00/M	02013A330JAT2A
		16V	39pF	±5%	0.33	478-1021-1-ND	5.28	31.20	90.00	478-1021-2-ND	15,000	86.00/M	0201YA390JAT2A
			47pF	±5%	0.33	478-1022-1-ND	5.28	31.20	90.00	478-1022-2-ND	15,000	86.00/M	0201YA470JAT2A
			56pF	±5%	0.33	478-1023-1-ND	5.28	31.20	90.00	478-1023-2-ND	15,000	86.00/M	0201YA560JAT2A
			68pF	±5%	0.33	478-1024-1-ND	5.28	31.20	90.00	478-1024-2-ND	15,000	86.00/M	0201YA680JAT2A
		10V	82pF	±5%	0.33	478-1025-1-ND	5.50	32.50	93.75	478-1025-2-ND	15,000	90.00/M	0201ZA820JAT2A
			100pF	±5%	0.33	478-1026-1-ND	5.50	32.50	93.75	478-1026-2-ND	15,000	90.00/M	0201ZA101JAT2A
	X7R	16V	100pF	±10%	0.33	478-1027-1-ND	4.95	29.25	84.38	478-1027-2-ND	15,000	81.00/M	0201YC101KAT2A
			120pF	±10%	0.33	478-1028-1-ND	4.95	29.25	84.38	478-1028-2-ND	15,000	81.00/M	0201YC121KAT2A
			150pF	±10%	0.33	478-1029-1-ND	4.95	29.25	84.38	478-1029-2-ND	15,000	81.00/M	0201YC151KAT2A
			180pF	±10%	0.33	478-1030-1-ND	4.95	29.25	84.38	478-1030-2-ND	15,000	81.00/M	0201YC181KAT2A
			220pF	±10%	0.33	478-1031-1-ND	4.95	29.25	84.38	478-1031-2-ND	15,000	81.00/M	0201YC221KAT2A
			270pF	±10%	0.33	478-1032-1-ND	4.95	29.25	84.38	478-1032-2-ND	15,000	81.00/M	0201YC271KAT2A
			330pF	±10%	0.33	478-1033-1-ND	4.95	29.25	84.38	478-1033-2-ND	15,000	81.00/M	0201YC331KAT2A
			390pF	±10%	0.33	478-1034-1-ND	4.95	29.25	84.38	478-1034-2-ND	15,000	81.00/M	0201YC391KAT2A
			470pF	±10%	0.33	478-1035-1-ND	4.95	29.25	84.38	478-1035-2-ND	15,000	81.00/M	0201YC471KAT2A
			560pF	±10%	0.33	478-1036-1-ND	5.28	31.20	90.00	478-1036-2-ND	15,000	86.00/M	0201YC561KAT2A
			680pF	±10%	0.33	478-1037-1-ND	5.28	31.20	90.00	478-1037-2-ND	15,000	86.00/M	0201YC681KAT2A
			820pF	±10%	0.33	478-1038-1-ND	5.28	31.20	90.00	478-1038-2-ND	15,000	86.00/M	0201YC821KAT2A
			1000pF	±10%	0.33	478-1039-1-ND	5.50	32.50	93.75	478-1039-2-ND	15,000	90.00/M	0201YC102KAT2A
	X5R	10V	1200pF	±10%	0.33	478-1040-1-ND	6.05	35.75	103.13	478-1040-2-ND	15,000	99.00/M	0201ZD122KAT2A
			1500pF	±10%	0.33	478-1041-1-ND	6.05	35.75	103.13	478-1041-2-ND	15,000	99.00/M	0201ZD152KAT2A
			1800pF	±10%	0.33	478-1042-1-ND	6.05	35.75	103.13	478-1042-2-ND	15,000	99.00/M	0201ZD182KAT2A
			2200pF	±10%	0.33	478-1043-1-ND	6.60	39.00	112.50	478-1043-2-ND	15,000	108.00/M	0201ZD222KAT2A
			2700pF	±10%	0.33	478-1044-1-ND	6.60	39.00	112.50	478-1044-2-ND	15,000	108.00/M	0201ZD272KAT2A
			3300pF	±10%	0.33	478-1045-1-ND	6.60	39.00	112.50	478-1045-2-ND	15,000	108.00/M	0201ZD332KAT2A
			3900pF	±10%	0.33	478-1046-1-ND	6.60	39.00	112.50	478-1046-2-ND	15,000	108.00/M	0201ZD392KAT2A
			4700pF	±10%	0.33	478-1047-1-ND	7.15	42.25	121.88	478-1047-2-ND	15,000	117.00/M	0201ZD472KAT2A
			5600pF	±10%	0.33	478-1048-1-ND	7.15	42.25	121.88	478-1048-2-ND	15,000	117.00/M	0201ZD562KAT2A
			6800pF	±10%	0.33	478-1049-1-ND	7.15	42.25	121.88	478-1049-2-ND	15,000	117.00/M	0201ZD682KAT2A
			8200pF	±10%	0.33	478-1050-1-ND	7.70	45.50	131.25	478-1050-2-ND	15,000	126.00/M	0201ZD822KAT2A
			.01µF	±10%	0.33	478-1051-1-ND	8.80	52.00	150.00	478-1051-2-ND	15,000	144.00/M	0201ZD103KAT2A
	Y5V	10V	.01µF	+80 -20%	0.33	478-1052-1-ND	8.25	48.75	140.63	478-1052-2-ND	15,000	135.00/M	0201ZG103ZAT2A
		6.3V	.015µF	+80 -20%	0.33	478-1053-1-ND	8.25	48.75	140.63	478-1053-2-ND	15,000	135.00/M	02016G153ZAT2A
			.022µF	+80 -20%	0.33	478-1054-1-ND	8.25	48.75	140.63	478-1054-2-ND	15,000	135.00/M	02016G223ZAT2A
			.033µF	+80 -20%	0.33	478-1055-1-ND	8.25	48.75	140.63	478-1055-2-ND	15,000	135.00/M	02016G333ZAT2A
			.047µF	+80 -20%	0.33	478-1056-1-ND	8.25	48.75	140.63	478-1056-2-ND	15,000	135.00/M	02016G473ZAT2A
0402	C0G (NP0)	50V	.5pF	±.25pF	0.56	478-1057-1-ND	3.30	19.50	56.25	478-1057-2-ND	10,000	54.00/M	04025A0R5CAT2A
			1.0pF	±.25pF	0.56	478-1058-1-ND	3.30	19.50	56.25	478-1058-2-ND	10,000	54.00/M	04025A1R0CAT2A
			1.2pF	±.25pF	0.56	478-1059-1-ND	3.30	19.50	56.25	478-1059-2-ND	10,000	54.00/M	04025A1R2CAT2A
			1.5pF	±.25pF	0.56	478-1060-1-ND	3.30	19.50	56.25	478-1060-2-ND	10,000	54.00/M	04025A1R5CAT2A
			1.8pF	±.25pF	0.56	478-1061-1-ND	3.30	19.50	56.25	478-1061-2-ND	10,000	54.00/M	04025A1R8CAT2A
			2.2pF	±.25pF	0.56	478-1062-1-ND	3.30	19.50	56.25	478-1062-2-ND	10,000	54.00/M	04025A2R2CAT2A
			2.7pF	±.25pF	0.56	478-1063-1-ND	3.30	19.50	56.25	478-1063-2-ND	10,000	54.00/M	04025A2R7CAT2A
			3.3pF	±.25pF	0.56	478-1064-1-ND	3.30	19.50	56.25	478-1064-2-ND	10,000	54.00/M	04025A3R3CAT2A
			3.9pF	±.25pF	0.56	478-1065-1-ND	3.30	19.50	56.25	478-1065-2-ND	10,000	54.00/M	04025A3R9CAT2A
			4.7pF	±.25pF	0.56	478-1066-1-ND	3.30	19.50	56.25	478-1066-2-ND	10,000	54.00/M	04025A4R7CAT2A
			5.6pF	±.25pF	0.56	478-1067-1-ND	3.30	19.50	56.25	478-1067-2-ND	10,000	54.00/M	04025A5R6CAT2A
			6.8pF	±.25pF	0.56	478-1068-1-ND	3.30	19.50	56.25	478-1068-2-ND	10,000	54.00/M	04025A6R8CAT2A
			8.2pF	±.25pF	0.56	478-1069-1-ND	3.30	19.50	56.25	478-1069-2-ND	10,000	54.00/M	04025A8R2CAT2A
			10pF	±5%	0.56	478-1070-1-ND	2.75	16.25	46.88	478-1070-2-ND	10,000	45.00/M	04025A100JAT2A
			12pF	±5%	0.56	478-1071-1-ND	3.30	19.50	56.25	478-1071-2-ND	10,000	54.00/M	04025A120JAT2A
			15pF	±5%	0.56	478-1072-1-ND	3.30	19.50	56.25	478-1072-2-ND	10,000	54.00/M	04025A150JAT2A
			18pF	±5%	0.56	478-1073-1-ND	3.30	19.50	56.25	478-1073-2-ND	10,000	54.00/M	04025A180JAT2A
			22pF	±5%	0.56	478-1074-1-ND	2.75	16.25	46.88	478-1074-2-ND	10,000	45.00/M	04025A220JAT2A
			27pF	±5%	0.56	478-1075-1-ND	3.30	19.50	56.25	478-1075-2-ND	10,000	54.00/M	04025A270JAT2A
			33pF	±5%	0.56	478-1076-1-ND	2.75	16.25	46.88	478-1076-2-ND	10,000	45.00/M	04025A330JAT2A
			39pF	±5%	0.56	478-1077-1-ND	3.30	19.50	56.25	478-1077-2-ND	10,000	54.00/M	04025A390JAT2A
			47pF	±5%	0.56	478-1078-1-ND	2.75	16.25	46.88	478-1078-2-ND	10,000	45.00/M	04025A470JAT2A
			56pF	±5%	0.56	478-1079-1-ND	3.30	19.50	56.25	478-1079-2-ND	10,000	54.00/M	04025A560JAT2A
			68pF	±5%	0.56	478-1080-1-ND	3.30	19.50	56.25	478-1080-2-ND	10,000	54.00/M	04025A680JAT2A

(Continued)

NEW! AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
0402	C0G (NP0)	50V	82pF	±5%	0.56	478-1081-1-ND	3.30	19.50	56.25	478-1081-2-ND	10,000	54.00/M	04025A820JAT2A
			100pF	±5%	0.56	478-1082-1-ND	2.75	16.25	46.88	478-1082-2-ND	10,000	45.00/M	04025A101JAT2A
			120pF	±5%	0.56	478-1083-1-ND	5.50	32.50	93.75	478-1083-2-ND	10,000	90.00/M	04025A121JAT2A
			150pF	±5%	0.56	478-1084-1-ND	5.50	32.50	93.75	478-1084-2-ND	10,000	90.00/M	04025A151JAT2A
			180pF	±5%	0.56	478-1085-1-ND	6.05	35.75	103.13	478-1085-2-ND	10,000	99.00/M	04025A181JAT2A
			220pF	±5%	0.56	478-1086-1-ND	6.05	35.75	103.13	478-1086-2-ND	10,000	99.00/M	04025A221JAT2A
		25V	270pF	±5%	0.56	478-1087-1-ND	6.60	39.00	112.50	478-1087-2-ND	10,000	108.00/M	04023A271JAT2A
			330pF	±5%	0.56	478-1088-1-ND	6.60	39.00	112.50	478-1088-2-ND	10,000	108.00/M	04023A331JAT2A
	X7R	50V	100pF	±10%	0.56	478-1089-1-ND	3.30	19.50	56.25	478-1089-2-ND	10,000	54.00/M	04025C101KAT2A
			120pF	±10%	0.56	478-1090-1-ND	3.30	19.50	56.25	478-1090-2-ND	10,000	54.00/M	04025C121KAT2A
			150pF	±10%	0.56	478-1091-1-ND	3.30	19.50	56.25	478-1091-2-ND	10,000	54.00/M	04025C151KAT2A
			180pF	±10%	0.56	478-1092-1-ND	3.30	19.50	56.25	478-1092-2-ND	10,000	54.00/M	04025C181KAT2A
			220pF	±10%	0.56	478-1093-1-ND	3.30	19.50	56.25	478-1093-2-ND	10,000	54.00/M	04025C221KAT2A
			270pF	±10%	0.56	478-1094-1-ND	3.30	19.50	56.25	478-1094-2-ND	10,000	54.00/M	04025C271KAT2A
			330pF	±10%	0.56	478-1095-1-ND	3.30	19.50	56.25	478-1095-2-ND	10,000	54.00/M	04025C331KAT2A
			390pF	±10%	0.56	478-1096-1-ND	3.30	19.50	56.25	478-1096-2-ND	10,000	54.00/M	04025C391KAT2A
			470pF	±10%	0.56	478-1097-1-ND	3.30	19.50	56.25	478-1097-2-ND	10,000	54.00/M	04025C471KAT2A
			560pF	±10%	0.56	478-1098-1-ND	3.30	19.50	56.25	478-1098-2-ND	10,000	54.00/M	04025C561KAT2A
			680pF	±10%	0.56	478-1099-1-ND	3.30	19.50	56.25	478-1099-2-ND	10,000	54.00/M	04025C681KAT2A
			820pF	±10%	0.56	478-1100-1-ND	3.30	19.50	56.25	478-1100-2-ND	10,000	54.00/M	04025C821KAT2A
			1000pF	±10%	0.56	478-1101-1-ND	2.75	16.25	46.88	478-1101-2-ND	10,000	45.00/M	04025C102KAT2A
			1200pF	±10%	0.56	478-1102-1-ND	3.30	19.50	56.25	478-1102-2-ND	10,000	54.00/M	04025C122KAT2A
			1500pF	±10%	0.56	478-1103-1-ND	3.30	19.50	56.25	478-1103-2-ND	10,000	54.00/M	04025C152KAT2A
			1800pF	±10%	0.56	478-1104-1-ND	3.30	19.50	56.25	478-1104-2-ND	10,000	54.00/M	04025C182KAT2A
			2200pF	±10%	0.56	478-1105-1-ND	2.75	16.25	46.88	478-1105-2-ND	10,000	45.00/M	04025C222KAT2A
			2700pF	±10%	0.56	478-1106-1-ND	3.30	19.50	56.25	478-1106-2-ND	10,000	54.00/M	04025C272KAT2A
			3300pF	±10%	0.56	478-1107-1-ND	2.75	16.25	46.88	478-1107-2-ND	10,000	45.00/M	04025C332KAT2A
			3900pF	±10%	0.56	478-1108-1-ND	3.30	19.50	56.25	478-1108-2-ND	10,000	54.00/M	04025C392KAT2A
			4700pF	±10%	0.56	478-1109-1-ND	2.75	16.25	46.88	478-1109-2-ND	10,000	45.00/M	04025C472KAT2A
			5600pF	±10%	0.56	478-1110-1-ND	3.30	19.50	56.25	478-1110-2-ND	10,000	54.00/M	04025C562KAT2A
			6800pF	±10%	0.56	478-1111-1-ND	3.30	19.50	56.25	478-1111-2-ND	10,000	54.00/M	04025C682KAT2A
			8200pF	±10%	0.56	478-1112-1-ND	3.30	19.50	56.25	478-1112-2-ND	10,000	54.00/M	04025C822KAT2A
		25V	.01µF	±10%	0.56	478-1113-1-ND	3.85	22.75	65.63	478-1113-2-ND	10,000	63.00/M	04023C103KAT2A
		16V	.01µF	±10%	0.56	478-1114-1-ND	2.75	16.25	46.88	478-1114-2-ND	10,000	45.00/M	0402YC103KAT2A
			.012µF	±10%	0.56	478-1115-1-ND	3.85	22.75	65.63	478-1115-2-ND	10,000	63.00/M	0402YC123KAT2A
			.015µF	±10%	0.56	478-1116-1-ND	3.85	22.75	65.63	478-1116-2-ND	10,000	63.00/M	0402YC153KAT2A
			.018µF	±10%	0.56	478-1117-1-ND	3.85	22.75	65.63	478-1117-2-ND	10,000	63.00/M	0402YC183KAT2A
			.022µF	±10%	0.56	478-1118-1-ND	4.18	24.70	71.25	478-1118-2-ND	10,000	68.00/M	0402YC223KAT2A
		10V	.027µF	±10%	0.56	478-1119-1-ND	4.18	24.70	71.25	478-1119-2-ND	10,000	68.00/M	0402ZC273KAT2A
			.033µF	±10%	0.56	478-1120-1-ND	4.40	26.00	75.00	478-1120-2-ND	10,000	72.00/M	0402ZC333KAT2A
			.039µF	±10%	0.56	478-1121-1-ND	4.40	26.00	75.00	478-1121-2-ND	10,000	72.00/M	0402ZC393KAT2A
	X5R	16V	.027µF	±10%	0.56	478-1122-1-ND	4.95	29.25	84.38	478-1122-2-ND	10,000	81.00/M	0402YD273KAT2A
			.033µF	±10%	0.56	478-1123-1-ND	4.40	26.00	75.00	478-1123-2-ND	10,000	72.00/M	0402YD333KAT2A
			.039µF	±10%	0.56	478-1124-1-ND	5.50	32.50	93.75	478-1124-2-ND	10,000	90.00/M	0402YD393KAT2A
			.047µF	±10%	0.56	478-1125-1-ND	4.95	29.25	84.38	478-1125-2-ND	10,000	81.00/M	0402YD473KAT2A
			.10µF	±10%	0.56	478-1126-1-ND	6.05	35.75	103.13	478-1126-2-ND	10,000	99.00/M	0402YD104KAT2A
		10V	.056µF	±10%	0.56	478-1127-1-ND	6.60	39.00	112.50	478-1127-2-ND	10,000	108.00/M	0402ZD563KAT2A
			.068µF	±10%	0.56	478-1128-1-ND	6.05	35.75	103.13	478-1128-2-ND	10,000	99.00/M	0402ZD683KAT2A
			.10µF	±10%	0.56	478-1129-1-ND	4.95	29.25	84.38	478-1129-2-ND	10,000	81.00/M	0402ZD104KAT2A
		6.3V	.15µF	±10%	0.56	478-1130-1-ND	6.60	39.00	112.50	478-1130-2-ND	10,000	108.00/M	04026D154KAT2A
			.18µF	±10%	0.56	478-1131-1-ND	7.70	45.50	131.25	478-1131-2-ND	10,000	126.00/M	04026D184KAT2A
			.22µF	±10%	0.56	478-1132-1-ND	8.80	52.00	150.00	478-1132-2-ND	10,000	144.00/M	04026D224KAT2A
	Y5V	50V	.01µF	+80 -20%	0.56	478-1133-1-ND	4.95	29.25	84.38	478-1133-2-ND	10,000	81.00/M	04025G103ZAT2A
			.022µF	+80 -20%	0.56	478-1134-1-ND	4.95	29.25	84.38	478-1134-2-ND	10,000	81.00/M	04025G223ZAT2A
			.033µF	+80 -20%	0.56	478-1135-1-ND	4.95	29.25	84.38	478-1135-2-ND	10,000	81.00/M	04025G333ZAT2A
		16V	.047µF	+80 -20%	0.56	478-1136-1-ND	4.95	29.25	84.38	478-1136-2-ND	10,000	81.00/M	0402YG473ZAT2A
			.068µF	+80 -20%	0.56	478-1137-1-ND	4.95	29.25	84.38	478-1137-2-ND	10,000	81.00/M	0402YG683ZAT2A
			.10µF	+80 -20%	0.56	478-1138-1-ND	3.85	22.75	65.63	478-1138-2-ND	10,000	63.00/M	0402YG104ZAT2A
		10V	.22µF	+80 -20%	0.56	478-1139-1-ND	5.50	32.50	93.75	478-1139-2-ND	10,000	90.00/M	0402ZG224ZAT2A
0603	C0G (NP0)	100V	10pF	±5%	0.86	478-1140-1-ND	3.85	22.75	65.63	478-1140-2-ND	4,000	63.00/M	06031A100JAT2A
			15pF	±5%	0.86	478-1141-1-ND	3.85	22.75	65.63	478-1141-2-ND	4,000	63.00/M	06031A150JAT2A
			22pF	±5%	0.86	478-1142-1-ND	3.85	22.75	65.63	478-1142-2-ND	4,000	63.00/M	06031A220JAT2A
			33pF	±5%	0.86	478-1143-1-ND	3.85	22.75	65.63	478-1143-2-ND	4,000	63.00/M	06031A330JAT2A
			47pF	±5%	0.86	478-1144-1-ND	3.85	22.75	65.63	478-1144-2-ND	4,000	63.00/M	06031A470JAT2A
			68pF	±5%	0.86	478-1145-1-ND	3.85	22.75	65.63	478-1145-2-ND	4,000	63.00/M	06031A680JAT2A
			100pF	±5%	0.86	478-1146-1-ND	3.85	22.75	65.63	478-1146-2-ND	4,000	63.00/M	06031A101JAT2A
			150pF	±5%	0.86	478-1147-1-ND	4.95	29.25	84.38	478-1147-2-ND	4,000	81.00/M	06031A151JAT2A
			220pF	±5%	0.86	478-1148-1-ND	4.95	29.25	84.38	478-1148-2-ND	4,000	81.00/M	06031A221JAT2A
			330pF	±5%	0.86	478-1149-1-ND	5.50	32.50	93.75	478-1149-2-ND	4,000	90.00/M	06031A331JAT2A
		50V	.5pF	±.25pF	0.86	478-1150-1-ND	2.09	12.35	35.63	478-1150-2-ND	4,000	34.00/M	06035A0R5CAT2A
			1pF	±.25pF	0.86	478-1151-1-ND	2.09	12.35	35.63	478-1151-2-ND	4,000	34.00/M	06035A1R0CAT2A
			1.2pF	±.25pF	0.86	478-1152-1-ND	2.09	12.35	35.63	478-1152-2-ND	4,000	34.00/M	06035A1R2CAT2A
			1.5pF	±.25pF	0.86	478-1153-1-ND	2.09	12.35	35.63	478-1153-2-ND	4,000	34.00/M	06035A1R5CAT2A
			1.8pF	±.25pF	0.86	478-1154-1-ND	2.09	12.35	35.63	478-1154-2-ND	4,000	34.00/M	06035A1R8CAT2A
			2.2pF	±.25pF	0.86	478-1155-1-ND	2.09	12.35	35.63	478-1155-2-ND	4,000	34.00/M	06035A2R2CAT2A
			2.7pF	±.25pF	0.86	478-1156-1-ND	2.09	12.35	35.63	478-1156-2-ND	4,000	34.00/M	06035A2R7CAT2A
			3.3pF	±.25pF	0.86	478-1157-1-ND	2.09	12.35	35.63	478-1157-2-ND	4,000	34.00/M	06035A3R3CAT2A
			3.9pF	±.25pF	0.86	478-1158-1-ND	2.09	12.35	35.63	478-1158-2-ND	4,000	34.00/M	06035A3R9CAT2A
			4.7pF	±.25pF	0.86	478-1159-1-ND	2.09	12.35	35.63	478-1159-2-ND	4,000	34.00/M	06035A4R7CAT2A
			5.6pF	±.25pF	0.86	478-1160-1-ND	2.09	12.35	35.63	478-1160-2-ND	4,000	34.00/M	06035A5R6CAT2A
			6.8pF	±.25pF	0.86	478-1161-1-ND	2.09	12.35	35.63	478-1161-2-ND	4,000	34.00/M	06035A6R8CAT2A
			8.2pF	±.25pF	0.86	478-1162-1-ND	2.09	12.35	35.63	478-1162-2-ND	4,000	34.00/M	06035A8R2CAT2A
			10pF	±5%	0.86	478-1163-1-ND	1.87	11.05	31.88	478-1163-2-ND	4,000	31.00/M	06035A100JAT2A
			12pF	±5%	0.86	478-1164-1-ND	2.09	12.35	35.63	478-1164-2-ND	4,000	34.00/M	06035A120JAT2A
			15pF	±5%	0.86	478-1165-1-ND	1.87	11.05	31.88	478-1165-2-ND	4,000	31.00/M	06035A150JAT2A
			18pF	±5%	0.86	478-1166-1-ND	2.09	12.35	35.63	478-1166-2-ND	4,000	34.00/M	06035A180JAT2A
			22pF	±5%	0.86	478-1167-1-ND	1.87	11.05	31.88	478-1167-2-ND	4,000	31.00/M	06035A220JAT2A
			27pF	±5%	0.86	478-1168-1-ND	2.09	12.35	35.63	478-1168-2-ND	4,000	34.00/M	06035A270JAT2A
			33pF	±5%	0.86	478-1169-1-ND	1.87	11.05	31.88	478-1169-2-ND	4,000	31.00/M	06035A330JAT2A
			39pF	±5%	0.86	478-1170-1-ND	2.09	12.35	35.63	478-1170-2-ND	4,000	34.00/M	06035A390JAT2A
			47pF	±5%	0.86	478-1171-1-ND	1.87	11.05	31.88	478-1171-2-ND	4,000	31.00/M	06035A470JAT2A
			56pF	±5%	0.86	478-1172-1-ND	2.09	12.35	35.63	478-1172-2-ND	4,000	34.00/M	06035A560JAT2A
			68pF	±5%	0.86	478-1173-1-ND	1.87	11.05	31.88	478-1173-2-ND	4,000	31.00/M	06035A680JAT2A
			82pF	±5%	0.86	478-1174-1-ND	2.09	12.35	35.63	478-1174-2-ND	4,000	34.00/M	06035A820JAT2A

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NEW! AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
0603	C0G (NP0)	50V	100pF	±5%	0.86	478-1175-1-ND	1.65	9.75	28.13	478-1175-2-ND	4,000	27.00/M	06035A101JAT2A
			120pF	±5%	0.86	478-1176-1-ND	2.31	13.65	39.38	478-1176-2-ND	4,000	38.00/M	06035A121JAT2A
			150pF	±5%	0.86	478-1177-1-ND	2.20	13.00	37.50	478-1177-2-ND	4,000	36.00/M	06035A151JAT2A
			180pF	±5%	0.86	478-1178-1-ND	2.31	13.65	39.38	478-1178-2-ND	4,000	38.00/M	06035A181JAT2A
			220pF	±5%	0.86	478-1179-1-ND	2.20	13.00	37.50	478-1179-2-ND	4,000	36.00/M	06035A221JAT2A
			270pF	±5%	0.86	478-1180-1-ND	3.30	19.50	56.25	478-1180-2-ND	4,000	54.00/M	06035A271JAT2A
			330pF	±5%	0.86	478-1181-1-ND	3.08	18.20	52.50	478-1181-2-ND	4,000	50.00/M	06035A331JAT2A
			390pF	±5%	0.86	478-1182-1-ND	3.96	23.40	67.50	478-1182-2-ND	4,000	65.00/M	06035A391JAT2A
			470pF	±5%	0.86	478-1183-1-ND	3.74	22.10	63.75	478-1183-2-ND	4,000	61.00/M	06035A471JAT2A
			560pF	±5%	0.86	478-1184-1-ND	4.62	27.30	78.75	478-1184-2-ND	4,000	76.00/M	06035A561JAT2A
			680pF	±5%	0.86	478-1185-1-ND	4.40	26.00	75.00	478-1185-2-ND	4,000	72.00/M	06035A681JAT2A
			820pF	±5%	0.86	478-1186-1-ND	5.06	29.90	86.25	478-1186-2-ND	4,000	83.00/M	06035A821JAT2A
			1000pF	±5%	0.86	478-1187-1-ND	6.05	35.75	103.13	478-1187-2-ND	4,000	99.00/M	06035A102JAT2A
		25V	1200pF	±5%	0.86	478-1188-1-ND	7.15	42.25	121.88	478-1188-2-ND	4,000	117.00/M	06033A122JAT2A
			1500pF	±5%	0.86	478-1189-1-ND	7.15	42.25	121.88	478-1189-2-ND	4,000	117.00/M	06033A152JAT2A
	X7R	200V	220pF	±10%	0.86	478-1190-1-ND	7.15	42.25	121.88	478-1190-2-ND	4,000	117.00/M	06032C221KAT2A
			330pF	±10%	0.86	478-1191-1-ND	7.15	42.25	121.88	478-1191-2-ND	4,000	117.00/M	06032C331KAT2A
			470pF	±10%	0.86	478-1192-1-ND	7.15	42.25	121.88	478-1192-2-ND	4,000	117.00/M	06032C471KAT2A
			680pF	±10%	0.86	478-1193-1-ND	7.15	42.25	121.88	478-1193-2-ND	4,000	117.00/M	06032C681KAT2A
			1000pF	±10%	0.86	478-1194-1-ND	7.15	42.25	121.88	478-1194-2-ND	4,000	117.00/M	06032C102KAT2A
		100V	220pF	±10%	0.86	478-1195-1-ND	4.40	26.00	75.00	478-1195-2-ND	4,000	72.00/M	06031C221KAT2A
			330pF	±10%	0.86	478-1196-1-ND	4.40	26.00	75.00	478-1196-2-ND	4,000	72.00/M	06031C331KAT2A
			470pF	±10%	0.86	478-1197-1-ND	4.40	26.00	75.00	478-1197-2-ND	4,000	72.00/M	06031C471KAT2A
			680pF	±10%	0.86	478-1198-1-ND	4.40	26.00	75.00	478-1198-2-ND	4,000	72.00/M	06031C681KAT2A
			1000pF	±10%	0.86	478-1199-1-ND	4.40	26.00	75.00	478-1199-2-ND	4,000	72.00/M	06031C102KAT2A
			1500pF	±10%	0.86	478-1200-1-ND	4.95	29.25	84.38	478-1200-2-ND	4,000	81.00/M	06031C152KAT2A
			2200pF	±10%	0.86	478-1201-1-ND	4.95	29.25	84.38	478-1201-2-ND	4,000	81.00/M	06031C222KAT2A
			3300pF	±10%	0.86	478-1202-1-ND	4.95	29.25	84.38	478-1202-2-ND	4,000	81.00/M	06031C332KAT2A
			4700pF	±10%	0.86	478-1203-1-ND	4.95	29.25	84.38	478-1203-2-ND	4,000	81.00/M	06031C472KAT2A
			6800pF	±10%	0.86	478-1204-1-ND	4.95	29.25	84.38	478-1204-2-ND	4,000	81.00/M	06031C682KAT2A
			.01µF	±10%	0.86	478-1205-1-ND	4.95	29.25	84.38	478-1205-2-ND	4,000	81.00/M	06031C103KAT2A
		50V	180pF	±10%	0.86	478-1206-1-ND	2.09	12.35	35.63	478-1206-2-ND	4,000	34.00/M	06035C181KAT2A
			220pF	±10%	0.86	478-1207-1-ND	2.09	12.35	35.63	478-1207-2-ND	4,000	34.00/M	06035C221KAT2A
			270pF	±10%	0.86	478-1208-1-ND	2.09	12.35	35.63	478-1208-2-ND	4,000	34.00/M	06035C271KAT2A
			330pF	±10%	0.86	478-1209-1-ND	2.09	12.35	35.63	478-1209-2-ND	4,000	34.00/M	06035C331KAT2A
			390pF	±10%	0.86	478-1210-1-ND	2.09	12.35	35.63	478-1210-2-ND	4,000	34.00/M	06035C391KAT2A
			470pF	±10%	0.86	478-1211-1-ND	2.09	12.35	35.63	478-1211-2-ND	4,000	34.00/M	06035C471KAT2A
			560pF	±10%	0.86	478-1212-1-ND	2.09	12.35	35.63	478-1212-2-ND	4,000	34.00/M	06035C561KAT2A
			680pF	±10%	0.86	478-1213-1-ND	2.09	12.35	35.63	478-1213-2-ND	4,000	34.00/M	06035C681KAT2A
			820pF	±10%	0.86	478-1214-1-ND	2.09	12.35	35.63	478-1214-2-ND	4,000	34.00/M	06035C821KAT2A
			1000pF	±10%	0.86	478-1215-1-ND	1.65	9.75	28.13	478-1215-2-ND	4,000	27.00/M	06035C102KAT2A
			1200pF	±10%	0.86	478-1216-1-ND	2.09	12.35	35.63	478-1216-2-ND	4,000	34.00/M	06035C122KAT2A
			1500pF	±10%	0.86	478-1217-1-ND	1.87	11.05	31.88	478-1217-2-ND	4,000	31.00/M	06035C152KAT2A
			1800pF	±10%	0.86	478-1218-1-ND	2.09	12.35	35.63	478-1218-2-ND	4,000	34.00/M	06035C182KAT2A
			2200pF	±10%	0.86	478-1219-1-ND	1.87	11.05	31.88	478-1219-2-ND	4,000	31.00/M	06035C222KAT2A
			2700pF	±10%	0.86	478-1220-1-ND	2.09	12.35	35.63	478-1220-2-ND	4,000	34.00/M	06035C272KAT2A
			3300pF	±10%	0.86	478-1221-1-ND	1.87	11.05	31.88	478-1221-2-ND	4,000	31.00/M	06035C332KAT2A
			3900pF	±10%	0.86	478-1222-1-ND	2.09	12.35	35.63	478-1222-2-ND	4,000	34.00/M	06035C392KAT2A
			4700pF	±10%	0.86	478-1223-1-ND	1.87	11.05	31.88	478-1223-2-ND	4,000	31.00/M	06035C472KAT2A
			5600pF	±10%	0.86	478-1224-1-ND	2.09	12.35	35.63	478-1224-2-ND	4,000	34.00/M	06035C562KAT2A
			6800pF	±10%	0.86	478-1225-1-ND	1.87	11.05	31.88	478-1225-2-ND	4,000	31.00/M	06035C682KAT2A
			8200pF	±10%	0.86	478-1226-1-ND	2.09	12.35	35.63	478-1226-2-ND	4,000	34.00/M	06035C822KAT2A
			.01µF	±10%	0.86	478-1227-1-ND	1.87	11.05	31.88	478-1227-2-ND	4,000	31.00/M	06035C103KAT2A
			.012µF	±10%	0.86	478-1228-1-ND	2.53	14.95	43.13	478-1228-2-ND	4,000	41.00/M	06035C123KAT2A
			.015µF	±10%	0.86	478-1229-1-ND	2.31	13.65	39.38	478-1229-2-ND	4,000	38.00/M	06035C153KAT2A
			.018µF	±10%	0.86	478-1230-1-ND	2.75	16.25	46.88	478-1230-2-ND	4,000	45.00/M	06035C183KAT2A
			.022µF	±10%	0.86	478-1231-1-ND	2.53	14.95	43.13	478-1231-2-ND	4,000	41.00/M	06035C223KAT2A
			.027µF	±10%	0.86	478-1232-1-ND	2.75	16.25	46.88	478-1232-2-ND	4,000	45.00/M	06035C273KAT2A
			.033µF	±10%	0.86	478-1233-1-ND	2.53	14.95	43.13	478-1233-2-ND	4,000	41.00/M	06035C333KAT2A
			.039µF	±10%	0.86	478-1234-1-ND	2.86	16.90	48.75	478-1234-2-ND	4,000	47.00/M	06035C393KAT2A
		25V	.047µF	±10%	0.86	478-1235-1-ND	2.86	16.90	48.75	478-1235-2-ND	4,000	47.00/M	06033C473KAT2A
		16V	.056µF	±10%	0.86	478-1236-1-ND	2.97	17.55	50.63	478-1236-2-ND	4,000	49.00/M	0603YC563KAT2A
			.068µF	±10%	0.86	478-1237-1-ND	2.86	16.90	48.75	478-1237-2-ND	4,000	47.00/M	0603YC683KAT2A
			.082µF	±10%	0.86	478-1238-1-ND	3.08	18.20	52.50	478-1238-2-ND	4,000	50.00/M	0603YC823KAT2A
			.10µF	±10%	0.86	478-1239-1-ND	2.20	13.00	37.50	478-1239-2-ND	4,000	36.00/M	0603YC104KAT2A
		10V	.12µF	±10%	0.86	478-1240-1-ND	3.85	22.75	65.63	478-1240-2-ND	4,000	63.00/M	0603ZC124KAT2A
			.15µF	±10%	0.86	478-1241-1-ND	3.85	22.75	65.63	478-1241-2-ND	4,000	63.00/M	0603ZC154KAT2A
			.18µF	±10%	0.86	478-1242-1-ND	4.40	26.00	75.00	478-1242-2-ND	4,000	72.00/M	0603ZC184KAT2A
			.22µF	±10%	0.86	478-1243-1-ND	4.40	26.00	75.00	478-1243-2-ND	4,000	72.00/M	0603ZC224KAT2A
	X5R	25V	.10µF	±10%	0.86	478-1244-1-ND	3.85	22.75	65.63	478-1244-2-ND	4,000	63.00/M	06033D104KAT2A
			.22µF	±10%	0.86	478-1245-1-ND	4.95	29.25	84.38	478-1245-2-ND	4,000	81.00/M	06033D224KAT2A
		16V	.22µF	±10%	0.86	478-1246-1-ND	4.40	26.00	75.00	478-1246-2-ND	4,000	72.00/M	0603YD224KAT2A
			.33µF	±10%	0.86	478-1247-1-ND	4.62	27.30	78.75	478-1247-2-ND	4,000	76.00/M	0603YD334KAT2A
			.47µF	±10%	0.86	478-1248-1-ND	4.95	29.25	84.38	478-1248-2-ND	4,000	81.00/M	0603YD474KAT2A
			1µF	±10%	0.86	478-1249-1-ND	7.15	42.25	121.88	478-1249-2-ND	4,000	117.00/M	0603YD105KAT2A
		10V	.68µF	±10%	0.86	478-1250-1-ND	4.95	29.25	84.38	478-1250-2-ND	4,000	81.00/M	0603ZD684KAT2A
			1µF	±10%	0.86	478-1251-1-ND	6.05	35.75	103.13	478-1251-2-ND	4,000	99.00/M	0603ZD105KAT2A
		6.3V	2.2µF	±10%	0.86	478-1252-1-ND	7.15	42.25	121.88	478-1252-2-ND	4,000	117.00/M	06036D225KAT2A
		4V	4.7µF	±10%	0.94	478-1253-1-ND	16.50	97.50	281.25	478-1253-2-ND	4,000	270.00/M	06034D475KAT2A
	Y5V	50V	.01µF	+80 -20%	0.86	478-1254-1-ND	2.42	14.30	41.25	478-1254-2-ND	4,000	40.00/M	06035G103ZAT2A
			.022µF	+80 -20%	0.86	478-1255-1-ND	2.42	14.30	41.25	478-1255-2-ND	4,000	40.00/M	06035G223ZAT2A
			.033µF	+80 -20%	0.86	478-1256-1-ND	2.42	14.30	41.25	478-1256-2-ND	4,000	40.00/M	06035G333ZAT2A
			.047µF	+80 -20%	0.86	478-1257-1-ND	2.42	14.30	41.25	478-1257-2-ND	4,000	40.00/M	06035G473ZAT2A
			.068µF	+80 -20%	0.86	478-1258-1-ND	2.42	14.30	41.25	478-1258-2-ND	4,000	40.00/M	06035G683ZAT2A
		25V	.10µF	+80 -20%	0.86	478-1259-1-ND	2.42	14.30	41.25	478-1259-2-ND	4,000	40.00/M	06033G104ZAT2A
			.15µF	+80 -20%	0.86	478-1260-1-ND	2.86	16.90	48.75	478-1260-2-ND	4,000	47.00/M	06033G154ZAT2A
			.22µF	+80 -20%	0.86	478-1261-1-ND	2.86	16.90	48.75	478-1261-2-ND	4,000	47.00/M	06033G224ZAT2A
		16V	.33µF	+80 -20%	0.86	478-1262-1-ND	3.52	20.80	60.00	478-1262-2-ND	4,000	58.00/M	0603YG334ZAT2A
			.47µF	+80 -20%	0.86	478-1263-1-ND	3.85	22.75	65.63	478-1263-2-ND	4,000	63.00/M	0603YG474ZAT2A
			1µF	+80 -20%	0.86	478-1264-1-ND	5.50	32.50	93.75	478-1264-2-ND	4,000	90.00/M	0603YG105ZAT2A
		10V	1µF	+80 -20%	0.86	478-1265-1-ND	4.40	26.00	75.00	478-1265-2-ND	4,000	72.00/M	0603ZG105ZAT2A
0805	C0G (NP0)	200V	10pF	±5%	0.94	478-1266-1-ND	8.80	52.00	150.00	478-1266-2-ND	4,000	144.00/M	08052A100JAT2A
			15pF	±5%	0.94	478-1267-1-ND	8.80	52.00	150.00	478-1267-2-ND	4,000	144.00/M	08052A150JAT2A
			22pF	±5%	0.94	478-1268-1-ND	8.80	52.00	150.00	478-1268-2-ND	4,000	144.00/M	08052A220JAT2A

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NEW! AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
0805	C0G (NP0)	200V	33pF	±5%	0.94	478-1269-1-ND	8.80	52.00	150.00	478-1269-2-ND	4,000	144.00/M	08052A330JAT2A
			47pF	±5%	0.94	478-1270-1-ND	8.80	52.00	150.00	478-1270-2-ND	4,000	144.00/M	08052A470JAT2A
			68pF	±5%	0.94	478-1271-1-ND	8.80	52.00	150.00	478-1271-2-ND	4,000	144.00/M	08052A680JAT2A
			100pF	±5%	0.94	478-1272-1-ND	8.80	52.00	150.00	478-1272-2-ND	4,000	144.00/M	08052A101JAT2A
			150pF	±5%	0.94	478-1273-1-ND	9.35	55.25	159.38	478-1273-2-ND	4,000	153.00/M	08052A151JAT2A
			220pF	±5%	0.94	478-1274-1-ND	9.35	55.25	159.38	478-1274-2-ND	4,000	153.00/M	08052A221JAT2A
			330pF	±5%	1.27	478-1275-1-ND	9.35	55.25	159.38	478-1275-2-ND	2,000	153.00/M	08052A331JAT2A
			470pF	±5%	1.27	478-1276-1-ND	9.90	58.50	168.75	478-1276-2-ND	2,000	162.00/M	08052A471JAT2A
			680pF	±5%	1.27	478-1277-1-ND	9.90	58.50	168.75	478-1277-2-ND	2,000	162.00/M	08052A681JAT2A
		100V	10pF	±5%	0.71	478-1278-1-ND	6.60	39.00	112.50	478-1278-2-ND	4,000	108.00/M	08051A100JAT2A
			15pF	±5%	0.71	478-1279-1-ND	6.60	39.00	112.50	478-1279-2-ND	4,000	108.00/M	08051A150JAT2A
			22pF	±5%	0.71	478-1280-1-ND	6.60	39.00	112.50	478-1280-2-ND	4,000	108.00/M	08051A220JAT2A
			33pF	±5%	0.71	478-1281-1-ND	6.60	39.00	112.50	478-1281-2-ND	4,000	108.00/M	08051A330JAT2A
			47pF	±5%	0.71	478-1282-1-ND	6.60	39.00	112.50	478-1282-2-ND	4,000	108.00/M	08051A470JAT2A
			68pF	±5%	0.71	478-1283-1-ND	6.60	39.00	112.50	478-1283-2-ND	4,000	108.00/M	08051A680JAT2A
			100pF	±5%	0.71	478-1284-1-ND	6.60	39.00	112.50	478-1284-2-ND	4,000	108.00/M	08051A101JAT2A
			150pF	±5%	0.71	478-1285-1-ND	7.15	42.25	121.88	478-1285-2-ND	4,000	117.00/M	08051A151JAT2A
			220pF	±5%	0.71	478-1286-1-ND	7.15	42.25	121.88	478-1286-2-ND	4,000	117.00/M	08051A221JAT2A
			330pF	±5%	0.94	478-1287-1-ND	7.70	45.50	131.25	478-1287-2-ND	4,000	126.00/M	08051A331JAT2A
			470pF	±5%	0.94	478-1288-1-ND	7.70	45.50	131.25	478-1288-2-ND	4,000	126.00/M	08051A471JAT2A
			680pF	±5%	0.94	478-1289-1-ND	8.25	48.75	140.63	478-1289-2-ND	4,000	135.00/M	08051A681JAT2A
			1000pF	±5%	0.94	478-1290-1-ND	9.35	55.25	159.38	478-1290-2-ND	4,000	153.00/M	08051A102JAT2A
		50V	.5pF	±.25pF	0.71	478-1291-1-ND	2.31	13.65	39.38	478-1291-2-ND	4,000	38.00/M	08055A0R5CAT2A
			1pF	±.25pF	0.71	478-1292-1-ND	2.31	13.65	39.38	478-1292-2-ND	4,000	38.00/M	08055A1R0CAT2A
			1.2pF	±.25pF	0.71	478-1293-1-ND	2.31	13.65	39.38	478-1293-2-ND	4,000	38.00/M	08055A1R2CAT2A
			1.5pF	±.25pF	0.71	478-1294-1-ND	2.31	13.65	39.38	478-1294-2-ND	4,000	38.00/M	08055A1R5CAT2A
			1.8pF	±.25pF	0.71	478-1295-1-ND	2.31	13.65	39.38	478-1295-2-ND	4,000	38.00/M	08055A1R8CAT2A
			2.2pF	±.25pF	0.71	478-1296-1-ND	2.31	13.65	39.38	478-1296-2-ND	4,000	38.00/M	08055A2R2CAT2A
			2.7pF	±.25pF	0.71	478-1297-1-ND	2.31	13.65	39.38	478-1297-2-ND	4,000	38.00/M	08055A2R7CAT2A
			3.3pF	±.25pF	0.71	478-1298-1-ND	2.31	13.65	39.38	478-1298-2-ND	4,000	38.00/M	08055A3R3CAT2A
			3.9pF	±.25pF	0.71	478-1299-1-ND	2.31	13.65	39.38	478-1299-2-ND	4,000	38.00/M	08055A3R9CAT2A
			4.7pF	±.25pF	0.71	478-1300-1-ND	2.31	13.65	39.38	478-1300-2-ND	4,000	38.00/M	08055A4R7CAT2A
			5.6pF	±.25pF	0.71	478-1301-1-ND	2.31	13.65	39.38	478-1301-2-ND	4,000	38.00/M	08055A5R6CAT2A
			6.8pF	±.25pF	0.71	478-1302-1-ND	2.31	13.65	39.38	478-1302-2-ND	4,000	38.00/M	08055A6R8CAT2A
			8.2pF	±.25pF	0.71	478-1303-1-ND	2.31	13.65	39.38	478-1303-2-ND	4,000	38.00/M	08055A8R2CAT2A
			10pF	±5%	0.71	478-1304-1-ND	2.09	12.35	35.63	478-1304-2-ND	4,000	34.00/M	08055A100JAT2A
			12pF	±5%	0.71	478-1305-1-ND	2.09	12.35	35.63	478-1305-2-ND	4,000	34.00/M	08055A120JAT2A
			15pF	±5%	0.71	478-1306-1-ND	2.09	12.35	35.63	478-1306-2-ND	4,000	34.00/M	08055A150JAT2A
			18pF	±5%	0.71	478-1307-1-ND	2.09	12.35	35.63	478-1307-2-ND	4,000	34.00/M	08055A180JAT2A
			22pF	±5%	0.71	478-1308-1-ND	2.09	12.35	35.63	478-1308-2-ND	4,000	34.00/M	08055A220JAT2A
			27pF	±5%	0.71	478-1309-1-ND	2.09	12.35	35.63	478-1309-2-ND	4,000	34.00/M	08055A270JAT2A
			33pF	±5%	0.71	478-1310-1-ND	2.09	12.35	35.63	478-1310-2-ND	4,000	34.00/M	08055A330JAT2A
			39pF	±5%	0.71	478-1311-1-ND	2.09	12.35	35.63	478-1311-2-ND	4,000	34.00/M	08055A390JAT2A
			47pF	±5%	0.71	478-1312-1-ND	2.09	12.35	35.63	478-1312-2-ND	4,000	34.00/M	08055A470JAT2A
			56pF	±5%	0.71	478-1313-1-ND	2.09	12.35	35.63	478-1313-2-ND	4,000	34.00/M	08055A560JAT2A
			68pF	±5%	0.71	478-1314-1-ND	2.09	12.35	35.63	478-1314-2-ND	4,000	34.00/M	08055A680JAT2A
			82pF	±5%	0.71	478-1315-1-ND	2.09	12.35	35.63	478-1315-2-ND	4,000	34.00/M	08055A820JAT2A
			100pF	±5%	0.71	478-1316-1-ND	1.87	11.05	31.88	478-1316-2-ND	4,000	31.00/M	08055A101JAT2A
			120pF	±5%	0.71	478-1317-1-ND	2.31	13.65	39.38	478-1317-2-ND	4,000	38.00/M	08055A121JAT2A
			150pF	±5%	0.71	478-1318-1-ND	2.31	13.65	39.38	478-1318-2-ND	4,000	38.00/M	08055A151JAT2A
			180pF	±5%	0.71	478-1319-1-ND	2.31	13.65	39.38	478-1319-2-ND	4,000	38.00/M	08055A181JAT2A
			220pF	±5%	0.71	478-1320-1-ND	2.64	15.60	45.00	478-1320-2-ND	4,000	43.00/M	08055A221JAT2A
			270pF	±5%	0.71	478-1321-1-ND	2.64	15.60	45.00	478-1321-2-ND	4,000	43.00/M	08055A271JAT2A
			330pF	±5%	0.71	478-1322-1-ND	2.86	16.90	48.75	478-1322-2-ND	4,000	47.00/M	08055A331JAT2A
			390pF	±5%	0.94	478-1323-1-ND	2.86	16.90	48.75	478-1323-2-ND	4,000	47.00/M	08055A391JAT2A
			470pF	±5%	0.94	478-1324-1-ND	2.86	16.90	48.75	478-1324-2-ND	4,000	47.00/M	08055A471JAT2A
			560pF	±5%	0.94	478-1325-1-ND	3.08	18.20	52.50	478-1325-2-ND	4,000	50.00/M	08055A561JAT2A
			680pF	±5%	0.94	478-1326-1-ND	3.08	18.20	52.50	478-1326-2-ND	4,000	50.00/M	08055A681JAT2A
			820pF	±5%	0.94	478-1327-1-ND	3.30	19.50	56.25	478-1327-2-ND	4,000	54.00/M	08055A821JAT2A
			1000pF	±5%	0.94	478-1328-1-ND	3.52	20.80	60.00	478-1328-2-ND	4,000	58.00/M	08055A102JAT2A
			1500pF	±5%	0.94	478-1329-1-ND	4.40	26.00	75.00	478-1329-2-ND	4,000	72.00/M	08055A152JAT2A
			2200pF	±5%	1.27	478-1330-1-ND	4.95	29.25	84.38	478-1330-2-ND	2,000	81.00/M	08055A222JAT2A
			3300pF	±5%	1.27	478-1331-1-ND	6.05	35.75	103.13	478-1331-2-ND	2,000	99.00/M	08055A332JAT2A
		25V	4700pF	±5%	1.40	478-1332-1-ND	6.60	39.00	112.50	478-1332-2-ND	2,000	108.00/M	08053A472JAT2A
		16V	6800pF	±5%	1.40	478-1333-1-ND	7.70	45.50	131.25	478-1333-2-ND	2,000	126.00/M	0805YA682JAT2A
			.01µF	±5%	1.40	478-1334-1-ND	8.80	52.00	150.00	478-1334-2-ND	2,000	144.00/M	0805YA103JAT2A
	X7R	200V	220pF	±10%	0.71	478-1335-1-ND	8.25	48.75	140.63	478-1335-2-ND	4,000	135.00/M	08052C221KAT2A
			330pF	±10%	0.71	478-1336-1-ND	8.25	48.75	140.63	478-1336-2-ND	4,000	135.00/M	08052C331KAT2A
			470pF	±10%	0.71	478-1337-1-ND	8.25	48.75	140.63	478-1337-2-ND	4,000	135.00/M	08052C471KAT2A
			680pF	±10%	0.71	478-1338-1-ND	8.25	48.75	140.63	478-1338-2-ND	4,000	135.00/M	08052C681KAT2A
			1000pF	±10%	0.71	478-1339-1-ND	8.25	48.75	140.63	478-1339-2-ND	4,000	135.00/M	08052C102KAT2A
			1500pF	±10%	0.94	478-1340-1-ND	8.80	52.00	150.00	478-1340-2-ND	4,000	144.00/M	08052C152KAT2A
			2200pF	±10%	0.94	478-1341-1-ND	8.80	52.00	150.00	478-1341-2-ND	4,000	144.00/M	08052C222KAT2A
			3300pF	±10%	0.94	478-1342-1-ND	8.80	52.00	150.00	478-1342-2-ND	4,000	144.00/M	08052C332KAT2A
			4700pF	±10%	0.94	478-1343-1-ND	9.90	58.50	168.75	478-1343-2-ND	2,000	162.00/M	08052C472KAT2A
			6800pF	±10%	0.94	478-1344-1-ND	10.45	61.75	178.13	478-1344-2-ND	4,000	171.00/M	08052C682KAT2A
			.01µF	±10%	0.94	478-1345-1-ND	12.10	71.50	206.25	478-1345-2-ND	4,000	198.00/M	08052C103KAT2A
			.015µF	±10%	0.94	478-1346-1-ND	14.30	84.50	243.75	478-1346-2-ND	4,000	234.00/M	08052C153KAT2A
			.022µF	±10%	1.27	478-1347-1-ND	16.50	97.50	281.25	478-1347-2-ND	2,000	270.00/M	08052C223KAT2A
		100V	220pF	±10%	0.71	478-1348-1-ND	5.50	32.50	93.75	478-1348-2-ND	4,000	90.00/M	08051C221KAT2A
			330pF	±10%	0.71	478-1349-1-ND	5.50	32.50	93.75	478-1349-2-ND	4,000	90.00/M	08051C331KAT2A
			470pF	±10%	0.71	478-1350-1-ND	5.50	32.50	93.75	478-1350-2-ND	4,000	90.00/M	08051C471KAT2A
			680pF	±10%	0.71	478-1351-1-ND	5.50	32.50	93.75	478-1351-2-ND	4,000	90.00/M	08051C681KAT2A
			1000pF	±10%	0.71	478-1352-1-ND	5.50	32.50	93.75	478-1352-2-ND	4,000	90.00/M	08051C102KAT2A
			1500pF	±10%	0.71	478-1353-1-ND	6.05	35.75	103.13	478-1353-2-ND	4,000	99.00/M	08051C152KAT2A
			2200pF	±10%	0.71	478-1354-1-ND	6.05	35.75	103.13	478-1354-2-ND	4,000	99.00/M	08051C222KAT2A
			3300pF	±10%	0.71	478-1355-1-ND	6.05	35.75	103.13	478-1355-2-ND	4,000	99.00/M	08051C332KAT2A
			4700pF	±10%	0.94	478-1356-1-ND	6.60	39.00	112.50	478-1356-2-ND	4,000	108.00/M	08051C472KAT2A
			6800pF	±10%	0.94	478-1357-1-ND	6.60	39.00	112.50	478-1357-2-ND	4,000	108.00/M	08051C682KAT2A
			.01µF	±10%	0.94	478-1358-1-ND	8.25	48.75	140.63	478-1358-2-ND	4,000	135.00/M	08051C103KAT2A
			.015µF	±10%	0.94	478-1359-1-ND	8.25	48.75	140.63	478-1359-2-ND	4,000	135.00/M	08051C153KAT2A
			.022µF	±10%	0.94	478-1360-1-ND	9.35	55.25	159.38	478-1360-2-ND	4,000	153.00/M	08051C223KAT2A
			.033µF	±10%	1.27	478-1361-1-ND	11.00	65.00	187.50	478-1361-2-ND	2,000	180.00/M	08051C333KAT2A
			.047µF	±10%	1.27	478-1362-1-ND	12.10	71.50	206.25	478-1362-2-ND	2,000	198.00/M	08051C473KAT2A

(Continued)

NEW! AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
0805	X7R	50V	220pF	±10%	0.71	478-1363-1-ND	2.31	13.65	39.38	478-1363-2-ND	4,000	38.00/M	08055C221KAT2A
			270pF	±10%	0.71	478-1364-1-ND	2.31	13.65	39.38	478-1364-2-ND	4,000	38.00/M	08055C271KAT2A
			330pF	±10%	0.71	478-1365-1-ND	2.31	13.65	39.38	478-1365-2-ND	4,000	38.00/M	08055C331KAT2A
			390pF	±10%	0.71	478-1366-1-ND	2.31	13.65	39.38	478-1366-2-ND	4,000	38.00/M	08055C391KAT2A
			470pF	±10%	0.71	478-1367-1-ND	2.31	13.65	39.38	478-1367-2-ND	4,000	38.00/M	08055C471KAT2A
			560pF	±10%	0.71	478-1368-1-ND	2.31	13.65	39.38	478-1368-2-ND	4,000	38.00/M	08055C561KAT2A
			680pF	±10%	0.71	478-1369-1-ND	2.31	13.65	39.38	478-1369-2-ND	4,000	38.00/M	08055C681KAT2A
			820pF	±10%	0.71	478-1370-1-ND	2.31	13.65	39.38	478-1370-2-ND	4,000	38.00/M	08055C821KAT2A
			1000pF	±10%	0.71	478-1371-1-ND	2.09	12.35	35.63	478-1371-2-ND	4,000	34.00/M	08055C102KAT2A
			1200pF	±10%	0.71	478-1372-1-ND	2.31	13.65	39.38	478-1372-2-ND	4,000	38.00/M	08055C122KAT2A
			1500pF	±10%	0.71	478-1373-1-ND	2.31	13.65	39.38	478-1373-2-ND	4,000	38.00/M	08055C152KAT2A
			1800pF	±10%	0.71	478-1374-1-ND	2.31	13.65	39.38	478-1374-2-ND	4,000	38.00/M	08055C182KAT2A
			2200pF	±10%	0.71	478-1375-1-ND	2.31	13.65	39.38	478-1375-2-ND	4,000	38.00/M	08055C222KAT2A
			2700pF	±10%	0.71	478-1376-1-ND	2.31	13.65	39.38	478-1376-2-ND	4,000	38.00/M	08055C272KAT2A
			3300pF	±10%	0.71	478-1377-1-ND	2.31	13.65	39.38	478-1377-2-ND	4,000	38.00/M	08055C332KAT2A
			3900pF	±10%	0.71	478-1378-1-ND	2.31	13.65	39.38	478-1378-2-ND	4,000	38.00/M	08055C392KAT2A
			4700pF	±10%	0.71	478-1379-1-ND	2.31	13.65	39.38	478-1379-2-ND	4,000	38.00/M	08055C472KAT2A
			5600pF	±10%	0.71	478-1380-1-ND	2.31	13.65	39.38	478-1380-2-ND	4,000	38.00/M	08055C562KAT2A
			6800pF	±10%	0.71	478-1381-1-ND	2.31	13.65	39.38	478-1381-2-ND	4,000	38.00/M	08055C682KAT2A
			8200pF	±10%	0.71	478-1382-1-ND	2.31	13.65	39.38	478-1382-2-ND	4,000	38.00/M	08055C822KAT2A
			.01µF	±10%	0.71	478-1383-1-ND	2.09	12.35	35.63	478-1383-2-ND	4,000	34.00/M	08055C103KAT2A
			.012µF	±10%	0.94	478-1384-1-ND	2.64	15.60	45.00	478-1384-2-ND	4,000	43.00/M	08055C123KAT2A
			.015µF	±10%	0.94	478-1385-1-ND	2.64	15.60	45.00	478-1385-2-ND	4,000	43.00/M	08055C153KAT2A
			.018µF	±10%	0.94	478-1386-1-ND	2.86	16.90	48.75	478-1386-2-ND	4,000	47.00/M	08055C183KAT2A
			.022µF	±10%	0.94	478-1387-1-ND	2.86	16.90	48.75	478-1387-2-ND	4,000	47.00/M	08055C223KAT2A
			.027µF	±10%	0.94	478-1388-1-ND	3.08	18.20	52.50	478-1388-2-ND	4,000	50.00/M	08055C273KAT2A
			.033µF	±10%	0.94	478-1389-1-ND	3.08	18.20	52.50	478-1389-2-ND	4,000	50.00/M	08055C333KAT2A
			.039µF	±10%	0.94	478-1390-1-ND	3.52	20.80	60.00	478-1390-2-ND	4,000	58.00/M	08055C393KAT2A
			.047µF	±10%	0.94	478-1391-1-ND	3.52	20.80	60.00	478-1391-2-ND	4,000	58.00/M	08055C473KAT2A
			.056µF	±10%	0.94	478-1392-1-ND	3.85	22.75	65.63	478-1392-2-ND	4,000	63.00/M	08055C563KAT2A
			.068µF	±10%	0.94	478-1393-1-ND	3.85	22.75	65.63	478-1393-2-ND	4,000	63.00/M	08055C683KAT2A
			.082µF	±10%	0.94	478-1394-1-ND	4.18	24.70	71.25	478-1394-2-ND	4,000	68.00/M	08055C823KAT2A
			.10µF	±10%	0.94	478-1395-1-ND	2.75	16.25	46.88	478-1395-2-ND	4,000	45.00/M	08055C104KAT2A
			.12µF	±10%	1.27	478-1396-1-ND	4.40	26.00	75.00	478-1396-2-ND	2,000	72.00/M	08055C124KAT2A
		25V	.15µF	±10%	0.94	478-1397-1-ND	4.62	27.30	78.75	478-1397-2-ND	4,000	76.00/M	08053C154KAT2A
			.18µF	±10%	0.94	478-1398-1-ND	4.95	29.25	84.38	478-1398-2-ND	2,000	81.00/M	08053C184KAT2A
			.22µF	±10%	0.94	478-1399-1-ND	5.50	32.50	93.75	478-1399-2-ND	2,000	90.00/M	08053C224KAT2A
		16V	.22µF	±10%	0.94	478-1400-1-ND	4.95	29.25	84.38	478-1400-2-ND	4,000	81.00/M	0805YC224KAT2A
			.27µF	±10%	0.94	478-1401-1-ND	6.05	35.75	103.13	478-1401-2-ND	2,000	99.00/M	0805YC274KAT2A
			.33µF	±10%	0.94	478-1402-1-ND	7.15	42.25	121.88	478-1402-2-ND	2,000	117.00/M	0805YC334KAT2A
			.47µF	±10%	0.94	478-1403-1-ND	8.80	52.00	150.00	478-1403-2-ND	2,000	144.00/M	0805YC474KAT2A
		10V	.68µF	±10%	0.94	478-1404-1-ND	9.35	55.25	159.38	478-1404-2-ND	2,000	153.00/M	0805ZC684KAT2A
			1µF	±10%	1.40	478-1405-1-ND	11.00	65.00	187.50	478-1405-2-ND	2,000	180.00/M	0805ZC105KAT2A
	X5R	25V	.33µF	±10%	1.40	478-1406-1-ND	8.25	48.75	140.63	478-1406-2-ND	3,000	135.00/M	08053D334KAT2A
			.47µF	±10%	1.40	478-1407-1-ND	10.45	61.75	178.13	478-1407-2-ND	3,000	171.00/M	08053D474KAT2A
			.68µF	±10%	1.40	478-1408-1-ND	10.45	61.75	178.13	478-1408-2-ND	3,000	171.00/M	08053D684KAT2A
			1µF	±10%	1.40	478-1409-1-ND	12.10	71.50	206.25	478-1409-2-ND	3,000	198.00/M	08053D105KAT2A
		16V	.68µF	±10%	1.40	478-1410-1-ND	10.45	61.75	178.13	478-1410-2-ND	3,000	171.00/M	0805YD684KAT2A
			1.0µF	±10%	1.40	478-1411-1-ND	12.10	71.50	206.25	478-1411-2-ND	2,000	198.00/M	0805YD105KAT2A
		10V	1.0µF	±10%	1.40	478-1412-1-ND	11.55	68.25	196.88	478-1412-2-ND	2,000	189.00/M	0805ZD105KAT2A
			2.2µF	±10%	1.40	478-1413-1-ND	14.30	84.50	243.75	478-1413-2-ND	3,000	234.00/M	0805ZD225KAT2A
			3.3µF	±10%	1.40	478-1414-1-ND	14.85	87.75	253.13	478-1414-2-ND	3,000	243.00/M	0805ZD335KAT2A
			4.7µF	±10%	1.40	478-1415-1-ND	13.75	81.25	234.38	478-1415-2-ND	3,000	225.00/M	0805ZD475KAT2A
		6.3V	4.7µF	±10%	1.40	478-1416-1-ND	12.10	71.50	206.25	478-1416-2-ND	3,000	198.00/M	08056D475KAT2A
			10µF	±10%	1.40	478-1417-1-ND	22.55	133.25	384.38	478-1417-2-ND	3,000	369.00/M	08056D106KAT2A
	Y5V	50V	.01µF	+80 -20%	0.71	478-1418-1-ND	1.87	11.05	31.88	478-1418-2-ND	4,000	31.00/M	08055G103ZAT2A
			.022µF	+80 -20%	0.71	478-1419-1-ND	2.31	13.65	39.38	478-1419-2-ND	4,000	38.00/M	08055G223ZAT2A
			.047µF	+80 -20%	0.71	478-1420-1-ND	3.30	19.50	56.25	478-1420-2-ND	4,000	54.00/M	08055G473ZAT2A
			.10µF	+80 -20%	0.71	478-1421-1-ND	2.20	13.00	37.50	478-1421-2-ND	4,000	36.00/M	08055G104ZAT2A
			.22µF	+80 -20%	0.94	478-1422-1-ND	4.40	26.00	75.00	478-1422-2-ND	2,000	72.00/M	08055G224ZAT2A
		25V	.10µF	+80 -20%	0.71	478-1423-1-ND	4.18	24.70	71.25	478-1423-2-ND	4,000	68.00/M	08053G104ZAT2A
			.22µF	+80 -20%	0.94	478-1424-1-ND	4.18	24.70	71.25	478-1424-2-ND	4,000	68.00/M	08053G224ZAT2A
			.47µF	+80 -20%	1.40	478-1425-1-ND	7.15	42.25	121.88	478-1425-2-ND	3,000	117.00/M	08053G474ZAT2A
			1µF	+80 -20%	1.40	478-1426-1-ND	8.25	48.75	140.63	478-1426-2-ND	3,000	135.00/M	08053G105ZAT2A
		16V	1.0µF	+80 -20%	1.40	478-1427-1-ND	7.70	45.50	131.25	478-1427-2-ND	3,000	126.00/M	0805YG105ZAT2A
			2.2µF	+80 -20%	1.40	478-1428-1-ND	9.90	58.50	168.75	478-1428-2-ND	3,000	162.00/M	0805YG225ZAT2A
		10V	4.7µF	+80 -20%	1.52	478-1429-1-ND	11.00	65.00	187.50	478-1429-2-ND	3,000	180.00/M	0805ZG475ZAT2A
1206	C0G (NP0)	200V	100pF	±5%	0.94	478-1430-1-ND	9.90	58.50	168.75	478-1430-2-ND	4,000	162.00/M	12062A101JAT2A
			150pF	±5%	0.94	478-1431-1-ND	9.90	58.50	168.75	478-1431-2-ND	4,000	162.00/M	12062A151JAT2A
			220pF	±5%	0.94	478-1432-1-ND	9.90	58.50	168.75	478-1432-2-ND	4,000	162.00/M	12062A221JAT2A
			330pF	±5%	0.94	478-1433-1-ND	10.45	61.75	178.13	478-1433-2-ND	4,000	171.00/M	12062A331JAT2A
			470pF	±5%	0.94	478-1434-1-ND	10.45	61.75	178.13	478-1434-2-ND	4,000	171.00/M	12062A471JAT2A
			680pF	±5%	0.94	478-1435-1-ND	10.45	61.75	178.13	478-1435-2-ND	4,000	171.00/M	12062A681JAT2A
			1000pF	±5%	1.78	478-1436-1-ND	10.45	61.75	178.13	478-1436-2-ND	2,000	171.00/M	12062A102JAT2A
			1500pF	±5%	1.78	478-1437-1-ND	10.45	61.75	178.13	478-1437-2-ND	2,000	171.00/M	12062A152JAT2A
		100V	10pF	±5%	0.94	478-1438-1-ND	7.70	45.50	131.25	478-1438-2-ND	4,000	126.00/M	12061A100JAT2A
			15pF	±5%	0.94	478-1439-1-ND	7.70	45.50	131.25	478-1439-2-ND	4,000	126.00/M	12061A150JAT2A
			22pF	±5%	0.94	478-1440-1-ND	7.70	45.50	131.25	478-1440-2-ND	4,000	126.00/M	12061A220JAT2A
			33pF	±5%	0.94	478-1441-1-ND	7.70	45.50	131.25	478-1441-2-ND	4,000	126.00/M	12061A330JAT2A
			47pF	±5%	0.94	478-1442-1-ND	7.70	45.50	131.25	478-1442-2-ND	4,000	126.00/M	12061A470JAT2A
			68pF	±5%	0.94	478-1443-1-ND	7.70	45.50	131.25	478-1443-2-ND	4,000	126.00/M	12061A680JAT2A
			100pF	±5%	0.94	478-1444-1-ND	7.70	45.50	131.25	478-1444-2-ND	4,000	126.00/M	12061A101JAT2A
			150pF	±5%	0.94	478-1445-1-ND	8.25	48.75	140.63	478-1445-2-ND	4,000	135.00/M	12061A151JAT2A
			220pF	±5%	0.94	478-1446-1-ND	8.25	48.75	140.63	478-1446-2-ND	4,000	135.00/M	12061A221JAT2A
			330pF	±5%	0.94	478-1447-1-ND	8.80	52.00	150.00	478-1447-2-ND	4,000	144.00/M	12061A331JAT2A
			470pF	±5%	0.94	478-1448-1-ND	8.80	52.00	150.00	478-1448-2-ND	4,000	144.00/M	12061A471JAT2A
			680pF	±5%	0.94	478-1449-1-ND	8.80	52.00	150.00	478-1449-2-ND	4,000	144.00/M	12061A681JAT2A
			1000pF	±5%	0.94	478-1450-1-ND	8.80	52.00	150.00	478-1450-2-ND	4,000	144.00/M	12061A102JAT2A
			1500pF	±5%	1.27	478-1451-1-ND	9.35	55.25	159.38	478-1451-2-ND	2,000	153.00/M	12061A152JAT2A
			2200pF	±5%	1.52	478-1452-1-ND	9.35	55.25	159.38	478-1452-2-ND	2,000	153.00/M	12061A222JAT2A
			3300pF	±5%	1.52	478-1453-1-ND	9.35	55.25	159.38	478-1453-2-ND	2,000	153.00/M	12061A332JAT2A
			4700pF	±5%	1.52	478-1454-1-ND	9.35	55.25	159.38	478-1454-2-ND	2,000	153.00/M	12061A472JAT2A
		50V	.5pF	±.25pF	0.94	478-1455-1-ND	4.40	26.00	75.00	478-1455-2-ND	4,000	72.00/M	12065A0R5CAT2A
			1pF	±.25pF	0.94	478-1456-1-ND	4.40	26.00	75.00	478-1456-2-ND	4,000	72.00/M	12065A1R0CAT2A

(Continued)

NEW! AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
1206	C0G (NP0)	50V	1.2pF	±.25pF	0.94	478-1457-1-ND	4.40	26.00	75.00	478-1457-2-ND	4,000	72.00/M	12065A1R2CAT2A
			1.5pF	±.25pF	0.94	478-1458-1-ND	4.40	26.00	75.00	478-1458-2-ND	4,000	72.00/M	12065A1R5CAT2A
			1.8pF	±.25pF	0.94	478-1459-1-ND	4.40	26.00	75.00	478-1459-2-ND	4,000	72.00/M	12065A1R8CAT2A
			2.2pF	±.25pF	0.94	478-1460-1-ND	4.40	26.00	75.00	478-1460-2-ND	4,000	72.00/M	12065A2R2CAT2A
			2.7pF	±.25pF	0.94	478-1461-1-ND	4.40	26.00	75.00	478-1461-2-ND	4,000	72.00/M	12065A2R7CAT2A
			3.3pF	±.25pF	0.94	478-1462-1-ND	4.40	26.00	75.00	478-1462-2-ND	4,000	72.00/M	12065A3R3CAT2A
			3.9pF	±.25pF	0.94	478-1463-1-ND	4.40	26.00	75.00	478-1463-2-ND	4,000	72.00/M	12065A3R9CAT2A
			4.7pF	±.25pF	0.94	478-1464-1-ND	4.40	26.00	75.00	478-1464-2-ND	4,000	72.00/M	12065A4R7CAT2A
			5.6pF	±.25pF	0.94	478-1465-1-ND	4.40	26.00	75.00	478-1465-2-ND	4,000	72.00/M	12065A5R6CAT2A
			6.8pF	±.25pF	0.94	478-1466-1-ND	4.40	26.00	75.00	478-1466-2-ND	4,000	72.00/M	12065A6R8CAT2A
			8.2pF	±.25pF	0.94	478-1467-1-ND	4.40	26.00	75.00	478-1467-2-ND	4,000	72.00/M	12065A8R2CAT2A
			10pF	±5%	0.94	478-1468-1-ND	4.18	24.70	71.25	478-1468-2-ND	4,000	68.00/M	12065A100JAT2A
			12pF	±5%	0.94	478-1469-1-ND	4.18	24.70	71.25	478-1469-2-ND	4,000	68.00/M	12065A120JAT2A
			15pF	±5%	0.94	478-1470-1-ND	4.18	24.70	71.25	478-1470-2-ND	4,000	68.00/M	12065A150JAT2A
			18pF	±5%	0.94	478-1471-1-ND	4.18	24.70	71.25	478-1471-2-ND	4,000	68.00/M	12065A180JAT2A
			22pF	±5%	0.94	478-1472-1-ND	4.18	24.70	71.25	478-1472-2-ND	4,000	68.00/M	12065A220JAT2A
			27pF	±5%	0.94	478-1473-1-ND	4.18	24.70	71.25	478-1473-2-ND	4,000	68.00/M	12065A270JAT2A
			33pF	±5%	0.94	478-1474-1-ND	4.18	24.70	71.25	478-1474-2-ND	4,000	68.00/M	12065A330JAT2A
			39pF	±5%	0.94	478-1475-1-ND	4.18	24.70	71.25	478-1475-2-ND	4,000	68.00/M	12065A390JAT2A
			47pF	±5%	0.94	478-1476-1-ND	4.18	24.70	71.25	478-1476-2-ND	4,000	68.00/M	12065A470JAT2A
			56pF	±5%	0.94	478-1477-1-ND	4.18	24.70	71.25	478-1477-2-ND	4,000	68.00/M	12065A560JAT2A
			68pF	±5%	0.94	478-1478-1-ND	4.18	24.70	71.25	478-1478-2-ND	4,000	68.00/M	12065A680JAT2A
			82pF	±5%	0.94	478-1479-1-ND	4.18	24.70	71.25	478-1479-2-ND	4,000	68.00/M	12065A820JAT2A
			100pF	±5%	0.94	478-1480-1-ND	4.18	24.70	71.25	478-1480-2-ND	4,000	68.00/M	12065A101JAT2A
			120pF	±5%	0.94	478-1481-1-ND	4.18	24.70	71.25	478-1481-2-ND	4,000	68.00/M	12065A121JAT2A
			150pF	±5%	0.94	478-1482-1-ND	5.17	30.55	88.13	478-1482-2-ND	4,000	85.00/M	12065A151JAT2A
			180pF	±5%	0.94	478-1483-1-ND	5.17	30.55	88.13	478-1483-2-ND	2,500	85.00/M	12065A181JAT2A
			220pF	±5%	0.94	478-1484-1-ND	5.17	30.55	88.13	478-1484-2-ND	4,000	85.00/M	12065A221JAT2A
			270pF	±5%	0.94	478-1485-1-ND	5.17	30.55	88.13	478-1485-2-ND	4,000	85.00/M	12065A271JAT2A
			330pF	±5%	0.94	478-1486-1-ND	5.17	30.55	88.13	478-1486-2-ND	4,000	85.00/M	12065A331JAT2A
			390pF	±5%	0.94	478-1487-1-ND	5.72	33.80	97.50	478-1487-2-ND	4,000	94.00/M	12065A391JAT2A
			470pF	±5%	0.94	478-1488-1-ND	5.72	33.80	97.50	478-1488-2-ND	4,000	94.00/M	12065A471JAT2A
			560pF	±5%	0.94	478-1489-1-ND	5.72	33.80	97.50	478-1489-2-ND	4,000	94.00/M	12065A561JAT2A
			680pF	±5%	0.94	478-1490-1-ND	5.72	33.80	97.50	478-1490-2-ND	4,000	94.00/M	12065A681JAT2A
			820pF	±5%	0.94	478-1491-1-ND	5.72	33.80	97.50	478-1491-2-ND	4,000	94.00/M	12065A821JAT2A
			1000pF	±5%	0.94	478-1492-1-ND	5.72	33.80	97.50	478-1492-2-ND	4,000	94.00/M	12065A102JAT2A
			1200pF	±5%	0.94	478-1493-1-ND	6.05	35.75	103.13	478-1493-2-ND	4,000	99.00/M	12065A122JAT2A
			1500pF	±5%	0.94	478-1494-1-ND	6.05	35.75	103.13	478-1494-2-ND	4,000	99.00/M	12065A152JAT2A
			1800pF	±5%	1.27	478-1495-1-ND	6.60	39.00	112.50	478-1495-2-ND	2,000	108.00/M	12065A182JAT2A
			2200pF	±5%	1.27	478-1496-1-ND	6.60	39.00	112.50	478-1496-2-ND	2,000	108.00/M	12065A222JAT2A
			2700pF	±5%	1.27	478-1497-1-ND	6.93	40.95	118.13	478-1497-2-ND	2,000	113.00/M	12065A272JAT2A
			3300pF	±5%	1.27	478-1498-1-ND	6.93	40.95	118.13	478-1498-2-ND	2,000	113.00/M	12065A332JAT2A
			3900pF	±5%	1.27	478-1499-1-ND	6.93	40.95	118.13	478-1499-2-ND	2,000	113.00/M	12065A392JAT2A
			4700pF	±5%	1.27	478-1500-1-ND	6.93	40.95	118.13	478-1500-2-ND	2,000	113.00/M	12065A472JAT2A
			5600pF	±5%	1.27	478-1501-1-ND	8.80	52.00	150.00	478-1501-2-ND	2,000	144.00/M	12065A562JAT2A
		25V	6800pF	±5%	1.27	478-1502-1-ND	9.35	55.25	159.38	478-1502-2-ND	2,000	153.00/M	12063A682JAT2A
			8200pF	±5%	1.27	478-1503-1-ND	9.35	55.25	159.38	478-1503-2-ND	2,000	153.00/M	12063A822JAT2A
			.01µF	±5%	1.27	478-1504-1-ND	9.35	55.25	159.38	478-1504-2-ND	2,000	153.00/M	12063A103JAT2A
	X7R	200V	1000pF	±10%	0.94	478-1505-1-ND	9.35	55.25	159.38	478-1505-2-ND	4,000	153.00/M	12062C102KAT2A
			1500pF	±10%	0.94	478-1506-1-ND	9.35	55.25	159.38	478-1506-2-ND	4,000	153.00/M	12062C152KAT2A
			2200pF	±10%	0.94	478-1507-1-ND	9.35	55.25	159.38	478-1507-2-ND	4,000	153.00/M	12062C222KAT2A
			3300pF	±10%	0.94	478-1508-1-ND	9.90	58.50	168.75	478-1508-2-ND	4,000	162.00/M	12062C332KAT2A
			4700pF	±10%	0.94	478-1509-1-ND	9.90	58.50	168.75	478-1509-2-ND	4,000	162.00/M	12062C472KAT2A
			6800pF	±10%	0.94	478-1510-1-ND	11.00	65.00	187.50	478-1510-2-ND	4,000	180.00/M	12062C682KAT2A
			.01µF	±10%	0.94	478-1511-1-ND	11.00	65.00	187.50	478-1511-2-ND	4,000	180.00/M	12062C103KAT2A
			.015µF	±10%	1.27	478-1512-1-ND	11.00	65.00	187.50	478-1512-2-ND	4,000	180.00/M	12062C153KAT2A
			.022µF	±10%	1.27	478-1513-1-ND	11.00	65.00	187.50	478-1513-2-ND	2,000	180.00/M	12062C223KAT2A
			.033µF	±10%	1.27	478-1514-1-ND	11.00	65.00	187.50	478-1514-2-ND	2,000	180.00/M	12062C333KAT2A
			.047µF	±10%	1.27	478-1515-1-ND	11.00	65.00	187.50	478-1515-2-ND	2,000	180.00/M	12062C473KAT2A
			.068µF	±10%	1.52	478-1516-1-ND	13.20	78.00	225.00	478-1516-2-ND	2,000	216.00/M	12062C683KAT2A
		100V	1000pF	±10%	0.94	478-1517-1-ND	8.25	48.75	140.63	478-1517-2-ND	4,000	135.00/M	12061C102KAT2A
			1500pF	±10%	0.94	478-1518-1-ND	8.25	48.75	140.63	478-1518-2-ND	4,000	135.00/M	12061C152KAT2A
			2200pF	±10%	0.94	478-1519-1-ND	8.25	48.75	140.63	478-1519-2-ND	4,000	135.00/M	12061C222KAT2A
			3300pF	±10%	0.94	478-1520-1-ND	8.25	48.75	140.63	478-1520-2-ND	4,000	135.00/M	12061C332KAT2A
			4700pF	±10%	0.94	478-1521-1-ND	8.25	48.75	140.63	478-1521-2-ND	4,000	135.00/M	12061C472KAT2A
			6800pF	±10%	0.94	478-1522-1-ND	8.25	48.75	140.63	478-1522-2-ND	4,000	135.00/M	12061C682KAT2A
			.01µF	±10%	0.94	478-1523-1-ND	8.25	48.75	140.63	478-1523-2-ND	4,000	135.00/M	12061C103KAT2A
			.015µF	±10%	0.94	478-1524-1-ND	8.25	48.75	140.63	478-1524-2-ND	4,000	135.00/M	12061C153KAT2A
			.022µF	±10%	0.94	478-1525-1-ND	8.25	48.75	140.63	478-1525-2-ND	4,000	135.00/M	12061C223KAT2A
			.033µF	±10%	0.94	478-1526-1-ND	8.25	48.75	140.63	478-1526-2-ND	4,000	135.00/M	12061C333KAT2A
			.047µF	±10%	0.94	478-1527-1-ND	8.25	48.75	140.63	478-1527-2-ND	4,000	135.00/M	12061C473KAT2A
			.068µF	±10%	0.94	478-1528-1-ND	8.25	48.75	140.63	478-1528-2-ND	4,000	135.00/M	12061C683KAT2A
			.10µF	±10%	1.27	478-1529-1-ND	8.80	52.00	150.00	478-1529-2-ND	2,000	144.00/M	12061C104KAT2A
		50V	1000pF	±10%	0.94	478-1530-1-ND	3.74	22.10	63.75	478-1530-2-ND	4,000	61.00/M	12065C102KAT2A
			1200pF	±10%	0.94	478-1531-1-ND	3.74	22.10	63.75	478-1531-2-ND	4,000	61.00/M	12065C122KAT2A
			1500pF	±10%	0.94	478-1532-1-ND	3.74	22.10	63.75	478-1532-2-ND	4,000	61.00/M	12065C152KAT2A
			1800pF	±10%	0.94	478-1533-1-ND	3.74	22.10	63.75	478-1533-2-ND	4,000	61.00/M	12065C182KAT2A
			2200pF	±10%	0.94	478-1534-1-ND	3.74	22.10	63.75	478-1534-2-ND	4,000	61.00/M	12065C222KAT2A
			2700pF	±10%	0.94	478-1535-1-ND	3.74	22.10	63.75	478-1535-2-ND	4,000	61.00/M	12065C272KAT2A
			3300pF	±10%	0.94	478-1536-1-ND	3.74	22.10	63.75	478-1536-2-ND	4,000	61.00/M	12065C332KAT2A
			3900pF	±10%	0.94	478-1537-1-ND	3.74	22.10	63.75	478-1537-2-ND	4,000	61.00/M	12065C392KAT2A
			4700pF	±10%	0.94	478-1538-1-ND	3.74	22.10	63.75	478-1538-2-ND	4,000	61.00/M	12065C472KAT2A
			5600pF	±10%	0.94	478-1539-1-ND	3.74	22.10	63.75	478-1539-2-ND	4,000	61.00/M	12065C562KAT2A
			6800pF	±10%	0.94	478-1540-1-ND	3.74	22.10	63.75	478-1540-2-ND	4,000	61.00/M	12065C682KAT2A
			8200pF	±10%	0.94	478-1541-1-ND	3.74	22.10	63.75	478-1541-2-ND	4,000	61.00/M	12065C822KAT2A
			.01µF	±10%	0.94	478-1542-1-ND	3.74	22.10	63.75	478-1542-2-ND	4,000	61.00/M	12065C103KAT2A
			.012µF	±10%	0.94	478-1543-1-ND	3.74	22.10	63.75	478-1543-2-ND	4,000	61.00/M	12065C123KAT2A
			.015µF	±10%	0.94	478-1544-1-ND	3.74	22.10	63.75	478-1544-2-ND	4,000	61.00/M	12065C153KAT2A
			.018µF	±10%	0.94	478-1545-1-ND	3.74	22.10	63.75	478-1545-2-ND	4,000	61.00/M	12065C183KAT2A
			.022µF	±10%	0.94	478-1546-1-ND	3.74	22.10	63.75	478-1546-2-ND	4,000	61.00/M	12065C223KAT2A
			.027µF	±10%	0.94	478-1547-1-ND	4.07	24.05	69.38	478-1547-2-ND	4,000	67.00/M	12065C273KAT2A
			.033µF	±10%	0.94	478-1548-1-ND	4.07	24.05	69.38	478-1548-2-ND	4,000	67.00/M	12065C333KAT2A
			.039µF	±10%	0.94	478-1549-1-ND	4.07	24.05	69.38	478-1549-2-ND	4,000	67.00/M	12065C393KAT2A
			.047µF	±10%	0.94	478-1550-1-ND	4.07	24.05	69.38	478-1550-2-ND	4,000	67.00/M	12065C473KAT2A

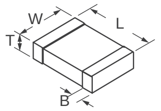
(Continued)

NEW! AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
1206	X7R	50V	.056µF	±10%	0.94	478-1551-1-ND	4.07	24.05	69.38	478-1551-2-ND	4,000	67.00/M	12065C563KAT2A
			.068µF	±10%	0.94	478-1553-1-ND	4.07	24.05	69.38	478-1553-2-ND	4,000	67.00/M	12065C683KAT2A
			.082µF	±10%	0.94	478-1555-1-ND	4.07	24.05	69.38	478-1555-2-ND	2,000	67.00/M	12065C823KAT2A
			.10µF	±10%	0.94	478-1556-1-ND	4.07	24.05	69.38	478-1556-2-ND	4,000	67.00/M	12065C104KAT2A
			.12µF	±10%	0.94	478-1557-1-ND	4.84	28.60	82.50	478-1557-2-ND	4,000	79.00/M	12065C124KAT2A
			.15µF	±10%	0.94	478-1558-1-ND	6.38	37.70	108.75	478-1558-2-ND	4,000	104.00/M	12065C154KAT2A
			.18µF	±10%	0.94	478-1559-1-ND	6.38	37.70	108.75	478-1559-2-ND	4,000	104.00/M	12065C184KAT2A
			.22µF	±10%	0.94	478-1560-1-ND	7.04	41.60	120.00	478-1560-2-ND	4,000	115.00/M	12065C224KAT2A
			.27µF	±10%	1.27	478-1561-1-ND	8.25	48.75	140.63	478-1561-2-ND	2,000	135.00/M	12065C274KAT2A
			.33µF	±10%	1.27	478-1562-1-ND	9.35	55.25	159.38	478-1562-2-ND	2,000	153.00/M	12065C334KAT2A
		25V	.47µF	±10%	1.27	478-1563-1-ND	11.55	68.25	196.88	478-1563-2-ND	2,000	189.00/M	12063C474KAT2A
			.56µF	±10%	1.78	478-1564-1-ND	11.55	68.25	196.88	478-1564-2-ND	2,000	189.00/M	12063C564KAT2A
			.68µF	±10%	1.78	478-1565-1-ND	12.10	71.50	206.25	478-1565-2-ND	2,500	198.00/M	12063C684KAT2A
			.82µF	±10%	1.78	478-1566-1-ND	12.10	71.50	206.25	478-1566-2-ND	2,500	198.00/M	12063C824KAT2A
			1µF	±10%	1.78	478-1567-1-ND	14.85	87.75	253.13	478-1567-2-ND	2,500	243.00/M	12063C105KAT2A
		10V	2.2µF	±10%	1.78	478-1568-1-ND	13.20	78.00	225.00	478-1568-2-ND	2,000	216.00/M	1206ZC225KAT2A
	X5R	25V	2.2µF	±10%	1.78	478-1569-1-ND	18.70	110.50	318.75	478-1569-2-ND	2,500	306.00/M	12063D225KAT2A
			4.7µF	±10%	1.78	478-1570-1-ND	22.00	130.00	375.00	478-1570-2-ND	2,000	360.00/M	12063D475KAT2A
		16V	2.2µF	±10%	1.78	478-1571-1-ND	19.25	113.75	328.13	478-1571-2-ND	2,000	315.00/M	1206YD225KAT2A
			4.7µF	±10%	1.78	478-1572-1-ND	20.35	120.25	346.88	478-1572-2-ND	4,000	333.00/M	1206YD475KAT2A
			10µF	±10%	1.78	478-1573-1-ND	29.15	172.25	496.88	478-1573-2-ND	2,500	477.00/M	1206YD106KAT2A
		10V	4.7µF	±10%	1.78	478-1574-1-ND	19.25	113.75	328.13	478-1574-2-ND	2,000	315.00/M	1206ZD475KAT2A
			10µF	±10%	1.78	478-1575-1-ND	27.50	162.50	468.75	478-1575-2-ND	2,500	450.00/M	1206ZD106KAT2A
		6.3V	22µF	±10%	1.78	478-1576-1-ND	28.05	165.75	478.13	478-1576-2-ND	2,500	459.00/M	12066D226KAT2A
	Y5V	50V	.10µF	+80 -20%	0.94	478-1577-1-ND	3.30	19.50	56.25	478-1577-2-ND	4,000	54.00/M	12065G104ZAT2A
			.22µF	+80 -20%	0.94	478-1578-1-ND	6.05	35.75	103.13	478-1578-2-ND	4,000	99.00/M	12065G224ZAT2A
			.47µF	+80 -20%	0.94	478-1579-1-ND	11.00	65.00	187.50	478-1579-2-ND	3,000	180.00/M	12065G474ZAT2A
			1µF	+80 -20%	0.94	478-1580-1-ND	12.65	74.75	215.63	478-1580-2-ND	4,000	207.00/M	12065G105ZAT2A
		25V	2.2µF	+80 -20%	1.27	478-1581-1-ND	17.05	100.75	290.63	478-1581-2-ND	3,000	279.00/M	12063G225ZAT2A
		16V	4.7µF	+80 -20%	1.52	478-1582-1-ND	21.45	126.75	365.63	478-1582-2-ND	3,000	351.00/M	1206YG475ZAT2A
		10V	10µF	+80 -20%	1.78	478-1583-1-ND	24.20	143.00	412.50	478-1583-2-ND	2,500	396.00/M	1206ZG106ZAT2A
1210	C0G (NP0)	200V	680pF	±5%	0.94	478-1584-1-ND	11.55	68.25	196.88	478-1584-2-ND	2,000	189.00/M	12102A681JAT2A
			1000pF	±5%	0.94	478-1585-1-ND	12.10	71.50	206.25	478-1585-2-ND	2,000	198.00/M	12102A102JAT2A
			1500pF	±5%	1.27	478-1586-1-ND	13.75	81.25	234.38	478-1586-2-ND	2,000	225.00/M	12102A152JAT2A
			2200pF	±5%	1.78	478-1587-1-ND	13.75	81.25	234.38	478-1587-2-ND	2,000	225.00/M	12102A222JAT2A
		100V	680pF	±5%	0.94	478-1588-1-ND	10.45	61.75	178.13	478-1588-2-ND	2,000	171.00/M	12101A681JAT2A
			1000pF	±5%	0.94	478-1589-1-ND	10.45	61.75	178.13	478-1589-2-ND	2,000	171.00/M	12101A102JAT2A
			1500pF	±5%	0.94	478-1590-1-ND	11.55	68.25	196.88	478-1590-2-ND	2,000	189.00/M	12101A152JAT2A
			2200pF	±5%	1.27	478-1591-1-ND	11.55	68.25	196.88	478-1591-2-ND	2,000	189.00/M	12101A222JAT2A
			3300pF	±5%	1.27	478-1592-1-ND	11.55	68.25	196.88	478-1592-2-ND	2,000	189.00/M	12101A332JAT2A
			4700pF	±5%	1.27	478-1593-1-ND	12.10	71.50	206.25	478-1593-2-ND	2,000	198.00/M	12101A472JAT2A
		50V	680pF	±5%	0.94	478-1594-1-ND	12.10	71.50	206.25	478-1594-2-ND	2,000	198.00/M	12105A681JAT2A
			1000pF	±5%	0.94	478-1595-1-ND	8.80	52.00	150.00	478-1595-2-ND	2,000	144.00/M	12105A102JAT2A
			1500pF	±5%	0.94	478-1596-1-ND	8.80	52.00	150.00	478-1596-2-ND	2,000	144.00/M	12105A152JAT2A
			2200pF	±5%	0.94	478-1597-1-ND	8.80	52.00	150.00	478-1597-2-ND	2,000	144.00/M	12105A222JAT2A
			3300pF	±5%	0.94	478-1598-1-ND	9.35	55.25	159.38	478-1598-2-ND	2,000	153.00/M	12105A332JAT2A
			4700pF	±5%	0.94	478-1599-1-ND	9.35	55.25	159.38	478-1599-2-ND	2,000	153.00/M	12105A472JAT2A
			6800pF	±5%	0.94	478-1600-1-ND	28.05	165.75	478.13	478-1600-2-ND	2,000	459.00/M	12105A682JAT2A
			.01µF	±5%	1.40	478-1601-1-ND	28.05	165.75	478.13	478-1601-2-ND	2,000	459.00/M	12105A103JAT2A
	X7R	100V	1000pF	±10%	0.94	478-1602-1-ND	10.45	61.75	178.13	478-1602-2-ND	2,000	171.00/M	12101C102KAT2A
			1500pF	±10%	0.94	478-1603-1-ND	10.45	61.75	178.13	478-1603-2-ND	2,000	171.00/M	12101C152KAT2A
			2200pF	±10%	0.94	478-1604-1-ND	10.45	61.75	178.13	478-1604-2-ND	2,000	171.00/M	12101C222KAT2A
			3300pF	±10%	0.94	478-1605-1-ND	10.45	61.75	178.13	478-1605-2-ND	2,000	171.00/M	12101C332KAT2A
			4700pF	±10%	0.94	478-1606-1-ND	10.45	61.75	178.13	478-1606-2-ND	2,000	171.00/M	12101C472KAT2A
			6800pF	±10%	0.94	478-1607-1-ND	10.45	61.75	178.13	478-1607-2-ND	2,000	171.00/M	12101C682KAT2A
			.01µF	±10%	0.94	478-1608-1-ND	10.45	61.75	178.13	478-1608-2-ND	2,000	171.00/M	12101C103KAT2A
			.015µF	±10%	0.94	478-1609-1-ND	10.45	61.75	178.13	478-1609-2-ND	2,000	171.00/M	12101C153KAT2A
			.022µF	±10%	0.94	478-1610-1-ND	10.45	61.75	178.13	478-1610-2-ND	2,000	171.00/M	12101C223KAT2A
			.033µF	±10%	0.94	478-1611-1-ND	10.45	61.75	178.13	478-1611-2-ND	2,000	171.00/M	12101C333KAT2A
			.047µF	±10%	0.94	478-1612-1-ND	10.45	61.75	178.13	478-1612-2-ND	2,000	171.00/M	12101C473KAT2A
			.068µF	±10%	0.94	478-1613-1-ND	10.45	61.75	178.13	478-1613-2-ND	2,000	171.00/M	12101C683KAT2A
			.10µF	±10%	0.94	478-1614-1-ND	11.00	65.00	187.50	478-1614-2-ND	2,000	180.00/M	12101C104KAT2A
			.15µF	±10%	1.27	478-1615-1-ND	13.75	81.25	234.38	478-1615-2-ND	2,000	225.00/M	12101C154KAT2A
			.22µF	±10%	1.52	478-1616-1-ND	13.75	81.25	234.38	478-1616-2-ND	2,000	225.00/M	12101C224KAT2A
		50V	.10µF	±10%	0.94	478-1617-1-ND	8.80	52.00	150.00	478-1617-2-ND	2,000	144.00/M	12105C104KAT2A
			.15µF	±10%	0.94	478-1618-1-ND	10.45	61.75	178.13	478-1618-2-ND	2,000	171.00/M	12105C154KAT2A
			.22µF	±10%	0.94	478-1619-1-ND	12.10	71.50	206.25	478-1619-2-ND	2,000	198.00/M	12105C224KAT2A
			.33µF	±10%	0.94	478-1620-1-ND	14.30	84.50	243.75	478-1620-2-ND	2,000	234.00/M	12105C334KAT2A
			.47µF	±10%	1.27	478-1621-1-ND	18.70	110.50	318.75	478-1621-2-ND	2,000	306.00/M	12105C474KAT2A
			1µF	±10%	2.29	478-1622-1-ND	19.25	113.75	328.13	478-1622-2-ND	2,000	315.00/M	12105C105KAT2A
		25V	2.2µF	±10%	2.29	478-1623-1-ND	21.45	126.75	365.63	478-1623-2-ND	2,000	351.00/M	12103C225KAT2A
		16V	4.7µF	±10%	2.79	478-1624-1-ND	23.65	139.75	403.13	478-1624-2-ND	2,000	387.00/M	1210YC475KAT2A
		10V	10µF	±10%	2.79	478-1625-1-ND	29.15	172.25	496.88	478-1625-2-ND	2,000	477.00/M	1210ZC106KAT2A
	X5R	25V	4.7µF	±10%	2.79	478-1626-1-ND	24.20	143.00	412.50	478-1626-2-ND	2,000	396.00/M	12103D475KAT2A
			10µF	±10%	2.29	478-1627-1-ND	25.30	149.50	431.25	478-1627-2-ND	2,000	414.00/M	12103D106KAT2A
		16V	4.7µF	±10%	1.78	478-1628-1-ND	23.10	136.50	393.75	478-1628-2-ND	2,000	378.00/M	1210YD475KAT2A
			10µF	±10%	2.29	478-1629-1-ND	29.70	175.50	506.25	478-1629-2-ND	2,000	486.00/M	1210YD106KAT2A
			22µF	±10%	2.79	478-1630-1-ND	46.75	276.25	796.88	478-1630-2-ND	2,000	765.00/M	1210YD226KAT2A
		10V	10µF	±10%	2.29	478-1631-1-ND	22.55	133.25	384.38	478-1631-2-ND	2,000	369.00/M	1210ZD106KAT2A
			22µF	±10%	2.79	478-1632-1-ND	43.45	256.75	740.63	478-1632-2-ND	2,000	711.00/M	1210ZD226KAT2A
		6.3V	47µF	±10%	2.79	478-1633-1-ND	78.10	461.50	1331.25	478-1633-2-ND	2,000	1278.00/M	12106D476KAT2A
	Y5V	16V	10µF	+80 -20%	1.78	478-1634-1-ND	29.70	175.50	506.25	478-1634-2-ND	2,000	486.00/M	1210YG106ZAT2A
		10V	22µF	+80 -20%	2.29	478-1635-1-ND	43.45	256.75	740.63	478-1635-2-ND	2,000	711.00/M	1210ZG226ZAT2A
1812	NP0	50V	.01µF	±5%	1.52	478-1636-1-ND	41.25	243.75	703.13	478-1636-2-ND	1,000	675.00	18125A103JAT2A
			.015µF	±5%	1.52	478-1637-1-ND	41.25	243.75	703.13	478-1637-2-ND	1,000	675.00	18125A153JAT2A
		25V	.022µF	±5%	1.52	478-1638-1-ND	46.75	276.25	796.88	478-1638-2-ND	1,000	765.00	18123A223JAT2A
			.033µF	±5%	3.175	478-1639-1-ND	46.75	276.25	796.88	478-1639-2-ND	1,000	765.00	18123A333JAT2A
	X7R	100V	.22µF	±10%	1.02	478-1640-1-ND	18.70	110.50	318.75	478-1640-2-ND	1,000	306.00	18121C224KAT2A
			.47µF	±10%	1.02	478-1641-1-ND	26.95	159.25	459.38	478-1641-2-ND	1,000	441.00	18121C474KAT2A
			1µF	±10%	2.29	478-1642-1-ND	33.55	198.25	—	478-1642-2-ND	700	384.30	18121C105KAT2A
		50V	1µF	±10%	1.27	478-1643-1-ND	28.05	165.75	478.13	478-1643-2-ND	1,000	459.00	18125C105KAT2A
	X5R	25V	10µF	±10%	2.79	478-1644-1-ND	45.65	269.75	—	478-1644-2-ND	500	373.50	18123D106KAT2A
		10V	22µF	±10%	2.79	478-1645-1-ND	45.65	269.75	—	478-1645-2-ND	500	373.50	1812ZD226KAT2A
		6.3V	47µF	±10%	2.79	478-1646-1-ND	107.25	633.75	—	478-1646-2-ND	500	877.50	18126D476KAT2A
			100µF	±10%	3.05	478-1647-1-ND	132.00	780.00	—	478-1647-2-ND	500	1080.00	18126D107KAT2A

KEMET Multilayer Ceramic Chip Capacitors

KEMET multilayer ceramic chip capacitors are produced in plants designed specifically for chip capacitor manufacture. The process features a high degree of mechanization as well as precise controls over raw materials and process conditions. Manufacturing is supplemented by extensive technology, Engineering and Quality Assurance programs. Standard end terminations use a nickel barrier layer and a tin overplate to provide excellent solderability.



Size Code (EIA)	L	W	B	T (Max.)
0402	1.00±0.05	0.50±0.05	0.20 – 0.40	.55
0603	1.60±0.15	0.80±0.15	0.35±0.15	.9
0805	2.00±0.20	1.25±0.20	0.50±0.25	1.45
1206	3.20±0.20	1.60±0.20	0.50±0.25	1.8
1210	3.20±0.20	2.50±0.20	0.50±0.25	2.7

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
						10	100	500		Size	Pricing	
0402	C0G (NP0)	50	.5pF	±0.25pF	399-1000-1-ND	3.88	22.95	66.19	399-1000-2-ND	10,000	64.00/M	C0402C508C5GACTU
		50	1.2pF	±0.25pF	399-1001-1-ND	.61	3.58	10.31	399-1001-2-ND	10,000	10.00/M	C0402C129C5GACTU
		50	1.5pF	±0.25pF	399-1002-1-ND	.61	3.58	10.31	399-1002-2-ND	10,000	10.00/M	C0402C159C5GACTU
		50	1.8pF	±0.25pF	399-1003-1-ND	.61	3.58	10.31	399-1003-2-ND	10,000	10.00/M	C0402C189C5GACTU
		50	2.0pF	±0.25pF	399-1004-1-ND	4.09	24.18	69.75	399-1004-2-ND	10,000	67.00/M	C0402C209C5GACTU
		50	2.7pF	±0.25pF	399-1005-1-ND	.61	3.58	10.31	399-1005-2-ND	10,000	10.00/M	C0402C279C5GACTU
		50	3.0pF	±0.25pF	399-1006-1-ND	4.09	24.18	69.75	399-1006-2-ND	10,000	67.00/M	C0402C309C5GACTU
		50	3.3pF	±0.25pF	399-1007-1-ND	.61	3.58	10.31	399-1007-2-ND	10,000	10.00/M	C0402C339C5GACTU
		50	5.6pF	±0.5pF	399-1008-1-ND	3.41	20.15	58.13	399-1008-2-ND	10,000	56.00/M	C0402C569D5GACTU
		50	8.2pF	±0.5pF	399-1009-1-ND	3.41	20.15	58.13	399-1009-2-ND	10,000	56.00/M	C0402C829D5GACTU
		50	9.1pF	±0.5pF	399-1010-1-ND	4.09	24.18	69.75	399-1010-2-ND	10,000	67.00/M	C0402C919D5GACTU
		50	10pF	±5%	399-1011-1-ND	.50	2.93	8.44	399-1011-2-ND	10,000	8.00/M	C0402C100J5GACTU
		50	11pF	±5%	399-1012-1-ND	4.62	27.30	78.75	399-1012-2-ND	10,000	76.00/M	C0402C110J5GACTU
		50	12pF	±5%	399-1013-1-ND	.53	3.12	9.00	399-1013-2-ND	10,000	9.00/M	C0402C120J5GACTU
		50	15pF	±5%	399-1014-1-ND	.53	3.12	9.00	399-1014-2-ND	10,000	9.00/M	C0402C150J5GACTU
		50	22pF	±5%	399-1015-1-ND	.53	3.12	9.00	399-1015-2-ND	10,000	9.00/M	C0402C220J5GACTU
		50	27pF	±5%	399-1016-1-ND	.53	3.12	9.00	399-1016-2-ND	10,000	9.00/M	C0402C270J5GACTU
		50	33pF	±5%	399-1017-1-ND	.53	3.12	9.00	399-1017-2-ND	10,000	9.00/M	C0402C330J5GACTU
		50	39pF	±5%	399-1018-1-ND	.53	3.12	9.00	399-1018-2-ND	10,000	9.00/M	C0402C390J5GACTU
		50	47pF	±5%	399-1019-1-ND	.53	3.12	9.00	399-1019-2-ND	10,000	9.00/M	C0402C470J5GACTU
		50	56pF	±5%	399-1020-1-ND	.53	3.12	9.00	399-1020-2-ND	10,000	9.00/M	C0402C560J5GACTU
		25	82pF	±5%	399-1021-1-ND	3.85	22.75	65.63	399-1021-2-ND	10,000	63.00/M	C0402C820J3GACTU
		25	100pF	±5%	399-1022-1-ND	.53	3.12	9.00	399-1022-2-ND	10,000	9.00/M	C0402C101J3GACTU
	X7R	50	220pF	±10%	399-1030-1-ND	4.07	24.05	69.38	399-1030-2-ND	10,000	67.00/M	C0402C221K5RACTU
		50	330pF	±10%	399-1023-1-ND	4.07	24.05	69.38	399-1023-2-ND	10,000	67.00/M	C0402C331K5RACTU
		50	470pF	±10%	399-1025-1-ND	4.07	24.05	69.38	399-1025-2-ND	10,000	67.00/M	C0402C471K5RACTU
		50	560pF	±10%	399-1026-1-ND	.73	4.29	12.38	399-1026-2-ND	10,000	12.00/M	C0402C561K5RACTU
		50	680pF	±10%	399-1027-1-ND	.73	4.29	12.38	399-1027-2-ND	10,000	12.00/M	C0402C681K5RACTU
		50	1000pF	±10%	399-1032-1-ND	.55	3.25	9.38	399-1032-2-ND	10,000	9.00/M	C0402C102K5RACTU
		50	1200pF	±10%	399-1028-1-ND	.73	4.29	12.38	399-1028-2-ND	10,000	12.00/M	C0402C122K5RACTU
		50	1500pF	±10%	399-1029-1-ND	4.07	24.05	69.38	399-1029-2-ND	10,000	67.00/M	C0402C152K5RACTU
		50	1800pF	±10%	399-3067-1-ND	4.07	24.05	69.38	399-3067-2-ND	10,000	67.00/M	C0402C182K5RACTU
		50	2200pF	±10%	399-3068-1-ND	4.07	24.05	69.38	399-3068-2-ND	10,000	67.00/M	C0402C222K5RACTU
		50	2700pF	±10%	399-3069-1-ND	4.07	24.05	69.38	399-3069-2-ND	10,000	67.00/M	C0402C272K5RACTU
		50	3300pF	±10%	399-3070-1-ND	4.07	24.05	69.38	399-3070-2-ND	10,000	67.00/M	C0402C332K5RACTU
		50	3900pF	±10%	399-3071-1-ND	4.07	24.05	69.38	399-3071-2-ND	10,000	67.00/M	C0402C392K5RACTU
		50	4700pF	±10%	399-3072-1-ND	4.07	24.05	69.38	399-3072-2-ND	10,000	67.00/M	C0402C472K5RACTU
		50	5600pF	±10%	399-3073-1-ND	2.44	14.43	41.63	399-3073-2-ND	10,000	40.00/M	C0402C562K5RACTU
		50	6800pF	±10%	399-3074-1-ND	2.44	14.43	41.63	399-3074-2-ND	10,000	40.00/M	C0402C682K5RACTU
		50	8200pF	±10%	399-3075-1-ND	2.44	14.43	41.63	399-3075-2-ND	10,000	40.00/M	C0402C822K5RACTU
		50	10000pF	±10%	399-3066-1-ND	2.31	13.65	39.38	399-3066-2-ND	10,000	38.00/M	C0402C103K5RACTU
		25	470pF	±10%	399-1024-1-ND	4.07	24.05	69.38	399-1024-2-ND	10,000	67.00/M	C0402C471K3RACTU
		25	1000pF	±10%	399-1031-1-ND	3.85	22.75	65.63	399-1031-2-ND	10,000	63.00/M	C0402C102K3RACTU
		25	2200pF	±10%	399-1033-1-ND	.63	3.71	10.69	399-1033-2-ND	10,000	10.00/M	C0402C222K3RACTU
		25	3900pF	±10%	399-1034-1-ND	.55	3.25	9.38	399-1034-2-ND	10,000	9.00/M	C0402C392K3RACTU
		25	4700pF	±10%	399-1035-1-ND	.55	3.25	9.38	399-1035-2-ND	10,000	9.00/M	C0402C472K3RACTU
		25	5600pF	±10%	399-1276-1-ND	2.44	14.43	41.63	399-1276-2-ND	10,000	40.00/M	C0402C562K3RACTU
		25	8200pF	±10%	399-1277-1-ND	2.44	14.43	41.63	399-1277-2-ND	10,000	40.00/M	C0402C822K3RACTU
		25	10000pF	±5%	399-1279-1-ND	5.39	31.85	91.88	399-1279-2-ND	10,000	88.00/M	C0402C103J3RACTU
		25	10000pF	±10%	399-1278-1-ND	.55	3.25	9.38	399-1278-2-ND	10,000	9.00/M	C0402C103K3RACTU
		16	5600pF	±10%	399-1036-1-ND	4.07	24.05	69.38	399-1036-2-ND	10,000	67.00/M	C0402C562K4RACTU
		16	8200pF	±10%	399-1037-1-ND	4.07	24.05	69.38	399-1037-2-ND	10,000	67.00/M	C0402C822K4RACTU
		16	10000pF	±5%	399-1039-1-ND	5.39	31.85	91.88	399-1039-2-ND	10,000	88.00/M	C0402C103J4RACTU
		16	10000pF	±10%	399-1038-1-ND	.55	3.25	9.38	399-1038-2-ND	10,000	9.00/M	C0402C103K4RACTU
	X5R	10	12000pF	±10%	399-3009-1-ND	2.31	13.65	39.38	399-3009-2-ND	10,000	38.00/M	C0402C123K8PACTU
		10	15000pF	±10%	399-3011-1-ND	2.31	13.65	39.38	399-3011-2-ND	10,000	38.00/M	C0402C153K8PACTU
		10	18000pF	±10%	399-3013-1-ND	2.31	13.65	39.38	399-3013-2-ND	10,000	38.00/M	C0402C183K8PACTU
		10	22000pF	±10%	399-3015-1-ND	2.42	14.30	41.25	399-3015-2-ND	10,000	40.00/M	C0402C223K8PACTU
		10	27000pF	±10%	399-3017-1-ND	2.42	14.30	41.25	399-3017-2-ND	10,000	40.00/M	C0402C273K8PACTU
		10	33000pF	±10%	399-3019-1-ND	2.53	14.95	43.13	399-3019-2-ND	10,000	41.00/M	C0402C333K8PACTU
		10	47000pF	±10%	399-3021-1-ND	2.64	15.60	45.00	399-3021-2-ND	10,000	43.00/M	C0402C473K8PACTU
		10	68000pF	±10%	399-3023-1-ND	2.75	16.25	46.88	399-3023-2-ND	10,000	45.00/M	C0402C683K8PACTU
		10	.1µF	±10%	399-3027-1-ND	.83	4.88	14.06	399-3027-2-ND	10,000	14.00/M	C0402C104K8PACTU
		6.3	12000pF	±10%	399-3008-1-ND	2.31	13.65	39.38	399-3008-2-ND	10,000	38.00/M	C0402C123K9PACTU
		6.3	15000pF	±10%	399-3010-1-ND	2.31	13.65	39.38	399-3010-2-ND	10,000	38.00/M	C0402C153K9PACTU
		6.3	18000pF	±10%	399-3012-1-ND	2.31	13.65	39.38	399-3012-2-ND	10,000	38.00/M	C0402C183K9PACTU
		6.3	22000pF	±10%	399-3014-1-ND	2.42	14.30	41.25	399-3014-2-ND	10,000	40.00/M	C0402C223K9PACTU
		6.3	27000pF	±10%	399-3016-1-ND	2.42	14.30	41.25	399-3016-2-ND	10,000	40.00/M	C0402C273K9PACTU
		6.3	33000pF	±10%	399-3018-1-ND	2.53	14.95	43.13	399-3018-2-ND	10,000	41.00/M	C0402C333K9PACTU
		6.3	47000pF	±10%	399-3020-1-ND	2.64	15.60	45.00	399-3020-2-ND	10,000	43.00/M	C0402C473K9PACTU
		6.3	68000pF	±10%	399-3022-1-ND	2.75	16.25	46.88	399-3022-2-ND	10,000	45.00/M	C0402C683K9PACTU
		6.3	.1µF	±10%	399-3026-1-ND	2.86	16.90	48.75	399-3026-2-ND	10,000	47.00/M	C0402C104K9PACTU
0603	C0G (NP0)	50	.5pF	±0.25pF	399-1044-1-ND	4.88	28.86	83.25	399-1044-2-ND	4,000	80.00/M	C0603C508C5GACTU
		50	1.0pF	±0.25pF	399-1045-1-ND	4.07	24.05	69.38	399-1045-2-ND	4,000	67.00/M	C0603C109C5GACTU
		50	1.5pF	±0.25pF	399-1046-1-ND	4.07	24.05	69.38	399-1046-2-ND	4,000	67.00/M	C0603C159C5GACTU
		50	2.0pF	±0.25pF	399-1047-1-ND	4.88	28.86	83.25	399-1047-2-ND	4,000	80.00/M	C0603C209C5GACTU
		50	3.0pF	±0.25pF	399-1048-1-ND	4.88	28.86	83.25	399-1048-2-ND	4,000	80.00/M	C0603C309C5GACTU
		50	10pF	±5%	399-1049-1-ND	.72	4.23	12.19	399-1049-2-ND	4,000	12.00/M	C0603C100J5GACTU
		50	12pF	±5%	399-1050-1-ND	2.31	13.65	39.38	399-1050-2-ND	4,000	38.00/M	C0603C120J5GACTU
		50	15pF	±5%	399-1051-1-ND	.72	4.23	12.19	399-1051-2-ND	4,000	12.00/M	C0603C150J5GACTU
		50	18pF	±5%	399-1052-1-ND	2.31	13.65	39.38	399-1052-2-ND	4,000	38.00/M	C0603C180J5GACTU
		50	22pF	±5%	399-1053-1-ND	.72	4.23	12.19	399-1053-2-ND	4,000	12.00/M	C0603C220J5GACTU
		50	27pF	±5%	399-1054-1-ND	.72	4.23	12.19	399-1054-2-ND	4,000	12.00/M	C0603C270J5GACTU
		50	33pF	±5%	399-1055-1-ND	2.31	13.65	39.38	399-1055-2-ND	4,000	38.00/M	C0603C330J5GACTU
		50	47pF	±5%	399-1056-1-ND	.72	4.23	12.19	399-1056-2-ND	4,000	12.00/M	C0603C470J5GACTU
		50	56pF	±5%	399-1057-1-ND	2.31	13.65	39.38	399-1057-2-ND	4,000	38.00/M	C0603C560J5GACTU
		50	68pF	±5%	399-1058-1-ND	2.31	13.65	39.38	399-1058-2-ND	4,000	38.00/M	C0603C680J5GACTU
		50	82pF	±5%	399-1060-1-ND	2.31	13.65	39.38	399-1060-2-ND	4,000	38.00/M	C0603C820J5GACTU
		50	82pF	±10%	399-1059-1-ND	2.20	13.00	37.50	399-1059-2-ND	4,000	36.00/M	C0603C820K5GACTU
		50	100pF	±5%	399-1061-1-ND	.72	4.23	12.19	399-1061-2-ND	4,000	12.00/M	C0603C101J5GACTU
		50	120pF	±5%	399-1062-1-ND	2.53	14.95	43.13	399-1062-2-ND	4,000	41.00/M	C0603C121J5GACTU
		50	150pF	±5%	399-1063-1-ND	1.10	6.50	18.75	399-1063-2-ND	4,000	18.00/M	C0603C151J5GACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

KEMET

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
						10	100	500		Size	Pricing	
0603	C0G (NP0)	50	180pF	±5%	399-1064-1-ND	.97	5.72	16.50	399-1064-2-ND	4,000	16.00/M	C0603C181J5GACTU
		50	220pF	±5%	399-1066-1-ND	.97	5.72	16.50	399-1066-2-ND	4,000	16.00/M	C0603C221J5GACTU
		50	220pF	±10%	399-1065-1-ND	2.64	15.60	45.00	399-1065-2-ND	4,000	43.00/M	C0603C221K5GACTU
		50	270pF	±5%	399-1067-1-ND	.88	5.20	15.00	399-1067-2-ND	4,000	14.00/M	C0603C271J5GACTU
		50	330pF	±5%	399-1068-1-ND	2.97	17.55	50.63	399-1068-2-ND	4,000	49.00/M	C0603C331J5GACTU
		50	390pF	±5%	399-1069-1-ND	2.97	17.55	50.63	399-1069-2-ND	4,000	49.00/M	C0603C391J5GACTU
	X7R	50	220pF	±10%	399-1071-1-ND	.77	4.55	13.13	399-1071-2-ND	4,000	13.00/M	C0603C221K5RACTU
		50	220pF	±20%	399-1070-1-ND	2.75	16.25	46.88	399-1070-2-ND	4,000	45.00/M	C0603C221M5RACTU
		50	270pF	±10%	399-1072-1-ND	2.86	16.90	48.75	399-1072-2-ND	4,000	47.00/M	C0603C271K5RACTU
		50	330pF	±10%	399-1073-1-ND	2.86	16.90	48.75	399-1073-2-ND	4,000	47.00/M	C0603C331K5RACTU
		50	390pF	±10%	399-1074-1-ND	2.86	16.90	48.75	399-1074-2-ND	4,000	47.00/M	C0603C391K5RACTU
		50	470pF	±10%	399-1075-1-ND	.66	3.90	11.25	399-1075-2-ND	4,000	11.00/M	C0603C471K5RACTU
		50	560pF	±10%	399-1076-1-ND	2.86	16.90	48.75	399-1076-2-ND	4,000	47.00/M	C0603C561K5RACTU
		50	680pF	±10%	399-1077-1-ND	2.86	16.90	48.75	399-1077-2-ND	4,000	47.00/M	C0603C681K5RACTU
		50	820pF	±10%	399-1078-1-ND	2.86	16.90	48.75	399-1078-2-ND	4,000	47.00/M	C0603C821K5RACTU
		50	1000pF	±5%	399-1083-1-ND	.80	4.75	13.69	399-1083-2-ND	4,000	13.00/M	C0603C102J5RACTU
		50	1000pF	±10%	399-1082-1-ND	.53	3.12	9.00	399-1082-2-ND	4,000	9.00/M	C0603C102K5RACTU
		50	1500pF	±10%	399-1084-1-ND	2.86	16.90	48.75	399-1084-2-ND	4,000	47.00/M	C0603C152K5RACTU
		50	2200pF	±10%	399-1085-1-ND	.64	3.77	10.88	399-1085-2-ND	4,000	10.00/M	C0603C222K5RACTU
		50	3300pF	±10%	399-1086-1-ND	2.86	16.90	48.75	399-1086-2-ND	4,000	47.00/M	C0603C332K5RACTU
		50	4700pF	±5%	399-1088-1-ND	4.29	25.35	73.13	399-1088-2-ND	4,000	70.00/M	C0603C472J5RACTU
		50	4700pF	±10%	399-1087-1-ND	2.86	16.90	48.75	399-1087-2-ND	4,000	47.00/M	C0603C472K5RACTU
		50	6800pF	±5%	399-1090-1-ND	4.29	25.35	73.13	399-1090-2-ND	4,000	70.00/M	C0603C682J5RACTU
		50	6800pF	±10%	399-1089-1-ND	2.86	16.90	48.75	399-1089-2-ND	4,000	47.00/M	C0603C682K5RACTU
		50	10000pF	±5%	399-1092-1-ND	.80	4.75	13.69	399-1092-2-ND	4,000	13.00/M	C0603C103J5RACTU
		50	10000pF	±10%	399-1091-1-ND	.42	2.47	7.13	399-1091-2-ND	4,000	7.00/M	C0603C103K5RACTU
		50	22000pF	±10%	399-1280-1-ND	3.19	18.85	54.38	399-1280-2-ND	4,000	52.00/M	C0603C223K5RACTU
		25	22000pF	±10%	399-1094-1-ND	2.31	13.65	39.38	399-1094-2-ND	4,000	38.00/M	C0603C223K3RACTU
		25	.10µF	±5%	399-1282-1-ND	4.62	27.30	78.75	399-1282-2-ND	4,000	76.00/M	C0603C104J3RACTU
		25	.10µF	±10%	399-1281-1-ND	1.18	6.96	20.06	399-1281-2-ND	4,000	19.00/M	C0603C104K3RACTU
		25	.10µF	±20%	399-1283-1-ND	3.23	19.11	55.13	399-1283-2-ND	4,000	53.00/M	C0603C104M3RACTU
		16	22000pF	±10%	399-1093-1-ND	2.31	13.65	39.38	399-1093-2-ND	4,000	38.00/M	C0603C223K4RACTU
		16	.10µF	±5%	399-1097-1-ND	.83	4.88	14.06	399-1097-2-ND	4,000	14.00/M	C0603C104J4RACTU
		16	.10µF	±10%	399-1096-1-ND	.55	3.25	9.38	399-1096-2-ND	4,000	9.00/M	C0603C104K4RACTU
		16	.10µF	±20%	399-1099-1-ND	.55	3.25	9.38	399-1099-2-ND	4,000	9.00/M	C0603C104M4RACTU
		10	.10µF	±10%	399-1095-1-ND	.88	5.20	15.00	399-1095-2-ND	4,000	14.00/M	C0603C104K8RACTU
	X5R	10	.27µF	±10%	399-3111-1-ND *NEW!*	2.60	15.34	44.25	399-3111-2-ND *NEW!*	4,000	42.00/M	C0603C274K8PACTU
		10	.33µF	±10%	399-3112-1-ND *NEW!*	2.60	15.34	44.25	399-3112-2-ND *NEW!*	4,000	42.00/M	C0603C334K8PACTU
		10	.39µF	±10%	399-3113-1-ND *NEW!*	2.60	15.34	44.25	399-3113-2-ND *NEW!*	4,000	42.00/M	C0603C394K8PACTU
		10	.47µF	±10%	399-3114-1-ND *NEW!*	2.60	15.34	44.25	399-3114-2-ND *NEW!*	4,000	42.00/M	C0603C474K8PACTU
		10	.56µF	±10%	399-3115-1-ND *NEW!*	2.60	15.34	44.25	399-3115-2-ND *NEW!*	4,000	42.00/M	C0603C564K8PACTU
		10	.68µF	±10%	399-3116-1-ND *NEW!*	2.60	15.34	44.25	399-3116-2-ND *NEW!*	4,000	42.00/M	C0603C684K8PACTU
		10	.82µF	±10%	399-3117-1-ND *NEW!*	2.60	15.34	44.25	399-3117-2-ND *NEW!*	4,000	42.00/M	C0603C824K8PACTU
		10	1.0µF	±10%	399-3118-1-ND *NEW!*	2.26	13.33	38.44	399-3118-2-ND *NEW!*	4,000	37.00/M	C0603C105K8PACTU
	Y5V	25	.10µF	+80%, -20%	399-1100-1-ND	.55	3.25	9.38	399-1100-2-ND	4,000	9.00/M	C0603C104Z3VACTU
		25	.10µF	±20%	399-1101-1-ND	.61	3.58	10.31	399-1101-2-ND	4,000	10.00/M	C0603C104M3VACTU
		25	.15µF	+80%, -20%	399-1290-1-ND	2.90	17.16	49.50	399-1290-2-ND	4,000	48.00/M	C0603C154Z3VACTU
		25	.22µF	+80%, -20%	399-1103-1-ND	3.10	18.33	52.88	399-1103-2-ND	4,000	51.00/M	C0603C224Z3VACTU
		25	.33µF	+80%, -20%	399-1292-1-ND	3.41	20.15	58.13	399-1292-2-ND	4,000	56.00/M	C0603C334Z3VACTU
		16	.10µF	+80%, -20%	399-1098-1-ND	.55	3.25	9.38	399-1098-2-ND	4,000	9.00/M	C0603C104Z4VACTU
		16	.15µF	+80%, -20%	399-1289-1-ND	2.83	16.71	48.19	399-1289-2-ND	4,000	46.00/M	C0603C154Z4VACTU
		16	.22µF	+80%, -20%	399-1102-1-ND	1.07	6.31	18.19	399-1102-2-ND	4,000	17.00/M	C0603C224Z4VACTU
		16	.33µF	+80%, -20%	399-1291-1-ND	2.97	17.55	50.63	399-1291-2-ND	4,000	49.00/M	C0603C334Z4VACTU
0805	C0G (NP0)	100	10pF	±5%	399-1109-1-ND	1.21	7.15	20.63	399-1109-2-ND	4,000	20.00/M	C0805C100J1GACTU
		100	100pF	±5%	399-1123-1-ND	1.21	7.15	20.63	399-1123-2-ND	4,000	20.00/M	C0805C101J1GACTU
		100	220pF	±5%	399-1128-1-ND	3.08	18.20	52.50	399-1128-2-ND	4,000	50.00/M	C0805C221J1GACTU
		100	330pF	±5%	399-1131-1-ND	1.21	7.15	20.63	399-1131-2-ND	4,000	20.00/M	C0805C331J1GACTU
		100	1000pF	±5%	399-1137-1-ND	4.07	24.05	69.38	399-1137-2-ND	2,500	67.00/M	C0805C102J1GACTU
		50	1.0pF	±0.25pF	399-1104-1-ND	3.85	22.75	65.63	399-1104-2-ND	4,000	63.00/M	C0805C109C5GACTU
		50	1.5pF	±0.25pF	399-1105-1-ND	3.85	22.75	65.63	399-1105-2-ND	4,000	63.00/M	C0805C159C5GACTU
		50	2.0pF	±0.25pF	399-1106-1-ND	4.62	27.30	78.75	399-1106-2-ND	4,000	76.00/M	C0805C209C5GACTU
		50	3.0pF	±0.25pF	399-1107-1-ND	4.62	27.30	78.75	399-1107-2-ND	4,000	76.00/M	C0805C309C5GACTU
		50	10pF	±5%	399-1108-1-ND	.97	5.72	16.50	399-1108-2-ND	4,000	16.00/M	C0805C100J5GACTU
		50	12pF	±5%	399-1110-1-ND	.97	5.72	16.50	399-1110-2-ND	4,000	16.00/M	C0805C120J5GACTU
		50	15pF	±5%	399-1111-1-ND	.97	5.72	16.50	399-1111-2-ND	4,000	16.00/M	C0805C150J5GACTU
		50	18pF	±5%	399-1112-1-ND	.97	5.72	16.50	399-1112-2-ND	4,000	16.00/M	C0805C180J5GACTU
		50	22pF	±5%	399-1113-1-ND	.97	5.72	16.50	399-1113-2-ND	4,000	16.00/M	C0805C220J5GACTU
		50	27pF	±5%	399-1114-1-ND	.97	5.72	16.50	399-1114-2-ND	4,000	16.00/M	C0805C270J5GACTU
		50	33pF	±5%	399-1115-1-ND	.97	5.72	16.50	399-1115-2-ND	4,000	16.00/M	C0805C330J5GACTU
		50	39pF	±5%	399-1116-1-ND	2.20	13.00	37.50	399-1116-2-ND	4,000	36.00/M	C0805C390J5GACTU
		50	47pF	±5%	399-1117-1-ND	.97	5.72	16.50	399-1117-2-ND	4,000	16.00/M	C0805C470J5GACTU
		50	56pF	±5%	399-1118-1-ND	.97	5.72	16.50	399-1118-2-ND	4,000	16.00/M	C0805C560J5GACTU
		50	68pF	±5%	399-1119-1-ND	.97	5.72	16.50	399-1119-2-ND	4,000	16.00/M	C0805C680J5GACTU
		50	82pF	±5%	399-1120-1-ND	2.20	13.00	37.50	399-1120-2-ND	4,000	36.00/M	C0805C820J5GACTU
		50	100pF	±5%	399-1122-1-ND	.97	5.72	16.50	399-1122-2-ND	4,000	16.00/M	C0805C101J5GACTU
		50	100pF	±10%	399-1121-1-ND	.97	5.72	16.50	399-1121-2-ND	4,000	16.00/M	C0805C101K5GACTU
		50	120pF	±5%	399-1124-1-ND	1.10	6.50	18.75	399-1124-2-ND	4,000	18.00/M	C0805C121J5GACTU
		50	150pF	±5%	399-1125-1-ND	1.10	6.50	18.75	399-1125-2-ND	4,000	18.00/M	C0805C151J5GACTU
		50	180pF	±5%	399-1126-1-ND	2.42	14.30	41.25	399-1126-2-ND	4,000	40.00/M	C0805C181J5GACTU
		50	220pF	±5%	399-1127-1-ND	1.10	6.50	18.75	399-1127-2-ND	4,000	18.00/M	C0805C221J5GACTU
		50	270pF	±5%	399-1129-1-ND	2.64	15.60	45.00	399-1129-2-ND	4,000	43.00/M	C0805C271J5GACTU
		50	330pF	±5%	399-1130-1-ND	1.43	8.45	24.38	399-1130-2-ND	4,000	23.00/M	C0805C331J5GACTU
		50	390pF	±5%	399-1132-1-ND	2.86	16.90	48.75	399-1132-2-ND	4,000	47.00/M	C0805C391J5GACTU
		50	470pF	±5%	399-1133-1-ND	1.60	9.43	27.19	399-1133-2-ND	4,000	26.00/M	C0805C471J5GACTU
		50	560pF	±5%	399-1134-1-ND	3.08	18.20	52.50	399-1134-2-ND	4,000	50.00/M	C0805C561J5GACTU
		50	680pF	±5%	399-1135-1-ND	3.30	19.50	56.25	399-1135-2-ND	4,000	54.00/M	C0805C681J5GACTU
		50	1000pF	±5%	399-1136-1-ND	1.32	7.80	22.50	399-1136-2-ND	4,000	22.00/M	C0805C102J5GACTU
	X7R	100	1000pF	±10%	399-1148-1-ND	1.05	6.18	17.81	399-1148-2-ND	4,000	17.00/M	C0805C102K1RACTU
		100	10000pF	±10%	399-1159-1-ND	1.10	6.50	18.75	399-1159-2-ND	4,000	18.00/M	C0805C103K1RACTU
		50	220pF	±10%	399-1138-1-ND	3.63	21.45	61.88	399-1138-2-ND	4,000	59.00/M	C0805C221K5RACTU
		50	270pF	±10%	399-1139-1-ND	3.63	21.45	61.88	399-1139-2-ND	4,000	59.00/M	C0805C271K5RACTU
		50	330pF	±10%	399-1140-1-ND	3.63	21.45	61.88	399-1140-2-ND	4,000	59.00/M	C0805C331K5RACTU
		50	390pF	±10%	399-1141-1-ND	3.63	21.45	61.88	399-1141-2-ND	4,000	59.00/M	C0805C391K5RACTU
		50	470pF	±10%	399-1142-1-ND	.75	4.42	12.75	399-1142-2-ND	4,000	12.00/M	C0805C471K5RACTU
		50	560pF	±10%	399-1143-1-ND	2.75	16.25	46.88	399-1143-2-ND	4,000	45.00/M	C0805C561K5RACTU
		50	680pF	±10%	399-1144-1-ND	2.75	16.25	46.88	399-1144-2-ND	4,000	45.00/M	C0805C681K5RACTU
		50	820pF	±10%	399-1145-1-ND	2.75	16.25	46.88	399-1145-2-ND	4,000	45.00/M	C0805C821K5RACTU
		50	1000pF	±5%	399-1149-1-ND	.83	4.88	14.06	399-1149-2-ND	4,000	14.00/M	C0805C102J5RACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.** *(Continued)*

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
						10	100	500		Size	Pricing	
0805	X7R	50	1000pF	±10%	399-1147-1-ND	.50	2.93	8.44	399-1147-2-ND	4,000	8.00/M	C0805C102K5RACTU
		50	1000pF	±20%	399-1146-1-ND	.50	2.93	8.44	399-1146-2-ND	4,000	8.00/M	C0805C102M5RACTU
		50	1500pF	±10%	399-1150-1-ND	2.75	16.25	46.88	399-1150-2-ND	4,000	45.00/M	C0805C152K5RACTU
		50	2200pF	±10%	399-1151-1-ND	.53	3.12	9.00	399-1151-2-ND	4,000	9.00/M	C0805C222K5RACTU
		50	2700pF	±10%	399-1152-1-ND	2.75	16.25	46.88	399-1152-2-ND	4,000	45.00/M	C0805C272K5RACTU
		50	3300pF	±10%	399-1153-1-ND	2.75	16.25	46.88	399-1153-2-ND	4,000	45.00/M	C0805C332K5RACTU
		50	3900pF	±10%	399-1154-1-ND	2.75	16.25	46.88	399-1154-2-ND	4,000	45.00/M	C0805C392K5RACTU
		50	4700pF	±10%	399-1155-1-ND	.53	3.12	9.00	399-1155-2-ND	4,000	9.00/M	C0805C472K5RACTU
		50	5600pF	±10%	399-1156-1-ND	2.75	16.25	46.88	399-1156-2-ND	4,000	45.00/M	C0805C562K5RACTU
		50	6800pF	±10%	399-1157-1-ND	2.75	16.25	46.88	399-1157-2-ND	4,000	45.00/M	C0805C682K5RACTU
		50	10000pF	±10%	399-1158-1-ND	.50	2.93	8.44	399-1158-2-ND	4,000	8.00/M	C0805C103K5RACTU
		50	10000pF	±20%	399-1160-1-ND	.50	2.93	8.44	399-1160-2-ND	4,000	8.00/M	C0805C103M5RACTU
		50	15000pF	±10%	399-1161-1-ND	3.08	18.20	52.50	399-1161-2-ND	4,000	50.00/M	C0805C153K5RACTU
		50	18000pF	±10%	399-1162-1-ND	3.08	18.20	52.50	399-1162-2-ND	4,000	50.00/M	C0805C183K5RACTU
		50	22000pF	±10%	399-1163-1-ND	.77	4.55	13.13	399-1163-2-ND	4,000	13.00/M	C0805C223K5RACTU
		50	27000pF	±10%	399-1164-1-ND	.77	4.55	13.13	399-1164-2-ND	4,000	13.00/M	C0805C273K5RACTU
		50	33000pF	±10%	399-1165-1-ND	3.41	20.15	58.13	399-1165-2-ND	4,000	56.00/M	C0805C333K5RACTU
		50	47000pF	±10%	399-1166-1-ND	.94	5.53	15.94	399-1166-2-ND	4,000	15.00/M	C0805C473K5RACTU
		50	.10µF	±5%	399-1171-1-ND	1.21	7.15	20.63	399-1171-2-ND	4,000	20.00/M	C0805C104J5RACTU
		50	.10µF	±10%	399-1170-1-ND	.83	4.88	14.06	399-1170-2-ND	4,000	14.00/M	C0805C104K5RACTU
		50	.10µF	±20%	399-1169-1-ND	.83	4.88	14.06	399-1169-2-ND	4,000	14.00/M	C0805C104M5RACTU
		25	.10µF	±10%	399-1168-1-ND	.83	4.88	14.06	399-1168-2-ND	4,000	14.00/M	C0805C104K3RACTU
		16	.10µF	±10%	399-1167-1-ND	.83	4.88	14.06	399-1167-2-ND	4,000	14.00/M	C0805C104K4RACTU
		16	1.0µF	±10%	399-1284-1-ND	2.53	14.95	43.13	399-1284-2-ND	2,500	41.00/M	C0805C105K4RACTU
		10	1.0µF	±10%	399-1172-1-ND	2.53	14.95	43.13	399-1172-2-ND	2,500	41.00/M	C0805C105K8RACTU
	X5R	10	1.2µF	±10%	399-3119-1-ND *NEW!*	4.51	26.65	76.88	399-3119-2-ND *NEW!*	4,000	74.00/M	C0805C125K8PACTU
		10	1.5µF	±10%	399-3121-1-ND *NEW!*	4.73	27.95	80.63	399-3121-2-ND *NEW!*	2,500	77.00/M	C0805C155K8PACTU
		10	1.8µF	±10%	399-3123-1-ND *NEW!*	4.95	29.25	84.38	399-3123-2-ND *NEW!*	2,500	81.00/M	C0805C185K8PACTU
		10	2.2µF	±10%	399-3125-1-ND *NEW!*	4.51	26.65	76.88	399-3125-2-ND *NEW!*	2,500	74.00/M	C0805C225K8PACTU
		10	2.7µF	±10%	399-3127-1-ND *NEW!*	7.02	41.47	119.63	399-3127-2-ND *NEW!*	4,000	115.00/M	C0805C275K8PACTU
		10	3.3µF	±10%	399-3129-1-ND *NEW!*	7.02	41.47	119.63	399-3129-2-ND *NEW!*	2,500	115.00/M	C0805C335K8PACTU
		10	3.9µF	±10%	399-3131-1-ND *NEW!*	7.02	41.47	119.63	399-3131-2-ND *NEW!*	2,500	115.00/M	C0805C395K8PACTU
		10	4.7µF	±10%	399-3133-1-ND *NEW!*	5.61	33.15	95.63	399-3133-2-ND *NEW!*	2,500	92.00/M	C0805C475K8PACTU
		6.3	1.2µF	±10%	399-3120-1-ND *NEW!*	4.51	26.65	76.88	399-3120-2-ND *NEW!*	4,000	74.00/M	C0805C125K9PACTU
		6.3	1.5µF	±10%	399-3122-1-ND *NEW!*	4.73	27.95	80.63	399-3122-2-ND *NEW!*	2,500	77.00/M	C0805C155K9PACTU
		6.3	1.8µF	±10%	399-3124-1-ND *NEW!*	4.95	29.25	84.38	399-3124-2-ND *NEW!*	2,500	81.00/M	C0805C185K9PACTU
		6.3	2.2µF	±10%	399-3126-1-ND *NEW!*	4.51	26.65	76.88	399-3126-2-ND *NEW!*	2,500	74.00/M	C0805C225K9PACTU
		6.3	2.7µF	±10%	399-3128-1-ND *NEW!*	7.02	41.47	119.63	399-3128-2-ND *NEW!*	4,000	115.00/M	C0805C275K9PACTU
		6.3	3.3µF	±10%	399-3130-1-ND *NEW!*	7.02	41.47	119.63	399-3130-2-ND *NEW!*	2,500	115.00/M	C0805C335K9PACTU
		6.3	3.9µF	±10%	399-3132-1-ND *NEW!*	7.02	41.47	119.63	399-3132-2-ND *NEW!*	2,500	115.00/M	C0805C395K9PACTU
		6.3	4.7µF	±10%	399-3134-1-ND *NEW!*	5.61	33.15	95.63	399-3134-2-ND *NEW!*	2,500	92.00/M	C0805C475K9PACTU
		6.3	5.6µF	±10%	399-3135-1-ND *NEW!*	14.44	85.35	246.19	399-3135-2-ND *NEW!*	2,500	236.00/M	C0805C565K9PACTU
		6.3	6.8µF	±10%	399-3136-1-ND *NEW!*	14.44	85.35	246.19	399-3136-2-ND *NEW!*	2,500	236.00/M	C0805C685K9PACTU
		6.3	8.2µF	±10%	399-3137-1-ND *NEW!*	14.44	85.35	246.19	399-3137-2-ND *NEW!*	2,500	236.00/M	C0805C825K9PACTU
		6.3	10µF	±10%	399-3138-1-ND *NEW!*	11.55	68.25	196.88	399-3138-2-ND *NEW!*	2,500	189.00/M	C0805C106K9PACTU
	Y5V	50	.10µF	+80%, -20%	399-1177-1-ND	.79	4.68	13.50	399-1177-2-ND	4,000	13.00/M	C0805C104Z5VACTU
		25	1.0µF	+80%, -20%	399-1293-1-ND	5.94	35.10	101.25	399-1293-2-ND	2,500	97.00/M	C0805C105Z3VACTU
		16	1.5µF	+80%, -20%	399-1294-1-ND	6.53	38.61	111.38	399-1294-2-ND	2,500	107.00/M	C0805C155Z4VACTU
		16	2.2µF	+80%, -20%	399-1295-1-ND	7.18	42.45	122.44	399-1295-2-ND	2,500	118.00/M	C0805C225Z4VACTU
	Z5U	50	10000pF	+80%, -20%	399-1173-1-ND	.64	3.77	10.88	399-1173-2-ND	4,000	10.00/M	C0805C103Z5UACTU
		50	10000pF	±20%	399-1174-1-ND	.64	3.77	10.88	399-1174-2-ND	4,000	10.00/M	C0805C103M5UACTU
		50	.10µF	+80%, -20%	399-1175-1-ND	.75	4.42	12.75	399-1175-2-ND	4,000	12.00/M	C0805C104Z5UACTU
		50	.10µF	±20%	399-1176-1-ND	.75	4.42	12.75	399-1176-2-ND	4,000	12.00/M	C0805C104M5UACTU
1206	C0G (NP0)	100	100pF	±5%	399-1206-1-ND	1.98	11.70	33.75	399-1206-2-ND	4,000	32.00/M	C1206C101J1GACTU
		100	470pF	±5%	399-1214-1-ND	5.46	32.24	93.00	399-1214-2-ND	4,000	89.00/M	C1206C471J1GACTU
		100	1000pF	±5%	399-1219-1-ND	3.85	22.75	65.63	399-1219-2-ND	4,000	63.00/M	C1206C102J1GACTU
		50	1.0pF	±0.25pF	399-1178-1-ND	7.28	43.03	124.13	399-1178-2-ND	4,000	119.00/M	C1206C109C5GACTU
		50	1.5pF	±0.25pF	399-1179-1-ND	7.28	43.03	124.13	399-1179-2-ND	4,000	119.00/M	C1206C159C5GACTU
		50	1.8pF	±0.25pF	399-1180-1-ND	7.28	43.03	124.13	399-1180-2-ND	4,000	119.00/M	C1206C189C5GACTU
		50	2.2pF	±0.25pF	399-1181-1-ND	7.28	43.03	124.13	399-1181-2-ND	4,000	119.00/M	C1206C229C5GACTU
		50	2.7pF	±0.25pF	399-1182-1-ND	7.28	43.03	124.13	399-1182-2-ND	4,000	119.00/M	C1206C279C5GACTU
		50	3.3pF	±0.25pF	399-1183-1-ND	7.28	43.03	124.13	399-1183-2-ND	4,000	119.00/M	C1206C339C5GACTU
		50	3.9pF	±0.25pF	399-1184-1-ND	7.28	43.03	124.13	399-1184-2-ND	4,000	119.00/M	C1206C399C5GACTU
		50	4.7pF	±0.25pF	399-1185-1-ND	7.28	43.03	124.13	399-1185-2-ND	4,000	119.00/M	C1206C479C5GACTU
		50	5.1pF	±0.25pF	399-1186-1-ND	10.54	62.27	179.63	399-1186-2-ND	4,000	172.00/M	C1206C519C5GACTU
		50	5.6pF	±0.25pF	399-1187-1-ND	8.78	51.87	149.63	399-1187-2-ND	4,000	144.00/M	C1206C569C5GACTU
		50	6.8pF	±0.5pF	399-1188-1-ND	4.16	24.57	70.88	399-1188-2-ND	4,000	68.00/M	C1206C689D5GACTU
		50	7.5pF	±0.5pF	399-1189-1-ND	4.99	29.51	85.13	399-1189-2-ND	4,000	82.00/M	C1206C759D5GACTU
		50	8.2pF	±0.5pF	399-1190-1-ND	4.16	24.57	70.88	399-1190-2-ND	4,000	68.00/M	C1206C829D5GACTU
		50	9.1pF	±0.5pF	399-1191-1-ND	4.99	29.51	85.13	399-1191-2-ND	4,000	82.00/M	C1206C919D5GACTU
		50	10pF	±5%	399-1192-1-ND	1.71	10.08	29.06	399-1192-2-ND	4,000	28.00/M	C1206C100J5GACTU
		50	12pF	±5%	399-1193-1-ND	1.71	10.08	29.06	399-1193-2-ND	4,000	28.00/M	C1206C120J5GACTU
		50	15pF	±5%	399-1194-1-ND	1.71	10.08	29.06	399-1194-2-ND	4,000	28.00/M	C1206C150J5GACTU
		50	18pF	±5%	399-1195-1-ND	1.71	10.08	29.06	399-1195-2-ND	4,000	28.00/M	C1206C180J5GACTU
		50	20pF	±5%	399-1196-1-ND	4.99	29.51	85.13	399-1196-2-ND	4,000	82.00/M	C1206C200J5GACTU
		50	22pF	±5%	399-1197-1-ND	1.71	10.08	29.06	399-1197-2-ND	4,000	28.00/M	C1206C220J5GACTU
		50	27pF	±5%	399-1198-1-ND	1.71	10.08	29.06	399-1198-2-ND	4,000	28.00/M	C1206C270J5GACTU
		50	33pF	±5%	399-1199-1-ND	1.71	10.08	29.06	399-1199-2-ND	4,000	28.00/M	C1206C330J5GACTU
		50	39pF	±5%	399-1200-1-ND	4.16	24.57	70.88	399-1200-2-ND	4,000	68.00/M	C1206C390J5GACTU
		50	47pF	±5%	399-1201-1-ND	1.71	10.08	29.06	399-1201-2-ND	4,000	28.00/M	C1206C470J5GACTU
		50	51pF	±5%	399-1202-1-ND	4.99	29.51	85.13	399-1202-2-ND	4,000	82.00/M	C1206C510J5GACTU
		50	56pF	±5%	399-1203-1-ND	4.16	24.57	70.88	399-1203-2-ND	4,000	68.00/M	C1206C560J5GACTU
		50	68pF	±5%	399-1204-1-ND	4.16	24.57	70.88	399-1204-2-ND	4,000	68.00/M	C1206C680J5GACTU
		50	100pF	±5%	399-1205-1-ND	1.71	10.08	29.06	399-1205-2-ND	4,000	28.00/M	C1206C101J5GACTU
		50	120pF	±5%	399-1207-1-ND	4.16	24.57	70.88	399-1207-2-ND	4,000	68.00/M	C1206C121J5GACTU
		50	220pF	±10%	399-1208-1-ND	4.28	25.29	72.94	399-1208-2-ND	4,000	70.00/M	C1206C221K5GACTU
		50	270pF	±10%	399-1209-1-ND	4.39	25.94	74.81	399-1209-2-ND	4,000	72.00/M	C1206C271K5GACTU
		50	330pF	±10%	399-1210-1-ND	4.39	25.94	74.81	399-1210-2-ND	4,000	72.00/M	C1206C331K5GACTU
		50	390pF	±10%	399-1211-1-ND	4.51	26.65	76.88	399-1211-2-ND	4,000	74.00/M	C1206C391K5GACTU
		50	470pF	±5%	399-1213-1-ND	2.20	13.00	37.50	399-1213-2-ND	4,000	36.00/M	C1206C471J5GACTU
		50	470pF	±10%	399-1212-1-ND	4.51	26.65	76.88	399-1212-2-ND	4,000	74.00/M	C1206C471K5GACTU
		50	560pF	±10%	399-1215-1-ND	4.74	28.02	80.81	399-1215-2-ND	4,000	78.00/M	C1206C561K5GACTU
		50	680pF	±10%	399-1216-1-ND	4.97	29.38	84.75	399-1216-2-ND	4,000	81.00/M	C1206C681K5GACTU
		50	820pF	±10%	399-1217-1-ND	5.20	30.75	88.69	399-1217-2-ND	4,000	85.00/M	C1206C821K5GACTU
		50	1000pF	±5%	399-1218-1-ND	3.30	19.50	56.25	399-1218-2-ND	4,000	54.00/M	C1206C102J5GACTU
		50	4700pF	±2%	399-1220-1-ND	34.39	203.19	586.13	399-1220-2-ND	4,000	563.00/M	C1206C472G5GACTU
		100	1000pF	±10%	399-1222-1-ND	1.87	11.05	31.88	399-1222-2-ND	4,000	31.00/M	C1206C102K1RACTU
		100	10000pF	±5%	399-1238-1-ND	1.98	11.70	33.75	399-1238-2-ND	4,000	32.00/M	C1206C103J1RACTU
		100	10000pF	±10%	399-1236-1-ND	1.32	7.80	22.50	399-1236-2-ND	4,000	22.00/M	C1206C103K1RACTU
		100	10000pF	±20%	399-1235-1-ND	1.32	7.80	22.50	399-1235-2-ND	4,000	22.00/M	C1206C103M1RACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
						10	100	500		Size	Pricing	
1206	X7R	100	56000pF	±10%	399-1802-1-ND	5.54	32.76	94.50	399-1802-2-ND	4,000	91.00/M	C1206C563K1RACTU
		100	68000pF	±10%	399-1803-1-ND	6.01	35.49	102.38	399-1803-2-ND	4,000	98.00/M	C1206C683K1RACTU
		100	82000pF	±10%	399-1804-1-ND	6.31	37.31	107.63	399-1804-2-ND	4,000	103.00/M	C1206C823K1RACTU
		100	.10µF	±10%	399-1805-1-ND	6.62	39.13	112.88	399-1805-2-ND	4,000	108.00/M	C1206C104K1RACTU
		50	1000pF	±10%	399-1221-1-ND	1.32	7.80	22.50	399-1221-2-ND	4,000	22.00/M	C1206C102K5RACTU
		50	1200pF	±10%	399-1223-1-ND	3.30	19.50	56.25	399-1223-2-ND	4,000	54.00/M	C1206C122K5RACTU
		50	1500pF	±10%	399-1224-1-ND	3.30	19.50	56.25	399-1224-2-ND	4,000	54.00/M	C1206C152K5RACTU
		50	1800pF	±10%	399-1225-1-ND	3.30	19.50	56.25	399-1225-2-ND	4,000	54.00/M	C1206C182K5RACTU
		50	2200pF	±10%	399-1226-1-ND	1.71	10.08	29.06	399-1226-2-ND	4,000	28.00/M	C1206C222K5RACTU
		50	2700pF	±10%	399-1227-1-ND	3.30	19.50	56.25	399-1227-2-ND	4,000	54.00/M	C1206C272K5RACTU
		50	3300pF	±10%	399-1228-1-ND	3.30	19.50	56.25	399-1228-2-ND	4,000	54.00/M	C1206C332K5RACTU
		50	3900pF	±10%	399-1229-1-ND	3.30	19.50	56.25	399-1229-2-ND	4,000	54.00/M	C1206C392K5RACTU
		50	4700pF	±10%	399-1230-1-ND	1.71	10.08	29.06	399-1230-2-ND	4,000	28.00/M	C1206C472K5RACTU
		50	5600pF	±10%	399-1231-1-ND	3.30	19.50	56.25	399-1231-2-ND	4,000	54.00/M	C1206C562K5RACTU
		50	6800pF	±10%	399-1232-1-ND	3.30	19.50	56.25	399-1232-2-ND	4,000	54.00/M	C1206C682K5RACTU
		50	8200pF	±10%	399-1233-1-ND	3.30	19.50	56.25	399-1233-2-ND	4,000	54.00/M	C1206C822K5RACTU
		50	10000pF	±5%	399-1237-1-ND	1.65	9.75	28.13	399-1237-2-ND	4,000	27.00/M	C1206C103J5RACTU
		50	10000pF	±10%	399-1234-1-ND	1.21	7.15	20.63	399-1234-2-ND	4,000	20.00/M	C1206C103K5RACTU
		50	12000pF	±10%	399-1239-1-ND	3.74	22.10	63.75	399-1239-2-ND	4,000	61.00/M	C1206C123K5RACTU
		50	15000pF	±10%	399-1240-1-ND	3.74	22.10	63.75	399-1240-2-ND	4,000	61.00/M	C1206C153K5RACTU
		50	18000pF	±10%	399-1241-1-ND	3.74	22.10	63.75	399-1241-2-ND	4,000	61.00/M	C1206C183K5RACTU
		50	22000pF	±10%	399-1242-1-ND	1.65	9.75	28.13	399-1242-2-ND	4,000	27.00/M	C1206C223K5RACTU
		50	27000pF	±10%	399-1243-1-ND	3.74	22.10	63.75	399-1243-2-ND	4,000	61.00/M	C1206C273K5RACTU
		50	33000pF	±10%	399-1244-1-ND	3.74	22.10	63.75	399-1244-2-ND	4,000	61.00/M	C1206C333K5RACTU
		50	39000pF	±10%	399-1245-1-ND	3.85	22.75	65.63	399-1245-2-ND	4,000	63.00/M	C1206C393K5RACTU
		50	47000pF	±10%	399-1246-1-ND	1.65	9.75	28.13	399-1246-2-ND	4,000	27.00/M	C1206C473K5RACTU
		50	68000pF	±5%	399-1247-1-ND	4.03	23.79	68.63	399-1247-2-ND	4,000	66.00/M	C1206C683J5RACTU
		50	.10µF	±5%	399-1250-1-ND	2.53	14.95	43.13	399-1250-2-ND	4,000	41.00/M	C1206C104J5RACTU
		50	.10µF	±10%	399-1249-1-ND	1.21	7.15	20.63	399-1249-2-ND	4,000	20.00/M	C1206C104K5RACTU
		50	.10µF	±20%	399-1248-1-ND	1.21	7.15	20.63	399-1248-2-ND	4,000	20.00/M	C1206C104M5RACTU
		50	.22µF	±5%	399-1252-1-ND	13.75	81.25	234.38	399-1252-2-ND	2,500	225.00/M	C1206C224J5RACTU
		50	.22µF	±10%	399-1251-1-ND	2.75	16.25	46.88	399-1251-2-ND	2,500	45.00/M	C1206C224K5RACTU
		25	.33µF	±10%	399-1285-1-ND	9.90	58.50	168.75	399-1285-2-ND	4,000	162.00/M	C1206C334K3RACTU
		25	1.0µF	±10%	399-1255-1-ND	3.43	20.28	58.50	399-1255-2-ND	2,500	56.00/M	C1206C105K3RACTU
		16	.33µF	±10%	399-1253-1-ND	9.90	58.50	168.75	399-1253-2-ND	4,000	162.00/M	C1206C334K4RACTU
		16	1.0µF	±10%	399-1254-1-ND	3.30	19.50	56.25	399-1254-2-ND	2,500	54.00/M	C1206C105K4RACTU
		16	1.2µF	±10%	399-1286-1-ND	14.30	84.50	243.75	399-1286-2-ND	2,500	234.00/M	C1206C125K4RACTU
		16	2.2µF	±10%	399-1257-1-ND	17.05	100.75	290.63	399-1257-2-ND	2,500	279.00/M	C1206C225K4RACTU
		10	1.2µF	±10%	399-1256-1-ND	14.30	84.50	243.75	399-1256-2-ND	4,000	234.00/M	C1206C125K8RACTU
	X5R	25	2.7µF	±10%	399-3139-1-ND *NEW!*	9.90	58.50	58.50	399-3139-2-ND *NEW!*	6,000	126.00/M	C1206C275K3PACTU
		25	3.3µF	±10%	399-3140-1-ND *NEW!*	11.00	65.00	65.00	399-3140-2-ND *NEW!*	2,000	180.00/M	C1206C335K3PACTU
		25	3.9µF	±10%	399-3141-1-ND *NEW!*	11.00	65.00	65.00	399-3141-2-ND *NEW!*	2,000	180.00/M	C1206C395K3PACTU
		25	4.7µF	±10%	399-3142-1-ND *NEW!*	14.91	88.08	88.08	399-3142-2-ND *NEW!*	2,000	244.00/M	C1206C475K3PACTU
		16	2.2µF	±10%	399-1263-1-ND	8.80	52.00	150.00	399-1263-2-ND	2,500	144.00/M	C1206C225K4PACTU
		16	3.3µF	±10%	399-1264-1-ND	11.00	65.00	187.50	399-1264-2-ND	2,500	180.00/M	C1206C335K4PACTU
		16	4.7µF	±10%	399-1265-1-ND	8.64	51.03	147.19	399-1265-2-ND	2,000	141.00/M	C1206C475K4PACTU
		6.3	6.8µF	±10%	399-3025-1-ND	14.96	88.40	255.00	399-3025-2-ND	2,000	245.00/M	C1206C685K9PACTU
		6.3	10µF	±10%	399-3029-1-ND	8.91	52.65	151.88	399-3029-2-ND	2,000	146.00/M	C1206C106K9PACTU
	Y5V	25	1.0µF	+80%, -20%	399-1296-1-ND	6.16	36.40	105.00	399-1296-2-ND	4,000	101.00/M	C1206C105Z3VACTU
		16	1.5µF	+80%, -20%	399-1297-1-ND	8.25	48.75	140.63	399-1297-2-ND	4,000	135.00/M	C1206C155Z4VACTU
		16	2.2µF	+80%, -20%	399-1260-1-ND	8.25	48.75	140.63	399-1260-2-ND	2,500	135.00/M	C1206C225Z4VACTU
		16	3.3µF	+80%, -20%	399-1261-1-ND	9.35	55.25	159.38	399-1261-2-ND	3,000	153.00/M	C1206C335Z4VACTU
		16	4.7µF	+80%, -20%	399-1262-1-ND	4.40	26.00	75.00	399-1262-2-ND	2,000	72.00/M	C1206C475Z4VACTU
		10	6.8µF	+80%, -20%	399-1298-1-ND	13.07	77.22	222.75	399-1298-2-ND	2,000	214.00/M	C1206C685Z8VACTU
		10	10µF	+80%, -20%	399-1299-1-ND	15.68	92.63	267.19	399-1299-2-ND	2,000	257.00/M	C1206C106Z8VACTU
		6.3	15µF	+80%, -20%	399-3024-1-ND	22.00	130.00	375.00	399-3024-2-ND	2,000	360.00/M	C1206C156Z9VACTU
		6.3	22µF	+80%, -20%	399-3028-1-ND	25.85	152.75	440.63	399-3028-2-ND	2,000	423.00/M	C1206C226Z9VACTU
	Z5U	50	.10µF	+80%, -20%	399-1258-1-ND	1.21	7.15	20.63	399-1258-2-ND	4,000	20.00/M	C1206C104Z5UACTU
		50	.10µF	±20%	399-1259-1-ND	1.21	7.15	20.63	399-1259-2-ND	4,000	20.00/M	C1206C104M5UACTU
1210	C0G(NP0)	50	10000pF	±5%	399-1266-1-ND	34.77	205.47	592.69	399-1266-2-ND	2,500	569.00/M	C1210C103J5GACTU
	X7R	100	.10µF	±10%	399-1268-1-ND	4.07	24.05	69.38	399-1268-2-ND	2,500	67.00/M	C1210C104K1RACTU
		50	.10µF	±10%	399-1267-1-ND	3.63	21.45	61.88	399-1267-2-ND	4,000	59.00/M	C1210C104K5RACTU
		50	.22µF	±10%	399-1269-1-ND	4.40	26.00	75.00	399-1269-2-ND	2,500	72.00/M	C1210C224K5RACTU
		50	.39µF	±10%	399-3087-1-ND	18.15	107.25	309.38	399-3087-2-ND	4,000	297.00/M	C1210C394K5RACTU
		50	.47µF	±10%	399-3089-1-ND	18.15	107.25	309.38	399-3089-2-ND	4,000	297.00/M	C1210C474K5RACTU
		50	.56µF	±10%	399-3091-1-ND	18.15	107.25	309.38	399-3091-2-ND	4,000	297.00/M	C1210C564K5RACTU
		50	.68µF	±10%	399-3092-1-ND	18.15	107.25	309.38	399-3092-2-ND	4,000	297.00/M	C1210C684K5RACTU
		50	.82µF	±10%	399-3093-1-ND	19.80	117.00	337.50	399-3093-2-ND	2,500	324.00/M	C1210C824K5RACTU
		50	1.0µF	±10%	399-3076-1-ND	19.80	117.00	337.50	399-3076-2-ND	2,000	324.00/M	C1210C105K5RACTU
		25	1.2µF	±10%	399-3078-1-ND	19.80	117.00	337.50	399-3078-2-ND	2,000	324.00/M	C1210C125K3RACTU
		25	1.5µF	±10%	399-3080-1-ND	19.80	117.00	337.50	399-3080-2-ND	4,000	324.00/M	C1210C155K3RACTU
		25	1.8µF	±10%	399-3082-1-ND	16.50	97.50	281.25	399-3082-2-ND	2,000	270.00/M	C1210C185K3RACTU
		25	2.2µF	±10%	399-3084-1-ND	16.50	97.50	281.25	399-3084-2-ND	2,500	270.00/M	C1210C225K3RACTU
	X5R	25	1.2µF	±10%	399-3077-1-ND	9.35	55.25	159.38	399-3077-2-ND	4,000	153.00/M	C1210C125K3PACTU
		25	1.5µF	±10%	399-3079-1-ND	9.35	55.25	159.38	399-3079-2-ND	2,000	153.00/M	C1210C155K3PACTU
		25	1.8µF	±10%	399-3081-1-ND	9.35	55.25	159.38	399-3081-2-ND	2,000	153.00/M	C1210C185K3PACTU
		25	2.2µF	±10%	399-3083-1-ND	11.00	65.00	187.50	399-3083-2-ND	2,500	180.00/M	C1210C225K3PACTU
		25	2.7µF	±10%	399-3143-1-ND *NEW!*	14.85	87.75	253.13	399-3143-2-ND *NEW!*	6,000	189.00/M	C1210C275K3PACTU
		25	3.3µF	±10%	399-3144-1-ND *NEW!*	14.85	87.75	253.13	399-3144-2-ND *NEW!*	2,000	243.00/M	C1210C335K3PACTU
		25	3.9µF	±10%	399-3145-1-ND *NEW!*	18.15	107.25	309.38	399-3145-2-ND *NEW!*	2,000	297.00/M	C1210C395K3PACTU
		25	4.7µF	±10%	399-3146-1-ND *NEW!*	18.15	107.25	309.38	399-3146-2-ND *NEW!*	1,800	297.00/M	C1210C475K3PACTU
		16	5.6µF	±10%	399-3147-1-ND *NEW!*	24.20	143.00	412.50	399-3147-2-ND *NEW!*	2,500	396.00/M	C1210C565K4PACTU
		16	8.2µF	±10%	399-3149-1-ND *NEW!*	24.20	143.00	412.50	399-3149-2-ND *NEW!*	1,800	396.00/M	C1210C825K4PACTU
		16	10µF	±10%	399-3150-1-ND *NEW!*	36.30	214.50	618.75	399-3150-2-ND *NEW!*	1,800	594.00/M	C1210C106K4PACTU
		16	2.7µF	±10%	399-3085-1-ND	14.85	87.75	253.13	399-3085-2-ND	2,500	243.00/M	C1210C275K4PACTU
		16	3.3µF	±10%	399-3086-1-ND	14.85	87.75	253.13	399-3086-2-ND	2,000	243.00/M	C1210C335K4PACTU
		16	3.9µF	±10%	399-3088-1-ND	18.15	107.25	309.38	399-3088-2-ND	2,000	297.00/M	C1210C395K4PACTU
		16	4.7µF	±10%	399-3090-1-ND	18.15	107.25	309.38	399-3090-2-ND	1,800	297.00/M	C1210C475K4PACTU
		16	6.8µF	±10%	399-1288-1-ND *NEW!*	24.20	143.00	412.50	399-1288-2-ND *NEW!*	2,000	396.00/M	C1210C685K4PACTU
		10	4.7µF	±10%	399-1273-1-ND	18.15	107.25	309.38	399-1273-2-ND	2,000	297.00/M	C1210C475K8PACTU
		10	6.8µF	±10%	399-1274-1-ND	24.20	143.00	412.50	399-1274-2-ND	2,000	396.00/M	C1210C685K8PACTU
		10	10µF	±10%	399-1275-1-ND	36.30	214.50	618.75	399-1275-2-ND	1,800	594.00/M	C1210C106K8PACTU
	Y5V	16	4.7µF	+80%, -20%	399-1270-1-ND	15.40	91.00	262.50	399-1270-2-ND	2,500	252.00/M	C1210C475Z4VACTU
		16	6.8µF	+80%, -20%	399-1271-1-ND	18.70	110.50	318.75	399-1271-2-ND	2,500	306.00/M	C1210C685Z4VACTU
		16	10µF	+80%, -20%	399-1272-1-ND	9.52	56.23	162.19	399-1272-2-ND	2,000	156.00/M	C1210C106Z4VACTU
		10	15µF	+80%, -20%	399-1300-1-ND	26.13	154.38	445.31	399-1300-2-ND	2,000	428.00/M	C1210C156Z8VACTU
		10	22µF	+80%, -20%	399-1301-1-ND	31.35	185.25	534.38	399-1301-2-ND	2,000	513.00/M	C1210C226Z8VACTU

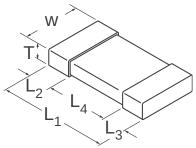
***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

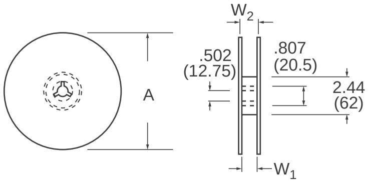
YAGEO
AMERICA

Surface Mount Ceramic Multilayer Chip Capacitors –
0402, 0603, 0805, 1206, 1812

Features:
- High capacitance per unit volume
- For high frequency applications
- NiSn terminations

Applications:
- Consumer electronics
- Telecommunications
- Automotive
- Data processing





Case Size	L_1	W	T		L_2 and L_3		L_4
			Min.	Max.	Min.	Max.	Min.
0402	.040” (1.0mm)	.020” (0.5mm)	.018” (0.45mm)	.022” (0.55mm)	.008” (0.20mm)	.012” (0.30mm)	.016” (0.40mm)
0603	.063” (1.6mm)	.032” (0.8mm)	.029” (0.73mm)	.035” (0.87mm)	.010” (0.25mm)	.026” (0.65mm)	.016” (0.40mm)
0805	.079” (2.0mm)	.049” (1.25mm)	.020” (0.51mm)	.053” (1.35mm)	.010” (0.25mm)	.030” (0.75mm)	.022” (0.55mm)
1206	.126” (3.2mm)	.063” (1.6mm)	.020” (0.51mm)	.069” (1.75mm)	.010” (0.25mm)	030” (0.75mm)	.056” (1.40mm)
1812	.177” (4.5mm)	.126” (3.2mm)	.020” (0.51mm)	.072” (1.80mm)	.010” (0.25mm)	030” (0.75mm)	.088” (2.20mm)

Case Size	Tape Width (mm)	A (mm)	W1 (mm)	W2 Max. (mm)
0402, 0603 0805, 1206	.315” (8mm)	7.087” (180mm)	.331” (8.4mm)	.567” (14.4mm)
1812	.472” (12mm)	7.087” (180mm)	.488” (12.4mm)	.724” (18.4mm)

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel		Yageo America
					Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0402	NP0	50	.5pF	±0.25pF	311-1001-1-ND	1.05	6.18	17.81	311-1001-2-ND	10,000	17.10/M	0402CG508C9B200
		50	1.2pF	±0.25pF	311-1002-1-ND	.99	5.85	16.88	311-1002-2-ND	10,000	16.20/M	0402CG129C9B200
		50	1.5pF	±0.25pF	311-1003-1-ND	.99	5.85	16.88	311-1003-2-ND	10,000	16.20/M	0402CG159C9B200
		50	1.8pF	±0.25pF	311-1004-1-ND	.99	5.85	16.88	311-1004-2-ND	10,000	16.20/M	0402CG189C9B200
		50	2.0pF	±0.25pF	311-1006-1-ND	1.05	6.18	17.81	311-1006-2-ND	10,000	17.10/M	0402CG209C9B200
		50	2.7pF	±0.25pF	311-1005-1-ND	.99	5.85	16.88	311-1005-2-ND	10,000	16.20/M	0402CG279C9B200
		50	3.0pF	±0.25pF	311-1007-1-ND	.99	5.85	16.88	311-1007-2-ND	10,000	16.20/M	0402CG309C9B200
		50	3.3pF	±0.25pF	311-1008-1-ND	.99	5.85	16.88	311-1008-2-ND	10,000	16.20/M	0402CG339C9B200
		50	5.0pF	±0.25pF	311-1010-1-ND	.99	5.85	16.88	311-1010-2-ND	10,000	16.20/M	0402CG509C9B200
		50	5.6pF	±0.5pF	311-1011-1-ND	.99	5.85	16.88	311-1011-2-ND	10,000	16.20/M	0402CG569D9B200
		50	8.2pF	±0.5pF	311-1012-1-ND	.99	5.85	16.88	311-1012-2-ND	10,000	16.20/M	0402CG829D9B200
		50	9.1pF	±0.5pF	311-1013-1-ND	.70	4.25	14.00	311-1013-2-ND	10,000	18.00/M	0402CG919D9B200
		50	10pF	±5%	311-1014-1-ND	.77	4.55	13.13	311-1014-2-ND	10,000	12.60/M	0402CG100D9B200
		50	11pF	±5%	311-1015-1-ND	1.09	6.44	18.56	311-1015-2-ND	10,000	17.82/M	0402CG110J9B200
		50	12pF	±5%	311-1016-1-ND	.88	5.20	15.00	311-1016-2-ND	10,000	14.40/M	0402CG120J9B200
		50	15pF	±5%	311-1017-1-ND	.88	5.20	15.00	311-1017-2-ND	10,000	14.40/M	0402CG150J9B200
		50	22pF	±5%	311-1018-1-ND	.88	5.20	15.00	311-1018-2-ND	10,000	14.40/M	0402CG220J9B200
		50	27pF	±5%	311-1019-1-ND	.94	5.53	15.94	311-1019-2-ND	10,000	15.30/M	0402CG270J9B200
		50	33pF	±5%	311-1020-1-ND	.94	5.53	15.94	311-1020-2-ND	10,000	15.30/M	0402CG330J9B200
		50	39pF	±5%	311-1009-1-ND	.94	5.53	15.94	311-1009-2-ND	10,000	15.30/M	0402CG390J9B200
		50	47pF	±5%	311-1021-1-ND	.88	5.20	15.00	311-1021-2-ND	10,000	14.40/M	0402CG470J9B200
		50	56pF	±5%	311-1022-1-ND	.94	5.53	15.94	311-1022-2-ND	10,000	15.30/M	0402CG560J9B200
		50	82pF	±5%	311-1023-1-ND	.99	5.85	16.88	311-1023-2-ND	10,000	16.20/M	0402CG820J9B200
		50	100pF	±5%	311-1024-1-ND	.83	4.88	14.06	311-1024-2-ND	10,000	13.50/M	0402CG101J9B200
		50	150pF	±5%	311-1025-1-ND	.77	4.68	15.40	311-1025-2-ND	10,000	19.80/M	0402CG151J9B200
		25	220pF	±5%	311-1026-1-ND	.99	5.85	16.88	311-1026-2-ND	10,000	16.20/M	0402CG221J8B200
	X7R	50	220pF	±10%	311-1035-1-ND	.77	4.55	13.13	311-1035-2-ND	10,000	12.60/M	04022R221K9B20D
		50	330pF	±10%	311-1027-1-ND	.77	4.55	13.13	311-1027-2-ND	10,000	12.60/M	04022R331K9B20D
		50	470pF	±10%	311-1028-1-ND	.77	4.55	13.13	311-1028-2-ND	10,000	12.60/M	04022R471K9B20D
		50	560pF	±10%	311-1029-1-ND	.77	4.55	13.13	311-1029-2-ND	10,000	12.60/M	04022R561K9B20D
		50	680pF	±10%	311-1030-1-ND	.77	4.55	13.13	311-1030-2-ND	10,000	12.60/M	04022R681K9B20D
		50	1200pF	±10%	311-1031-1-ND	.77	4.55	13.13	311-1031-2-ND	10,000	12.60/M	04022R122K9B20D
		50	1500pF	±10%	311-1032-1-ND	.77	4.55	13.13	311-1032-2-ND	10,000	12.60/M	04022R152K9B20D
		50	2700pF	±10%	311-1033-1-ND	.77	4.55	13.13	311-1033-2-ND	10,000	12.60/M	04022R272K9B20D
		50	3300pF	±10%	311-1034-1-ND	.83	4.88	14.06	311-1034-2-ND	10,000	13.50/M	04022R332K9B20D
		50	1000pF	±10%	311-1036-1-ND	.83	4.88	14.06	311-1036-2-ND	10,000	13.50/M	04022R102K9B20D
		50	2200pF	±10%	311-1037-1-ND	.77	4.55	13.13	311-1037-2-ND	10,000	12.60/M	04022R222K9B20D
		25	3900pF	±10%	311-1038-1-ND	.83	4.88	14.06	311-1038-2-ND	10,000	13.50/M	04022R392K8B20D
		25	4700pF	±10%	311-1039-1-ND	.77	4.55	13.13	311-1039-2-ND	10,000	12.60/M	04022R472K8B20D
		16	5600pF	±10%	311-1040-1-ND	.88	5.20	15.00	311-1040-2-ND	10,000	14.40/M	04022R562K7B20D
		16	8200pF	±10%	311-1041-1-ND	.94	5.53	15.94	311-1041-2-ND	10,000	15.30/M	04022R822K7B20D
		16	10000pF	±10%	311-1042-1-ND	.77	4.55	13.13	311-1042-2-ND	10,000	12.60/M	04022R103K7B20D
	Y5V	16	22000pF	-20%/+80%	311-1043-1-ND	.86	5.07	14.63	311-1043-2-ND	10,000	14.04/M	04022F223Z7B20D
		16	33000pF	-20%/+80%	311-1044-1-ND	.88	5.20	15.00	311-1044-2-ND	10,000	14.40/M	04022F333Z7B20D
		16	10000pF	-20%/+80%	311-1045-1-ND	.74	4.36	12.56	311-1045-2-ND	10,000	12.06/M	04022F103Z7B20D
		16	47000pF	-20%/+80%	311-1046-1-ND	.94	5.53	15.94	311-1046-2-ND	10,000	15.30/M	04022F473Z7B20D
		16	.10µF	-20%/+80%	311-1047-1-ND	.88	5.20	15.00	311-1047-2-ND	10,000	14.40/M	04022F104Z7B20D
0603	NP0	50	.5pF	±0.25pF	311-1048-1-ND	.75	4.42	12.75	311-1048-2-ND	4,000	12.24/M	0603CG508C9B200
		50	1.0pF	±0.25pF	311-1049-1-ND	.66	3.90	11.25	311-1049-2-ND	4,000	10.80/M	0603CG109C9B200
		50	1.5pF	±0.25pF	311-1050-1-ND	.66	3.90	11.25	311-1050-2-ND	4,000	10.80/M	0603CG159C9B200
		50	2.0pF	±0.25pF	311-1051-1-ND	.72	4.23	12.19	311-1051-2-ND	4,000	11.70/M	0603CG209C9B200
		50	3.0pF	±0.25pF	311-1052-1-ND	.72	4.23	12.19	311-1052-2-ND	4,000	11.70/M	0603CG309C9B200
		50	4.0pF	±0.25pF	311-1053-1-ND	.75	4.42	12.75	311-1053-2-ND	4,000	12.24/M	0603CG409C9B200
		50	5.0pF	±0.25pF	311-1054-1-ND	.72	4.23	12.19	311-1054-2-ND	4,000	11.70/M	0603CG509C9B200
		50	6.0pF	±0.5pF	311-1055-1-ND	.66	3.90	11.25	311-1055-2-ND	4,000	10.80/M	0603CG609C9B200
		50	7.0pF	±0.5pF	311-1056-1-ND	.75	4.42	12.75	311-1056-2-ND	4,000	12.24/M	0603CG709D9B200
		50	8.0pF	±0.5pF	311-1057-1-ND	.75	4.42	12.75	311-1057-2-ND	4,000	12.24/M	0603CG809D9B200
		50	10pF	±5%	311-1058-1-ND	.57	3.38	9.75	311-1058-2-ND	4,000	9.36/M	0603CG100J9B200
		50	12pF	±5%	311-1059-1-ND	.55	3.25	9.38	311-1059-2-ND	4,000	9.00/M	0603CG120J9B200
		50	15pF	±5%	311-1060-1-ND	.57	3.38	9.75	311-1060-2-ND	4,000	9.36/M	0603CG150J9B200
		50	18pF	±5%	311-1061-1-ND	.57	3.38	9.75	311-1061-2-ND	4,000	9.36/M	0603CG180J9B200
		50	22pF	±5%	311-1062-1-ND	.58	3.45	9.94	311-1062-2-ND	4,000	9.54/M	0603CG220J9B200
		50	27pF	±5%	311-1063-1-ND	.66	3.90	11.25	311-1063-2-ND	4,000	10.80/M	0603CG270J9B200
		50	33pF	±5%	311-1064-1-ND	.65	3.84	11.06	311-1064-2-ND	4,000	10.62/M	0603CG330J9B200

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Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812 *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Yageo America Part No.
0603	NP0	50	47pF	±5%	311-1065-1-ND	.65	3.84	11.06	311-1065-2-ND	4,000	10.62/M	0603CG470J9B200
		50	56pF	±5%	311-1066-1-ND	.68	4.03	11.63	311-1066-2-ND	4,000	11.16/M	0603CG560J9B200
		50	68pF	±5%	311-1067-1-ND	.68	4.03	11.63	311-1067-2-ND	4,000	11.16/M	0603CG680J9B200
		50	82pF	±5%	311-1068-1-ND	.73	4.29	12.38	311-1068-2-ND	4,000	11.88/M	0603CG820J9B200
		50	100pF	±5%	311-1069-1-ND	.62	3.64	10.50	311-1069-2-ND	4,000	10.08/M	0603CG101J9B200
		50	120pF	±5%	311-1070-1-ND	.73	4.29	12.38	311-1070-2-ND	4,000	11.88/M	0603CG121J9B200
		50	150pF	±5%	311-1071-1-ND	.86	5.07	14.63	311-1071-2-ND	4,000	14.04/M	0603CG151J9B200
		50	180pF	±5%	311-1072-1-ND	.94	5.53	15.94	311-1072-2-ND	4,000	15.30/M	0603CG181J9B200
		50	220pF	±5%	311-1073-1-ND	1.02	6.05	17.44	311-1073-2-ND	4,000	16.74/M	0603CG221J9B200
		50	270pF	±5%	311-1074-1-ND	.70	4.25	14.00	311-1074-2-ND	4,000	15.00/M	0603CG271J9B200
		50	330pF	±5%	311-1075-1-ND	.77	4.68	15.40	311-1075-2-ND	4,000	16.50/M	0603CG331J9B200
		50	390pF	±5%	311-1076-1-ND	.84	5.10	16.80	311-1076-2-ND	4,000	18.00/M	0603CG391J9B200
	X7R	50	220pF	±10%	311-1077-1-ND	.55	3.25	9.38	311-1077-2-ND	4,000	9.00/M	06032R221K9B20D
		50	270pF	±10%	311-1185-1-ND	.55	3.25	9.38	311-1185-2-ND	4,000	9.00/M	06032R271K9B20D
		50	330pF	±10%	311-1186-1-ND	.55	3.25	9.38	311-1186-2-ND	4,000	9.00/M	06032R331K9B20D
		50	390pF	±10%	311-1187-1-ND	.55	3.25	9.38	311-1187-2-ND	4,000	9.00/M	06032R391K9B20D
		50	470pF	±10%	311-1078-1-ND	.55	3.25	9.38	311-1078-2-ND	4,000	9.00/M	06032R471K9B20D
		50	560pF	±10%	311-1079-1-ND	.55	3.25	9.38	311-1079-2-ND	4,000	9.00/M	06032R561K9B20D
		50	680pF	±10%	311-1188-1-ND	.55	3.25	9.38	311-1188-2-ND	4,000	9.00/M	06032R681K9B20D
		50	820pF	±10%	311-1189-1-ND	.55	3.25	9.38	311-1189-2-ND	4,000	9.00/M	06032R821K9B20D
		50	1000pF	±10%	311-1080-1-ND	.55	3.25	9.38	311-1080-2-ND	4,000	9.00/M	06032R102K9B20D
		50	1500pF	±10%	311-1184-1-ND	.57	3.38	9.75	311-1184-2-ND	4,000	9.36/M	06032R152K9B20D
		50	2200pF	±10%	311-1081-1-ND	.55	3.25	9.38	311-1081-2-ND	4,000	9.00/M	06032R222K9B20D
		50	3300pF	±10%	311-1082-1-ND	.57	3.38	9.75	311-1082-2-ND	4,000	9.36/M	06032R332K9B20D
		50	4700pF	±10%	311-1083-1-ND	.55	3.25	9.38	311-1083-2-ND	4,000	9.00/M	06032R472K9B20D
		50	6800pF	±10%	311-1084-1-ND	.61	3.58	10.31	311-1084-2-ND	4,000	9.90/M	06032R682K9B20D
		50	10000pF	±10%	311-1085-1-ND	.59	3.51	10.13	311-1085-2-ND	4,000	9.72/M	06032R103K9B20D
		25	22000pF	±10%	311-1086-1-ND	.88	5.20	15.00	311-1086-2-ND	4,000	14.40/M	06032R223K8B20D
		16	.10µF	±10%	311-1088-1-ND	1.05	6.18	17.81	311-1088-2-ND	4,000	17.10/M	06032R104K7B20D
	Y5V	25	.10µF	-20%/+80%	311-1087-1-ND	.64	3.77	10.88	311-1087-2-ND	4,000	10.44/M	06032F104Z8B20D
0805	NP0	50	1.0pF	±0.25pF	311-1089-1-ND	.75	4.42	12.75	311-1089-2-ND	4,000	12.24/M	0805CG109C9B200
		50	1.5pF	±0.25pF	311-1090-1-ND	.75	4.42	12.75	311-1090-2-ND	4,000	12.24/M	0805CG159C9B200
		50	2.0pF	±0.25pF	311-1091-1-ND	.81	4.81	13.88	311-1091-2-ND	4,000	13.32/M	0805CG209C9B200
		50	3.0pF	±0.25pF	311-1092-1-ND	.81	4.81	13.88	311-1092-2-ND	4,000	13.32/M	0805CG309C9B200
		50	4.0pF	±0.25pF	311-1093-1-ND	.81	4.81	13.88	311-1093-2-ND	4,000	13.32/M	0805CG409C9B200
		50	.50pF	±0.25pF	311-1094-1-ND	.86	5.07	14.63	311-1094-2-ND	4,000	14.04/M	0805CG508C9B200
		50	6.0pF	±0.5pF	311-1095-1-ND	.81	4.81	13.88	311-1095-2-ND	4,000	13.32/M	0805CG609D9B200
		50	7.0pF	±0.5pF	311-1096-1-ND	.81	4.81	13.88	311-1096-2-ND	4,000	13.32/M	0805CG709D9B200
		50	8.0pF	±0.5pF	311-1097-1-ND	.81	4.81	13.88	311-1097-2-ND	4,000	13.32/M	0805CG809D9B200
		50	9.0pF	±0.5pF	311-1098-1-ND	.81	4.81	13.88	311-1098-2-ND	4,000	13.32/M	0805CG909D9B200
		50	10pF	±5%	311-1099-1-ND	.66	3.90	11.25	311-1099-2-ND	4,000	10.80/M	0805CG100J9B200
		50	12pF	±5%	311-1100-1-ND	.75	4.42	12.75	311-1100-2-ND	4,000	12.24/M	0805CG120J9B200
		50	15pF	±5%	311-1101-1-ND	.75	4.42	12.75	311-1101-2-ND	4,000	12.24/M	0805CG150J9B200
		50	18pF	±5%	311-1102-1-ND	.75	4.42	12.75	311-1102-2-ND	4,000	12.24/M	0805CG180J9B200
		50	22pF	±5%	311-1103-1-ND	.75	4.42	12.75	311-1103-2-ND	4,000	12.24/M	0805CG220J9B200
		50	27pF	±5%	311-1104-1-ND	.75	4.42	12.75	311-1104-2-ND	4,000	12.24/M	0805CG270J9B200
		50	33pF	±5%	311-1105-1-ND	.76	4.49	12.94	311-1105-2-ND	4,000	12.42/M	0805CG330J9B200
		50	39pF	±5%	311-1106-1-ND	.77	4.55	13.13	311-1106-2-ND	4,000	12.60/M	0805CG390J9B200
		50	47pF	±5%	311-1107-1-ND	.78	4.62	13.31	311-1107-2-ND	4,000	12.78/M	0805CG470J9B200
		50	56pF	±5%	311-1108-1-ND	.81	4.81	13.88	311-1108-2-ND	4,000	13.32/M	0805CG560J9B200
		50	68pF	±5%	311-1109-1-ND	.83	4.88	14.06	311-1109-2-ND	4,000	13.50/M	0805CG680J9B200
		50	82pF	±5%	311-1110-1-ND	.99	5.85	16.88	311-1110-2-ND	4,000	16.20/M	0805CG820J9B200
		50	100pF	±5%	311-1111-1-ND	.95	5.62	16.20	311-1111-2-ND	4,000	15.56/M	0805CG101J9B200
		50	120pF	±5%	311-1112-1-ND	.97	5.72	16.50	311-1112-2-ND	4,000	15.84/M	0805CG121J9B200
		50	150pF	±5%	311-1113-1-ND	.97	5.72	16.50	311-1113-2-ND	4,000	15.84/M	0805CG151J9B200
		50	180pF	±5%	311-1114-1-ND	.99	5.85	16.88	311-1114-2-ND	4,000	16.20/M	0805CG181J9B200
		50	220pF	±5%	311-1115-1-ND	.99	5.85	16.88	311-1115-2-ND	4,000	16.20/M	0805CG221J9B200
		50	270pF	±5%	311-1116-1-ND	.76	4.59	15.12	311-1116-2-ND	4,000	16.20/M	0805CG271J9B200
		50	330pF	±5%	311-1117-1-ND	1.01	5.98	17.25	311-1117-2-ND	4,000	16.56/M	0805CG331J9B200
		50	390pF	±5%	311-1118-1-ND	.70	4.25	14.00	311-1118-2-ND	4,000	15.00/M	0805CG391J9B200
		50	470pF	±5%	311-1119-1-ND	.77	4.68	15.40	311-1119-2-ND	4,000	16.50/M	0805CG471J9B200
		50	560pF	±5%	311-1120-1-ND	.84	5.10	16.80	311-1120-2-ND	4,000	18.00/M	0805CG561J9B200
		50	680pF	±5%	311-1121-1-ND	.92	5.61	18.48	311-1121-2-ND	4,000	19.80/M	0805CG681J9B200
		50	1000pF	±5%	311-1122-1-ND	1.05	6.38	21.00	311-1122-2-ND	4,000	22.50/M	0805CG102J9B200
	X7R	50	220pF	±10%	311-1123-1-ND	.61	3.58	10.31	311-1123-2-ND	4,000	9.90/M	08052R221K9B20D
		50	270pF	±10%	311-1191-1-ND	.77	4.55	13.13	311-1191-2-ND	4,000	12.60/M	08052R271K9B20D
		50	330pF	±10%	311-1192-1-ND	.77	4.55	13.13	311-1192-2-ND	4,000	12.60/M	08052R331K9B20D
		50	390pF	±10%	311-1193-1-ND	.77	4.55	13.13	311-1193-2-ND	4,000	12.60/M	08052R391K9B20D
		50	470pF	±10%	311-1124-1-ND	.64	3.77	10.88	311-1124-2-ND	4,000	10.44/M	08052R471K9B20D
		50	560pF	±10%	311-1125-1-ND	.64	3.77	10.88	311-1125-2-ND	4,000	10.44/M	08052R561K9B20D
		50	680pF	±10%	311-1126-1-ND	.64	3.77	10.88	311-1126-2-ND	4,000	10.44/M	08052R681K9B20D
		50	820pF	±10%	311-1194-1-ND	.77	4.55	13.13	311-1194-2-ND	4,000	12.60/M	08052R821K9B20D
		50	1000pF	±10%	311-1127-1-ND	.64	3.77	10.88	311-1127-2-ND	4,000	10.44/M	08052R102K9B20D
		50	1500pF	±10%	311-1128-1-ND	.64	3.77	10.88	311-1128-2-ND	4,000	10.44/M	08052R152K9B20D
		50	2200pF	±10%	311-1129-1-ND	.61	3.58	10.31	311-1129-2-ND	4,000	9.90/M	08052R222K9B20D
		50	2700pF	±10%	311-1130-1-ND	.61	3.58	10.31	311-1130-2-ND	4,000	9.90/M	08052R272K9B20D
		50	3300pF	±10%	311-1131-1-ND	.64	3.77	10.88	311-1131-2-ND	4,000	10.44/M	08052R332K9B20D
		50	3900pF	±10%	311-1132-1-ND	.64	3.77	10.88	311-1132-2-ND	4,000	10.44/M	08052R392K9B20D
		50	4700pF	±10%	311-1133-1-ND	.64	3.77	10.88	311-1133-2-ND	4,000	10.44/M	08052R472K9B20D

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YAGEO AMERICA

Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812 *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel		Yageo America
					Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0805	X7R	50	5600pF	±10%	311-1134-1-ND	.64	3.77	10.88	311-1134-2-ND	4,000	10.44/M	08052R562K9B20D
		50	6800pF	±10%	311-1135-1-ND	.64	3.77	10.88	311-1135-2-ND	4,000	10.44/M	08052R682K9B20D
		50	10000pF	±10%	311-1136-1-ND	.66	3.90	11.25	311-1136-2-ND	4,000	10.80/M	08052R103K9B20D
		50	18000pF	±10%	311-1137-1-ND	.66	3.90	11.25	311-1137-2-ND	4,000	10.80/M	08052R183K9B20D
		50	22000pF	±10%	311-1138-1-ND	.77	4.55	13.13	311-1138-2-ND	4,000	12.60/M	08052R223K9B20D
		50	27000pF	±10%	311-1139-1-ND	.83	4.88	14.06	311-1139-2-ND	4,000	13.50/M	08052R273K9B20D
		50	.10µF	±10%	311-1140-1-ND	.91	5.53	18.20	311-1140-2-ND	3,000	19.50/M	08052R104K9BB0D
		25	.10µF	±10%	311-1141-1-ND	.84	5.10	16.80	311-1141-2-ND	4,000	18.00/M	08052R104K8B20D
		16	.10µF	±10%	311-1142-1-ND	.77	4.68	15.40	311-1142-2-ND	4,000	16.50/M	08052R104K7B20D
		50	15000pF	±10%	311-1143-1-ND	.66	3.90	11.25	311-1143-2-ND	4,000	10.80/M	08052R153K9B20D
	Y5V	10	3.3uF	±20%+80%	311-1190-1-ND	1.75	11.78	39.90	311-1190-2-ND	3,000	51.30/M	08052F335Z6BB0D
1206	NP0	50	.5pF	±0.25pF	311-1145-1-ND	.98	5.95	19.60	311-1145-2-ND	4,000	21.00/M	1206CG508C9B200
		50	1pF	±0.25pF	311-1212-1-ND	.92	6.20	21.00	311-1212-2-ND	4,000	27.00/M	1206CG109C9B200
		50	1.5pF	±0.25pF	311-1214-1-ND	.92	6.20	21.00	311-1214-2-ND	4,000	27.00/M	1206CG159C9B200
		50	1.8pF	±0.25pF	311-1215-1-ND	.92	6.20	21.00	311-1215-2-ND	4,000	27.00/M	1206CG189C9B200
		50	2.2pF	±0.25pF	311-1146-1-ND	.95	5.78	19.04	311-1146-2-ND	4,000	20.40/M	1206CG229C9B200
		50	2.7pF	±0.25pF	311-1216-1-ND	.92	6.20	21.00	311-1216-2-ND	4,000	27.00/M	1206CG279C9B200
		50	3.3pF	±0.25pF	311-1147-1-ND	.95	5.74	18.90	311-1147-2-ND	4,000	20.25/M	1206CG339C9B200
		50	3.9pF	±0.25pF	311-1217-1-ND	.92	6.20	21.00	311-1217-2-ND	4,000	27.00/M	1206CG399C9B200
		50	4.7pF	±0.25pF	311-1218-1-ND	.92	6.20	21.00	311-1218-2-ND	4,000	27.00/M	1206CG479C9B200
		50	5.1pF	±0.25pF	311-1148-1-ND	1.02	6.16	20.30	311-1148-2-ND	4,000	21.75/M	1206CG519C9B200
		50	5.6pF	±0.25pF	311-1149-1-ND	.95	5.74	18.90	311-1149-2-ND	4,000	20.25/M	1206CG569C9B200
		50	6.8pF	±0.5pF	311-1220-1-ND	.92	6.20	21.00	311-1220-2-ND	4,000	27.00/M	1206CG689D9B200
		50	7.5pF	±0.5pF	311-1221-1-ND	1.15	7.75	26.25	311-1221-2-ND	4,000	33.75/M	1206CG759D9B200
		50	8.2pF	±0.5pF	311-1222-1-ND	.92	6.20	21.00	311-1222-2-ND	4,000	27.00/M	1206CG829D9B200
		50	9.1pF	±0.5pF	311-1223-1-ND	1.15	7.75	26.25	311-1223-2-ND	4,000	33.75/M	1206CG919D9B200
		50	10pF	±5%	311-1150-1-ND	.90	5.48	18.06	311-1150-2-ND	4,000	19.35/M	1206CG100J9B200
		50	12pF	±5%	311-1213-1-ND	1.33	8.08	26.60	311-1213-2-ND	4,000	28.50/M	1206CG120J9B200
		50	15pF	±5%	311-1151-1-ND	.90	5.48	18.06	311-1151-2-ND	4,000	19.35/M	1206CG150J9B200
		50	18pF	±5%	311-1152-1-ND	.90	5.48	18.06	311-1152-2-ND	4,000	19.35/M	1206CG180J9B200
		50	20pF	±5%	311-1153-1-ND	.95	5.74	18.90	311-1153-2-ND	4,000	20.25/M	1206CG200J9B200
		50	22pF	±5%	311-1154-1-ND	.90	5.48	18.06	311-1154-2-ND	4,000	19.35/M	1206CG220J9B200
		50	27pF	±5%	311-1155-1-ND	.90	5.48	18.06	311-1155-2-ND	4,000	19.35/M	1206CG270J9B200
		50	33pF	±5%	311-1156-1-ND	.90	5.48	18.06	311-1156-2-ND	4,000	19.35/M	1206CG330J9B200
		50	39pF	±5%	311-1157-1-ND	.98	5.95	19.60	311-1157-2-ND	4,000	21.00/M	1206CG390J9B200
		50	47pF	±5%	311-1158-1-ND	.98	5.95	19.60	311-1158-2-ND	4,000	21.00/M	1206CG470J9B200
		50	51pF	±5%	311-1219-1-ND	1.56	10.54	35.70	311-1219-2-ND	4,000	45.90/M	1206CG510J9B200
		50	56pF	±5%	311-1159-1-ND	1.05	6.38	21.00	311-1159-2-ND	4,000	22.50/M	1206CG560J9B200
		50	68pF	±5%	311-1160-1-ND	1.12	6.80	22.40	311-1160-2-ND	4,000	24.00/M	1206CG680J9B200
		50	100pF	±5%	311-1161-1-ND	1.05	6.38	21.00	311-1161-2-ND	4,000	22.50/M	1206CG101J9B200
		50	120pF	±5%	311-1162-1-ND	1.12	6.80	22.40	311-1162-2-ND	4,000	24.00/M	1206CG121J9B200
		50	1000pF	±5%	311-1163-1-ND	1.10	7.44	25.20	311-1163-2-ND	4,000	32.40/M	1206CG102J9B200
	X7R	1KV	1000pF	±10%	311-1144-1-ND	2.98	21.25	76.50	311-1144-2-ND	3,000	110.50/M	12062R102KEBB00
		50	220pF	±10%	311-1164-1-ND	.90	5.48	18.06	311-1164-2-ND	4,000	19.35/M	12062R221K9B20D
		50	270pF	±10%	311-1165-1-ND	.90	5.48	18.06	311-1165-2-ND	4,000	19.35/M	12062R271K9B20D
		50	330pF	±10%	311-1166-1-ND	.90	5.48	18.06	311-1166-2-ND	4,000	19.35/M	12062R331K9B20D
		50	390pF	±10%	311-1205-1-ND	.98	5.95	19.60	311-1205-2-ND	4,000	21.00/M	12062R391K9B20D
		50	470pF	±10%	311-1167-1-ND	.84	5.10	16.80	311-1167-2-ND	4,000	18.00/M	12062R471K9B20D
		50	560pF	±10%	311-1168-1-ND	.84	5.10	16.80	311-1168-2-ND	4,000	18.00/M	12062R561K9B20D
		50	680pF	±10%	311-1169-1-ND	.84	5.10	16.80	311-1169-2-ND	4,000	18.00/M	12062R681K9B20D
		50	820pF	±10%	311-1210-1-ND	.98	5.95	19.60	311-1210-2-ND	4,000	21.00/M	12062R821K9B20D
		50	1000pF	±10%	311-1170-1-ND	.84	5.10	16.80	311-1170-2-ND	4,000	18.00/M	12062R102K9B20D
		50	1200pF	±10%	311-1197-1-ND	.98	5.95	19.60	311-1197-2-ND	4,000	21.00/M	12062R122K9B20D
		50	1500pF	±10%	311-1200-1-ND	.98	5.95	19.60	311-1200-2-ND	4,000	21.00/M	12062R152K9B20D
		50	1800pF	±10%	311-1201-1-ND	.98	5.95	19.60	311-1201-2-ND	4,000	21.00/M	12062R182K9B20D
		50	2200pF	±10%	311-1171-1-ND	.90	5.48	18.06	311-1171-2-ND	4,000	19.35/M	12062R222K9B20D
		50	2700pF	±10%	311-1203-1-ND	.98	5.95	19.60	311-1203-2-ND	4,000	21.00/M	12062R272K9B20D
		50	3300pF	±10%	311-1172-1-ND	.90	5.48	18.06	311-1172-2-ND	4,000	19.35/M	12062R332K9B20D
		50	3900pF	±10%	311-1206-1-ND	.98	5.95	19.60	311-1206-2-ND	4,000	21.00/M	12062R392K9B20D
		50	4700pF	±10%	311-1173-1-ND	.84	5.10	16.80	311-1173-2-ND	4,000	18.00/M	12062R472K9B20D
		50	5600pF	±10%	311-1208-1-ND	1.05	6.38	21.00	311-1208-2-ND	4,000	22.50/M	12062R562K9B20D
		50	6800pF	±10%	311-1209-1-ND	1.05	6.38	21.00	311-1209-2-ND	4,000	22.50/M	12062R682K9B20D
		50	8200pF	±10%	311-1211-1-ND	1.12	6.80	22.40	311-1211-2-ND	4,000	24.00/M	12062R822K9B20D
		50	10000pF	±10%	311-1174-1-ND	.84	5.10	16.80	311-1174-2-ND	4,000	18.00/M	12062R103K9B20D
		50	12000pF	±10%	311-1198-1-ND	1.33	8.08	26.60	311-1198-2-ND	4,000	28.50/M	12062R123K9B20D
		50	15000pF	±10%	311-1175-1-ND	.90	5.48	18.06	311-1175-2-ND	4,000	19.35/M	12062R153K9B20D
		50	18000pF	±10%	311-1202-1-ND	1.33	8.08	26.60	311-1202-2-ND	4,000	28.50/M	12062R183K9B20D
		50	22000pF	±10%	311-1176-1-ND	.97	5.91	19.46	311-1176-2-ND	4,000	20.85/M	12062R223K9B20D
		50	27000pF	±10%	311-1204-1-ND	.92	6.20	21.00	311-1204-2-ND	4,000	27.00/M	12062R273K9B20D
		50	33000pF	±10%	311-1177-1-ND	.90	5.48	18.06	311-1177-2-ND	4,000	19.35/M	12062R333K9B20D
		50	39000pF	±10%	311-1207-1-ND	.92	6.20	21.00	311-1207-2-ND	4,000	27.00/M	12062R393K9B20D
		50	47000pF	±10%	311-1178-1-ND	1.04	6.33	20.86	311-1178-2-ND	4,000	22.35/M	12062R473K9B20D
		50	.10µF	±10%	311-1179-1-ND	.98	5.95	19.60	311-1179-2-ND	4,000	21.00/M	12062R104K9B20D
		25	.33µF	±10%	311-1180-1-ND	2.30	16.23	56.05	311-1180-2-ND	3,000	76.70/M	12062R334K8BB0D
		16	1.0µF	±10%	311-1181-1-ND	2.45	17.50	63.00	311-1181-2-ND	3,000	91.00/M	12062R105K7BB0D
		10	1.2uF	±10%	311-1199-1-ND	3.08	22.00	79.20	311-1199-2-ND	3,000	114.40/M	12062R125K6B20D
	Y5V	16	3.3uF	±20%+80%	311-1196-1-ND	1.75	11.78	39.90	311-1196-2-ND	3,000	51.30/M	12062F335Z7BB0D
1812	NP0	3KV	220pF	±5%	311-1182-1-ND	6.08	44.65	161.50	311-1182-2-ND	1,500	247.00/M	1812CG221JGBB00
	X7R	1KV	1000pF	±10%	311-1183-1-ND	4.42	32.43	117.30	311-1183-2-ND	1,000	179.40	18122R102KEBB00

COMPONENTS

Surface Mount Multilayer Ceramic Chip Capacitors

Features:

- High capacitance per unit volume
- For high frequency applications
- Ni-barrier terminations.

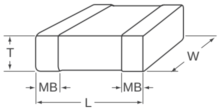
Applications:

- Consumer electronics
- Telecommunications
- Automotive
- Data processing.

The capacitor consists of a rectangular block of ceramic dielectric in which a number of interleaved metal electrodes are contained.

This structure gives rise to a high capacitance per unit volume.

The inner electrodes are connected to the two terminations by silver or copper dipping with a barrier layer of plated nickel and finally covered with a layer of plated tin (NiSn).



Case Size	L	W	T Min.	T Max.	MB
0402	.040" (1.0mm)	.020" (0.5mm)	.018" (.45mm)	.022" (.55mm)	.010" (.25mm)
0603	.063" (1.6mm)	.030" (0.8mm)	.029" (.73mm)	.035" (.87mm)	.015" (.40mm)
0805	.080" (2.0mm)	.050" (1.25mm)	.020" (.50mm)	.053" (1.35mm)	.020" (.50mm)
1206	.125" (3.2mm)	.063" (1.60mm)	.020" (.50mm)	.069" (1.75mm)	.025" (.60mm)
1812	.180" (4.5mm)	.125" (3.2mm)	.020" (.50mm)	.072" (1.80mm)	.030" (.75mm)

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	BC Components Part No.
0402	NPO	50	1.2pF	±0.25pF	BC1188CT-ND	.59	3.51	10.13	BC1188TR-ND	10,000	8.10/M	0402N1R2C500NT
		50	1.5pF	±0.25pF	BC1189CT-ND	.66	3.90	11.25	BC1189TR-ND	10,000	9.00/M	0402N1R5C500NT
		50	1.8pF	±0.25pF	BC1190CT-ND	.55	3.25	9.38	BC1190TR-ND	10,000	7.50/M	0402N1R8C500NT
		50	2.7pF	±0.25pF	BC1191CT-ND	.66	3.90	11.25	BC1191TR-ND	10,000	9.00/M	0402N2R7C500NT
		50	3.3pF	±0.25pF	BC1192CT-ND	.59	3.51	10.13	BC1192TR-ND	10,000	8.10/M	0402N3R3C500NT
		50	5.6pF	±0.50pF	BC1193CT-ND	.59	3.51	10.13	BC1193TR-ND	10,000	8.10/M	0402N5R6D500NT
		50	8.2pF	±0.50pF	BC1194CT-ND	.62	3.64	10.50	BC1194TR-ND	10,000	8.40/M	0402N8R2D500NT
		50	10pF	±5%	BC1195CT-ND	.55	3.25	9.38	BC1195TR-ND	10,000	7.50/M	0402N100J500NT
		50	12pF	±5%	BC1196CT-ND	.55	3.25	9.38	BC1196TR-ND	10,000	7.50/M	0402N120J500NT
		50	22pF	±5%	BC1197CT-ND	.59	3.51	10.13	BC1197TR-ND	10,000	8.10/M	0402N220J500NT
		50	27pF	±5%	BC1198CT-ND	.66	3.90	11.25	BC1198TR-ND	10,000	9.00/M	0402N270J500NT
		50	33pF	±5%	BC1199CT-ND	.59	3.51	10.13	BC1199TR-ND	10,000	8.10/M	0402N330J500NT
		50	39pF	±5%	BC1200CT-ND	.59	3.51	10.13	BC1200TR-ND	10,000	8.10/M	0402N390J500NT
		50	47pF	±5%	BC1201CT-ND	.55	3.25	9.38	BC1201TR-ND	10,000	7.50/M	0402N470J500NT
		50	56pF	±5%	BC1202CT-ND	.62	3.64	10.50	BC1202TR-ND	10,000	8.40/M	0402N560J500NT
		50	82pF	±5%	BC1203CT-ND	.59	3.51	10.13	BC1203TR-ND	10,000	8.10/M	0402N820J500NT
		50	100pF	±5%	BC1204CT-ND	.66	3.90	11.25	BC1204TR-ND	10,000	9.00/M	0402N101J500NT
	X7R	50	220pF	±10%	BC1205CT-ND	.68	4.03	11.63	BC1205TR-ND	10,000	9.30/M	0402B221K500BT
		50	330pF	±10%	BC1206CT-ND	.68	4.03	11.63	BC1206TR-ND	10,000	9.30/M	0402B331K500BT
		50	470pF	±10%	BC1207CT-ND	.68	4.03	11.63	BC1207TR-ND	10,000	9.30/M	0402B471K500BT
		50	560pF	±10%	BC1208CT-ND	.68	4.03	11.63	BC1208TR-ND	10,000	9.30/M	0402B561K500BT
		50	680pF	±10%	BC1209CT-ND	.68	4.03	11.63	BC1209TR-ND	10,000	9.30/M	0402B681K500BT
		50	1000pF	±10%	BC1210CT-ND	.68	4.03	11.63	BC1210TR-ND	10,000	9.30/M	0402B102K500BT
		50	1200pF	±10%	BC1211CT-ND	.72	4.23	12.19	BC1211TR-ND	10,000	9.75/M	0402B122K500BT
		50	1500pF	±10%	BC1212CT-ND	.72	4.23	12.19	BC1212TR-ND	10,000	9.75/M	0402B152K500BT
		50	2200pF	±10%	BC1213CT-ND	.73	4.29	12.38	BC1213TR-ND	10,000	9.90/M	0402B222K500BT
		16	4700pF	±10%	BC1214CT-ND	.73	4.29	12.38	BC1214TR-ND	10,000	9.90/M	0402B472K160BT
		16	5600pF	±10%	BC1215CT-ND	.81	4.81	13.88	BC1215TR-ND	10,000	11.10/M	0402B562K160BT
		16	8200pF	±10%	BC1216CT-ND	.55	3.25	9.38	BC1216TR-ND	10,000	7.50/M	0402B822K160BT
		16	10000pF	±10%	BC1217CT-ND	.72	4.23	12.19	BC1217TR-ND	10,000	9.75/M	0402B103K160BT
	Y5V	16	10000pF	+80/-20%	BC1218CT-ND	.51	2.99	8.63	BC1218TR-ND	10,000	6.90/M	0402F103Z160BT
		16	22000pF	+80/-20%	BC1219CT-ND	.55	3.25	9.38	BC1219TR-ND	10,000	7.50/M	0402F223Z160BT
		16	33000pF	+80/-20%	BC1220CT-ND	.55	3.25	9.38	BC1220TR-ND	10,000	7.50/M	0402F333Z160BT
		16	47000pF	+80/-20%	BC1221CT-ND	.53	3.12	9.00	BC1221TR-ND	10,000	7.20/M	0402F473Z160BT
		16	.10µF	+80/-20%	BC1222CT-ND	.51	2.99	8.63	BC1222TR-ND	10,000	6.90/M	0402F104Z160BT
0603	NPO	50	1.0pF	±0.25pF	BC1223CT-ND	.59	3.51	10.13	BC1223TR-ND	4,000	9.72/M	0603N1R0C500NT
		50	1.5pF	±0.25pF	BC1224CT-ND	.62	3.64	10.50	BC1224TR-ND	4,000	10.08/M	0603N1R5C500NT
		50	10pF	±5%	BC1225CT-ND	.55	3.25	9.38	BC1225TR-ND	4,000	9.00/M	0603N100J500NT
		50	12pF	±5%	BC1226CT-ND	.55	3.25	9.38	BC1226TR-ND	4,000	9.00/M	0603N120J500NT
		50	15pF	±5%	BC1227CT-ND	.55	3.25	9.38	BC1227TR-ND	4,000	9.00/M	0603N150J500NT
		50	18pF	±5%	BC1228CT-ND	.55	3.25	9.38	BC1228TR-ND	4,000	9.00/M	0603N180J500NT
		50	22pF	±5%	BC1229CT-ND	.55	3.25	9.38	BC1229TR-ND	4,000	9.00/M	0603N220J500NT
		50	27pF	±5%	BC1230CT-ND	.61	3.58	10.31	BC1230TR-ND	4,000	9.90/M	0603N270J500NT
		50	33pF	±5%	BC1231CT-ND	.62	3.64	10.50	BC1231TR-ND	4,000	10.08/M	0603N330J500NT
		50	47pF	±5%	BC1232CT-ND	.59	3.51	10.13	BC1232TR-ND	4,000	9.72/M	0603N470J500NT
		50	56pF	±5%	BC1233CT-ND	.64	3.77	10.88	BC1233TR-ND	4,000	10.44/M	0603N560J500NT
		50	68pF	±5%	BC1234CT-ND	.64	3.77	10.88	BC1234TR-ND	4,000	10.44/M	0603N680J500NT
		50	82pF	±5%	BC1235CT-ND	.65	3.84	11.06	BC1235TR-ND	4,000	10.62/M	0603N820J500NT
		50	100pF	±5%	BC1236CT-ND	.57	3.38	9.75	BC1236TR-ND	4,000	9.36/M	0603N101J500NT
		50	120pF	±5%	BC1237CT-ND	.66	3.90	11.25	BC1237TR-ND	4,000	10.80/M	0603N121J500NT
		50	150pF	±5%	BC1238CT-ND	.72	4.23	12.19	BC1238TR-ND	4,000	11.70/M	0603N151J500NT
		50	180pF	±5%	BC1239CT-ND	.72	4.23	12.19	BC1239TR-ND	4,000	11.70/M	0603N181J500NT
		50	220pF	±5%	BC1240CT-ND	.68	4.03	11.63	BC1240TR-ND	4,000	11.16/M	0603N221J500NT
		50	270pF	±5%	BC1241CT-ND	.79	4.68	13.50	BC1241TR-ND	4,000	12.96/M	0603N271J500NT
		50	330pF	±5%	BC1242CT-ND	.98	5.79	16.69	BC1242TR-ND	4,000	16.02/M	0603N331J500NT
		50	390pF	±5%	BC1243CT-ND	1.10	6.50	18.75	BC1243TR-ND	4,000	18.00/M	0603N391J500NT
	X7R	50	220pF	±10%	BC1244CT-ND	.50	2.93	8.44	BC1244TR-ND	4,000	8.10/M	0603B221K500NT
		50	470pF	±10%	BC1245CT-ND	.50	2.93	8.44	BC1245TR-ND	4,000	8.10/M	0603B471K500NT
		50	560pF	±10%	BC1246CT-ND	.50	2.93	8.44	BC1246TR-ND	4,000	8.10/M	0603B561K500NT
		50	1000pF	±10%	BC1247CT-ND	.59	3.51	10.13	BC1247TR-ND	4,000	9.72/M	0603B102K500BT
		50	2200pF	±10%	BC1248CT-ND	.50	2.93	8.44	BC1248TR-ND	4,000	8.10/M	0603B222K500NT
		50	3300pF	±10%	BC1249CT-ND	.55	3.25	9.38	BC1249TR-ND	4,000	9.00/M	0603B332K500NT
		50	4700pF	±10%	BC1250CT-ND	.55	3.25	9.38	BC1250TR-ND	4,000	9.00/M	0603B472K500BT
		50	6800pF	±10%	BC1251CT-ND	.55	3.25	9.38	BC1251TR-ND	4,000	9.00/M	0603B682K500BT
		50	10000pF	±10%	BC1252CT-ND	.55	3.25	9.38	BC1252TR-ND	4,000	9.00/M	0603B103K500BT

(Continued)

Surface Mount Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		BC Components Part No.
						10	100	500		Size	Pricing	
0603	X7R	16	22000pF	±10%	BC1253CT-ND	.69	4.10	11.81	BC1253TR-ND	4,000	11.34/M	0603B223K160BT
		16	.10µF	±10%	BC1254CT-ND	.77	4.55	13.13	BC1254TR-ND	4,000	12.60/M	0603B104K160BT
	Y5V	25	.10µF	+80/-20%	BC1255CT-ND	.58	3.45	9.94	BC1255TR-ND	4,000	9.54/M	0603F104Z250BT
0805	NPO	50	10pF	±5%	BC1256CT-ND	.61	3.58	10.31	BC1256TR-ND	4,000	9.90/M	0805N100J500NT
		50	12pF	±5%	BC1257CT-ND	.69	4.06	11.72	BC1257TR-ND	4,000	11.25/M	0805N120J500NT
		50	15pF	±5%	BC1258CT-ND	.69	4.10	11.81	BC1258TR-ND	4,000	11.34/M	0805N150J500NT
		50	18pF	±5%	BC1259CT-ND	.69	4.06	11.72	BC1259TR-ND	4,000	11.25/M	0805N180J500NT
		50	22pF	±5%	BC1260CT-ND	.63	3.71	10.69	BC1260TR-ND	4,000	10.26/M	0805N220J500NT
		50	27pF	±5%	BC1261CT-ND	.69	4.06	11.72	BC1261TR-ND	4,000	11.25/M	0805N270J500NT
		50	33pF	±5%	BC1262CT-ND	.69	4.06	11.72	BC1262TR-ND	4,000	11.25/M	0805N330J500NT
		50	39pF	±5%	BC1263CT-ND	.69	4.06	11.72	BC1263TR-ND	4,000	11.25/M	0805N390J500NT
		50	47pF	±5%	BC1264CT-ND	.63	3.71	10.69	BC1264TR-ND	4,000	10.26/M	0805N470J500NT
		50	56pF	±5%	BC1265CT-ND	.69	4.06	11.72	BC1265TR-ND	4,000	11.25/M	0805N560J500NT
		50	68pF	±5%	BC1266CT-ND	.69	4.06	11.72	BC1266TR-ND	4,000	11.25/M	0805N680J500NT
		50	82pF	±5%	BC1267CT-ND	.69	4.06	11.72	BC1267TR-ND	4,000	11.25/M	0805N820J500NT
		50	100pF	±5%	BC1268CT-ND	.69	4.06	11.72	BC1268TR-ND	4,000	11.25/M	0805N101J500NT
		50	120pF	±5%	BC1269CT-ND	.94	5.53	15.94	BC1269TR-ND	4,000	15.30/M	0805N121J500NT
		50	150pF	±5%	BC1270CT-ND	.91	5.40	15.56	BC1270TR-ND	4,000	14.94/M	0805N151J500NT
		50	180pF	±5%	BC1271CT-ND	.94	5.53	15.94	BC1271TR-ND	4,000	15.30/M	0805N181J500NT
		50	220pF	±5%	BC1272CT-ND	.94	5.53	15.94	BC1272TR-ND	4,000	15.30/M	0805N221J500NT
		50	270pF	±5%	BC1273CT-ND	1.08	6.37	18.38	BC1273TR-ND	4,000	17.64/M	0805N271J500NT
		50	330pF	±5%	BC1274CT-ND	.98	5.79	16.69	BC1274TR-ND	4,000	16.02/M	0805N331J500NT
		50	390pF	±5%	BC1275CT-ND	1.01	5.98	17.25	BC1275TR-ND	4,000	16.56/M	0805N391J500NT
		50	470pF	±5%	BC1276CT-ND	1.10	6.50	18.75	BC1276TR-ND	4,000	18.00/M	0805N471J500NT
		50	560pF	±5%	BC1277CT-ND	1.18	6.96	20.06	BC1277TR-ND	4,000	19.26/M	0805N561J500NT
		50	680pF	±5%	BC1278CT-ND	1.40	8.26	23.81	BC1278TR-ND	4,000	22.86/M	0805N681J500NT
		50	1000pF	±5%	BC1279CT-ND	1.54	9.10	26.25	BC1279TR-ND	4,000	25.20/M	0805N102J500NT
	X7R	50	220pF	±10%	BC1280CT-ND	.55	3.25	9.38	BC1280TR-ND	4,000	9.00/M	0805B221K500NT
		50	470pF	±10%	BC1281CT-ND	.58	3.45	9.94	BC1281TR-ND	4,000	9.54/M	0805B471K500NT
		50	560pF	±10%	BC1282CT-ND	.58	3.45	9.94	BC1282TR-ND	4,000	9.54/M	0805B561K500NT
		50	680pF	±10%	BC1283CT-ND	.58	3.45	9.94	BC1283TR-ND	4,000	9.54/M	0805B681K500NT
		50	1000pF	±10%	BC1284CT-ND	.58	3.45	9.94	BC1284TR-ND	4,000	9.54/M	0805B102K500NT
		50	1500pF	±10%	BC1285CT-ND	.58	3.45	9.94	BC1285TR-ND	4,000	9.54/M	0805B152K500NT
		50	2200pF	±10%	BC1286CT-ND	.55	3.25	9.38	BC1286TR-ND	4,000	9.00/M	0805B222K500NT
		50	2700pF	±10%	BC1287CT-ND	.55	3.25	9.38	BC1287TR-ND	4,000	9.00/M	0805B272K500NT
		50	3300pF	±10%	BC1288CT-ND	.58	3.45	9.94	BC1288TR-ND	4,000	9.54/M	0805B332K500NT
		50	3900pF	±10%	BC1289CT-ND	.58	3.45	9.94	BC1289TR-ND	4,000	9.54/M	0805B392K500NT
		50	4700pF	±10%	BC1290CT-ND	.69	4.10	11.81	BC1290TR-ND	4,000	11.34/M	0805B472K500NT
		50	5600pF	±10%	BC1291CT-ND	.58	3.45	9.94	BC1291TR-ND	4,000	9.54/M	0805B562K500NT
		50	6800pF	±10%	BC1292CT-ND	.58	3.45	9.94	BC1292TR-ND	4,000	9.54/M	0805B682K500NT
		50	10000pF	±10%	BC1293CT-ND	.61	3.58	10.31	BC1293TR-ND	4,000	9.90/M	0805B103K500BT
		50	15000pF	±10%	BC1294CT-ND	.77	4.55	13.13	BC1294TR-ND	4,000	12.60/M	0805B153K500BT
		50	18000pF	±10%	BC1295CT-ND	.77	4.55	13.13	BC1295TR-ND	4,000	12.60/M	0805B183K500BT
		50	22000pF	±10%	BC1296CT-ND	.88	5.20	15.00	BC1296TR-ND	4,000	14.40/M	0805B223K500BT
		50	27000pF	±10%	BC1297CT-ND	.94	5.53	15.94	BC1297TR-ND	4,000	15.30/M	0805B273K500BT
		50	.10µF	±10%	BC1298CT-ND	1.32	7.80	22.50	BC1298TR-ND	3,000	21.60/M	0805B104K500BP
		25	.10µF	±10%	BC1299CT-ND	1.21	7.15	20.63	BC1299TR-ND	4,000	19.80/M	0805B104K250BT
		16	.10µF	±10%	BC1300CT-ND	.79	4.68	13.50	BC1300TR-ND	4,000	12.96/M	0805B104K160BT
1206	NPO	50	2.2pF	±0.25pF	BC1301CT-ND	1.46	8.65	24.94	BC1301TR-ND	4,000	23.94/M	1206N2R2C500NT
		50	3.3pF	±0.25pF	BC1302CT-ND	1.46	8.65	24.94	BC1302TR-ND	4,000	23.94/M	1206N3R3C500NT
		50	5.6pF	±0.25pF	BC1303CT-ND	3.14	18.53	53.44	BC1303TR-ND	4,000	51.30/M	1206N5R6C500NT
		50	10pF	±5%	BC1304CT-ND	1.38	8.13	23.44	BC1304TR-ND	4,000	22.50/M	1206N100J500NT
		50	15pF	±5%	BC1305CT-ND	1.38	8.13	23.44	BC1305TR-ND	4,000	22.50/M	1206N150J500NT
		50	18pF	±5%	BC1306CT-ND	1.38	8.13	23.44	BC1306TR-ND	4,000	22.50/M	1206N180J500NT
		50	22pF	±5%	BC1307CT-ND	1.38	8.13	23.44	BC1307TR-ND	4,000	22.50/M	1206N220J500NT
		50	27pF	±5%	BC1308CT-ND	1.38	8.13	23.44	BC1308TR-ND	4,000	22.50/M	1206N270J500NT
		50	33pF	±5%	BC1309CT-ND	1.38	8.13	23.44	BC1309TR-ND	4,000	22.50/M	1206N330J500NT
		50	39pF	±5%	BC1310CT-ND	1.49	8.78	25.31	BC1310TR-ND	4,000	24.30/M	1206N390J500NT
		50	47pF	±5%	BC1311CT-ND	1.49	8.78	25.31	BC1311TR-ND	4,000	24.30/M	1206N470J500NT
		50	56pF	±5%	BC1312CT-ND	1.60	9.43	27.19	BC1312TR-ND	4,000	26.10/M	1206N560J500NT
		50	68pF	±5%	BC1313CT-ND	1.72	10.14	29.25	BC1313TR-ND	4,000	28.08/M	1206N680J500NT
		50	100pF	±5%	BC1314CT-ND	1.54	9.10	26.25	BC1314TR-ND	4,000	25.20/M	1206N101J500NT
		50	120pF	±5%	BC1315CT-ND	1.71	10.08	29.06	BC1315TR-ND	4,000	27.90/M	1206N121J500NT
		50	1000pF	±5%	BC1316CT-ND	2.42	14.30	41.25	BC1316TR-ND	4,000	39.60/M	1206N102J500NT
	X7R	50	1000pF	±10%	BC1317CT-ND	1.27	7.48	21.56	BC1317TR-ND	4,000	20.70/M	1206B102K500NT
		50	2200pF	±10%	BC1318CT-ND	1.38	8.13	23.44	BC1318TR-ND	4,000	22.50/M	1206B222K500NT
		50	3300pF	±10%	BC1319CT-ND	1.38	8.13	23.44	BC1319TR-ND	4,000	22.50/M	1206B332K500NT
		50	4700pF	±10%	BC1320CT-ND	1.30	7.67	22.13	BC1320TR-ND	4,000	21.24/M	1206B472K500NT
		50	10000pF	±10%	BC1321CT-ND	1.32	7.80	22.50	BC1321TR-ND	4,000	21.60/M	1206B103K500NT
		50	15000pF	±10%	BC1322CT-ND	1.42	8.39	24.19	BC1322TR-ND	4,000	23.22/M	1206B153K500NT
		50	22000pF	±10%	BC1323CT-ND	1.49	8.78	25.31	BC1323TR-ND	4,000	24.30/M	1206B223K500BT
		50	33000pF	±10%	BC1324CT-ND	1.52	8.97	25.88	BC1324TR-ND	4,000	24.84/M	1206B333K500BT
		50	47000pF	±10%	BC1325CT-ND	1.61	9.49	27.38	BC1325TR-ND	4,000	26.28/M	1206B473K500BT
		50	.10µF	±10%	BC1326CT-ND	1.58	9.36	27.00	BC1326TR-ND	4,000	25.92/M	1206B104K500BT
		25	.33µF	±10%	BC1327CT-ND	5.89	34.78	100.31	BC1327TR-ND	3,000	96.30/M	1206B334K250BP
		16	1.0µF	±10%	BC1328CT-ND	7.48	44.20	127.50	BC1328TR-ND	3,000	122.40/M	1206B105K160BP
1812	X7R	1KV	1000pF	±10%	BC1329CT-ND	15.18	89.70	258.75	BC1329TR-ND	1,000	276.00	1812B102K102BP

CDE CORNELL DUBILIER Waldom ELECTRONICS

Surface Mount MICA Capacitors

Cornell Dubilier mica capacitors are made of pure India Ruby muscovite mica. It is among the most inert and stable materials in the universe. When used as the insulator (dielectric) in a capacitor, the result is an electronic component with the ultimate in stability and reliability.

The capacitance change from zero to full rated operating voltage is generally less than ±0.1%. The series inductance of these capacitors is as little as eight nanohenrys (nH). The stability characteristics also apply to frequency which is why mica capacitors are so useful in the gigahertz range.

Mica capacitors are so efficient that less that 0.05% of the applied volt-amperes is lost as heat. Dipped silver mica capacitors such as the Standard Types are manufactured by applying pure silver to ultra-thin mica plates. The plates are stacked and secured by brass clips with copper-clad steel leads welded to each clip. The extra mass of the metal acts as a heat sink and enables these capacitors to absorb voltage transients up to 100,000 volts per microsecond.

Type MC - High-Frequency, High Stability Chip for Instruments and RF

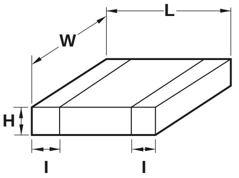
- Low impedance to beyond 1 GHz, • Near-zero capacitance change, all environments

SPECIFICATIONS:

Capacitance Tolerance:

- **Manufacture's part number suffix letter:** D = ±0.5pF
- **Manufacture's part number suffix letter:** J = ±5%

Temperature Range: -55°C to +125°C



Tape and Reel packaging available with lead time.

Size Code	Vdc	Temperature Coefficient ppm/°C	Capacitance	Dimension - Inch (mm) L	W	H	l (Max)	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
0805	100	100±100	2.0pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1034-ND	1.71	1.47	1.22	MC08CA020D
		100±100	3.0pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1014-ND	1.71	1.47	1.22	MC08CA030D
		100±100	5.0pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1027-ND	1.71	1.47	1.22	MC08CA050D
		100±100	10pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1010-ND	1.71	1.47	1.22	MC08CA100D
		50±50	15pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1009-ND	1.71	1.47	1.22	MC08EA150J
		50±50	20pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1012-ND	1.71	1.47	1.22	MC08EA200J
		50±50	22pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1037-ND	1.71	1.47	1.22	MC08EA220J
		50±50	27pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1031-ND	1.71	1.47	1.22	MC08EA270J
1210	100	25±25	47pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1017-ND	1.96	1.68	1.40	MC12FA470J
		25±25	68pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1041-ND	1.96	1.68	1.40	MC12FA680J
		25±25	100pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1001-ND	2.06	1.77	1.48	MC12FA101J
		25±25	150pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1007-ND	2.11	1.81	1.51	MC12FA151J
		25±25	150pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1028-ND†	5.07	4.35	3.63	MC12FA151F
		25±25	200pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1024-ND	2.26	1.94	1.62	MC12FA201J
		25±25	220pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1003-ND	2.26	1.94	1.62	MC12FA221J
		25±25	240pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1029-ND	2.26	1.94	1.62	MC12FA241J
1812	100	25±25	470pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1022-ND	3.11	2.67	2.23	MC18FA471J
2220	100	25±25	1000pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1008-ND	4.72	4.05	3.38	MC22FA102J
		25±25	2000pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1019-ND	6.38	5.47	4.56	MC22FA202J
1210	500	100±100	5.0pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1032-ND	2.06	1.77	1.48	MC12CD050D
		100±100	10pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1002-ND	2.06	1.77	1.48	MC12CD100D
		50±50	15pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1013-ND	2.11	1.81	1.51	MC12ED150J
		50±50	18pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1030-ND	2.11	1.81	1.51	MC12ED180J
		25±25	33pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1006-ND	2.11	1.81	1.51	MC12FD330J
		25±25	47pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1023-ND	2.11	1.81	1.51	MC12FD470J
		25±25	62pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1038-ND	2.11	1.81	1.51	MC12FD620J
		25±25	68pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1033-ND	2.11	1.81	1.51	MC12FD680J
		25±25	100pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1015-ND	2.56	2.20	1.83	MC12FD101J
1812	500	25±25	100pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1025-ND	2.56	2.20	1.83	MC18FD101J
		25±25	120pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1020-ND	2.56	2.20	1.83	MC18FD121J
		25±25	220pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1016-ND	2.86	2.46	2.05	MC18FD221J
		25±25	300pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1026-ND	3.21	2.76	2.30	MC18FD301J
		25±25	330pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1039-ND	3.21	2.76	2.30	MC18FD331J
		25±25	390pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1021-ND	3.51	3.02	2.52	MC18FD391J
		25±25	470pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1018-ND	3.51	3.02	2.52	MC18FD471J
2220	500	25±25	500pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1040-ND	4.42	3.79	3.16	MC22FD501J
		25±25	750pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1011-ND	4.87	4.18	3.48	MC22FD751J
		25±25	1000pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1004-ND	5.47	4.70	3.91	MC22FD102J
2220	1000	25±25	430pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1005-ND	4.90	4.20	3.50	MC22FF431J
		25±25	470pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1036-ND	4.90	4.20	3.50	MC22FF471J
		25±25	1000pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1035-ND	6.59	5.65	4.71	MC22FF102J

† 1% Tolerance

BC COMPONENTS

SMD Trimmer Capacitors

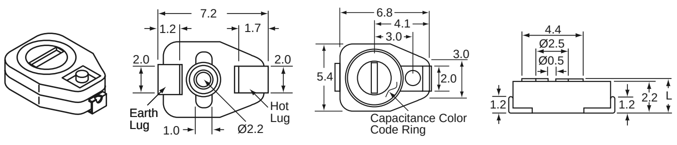
Film Dielectric Capacitors

Description:

SMD trimmer capacitors use a PTE Teflon film dielectric for excellent long-term stability and low temperature coefficient of capacitance. These units consist of brass rotors and stators separated by film dielectric and enclosed in a plastic case.

Specifications:

• Insulation Resistance between Stator and Rotor: 10,000MΩ min. • Voltage Rating: 100 VDC • Minimum Q @ 10MHz: 1000 • Temperature Coefficient: –100 ± 100 PPM/°C • Soldering Maximum: 260°C for 5 seconds • Operating Temperature Range: –40°C to +85°C • Effective Angle of Rotation: 360° • Operating Torque: 20 - 300 g.cm • Ratio of Maximum to Minimum Torque: Within 3:1



Capacitance (pF) Min.	Max.	Dim. L (mm)	Color Code	Digi-Key Part No.	Price Each 1	10	100	500	1,000	BC Components Part No.
0.3 ±0.2	5, -0.5/+3	2.2	Orange	2807S505-ND	1.68	1.46	1.32	1.12	.98	2807S0R505NHA4BAA
0.4 ±0.2	10, -1/+5	2.2	Black	2807S610-ND	1.68	1.46	1.32	1.12	.98	2807S0R610NHB4BAA
0.5 ±0.3	15, -0/+7	2.4	Blue	2807S815-ND	1.68	1.46	1.32	1.12	.98	2807S0R815NHC4BAA
0.7 ±0.3	20, -0/+10	2.55	Green	2807S020-ND	1.68	1.46	1.32	1.12	.98	2807S1R020NHD4BAA

Dipped Silver MICA Capacitors — Radial Lead

Cornell Dubilier mica capacitors are made of pure India Ruby muscovite mica. It is among the most inert and stable materials in the universe. When used as the insulator (dielectric) in a capacitor, the result is an electronic component with the ultimate in stability and reliability.

The capacitance change from zero to full rated operating voltage is generally less than ±0.1%. The series inductance of these capacitors is as little as eight nanohenrys (nH). The stability characteristics also apply to frequency which is why mica capacitors are so useful in the gigahertz range.

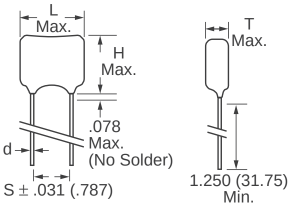
Mica capacitors are so efficient that less that 0.05% of the applied volt-amperes is lost as heat. Dipped silver mica capacitors such as the Standard Types are manufactured by applying pure silver to ultra-thin mica plates. The plates are stacked and secured by brass clips with copper-clad steel leads welded to each clip. The extra mass of the metal acts as a heat sink and enables these capacitors to absorb voltage transients up to 100,000 volts per microsecond.

SPECIFICATIONS:

Capacitance Tolerance:

- **Manufacture's part number letter:** D03 = ±1/2 pF
- **Manufacture's part number letter:** J03 = ±5%
- **Manufacture's part number letter:** F03 = ±1%

Temperature Range: -55°C to +125°C



			Dimension - Inch (mm)						Price Each			
Voltage	Capacitance	Temperature Coefficient ppm/°C	L Max	H Max	T Max	S	d	Digi-Key Part No.	1	10	100	Cornell Dubilier Part No.
						Standard						
100	1000pF	0 to +70	.480 (12.2)	.400 (10.2)	.230 (5.8)	.234 (5.9)	.025 (.6)	338-1048-ND	3.16	2.71	2.26	CD15FA102J03
	1000pF	0 to +70	.480 (12.2)	.400 (10.2)	.230 (5.8)	.234 (5.9)	.025 (.6)	338-1092-ND	5.38	4.61	3.85	CD15FA102F03
300	680pF	0 to +70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1060-ND	2.92	2.51	2.09	CD15FC681J03
	560pF	0 to +70	.460 (11.7)	.380 (9.7)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1081-ND	2.40	2.06	1.72	CD15FC561J03
500	5pF	-200 to +200	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1064-ND	1.78	1.53	1.28	CD10CD050D03
	10pF	-200 to +200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1061-ND	.94	.81	.68	CD15CD100J03
	10pF	-200 to +200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1068-ND	.94	.81	.68	CD15CD100D03
	15pF	-200 to +200	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1088-ND	1.78	1.53	1.28	CD10CD150J03
	15pF	-200 to +200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1054-ND	.90	.78	.65	CD15CD150J03
	20pF	-20 to +100	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1095-ND	1.33	1.15	.96	CD10ED200J03
	20pF	-20 to +100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1051-ND	.90	.78	.65	CD15ED200J03
	22pF	-20 to +100	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1070-ND	1.33	1.15	.96	CD10ED220J03
	22pF	-20 to +100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1049-ND	.94	.81	.68	CD15ED220J03
	27pF	-20 to +100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1085-ND	.94	.81	.68	CD15ED270J03
	30pF	-20 to +100	.370 (9.4)	.340 (8.6)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1076-ND	1.33	1.15	.96	CD10ED300J03
	30pF	-20 to +100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1056-ND	.94	.81	.68	CD15ED300J03
	33pF	-20 to +100	.370 (9.4)	.340 (8.6)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1072-ND	1.33	1.15	.96	CD10ED330J03
	33pF	-20 to +100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1047-ND	.94	.81	.68	CD15ED330J03
	39pF	-20 to +100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1093-ND	.94	.81	.68	CD15ED390J03
	47pF	-20 to +100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1053-ND	.93	.80	.67	CD15ED470J03
	68pF	-20 to +100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1091-ND	.95	.82	.68	CD15ED680J03
	100pF	0 to +70	.370 (9.4)	.350 (8.9)	.200 (5.1)	.141 (3.6)	.016 (.4)	338-1050-ND	1.65	1.42	1.18	CD10FD101J03
	100pF	0 to +70	.460 (11.7)	.360 (9.1)	.180 (4.6)	.234 (5.9)	.025 (.6)	338-1042-ND	.95	.82	.68	CD15FD101J03
	120pF	0 to +70	.460 (11.7)	.370 (9.4)	.180 (4.6)	.234 (5.9)	.025 (.6)	338-1058-ND	1.05	.90	.75	CD15FD121J03
	150pF	0 to +70	.460 (11.7)	.370 (9.4)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1052-ND	1.10	.95	.79	CD15FD151J03
	180pF	0 to +70	.460 (11.7)	.370 (9.4)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1082-ND	1.26	1.08	.90	CD15FD181J03
	200pF	0 to +70	.460 (11.7)	.380 (9.7)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1063-ND	1.26	1.08	.90	CD15FD201J03
	220pF	0 to +70	.460 (11.7)	.380 (9.7)	.200 (5.1)	.234 (5.9)	.025 (.6)	338-1046-ND	1.32	1.14	.95	CD15FD221J03
	240pF	0 to +70	.460 (11.7)	.380 (9.7)	.200 (5.1)	.234 (5.9)	.025 (.6)	338-1079-ND	1.41	1.22	1.01	CD15FD241J03
	270pF	0 to +70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1062-ND	1.54	1.32	1.10	CD15FD271J03
	300pF	0 to +70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1065-ND	1.65	1.42	1.18	CD15FD301J03
	330pF	0 to +70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1045-ND	1.79	1.54	1.29	CD15FD331J03
	390pF	0 to +70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1057-ND	1.95	1.68	1.40	CD15FD391J03
	470pF	0 to +70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1043-ND	2.27	1.95	1.63	CD15FD471J03
	470pF	0 to +70	.640 (16.3)	.510 (13.0)	.200 (5.1)	.344 (8.7)	.032 (.8)	338-1089-ND	2.07	1.78	1.48	CD19FD471J03
	500pF	0 to +70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1069-ND	2.30	1.98	1.65	CD15FD501J03
	510pF	0 to +70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1077-ND	2.40	2.06	1.72	CD15FD511J03
	680pF	0 to +70	.650 (16.5)	.510 (13.0)	.210 (5.3)	.344 (8.7)	.032 (.8)	338-1086-ND	2.43	2.09	1.74	CD19FD681J03
	820pF	0 to +70	.650 (16.5)	.510 (13.0)	.210 (5.3)	.344 (8.7)	.032 (.8)	338-1094-ND	2.41	2.07	1.72	CD19FD821J03
	1000pF	0 to +70	.650 (16.5)	.520 (13.2)	.220 (5.6)	.344 (8.7)	.025 (.6)	338-1044-ND	2.57	2.21	1.84	CD19FD102J03
	1500pF	0 to +70	.660 (16.8)	.520 (13.2)	.230 (5.8)	.344 (8.7)	.032 (.8)	338-1071-ND	3.33	2.86	2.39	CD19FD152J03
	2000pF	0 to +70	.670 (17.0)	.530 (13.5)	.240 (6.1)	.344 (8.7)	.032 (.8)	338-1074-ND	4.24	3.64	3.03	CD19FD202J03
	2200pF	0 to +70	.670 (17.0)	.530 (13.5)	.250 (6.4)	.344 (8.7)	.032 (.8)	338-1055-ND	4.26	3.65	3.04	CD19FD222J03
	4700pF	0 to +70	.700 (17.8)	.580 (14.7)	.350 (8.9)	.344 (8.7)	.032 (.8)	338-1067-ND	7.09	6.08	5.07	CD19FD472J03
	10000pF	0 to +70	.800 (20.3)	.890 (22.6)	.340 (8.6)	.438 (11.1)	.040 (1.0)	338-1078-ND	15.63	13.40	11.17	CD30FD103J03
						Miniature						
300	5pF	-200 to +200	.270 (6.9)	.190 (4.8)	.110 (2.8)	.120 (3.0)	.016 (.4)	338-1073-ND	1.94	1.67	1.39	CD5CC050D03
	10pF	-200 to +200	.270 (6.9)	.190 (4.8)	.110 (2.8)	.120 (3.0)	.016 (.4)	338-1090-ND	1.39	1.19	1.00	CD5CC100J03
	15pF	-200 to +200	.270 (6.9)	.190 (4.8)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1083-ND	1.44	1.24	1.03	CD5CC150J03
	20pF	-20 to +100	.270 (6.9)	.200 (5.1)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1075-ND	1.46	1.26	1.05	CD5EC200J03
	22pF	-20 to +100	.270 (6.9)	.200 (5.1)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1080-ND	1.53	1.32	1.10	CD5EC220J03
	30pF	-20 to +100	.270 (6.9)	.200 (5.1)	.130 (3.3)	.120 (3.0)	.016 (.4)	338-1087-ND	1.64	1.41	1.18	CD5EC300J03
	33pF	-20 to +100	.270 (6.9)	.200 (5.1)	.130 (3.3)	.120 (3.0)	.016 (.4)	338-1066-ND	1.70	1.46	1.22	CD5EC330J03
	47pF	-20 to +100	.270 (6.9)	.210 (5.3)	.140 (3.6)	.120 (3.0)	.016 (.4)	338-1084-ND	1.90	1.63	1.36	CD5EC470J03
	100pF	0 to +70	.270 (6.9)	.240 (6.1)	.180 (4.6)	.120 (3.0)	.016 (.4)	338-1059-ND	2.81	2.42	2.01	CD5FC101J03

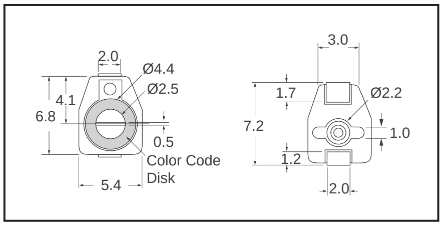
SPRAGUE GOODMAN

GSX Series SMD Trimmer Capacitors

SPECIFICATIONS:
• **Operating Temperature Range:** –25°C to 85°C • **Voltage Rating:** 100VDC • **Dielectric Withstanding Voltage:** 200VDC • **Insulation Resistance:** 10^4 MΩ min. • **Torque:** 20 to 300 g-cm (0.28 to 4.2 oz-in)

Capacitance (pF) Min.	Capacitance (pF) Max.	TCC (ppm / °C)	Q (min.) 10MHz	Color Code	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape/Reel Pricing 3,000	Sprague-Goodman Part No.
0.5	4.5	N100	1000	Orange	SG2018CT-ND	12.90	111.00	SG2018TR-ND	550.00/M	GSX364
0.6	9.0	N100	1000	Black	SG2017CT-ND	14.70	126.00	SG2017TR-ND	625.41/M	GSX358
0.8	15.0	N100	1000	Blue	SG2019CT-ND	16.30	140.00	SG2019TR-ND	700.00/M	GSX365
1.0	20.0	N100	1000	Green	SG2020CT-ND	23.44	200.94	SG2020TR-ND	1004.71/M	GSX366

SG9005-ND 4 x 4.5mm Type (SG1020 through SG1033) $13.00

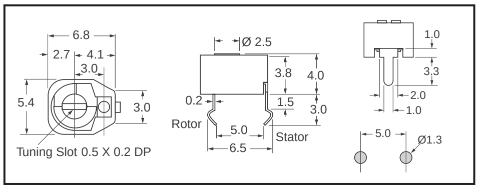


GCL Series Trimmer Capacitors

SPECIFICATIONS:
- **Operating Temperature Range:** -25°C to +85°C
- **Voltage Rating:** 50VDC
- **Dielectric Withstanding Voltage:** 100VDC
- **Insulation Resistance:** 500MΩ min.
- **Torque:** 0.21-3 oz-in (15-200 g-cm)

Capacitance (pF) Min.	Capacitance (pF) Max.	TCC (ppm / °C)	Q (min.) 1 MHz	Color Code	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sprague-Goodman Part No.
0.7	10.0	P350	1000	Brown	SG1034-ND	.58	5.00	35.00	GCL10000
0.8	20.0	P350	1000	Green	SG1035-ND	.58	5.00	35.00	GCL20000
0.9	30.0	P350	1000	Yellow	SG1036-ND	.85	7.30	51.00	GCL30000
1.0	40.0	P350	1000	Blue	SG1037-ND	.93	8.00	56.00	GCL40000

SG9005-ND 4 x 4.5mm Type (SG1020 through SG1033) $13.00



GKG Series Ceramic Trimmer Capacitors

Fig.	Capacitance (pF) Min.	Capacitance (pF) Max.	TCC (ppm / °C)	Q (min.)	Color Code	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sprague-Goodman Part No.
Top Adjust Ceramic Trimmer Capacitors										
1	4.0	20.0	N600±300	300	Red	SG1003-ND	.98	8.40	77.00	GKG20011
	6.5	40.0	N750±400	200	Yellow	SG1005-ND	.98	8.40	77.00	GKG40011
Top Adjust Ceramic Trimmer Capacitors										
2	1.7	3.0	0±200	300	Red Dot*	SG1020-ND	.56	4.80	44.00	GKG3R021
	2.5	6.0	0±200	500	Blue	SG1021-ND	.56	4.80	44.00	GKG6R021
	3.5	10.0	0±200	500	White	SG1022-ND	.56	4.80	44.00	GKG10021
	5.5	20.0	N900±350	500	Red	SG1023-ND	.56	4.80	44.00	GKG20021
	7.5	30.0	N1100±450	300	Green	SG1024-ND	.56	4.80	44.00	GKG30021
	15.0	50.0	N1700±500	300	Orange	SG1026-ND	.56	4.80	44.00	GKG50021
Top Adjust Ceramic Trimmer Capacitors										
3	1.7	3.0	0±200	300	Red Dot*	SG1027-ND	.56	4.80	44.00	GKG3R024
	2.5	6.0	0±200	500	Blue	SG1028-ND	.56	4.80	44.00	GKG6R024
	3.5	10.0	0±200	500	White	SG1029-ND	.56	4.80	44.00	GKG10024
	5.5	20.0	N900±350	500	Red	SG1030-ND	.56	4.80	44.00	GKG20024
	7.5	30.0	N1100±450	300	Green	SG1031-ND	.56	4.80	44.00	GKG30024
	15.0	50.0	N1700±500	300	Orange	SG1033-ND	.56	4.80	44.00	GKG50024
Bottom Adjust Ceramic Trimmer Capacitors										
4A	1.0	3.0	NPO±250	300	Black	SG3R016-ND	.28	2.45	21.00	GKG3R016
	2.0	5.0	NPO±250	300	Blue	SG5R016-ND	.28	2.45	21.00	GKG5R016
	3.0	10.0	NPO±250	300	White	SG10016-ND	.28	2.45	21.00	GKG10016
	5.0	20.0	N750±250	300	Red	SG20016-ND	.28	2.45	21.00	GKG20016
	6.5	30.0	N1000±500	200	Green	SG30016-ND	.28	2.45	21.00	GKG30016
	7.0	40.0	N2200±800	200	Yellow	SG40016-ND	.28	2.45	21.00	GKG40016
	10.0	50.0	N2200±800	200	Brown	SG50016-ND	.44	3.85	33.00	GKG50016
	12.0	60.0	N2200±800	200	Brown	SG60016-ND	.44	3.85	33.00	GKG60016
	15.0	70.0	N2200±800	200	Brown	SG70016-ND	.44	3.85	33.00	GKG70016
Top Adjust Ceramic Trimmer Capacitors										
4B	1.0	3.0	NPO±250	300	Black	SG3R015-ND	.24	2.10	18.00	GKG3R015
	2.0	5.0	NPO±250	300	Blue	SG5R015-ND	.24	2.10	18.00	GKG5R015
	3.0	10.0	NPO±250	300	White	SG10015-ND	.24	2.10	18.00	GKG10015
	5.0	20.0	N750±250	300	Red	SG20015-ND	.24	2.10	18.00	GKG20015
	6.5	30.0	N1000±500	200	Green	SG30015-ND	.24	2.10	18.00	GKG30015
	7.0	40.0	N2200±800	200	Yellow	SG40015-ND	.24	2.10	18.00	GKG40015
	10.0	50.0	N2200±800	200	Brown	SG50015-ND	.40	3.50	30.00	GKG50015
	12.0	60.0	N2200±800	200	Brown	SG60015-ND	.40	3.50	30.00	GKG60015
	15.0	70.0	N2200±800	200	Brown	SG70015-ND	.40	3.50	30.00	GKG70015

* Marking on bottom of capacitor.

SPECIFICATIONS: • **Operating Temperature Range:** –25°C to +85°C • **Voltage Rating:** 100VDC • **Dielectric Withstanding Voltage:** 220VDC • **Insulation Resistance:** 10^4 Megohms min.

Tuning Tool

SG9007-ND 5mm Type (Fig. 1 & 4) $13.00
SG9005-ND 4 x 4.5mm Type (Fig. 2 & 3) $13.00

Fig. 1

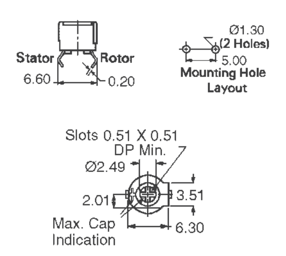


Fig. 2

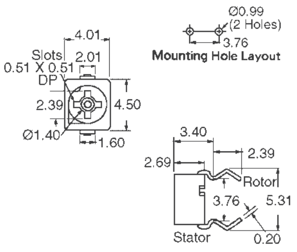


Fig. 3

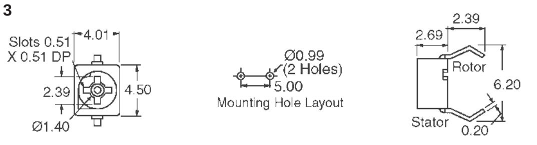


Fig. 4

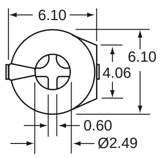


Fig. 4A

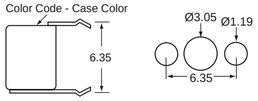
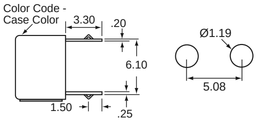


Fig. 4B



SURFTRIM® Surface Mount Variable Capacitors

• Sealed Construction • 4 x 4.5 x 2.7mm

FEATURES:
- Process seal provides protection against contaminants (flux, solvents, etc.) during production.
- Designed for vapor phase reflow soldering.

SPECIFICATIONS:
- **Operating Temperature Range:** –25°C to +85°C
- **Dielectric Withstanding Voltage:** 220 VDC
- **Insulation Resistance:** 10^4 Megohms min.
- **Voltage Rating:** 100VDC
- **Torque:** 15 to 100 g-cm (0.2 to 1.39 in.-oz.)

Fig.	Capacitance (pF) Min.	Capacitance (pF) Max.	TCC (ppm / °C)	Q (min.) 1MHz	Color Code	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape/Reel Pricing 700	Sprague-Goodman Part No.
1	1.4	3.0	0±200	300	Red Dot*	SG2000CT-ND	5.40	23.63	74.25	SG2000TR-ND	313.60	GKG3R066-07
	2.0	6.0	0±200	500	Blue	SG2001CT-ND	5.40	23.63	74.25	SG2001TR-ND	313.60	GKG6R066-07
	3.0	10.0	0±300	500	White	SG2002CT-ND	5.40	23.63	74.25	SG2002TR-ND	313.60	GKG10066-07
	4.5	20.0	N750±300	500	Red	SG2003CT-ND	5.40	23.63	74.25	SG2003TR-ND	313.60	GKG20066-07
	6.5	30.0	N900±450	300	Green	SG2004CT-ND	5.40	23.63	74.25	SG2004TR-ND	313.60	GKG30066-07
2	1.4	3.0	0±200	300	Red Dot*	SG2007CT-ND	6.40	28.00	88.00	SG2007TR-ND	371.70	GKG3R067-07
	2.0	6.0	0±200	500	Blue	SG2008CT-ND	6.40	28.00	88.00	SG2008TR-ND	371.70	GKG6R067-07
	3.0	10.0	0±300	500	White	SG2009CT-ND	6.40	28.00	88.00	SG2009TR-ND	371.70	GKG10067-07
	4.5	20.0	N750±300	500	Red	SG2010CT-ND	6.40	28.00	88.00	SG2010TR-ND	371.70	GKG20067-07
	6.5	30.0	N900±450	300	Green	SG2011CT-ND	6.40	28.00	88.00	SG2011TR-ND	371.70	GKG30067-07

*Marking on bottom of capacitor.

SG9005-ND Tuning Tool $13.00

Fig. 1

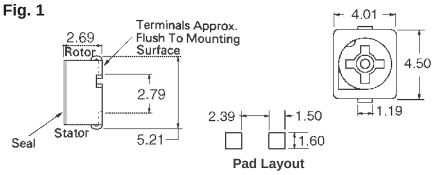
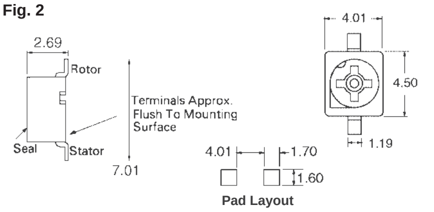


Fig. 2



SPRAGUE
GOODMAN

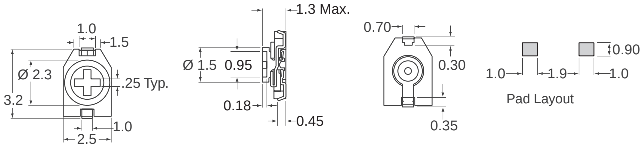
Ceramic Dielectric Trimmer Capacitors

SURFTRIM® Surface Mount GKRP and GKY Series

Tuning Tool

GTT-11-ND	(SG2026 - SG2029)	**$3.75**
GTT-9-ND	(SG2021 - SG2025)	**$2.30**

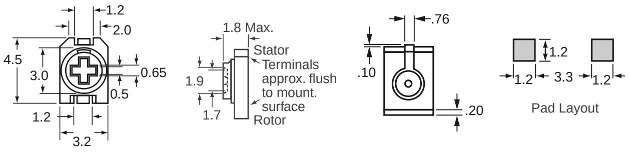
GKRP Series — 3.2mm x 2.5mm x 1.3mm *NEW!*



FEATURES: • Sealed for washability • Low mounting profile • Carrier and reel packaging standard • NPO temperature coefficient (up to 10 pF max.) • Self resonant frequency above 1 GHz

SPECIFICATIONS: • **Operating Temperature Range:** -40°C to +85°C • **Dielectric Withstanding Voltage:** 75VDC • **Insulation Resistance:** 10^4 Megohms min. • **Voltage Rating:** 25VDC • **Torque:** 0.14 to 2.1 oz-in

GKY Series — 3.2mm x 4.5mm x 1.8mm



FEATURES: • Designed for reflow soldering • Carrier and reel packaging standard

SPECIFICATIONS: • **Operating Temperature Range:** -25°C to +85°C • **Dielectric Withstanding Voltage:** 220VDC • **Insulation Resistance:** 10^4 Megohms min. • **Voltage Rating:** 100VDC • **Torque:** 0.14 to 2.08 oz-in

Capacitance (pF) Min.	Capacitance (pF) Max.	TCC (ppm / °C)	Q (min.) (1 MHz)	Color Code	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Sprague-Goodman Part No.
NEW! GKRP Series NEW!												
3.0	5	0 ±500	150	—	SG2026CT-ND	7.20	31.50	99.00	SG2026TR-ND	2,000	540.00/M	GKRP5R066
3.0	10	0 ±500	150	—	SG2027CT-ND	7.20	31.50	99.00	SG2027TR-ND	2,000	540.00/M	GKRP10066
5.0	20	N750 ±500	150	—	SG2028CT-ND	7.20	31.50	99.00	SG2028TR-ND	2,000	540.00/M	GKRP20066
7.0	30	N750 ±500	150	—	SG2029CT-ND	7.20	31.50	99.00	SG2029TR-ND	2,000	540.00/M	GKRP30066
GKY Series												
1.7	3.0	0 ±300	500	Brown	SG2024CT-ND	5.20	22.75	71.50	SG2024TR-ND	1,000	431.60	GKY3R066
2.5	6.0	0 ±300	500	Blue	SG2025CT-ND	5.20	22.75	71.50	SG2025TR-ND	1,000	431.60	GKY6R066
3.0	10.0	N400 ±400	500	White	SG2021CT-ND	5.20	22.75	71.50	SG2021TR-ND	1,000	431.60	GKY10066
5.0	20.0	N900 ±400	300	Red	SG2022CT-ND	5.20	22.75	71.50	SG2022TR-ND	1,000	431.60	GKY20066
6.0	30.0	N1200 ±500	300	Green	SG2023CT-ND	5.20	22.75	71.50	SG2023TR-ND	1,000	431.60	GKY30066

Top and Bottom/Side Adjust FILMTRIM® Plastic Dielectric Capacitors

GYA, GYB Series — 8mm; GYC, GYD, GZC, GZD Series — 10mm

Fig. 1

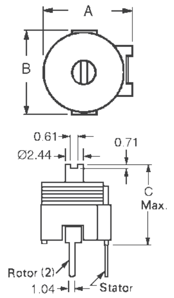


Fig. 1A
8 mm

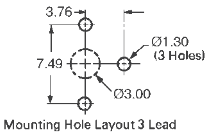


Fig. 1B
10 mm

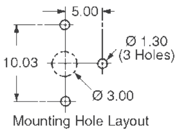
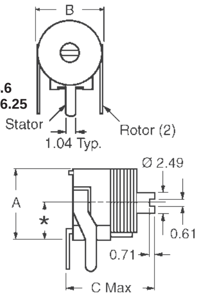


Fig. 2



*** 8mm = 4.6**
10mm = 6.25

Fig. 2A
8 mm

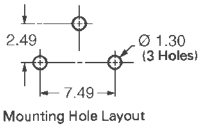
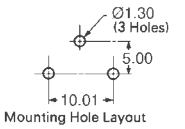


Fig. 2B
10 mm



FEATURES:

- Compact size
- Most stable TCC for single turn trimmers
- Low cost for commercial/industrial applications
- Linear capacitance change vs. rotation
- Typical applications: Mobile radios, transmitters, pagers, electronic games, wireless equipment, CATV

SPECIFICATIONS:

- **Dielectric Construction:** GYA, GYB, GYC, GYD Series: Polypropylene; GZC and GZD Series: Polycarbonate
- **Voltage Rating:** 100WVDC
- **Dielectric Withstanding Voltage:** 200VDC
- **Operating Temperature:** GYA and GYB Series: –40°C to 70°C; GYC, GYD, GZC, GZD Series: –40°C to 85°C
- **Contact Resistance:** <0.010 Ohm
- **Insulation Resistance:** >10,000 M Ohm
- **Torque:** GYA and GYB Series: 0.2-3.0 in.-oz.; GYC, GYD, GZC, GZD Series: 0.2-5.5 in.-oz.
- **Q (min) @ 1 MHz:** GYA, GYB, GYC, GYD Series: 1000; GZC and GZD Series: 200

Tuning Tool

SG9004-ND......................**$15.44**

Fig.	Capacitance (pF) Min.	Capacitance (pF) Max.	TCC (ppm/°C)	Dimensions A	Dimensions B	Dimensions C	Color Code	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sprague-Goodman Part No.
8mm												
1A	1.6	5.0	0±300	8.51	7.87	10.2	Gray	SG3000-ND	1.19	10.20	93.50	GYA5R000
	2.0	10.0	0±300	8.51	7.87	10.2	Yellow	SG3001-ND	1.19	10.20	93.50	GYA10000
	2.0	15.0	0±400	8.51	7.87	10.2	Blue	SG3002-ND	1.30	11.10	101.75	GYA15000
	2.2	22.0	0±400	8.51	7.87	10.2	Green	SG3003-ND	1.30	11.10	101.75	GYA22000
	2.3	27.0	0±350	8.51	7.87	10.2	Red	SG3004-ND	1.37	11.70	107.25	GYA27000
	3.0	36.0	0±300	8.51	7.87	10.2	Violet	SG3005-ND	2.00	17.10	156.75	GYA36000
2A	1.6	5.0	0±300	8.51	7.87	10.2	Gray	SG3020-ND	2.14	18.30	167.75	GYB5R000
	2.0	10.0	0±300	8.51	7.87	10.2	Yellow	SG3021-ND	2.14	18.30	167.75	GYB10000
	2.0	15.0	0±400	8.51	7.87	10.2	Blue	SG3022-ND	2.28	19.50	178.75	GYB15000
	2.2	22.0	0±400	8.51	7.87	10.2	Green	SG3023-ND	2.31	19.80	181.50	GYB22000
	2.3	27.0	0±350	8.51	7.87	10.2	Red	SG3024-ND	2.38	20.40	187.00	GYB27000
10mm												
1B	2.0	15.0	0±400	11	10.16	10.2	Blue	SG3006-ND	1.68	14.40	132.00	GYC15000
	3.0	20.0	0±400	11	10.16	10.2	Green	SG3007-ND	1.68	14.40	132.00	GYC20000
	3.5	40.0	0±350	11	10.16	10.2	Clear	SG3008-ND	1.65	14.10	129.25	GYC40000
	4.5	65.0	0±350	11	10.16	10.2	Yellow	SG3009-ND	1.68	14.40	132.00	GYC65000
2B	2.0	15.0	0±400	11	10.16	10.2	Blue	SG3025-ND	2.28	19.50	178.75	GYD15000
	3.0	20.0	0±400	11	10.16	10.2	Green	SG3026-ND	2.35	20.10	184.25	GYD20000
	3.0	40.0	0±350	11	10.16	10.2	Clear	SG3027-ND	2.52	21.60	198.00	GYD40000
	4.5	65.0	0±350	11	10.16	10.2	Yellow	SG3028-ND	2.77	23.70	217.25	GYD65000
1B	8.0	80.0	0±200	11	10.16	11.4	Red	SG3010-ND	2.28	19.50	178.75	GZC80000
	9.0	100.0	0±400	11	10.16	11.4	Violet	SG3011-ND	3.61	30.90	283.25	GZC10100
	9.0	120.0	0±350	11	10.16	11.4	Orange	SG3012-ND	5.36	45.90	420.75	GZC12100
	10.0	150.0	0±350	11	10.16	12.0	Orange	SG3013-ND	6.23	53.40	489.50	GZC15100
	10.0	180.0	0±350	11	10.16	12.0	Orange	SG3014-ND	7.32	62.70	574.75	GZC18100
2B	8.0	80.0	0±200	11	10.16	11.4	Red	SG3015-ND	3.05	26.10	239.25	GZD80000
	9.0	100.0	0±400	11	10.16	11.4	Violet	SG3016-ND	4.55	39.00	357.50	GZD10100
	9.0	120.0	0±350	11	10.16	11.4	Orange	SG3017-ND	6.16	52.80	484.00	GZD12100
	10.0	150.0	0±350	11	10.16	12.0	Orange	SG3018-ND	6.97	59.70	547.25	GZD15100
	10.0	180.0	0±350	11	10.16	12.0	Orange	SG3019-ND	7.77	66.60	610.50	GZD18100

BC COMPONENTS 10% Metal Glazed Film Resistors — .50 Watt Low Ohm Surge Resistor LSR37

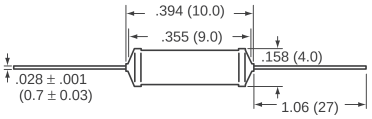
Features:

- High pulse-loading capability (flashes)
- Good replacement for carbon-composite resistors

Applications: • Application for overload and high voltage pulse hazard circuits **Description:** • A metal glazed film is deposited on a high grade ceramic body. After that caps are applied to the rods and electrolytic copper wires are welded to these end caps. The resistors are coated with a light-blue lacquer which provides electrical, mechanical and climatic protection.

CHARACTERISTICS:

- **Dielectric Withstanding Voltage of the Insulation for 1 Minute:** 700V



BC Components Standard Resistor Values

220
270
330
390
470
560
680
820
1.0K
1.5K
1.8K
2.2K
2.7K
3.3K
3.9K
4.7K
5.6K
6.8K
8.2K
10K

Description	Value Range	Digi-Key Part No.	Pricing 5	100	1,000	5,000	10,000	BC Components Part No.
.50 Watt, 10% Metal Glazed Film Reisistor; Tape & Reel (5,000/Reel)	220-10KΩ	BC + Value + “LTR-ND”	—	—	—	100.70/M	91.20/M	2322 245 22xxx
.50 Watt, 10% Metal Glazed Film Resistor; Cut Tape	220-10KΩ	BC + Value + “LCT-ND”	1.60	18.06	124.74	—	—	2322 245 22xxx

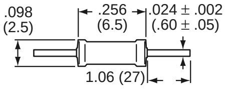
1% Metal Film Fixed Resistors — .40 Watt 5043ED Series

- Solder plated
- Copper leads

The resistors are coated with a light green lacquer which provides electrical, mechanical, and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with MIL-STD-202E, Method 215, and IEC 68-2-45.

CHARACTERISTICS:

- **Resistance Tolerance:** ±1% • **Temp.Coefficient:** ≤ ±100 ppm/°C • **Abs. Maximum Dissipation at TAMB = 70°C:** 0.40W • **Thermal Resistance, RTH:** 200°C/W • **Maximum Continuous Oper. Volt.:** 250 V (DC or RMS) • **Noise R ≤ 1 MΩ:** Maximum 0.1 µV/V • **Operating Temperature Range:** -55°C to +155°C



Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	BC Components Part No.
.40 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 - 2.00M Ω	BC + Value + “YTR-ND”	—	—	—	22.50/M	19.20/M	5043EDxxxxxF12AF5
.40 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 - 2.00M Ω	BC + Value + “YCT-ND”	.95	14.50	37.50	—	—	5043EDxxxxxF12AF5

1% Metal Film Fixed Resistor Kits

Digi-Key® Assortment Kits

5 Each of Values 10.0Ω to 97.6Ω.
BCY1-KIT-ND **$34.95**

5 Each of Values 100Ω to 976Ω.
BCY2-KIT-ND **$34.95**

5 Each of Values 1.00KΩ to 9.76KΩ.
BCY3-KIT-ND **$34.95**

5 Each of Values 10.0KΩ to 97.6KΩ.
BCY4-KIT-ND **$34.95**

5 Each of Values 100KΩ to 2.00MΩ.
BCY5-KIT-ND **$46.95**

BC Components Standard Resistor Values

10.0
10.2
10.5
10.7
11.0
11.3
11.5
11.8
12.0
12.1
12.4
12.7
13.0
13.3
13.7
14.0
14.3
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15.0
15.4
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16.2
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19.6
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20.5
21.0
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26.7
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28.0
28.7
29.4
30.1
30.9
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32.4
33.2
34.0
34.8
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37.4
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42.2
43.2
44.2
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46.4
47.5
48.7
49.9
51.1
52.3
53.6
54.9
56.2
57.6
59.0
60.4
61.9
62.0
63.4
64.9
66.5
68.1
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71.5
73.2
75.0
76.8
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698
715
732
750
768
787
806
825
845
866
887
909
931
953
976
1.00K
1.02K
1.05K
1.07K
1.10K
1.13K
1.15K
1.18K
1.21K
1.24K
1.27K
1.30K
1.33K
1.37K
1.40K
1.43K
1.47K
1.50K
1.54K
1.58K
1.62K
1.65K
1.69K
1.74K
1.78K
1.82K
1.87K
1.91K
1.96K
2.00K
2.05K
2.10K
2.15K
2.21K
2.26K
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2.49K
2.55K
2.61K
2.67K
2.74K
2.80K
2.87K
2.94K
3.01K
3.09K
3.16K
3.24K
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3.40K
3.48K
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32.4K
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35.7K
36.0K
36.5K
37.4K
38.3K
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47.5K
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68.1K
69.8K
71.5K
73.2K
75.0K
76.8K
78.7K
80.6K
82.5K
84.5K
86.6K
88.7K
90.9K
93.1K
95.3K
97.6K
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681K
698K
715K
732K
750K
768K
787K
806K
825K
845K
866K
887K
909K
910K
931K
953K
976K
1.00M
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1.07M
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1.13M
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1.18M
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1.69M
1.74M
1.78M
1.80M
1.82M
1.87M
1.91M
1.96M
2.00M

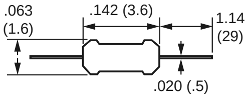
1% Metal Film Fixed Resistors — .40 Watt 5063JD “Spacemiser” Series

- Tin plated
- Copper leads

The resistors are coated with a blue lacquer which provides electrical, mechanical, and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with MIL-STD-202E, Method 215, and IEC 68-2-45.

CHARACTERISTICS:

- **Resistance Tolerance:** ±1% • **Temperature Coefficient:** ≤ ±100 ppm/°C • **Abs. Maximum Dissipation at TAMB = 70°C:** 0.40W • **Thermal Resistance, RTH:** 200°C/W • **Maximum Continuous Operating Voltage:** 200 V (DC or RMS) • **Noise R ≤ 1 MΩ:** Maximum 0.1 µV/V • **Operating Temperature Range:** -55°C to +125°C



Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	BC Components Part No.
.40 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 - 2.00M Ω	BC + Value + “XTR-ND”	—	—	—	61.88/M	52.80/M	5063JDxxxxxF12AF5
.40 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 - 2.00M Ω	BC + Value + “XCT-ND”	1.95	29.73	76.88	—	—	5063JDxxxxxF12AF5

1% Metal Film Fixed Resistor Kits

Digi-Key® Assortment Kits

5 Each of Values 10.0Ω to 97.6Ω.
BCX1-KIT-ND **$69.95**

5 Each of Values 100Ω to 976Ω.
BCX2-KIT-ND **$69.94**

5 Each of Values 1.00KΩ to 9.76KΩ.
BCX3-KIT-ND **$69.94**

5 Each of Values 10.0KΩ to 97.6KΩ.
BCX4-KIT-ND **$69.94**

5 Each of Values 100KΩ to 2.00MΩ.
BCX5-KIT-ND **$94.96**

BC Components Standard Resistor Values

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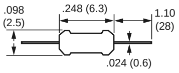
1% Metal Film Fixed Resistors — .60 Watt B0207C-F Series



- Tin plated
- Copper leads

The resistors are coated with a blue lacquer which provides electrical, mechanical, and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with MIL-STD-202E, Method 215, and IEC 68-2-45.

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** ±50 ppm/°C • **Abs. Maximum Dissipation at TAMB = 70°C:** 0.60W • **Thermal Resistance, RTH:** 140°C/W • **Maximum Continuous Operating Voltage:** 300 V (DC or RMS) • **Noise R ≤ 1 MΩ:** Maximum 1.0 µV/V • **Operating Temperature Range:** -55°C to +155°C

1% Metal Film Fixed Resistor Kits
Digi-Key® Assortment Kits

5 Each of Values 10.0Ω to 97.6Ω.
BCZ1-KIT-ND **$57.95**

5 Each of Values 100Ω to 976Ω.
BCZ2-KIT-ND **$57.95**

5 Each of Values 1.00KΩ to 9.76KΩ.
BCZ3-KIT-ND **$57.95**

5 Each of Values 10.0KΩ to 97.6KΩ.
BCZ4-KIT-ND **$57.94**

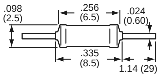
5 Each of Values 100KΩ to 2.20MΩ.
BCZ5-KIT-ND **$59.95**

BC Components Standard Resistor Values

10.0	19.6	38.3	75.0	147	287	562	1.10K	2.15K	4.22K	8.25K	16.2K	31.6K	63.4K	124K	243K	475K	931K
10.2	20.0	39.2	76.8	150	294	576	1.13K	2.21K	4.32K	8.45K	16.5K	32.4K	64.9K	127K	249K	487K	953K
10.5	20.5	40.2	78.7	154	301	590	1.15K	2.26K	4.42K	8.66K	16.9K	33.2K	66.5K	130K	255K	499K	976K
10.7	21.0	41.2	80.6	158	309	604	1.18K	2.32K	4.53K	8.87K	17.4K	34.0K	68.1K	133K	261K	511K	1.10M
11.0	21.5	42.2	82.5	162	316	619	1.21K	2.37K	4.64K	9.09K	17.8K	34.8K	69.8K	137K	267K	523K	1.20M
11.3	22.1	43.2	84.5	165	324	634	1.24K	2.43K	4.75K	9.31K	18.2K	35.7K	71.5K	140K	274K	536K	1.30M
11.5	22.6	44.2	86.6	169	332	649	1.27K	2.49K	4.87K	9.53K	18.7K	36.5K	73.2K	143K	280K	549K	1.50M
11.8	23.2	45.3	88.7	174	340	665	1.30K	2.55K	4.99K	9.76K	19.1K	37.4K	75.0K	147K	287K	562K	1.60M
12.1	23.7	46.4	90.9	178	348	681	1.33K	2.61K	5.11K	10.0K	19.6K	38.3K	76.8K	150K	294K	576K	1.80M
12.4	24.3	47.5	93.1	182	357	698	1.37K	2.67K	5.23K	10.2K	20.0K	39.2K	78.7K	154K	301K	590K	2.00M
12.7	24.9	48.7	95.3	187	365	715	1.40K	2.74K	5.36K	10.5K	20.5K	40.2K	80.6K	158K	309K	604K	2.20M
13.0	25.5	49.9	97.6	191	374	732	1.43K	2.80K	5.49K	10.7K	21.0K	41.2K	82.5K	162K	316K	619K	
13.3	26.1	51.1	100	196	383	750	1.47K	2.87K	5.62K	11.0K	21.5K	43.2K	84.5K	165K	324K	634K	
13.7	26.7	52.3	102	200	392	768	1.50K	2.94K	5.76K	11.3K	22.1K	44.2K	86.6K	169K	332K	649K	
14.0	27.4	53.6	105	205	402	787	1.54K	3.01K	5.90K	11.5K	22.6K	45.3K	88.7K	174K	340K	665K	
14.3	28.0	54.9	107	210	412	806	1.58K	3.09K	6.04K	11.8K	23.2K	46.4K	90.9K	178K	348K	681K	
14.7	28.7	56.2	110	215	422	825	1.62K	3.16K	6.19K	12.1K	23.7K	47.5K	93.1K	182K	357K	698K	
15.0	29.4	57.6	113	221	432	845	1.65K	3.24K	6.34K	12.4K	24.3K	48.7K	95.3K	187K	365K	715K	
15.4	30.1	59.0	115	226	442	866	1.69K	3.32K	6.49K	12.7K	24.9K	49.9K	97.6K	191K	374K	732K	
15.8	30.9	60.4	118	232	453	887	1.74K	3.40K	6.65K	13.0K	25.5K	51.1K	100K	196K	383K	750K	
16.2	31.6	61.9	121	237	464	909	1.78K	3.48K	6.81K	13.3K	26.1K	52.3K	102K	200K	392K	768K	
16.5	32.4	63.4	124	243	475	931	1.82K	3.57K	6.98K	13.7K	26.7K	53.6K	105K	205K	402K	787K	
16.9	33.2	64.9	127	249	487	953	1.87K	3.65K	7.15K	14.0K	27.4K	54.9K	107K	210K	412K	806K	
17.4	34.0	66.5	130	255	499	976	1.91K	3.74K	7.32K	14.3K	28.0K	56.2K	110K	215K	422K	825K	
17.8	34.8	68.1	133	261	511	1.00K	1.96K	3.83K	7.50K	14.7K	28.7K	57.6K	113K	221K	432K	845K	
18.2	35.7	69.8	137	267	523	1.02K	2.00K	3.92K	7.68K	15.0K	29.4K	59.0K	115K	226K	442K	866K	
18.7	36.5	71.5	140	274	536	1.05K	2.05K	4.02K	7.87K	15.4K	30.1K	60.4K	118K	232K	453K	887K	
19.1	37.4	73.2	143	280	549	1.07K	2.10K	4.12K	8.06K	15.8K	30.9K	61.9K	121K	237K	464K	909K	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	BC Components Part No.
.60 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 - 2.20M Ω	BC + Value + “ZTR-ND”	—	—	—	50.63/M	43.20/M	B0207CxxxxxF5T
.60 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 - 2.20M Ω	BC + Value + “ZCT-ND”	1.66	25.38	65.63	—	—	B0207CxxxxxF5T

5% Power Metal Film Resistors — 1 Watt 5073NW Series



- Solder plated
- Copper leads

The resistors are coated with a red, nonflammable lacquer which provides electrical, mechanical, and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with MIL-STD-202E, Method 215, and IEC 68-2-45.

CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C • **Abs. Maximum Dissipation at TAMB = 70°C:** 1.00W
• **Maximum Continuous Operating Voltage:** 350 V (DC or RMS)
• **Operating Temperature Range:** -55°C to +155°C

5% Power Metal Film Resistor Kits
Digi-Key® Assortment Kits

5 Each of Values 1.0Ω to 91Ω.
BCAW1-KIT-ND **$29.95**

5 Each of Values 100Ω to 9.1KΩ.
BCBW1-KIT-ND **$29.95**

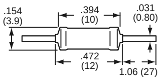
5 Each of Values 10KΩ to 1.0MΩ.
BCCW1-KIT-ND **$29.96**

BC Components Standard Resistor Values

1.0	3.6	12	43	150	510	1.8K	6.2K	22K	75K	270K	910K
1.1	3.9	13	47	160	560	2.0K	6.8K	24K	82K	300K	1.0M
1.2	4.3	15	51	180	620	2.2K	7.5K	27K	91K	330K	
1.3	4.7	16	56	200	680	2.4K	8.2K	30K	100K	360K	
1.5	5.1	18	62	220	750	2.7K	9.1K	33K	110K	390K	
1.6	5.6	20	68	240	820	3.0K	10K	36K	120K	430K	
1.8	6.2	22	75	270	910	3.3K	11K	39K	130K	470K	
2.0	6.8	24	82	300	1.0K	3.6K	12K	43K	150K	510K	
2.2	7.5	27	91	330	1.1K	3.9K	13K	47K	160K	560K	
2.4	8.2	30	100	360	1.2K	4.3K	15K	51K	180K	620K	
2.7	9.1	33	110	390	1.3K	4.7K	16K	56K	200K	680K	
3.0	10	36	120	430	1.5K	5.1K	18K	62K	220K	750K	
3.3	11	39	130	470	1.6K	5.6K	20K	68K	240K	820K	

Description	Value Range	Digi-Key Part No.	Pricing 5	100	1,000	5,000	10,000	BC Components Part No.
1 Watt, 5% Power Metal Film Resistor; Tape & Reel (5,000/Reel)	1.0 - 1.0M Ω	BC + Value + “W-1TR-ND”	—	—	—	50.62/M	45.84/M	5073NWxxxxxJ12AFX
1 Watt, 5% Power Metal Film Resistor; Cut Tape	1.0 - 1.0M Ω	BC + Value + “W-1CT-ND”	.80	8.40	62.37	—	—	5073NWxxxxxJ12AFX

5% Power Metal Film Resistors — 2 Watt 5083NW Series



- Solder plated
- Copper leads

The resistors are coated with a red, nonflammable lacquer which provides electrical, mechanical, and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with MIL-STD-202E, Method 215, and IEC 68-2-45.

CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C • **Abs. Maximum Dissipation at TAMB = 70°C:** 2.00W • **Maximum Continuous Operating Voltage:** 500 V (DC or RMS) • **Operating Temperature Range:** -55°C to +155°C

5% Power Metal Film Resistor Kits
Digi-Key® Assortment Kits

5 Each of Values 1.0Ω to 91Ω.
BCAW2-KIT-ND....................................**$39.95**

5 Each of Values 100Ω to 9.1KΩ.
BCBW2-KIT-ND....................................**$39.95**

5 Each of Values 10KΩ to 1.0MΩ.
BCCW2-KIT-ND....................................**$39.95**

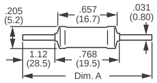
BC Components Standard Resistor Values

1.0	3.6	12	43	150	510	1.8K	6.2K	22K	75K	270K	910K
1.1	3.9	13	47	160	560	2.0K	6.8K	24K	82K	300K	1.0M
1.2	4.3	15	51	180	620	2.2K	7.5K	27K	91K	330K	
1.3	4.7	16	56	200	680	2.4K	8.2K	30K	100K	360K	
1.5	5.1	18	62	220	750	2.7K	9.1K	33K	110K	390K	
1.6	5.6	20	68	240	820	3.0K	10K	36K	120K	430K	
1.8	6.2	22	75	270	910	3.3K	11K	39K	130K	470K	
2.0	6.8	24	82	300	1.0K	3.6K	12K	43K	150K	510K	
2.2	7.5	27	91	330	1.1K	3.9K	13K	47K	160K	560K	
2.4	8.2	30	100	360	1.2K	4.3K	15K	51K	180K	620K	
2.7	9.1	33	110	390	1.3K	4.7K	16K	56K	200K	680K	
3.0	10	36	120	430	1.5K	5.1K	18K	62K	220K	750K	
3.3	11	39	130	470	1.6K	5.6K	20K	68K	240K	820K	

Description	Value Range	Digi-Key Part No.	Pricing 5	100	1,000	5,000	10,000	BC Components Part No.
2 Watt, 5% Power Metal Film Resistor; Tape & Reel (5,000/Reel)	1.0 - 1.0M Ω	BC + Value + “W-2TR-ND”	—	—	—	100.70/M	91.20/M	5083NWxxxxxJ12AFX
2 Watt, 5% Power Metal Film Resistor; Cut Tape	1.0 - 1.0M Ω	BC + Value + “W-2CT-ND”	1.60	18.06	124.74	—	—	5083NWxxxxxJ12AFX

5% Power Metal Film Resistors — 3 Watt 5093NW Series

- Solder plated • Copper leads



The resistors are coated with a red, nonflammable lacquer which provides electrical, mechanical, and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with MIL-STD-202E, Method 215, and IEC 68-2-45.

CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C
• **Abs. Maximum Dissipation at TAMB = 70°C:** 3.00W • **Maximum Continuous Operating Voltage:** 750 V (DC or RMS) • **Operating Temperature Range:** -55°C to +155°C

5 % Power Metal Film Resistor Kits
Digi-Key® Assortment Kits

5 Each of Values 10Ω to 430Ω
BCAW3J-KIT-ND **$59.95**

5 Each of Values 470Ω to 20KΩ
BCBW3J-KIT-ND...**$59.95**

5 Each of Values 22KΩ to 1.0MΩ
BCCW3J-KIT-ND...**$59.95**

BC Components Standard Resistor Values

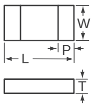
10	30	82	240	680	2.0K	5.6K	16K	47K	130K	390K
11	33	91	270	750	2.2K	6.2K	18K	51K	150K	430K
12	36	100	300	820	2.4K	6.8K	20K	56K	160K	470K
13	39	110	330	910	2.7K	7.5K	22K	62K	180K	510K
15	43	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K
16	47	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K
18	51	150	430	1.2K	3.6K	10K	30K	82K	240K	680K
20	56	160	470	1.3K	3.9K	11K	33K	91K	270K	750K
22	62	180	510	1.5K	4.3K	12K	36K	100K	300K	820K
24	68	200	560	1.6K	4.7K	13K	39K	110K	330K	910K
27	75	220	620	1.8K	5.1K	15K	43K	120K	360K	1.0M

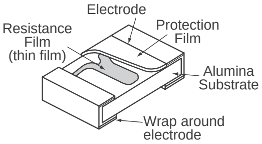
Description	Value Range	Digi-Key Part No.	Pricing 5	100	500	1,000	5,000	BC Components Part No.
3 Watt, 5% Power Metal Film Resistors; Tape & Box (500/AMMO Pack), Dim. A = 3.15” (80mm)	10 - 1.0M Ω	BC + Value + “W-3TB-ND”	—	—	107.52	199.58	178.08/M	5093NWxxxxxJ08AFX
3 Watt, 5% Power Metal Film Resistors; Cut Tape, Dim. A = 3.15” (80mm)	10 - 1.0M Ω	BC + Value + “W-3CT-ND”	2.71	30.62	—	—	—	5093NWxxxxxJ08AFX
3 Watt, 5% Power Metal Film Resistors; Tape & Box (500/AMMO Pack), Dim. A = 2.48” (63mm)	10 - 1.0M Ω	BC + Value + “W-3JTB-ND”	—	—	107.52	199.58	178.08/M	5093NWxxxxxJ
3 Watt, 5% Power Metal Film Resistors; Cut Tape, Dim. A = 2.48” (63mm)	10 - 1.0M Ω	BC + Value + “W-3JCT-ND”	2.71	30.62	—	—	—	5093NWxxxxxJ

THIN FILM TECHNOLOGY
SSM SUSUMU CO., LTD

SMT Thin Film Chip Resistors – High Precision RR Series

Excellent in resistance tolerance, thermal coefficient of resistance, high-frequency characteristics, current-noise-free characteristics, and minimized third harmonic distortion.





Dimension (mm)	RR0306 (0201)	RR0510 (0402)	RR0816 (0603)	RR1220 (0805)
L	0.60 ±0.05	1.00 ±0.05	1.60 ±0.20	2.00 ±0.20
W	0.30 ±0.05	0.50 ±0.05	0.80 ±0.20	1.25 ±0.20
P	0.12 ±0.05	0.20 ±0.10	0.30 ±0.20	0.40 ±0.20
T	0.23 ±0.03	0.35 ±0.05	0.40 ±0.10	0.40 ±0.10

Types – RR0816, RR1220

Type	RR0816	RR1220
Package Size	**(0603)**	**(0805)**
Power	1/16W	1/10W
Resistance Tolerance	±0.1% (B)	±0.1% (B)
TCR ppm/°C	±25	±25
Resistance Values	E-24/E-96	E-24/E-96
Max. Operating Voltage	75V	100V

.1%, 1/16 Watt – 0603 Series

Resistor Values

100	1.0K	10.0K	15.0K	22.0K	33.0K	130K
330	2.4K	11.0K	18.0K	24.0K	51.0K	200K
560	5.6K	13.0K	20.0K	27.0K	100K	220K

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	5,000	10,000	
Tape & Reel (5,000 Per Reel)							
100 - 220KΩ	RR08P + Value + BTR-ND	—	—	—	71.40/M	67.20/M	RR0816P-xxx-B
Cut Tape							
100 - 220KΩ	RR08P + Value + BCT-ND	6.33	17.02	39.10	—	—	RR0816P-xxx-B

.1%, 1/10 Watt – 0805 Series

Resistor Values

100	1.2K	2.2K	10.0K	24.0K	51.0K	120K
750	1.3K	3.0K	11.0K	27.0K	62.0K	1.0M
820	1.5K	4.7K	15.0K	33.0K	100K	
1.0K	2.0K	7.5K	20.0K	39.0K	110K	

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	5,000	10,000	
Tape & Reel (5,000 Per Reel)							
100 - 1.0MΩ	RR12P + Value + BTR-ND	—	—	—	71.40/M	67.20/M	RR1220P-xxx-B
Cut Tape							
100 - 1.0MΩ	RR12P + Value + BCT-ND	6.33	17.02	39.10	—	—	RR1220P-xxx-B

Types – RR0306, RR0510, RR0816, RR1220

Type	RR0306	RR0510	RR0816	RR1220
Package Size	**(0201)**	**(0402)**	**(0603)**	**(0805)**
Power	1/20W	1/16W	1/16W	1/10W
Res. Tolerance	±0.5%(D)	±0.5%(D)	±0.5%(D)	±0.5%(D)
TCR ppm/°C	±25(P)	±100(R) ±25 (P)	±50(Q) ±25(P)	±25(P) ±50(Q)
Resistance Values	E-24	E-24/E-96	E-24/E-96	E-24/E-96
Max. Operating Voltage	15V	25V	75V	100V

.5%, 1/20 Watt – 0201 Series

Resistor Values

82	100	120	130	560	3.3K	3.9K	5.6K	6.8K	8.2K

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	5,000	10,000	
Tape & Reel (5,000 Per Reel)							
82 - 8.2KΩ	RR03P + Value + DTR-ND	—	—	—	30.60/M	28.80/M	RR0306P-xxx-D
Cut Tape							
82 - 8.2KΩ	RR03P + Value + DCT-ND	3.03	8.14	18.70	—	—	RR0306P-xxx-D

.5%, 1/16 Watt – 0402 Series

Resistor Values

10	56	160	360	750	1.8K	3.9K	8.2K	20.0K	43.0K	100K
15	68	180	390	820	2.0K	4.3K	9.1K	22.0K	47.0K	
24	75	200	430	910	2.2K	4.7K	10.0K	24.0K	51.0K	
27	82	220	470	1.0K	2.4K	5.1K	12.0K	27.0K	56.0K	
30	100	240	510	1.2K	2.7K	5.6K	13.0K	30.0K	62.0K	
33	110	270	560	1.3K	3.0K	6.2K	15.0K	33.0K	68.0K	
39	130	300	620	1.5K	3.3K	6.8K	16.0K	36.0K	75.0K	
51	150	330	680	1.6K	3.6K	7.5K	18.0K	39.0K	82.0K	

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	10,000	30,000	
Tape & Reel (10,000 / Reel)							
10 - 82Ω	RR05R + Value + DTR-ND	—	—	—	8.46/M	7.99/M	RR0510R-xxx-D
Cut Tape							
10 - 82Ω	RR05R + Value + DCT-ND	1.20	3.22	7.40	—	—	RR0510R-xxx-D
Tape & Reel (10,000 Per Reel)							
100 - 100KΩ	RR05P + Value + DTR-ND	—	—	—	8.46/M	7.99/M	RR0510P-xxx-D
Cut Tape							
100 - 100KΩ	RR05P + Value + DCT-ND	1.20	3.22	7.40	—	—	RR0510P-xxx-D

.5%, 1/16 Watt – 0603 Series

Resistor Values

10	56	270	680	2.4K	7.5K	20.5K	47.5K	180K
12	62	300	750	2.7K	8.2K	22.0K	49.9K	200K
15	68	301	820	3.0K	8.25K	22.1K	51.0K	220K
18	68.1	330	825	3.01K	9.1K	22.6K	56.0K	221K
20	75	332	910	3.3K	10.0K	23.2K	56.2K	240K
22	82	348	1.0K	3.32K	10.5K	24.0K	62.0K	249K
22.1	91	360	1.02K	3.6K	11.0K	27.0K	68.0K	270K
24	100	390	1.1K	3.9K	12.0K	28.0K	68.1K	284K
27	110	392	1.2K	4.22K	12.4K	30.0K	75.0K	300K
33	120	422	1.3K	4.3K	13.0K	30.1K	82.0K	301K
33.2	130	430	1.47K	4.7K	13.3K	33.0K	90.9K	309K
36	150	470	1.5K	4.75K	15.0K	34.0K	91.0K	330K
39	160	475	1.6K	4.99K	16.0K	36.0K	100K	332K
39.2	180	499	1.69K	5.1K	16.5K	39.0K	110K	357K
43	200	510	1.8K	5.11K	17.8K	40.2K	120K	360K
47	220	560	2.0K	5.6K	18.0K	43.0K	130K	
47.5	221	562	2.2K	6.2K	18.2K	44.2K	150K	
51	240	620	2.21K	6.8K	20.0K	47.0K	160K	

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	5,000	10,000	
Tape & Reel (5,000 Per Reel)							
10 - 91Ω	RR08Q + Value + DTR-ND	—	—	—	11.70/M	11.05/M	RR0816Q-xxx-D
Cut Tape							
10 - 91Ω	RR08Q + Value + DCT-ND	1.44	3.89	8.93	—	—	RR0816Q-xxx-D
Tape & Reel (5,000 Per Reel)							
100 - 360KΩ	RR08P + Value + DTR-ND	—	—	—	11.70/M	11.05/M	RR0816P-xxx-D
Cut Tape							
100 - 360KΩ	RR08P + Value + DCT-ND	1.44	3.89	8.93	—	—	RR0816P-xxx-D

.5%, 1/10 Watt – 0805 Series

Resistor Values

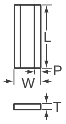
10	75	390	1.6K	4.7K	9.53K	22.1K	56.2K	220K
12	82	430	1.8K	4.75K	10.0K	24.0K	59.0K	240K
15	91	470	2.0K	4.87K	10.2K	24.9K	62.0K	249K
16	100	499	2.05K	4.99K	10.5K	25.5K	64.9K	270K
18	110	510	2.15K	5.1K	11.0K	27.0K	68.0K	300K
20	120	560	2.2K	5.11K	12.0K	30.0K	71.5K	330K
22	130	620	2.4K	5.6K	12.4K	30.1K	75.0K	360K
24	150	680	2.43K	5.62K	12.7K	33.0K	82.0K	390K
27	160	681	2.7K	6.04K	13.0K	33.2K	84.5K	430K
30	180	750	2.94K	6.2K	13.3K	36.0K	91.0K	470K
33	200	820	3.0K	6.65K	14.0K	39.0K	100K	510K
39	215	910	3.01K	6.8K	15.0K	43.0K	110K	560K
47	220	1.0K	3.24K	6.81K	16.0K	44.2K	120K	680K
49.9	240	1.1K	3.3K	7.15K	18.0K	45.3K	130K	750K
51	270	1.2K	3.32K	7.5K	18.7K	47.0K	150K	820K
56	300	1.3K	3.6K	8.06K	19.1K	49.9K	160K	910K
62	330	1.5K	3.9K	8.2K	20.0K	51.0K	180K	1.0M
68	360	1.58K	4.3K	9.1K	22.0K	56.0K	200K	

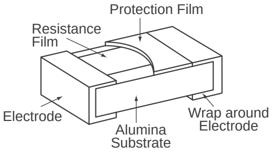
Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	5,000	10,000	
Tape & Reel (5,000 Per Reel)							
10 - 91Ω	RR12Q + Value + DTR-ND	—	—	—	11.70/M	11.05/M	RR1220Q-xxx-D
Cut Tape							
10 - 91Ω	RR12Q + Value + DCT-ND	1.44	3.89	8.93	—	—	RR1220Q-xxx-D
Tape & Reel (5,000 Per Reel)							
100 - 1.0MΩ	RR12P + Value + DTR-ND	—	—	—	11.70/M	11.05/M	RR1220P-xxx-D
Cut Tape							
100 - 1.0MΩ	RR12P + Value + DCT-ND	1.44	3.89	8.93	—	—	RR1220P-xxx-D

THIN FILM TECHNOLOGY
SSM SUSUMU CO., LTD

SMT Thin Film Chip Resistors – Low Resistance RL Series

A specially designed construction assures small dimensions and repressed surface temperature increase due to heat radiation and thermal conduction. This construction also minimizes the thermal effects on peripheral areas. Patent 2963671.





Dimension (mm)	RL3720 (0815)	RL3720W (0815)	RL7520W (0830)
L	3.75 ±0.30	3.75 ±0.30	7.50 ±0.30
W	2.00 ±0.20	2.00 ±0.20	2.00 ±0.20
P	0.40 ±0.20	0.40 ±0.20	0.40 ±0.20
T	0.40 ±0.10	0.40, +0.15/-0.10	0.40, +0.15/-0.10

Types – RL3720, RL3720W, RL7520W

Type	RL3720	RL3720W	RL7520W
Package Size	**(0815)**	**(0815)**	**(0830)**
Power	1/2W	1W	2W
Res. Tolerance	±1% (F) ±2% (G)	±1% (F) ±2 %(G)	±1% (F) ±2% (G)
TCR ppm/°C	0~+350 (T) 0~+200 (S)	0~+350 (T)	0~+350 (T)
Resistance Values	E-6	E-6	E-6

1%, 1/2 Watt – 0815 Series

Resistor Values .018 .022 .047 .10

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	4,000	12,000	
Tape & Reel (4,000 Per Reel)							
.018 - .047Ω	RL37T + Value + FTR-ND	—	—	—	151.20/M	141.75/M	RL3720T-xxx-F
Cut Tape							
.018 - .047Ω	RL37T + Value + FCT-ND	13.54	36.45	83.73	—	—	RL3720T-xxx-F
Tape & Reel (4,000 Per Reel)							
.10Ω	RL37S + Value + FTR-ND	—	—	—	151.20/M	141.75/M	RL3720S-xxx-F
Cut Tape							
.10Ω	RL37S + Value + FCT-ND	13.54	36.45	83.73	—	—	RL3720S-xxx-F

1%, 1 Watt – 0815 Series

Value	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	4,000	12,000	
Tape & Reel (4,000 Per Reel)							
.01Ω	RL37WT.01FTR-ND	—	—	—	201.60/M	189.00/M	RL3720WT-R010-F
Cut Tape							
.01Ω	RL37WT .01FCT-ND	17.88	48.10	110.50	—	—	RL3720WT-R010-F

1%, 2 Watt – 0830 Series

Resistor Values .01 .02

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	4,000	12,000	
Tape & Reel (4,000 Per Reel)							
.01 - .02Ω	RL75WT + Value + FTR-ND	—	—	—	218.40/M	204.75/M	RL7520WT-xxx-F
Cut Tape							
.01 - .02Ω	RL75WT + Value + FCT-ND	19.32	51.99	119.43	—	—	RL7520WT-xxx-F

2%, 1/2 Watt – 0815 Series

Resistor Values .018 .022 .047 .10

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	4,000	12,000	
Tape & Reel (4,000 Per Reel)							
.018 - .047Ω	RL37T + Value +GTR-ND	—	—	—	137.60/M	129.00/M	RL3720T-xxx-G
Cut Tape							
.018 - .047Ω	RL37T + Value + GCT-ND	12.38	33.30	76.50	—	—	RL3720T-xxx-G
Tape & Reel (4,000 Per Reel)							
.10Ω	RL37S + Value + GTR-ND	—	—	—	137.60/M	129.00/M	RL3720S-xxx-G
Cut Tape							
.10Ω	RL37S + Value + GCT-ND	12.38	33.30	76.50	—	—	RL3720S-xxx-G

2%, 1 Watt – 0815 Series

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	4,000	12,000	
Tape & Reel (4,000 Per Reel)							
.01Ω	RL37WT.01GTR-ND	—	—	—	185.60/M	174.00/M	RL3720WT-R010-G
(Cut Tape)							
.01Ω	RL37WT.01GCT-ND	16.50	44.40	102.00	—	—	RL3720WT-xxx-G

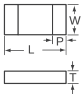
2%, 2 Watt – 0830 Series

Resistor Values .01 .02

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	4,000	12,000	
Tape & Reel (4,000 Per Reel)							
.01 - .02Ω	RL75WT + Value + GTR-ND	—	—	—	209.60/M	196.50/M	RL7520WT-xxx-G
Cut Tape							
.01 - .02Ω	RL75WT + Value + GCT-ND	18.56	49.95	114.75	—	—	RL7520WT-xxx-G

Types – RL0510, RL1220

Dimension (mm)	RL0510 (0402)	RL1220 (0805)
L	1.00 ±0.10	2.00 ±0.20
W	0.50 ±0.10	1.25 ±0.20
P	0.20 ±0.10	0.40 ±0.20
T	0.35 ±0.10	0.40 ±0.20



Type	**RL0510**	**RL1220**		
Package Size	**(0402)**	**(0805)**		
Power	1/8W	1/4W		
Res. Tolerance	±1%(F) ±2%(G)	±1%(F)	±2%(G)	±5%(J)
TCR ppm/°C	0 ~ +200 (S)	0 ~ +200 (S)		0 ~ +350 (T)
Resistance Values	E-6	E-12		

1%, 1/4 Watt – 0805 Series

Resistor Values

.10	.15	.20	.24	.33	.47	.82	1.30	1.80	2.70	4.70
.12	.18	.22	.30	.36	.68	1.00	1.50	2.20	3.30	10.0

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	5,000	10,000	
Tape & Reel (5,000 Per Reel)							
.10 - 10.0Ω	RL12S + Value + FTR-ND	—	—	—	35.70/M	33.60/M	RL1220S-xxx-F
Cut Tape							
.10 - 10.0Ω	RL12S + Value + FCT-ND	3.44	9.25	21.25	—	—	RL1220S-xxx-F

1%, 1/8 Watt – 0402 Series

Resistor Values .15 .22 1.0 2.2 3.3

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	10,000	30,000	
Tape & Reel (10,000 Per Reel)							
.15 - 3.3Ω	RL05S + Value + FTR-ND	—	—	—	62.40/M	58.50/M	RL0510S-xxx-F
Cut Tape							
.15 - 3.3Ω	RL05S + Value + FCT-ND	5.91	15.91	36.55	—	—	RL0510S-xxx-F

2%, 1/8 Watt – 0402 Series

Resistor Values .15 .22 1.0 2.2

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	10,000	30,000	
Tape & Reel (10,000 Per Reel)							
.15 - 2.2Ω	RL05S + Value + GTR-ND	—	—	—	59.20/M	55.50/M	RL0510S-xxx-G
Cut Tape							
.15 - 2.2Ω	RL05S + Value + GCT-ND	5.64	15.17	34.85	—	—	RL0510S-xxx-G

2%, 1/4 Watt – 0805 Series

Resistor Values

.022	.056	.082	.15	.22	.33	.68	1.30	2.20	4.70
.033	.068	.10	.18	.24	.36	.82	1.50	2.70	10.0
.047	.075	.12	.20	.30	.47	1.00	1.80	3.30	

Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	5,000	10,000	
Tape & Reel (5,000 Per Reel)							
.022 - .082Ω	RL12T + Value +GTR-ND	—	—	—	59.50/M	56.00/M	RL1220T-xxx-G
Cut Tape							
.022 - .082Ω	RL12T + Value + GCT-ND	5.36	14.43	33.15	—	—	RL1220T-xxx-G
Tape & Reel (5,000 Per Reel)							
.10 - 10.0Ω	RL12S + Value + GTR-ND	—	—	—	35.70/M	33.60/M	RL1220S-xxx-G
Cut Tape							
.10 - 10.0Ω	RL12S + Value + GCT-ND	3.44	9.25	21.25	—	—	RL1220S-xxx-G

5%, 1/4 Watt – 0805 Series

Resistor Values

.022	.033	.047	.056	.068	.075	.082

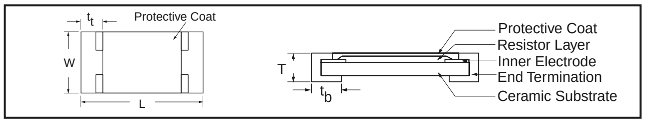
Value Range	Digi-Key Part No.	Pricing					Susumu Part No.
		10	50	200	5,000	10,000	
Tape & Reel (5,000 Per Reel)							
.022 - .082Ω	RL12T + Value + JTR-ND	—	—	—	44.20/M	41.60/M	RL1220T-xxx-J
Cut Tape							
.022 - .082Ω	RL12T + Value + JCT-ND	4.13	11.10	25.50	—	—	RL1220T-xxx-J

YAGEO AMERICA Surface Mount 1% & 5% Thick Film Chip Resistors

DESCRIPTION: The resistors are constructed on a high grade ceramic body (aluminum oxide). Internal metal electrodes are added at each end and connected by a resistive paste which is applied to the top surface of the substrate. The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance, by laser cutting of the resistive layer. The resistive layer is covered with a protective coat. Finally, the two external end terminations are added. For ease of soldering the outerlayer of these end terminations is a lead/tin alloy.

Size Code	**0402**		**0603**	
	1%	**5%**	**1%**	**5%**
Temperature Coefficient **1Ω ≤ R ≤ 10Ω** **10Ω ≤ R ≤ 10MΩ**	≤250±250 ≤±200	≤250±250x10^{-6}/K ≤±200x10^{-6}/K	≤250±250 ≤±100	≤250±250x10^{-6}/K ≤±200x10^{-6}/K
Maximum dissipation at T_{amb} = 70°C	0.063W		0.063W/0.1W	
Maximum permissible voltage	50V (DC or RMS)		50V (DC or RMS)	

Size Code	**0805**		**1206**	
	1%	**5%**	**1%**	**5%**
Temperature Coefficient **1Ω ≤ R ≤ 10Ω** **10Ω ≤ R ≤ 10MΩ**	≤250±250 ≤±100	≤250±250x10^{-6}/K ≤±200x10^{-6}/K	≤250±250 ≤±100	≤250±250x10^{-6}/K ≤±200x10^{-6}/K
Maximum dissipation at T_{amb} = 70°C	0.125W		0.25W	
Maximum permissible voltage	150V (DC or RMS)		200V (DC or RMS)	



Type	**Dimension (mm)**				
	L	**W**	**T**	**t_t**	**t_b**
0402	1.00	0.50	0.35	0.20	0.25
0603	1.60	0.80	0.45	0.30	0.30
0805	2.00	1.25	0.55	0.40	0.40
1206	3.20	1.60	0.55	0.45	0.50

1%, 1/16 Watt — 0603 Series

Resistor Values

1.00	14.7	33.0	69.8	165	365	787	1.82K	4.02K	8.87K	21.0K	44.2K	100K	232K	475K	1.21M
2.00	15.0	33.2	71.5	169	374	806	1.87K	4.12K	9.09K	21.5K	45.3K	102K	234K	487K	1.50M
2.10	15.4	34.0	73.2	174	383	820	1.91K	4.22K	9.10K	22.0K	46.4K	105K	237K	499K	2.00M
2.15	15.8	34.8	75.0	178	390	825	1.96K	4.30K	9.31K	22.1K	47.0K	107K	240K	500K	2.21M
2.21	16.0	35.7	76.8	180	392	845	2.00K	4.32K	9.53K	22.6K	47.5K	110K	243K	510K	2.49M
2.43	16.2	36.0	78.7	182	402	866	2.05K	4.42K	9.76K	23.2K	48.7K	113K	249K	511K	2.94M
2.47	16.5	36.5	80.6	187	412	887	2.10K	4.53K	10.0K	23.7K	49.9K	115K	255K	523K	3.01M
2.49	16.9	37.4	82.0	191	422	909	2.15K	4.64K	10.2K	24.0K	51.0K	118K	261K	536K	4.70M
2.74	17.4	38.3	82.5	196	430	910	2.20K	4.70K	10.5K	24.3K	51.1K	120K	267K	549K	4.75M
3.01	17.8	39.0	84.5	200	432	931	2.21K	4.75K	10.7K	24.9K	52.3K	121K	270K	560K	10.0M
3.32	18.0	39.2	86.6	205	442	953	2.26K	4.87K	11.0K	25.5K	53.6K	124K	274K	562K	
3.92	18.2	40.2	88.7	210	453	976	2.32K	4.99K	11.3K	26.1K	54.9K	127K	280K	576K	
4.02	18.7	41.2	90.9	215	464	1.00K	2.37K	5.10K	11.5K	26.7K	56.2K	130K	287K	590K	
4.42	19.1	42.2	91.0	220	470	1.02K	2.40K	5.11K	11.8K	27.0K	57.6K	133K	294K	604K	
4.75	19.6	43.0	93.1	221	475	1.05K	2.43K	5.23K	12.0K	27.4K	59.0K	137K	300K	619K	
4.99	20.0	43.2	95.3	226	487	1.07K	2.49K	5.36K	12.1K	28.0K	60.4K	140K	301K	620K	
5.11	20.5	44.2	97.6	232	499	1.10K	2.55K	5.49K	12.4K	28.7K	61.9K	143K	309K	634K	
5.23	21.0	45.3	100	237	510	1.13K	2.61K	5.60K	12.7K	29.4K	62.0K	147K	316K	649K	
5.62	21.5	46.4	102	240	511	1.15K	2.67K	5.62K	13.0K	30.0K	63.4K	150K	324K	665K	
5.76	22.0	47.0	105	243	523	1.18K	2.70K	5.76K	13.3K	30.1K	64.9K	154K	330K	680K	
6.04	22.1	47.5	107	249	536	1.20K	2.74K	5.90K	13.7K	30.9K	66.5K	158K	332K	681K	
6.81	22.6	48.7	110	255	549	1.21K	2.80K	6.04K	14.0K	31.6K	68.0K	160K	340K	698K	
7.50	23.2	49.9	113	261	560	1.24K	2.87K	6.19K	14.3K	32.4K	68.1K	162K	348K	715K	
10.0	23.7	51.0	115	267	562	1.27K	2.94K	6.20K	14.7K	33.0K	69.8K	165K	357K	732K	
10.2	24.0	51.1	118	270	576	1.30K	3.00K	6.34K	15.0K	33.2K	71.5K	169K	360K	750K	
10.5	24.3	52.3	120	274	590	1.33K	3.01K	6.49K	15.4K	34.0K	73.2K	174K	365K	768K	
10.7	24.9	53.6	121	280	600	1.37K	3.09K	6.65K	15.8K	34.8K	75.0K	178K	374K	787K	
11.0	25.5	54.9	124	287	604	1.40K	3.16K	6.80K	16.0K	35.7K	76.8K	180K	383K	806K	
11.3	26.1	56.0	127	294	619	1.43K	3.24K	6.81K	16.2K	36.0K	78.7K	182K	390K	820K	
11.5	26.7	56.2	130	300	620	1.47K	3.30K	6.98K	16.5K	36.5K	80.6K	187K	392K	825K	
11.8	27.0	57.6	133	301	634	1.50K	3.32K	7.15K	16.9K	37.4K	82.0K	190K	400K	845K	
12.0	27.4	59.0	137	309	649	1.54K	3.40K	7.32K	17.4K	38.3K	82.5K	191K	402K	866K	
12.1	28.0	60.4	140	316	665	1.58K	3.48K	7.50K	17.8K	39.0K	84.5K	196K	412K	887K	
12.4	28.7	61.9	143	324	680	1.60K	3.57K	7.68K	18.0K	39.2K	86.6K	200K	422K	909K	
12.7	29.4	62.0	147	330	681	1.62K	3.60K	7.87K	18.2K	40.0K	88.7K	205K	430K	910K	
13.0	30.0	63.4	150	332	698	1.65K	3.65K	8.06K	18.7K	40.2K	90.9K	210K	432K	931K	
13.3	30.1	64.9	154	340	715	1.69K	3.74K	8.20K	19.1K	41.2K	91.0K	215K	442K	953K	
13.7	30.9	66.5	158	348	732	1.74K	3.83K	8.25K	19.6K	42.2K	93.1K	220K	453K	976K	
14.0	31.6	68.0	160	357	750	1.78K	3.90K	8.45K	20.0K	43.0K	95.3K	221K	464K	1.00M	
14.3	32.4	68.1	162	360	768	1.80K	3.92K	8.66K	20.5K	43.2K	97.6K	226K	470K	1.20M	

Value Range	**Digi-Key Part No.**	**Pricing 10**	**50**	**200**	**5,000**	**10,000**	**Yageo America Part No.**
1/16 Watt, 1% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
1.00 - 10.0M Ω	311 - Value + “HTR-ND”	—	—	—	4.80/M	4.32/M	9C06031AXXXXFKHFT
1/16 Watt, 1% Thick Film Chip Resistors (Cut Tape)							
1.00 - 10.0M Ω	311 - Value + “HCT-ND”	.22	.59	1.36	—	—	9C06031AXXXXFKHFT

Digi-Key™ Assortment Kits 0603 Series 1% Thick Film Chip Resistor Kits - 1/16 Watt

PHH1-KIT-ND 50 each of values 1.00Ω to 7.50Ω
23 values (1150 total pieces) **$11.95**

PHH2-KIT-ND 50 each of values 10.0Ω to 97.6Ω
114 values (5700 total pieces) **$65.95**

PHH3-KIT-ND 50 each of values 100Ω to 976Ω
115 values (5750 total pieces) **$65.95**

PHH4-KIT-ND 50 each of values 1.00KΩ to 9.76KΩ
114 values (5700 total pieces) **$65.95**

PHH5-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ
114 values (5700 total pieces) **$65.95**

PHH6-KIT-ND 50 each of values 100KΩ to 1.00MΩ
120 values (6000 total pieces) **$65.95**

1%, 1/16 Watt — 0402 Series

Resistor Values

1.00	51.0	220	511	1.80K	3.92K	7.87K	12.0K	21.0K	36.0K	51.0K	82.0K	124K	261K	560K
4.70	56.0	280	560	1.82K	4.30K	8.06K	12.1K	22.0K	39.0K	51.1K	82.5K	127K	270K	562K
10.0	62.0	300	620	1.96K	4.64K	8.20K	13.0K	22.1K	39.2K	53.6K	88.7K	150K	300K	620K
22.0	68.0	301	680	2.20K	5.10K	8.87K	14.0K	24.9K	40.2K	56.0K	90.9K	180K	301K	649K
24.9	68.1	330	715	2.21K	5.36K	9.10K	15.0K	26.1K	42.2K	60.4K	91.0K	187K	332K	768K
26.1	75.0	332	910	2.40K	5.49K	9.53K	16.0K	27.0K	43.0K	61.9K	95.3K	200K	360K	1.00M
28.0	100	430	1.00K	2.70K	5.62K	10.0K	16.2K	28.0K	45.3K	62.0K	97.6K	210K	430K	3.30M
33.0	120	464	1.10K	3.01K	6.20K	10.7K	17.4K	30.0K	46.4K	64.9K	100K	220K	442K	3.60M
36.0	150	470	1.20K	3.30K	6.49K	11.0K	18.0K	30.1K	47.0K	68.0K	110K	226K	470K	
39.0	160	499	1.21K	3.74K	6.80K	11.3K	19.1K	33.0K	47.5K	78.7K	120K	240K	499K	
49.9	180	510	1.50K	3.90K	7.50K	11.5K	20.0K	35.7K	49.9K	80.6K	121K	249K	510K	

Value Range	**Digi-Key Part No.**	**Pricing 10**	**50**	**200**	**10,000**	**30,000**	**Yageo America Part No.**
1/16 Watt, 1% Thick Film Chip Resistors (Tape & Reel) 10,000 / Reel							
1.00 - 3.60M Ω	311 - Value + “LTR-ND”	—	—	—	7.56/M	6.72/M	9C04021AXXXXFLHF3
1/16 Watt, 1% Thick Film Chip Resistors (Cut Tape)							
1.00 - 3.60M Ω	311 - Value + “LCT-ND”	.39	1.04	2.38	—	—	9C0402A1XXXXFLHF3

Digi-Key™ Assortment Kits 0402 Series 1% Thick Film Chip Resistor Kits - 1/16 Watt

PHL1-KIT-ND 50 each of values 1.00Ω to 75.0Ω
17 values (850 total pieces) **$15.95**

PHL2-KIT-ND 50 each of values 100Ω to 910Ω
22 values (1100 total pieces) **$19.95**

PHL3-KIT-ND 50 each of values 1.00KΩ to 9.53KΩ
33 values (1650 total pieces) **$29.95**

PHL4-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ
56 values (2800 total pieces) **$49.95**

PHL5-KIT-ND 50 each of values 100KΩ to 1.00MΩ
32 values (1600 total pieces) **$29.95**

1%, 1/8 Watt — 0805 Series

Resistor Values

1.00	3.01	8.66	24.9	63.4	180	470	1.27K	3.40K	8.87K	24.9K	63.4K	180K	470K	1.40M	4.32M
1.02	3.09	8.87	25.5	64.9	182	475	1.30K	3.48K	9.09K	25.5K	64.9K	182K	475K	1.43M	4.42M
1.05	3.16	9.09	26.1	66.5	187	487	1.33K	3.57K	9.10K	26.1K	66.5K	187K	487K	1.47M	4.53M
1.07	3.24	9.31	26.7	68.0	191	499	1.37K	3.60K	9.31K	26.7K	68.0K	191K	499K	1.50M	4.64M
1.10	3.32	9.53	27.0	68.1	196	510	1.40K	3.65K	9.53K	27.0K	68.1K	196K	510K	1.54M	4.70M
1.13	3.40	9.76	27.4	69.8	200	511	1.43K	3.74K	9.76K	27.4K	69.8K	200K	511K	1.58M	4.75M
1.15	3.48	10.0	28.0	71.5	205	523	1.47K	3.83K	10.0K	28.0K	71.5K	205K	523K	1.62M	4.87M
1.18	3.57	10.2	28.7	73.2	210	536	1.50K	3.90K	10.2K	28.7K	73.2K	210K	536K	1.65M	4.99M
1.21	3.65	10.5	29.4	75.0	215	549	1.54K	3.92K	10.5K	29.4K	75.0K	215K	549K	1.69M	5.11M
1.24	3.74	10.7	30.0	76.8	220	560	1.58K	4.02K	10.7K	30.0K	76.8K	220K	560K	1.74M	5.23M
1.27	3.83	11.0	30.1	78.7	221	562	1.60K	4.12K	11.0K	30.1K	78.7K	221K	562K	1.80M	5.36M
1.30	3.90	11.3	30.9	80.6	226	576	1.62K	4.22K	11.3K	30.9K	80.6K	226K	576K	1.82M	5.49M
1.33	3.92	11.5	31.6	82.0	232	590	1.65K	4.30K	11.5K	31.6K	82.0K	232K	590K	1.87M	5.62M
1.37	4.02	11.8	32.4	82.5	237	604	1.69K	4.32K	11.8K	32.4K	82.5K	237K	604K	1.91M	5.76M
1.40	4.12	12.0	33.0	84.5	240	619	1.74K	4.42K	12.0K	33.0K	84.5K	240K	619K	1.96M	5.90M
1.43	4.22	12.1	33.2	86.6	243	620	1.78K	4.53K	12.1K	33.2K	86.6K	243K	620K	2.00M	6.04M
1.47	4.32	12.4	34.0	88.7	249	634	1.80K	4.64K	12.4K	34.0K	88.7K	249K	634K	2.05M	6.19M
1.50	4.42	12.7	34.8	90.9	255	649	1.82K	4.70K	12.7K	34.8K	90.9K	255K	649K	2.10M	6.34M
1.54	4.53	13.0	35.7	91.0	261	665	1.87K	4.75K	13.0K	35.7K	91.0K	261K	665K	2.15M	6.49M
1.58	4.64	13.3	36.0	93.1	267	680	1.91K	4.87K	13.3K	36.0K	93.1K	267K	680K	2.20M	6.65M
1.62	4.70	13.7	36.5	95.3	270	681	1.96K	4.99K	13.7K	36.5K	95.3K	270K	681K	2.21M	6.81M
1.65	4.75	14.0	37.4	97.6	274	698	2.00K	5.10K	14.0K	37.4K	97.6K	274K	698K	2.26M	6.98M
1.69	4.87	14.3	38.3	100	280	715	2.05K	5.11K	14.3K	38.3K	100K	280K	715K	2.32M	7.15M
1.74	4.99	14.7	39.0	102	287	732	2.10K	5.23K	14.7K	39.0K	102K	287K	732K	2.37M	7.32M
1.78	5.11	15.0	39.2	105	294	750	2.15K	5.36K	15.0K	39.2K	105K	294K	750K	2.43M	7.50M
1.80	5.23	15.4	40.2	107	300	768	2.20K	5.49K	15.4K	40.2K	107K	300K	768K	2.49M	7.68M
1.82	5.36	15.8	41.2	110	301	787	2.21K	5.60K	15.8K	41.2K	110K	301K	787K	2.55M	7.87M
1.87	5.49	16.0	42.2	113	309	806	2.26K	5.62K	16.0K	42.2K	113K	309K	806K	2.61M	8.06M
1.91	5.60	16.2	43.0	115	316	820	2.32K	5.76K	16.2K	43.0K	115K	316K	820K	2.67M	8.25M
1.96	5.62	16.5	43.2	118	324	825	2.37K	5.90K	16.5K	43.2K	118K	324K	825K	2.74M	8.45M
2.00	5.76	16.9	44.2	120	330	845	2.40K	6.04K	16.9K	44.2K	120K	330K	845K	2.80M	8.66M
2.05	5.90	17.4	45.3	121	332	866	2.43K	6.19K	17.4K	45.3K	121K	332K	866K	2.87M	8.87M
2.10	6.04	17.8	46.4	124	340	887	2.49K	6.20K	17.8K	46.4K	124K	340K	887K	2.94M	9.09M
2.15	6.19	18.0	47.0	127	348	909	2.50K	6.34K	18.0K	47.0K	127K	348K	909K	3.01M	9.31M
2.20	6.20	18.2	47.5	130	357	910	2.55K	6.49K	18.2K	47.5K	130K	357K	931K	3.09M	9.53M
2.21	6.34	18.7	48.7	133	360	931	2.61K	6.65K	18.7K	48.7K	133K	360K	953K	3.16M	9.76M
2.26	6.49	19.1	49.9	137	365	953	2.67K	6.80K	19.1K	49.9K	137K	365K	976K	3.24M	10.0M
2.32	6.65	19.6	51.0	140	374	976	2.70K	6.81K	19.6K	51.0K	140K	374K	1.00M	3.30M	
2.37	6.80	20.0	51.1	143	383	1.00K	2.74K	6.98K	20.0K	51.1K	143K	383K	1.10M	3.32M	
2.43	6.81	20.5	52.3	147	390	1.02K	2.80K	7.15K	20.5K	52.3K	147K	390K	1.13M	3.40M	
2.49	6.98	21.0	53.6	150	392	1.05K	2.87K	7.32K	21.0K	53.6K	150K	392K	1.15M	3.48M	
2.55	7.15	21.5	54.9	154	402	1.07K	2.94K	7.50K	21.5K	54.9K	154K	402K	1.18M	3.57M	
2.61	7.32	22.0	56.0	158	412	1.10K	3.00K	7.68K	22.0K	56.0K	158K	412K	1.20M	3.65M	
2.67	7.50	22.1	56.2	160	422	1.13K	3.01K	7.87K	22.1K	56.2K	160K	422K	1.21M	3.74M	
2.74	7.68	22.6	57.6	162	430	1.15K	3.09K	8.06K	22.6K	57.6K	162K	430K	1.24M	3.83M	
2.80	7.87	23.2	59.0	165	432	1.18K	3.16K	8.20K	23.2K	59.0K	165K	432K	1.27M	3.92M	
2.87	8.06	23.7	60.4	169	442	1.20K	3.24K	8.25K	23.7K	60.4K	169K	442K	1.30M	4.02M	
2.94	8.25	24.0	61.9	174	453	1.21K	3.30K	8.45K	24.0K	61.9K	174K	453K	1.33M	4.12M	
3.00	8.45	24.3	62.0	178	464	1.24K	3.32K	8.66K	24.3K	62.0K	178K	464K	1.37M	4.22M	

Value Range	**Digi-Key Part No.**	**Pricing 10**	**50**	**200**	**5,000**	**10,000**	**Yageo America Part No.**
1/8 Watt, 1% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
1.00 - 10.0M Ω	311 - Value + “CTR-ND”	—	—	—	5.40/M	4.86/M	9C08052AXXXXFKHFT
1/8 Watt, 1% Thick Film Chip Resistors (Cut Tape)							
1.00 - 10.0M Ω	311 - Value + “CCT-ND”	.25	.67	1.53	—	—	9C08052AXXXXFKHFT

Digi-Key™ Assortment Kits 0805 Series 1% Thick Film Chip Resistor Kits - 1/8 Watt

PHC1A-KIT-ND 50 each of values 1.00Ω to 9.76Ω
104 values (5200 total pieces) **$65.95**

PHC1-KIT-ND 200 each of values 1.00Ω to 9.76Ω
104 values (20800 total pieces) **$149.95**

PHC2A-KIT-ND 50 each of values 10.0Ω to 97.6Ω
114 values (5700 total pieces) **$65.95**

PHC2-KIT-ND 200 each of values 10.0Ω to 97.6Ω
114 values (22800 total pieces) **$149.95**

PHC3A-KIT-ND 50 each of values 100Ω to 976Ω
114 values (5700 total pieces) **$65.95**

PHC3-KIT-ND 200 each of values 100Ω to 976Ω
114 values (22800 total pieces) **$149.95**

PHC4A-KIT-ND 50 each of values 1.00KΩ to 9.76KΩ
115 values (5750 total pieces) **$65.95**

PHC4-KIT-ND 200 each of values 1.00KΩ to 9.76KΩ
115 values (23000 total pieces) **$149.95**

PHC5A-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ
113 values (5650 total pieces) **$65.95**

PHC5-KIT-ND 200 each of values 10.0KΩ to 97.6KΩ
113 values (22600 total pieces) **$149.95**

PHC6A-KIT-ND 50 each of values 100KΩ to 1.00MΩ
115 values (5750 total pieces) **$65.95**

PHC6-KIT-ND 200 each of values 100KΩ to 1.00MΩ
115 values (23000 total pieces) **$149.95**

(Continued)

1%, 1/4 Watt — 1206 Series

Resistor Values

1.00	2.94	7.87	23.2	61.9	180	464	1.30K	3.65K	10.0K	29.4K	76.8K	226K	590K	1.74M	4.64M
1.02	3.00	8.06	23.7	62.0	182	470	1.33K	3.74K	10.2K	30.0K	78.7K	232K	604K	1.78M	4.70M
1.05	3.01	8.20	24.0	63.4	187	475	1.37K	3.83K	10.5K	30.1K	80.6K	237K	619K	1.80M	4.75M
1.07	3.09	8.25	24.3	64.9	191	487	1.40K	3.90K	10.7K	30.9K	82.0K	240K	620K	1.82M	4.87M
1.10	3.16	8.45	24.9	66.5	196	499	1.43K	3.92K	11.0K	31.6K	82.5K	243K	634K	1.87M	4.99M
1.13	3.24	8.66	25.5	68.0	200	510	1.47K	4.02K	11.3K	32.4K	84.5K	246K	649K	1.91M	5.10M
1.15	3.30	8.87	26.1	68.1	205	511	1.50K	4.12K	11.5K	33.0K	86.6K	249K	665K	1.92M	5.11M
1.18	3.32	9.09	26.7	69.8	210	523	1.54K	4.22K	11.8K	33.2K	88.7K	255K	680K	1.96M	5.23M
1.20	3.40	9.10	27.0	71.5	215	536	1.58K	4.30K	12.0K	34.0K	90.9K	261K	681K	2.00M	5.36M
1.21	3.48	9.31	27.4	73.2	220	549	1.60K	4.32K	12.1K	34.8K	91.0K	267K	698K	2.05M	5.49M
1.24	3.57	9.53	28.0	75.0	221	560	1.62K	4.42K	12.4K	35.7K	93.1K	270K	715K	2.10M	5.60M
1.27	3.60	9.76	28.7	76.8	226	562	1.65K	4.53K	12.7K	36.0K	95.3K	274K	732K	2.15M	5.62M
1.30	3.65	10.0	29.4	78.7	232	576	1.69K	4.64K	13.0K	36.5K	97.6K	280K	750K	2.20M	5.76M
1.33	3.74	10.2	30.0	80.6	237	590	1.74K	4.70K	13.3K	37.4K	100K	287K	768K	2.21M	5.90M
1.37	3.83	10.5	30.1	82.0	240	604	1.78K	4.75K	13.7K	38.3K	102K	294K	787K	2.26M	6.04M
1.40	3.90	10.7	30.9	82.5	243	619	1.80K	4.87K	14.0K	39.0K	105K	300K	806K	2.32M	6.19M
1.43	3.92	11.0	31.6	84.5	249	620	1.82K	4.99K	14.3K	39.2K	107K	301K	820K	2.37M	6.20M
1.47	4.02	11.3	32.4	86.6	255	634	1.87K	5.10K	14.7K	40.2K	110K	309K	825K	2.40M	6.34M
1.50	4.12	11.5	33.0	88.7	261	649	1.91K	5.11K	15.0K	41.2K	113K	316K	845K	2.43M	6.49M
1.54	4.22	11.8	33.2	90.9	267	665	1.96K	5.23K	15.4K	42.2K	115K	324K	866K	2.49M	6.65M
1.58	4.30	12.0	34.0	91.0	270	680	2.00K	5.36K	15.8K	43.0K	118K	330K	887K	2.55M	6.80M
1.60	4.32	12.1	34.8	93.1	274	681	2.05K	5.49K	16.0K	43.2K	120K	332K	909K	2.61M	6.81M
1.62	4.42	12.4	35.7	95.3	280	698	2.10K	5.60K	16.2K	44.2K	121K	340K	910K	2.67M	6.98M
1.65	4.53	12.7	36.0	97.6	287	715	2.15K	5.62K	16.5K	45.3K	124K	348K	931K	2.70M	7.15M
1.69	4.64	13.0	36.5	100	294	732	2.20K	5.76K	16.9K	46.4K	127K	357K	953K	2.74M	7.32M
1.74	4.70	13.3	37.4	102	300	750	2.21K	5.90K	17.4K	47.0K	130K	360K	976K	2.80M	7.50M
1.78	4.75	13.7	38.3	105	301	768	2.26K	6.04K	17.8K	47.5K	133K	365K	1.00M	2.87M	7.68M
1.80	4.87	14.0	39.0	107	309	787	2.32K	6.19K	18.0K	48.7K	137K	374K	1.02M	2.94M	7.87M
1.82	4.99	14.3	39.2	110	316	806	2.37K	6.20K	18.2K	49.9K	140K	383K	1.05M	3.00M	8.06M
1.87	5.10	14.7	40.2	113	320	820	2.40K	6.34K	18.7K	51.0K	143K	390K	1.07M	3.01M	8.20M
1.91	5.11	15.0	41.2	115	324	825	2.43K	6.49K	19.1K	51.1K	147K	392K	1.10M	3.09M	8.25M
1.96	5.23	15.4	42.2	118	330	845	2.49K	6.65K	19.6K	52.3K	150K	402K	1.13M	3.16M	8.45M
2.00	5.36	15.8	43.0	120	331	866	2.55K	6.80K	20.0K	53.6K	154K	412K	1.15M	3.24M	8.66M
2.05	5.49	16.0	43.2	121	332	887	2.61K	6.81K	20.5K	54.9K	158K	422K	1.18M	3.30M	8.87M
2.10	5.60	16.2	44.2	124	340	909	2.67K	6.98K	21.0K	56.0K	160K	430K	1.20M	3.32M	9.09M
2.15	5.62	16.5	45.3	127	348	910	2.70K	7.15K	21.5K	56.2K	162K	432K	1.21M	3.40M	9.10M
2.20	5.76	16.9	46.4	130	357	931	2.74K	7.32K	22.0K	57.6K	165K	442K	1.24M	3.48M	9.31M
2.21	5.90	17.4	47.0	133	360	953	2.80K	7.50K	22.1K	59.0K	169K	453K	1.27M	3.57M	9.53M
2.26	6.04	17.8	47.5	137	365	976	2.87K	7.68K	22.6K	60.4K	174K	464K	1.30M	3.60M	9.76M
2.32	6.19	18.0	48.7	140	374	1.00K	2.94K	7.87K	23.2K	61.9K	178K	470K	1.33M	3.65M	10.0M
2.37	6.20	18.2	49.9	143	382	1.02K	3.00K	8.06K	23.7K	62.0K	180K	475K	1.37M	3.74M	
2.40	6.34	18.7	51.0	147	383	1.05K	3.01K	8.20K	24.0K	63.4K	182K	487K	1.40M	3.83M	
2.43	6.49	19.1	51.1	150	390	1.07K	3.09K	8.25K	24.3K	64.9K	187K	499K	1.43M	3.90M	
2.49	6.65	19.6	52.3	154	392	1.10K	3.16K	8.45K	24.9K	66.2K	191K	510K	1.47M	3.92M	
2.55	6.80	20.0	53.6	158	402	1.13K	3.24K	8.66K	25.5K	66.5K	196K	511K	1.50M	4.02M	
2.61	6.81	20.5	54.9	160	412	1.15K	3.30K	8.87K	26.1K	68.0K	200K	523K	1.54M	4.12M	
2.67	6.98	21.0	56.0	162	422	1.18K	3.32K	9.09K	26.7K	68.1K	205K	536K	1.58M	4.22M	
2.70	7.15	21.5	56.2	165	430	1.20K	3.40K	9.10K	27.0K	69.8K	210K	549K	1.60M	4.30M	
2.74	7.32	22.0	57.6	169	432	1.21K	3.48K	9.31K	27.2K	71.5K	215K	560K	1.62M	4.32M	
2.80	7.50	22.1	59.0	174	442	1.24K	3.57K	9.53K	28.0K	73.2K	220K	562K	1.65M	4.42M	
2.87	7.68	22.6	60.4	178	453	1.27K	3.60K	9.76K	28.7K	75.0K	221K	576K	1.69M	4.53M	

Value Range	Digi-Key Part No.	Pricing 10	50	200	5,000	10,000	Yageo America Part No.
1/4 Watt, 1% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
1.00 - 10.0M Ω	311 - Value + “FTR-ND”	—	—	—	7.20/M	6.48/M	9C12063AXXXXFKHFT
1/4 Watt, 1% Thick Film Chip Resistors (Cut Tape)							
1.00 - 10.0M Ω	311 - Value + “FCT-ND”	.33	.89	2.04	—	—	9C12063AXXXXFKHFT

Digi-Key™ Assortment Kits 1206 Series 1% Thick Film Chip Resistor Kits - 1/4 Watt

PHF1A-KIT-ND 50 each of values 1.00Ω to 9.76Ω 114 values (5700 total pieces) **$99.95**

PHF1-KIT-ND 200 each of values 1.00Ω to 9.76Ω 114 values (22800 total pieces)................ **$219.95**

PHF2A-KIT-ND 50 each of values 10.0Ω to 97.6Ω 114 values (5700 total pieces) **$99.95**

PHF2-KIT-ND 200 each of values 10.0Ω to 97.6Ω 114 values (22800 total pieces) **$219.95**

PHF3A-KIT-ND 50 each of values 100Ω to 976Ω 117 values (5850 total pieces) **$99.95**

PHF3-KIT-ND 200 each of values 100Ω to 976Ω 117 values (23400 total pieces) **$219.95**

PHF4A-KIT-ND 50 each of values 1.00KΩ to 9.76KΩ 114 values (5700 total pieces) **$99.95**

PHF4-KIT-ND 200 each of values 1.00KΩ to 9.76KΩ 114 values (22800 total pieces) **$219.95**

PHF5A-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ 115 values (5750 total pieces) **$99.95**

PHF5-KIT-ND 200 each of values 10.0KΩ to 97.6KΩ 115 values (23000 total pieces)................ **$219.95**

PHF6A-KIT-ND 50 each of values 100KΩ to 1.00MΩ 116 values (5800 total pieces) **$99.95**

PHF6-KIT-ND 200 each of values 100KΩ to 1.00MΩ 116 values (23200 total pieces)................ **$219.95**

5%, 1/16 Watt — 0402 Series

Resistor Values

0.0	3.9	12	33	68	180	360	680	2.0K	3.9K	7.5K	22K	47K	120K	330K	3.0M
1.0	4.3	15	36	75	200	390	820	2.2K	4.3K	8.2K	24K	56K	150K	430K	3.3M
1.1	4.7	18	39	82	220	430	910	2.4K	4.7K	10K	27K	62K	180K	470K	
2.0	5.1	20	43	91	240	470	1.0K	2.7K	5.1K	11K	30K	68K	200K	560K	
2.2	5.6	22	47	100	270	510	1.2K	3.0K	5.6K	12K	33K	82K	220K	680K	
3.0	8.2	27	51	150	300	560	1.5K	3.3K	6.2K	15K	39K	100K	270K	1.0M	
3.3	10	30	56	160	330	620	1.8K	3.6K	6.8K	18K	43K	110K	300K	1.5M	

Value Range	Digi-Key Part No.	Pricing 10	50	200	10,000	30,000	Yageo America Part No.
1/16 Watt, 5% Thick Film Chip Resistors (Tape & Reel) 10,000 / Reel							
0.0 - 3.30M Ω	311 - Value + “JTR-ND”	—	—	—	4.86/M	4.32/M	9C04021AXXXXJLHF3
1/16 Watt, 5% Thick Film Chip Resistors (Cut Tape)							
0.0 - 3.30M Ω	311 - Value + “JCT-ND”	.25	.67	1.53	—	—	9C04021AXXXXJLHF3

Digi-Key™ Assortment Kits 0402 Series 5% Thick Film Chip Resistor Kits - 1/16 Watt

PHJ1A-KIT-ND 50 each of every other value from 1.0, 2.0, 3.0, 3.9, etc. to 1.0MΩ 52 values (2600 total pieces) **$29.95**

PHJ1-KIT-ND 200 each of every other value from 1.0, 2.0, 3.0, 3.9, etc. to 1.0MΩ 52 values (10400 total pieces) **$65.95**

PHJ2A-KIT-ND 50 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. to 680KΩ 51 values (2550 total pieces) **$29.95**

PHJ2-KIT-ND 200 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. to 680KΩ 51 values (10200 total pieces) **$65.95**

5%, 1/16 Watt — 0603 Series

Resistor Values

0.0	3.0	8.2	24	68	200	560	1.6K	4.7K	13K	39K	110K	330K	910K	2.7M	8.2M
1.0	3.3	9.1	27	75	220	620	1.8K	5.1K	15K	43K	120K	360K	1.0M	3.0M	10M
1.1	3.6	10	30	82	240	680	2.0K	5.6K	16K	47K	130K	390K	1.1M	3.3M	
1.2	3.9	11	33	91	270	750	2.2K	6.2K	18K	51K	150K	430K	1.2M	3.6M	
1.3	4.3	12	36	100	300	820	2.4K	6.8K	20K	56K	160K	470K	1.3M	3.9M	
1.5	4.7	13	39	110	330	910	2.7K	7.5K	22K	62K	180K	510K	1.5M	4.3M	
1.6	5.1	15	43	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K	1.6M	4.7M	
1.8	5.6	16	47	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K	1.8M	5.1M	
2.2	6.2	18	51	150	430	1.2K	3.6K	10K	30K	82K	240K	680K	2.0M	5.6M	
2.4	6.8	20	56	160	470	1.3K	3.9K	11K	33K	91K	270K	750K	2.2M	6.2M	
2.7	7.5	22	62	180	510	1.5K	4.3K	12K	36K	100K	300K	820K	2.4M	6.8M	

Value Range	Digi-Key Part No.	Pricing 10	50	200	5,000	10,000	Yageo America Part No.
1/16 Watt, 5% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
0.0 - 10M Ω	311 - Value + “GTR-ND”	—	—	—	3.30/M	2.97/M	9C06031AXXXXJLHFT
1/16 Watt, 5% Thick Film Chip Resistors (Cut Tape)							
0.0 - 10M Ω	311 - Value + “GCT-ND”	.15	.41	.94	—	—	9C06031AXXXXJLHFT

Digi-Key™ Assortment Kits 0603 Series 5% Thick Film Chip Resistor Kits - 1/16 Watt

PHG1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (3600 total pieces) **$25.95**

PHG1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (14400 total pieces)............................. **$65.95**

PHG2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. to 1.0MΩ 72 values (3600 total pieces) **$25.95**

PHG2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. to 1.0MΩ 72 values (14400 total pieces)............................. **$65.95**

5%, 1/8 Watt — 0805 Series

Resistor Values

0.0	2.7	7.5	22	62	180	510	1.5K	4.3K	12K	36K	100K	300K	820K	2.4M	6.8M
1.0	3.0	8.2	24	68	200	560	1.6K	4.7K	13K	39K	110K	330K	910K	2.7M	7.5M
1.1	3.3	9.1	27	75	220	620	1.8K	5.1K	15K	43K	120K	360K	1.0M	3.0M	8.2M
1.2	3.6	10	30	82	240	680	2.0K	5.6K	16K	47K	130K	390K	1.1M	3.3M	9.1M
1.3	3.9	11	33	91	270	750	2.2K	6.2K	18K	51K	150K	430K	1.2M	3.6M	10M
1.5	4.3	12	36	100	300	820	2.4K	6.8K	20K	56K	160K	470K	1.3M	3.9M	
1.6	4.7	13	39	110	330	910	2.7K	7.5K	22K	62K	180K	510K	1.5M	4.3M	
1.8	5.1	15	43	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K	1.6M	4.7M	
2.0	5.6	16	47	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K	1.8M	5.1M	
2.2	6.2	18	51	150	430	1.2K	3.6K	10K	30K	82K	240K	680K	2.0M	5.6M	
2.4	6.8	20	56	160	470	1.3K	3.9K	11K	33K	91K	270K	750K	2.2M	6.2M	

Value Range	Digi-Key Part No.	Pricing 10	50	200	5,000	10,000	Yageo America Part No.
1/8 Watt, 5% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
0.0 - 10M Ω	311 - Value + “ATR-ND”	—	—	—	4.50/M	4.05/M	9C08052AXXXXJLHFT
1/8 Watt, 5% Thick Film Chip Resistors (Cut Tape)							
0.0 - 10M Ω	311 - Value + “ACT-ND”	.21	.56	1.28	—	—	9C08052AXXXXJLHFT

Digi-Key™ Assortment Kits 0805 Series 5% Thick Film Chip Resistor Kits - 1/8 Watt

PHA1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, to 910KΩ 73 values (3650 total pieces) **$39.95**

PHA1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, to 910KΩ 73 values (14600 total pieces) **$65.95**

PHA2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, to 1.0MΩ 73 values (3650 total pieces) **$39.95**

PHA2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, to 1.0MΩ 73 values (14600 total pieces) **$65.95**

5%, 1/4 Watt — 1206 Series

Resistor Values

0.0	2.7	7.5	22	68	200	560	1.6K	4.7K	13K	39K	110K	330K	910K	2.7M	7.5M
1.0	3.0	8.2	24	75	220	620	1.8K	5.1K	15K	43K	120K	360K	1.0M	3.0M	8.2M
1.1	3.3	9.1	27	82	240	680	2.0K	5.6K	16K	47K	130K	390K	1.1M	3.3M	9.1M
1.2	3.6	10	30	91	270	750	2.2K	6.2K	18K	51K	150K	430K	1.2M	3.6M	10M
1.3	3.9	11	33	100	300	820	2.4K	6.8K	20K	56K	160K	470K	1.3M	3.9M	11M
1.5	4.3	12	36	110	330	910	2.7K	7.5K	22K	62K	180K	510K	1.5M	4.3M	12M
1.6	4.7	13	39	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K	1.6M	4.7M	13M
1.8	5.1	15	43	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K	1.8M	5.1M	
2.0	5.6	16	51	150	430	1.2K	3.6K	10K	30K	82K	240K	680K	2.0M	5.6M	
2.2	6.2	18	56	160	470	1.3K	3.9K	11K	33K	91K	270K	750K	2.2M	6.2M	
2.4	6.8	20	62	180	510	1.5K	4.3K	12K	36K	100K	300K	820K	2.4M	6.8M	

Value Range	Digi-Key Part No.	Pricing 10	50	200	5,000	10,000	Yageo America Part No.
1/4 Watt, 5% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
0.0 - 13M Ω	311 - Value + “ETR-ND”	—	—	—	5.10/M	4.59/M	9C12063AXXXXJLHFT
1/4Watt, 5% Thick Film Chip Resistors (Cut Tape)							
0.0 - 13M Ω	311 - Value + “ECT-ND”	.23	.63	1.45	—	—	9C12063AXXXXJLHFT

Digi-Key™ Assortment Kits 1206 Series 5% Thick Film Chip Resistor Kits - 1/4 Watt

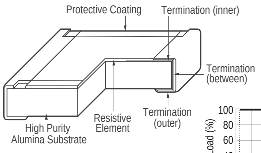
PHE1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (3600 total pieces).. **$39.95**

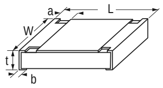
PHE1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (14400 total pieces) **$99.95**

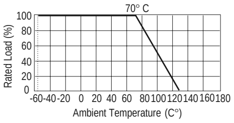
PHE2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. to 1.0MΩ 72 values (3600 total pieces).. **$39.95**

PHE2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. to 1.0MΩ 72 values (14400 total pieces).. **$99.95**

Panasonic 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512
1% Precision Thick Film Chip Resistors
Surface Mount Available In 1/20, 1/16, 1/10, 1/8, 1/4, 1/2 and 1 Watt







Size	Power Rating at 70°	Maximum RCWV*	Maximum Overload Voltage	Dimensions L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0201	1/20 W	15 V	30 V	0.60	0.30	0.12	0.15	0.25	10 ~ 1MΩ±100ppm/°C	ERJ-1GEFxxxC
0402	1/16 W	50 V	100 V	1.00	0.50	0.20	0.25	0.35	10 ~ 91Ω±100ppm/°C, 100 ~ 100K±50ppm/°C 10 ~ 1MΩ±100ppm/°C	ERJ-2RKFxxxxX
0603	1/16 W - (1/10 W)**	50 V	100 V	1.60	0.80	0.30	0.30	0.45	10 ~ 1MΩ±100ppm/°C	ERJ-3EKFxxxxV
0805	1/10 W - (1/8 W)**	150 V	200 V	2.00	1.25	0.40	0.40	0.60	10 ~ 2.2MΩ±100ppm/°C	ERJ-6ENFxxxxV
1206	1/8 W - (1/4 W)**	200 V	400 V	3.20	1.60	0.50	0.50	0.60		ERJ-8ENFxxxxV
1210	1/4 W	200 V	400 V	3.20	2.50	0.50	0.50	0.60	10 ~ 1MΩ±100ppm/°C	ERJ-14NFxxxxU
2010	1/2 W	200 V	400 V	5.00	2.50	0.60	0.60	0.60		ERJ-12SFxxxxU
2512	1 W	200 V	400 V	6.40	3.20	0.65	0.60	0.60		ERJ-1TYFxxxU

* Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Values}}$, or max. RCWV listed above, whichever is less

** Available for reduction of load of pulse characteristics (RCWV x 2.5 RCWV x 2.0, R≥1.1kΩ)v600

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	15,000	24,000	25,000	30,000	Panasonic Part No.
0201, 1/20 W	See Chart	P + Value + “ABCT-ND”	2.64	7.10	16.32	55.68	P + Value + “ABTR-ND”	15,000	—	—	—	—	41.04/M	—	—	36.48/M	ERJ-1GEFxxxC
0402, 1/16 W	10.0 ~ 1.00M	P + Value + “LCT-ND”	.98	2.65	6.08	20.74	P + Value + “LTR-ND”	10,000	—	—	8.51/M	—	—	—	—	7.56/M	ERJ-2RKFxxxxX
0603, 1/16 W	10.0 ~ 2.20M	P + Value + “HCT-ND”	.90	2.42	5.57	18.99	P + Value + “HTR-ND”	5,000	—	7.35/M	6.62/M	—	—	—	5.88/M	—	ERJ-3EKFxxxxV
0805, 1/10 W	10.0 ~ 2.20M	P + Value + “CCT-ND”	.91	2.44	5.61	19.14	P + Value + “CTR-ND”	5,000	—	7.80/M	7.02/M	—	—	—	6.24/M	—	ERJ-6ENFxxxxV
1206, 1/8 W	10.0 ~ 2.20M	P + Value + “FCT-ND”	1.17	3.15	7.23	24.65	P + Value + “FTR-ND”	5,000	—	13.50/M	12.15/M	—	—	—	10.80/M	—	ERJ-8ENFxxxxV
1210, 1/4 W	10.0 ~ 1.00M	P + Value + “AACT-ND”	3.78	10.18	23.38	79.75	P + Value + “AATR-ND”	5,000	—	70.50/M	63.45/M	—	—	—	56.40/M	—	ERJ-14NFxxxxU
2010, 1/2 W	See Chart	P + Value + “ACCT-ND”	6.88	18.50	42.50	145.00	P + Value + “ACTR-ND”	5,000	—	138.00/M	124.20/M	—	—	—	110.40/M	—	ERJ-12SFxxxxU
2512, 1 W	See Chart	PT + Value + “AECT-ND”	7.08	25.08	82.60	342.20	PT + Value + “AETR-ND”	4,000	273.60/M	—	—	228.00/M	—	189.24/M	—	—	ERJ-1TYFxxxU

Panasonic Standard Resistor Values

10.0	25.5	64.9	165	422	1.07K	2.74K	6.98K	17.8K	45.3K	115K	294K	750K
10.2	26.1	66.5	169	432	1.10K	2.80K	7.15K	18.2K	46.4K	118K	301K	768K
10.5	26.7	68.1	174	442	1.13K	2.87K	7.32K	18.7K	47.5K	121K	309K	787K
10.7	27.4	69.8	178	453	1.15K	2.94K	7.50K	19.1K	48.7K	124K	316K	806K
11.0	28.0	71.5	182	464	1.18K	3.01K	7.68K	19.6K	49.9K	127K	324K	825K
11.3	28.7	73.2	187	475	1.21K	3.09K	7.87K	20.0K	51.1K	130K	332K	845K
11.5	29.4	75.0	191	487	1.24K	3.16K	8.06K	20.5K	52.3K	133K	340K	866K
11.8	30.1	76.8	196	499	1.27K	3.24K	8.25K	21.0K	53.6K	137K	348K	887K
12.1	30.9	78.7	200	511	1.30K	3.32K	8.45K	21.5K	54.9K	140K	357K	909K
12.4	31.6	80.6	205	523	1.33K	3.40K	8.66K	22.1K	56.2K	143K	365K	931K
12.7	32.4	82.5	210	536	1.37K	3.48K	8.87K	22.6K	57.6K	147K	374K	953K
13.0	33.2	84.5	215	549	1.40K	3.57K	9.09K	23.2K	59.0K	150K	383K	976K
13.3	34.0	86.6	221	562	1.43K	3.65K	9.31K	23.7K	60.4K	154K	392K	1.00M
13.7	34.8	88.7	226	576	1.47K	3.74K	9.53K	24.3K	61.9K	158K	402K	1.10M
14.0	35.7	90.9	232	590	1.50K	3.83K	9.76K	24.9K	63.4K	162K	412K	1.20M
14.3	36.5	93.1	237	604	1.54K	3.92K	10.0K	25.5K	64.9K	165K	422K	1.30M
14.7	37.4	95.3	243	619	1.58K	4.02K	10.2K	26.1K	66.5K	169K	432K	1.50M
15.0	38.3	97.6	249	634	1.62K	4.12K	10.5K	26.7K	68.1K	174K	442K	1.60M
15.4	39.2	100	255	649	1.65K	4.22K	10.7K	27.4K	69.8K	178K	453K	1.80M
15.8	40.2	102	261	665	1.69K	4.32K	11.0K	28.0K	71.5K	182K	464K	2.00M
16.2	41.2	105	267	681	1.74K	4.42K	11.3K	28.7K	73.2K	187K	475K	2.20M
16.5	42.2	107	274	698	1.78K	4.53K	11.5K	29.4K	75.0K	191K	487K	
16.9	43.2	110	280	715	1.82K	4.64K	11.8K	30.1K	76.8K	196K	499K	
17.4	44.2	113	287	732	1.87K	4.75K	12.1K	30.9K	78.7K	200K	511K	
17.8	45.3	115	294	750	1.91K	4.87K	12.4K	31.6K	80.6K	205K	523K	
18.2	46.4	118	301	768	1.96K	4.99K	12.7K	32.4K	82.5K	210K	536K	
18.7	47.5	121	309	787	2.00K	5.11K	13.0K	33.2K	84.5K	215K	549K	
19.1	48.7	124	316	806	2.05K	5.23K	13.3K	34.0K	86.6K	221K	562K	
19.6	49.9	127	324	825	2.10K	5.36K	13.7K	34.8K	88.7K	226K	576K	
20.0	51.1	130	332	845	2.15K	5.49K	14.0K	35.7K	90.9K	232K	590K	
20.5	52.3	133	340	866	2.21K	5.62K	14.3K	36.5K	93.1K	237K	604K	
21.0	53.6	137	348	887	2.26K	5.76K	14.7K	37.4K	95.3K	243K	619K	
21.5	54.9	140	357	909	2.32K	5.90K	15.0K	38.3K	97.6K	249K	634K	
22.1	56.2	143	365	931	2.37K	6.04K	15.4K	39.2K	100K	255K	649K	
22.6	57.6	147	374	953	2.43K	6.19K	15.8K	40.2K	102K	261K	665K	
23.2	59.0	150	383	976	2.49K	6.34K	16.2K	41.2K	105K	267K	681K	
23.7	60.4	154	392	1.00K	2.55K	6.49K	16.5K	42.2K	107K	274K	698K	
24.3	61.9	158	402	1.02K	2.61K	6.65K	16.9K	43.2K	110K	280K	715K	
24.9	63.4	162	412	1.05K	2.67K	6.81K	17.4K	44.2K	113K	287K	732K	

Panasonic 0201 Values

10	39	150	560	2.2K	8.2K	33K	120K	470K
11	43	160	620	2.4K	9.1K	36K	130K	510K
12	47	180	680	2.7K	10K	39K	150K	560K
13	51	200	750	3.0K	11K	43K	160K	620K
15	56	220	820	3.3K	12K	47K	180K	680K
16	62	240	910	3.6K	13K	51K	200K	750K
18	68	270	1.0K	3.9K	15K	56K	220K	820K
20	75	300	1.1K	4.3K	16K	62K	240K	910K
22	82	330	1.2K	4.7K	18K	68K	270K	1.0M
24	91	360	1.3K	5.1K	20K	75K	300K	
27	100	390	1.5K	5.6K	22K	82K	330K	
30	110	430	1.6K	6.2K	24K	91K	360K	
33	120	470	1.8K	6.8K	27K	100K	390K	
36	130	510	2.0K	7.5K	30K	110K	430K	

Panasonic 2512 Values

10	100	270	1K	10K	100K	150K	330K	1M

Panasonic 2010 Values

10.0	27.4	75.0	205	562	1.54K	4.22K	11.5K	31.6K	86.6K	237K	649K
10.5	28.7	78.7	215	590	1.62K	4.42K	12.1K	33.2K	90.9K	249K	681K
11.0	30.1	82.5	226	619	1.69K	4.64K	12.7K	34.8K	95.3K	261K	715K
11.5	31.6	86.6	237	649	1.78K	4.87K	13.3K	36.5K	100K	274K	750K
12.1	33.2	90.9	249	681	1.87K	5.11K	14.0K	38.3K	105K	287K	787K
12.7	34.8	95.3	261	715	1.96K	5.36K	14.7K	40.2K	110K	301K	825K
13.3	36.5	100	274	750	2.05K	5.62K	15.4K	42.2K	115K	316K	866K
14.0	38.3	105	287	787	2.15K	5.90K	16.2K	44.2K	121K	332K	909K
14.7	40.2	110	301	825	2.26K	6.19K	16.9K	46.4K	127K	348K	953K
15.4	42.2	115	316	866	2.37K	6.49K	17.8K	48.7K	133K	365K	1.00M
16.2	44.2	121	332	909	2.49K	6.81K	18.7K	51.1K	140K	383K	
16.9	46.4	127	348	953	2.61K	7.15K	19.6K	53.6K	147K	402K	
17.8	48.7	133	365	1.00K	2.74K	7.50K	20.5K	56.2K	154K	422K	
18.7	51.1	140	383	1.05K	2.87K	7.87K	21.5K	59.0K	162K	442K	
19.6	53.6	147	402	1.10K	3.01K	8.25K	22.6K	61.9K	169K	464K	
20.5	56.2	154	422	1.15K	3.16K	8.66K	23.7K	64.9K	178K	487K	
21.5	59.0	162	442	1.21K	3.32K	9.09K	24.9K	68.1K	187K	511K	
22.6	61.9	169	464	1.27K	3.48K	9.53K	26.1K	71.5K	196K	536K	
23.7	64.9	178	487	1.33K	3.65K	10.0K	27.4K	75.0K	205K	562K	
24.9	68.1	187	511	1.40K	3.83K	10.5K	28.7K	78.7K	215K	590K	
26.1	71.5	196	536	1.47K	4.02K	11.0K	30.1K	82.5K	226K	619K	

Panasonic 1% Chip Resistors

Digi-Key® Assortment Kits

Digi-Key® 0402 1% Chip Resistor Kits

RSM1L-ND	50 ea. of Values 10.0Ω to 97.6Ω	**$189.00**
RSM2L-ND	50 ea. of Values 100Ω to 976Ω	**$189.00**
RSM3L-ND	50 ea. of Values 1.00KΩ to 9.76KΩ	**$189.00**
RSM4L-ND	50 ea. of Values 10.0KΩ to 97.6KΩ	**$189.00**
RSM5L-ND	50 ea. of Values 100KΩ to 1.00MΩ	**$189.00**

Digi-Key® 0603 1% Chip Resistor Kits

RSM1H-ND	50 ea. of Values 10.0Ω to 97.6Ω	**$129.00**
RSM2H-ND	50 ea. of Values 100Ω to 976Ω	**$129.00**
RSM3H-ND	50 ea. of Values 1.00KΩ to 9.76KΩ	**$129.00**
RSM4H-ND	50 ea. of Values 10.0KΩ to 97.6KΩ	**$129.00**
RSM5H-ND	50 ea. of Values 100KΩ to 1.00MΩ	**$129.00**

Digi-Key® 1206 1% Chip Resistor Kits

RSM1FA-ND	50 ea. of Values 10Ω to 97.6Ω	**$129.95**
RSM1F-ND	200 ea. of Values 10Ω to 97.6Ω	**$495.00**
RSM2FA-ND	50 ea. of Values 100Ω to 976Ω	**$129.95**
RSM2F-ND	200 ea. of Values 100Ω to 976Ω	**$495.00**
RSM3FA-ND	50 ea. of Values 1.00KΩ to 9.76KΩ	**$119.95**
RSM3F-ND	200 ea. of Values 1.00KΩ to 9.76KΩ	**$495.00**
RSM4FA-ND	50 ea. of Values 10.0KΩ to 97.6KΩ	**$129.95**
RSM4F-ND	200 ea. of Values 10.0KΩ to 97.6KΩ	**$495.00**
RSM5FA-ND	50 ea. of Values 100KΩ to 1.00MΩ	**$129.95**
RSM5F-ND	200 ea. of Values 100KΩ to 1.00MΩ	**$495.00**

Digi-Key® 0805 1% Chip Resistor Kits

RSM1CA-ND	50 ea. of Values 10Ω to 97.6Ω	**$119.95**
RSM1C-ND	200 ea. of Values 10Ω to 97.6Ω	**$495.00**
RSM2CA-ND	50 ea. of Values 100Ω to 976Ω	**$119.95**
RSM2C-ND	200 ea. of Values 100Ω to 976Ω	**$495.00**
RSM3CA-ND	50 ea. of Values 1.00KΩ to 9.76KΩ	**$119.95**
RSM3C-ND	200 ea. of Values 1.00KΩ to 9.76KΩ	**$495.00**
RSM4CA-ND	50 ea. of Values 10.0KΩ to 97.6KΩ	**$119.95**
RSM4C-ND	200 ea. of Values 10.0KΩ to 97.6KΩ	**$495.00**
RSM5CA-ND	50 ea. of Values 100KΩ to 1.00MΩ	**$119.95**
RSM5C-ND	200 ea. of Values 100KΩ to 1.00MΩ	**$495.00**

Panasonic® 0201/0402/0603/0805/1206/1210/2010/2512

Surface Mount 5% Thick Film Chip Resistors — 1/20, 1/16, 1/10, 1/8, 1/4, 1/2 and 1 Watt

0201 Series — Standard Resistor Values
See below for complete part numbers when ordering.

10	47	220	1.0K	4.7K	22K	100K	470K
12	56	270	1.2K	5.6K	27K	120K	560K
15	68	330	1.5K	6.8K	33K	150K	680K
18	82	390	1.8K	8.2K	39K	180K	820K
22	100	470	2.2K	10K	47K	220K	1.0M
27	120	560	2.7K	12K	56K	270K	
33	150	680	3.3K	15K	68K	330K	
39	180	820	3.9K	18K	82K	390K	

0402/0603/0805/1206/1210/2010/2512 Series — Standard Resistor Values
See below for complete part numbers when ordering.

* 12M, 15M, 18M and 22M are 10% Tolerance

1.0	2.4	5.6	13	33	75	180	430	1.0K	2.4K	5.6K	13K	33K	75K	180K	430K	1.0M	2.4M	5.6M	18M*
1.1	2.7	6.2	15	36	82	200	470	1.1K	2.7K	6.2K	15K	36K	82K	200K	470K	1.1M	2.7M	6.2M	22M*
1.2	3.0	6.8	16	39	91	220	510	1.2K	3.0K	6.8K	16K	39K	91K	220K	510K	1.2M	3.0M	6.8M	
1.3	3.3	7.5	18	43	100	240	560	1.3K	3.3K	7.5K	18K	43K	100K	240K	560K	1.3M	3.3M	7.5M	
1.5	3.6	8.2	20	47	110	270	620	1.5K	3.6K	8.2K	20K	47K	110K	270K	620K	1.5M	3.6M	8.2M	
1.6	3.9	9.1	22	51	120	300	680	1.6K	3.9K	9.1K	22K	51K	120K	300K	680K	1.6M	3.9M	9.1M	
1.8	4.3	10	24	56	130	330	750	1.8K	4.3K	10K	24K	56K	130K	330K	750K	1.8M	4.3M	10M	
2.0	4.7	11	27	62	150	360	820	2.0K	4.7K	11K	27K	62K	150K	360K	820K	2.0M	4.7M	12M*	
2.2	5.1	12	30	68	160	390	910	2.2K	5.1K	12K	30K	68K	160K	390K	910K	2.2M	5.1M	15M*	

Digi-Key® 1206, 1/4W, 5% Chip Resistor Assortments

CR1A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**
CR1-KIT-ND 200 ea. (same values as kit above) .. **$329.00**

CR2A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**
CR2-KIT-ND 200 ea. (same values as kit above) ... **$329.00**

Digi-Key® 0805, 1/8W, 5% Chip Resistor Assortments

CR3A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**
CR3-KIT-ND 200 ea. (same values as kit above) **$349.00**

CR4A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**
CR4-KIT-ND 200 ea. (same values as kit above) **$349.00**

Digi-Key® 0603, 1/10W, 5% Chip Resistor Assortments

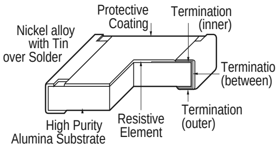
CR5A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050)......................... **$85.95**
CR5-KIT-ND 200 ea. (same values as kit above) .. **$379.00**

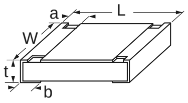
CR6A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$85.95**
CR6-KIT-ND 200 ea. (same values as kit above) .. **$379.00**

Digi-Key® 0402, 1/16W, 5% Chip Resistor Assortments

CR7A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, 22, 1.0M (3,050) **$89.95**
CR7-KIT-ND 200 ea. (same values as kit above) .. **$399.00**

CR8A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$89.95**
CR8-KIT-ND 200 ea. (same values as kit above) .. **$399.00**





Type	Power Rating	Max. RCWV	Overload Voltage	L	W	t	a	b	Temperature Coefficient (ppm/°C)	Panasonic Part No.
				Dimensions (mm)						
0201	1/20W	15V	30V	0.60	0.30	0.20	0.15	0.15	<10Ω: -100ppm/°C to +600ppm/°C 10Ω ~ 1MΩ: ±200ppm°C 1MΩ >: -400ppm/°C to +600ppm/°C	ERJ-1GEJ
0402	1/16W	50V	100V	1.00	0.50	0.35	0.20	0.25		ERJ-2GEJ
0603	1/10W	50V	100V	1.60	0.80	0.45	0.30	0.30		ERJ-3GEY
0805	1/8W	150V	200V	2.00	1.25	0.60	0.40	0.40		ERJ-6GEY
1206	1/4W	200V	400V	3.20	1.60	0.60	0.50	0.50		ERJ-8GEY
1210	1/4W	200V	400V	3.20	2.50	0.60	0.50	0.50		ERJ-14Y
2010	1/2W	200V	400V	5.00	2.50	0.60	0.60	0.60		ERJ-12ZY
2512	1W	250V	500V	6.40	3.20	0.60	0.65	0.60		ERJ-1TY

Description	Value Range	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	15,000	Panasonic Part No.
0201, 1/20 W, 5%	(10-1.0MΩ)	P + Value + “AGCT-ND”†	1.91	5.14	11.82	40.31	P + Value + “AGTR-ND”†	15,000	—	—	—	—	26.73/M	ERJ-1GEJxxxC
0402, 1/16 W, 5%	(1~10MΩ)	P + Value + “JCT-ND”†	.84	2.26	5.19	17.69	P + Value + “JTR-ND”†	10,000	—	—	5.67/M	—	—	ERJ-2GEJxxxX
0603, 1/10 W, 5%	(1~22MΩ)*	P + Value + “GCT-ND”†	.80	2.15	4.93	16.82	P + Value + “GTR-ND”†	5,000	—	4.50/M	4.05/M	—	—	ERJ-3GEYJxxxV
0805, 1/8 W, 5%	(1~22MΩ)*	P + Value + “ACT-ND”†	.80	2.15	4.93	16.82	P + Value + “ATR-ND”†	5,000	—	4.80/M	4.32/M	—	—	ERJ-6GEYJxxxV
1206, 1/4 W, 5%	(1~22MΩ)*	P + Value + “ECT-ND”†	.94	2.53	5.82	19.87	P + Value + “ETR-ND”†	5,000	—	8.55/M	7.70/M	—	—	ERJ-8GEYJxxxV
1210, 1/4 W, 5%	(1~10MΩ)	P + Value + “VCT-ND”	2.70	7.25	16.66	56.84	P + Value + “VTR-ND”	5,000	—	46.80/M	42.12/M	—	—	ERJ-14YJxxxU
2010, 1/2 W, 5%	(1~10MΩ)	P + Value + “WCT-ND”	4.00	10.77	24.74	84.39	P + Value + “WTR-ND”	5,000	—	75.30/M	67.77/M	—	—	ERJ-12ZYJxxxU
2512, 1 W, 5%	(1~2.2MΩ)	PT + Value + “XCT-ND”	3.96	14.03	46.20	191.40	PT + Value + “XTR-ND”	4,000	148.80/M	—	—	124.00/M	—	ERJ-1TYJxxxU

† 0.0Ω (zerohm) value also available. ⋆ 12M, 15M, 18M and 22M are 10% tolerance.

Panasonic® 0603/0805/1206/1210/2010/2512 5% and 0603/0805/1206 1%

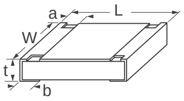
Surface Mount Ultra Low Ohm Thick Film Chip Resistors — 1/10, 1/8, 1/4, 1/2 and 1 Watt

Standard Resistor Values
See below for complete part numbers when ordering.

.10	.15	.22	.33	.47	.68	1.0	1.5	2.2	3.3	4.7	6.8	9.1
.12	.18	.27	.39	.56	.82	1.2	1.8	2.7	3.9	5.6	8.2	

Rated Continuous Working Voltage (RCWV): The rated voltage at each resistance should be calculated from the following equation: $RCWV=\sqrt{P \times R}$

RCWV(V):P(W):R(Ω)
Max. overload voltage = RCWVx2.5



Type	Type (Power Rating)	L	W	t	a	b	Temperature Coefficient (ppm/°C)	Panasonic Part No.
		Dimensions (mm)						
0603	1/10 (1/5)* Watt	1.6	0.8	0.45	0.30	0.30	.1 ~ .82Ω ±300ppm / °C/1.0 ~ 8.2 Ω + ±200ppm/C	ERJ-3RS/Q
0805	1/8 (1/4)* Watt	2.00	1.25	0.60	0.40	0.40	.1 ~ .91Ω ±250ppm / °C/1.0 ~ 9.1 Ω + ±200ppm/C	ERJ-6RS/Q
1206	1/4 (1/3)* Watt	3.20	1.60	0.60	0.50	0.50	.1 ~ .91Ω ±250ppm / °C/1.0 ~ 9.1 Ω + ±200ppm/C	ERJ-8RS/Q
1210	1/4 (1/2)* Watt	3.20	2.50	0.60	0.50	0.50	.1 ~ .91Ω ±200ppm / °C/1.0 ~ 9.1 Ω + ±100ppm/C	ERJ-14RS/Q
2010	1/2 Watt	5.00	2.50	0.60	0.60	0.60	.22 ~ 1.0Ω ±200ppm / °C	ERJ-12ZQJ
2512	1 Watt	6.40	3.20	0.60	0.65	0.60	.1 ~ .91Ω ±200ppm / °C/1.0 ~ 9.1 Ω + ±100ppm/C	ERJ-1TRS/Q

Description	Value Range	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	Panasonic Part No.
0603, 1/10 (1/5)* W, 5%	(.1 ~ .18Ω)	P + Value + “AHCT-ND”	3.26	8.77	20.15	68.76	P + Value + “AHTR-ND”	5,000	—	59.13/M	53.22/M	—	ERJ-3RSJxxxV
0603, 1/10 (1/5)* W, 5%	(.22 ~ 8.2Ω)	P + Value + “AHCT-ND”	1.91	5.13	11.78	40.19	P + Value + “AHTR-ND”	5,000	—	29.58/M	26.63/M	—	ERJ-3RQJxxxV
0603, 1/10 (1/5)* W, 1%	(.1 ~ .18Ω)	P + Value + “AJCT-ND”	5.36	14.43	33.15	113.10	P + Value + “AJTR-ND”	5,000	—	105.00/M	94.50/M	—	ERJ-3RSFxxxV
0603, 1/10 (1/5)* W, 1%	(.22 ~ 8.2Ω)	P + Value + “AJCT-ND”	3.03	8.14	18.70	63.80	P + Value + “AJTR-ND”	5,000	—	54.00/M	48.60/M	—	ERJ-3RQFxxxV
0805, 1/8 (1/4)* W, 5%	(.1 ~ .18Ω)	P + Value + “BCT-ND”	14.03	37.74	86.70	295.80	P + Value + “BTR-ND”	5,000	—	294.00/M	264.60/M	—	ERJ-6RSJxxxV
0805, 1/8 (1/4)* W, 5%	(.22 ~ 9.1Ω)	P + Value + “BCT-ND”	6.33	17.02	39.10	133.40	P + Value + “BTR-ND”	5,000	—	126.00/M	113.40/M	—	ERJ-6RQJxxxV
0805, 1/8 (1/4)* W, 1%	(.22 ~ 9.1Ω)	P + Value + “DCT-ND”	4.26	15.09	49.70	205.90	P + Value + “DTR-ND”	5,000	—	74.40/M	62.00/M	—	ERJ-6RQFxxxV
1206, 1/4 (1/3)* W, 5%	(.1 ~ .18Ω)	P + Value + “PCT-ND”	12.51	33.67	77.35	263.90	P + Value + “PTR-ND”	5,000	—	261.00/M	234.90/M	—	ERJ-8RSJxxxV
1206, 1/4 (1/3)* W, 5%	(.22 ~ 9.1Ω)	P + Value + “PCT-ND”	5.64	15.17	34.85	118.90	P + Value + “PTR-ND”	5,000	—	111.00/M	99.90/M	—	ERJ-8RQJxxxV
1206, 1/4 (1/3)* W, 1%	(.22 ~ 9.1Ω)	P + Value + “RCT-ND”	3.90	13.81	45.50	188.50	P + Value + “RTR-ND”	5,000	—	98.40/M	82.00/M	—	ERJ-8RQFxxxV
1210, 1/4 (1/2)* W, 5%	(.1 ~ .18Ω)	P + Value + “SCT-ND”	5.52	19.55	64.40	266.80	P + Value + “STR-ND”	5,000	—	211.20/M	176.00/M	—	ERJ-14RSJxxxU
1210, 1/4 (1/2)* W, 5%	(.22 ~ 9.1Ω)	P + Value + “SCT-ND”	3.42	12.11	39.90	165.30	P + Value + “STR-ND”	5,000	—	127.20/M	106.00/M	—	ERJ-14RQJxxxU
2010, 1/2 (1/2)* W, 5%	(.22 ~ 1.0Ω)	P + Value + “AFCT-ND”	6.48	22.95	75.60	313.20	P + Value + “AFTR-ND”	5,000	—	214.80/M	179.00/M	—	ERJ-12ZQJxxxU
2512, 1 W, 5%	(.1 ~ .18Ω)	PT + Value + “UCT-ND”	10.68	43.39	154.86	694.20	PT + Value + “UTR-ND”	4,000	591.75/M	—	—	499.70/M	ERJ-1TRSJxxxU
2512, 1 W, 5%	(.22 ~ 9.1Ω)	PT + Value + “UCT-ND”	8.64	30.60	100.80	417.60	PT + Value + “UTR-ND”	4,000	336.00/M	—	—	280.00/M	ERJ-1TRQJxxxU

* Available for reduction of load pulse characteristic (RSWV x 2.0)

Panasonic® SMD Thick Film Chip Resistors / Low Resistance Type

1210, 1812, 2010, 2512 — For Current Sensing Applications

Features:

Operating Temperature:

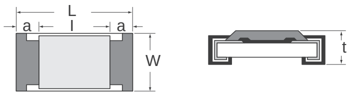
- -55°C to 125°C
  (derating required above 70°C)

Resistance Range:

- 1.0-100mΩ

Temperature Coefficient:

- **1210 and 1812 Package:**
  20-46mΩ ±300ppm, 47-100mΩ ±100ppm
- **2010 Package:**
  40-46mΩ ±300ppm, 47-100mΩ ±100ppm
- **2512 Package:**
  ±100ppm >5mΩ, ±350ppm <5mΩ



Package	Dimensions (mm) L	W	a	t	l
1210	3.20	2.50	0.50	0.60	2.20
1812	4.50	3.20	0.50	0.60	3.50
2010	5.00	2.50	0.60	0.60	3.80
2512 (S Type)	6.40	3.20	1.00	0.80	4.40
2512 (T Type)	6.40	3.20	2.10	0.80	2.20
2512 (L Type)	6.40	3.20	0.65	1.10	5.10

Standard Resistor Values (mΩ)
for 1210, 1812, 2010
See below for complete part numbers when ordering.

20	22	25†	33	39	47	50	75†	100

† Panasonic part number is ERJ-LxxUFxxxU

Standard Resistor Values (mΩ)
for 2512
See below for complete part numbers when ordering.

1.0*	2.0*	4.0	8.0	12	16	47*	100
1.5*	3.0	5.0	10	15	20	50	

* Not available in 1% tolerance

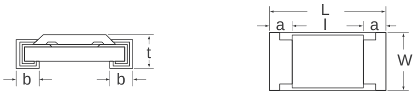
Description	Value Range (mΩ)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
1210, 1/4 W, 1%	20 ~ 100	P + Value + “NACT-ND”	5.34	18.91	62.30	P + Value + “NATR-ND”	5,000	204.00/M	ERJ-L14KFXXXU
1812, 1/2 W, 1%	20 ~ 100	P + Value + “NBCT-ND”	6.96	28.28	100.92	P + Value + “NBTR-ND”	5,000	382.50/M	ERJ-L12KFXXXU
2010, 1/2 W, 1%	47 ~ 100	P + Value + “NCCT-ND”	6.96	28.28	100.92	P + Value + “NCTR-ND”	5,000	382.50/M	ERJ-L1DKFXXXU
2512, 1 W, 5%	1.0 ~ 1.5	P + Value + “TCT-ND”	11.72	47.59	169.87	P + Value + "TTR-ND"	3,000	427.50/M	ERJ-M1WTJXXXU
	2.0	P + Value + “TCT-ND”	11.91	48.41	172.77	P + Value + “TTR-ND”	3,000	427.50/M	ERJ-M1WTJXXXU
	3.0 ~ 20	P + Value + “TCT-ND”	10.86	44.12	157.46	P + Value + “TTR-ND”	3,000	427.50/M	ERJ-M1WSJXXXU
	47 ~ 100	P + Value + “TCT-ND”	7.88	32.01	114.26	P + Value + “TTR-ND”	3,000	434.25/M	ERJ-L1WKJXXXU
2512, 1 W, 1%	3.0 ~ 20	P + Value + “MCT-ND”	10.66	43.31	154.61	P + Value + “MTR-ND”	3,000	450.00/M	ERJ-M1WSFXXXU
	50 ~ 100	P + Value + “MCT-ND”	9.40	38.19	136.30	P + Value + “MTR-ND”	3,000	519.75/M	ERJ-L1WKFXXXU

Panasonic® Anti-Surge Thick Film Chip Resistors

Features:

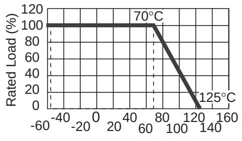
- Improved Anti-Surge characteristics compared to metal film resistors
- Metal glaze thick film resistive element and three layers of electrodes results in high reliability
- Suitable for both reflow soldering and flow soldering
- Thick film resistor with excellent Anti-Pulse characteristic and high rated power

Operating Temperature: -55°C to 125°C



Type	Dimensions (mm) L	W	a	b	t	l
0805	2.00	1.25	0.25	0.40	0.60	1.50
1206	3.20	1.60	0.40	0.50	0.60	2.24

Power Derating Curve



Ambient Temperature (°C)

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Max. RCWV)[1] (V)	Maximum Overload Voltage[2] (V)	Resistance Tolerance (%)	Resistance Range (Ω) min.	max.	TCR x10-6 °C (ppm/°C)	Standard Resistance Values
ERJP06	0.125	150	200	±5	10 33	30 1M	±300 ±200	E24 (3 digits)
ERJP08	0.25	200	400	±5	10	1M	±200	E24 (3 digits)

(1) Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Values}}$, or Limiting Element Voltage (max. RCWV) listed above, whichever is less.
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or max. Overload Voltage listed above whichever is less.

Standard Resistor Values
See below for complete part numbers when ordering.

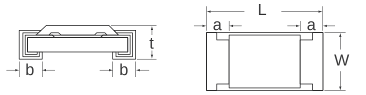
10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K
11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M
12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	
13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	
15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	
16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	
18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
0805, 1/8 W, 5%	10 ~ 1M	P + Value + “ADCT-ND”	1.65	4.93	11.60	34.80	P + Value + “ADTR-ND”	26.60/M	22.80/M	20.90/M	19.00/M	ERJ-P06JXXXV
1206, 1/4 W, 5%	10 ~ 1M	P + Value + “ALCT-ND”	2.01	5.99	14.10	42.30	P + Value + “ALTR-ND”	35.35/M	30.30/M	27.78/M	25.25/M	ERJ-P08JXXXV

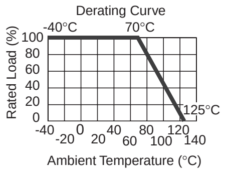
Panasonic® Metal Film Thermosensitive Chip Resistors

Features:

- Recommended for temperature correction circuits
- Temperature coefficient value 1000 x 10^{-6}/°C (ppm/°C) to 4700 x 10^{-6}/°C (ppm/°C)
- Quick response to temperature change
- Excellent linear resistance value change in wide temperature range (-40°C to +125°C)
- High reliability, high density placing
- Suitable for both reflow soldering and flow soldering



Type	Dimensions (mm) L	W	a	b	t
0402	1.00	0.50	0.15	0.25	0.35
0603	1.60	0.80	0.30	0.30	0.45
0805	2.00	1.25	0.40	0.40	0.50



Standard Resistor Values (Ω)

See below for complete part numbers when ordering.

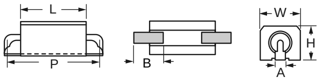
5.6
6.8
8.2
10
12
15
18
22
27
33
39
47
56
68
82
100
120
150
180
220
270
330
390
470
560
680
820
1.0K
1.2K
1.5K
1.8K
2.2K
2.7K
3.3K
3.9K
4.7K
5.6K
6.8K
8.2K
10K

Description	TCR (ppm/°C)	Value Range (Ω)	TCR Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	25,000	30,000	Panasonic Part No.
0402, 1/32 W, 5%	+2700	47 ~ 1.0K	—	P + Value + "CLCT-ND"	4.12	14.60	48.09	P + Value + "CLTR-ND"	—	97.05/M	—	90.58/M	ERA-W27JXXXX
	+3300	22 ~ 390	—	P + Value + "CMCT-ND"	4.12	14.60	48.09	P + Value + "CMTR-ND"	—	97.05/M	—	90.58/M	ERA-W33JXXXX
0603, 1/16 W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P + Value + "CFCT-ND"	5.52	19.55	64.40	P + Value + "CFTR-ND"	146.08/M	132.00/M	123.20/M	—	ERA-V15JXXXV
	+2700	47 ~ 3.3K	±10%	P + Value + "CGCT-ND"	5.52	19.55	64.40	P + Value + "CGTR-ND"	146.08/M	132.00/M	123.20/M	—	ERA-V27JXXXV
	+3300	22 ~ 1.2K	±10%	P + Value + "CHCT-ND"	5.52	19.55	64.40	P + Value + "CHTR-ND"	146.08/M	132.00/M	123.20/M	—	ERA-V33JXXXV
	+3900	5.6 ~ 390	±10%	P + Value + "CJCT-ND"	5.52	19.55	64.40	P + Value + "CJTR-ND"	146.08/M	132.00/M	123.20/M	—	ERA-V39JXXXV
0805, 1/10 W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P + Value + "CBCT-ND"	5.52	19.55	64.40	P + Value + "CBTR-ND"	146.08/M	132.00/M	123.20/M	—	ERA-S15JXXXV
	+2700	47 ~ 4.7K	±10%	P + Value + "CCCT-ND"	5.52	19.55	64.40	P + Value + "CCTR-ND"	146.08/M	132.00/M	123.20/M	—	ERA-S27JXXXV
	+3300	22 ~ 1.8K	±10%	P + Value + "CDCT-ND"	5.52	19.55	64.40	P + Value + "CDTR-ND"	146.08/M	132.00/M	123.20/M	—	ERA-S33JXXXV
	+3900	5.6 ~ 470	±10%	P + Value + "CECT-ND"	5.52	19.55	64.40	P + Value + "CETR-ND"	146.08/M	132.00/M	123.20/M	—	ERA-S39JXXXV

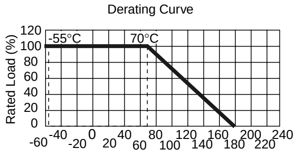
Panasonic® 1 & 2 Watt — 5% SMD Metal Film Fixed Resistors

Features:

- Non-flammable nature
- High reliability
- Approved under the ISO 9001 system



Type	Dimensions (mm) P	L	W	H	A	B
1 Watt	12.5	9.0	5.6	5.0	1.5	3.0
2 Watt	15.0	12.0	6.4	5.8	1.5	4.0



Standard Resistor Values (Ω)

See below for complete part numbers when ordering.

.022
.027
.033
.039
.047
.056
.068
.082
.10
.12
.15
.18
.22
.27
.33
.39
.47
.56
.68
.82
1.0
1.2
1.5
1.8
2.2
2.7
3.3
3.9
4.7
5.6
6.8
8.2

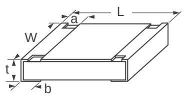
Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Pkg. Size	Tape and Reel Pricing 1,000	2,000	5,000	6,000	Panasonic Part No.
1 Watt, 5%	.022 ~ .082	PRX1W + Value + "CT-ND"	55.99	150.66	346.12	PRX1W + Value + "TR-ND"	2,000	—	806.40/M	—	645.12/M	ERX-1HQJxxMH
	.10 ~ .18	PRX1W + Value + "CT-ND"	38.13	102.59	235.69	PRX1W + Value + "TR-ND"	2,000	—	546.56/M	—	437.25/M	ERX-1HZJxxxH
	.22 ~ 8.2	PRX1W + Value + "CT-ND"	33.66	90.58	208.08	PRX1W + Value + "TR-ND"	2,000	—	481.60/M	—	385.28/M	ERX-1HJxxxH
2 Watt, 5%	.022 ~ .082	PRX2W + Value + "CT-ND"	59.84	161.02	369.92	PRX2W + Value + "TR-ND"	1,000	862.40	—	689.92/M	—	ERX-2HQJxxMH
	.10 ~ .18	PRX2W + Value + "CT-ND"	43.67	117.51	269.96	PRX2W + Value + "TR-ND"	1,000	627.20	—	501.76/M	—	ERX-2HZJxxxH
	.22 ~ 8.2	PRX2W + Value + "CT-ND"	38.13	102.59	235.69	PRX2W + Value + "TR-ND"	1,000	546.56	—	437.25/M	—	ERX-2HJxxxH

Panasonic® ERA 0603/0805 .1% Metal Film Chip Resistors

Surface Mount — Available In 1/16 and 1/10 Watt

Features:

- High reliability
- Low TCR and current noise
- Excellent non-linearity



Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions (mm) L	W	t	a	b	Temperature Coefficient	Panasonic Part No.
0603	1/16 Watt	75V	150V	1.60	0.80	0.45	0.30	0.30	±25ppm / °C	ERA-3YE
0805	1/10 Watt	100V	200V	2.00	1.25	0.50	0.40	0.40	±25ppm / °C	ERA-6YE

Standard Resistor Values

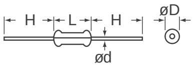
See below for complete part numbers when ordering.

100
110
120
130
150
160
180
200
220
240
270
300
330
360
390
430
470
510
560
620
680
750
820
910
1.0K
1.1K
1.2K
1.3K
1.5K
1.6K
1.8K
2.0K
2.2K
2.4K
2.7K
3.0K
3.3K
3.6K
3.9K
4.3K
4.7K
5.1K
5.6K
6.2K
6.8K
7.5K
8.2K
9.1K
10K
11K
12K
13K
15K
16K
18K
20K
22K
24K
27K
30K
33K
36K
39K
43K
47K
51K
56K
62K
68K
75K
82K
91K
100K

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
0603, 1/16 W, .1%	100 ~ 33K	P+ Value + "YCT-ND"	6.84	24.23	79.80	330.60	P + Value + "YTR-ND"	5,000	157.70/M	142.50/M	133.00/M	128.25/M	ERA-3YEBxxxV
0805, 1/10 W, .1%	100 ~ 100K	P+ Value + "ZCT-ND"	6.84	24.22	79.80	330.60	P + Value + "ZTR-ND"	5,000	166.00/M	150.00/M	140.00/M	135.00/M	ERA-6YEBxxxV

Panasonic® 5 % Miniature Carbon Film Resistors

Features:
- High reliability using carbon film
- 52mm Axial taping style for automatic inserting machine
- 4 color code marking
- Uses UL 94 V-0 approved coating for flame retardant type
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2
- Miniaturized version

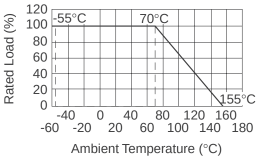


Type	Dimensions (mm) L	D	d	H	Mass (mg)
1/4W, 5%	3.20	1.70	0.45	20 min.	107
1/2W, 5%	6.35	2.30	0.60	20 min.	228

Type	Power Rating at 70°C (W)	Limiting Element Volt. (Max. RCWV)[1] (V)	Max. Overload Volt.[2] (V)	Max. Intermittent Overload Volt.[3] (V)	Dielectric Withstanding Voltage (VAC)	Standard Resistance Value	Resistance Tolerance (%)	Resistance Range (Ω) min.	max.
ERDS2T	0.25	250	500	750	300	E24	±5 (J)	1	2.2M
ERDS1T	0.5	300	600	750	500	E24	±5 (J)	1	3.3M

(1) Rated Voltage = √Power Rating x Resistance Value or Limiting Element Voltage (max. RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or max. Overload Voltage listed above whichever is less.
(3) Intermittent Overload Test Voltage (IOTV) shall be determined from IOTV = 4 x Power Rating (IOTV = 3 x Power Rating for ERDS2 type) or max. Intermittent Overload Voltage listed above whichever is less.

Power Derating Curve



Standard Resistor Values
See below for complete part numbers when ordering.

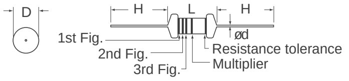
0.0‡	2.0	4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K	2.0M
1.0	2.2	4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M	2.2M
1.1	2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	1.1M	2.4M*
1.2	2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	1.2M	2.7M*
1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	1.3M	3.0M*
1.5	3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	1.5M	3.3M*
1.6	3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	1.6M	
1.8	3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	1.8M	

* Only available in 1/2 Watt ‡ Not available in 1/2 Watt

Description	Value Range (Ω)	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Box Pricing 2,000	5,000	6,000	10,000	Panasonic Part No.
ERDS2T 1/4W, 5%	0.0-2.2M	P + Value + “BACT-ND”	.67	2.14	4.88	15.86	P + Value + “BATB-ND”	5,000	—	6.83/M	—	6.30/M	ERD-S2TJXXXV
ERDS1T 1/2W, 5%	1.0-3.3M	P + Value + “BBCT-ND”	.95	3.03	6.92	22.49	P + Value + “BBTB-ND”	2,000	15.12/M	—	13.95/M	12.79/M	ERD-S1TJXXXV

NEW! Panasonic® 1 % Miniature Metal Film Resistors

Features:
- Low T.C.R., low noise, high reliability
- Taping style for automatic inserting machine
- 5 color code marking
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2

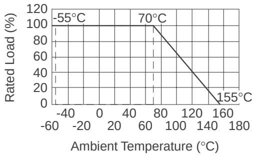


Type	Power Rating at 70°C (W)	Limiting Element Volt. (Max. RCWV)[1] (V)	Max. Overload Volt.[2] (V)	Dielectric Withstanding Voltage (V)	T.C.R. $x10^{-6}$/°C (ppm/°C)	Resistance Tolerance (%)	Resistance Range (Ω) min.	max.	Resis-tance Value
EROS2P	0.25	250	500	300	±50	F(±1)	2	1M	E24

Type	Dimensions (mm) L	D	d	H	Mass (mg)
1/4W, 1%	3.20	1.70	0.45	30 min.	107

(1) Rated Voltage = √Power Rating x Resistance Value or Limiting Element Voltage (max. RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or max. Overload Voltage listed above whichever is less.

Power Derating Curve



Standard Resistor Values
See below for complete part numbers when ordering.

10.0	20.0	39.0	75.0	150	300	560	1.10K	2.20K	4.30K	8.20K	16.0K	33.0K	62.0K	120K	240K	470K	910K
11.0	22.0	43.0	82.0	160	330	620	1.20K	2.40K	4.70K	9.10K	18.0K	36.0K	68.0K	130K	270K	510K	1.00M
12.0	24.0	47.0	91.0	180	360	680	1.30K	2.70K	5.10K	10.0K	20.0K	39.0K	75.0K	150K	300K	560K	
13.0	27.0	51.0	100	200	390	750	1.50K	3.00K	5.60K	11.0K	22.0K	43.0K	82.0K	160K	330K	620K	
15.0	30.0	56.0	110	220	430	820	1.60K	3.30K	6.20K	12.0K	24.0K	47.0K	91.0K	180K	360K	680K	
16.0	33.0	62.0	120	240	470	910	1.80K	3.60K	6.80K	13.0K	27.0K	51.0K	100K	200K	390K	750K	
18.0	36.0	68.0	130	270	510	1.00K	2.00K	3.90K	7.50K	15.0K	30.0K	56.0K	110K	220K	430K	820K	

Description	Value Range (Ω)	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Box Pricing 5,000	10,000	50,000	100,000	Panasonic Part No.
EROS2P 1/4W, 1%	10.0-1.0M	P + Value + “CACT-ND”	1.66	4.81	12.69	32.81	P + Value + “CATB-ND”	5,000	17.82/M	15.20/M	12.35/M	10.45/M	ERO-S2PHFXXXV

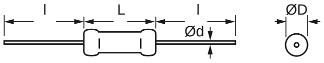
Panasonic® 5 % Metal Oxide Film Resistors

Now Available In Tape and Reel

Matsushita fixed metal oxide film resistors feature small sized dimensions and have higher power rating at the same size as the conventional type.

Features:
Flame retardancy of the exclusively formulated inorganic insulative material exhibits an equivalent performance requirements of UL-94 (VE-O) and when operated at a potential less than 16 times RCWV, Matsushita metal (oxide) film resistors never flame nor arc.

The coating and markings resist normal washing of solvents, such as Freon (TE, TMC, TF), trichloroethane.



Type	Maximum Working Voltage	Dimensions (mm) L	l	D	d
1W	350	9.0	30.0	2.8	0.65
2W	350	12.0	30.0	4.0	0.80
3W	350	15.0	38.0	5.5	0.80

Characteristics:

Temperature Coefficient	R. Wattage of 1, 2, 3 ±350ppm/°C
Voltage Coefficient	25ppm/V Max.
Insulation Resist.	10,000 MΩ Min.
Temperature Cycling	±(1% + 0.05Ω) Max.
Short-time Overload	±(2% + 0.05Ω) Max.
Humidity (Steady State)	±(2% + 0.05Ω) Max.
Load Life in Humidity	±(5% + 0.05Ω) Max.
Load Life	±(5% + 0.05Ω) Max.
Resistance to Soldering Heat	±(1% + 0.05Ω) Max.
Vibration Low Frequency	±(1% + 0.05Ω) Max.
Thermal Shock	±(2% + 0.05Ω) Max.
Noise	1.0µV/V Max.

Standard Resistor Values
See below for complete part numbers when ordering.

0.47	0.82	1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K
0.51	0.91	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K
0.56	1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K
0.62	1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	
0.68	1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	
0.75	1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	

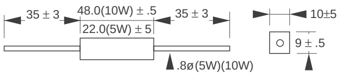
Description	Digi-Key Part No.	Pricing 1	5	100	1M	5M	10M
1 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-68KΩ)	“P” + Value + “W-1BK-ND” (i.e., P20W-1BK-ND)	.23	.86	9.78	67.42	60.04/M	53.94/M
1 Watt, 5% Metal Oxide Film Resistors Tape and Reel (0.47-68KΩ)	“P” + Value + “W-1TR-ND” (i.e., P1.0KW-1TR-ND)	—	—	—	—	64.95/M	58.36/M
2 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-100KΩ)	“P” + Value + “W-2BK-ND” (i.e., P20W-2BK-ND)	.28	1.03	13.26	81.18	72.24/M	64.80/M
2 Watt, 5% Metal Oxide Film Resistors Tape and Reel (0.47-100KΩ)	“P” + Value + “W-2TR-ND” (i.e., P1.0KW-2TR-ND)		283.22/3M	504.35/6M	906.29/12M	1762.34/27M	
3 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-100KΩ)	“P” + Value + “W-3BK-ND” (i.e., P20W-3BK-ND)	.51	2.38	30.54	183.25	176.47/M	169.68/M
3 Watt, 5% Metal Oxide Film Resistors Tape and Reel (0.47-100KΩ)	“P” + Value + “W-3TR-ND” (i.e., P1.0KW-3TR-ND)		315.51/1,500	1123.69/6M	1766.83/10,500	3708.39/25,500	

YAGEO 5 and 10 Watt Wirewound Rectangular Resistors 5%

Axial Lead Type

- **Operating Temperature Range: −55° to +250°C**

• Exceptionally small and sturdy; mechanically safe. Excellent electrical characteristics. • The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test. • Applicable specifications: EIA RS-344 and EIA RC649.



5 Watt Standard Resistor Values — See below for complete part numbers when ordering.

0.30	0.62	1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K
0.33	0.68	1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K
0.39	0.75	1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K
0.43	0.82	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K
0.47	0.91	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K
0.51	1.0	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K
0.56	1.1													

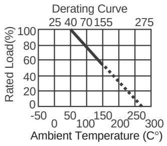
10 Watt Standard Resistor Values — See below for complete part numbers when ordering.

1.0	1.8	3.3	5.6	10	18	33	56	100	180	300	470	750	1.2K	2.0K
1.1	2.0	3.6	6.2	11	20	36	62	110	200	330	510	820	1.3K	2.2K
1.2	2.2	3.9	6.8	12	22	39	68	120	220	360	560	910	1.5K	2.4K
1.3	2.4	4.3	7.5	13	24	43	75	130	240	390	620	1.0K	1.6K	2.7K
1.5	2.7	4.7	8.2	15	27	47	82	150	270	430	680	1.1K	1.8K	3.0K
1.6	3.0	5.1	9.1	16	30	51	91	160						

Description	Digi-Key Part Number	Pricing 1	10	100	1M	5M	10M
5 Watt, 5% Metal Wirewound Rectangular Resistors, Bulk Package	Value + "W-5-ND" (i.e. 0.30W-5-ND)	.41	3.41	27.28	163.68	146.63/M	129.58/M
10 Watt, 5% Wirewound Rectangular Resistors, Bulk Package	Value + "W-10-ND" (i.e. 1.0W-10-ND)	.60	5.01	40.08	240.48	215.43/M	190.38/M

Characteristics

Temperature Coefficient	±300 PPM/°C
Insulation Resistance	100 MΩ
Load Life (1,000 hours)	±5% + 0.05Ω
Short-Time Overload	±2% + 0.05Ω
Dielectric Withstanding Volt	±2% + 0.05Ω
Moisture Resistance	±5% + 0.05Ω
Shock and Vibration	±1% + 0.05Ω
Effect of Soldering	±2% + 0.05Ω



Digi-Key® 5 Watt Resistor Assortment Kit

RS105-ND 0.30Ω-0.91Ω — 5 each 60 Resistors **$23.95**

RS205-ND 1.0Ω-9.1Ω — 4 each 96 Resistors **$32.95**

RS305-ND 10Ω-91Ω — 4 each 96 Resistors **$32.95**

RS405-ND 100Ω-2.0KΩ — 3 each 96 Resistors **$32.95**

Digi-Key® 10 Watt Resistor Assortment Kit

2 each of all 10 watt standard resistor values listed above. A total of 168 resistors.

RS110-ND **$72.95**

YAGEO Zerohm Jumper Wires

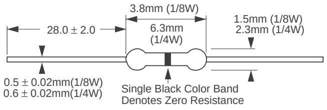
Applications:

Generally they are used for the following reasons:

- Inability to connect two points on a P.C. Board due to other circuit paths which must be crossed over.
- An After-the-Fact design change that requires new point connections.
- Circuit tuning by changing point connections.

Specifications:

Maximum Resistance: 0.004 ohm on 1/8 watt, 0.003 ohm on 1/4 watt; Typical Resistance: 0.002 ohm on both; Lead Material: tin-plated copper; Body Material: electrical grade, high performance molding compound; Min. Insulation Resistance — Dry: 10,000 megΩ, Wet: 100 megΩ; Min. Dielectric Withstanding Voltage — Atmospheric: 500V RMS, Reduced: 325V RMS; Insulation Flammability: resistor-insulation is self extinguishing within 10 seconds after externally applied flame is removed; Current Rating: 25 Amps at 25°C, derating to 0 amps at 150°C.



Description	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M
1/8 Watt, Zerohm Jumper, Bulk Package	0.0EBK-ND	.26	8.11	16.28	14.93/M	13.52/M	12.48/M
1/8 Watt, Zerohm Jumper, Tape/Reel (5M Pcs./Reel)	0.0ETR-ND	—	—	—	18.37/M	17.29/M	14.14/M
1/4 Watt, Zerohm Jumper, Bulk Package	0.0QBK-ND	.27	4.93	10.03	9.23/M	8.37/M	7.73/M
1/4 Watt, Zerohm Jumper, Tape/Reel (5M Pcs./Reel)	0.0QTR-ND	—	—	—	11.53/M	10.85/M	8.90/M

YAGEO 5% Carbon Film Resistors

Available In 1/8, 1/4 and 1/2 Watt

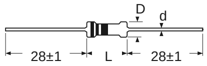
Standard Resistor Values
See below for complete part numbers when ordering.

1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M	10M
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M	
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M	
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	1.3M	2.4M	4.3M	7.5M	
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	1.5M	2.7M	4.7M	8.2M	
1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K	1.6M	3.0M	5.1M	9.1M	

Characteristics

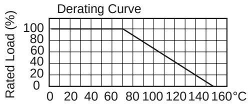
Terminal Strength	Soldering	Temperature Change	Vibration	Moisture Resistance	Load Life	Dielectric Strength	Insulation Resistance	Short-Time Overload	Voltage Coefficient	Solvents Resistance
0.6mm load 10N (1kg): 10s Δ Rmax. 0.25% + 0.05Ω	2s 230°C 0.5% activated flux Δ Rmax. 0.25% + 0.25Ω	½ hr. @ −55°C, ½ hr. @ +155°C 5 cycles; Δ Rmax. 0.25% + 0.25Ω	1.5mm displacement @ 10 to 500 Hz; Δ Rmax. 0.25% + 0.05Ω	Δ Rmax. ±3%	Δ Rmax. ±2.5%	1000 hrs.: 70°C: Pnom or Vmax. Δ Rmax. 1% + 0.05Ω	500Vrms appl. for 1 min.: No breakdown	Room temp., dissipation 6.25× Pnom. 10 cycles, 5 sec. on, 45 sec. off; Δ Rmax. 0.25% +0.05Ω	5 ppm	No damage

CFR Series



Features

- Industry's lowest cost!
- Available in 1/8, 1/4, 1/2 watt; packaged in bulk or tape/reel (except 1/2 watt)
- Exceeds carbon comp MIL-R-11 performance
- Standard tolerance: ±65%
- Exceptional long-term stability



General Specifications

Type (Power Rating)	Dimensions (mm) L	D	d	Max. Working Voltage	Max. Overload Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
1/8 Watt *	3.3 ± 0.4	1.8 ± 0.3	0.5 ± 0.05	200V	400V	70°C	−55°C to +155°C	1.0Ω to 10 MΩ	±5%
1/4 Watt	6.3 ± 0.5	2.3 ± 0.3	0.6 ± 0.05	250V	500V	70°C	−55°C to +155°C	1.0Ω to 10MΩ	±5%
1/2 Watt	9.0 ± 0.5	3.2 ± 0.5	0.6 ± 0.05	350V	700V	70°C	−55°C to +155°C	1.0Ω to 10MΩ	±5%

Description	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M
1/8 **Watt, 5% Carbon Film Resistors (* Power rating at 70°C = 1/6W)** Bulk Package	(Value)EBK-ND (i.e. 1.0EBK-ND)	.28	4.70	13.63	12.22/M	11.28/M	10.34/M
1/8 **Watt, 5% Carbon Film Resistors — Tape and Reel (* Power rating at 70°C = 1/6W)** (5,000 pcs./reel — Order in multiples of 5,000)	(Value)ETR-ND (i.e. 1.0ETR-ND)	—	—	—	14.95/M	13.80/M	11.04/M
1/4 **Watt, 5% Carbon Film Resistors** Bulk Package	(Value)QBK-ND (i.e. 1.0QBK-ND)	.28	3.89	8.70	8.27/M	7.69/M	6.24/M
1/4 **Watt, 5% Carbon Film Resistors — Tape and Reel** (5,000 pcs./reel — Order in multiples of 5,000)	(Value)QTR-ND (i.e. 1.0QTR-ND)	—	—	—	8.94/M	8.25/M	6.60/M
1/2 **Watt, 5% Carbon Film Resistors** Bulk Package	(Value)H-ND (i.e. 1.0H-ND)	.27	3.96	12.87	11.88/M	10.89/M	9.90/M

"E" = Eighth Watt; "Q" = Quarter Watt; "H" = Half Watt. Please be sure to specify. Half watt available in bulk package only.

Digi-Key® 1/8 Watt Resistor Assortment

RSE200-ND 200 each of all std. values 5% 1/8 watt carbon film resistors in the series 1.0 - 10 megohms (33,800 total pcs.)............... **$409.00**

RS112-ND Set of 5 each of 73 standard 5% 1/8 watt carbon film resistors in the series 1.0, 1.2, 1.5, 1.8, 2.2, etc., through 1.0 megohm (365 total pieces) **$16.96**

RS212-ND Set of 5 each of the 72 standard 5% 1/8 watt carbon film resistors in the series 1.1, 1.3, 1.6, 2.0, 2.4, etc., through 910 kilohm (360 total pieces) **$16.99**

Digi-Key® 1/4 Watt Resistor Assortment

RSQ200-ND 200 each of all std. values 5% 1/4 watt carbon film resistors in the series 1.0 - 10 megohms (33,800 total pcs.) **$239.00**

RS125-ND Set of 5 each of 73 standard 5% 1/4 watt carbon film resistors in the series 1.0, 1.2, 1.5, 1.8, 2.2, etc., through 1.0 megohm (365 total pieces).................................. **$14.95**

RS225-ND Set of 5 each of the 72 standard 5% 1/4 watt carbon film resistors in the series 1.1, 1.3, 1.6, 2.0, 2.4, etc., through 910 kilohm (360 total pieces).. **$14.95**

Digi-Key® 1/2 Watt Resistor Assortment

RSH200-ND 200 each of all std. values 5% 1/2 watt carbon film resistors in the series 1.0 - 10 megohms (33,800 total pcs.)........ **$335.00**

RS150-ND Set of 5 each of 73 standard 5% 1/2 watt carbon film resistors in the series 1.0, 1.2, 1.5, 1.8, 2.2, etc., through 1.0 megohm (365 total pieces).. **$16.95**

RS250-ND Set of 5 each of the 72 standard 5% 1/2 watt carbon film resistors in the series 1.1, 1.3, 1.6, 2.0, 2.4, etc., through 910 kilohm (360 total pieces **$16.95**

YAGEO 1% Metal Film Fixed Resistors 1/4 Watt

MFR Series

The MFR series Metal Film Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals and passivative materials onto a carefully treated high grade ceramic substrate, the resistors are coated with layers of light-blue lacquer.

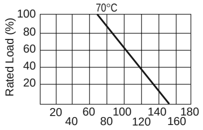
General Specifications:

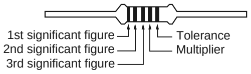
Power Rating: 1/4 Watt. **Max. Working Voltage:** 250V. **Max. Overload Voltage:** 500V. **Rated Ambient Temperature:** 70°C. **Temperature Cycling:** –65°C to +150°C. **Resistance Range:** 10.0Ω to 1.00MΩ. **Resistance Tolerance:** ±1%.

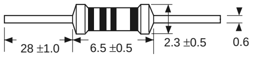
Electrical Specifications:

All measurements are taken at +25°C at 1KHz and 65% relative humidity, unless stated otherwise. **Type:** MF-25 **Style:** RN-55 **Power Rating:** 1/4 Watt **Resistance Tolerance:** ±1% **Temperature Coefficient:** ±100PPM/°C

Power Derating Curve







Characteristics

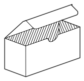
Temperature Cycling, -65°C to +150°C	(%)	±0.25
Low Temperature Operation, -65°C	(%)	±0.25
Short Time Overload	(%)	±0.20
Terminal Strength, 5 lb. pull	(%)	±0.20
Resistance to Soldering Heat, +350°C	(%)	±0.10
Moisture Resistance, Mil Std 202	(%)	±0.50
Life 1000 hrs. (Rated Power)	(%)	±0.50
Shock, 50G, 11ms	(%)	±0.20
Vibration-High Frequency, 10-2000Hz	(%)	±0.20
Insulation Resistance	(%)	=10^{10}Ω
Failure-Rate	(%)	10^{-8}/h

1% Metal Film Resistors

Digi-Key® Assortment Kits

35% SAVINGS

Over Parts Purchased Separately



5 Each of Values 10Ω to 97.6Ω
RS1X-ND.................... **$29.95**

5 Each of Values 100Ω to 976Ω
RS2X-ND.................... **$29.95**

5 Each of Values 1.00KΩ to 9.76KΩ
RS3X-ND.................... **$29.95**

5 Each of Values 10.0KΩ to 97.6KΩ
RS4X-ND.................... **$29.95**

5 Each of Values 100KΩ to 1.00MΩ
RS5X-ND.................... **$29.95**

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M	100M	500M	1,000M
1/4 Watt, 1% Metal Film Resistors Bulk Package	10.0 ~ 1.00M Ω 10.0 ~ 1.0M Ω	Value + "X" +"BK-ND" (i.e. 10.0XBK-ND)	.54	8.27	21.38	18.24/M	15.68/M	12.54/M	—	—	—
1/4 Watt, 1% Metal Film Resistors Order in multiples of 5,000 (5,000 pcs./reel)	10.0 ~ 1.00M Ω 10.0 ~ 1.00M Ω	Value + "X" + "TR-ND" (i.e. 10.0XTR-ND)	—	—	—	20.63/M	17.60/M	14.30/M	12.10/M	9.90/M	8.80/M

YAGEO Standard Resistor Values

10.0	18.7	34.8	64.9	121	226	422	787	1.47K	2.74K	5.11K	9.53K	17.8K	33.2K	61.9K	115K	215K	402K	750K
10.2	19.1	35.7	66.5	124	232	432	806	1.50K	2.80K	5.23K	9.76K	18.2K	34.0K	63.4K	118K	221K	412K	768K
10.5	19.6	36.5	68.1	127	237	442	825	1.54K	2.87K	5.36K	10.0K	18.7K	34.8K	64.9K	121K	226K	422K	787K
10.7	20.0	37.4	69.8	130	243	453	845	1.58K	2.94K	5.49K	10.2K	19.1K	35.7K	66.5K	124K	232K	432K	806K
11.0	20.5	38.3	71.5	133	249	464	866	1.62K	3.01K	5.62K	10.5K	19.6K	36.5K	68.1K	127K	237K	442K	825K
11.3	21.0	39.2	73.2	137	255	475	887	1.65K	3.09K	5.76K	10.7K	20.0K	37.4K	69.8K	130K	243K	453K	845K
11.5	21.5	40.2	75.0	140	261	487	909	1.69K	3.16K	5.90K	11.0K	20.5K	38.3K	71.5K	133K	249K	464K	866K
11.8	22.1	41.2	76.8	143	267	499	931	1.74K	3.24K	6.04K	11.3K	21.0K	39.2K	73.2K	137K	255K	475K	887K
12.1	22.6	42.2	78.7	147	274	511	953	1.78K	3.32K	6.19K	11.5K	21.5K	40.2K	75.0K	140K	261K	487K	909K
12.4	23.2	43.2	80.6	150	280	523	976	1.82K	3.40K	6.34K	11.8K	22.1K	41.2K	76.8K	143K	267K	499K	931K
12.7	23.7	44.2	82.5	154	287	536	1.00K	1.87K	3.48K	6.49K	12.1K	22.6K	42.2K	78.7K	147K	274K	511K	953K
13.0	24.3	45.3	84.5	158	294	549	1.02K	1.91K	3.57K	6.65K	12.4K	23.2K	43.2K	80.6K	150K	280K	523K	976K
13.3	24.9	46.4	86.6	162	301	562	1.05K	1.96K	3.65K	6.81K	12.7K	23.7K	44.2K	82.5K	154K	287K	536K	1.00M
13.7	25.5	47.5	88.7	165	309	576	1.07K	2.00K	3.74K	6.98K	13.0K	24.3K	45.3K	84.5K	158K	294K	549K	
14.0	26.1	48.7	90.9	169	316	590	1.10K	2.05K	3.83K	7.15K	13.3K	24.9K	46.4K	86.6K	162K	301K	562K	
14.3	26.7	49.9	93.1	174	324	604	1.13K	2.10K	3.92K	7.32K	13.7K	25.5K	47.5K	88.7K	165K	309K	576K	
14.7	27.4	51.1	95.3	178	332	619	1.15K	2.15K	4.02K	7.50K	14.0K	26.1K	48.7K	90.9K	169K	316K	590K	
15.0	28.0	52.3	97.6	182	340	634	1.18K	2.21K	4.12K	7.68K	14.3K	26.7K	49.9K	93.1K	174K	324K	604K	
15.4	28.7	53.6	100	187	348	649	1.21K	2.26K	4.22K	7.87K	14.7K	27.4K	51.1K	95.3K	178K	332K	619K	
15.8	29.4	54.9	102	191	357	665	1.24K	2.32K	4.32K	8.06K	15.0K	28.0K	52.3K	97.6K	182K	340K	634K	
16.2	30.1	56.2	105	196	365	681	1.27K	2.37K	4.42K	8.25K	15.4K	28.7K	53.6K	100K	187K	348K	649K	
16.5	30.9	57.6	107	200	374	698	1.30K	2.43K	4.53K	8.45K	15.8K	29.4K	54.9K	102K	191K	357K	665K	
16.9	31.6	59.0	110	205	383	715	1.33K	2.49K	4.64K	8.66K	16.2K	30.1K	56.2K	105K	196K	365K	681K	
17.4	32.4	60.4	113	210	392	732	1.37K	2.55K	4.75K	8.87K	16.5K	30.9K	57.6K	107K	200K	374K	698K	
17.8	33.2	61.9	115	215	402	750	1.40K	2.61K	4.87K	9.09K	16.9K	31.6K	59.0K	110K	205K	383K	715K	
18.2	34.0	63.4	118	221	412	768	1.43K	2.67K	4.99K	9.31K	17.4K	32.4K	60.4K	113K	210K	392K	732K	

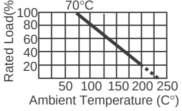
YAGEO 5% Metal Oxide Film Resistors

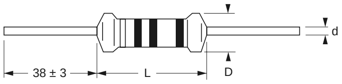
RSF Series

These Metal Oxide Resistors offer lower cost alternatives to Carbon Composition Resistors and General Purpose Metal Films. They can replace many low power General Purpose wirewound applications. These Metal Oxides meet overload tests in accordance with UL specification #1412 without producing a fire hazard. They withstand solvents in accordance with article Mil-Std-202E without producing mechanical or electrical damage.

Features: High surge/overload capability. Non-inductive design. Coating and marking resist Trichlorethelyne, Freon, and other cleaning agents.

Derating Curve





Type	Max. Working Volt.	Dimensions (mm) L	D	d
1W	350	11.5 ± 1.0	4.5 ± 0.5	0.8 ± 0.05
2W	350	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05

Digi-Key® 1 and 2 Watt Resistor Assortment Kits

255 resistors per assortment. 5 each of the values in the ranges listed:

	0.47Ω - 56Ω	62Ω- 7.5KΩ	8.2KΩ - 1.0M	
1 Watt	RS101-ND	RS201-ND	RS301-ND	**$26.95**
2 Watt	RS102-ND	RS202-ND	RS302-ND	**$29.95**

Characteristics:

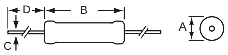
Temperature Coefficient	±100 PPM Typ. ±200 Max
Insulation Resist.	10,000 MΩ Min
Load Life (1,000 hours)	◄1% Typ. ±3% Max
Short-time Overload	±0.5% Max
Temp. Cycling	±0.5% Max
Moisture Resistance	±1.0% Max
Shock & Vibration	±0.2% Max
Effect of Soldering	±0.5% Max
Voltage Coefficient	.001%/V
Current Noise	◄.1µV/V

Standard Resistor Values — See below for complete part numbers when ordering.

0.47	0.82	1.5	2.7	4.3	6.8	11	18	30	47	75	120	200	330	510	820	1.3K	2.2K	3.6K	5.6K	9.1K	15K	24K	39K	62K	100K	160K	270K	430K	680K
0.51	0.91	1.6	3.0	4.7	7.5	12	20	33	51	82	130	220	360	560	910	1.5K	2.4K	3.9K	6.2K	10K	16K	27K	43K	68K	110K	180K	300K	470K	750K
0.56	1.0	1.8	3.3	5.1	8.2	13	22	36	56	91	150	240	390	620	1.0K	1.6K	2.7K	4.3K	6.8K	11K	18K	30K	47K	75K	120K	200K	330K	510K	820K
0.62	1.1	2.0	3.6	5.6	9.1	15	24	39	62	100	160	270	430	680	1.1K	1.8K	3.0K	4.7K	7.5K	12K	20K	33K	51K	82K	130K	220K	360K	560K	910K
0.68	1.2	2.2	3.9	6.2	10	16	27	43	68	110	180	300	470	750	1.2K	2.0K	3.3K	5.1K	8.2K	13K	22K	36K	56K	91K	150K	240K	390K	620K	1.0M
0.75	1.3	2.4																											

Description	Digi-Key Part Number	Pricing 1	10	100	1M	5M	10M
1 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-0.91Ω)	Value + "W-1-ND" (i.e. 0.47W-1-ND)	.27	1.96	12.60	77.00	68.60/M	61.60/M
1 Watt, 5% Metal Oxide Film Resistors Bulk Package (1.0-1.0MΩ)	Value + "W-1-ND" (i.e. 1.0W-1-ND)	.19	1.40	9.00	55.00	49.00/M	44.00/M
2 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-0.91Ω)	Value + "W-2-ND" (i.e. 0.47W-2-ND)	.29	2.10	13.50	82.50	73.50/M	66.00/M
2 Watt, 5% Metal Oxide Film Resistors Bulk Package (1.0-1.0MΩ)	Value + "W-2-ND (i.e. 1.0W-2-ND)	.23	1.68	10.80	66.00	58.80/M	52.80/M

Silicone Coated Wirewound Resistors – 1, 3, 5 Watt, 1%



Series	A ±.81mm	B ±.81mm	C	D
ALSR-1	2.79	9.78	.51	38.10
ALSR-3	5.08	13.46	.81	38.10
ALSR-5	7.92	23.80	.81	38.10

Electrical Specifications

Series	ALSR-1	ALSR-3, ALSR-5
Resistance Tolerance	±1%	±1%
Dielectric Withstanding Voltage	500 VAC	1000 VAC
Short Time Overload	5 X rated wattage for 5 seconds	

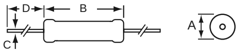
RESISTANCE VALUE CHART

.10	.50	5.0	22	40	100	225	400	750	1.5K	3.5K	6.8K	20.0K
.13	.75	7.5	25	47	120	250	470	800	1.8K	3.9K	7.5K	25.0K
.15	1.0	10	27	50	125	270	500	820	2.0K	4.0K	8.0K	
.20	1.5	12	30	56	150	300	560	900	2.2K	4.7K	8.2K	
.25	2.0	15	33	68	180	330	600	1.0K	2.5K	5.0K	10.0K	
.30	3.0	18	35	75	200	350	680	1.1K	2.7K	5.6K	12.5K	
.33	4.0	20	39	82	220	390	700	1.2K	3.0K	6.0K	15.0K	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each					Huntington Part No.
			1	10	25	50	100	
.10-.75	1	ALSR1F-(Value)-ND	1.98	1.77	—	1.50	1.10	ALSR-1-(Value)-1%
1.0-900	1	ALSR1F-(Value)-ND	1.95	1.74	—	1.47	1.08	ALSR-1-(Value)-1%
1.0K-3.0K	1	ALSR1F-(Value)-ND	2.02	1.80	—	1.52	1.12	ALSR-1-(Value)-1%
.10-900	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
1.0K-2.7K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
3.0K-4.7K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
5.0K-10.0K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
.10-900	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%
1.0K-4.7K	5	ALSR5F-(Value)-ND	1.30	—	1.10	—	.91	ALSR-5-(Value)-1%
5.0K-8.2K	5	ALSR5F-(Value)-ND	1.30	—	1.10	—	.91	ALSR-5-(Value)-1%
10.0K-20.0K	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%
25.0K	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Silicone Coated Wirewound Resistors – 1, 3, 5, 10 Watt, 5%



Series	A ±.81mm	B ±.81mm	C	D
ALSR-1	2.79	9.78	.51	38.10
ALSR-3	5.08	13.46	.81	38.10
ALSR-5	7.92	23.80	.81	38.10
ALSR-10	7.92	45.72	.81	38.10

Electrical Specifications:

Series	ALSR-1	ALSR-3	ALSR-5	ALSR-10
Resistance Tolerance	±5%	±5%	±5%	±5%
Power Rating	1 Watts at 25°C	3 Watts at 25°C	5 Watts at 25°C	10 Watts at 25°C
Dielectric Withstanding Voltage	500 VAC	1000 VAC	1000 VAC	1000 VAC
Short Time Overload	5 X rated wattage for 5 seconds		10 X rated wattage for 5 seconds	

RESISTANCE VALUE CHART

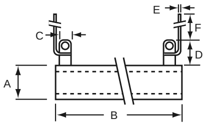
.10	2.0	25	75	270	680	1.75K	4.0K	8.5K	20.0K
.13	3.0	27	82	300	700	1.8K	4.5K	9.0K	22.0K
.15	4.0	30	100	330	750	2.0K	4.7K	10.0K	22.5K
.20	5.0	33	120	350	800	2.2K	5.0K	11.0K	25.0K
.25	7.5	35	125	390	820	2.25K	5.6K	12.0K	
.30	10	39	150	400	900	2.5K	6.0K	12.5K	
.33	12	40	180	450	1.0K	2.7K	6.8K	13.5K	
.50	15	47	200	470	1.1K	3.0K	7.0K	15.0K	
.75	18	50	220	500	1.2K	3.3K	7.5K	16.0K	
1.0	20	56	225	560	1.25K	3.5K	8.0K	17.5K	
1.5	22	68	250	600	1.5K	3.9K	8.2K	18.0K	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each				Huntington* Part No.
			1	10	50	100	
.10-.75	1	ALSR1J-(Value)-ND	1.63	1.45	1.23	.90	ALSR-1-(Value)
1.0-900	1	ALSR1J-(Value)-ND	1.59	1.43	1.21	.89	ALSR-1-(Value)
1.0K-5.6K	1	ALSR1J-(Value)-ND	1.85	1.66	1.40	1.03	ALSR-1-(Value)
6.0K-10.0K	1	ALSR1J-(Value)-ND	1.85	1.66	1.40	1.03	ALSR-1-(Value)
.10-900	3	ALSR3J-(Value)-ND	1.40	1.25	1.06	.78	ALSR-3-(Value)
1.0K-4.7K	3	ALSR3J-(Value)-ND	1.79	1.60	1.35	.99	ALSR-3-(Value)
5.0K-10.0K	3	ALSR3J-(Value)-ND	1.53	1.37	1.16	.85	ALSR-3-(Value)
.10-.75	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
1.0-7.5	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
10-2.7K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
3.0K-4.7K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
5.0K-9.0K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
10.0K-22.5K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
25.0K	5	ALSR5J-(Value)-ND	1.53	1.37	1.16	.85	ALSR-5-(Value)
.10-.75	10	ALSR10-(Value)-ND	1.98	1.77	1.50	1.10	ALSR-10-(Value)
1.0-680, 750-900	10	ALSR10-(Value)-ND	1.69	1.51	1.28	.94	ALSR-10-(Value)
1.0K-2.7K	10	ALSR10-(Value)-ND	1.82	1.63	1.38	1.01	ALSR-10-(Value)
3.0K-9.0K	10	ALSR10-(Value)-ND	2.11	1.89	1.60	1.17	ALSR-10-(Value)
10.0K-22.5K	10	ALSR10-(Value)-ND	2.31	2.06	1.74	1.28	ALSR-10-(Value)
25.0K	10	ALSR10-(Value)-ND	2.31	2.06	1.74	1.28	ALSR-10-(Value)

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Vitreous Enamel Wirewound Power Resistors – 8, 12 Watt

Series	A	B	C	D	E	F
FVTS-5	7.94	25.40	4.76	11.11	.81	50.80
FVTS-10	7.94	44.45	4.76	11.11	.81	50.80



Electrical Specifications:

Series	FVTS-5	FVTS-10
Resistance Tolerance	±5% 1Ω & above ±10% 1Ω & below	±5% 1Ω & above ±10% 1Ω & below
Power Rating	8 Watts at 25°C	12 Watts at 25°C
Dielectric Withstanding Voltage	1000 VAC	1000 VAC
Short Time Overload	5 X rated wattage for 5 seconds	10 X rated wattage for 5 seconds

RESISTANCE VALUE CHART

2.0	10	35	125	300	600	1.2K	2.5K	4.5K	7.5K	12.0K	40.0K
3.0	15	50	150	400	750	1.25K	3.0K	5.0K	8.0K	15.0K	50.0K
5.0	20	75	200	450	900	1.5K	3.5K	6.0K	9.0K	20.0K	
7.5	25	100	250	500	1.0K	2.0K	4.0K	7.0K	10.0K	25.0K	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each				Huntington Part No.
			1	25	100	250	
5.0-900	8	FVTS5-(Value)-ND	1.84	1.58	1.21	1.08	FVTS-5-(Value)
1.0K-4.5K	8	FVTS5-(Value)-ND	1.98	1.70	1.30	1.16	FVTS-5-(Value)
5.0K-9.0K	8	FVTS5-(Value)-ND	2.12	1.81	1.39	1.24	FVTS-5-(Value)
10.0K	8	FVTS5-(Value)-ND	1.95	1.67	1.28	1.14	FVTS-5-(Value)
2.0-450	12	FVTS10-(Value)-ND	2.09	1.79	1.37	1.22	FVTS-10-(Value)
500-900	12	FVTS10-(Value)-ND	2.31	1.98	1.52	1.35	FVTS-10-(Value)
1.0K-5.0K, 7.5K-9.0K	12	FVTS10-(Value)-ND	2.56	2.19	1.68	1.49	FVTS-10-(Value)
10.0K-20.0K	12	FVTS10-(Value)-ND	2.83	2.43	1.86	1.65	FVTS-10-(Value)
25.0K	12	FVTS10-(Value)-ND	3.19	2.73	2.09	1.86	FVTS-10-(Value)
40.0K, 50.0K	12	FVTS10-(Value)-ND	4.26	3.65	2.79	2.48	FVTS-10-(Value)

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Vitreous Enamel Wirewound Power Resistors – 25, 50, 100, 225 Watt

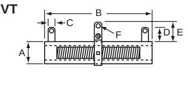
ADJUSTABLE AVT SERIES: • **Resistance Tolerance:** ±10%, wattage rating applied only when the entire resistance is in the circuit • **Dielectric Withstanding Voltage:** 1000VAC • **Short Time Overload:** 10 times the rated wattage for 5 seconds

FIXED FVT SERIES: • **Resistance Tolerance:** ±5% above 1 ohm, ±10% below 1 ohm • **Dielectric Withstanding Voltage:** 1000VAC • **Short Time Overload:** 10 times the rated wattage for 5 seconds

RESISTANCE VALUE CHART

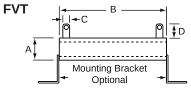
1.0	10	150	750	5.0K	50.0K
2.0	25	200	1.0K	10.0K	
3.0	50	250	2.5K	12.0K	
5.0	100	500	4.0K	25.0K	

AVT



Series	A	B	C	D	E	F
AVT25	14.29	50.80	6.35	14.29	17.46	4.22
AVT50	14.29	101.60	6.35	14.29	17.46	4.22
AVT100	19.05	165.10	6.35	14.29	17.46	4.22
AVT200	28.58	266.70	7.94	15.88	22.23	4.22

FVT



Series	A	B	C	D
FVT25	14.29	50.80	6.35	14.29
FVT50	14.29	101.60	6.35	14.29
FVT100	19.05	165.10	6.35	14.29
FVT200	28.58	266.70	7.94	15.88

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each				Huntington Part No.
			1	10	25	100	
2.0-3.0	25	FVT25-(Value)-ND	3.31	—	2.40	1.89	FVT-25-(Value)
10, 25, 100	25	FVT25-(Value)-ND	3.28	—	2.38	1.87	FVT-25-(Value)
500-4.0K	25	FVT25-(Value)-ND	3.28	—	2.38	1.87	FVT-25-(Value)
5.0K	25	FVT25-(Value)-ND	3.54	—	2.57	2.02	FVT-25-(Value)
10.0K-12.0K	25	FVT25-(Value)-ND	3.77	—	2.73	2.15	FVT-25-(Value)
25.0K-50.0K	25	FVT25-(Value)-ND	4.76	—	3.45	2.71	FVT-25-(Value)
1.0-5.0	50	FVT50-(Value)-ND	4.79	—	3.47	2.73	FVT-50-(Value)
10-100, 500, 1.0K	50	FVT50-(Value)-ND	4.50	—	3.26	2.56	FVT-50-(Value)
5.0K	50	FVT50-(Value)-ND	4.79	—	3.47	2.73	FVT-50-(Value)
1.0, 2.0, 5.0	100	FVT100-(Value)-ND	8.21	—	5.95	4.67	FVT-100-(Value)
10, 50, 100, 250, 1.0K	100	FVT100-(Value)-ND	7.48	—	5.42	4.26	FVT-100-(Value)
1.0, 3.0, 5.0	225	FVT200-(Value)-ND	12.36	11.13	9.89	9.27	FVT-200-(Value)
10, 50, 100, 250, 500	225	FVT200-(Value)-ND	10.30	9.27	8.24	7.73	FVT-200-(Value)
1.0K	225	FVT200-(Value)-ND	10.30	9.27	8.24	7.73	FVT-200-(Value)
1.0, 3.0, 5.0	25	AVT25-(Value)-ND	5.63	5.18	4.28	3.60	AVT-25-(Value)
10-100, 250, 500	25	AVT25-(Value)-ND	4.65	4.28	3.54	2.98	AVT-25-(Value)
1.0-5.0	50	AVT50-(Value)-ND	6.58	6.05	5.00	4.21	AVT-50-(Value)
10-100, 500	50	AVT50-(Value)-ND	5.65	5.20	4.30	3.62	AVT-50-(Value)
1.0K	50	AVT50-(Value)-ND	5.93	5.46	4.51	3.80	AVT-50-(Value)
1.0, 2.0	100	AVT100-(Value)-ND	12.83	11.80	9.75	8.21	AVT-100-(Value)
10, 50, 100, 250	100	AVT100-(Value)-ND	9.48	8.72	7.21	6.07	AVT-100-(Value)
1.0K	100	AVT100-(Value)-ND	10.95	10.08	8.33	7.01	AVT-100-(Value)
1.0-5.0	225	AVT200-(Value)-ND	22.35	20.57	16.99	14.31	AVT-200-(Value)
10-500	225	AVT200-(Value)-ND	16.10	14.82	12.24	10.31	AVT-200-(Value)
1.0K	225	AVT200-(Value)-ND	16.90	15.55	12.85	10.82	AVT-200-(Value)
Mounting Bracket for 25/50W Res.‡		B1003-ND	.45	—	.35	.25	B1003-1
Mounting Bracket for 100W Res.‡		B1002-ND	.54	—	.42	.30	B1002-1
Mounting Bracket for 200W Res.‡		B1001-ND	.59	—	.46	.33	B1001-1

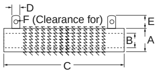
* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).
‡ Requires 2 brackets per resistor

HUNTINGTON ELECTRIC, INC.

Edgewound Resistors – 300, 1000 Watt

HEI Edgewound Resistors are designed for applications demanding maximum power dissipation in minimum space. Edgewounds are constructed of special alloy resistance wire, crimped, and wound on edge. High quality ceramic cores are used with a coating of either vitreous enamel or silicone to provide heat sink for short term overloads and maximum dissipation.

Specifications: • **Dielectric Withstanding Voltage:** Measured from terminals to brackets, 1000 VAC • **Overload:** 10 X rated power for 5 seconds • **Tolerance:** ±10% • Wattage is based on 25°C free air rating.



Series	A	(Core) B	C	D	(Terminal) E	F
FVE-300	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
AVE-300	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
FSE-1000	63.50	44.45	381.00	12.70	15.88	6.35 - 508.00

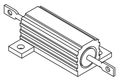
RESISTANCE VALUE CHART

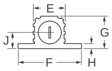
FVE-300 Fixed			AVE-300 Adj.				FSE-1000 Fixed		
.50	5.0	12	.10	.20	1.6	20	.25	3.5	15
1.2	8.0	16	.12	.80	8.0		.50	4.5	
2.0	10	20	.16	1.0	16		1.0	10	

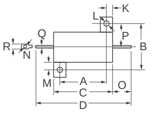
Resistance Range (Ω)	Watt-age	Digi-Key* Part No.	Price Each 1	10	25	Huntington* Part No.
.50 - 20	300	FVE300-(Value)-ND	16.48	14.81	12.54	FVE-300-(Value)
.10 - 20	300	AVE300-(Value)-ND	25.76	20.58	14.42	AVE-300-(Value)
.25 - 15	1000	FSE1000-(Value)-ND	51.50	46.35	—	FSE-1000-(Value)
FVE-300 and AVE-300 Mounting Kit		K1016-ND		9.75 each		K1016
FSE-1000 Mounting Kit		K3003-ND		16.69 each		K3003

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Aluminum Housed Chassis Mount Resistors – 5, 10, 25, 50 Watt, 1% (Precision Power Wirewound)







HEI's high power aluminum housed resistors use centerless ground ceramic cores for uniform heat distribution. Molded in a special high temperature material and mounted in an extruded aluminum finned housing, these designs provide maximum power dissipation and reliability. They have tinned copperweld leads for solderability and meet or exceed MIL-R-18546, including "N" characteristic, and MIL-R-39009. **Specifications:** • Power Rating: Based on full power operation at 25°C, and maximum hotspot 275°C. • Mounting on proper heat sink as follows: For 5 and 10 Watt – use 4" x 6" x 2" x .040" (101.60 x 152.40 x 50.80 x 1.02mm) aluminum chassis; For 25 and 50 Watt – use 5" x 7" x 2" x .040" (127.00 x 177.80 x 50.80 x 1.02mm) aluminum chassis.

Electrical Specifications:

Series	TMC-5	TMC-10	TMC-25	TMC-50
MIL-R-39009/MIL-R-18546	RER-60/RE-60	RER-65/RE-65	RER-70/RE-70	RER-75/RE-75
HEI Power	7.5 Watts	12.5 Watts	25 Watts	50 Watts
MIL Power	5 Watts	10 Watts	20 Watts	30 Watts
Working Voltage	160	265	550	1250
Dielectric Strength	1000 VAC	1000 VAC	2500 VAC	2500 VAC

Series	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q AWG	R
TMC-5	11.40	12.57	16.03	30.15	8.86	16.79	8.51	1.91	3.81	2.24	2.49	2.36	1.40	8.33	7.01	16	2.97
TMC-10	14.40	16.00	19.84	36.50	11.30	20.70	10.54	2.16	5.08	2.62	2.49	2.97	2.31	9.50	8.71	12	4.37
TMC-25	18.39	19.96	27.76	50.80	13.84	27.81	14.61	2.41	6.86	4.62	3.30	3.56	2.31	12.70	10.72	12	4.37
TMC-50	39.83	21.56	50.77	72.21	16.00	29.34	16.00	2.41	7.87	5.23	3.30	3.56	2.31	12.70	11.51	12	4.37

RESISTANCE VALUE CHART

TMC-5			TMC-10			TMC-25			TMC-50				
.10	25	2.0K	.20	33	330	.10	20	500	.15	1.5	8.0	40	300
.50	30	10.0K	1.0	35	1.0K	1.0	25	1.0K	.20	2.0	10	50	500
1.0	100	15.0K	2.0	50	2.0K	2.0	40	2.0K	.25	2.5	12	75	1.0K
5.0	150		2.5	75	2.5K	3.0	100	3.0K	.30	3.3	16	100	1.5K
10	300		10	100	10.0K	12	200		.50	5.0	20	150	2.5K
12	390		25	300		15	300		1.0	6.0	30	250	5.0K

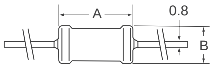
Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	50	100	250	Huntington* Part No.
.10-15.0K	5	TMC5-(Value)-ND	3.37	2.87	2.37	2.03	1.86	TMC-5-(Value)-1%
.20-10.0K	10	TMC10-(Value)-ND	3.56	3.04	2.49	2.14	1.96	TMC-10-(Value)-1%
.10-3.0K	25	TMC25-(Value)-ND	4.98	4.25	3.49	2.99	2.76	TMC-25-(Value)-1%
.15-5.0K	50	TMC50-(Value)-ND	5.21	4.44	3.65	3.14	2.88	TMC-50-(Value)-1%

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

BC COMPONENTS

1% and 5% Cemented Wirewound Precision Resistors

The resistor element is a resistive wire which is wound in a single layer on a ceramic rod. Metal caps are pressed over the ends of the rod. The ends of the resistance wire and the leads are connected to the caps by welding. Tinned copper-clad iron leads with poor heat conductivity are employed permitting the use of relatively short leads to obtain stable mounting without overheating the solder joint. The resistor is coated with a green silicon cement which is not resistant to aggressive fluxes. The coating is non-flammable, will not drip even at high overloads and is resistant to most commonly used cleaning solvents, in accordance with MIL-STD-202E, method 215 and IEC 60068-2-45.



Type	A Max. (mm)	B Max. (mm)
PAC01	10	4.3
PAC03	17	5.5
PAC05	23	7.5
AC01	10	4.3
AC03	13	5.5
AC05	17	7.5
AC07	25	7.5

Value Range (Ohms)	Wattage	Res. Tol.	Digi-Key* Part No.	Pricing 5	200	500	Digi-Key* Part No.	Tape & Box Pricing 500	1,000	5,000	10,000	BC Components Part No.
.10-910	1	1%	PAC1D(Value)CT-ND	13.68	208.80	288.00	PAC1D(Value)TB-ND	—	525.00	448.00/M	406.00/M	2306 327 5xxxx
1.0K-2.5K			PAC1D(Value)CT-ND	17.01	259.55	358.00	PAC1D(Value)TB-ND	—	656.25	560.00/M	507.50/M	2306 327 5xxxx
.10-910	3	1%	PAC3D(Value)CT-ND	16.53	252.30	—	PAC3D(Value)TB-ND	—	544.00	493.00/M	442.00/M	2306 327 1xxxx
1.0K-5.0K			PAC3D(Value)CT-ND	19.29	294.35	—	PAC3D(Value)TB-ND	—	636.80	577.10/M	517.40/M	2306 327 1xxxx
.10-1.0K	5	1%	PAC5D(Value)CT-ND	18.81	287.10	—	PAC5D(Value)TB-ND	363.75	620.80	562.60/M	504.40/M	2306 327 3xxxx
1.1K-10.0K			PAC5D(Value)CT-ND	21.28	324.80	—	PAC5D(Value)TB-ND	412.50	704.00	638.00/M	572.00/M	2306 327 3xxxx
.10-750	1	5%	AC1W(Value)CT-ND	8.65	131.95	182.00	AC1W(Value)TB-ND	—	326.25	278.40/M	252.30/M	2306 328 33xxx
820-2.4K			AC1W(Value)CT-ND	9.41	143.55	198.00	AC1W(Value)TB-ND	—	356.25	304.00/M	275.50/M	2306 328 33xxx
.10-750	3	5%	AC3W(Value)CT-ND	10.12	154.43	—	AC3W(Value)TB-ND	192.19	328.00	297.25/M	266.50/M	2322 329 03xxx
820-5.0K			AC3W(Value)CT-ND	13.87	211.70	—	AC3W(Value)TB-ND	266.25	454.40	411.80/M	369.20/M	2322 329 03xxx
.10-1.0K	5	5%	AC5W(Value)CT-ND	11.78	179.80	—	AC5W(Value)TB-ND	225.00	384.00	348.00/M	312.00/M	2322 329 05xxx
1.1K-10.0K			AC5W(Value)CT-ND	14.92	227.65	—	AC5W(Value)TB-ND	286.88	489.60	443.70/M	397.80/M	2322 329 05xxx
.10-1.0K	7	5%	AC7W(Value)CT-ND	14.92	227.65	—	AC7W(Value)TB-ND	286.88	489.60	443.70/M	397.80/M	2322 329 07xxx
1.1K-15.0K			AC7W(Value)CT-ND	19.14	292.18	—	AC7W(Value)TB-ND	370.31	632.00	572.75/M	513.50/M	2322 329 07xxx

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

1% PAC Resistance Values

1W			3W			5W		
.10	33.0	750	.10	33.0	750	.10	33.0	750
.13	36.0	820	.13	36.0	820	.13	36.0	820
.15	39.0	910	.15	39.0	910	.15	39.0	910
.20	47.0	1.0K	.20	47.0	1.0K	.20	47.0	1.0K
.25	50.0	1.1K	.25	50.0	1.1K	.25	50.0	1.1K
.30	56.0	1.2K	.30	56.0	1.2K	.30	56.0	1.2K
.33	68.0	1.5K	.33	68.0	1.5K	.33	68.0	1.5K
.47	75.0	1.8K	.47	75.0	1.8K	.47	75.0	1.8K
.50	82.0	2.0K	.50	82.0	2.0K	.50	82.0	2.0K
.75	100	2.2K	.75	100	2.2K	.75	100	2.2K
1.0	120	2.5K	1.0	120	2.5K	1.0	120	2.5K
1.5	124		1.5	124	2.7K	1.5	124	2.7K
2.0	150		2.0	150	3.0K	2.0	150	3.0K
3.0	180		3.0	180	3.6K	3.0	180	3.6K
3.9	200		3.9	200	3.9K	3.9	200	3.9K
4.7	220		4.7	220	4.7K	4.7	220	4.7K
5.0	250		5.0	250	5.0K	5.0	250	5.0K
7.5	270		7.5	270		7.5	270	5.6K
10.0	300		10.0	300		10.0	300	6.2K
12.0	330		12.0	330		12.0	330	6.8K
15.0	360		15.0	360		15.0	360	7.5K
18.0	390		18.0	390		18.0	390	8.2K
20.0	470		20.0	470		20.0	470	9.1K
22.0	500		22.0	500		22.0	500	10.0K
25.0	560		25.0	560		25.0	560	
27.0	620		27.0	620		27.0	620	
30.0	680		30.0	680		30.0	680	

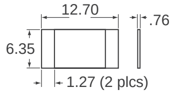
5% AC Resistance Values

1W			3W			5W			7W		
.10	39.0	1.0K	.10	39.0	1.0K	.10	39.0	1.0K	.10	39.0	1.0K
.13	43.0	1.1K	.13	43.0	1.1K	.13	43.0	1.1K	.13	43.0	1.1K
.15	47.0	1.2K	.15	47.0	1.2K	.15	47.0	1.2K	.15	47.0	1.2K
.20	50.0	1.5K	.20	50.0	1.5K	.20	50.0	1.5K	.20	50.0	1.5K
.24	56.0	1.8K	.24	56.0	1.8K	.24	56.0	1.8K	.24	56.0	1.8K
.30	68.0	2.0K	.30	68.0	2.0K	.30	68.0	2.0K	.30	68.0	2.0K
.33	75.0	2.2K	.33	75.0	2.2K	.33	75.0	2.2K	.33	75.0	2.2K
.47	82.0	2.4K	.47	82.0	2.4K	.47	82.0	2.4K	.47	82.0	2.4K
.50	100		.50	100	2.7K	.50	100	2.7K	.50	100	2.7K
.75	120		.75	120	3.0K	.75	120	3.0K	.75	120	3.0K
1.0	150		1.0	150	3.3K	1.0	150	3.3K	1.0	150	3.3K
1.5	180		1.5	180	3.6K	1.5	180	3.6K	1.5	180	3.6K
2.0	200		2.0	200	3.9K	2.0	200	3.9K	2.0	200	3.9K
3.0	220		3.0	220	4.3K	3.0	220	4.3K	3.0	220	4.3K
3.9	240		3.9	240	4.7K	3.9	240	4.7K	3.9	240	4.7K
4.7	270		4.7	270	5.0K	4.7	270	5.0K	4.7	270	5.0K
5.0	300		5.0	300		5.0	300	5.6K	5.0	300	5.6K
7.5	330		7.5	330		7.5	330	6.2K	7.5	330	6.2K
10.0	360		10.0	360		10.0	360	6.8K	10.0	360	6.8K
12.0	390		12.0	390		12.0	390	7.5K	12.0	390	7.5K
15.0	430		15.0	430		15.0	430	8.2K	15.0	430	8.2K
18.0	470		18.0	470		18.0	470	9.1K	18.0	470	9.1K
20.0	500		20.0	500		20.0	500	10.0K	20.0	500	10.0K
22.0	560		22.0	560		22.0	560		22.0	560	11.0K
24.0	620		24.0	620		24.0	620		24.0	620	12.0K
27.0	680		27.0	680		27.0	680		27.0	680	13.0K
30.0	750		30.0	750		30.0	750		30.0	750	15.0K
33.0	820		33.0	820		33.0	820		33.0	820	
36.0	910		36.0	910		36.0	910		36.0	910	

Macrochip SMD Precision Thick Film Resistors

MacroChip resistors bring precision high voltage capabilities to the surface mount level. Designed with thick film on alumina substrate technology. The planar package design is low profile for easy use with instrumentation, medical equipment, voltage regulators, and power supplies.

Features: • Non-inductive design • Low voltage coefficient • Surface mount • Pd Ag terminations
Material: • Resistor: Thick film on Alumina
Electrical: • Resistance Range: 200 Ohms to 5,000M • Power at 25°C Ambient: 1.0W • Voltage Rating: 5.0KV
• Tolerance: 0.5% to 20% • Operating Temperature: -55°C to +180°C



Resistance Range (Ohms)	Wattage	Tolerance	Digi-Key* Part No.	Price Each 1	10	50	100	200
1K - 50M	1	5%	MC102J-(Value)-ND	4.16	2.78	2.22	1.67	1.39

*For complete part number, substitute Digi-Key value from Resistance Value Chart for (Value).

RESISTANCE VALUE CHART

Value	Value	Value
1K	50K	1.25M
2.5K	75K	1.5M
5K	100K	1.75M
7.5K	125K	2M
10K	150K	2.5M
12.5K	200K	5M
15K	250K	10M
17.5K	500K	25M
20K	750K	50M
25K	1M	

SMD Power Resistors — RW Series

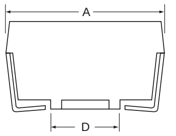
1, 1.5, 2, 3 and 3.5 Watt

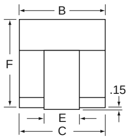
Electrical Specifications

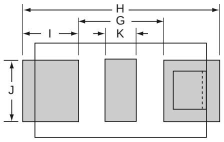
	RW1S0BA	RW1S5CA	RW2S0CB	RW2R0DA	RW2S0DA	RW3R0DB	RW3R5EA
Power at 25°C Ambient	1 Watt	1.5 Watt	2 Watt	2 Watt	2 Watt	3 Watt	3.5 Watt
Max. Voltage	50	75	100	100	100	200	350
Temperature Coefficient	0.1 to 1 ohm — ±90 ppm/°C 1 to 10 ohms — ±50 ppm/°C 10 ohms and over — ±20 ppm/°C						
Dielectric With-standing Voltage	1000 V						

RESISTANCE VALUE CHART

RW1S0BA( )F 1%	RW1S0BA( )J 5%		RW1S5CA 5%	RW2R0DA 5%	RW2S0CB 5%	RW2S0DA( )J 5%	RW3R0DB 5%		RW3R5EA 5%
Value (Code)	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**
.010 (R010)	.005 (R005)	.100 (R100)	.005 (R005)	.005 (R005)	.005 (R005)	1.0 (1R00)	.005 (R005)	5.0 (5R00)	.010 (R010)
.015 (R015)	.010 (R010)	.150 (R150)	.010 (R010)	.010 (R010)	.010 (R010)	5.0 (5R00)	.010 (R010)	10.0 (10R0)	.020 (R020)
.020 (R020)	.015 (R015)	.200 (R200)	.015 (R015)	.015 (R015)	.020 (R020)	10.0 (10R0)	.015 (R015)	15.0 (15R0)	.025 (R025)
.030 (R030)	.020 (R020)	.240 (R240)	.030 (R030)	.020 (R020)	.030 (R030)	15.0 (15R0)	.025 (R025)	24.0 (24R0)	.030 (R030)
.033 (R033)	.024 (R024)	.300 (R300)	.040 (R040)	.025 (R025)	.050 (R050)	24.0 (24R0)	.036 (R036)	47.0 (47R0)	.036 (R036)
.039 (R039)	.027 (R027)	.360 (R360)	.080 (R080)	.030 (R030)	.150 (R150)	47.0 (47R0)	.050 (R050)	68.0 (68R0)	.050 (R050)
.047 (R047)	.030 (R030)	.470 (R470)	.100 (R100)	.050 (R050)	.200 (R200)	68.0 (68R0)	.075 (R075)	100.0 (100R)	.100 (R100)
.050 (R050)	.036 (R036)	.680 (R680)	.150 (R150)	.100 (R100)	.300 (R300)	100.0 (100R)	.100 (R100)	150.0 (150R)	.200 (R200)
.100 (R100)	.050 (R050)	.750 (R750)	.200 (R200)	.470 (R470)	.500 (R500)	150.0 (150R)	.500 (R500)		.500 (R500)
	.075 (R075)	1.00 (1R00)	.500 (R500)	1.00 (1R00)	1.00 (1R00)		1.00 (1R00)		1.00 (1R00)







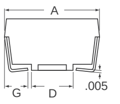
Max. Dimensions (mm)											
Series	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**
RW1S0BA	6.76	3.58	3.38 Ref.	3.05	1.63	3.58	3.81	8.79	2.49	3.20	1.27
RW1S5CA	10.52	4.17	3.96 Ref.	5.84	2.24	4.17	6.50	13.31	3.40	3.20	1.52
RW2S0CB	10.85	5.87	5.64 Ref.	6.86	2.46	5.77	7.01	13.64	3.33	3.20	2.36
RW2R0DA	12.06	6.22	5.99 Ref.	6.86	3.94	5.87	8.05	14.86	3.40	3.94	2.36
RW2S0DA	12.06	6.22	5.99 Ref.	6.86	3.94	5.87	8.05	14.86	3.40	3.94	2.36
RW3R0DB	16.05	7.06	6.81 Ref.	10.85	3.94	5.87	12.04	18.85	3.40	3.94	2.36
RW3R5EA	21.11	7.06	6.81 Ref.	14.78	3.94	6.98	15.52	25.40	4.95	3.94	2.36

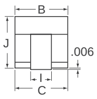
Resistance Range (Ohms)	Wattage	Tolerance	Digi-Key* Part No.	Bulk Price Each 1	100	500	Digi-Key* Part No.	Tape & Reel Pricing 750	1,000	1,500	2,000
.010 - .050	1	1%	RW1S0BA(Code)FBK-ND	2.53	2.10	1.79	RW1S0BA(Code)FTTR-ND	—	—	—	1680.00/M
.100	1	1%	RW1S0BA(Code)FBK-ND	3.22	2.68	2.28	RW1S0BA(Code)FTTR-ND	—	—	—	2140.00/M
.005 - .050	1	5%	RW1S0BA(Code)JBK-ND	2.05	1.70	1.45	RW1S0BA(Code)JTTR-ND	—	—	—	1360.00/M
.075 - 1.00	1	5%	RW1S0BA(Code)JBK-ND	2.48	2.06	1.75	RW1S0BA(Code)JTTR-ND	—	—	—	1650.01/M
.005 - .040	1.5	5%	RW1S5CA(Code)JBK-ND	1.81	1.50	1.28	RW1S5CA(Code)JTTR-ND	—	—	1200.00/M	—
.080 - .500	1.5	5%	RW1S5CA(Code)JBK-ND	2.39	1.98	1.68	RW1S5CA(Code)JTTR-ND	—	—	1580.00/M	—
.050	2	1%	RW2R0DAR050FBK-ND	2.13	1.77	1.50	RW2R0DAR050FTTR-ND	—	1420.00	—	—
.005 - .050	2	5%	RW2R0DA(Code)JBK-ND	1.87	1.55	1.32	RW2R0DA(Code)JTTR-ND	—	1240.00	—	—
.100 - 1.00	2	5%	RW2R0DA(Code)JBK-ND	2.24	1.86	1.58	RW2R0DA(Code)JTTR-ND	—	1490.00	—	—
.005 - 050	2	5%	RW2S0CB(Code)JBK-ND	1.79	1.49	1.27	RW2S0CB(Code)JTTR-ND	—	1190.00	—	—
.150 - 1.00	2	5%	RW2S0CB(Code)JBK-ND	2.28	1.89	1.61	RW2S0CB(Code)JTTR-ND	—	1510.00	—	—
1.0 - 150.0	2	5%	RW2S0DA(Code)JBK-ND *NEW!*	2.24	1.86	1.58	RW2S0DA(Code)JTTR-ND *NEW!*	—	1490.00	—	—
.005- .050	3	5%	RW3R0DB(Code)JBK-ND	2.15	1.78	1.51	RW3R0DB(Code)JTTR-ND	—	1420.00	—	—
.075 - 150.0	3	5%	RW3R0DB(Code)JBK-ND *NEW!*	2.42	2.01	1.71	RW3R0DB(Code)JTTR-ND *NEW!*	—	1610.00	—	—
.010 - .050	3.5	5%	RW3R5EA(Code)JBK-ND	2.28	1.89	1.61	RW3R5EA(Code)JTTR-ND	1132.50	—	—	—
.100 - 1.00	3.5	5%	RW3R5EA(Code)JBK-ND	2.42	2.02	1.72	RW3R5EA(Code)JTTR-ND	1215.00	—	—	—

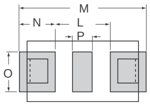
*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

SMD Carbon Composition Power Resistors — RC Series

.25, .50 and 1 Watt







Electrical Specifications

	RC0S2CA	RC0R5DB	RC1R0EA
Power at 25°C Ambient	.25 Watt	.50 Watt	1 Watt
Max. Voltage	250	350	500
Temperature Coefficient	RC0S2CA and RC0R5DB — 1 to 10 ohms and over ±400 ppm/°C RC1R0EA — 1 to 10 ohms and over -1300 ppm/°C		
Dielectric With-standing Voltage	1000 V		

RESISTANCE VALUE CHART

RC0S2CA 5%	RC0R5DB 5%	RC1R0EA 5%
Value (Code)	**Value (Code)**	**Value (Code)**
4.7 (4R70)	2.7 (2R70)	3.3 (3R30)
6.8 (6R80)	7.5 (7R50)	4.7 (4R70)
10 (10R0)	15 (15R0)	6.8 (6R80)
15 (15R0)	24 (24R0)	8.2 (8R20)
20 (20R0)	39 (39R0)	10 (10R0)
30 (30R0)	56 (56R0)	15 (15R0)
47 (47R0)	75 (75R0)	22 (22R0)
68 (68R0)	100 (100R)	33 (33R0)
100 (100R)	150 (150R)	47 (47R0)
470 (470R)	270 (270R)	68 (68R0)
1.0K (1K00)	360 (360R)	100 (100R)
	560 (560R)	
	750 (750R)	
	1.0K (1K00)	

	Maximum Dimensions (mm)											
Series	**A**	**B**	**C**	**D**	**G**	**I**	**J**	**L**	**M**	**N**	**O**	**P**
RC0S2CA	10.008	4.039	3.962 Ref.	5.588	1.575	1.981	4.038	6.50	13.31	3.40	3.20	1.52
RC0R5DB	15.545	6.934	6.807 Ref.	10.592	1.575	3.632	5.740	12.04	18.85	3.40	3.94	2.36
RC1R0EA	20.599	6.934	6.807 Ref.	14.529	2.362	3.632	6.934	15.52	25.4	4.95	3.94	2.36

Resistance Range (Ohms)	Wattage	Tolerance	Type	Digi-Key* Part No.	Bulk Price Each 1	100	500	Digi-Key* Part No.	Tape & Reel Pricing 750	1,000	1,500
4.7 - 1.0K	.25	5%	Carbon Comp	RC0S2CA(Code)JBK-ND	1.33	1.12	.96	RC0S2CA(Code)JTTR-ND	—	—	936.00/M
2.7 - 1.0K	.50	5%	Carbon Comp	RC0R5DB(Code)JBK-ND	1.67	1.40	1.20	RC0R5DB(Code)JTTR-ND	—	1170.00	—
3.3 - 100	1	5%	Ceramic Comp	RC1R0EA(Code)KBK-ND	1.81	1.52	1.31	RC1R0EA(Code)KTTR-ND	955.50	—	—

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

OX / OY Resistor Series - Ceramic Composition

Features: • Replaces 1 and 2 watt carbon composition resistors • Meets high energy density demands • High peak power • 10% Tolerance.

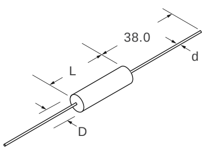
Material: • Terminals: Solder-coated axial leads • Coating: UL-94 V0 approved silicone.

Derating: • Linear from 100% @ +70°C to 0% @ +200°C.

Electrical: • Resistance Tolerance: ±10% standard • Power Rating: Based on 70°C free air rating • Temperature Coefficient: -1300 ±300ppm/°C • Dielectric Withstanding Voltage: 500VAC (750VAC for OY Series) • Joules Maximum (For a single impulse): 50 (80 for OY Series)

Resistance Range (Ohms)	Wattage	Joules Max.**	Digi-Key* Part No.	Price Each 1	100	1,000
3.3 - 100	1	50	OX(Code)-ND	.77	.62	.50
120 - 100K	1	50	OX(Code)-ND	.71	.57	.46
3.3 - 100	2	80	OY(Code)-ND	1.00	.80	.65
120 - 100K	2	80	OY(Code)-ND	.93	.74	.60
120K - 1MEG	2	80	OY(Code)-ND	1.09	.87	.71

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ** For a single impulse.



Series	Maximum Dimensions Inch (mm) D	L	d
OX	.256 (6.5)	.748 (19.0)	.030 (.81)
OY	.315 (8.0)	.886 (22.5)	.030 (.81)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
3.3 (33GK)	47 (470K)	680 (681K)	10K (103K)	150K (154K)
3.9 (39GK)	56 (560K)	820 (821K)	12K (123K)	180K (184K)
4.7 (47GK)	68 (680K)	1K (102K)	15K (153K)	220K (224K)
5.6 (56GK)	82 (820K)	1.2K (122K)	18K (183K)	270K (274K)
6.8 (68GK)	100 (101K)	1.5K (152K)	22K (223K)	330K (334K)
8.2 (82GK)	120 (121K)	1.8K (182K)	27K (273K)	390K (394K)
10 (100K)	150 (151K)	2.2K (222K)	33K (333K)	470K (474K)
12 (120K)	180 (181K)	2.7K (272K)	39K (393K)	560K (564K)
15 (150K)	220 (221K)	3.3K (332K)	47K (473K)	680K (684K)
18 (180K)	270 (271K)	3.9K (392K)	56K (563K)	820K (824K)
22 (220K)	330 (331K)	4.7K (472K)	68K (683K)	1MEG (105K)
27 (270K)	390 (391K)	5.6K (562K)	82K (823K)	
33 (330K)	470 (471K)	6.8K (682K)	100K (104K)	
39 (390K)	560 (561K)	8.2K (822K)	120K (124K)	

Little Demon® Carbon Composition Molded Resistors

OD and OF Series - 5% Tolerance, OA Series - 10% Tolerance

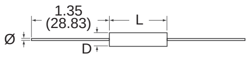
Little Demons are small, reliable carbon composition resistors with exceptional strength. They are made tough by a molding process that combines the leads, insulation and resistive element into an integrated unit. Along with their small size, Little Demons perform with low noise, dissipate heat rapidly and offer high temperature stability.

Color codes are readable even after prolonged use thanks to a very durable coating that resists abrasions and chipping normally associated with automatic insertion equipment.

Features: • Molded insulation for high dielectric strength • Rugged construction • Available in Resistor Cabinet Assortments and 100 piece packs • High surge capabilities • Comparable to "Mil" RC07, RC20, and RC32 types

Material: • Terminals: Solder-coated copper lead • Body: Molded Phenolic

Electrical: • Tolerance: ±5% (OD/OF) ±10% (OA) • Derating: Lineraly from 100% @ +70°C to 0% @ 130°C



Series	Maximum Dimensions Inch (mm) L	D	ø
OD	0.276 (7.0)	0.098 (2.5)	.027 (.69)
OF	0.406 (10.3)	0.150 (3.8)	.029 (.75)
OA	0.591 (15.0)	0.236 (6.0)	.035 (.92)

RESISTANCE VALUE CHART
1/4W, 5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	15 (150J)	120 (121J)	1.0K (102J)	10K (103J)	68K (683J)	560K (564J)
2.4 (24GJ)	18 (180J)	150 (151J)	1.2K (122J)	12K (123J)	75K (753J)	620K (624J)
2.7 (27GJ)	20 (200J)	180 (181J)	1.5K (152J)	15K (153J)	82K (823J)	680K (684J)
3.0 (30GJ)	22 (220J)	200 (201J)	1.8K (182J)	18K (183J)	100K (104J)	750K (754J)
3.3 (33GJ)	24 (240J)	220 (221J)	2.2K (222J)	20K (203J)	120K (124J)	820K (824J)
3.6 (36GJ)	27 (270J)	240 (241J)	2.4K (242J)	22K (223J)	150K (154J)	1.0M (105J)
3.9 (39GJ)	30 (300J)	270 (271J)	2.7K (272J)	24K (243J)	180K (184J)	1.5M (155J)
4.3 (43GJ)	33 (330J)	300 (301J)	3.0K (302J)	27K (273J)	200K (204J)	2.0M (205J)
4.7 (47GJ)	36 (360J)	330 (331J)	3.3K (332J)	30K (303J)	220K (224J)	2.4M (245J)
5.1 (51GJ)	39 (390J)	360 (361J)	3.6K (362J)	33K (333J)	270K (274J)	3.0M (305J)
5.6 (56GJ)	43 (430J)	390 (391J)	3.9K (392J)	36K (363J)	300K (304J)	3.6M (365J)
6.2 (62GJ)	47 (470J)	430 (431J)	4.3K (432J)	39K (393J)	330K (334J)	4.3M (435J)
6.8 (68GJ)	56 (560J)	470 (471J)	4.7K (472J)	43K (433J)	360K (364J)	4.7M (475J)
7.5 (75GJ)	62 (620J)	560 (561J)	5.6K (562J)	47K (473J)	390K (394J)	5.6M (565J)
8.2 (82GJ)	75 (750J)	620 (621J)	6.2K (622J)	51K (513J)	430K (434J)	
10 (100J)	82 (820J)	750 (751J)	7.5K (752J)	56K (563J)	470K (474J)	
12 (120J)	100 (101J)	820 (821J)	8.2K (822J)	62K (623J)	510K (514J)	

RESISTANCE VALUE CHART
1/2W, 5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	18 (180J)	180 (181J)	1.8K (182J)	20K (203J)	150K (154J)	1.5M (155J)
2.4 (24GJ)	20 (200J)	200 (201J)	2.2K (222J)	22K (223J)	180K (184J)	2.0M (205J)
2.7 (27GJ)	22 (220J)	220 (221J)	2.4K (242J)	24K (243J)	200K (204J)	2.4M (245J)
3.0 (30GJ)	24 (240J)	240 (241J)	2.7K (272J)	27K (273J)	220K (224J)	3.0M (305J)
3.3 (33GJ)	27 (270J)	270 (271J)	3.0K (302J)	30K (303J)	270K (274J)	3.6M (365J)
3.6 (36GJ)	30 (300J)	300 (301J)	3.3K (332J)	33K (333J)	300K (304J)	4.3M (435J)
3.9 (39GJ)	33 (330J)	330 (331J)	3.6K (362J)	36K (363J)	330K (334J)	4.7M (475J)
4.3 (43GJ)	36 (360J)	360 (361J)	3.9K (392J)	39K (393J)	360K (364J)	5.6M (565J)
4.7 (47GJ)	39 (390J)	390 (391J)	4.3K (432J)	43K (433J)	390K (394J)	6.8M (685J)
5.1 (51GJ)	43 (430J)	430 (431J)	4.7K (472J)	47K (473J)	430K (434J)	7.5M (755J)
5.6 (56GJ)	47 (470J)	470 (471J)	5.6K (562J)	51K (513J)	470K (474J)	8.2M (825J)
6.2 (62GJ)	56 (560J)	560 (561J)	6.2K (622J)	56K (563J)	510K (514J)	10M (106J)
6.8 (68GJ)	62 (620J)	620 (621J)	7.5K (752J)	62K (623J)	560K (564J)	12M (126J)
7.5 (75GJ)	75 (750J)	750 (751J)	8.2K (822J)	68K (683J)	620K (624J)	15M (156J)
8.2 (82GJ)	82 (820J)	820 (821J)	10K (103J)	75K (753J)	680K (684J)	18M (186J)
10 (100J)	100 (101J)	1.0K (102J)	12K (123J)	82K (823J)	750K (754J)	20M (206J)
12 (120J)	120 (121J)	1.2K (122J)	15K (153J)	100K (104J)	820K (824J)	
15 (150J)	150 (151J)	1.5K (152J)	18K (183J)	120K (124J)	1.0M (105J)	

RESISTANCE VALUE CHART
1W, 10%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GK)	27 (270K)	270 (271K)	2.7K (272K)	27K (273K)	270K (274K)
2.7 (27GK)	33 (330K)	330 (331K)	3.3K (332K)	33K (333K)	330K (334K)
3.3 (33GK)	39 (390K)	390 (391K)	3.9K (392K)	39K (393K)	390K (394K)
4.7 (47GK)	47 (470K)	470 (471K)	4.7K (472K)	47K (473K)	470K (474K)
5.6 (56GK)	56 (560K)	560 (561K)	5.6K (562K)	56K (563K)	560K (564K)
6.8 (68GK)	68 (680K)	680 (681K)	6.8K (682K)	68K (683K)	680K (684K)
8.2 (82GK)	82 (820K)	820 (821K)	8.2K (822K)	82K (823K)	820K (824K)
10 (100K)	100 (101K)	1.0K (102K)	10K (103K)	100K (104K)	1.0M (105K)
12 (120K)	120 (121K)	1.2K (122K)	12K (123K)	120K (124K)	
15 (150K)	150 (151K)	1.5K (152K)	15K (153K)	150K (154K)	
18 (180K)	180 (181K)	1.8K (182K)	18K (183K)	180K (184K)	
22 (220K)	220 (221K)	2.2K (222K)	22K (223K)	220K (224K)	

Resistance Range (Ohms)	Wattage	Tolerance	Digi-Key* Part No.	Price Each 1	100	500
2.2 - 5.6M	.25	5%	OD(Code)-ND	.42	.35	.32
2.2 - 20M	.50	5%	OF(Code)-ND	.54	.45	.41
2.2 - 1.0M	1	10%	OA(Code)-ND	1.92	1.75	1.58

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Ceramic Composition Resistors

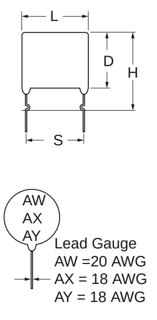
The "A" Series of non-inductive, ceramic composite resistors are designed for a variety of applications where high energy handling capabilities are crucial. Designed for use in motor drives, UPS and other power conversion systems, these resistors are ideal for any application which is subject to surges, high peak power, impulse energy, or inrush current limiting.

Material Specifications:

- Resistance Element: Bulk Ceramic
- Terminals: Solder coated radial leads (axial lead version available upon request)
- Coating: UL94V0, solvent resistant epoxy

Electrical Specifications:

- Tolerance: ± 10% Standard
- Derating: Derates linearly from 100% @ 50°C to 0% @ 150°C
- Temperature Rise: 100°C @ 100% rated power, 50°C ambient



Series	Dimensions - Inch (mm) L Max.	D Max.	H Max.	S Norm.
AW	.78 (20)	.51 (13)	.87 (22)	.69 (17.5)
AX	.59 (15)	.83 (21)	1.22 (31)	.49 (12.5)
AY	.98 (25)	.83 (21)	1.22 (31)	.89 (22.5)

RESISTANCE VALUE CHART

2.5W Value (Code)	3.5W Value (Code)	4.5W Value (Code)
4.7 (47G)	1.0 (10G)	2.2 (22G)
6.8 (68G)	2.2 (22G)	3.3 (33G)
10 (100)	3.3 (33G)	4.7 (47G)
15 (150)	4.7 (47G)	10 (100)
22 (220)	10 (100)	15 (150)
33 (330)	22 (220)	22 (220)
47 (470)	33 (330)	33 (330)
56 (560)	47 (470)	39 (390)
68 (680)	68 (680)	47 (470)
100 (101)	100 (101)	68 (680)
		100 (101)

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	50	250
4.7 - 100	2.5W	AW(Code)K-ND	8.45	8.03	7.61
1.0 - 100	3.5W	AX(Code)K-ND	9.25	8.79	8.33
2.2 - 100	4.5W	AY(Code)K-ND	9.75	9.26	8.78

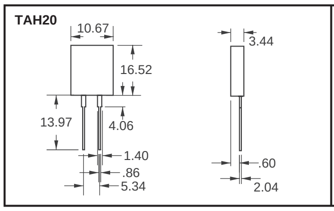
*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

OHMITE

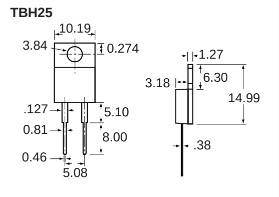
TO220 Style Thick Film Power Resistors - Heat Sink Mountable

TAH20, TBH25, TCH35 and Surface Mount Series TDH35

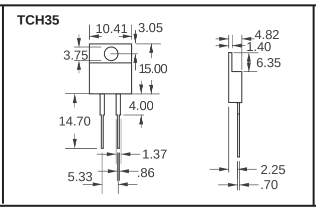
TAH20



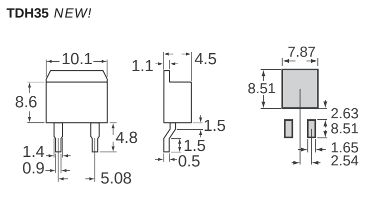
TBH25



TCH35



TDH35 *NEW!*



TAH20 and TCH35 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.05• (R050)•	3.3 (3R30)	47 (47R0)	750 (750R)
.10 (R100)	3.9 (3R90)	51 (51R0)	1.0K (1K00)
.22 (R220)	5.6 (5R60)	75 (75R0)	2.7K (2K70)
.33 (R330)	7.5• (7R50)•	100 (100R)	5.1K (5K10)
.51 (R510)	10 (10R0)	150 (150R)	10K (10K0)
1.0 (1R00)	15 (15R0)	220 (220R)	
1.5 (1R50)	22 (22R0)	470 (470R)	
2.2 (2R20)	33 (33R0)	510 (510R)	

TBH25 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
.10‡ (R100)‡	22 (22R0)	100 (100R)
.15 (R150)	24 (24R0)	150 (150R)
5.1 (5R10)	33 (33R0)	470 (470R)
5.6 (5R60)	39 (39R0)	1.0K (1K00)
7.5 (7R50)	47 (47R0)	1.5K (1K50)
10 (10R0)	51 (51R0)	2.7 (2K70)
15 (15R0)	75 (75R0)	

TDH35 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	1.0 (1R00)	33 (33R0)	300 (300R)
.15 (R150)	2.0 (2R00)	39 (39R0)	500 (500R)
.20 (R200)	3.0 (3R00)	47 (47R0)	750 (750R)
.25 (R250)	5.0 (5R00)	68 (68R0)	1.0K (1K00)
.30 (R300)	7.5 (7R50)	75 (75R0)	1.5K (1K50)
.36 (R360)	10 (10R0)	100 (100R)	2.5K (2K50)
.47 (R470)	15 (15R0)	150 (150R)	3.0K (3K00)
.50 (R500)	20 (20R0)	200 (200R)	5.0K (5K00)
.75 (R750)	25 (25R0)	250 (250R)	

• Not available in the TCH35 Series. ‡ Not recommended for new design.

Electrical Specifications:

Series	TAH20	TBH25	TCH35/TDH35
Res. Tolerance	±5%	±5%	±5%
Max. Operating Volt.	350V	350V	350V
Dielectric Strength	1800VAC	1000VDC	1800VAC
Insulation Res.	10GΩ Min.	10GΩ Min.	10GΩ Min.
Power Rating	20W @ 25°C	25W @ 25°C	35W @ 25°C
Mounting	Requires use of a snap-on heat sink. A thermal compound should be properly applied.	Single screw mounting tab (with thermal compound recommended).	Single screw mounting tab (with thermal compound recommended). TDH35 (SMT)

Series	Res. Range (Ω)	Watt-age	Digi-Key* Part No.	Price Each 1	100	250
TAH20	.05 - .51	20	TAH20P(Code)J-ND	6.73	5.38	4.57
	1.00 - 10K	20	TAH20P(Code)J-ND	5.50	4.39	3.73
TBH25	.10 - .15	25	TBH25P(Code)J-ND	5.23	4.18	3.55
	5.1 - 10	25	TBH25P(Code)J-ND	4.88	3.90	3.32
	15 - 2.7K	25	TBH25P(Code)J-ND	4.80	3.84	3.26
TCH35	.10 - .51	35	TCH35P(Code)J-ND	7.78	6.21	5.28
	1.00 - 10K	35	TCH35P(Code)J-ND	5.90	4.71	4.00
TDH35	.10 - .15	35	TDH35P(Code)J-ND *NEW!*	8.78	6.06	5.56
	.20 - .36	35	TDH35P(Code)J-ND *NEW!*	8.17	5.66	5.18
	.47 - .50	35	TDH35P(Code)J-ND *NEW!*	7.16	5.06	4.54
	.75 - 7.5	35	TDH35P(Code)J-ND *NEW!*	6.86	4.88	4.35
	10 - 5.0K	35	TDH35P(Code)J-ND *NEW!*	6.50	4.46	4.12

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

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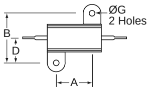
89 Type - Aluminum Housed Axial Lead Wirewound Resistors

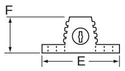
The 89 Type are high performance axial-lead-type resistors. They are better suited to withstand vibration, shock and harsh environmental conditions than standard axial-lead resistors. The 89 Type are aluminum housed to maintain high stability during operation and to permit secure mounting to chassis surfaces. The housing also provides heat-sinking capabilities. The 89 Type resistors meet or exceed MIL-R-18546 specifications.

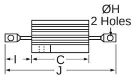
Electrical Specifications

	5 Watt	10 Watt	25 Watt	50 Watt
Resistance Tolerance	±1%	±1%	±1%	±1%
Power Rating* (mm) Proper Heat	101.60 x 152.40 x 50.80 x 1.02 aluminum chassis		127.00 x 177.80 x 50.80 x 1.02 aluminum chassis	304.80 x 304.80 x 1.50 aluminum panel
Max. Operating Voltage	210	320	520	1170
Overload	5 times rated power for 5 seconds			
Temperature Coefficient	Under 1 ohm — ±90 ppm/°C 1 to 9.99 ohms — ±50 ppm/°C 10 ohms and over — ±20 ppm/°C			
Dielectric With-standing Voltage	1000VAC	1000VAC	2500VAC	2500VAC

* Based on chassis mounting area and temperature stability.







Watts	Max. Dimensions (mm) A	B	C	D	E	F	G	H	I	J
5	11.40	12.57	16.03	6.30	16.79	8.51	2.49	1.40	8.33	30.15
10	14.40	16.00	19.84	8.00	20.70	10.29	2.49	2.31	9.50	36.50
25	18.39	19.96	27.76	10.01	27.81	14.25	3.30	2.31	12.70	50.80
50	39.83	21.56	50.77	10.79	29.34	15.88	3.30	2.31	12.70	72.21

RESISTANCE VALUE CHART

5 Watt Value (Code)	5 Watt Value (Code)	10 Watt Value (Code)	10 Watt Value (Code)	25 Watt Value (Code)	25 Watt Value (Code)	50 Watt Value (Code)	50 Watt Value (Code)
1.0 (1R0)	75 (75R)	1.0 (1R0)	250 (250)	.10 (R10)	100 (100)	.10 (R10)	150 (150)
2.0 (2R0)	100 (100)	2.0 (2R0)	500 (500)	1.0 (1R0)	150 (150)	1.0 (1R0)	250 (250)
5.0 (5R0)	150 (150)	5.0 (5R0)	750 (750)	2.0 (2R0)	250 (250)	2.0 (2R0)	500 (500)
7.5 (7R5)	250 (250)	10 (10R)	1.0K (1K0)	5.0 (5R0)	500 (500)	5.0 (5R0)	750 (750)
10 (10R)	500 (500)	15 (15R)	2.5K (2K5)	7.5 (7R5)	750 (750)	10 (10R)	1.0K (1K0)
15 (15R)	750 (750)	20 (20R)	5.0K (5K0)	10 (10R)	1.0K (1K0)	15 (15R)	2.5K (2K5)
25 (25R)	1.0K (1K0)	50 (50R)	10.0K (10K)	20 (20R)	2.5K (2K5)	25 (25R)	5.0K (5K0)
40 (40R)	2.5K (2K5)	75 (75R)	25.0K (25K)	25 (25R)	5.0K (5K0)	40 (40R)	10.0K (10K)
50 (50R)	5.0K (5K0)	100 (100)		50 (50R)	10.0K (10K)	50 (50R)	25.0K (25K)
				75 (75R)	25.0K (25K)	75 (75R)	100K (100K)
						100 (100)	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	50	100
1.0 - 25	5	805F(Code)-ND	3.45	3.11	2.76	2.59
40 - 750	5	805F(Code)-ND	3.78	3.40	3.02	2.84
1.0K - 2.5K	5	805F(Code)-ND	4.69	4.22	3.75	3.52
5.0K	5	805F(Code)-ND	5.24	4.72	4.19	3.93
1.0 - 750	10	810F(Code)-ND	3.62	3.26	2.90	2.72
1.0K - 2.5K	10	810F(Code)-ND	4.00	3.60	3.20	3.00
5.0K	10	810F(Code)-ND	4.49	4.04	3.59	3.37
10.0K	10	810F(Code)-ND	5.15	4.64	4.12	3.86
25.0K	10	810F(Code)-ND	6.47	5.82	5.18	4.85
.10	25	825F(Code)-ND	5.15	4.64	4.12	3.86
1.0 - 75	25	825F(Code)-ND	4.66	4.19	3.73	3.50
100 - 750	25	825F(Code)-ND	4.80	4.32	3.84	3.60
1.0K - 5.0K	25	825F(Code)-ND	5.38	4.84	4.30	4.04
10.0K	25	825F(Code)-ND	5.91	5.32	4.73	4.43
25.0K	25	825F(Code)-ND	7.40	6.66	5.92	5.55
.10	50	850F(Code)-ND	6.55	5.90	5.24	4.91
1.0 - 750	50	850F(Code)-ND	5.38	4.84	4.30	4.04
1.0K - 5.0K	50	850F(Code)-ND	6.09	5.48	4.87	4.57
10.0K	50	850F(Code)-ND	6.42	5.78	5.14	4.82
25.0K	50	850F(Code)-ND	7.23	6.51	5.78	5.42
100K	50	850F(Code)-ND	9.81	8.83	7.85	7.36

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

TAP600 Heat Sinkable Planar Resistors - 600 Watt

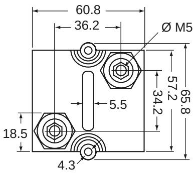
TAP600 delivers 600 watts of reliable power to a variety of power conditioning, power transmission, and power control applications. These resistors can be used designed for liquid, or air cooled heat sink systems used in variable speed drives, power supplies, robotics, motor control, and other control devices.

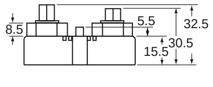
Features:

• Dielectric Strength: Up to 12KV • Special Design for Low Inductive and Capacitance Values • Easy termination to contacts with M5 screws • Calibrated Mounting Simplifies Assembly

Electrical Specifications:

• Resistance Tolerance: ±10% Std. • Max. Operating Voltage: 5000VDC • Power Rating: 600W at 70°C heat sink temperature • Temperature Coefficient: ±150ppm/°C • Operating Temperature Range: -55°C to 150°C • Electric Strength Voltage: Up to 12000Vrms, 50HZ, 1min. @ 500V • Insulation Resistance: 10G ohms min at 500V • Air Distance: 14mm min. • Inductance: ≤ 80nH





RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R0)	5 (5R0)	50 (50R)	1000 (1K0)
2 (2R0)	10 (10R)	75 (75R)	10000 (10K)
3 (3R0)	22 (22R	100 (100)	
4 (4R0)	30 (30R)	500 (500)	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	25	50
1-10000 (See Chart)	600W	TAP600K(Code)-ND	103.30	80.39	73.69	63.80

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

OHMITE®

TAP1000 Heat Sinkable Planar Resistors - 1000 Watt

TAP1000 Series resistors deliver 1000 watts of continuous power with thick film on alumina substrate technology. Up to 30% smaller, the TAP1000 is capable of 2 to 4 times the power dissipation of traditional heat sinkable resistor technologies. Designed for use with liquid cooled heat sinks, TAP1000 resistors are capable of dissipating 1000 watts of continuous power when properly mounted (based on 70°C base temperature).

Offering the highest power available in a heat sinkable package, the TAP1000 is well suited for power conditioning, power distribution, power conversion, and power control applications. Constructed of durable, lightweight materials, the TAP1000 package is easy to design and mount.

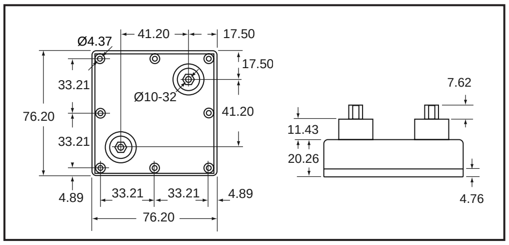
Features: • Dissipates 1000 Watts @ 70°C Mounting Plate Temperature • High Energy Rating • Low Inductance • Resistor Element Electrically Isolated • High Dielectric Strength • Small Footprint

Applications: • Power semiconductor balancing • Motor control • Inrush current limiting

Material Specifications: Resistor element - thick film on alumina substrate

Electrical Specifications: • Resistance Tolerance: ±10% Std. • Max. Operating Voltage: 2000VDC • Power Rating: 1000W @70°C • Temperature Coefficient: ±250 ppm/°C • Dielectric Strength: 6KV • Operating Temperature Range: -55°C to 150°C

Case Specifications: • Terminal Screws (#10 - 32), Max Contacts Torque: 10 in-lb. • Mounting Screws (#8 - 32), Max Mounting Torque: 15 in-lb.



RESISTANCE VALUE CHART

Value (Code)
2.5 (2R50)
3.0 (3R00)
5.0 (5R00)
8.0 (8R00)
10 (10R0)
15 (15R0)
25 (25R0)
30 (30R0)
50 (50R0)

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	25	50
2.5-50 (see chart)	1000W	TA1K0PH(Code)K-ND	115.00	85.00	78.00	70.01

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

TL88 Series - Heat Sinkable Thick Film Power Resistors

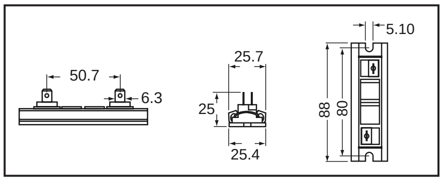
The TL88 Series add heat sinkable options to the thick film resistor family. The resistor element is packaged with plastic insulators, and quick-connect terminals in a symmetrical aluminum profile for easy heat sink mounting. Self-insulating package design increases voltage withstanding characteristics when compared to traditional aluminum housings. The in-line mounting profile makes the TL88 Series easily adaptable to most heat sink systems. Thermal compound is always recommended when heat sinking.

Features: • Very low inductance • Low profile design • In-Line Mounting Profile • 1/4" Quick connect terminals

Applications: • Semiconductor Balancing • Frequency Converters • Snubber • In-Rush Current Limiter • Bleeder Resistor • Power Switching • Voltage Dividers

Material Specifications: • Resistive Element: Thick film on alumina • Housing: Aluminum • Insulators: Glass reinforced high temperature Valox® • Terminals: Tinned brass

Electrical Specifications: • Tolerance: ± 10% Std. • Temperature Coefficient: ±250PPM • Working Voltage: 1200VAC • Temperature Limits: -40°C to +125°C • Air Distance, Terminal to Ground: 7mm • Inductance: 50-100nH • Max. Voltage Between Termwinal: 2500V



RESISTANCE VALUE CHART

Value (Code)	Value (Code)
1 (1R00)	47 (47R0)
3 (3R00)	50 (50R0)
5 (5R00)	75 (75R0)
10 (10R0)	100 (100R)
15 (15R0)	240 (240R)
25 (25R0)	470 (470R)
33 (33R0)	

Resistance Range (Ohms)	Wattage†	Digi-Key* Part No.	Price Each 1	10	50	100
1-470 (see chart)	114W	TL88K(Code)-ND	52.80	44.00	17.60	13.20

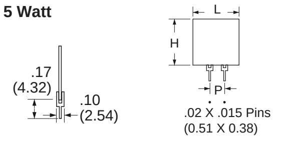
* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).
† Standard wattage for properly heat sinked resistors.

TA Series Power Chip® Resistors - Thick Film on Alumina Substrate 5, 10 and 25 Watt

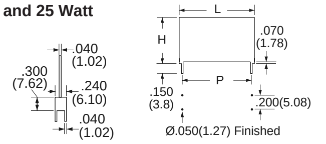
Ohmite Power Chip Resistors are thick film on alumina oxide substrates with copper plated silver conductors, Ruthenium oxide resistance material, and a glass passivation layer. These resistors offer very low inductance (50nh measured at 1MHz) and outstanding power density (10W/in2). Repetitive transient capability is 5 times rated power as long as one second average dissipation remains equal to or less than the free air rating.

Features: • Wide resistance range • Low inductance • High power density • Easy to install. PC-mountable. **Material:** • Terminals: Solder Plated Phosphor Bronze • Coating: Glass. **Electrical:** • Resistance Tolerance: ±5% • Power Rating: Based on 25°C free air with linear derating to 0 watts at 350°C • Maximum Operating Voltage: 350VAC, 500VDC through glass 1000VAC, 1500VDC through substrate • Overload: Five times rated power, as long as the one second average dissipation does not exceed the wattage rating • DR: ±2%, 2000 hours • Derating: Linearly from 100% @ +25°C to 0% @ 350°C

5 Watt



10 and 25 Watt



Series	Maximum Dim. - Inch (mm) P	L (Length)	H (Height)
TA205	.200 (5.08)	.50 (12.70)	1.00 (25.40)
TA810	.800 (20.32)	1.00 (25.40)	1.00 (25.40)
TA025	1.90 (48.3)	2.220 (56.39)	1.170 (29.70)

RESISTANCE VALUE CHART

5 Watt Value (Code)	5 Watt Value (Code)	5 Watt Value (Code)	10 Watt Value (Code)	10 Watt Value (Code)	25 Watt Value (Code)
1.0 (1R00)	15 (15R0)	200 (200R)	1.0 (1R00)	100 (100R)	2.0 (2R00)
1.2 (1R20)	18 (18R0)	240 (240R)	1.5 (1R50)	150 (150R)	3.0 (3R00)
1.5 (1R50)	20 (20R0)	300 (300R)	2.0 (2R00)	200 (200R)	3.9 (3R90)
1.8 (1R80)	24 (24R0)	330 (330R)	3.0 (3R00)	300 (300R)	5.1 (5R10)
2.0 (2R00)	30 (30R0)	390 (390R)	3.9 (3R90)	390 (390R)	8.2 (8R20)
2.4 (2R40)	33 (33R0)	470 (470R)	5.1 (5R10)	510 (510R)	20 (20R0)
3.0 (3R00)	39 (39R0)	510 (510R)	6.8 (6R80)	680 (680R)	30 (30R0)
3.3 (3R30)	47 (47R0)	560 (560R)	8.2 (8R20)	820 (820R)	39 (39R0)
3.9 (3R90)	51 (51R0)	680 (680R)	10 (10R0)	1K (1K00)	51 (51R0)
4.7 (4R70)	56 (56R0)	820 (820R)	15 (15R0)	1.5K (1K50)	82 (82R0)
5.1 (5R10)	68 (68R0)	1K (1K00)	20 (20R0)	2.0K (2K00)	200 (200R)
5.6 (5R60)	82 (82R0)	1.2K (1K20)	30 (30R0)		300 (300R)
6.8 (6R80)	100 (100R)	1.5K (1K50)	39 (39R0)		390 (390R)
8.2 (8R20)	120 (120R)	1.8K (1K80)	51 (51R0)		510 (510R)
10 (10R0)	150 (150R)	2K (2K00)	68 (68R0)		820 (820R)
12 (12R0)	180 (180R)	2.4K (2K40)	82 (82R0)		2.0K (2K00)

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	50	100	500
1.0-8.2 10-2.4K	5 5	TA205PA(Code)J-ND TA205PA(Code)J-ND	1.50 1.50	1.28 1.28	1.05 1.05	.90 .90
1.0-2.0K	10	TA810PW(Code)J-ND	3.50	2.80	2.00	1.85
2.0-2K	25	TA025PW(Code)J-ND	5.85	5.20	4.39	3.22

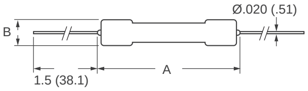
* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Metal Oxide / Epoxy Coated Resistors

"Mini-Mox" Precision Thick Film Resistors

Applications:

- Avionics
- Medical Electronics
- High Gain Feedback Applications
- Current Pulse Limiters
- Vacuum and Space Application



Series	Dim. Inches (mm) A ±.015"	B Max.
MOX-200	0.300 (7.62)	0.105 (2.67)
MOX-300	0.435 (11.05)	0.145 (3.68)
MOX-400-23	0.580 (14.78)	0.165 (4.19)
MOX-750-23	0.880 (22.35)	0.165 (4.19)
MOX1125-23	1.270 (32.26)	0.165 (4.19)

Material:

- Resistor: Metal Oxide
- Coating: Epoxy
- Core: Alumina
- Terminals: Solder-Coated Axial Lead

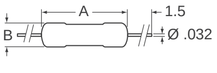
Electrical:

- Voltage Rating: 500V
- Operating Temperature: -55°C to +220°C
- Dielectric Withstanding Voltage: 750 Volts

Resistance Range (Ω)	Tol.	Watt-age	Digi-Key Part No.	Price Each 1	10	50	100
10M 100M 1,000M	1%	.25	MOX200F-10M-ND MOX200F-100M-ND MOX200F-1000M-ND	2.51 4.28 14.63	2.18 3.71 11.70	1.74 2.31 7.60	1.15 1.74 7.42
	5%	.25	MOX200J-10M-ND MOX200J-100M-ND MOX200J-1000M-ND	2.03 3.04 3.68	1.76 2.64 2.94	1.50 1.65 2.65	.92 1.15 2.07
	1%	.50	MOX300F-10M-ND MOX300F-100M-ND MOX300F-1000M-ND	4.28 5.03 13.73	3.06 3.77 7.94	2.20 2.71 6.05	1.82 1.89 5.07
	5%	.50	MOX300J-10M-ND MOX300J-100M-ND MOX300J-1000M-ND	3.49 3.56 6.04	2.49 2.49 3.54	1.80 1.80 2.66	1.50 1.50 2.24
	1%	.75	MOX400F-(Value)-ND	7.09	4.15	3.23	2.67
	5%	.75	MOX400J-(Value)-ND	4.80	3.10	2.33	1.83
	1%	1.0	MOX750F-(Value)-ND	7.80	4.62	3.65	3.08
	5%	1.0	MOX750J-(Value)-ND	5.29	3.54	2.56	2.01
	1%	1.5	MOX1125F-(Value)-ND	10.31	5.37	4.52	3.90
	5%	1.5	MOX1125J-(Value)-ND	6.86	3.93	2.93	2.63

Precision Thick Film Resistors - Maxi-Mox Series

Applications:
• HV power supplies • Power distribution
• Medical instrumentation • Avionics
Material:
• Core: Alumina • Resistor: Thick Film
Electrical:
• Operating Temperature: -55°C to +220°C



Series	Maximum Dimensions Inch (mm) A	B
MOX-1-12	1.12 (28.45)	0.31 (7.87)
MOX-2-12	2.12 (53.85)	0.31 (7.87)

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.	Price Each 1	10	50	100
10M 100M 1,000M	1% 5%	2.5 2.5	MOX1F-(Value)-ND MOX1J-(Value)-ND	7.35 6.64	3.73 3.37	3.35 3.02	2.68 2.42
	1% 5%	5 5	MOX2F-(Value)-ND MOX2J-(Value)-ND	10.05 9.08	5.11 4.61	4.60 4.15	3.68 3.32

OHMITE®

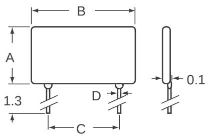
Precision Thick Film Planar Resistors - Slim-Mox Series

Features:
- High dielectric and low outgassing epoxy coating
- Low resistor noise
- Non inductive

Applications:
- HV power supplies
- Medical instrumentation
- Current pulse limiters
- Ionization chambers

Material:
- Resistor: Thick film on Alumina

Electrical:
- Operating Temperature: -55°C to +110°C



RESISTANCE VALUE CHART
1, 1.5, 2 Watt, 1%

Value	Value	Value
10M	100M	1000M

RESISTANCE VALUE CHART
1.5 Watt, 5%

Value	Value	Value
10M	100M	1000M

RESISTANCE VALUE CHART
1, 2 Watt, 5%

Value	Value	Value	Value
1K	20K	250K	2.5M
2.5K	25K	500K	5M
5K	50K	750K	10M
7.5K	75K	1M	25M
10K	100K	1.25M	50M
12.5K	125K	1.5M	100M
15K	150K	1.75M	1000M
17.5K	200K	2M	

Series	Dimensions Inch (mm) A max.	B max.	C ±.025	D ±.002
SLIM-MOX102	0.34 (8.64)	0.58 (14.73)	0.40 (10.16)	0.032 (.813)
SLIM-MOX104	0.34 (8.64)	1.08 (27.43)	0.90 (22.86)	0.032 (.813)
SLIM-MOX204	0.59 (14.99)	1.08 (27.43)	0.90 (22.86)	0.032 (.813)

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.	Price Each 1	10	50	100
1K - 1000M	5%	1	SM102J-(Value)-ND	4.16	3.67	3.00	1.89
10M - 1000M	1%	1	SM102F-(Value)-ND	4.43	3.83	3.20	2.08
10M - 1000M	5%	1.5	SM104J-(Value)-ND	3.75	3.30	2.75	1.64
10M - 1000M	1%	1.5	SM104F-(Value)-ND	4.54	3.96	3.30	2.14
1K - 1000M	5%	2	SM204J-(Value)-ND	5.89	3.93	3.14	2.36
10M - 1000M	1%	2	SM204F-(Value)-ND	6.90	4.71	3.92	2.80

NEW! Precision Current Sense Resistors - CS3 Series

The resistor family line CS3, utilizes state-of-the-art technology to provide a highly reliable resistor with a non inductive design. This makes the CS3 resistor ideal for many current monitoring and controls applications.

Features:
- Values beginning at 1mΩ
- Non Inductive Design
- Four terminal Kelvin connection
- 100% QC measurement

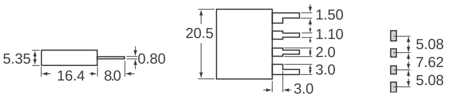
Specifications:

Material: • Terminal Material: Kelvin Terminals; silver plated & tinned • Encapsulation: Polyester over resistance element

Electrical: • Resistance Tolerances: 1% • Temperature Coefficient: TC referenced to 25°C, ΔR taken at 15°C and +105°C, 60ppm/°C • Power Rating: 3W at 70°C max. 40Amp permanent

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
.001 (R001)	.010 (R010)	.030 (R030)
.002 (R002)	.015 (R015)	.036 (R036)
.003 (R003)	.020 (R020)	.050 (R050)
.005 (R005)	.025 (R025)	



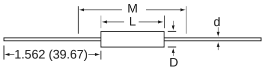
Resistance Range (Ohms)	Wattage	Digi-Key Part No.	Price Each 1	10	50
.001 - .050	3	CS3F(Code)-ND	10.13	9.00	7.88

10 Series - Molded Silicone Axial Lead Wire Element Resistors

Ideal for Current Sensing

Electrical Specifications:

• **Resistance Tolerance:** ±1% (F Type) • **Power Rating:** Based on 25°C free air rating • **Overload:** 5x rated power for 5 seconds • **Dielectric Withstanding Voltage:** 2 watt – 500 VRMS, 3 and 5 watt – 1000 VRMS • **Insulation Resistance:** Not less than 1000MΩ • **Temperature Range:** -55°C to 275°C



Watts	Maximum Dim. – mm D	L	d	M
2	2.64	10.57	.86	29.36
3	5.46	14.48	.86	33.27
5	8.64	23.50	1.07	42.55

RESISTANCE VALUE CHART

12F Series Value (Code)	13F Series Value (Code)	15F Series Value (Code)
.005 (R005)	.005 (R005)	.005 (R005)
.010 (R010)	.010 (R010)	.010 (R010)
.015 (R015)	.015 (R015)	.015 (R015)
.020 (R020)	.020 (R020)	.020 (R020)
.025 (R025)	.025 (R025)	.025 (R025)
.030 (R030)	.030 (R030)	.030 (R030)
.040 (R040)	.040 (R040)	.040 (R040)
.050 (R050)	.050 (R050)	.050 (R050)
.070 (R070)	.070 (R070)	.070 (R070)
	.100 (R100)	.100 (R100)
	.150 (R150)	.150 (R150)
	.200 (R200)	.200 (R200)
		.250 (R250)
		.300 (R300)

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	100	250
.005 - .020	2	12F(Code)-ND	1.56	1.40	1.25	1.17
.025 - .040	2	12F(Code)-ND	1.54	1.39	1.23	1.16
.050	2	12F(Code)-ND	1.45	1.31	1.16	1.09
.070	2	12F(Code)-ND	1.56	1.40	1.25	1.17
.005	3	13F(Code)-ND	1.55	1.40	1.24	1.16
.010 - .015	3	13F(Code)-ND	1.46	1.31	1.17	1.10
.020 - .030	3	13F(Code)-ND	1.40	1.26	1.12	1.05
.040 - .050	3	13F(Code)-ND	1.38	1.24	1.10	1.04
.070 - .200	3	13F(Code)-ND	1.55	1.40	1.24	1.16
.005	5	15F(Code)-ND	1.85	1.67	1.48	1.39
.010 - .030	5	15F(Code)-ND	1.79	1.61	1.43	1.34
.040 - .050	5	15F(Code)-ND	1.75	1.58	1.40	1.31
.070 - .300	5	15F(Code)-ND	1.72	1.55	1.38	1.29

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

60 Series - Metal Element Current Sensing Resistors

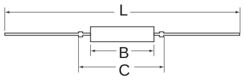
These non-inductive, 3-piece welded element resistors, offer a reliable low-cost alternative to conventional resistors.

Features:
- Low inductance
- Low cost
- Wirewound performance
- Flameproof

Material:
- Resistor: Nichrome resistive element
- Terminals: Copper clad steel or copper depending on style

Derating:
- Linearly from 100% @ +25°C to 0% @ +275°C

Electrical:
- Power rating: Based on 25°C ambient
- Overload: 5x rated power for 5 seconds
- Inductance: <10nh
- To calculate max amps; use the formula √P/R



RESISTANCE VALUE CHART

604HR Value (Code)	605HR Value (Code)	607HR Value (Code)	610HR Value (Code)	615HR Value (Code)	620HR Value (Code)	630HR Value (Code)
.01 (010) .02 (020) .025 (025)	.01 (010) .02 (020) .03 (030) .10 (100)	.005 (005) .050 (050)	.005 (005) .010 (010) .020 (020) .030 (030) .050 (050)	.010 (010) .020 (020) .030 (030)	.005 (005)	.010 (010) .025 (025) .050 (050)

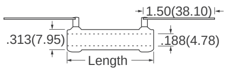
Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.	Price Each 1	100	1,000
.01 - .025	3%	.375	604HR(Code)-ND	.42	.36	.29
.01 - .10	3%	.50	605HR(Code)-ND	.42	.36	.29
.005 - .050	3%	.75	607HR(Code)-ND	.42	.36	.29
.005 - .050	3%	1	610HR(Code)-ND	.42	.36	.29
.010 - .030	3%	1.5	615HR(Code)-ND	.42	.36	.29
.005	3%	2	620HR(Code)-ND	.42	.36	.29
.010 - .050	3%	3	630HR(Code)-ND	.42	.36	.29

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

Part Number	Dimensions - inches L	B max.	C	Lead Ga.
604HR010	3.530	.250	.559	22
604HR020	3.530	.250	.559	22
604HR025	3.530	.250	.559	22
605HR010	3.685	.330	1.310	20
605HR020	3.685	.330	1.310	20
605HR030	3.685	.330	1.310	20
605HR100	3.981	.700	1.675	18
607HR050	3.587	.650	1.106	20
607HR005	3.674	.320	1.310	20
610HR005	3.587	.650	1.106	20
610HR010	3.587	.650	1.106	20
610HR020	3.587	.650	1.106	20
610HR030	3.587	.650	1.106	20
610HR050	3.981	.750	1.675	18
615HR010	3.981	.750	1.675	18
615HR020	3.981	.750	1.675	18
615HR030	3.981	.750	1.675	18
620HR005	3.981	.650	1.675	18
630HR010	3.000	.750	1.310	18
630HR025	3.384	1.264	1.694	18
630HR050	3.900	1.780	2.210	18

Vitreous Enamel Power Resistors

8 and 12 Watt



	B8J	B12J
Max. Voltage	250	625
Overload	10 times rated wattage for 5 seconds	
Length	1.000” (25.40mm)	1.750” (44.45mm)

RESISTANCE VALUE CHART

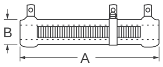
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.0 (2R0)	75 (75R)	600 (600)	3.5K (3K5)	12.0K (12K)
3.0 (3R0)	100 (100)	750 (750)	4.0K (4K0)	15.0K (15K)
5.0 (5R0)	125 (125)	900 (900)	4.5K (4K5)	20.0K (20K)
7.5 (7R5)	150 (150)	1.0K (1K0)	5.0K (5K0)	25.0K (25K)
10 (10R)	200 (200)	1.2K (1K2)	6.0K (6K0)	40.0K (40K)
15 (15R)	250 (250)	1.25K (1K25)	7.0K (7K0)	50.0K (50K)
20 (20R)	300 (300)	1.5K (1K5)	7.5K (7K5)	
25 (25R)	400 (400)	2.0K (2K0)	8.0K (8K0)	
35 (35R)	450 (450)	2.5K (2K5)	9.0K (9K0)	
50 (50R)	500 (500)	3.0K (3K0)	10.0K (10K)	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	25	100	250
5.0 - 7.5	8	B8J(Code)-ND	2.88	2.59	2.30	2.02
10 - 500	8	B8J(Code)-ND	2.78	2.50	2.22	1.95
600 - 1.0K	8	B8J(Code)-ND	2.58	2.32	2.06	1.81
2.0K - 9.0K	8	B8J(Code)-ND	2.63	2.37	2.10	1.84
10.0K	8	B8J(Code)-ND	2.85	2.57	2.28	2.00
2.0 - 7.5	12	B12J(Code)-ND	2.78	2.50	2.22	1.95
10 - 900	12	B12J(Code)-ND	2.46	2.21	1.97	1.72
1.0K - 1.5K	12	B12J(Code)-ND	2.67	2.40	2.14	1.87
2.0K - 4.0K	12	B12J(Code)-ND	2.74	2.47	2.19	1.92
4.5K - 9.0K	12	B12J(Code)-ND	2.88	2.59	2.30	2.02
10.0K - 15.0K	12	B12J(Code)-ND	2.95	2.66	2.36	2.07
20.0K - 40.0K	12	B12J(Code)-ND	3.06	2.75	2.45	2.14
50.0K	12	B12J(Code)-ND	3.85	3.47	3.08	2.70

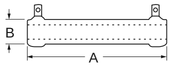
*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Vitreous Enamel Power Resistors 25, 50, 100, and 225 Watt

Adjustable with Tabs - Type 210
D25K, D50K, D100K, D225K



Fixed with Tabs - Type 270
L25J, L50J, L100J, L225J



RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	100 (100)	2.5K (2K5)
2.0 (2R0)	150 (150)	4.0K (4K0)
3.0 (3R0)	200 (200)	5.0K (5K0)
5.0 (5R0)	250 (250)	10.0K (10K)
10 (10R)	500 (500)	12.0K (12K)
25 (25R)	750 (750)	25.0K (25K)
50 (50R)	1.0K (1K0)	50.0K (50K)

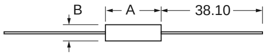
	L25J/D25K	L50J/D50K	L100J/D100K	L225J/D225K
Max. Volt.	625	1625	2845	4595
Overload	10 times rated wattage for 5 seconds			
DWV	1000VAC	1000VAC	1000VAC	3000VAC
Length A	2" (50.80mm)	4" (101.60mm)	6.5" (165.10mm)	10.5" (266.70mm)
Diameter B	.5625" (14.29mm)	.5625" (14.29mm)	.750" (19.05mm)	1.125" (28.58mm)

Resistance Range (Ohms)	Watt-age	Digi-Key* Part No.	Price Each 1	25	50	100
2.0-3.0	25	L25J(Code)-ND	4.80	4.08	—	3.36
10, 25, 100, 500, 750	25	L25J(Code)-ND	4.57	3.88	—	3.20
1.0K, 2.5K	25	L25J(Code)-ND	4.79	4.07	—	3.35
4.0K, 5.0K	25	L25J(Code)-ND	4.84	4.11	—	3.39
10.0K-12.0K	25	L25J(Code)-ND	5.80	4.93	—	4.06
25.0K	25	L25J(Code)-ND	5.80	4.93	—	4.06
50.0K	25	L25J(Code)-ND	6.23	5.30	—	4.36
Mtg. Bracket 25/50W‡	25	9-100-ND	.65	—	.33	.21
1.0	25	D25K(Code)-ND	8.94	7.60	—	6.26
3.0, 5.0, 10, 25, 50, 100, 250, 500	25	D25K(Code)-ND	7.60	6.46	—	5.32
1.0	50	L50J(Code)-ND	7.18	6.10	—	5.03
2.0-5.0	50	L50J(Code)-ND	6.73	5.72	—	4.71
10, 25, 50, 100, 500	50	L50J(Code)-ND	6.60	5.61	—	4.62
1.0K, 5.0K	50	L50J(Code)-ND	6.54	5.56	—	4.58
1.0-3.0	50	D50K(Code)-ND	12.70	10.80	—	8.89
5.0	50	D50K(Code)-ND	12.47	10.60	—	8.73
10, 25, 50	50	D50K(Code)-ND	10.87	9.24	—	7.61
100, 500	50	D50K(Code)-ND	10.87	9.24	—	7.61
1.0K	50	D50K(Code)-ND	11.37	9.66	—	7.96
1.0-2.0	100	L100J(Code)-ND	9.88	8.40	—	7.41
5.0	100	L100J(Code)-ND	9.50	8.08	—	7.13
10, 50	100	L100J(Code)-ND	9.00	7.65	—	6.75
100, 250	100	L100J(Code)-ND	8.80	7.48	—	6.60
1.0K	100	L100J(Code)-ND	8.46	7.19	—	6.35
1.0	100	D100K(Code)-ND	15.70	14.13	—	12.56
2.0,10	100	D100K(Code)-ND	15.29	13.76	—	12.23
50, 100, 250	100	D100K(Code)-ND	13.74	12.37	—	10.99
1.0K	100	D100K(Code)-ND	13.74	12.37	—	10.99
1.0	225	L225J(Code)-ND	28.05	25.25	—	22.44
5.0	225	L225J(Code)-ND	16.25	14.63	—	13.00
10, 50, 100	225	L225J(Code)-ND	14.10	12.69	—	11.28
250, 500	225	L225J(Code)-ND	13.45	12.11	—	10.76
1.0K	225	L225J(Code)-ND	13.00	11.70	—	10.40
1.0	225	D225K(Code)-ND	32.44	29.20	25.95	—
2.0-3.0	225	D225K(Code)-ND	27.52	24.77	22.02	—
5.0	225	D225K(Code)-ND	24.83	22.35	19.86	—
10, 25, 50	225	D225K(Code)-ND	22.11	19.90	17.69	—
100, 150, 200, 250, 500, 1.0K	225	D225K(Code)-ND	18.67	16.80	14.94	—
Mtg. Bracket 100W‡	100	12-100-ND	1.40	—	.71	.45
Mtg. Bracket 200W‡	200	18-100-ND	1.47	—	.74	.47

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ‡ Requires 2 brackets per resistor.

NOTE: *Not all values are stocked at all wattages. Please see chart.*

Silicone - Ceramic Conformal Wirewound Resistors



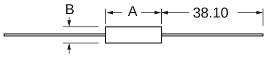
Resistor Series	Power Rating	Max. Length A (mm)	Max. Dia. B (mm)	Lead Dia. C (mm)
41F	1W	11.10	3.18	.51
43F	3W	15.06	5.54	.81
45F	5W	23.80	8.71	1.02

Electrical Specifications:

	41F Series	43F Series	45F Series
Resistance Tolerance	±1%	±1%	±1%
Power Rating	1 watt at 25°C ambient temperature	3 watts at 25°C ambient temperature	5 watts at 25°C ambient temperature
Temperature Coefficient of Resistance	Under 1 ohm — ±90ppm/°C 1 to 9.99 ohms — ±50ppm/°C 10 ohms and over — ±20ppm/ °C		
Dielectric Withstanding Voltage	500 VAC	1000 VAC	1000 VAC
Short Time Overload	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Resistance Range (Ω)	Watt-age	Digi-Key* Part No.	Price Each 1	25	100	250
.33	1	41F(Code)-ND	2.30	1.96	1.73	1.50
1.0-5.0	1	41F(Code)-ND	2.22	1.89	1.67	1.44
10-68	1	41F(Code)-ND	1.92	1.63	1.44	1.25
100-470	1	41F(Code)-ND	2.15	1.83	1.61	1.40
500-900	1	41F(Code)-ND	2.38	2.02	1.79	1.55
1.0K-1.2K	1	41F(Code)-ND	2.71	2.30	2.03	1.76
2.0K-3.0K	1	41F(Code)-ND	3.26	2.77	2.45	2.12
.10-.75	3	43F(Code)-ND	1.76	1.50	1.32	1.14
1.0-5.0	3	43F(Code)-ND	1.40	1.19	1.05	.91
10-82	3	43F(Code)-ND	1.14	.97	.86	.74
100-900	3	43F(Code)-ND	1.04	.88	.78	.68
1.0K-1.8K	3	43F(Code)-ND	1.19	1.01	.89	.77
2.2K-2.7K	3	43F(Code)-ND	1.58	1.34	1.19	1.03
3.5K-4.7K	3	43F(Code)-ND	1.91	1.62	1.43	1.24
5.0K-6.8K	3	43F(Code)-ND	2.30	1.96	1.73	1.50
7.5K-10.0K	3	43F(Code)-ND	2.38	2.02	1.79	1.55
.10-.50	5	45F(Code)-ND	1.97	1.67	1.48	1.28
1.0-7.5	5	45F(Code)-ND	1.37	1.16	1.03	.89
10-50	5	45F(Code)-ND	1.19	1.01	.89	.77
100-900	5	45F(Code)-ND	1.14	.97	.86	.74
1.0K-2.7K	5	45F(Code)-ND	1.32	1.12	.99	.86
3.0K-6.8K	5	45F(Code)-ND	1.54	1.31	1.16	1.00
7.5K-8.0K	5	45F(Code)-ND	2.02	1.72	1.52	1.31
10.0K-15.0K	5	45F(Code)-ND	2.14	1.82	1.61	1.39
20.0K-25.0K	5	45F(Code)-ND	2.65	2.25	1.99	1.72

Vitreous Enamel Conformal Wirewound Resistors



Resistor Series	Power Rating	Max. Length A (mm)	Max. Dia. B (mm)	Lead Dia. C (mm)
23J	3W	12.70	5.59	.81
25J	5W	23.01	7.01	.81
20J	10W	46.84	10.01	.81

Electrical Specifications:

	23J Series	25J Series	20J Series
Resistance Tolerance	±5%	±5%	±5%
Power Rating	3W	5W	10W
Dielectric Withstanding Voltage	1000V	1000V	1000V
Short Time Overload	5 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Resistance Range (Ω)	Watt-age	Digi-Key* Part No.	Price Each 1	50	100	250
.15-.75	3	23J(Code)-ND	1.82	1.55	1.37	1.18
1.0-7.5	3	23J(Code)-ND	1.20	1.02	.90	.78
10-82	3	23J(Code)-ND	1.07	.91	.80	.70
100-450	3	23J(Code)-ND	.97	.82	.73	.63
470-900	3	23J(Code)-ND	1.06	.90	.80	.69
1.0K-4.7K	3	23J(Code)-ND	1.44	1.22	1.08	.94
5.0K-7.0K	3	23J(Code)-ND	1.85	1.57	1.39	1.20
7.5K-10.0K	3	23J(Code)-ND	2.15	1.83	1.61	1.40
.15-.75	5	25J(Code)-ND	1.50	1.28	1.13	.98
1.0-7.5	5	25J(Code)-ND	1.44	1.22	1.08	.94
10-82	5	25J(Code)-ND	1.37	1.16	1.03	.89
100-470	5	25J(Code)-ND	1.13	.96	.85	.73
500-900	5	25J(Code)-ND	1.32	1.12	.99	.86
1.0K-4.7K	5	25J(Code)-ND	1.58	1.34	1.19	1.03
5.0K-9.0K	5	25J(Code)-ND	1.99	1.69	1.49	1.29
10.0K-15.0K	5	25J(Code)-ND	2.20	1.87	1.65	1.43
16.0K-25.0K	5	25J(Code)-ND	2.60	2.21	1.95	1.69
.10-.75	10	20J(Code)-ND	1.96	1.67	1.47	1.27
1.0-5.0	10	20J(Code)-ND	1.90	1.62	1.43	1.24
10-82	10	20J(Code)-ND	1.78	1.51	1.34	1.16
100-680	10	20J(Code)-ND	1.62	1.38	1.22	1.05
1.0K-2.7K	10	20J(Code)-ND	1.94	1.65	1.46	1.26
3.0K-4.7K	10	20J(Code)-ND	2.21	1.88	1.66	1.44
5.0K-8.5K	10	20J(Code)-ND	2.53	2.15	1.90	1.64
10.0K-22.5K	10	20J(Code)-ND	2.88	2.45	2.16	1.87
25.0K	10	20J(Code)-ND	3.25	2.76	2.44	2.11

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

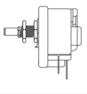
RESISTANCE VALUE CHART (for Silicone and Vitreous Wirewound Resistors)

Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)
.10	(R10)	4.0	(4R0)	35	(35R)	180	(180)	500	(500)	1.5K	(1K5)	4.5K•	(4K5)•	11.0K•	(11K)•
.13	(R13)	5.0	(5R0)	39	(39R)	200	(200)	560	(560)	1.75K•	(1K75)•	4.7K	(4K7)	12.0K•	(12K)•
.15	(R15)	7.5	(7R5)	40	(40R)	220	(220)	600	(600)	1.8K	(1K8)	5.0K	(5K0)	12.5K	(12K5)
.20	(R20)	10	(10R)	47	(47R)	225	(225)	680	(680)	2.0K	(2K0)	5.6K	(5K6)	13.5K•	(13K5)•
.25	(R25)	12	(12R)	50	(50R)	250	(250)	700	(700)	2.2K	(2K2)	6.0K	(6K0)	15.0K	(15K)
.30	(R30)	15	(15R)	56	(56R)	270	(270)	750	(750)	2.25K•	(2K25)•	6.8K	(6K8)	16.0K•	(16K)•
.33	(R33)	18	(18R)	68	(68R)	300	(300)	800	(800)	2.5K	(2K5)	7.0K•	(7K0)•	17.5K•	(17K5)•
.50	(R50)	20	(20R)	75	(75R)	330	(330)	820	(820)	2.7K	(2K7)	7.5K	(7K5)	18.0K•	(18K)•
.75	(R75)	22	(22R)	82	(82R)	350	(350)	900	(900)	3.0K	(3K0)	8.0K	(8K0)	20.0K	(20K)
1.0	(1R0)	25	(25R)	100	(100)	390	(390)	1.0K	(1K0)	3.3K•	(3K3)•	8.2K	(8K2)	22.0K•	(22K)•
1.5	(1R5)	27	(27R)	120	(120)	400	(400)	1.1K	(1K1)	3.5K	(3K5)	8.5K•	(8K5)•	22.5K•	(22K5)•
2.0	(2R0)	30	(30R)	125	(125)	450•	(450)•	1.2K	(1K2)	3.9K	(3K9)	9.0K•	(9K0)•	25.0K	(25K)
3.0	(3R0)	33	(33R)	150	(150)	470	(470)	1.25K•	(1K25)•	4.0K	(4K0)	10.0K	(10K)		

• Value not available in Silicone-Ceramic Conformal

Wirewound Rheostats

12-1/2, 25 and 50W



† 12-1/2 watt uses knob **5151-ND**

†† 25 and 50 watt uses knob **5150-ND**

	RES	RHS	RJS
Wattage	12-1/2 W†	25W††	50W††
Res. Tolerance	±10%	±10%	±10%
Core Diameter (mm)	22.23	39.69	58.74
Shaft Diameter (mm)	3.18	6.35	6.35
Running Torque	1 to 6 in. oz.	.25 to .5 in. lb.	.25 to 2 in. lb.
Weight	.6 oz.	.19 lbs.	.32 lbs.
Rotation	300° ±5%	300° ±5%	300° ±5%
Memcor-Truohm Equivalent	RH12	RH25	RH50

RESISTANCE VALUE CHARTS

12.5 / 25 Watt

Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)
1.0	(1R0)	15	(15R)	175	(175)	1.5K	(1K5)
2.0	(2R0)	25	(25R)	250	(250)	2.5K	(2K5)
3.0	(3R0)	50	(50R)	350	(350)	3.5K	(3K5)
6.0	(6R0)	75	(75R)	500	(500)	5.0K	(5K0)
8.0	(8R0)	100	(100)	750	(750)	10.0K	(10K)
10	(10R)	125	(125)	1.0K	(1K0)		

50 Watt

Value	(Code)	Value	(Code)	Value	(Code)
.50	(R50)	125	(125)	500	(500)
1.0	(1R0)	225	(225)	2.5K	(2K5)
6.0	(6R0)	1.0K	(1K0)	10.0K	(10K)
35	(35R)	5.0K	(5K0)		
50	(50R)	150	(150)		

Resistance Range (Ω)	Watt-age	Digi-Key* Part No.	Price Each 1	10	100	250
1.0-8.0	12.5	RES(Code)-ND†	21.63	19.47	15.14	14.06
10-350	12.5	RES(Code)-ND†	20.50	18.45	14.35	13.33
500-1.5K	12.5	RES(Code)-ND†	21.05	18.95	14.74	13.68
2.5K-5.0K	12.5	RES(Code)-ND†	22.40	20.16	15.68	14.56
10.0K	12.5	RES(Code)-ND†	24.20	21.78	16.94	15.73
1.0-8.0	25	RHS(Code)-ND††	24.10	21.69	16.87	—
10-750	25	RHS(Code)-ND††	23.03	20.73	16.12	—
1.0K-5.0K	25	RHS(Code)-ND††	23.82	21.44	16.67	—
10.0K	25	RHS(Code)-ND††	25.84	23.26	18.10	—
.50	50	RJS(Code)-ND††	34.89	31.40	24.42	20.93
1.0-6.0	50	RJS(Code)-ND††	31.16	28.04	21.81	18.70
35-150	50	RJS(Code)-ND††	27.26	24.53	19.08	16.36
225-500	50	RJS(Code)-ND††	26.20	23.58	18.35	15.72
1.0K-10.0K	50	RJS(Code)-ND††	28.64	25.78	20.05	17.18
Knob for 25/50W Rheostat		5150-ND	6.30	4.41	—	—
Knob for 12.5W Rheostat		5151-ND	4.57	3.20	—	—

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Encapsulated Thermal Switches

Encapsulated Thermal Switches are ideal for sensing the temperature of a surface or of stagnant air in an enclosure. Available with PC pins or with flexible wire leads for remote installation. Their high temperature resistance and high dielectric strength make it ideal for protecting heatsink-mounted semiconductors. Other applications would be protecting power supplies, or simply turning on a fan at a desired temperature.

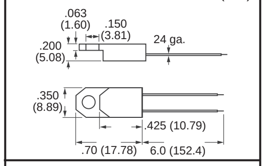
Current Sensitivity: The thermal switches are not current sensitive at rated currents. At loads above the rated values, up to maximum loading there is self-heating of the current carrying contacts.

Insulation Resistance: 2500 V @ 25°C, Leads to Earth 1500 V @ 100°C. Across open contacts, dependent on response temperature: 500 V eff. AC.

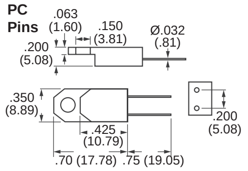
Marking: Response temperature in clear text (5°C steps). Normally Closed = blue or black (epoxy); Normally Open = red (epoxy)

UL E46827 CSA LR28044-10 VDE 4523-4510-0702/329CU

Leaded Dim.: Inch (mm)



PC Pins



Electrical Specifications

Type	N/C	N/O
Voltage Rating 50-60 Hz	120 V / 250 V	120 V / 250 V
Current Rating Resistive	3.0 A / 2.0 A	1 A / 1 A*
Current Rating Inductive	1.8 A / 1.2 A	1 A / 1 A
Max. Load Resistive	4.0 A	4.0 A
Short Circuit Current Up to	6.3 A	6.3 A
Contact Arrangement Normally Closed N/C Normally Open N/O	—○—○—	—○╲○—
Contact Resistance	< 40 mΩ	< 40 mΩ
Response Temperature Range	+70°C to +160° C	+70°C to +150°C
Tolerance Range	±5°C	±5°C
Max. Permanent Temperature of Housing - G410	220°C	220°C
Housing Material - G410	PPS	PPS
Thermal Conductivity	4.0 BTU - in. / hr. / ft² / °F	

* When N/O contacts are closed, self heating will occur at currents exceeding normal rating. It is possible that, given certain combinations of set temperature current and ambient temperature, the contacts will not reset.

Thermal Switches With Leads

Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
Normally Closed						
70	317-1000-ND	6.24	5.46	4.60	3.16	F1107025ACFA06E
75	317-1001-ND	6.24	5.46	4.60	3.16	F1107525ACFA06E
80	317-1002-ND	6.24	5.46	4.60	3.16	F1108025ACFA06E
85	317-1003-ND	6.24	5.46	4.60	3.16	F1108525ACFA06E
90	317-1004-ND	6.24	5.46	4.60	3.16	F1109025ACFA06E
95	317-1005-ND	6.24	5.46	4.60	3.16	F1109525ACFA06E
100	317-1006-ND	6.24	5.46	4.60	3.16	F1110025ACFA06E
105	317-1007-ND	6.24	5.46	4.60	3.16	F1110525ACFA06E
110	317-1008-ND	6.24	5.46	4.60	3.16	F1111025ACFA06E
115	317-1009-ND	6.24	5.46	4.60	3.16	F1111525ACFA06E
120	317-1010-ND	6.24	5.46	4.60	3.16	F1112025ACFA06E
125	317-1011-ND	6.24	5.46	4.60	3.16	F1112525ACFA06E
130	317-1012-ND	6.24	5.46	4.60	3.16	F1113025ACFA06E
135	317-1013-ND	6.24	5.46	4.60	3.16	F1113525ACFA06E
140	317-1014-ND	6.24	5.46	4.60	3.16	F1114025ACFA06E
145	317-1015-ND	6.24	5.46	4.60	3.16	F1114525ACFA06E
150	317-1016-ND	6.24	5.46	4.60	3.16	F1115025ACFA06E
155	317-1017-ND	6.24	5.46	4.60	3.16	F1115525ACFA06E
160	317-1018-ND	6.24	5.46	4.60	3.16	F1116025ACFA06E
Normally Open						
70	317-1019-ND	8.12	7.11	5.98	4.11	F1107015ACFA06E
75	317-1020-ND	8.12	7.11	5.98	4.11	F1107515ACFA06E
80	317-1021-ND	8.12	7.11	5.98	4.11	F1108015ACFA06E
85	317-1022-ND	8.12	7.11	5.98	4.11	F1108515ACFA06E
90	317-1023-ND	8.12	7.11	5.98	4.11	F1109015ACFA06E
95	317-1024-ND	8.12	7.11	5.98	4.11	F1109515ACFA06E
100	317-1025-ND	8.12	7.11	5.98	4.11	F1110015ACFA06E
105	317-1026-ND	8.12	7.11	5.98	4.11	F1110515ACFA06E
110	317-1027-ND	8.12	7.11	5.98	4.11	F1111015ACFA06E
115	317-1028-ND	8.12	7.11	5.98	4.11	F1111515ACFA06E
120	317-1029-ND	8.12	7.11	5.98	4.11	F1112015ACFA06E
125	317-1030-ND	8.12	7.11	5.98	4.11	F1112515ACFA06E
130	317-1031-ND	8.12	7.11	5.98	4.11	F1113015ACFA06E
135	317-1032-ND	8.12	7.11	5.98	4.11	F1113515ACFA06E
140	317-1033-ND	8.12	7.11	5.98	4.11	F1114015ACFA06E
145	317-1034-ND	8.12	7.11	5.98	4.11	F1114515ACFA06E
150	317-1035-ND	8.12	7.11	5.98	4.11	F1115015ACFA06E

Thermal Switches With PC Pins

Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
Normally Closed						
70	317-1038-ND	6.24	5.46	4.60	3.16	F11070251ZA0060
75	317-1039-ND	6.24	5.46	4.60	3.16	F11075251ZA0060
80	317-1040-ND	6.24	5.46	4.60	3.16	F11080251ZA0060
85	317-1041-ND	6.24	5.46	4.60	3.16	F11085251ZA0060
90	317-1042-ND	6.24	5.46	4.60	3.16	F11090251ZA0060
95	317-1043-ND	6.24	5.46	4.60	3.16	F11095251ZA0060
100	317-1044-ND	6.24	5.46	4.60	3.16	F11100251ZA0060
105	317-1045-ND	6.24	5.46	4.60	3.16	F11105251ZA0060
110	317-1046-ND	6.24	5.46	4.60	3.16	F11110251ZA0060
115	317-1047-ND	6.24	5.46	4.60	3.16	F11115251ZA0060
120	317-1048-ND	6.24	5.46	4.60	3.16	F11120251ZA0060
125	317-1049-ND	6.24	5.46	4.60	3.16	F11125251ZA0060
130	317-1050-ND	6.24	5.46	4.60	3.16	F11130251ZA0060
135	317-1051-ND	6.24	5.46	4.60	3.16	F11135251ZA0060
140	317-1052-ND	6.24	5.46	4.60	3.16	F11140251ZA0060
145	317-1053-ND	6.24	5.46	4.60	3.16	F11145251ZA0060
150	317-1054-ND	6.24	5.46	4.60	3.16	F11150251ZA0060
155	317-1055-ND	6.24	5.46	4.60	3.16	F11155251ZA0060
160	317-1056-ND	6.24	5.46	4.60	3.16	F11160251ZA0060
Normally Open						
70	317-1057-ND	8.12	7.11	5.98	4.11	F11070151ZA0060
75	317-1058-ND	8.12	7.11	5.98	4.11	F11075151ZA0060
80	317-1059-ND	8.12	7.11	5.98	4.11	F11080151ZA0060
85	317-1060-ND	8.12	7.11	5.98	4.11	F11085151ZA0060
90	317-1061-ND	8.12	7.11	5.98	4.11	F11090151ZA0060
95	317-1062-ND	8.12	7.11	5.98	4.11	F11095151ZA0060
100	317-1063-ND	8.12	7.11	5.98	4.11	F11100151ZA0060
105	317-1064-ND	8.12	7.11	5.98	4.11	F11105151ZA0060
110	317-1065-ND	8.12	7.11	5.98	4.11	F11110151ZA0060
115	317-1066-ND	8.12	7.11	5.98	4.11	F11115151ZA0060
120	317-1067-ND	8.12	7.11	5.98	4.11	F11120151ZA0060
125	317-1068-ND	8.12	7.11	5.98	4.11	F11125151ZA0060
130	317-1069-ND	8.12	7.11	5.98	4.11	F11130151ZA0060
135	317-1070-ND	8.12	7.11	5.98	4.11	F11135151ZA0060
140	317-1071-ND	8.12	7.11	5.98	4.11	F11140151ZA0060
145	317-1072-ND	8.12	7.11	5.98	4.11	F11145151ZA0060
150	317-1073-ND	8.12	7.11	5.98	4.11	F11150151ZA0060
155	317-1074-ND	8.12	7.11	5.98	4.11	F11155151ZA0060
160	317-1075-ND	8.12	7.11	5.98	4.11	F11160151ZA0060

Bi-metal Cutouts, Temperature Regulators / Temperature Limiters

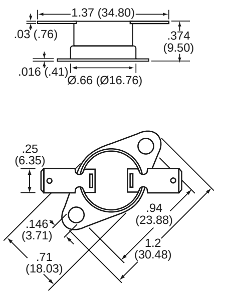
The thermal response works a bimetal snap element electrically connected to the switch contact. The switch system is current insensitive. The thermal switches react only to external thermal effects. Double contacts ensure high switch performance and long service life. The housing, base, and the mounting brackets are voltage-free (Standard version: base and mounting brackets are aluminum-plated steel). Heat transfer occurs directly through the metallic base via convection, radiation and conduction in gaseous and solid media. The mounting flange is floating and can be rotated to any desired position with respect to the electrical terminals.

ADVANTAGES:
* High pressure resistance
* High response sensitivity
* Numerous applications
* Various housings, connections and mounting styles

UL E48909 CSA LR85477-1 VDE 4523-4610-1008

Electrical Specifications

Voltage Rating 50-60 Hz	120 V / 250 V
Current Rating Resistive	15 A / 10.0 A
Current Rating Inductive	6.3 A
Maximum Load Resistive	20 A / 16 A
Contact Resistance	< 50 mΩ
Nominal Temperature Range	0° to +170° C
Tolerance Range	±5°C
Maximum Permanent Temperature	175°C
Housing Material	Duroplast
Overall Height (mm)	9.5 (+0.2)
Contacts: Normally Closed —○—○—	Normally Open —○╲○—



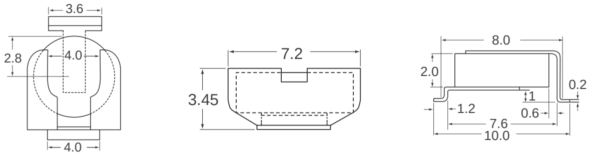
Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
Normally Closed						
15	317-1076-ND	8.40	7.35	6.10	4.02	R2001525
30	317-1077-ND	8.40	7.35	6.10	4.02	R2003025
35	317-1078-ND	8.40	7.35	6.10	4.02	R2003525
40	317-1079-ND	8.40	7.35	6.10	4.02	R2004025
45	317-1080-ND	8.40	7.35	6.10	4.02	R2004525
50	317-1081-ND	6.60	5.78	4.86	3.20	R2005025
60	317-1082-ND	6.60	5.78	4.86	3.20	R2006025
65	317-1083-ND	6.60	5.78	4.86	3.20	R2006525
70	317-1084-ND	6.60	5.78	4.86	3.20	R2007025
75	317-1085-ND	6.60	5.78	4.86	3.20	R2007525
80	317-1086-ND	6.60	5.78	4.86	3.20	R2008025
85	317-1087-ND	6.60	5.78	4.86	3.20	R2008525
90	317-1088-ND	6.60	5.78	4.86	3.20	R2009025
95	317-1089-ND	6.60	5.78	4.86	3.20	R2009525
100	317-1090-ND	6.60	5.78	4.86	3.20	R2010025
115	317-1091-ND	6.60	5.78	4.86	3.20	R2011525
Normally Open						
35	317-1092-ND	10.80	9.45	7.95	5.24	R2003515
40	317-1093-ND	10.80	9.45	7.95	5.24	R2004015
50	317-1094-ND	9.00	7.88	6.55	4.31	R2005015
60	317-1095-ND	9.00	7.88	6.55	4.31	R2006015
80	317-1096-ND	9.00	7.88	6.55	4.31	R2008015
100	317-1097-ND	9.00	7.88	6.55	4.31	R2010015

Surface Mount PTC Thermistors For Overload Protection

The component consists of a high-performance PTC ceramic disc mounted in a lead-frame, for direct soldering onto a printed-circuit board (PCB) or substrate.
The ceramic is soldered to the lead-frame by a local reflow process, during which the solder layer is melted to the metallized ceramic surface using a low residue flux.

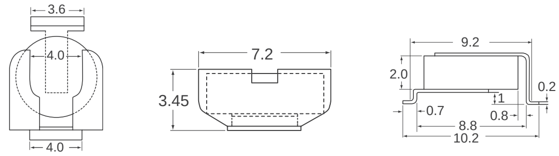
Features:
• Ideal for pick-and-place circuit assembly • Low mounting height • Suitable for reflow soldering • Small ceramic diameter for faster response • Low heat transfer to substrate • Flat terminations for stable positioning and good solderability

Fig. 1



Ceramic size: 6.5mm

Fig. 2



Ceramic size: 7.1mm

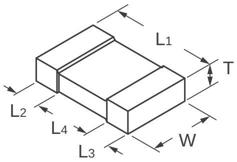
Fig.	Res. @ 25°C (Ω)	V Max. (V)	I_{nt} @		I_t @ 25°C	Ceramic Size inch (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,500	BC Components Part No.
			25°C	70°C				1	10	100			
Telecommunication Type													
1	10	245	165	100	270	0.25 (6.5)	BC1566CT-ND	1.93	1.70	1.33	BC1566TR-ND	724.50/M	2322 661 97012
	10	245	165	100	270	0.25 (6.5)	BC1568CT-ND	1.93	1.70	1.33	BC1568TR-ND	724.50/M	2322 661 97016
	17.5	300	150	100	250	0.25 (6.5)	BC1561CT-ND	1.93	1.70	1.33	BC1561TR-ND	724.50/M	2322 661 97003
	17.5	300	150	100	250	0.25 (6.5)	BC1562CT-ND	1.93	1.70	1.33	BC1562TR-ND	724.50/M	2322 661 97004
	20	300	120	70	250	0.25 (6.5)	BC1569CT-ND	1.93	1.70	1.33	BC1569TR-ND	724.50/M	2322 661 97018
	25	265	120	70	220	0.25 (6.5)	BC1563CT-ND	1.93	1.70	1.33	BC1563TR-ND	724.50/M	2322 661 97005
	35	425	110	70	175	0.25 (6.5)	BC1564CT-ND	1.93	1.70	1.33	BC1564TR-ND	724.50/M	2322 661 97009
	40	265	80	50	130	0.25 (6.5)	BC1560CT-ND	1.93	1.70	1.33	BC1560TR-ND	724.50/M	2322 661 97002
	50	425	90	60	150	0.25 (6.5)	BC1570CT-ND	1.93	1.70	1.33	BC1570TR-ND	724.50/M	2322 661 97019
2	10	300	150	100	250	0.28 (7.1)	BC1571CT-ND	1.93	1.70	1.33	BC1571TR-ND	724.50/M	2322 661 97203
	50	600	70	40	140	0.28 (7.1)	BC1573CT-ND	1.93	1.70	1.33	BC1573TR-ND	724.50/M	2322 661 97205
General Industrial Type													
1	3.3	24	400	—	650	0.25 (6.5)	BC1567CT-ND	1.93	1.70	1.33	BC1567TR-ND	724.50/M	2322 661 97013
	9.4	60	150	100	300	0.25 (6.5)	BC1565CT-ND	1.93	1.70	1.33	BC1565TR-ND	724.50/M	2322 661 97011

Surface Mount NTC Chip Thermistors (0603 and 0805 Size)

Size 0603 and 0805 chip thermistors have a negative temperature coefficient and nickel barrier contacts. The device has no marking.

Features:
• High sensitivity • High accuracy over wide ranges of operating temperature (-40°C to 150°C)
• Taped on reel • Suitable for wave or reflow soldering

Applications:
• Temperature compensation, sensing and protection in: battery chargers, consumer equipment, and office equipment



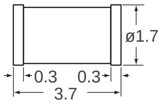
Size Code	Dimensions (mm)					
	L_1	W	T Min.	T Max.	L_2 and L_3	L_4 Min.
A	1.6 ±0.15	0.8 ±0.15	0.5	1.0	0.2	0.4
B	2.0 ±0.2	1.25 ±0.2	0.5	1.25	0.5 ±0.25	0.5

Size Code	Res. @ 25°C	Tol. @ 25°C	B Value/B Tolerance @ B25/85	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 4,000	BC Components Part No.
					1	10	100			
0603 Size										
A	4.7kΩ	±3%	3830K±1%	BC1543CT-ND*	.62	.55	.43	BC1543TR-ND*	232.20/M	2322 615 36472
	10kΩ	±3%	3590K±1%	BC1544CT-ND*	.62	.55	.43	BC1544TR-ND*	232.20/M	2322 615 36103
	15kΩ	±3%	3600K±1%	BC1545CT-ND*	.62	.55	.43	BC1545TR-ND*	232.20/M	2322 615 36153
	47kΩ	±3%	3960K±1%	BC1546CT-ND*	.62	.55	.43	BC1546TR-ND*	232.20/M	2322 615 36473
	68kΩ	±3%	3985K±1%	BC1547CT-ND*	.62	.55	.43	BC1547TR-ND*	232.20/M	2322 615 36683
	100kΩ	±3%	4090K±1%	BC1548CT-ND*	.62	.55	.43	BC1548TR-ND*	232.20/M	2322 615 36104
	4.7kΩ	±5%	3830K±1%	BC1538CT-ND*	.59	.52	.41	BC1538TR-ND*	220.50/M	2322 615 33472
	10kΩ	±5%	3590K±1%	BC1539CT-ND*	.59	.52	.41	BC1539TR-ND*	220.50/M	2322 615 33103
	15kΩ	±5%	3600K±1%	BC1540CT-ND*	.59	.52	.41	BC1540TR-ND*	220.50/M	2322 615 33153
	47kΩ	±5%	3960K±1%	BC1541CT-ND*	.59	.52	.41	BC1541TR-ND*	220.50/M	2322 615 33473
	100kΩ	±5%	4090K±1%	BC1542CT-ND*	.59	.52	.41	BC1542TR-ND*	220.50/M	2322 615 33104
0805 Size										
B	2.2kΩ	±5%	3680K±3%	BC1514CT-ND	.52	.46	.36	BC1514TR-ND	195.00/M	2322 615 53222
	4.7kΩ	±5%	3560K±1%	BC1516CT-ND	.52	.46	.36	BC1516TR-ND	195.00/M	2322 615 53472
	10kΩ	±5%	3620K±1%	BC1518CT-ND	.52	.46	.36	BC1518TR-ND	195.00/M	2322 615 53103
	15kΩ	±5%	3528K±1%	BC1519CT-ND	.52	.46	.36	BC1519TR-ND	195.00/M	2322 615 53153
	22kΩ	±5%	3930K±1.5%	BC1520CT-ND	.52	.46	.36	BC1520TR-ND	195.00/M	2322 615 53223
	33kΩ	±5%	3960K±3%	BC1521CT-ND	.52	.46	.36	BC1521TR-ND	195.00/M	2322 615 53333
	47kΩ	±5%	4090K±1.5%	BC1522CT-ND	.52	.46	.36	BC1522TR-ND	195.00/M	2322 615 53473
	68kΩ	±5%	3740K±3%	BC1523CT-ND	.52	.46	.36	BC1523TR-ND	195.00/M	2322 615 53683

***** 0603 Size Code A have NiSn terminations.

Surface Mount NTC Thermistors - SOD80

High Temperature Sensors



These thermistors have a negative temperature coefficient and are mounted in a glass envelope, without leads and suitable for surface mounting.

Features: • Small Diameter • Quick response to temperature change • High stability over a long life • Wide temperature range from -40°C to +300°C • Resistant to corrosive atmospheres and harsh environments.

Applications: • High temperature measurement control: Domestic appliances, Automotive systems, and Industrial process control.

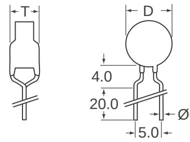
Res. @ 25°C	B Value/B Tolerance @ B25/85	Tol. @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500	BC Components Part No.
10kΩ	3977K±1.3%	±5%	BC1549CT-ND	1.06	.94	.74	BC1549TR-ND	399.00/M	2322 633 53103
20kΩ	3977K±1.3%	±5%	BC1550CT-ND	1.06	.94	.74	BC1550TR-ND	399.00/M	2322 633 53203
30kΩ	3977K±1.3%	±5%	BC1551CT-ND	1.06	.94	.74	BC1551TR-ND	399.00/M	2322 633 53303
100kΩ	3977K±1.3%	±5%	BC1552CT-ND	1.12	.98	.77	BC1552TR-ND	420.00/M	2322 633 53104

Leaded PTC Thermistors

For Overload Protection

These directly heated thermistors have a positive temperature coefficient and are primarily intended for overload protection.

Features:
- Switch Temperature: Ts = 140°C, (Series 2322 660 5: Ts = 120°C)
- Small ratio between trip and non-trip currents
- High maximum inrush current
- Excellent long term behavior, also in humidity
- UL approved PTCs are guaranteed to withstand severe test programs
- UL file E148885 according to XGPU2 standard UL1434.



Res. @ 25°C ±20% (Ω)	I_{nt} Max @ 25°C (mA)	I_t Min. @ 25°C (mA)	V Max. (V)	Typical øD (mm)	Dim. D Max. (mm)	Dim. T Max. (mm)	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
0.9	920	1380	30	12	12.5	4.0	BC1345-ND	1.98	1.78	1.41	2322 662 59211
1.1	830	1245	30	12	12.5	4.0	BC1344-ND	1.45	1.30	1.03	2322 662 58311
1.3	700	1050	30	10	10.5	4.0	BC1343-ND	1.34	1.20	.95	2322 662 57011
1.7	610	915	30	10	10.5	4.0	BC1342-ND	1.34	1.20	.95	2322 662 56111
1.9	540	810	30	8.0	8.5	4.0	BC1341-ND	1.46	1.32	1.04	2322 661 55411
2.5	470	705	30	8.0	8.5	4.0	BC1340-ND	1.46	1.32	1.04	2322 661 54711
3	410	615	30	6.5	7.0	4.0	BC1339-ND	1.46	1.32	1.04	2322 661 54111
5	320	480	30	6.5	7.0	4.0	BC1338-ND	1.46	1.32	1.04	2322 661 53211
6	270	405	30	4.5	5.0	4.0	BC1337-ND	1.09	.99	.78	2322 660 52711
13	180	270	30	4.5	5.0	4.0	BC1336-ND	1.03	.93	.73	2322 660 51811
25	130	195	60	4.5	5.0	4.0	BC1335-ND	1.09	.99	.78	2322 660 51311
50	94	145	60	4.5	5.0	4.0	BC1334-ND	1.09	.99	.78	2322 660 59491
1.3	1000	1500	145	20	20.5	5.0	BC1359-ND	5.43	4.88	3.85	2322 664 51022
1.7	880	1320	145	20	20.5	5.0	BC1358-ND	5.96	5.36	4.23	2322 664 58812
2.1	710	1065	145	16	16.5	5.0	BC1357-ND	3.64	3.28	2.58	2322 663 57112
2.9	600	900	145	16	16.5	5.0	BC1356-ND	3.59	3.23	2.55	2322 663 56012
3.8	450	675	145	12	12.5	5.0	BC1355-ND	1.67	1.50	1.19	2322 662 54512
4.6	410	615	145	12	12.5	5.0	BC1354-ND	1.45	1.30	1.03	2322 662 54112
6.7	320	480	145	10	10.5	5.0	BC1353-ND	1.98	1.78	1.41	2322 662 53212
8	270	405	145	8.0	8.5	5.0	BC1352-ND	1.46	1.32	1.04	2322 661 52712
12	210	315	145	6.5	7.0	5.0	BC1351-ND	1.17	1.05	.83	2322 661 52112
19	170	255	145	6.5	7.0	5.0	BC1350-ND	1.17	1.06	.83	2322 661 51712
28	130	195	145	4.5	5.0	5.0	BC1349-ND	1.09	.99	.78	2322 660 51312
40	110	165	145	4.5	5.0	5.0	BC1348-ND	.81	.74	.58	2322 660 51112
55	93	140	145	4.5	5.0	5.0	BC1347-ND	1.09	.99	.78	2322 660 59392
240	47	70	145	4.5	5.0	5.0	BC1346-ND	1.09	.99	.78	2322 660 54792
8.4	320	480	265	12	12.5	5.5	BC1375-ND	1.98	1.78	1.41	2322 662 53213
11	280	420	265	12	12.5	5.5	BC1374-ND	1.98	1.78	1.41	2322 662 52813
12	250	375	265	10	10.5	5.5	BC1373-ND	1.89	1.70	1.34	2322 662 52513
17	210	315	265	10	10.5	5.5	BC1372-ND	1.28	1.16	.91	2322 662 52113
18	190	285	265	8.0	8.5	5.5	BC1371-ND	1.41	1.27	1.00	2322 661 51913
22	170	255	265	8.0	8.5	5.5	BC1370-ND	1.41	1.27	1.00	2322 661 51713
29	140	210	265	6.5	7.0	5.5	BC1369-ND	1.41	1.27	1.00	2322 661 51413
48	110	165	265	6.5	7.0	5.5	BC1368-ND	1.41	1.27	1.00	2322 661 51113
56	95	143	265	4.5	5.0	5.5	BC1367-ND	.71	.64	.51	2322 660 59593
85	76	115	265	4.5	5.0	5.5	BC1366-ND	1.09	.99	.78	2322 660 57693
120	63	95	265	4.5	5.0	5.5	BC1365-ND	1.09	.99	.78	2322 660 56393
260	39	59	265	4.5	5.0	5.5	BC1364-ND	1.09	.99	.78	2322 660 53993
500	28	42	265	4.5	5.0	5.5	BC1363-ND	1.09	.99	.78	2322 660 52893
1200	19	29	265	4.5	5.0	5.5	BC1362-ND	1.09	.99	.78	2322 660 51993
1900	15	23	265	4.5	5.0	5.5	BC1361-ND	1.22	1.10	.87	2322 660 51593
3000	11	17	265	4.5	5.0	5.5	BC1360-ND	1.09	.99	.78	2322 660 51193

Leaded PTC Thermistors

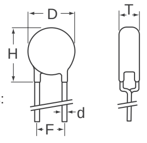
Overload Protection for Telecommunication

Advanced developments in telephone equipment in recent years have radically altered the protection requirements for both exchange and subscriber equipment. The BC Components range of Positive Temperature Coefficient (PTC) thermistors includes devices specially designed to provide overcurrent protection.

Features:
- Fast protection against power contact faults
- Withstand high overload currents of up to 10 A
- High voltage withstanding capabilities for the larger sized thermistors
- Good tracking over a wide temperature range for all matched or binned types
- Excellent stability over extended time
- All telecom PTCs are coated with a high temperature silicon lacquer (UL94V0) to protect them from any harsh environments and to improve their lifetime.

Lead Pitch:
F = 5mm

Lead Thickness:
d = 0.6mm



Res. @ 25°C (Ω)	V Max. (V)	Non-Trip Current I_{nt} (mA)	Trip Current I_{nt} (mA)	Dimensions (mm) Max. D	T	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500	BC Components Part No.
4	100	85	280	7.0	4.0	11.0	BC1553CT-ND	.88	.78	.61	BC1553TR-ND	331.50/M	2322 661 91066
25	220	70	200	8.5	5.0	11.5	BC1554CT-ND	1.00	.88	.69	BC1554TR-ND	373.50/M	2322 661 93048
25	245	70	200	8.3	4.0	11.0	BC1555CT-ND	1.00	.88	.69	BC1555TR-ND	373.50/M	2322 661 93043
10	245	140	270	11.0	4.5	15.5	BC1556CT-ND	2.24	1.96	1.54	BC1556TR-ND	838.50/M	2322 662 93074
25	250	70	175	7.0	4.0	9.8	BC1557CT-ND	1.00	.88	.69	BC1557TR-ND	373.50/M	2322 661 93148
10	350	100	270	8.5	4.0	11.5	BC1376-ND*	.98	.89	.70	—	—	2322 661 93124
35	600	70	600	8.0	5.0	11.0	BC1558CT-ND	1.08	.95	.75	BC1558TR-ND	405.00/M	2322 661 93056
25	600	70	170	10.5	5.0	12.6	BC1559CT-ND	1.08	.95	.75	BC1559TR-ND	405.00/M	2322 662 93129
10	600	175	400	13.0	5.5	18.0	BC1377-ND*	1.73	1.56	1.23	—	—	2322 662 93114

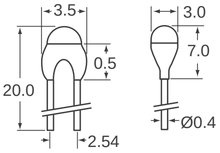
* Bulk Pricing

Leaded PTC Thermistors For Temperature Protection

These directly heated thermistors have a positive temperature coefficient and are primarily intended for sensing.

Transition Temp. Tn (°C)	Color Code	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
90	Red	BC1378-ND	1.18	1.07	.84	2322 671 91104
100	Orange	BC1379-ND	1.18	1.07	.84	2322 671 91105
110	Yellow	BC1380-ND	1.18	1.07	.84	2322 671 91106
120	Green	BC1381-ND	1.18	1.07	.84	2322 671 91107

120 Ω	Maximum resistance at 25°C
4000 Ω	Minimum resistance at (Tn + 15) °C
30 V	Maximum (DC) voltage
-20 to (Tn + 15) °C	Temperature range
30 to 250 Ω	Resistance from -20°C to Tn -20°C (Ω)
50 to 570 Ω	Resistance at Tn -5°C (Ω)
1.33 to 50 kΩ	Resistance at Tn +5°C (kΩ)



Leaded NTC Thermistors

Accuracy Line

These thermistors have a negative temperature coefficient.

Fig. 1 – The device consists of a chip with two tinned Ni-leads, and is color coded.

Fig. 2 – The device consists of a chip with two tinned solid copper-plated leads. It is gray lacquered and color coded, but not insulated.

Applications: Temperature sensing and control.

Fig.	Dimensions (mm) B Max.	d	H_1 Max.	H_2 Max.	L	M	P	T Max.
1	3.4	0.4	2.0±1.0	—	—	40.0 ±1.5	2.54	3.0
2	3.3 ±0.5	0.6 ±0.06	2.0 ±1.0	6.0	24.0 ±1.5	—	2.54	3.0

Fig. 1

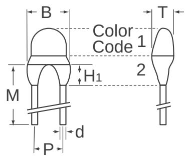


Fig. 2

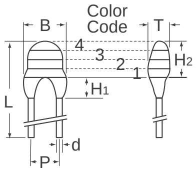
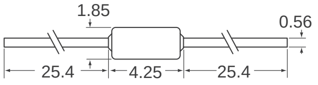


Fig.	Res. @ 25°C	Tol. @ 25°C	B Value/B Tolerance @ B25/85	Color Code 1	2	3	4	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
1	10kΩ	±1%	3977K±0.75%	Blue	Blue	—	—	BC1489-ND	1.81	1.63	1.29	2322 640 55103
	100kΩ	±1%	4190K±1.5%	Brown	Brown	—	—	BC1490-ND	1.91	1.72	1.36	2322 640 55104
	10kΩ	±2%	3977K±0.75%	Blue	Blue	—	—	BC1486-ND	1.24	1.12	.88	2322 640 54103
	47kΩ	±2%	4090K±1.5%	Black	Black	—	—	BC1487-ND	1.24	1.12	.88	2322 640 54473
	100kΩ	±2%	4190K±1.5%	Brown	Brown	—	—	BC1488-ND	1.24	1.12	.88	2322 640 54104
2	2.7kΩ	±3%	3977K±0.75%	Red	Violet	Red	Orange	BC1480-ND	.68	.62	.49	2322 640 66272
	4.7kΩ	±3%	3977K±0.75%	Yellow	Violet	Red	Orange	BC1481-ND	.68	.62	.49	2322 640 66472
	10kΩ	±3%	3977K±0.75%	Brown	Black	Orange	Orange	BC1482-ND	.68	.62	.49	2322 640 66103
	47kΩ	±3%	4090K±1.5%	Yellow	Violet	Orange	Orange	BC1483-ND	.68	.62	.49	2322 640 66473
	100kΩ	±3%	4190K±1.5%	Brown	Black	Yellow	Orange	BC1484-ND	.68	.62	.49	2322 640 66104
	470kΩ	±3%	4570K±1.5%	Yellow	Violet	Yellow	Orange	BC1485-ND	.68	.62	.49	2322 640 66474
2	470Ω	±5%	3560K±0.5%	Yellow	Violet	Brown	Gold	BC1462-ND	.57	.52	.41	2322 640 63471
	1.0kΩ	±5%	3528K±0.5%	Brown	Black	Red	Gold	BC1463-ND	.57	.52	.41	2322 640 63102
	1.5kΩ	±5%	3528K±0.5%	Brown	Green	Red	Gold	BC1464-ND	.57	.52	.41	2322 640 63152
	2.0kΩ	±5%	3528K±0.5%	Red	Black	Red	Gold	BC1465-ND	.57	.52	.41	2322 640 63202
	2.2kΩ	±5%	3977K±0.75%	Red	Red	Red	Gold	BC1466-ND	.57	.52	.41	2322 640 63222
	3.3kΩ	±5%	3977K±0.75%	Orange	Orange	Red	Gold	BC1467-ND	.57	.52	.41	2322 640 63332
	4.7kΩ	±5%	3977K±0.75%	Yellow	Violet	Red	Gold	BC1468-ND	.57	.52	.41	2322 640 63472
	6.8kΩ	±5%	3977K±0.75%	Blue	Gray	Red	Gold	BC1469-ND	.57	.52	.41	2322 640 63682
	10kΩ	±5%	3977K±0.75%	Brown	Black	Orange	Gold	BC1470-ND	.57	.52	.41	2322 640 63103
	15kΩ	±5%	3740K±2%	Brown	Green	Orange	Gold	BC1471-ND	.57	.52	.41	2322 640 63153
	22kΩ	±5%	3740K±2%	Red	Red	Orange	Gold	BC1472-ND	.57	.52	.41	2322 640 63223
	33kΩ	±5%	4090K±1.5%	Orange	Orange	Orange	Gold	BC1473-ND	.57	.52	.41	2322 640 63333
	47kΩ	±5%	4090K±1.5%	Yellow	Violet	Orange	Gold	BC1474-ND	.57	.52	.41	2322 640 63473
	68kΩ	±5%	4190K±1.5%	Blue	Gray	Orange	Gold	BC1475-ND	.57	.52	.41	2322 640 63683
	100kΩ	±5%	4190K±1.5%	Brown	Black	Yellow	Gold	BC1476-ND	.57	.52	.41	2322 640 63104
	150kΩ	±5%	4370K±2.5%	Brown	Green	Yellow	Gold	BC1477-ND	.57	.52	.41	2322 640 63154
	220kΩ	±5%	4370K±2.5%	Red	Red	Yellow	Gold	BC1478-ND	.57	.52	.41	2322 640 63224
	470kΩ	±5%	4570K±1.5%	Yellow	Violet	Yellow	Gold	BC1479-ND	.57	.52	.41	2322 640 63474

Leaded NTC Thermistors - SOD27 High Temperature Sensors

These thermistors have a negative temperature coefficient and are mounted in a glass envelope, with tinned copper-clad iron leads.

Res. @ 25°C	B Value/B Tolerance @ B25/85	Tol. @ 25°C	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
10kΩ	3977K±1.3%	±5%	BC1491-ND	1.07	.97	.77	2322 633 83103
20kΩ	3977K±1.3%	±5%	BC1492-ND	1.07	.97	.77	2322 633 83203
30kΩ	3977K±1.3%	±5%	BC1493-ND	1.07	.97	.77	2322 633 83303
100kΩ	3977K±1.3%	±5%	BC1494-ND	1.07	.97	.77	2322 633 83104



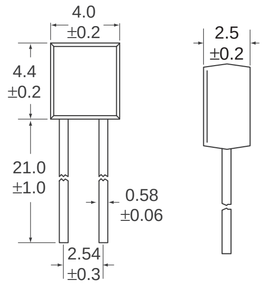
Leaded NTC Thermistors

Molded Range

These thermistors have a negative temperature coefficient. The device consists of a molded chip with two tin-plated nickel leads.

Dimensions in mm

Res. @ 25°C	B Value/B Tolerance @ B25/85	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
2.7kΩ	3977K±0.75%	BC1495-ND	1.21	1.09	.86	2322 641 66272
12kΩ	3740K±2.0%	BC1496-ND	1.21	1.09	.86	2322 641 66123
15kΩ	3740K±2.0%	BC1497-ND	1.21	1.09	.86	2322 641 66153
470kΩ	4570K±1.5%	BC1499-ND	1.21	1.09	.86	2322 641 66474



Panasonic

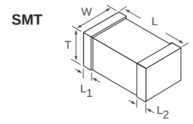
Multilayer Chip NTC Thermistors (ERTJ)

The Multilayer Chip NTC Thermistors are especially designed for surface mountings featuring the miniature sizes of “0201”, “0402” and “0603” type (EIA) with highly reliable multilayer and monolithic structure.

FEATURES:

- Highly reliable multilayer/monolithic structure
- Superior heat resistance to reflow soldering and excellent solderability thanks to the unique external electrodes of three metallic layers
- Operating Temperature Range: -40°C to 125°C
- Resistance to Soldering Heat: 270°C-3s, 260°C-10s
- Heat Dissipation Constant (mounted on a glass epoxy,1.6t): **0201 Series:** approx. 1mw/°C, **0402 Series:** approx. 2mw/°C and **0603 Series:** approx. 3mw/°C
- Rated Maximum Power Dissipation: **0201 Series:** 33 mW, **0402 Series:** 66 mW and **0603 Series:** 100 mW

SMT



Size Code (EIA)	Dimensions (mm) L	W	T	L1 L2
0201	0.60	0.30	0.30	0.15
0402	1.00	0.50	0.50	0.25
0603	1.60	0.80	0.80	0.30

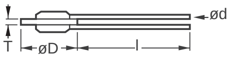
Zero-Power Resist. (at 25°C)	Resis-tance Tol.	B Value B25/50	B25/85	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Tape & Reel* Size	Pricing	Panasonic Part No.
NEW! 0201 NEW!											
2kΩ	±5%	4500K±2%	(4450K)	P12020CT-ND	1.09	.83	.62	.44	15,000	342.00/M	ERT-JZET202J
3kΩ				P12021CT-ND	1.09	.83	.62	.44	15,000	342.00/M	ERT-JZET302J
0402											
22Ω	±5%	2750K±3%	(2700K)	P10557CT-ND	1.05	.93	.73	.60	10,000	123.89/M	ERT-J0EA220J
33Ω		2750K±3%		P10558CT-ND	1.05	.93	.73	.60	10,000	123.89/M	ERT-J0EA330J
40Ω		2750K±3%		P10559CT-ND	1.05	.93	.73	.60	10,000	123.89/M	ERT-J0EA400J
47Ω		2750K±3%		P10560CT-ND	1.05	.93	.73	.60	10,000	123.89/M	ERT-J0EA470J
68Ω		2800K±3%		P10561CT-ND	1.05	.93	.73	.60	10,000	123.89/M	ERT-J0EA680J
100Ω	±5%	2800K±3%	(2750K)	P10562CT-ND	1.05	.93	.73	.60	10,000	123.89/M	ERT-J0EA101J
150Ω		2800K±3%	(2750K)	P10563CT-ND	1.05	.93	.73	.60	10,000	123.89/M	ERT-J0EA151J
1kΩ		4500K±3%	(4450K)	P10564CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ET102J
1.5kΩ		4500K±3%	(4450K)	P10565CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ET152J
2.0kΩ		4500K±3%	(4450K)	P10566CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ET202J
2.2kΩ	±5%	4500K±3%	(4450K)	P10567CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ET222J
3.0kΩ		4500K±3%	(4450K)	P10568CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ET302J
3.3kΩ		4500K±3%	(4450K)	P10569CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ET332J
4.7kΩ		4500K±3%	(4450K)	P10570CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ET472J
3.3kΩ		4250K±3%	(4300K)	P10571CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ER332J
4.7kΩ	±5%	4250K±3%	(4300K)	P10572CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ER472J
6.8kΩ	±5%	4250K±3%	(4300K)	P10573CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ER682J
10kΩ	±5%	4250K±3%	(4300K)	P10574CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ER103J
10kΩ	±1%	(3375K)	3435K±1%	P12007CT-ND *NEW!*	.56	.42	.30	.22	10,000	147.00/M	ERT-J0EG103FA
10kΩ	±2%	(3375K)	3435K±1%	P12008CT-ND *NEW!*	.52	.39	.28	.20	10,000	136.00/M	ERT-J0EG103GA
10kΩ	±3%	(3375K)	3435K±1%	P12009CT-ND *NEW!*	.47	.35	.25	.18	10,000	125.00/M	ERT-J0EG103HA
10kΩ	±5%	(3375K)	3435K±1%	P12010CT-ND *NEW!*	.44	.33	.23	.17	10,000	115.00/M	ERT-J0EG103JA
15kΩ	±5%	4250K±3%	(4300K)	P10575CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ER153J
22kΩ	±5%	4250K±3%	(4300K)	P10576CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ER223J
33kΩ	±5%	4250K±3%	(4300K)	P10577CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0ER333J
47kΩ	±5%	4700K±3%	(4750K)	P10578CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0EV473J
68kΩ		4700K±3%	(4750K)	P10579CT-ND	1.05	.93	.73	.60	10,000	106.21/M	ERT-J0EV683J
47kΩ		4050K±2%	(4100K)	P11441CT-ND	.31	.28	.22	.18	10,000	106.21/M	ERT-J0EP473J
100kΩ		4700K±2%	(4750K)	P11442CT-ND	.31	.28	.22	.18	10,000	106.21/M	ERT-J0EV104J
150kΩ		4700K±2%	(4750K)	P11443CT-ND	.31	.28	.22	.18	10,000	106.21/M	ERT-J0EV154J
220kΩ	±5%	4700K±2%	(4750K)	P11444CT-ND	.31	.28	.22	.18	10,000	106.21/M	ERT-J0EV224J
330kΩ				P11445CT-ND	.31	.28	.22	.18	10,000	106.21/M	ERT-J0EV334J
470kΩ				P11446CT-ND	.31	.28	.22	.18	10,000	106.21/M	ERT-J0EV474J
0603											
22Ω	±5%	2750K±3%	(2700K)	P10531CT-ND	.96	.84	.66	.54	4,000	164.10/M	ERT-J1VA220J
33Ω		2750K±3%	(2700K)	P10532CT-ND	.96	.84	.66	.54	4,000	164.10/M	ERT-J1VA330J
40Ω		2800K±3%	(2750K)	P10533CT-ND	.96	.84	.66	.54	4,000	164.10/M	ERT-J1VA400J
47Ω		2800K±3%	(2750K)	P10534CT-ND	.96	.84	.66	.54	4,000	164.10/M	ERT-J1VA470J
68Ω		2800K±3%	(2750K)	P10535CT-ND	.96	.84	.66	.54	4,000	164.10/M	ERT-J1VA680J
100Ω	±5%	2800K±3%	(2750K)	P10536CT-ND	.96	.84	.66	.54	4,000	164.10/M	ERT-J1VA101J
1kΩ		4500K±3%	(4450K)	P10537CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VT102J
1.5kΩ		4500K±3%	(4450K)	P10538CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VT152J
2.0kΩ		4500K±3%	(4450K)	P10539CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VT202J
2.2kΩ		4500K±3%	(4450K)	P10540CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VT222J
3.0kΩ	±5%	4500K±3%	(4450K)	P10541CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VT302J
3.3kΩ		4500K±3%	(4450K)	P10542CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VT332J
4.7kΩ		4500K±3%	(4450K)	P10543CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VT472J
3.3kΩ		4250K±3%	(4300K)	P10544CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR332J
4.7kΩ		4250K±3%	(4300K)	P10545CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR472J
6.8kΩ	±5%	4250K±3%	(4300K)	P10546CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR682J
10kΩ	±5%	4250K±3%	(4300K)	P10547CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR103J
10kΩ	±1%	(3375K)	3435K±1%	P12011CT-ND *NEW!*	.50	.37	.27	.19	4,000	137.00/M	ERT-J1VG103FA
10kΩ	±2%	(3375K)	3435K±1%	P12012CT-ND *NEW!*	.46	.35	.25	.18	4,000	127.00/M	ERT-J1VG103GA
10kΩ	±3%	(3375K)	3435K±1%	P12013CT-ND *NEW!*	.42	.32	.23	.17	4,000	116.00/M	ERT-J1VG103HA
10kΩ	±5%	(3375K)	3435K±1%	P12014CT-ND *NEW!*	.39	.29	.21	.15	4,000	107.00/M	ERT-J1VG103JA
15kΩ		4250K±3%	(4300K)	P10548CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR153J
22kΩ		4250K±3%	(4300K)	P10549CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR223J
33kΩ		4250K±3%	(4300K)	P10550CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR333J
47kΩ		4250K±3%	(4300K)	P10551CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR473J
47kΩ	±5%	4050K±2%	(4100K)	P12015CT-ND *NEW!*	.45	.34	.24	.18	4,000	125.00/M	ERT-J1VP473J
68kΩ		4250K±3%	(4300K)	P10552CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VR683J
47kΩ		4700K±3%	(4750K)	P10553CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VV473J
68kΩ		4700K±3%	(4750K)	P10554CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VV683J
100kΩ		4700K±3%	(4750K)	P10555CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VV104J
100kΩ	±1%	(4330K)	4390K±1%	P12016CT-ND *NEW!*	.58	.43	.31	.23	4,000	160.00/M	ERT-J1VS104FA
100kΩ	±2%	(4330K)	4390K±1%	P12017CT-ND *NEW!*	.54	.40	.29	.21	4,000	148.00/M	ERT-J1VS104GA
100kΩ	±3%	(4330K)	4390K±1%	P12018CT-ND *NEW!*	.49	.37	.26	.19	4,000	135.00/M	ERT-J1VS104HA
100kΩ	±5%	(4330K)	4390K±1%	P12019CT-ND *NEW!*	.45	.34	.24	.18	4,000	125.00/M	ERT-J1VS104JA
150kΩ	±5%	4700K±3%	(4750K)	P10556CT-ND	.96	.84	.66	.54	4,000	143.66/M	ERT-J1VV154J

* For Tape & Reel part number, change “CT” to “TR”

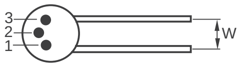
Panasonic

NTC Thermistors

1&2: Significant digit; 3: Multiplier



Uses standard resistance color codes.



FEATURES:

- Resistance temperature coefficient is negative and extremely large
- Wide selection of temperature coefficient (constant B)
- Excellent electrical and thermal stability
- Color coded to indicate resistance value @ 25°C

SPECIFICATIONS:

Max. Watt Rtg. (W): PNT100-123 – 0.4; PNT124-138 – 0.6. Nom. Time Constant (sec.): PNT100-123 – 20; PNT124-138 – 27.

APPLICATIONS:

- For measuring equipment: thermometer, wind gauge, liquid level gauge, temperature controller
- For temperature compensation: transistor circuit, measuring equipment
- For driving: Delay setting in relay operation, inrush current surge protection, communication equipment, AGC, time lag

F Type Dimensions	øD	T	l	W	ød
PNT100 ~ PNT123 (D2)	5.0 ± 0.5	1.3 ± 0.5	30 min.	2.5 ± 1	0.4
PNT124 ~ PNT138 (D3)	7.5 ± 0.5	1.4 ± 0.5	30 min.	5 ± 1	0.5

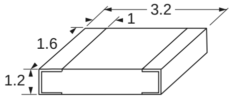
Res. at 25°C (Ω)	Temp. Coef. (25°C) %/°C	Res. Ratio R_{25}/R_{50}	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
20	–3.4	2.18	PNT100-ND	1.06	.91	.61	.38	ERT-D2FEL200S
40	–3.9	2.48	PNT101-ND	1.06	.91	.61	.38	ERT-D2FFL400S
75	–4.2	2.62	PNT102-ND	1.06	.91	.61	.38	ERT-D2FGL750S
100	–3.9	2.48	PNT104-ND	1.06	.91	.61	.38	ERT-D2FFL101S
100	–4.2	2.62	PNT105-ND	1.06	.91	.61	.38	ERT-D2FGL101S
170	–4.2	2.62	PNT106-ND	1.06	.91	.61	.38	ERT-D2FGL171S
250	–3.9	2.48	PNT107-ND	1.06	.91	.61	.38	ERT-D2FFL251S
250	–4.2	2.62	PNT108-ND	1.06	.91	.61	.38	ERT-D2FGL251S
300	–4.2	2.62	PNT109-ND	1.06	.91	.61	.38	ERT-D2FGL301S
350	–3.9	2.48	PNT110-ND	1.06	.91	.61	.38	ERT-D2FFL351S
600	–4.5	2.83	PNT111-ND	1.06	.91	.61	.38	ERT-D2FGL601S
800	–4.4	2.76	PNT112-ND	1.06	.91	.61	.38	ERT-D2FGL801S
1,000	–4.1	2.55	PNT113-ND	1.06	.91	.61	.38	ERT-D2FGL102S
1,400	–4.4	2.76	PNT114-ND	1.06	.91	.61	.38	ERT-D2FGL142S
2,000	–4.5	2.83	PNT115-ND	1.06	.91	.61	.38	ERT-D2FGL202S
3,300	–4.5	2.83	PNT116-ND	1.06	.91	.61	.38	ERT-D2FGL332S
4,600	–4.6	2.90	PNT117-ND	1.06	.91	.61	.38	ERT-D2FHL462S
8,000	–4.6	2.90	PNT118-ND	1.06	.91	.61	.38	ERT-D2FHL802S
10,000	–4.6	2.90	PNT119-ND	1.06	.91	.61	.38	ERT-D2FHL103S
15,000	–4.7	2.98	PNT120-ND	1.06	.91	.61	.38	ERT-D2FHL153S
33,000	–5.1	3.22	PNT121-ND	1.06	.91	.61	.38	ERT-D2FHL333S
50,000	–5.1	3.48	PNT122-ND	1.06	.91	.61	.38	ERT-D2FHL503S
150,000	–5.4	3.48	PNT123-ND	1.02	.88	.59	.37	ERT-D2FIL154S
8	–3.4	2.18	PNT124-ND	1.63	1.40	.93	.59	ERT-D3FEL8R0S
13	–3.6	2.30	PNT125-ND	1.63	1.40	.93	.59	ERT-D3FFL130S
16	–3.6	2.30	PNT126-ND	1.63	1.40	.93	.59	ERT-D3FFL160S
20	–3.6	2.30	PNT127-ND	1.63	1.40	.93	.59	ERT-D3FFL200S
30	–3.7	2.30	PNT128-ND	1.63	1.40	.93	.59	ERT-D3FFL300S
40	–3.2	2.30	PNT130-ND	1.63	1.40	.93	.59	ERT-D3FFL400S
75	–4.2	2.62	PNT131-ND	1.63	1.40	.93	.59	ERT-D3FGL750S
80	–4.2	2.62	PNT132-ND	1.63	1.40	.93	.59	ERT-D3FGL800S
130	–4.5	2.62	PNT134-ND	1.63	1.40	.93	.59	ERT-D3FGL131S
500	–4.6	2.83	PNT135-ND	1.63	1.40	.93	.59	ERT-D3FGL501S
4,000	–4.6	2.90	PNT136-ND	1.63	1.40	.93	.59	ERT-D3FHL402S
20,000	–5.1	3.22	PNT137-ND	1.63	1.40	.93	.59	ERT-D3FHL203S
80,000	–5.6	3.70	PNT138-ND	1.63	1.40	.93	.59	ERT-D3FIL803S

THERMOMETRICS
GLOBAL BUSINESS

NTC Thermistors

NHQ Series SMT Chip 1206

These devices are ceramic chip thermistors with a negative temperature coefficient of resistance intended for surface mount applications. The electrode material is palladium silver, nickel-plated with a solder-plated covering. The ceramic between the electrodes is glass covered.

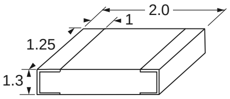


Res. @ 25°C. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 3,000	Thermometrics Part No.
3K	235-1108-1-ND	2.64	2.31	1.82	990.00/M	NHQ302B410T10
10K	235-1109-1-ND	2.64	2.31	1.82	990.00/M	NHQ103B375T10
15K	235-1110-1-ND	2.64	2.31	1.82	990.00/M	NHQ153B400T10
50K	235-1111-1-ND	2.64	2.31	1.82	990.00/M	NHQ503B400T10
100K	235-1112-1-ND	2.64	2.31	1.82	990.00/M	NHQ104B425T10
150K	235-1113-1-ND	2.64	2.31	1.82	990.00/M	NHQ154B425T10
500K	235-1114-1-ND	2.64	2.31	1.82	990.00/M	NHQ504B435T10

*For Tape and Reel part number, change -1-ND to -2-ND

NHQM Series SMT Chip 0805

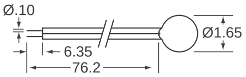
These devices are ceramic chip thermistors with a negative temperature coefficient of resistance intended for surface mount applications. The electrode material is palladium silver, nickel-plated with solder-plated covering. The ceramic between the electrodes is glass covered.



Res. @ 25°C. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 3,000	Thermometrics Part No.
3K	235-1115-1-ND	2.00	1.75	1.38	750.00/M	NHQM302B410T10
10K	235-1116-1-ND	2.00	1.75	1.38	750.00/M	NHQM103B375T10
15K	235-1117-1-ND	2.00	1.75	1.38	750.00/M	NHQM153B400T10
50K	235-1118-1-ND	2.00	1.75	1.38	750.00/M	NHQM503B415T10
100K	235-1119-1-ND	2.00	1.75	1.38	750.00/M	NHQM104B425T10

*For Tape and Reel part number, change -1-ND to -2-ND

MC65 Series

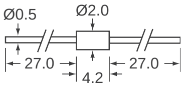


These thermistors are epoxy-coated for stability and have a maximum diameter of .065" (1.65mm). Standard leads are 3" (76.20mm) of 38 gauge, nickel alloy, bi-filar, heavy isomid insulated wire. Each unit tracks a specified curve over the temp. range of 0°C to 50°C (see table).

Temp. Range	Tolerance Code (±°C) 235-1057-ND	235-1058-ND	235-1059-ND
0°C to 20°C	±.15	±.2	±.25
20°C to 35°C	±.1	±.15	±.2
35°C to 39°C	±.05	±.1	±.15
39°C to 42°C	±.075	±.15	±.2
42°C to 45°C	±.1	±.15	±.2
45°C to 50°C	±.15	±.2	±.25

Res. @ 25°C. (Ω)	Digi-Key Part No.	Price Each 1	10	100	Thermometrics Part No.
10K	235-1057-ND	9.48	7.47	5.93	MC65F103A
10K	235-1058-ND	6.76	5.33	4.23	MC65F103B
10K	235-1059-ND	5.28	4.16	3.30	MC65F103C

DK Series

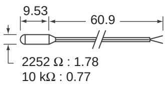


The DK range of DO-35 packaged NTC thermistors is designed for temperature measurement and control in applications which demand cost effective reliability. Typical applications include domestic appliances, automotive systems, data processing equipment and heating/ventilating/air conditioning control.

The hermetically-sealed construction combines the advantages of high temperature operation and high reliability of glass bead types with the closer tolerances associated with chip devices. The glass encapsulation offers the additional benefit of high voltage insulation.

Res. @ 25°C. (Ω)	Digi-Key Part No.	Price Each 1	10	100	Thermometrics Part No.
5K	235-1103-ND	2.09	1.80	1.24	DKA502N5
10K	235-1104-ND	2.09	1.80	1.24	DKF103N5
20K	235-1105-ND	2.09	1.80	1.24	DKF203N5
30K	235-1106-ND	2.09	1.80	1.24	DKF303N5
50K	235-1107-ND	2.09	1.80	1.24	DKF503N5

MA100 Series



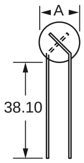
These biomedical thermistor chips and sub-assemblies are designed to be interchangeable over a 0°C to 50°C range (see table). Best overall stability is maintained when exposure and storage temperatures remain below 70°C.

Temp. Range	Tolerance Code (±°C) 235-1060/ 235-1064-ND	235-1061/ 235-1065-ND	235-1062/ 235-1063-ND
0°C to 20°C	±.15	±.2	±.25
20°C to 35°C	±.1	±.15	±.2
35°C to 39°C	±.05	±.1	±.15
39°C to 42°C	±.075	±.15	±.2
42°C to 45°C	±.1	±.15	±.2
45°C to 50°C	±.15	±.2	±.25

Res. @ 25°C. Ω	Digi-Key Part No.	Price Each 1	10	100	Thermometrics Part No.
10K	235-1060-ND	13.44	10.59	8.40	MA100GG103A
10K	235-1061-ND	9.56	7.53	5.98	MA100GG103B
10K	235-1062-ND	8.64	6.81	5.40	MA100GG103C
2252	235-1063-ND	8.64	6.81	5.40	MA100GG232C
10K	235-1064-ND	13.44	10.59	8.40	MA100BF103A
10K	235-1065-ND	9.56	7.53	5.98	MA100BF103B

Standard Thermistors For Temperature Measurement

Accuracy ±1°C (0°C to 120°C)



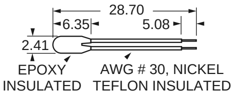
Operating Range: -50°C to 150°C **D.C.:** Dissipation Constant (mW/°C) **T.C.:** Time Constant (Seconds)

Res. @ 25°C. (Ω)	A Max. (mm)	D.C. mW/°C	T.C. Sec.	Digi-Key Part No.	Price Each 1	10	100	Thermometrics Part No.
1000	8.13	3.5	30	KC001E-ND	2.39	2.15	1.69	RL3005-574.0-103-SA
2000	5.59	2.5	20	KC002E-ND	2.30	2.07	1.63	RL2005-1148-103-SA
2786	5.59	2.5	20	KC003E-ND	2.30	2.07	1.63	RL2006-1600-103-SA
3000	5.59	2.5	20	KC004E-ND	2.30	2.07	1.63	RL2007-1723-103-SA
5000	2.79	1.0	10	KC005E-ND	2.88	2.60	2.05	RL1003-2871-103-SA
10000	2.79	1.0	10	KC006E-ND	2.88	2.60	2.05	RL1005-5744-103-SA

Miniature Sensors 1°C Accuracy

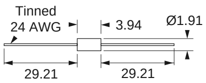
SPECIFICATIONS:

- Temp. Accuracy: ±1°C @ 25°C
- Dissipation Constant: 1.4 mW/°C
- Time Constant: 15 sec.
- Operating Range: -50°C to 150°C.



Res. @ 25°C. (Ω)	Temp. Coef. %/°C. @ 25°C	Mat'l	Digi-Key Part No.	Price Each 1	10	100	250	Thermometrics Part No.
2K	-3.83	MS73	KC001T-ND	2.71	2.44	1.92	1.52	RL0503-1248-73-MS
5K	-4.43	MS95	KC002T-ND	2.71	2.44	1.92	1.52	RL0503-2890-95-MS
10K	-4.40	MS97	KC003T-ND	2.71	2.44	1.92	1.52	RL0503-5820-97-MS
30K	-4.32	MS96	KC004T-ND	2.71	2.44	1.92	1.52	RL0503-17.56K-96-MS
50K	-4.84	MS120	KC005T-ND	2.71	2.44	1.92	1.52	RL0503-27.53K-120-MS
100K	-4.78	MS122	KC006T-ND	2.71	2.44	1.92	1.52	RL0503-55.36K-122-MS

Glass Encapsulated NTC Thermistors

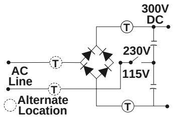


SPECIFICATIONS: • Temp. Range: -50°C to 204°C • Dissipation Constant: 3.0mW/°C • Time Constant: 7 sec.
Thermometrics glass encapsulated NTC thermistors are tiny pellets of thermistor material thermetically sealed in glass bodies with a controlled amount of selected atmosphere. The thermetic seal makes these parts extremely stable in applications up to 204°C (400°F).

Ro @ 25°C	Temp. Coef. %/°C @ 25°C	Material	Digi-Key Part No.	Price Each 1	10	100	250
250	-3.34	GE55*	KC001G-ND	2.66	2.39	1.89	1.50
500	-3.34	GE55*	KC002G-ND	2.66	2.39	1.89	1.50
1K	-3.83	GE73	KC003G-ND	2.66	2.39	1.89	1.50
2K	-3.83	GE73	KC004G-ND	2.66	2.39	1.89	1.50
2786	-4.68	GE101	KC005G-ND	2.66	2.39	1.89	1.50
3K	-3.85	GE76	KC006G-ND	2.66	2.39	1.89	1.50
4K	-3.85	GE76	KC007G-ND	2.66	2.39	1.89	1.50
5K	-3.85	GE76	KC008G-ND	2.66	2.39	1.89	1.50
10K	-4.41	GE97A	KC009G-ND	2.66	2.39	1.89	1.50
20K	-4.34	GE98	KC010G-ND	2.66	2.39	1.89	1.50
30K	-4.34	GE98	KC011G-ND	2.66	2.39	1.89	1.50
50K	-4.32	GE97B	KC012G-ND	2.66	2.39	1.89	1.50
100K	-4.32	GE97B	KC013G-ND	2.66	2.39	1.89	1.50
200K	-4.71	GE123	KC014G-ND	2.66	2.39	1.89	1.50
500K	-4.99	GE138	KC015G-ND	2.66	2.39	1.89	1.50
1M	-5.07	GE145	KC016G-ND	2.66	2.39	1.89	1.50

⋆ Maximum Operating Temperature: 150°C.

Inrush Current Limiters



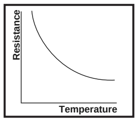
SPECIFICATIONS: • Inrush Current Limiters protect against high peak inrush current, especially in AC/DC switching power supplies • All resistances ±25% @ 25°C • All parts insulated with a protective coating Resistance under load is for reference only. Actual values may vary due to ambient temperature, air flow, or mounting conditions.

No Load Res. @ 25°C (Ω)	Max.• Steady State Current (Amps)	Approx. Res. @ I Max. (Ω)	Diameter (mm)	Digi-Key Part No.	Price Each 1	10	100
0.7	12.0	.02	19.56	KC022L-ND	2.58	2.32	1.83
1.3	8.0	.04	13.97	KC023L-ND	2.39	2.15	1.69
2.5	8.0	.06	19.56	KC003L-ND	2.58	2.32	1.83
5.0	6.0	.11	19.56	KC004L-ND	2.58	2.32	1.83
7.0	5.0	.16	19.56	KC005L-ND	2.58	2.32	1.83
10.0	5.0	.18	19.56	KC006L-ND	2.58	2.32	1.83
16.0	4.0	.27	19.56	KC007L-ND	2.58	2.32	1.83
47.0	3.0	.49	19.56	KC008L-ND	2.58	2.32	1.83
120.0	2.0	1.18	23.62	KC009L-ND	2.91	2.62	2.06
0.5	16.0	.02	23.62	KC024L-ND	4.18	3.76	2.96
10.0	3.2	.18	10.16	KC011L-ND	2.35	2.11	1.67
10.0	1.7	.34	10.16	KC012L-ND	2.35	2.11	1.67
50.0	1.6	.75	11.43	KC013L-ND	2.35	2.11	1.67
50.0	1.1	.89	11.43	KC014L-ND	2.35	2.11	1.67
5.0	4.7	.11	13.97	KC015L-ND	2.39	2.15	1.69
5.0	2.8	.20	13.97	KC016L-ND	2.39	2.15	1.69
16.0	2.7	.33	13.97	KC017L-ND	2.39	2.15	1.69
16.0	1.7	.49	13.97	KC018L-ND	2.39	2.15	1.69
25.0	2.4	.41	13.97	KC019L-ND	2.39	2.15	1.69
25.0	1.7	.49	13.97	KC020L-ND	2.39	2.15	1.69
30.0	1.5	.60	15.24	KC021L-ND	2.35	2.11	1.67

- These values are suggested maximums based upon 25°C ambient, no air flow environment with the thermistor mounted 1/2" from circuit board.

THERMOMETRICS
GLOBAL BUSINESS

NTC Thermistors



NTC (Negative Temperature Coefficient) Thermistors decrease in resistance as temperature increases. Temperature coefficients range from –20%/°C to –5%/°C @ 25°C. Maximum operating temperature: 150°C. Tolerance: ±20% 100-5Ω; ±10% 1K-100KΩ.

Res. @ 25°C (Ω)	Res. Ratio ††	D.C.†	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250
100	5.53	2.5	2.79	KC001N-ND⋆	2.76	2.48	1.96	1.55
50	5.53	6.5	5.59	KC012N-ND⋆	2.19	1.97	1.55	1.23
25	5.53	6.5	5.59	KC011N-ND⋆	2.19	1.97	1.55	1.23
10	5.53	7.0	8.13	KC021N-ND⋆	2.24	2.02	1.59	1.26
5	5.53	10.0	12.19	KC024N-ND⋆	2.40	2.16	1.71	1.35
1K	6.85	2.8	2.79	KC003N-ND⋆	2.72	2.45	1.93	1.53
500	6.85	2.5	2.79	KC002N-ND	2.72	2.45	1.93	1.53
300	6.85	6.5	5.59	KC015N-ND⋆	2.14	1.93	1.52	1.21
200	6.85	6.5	5.59	KC014N-ND⋆	2.14	1.93	1.52	1.21
100	6.85	6.5	5.59	KC013N-ND	2.14	1.93	1.52	1.21
50	6.85	7.5	9.40	KC022N-ND	2.19	1.98	1.56	1.24
10K	9.60	2.5	2.79	KC025N-ND⋆	2.72	2.45	1.93	1.53
5K	9.10	2.5	2.79	KC005N-ND⋆	2.72	2.45	1.93	1.53
3K	9.10	2.5	2.79	KC004N-ND⋆	2.72	2.45	1.93	1.53
2K	9.10	6.5	5.59	KC017N-ND⋆	2.14	1.93	1.52	1.21
1K	9.10	6.5	5.59	KC016N-ND	2.14	1.93	1.52	1.21
300	9.10	9.0	10.92	KC023N-ND	2.36	2.13	1.68	1.33
25K	11.41	2.8	2.79	KC007N-ND⋆	2.88	2.60	2.05	1.62
10K	11.41	7.2	5.59	KC018N-ND	2.44	2.20	1.73	1.38
100K	12.90	2.7	2.79	KC009N-ND⋆	2.88	2.60	2.05	1.62
50K	12.90	2.5	2.79	KC008N-ND	2.88	2.60	2.05	1.62
25K	12.90	6.5	5.59	KC019N-ND	2.35	2.12	1.67	1.33
200K	13.82	2.5	2.79	KC010N-ND⋆	2.88	2.60	2.05	1.62
100K	13.82	6.5	5.59	KC020N-ND	2.35	2.12	1.67	1.33

† D.C. — Dissipation Constant (MW/°C)
†† Resistance Ratio — ratio of zero power resistance @ 0°C to zero power resistance @ 50°C; AWG.

⋆ **KCNTC-KIT-ND** ***Digi-Key® NTC Thermistors Kit*** 2 each of 15 values denoted (30 total pieces). Notebook style storage case and bin storage guide included. **$39.95**

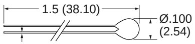
NTC Thermistors

THERMAL AND ELECTRICAL PROPERTIES: Dissipation Constant: (Still Air) 1 m w/Deg C., (Stirred Oil) 8 m w/Deg C. **Thermal Time Constant:** (Still Air) 10 Seconds, (Stirred Oil) 1 Second. **Maximum Power Rating:** .075 Watts (Derated from 100% at 25°C to 0% at 100°C.

Type EC95 and Type DC95 Thermistors may be used at temperatures as low as -80°C and as high as 150°C, however, best over-all stability is achieved with exposure or storage temperatures lower than 105°C.

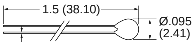
Thermometrics Type C100 Thermochips are low cost, epoxy coated chip thermistors which represent the highest level of thermistor technology. Thermometrics exclusive “state of the art” materials processing techniques have been proven through extensive field use and long term testing to provide stable, rugged, easy handling thermistors suitable for applications in the temperature range of -80°C to +150°C. Best stability is achieved at temperatures not exceeding 105°C.

Type C100



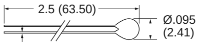
Ø.012 (0.30)-Tinned copper leads
Epoxy coated thermochip

Type DC95 Thermistors are designed to be interchangeable over 0°C to 70° and 0°C to 100°C.



Ø.012 (0.30)-Tinned copper leads
Epoxy coated thermochip

Type EC95 Thermistors are designed to be interchangeable over -20°C to 50°C and 0°C to 70°C.

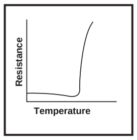


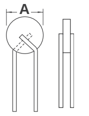
Ø.008 (0.20)-Tinned copper alloy leads
Epoxy coated thermochip

Res. @ 25°C (Ω)	Res. Ratio†	Digi Key Part No.	Price Each 1	10	100	250	Thermometrics Part No.
10K	9.06	235-1001-ND	5.80	4.57	3.63	2.69	C100F103G
10K	9.06	235-1002-ND	4.56	3.60	2.85	2.11	C100F103J
10K	7.60	235-1003-ND	4.56	3.60	2.85	2.11	C100Y103J
10K	9.06	235-1004-ND	6.36	5.01	3.98	2.95	DC95F103W
2K	9.06	235-1005-ND	6.36	5.01	3.98	2.95	DC95F202W
2252	9.06	235-1006-ND	6.36	5.01	3.98	2.95	DC95F232W
5K	9.06	235-1007-ND	6.36	5.01	3.98	2.95	DC95F502W
100K	10.45	235-1008-ND	6.36	5.01	3.98	2.95	DC95G104W
50K	10.45	235-1009-ND	6.36	5.01	3.98	2.95	DC95G503W
10K	9.06	235-1010-ND	6.36	5.01	3.98	2.95	EC95F103W
2K	9.06	235-1011-ND	5.52	4.35	3.45	2.56	EC95F202W
3K	9.06	235-1012-ND	6.36	5.01	3.98	2.95	EC95F302W
100K	10.45	235-1013-ND	6.36	5.01	3.98	2.95	EC95G104W
50K	10.45	235-1014-ND	6.36	5.01	3.98	2.95	EC95G503W
30K	8.69	235-1015-ND	6.36	5.01	3.98	2.95	EC95H303W

† 0°C/50°C Ratio

PTC Thermistors





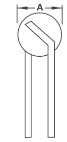
PTC (Positive Temperature Coefficient) Thermistors are thermally sensitive resistors made of polycrystalline ceramic materials. They are characterized by an extremely large resistance change in a small temperature span. All PTC resistances ±30% at 25°C. Tolerance on transition temperature is ±7°C.

Oper. Volt.	R @ 25°C (Ω)	Transition Temp.	D.C.†	Dim. A (mm)	Digi-Key* Part No.	Price Each 1	10	100
12	1	120°C	14.0	15.24	KC012P-ND	2.98	2.68	2.11
12	2	120°C	14.0	15.24	KC013P-ND	2.98	2.68	2.11
12	10	110°C	7.0	8.89	KC014P-ND	2.54	2.28	1.80
12	25	110°C	7.0	8.89	KC015P-ND	2.54	2.28	1.80
25	50	30°C	7.0	7.62	KC001P-ND*	2.54	2.28	1.80
25	50	40°C	7.0	7.62	KC002P-ND*	2.54	2.28	1.80
25	50	50°C	7.0	7.62	KC003P-ND*	2.54	2.28	1.80
25	50	60°C	7.0	7.62	KC004P-ND*	2.54	2.28	1.80
25	50	100°C	7.0	7.62	KC009P-ND*	2.54	2.28	1.80
25	50	110°C	7.0	7.62	KC010P-ND*	2.54	2.28	1.80
25	50	120°C	7.0	7.62	KC011P-ND*	2.54	2.28	1.80
50	10	110°C	10.0	11.43	KC017P-ND	3.26	2.93	2.31
50	50	110°C	12.0	11.43	KC018P-ND	2.98	2.68	2.11
50	200	110°C	9.0	10.16	KC019P-ND	3.26	2.93	2.31
120	20	120°C	18.0	16.51	KC021P-ND	3.05	2.74	2.16
120	25	60°C	15.0	15.24	KC022P-ND	3.05	2.74	2.16
120	50	120°C	12.0	12.70	KC023P-ND	2.98	2.68	2.11
240	40	110°C	18.0	16.51	KC024P-ND	3.26	2.93	2.31
240	50	65°C	17.0	15.24	KC025P-ND	3.26	2.93	2.31
240	50	110°C	18.0	16.51	KC026P-ND	3.26	2.93	2.31
240	100	120°C	18.0	16.51	KC027P-ND	3.26	2.93	2.31
240	1500	100°C	12.0	8.89	KC028P-ND	3.29	2.93	2.31
480	1000	100°C	18.0	19.05	KC029P-ND	3.81	3.43	2.70
480	2000	100°C	15.0	13.97	KC030P-ND	2.98	2.68	2.11
480	5000	100°C	12.0	8.89	KC031P-ND	3.26	2.93	2.31

† D.C. – Dissipation Constant (MW/°C)

* **KCPTC1-KIT-ND** ***Digi-Key® PTC Thermistors Kits*** 2 each of all values denoted (20 total pieces). Notebook style storage case and bin storage guide included. **$37.95**

PTC Resettable Fuses



- Telephone line fault protection
- Over-current protection for transformers
- Locked rotor protection for FHP motors

Minimum Limit Current: The minimum amount of current required by the PTC to guarantee switching at the minimum ambient temperatures.

Maximum Limit Current: The maximum amount of current the PTC must be able to pass without switching at the maximum ambient temperature.

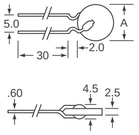
Oper. Volt.	No Ld. Res. @25°C	Dim. A (mm)	Min. Switch Current 0°C	20°C	Max. No-Switch Current 30°C	55°C	Type Number	Digi-Key Part No.	Price Each 1	10	100
12	1	15.24	1.45	1.32	0.84	0.64	RL5305-1-110-12-PTF	KC001R-ND	3.11	2.80	2.20
	2.5	15.24	0.92	0.84	0.53	0.40	RL5305-2.5-110-12-PTF	KC014R-ND	3.11	2.80	2.20
	5	11.43	0.55	0.50	0.32	0.24	RL4005-5-110-12-PTF	KC002R-ND	2.87	2.58	2.03
25	1.5	19.05	1.34	1.22	0.77	0.59	RL7008-1.5-110-25-PTF	KC015R-ND	3.87	3.48	2.75
	3.0	13.97	0.84	0.76	0.48	0.37	RL5008-3.0-110-25-PTF	KC016R-ND	3.22	2.90	2.29
50	5.0	15.24	0.65	0.59	0.37	0.29	RL5506-5-110-50-PTF	KC005R-ND	3.11	2.80	2.20
	10	11.43	0.39	0.35	0.22	0.17	RL4006-10-110-50-PTF	KC006R-ND	2.87	2.58	2.03
	25	12.70	0.27	0.24	0.15	0.12	RL4508-25-110-50-PTF	KC017R-ND	3.22	2.90	2.29
	50	11.43	0.19	0.17	0.11	0.08	RL4010-50-110-50-PTF	KC012R-ND	2.87	2.58	2.03
	100	10.67	0.13	0.12	0.08	0.06	RL3810-100-110-50-PTF	KC008R-ND	3.02	2.72	2.14
120	10	20.32	0.55	0.50	0.32	0.24	RL7510-10-110-120-PTF	KC009R-ND	3.87	3.48	2.75
	20	16.51	0.37	0.34	0.21	0.16	RL6010-20-110-120-PTF	KC018R-ND	3.11	2.80	2.20
	50	12.70	0.19	0.17	0.11	0.08	RL4510-50-110-120-PTF	KC010R-ND	3.22	2.90	2.29
	100	10.16	0.13	0.12	0.07	0.06	RL3510-100-110-120-PTF	KC011R-ND	3.02	2.72	2.14
240	50	16.51	0.23	0.21	0.13	0.10	RL6315-50-110-240-PTF	KC019R-ND	3.87	3.48	2.75
	100	16.51	0.16	0.15	0.09	0.04	RL6315-100-110-240-PTF	KC020R-ND	3.87	3.48	2.75
	250	16.51	0.10	0.06	0.06	0.05	RL6315-250-110-240-PTF	KC021R-ND	3.87	3.48	2.75

PTC Thermistors YM120 Series

Electrical Specifications Res. @ 25°C. Ω	Int(25°C)mA	It(25°C) mA	Int(55°C) mA	It(10°C) mA	Imo A	Vmax Vrms	Dim. A max	Digi-Key Part No.	Price Each 1	10	100	Thermometrics Part No.
1800	16	23	12	25	0.1	730	4.0mm	235-1072-ND	2.41	2.11	1.64	YM120C15N182
1200	20	28	16	31	0.1	610	4.0mm	235-1073-ND	2.41	2.11	1.64	YM120C20N122
600	28	40	22	44	0.2	540	4.0mm	235-1074-ND	2.41	2.11	1.64	YM120C30N601
300	39	55	30	60	0.2	450	4.0mm	235-1075-ND	2.41	2.11	1.64	YM120C45N301
150	57	80	44	88	0.2	265	4.0mm	235-1076-ND	2.41	2.11	1.64	YM120C60N151
100	70	98	54	108	0.4	265	4.5mm	235-1077-ND	1.46	1.28	.99	YM120C80N101
60	93	131	72	144	0.6	265	6.0mm	235-1078-ND	1.46	1.28	.99	YM120D105N600
45	110	155	85	170	0.7	265	7.0mm	235-1079-ND	1.46	1.28	.99	YM120D125N450
33	128	181	99	198	0.9	265	7.5mm	235-1080-ND	2.07	1.82	1.41	YM120D150N330
25	161	228	125	250	1.1	265	8.5mm	235-1081-ND	2.07	1.82	1.41	YM120D170N250
20	192	265	149	298	1.3	265	9.5mm	235-1082-ND	2.07	1.82	1.41	YM120D200N200
15	234	330	181	362	1.7	265	11.5mm	235-1083-ND	2.88	2.53	1.96	YM120D260N150
10	314	444	243	486	2.7	265	14.0mm	235-1084-ND	4.17	3.66	2.84	YM120D370N100
6	407	575	315	630	3.9	265	16.5mm	235-1085-ND	5.12	4.49	3.48	YM120D480N060

This range of PTC thermistors is designed to operate at main voltages and is intended for general purpose usage in over-current, over-voltage and direct over-temperature protection.

Each device in the range consists of a disc of barium titanate thermistor material with silvered faces and solder coated copper lead wires. A painted finish is applied which is not intended to confer insulating properties.



R25	Resistance at 25°C
20%	Tolerance on resistance at 25°C
Int(25°C)	Current which will not trip thermistor (25°C ambient)
It(25°C)	Current which will trip thermistor (25°C ambient)
Int(55°C)	Current which will not trip thermistor (55°C ambient)
It(10°C)	Current which will trip thermistor (10°C ambient)
I mo	Maximum overload current at 265V rms (10° ambient)
V max	Maximum voltage V ms
D max	Maximum disc diameter
T max	Maximum overall thickness

Panasonic® Surface Mount Chip Resistor Networks

Chip Resistor Networks -Series EXB-A, EXB-E and EXB-D

FEATURES:
• High Density: Bussed 8 resistors for pull up/down circuit in EXB-A Type 2512 (6.4mm x 3.1mm x 0.55mm), EXB-E Type 1608 (4.0mm x 2.1mm x 0.55mm), and EXB-D Type 1206 (3.2mm x 1.6mm x .55mm) size • Automatic Placement: Taped and reeled packaging is suitable for high speed automatic placement machine • 2 common terminals without directional problem • Superior Solderability: Self-alignment by unique concave terminal design with reflow soldering

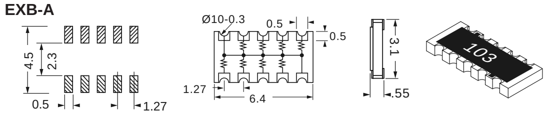
SPECIFICATIONS:
• Resistance Range: 47Ω to 1MΩ • Resistance Tolerance: ±5% • Number of Terminals: 10 terminals • Number of Resistors: 8 resistors • Power Rating at 70°C: 62.5mW/ element (50mW/element for EXB-D) • Maximum Rated Continuous Working Voltage†: EXB-A: 50V, EXB-E: 25V, and EXB-D: 25V • Maximum Overload Voltage: EXB-A: 100V, EXB-E: 50V, and EXB-D: 50V • Temperature Characteristic Range: ±200 ppm/°C • Operating Temperature Range: -55°C to 125°C • Solderability: 95% coverage (Test temperature at solder 230±5°C; Dwell time in solder: 5±1 seconds)

† Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Value}}$, or max. RCWV listed above, whichever is less.

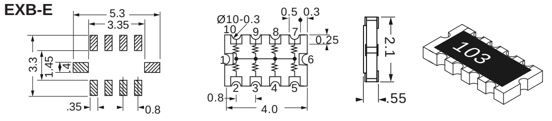
Resistance Codes
(Values listed in ohms)

Code (Value)	Code (Value)	Code (Value)
470 (47)	152 (1.5K)	473 (47K)
560 (56)	182 (1.8K)	563 (56K)
680 (68)	222 (2.2K)	683 (68K)
820 (82)	272 (2.7K)	823 (82K)
101 (100)	332 (3.3K)	104 (100K)
121 (120)	392 (3.9K)	124 (120K)
151 (150)	472 (4.7K)	154 (150K)
181 (180)	562 (5.6K)	184 (180K)
221 (220)	682 (6.8K)	224 (220K)
271 (270)	822 (8.2K)	274 (270K)
331 (330)	103 (10K)	334 (330K)
391 (390)	123 (12K)	394 (390K)
471 (470)	153 (15K)	474 (470K)
561 (560)	183 (18K)	564 (560K)
681 (680)	223 (22K)	684 (680K)
821 (820)	273 (27K)	824 (820K)
102 (1.0K)	333 (33K)	105 (1M)
122 (1.2K)	393 (39K)	

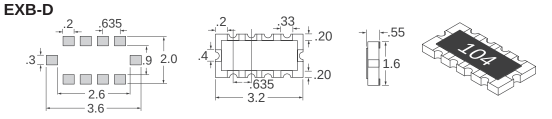
EXB-A



EXB-E



EXB-D



Digi-Key* Part No.	Cut Tape Pricing 1	10	100	500	1,000	Digi-Key* Part No.	Tape & Reel Pricing 4,000	5,000	8,000	10,000	Panasonic* Part No.
U7□□□CT-ND	.46	4.26	34.50	143.75	230.00	U7□□□TR-ND	209.00/M	—	177.00/M	—	EXB-A10P□□□J
U8□□□CT-ND	.42	3.89	31.50	131.25	210.00	U8□□□TR-ND	155.00/M	—	131.00/M	—	EXB-E10C□□□J
U9□□□CT-ND	.44	4.03	32.70	136.25	218.00	U9□□□TR-ND	—	155.00/M	—	131.00/M	EXB-D10C□□□J

* For complete part number, substitute the corresponding resistance code (listed above) for □□□.

Surface Mount Chip Resistor Arrays

FEATURES: **High Density:** • 2 resistors in 0.8mm x 0.6mm size (EXB-14V) • 2 resistors in 1.6mm x 1.6mm size (EXB-V4V) • 4 resistors in 3.2mm x 1.6mm size (EXB-V8V) • 2 resistors in 1.0mm x 1.0mm size (EXB-24V) • 4 resistors in 2.0mm x 1.0mm size (EXB-28V) • 2 resistors in 1.6mm x 1.6mm size (EXB-34V) • 4 resistors in 3.2mm x 1.6mm size (EXB-38V) • 8 resistors in 3.8mm x 1.6mm size (EXB-2HVa) • Improvement of placement efficiency: Placement efficiency of Chip Resistor Array is two or four times that of discrete chip resistors.

SPECIFICATIONS: • Resistance Tolerance: J: ±5% • Power Rating at 70°C: 1/16 with element • Maximum Rated Continuous Working Voltage‡: 50V; 25V for EXB-2HV; 12.5V for EXB-14V • Maximum Overload Voltage: 100V; 50V for EXB-2HV; 25V for EXB-14V • Temperature Characteristic Range: ±200ppm/°C • Operating Temperature Range: -55°C to 125°C • Storage Temperature Range: -55°C to 125°C

‡ Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Value}}$, or max. RCWV listed, whichever is less.

EXB-14V Series
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
000 (0.0)	470 (47)	271 (270)	152 (1.5K)	822 (8.2K)	473 (47K)	274 (270K)
100 (10)	560 (56)	331 (330)	182 (1.8K)	103 (10K)	563 (56K)	334 (330K)
120 (12)	680 (68)	391 (390)	222 (2.2K)	123 (12K)	683 (68K)	394 (390K)
150 (15)	820 (82)	471 (470)	272 (2.7K)	153 (15K)	823 (82K)	474 (470K)
180 (18)	101 (100)	561 (560)	332 (3.3K)	183 (18K)	104 (100K)	564 (560K)
220 (22)	121 (120)	681 (680)	392 (3.9K)	223 (22K)	124 (120K)	684 (680K)
270 (27)	151 (150)	821 (820)	472 (4.7K)	273 (27K)	154 (150K)	824 (820K)
330 (33)	181 (180)	102 (1.0K)	562 (5.6K)	333 (33K)	184 (180K)	105 (1M)
390 (39)	221 (220)	122 (1.2K)	682 (6.8K)	393 (39K)	224 (220K)	

EXB-V4V, EXB-V8V, EXB-24V, EXB-34V, EXB-38V
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

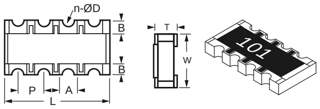
Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
000 (0.0)	3R3 (3.3)	120 (12)	151 (150)	182 (1.8K)	223 (22K)	274 (270K)
1R0 (1.0)	3R6 (3.6)	150 (15)	181 (180)	222 (2.2K)	273 (27K)	334 (330K)
1R1 (1.1)	3R9 (3.9)	180 (18)	221 (220)	272 (2.7K)	333 (33K)	394 (390K)
1R2 (1.2)	4R3 (4.3)	220 (22)	271 (270)	332 (3.3K)	393 (39K)	474 (470K)
1R3 (1.3)	4R7 (4.7)	270 (27)	331 (330)	392 (3.9K)	473 (47K)	564 (560K)
1R5 (1.5)	5R1 (5.1)	330 (33)	391 (390)	472 (4.7K)	563 (56K)	684 (680K)
1R6 (1.6)	5R6 (5.6)	390 (39)	471 (470)	562 (5.6K)	683 (68K)	824 (820K)
1R8 (1.8)	6R2 (6.2)	470 (47)	561 (560)	682 (6.8K)	823 (82K)	105 (1M)
2R0 (2.0)	6R8 (6.8)	560 (56)	681 (680)	822 (8.2K)	104 (100K)	
2R2 (2.2)	7R5 (7.5)	680 (68)	821 (820)	103 (10K)	124 (120K)	
2R4 (2.4)	8R2 (8.2)	820 (82)	102 (1.0K)	123 (12K)	154 (150K)	
2R7 (2.7)	9R1 (9.1)	101 (100)	122 (1.2K)	153 (15K)	184 (180K)	
3R0 (3.0)	100 (10)	121 (120)	152 (1.5K)	183 (18K)	224 (220K)	

EXB-2HV Series
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
000 (0.0)	6R8 (6.8)	560 (56)	471 (470)	392 (3.9K)	333 (33K)	274 (270K)
1R0 (1.0)	8R2 (8.2)	680 (68)	561 (560)	472 (4.7K)	393 (39K)	334 (330K)
1R2 (1.2)	100 (10)	820 (82)	681 (680)	562 (5.6K)	473 (47K)	394 (390K)
1R5 (1.5)	120 (12)	101 (100)	821 (820)	682 (6.8K)	563 (56K)	474 (470K)
1R8 (1.8)	150 (15)	121 (120)	102 (1.0K)	822 (8.2K)	683 (68K)	564 (560K)
2R2 (2.2)	180 (18)	151 (150)	122 (1.2K)	103 (10K)	823 (82K)	684 (680K)
2R7 (2.7)	220 (22)	181 (180)	152 (1.5K)	123 (12K)	104 (100K)	824 (820K)
3R3 (3.3)	270 (27)	221 (220)	182 (1.8K)	153 (15K)	124 (120K)	105 (1M)
3R9 (3.9)	330 (33)	271 (270)	222 (2.2K)	183 (18K)	154 (150K)	
4R7 (4.7)	390 (39)	331 (330)	272 (2.7K)	223 (22K)	184 (180K)	
5R6 (5.6)	470 (47)	391 (390)	332 (3.3K)	273 (27K)	224 (220K)	

EXB-V4V and EXB-V8V

No. of Res.	Dimensions n	L	W	T	A	B	øD	P
2	4	1.60	1.60	0.60	0.50	0.3	0.3	0.80
4	8	3.20	1.60	0.60	0.60	0.3	0.3	0.80



Isolated Terminals

Fig. 1 — 2 Resistors

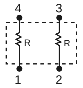


Fig. 2 — 4 Resistors

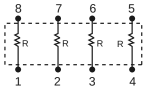
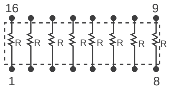
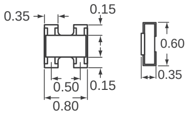


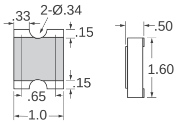
Fig. 3 — 8 Resistors



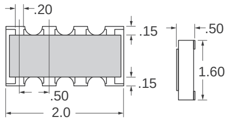
EXB-14V *NEW!*



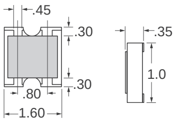
EXB-24V



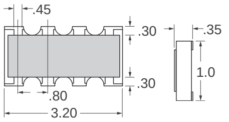
EXB-28V



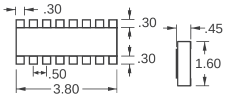
EXB-34V



EXB-38V



EXB-2HV



EXB-28V Series
Isolated Terminals Resistance Codes (E24 Values)
(Value listed in ohms)

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
000 (0.0)	5R6 (5.6)	360 (36)	221 (220)	132 (1.3K)	822 (8.2K)	513 (51K)	334 (330K)
1R0 (1.0)	6R2 (6.2)	390 (39)	241 (240)	152 (1.5K)	912 (9.1K)	563 (56K)	364 (360K)
1R1 (1.1)	6R8 (6.8)	430 (43)	271 (270)	162 (1.6K)	103 (10K)	623 (62K)	394 (390K)
1R2 (1.2)	7R5 (7.5)	470 (47)	301 (300)	182 (1.8K)	113 (11K)	683 (68K)	434 (430K)
1R3 (1.3)	8R2 (8.2)	510 (51)	331 (330)	202 (2.0K)	123 (12K)	753 (75K)	474 (470K)
1R5 (1.5)	9R1 (9.1)	560 (56)	361 (360)	222 (2.2K)	133 (13K)	823 (82K)	514 (510K)
1R6 (1.6)	100 (10)	620 (62)	391 (390)	242 (2.4K)	153 (15K)	913 (91K)	564 (560K)
1R8 (1.8)	110 (11)	680 (68)	431 (430)	272 (2.7K)	163 (16K)	104 (100K)	624 (620K)
2R0 (2.0)	120 (12)	750 (75)	471 (470)	302 (3.0K)	183 (18K)	114 (110K)	684 (680K)
2R2 (2.2)	130 (13)	820 (82)	511 (510)	332 (3.3K)	203 (20K)	124 (120K)	754 (750K)
2R4 (2.4)	150 (15)	910 (91)	561 (560)	362 (3.6K)	223 (22K)	134 (130K)	824 (820K)
2R7 (2.7)	160 (16)	101 (100)	621 (620)	392 (3.9K)	243 (24K)	154 (150K)	914 (910K)
3R0 (3.0)	180 (18)	111 (110)	681 (680)	432 (4.3K)	273 (27K)	164 (160K)	105 (1M)
3R3 (3.3)	200 (20)	121 (120)	751 (750)	472 (4.7K)	303 (30K)	184 (180K)	
3R6 (3.6)	220 (22)	131 (130)	821 (820)	512 (5.1K)	333 (33K)	204 (200K)	
3R9 (3.9)	240 (24)	151 (150)	911 (910)	562 (5.6K)	363 (36K)	224 (220K)	
4R3 (4.3)	270 (27)	161 (160)	102 (1.0K)	622 (6.2K)	393 (39K)	244 (240K)	
4R7 (4.7)	300 (30)	181 (180)	112 (1.1K)	682 (6.8K)	433 (43K)	274 (270K)	
5R1 (5.1)	330 (33)	201 (200)	122 (1.2K)	752 (7.5K)	473 (47K)	304 (300K)	

Fig.	No. of Res.	Resistor Value Range§	Digi-Key* Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key* Part No.	Tape & Reel Pricing 5,000	10,000	20,000	Panasonic* Part No.
1	2	E12	Y2□□□CT-ND	.48	4.20	15.00	25.80	Y2□□□TR-ND	17.00/M	16.00/M	—	EXB-V4V□□□JV
2	4	E12	Y4□□□CT-ND	.80	7.00	25.00	43.00	Y4□□□TR-ND	28.00/M	26.00/M	—	EXB-V8V□□□JV
1	2	E12	Y3□□□CT-ND *NEW!*	1.46	12.81	45.75	78.69	Y3□□□TR-ND *NEW!*	—	51.00/M	48.00/M	EXB-14V□□□JX
1	2	E12	Y5□□□CT-ND	1.00	8.75	31.25	53.75	Y5□□□TR-ND	—	34.00/M	33.00/M	EXB-24V□□□JX
2	4	E24	Y7□□□CT-ND	2.56	22.40	80.00	137.60	Y7□□□TR-ND	—	34.00/M	33.00/M	EXB-28V□□□JX
1	2	E12	Y8□□□CT-ND	.52	4.55	16.25	27.95	Y8□□□TR-ND	15.00/M	14.00/M	—	EXB-34V□□□JV
2	4	E12	Y9□□□CT-ND	.96	8.40	30.00	51.60	Y9□□□TR-ND	11.00/M	10.00/M	—	EXB-38V□□□JV
3	8	E12	Y1□□□CT-ND	1.80	15.75	56.25	96.75	Y1□□□TR-ND	61.00/M	59.00/M	—	EXB-2HV□□□JV

* For complete part number, substitute the corresponding resistance code (listed above) for □□□. Does not apply to to zero ohm. § E24 Resistance Values are available for other series. Please call Digi-Key for details.

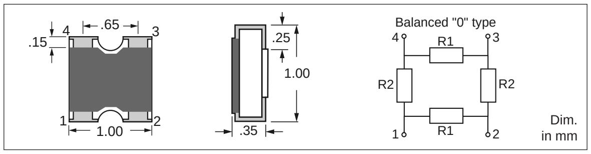
Panasonic®

Surface Mount 0404 Balanced 0 Type Chip Attenuator Series EXB-24AB

FEATURES: • Balanced "0" type attenuator circuit in one 0404 chip (1.0mm x 1.0mm) • Mounting occupation area reduction; –approx. 65% reduction compared with the attenuator circuit and consists of four discrete 0402 chip resistors; –approx. 26% reduction compared with the attenuator circuit and consists of four discrete 0201 chip resistors • Mounting time reduction: 4 times >>> 1time • Attenuation: 0dB to 10dB

APPLICATIONS: • Attenuation/level control/impedance matching of high frequency signals of communication equipment – cellular phones (GSM, CDMA, PDC, etc.), PHS, PDA, for example.

SPECIFICATIONS: • Rated Power: 0.040 W (40mW)/package • Frequency Range: DC to 2.5 GHz • VSWR (Voltage Standing Wave Ratio) 1.2 maximum (typical), 1.5 maximum (0 dB, typical) • Operating Temperature Range: -55°C to +125°C



Tolerance of Attenuation	Attenuation Value (dB)	R1 (Ω)	R2 (Ω)	Characteristic Impedance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 10,000	Panasonic Part No.
						10	100	500			
±0.8	0	0	open	0	P11153CT-ND	.25	.22	.16	P11153TR-ND	82.00/M	EXB-24AB00R8X
	1	5.77	1.74k	100	P11154CT-ND	.25	.22	.16	P11154TR-ND	82.00/M	EXB-24AB1CR8X
	2	11.6	872	100	P11155CT-ND	.25	.22	.16	P11155TR-ND	82.00/M	EXB-24AB2CR8X
	3	17.6	585	100	P11156CT-ND	.25	.22	.16	P11156TR-ND	82.00/M	EXB-24AB3CR8X
±1.0	6	37.4	301	100	P11157CT-ND	.25	.22	.16	P11157TR-ND	82.00/M	EXB-24AB6C1RX
±2.0	10	71.2	192	100	P11158CT-ND	.25	.22	.16	P11158TR-ND	82.00/M	EXB-24ABAC2RX
±0.8	1	11.5	3.48k	200	P11159CT-ND	.25	.22	.16	P11159TR-ND	82.00/M	EXB-24AB1ER8X
	2	23.2	1.74k	200	P11160CT-ND	.25	.22	.16	P11160TR-ND	82.00/M	EXB-24AB2ER8X
	3	35.2	1.17k	200	P11161CT-ND	.25	.22	.16	P11161TR-ND	82.00/M	EXB-24AB3ER8X
	6	74.7	602	200	P11162CT-ND	.25	.22	.16	P11162TR-ND	82.00/M	EXB-24AB6E1RX
	10	142	385	200	P11163CT-ND	.25	.22	.16	P11163TR-ND	82.00/M	EXB-24ABAE2RX
	1	17.3	5.22k	300	P11164CT-ND	.25	.22	.16	P11164TR-ND	82.00/M	EXB-24AB1GR8X
	2	34.8	2.62k	300	P11165CT-ND	.25	.22	.16	P11165TR-ND	82.00/M	EXB-24AB2GR8X
	3	52.8	1.75k	300	P11166CT-ND	.25	.22	.16	P11166TR-ND	82.00/M	EXB-24AB3GR8X
±1.0	6	112	903	300	P11167CT-ND	.25	.22	.16	P11167TR-ND	82.00/M	EXB-24AB6G1RX
±2.0	10	213	577	300	P11168CT-ND	.25	.22	.16	P11168TR-ND	82.00/M	EXB-24ABAG2RX

Panasonic®

Surface Mount 0404 Chip Attenuator

Series EXB-24AT

FEATURES:

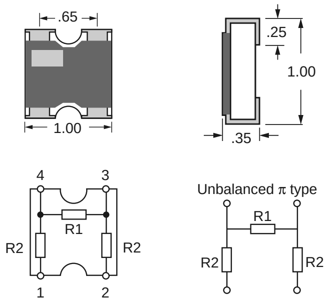
• Unbalanced π type attenuator circuit in one chip (1.0mm x 1.0mm) • Mounting occupation area reduction: about 50% reduction compared with attenuator circuit consisting of three 0402 chip resistors • Mounting Times reduction: 3 time >>> 1 time • Attenuation: 1dB to 10dB

APPLICATIONS:

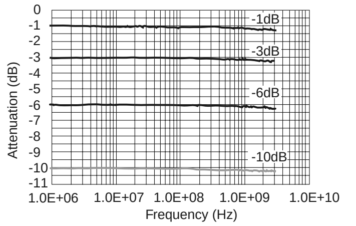
• Attenuation/level control/impedance matching of high frequency signals of communication equipment – cellular phones (GSM, CDMA, PDC, etc.), PHS, PDA, for example.

SPECIFICATIONS:

• Characteristic Impedance: 50Ω • Rated Power: 0.040 W (40 mW)/package • Frequency Range: DC to 2 GHz • VSWR (Voltage Standing Wave Ratio) 1.3 maximum



Attenuation - Frequency Characteristics (Typical)



Dim. in mm

Tolerance of Attenuation	Attenuation Value (dB)	R1 (Ω)	R2 (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 10,000	Panasonic Part No.
					10	100	500			
±0.3	1	5.77	870	P11103CT-ND	.18	.16	.12	P11103TR-ND	61.00/M	EXB-24AT1AR3X
	2	11.6	436	P11104CT-ND	.18	.16	.12	P11104TR-ND	61.00/M	EXB-24AT2AR3X
	3	17.6	292	P11105CT-ND	.18	.16	.12	P11105TR-ND	61.00/M	EXB-24AT3AR3X
	4	23.9	221	P11106CT-ND	.18	.16	.12	P11106TR-ND	61.00/M	EXB-24AT4AR3X
	5	30.4	179	P11107CT-ND	.18	.16	.12	P11107TR-ND	61.00/M	EXB-24AT5AR3X
±0.5	6	37.4	151	P11108CT-ND	.18	.16	.12	P11108TR-ND	61.00/M	EXB-24AT6AR5X
	10	71.2	96.3	P11109CT-ND	.18	.16	.12	P11109TR-ND	61.00/M	EXB-24ATAAR5X

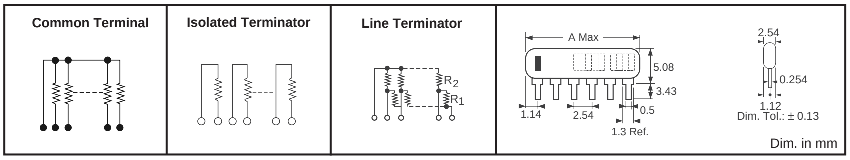
Panasonic®

2% Thick Film Resistor Networks

Low Profile, Single-In-Line Package, Highly Stable, Equivalent to MIL-R-83401

General Specifications:

Rated Power: Common: 125mW (70°C); Isolated: 200mW (60°C); Line Terminator: 75mW (70°C). **Rated Continuous Working Voltage** (RCWV): √ Rated Power x Resistance Value or 100V, whichever is less. **Operating Temperature Range:** –55°C ~ +125°C. **Storage Temperature Range:** –55°C ~ +150°C.



Common Terminal: Isolated Terminal: Resistance Codes

Code (Value)	Code (Value)
101 (100)	474 (470K)
151 (150)	561 (560)
152 (1.5K)	562 (5.6K)
153 (15K)	563 (56K)
154 (150K)	564 (560K)
221 (220)	681 (680)
223 (22K)	682 (6.8K)
224 (220K)	683 (68K)
331 (330)	684 (680K)
333 (33K)	821 (820)
334 (330K)	822 (8.2K)
473 (47K)	823 (82K)

Line Terminator: Resistance Codes

Code (R1/R2)
TO1 (160/240)
TO2 (180/390)
TO3 (220/270)
TO4 (220/330)
TO5 (330/390)
TO6 (330/470)
TO7 (330/680)
TO8 (1.5K/3.3K)

Res. Elements	No. of Pins	Dim. A (mm)	Digi-Key* Part No.	Pricing					Panasonic Part No.
				1	10	100	1,000	5,000	
Common Terminal									
5	6	14.88	Q5□□□-ND	.25	2.03	15.23	102.00	92.00/M	EXB-F6E□□□G
7	8	19.96	Q7□□□-ND	.33	2.67	19.99	133.00	121.00/M	EXB-F8E□□□G
9	10	25.04	Q9□□□-ND	.42	3.35	25.14	168.00	152.00/M	EXB-F10E□□□G
Isolated Terminator									
3	6	14.88	Q2□□□-ND	.25	2.03	15.23	102.00	92.00/M	EXB-F6V□□□G
4	8	19.96	Q4□□□-ND	.33	2.67	19.99	133.00	121.00/M	EXB-F8V□□□G
5	10	25.04	Q6□□□-ND	.42	3.35	25.14	168.00	152.00/M	EXB-F10V□□□G
Line Terminator									
8	6	14.88	Q0□□□-ND	.40	3.23	24.22	161.00	147.00/M	EXB-F6WT□□G
12	8	19.96	Q1□□□-ND	.54	4.32	32.39	216.00	196.00/M	EXB-F8WT□□G
16	10	25.04	Q3□□□-ND	.67	5.38	40.37	269.00	245.00/M	EXB-F10WT□□G

* For complete part number, substitute the corresponding resistance code (listed at left) for □□□.

Surface Mount Chip 3-Terminal Capacitor Array Series EZA-SC

FEATURES:

Suitable for EMI suppression filtering:

- The low residual inductance at high frequency range provides effective reduction of noise
- Equivalent noise reduction to the EMI filters with low cost design

Compact design for high density PWB assembly:

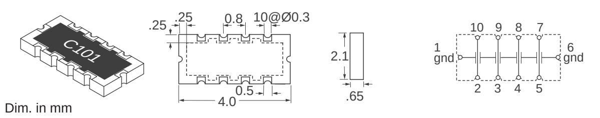
- 4.0 x 2.1 x 0.65mm
- Flat and square packages suitable for high speed automatic placement machine

Superior mountability with concave terminals:

- Firm solder joint (two times of convex terminal)
- Self-alignment of placement at reflow process

SPECIFICATIONS:

- Capacitance Tolerance: ±20% (+30% / -20% in the case of 22pf)
- Temperature Characteristic: △C: +20% / -55% (-25°C to +85°C)
- Dissipation Factor: Less than 2.0% (25°C, 1kHz – In measuring at 1MHz, capacitance value and dissipation factor are different, 1 Vrms)
- Rated Voltage: 25V
- Rated Current: 200mA (between input terminal and output terminal)
- Resistance: Less than 1.0Ω (between input terminal and output terminal)
- Operating Temperature Range: -25°C to +85°C



Dim. in mm

Volts (DC)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
25	22	P10192CT-ND	1.18	1.04	.89	.74	P10192TR-ND	414.00/M	EZA-SCE220M
25	47	P10193CT-ND	1.18	1.04	.89	.74	P10193TR-ND	414.00/M	EZA-SCE470M
25	100	P10194CT-ND	1.18	1.04	.89	.74	P10194TR-ND	414.00/M	EZA-SCE101M

Surface Mount Chip Capacitor Networks

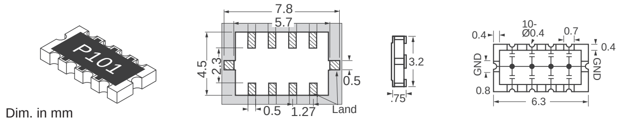
Series EZA-NP

FEATURES:

- Chip Capacitor Networks, exclusively developed by Panasonic thick film technology. Bussed 8 capacitors in one package (6.3 mm x 3.2 mm x 0.75 mm), half-pitch (0.65 mm) spacing for high density automatic placing
- Superior noise reduction by using two ground terminals
- Superior solderability by using Ni + Solder plating with unique concave terminals

SPECIFICATIONS:

- Capacitance Range: 47 pF, 100 pF, 220 pF
- Capacitance Tolerance: ±20%
- Temperature Characteristic:
  E Characteristic: +20% / -55% (-25°C to +85°C)
- Dissipation Factor: Less than 3.0% (25°C, 1 kHz, 1 Vrms)
- Rated Voltage: 25V
- Operating Temperature Range: -25°C to +85°C



Dim. in mm

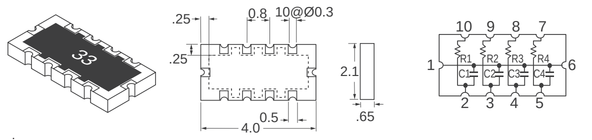
Volts (DC)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
25	47	PCN1001CT-ND	2.03	1.78	1.53	1.27	PCN1001TR-ND	710.00/M	EZA-NPE470M
25	100	PCN1002CT-ND	2.03	1.78	1.53	1.27	PCN1002TR-ND	710.00/M	EZA-NPE101M
25	220	PCN1003CT-ND	2.03	1.78	1.53	1.27	PCN1003TR-ND	710.00/M	EZA-NPE221M

F

Surface Mount Chip RC Networks

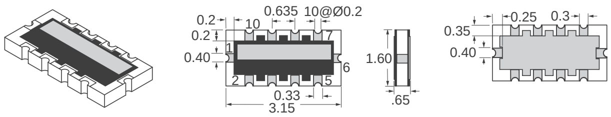
Series EZA-ST, EZA-DT and EZA-DL

EZA-ST Series



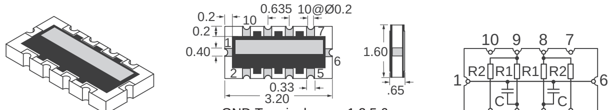
Dim. in mm

EZA-DT Series



Dim. in mm

EZA-DL Series



GND Terminal : 1,2,5,6
I/O Terminal : 3,4,8,9
Dummy Terminal : 7,10

Dim. in mm

Res. (Ohms)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
EZA-ST Series										
22	22	PST11CT-ND	1.18	1.04	.89	.74	PST11TR-ND	4,000	414.00/M	EZA-ST11AAAJ
	47	PST12CT-ND	1.18	1.04	.89	.74	PST12TR-ND	4,000	414.00/M	EZA-ST12AAAJ
	100	PST13CT-ND	1.18	1.04	.89	.74	PST13TR-ND	4,000	414.00/M	EZA-ST13AAAJ
47	22	PST21CT-ND	1.18	1.04	.89	.74	PST21TR-ND	4,000	414.00/M	EZA-ST21AAAJ
	47	PST22CT-ND	1.18	1.04	.89	.74	PST22TR-ND	4,000	414.00/M	EZA-ST22AAAJ
	100	PST23CT-ND	1.18	1.04	.89	.74	PST23TR-ND	4,000	414.00/M	EZA-ST23AAAJ
100	22	PST31CT-ND	1.18	1.04	.89	.74	PST31TR-ND	4,000	414.00/M	EZA-ST31AAAJ
	47	PST32CT-ND	1.18	1.04	.89	.74	PST32TR-ND	4,000	414.00/M	EZA-ST32AAAJ
	100	PST33CT-ND	1.18	1.04	.89	.74	PST33TR-ND	4,000	414.00/M	EZA-ST33AAAJ
220	22	PST41CT-ND	1.18	1.04	.89	.74	PST41TR-ND	4,000	414.00/M	EZA-ST41AAAJ
	47	PST42CT-ND	1.18	1.04	.89	.74	PST42TR-ND	4,000	414.00/M	EZA-ST42AAAJ
	100	PST43CT-ND	1.18	1.04	.89	.74	PST43TR-ND	4,000	414.00/M	EZA-ST43AAAJ
470	22	PST51CT-ND	1.18	1.04	.89	.74	PST51TR-ND	4,000	414.00/M	EZA-ST51AAAJ
	47	PST52CT-ND	1.18	1.04	.89	.74	PST52TR-ND	4,000	414.00/M	EZA-ST52AAAJ
	100	PST53CT-ND	1.18	1.04	.89	.74	PST53TR-ND	4,000	414.00/M	EZA-ST53AAAJ
1K	22	PST61CT-ND	1.18	1.04	.89	.74	PST61TR-ND	4,000	414.00/M	EZA-ST61AAAJ
	47	PST62CT-ND	1.18	1.04	.89	.74	PST62TR-ND	4,000	414.00/M	EZA-ST62AAAJ
	100	PST63CT-ND	1.18	1.04	.89	.74	PST63TR-ND	4,000	414.00/M	EZA-ST63AAAJ
EZA-DT Series										
22	22	PDT11CT-ND	.64	.56	.48	.40	PDT11TR-ND	5,000	223.00/M	EZA-DT11AAAJ
	47	PDT12CT-ND	.64	.56	.48	.40	PDT12TR-ND	5,000	223.00/M	EZA-DT12AAAJ
	100	PDT13CT-ND	.64	.56	.48	.40	PDT13TR-ND	5,000	223.00/M	EZA-DT13AAAJ
47	22	PDT21CT-ND	.64	.56	.48	.40	PDT21TR-ND	5,000	223.00/M	EZA-DT21AAAJ
	47	PDT22CT-ND	.64	.56	.48	.40	PDT22TR-ND	5,000	223.00/M	EZA-DT22AAAJ
	100	PDT23CT-ND	.64	.56	.48	.40	PDT23TR-ND	5,000	223.00/M	EZA-DT23AAAJ
100	22	PDT31CT-ND	.64	.56	.48	.40	PDT31TR-ND	5,000	223.00/M	EZA-DT31AAAJ
	47	PDT32CT-ND	.64	.56	.48	.40	PDT32TR-ND	5,000	223.00/M	EZA-DT32AAAJ
	100	PDT33CT-ND	.64	.56	.48	.40	PDT33TR-ND	5,000	223.00/M	EZA-DT33AAAJ
220	22	PDT41CT-ND	.64	.56	.48	.40	PDT41TR-ND	5,000	223.00/M	EZA-DT41AAAJ
	47	PDT42CT-ND	.64	.56	.48	.40	PDT42TR-ND	5,000	223.00/M	EZA-DT42AAAJ
	100	PDT43CT-ND	.64	.56	.48	.40	PDT43TR-ND	5,000	223.00/M	EZA-DT43AAAJ
470	22	PDT51CT-ND	.64	.56	.48	.40	PDT51TR-ND	5,000	223.00/M	EZA-DT51AAAJ
	47	PDT52CT-ND	.64	.56	.48	.40	PDT52TR-ND	5,000	223.00/M	EZA-DT52AAAJ
	100	PDT53CT-ND	.64	.56	.48	.40	PDT53TR-ND	5,000	223.00/M	EZA-DT53AAAJ
1K	22	PDT61CT-ND	.64	.56	.48	.40	PDT61TR-ND	5,000	223.00/M	EZA-DT61AAAJ
	47	PDT62CT-ND	.64	.56	.48	.40	PDT62TR-ND	5,000	223.00/M	EZA-DT62AAAJ
	100	PDT63CT-ND	.64	.56	.48	.40	PDT63TR-ND	5,000	223.00/M	EZA-DT63AAAJ
EZA-DL Series										
27/15K	47	PDLU01CT-ND	.41	.36	.31	.26	PDLU01TR-ND	5,000	143.00/M	EZA-DLU01AAJ
15/15K	47	PDLU02CT-ND	.41	.36	.31	.26	PDLU02TR-ND	5,000	143.00/M	EZA-DLU02AAJ

FEATURES:

EZA-DT Series: Smallest SMD R/C networks

- Four popular noise reduction circuits made from damping resistors and bypass capacitors in a smallest chip
  EZAST: 4.0 x 2.1 x 0.65 mm, 0.8 mm pitch
  EZADT: 3.2 x 1.6 x 0.65 mm, 0.635 mm pitch
- Smaller occupied space than discrete 0402 (1.0 x 0.5 mm) chips
  EZAST: 70% of 0402 (1.0x0.5 mm) chips placing area
  EZADT: 50% of 0402 (1.0x0.5 mm) chips placing area

EZA-DL Series: Smallest SMD R/C filter for USB interface

- Including 2 circuits of π type R/C filter in a chip (Chip size: 3.2 x 1.6 mm)
- Space saving and low placing cost

EZA-ST, EZA-DT and EZA-DL Series: Superior mountability with concave terminal

- Firm solder joint (two times of convex terminal)
- Self-alignment of placement at reflow soldering

Recommended Applications for EZA-DL Series:

- Information and amusement equipment containing USB interface

SPECIFICATIONS:

- Resistance Tolerance: ±5%
- TCR: ±200 ppm/°C
- Rated Power: 0.063 W (≤70°C*)* – *For resistors operated in ambient temperature above 70°C, rated power shall be derated*
- Maximum Rated Continuous Working Voltage: 25 V *(Rated Voltage for resistor shall be determined from* $\sqrt{}$*Rated Power x Resistance Value, or Limiting Element Voltage [Max. Rated Continuous Working Voltage], whichever is less.)*
- Capacitance Tolerance: +30%/-20%
- Capacitance Temperature Characteristic: E Characteristic: +20% / -55% (-25°C to +85°C)
- Dissipation Factor: Less than 3.% (25°C, 1kHz - *In measuring at 1MHz, capacitance and dissipation factor are different,* 1 Vrms)
- Rated Voltage:
  EZA-ST: 25V
  EZA-DT and EZA-DL: 12V
- Operating Temperature Range: -25°C to +85°C

CTS CLEARONE™

BGA Terminators and Bias Networks

• Ceramic BGA Packaging • High density form factor • Designed for termination of parallel data busses • Designed for high frequency data transmission • Virtually eliminates parasitic capacitance and inductance • Ultra low channel capacitance • Flexible form factor; 1mm and 1.27mm pitch • *All dimensions in mm*

Now including Top Probe-able Devices†

The use of ball grid array (BGA) devices during the development phase of a project can represent some unique challenges in terms of circuit probing and device removal should device parameters need to be altered. CTS introduced the Top Probe-able devices to provide easy access to the internal circuitry of the BGA device without probing of the solder spheres, and eliminate the space consumed by test points on the circuit board. For parts available in Top Probe Configuration see Digi-Key parts marked with †.

DDR SDRAM Terminators

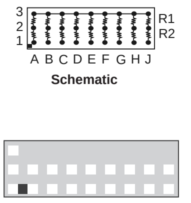
Features:

• 18 Bit SSTL_2 Termination Sets • Compliant to JEDEC Std. 8-9

Electrical Specifications:

- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to Exceed Total Network Power)
- **Package Power Rating:** 1.0 Watt at 70°C
- **Temperature Coefficient of Resistance:** ±200 ppm/°C
- **Operating Temperature Range:** -55°C to +125°C

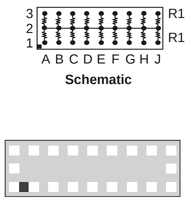
Fig. 1



Schematic

Top Probe-able

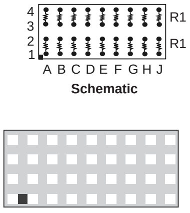
Fig. 2



Schematic

Top Probe-able

Fig. 3



Schematic

Top Probe-able

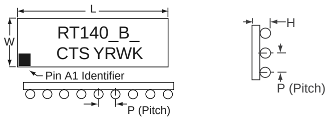


Fig. 1 and 2

Pitch	L	W	H
1.27	11.43	3.81	1.32
1.00	9.00	3.00	1.19

Fig. 3

Pitch	L	W	H
1.27	11.43	5.08	1.32
1.00	9.00	4.00	1.19

Fig.	R1 Ohms	R2 Ohms	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Pricing* 1,000	CTS Part No.
1	60	25	3x9	1.27	RT1408B6CT-ND	2.29	1.83	885.00	RT1408B6TR7
	60	25	3x9	1.27	RT1408B6PCT-ND†	2.52	2.02	973.00	RT1408B6P
	60	25	3x9	1.00	RT1408B7CT-ND	2.45	1.96	947.00	RT1408B7TR7
	60	25	3x9	1.00	RT1408B7PCT-ND†	2.69	2.16	1041.00	RT1408B7P
	50	25	3x9	1.27	RT1400B6CT-ND	2.29	1.83	885.00	RT1400B6TR7
	50	25	3x9	1.27	RT1400B6PCT-ND†	2.52	2.02	973.00	RT1400B6P
	50	25	3x9	1.00	RT1400B7CT-ND	2.45	1.96	947.00	RT1400B7TR7
	50	25	3x9	1.00	RT1400B7PCT-ND†	2.69	21.54	1041.00	RT1400B7P
	25	22	3x9	1.27	RT1401B6CT-ND	2.29	1.83	885.00	RT1401B6TR7
	25	22	3x9	1.00	RT1401B7CT-ND	2.45	1.96	947.00	RT1401B7TR7
2	50	—	3x9	1.27	RT1402B6CT-ND	2.29	1.83	885.00	RT1402B6TR7
	50	—	3x9	1.27	RT1402B6PCT-ND†	2.52	2.02	973.00	RT1402B6P
	50	—	3x9	1.00	RT1402B7CT-ND	2.45	1.96	947.00	RT1402B7TR7
	50	—	3x9	1.00	RT1402B7PCT-ND†	2.69	2.16	1041.00	RT1402B7P
	35	—	3x9	1.27	RT1407B6CT-ND	2.29	1.83	885.00	RT1407B6TR7
	35	—	3x9	1.27	RT1407B6PCT-ND†	2.69	2.16	1041.00	RT1407B6P
	35	—	3x9	1.00	RT1407B7CT-ND	2.45	1.96	947.00	RT1407B7TR7
	35	—	3x9	1.00	RT1407B7PCT-ND†	2.69	2.16	1041.00	RT1407B7P
	25	—	3x9	1.27	RT1403B6CT-ND	2.29	1.83	885.00	RT1403B6TR7
	25	—	3x9	1.00	RT1403B7CT-ND	2.45	1.96	947.00	RT1403B7TR7
3	25	—	4x9	1.27	RT1404B6CT-ND	2.69	2.16	1040.00	RT1404B6TR7
	25	—	4x9	1.27	RT1404B6PCT-ND†	2.96	2.37	1144.00	RT1404B6P
	25	—	4x9	1.00	RT1404B7CT-ND	2.85	2.28	1102.00	RT1404B7TR7
	25	—	4x9	1.00	RT1404B7PCT-ND†	3.14	2.51	1212.00	RT1404B7P
	22	—	4x9	1.27	RT1405B6CT-ND	2.69	2.16	1040.00	RT1405B6TR7
	22	—	4x9	1.27	RT1405B6PCT-ND†	2.96	2.37	1144.00	RT1405B6P
	22	—	4x9	1.00	RT1405B7CT-ND	2.85	2.28	1102.00	RT1405B7TR7
	22	—	4x9	1.00	RT1405B7PCT-ND†	3.14	2.51	1212.00	RT1405B7P

*For Tape & Reel Part No. change CT to TR. †Top Probe-able Devices.

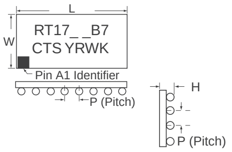
LVDS Terminators

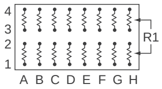
Features:

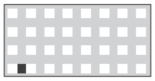
- Designed for termination of Xilinx® and Altera® FPGAs
- 8 or 16 differential channels of termination provided in a single intergrated package

Electrical Specifications:

- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.068 Watts @ 70°C
- **Maximum Package Power:** 1.0 Watts @ 70°C
- **Temperature Coefficient of Resistance:** ±200ppm/°C
- **Operating Temperature Range:** -55°C to +125°C







Top Probe-able

Part No.	L	W	H
RT1710B6	10.16	5.08	1.32
RT1710B7	8.00	4.00	1.19

R1 Ohms	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Pricing* 1,000	CTS Part No.
100	4x8	1.27	RT1710B6CT-ND	2.03	1.62	783.00	RT1710B6TR7
100	4x8	1.27	RT1710B6PCT-ND†	2.23	1.79	861.00	RT1710B6P
100	4x8	1.00	RT1710B7CT-ND	2.17	1.74	838.00	RT1710B7TR7
100	4x8	1.00	RT1710B7PCT-ND†	2.39	1.91	922.00	RT1710B7P

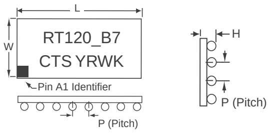
*For Tape & Reel Part No. change CT to TR. †Top Probe-able Devices.

CompactPCI Terminators

Features: 16 or 32 Bit Terminators

Electrical Specifications:

- **Resistor Tolerance:** ±5.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C
- **Maximum Package Power:** RT1200B7 = 0.8 Watts at 70°C, RT1201B7 = 1.6 Watts at 70°C
- **Temperature Coefficient of Resistance:** ±200 ppm/°C
- **Operating Temp. Range:** -55°C to +125°C



Part No.	L	W	H
RT1200B7	8.00	4.00	1.19
RT1201B7	16.00	4.00	1.19

Fig. 1

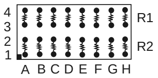
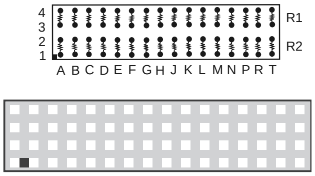


Fig. 2



Top Probe-able

Fig.	R1 Ohms	No. Bits	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Pricing* 1,000	CTS Part No.
1	10	16	4x8	1.00	RT1200B7CT-ND	2.17	1.74	838.00	RT1200B7TR7
2	10	32	4x16	1.00	RT1201B7CT-ND RT1201B7PCT-ND†	3.61 3.97	2.89 3.18	1396.00 1536.00	RT1201B7TR7 RT1201B7P

*For Tape & Reel Part No. change CT to TR. †Top Probe-able Devices.

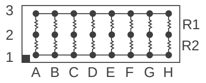
LVPECL Terminators

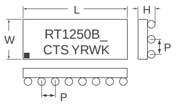
Features:

- 8 Bit Thevenin Termination Set
- Compliant for LVPECL Termination

Electrical Specifications:

• **Resistor Tolerance:** ±1.0% • **Maximum Resistor Power:** R1= 0.08 Watts at 70°C, R2 = 0.08 Watts at 70°C • **Maximum Package Power:** 1.0 Watts at 70°C • **Temperature Coefficient of Resistance:** ±200 ppm /°C • **Operating Temperature Range:** -55° to +125°C





Part No.	L	W	H
RT1250B6	10.16	3.81	1.32
RT1250B7	8.00	3.00	1.19

R1 Ohms	R2 Ohms	No. Bits	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Pricing* 1,000	CTS Part No.
127	82.5	8	1.27	RT1250B6CT-ND	2.09	1.67	806.00	RT1250B6TR7
127	82.5	8	1.00	RT1250B7CT-ND	2.25	1.80	870.00	RT1250B7TR7

*For Tape & Reel Part No. change CT to TR.

(Continued)

Memory and IDE Terminators

Features: • 16 or 32 Bit Terminators • Ultra Low I/O Coupling

Electrical Specifications: • **Resistor Tolerance:** ±5.0%
• **Maximum Resistor Power:** 0.05 Watts at 70°C
• **Maximum Package Power:** RT1202B7 = 0.8 Watts at 70°C, RT1203B7 = 1.6 Watts at 70°C
• **Temperature Coefficient of Resistance:** ±200 ppm/°C
• **Operating Temperature Range:** -55°C to +125°C

Fig. 1

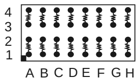
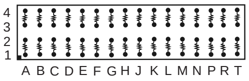
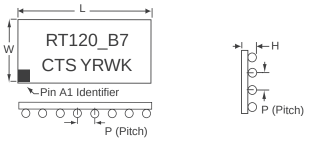


Fig. 2





Part No.	L	W	H
RT1202B7	8.00	4.00	1.19
RT1203B7	16.00	4.00	1.19

Fig.	R1 Ohms	No. Bits	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
1	33	16	4 x 8	1.00	RT1202B7CT-ND	2.17	1.74	838.00	RT1202B7TR7
2	33	32	4 x 16	1.00	RT1203B7CT-ND	3.98	3.18	1537.00	RT1203B7TR7

*For Tape & Reel Part No., change CT to TR.

GTL, GTL+, AGTL+ Terminators

Features:

• 8-Bit, 16-Bit, and 32-Bit Termination Sets • Compliant for GTL, GTL+, and AGTL+ Termination

Electrical Specifications:

• **Resistor Tolerance:** ±1.0%
• **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to Exceed Maximum Package Power)
• **Maximum Package Power (70°C):** 8 bit = 0.3 Watts, 16 bit = 0.6 Watts, 32 bit = 1.2 Watts
• **Temperature Coefficient of Resistance:** ±200 ppm/°C
• **Operating Temperature Range:** -55°C to +125°C

Fig. 1

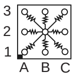


Fig. 2

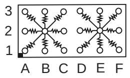
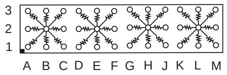
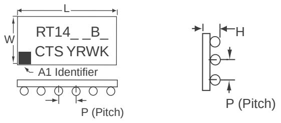


Fig. 3





No. Bits	Pitch (mm)	L	W	H
8	1.27	3.81	3.81	1.32
16	1.27	7.62	3.81	1.32
32	1.27	15.24	3.81	1.32
32	1.00	12.00	3.00	1.19

Fig.	R1 Ohms	No. Bits	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
1	25	8	1.27	RT1450B6CT-ND	1.25	1.00	481.00	RT1450B6TR7
	56	8	1.27	RT1453B6CT-ND	1.25	1.00	481.00	RT1453B6TR7
	150	8	1.27	RT1410B6CT-ND	1.25	1.00	481.00	RT1410B6TR7
2	25	16	1.27	RT1451B6CT-ND	1.89	1.51	729.00	RT1451B6TR7
	56	16	1.27	RT1454B6CT-ND	1.89	1.51	729.00	RT1454B6TR7
	150	16	1.27	RT1411B6CT-ND	1.89	1.51	729.00	RT1411B6TR7
3	25	32	1.27	RT1452B6CT-ND	3.05	2.44	1179.00	RT1452B6TR7
	56	32	1.27	RT1427B6CT-ND	3.05	2.44	1179.00	RT1427B6TR7
	150	32	1.27	RT1412B6CT-ND	3.05	2.44	1179.00	RT1412B6TR7
	150	32	1.00	RT1412B7CT-ND	3.21	2.57	1241.00	RT1412B7TR7

*For Tape & Reel Part No., change CT to TR.

PCI and PCIX Bias Networks

Features: • 8 or 16 Bit Bias Network • Compliant to PCI and PCIX

Electrical Specifications:

• **Resistor Tolerance:** ±1.0% • **Maximum Resistor Power:** 0.05 Watts at 70°C • **Maximum Package Power:** 1.0 Watts at 70°C • **Temperature Coefficient of Resistance:** ±100 ppm/°C • **Operating Temperature Range:** -55° to +125°C

Fig. 1

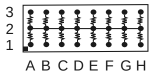
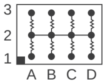
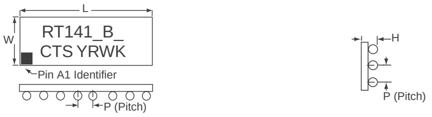


Fig. 2





Part No.	L	W	H
RT1415B6 RT1416B6	5.08	3.81	1.32
RT1417B6 RT1418B6	10.16	3.81	1.32

Part No.	L	W	H
RT1415B7 RT1416B7	4.00	3.00	1.19
RT1417B7 RT1418B7	8.00	3.00	1.19

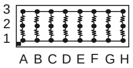
Fig.	R Ohms	No. Bits	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
1	4.7K	16	3x8	1.27	RT1417B6CT-ND	1.81	1.45	699.00	RT1417B6TR7
	4.7K	16	3x8	1.00	RT1417B7CT-ND	1.97	1.58	760.00	RT1417B7TR7
	8.2K	16	3x8	1.27	RT1418B6CT-ND	1.81	1.45	699.00	RT1418B6TR7
	8.2K	16	3x8	1.00	RT1418B7CT-ND	1.97	1.58	760.00	RT1418B7TR7
2	4.7K	8	3x4	1.27	RT1415B6CT-ND	1.32	1.06	512.00	RT1415B6TR7
	4.7K	8	3x4	1.00	RT1415B7CT-ND	1.49	1.19	574.00	RT1415B7TR7
	8.2K	8	3x4	1.27	RT1416B6CT-ND	1.32	1.06	512.00	RT1416B6TR7
	8.2K	8	3x4	1.00	RT1416B7CT-ND	1.49	1.19	574.00	RT1416B7TR7

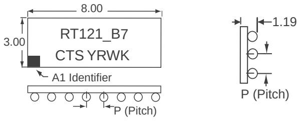
*For Tape & Reel Part No., change CT to TR.

VME64, VME64x Terminator

Features: • 8-Bit Termination Network • VME64, VME64x Compliant

Electrical Specifications: • **Resistor Tolerance:** ±1.0% • **Maximum Resistor Power:** 0.05 Watts at 70°C
• **Maximum Package Power:** 1.0 Watts at 70°C • **Temperature Coefficient of Resistance:** ±200 ppm/°C
• **Operating Temperature Range:** -55°C to +125°C





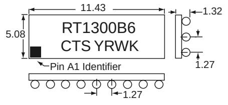
R1 Ohms	R2 Ohms	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
330	470	3 x 8	1.00	RT1210B7CT-ND	1.97	1.58	760.00	RT1210B7TR7
220	1800	3 x 8	1.00	RT1211B7CT-ND	1.97	1.58	760.00	RT1211B7TR7

*For Tape & Reel Part No., change CT to TR.

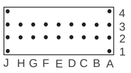
RT1300 Low Voltage Differential SCSI Active Termination Network

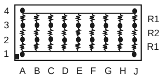
Features: • 9-Line LVD Termination Network • Ultra2, Ultra3 Compliant • Low Channel Capacitance Less Than 0.25pF • Laser Trimmed to 1% Tolerance

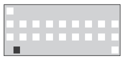
Electrical Specifications: • **Resistor Tolerance:** ±1.0% • **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to exceed maximum package power) • **Maximum Package Power (70°C):** 1.0 Watt • **Temperature Coefficient of Resistance:** ±200 ppm/°C • **Operating Temperature Range:** -55°C to +125°C



Bottom View







NEW! **Top Prob-able**

R1 Ohms	R2 Ohms	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part Number
475	121	1.27	RT1300B6CT-ND	2.81	2.25	1086.00	RT1300B6TR7
475	121	1.27	RT1300B6PCT-ND † *NEW!*	3.09	2.48	1195.00	RT1300B6P

*For Tape & Reel Part No. change CT to TR. †Top Probe-able Devices.

CTS

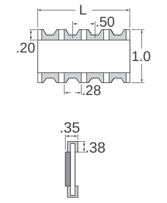
Thick Film Chip Resistor Arrays

Features: • Thick Film Chip Resistor Arrays High Density Packaging: 30% less space per resistor than 0603 chip resistors and 75% less space per resistor than 0805 chip resistors **• Placement Efficiency:** Require fewer placements than discrete components, larger overall size eases handling compared to discrete components **• Low Profile:** Suitable for PCMCIA applications **• Solder Coated Nickel Barrier Pads • Resistance Tolerance Standard:** ±5% or .5 ohms, whichever is greater **• Operating Temperature Range:** -55°C to +125°C **• Temperature Coefficient (TCR) Standard:** ±200ppm/°C

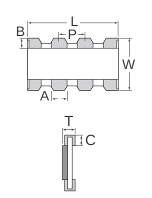
Environmental Performance Specifications

Test	Max. Δ R	Test Description
Thermal Cycle	1.0%	5 Cycles -55°C to 125°C
Short Time Overload	1.0%	2 1/2 x Rated voltage. 5 sec. (or max voltage)
Moisture Resistance	2.0%	240 hours .1 rated load, -10°C +65°C, 90%RH
High Temperature Exposure	1.0%	1000 hours. no load @ 125°C
Load Life	5.0%	1000 hours @ 70°C, rated load
Resistance to Solder Heat	1.0%	10 seconds @ 260°C solder
Resistance to Leach	—	120 seconds @ 260°C solder
Resistance to Solvents	—	Isopropyl alcohol, Freon TMC
Solderability	—	RMA flux, 230°C, 5 seconds dip, 95% coverage

741C SERIES



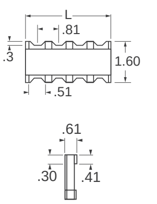
741X SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0015 • **Circuit Type:** Isolated • **Resistance Range Ω:** 10-1M • **Power per Resistor:** 63mW • **Maximum Operating Voltage:** 25V

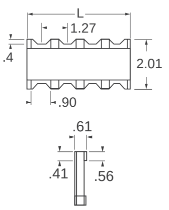
742 SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0037 • **Circuit Type:** Isolated • **Resistance Range Ω:** 10-1M • **Power per Resistor:** .063W • **Maximum Operating Voltage:** 50V

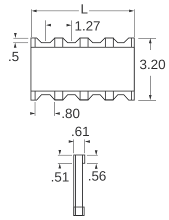
743 SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0071 • **Circuit Type:** Isolated • **Resistance Range Ω:** 10-1M • **Power per Resistor:** .100W • **Maximum Operating Voltage:** 100V

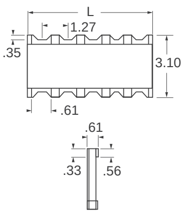
744 SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0094 • **Circuit Type:** Isolated • **Resistance Range Ω:** 10-1M • **Power per Resistor:** .125W • **Maximum Operating Voltage:** 200V

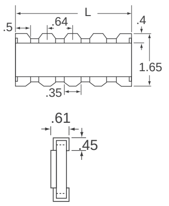
745 SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0058 • **Circuit Type:** Bussed • **Resistance Range Ω:** 100-100K • **Power per Resistor:** .063W • **Maximum Operating Voltage:** 50V

746 SERIES

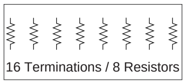


Electrical Specifications:

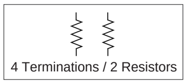
• **PCB Area (in²) per Resistor:** .0013 • **Circuit Type:** Bussed • **Resistance Range Ω:** 100-100K • **Power per Resistor:** .031W • **Maximum Operating Voltage:** 25V

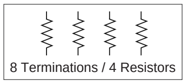
Series	Dimensions - mm W	P	T	A	B	C
741X043	1.0	.65	.35	.33	.20	.38
741X083	1.0	.50	.35	.20	.20	.38
741C083	1.0	.50	.35	.28	.20	.38
741X163	1.6	.50	.45	.30	.30	.30

Series 741X and 742

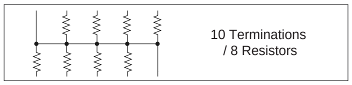


Series 741C, 741X, 742, 743 and 744





Series 745 and 746



Resistance Values
741C083 Series Chip Arrays

All values listed in ohms

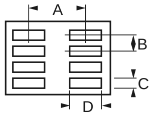
Code (Value)	Code (Value)	Code (Value)	Code (Value)
100 (10)	121 (120)	272 (2.7K)	513 (51K)
120 (12)	151 (150)	332 (3.3K)	563 (56K)
150 (15)	221 (220)	392 (3.9K)	683 (68K)
180 (18)	271 (270)	472 (4.7K)	104 (100K)
220 (22)	331 (330)	512 (5.1K)	184 (180K)
270 (27)	391 (390)	562 (5.6K)	224 (220K)
330 (33)	471 (470)	822 (8.2K)	274 (270K)
390 (39)	511 (510)	103 (10K)	334 (330K)
470 (47)	561 (560)	153 (15K)	474 (470K)
510 (51)	681 (680)	183 (18K)	514 (510K)
560 (56)	102 (1K)	223 (22K)	105 (1M)
680 (68)	152 (1.5K)	273 (27K)	
820 (82)	182 (1.8K)	333 (33K)	
101 (100)	222 (2.2K)	473 (47K)	

Resistance Values
741X043, 741X083, 741X163 Series Chip Arrays

All values listed in ohms

Code (Value)	Code (Value)	Code (Value)
100 (10)	560 (56)	472 (4.7K)
220 (22)	101 (100)	103 (10K)
330 (33)	102 (1K)	473 (47K)

Land Pattern



Series	Dimensions - mm A	B	C	D
741	1.14	.50	.25	.61
742	1.80	.80	.50	.90
743	1.90	1.27	.80	1.20
744	3.00	1.27	.80	1.30
745	3.00	1.27	.80	1.30
746	1.52	.64	.35	.80

Resistance Values
742C043, 742C163, 743C043, 744C043 Series Chip Arrays

All values listed in ohms

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
220 (22)	221 (220)	222 (2.2K)	223 (22K)	224 (220K)
330 (33)	331 (330)	332 (3.3K)	333 (33K)	334 (330K)
470 (47)	471 (470)	472 (4.7K)	473 (47K)	474 (470K)
101 (100)	102 (1K)	103 (10K)	104 (100K)	105 (1MEG)

Resistance Values
742C083, 743C083, 744C083 Series Chip Arrays

All values listed in ohms

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
100 (10)	680 (68)	471 (470)	332 (3.3K)	223 (22K)	154 (150K)
120 (12)	820 (82)	511 (510)	392 (3.9K)	273 (27K)	184 (180K)
150 (15)	101 (100)	561 (560)	472 (4.7K)	333 (33K)	224 (220K)
180 (18)	111 (110)	681 (680)	512 (5.1K)	393 (39K)	274 (270K)
220 (22)	121 (120)	821 (820)	562 (5.6K)	473 (47K)	334 (330K)
270 (27)	151 (150)	102 (1K)	682 (6.8K)	513 (51K)	394 (390K)
330 (33)	181 (180)	122 (1.2K)	822 (8.2K)	563 (56K)	474 (470K)
390 (39)	221 (220)	152 (1.5K)	103 (10K)	683 (68K)	514 (510K)
470 (47)	271 (270)	182 (1.8K)	123 (12K)	823 (82K)	564 (560K)
510 (51)	331 (330)	222 (2.2K)	153 (15K)	104 (100K)	684 (680K)
560 (56)	391 (390)	272 (2.7K)	183 (18K)	124 (120K)	824 (820K)
					105 (1MEG)

Resistance Values
745 Series Chip Arrays

All values listed in ohms

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100)	681 (680)	222 (2.2K)	103 (10K)	473 (47K)	334 (330K)
151 (150)	471 (470)	332 (3.3K)	153 (15K)	683 (68K)	474 (470K)
221 (220)	102 (1K)	472 (4.7K)	223 (22K)	104 (100K)	
331 (330)	152 (1.5K)	682 (6.8K)	333 (33K)	224 (220K)	

Resistance Values
746 Series Chip Arrays

All values listed in ohms

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100)	331 (330)	152 (1.5K)	332 (3.3K)	153 (15K)	473 (47K)
151 (150)	471 (470)	222 (2.2K)	472 (4.7K)	223 (22K)	104 (100K)
221 (220)	102 (1K)	272 (2.7K)	103 (10K)	333 (33K)	

Series	No. of Term.	No. of Res.	Dim. “L” (mm)	Resistor † Power Rating (mW@70°C)	Digi-Key* Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key* Part No.	Tape & Reel Pricing 4,000	5,000	10,000
741	4	2	1.0	63	741X043□□□JCT-ND	.28	2.20	18.80	741X043□□□JTR-ND	—	—	14.00/M
	8	4	2.0		741X083□□□JCT-ND	.32	2.48	21.15	741X083□□□JTR-ND	—	—	16.00/M
	8	4	2.0		741C083□□□JCT-ND	.32	2.48	21.15	741C083□□□JTR-ND	—	—	16.00/M
	16	8	3.80		741X163□□□JCT-ND	1.58	12.38	105.75	741X163□□□JTR-ND	—	90.00/M	79.00/M
742	4	2	1.60	63	742C043□□□JCT-ND	.32	2.48	21.15	742C043□□□JTR-ND	—	18.00/M	16.00/M
	8	4	3.20		742C083□□□JCT-ND	.18	1.38	11.75	742C083□□□JTR-ND	—	10.00/M	9.00/M
	16	8	6.40		742C163□□□JCT-ND	1.75	13.75	117.50	742C163□□□JTR-ND	100.00/M	—	—
743	4	2	2.54	100	743C043□□□JCT-ND	1.02	7.98	68.15	743C043□□□JTR-ND	58.00/M	—	—
	8	4	5.08		743C083□□□JCT-ND	1.30	10.21	86.95	743C083□□□JTR-ND	74.00/M	—	—
744	4	2	2.54	125	744C043□□□JCT-ND	1.02	7.98	68.15	744C043□□□JTR-ND	58.00/M	—	—
	8	4	5.08		744C083□□□JCT-ND	1.30	10.21	86.95	744C083□□□JTR-ND	74.00/M	—	—
745	10	8	6.40	63	745C101□□□JCT-ND	2.10	16.50	141.00	745C101□□□JTR-ND	120.00/M	—	—
746	10	8	3.30	31	746X101□□□JCT-ND	.88	6.88	58.75	746X101□□□JTR-ND	—	50.00/M	44.00/M

***** For complete part number, substitute the corresponding resistance code (listed above) for □□□.

† *Note:* Total Rated Package Power equals total number of resistors times rated Power per Resistor.

CTS 753 SERIES In-Line Surface Mount Leadless Resistor Networks

Series 753 in-line surface mount leadless resistor networks provide the highest density per area of any conventional surface mount solution. In a bussed configuration, the networks provide two times the resistors per area compared to 0603 sized chips, and more than six times that offered by 0805 sized chips.

SPECIFICATIONS: • **Resistance Tolerance:** ±2% or 0.5Ω, whichever is greater • **Max. Operating Voltage:** 25V, not to exceed rated power • **Temp. Coefficient:** ±200ppm/°C • **Operating Temperature Range:** -55°C to +125°C

FEATURES: • High density packaging • Solid ceramic construction • Available terminations per package: Single Row Terminations: 8, 9, 10; Dual Row Terminations: 16, 18, 20, 24 • Solder coated pads • Designed for visual inspection of solder joints and board cleaning

Fig. 1 — SRT Isolated

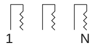


Fig. 3 — DRT Bussed

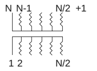


Fig. 5 — GTL Termination

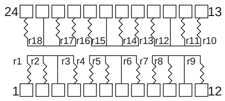

24
13
r18 r17 r16 r15 r14 r13 r12 r11 r10
r1 r2 r3 r4 r5 r6 r7 r8 r9
1
12

Fig. 2 — SRT Bussed

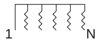
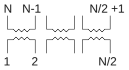


Fig. 4 — DRT Isolated



RESISTANCE VALUES

(All values listed in ohms)

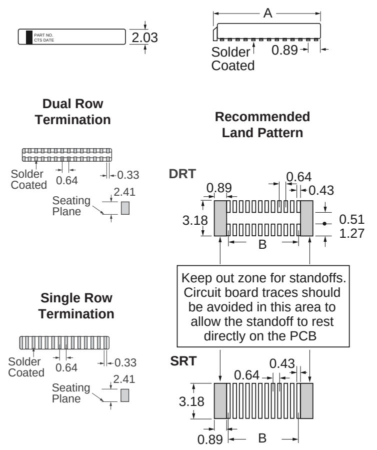
SRT Bussed 8 Terminal	SRT Isolated 8 Terminal	SRT Bussed 9 Terminal	SRT Bussed 10 Terminal	DRT Bussed 16 Terminal	DRT Isolated 16 Terminal	DRT Bussed 18 Terminal	DRT Bussed 20 Terminal	DRT Bussed 24 Terminal	DRT Isolated 24 Terminal	DRT GTL 24 Terminal
(Code) Value	(Code) Value	(Code) Value	(Code) Value	(Code) Value	(Code) Value	(Code) Value	(Code) Value	(Code) Value	(Code) Value	(Code) Value
(102) 1K (103) 10K	(330) 33 (101) 100 (104) 100K	(101) 100 (102) 1K (222) 2.2K (472) 4.7K (103) 10K (223) 22K (104) 100K	(102) 1K (103) 10K (332) 3.3K (472) 4.7K (473) 47K	(111) 110 (103) 10K	(220) 22 (390) 39 (470) 47 (101) 100 (103) 10K	(102) 1K (472) 4.7K (562) 5.6K (103) 10K (223) 22K	(103) 10K	(103) 10K	(220) 22 (101) 100	(390) 39 (510) 51 (680) 68

Fig.	No. of Term.	No. of Resistors	Dim. (mm) A	Dim. (mm) B	Res. Pwr. Rating (mW@70°C)	Digi-Key† Part No.	Cut Tape Pricing 1	10	100	Digi-Key† Part No.	Tape & Reel Size	Price
1	8	4	6.22	4.44	80	753083□□□GCT-ND	2.43	22.28	202.50	753083□□□GTR-ND	1,000	1215.00
2	9	8	6.86	4.90	40	753091□□□GCT-ND	2.52	23.10	210.00	753091□□□GTR-ND	1,000	1260.00
2	10	9	7.49	5.72	40	753101□□□GCT-ND	2.52	23.10	210.00	753101□□□GTR-ND	1,000	1260.00
3	16	14	6.22	4.44	40	753161□□□GCT-ND	2.52	23.10	210.00	753161□□□GTR-ND	1,000	1260.00
4	16	8	6.22	4.44	80	753163□□□GCT-ND	2.43	22.28	202.50	753163□□□GTR-ND	1,000	1215.00
3	18	16	6.86	4.90	40	753181□□□GCT-ND	2.52	23.10	210.00	753181□□□GTR-ND	1,000	1260.00
3	20	18	7.49	5.72	40	753201□□□GCT-ND	2.52	23.10	210.00	753201□□□GTR-ND	1,000	1260.00
3	24	22	8.76	6.98	40	753241□□□GCT-ND	2.52	23.10	210.00	753241□□□GTR-ND	1,000	1260.00
4	24	12	8.76	6.98	80	753243□□□GCT-ND	2.43	22.28	202.50	753243□□□GTR-ND	1,000	1215.00
5	24	18	8.76	6.98	60	75324G□□□GCT-ND	2.43	22.28	202.50	75324G□□□GTR-ND	1,000	1215.00

Fig.	No. of Term.	No. of Res.	Dim. (mm) A	Dim. (mm) B	Res. Pwr. Rating (mW@70°C)	Res. Value (ohms)	Digi-Key† Part No.	Cut Tape Pricing 1	10	100	Digi-Key† Part No.	Tape & Reel Size	Price
2	8	7	6.22	4.44	40	1K	753081102GBK-ND	3.15	25.20	176.40	753081102GTR-ND	1,000	1092.00
2	8	7	6.22	4.44	40	10K	753081103GBK-ND	3.15	25.20	176.40	753081103GTR-ND	1,000	1092.00
2	9	8	6.86	4.90	40	4.7K	753091472GBK-ND	3.15	25.20	176.40	753091472GTR-ND	1,000	1092.00
3	18	16	6.86	4.90	40	22K	753181223GBK-ND	3.15	25.20	176.40	753181223GTR-ND	1,000	1092.00
3	18	16	6.86	4.90	40	4.7K	753181472GBK-ND	3.15	25.20	176.40	753181472GTR-ND	1,000	1092.00

† For complete part number, substitute the corresponding resistance ***"code "*** (from chart above) in □□□.

Series 753



752 SERIES — Surface Mount Single Row & Dual Row Termination

Fig. 1 — SRT Bussed

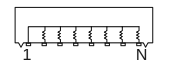


Fig. 2 — DRT Bussed

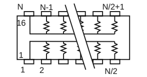


Fig. 3 — SRT Isolated

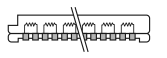


Fig. 4 — SRT Dual Term.

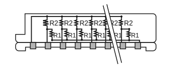
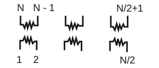
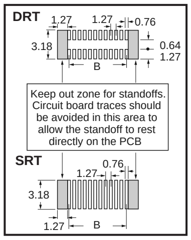


Fig. 5 — DRT Isolated




DRT
1.27
1.27
0.76
3.18
0.64
1.27
B
Keep out zone for standoffs. Circuit board traces should be avoided in this area to allow the standoff to rest directly on the PCB
SRT
1.27
0.76
3.18
1.27
B

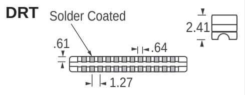
SPECIFICATIONS: Res. Range: Standard: 22Ω to 1 MegΩ. **Res. Tolerance:** The Bussed and Isolated circuits are 2%, the Dual Terminator circuit is 5% **Max. Operating Voltage:** 25V not to exceed rated power **Temp. Coefficient:** Standard: ±200 PPM/°C **Dielectric Strength:** 100 VAC. **Operating Temp. Range:** -55°C to +125°C **In-line Surface Mount Resistor Networks:** • High density packaging • Low profile • Input/outputs available: Dual Row Terminations 16, 18, 20, 24; Single Row Terminations 8, 9, 10, 12 • Solder coated pads • Designed for visual inspection of solder joints and for board cleaning • 24mm tape and reel packaging • Meets UL-94VO requirements

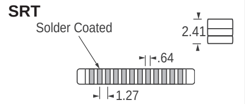
RESISTANCE VALUES

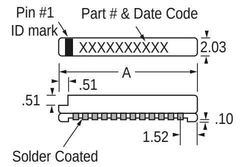
SRT Bussed 9 Term.			SRT Bussed 10 Term.	DRT Bussed 16,18,20,24 Term.		SRT Isolated 8,10,12 Term.			DRT Isolated 24 Term.
100	1K	10K	1K	1K	47K	22	100	3.3K	22
560	2.2K	22K	3.3K	10K	100K	33	1K	4.7K	
680	4.7K	100K	10K			47	2.2K	10K	

	Bussed & Dual Terminator Schematic	Isolated Schematic
@25°C	.12w	.24w
@70°C	.08w	.16w

All values listed in ohms







Max. Resistor Power (Not to exceed total network power)

Fig.	No. of Term.	No. of Res.	Dim. (mm) A	Dim. (mm) B	Res. Pwr. Rating (mW@70°C)	Digi-Key† Part No.	Bulk Pricing 1	10	100	Tape & Reel* Size	Pricing
1	9	8	13.08	10.16	80	752-091-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
2	16	14	11.81	8.89	80	752-161-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
2	18	16	13.08	10.16	80	752-181-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
2	20	18	14.35	11.43	80	752-201-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
2	24	22	16.89	13.97	80	752-241-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
3	8	4	11.81	8.89	160	752-083-(Value)BK-ND	2.36	18.90	132.30	1,000	819.00
3	10	5	14.35	11.43	160	752-103-(Value)BK-ND	2.36	18.90	132.30	1,000	819.00
3	12	6	16.89	13.97	160	752-123-(Value)BK-ND	2.36	18.90	132.30	1,000	819.00
4	10	16	14.35	11.43	80	752-105-220/330BK-ND	2.70	21.60	151.20	1,000	936.00
1	10	9	14.35	11.43	80	752-101-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
5	24	12	16.89	13.97	16	752-243-(Value)BK-ND	2.36	18.90	132.30	1,000	819.00

* For Tape & Reel Part No. change BK to TR † For complete part number, substitute the corresponding value from chart above in (value).

773 SERIES Single-In-Line

SPECIFICATIONS: • **Resistance Tolerance:** 2% • **Maximum Operating Voltage:** 100VDC • **Temperature Coefficient:** ±100 PPM/°C≥50Ω, ±200 PPM/°C≤50Ω • **Dielectric Withstand Voltage:** 200VDC • **Operating Temperature Range:** -55°C to +125°C • **Resistance Power @ 70°C:** -1 and -5 Schematic = .10 Watts and -3 Schematic = .20 Watts

FEATURES: • Low cost • High reliability cermet resistors • 2% standard resistor tolerance • Laser marking for permanent identification • High temperature solder • Low profile

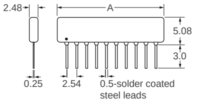


Fig. 1 - Bussed

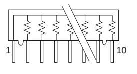


Fig. 2 - Isolated

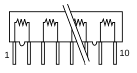


Fig. 3 - Dual Term

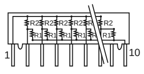


Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Res. Pwr. Rating (mW@70°C)	Digi-Key* Part No.	Pricing 1	10	100	1,000
1	6	5	15.55	100	773061□□□-ND	.35	2.78	18.50	92.50
2	6	3	15.55	200	773063□□□-ND	.35	2.78	18.50	92.50
1	8	7	20.65	100	773081□□□-ND	.46	3.60	24.00	120.00
2	8	4	20.65	200	773083□□□-ND	.46	3.60	24.00	120.00
3	8	12	20.65	100	773085□□□/□□□-ND	.97	7.65	51.00	255.00
1	9	8	23.15	100	773091□□□-ND	.71	5.63	37.50	187.50
1	10	9	25.65	100	773101□□□-ND	.57	4.50	30.00	150.00
2	10	5	25.65	200	773103□□□-ND	.57	4.50	30.00	150.00
3	10	16	25.65	100	773105□□□/□□□-ND	1.22	9.60	64.00	320.00

*For complete part number, substitute the corresponding resistance ***"code "*** (listed to the right) in □□□.

All Resistance values listed in ohms

773061 Series (Bussed)

(Code) Value	(Code) Value
(151) 150	(472) 4.7K
(221) 220	(103) 10K
(271) 270	(153) 15K
(331) 330	(203) 20K
(471) 470	(223) 22K
(102) 1K	(333) 33K
(152) 1.5K	(473) 47K
(272) 2.7K	(104) 100K

773063 Series (Isolated)

(Code) Value	(Code) Value
(561) 560	(104) 100K
(102) 1K	(224) 220K
(222) 2.2K	(105) 1MEG
(103) 10K	

773081 Series (Bussed)

(Code) Value	(Code) Value
(151) 150	(102) 1K
(181) 180	(222) 2.2K
(271) 270	(472) 4.7K
(331) 330	(103)10K
(471) 470	(473) 47K
(511) 510	(104) 100K

773083 Series (Isolated)

(Code) Value	(Code) Value
(220) 22	(102) 1K
(270) 27	(122) 1.2K
(330) 33	(152) 1.5K
(470) 47	(222) 2.2K
(510) 51	(272) 2.7K
(560) 56	(332) 3.3K
(101) 100	(472) 4.7K
(121) 120	(103) 10K
(151) 150	(153) 15K
(181) 180	(203) 20K
(221) 220	(223) 22K
(271) 270	(333) 33K
(331) 330	(563) 56K
(471) 470	(104) 100K
(511) 510	(474) 470K
(681) 680	(105) 1MEG

773085 Series (Dual Term)

(Code) Value
(221/331) 220/330

773091 Series (Bussed)

(Code) Value
(270) 27
(103) 10K

773101 Series (Bussed)

(Code) Value	(Code) Value
(470) 47	(332) 3.3K
(101) 100	(472) 4.7K
(121) 120	(512) 5.1K
(221) 220	(103) 10K
(271) 270	(153) 15K
(331) 330	(203) 20K
(471) 470	(223) 22K
(681) 680	(333) 33K
(102) 1K	(473) 47K
(152) 1.5K	(104) 100K
(222) 2.2K	(105) 1MEG
(272) 2.7K	

773103 Series (Isolated)

(Code) Value	(Code) Value
(330) 33	(152) 1.5K
(470) 47	(103) 10K
(101) 100	(333) 33K
(471) 470	(473) 47K
(561) 560	(104) 100K
(102) 1K	(224) 220K

773105 Series (Dual Term)

(Code) Value
(221/331) 220/330
(331/471) 330/470

CTS®

Resistor Networks

OVER 1,500 VALUES AVAILABLE

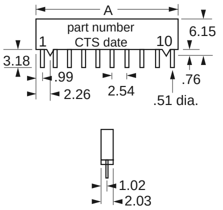
750 SERIES

Single-In-Line

Solid ceramic networks are more efficient because they operate at lower temperatures. This translates into long term reliability in a resistor network.

Specifications:
- **Resistance Values:** 22Ω through 1 MegΩ
- **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:
- Low-profile construction • Excellent power dissipation • High reliability • Alumina substrate



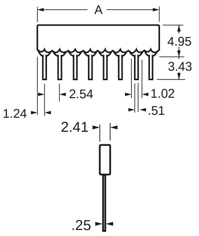
770 SERIES

Single-In-Line Conformal

Standard Products 770 series is available in 6, 8, and 10 pin sizes, and in many available resistance values.

Specifications:
- **Resistance Values:** 22Ω through 1 MegΩ
- **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:
- High reliability resistors • Low-profile construction • .100" lead spacing • High reliability • Alumina substrate

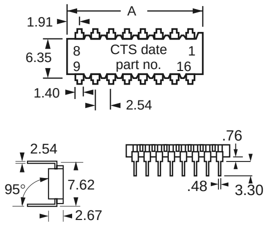


760/761 SERIES

Dual-In-Line

Thin cover coating generates higher power ratings. Thin proprietary cover protection keeps resistors near the surface, allowing the alumina substrate to act as a heat sink. That means higher power ratings than molded networks.

Specifications:
- **Resistance Values:** 22Ω through 1 MegΩ
- **Resistance Tolerance:** ±2%. • **Temperature Coefficient:** ±100PPM/°C typical

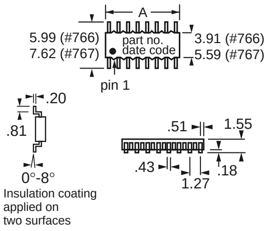


766/767 SERIES

Dual-In-Line Surface Mount

Requires 30% less board space than molded networks of the same power rating.

Specifications:
- **Resistance Range:** 22Ω through 1 MegΩ
- **Resistance Tolerance:** Standard: ±2% • **Max. Operating Voltage:** 50V not to exceed rated power
- **Temp. Coefficient:** 100Ω through 1 MegΩ ±100PPM/°C typical, Below 100Ω ±200PPM/°C typical • **Operating Temp. Range:** –55°C to 125°C
- **Storage Temp. Range:** –55°C to 125°C
- **Dielectric Strength**: 100V

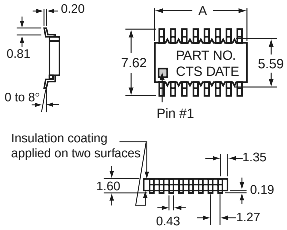


768 SERIES

Dual-In-Line Surface Mount

Medium body, small outline products. Low profile — board to network clearance of 0.005"/0.010".

Specifications:
- **Resistance Range:** Standard: 10Ω to 1MegΩ
- **Resistance Tolerance:** Standard: ±2% or 0.5Ω (whichever is greater) • **Max. Operating Voltage:** 50V not to exceed rated power • **Temp. Coefficient:** Standard: 100Ω to 1 MegΩ ±100PPM/°C typical, 10Ω to 99Ω ±200PPM/°C typical • **Operating Temp. Range:** -55°C to 125°C
- **Dielectric Strength:** 100VAC



AVAILABLE VALUES
(listed in ohms)

Isolated and Bussed Circuits

22	51	120	270	560	1.5K	3.3K	6.8K	18K	39K	100K	270K	680K
27	56	150	330	680	1.8K	3.9K	8.2K	20K	47K	120K	330K	820K
33	68	180	390	820	2K	4.7K	10K	22K	56K	150K	390K	1 Meg
39	82	200	470	1K	2.2K	5.1K	12K	27K	68K	180K	470K	
47	100	220	510	1.2K	2.7K	5.6K	15K	33K	82K	220K	560K	

AVAILABLE VALUES
(listed in ohms)

750 and 770 SERIES Dual Terminator Circuits
81/130
121/195
162/260
180/390
220/330
330/390

AVAILABLE VALUES
(listed in ohms)

760/761 SERIES Dual Terminator Circuits
180/390
220/270
220/330
330/390
680/1.5K
1.5K/3.3K

AVAILABLE VALUES
(listed in ohms)

766/767 and 768 SERIES Dual Terminator Circuits
180/390
220/330
330/390
330/470

Fig. 1 - Bussed

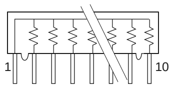


Fig. 2 - Isolated

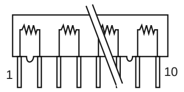


Fig. 3 - Dual Term

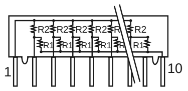


Fig. 4 - Bussed

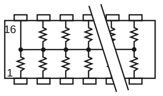


Fig. 5 - Isolated

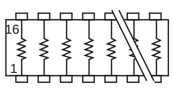
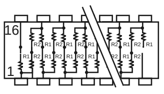


Fig. 6 - Dual Term



Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key* Part No.	Pricing 1	10	100	1,000
750	1	6	5	14.68	250	750-61-R(Value)-ND	.91	7.95	62.43	454.00
	1	8	7	19.76	250	750-81-R(Value)-ND	1.05	9.17	72.05	524.00
	1	10	9	24.84	250	750-101-R(Value)-ND	1.25	10.92	85.80	624.00
	2	6	3	14.68	400	750-63-R(Value)-ND	.91	7.95	62.43	454.00
	2	8	4	19.76	400	750-83-R(Value)-ND	1.05	9.17	72.05	524.00
	2	10	5	24.84	400	750-103-R(Value)-ND	1.25	10.92	85.80	624.00
	3	8	12	19.76	250	750-85-R(Value)-ND	1.41	12.36	97.08	706.00
	3	10	16	24.84	250	750-105-R(Value)-ND	1.70	14.91	117.15	852.00
770	1	6	5	15.19	100	770-61-R(Value)-ND	.18	1.52	11.40	76.00
	1	8	7	20.27	100	770-81-R(Value)-ND	.24	2.04	15.30	102.00
	1	10	9	25.35	100	770-101-R(Value)-ND	.26	2.28	17.88	130.00
	2	6	3	15.19	200	770-63-R(Value)-ND	.18	1.52	11.40	76.00
	2	8	4	20.27	200	770-83-R(Value)-ND	.24	2.04	15.30	102.00
	2	10	5	25.35	200	770-103-R(Value)-ND	.26	2.28	17.88	130.00
	3	8	12	20.27	100	770-85-R(Value)-ND	.50	4.20	31.50	210.00
	3	10	16	25.35	100	770-105-R(Value)-ND	.47	4.13	32.45	236.00
760/761	4	14	13	19.05	150	760-1-R(Value)-ND	.98	8.13	68.25	422.50
	4	16	15	21.59	150	761-1-R(Value)-ND	1.00	9.16	83.25	499.50
	5	14	7	19.05	300	760-3-R(Value)-ND	.98	8.13	68.25	422.50
	5	16	8	21.59	300	761-3-R(Value)-ND	1.00	9.16	83.25	499.50
	6	14	24	19.05	150	760-5-R(Value)-ND	1.35	11.28	94.71	586.30
	6	16	28	21.59	150	761-5-R(Value)-ND	1.38	12.62	114.75	688.50
766	4	14	13	8.64	80	766-141-R(Value)-ND	1.22	9.72	68.04	421.20
	4	16	15	9.91	80	766-161-R(Value)-ND	1.22	9.72	68.04	421.20
	5	14	7	8.64	160	766-143-R(Value)-ND	1.22	9.72	68.04	421.20
	5	16	8	9.91	160	766-163-R(Value)-ND	1.22	9.72	68.04	421.20
	6	14	24	8.64	80	766-145-R(Value)-ND	1.43	11.40	79.80	494.00
	6	16	28	9.91	80	766-165-R(Value)-ND	1.43	11.40	79.80	494.00
767	4	14	13	9.91	100	767-141-R(Value)-ND	.66	5.25	36.75	227.50
	4	16	15	11.18	100	767-161-R(Value)-ND	.66	5.25	36.75	227.50
	5	14	7	9.91	200	767-143-R(Value)-ND	.66	5.25	36.75	227.50
	5	16	8	11.18	200	767-163-R(Value)-ND	.66	5.25	36.75	227.50
	6	14	24	9.91	100	767-145-R(Value)-ND	.71	5.64	39.48	244.40
	6	16	28	11.18	100	767-165-R(Value)-ND	.71	5.64	39.48	244.40
768	4	14	13	9.91	130	768-141-R(Value)-ND	.66	5.25	36.75	227.50
	4	16	15	11.18	150	768-161-R(Value)-ND	.66	5.25	36.75	227.50
	5	14	7	9.91	130	768-143-R(Value)-ND	.66	5.25	36.75	227.50
	5	16	8	11.18	150	768-163-R(Value)-ND	.66	5.25	36.75	227.50
	6	14	24	9.91	130	768-145-R(Value)-ND	.71	5.64	39.48	244.40
	6	16	28	11.18	150	768-165-R(Value)-ND	.71	5.64	39.48	244.40

* For complete part number, substitute the corresponding value from above chart in (Value).

Digi-Key® 766 Series Assortment Kits

Bussed Circuits

Set of 5 each of values in the series. 62 values (310 total pieces).
*Kit does not include value 330K ohm.
766-141-KIT-ND..**$249.00**

Set of 5 each of values in the series. 63 values (315 total pieces).
766-161-KIT-ND..**$249.00**

Isolated Circuits

Set of 5 each of values in the series. 63 values (315 total pieces).
766-143-KIT-ND..**$249.00**

Set of 5 each of values in the series. 61 values (305 total pieces).
*Kit does not include values 820, or 1.2K ohm.
766-163-KIT-ND..**$249.00**

Dual Terminator Circuits

Set of 5 each of values in the series. 4 values (20 total pieces).
766-DUAL-KIT-ND **$46.95**

Digi-Key® 767 Series Assortment Kits

Bussed Circuits

Set of 5 each of values in the series. 62 values (310 total pieces).
*Kit does not include value 3.9K ohm.
767-141-KIT-ND **$159.95**

Set of 5 each of values in the series. 63 values (315 total pieces).
767-161-KIT-ND **$159.95**

Isolated Circuits

Set of 5 each of values in the series. 62 values (310 total pieces).
*Kit does not include value 27 ohm.
767-143-KIT-ND **$159.95**

Set of 5 each of values in the series. 63 values (315 total pieces).
767-163-KIT-ND **$159.95**

Dual Terminator Circuits

Set of 5 each of values in the series. 4 values (20 total pieces).
767-DUAL-KIT-ND...**$34.95**

Digi-Key® 768 Series Assortment Kits

Bussed Circuits

Set of 5 each of values in the series. 62 values (310 total pieces).
* Kit does not include value 3.9K ohm.
768-141-KIT-ND **$159.95**

Set of 5 each of values in the series. 63 values (315 total pieces).
768-161-KIT-ND **$159.95**

Isolated Circuits

Set of 5 each of values in the series. 62 values (310 total pieces).
* Kit does not include value 27 ohm.
768-143-KIT-ND **$159.95**

Set of 5 each of values in the series. 63 values (315 total pieces).
768-163-KIT-ND **$159.95**

Dual Terminator Circuits

Set of 5 each of values in the series. 4 values (20 total pieces).
768-DUAL-KIT-ND **$34.95**

Resistor Networks

4100R Series
4116R
Thick Film Molded DIPs

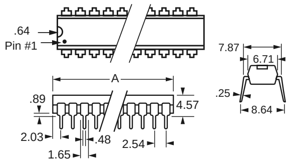
• Compatible with automatic insertion equipment • Copper leads for excellent heat dissipation • High temperature lead attachment to withstand reflow solder temperatures up to 260°C • Trifurcated Krimp-Joint™ lead attachment for product reliability and strength

Electrical Characteristics:
• **Max. Operating Voltage:** 100V. • **Temp. Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250ppm°C. • **Operating Temperature:** -55°C to +125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000 megohms minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 electroplate • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50 ohms ±1 ohms; Above 50 ohms ±2% • **Dual Terminated:** Below 100 ohms ±2 ohms; Above 100 ohms ±2%



4800P Series
4816P
Thick Film Surface Mount Medium Body (5.59mm)

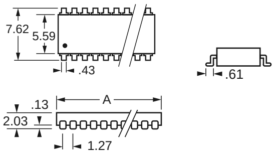
• Standard E.I.A. (SOGN-0002) package compatible with automatic placement equipment. • High temperature lead attachment to withstand reflow temperatures up to 260°C.

Electrical Characteristics:
• **Max. Operating Voltage:** 50V • **Temp. Coefficient of Resistance:** 50Ω and above: ±100ppm/°C; below 50Ω: ±250ppm°C • **Operating Temperature:** -55°C to +125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000 megohms minimum. • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50 ohms ±1 ohms; Above 50 ohms ±2% • **Dual Terminated:** Below 100 ohms ±2 ohms; Above 100 ohms ±2%



4300R Series
4306R, 4308R and 4310R
Thick Film Molded SIPs, Low Profile

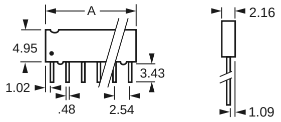
• Low profile provides compatibility with DIPs • Compatible with automatic insertion equipment • High temperature lead attachment to withstand reflow temperatures up to 260°C • Copper leads for excellent heat dissipation

Electrical Characteristics:
• **Max. Operating Voltage:** 100V • **Temp. Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C; below 50Ω: ±250ppm°C • **Operating Temp.:** -55°C to +125°C • **Power Rating:** Derate to zero power from + 70°C to +125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000 megohms minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 plated • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50 ohms ±1 ohms; Above 50 ohms ±2% • **Dual Terminated:** Below 100 ohms ±2 ohms; Above 100 ohms ±2%



4600X Series
4606X, 4608X and 4610X
Thick Film Conformal SIPs, Low Profile

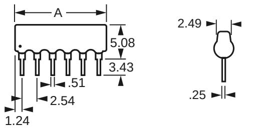
• Low Profile is compatible with DIPs • High temperature lead attachment to withstand reflow temperatures up to 260°C

Electrical Characteristics:
• **Max. Operating Voltage:** 100V • **Temp. Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250ppm°C • **Operating Temperature:** -55°C to +125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000 megohms minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material**: Epoxy resin/anhydride disphenol A

Resistance Tolerance:
• **Isolated/Bussed:** Below 50 ohms ±1 ohms; Above 50 ohms ±2% • **Dual Terminated:** Below 100 ohms ±2 ohms; Above 100 ohms ±2%



All values listed in ohms.

Resistance Values (001 and 002) Isolated and Bussed Circuits

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
220 (22)	221 (220)	202 (2K)	183 (18K)	154 (150K)
270 (27)	271 (270)	222 (2.2K)	203 (20K)	184 (180K)
330 (33)	331(330)	272 (2.7K)	223 (22K)	224 (220K)
390 (39)	391 (390)	332 (3.3K)	273 (27K)	274 (270K)
470 (47)	471 (470)	392 (3.9K)	333 (33K)	334 (330K)
560 (56)	561 (560)	472 (4.7K)	393 (39K)	394 (390K)
680 (68)	681 (680)	562 (5.6K)	473 (47K)	474 (470K)
820 (82)	821 (820)	682 (6.8K)	563 (56K)	564 (560K)
101 (100)	102 (1K)	822 (8.2K)	683 (68K)	684 (680K)
121 (120)	122 (1.2K)	103 (10K)	823 (82K)	824 (820K)
151 (150)	152 (1.5K)	123 (12K)	104 (100K)	105 (1M)
181 (180)	182 (1.8K)	153 (15K)	124 (120K)	

Resistance Values (003) Dual Terminator Circuits

Code (Value)
181/391 (180/390)
221/271 (220/270)
221/331 (220/330)
331/391 (330/390)
331/471 (330/470)
302/622 (3K/6.2K)

All values listed in ohms.

Resistance Values (001 and 002) Isolated and Bussed Circuits

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
220 (22)	221 (220)	202 (2K)	183 (18K)	154 (150K)
270 (27)	271 (270)	222 (2.2K)	203 (20K)	184 (180K)
330 (33)	331(330)	272 (2.7K)	223 (22K)	224 (220K)
390 (39)	391 (390)	332 (3.3K)	273 (27K)	274 (270K)
470 (47)	471 (470)	392 (3.9K)	333 (33K)	334 (330K)
560 (56)	561 (560)	472 (4.7K)	393 (39K)	394 (390K)
680 (68)	681 (680)	562 (5.6K)	473 (47K)	474 (470K)
820 (82)	821 (820)	682 (6.8K)	563 (56K)	564 (560K)
101 (100)	102 (1K)	822 (8.2K)	683 (68K)	684 (680K)
121 (120)	122 (1.2K)	103 (10K)	823 (82K)	824 (820K)
151 (150)	152 (1.5K)	123 (12K)	104 (100K)	105 (1M)
181 (180)	182 (1.8K)	153 (15K)	124 (120K)	

Resistance Values (004) Dual Terminator Circuits

Code (Value)
161/241 (160/240)
181/391 (180/390)
221/271 (220/270)
221/331 (220/330)
331/391 (330/390)
331/471 (330/470)
302/622 (3K/6.2K)

Fig. 1 – Isolated

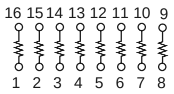


Fig. 2 – Bussed

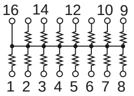


Fig. 3 – Dual Term

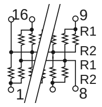


Fig. 4 – Dual Term

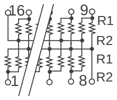


Fig. 5 – Isolated

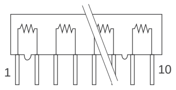


Fig. 6 – Bussed

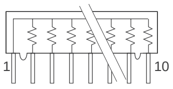
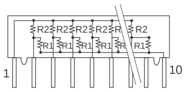


Fig. 7 – Dual Term



Series	Fig.	No. of Pins	No. of Res.	Dim. “A” (mm)	Element Power Rating (W @ 70°C)	Digi-Key* Part No.	Pricing 1	10	50	100	500	1,000	Bourns* Part No.
4100	1	16	8	21.97	.25	4116R-1-□□□-ND	.60	5.27	22.10	37.78	157.41	264.00	4116R-1-□□□
	2	16	15	21.97	.125	4116R-2-□□□-ND	.60	5.27	22.10	37.78	157.41	264.00	4116R-2-□□□
	3	16	28	21.97	.125	4116R-3-□□□/□□□-ND	1.27	11.28	47.32	80.89	337.04	566.00	4116R-3-□□□/□□□
4300	6	6	5	14.83	.20	4306R-1-□□□-ND	.47	4.19	17.55	30.00	125.00	210.00	4306R-101-□□□
	5	6	3	14.83	.30	4306R-2-□□□-ND	.47	4.19	17.55	30.00	125.00	210.00	4306R-102-□□□
	7	6	8	14.83	.20	4306R-4-□□□/□□□-ND	.67	5.89	24.70	42.22	175.93	296.00	4306R-104-□□□/□□□
	6	8	7	19.91	.20	4308R-1-□□□-ND	.54	4.81	20.15	34.44	143.52	241.00	4308R-101-□□□
	5	8	4	19.91	.30	4308R-2-□□□-ND	.54	4.81	20.15	34.44	143.52	241.00	4308R-102-□□□
	7	8	12	19.91	.20	4308R-4-□□□/□□□-ND	.74	6.51	27.30	46.67	194.44	327.00	4308R-104-□□□/□□□
	6	10	9	24.99	.20	4310R-1-□□□-ND	.65	5.74	24.05	41.11	171.30	288.00	4310R-101-□□□
	5	10	5	24.99	.30	4310R-2-□□□-ND	.65	5.74	24.05	41.11	171.30	288.00	4310R-102-□□□
	7	10	16	24.99	.20	4310R-4-□□□/□□□-ND	.88	7.75	32.50	55.56	231.48	389.00	4310R-104-□□□/□□□
4600	6	6	5	15.19	.20	4606X-1-□□□-ND	.25	2.23	9.36	16.00	66.67	112.00	4606X-101-□□□
	5	6	3	15.19	.30	4606X-2-□□□-ND	.25	2.23	9.36	16.00	66.67	112.00	4606X-102-□□□
	7	6	8	15.19	.20	4606X-4-□□□/□□□-ND	.53	4.65	19.50	33.33	138.89	233.00	4606X-104-□□□/□□□
	6	8	7	20.27	.20	4608X-1-□□□-ND	.32	2.79	11.70	20.00	83.33	140.00	4608X-101-□□□
	5	8	4	20.27	.30	4608X-2-□□□-ND	.32	2.79	11.70	20.00	83.33	140.00	4608X-102-□□□
	7	8	12	20.27	.20	4608X-4-□□□/□□□-ND	.63	5.58	23.40	40.00	166.67	280.00	4608X-104-□□□/□□□
	6	10	9	25.35	.20	4610X-1-□□□-ND	.39	3.41	14.30	24.44	101.85	171.00	4610X-101-□□□
	5	10	5	25.35	.30	4610X-2-□□□-ND	.39	3.41	14.30	24.44	101.85	171.00	4610X-102-□□□
	7	10	16	25.35	.20	4610X-4-□□□/□□□-ND	.70	6.20	26.00	44.44	185.19	311.00	4610X-104-□□□/□□□
4800	1	16	8	12.45	.160	4816P-1-□□□-ND	1.12	9.92	41.60	71.00	300.00	500.00	4816P-T01-□□□
	2	16	15	12.45	.080	4816P-2-□□□-ND	1.12	9.92	41.60	71.00	300.00	500.00	4816P-T02-□□□
	4	16	28	12.45	.080	4816P-3-□□□/□□□-ND	1.75	15.50	65.00	110.94	468.75	781.00	4816P-T03-□□□/□□□

* For complete part number, substitute the corresponding resistance code (listed above) for □□□.

Panasonic "ZNR" Transient/Surge Absorbers Type D and E

Features: • Excellent clamping voltage characteristic and fast response time (50nsec.) when subjected to impulse surges. Eliminates the discharge lag that is indurative of gap-type arrestors. • Bilateral and symmetrical V-1 characteristic curve. The ZNR can, therefore, be used both in AC and DC circuits, for protection of either positive or negative transients. Panasonic ZNRs are zinc oxide nonlinear resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-1 characteristic curve and can therefore be used in circuits in place of back-to-back zener diodes. This gives your circuit clamping protection in either direction. The ZNR thus provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes.

Ratings: Varistor Voltage: The voltage between two terminals with the specified measuring current CmA DC applied is called Vc. The measurement shall be made as fast as possible to avoid heat affection.

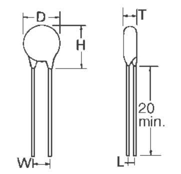
Maximum Allowable Voltage: The recommended maximum sine wave voltage (rms) or the maximum DC voltage that can be applied continuously.

Withstanding Surge Current: The maximum current within the varistor voltage change of 510% with the standard impulse current (8/20µ sec.) applied one time.

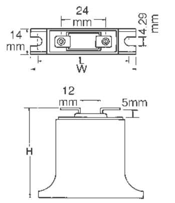
Maximum Clamping Voltage: The maximum voltage between two terminals with the specified standard impulse current (8/20µ sec.) illustrated.

V Series: ZNR Surge Absorbers Type D, Series V, have been put on the market as a result of the development of a new ceramic material composition, higher quality of parts and materials used in the varistor and an improvement of manufacturing process control. They have a smaller size but a larger surge current and energy ratings so that they can be used in smaller equipment and exhibit their excellent surge protection ability in severe conditions. **Features:** • Improved in "Surge Current Handling Capability (@ 8/20 µs, 2 times)" by 1.6 to 3.0 times over the current conventional type. • Very large "Energy Handling Capability" absorbing transient overvoltages in compact sizes • Varistor voltages 250V-1850V are listed under UL1414, UL1449 and CSA 2221 01, varistor voltages 82-150V are UL1449 only • Wide products range for transient/surge protection on AC 100V to AC 480V nominal system with the maximum peak current ratings of 600A to 6500A (@ 8/20 µs, 2 times) • Operating Temperature Range -40°C to 85°C

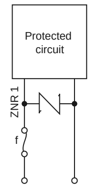
D-Type
Series V



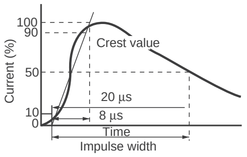
E-Type



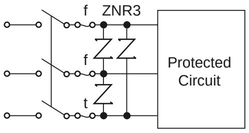
Line to Line Protection
DC AC Single Phase



Maximum Clamping Voltage



AC Three Phase



Ser-ies	Type	Max. Allow. Volt. (V) AC	DC	Var-istor Volt. ±10% (V)	Max. Clamp Volt. @ Test Current (8/20µsec.) Vc(V)	Ip(A)	Surge Cur-rent (A)	Dimensions (mm) D Max.	T Max.	W ±1	H Max.	L ±1	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
5	D Ser.V	11	14	18	40	1	125	7.0	4.5	5.0	10.0	1.5	P7282-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D180
		14	18	22	48	1	125	7.0	4.5	5.0	10.0	1.5	P7283-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D220
		17	22	27	60	1	125	7.0	4.5	5.0	10.0	1.5	P7284-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D270
		20	26	33	73	1	125	7.0	4.5	5.0	10.0	1.5	P7285-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D330
		25	31	39	86	1	125	7.0	4.5	5.0	10.0	1.5	P7286-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D390
		30	38	47	104	1	125	7.0	4.5	5.0	10.0	1.5	P7287-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D470
		35	45	56	123	1	125	7.0	4.5	5.0	10.0	1.5	P7288-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D560
		40	56	68	150	1	125	7.0	4.5	5.0	10.0	1.5	P7289-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D680
		50	65	82	145	5	600	7.0	4.1	5.0	10.0	1.4	P7180-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D820
		60	85	100	175	5	600	7.0	4.3	5.0	10.0	1.6	P7240-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D101
		75	100	120	210	5	600	7.0	4.5	5.0	10.0	1.8	P7241-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D121
		95	125	150	260	5	600	7.0	4.8	5.0	10.0	2.1	P7242-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D151
		130	170	200	355	5	600	7.0	4.4	5.0	10.0	1.7	P7181-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D201
		140	180	220	380	5	600	7.0	4.5	5.0	10.0	1.8	P7182-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D221
		150	200	240	415	5	600	7.0	4.6	5.0	10.0	1.9	P7183-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D241
		175	225	270	475	5	600	7.0	4.8	5.0	10.0	2.1	P7184-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D271
		210	270	330	570	5	600	7.0	5.1	5.0	10.0	2.4	P7185-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D331
		230	300	360	620	5	600	7.0	5.3	5.0	10.0	2.5	P7243-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D361
		250	320	390	675	5	600	7.0	5.4	5.0	10.0	2.7	P7244-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D391
		275	350	430	745	5	600	7.0	5.6	5.0	10.0	2.9	P7245-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D431
		300	385	470	810	5	600	7.0	5.8	5.0	10.0	3.1	P7186-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D471
7	D Ser.V	11	14	18	36	2.5	250	8.5	4.5	5.0	11.5	1.3	P7290-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D180
		14	18	22	43	2.5	250	8.5	4.6	5.0	11.5	1.4	P7291-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D220
		17	22	27	53	2.5	250	8.5	4.7	5.0	11.5	1.5	P7292-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D270
		20	26	33	65	2.5	250	8.5	4.9	5.0	11.5	1.7	P7293-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D330
		25	31	39	77	2.5	250	8.5	4.8	5.0	11.5	1.6	P7294-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D390
		30	38	47	93	2.5	250	8.5	4.9	5.0	11.5	1.7	P7295-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D470
		35	45	56	110	2.5	250	8.5	5.0	5.0	11.5	1.8	P7296-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D560
		40	56	68	135	2.5	250	8.5	5.2	5.0	11.5	2.0	P7297-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D680
		50	65	82	135	10	1250	8.5	4.1	5.0	11.5	1.4	P7187-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D820
		60	85	100	165	10	1250	8.5	4.3	5.0	11.5	1.6	P7246-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D101
		75	100	120	200	10	1250	8.5	4.5	5.0	11.5	1.8	P7247-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D121
		95	125	150	250	10	1250	8.5	4.8	5.0	11.5	2.1	P7248-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D151
		130	170	200	340	10	1250	8.5	4.4	5.0	11.5	1.7	P7188-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D201
		140	180	220	360	10	1250	8.5	4.5	5.0	11.5	1.8	P7189-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D221
		150	200	240	395	10	1250	8.5	4.6	5.0	11.5	1.9	P7190-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D241
		175	225	270	455	10	1250	8.5	4.8	5.0	11.5	2.1	P7200-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D271
		210	270	330	545	10	1250	8.5	5.1	5.0	11.5	2.4	P7201-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D331
		230	300	360	595	10	1250	8.5	5.3	5.0	11.5	2.5	P7249-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D361
		250	320	390	650	10	1250	8.5	5.4	5.0	11.5	2.7	P7250-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D391
		275	350	430	710	10	1250	8.5	5.8	5.0	11.5	2.9	P7251-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D431
		300	385	470	775	10	1250	8.5	5.8	5.0	11.5	3.1	P7202-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D471
		320	410	510	845	10	1250	8.5	6.0	5.0	11.5	3.3	P7203-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D511
10	D Ser.V	11	14	18	36	5	500	11.5	4.6	7.5	14.5	1.3	P7298-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D180
		14	18	22	43	5	500	11.5	4.7	7.5	14.5	1.4	P7299-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D220
		17	22	27	53	5	500	11.5	4.8	7.5	14.5	1.5	P7300-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D270
		20	26	33	65	5	500	11.5	5.0	7.5	14.5	1.7	P7301-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D330
		25	31	39	77	5	500	11.5	4.9	7.5	14.5	1.6	P7302-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D390
		30	38	47	93	5	500	11.5	5.0	7.5	14.5	1.7	P7303-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D470
		35	45	56	110	5	500	11.5	5.1	7.5	14.5	1.8	P7304-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D560
		40	56	68	135	5	500	11.5	5.3	7.5	14.5	2.0	P7305-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D680
		50	65	82	135	25	2500	11.5	4.5	7.5	14.5	1.6	P7204-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D820
		60	85	100	165	25	2500	11.5	4.7	7.5	14.5	1.8	P7252-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D101
		75	100	120	200	25	2500	11.5	4.9	7.5	14.5	2.0	P7253-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D121
		95	125	150	250	25	2500	11.5	5.2	7.5	14.5	2.3	P7254-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D151
		130	170	200	340	25	2500	11.5	4.8	7.5	14.5	1.9	P7205-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D201
		140	180	220	360	25	2500	11.5	4.9	7.5	14.5	2.0	P7206-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D221
		150	200	240	395	25	2500	11.5	5.0	7.5	14.5	2.1	P7207-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D241

(Continued)

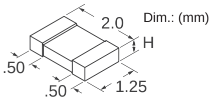
Series	Type	Max. Allow. Volt. (V)		Varistor Volt. ±10% (V)	Max. Clamp Volt. @ Test Current (8/20μsec.)		Surge Current (A)	Dimensions (mm)					Digi-Key Part No.	Pricing						Panasonic Part No.
		AC	DC		Vc(V)	Ip(A)		D Max.	T Max.	W ±1	H Max.	L ±1		1	10	100	1,000	5,000	10,000	
10	D Ser.V	175	225	270	455	25	2500	11.5	5.2	7.5	14.5	2.3	P7208-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D271
		210	270	330	545	25	2500	11.5	5.5	7.5	14.5	2.6	P7209-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D331
		230	300	360	595	25	2500	11.5	5.7	7.5	14.5	2.8	P7255-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D361
		250	320	390	650	25	2500	11.5	5.8	7.5	14.5	2.9	P7256-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D391
		275	350	430	710	25	2500	11.5	6.0	7.5	14.5	3.1	P7257-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D431
		300	385	470	775	25	2500	11.5	6.2	7.5	14.5	3.3	P7210-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D471
		320	410	510	845	25	2500	11.5	6.4	7.5	14.5	3.5	P7211-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D511
		385	505	620	1025	25	2500	12.5	7.1	7.5	15.5	4.2	P7258-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D621
		420	560	680	1120	25	2500	12.5	7.4	7.5	15.5	4.5	P7259-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D681
		460	615	750	1240	25	2500	12.5	7.8	7.5	15.5	4.9	P7260-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D751
		510	670	820	1355	25	2500	12.5	8.1	7.5	15.5	5.2	P7212-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D821
		550	745	910	1500	25	2500	12.5	8.6	7.5	15.5	5.7	P7213-ND	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D911
		625	825	1000	1650	25	2500	12.5	9.1	7.5	15.5	6.2	P7261-ND	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D102
		680	895	1100	1815	25	2500	12.5	9.7	7.5	15.5	6.8	P7214-ND	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D112
		1000	1465	1800	2970	25	2500	13.5	14.4	11.0	16.5	10.5	P7215-ND	1.33	11.40	95.00	542.00	507.00/M	490.00/M	ERZ-V10D182
14	D Ser.V	11	14	18	36	10	1000	15.5	4.6	7.5	18.5	1.3	P7306-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D180
		14	18	22	43	10	1000	15.5	4.7	7.5	18.5	1.4	P7307-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D220
		17	22	27	53	10	1000	15.5	4.8	7.5	18.5	1.5	P7308-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D270
		20	26	33	65	10	1000	15.5	5.0	7.5	18.5	1.7	P7309-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D330
		25	31	39	77	10	1000	15.5	4.9	7.5	18.5	1.6	P7310-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D390
		30	38	47	93	10	1000	15.5	5.0	7.5	18.5	1.7	P7311-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D470
		35	45	56	110	10	1000	15.5	5.1	7.5	18.5	1.8	P7312-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D560
		40	56	68	135	10	1000	15.5	5.3	7.5	18.5	2.0	P7313-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D680
		50	65	82	135	50	4500	15.5	4.5	7.5	18.5	1.6	P7216-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D820
		60	85	100	165	50	4500	15.5	4.7	7.5	18.5	1.8	P7262-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D101
		75	100	120	200	50	4500	15.5	4.9	7.5	18.5	2.0	P7263-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D121
		95	125	150	250	50	4500	15.5	5.2	7.5	18.5	2.3	P7264-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D151
		130	170	200	340	50	4500	15.5	4.8	7.5	18.5	1.9	P7217-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D201
		140	180	220	360	50	4500	15.5	4.9	7.5	18.5	2.0	P7218-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D221
		150	200	240	395	50	4500	15.5	5.0	7.5	18.5	2.1	P7219-ND	.49	4.23	35.25	200.93	188.00/M	182.00/M	ERZ-V14D241
		175	225	270	455	50	4500	15.5	5.2	7.5	18.5	2.3	P7220-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D271
		210	270	330	545	50	4500	15.5	5.5	7.5	18.5	2.6	P7221-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D331
		230	300	360	595	50	4500	15.5	5.7	7.5	18.5	2.8	P7265-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D361
		250	320	390	650	50	4500	15.5	5.8	7.8	18.5	2.9	P7266-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D391
		275	350	430	710	50	4500	15.5	6.0	7.5	18.5	3.1	P7267-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D431
		300	385	470	775	50	4500	15.5	6.2	7.5	18.5	3.3	P7222-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D471
		320	410	510	845	50	4500	15.5	6.4	7.5	18.5	3.5	P7223-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D511
		385	505	620	1025	50	4500	16.0	7.1	7.5	19.0	4.2	P7268-ND	.91	7.83	65.25	372.00	348.00/M	337.00/M	ERZ-V14D621
		420	560	680	1120	50	4500	16.0	7.4	7.5	19.0	4.5	P7269-ND	.91	7.83	65.25	372.00	348.00/M	337.00/M	ERZ-V14D681
		460	615	750	1240	50	4500	16.0	7.8	7.5	19.0	4.9	P7270-ND	.94	8.06	67.13	383.00	358.00/M	346.00/M	ERZ-V14D751
		510	670	820	1355	50	4500	16.0	8.1	7.5	19.0	5.2	P7224-ND	.94	8.06	67.13	383.00	358.00/M	346.00/M	ERZ-V14D821
		550	745	910	1500	50	4500	16.0	8.6	7.5	19.0	5.7	P7225-ND	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D911
		625	825	1000	1650	50	4500	16.0	9.1	7.5	19.0	6.2	P7271-ND	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D102
		680	895	1100	1815	50	4500	16.0	9.7	7.5	19.0	6.8	P7226-ND	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D112
		1000	1465	1800	2970	50	4500	17.0	14.4	15.0	20.5	10.5	P7227-ND	1.99	17.04	142.00	809.00	757.00/M	733.00/M	ERZ-V14D182
20	D Ser.V	11	14	18	36	20	2000	21.5	5.1	10.0	24.5	1.5	P7314-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D180
		14	18	22	43	20	2000	21.5	5.2	10.0	24.5	1.6	P7315-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D220
		17	22	27	53	20	2000	21.5	5.3	10.0	24.5	1.7	P7316-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D270
		20	26	33	65	20	2000	21.5	5.5	10.0	24.5	1.9	P7317-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D330
		25	31	39	77	20	2000	21.5	5.5	10.0	24.5	1.9	P7318-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D390
		30	38	47	93	20	2000	21.5	5.6	10.0	24.5	2.0	P7319-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D470
		35	45	56	110	20	2000	21.5	5.7	10.0	24.5	2.1	P7320-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D560
		40	56	68	135	20	2000	21.5	5.8	10.0	24.5	2.2	P7321-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D680
		50	65	82	135	100	6500	21.5	4.9	10.0	24.5	1.8	P7228-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D820
		60	85	100	165	100	6500	21.5	5.1	10.0	24.5	2.0	P7272-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D101
		75	100	120	200	100	6500	21.5	5.3	10.0	24.5	2.2	P7273-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D121
		95	125	150	250	100	6500	21.5	5.6	10.0	24.5	2.5	P7274-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D151
		130	170	200	340	100	6500	21.5	5.2	7.5	24.5	2.1	P7322-ND	.96	8.20	68.32	389.00	364.00/M	353.00/M	ERZ-V20R201
		130	170	200	340	100	6500	21.5	5.2	10.0	24.5	2.1	P7229-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D201
		140	180	220	360	100	6500	21.5	5.3	7.5	24.5	2.2	P7323-ND	.85	7.29	60.75	346.00	324.00/M	313.00/M	ERZ-V20R221
		140	180	220	360	100	6500	21.5	5.3	10.0	24.5	2.2	P7230-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D221
		150	200	240	395	100	6500	21.5	5.4	7.5	24.5	2.3	P7324-ND	.85	7.29	60.75	346.28	324.00/M	313.47/M	ERZ-V20R241
		150	200	240	395	100	6500	21.5	5.4	10.0	24.5	2.3	P7231-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D241
		175	225	270	455	100	6500	21.5	5.6	7.5	24.5	2.5	P7325-ND	.85	7.29	60.75	346.28	324.00/M	313.47/M	ERZ-V20R271
		175	225	270	455	100	6500	21.5	5.6	10.0	24.5	2.5	P7232-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D271
		210	270	330	545	100	6500	21.5	5.9	7.5	24.5	2.8	P7326-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R331
		210	270	330	545	100	6500	21.5	5.9	10.0	24.5	2.8	P7233-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D331
		230	300	360	595	100	6500	21.5	6.1	7.5	24.5	3.0	P7327-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R361
		230	300	360	595	100	6500	21.5	6.1	10.0	24.5	3.0	P7275-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D361
		250	320	390	650	100	6500	21.5	6.2	7.5	24.5	3.1	P7328-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R391
		250	320	390	650	100	6500	21.5	6.2	10.0	24.5	3.1	P7276-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D391
		275	350	430	710	100	6500	21.5	6.4	7.5	24.5	3.3	P7329-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R431
		275	350	430	710	100	6500	21.5	6.4	10.0	24.5	3.3	P7277-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D431
		300	385	470	775	100	6500	21.5	6.6	7.5	24.5	3.5	P7330-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R471
		300	385	470	775	100	6500	21.5	6.6	10.0	24.5	3.5	P7234-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D471
		320	410	510	845	100	6500	21.5	6.8	7.5	24.5	3.7	P7331-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R511
		320	410	510	845	100	6500	21.5	6.8	10.0	24.5	3.7	P7235-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D511
		385	505	620	1025	100	6500	22.5	7.5	10.0	25.5	4.4	P7278-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D621
		420	560	680	1120	100	6500	22.5	7.8	10.0	25.5	4.7	P7279-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D681
		460	615	750	1240	100	6500	22.5	8.2	10.0	25.5	5.1	P7280-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D751
		510	670	820	1355	100	6500	22.5	8.5	10.0	25.5	5.4	P7236-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D821

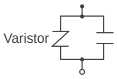
(Continued)

Panasonic® "ZNR" Transient/Surge Absorbers Type D and E *(Cont.)*

Series	Type	Max. Allow. Volt. (V) AC	Max. Allow. Volt. (V) DC	Varistor Volt. ±10% (V)	Max. Clamp Volt. @ Test Current (8/20µsec.) Vc(V)	Ip(A)	Surge Current (A)	Dimensions (mm) D Max.	T Max.	W ±1	H Max.	L ±1	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
20	D Ser.V	550	745	910	1500	100	6500	22.5	9.0	10.0	25.5	5.9	P7237-ND	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D911
		625	825	1000	1650	100	6500	22.5	9.5	10.0	25.5	6.4	P7281-ND	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D102
		680	895	1100	1815	100	6500	22.5	10.1	10.0	25.5	7.0	P7238-ND	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D112
		1000	1465	1800	2970	100	6500	23.5	14.8	15.0	28.0	10.7	P7239-ND	3.77	32.31	269.25	1535.00	1436.00/M	1389.00/M	ERZ-V20D182
7	D	140	180	220	360	10	1200	9.0	5.3	5.0	12.0	2.1	P7066-ND	.46	3.90	32.50	185.00	173.00/M	168.00/M	ERZ-C07DK221U
10	D	95	125	150	250	25	2500	13.5	5.5	7.5	16.5	2.2	P7057-ND	.63	5.40	45.00	257.00	240.00/M	232.00/M	ERZ-C10DK151
20	D	60	85	100	165	100	6500	23.0	5.6	10.0	27.0	2.0	P7049-ND	1.13	9.69	80.75	460.00	431.00/M	417.00/M	ERZ-C20DK101
		385	505	620	1025	100	6500	24.0	7.6	10.0	28.0	4.1	P7102-ND	2.65	22.68	189.00	1077.00	1008.00/M	975.00/M	ERZ-C20DK621U
20	E	130	170	200	340	100	8000	—	—	48.0	42.0	39.0	P7126-ND	20.58	176.40	1470.00	8379.00	7840.00/M	7585.00/M	ERZ-C20EK201
		150	200	240	395	100	8000	—	—	48.0	42.0	39.0	P7127-ND	20.58	176.40	1470.00	8379.00	7840.00/M	7585.00/M	ERZ-C20EK241
		250	320	390	650	100	8000	—	—	48.0	42.0	39.0	P7128-ND	24.50	210.00	1750.00	9975.00	9333.00/M	9030.00/M	ERZ-C20EK391
25	E	130	170	200	340	150	15000	—	—	60.0	55.0	51.0	P7129-ND	36.72	314.73	2622.75	14950.00	13988.00/M	13533.00/M	ERZ-C25EK201
		510	670	820	1355	150	15000	—	—	60.0	55.0	51.0	P7157-ND	45.17	387.15	3226.25	18390.00	17207.00/M	16647.00/M	ERZ-C25EK821
32	E	130	170	200	340	200	25000	—	—	60.0	55.0	51.0	P7132-ND	45.54	390.30	3252.50	18539.00	17347.00/M	16783.00/M	ERZ-C32EK201
		150	200	240	395	200	25000	—	—	60.0	55.0	51.0	P7133-ND	45.54	390.30	3252.50	18539.00	17347.00/M	16783.00/M	ERZ-C32EK241
		250	320	390	650	200	25000	—	—	60.0	55.0	51.0	P7134-ND	47.36	405.90	3382.50	19280.00	18040.00/M	17454.00/M	ERZ-C32EK391
		550	1500	910	1500	200	25000	—	—	60.0	55.0	51.0	P7135-ND	62.69	537.30	4477.50	25522.00	23880.00/M	23104.00/M	ERZ-C32EK911

Panasonic® Multilayer Varistor Strontium Titanate (0805 Size) Surface Mount



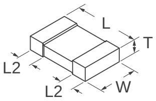


Equivalent Circuit

For EMI noise suppression and transient surge protection. **Features:** • Multilayer monolithic construction of SrTiO3 ceramics • Low varistor voltage with high parallel capacitance • Fast response to high speed transient overvoltage for ESD protection (IEC1000-4-2) • dV/dt reduction resulting from the large capacitance • Large withstanding surge and energy capabilities • Operating Temperature Range: -40°C to 85°C

Appl. Circuit DC	Max. Allow. Volt.	Varistor Voltage (V0.1mA)	Cap. @ 1KHz	Tolerance	Max. Peak Current (8/20µs, 2 times)	Max. Energy (2ms)	Dim. (mm) H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	5,000	Panasonic Part No.
5V Line	DC06	8-15V	22000	+80%/-20%	25A	0.2J	1.0	P223ZJCT-ND	.72	.64	.54	P223ZJTR-ND	—	293.00/M	EZJ-S2VB223
12V Line	DC18	24-35V	8200				1.45	P822ZJCT-ND	.72	.64	.54	P822ZJTR-ND	293.00/M	—	EZJ-S2YC822
24V Line	DC30	40-60V	4700				1.45	P472ZJCT-ND	.73	.65	.55	P472ZJTR-ND	293.00/M	—	EZJ-S2YD472

Multilayer Varistor Zinc Oxide Type (0402 and 0603 Sizes) Surface Mount



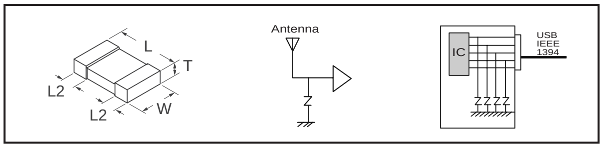
Features:
Multilayer Varistor of Zinc Oxide ceramics suppresses pulse noise (ESD, burst-noise) and protects equipment from the transient surges. This Varistor is suitable for high-speed signal line due to small capacitance. • Low insertion signal loss due to small capacitance • Large withstanding capabilities to ESD (Max. 8kV by IEC test method) • Excellent solderability and superior heat resistance due to plate (Ni/solder) electrode

Application:
For suppression of pulse noise (ESD etc.) in electronic equipment • Cellular phone • PDA • PC and Peripheral equipment

Size	Varistor Voltage	Max. Voltage VDC	Clamping Voltage 8/20µs, 2A	Cap. (pF)	Peak Current (A)	Dimensions (mm) L	W	T	L2	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	10,000	Panasonic Part No.
0402	12	6.7	30	220	10	1.00	0.50	0.50	0.20	P11403CT-ND	.57	.51	.43	P11403TR-ND	—	137.00/M	EZJ-Z0V120JA
	27	16	50	47	10	1.00	0.50	0.50	0.20	P11404CT-ND	.57	.51	.43	P11404TR-ND	—	137.00/M	EZJ-Z0V270EA
0603	12	6.7	—	330	20	1.60	0.80	0.80	0.30	P12005CT-ND *NEW!*	.52	.39	.28	P12005TR-ND *NEW!*	142.00/M	—	EZJ-Z1V120KA
	27	20	50	100	20	1.60	0.80	0.80	0.30	P10862CT-ND	1.09	.97	.81	P10862TR-ND	156.00/M	—	EZJ-Z1V270GA
	33	26	58	100	20	1.60	0.80	0.80	0.30	P10863CT-ND	1.09	.97	.81	P10863TR-ND	156.00/M	—	EZJ-Z1V330GA

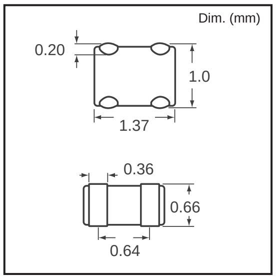
Multilayer Varistor – Ultra-Low Capacitance Zinc Oxide Type (0402 and 0603 Size) Surface Mount

Features:
Multilayer Varistor of Zinc Oxide ceramics suppresses pulse noise (ESD, burst-noise) and protects equipment from transient surges. This Varistor is suitable for RF antenna/RF amplifier due to ultra-low capacitance.
• Low insertion signal loss due to ultra-low capacitance (3pF) • Large withstanding capabilities to ESD (Max. 8kV by IEC test method) • Excellent solderability and superior heat resistance due to plate (Ni/solder) electrode
Application:
For suppression of pulse noise (ESD etc.) in RF antenna/RF amplifier • Cellular phone • PDA • Wireless LAN applications • PC and Peripheral equipment • Interface: USB, IEEE 1394



Size	Varistor Voltage	Max. Voltage VDC	ESD Max. (kV)	Cap. (pF)	Dimensions (mm) L	W	T	L2	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	10,000	Panasonic Part No.
0402	170	18	8	3	1.00	0.50	0.50	0.20	P11402CT-ND	.57	.51	.43	P11402TR-ND	—	137.00/M	EZJ-Z0V171AA
	80								P11992CT-ND *NEW!*	.45	.34	.24	P11992TR-ND *NEW!*	—	120.00/M	EZJ-Z0V800AA
0603	170	18	—	3	1.60	0.80	0.80	0.30	P12006CT-ND *NEW!*	.52	.39	.28	P12006TR-ND *NEW!*	142.00/M	—	EZJ-Z1V171AA

NEW! Multilayer Varistor Array Chip Type - 0504 Size



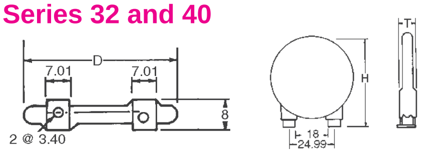
Features:
- Industry's smallest capacitance suitable for high-speed multiple signal lines
- 2-chip type with the noise filter function available (suitable for the audio line of mobile phones)

Varistor Voltage	Max. Voltage VDC	ESD Max.	Clamping Voltage Max. 8/20µs, 1A	Cap. Max. (pF)	Peak Current Max. (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
27	16	—	50V	22	5	P11987CT-ND	1.63	1.23	.92	P11987TR-ND	523.00/M	EZJ-ZSV270CAK
27	16	—	50V	27	5	P11988CT-ND	1.63	1.23	.92	P11988TR-ND	523.00/M	EZJ-ZSV270DAK
12	6.7	30V	—	220	5	P11989CT-ND	1.32	.99	.75	P11989TR-ND	421.00/M	EZJ-ZSV120JA
27	16	—	50	47	5	P11990CT-ND	1.32	.99	.75	P11990TR-ND	421.00/M	EZJ-ZSV270EA
170	18	8kV	—	3	—	P11991CT-ND	1.32	.99	.75	P11991TR-ND	421.00/M	EZJ-ZSV171AA

Panasonic® ZNR/Surge Absorbers With Tabs – Type C Series 32 and 40

These are heavy duty type ZNR with very unique tab terminals which are used as electrical connecting terminals and also its mounting legs. This ZNR is meant for application in power supplies or transient voltage surge suppressor units where high surge current or high surge energy absorption is required.

Features: • High energy handling capability (210 to 710 joules) • Large withstanding surge current (25 to 30kA) • Compact size • Common terminals for electrical connection and mounting • UL recognized



Series	Type	Max. Allow. Volt. (V) AC	DC	Varistor Volt. ±10% (V)	Max. Clamp Volt. @ Test Current (8/20µsec.) Vc(V)	Lp(A)	Surge Current (kA)	Dimensions (mm) D max.	T ±.99	H max.	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
32	C	130	170	200	340	200	25	35.99	7.49	46.00	P7158-ND	16.53	141.69	1180.75	6730.00	6297.00/M	6093.00/M	ERZ-C32CK201B
		150	200	240	395	200	25	35.99	7.49	46.00	P7159-ND	16.53	141.69	1180.75	6730.00	6297.00/M	6093.00/M	ERZ-C32CK241B
		230	300	360	595	200	25	35.99	8.99	46.00	P7160-ND	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK361B
		250	320	390	650	200	25	35.99	8.99	46.00	P7161-ND	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK391B
		275	350	430	710	200	25	35.99	8.99	46.00	P7162-ND	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK431B
		385	505	620	1025	200	25	35.99	9.70	46.00	P7163-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK621B
		420	560	680	1120	200	25	35.99	9.70	46.00	P7164-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK681B
		460	615	750	1240	200	25	35.99	11.51	46.00	P7165-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK751B
		485	640	780	1290	200	25	35.99	11.51	46.00	P7166-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK781B
		510	670	820	1355	200	25	35.99	11.51	46.00	P7167-ND	21.75	186.45	1553.75	8856.00	8287.00/M	8017.00/M	ERZ-C32CK821B
		550	745	910	1500	200	25	35.99	11.51	46.00	P7168-ND	23.39	200.49	1670.75	9523.00	8911.00/M	8621.00/M	ERZ-C32CK911B
40	C	130	170	200	340	250	30	43.99	7.49	50.01	P7169-ND	24.79	212.52	1771.00	10095.00	9445.00/M	9138.00/M	ERZ-C40CK201B
		150	200	240	395	250	30	43.99	7.49	50.01	P7170-ND	24.79	212.52	1771.00	10095.00	9445.00/M	9138.00/M	ERZ-C40CK241B
		230	300	360	595	250	30	43.99	8.99	50.01	P7171-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK361B
		250	320	390	650	250	30	43.99	8.99	50.01	P7172-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK391B
		275	350	430	710	250	30	43.99	8.99	50.01	P7173-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK431B
		385	505	620	1025	250	30	43.99	9.70	50.01	P7174-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK621B
		420	560	680	1120	250	30	43.99	9.70	50.01	P7175-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK681B
		460	615	750	1240	250	30	43.99	11.51	50.01	P7176-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK751B
		485	640	780	1290	250	30	43.99	11.51	50.01	P7177-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK781B
		510	670	820	1355	250	30	43.99	11.51	50.01	P7178-ND	32.28	276.66	2305.50	13141.00	12296.00/M	11896.00/M	ERZ-C40CK821B
		550	745	910	1500	250	30	43.99	11.51	50.01	P7179-ND	33.84	290.04	2417.00	13777.00	12891.00/M	12472.00/M	ERZ-C40CK911B

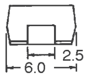
Surface Mount ZNR/Surge Absorbers Type CF, SF, VFM and VFT

Features:

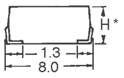
- Temperature Char. of Varistor Voltage 0 to -0.05%/°C
- Operating Temperature Range: -40°C to 85°C
- Storage Temperature Range: -40°C to 125°C
- Designed for flow/reflow soldering
- Excellent response against high steep surge voltage
- Compact package with large withstanding surge capability
- Low Clamping Voltage for better surge protection
- SF Type has the ability to withstand 2 or 3 times the surge current of the CF Type
- VFT Type has low height

Applications:

- For suppression of surge in electronic equipment
- Semiconductors
- Telephone or telecommunication system
- DAA modules, modem
- Router, Terminal adapter (Digital modem)
- Power supply



Dim.: (mm)



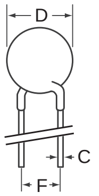
Type	Height*
CF	3.2
SF	3.2
VFM	3.2
VFT	2.4

Type	Varistor Voltage ±10% (V)	Max. Allowable Voltage (V) AC	DC	Max. Clamping Voltage Vxa(V)♦	Rated Power (W)	Energy (2ms) (J)	Maximum† Peak Current	Digi-Key Part No.	Cut Tape Price Each 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 2,000	6,000	10,000	Panasonic Part No.
CF	22	14	18	48	0.01	0.4	50	P220ZFCT-ND	1.85	1.55	1.25	P220ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK220
	27	17	22	60	0.01	0.5	50	P270ZFCT-ND	1.85	1.55	1.25	P270ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK270
	33	20	26	73	0.01	0.6	50	P330ZFCT-ND	1.85	1.55	1.25	P330ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK330
	39	25	31	86	0.01	0.8	50	P390ZFCT-ND	1.85	1.55	1.25	P390ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK390
	47	30	38	104	0.01	1.0	50	P470ZFCT-ND	1.85	1.55	1.25	P470ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK470
	56	35	45	123	0.01	1.0	50	P560ZFCT-ND	1.85	1.55	1.25	P560ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK560
	68	40	56	150	0.01	1.2	50	P680ZFCT-ND	1.85	1.55	1.25	P680ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK680
	82	50	65	145	0.1	1.7	200	P820ZFCT-ND	1.85	1.55	1.25	P820ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK820
	100	60	85	175	0.1	2.0	200	P101ZFCT-ND	1.85	1.55	1.25	P101ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK101
	120	75	100	210	0.1	2.5	200	P121ZFCT-ND	1.85	1.55	1.25	P121ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK121
	150	95	125	200	0.1	3.0	200	P151ZFCT-ND	1.85	1.55	1.25	P151ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK151
	200	130	170	355	0.1	4.0	200	P201ZFCT-ND	1.85	1.55	1.25	P201ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK201
	220	140	180	380	0.1	4.5	200	P221ZFCT-ND	1.85	1.55	1.25	P221ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK221
	240	150	200	415	0.1	5.0	200	P241ZFCT-ND	1.85	1.55	1.25	P241ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK241
	270	175	225	475	0.1	6.0	200	P271ZFCT-ND	1.85	1.55	1.25	P271ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK271
	360	230	300	620	0.1	6.0	200	P361ZFCT-ND	1.85	1.55	1.25	P361ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK361
	390	260	320	675	0.1	6.0	200	P391ZFCT-ND	1.85	1.55	1.25	P391ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK391
	430	275	350	745	0.1	6.3	200	P431ZFCT-ND	1.85	1.55	1.25	P431ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK431
	470	300	385	810	0.1	7.0	200	P471ZFCT-ND	1.85	1.55	1.25	P471ZFTR-ND	833.00/M	777.00/M	729.00/M	ERZ-CF2MK471
SF	22	14	18	43	0.02	0.9	125	P220ZSCT-ND	2.01	1.68	1.36	P220ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK220
	27	17	22	53	0.02	1.0	125	P270ZSCT-ND	2.01	1.68	1.36	P270ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK270
	33	20	26	65	0.02	1.2	125	P330ZSCT-ND	2.01	1.68	1.36	P330ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK330
	39	25	31	77	0.02	1.5	125	P390ZSCT-ND	2.01	1.68	1.36	P390ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK390
	47	30	38	93	0.02	1.8	125	P470ZSCT-ND	2.01	1.68	1.36	P470ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK470
	56	35	45	110	0.02	2.2	125	P560ZSCT-ND	2.01	1.68	1.36	P560ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK560
	68	40	56	135	0.02	2.5	125	P680ZSCT-ND	2.01	1.68	1.36	P680ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK680
	82	50	65	135	0.25	3.5	600	P820ZSCT-ND	2.01	1.68	1.36	P820ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK820
	120	75	100	200	0.25	5.0	600	P121ZSCT-ND	2.01	1.68	1.36	P121ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK121
	220	140	180	360	0.25	9.0	600	P221ZSCT-ND	2.01	1.68	1.36	P221ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK221
	240	150	200	395	0.25	10.0	600	P241ZSCT-ND	2.01	1.68	1.36	P241ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK241
	270	175	225	455	0.25	12.0	600	P271ZSCT-ND	2.01	1.68	1.36	P271ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK271
	390	250	320	650	0.25	12.0	400	P391ZSCT-ND	2.01	1.68	1.36	P391ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK391
	470	300	385	775	0.25	12.0	400	P471ZSCT-ND	2.01	1.68	1.36	P471ZSTR-ND	924.00/M	861.00/M	808.00/M	ERZ-SF2MK471
VFM	82	50	65	135	0.1	2.5	600	P7337CT-ND	1.64	1.37	1.11	P7337TR-ND	752.00/M	701.00/M	658.00/M	ERZ-VF2M820
	100	60	85	165	0.1	3.0	600	P7338CT-ND	1.64	1.37	1.11	P7338TR-ND	752.00/M	701.00/M	658.00/M	ERZ-VF2M101
	120	75	100	200	0.1	3.5	600	P7339CT-ND	1.64	1.37	1.11	P7339TR-ND	752.00/M	701.00/M	658.00/M	ERZ-VF2M121
	150	95	125	250	0.1	4.5	600	P7340CT-ND	1.64	1.37	1.11	P7340TR-ND	752.00/M	701.00/M	658.00/M	ERZ-VF2M151
	200	130	170	340	0.1	6.0	600	P7341CT-ND	1.64	1.37	1.11	P7341TR-ND	752.00/M	701.00/M	658.00/M	ERZ-VF2M201
	220	140	180	360	0.1	6.5	600	P7342CT-ND	1.64	1.37	1.11	P7342TR-ND	752.00/M	701.00/M	658.00/M	ERZ-VF2M221
	240	150	200	395	0.1	7.5	600	P7343CT-ND	1.64	1.37	1.11	P7343TR-ND	752.00/M	701.00/M	658.00/M	ERZ-VF2M241
	270	175	225	455	0.1	8.0	600	P7344CT-ND	1.64	1.37	1.11	P7344TR-ND	752.00/M	701.00/M	658.00/M	ERZ-VF2M271
VFT	82	50	65	145	0.1	1.7	400	P7332CT-ND	1.59	1.34	1.08	P7332TR-ND	732.00/M	682.00/M	640.00/M	ERZ-VF2T820
	100	60	85	175	0.1	2.0	400	P7333CT-ND	1.59	1.34	1.08	P7333TR-ND	732.00/M	682.00/M	640.00/M	ERZ-VF2T101
	150	95	125	260	0.1	3.0	400	P7334CT-ND	1.59	1.34	1.08	P7334TR-ND	732.00/M	682.00/M	640.00/M	ERZ-VF2T151
	240	150	200	415	0.1	5.0	400	P7335CT-ND	1.59	1.34	1.08	P7335TR-ND	732.00/M	682.00/M	640.00/M	ERZ-VF2T241
	270	175	225	475	0.1	6.0	400	P7336CT-ND	1.59	1.34	1.08	P7336TR-ND	732.00/M	682.00/M	640.00/M	ERZ-VF2T271

† (8/20 us, 2 times), ♦ Measuring Current of Maximum Clamping Voltage is as follows: For Varistor Voltage of 22 to 68 V: xA=1A, For Varistor Voltage of 82 to 470 V: xA=5A, For Varistor Voltage of VFM: xA=10A

Leaded Varistors

The varistors consist of a disc of low-B ceramic material with two tinned solid copper leads. They are coated with a layer of ochre colored epoxy, which provides electrical, mechanical and climatic protection.
The encapsulation is resistant to all cleaning solvents in accordance with "IEC 60068-2-45".



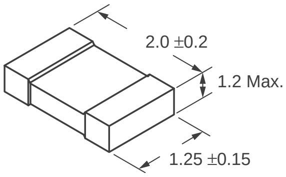
Size Code	Dimensions (mm) D Max.	A Max.	L Min.	T Max.	T Min.	C	F
A	7.0	9.0	27.0	6.0	4.1	0.6 ±0.05	5.0 +0.6/-0.1
B	9.0	11.0	27.0	6.0	4.1	0.6 ±0.05	5.0 +0.6/-0.1
C	13.5	15.5	17.0	7.0	4.4	0.8 ±0.05	7.5 ±0.8
D	17.0	19.0	16.0	7.0	4.4	0.8 ±0.05	7.5 ±0.8

	Maximum Continuous Volt.		Varistor Voltage@	Max. Volt. Stated Current			Price Each			
Size Code	AC (V)	DC (V)	@ 1mA (V)	V (V)	I (A)	Digi-Key Part No.	1	10	100	BC Components Part No.
A	30	38	47	96	1.0	BC1382-ND	.30	.26	.22	2322 592 53006
A	35	45	56	123	1.0	BC1383-ND	.30	.26	.22	2322 592 53506
A	40	56	68	145	1.0	BC1384-ND	.30	.26	.22	2322 592 54006
A	50	65	82	145	5.0	BC1385-ND	.30	.26	.22	2322 592 55006
A	60	85	100	165	5.0	BC1386-ND	.30	.26	.22	2322 592 56006
A	75	100	120	190	5.0	BC1387-ND	.30	.26	.22	2322 592 57506
A	95	125	150	230	5.0	BC1388-ND	.30	.26	.22	2322 592 59506
A	130	170	205	310	5.0	BC1389-ND	.30	.26	.22	2322 592 51316
A	140	180	220	350	5.0	BC1390-ND	.32	.28	.23	2322 592 51416
A	150	200	240	395	5.0	BC1391-ND	.30	.26	.22	2322 592 51516
A	175	225	275	410	5.0	BC1392-ND	.30	.26	.22	2322 592 51716
A	230	300	360	560	5.0	BC1393-ND	.30	.26	.22	2322 592 52316
A	250	320	390	600	5.0	BC1394-ND	.30	.26	.22	2322 592 52516
A	275	350	430	695	5.0	BC1395-ND	.30	.26	.22	2322 592 52716
A	300	385	470	750	5.0	BC1396-ND	.30	.26	.22	2322 592 53016
A	320	420	510	800	5.0	BC1397-ND	.30	.26	.22	2322 592 53216
A	385	505	620	1000	5.0	BC1398-ND	.30	.26	.22	2322 592 53816
A	420	560	680	1100	5.0	BC1399-ND	.30	.26	.22	2322 592 54216
A	460	615	750	1200	5.0	BC1400-ND	.30	.26	.22	2322 592 54616
B	30	38	47	93	2.5	BC1401-ND	.35	.30	.25	2322 593 53006
B	35	45	56	115	2.5	BC1402-ND	.35	.30	.25	2322 593 53506
B	40	56	68	135	2.5	BC1403-ND	.35	.30	.25	2322 593 54006
B	50	65	82	140	10.0	BC1404-ND	.35	.30	.25	2322 593 55006
B	60	85	100	165	10.0	BC1405-ND	.35	.30	.25	2322 593 56006
B	75	100	120	200	10.0	BC1406-ND	.35	.30	.25	2322 593 57506
B	95	125	150	250	10.0	BC1407-ND	.35	.30	.25	2322 593 59506
B	130	170	205	340	10.0	BC1408-ND	.35	.30	.25	2322 593 51316
B	140	180	220	370	10.0	BC1409-ND	.35	.30	.25	2322 593 51416
B	150	200	240	400	10.0	BC1410-ND	.35	.30	.25	2322 593 51516
B	175	225	275	455	10.0	BC1411-ND	.35	.30	.25	2322 593 51716
B	230	300	360	600	10.0	BC1412-ND	.37	.32	.27	2322 593 52316
B	250	320	390	650	10.0	BC1413-ND	.35	.30	.25	2322 593 52516
B	275	350	430	710	10.0	BC1414-ND	.35	.30	.25	2322 593 52716
B	300	385	470	800	10.0	BC1415-ND	.35	.30	.25	2322 593 53016
B	320	420	510	850	10.0	BC1416-ND	.35	.30	.25	2322 593 53216
B	385	505	620	1025	10.0	BC1417-ND	.35	.30	.25	2322 593 53816
B	420	560	680	1120	10.0	BC1418-ND	.35	.30	.25	2322 593 54216
B	460	615	750	1240	10.0	BC1419-ND	.35	.30	.25	2322 593 54616
C	30	38	47	93	5.0	BC1420-ND	.53	.46	.38	2322 594 53006
C	35	45	56	110	5.0	BC1421-ND	.53	.46	.38	2322 594 53506

	Maximum Continuous Volt.		Varistor Voltage@	Max. Volt. Stated Current			Price Each			
Size Code	AC (V)	DC (V)	@ 1mA (V)	V (V)	I (A)	Digi-Key Part No.	1	10	100	BC Components Part No.
C	40	56	68	130	5.0	BC1422-ND	.53	.46	.38	2322 594 54006
C	50	65	82	140	25.0	BC1423-ND	.53	.46	.38	2322 594 55006
C	60	85	100	165	25.0	BC1424-ND	.53	.46	.38	2322 594 56006
C	75	100	120	200	25.0	BC1425-ND	.53	.46	.38	2322 594 57506
C	95	125	150	250	25.0	BC1426-ND	.53	.46	.38	2322 594 59506
C	130	170	205	340	25.0	BC1427-ND	.53	.46	.38	2322 594 51316
C	140	180	220	370	25.0	BC1428-ND	.53	.46	.38	2322 594 51416
C	150	200	240	400	25.0	BC1429-ND	.53	.46	.38	2322 594 51516
C	175	225	275	455	25.0	BC1430-ND	.53	.46	.38	2322 594 51716
C	230	300	360	600	25.0	BC1431-ND	.53	.46	.38	2322 594 52316
C	250	320	390	650	25.0	BC1432-ND	.53	.46	.38	2322 594 52516
C	275	350	430	710	25.0	BC1433-ND	.53	.46	.38	2322 594 52716
C	300	385	470	800	25.0	BC1434-ND	.53	.46	.38	2322 594 53016
C	320	420	510	850	25.0	BC1435-ND	.53	.46	.38	2322 594 53216
C	385	505	620	1025	25.0	BC1436-ND	.53	.46	.38	2322 594 53816
C	420	560	680	1120	25.0	BC1437-ND	.53	.46	.38	2322 594 54216
C	460	615	750	1240	25.0	BC1438-ND	.53	.46	.38	2322 594 54616
C	510	670	820	1355	25.0	BC1439-ND	.53	.46	.38	2322 594 55116
C	550	745	910	1500	25.0	BC1440-ND	.53	.46	.38	2322 594 55516
D	30	38	47	90	10.0	BC1441-ND	.68	.58	.49	2322 595 53006
D	35	45	56	105	10.0	BC1442-ND	.67	.58	.49	2322 595 53506
D	40	56	68	130	10.0	BC1443-ND	.67	.58	.49	2322 595 54006
D	50	65	82	140	50.0	BC1444-ND	.67	.58	.49	2322 595 55006
D	60	85	100	165	50.0	BC1445-ND	.67	.58	.49	2322 595 56006
D	75	100	120	200	50.0	BC1446-ND	.67	.58	.49	2322 595 57506
D	95	125	150	250	50.0	BC1447-ND	.67	.58	.49	2322 595 59506
D	130	170	205	340	50.0	BC1448-ND	.68	.58	.49	2322 595 51316
D	140	180	220	370	50.0	BC1449-ND	.68	.58	.49	2322 595 51416
D	150	200	240	400	50.0	BC1450-ND	.67	.58	.49	2322 595 51516
D	175	225	275	455	50.0	BC1451-ND	.67	.58	.49	2322 595 51716
D	230	300	360	600	50.0	BC1452-ND	.67	.58	.49	2322 595 52316
D	250	320	390	650	50.0	BC1453-ND	.68	.58	.49	2322 595 52516
D	275	350	430	710	50.0	BC1454-ND	.67	.58	.49	2322 595 52716
D	300	385	470	800	50.0	BC1455-ND	.67	.58	.49	2322 595 53016
D	320	420	510	850	50.0	BC1456-ND	.67	.58	.49	2322 595 53216
D	385	505	620	1025	50.0	BC1457-ND	.67	.58	.49	2322 595 53816
D	420	560	680	1120	50.0	BC1458-ND	.67	.58	.49	2322 595 54216
D	460	615	750	1240	50.0	BC1459-ND	.67	.58	.49	2322 595 54616
D	510	670	820	1355	50.0	BC1460-ND	.67	.58	.49	2322 595 55116
D	550	745	910	1500	50.0	BC1461-ND	.67	.58	.49	2322 595 55516

Multilayer Chip Varistor

(0805 Size) Surface Mount



Features:

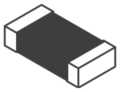
- Multilayer Surface Mount surge suppressor
- Inherent bidirectional clamping
- Low capacitance types available
- Excellent energy/volume ratio
- Suitable for wave or reflow soldering
- Compliance to IEC 1 000-4-2
- Operating Temperature Range: -55°C to +125°C

Applications:

- Data lines and I/O port protection
- Protection against EMI and ESD transients
- On-board protection of ICs and transistors
- Modem protection
- LCD protection

Max. Operating Voltage RMS (VAC)	DC (VDC)	Varistor Volt. @ 1mA Min. (V)	Max. (V)	Max. Clamping Volt. @ 1mA (V)	Max. Peak Current 8 x 20 µs (A)	Max. Surge Energy 10 x 1000 µs (J)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	BC Components Part No.
4	5.5	6.4	9.6	21	30	0.1	BC1500CT-ND	.39	.35	.29	BC1500TR-ND	159.50/M	2322 574 10403
6	8	_	_	27	80	0.3	BC1501CT-ND	.46	.41	.34	BC1501TR-ND	188.50/M	2322 574 10603
8	11	_	_	33	80	0.3	BC1502CT-ND	.46	.41	.34	BC1502TR-ND	188.50/M	2322 574 10803
10	14	15.3	21.0	35	30	0.1	BC1503CT-ND	.46	.41	.34	BC1503TR-ND	188.50/M	2322 574 11003
14	18	19.8	25.7	40	30	0.1	BC1504CT-ND	.39	.35	.29	BC1504TR-ND	159.50/M	2322 574 11403
17	22	24.3	29.7	46	30	0.1	BC1505CT-ND	.46	.41	.34	BC1505TR-ND	188.50/M	2322 574 11703
20	26	29.7	38.6	56	80	0.3	BC1506CT-ND	.46	.41	.34	BC1506TR-ND	188.50/M	2322 574 12003
25	31	_	_	65	80	0.3	BC1507CT-ND	.46	.41	.34	BC1507TR-ND	188.50/M	2322 574 12503

Littelfuse® Multilayer Varistor TVS Surface Mount ML Series



These components are designed to suppress a variety of transient events, including those specified in the IEC and other standards used for Electromagnetic Compliance (EMC). The ML Series is typically applied to protect integrated circuits and other components at the circuit board level.

SPECIFICATIONS:

- Typical leakage at 25°C<25uA, maximum leakage 50uA at V_M(DC)
- Average power dissipation of transients for 0603, 0805, 1206 and 1210 sizes not to exceed 0.03W, 0.05@, 0.1W, 0.1W and 0.15W respectively

FEATURES:

- Multilayer ceramic construction technology
- Operating Temperature Range: -55°C to +125°C
- Operating Voltage Range: 5.5V to 120V
- Inherent Bi-directional clamping
- No plastic or epoxy packaging assures better than 94V-0 flammability rating

APPLICATIONS:

- Suppression of inductive switching or other transient events such as EFT and surge voltage at the circuit board level
- ESD Protection for components sensitive to IEC 61000-4-2, MIL-STD 883C Method 3015.7 and other industry specifications. (See also the MLE Series)
- Replace larger surface mount TVS zeners in many applications

Part Number Breakdown for ML and MLE Series

V18MLA1206xxx

PACKING OPTIONS
H: Diameter Reel; 7in (178mm)

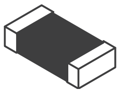
END TERMINATION OPTION
No Letter: Ag/Pt (Standard)
W: Ag/Pd
N: Nickel

CAPACITANCE OPTION
No Letter: Standard
L: Low Capacitance Version. (Where available – see device ratings for standard version).

Package	Max. Cont. Working Voltage		Max. Non-Repetitive Surge Current (8/20µs) (A)	Max. Non-Repetitive Surge Current (10/1000µs) (J)	Nominal Voltage @ 1mA DC Test Current		Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Littelfuse Part No.
	DC	AC			Min.	Max.			1	10	100		Size	Price	
0603	3.5	2.5	30	0.1	3.7	7.0	1100	F2205CT-ND	.53	4.88	36.75	F2205TR-ND	2,500	202.50/M	V3.5MLA0603H
0805	3.5	2.5	40	0.1	3.7	7.0	1200	F2207CT-ND	.56	5.20	39.20	F2207TR-ND	2,500	216.00/M	V3.5MLA0805LH
0805	3.5	2.5	120	0.3	3.7	7.0	2200	F2206CT-ND	.56	5.20	39.20	F2206TR-ND	2,500	216.00/M	V3.5MLA0805H
1206	3.5	2.5	100	0.3	3.7	7.0	6000	F2208CT-ND	1.26	11.70	88.20	F2208TR-ND	2,500	486.00/M	V3.5MLA1206H
0603	5.5	4.0	30	0.1	7.1	9.3	660	F2214CT-ND	.53	4.88	36.75	F2214TR-ND	2,500	202.50/M	V5.5MLA0603H
0805	5.5	4.0	40	0.1	7.1	9.3	860	F2216CT-ND	.56	5.20	39.20	F2216TR-ND	2,500	216.00/M	V5.5MLA0805LH
0805	5.5	4.0	40	0.1	7.1	9.3	860	F2217CT-ND	.70	6.50	49.00	F2217TR-ND	2,500	270.00/M	V5.5MLA0805LNH*
0805	5.5	4.0	120	0.3	7.1	9.3	1600	F2215CT-ND	.56	5.20	39.20	F2215TR-ND	2,500	216.00/M	V5.5MLA0805H
1206	5.5	4.0	150	0.4	7.1	9.3	4500	F2218CT-ND	1.19	11.05	83.30	F2218TR-ND	2,500	459.00/M	V5.5MLA1206H
1206	5.5	4.0	150	0.4	7.1	9.3	4500	F2219CT-ND	.88	8.13	61.25	F2219TR-ND	2,500	337.50/M	V5.5MLA1206NH*
0603	9	6.5	30	0.1	11	16	420	F2226CT-ND	.53	4.88	36.75	F2226TR-ND	2,500	202.50/M	V9MLA0603H
0603	9	6.5	30	0.1	11	16	420	F2227CT-ND	.67	6.18	46.55	F2227TR-ND	2,500	256.50/M	V9MLA0603NH
0805	9	6.5	40	0.1	11	14	450	F2228CT-ND	.56	5.20	39.20	F2228TR-ND	2,500	216.00/M	V9MLA0805LH
0805	12	9.0	40	0.1	14	18.5	350	F2171CT-ND	.56	5.20	39.20	F2171TR-ND	2,500	216.00/M	V12MLA0805LH
0603	14	10	30	0.1	15.9	20.3	150	F2173CT-ND	.53	4.88	36.75	F2173TR-ND	2,500	202.50/M	V14MLA0603H
0603	14	10	30	0.1	15.9	20.3	150	F2174CT-ND	.67	6.18	46.55	F2174TR-ND	2,500	256.50/M	V14MLA0603NH*
0805	14	10	40	0.1	15.9	20.3	270	F2176CT-ND	.56	5.20	39.20	F2176TR-ND	2,500	216.00/M	V14MLA0805LH
0805	14	10	40	0.1	15.9	20.3	270	F2177CT-ND	.70	6.50	49.00	F2177TR-ND	2,500	270.00/M	V14MLA0805LNH*
0805	14	10	120	0.3	15.9	20.3	480	F2175CT-ND	.56	5.20	39.20	F2175TR-ND	2,500	216.00/M	V14MLA0805H
1206	14	10	150	0.4	15.9	20.3	1600	F2178CT-ND	1.19	11.05	83.30	F2178TR-ND	2,500	459.00/M	V14MLA1206H
1206	14	10	150	0.4	15.9	20.3	1600	F2179CT-ND	.81	7.48	56.35	F2179TR-ND	2,500	310.50/M	V14MLA1206NH*
0603	18	14	30	0.1	22	28	125	F2181CT-ND	.53	4.88	36.75	F2181TR-ND	2,500	202.50/M	V18MLA0603H
0805	18	14	40	0.1	22	28	250	F2183CT-ND	.56	5.20	39.20	F2183TR-ND	2,500	216.00/M	V18MLA0805LH
0805	18	14	40	0.1	22	28	250	F2184CT-ND	.70	6.50	49.00	F2184TR-ND	2,500	270.00/M	V18MLA0805LNH*
0805	18	14	120	0.3	22	28	450	F2182CT-ND	.56	5.20	39.20	F2182TR-ND	2,500	216.00/M	V18MLA0805H
1206	18	14	150	0.4	22	28	1100	F2185CT-ND	1.19	11.05	83.30	F2185TR-ND	2,500	459.00/M	V18MLA1206H
1210	18	14	500	2.5	22	28	1250	F2186CT-ND	1.72	15.93	120.05	F2186TR-ND	2,000	661.50/M	V18MLA1210H
0603	26	20	30	0.1	31	38	90	F2191CT-ND	.39	3.58	26.95	F2191TR-ND	2,500	148.50/M	V26MLA0603H
0805	26	20	40	0.1	29.5	38.5	115	F2193CT-ND	.56	5.20	39.20	F2193TR-ND	2,500	216.00/M	V26MLA0805LH
0805	26	20	40	0.1	29.5	38.5	115	F2194CT-ND	.70	6.50	49.00	F2194TR-ND	2,500	270.00/M	V26MLA0805LNH*
0805	26	20	100	0.3	29.5	38.5	190	F2192CT-ND	.56	5.20	39.20	F2192TR-ND	2,500	216.00/M	V26MLA0805H
0805	26	20	100	0.3	29.5	38.5	190	F2195CT-ND	.70	6.50	49.00	F2195TR-ND	2,500	270.00/M	V26MLA0805NH*
1206	26	20	150	0.6	29.5	38.5	900	F2196CT-ND	.88	8.13	61.25	F2196TR-ND	2,500	337.50/M	V26MLA1206H
1206	26	20	150	0.6	29.5	38.5	900	F2197CT-ND	.81	7.48	56.35	F2197TR-ND	2,500	310.50/M	V26MLA1206NH*
1210	26	20	300	1.2	29.5	38.5	1000	F2198CT-ND	1.09	10.08	75.95	F2198TR-ND	2,000	418.50/M	V26MLA1210H
0603	30	25	30	0.1	37	46	75	F2199CT-ND	.53	4.88	36.75	F2199TR-ND	2,500	202.50/M	V30MLA0603H
0805	30	25	30	0.1	37	46	80	F2200CT-ND	.56	5.20	39.20	F2200TR-ND	2,500	216.00/M	V30MLA0805LH
1210	30	25	220	0.9	35	43	1530	F2202CT-ND	1.72	15.93	120.05	F2202TR-ND	2,000	661.50/M	V30MLA1210LH
1210	30	25	280	1.2	35	43	1575	F2201CT-ND	1.09	10.08	75.95	F2201TR-ND	2,000	418.50/M	V30MLA1210H
1206	33	26	180	0.8	38	49	550	F2203CT-ND	.88	8.13	61.25	F2203TR-ND	2,500	337.50/M	V33MLA1206H
1206	33	26	180	0.8	38	49	550	F2204CT-ND	1.40	13.00	98.00	F2204TR-ND	2,500	540.00/M	V33MLA1206NH*
1206	42	30	180	0.8	46	60	550	F2209CT-ND	.88	8.13	61.25	F2209TR-ND	2,500	337.50/M	V42MLA1206H
1206	42	30	180	0.8	46	60	550	F2210CT-ND	.81	7.48	56.35	F2210TR-ND	2,500	310.50/M	V42MLA1206NH*
1210	48	40	250	1.2	54.5	66.5	450	F2211CT-ND	1.09	10.08	75.95	F2211TR-ND	2,000	418.50/M	V48MLA1210H
1206	56	40	180	1.0	61	77	150	F2212CT-ND	.84	7.80	58.80	F2212TR-ND	2,500	324.00/M	V56MLA1206H
1210	60	50	250	1.5	67	83	375	F2220CT-ND	1.72	15.93	120.05	F2220TR-ND	2,000	661.50/M	V60MLA1210H
1206	68	50	180	1.0	76	90	150	F2221CT-ND	.84	7.80	58.80	F2221TR-ND	2,500	324.00/M	V68MLA1206H
1206	68	50	180	1.0	76	90	150	F2222CT-ND	1.40	13.00	98.00	F2222TR-ND	2,500	540.00/M	V68MLA1206NH*
1210	85	67	250	2.5	95	115	225	F2223CT-ND	1.09	10.08	75.95	F2223TR-ND	2,000	418.50/M	V85MLA1210H
1210	85	67	250	2.5	95	115	225	F2224CT-ND	1.05	9.75	73.50	F2224TR-ND	2,000	405.00/M	V85MLA1210NH*
1210	120	107	125	2.0	135	165	65	F2170CT-ND	1.09	10.08	75.95	F2170TR-ND	2,000	418.50/M	V120MLA1210H

* Nickel Plated Terminations

Multilayer Varistor TVS Surface Mount ESD Suppressor/ Filter



MLE Series

These components are designed to suppress ESD events, including those specified in IEC61000-4-2 or other Standards used for Electromagnetic Compliance testing.

FEATURES:

- Rated for ESD (IEC 61000-4-2)
- Characterized for Impedance and Capacitance
- Operating Temperature Range: -55°C to +125°C
- Multilayer Ceramic Construction Technology

APPLICATIONS:

- Protection of components and circuits sensitive to ESD Transients occurring on power supplies; control and signal lines.
- Suppression of ESD events such as specified in IEC 61000-4-2 or MIL-STD-883C method 3015-7: for Electromagnetic Compliance (EMC).

Package	Max. Cont. Working Voltage†	Nominal Voltage @1mA DC		Max. ESD Clamp Voltage§		Max. Leakage IL@18V(µA)	Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,500	Littelfuse Part No.
		Min.	Max.	8kV Contact‡	15kV Air‡‡				1	10	100			
0603	18	22	28	75	85	25	100	F2188CT-ND	.54	.51	.38	F2188TR-ND	208.44/M	V18MLE0603H
0805	18	22	28	70	75	25	500	F2189CT-ND	.56	.52	.40	F2189TR-ND	216.00/M	V18MLE0805H
1206	18	22	28	65	65	25	1700	F2190CT-ND	1.19	1.11	.84	F2190TR-ND	459.00/M	V18MLE1206H

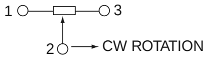
NOTE: † For applications of 18VDC or less. Higher voltages available. § Tested to IEC6100-4-2 Human Body Model (HBM) discharge test circuit. ‡ Direct discharge to device terminals (IEC preferred test method). ‡‡ Corona discharge through air (represents actual ESD event). Capacitance may be customized, contact your Littelfuse Sales Representative.

BC COMPONENTS

Cermet Potentiometers

Model ST-32

Surface Mount, Single-Turn

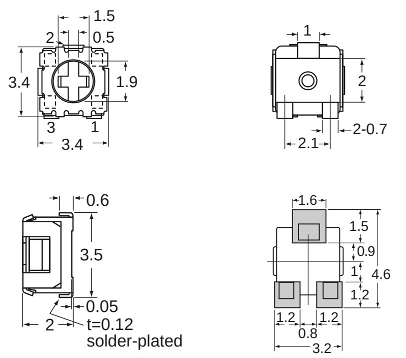


FEATURES: • Top and side adjustment styles • Has a rotor with a cross slot for ease of adjustment • Leaded terminals provide strong as adhesive strength against P.C.B. bending • J-hook, Gull wing and leaded terminal configurations • Compatible with P.C. B. pad outline dimensions for ST-3 series • Sealed/Washable

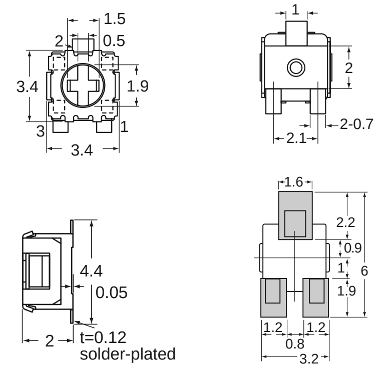
ELECTRICAL: **Resistance Tolerance:** ±20%. **Power Rating:** 0.125W at 70°C, 0W at 125°C. **Input Voltage Maximum:** 200VDC or power rating, whichever is less. **Wiper Current Maximum:** 100mA or power rating, whichever is less. **Effective Electrical Angle:** 210° (1 turn). **End Resistance:** 1% or 2 Ohms, whichever is greater. **Contact Resistance Variation:** 1% or 3 Ohms, whichever is greater. **Operating Temperature Range:** -55°C to +125°C. **Insulation Resistance:** 1000 MΩ minimum at 500VDC. **Dielectric Strength:** 500VAC, 60s.

MECHANICAL: **Mechanical Angle:** 250° (1 turn). **Operating Torque:** 51 gram force-cm maximum. **Stop Strength:** 204 gram force-cm minimum. **Rotational Life:** 100 cycles (▲ R/R ≤ 2 Ω +3%).

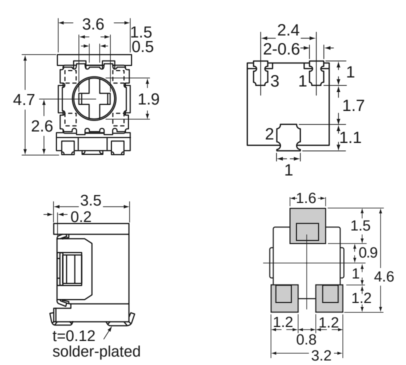
ST-32TA - Top Adjustment, J-Hook



ST-32TB - Top Adjustment, Gull Wing



ST-32TG - Side Adjustment, J-Hook



Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
10	ST32TA100CT-ND	ST32TB100CT-ND	2.21	1.60	ST32TA100TR-ND	ST32TB100TR-ND	551.25
20	ST32TA200CT-ND	ST32TB200CT-ND	2.21	1.60	ST32TA200TR-ND	ST32TB200TR-ND	551.25
50	ST32TA500CT-ND	ST32TB500CT-ND	2.07	1.50	ST32TA500TR-ND	ST32TB500TR-ND	517.50
100	ST32TA101CT-ND	ST32TB101CT-ND	2.07	1.50	ST32TA101TR-ND	ST32TB101TR-ND	517.50
200	ST32TA201CT-ND	ST32TB201CT-ND	2.07	1.50	ST32TA201TR-ND	ST32TB201TR-ND	517.50
300	ST32TA301CT-ND	ST32TB301CT-ND	2.48	1.79	ST32TA301TR-ND	ST32TB301TR-ND	618.75
500	ST32TA501CT-ND	ST32TB501CT-ND	2.07	1.50	ST32TA501TR-ND	ST32TB501TR-ND	517.50
1K	ST32TA102CT-ND	ST32TB102CT-ND	2.07	1.50	ST32TA102TR-ND	ST32TB102TR-ND	517.50
2K	ST32TA202CT-ND	ST32TB202CT-ND	2.07	1.50	ST32TA202TR-ND	ST32TB202TR-ND	517.50
3K	ST32TA302CT-ND	ST32TB302CT-ND	2.48	1.79	ST32TA302TR-ND	ST32TB302TR-ND	618.75
5K	ST32TA502CT-ND	ST32TB502CT-ND	2.07	1.50	ST32TA502TR-ND	ST32TB502TR-ND	517.50
10K	ST32TA103CT-ND	ST32TB103CT-ND	2.07	1.50	ST32TA103TR-ND	ST32TB103TR-ND	517.50
20K	ST32TA203CT-ND	ST32TB203CT-ND	2.07	1.50	ST32TA203TR-ND	ST32TB203TR-ND	517.50
30K	ST32TA303CT-ND	ST32TB303CT-ND	2.48	1.79	ST32TA303TR-ND	ST32TB303TR-ND	618.75
50K	ST32TA503CT-ND	ST32TB503CT-ND	2.07	1.50	ST32TA503TR-ND	ST32TB503TR-ND	517.50
100K	ST32TA104CT-ND	ST32TB104CT-ND	2.07	1.50	ST32TA104TR-ND	ST32TB104TR-ND	517.50
200K	ST32TA204CT-ND	ST32TB204CT-ND	2.07	1.50	ST32TA204TR-ND	ST32TB204TR-ND	517.50
500K	ST32TA504CT-ND	ST32TB504CT-ND	2.07	1.50	ST32TA504TR-ND	ST32TB504TR-ND	517.50
1M	ST32TA105CT-ND	ST32TB105CT-ND	2.07	1.50	ST32TA105TR-ND	ST32TB105TR-ND	517.50

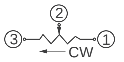
Res. (Ohms)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	T&R Pricing* 500
10	ST32TG100CT-ND	2.66	1.92	ST32TG100TR-ND	663.75
20	ST32TG200CT-ND	2.66	1.92	ST32TG200TR-ND	663.75
50	ST32TG500CT-ND	2.48	1.79	ST32TG500TR-ND	618.75
100	ST32TG101CT-ND	2.48	1.79	ST32TG101TR-ND	618.75
200	ST32TG201CT-ND	2.48	1.79	ST32TG201TR-ND	618.75
300	ST32TG301CT-ND	2.70	1.95	ST32TG301TR-ND	675.00
500	ST32TG501CT-ND	2.48	1.79	ST32TG501TR-ND	618.75
1K	ST32TG102CT-ND	2.48	1.79	ST32TG102TR-ND	618.75
2K	ST32TG202CT-ND	2.48	1.79	ST32TG202TR-ND	618.75
3K	ST32TG302CT-ND	2.70	1.95	ST32TG302TR-ND	675.00
5K	ST32TG502CT-ND	2.48	1.79	ST32TG502TR-ND	618.75
10K	ST32TG103CT-ND	2.48	1.79	ST32TG103TR-ND	618.75
20K	ST32TG203CT-ND	2.48	1.79	ST32TG203TR-ND	618.75
30K	ST32TG303CT-ND	2.70	1.95	ST32TG303TR-ND	675.00
50K	ST32TG503CT-ND	2.48	1.79	ST32TG503TR-ND	618.75
100K	ST32TG104CT-ND	2.48	1.79	ST32TG104TR-ND	618.75
200K	ST32TG204CT-ND	2.48	1.79	ST32TG204TR-ND	618.75
500K	ST32TG504CT-ND	2.48	1.79	ST32TG504TR-ND	618.75
1M	ST32TG105CT-ND	2.48	1.79	ST32TG105TR-ND	618.75

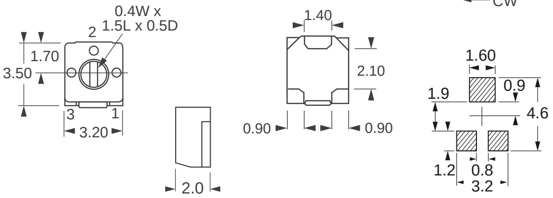
*T&R Denotes Tape & Reel Pricing.

Model ST3

Surface Mount, 3mm Squared Single-Turn

ST3A - Top Adjust





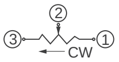
FEATURES: • Sealed to Allow for Automatic Processing • Precious Metal Alloy Contact • Chip Style Design for Compact Size. ***ELECTRICAL:*** **Resistance Tolerance:** ±20% Standard. **Temp. Coeff. of Resistance:** 10 Ohms to 50 Ohms ± 250 ppm/°C, 100 Ohms to 1 Meg. Ohm ± 100 ppm/°C. **Power Rating:** 0.125W at 70°C. **Operating Voltage Max.:** 200VDC or Power Rating, whichever is less. **Wiper Current Max.:** 100mA or Power Rating, whichever is less. **Nom. Electrical Angle:** 210°. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2 Ohms, whichever is greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3 Ohms, whichever is greater. **Oper. Temperature Range:** -55°C to +125°C. **Min. Insulation Resistance:** 1000 Meg. at 500VDC. **Dielectric Strength:** 500VAC rms, 1 min., 1 milliamp max. ***MECHANICAL:*** **Nom. Mechanical Angle:** 240°. **Operating Torque:** 50 gram-cm max. (.69 Oz. in.). **Min. Stop Strength:** 200 gram-cm min (2.8 Oz. in.). **Rotational Life:** 100 cycles (▲ R/R ≤ 2 Ω +3%).

Res. (Ohms)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing* 1,000
1K	ST3A102CT-ND	1.56	1.44	1.35	ST3A102TR-ND	843.00
2K	ST3A202CT-ND	1.56	1.44	1.35	ST3A202TR-ND	843.00
5K	ST3A502CT-ND	1.56	1.44	1.35	ST3A502TR-ND	843.00
10K	ST3A103CT-ND	1.56	1.44	1.35	ST3A103TR-ND	843.00
20K	ST3A203CT-ND	1.56	1.44	1.35	ST3A203TR-ND	843.00
50K	ST3A503CT-ND	1.56	1.44	1.35	ST3A503TR-ND	843.00
100K	ST3A104CT-ND	1.56	1.44	1.35	ST3A104TR-ND	843.00

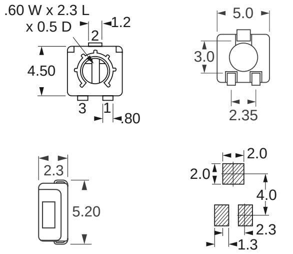
Units Marked with Resistance Mark and 1 Digit Date Code. *T&R Denotes Tape & Reel Pricing.

Model ST4

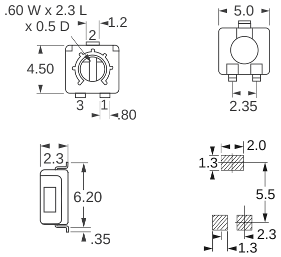
Surface Mount, 4mm Squared Single-Turn



ST4A - J Lead, Top Adjust



ST4B - Gull Wing, Top Adjust



FEATURES: • Sealed to Allow for Automatic Processing • Vertical and Horizontal Adjustment Styles • Precious Metal Alloy Contact • Gull Wing, J Lead and Thru Hole Pin Styles. ***ELECTRICAL:*** **Resistance Tolerance:** ±20% Standard. **Temp. Coeff. of Resistance:** 100 Ohms to 2 Meg. ± 100 ppm, other ±250 ppm. **Power Rating:** 1/4W at 70°C. **Operating Voltage Max.:** 200VDC or Power Rating, whichever is less. **Wiper Current Max.:** 100mA or Power Rating, whichever is Less. **Nom. Electrical Angle:** 210°. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2 Ohms, whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3 Ohms, whichever is Greater. **Oper. Temp. Range:** -55°C to +125°C. **Min. Insulation Resistance:** 1000 Meg. at 500VDC for 2 minutes. **Dielectric Strength:** 500VAC rms, 1 min., 1 milliamp max. ***MECHANICAL:*** **Nom. Mechanical Angle:** 240°. **Operating Torque:** 100 gram-cm max. (1.39 Oz. in.). **Min. Stop Strength:** 300 gram-cm min (4.17 Oz. in.). **Rotational Life:** 100 cycles (▲ R/R ≤ 2 Ω +3%).

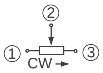
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
1K	ST4A102CT-ND	ST4B102CT-ND	1.46	1.35	1.26	ST4A102TR-ND	ST4B102TR-ND	486.50
2K	ST4A202CT-ND	ST4B202CT-ND	1.46	1.35	1.26	ST4A202TR-ND	ST4B202TR-ND	486.50
5K	ST4A502CT-ND	ST4B502CT-ND	1.46	1.35	1.26	ST4A502TR-ND	ST4B502TR-ND	486.50
10K	ST4A103CT-ND	ST4B103CT-ND	1.46	1.35	1.26	ST4A103TR-ND	ST4B103TR-ND	486.50
20K	ST4A203CT-ND	ST4B203CT-ND	1.46	1.35	1.26	ST4A203TR-ND	ST4B203TR-ND	486.50
50K	ST4A503CT-ND	ST4B503CT-ND	1.46	1.35	1.26	ST4A503TR-ND	ST4B503TR-ND	486.50
100K	ST4A104CT-ND	ST4B104CT-ND	1.46	1.35	1.26	ST4A104TR-ND	ST4B104TR-ND	486.50

Units Marked with Resistance Mark and 1 Digit Date Code. *T&R Denotes Tape & Reel Pricing.

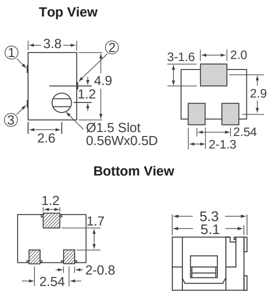
(Continued)

Cermet Potentiometers *(Cont.)*

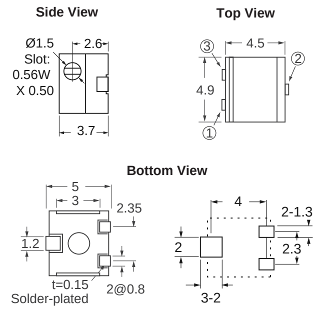
Model SM4 *Surface Mount 4mm, 12-Turn, Sealed*



SM4W - J Lead, Top Adjust



SM4A - Side Adjust



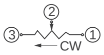
FEATURES: • Sealed to Allow for Automatic Processing • Stable Cermet Element • Precious Metal Contact. ***ELECTRICAL:*** **Resistance Range:** 10Ω – 2MΩ. **Resistance Tolerance:** ±10%. **Max. Temp. Coefficient:** ± 100 ppm/°C. **Power Rating:** 0.25 W at 85°C, 0 W at 150°C. **Max. Input Voltage:** 300VDC or Power Rating, whichever is less. **Max. Wiper Current:** 100mA or Power Rating, whichever is less. **Max. End Resistance:** 1% or 2Ω, whichever is greater. **Contact Resistance Variation:** 1% or 3Ω, whichever is greater. **Operating Temp. Range:** -65°C to +150°C. **Min. Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute. ***MECHANICAL:*** **Mechanical Turn:** 12 Turns. **Operating Torque:** 20-300 g.cm. **Min. Stop Strength:** Clutch Action. **Rotational Life:** 200 cycles, ±3Ω +3%.

Res. (Ohms)	Digi-Key Part No.	Price Each 1	10	100	500
100	SM4W101-ND	3.75	3.25	2.94	2.50
200	SM4W201-ND	3.75	3.25	2.94	2.50
500	SM4W501-ND	3.75	3.25	2.94	2.50
1K	SM4W102-ND	3.75	3.25	2.94	2.50
2K	SM4W202-ND	3.75	3.25	2.94	2.50
5K	SM4W502-ND	3.75	3.25	2.94	2.50
10K	SM4W103-ND	3.75	3.25	2.94	2.50
20K	SM4W203-ND	3.75	3.25	2.94	2.50
50K	SM4W503-ND	3.75	3.25	2.94	2.50
100K	SM4W104-ND	3.75	3.25	2.94	2.50
10	SM4A100-ND	3.75	3.25	2.94	2.50
20	SM4A200-ND	3.75	3.25	2.94	2.50
50	SM4A500-ND	3.75	3.25	2.94	2.50

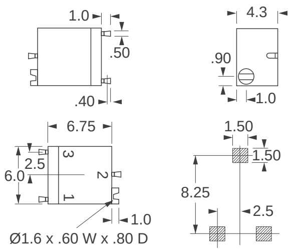
Res. (Ohms)	Digi-Key Part No.	Price Each 1	10	100	500
100	SM4A101-ND	3.75	3.25	2.94	2.50
200	SM4A201-ND	3.75	3.25	2.94	2.50
500	SM4A501-ND	3.75	3.25	2.94	2.50
1K	SM4A102-ND	3.75	3.25	2.94	2.50
2K	SM4A202-ND	3.75	3.25	2.94	2.50
5K	SM4A502-ND	3.75	3.25	2.94	2.50
10K	SM4A103-ND	3.75	3.25	2.94	2.50
20K	SM4A203-ND	3.75	3.25	2.94	2.50
50K	SM4A503-ND	3.75	3.25	2.94	2.50
100K	SM4A104-ND	3.75	3.25	2.94	2.50
500K	SM4A504-ND	3.75	3.25	2.94	2.50
1 Meg.	SM4A105-ND	3.75	3.25	2.94	2.50

Units Marked with Resistance Code and 2-Digit Date Code.

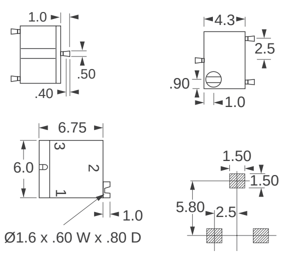
Model ST5 *Surface Mount, 6mm Squared Multi-Turn*



ST5P - Gull Wing, Side Adjust



ST5W - Gull Wing, Top Adjust

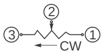


FEATURES: • Sealed to Allow for Automatic Processing • Vertical and Horizontal Mount • Precious Metal Alloy Contact. ***ELECTRICAL:*** **Resistance Tolerance:** ±10% Standard. **Temp. Coeff. of Resistance:** 100 Ohms to 2 Meg. ± 100 ppm/°C, others ±250 ppm/°C. **Power Rating:** 1/4W at 85°C. **Operating Voltage Max.:** 200VDC or Power Rating, whichever is less. **Wiper Current Max.:** 100mA or Power Rating, whichever is less. **Nom. Electrical Angle:** 11 Turns. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2 Ohms, whichever is greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3 Ohms, whichever is greater. **Oper. Temp. Range:** -55°C to +125°C. **Min. Insulation Resistance:** 1000 Meg. at 500VDC for 2 minutes. **Dielectric Strength:** 600VAC rms, 1 min., 1 milliamp max. ***MECHANICAL:*** **Nom. Mechanical Angle:** 14 Turns. **Operating Torque:** 200 gram-cm max. (2.78 Oz. in.). **Min. Stop Strength:** N/A, Wiper Idles. **Rotational Life:** 200 cycles, 10Ω to 200 (▲ R/R ≤ 0.5 Ω +3%), 500Ω to 2MΩ (▲ R/R ≤ 0.5 Ω +2%).

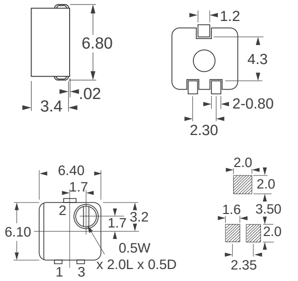
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
1K	ST5P102CT-ND	ST5W102CT-ND	3.51	3.18	2.70	ST5P102TR-ND	ST5W102TR-ND	1200.50
2K	ST5P202CT-ND	ST5W202CT-ND	3.51	3.18	2.70	ST5P202TR-ND	ST5W202TR-ND	1200.50
5K	ST5P502CT-ND	ST5W502CT-ND	3.51	3.18	2.70	ST5P502TR-ND	ST5W502TR-ND	1200.50
10K	ST5P103CT-ND	ST5W103CT-ND	3.51	3.18	2.70	ST5P103TR-ND	ST5W103TR-ND	1200.50
20K	ST5P203CT-ND	ST5W203CT-ND	3.51	3.18	2.70	ST5P203TR-ND	ST5W203TR-ND	1200.50
50K	ST5P503CT-ND	ST5W503CT-ND	3.51	3.18	2.70	ST5P503TR-ND	ST5W503TR-ND	1200.50
100K	ST5P104CT-ND	ST5W104CT-ND	3.51	3.18	2.70	ST5P104TR-ND	ST5W104TR-ND	1200.50

Units Marked with Resistance Mark and 1 Digit Date Code. *T&R Denotes Tape & Reel Pricing.

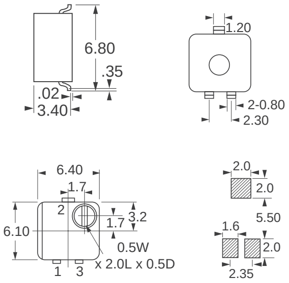
Model ST7 *Low Profile, Surface Mount, 7mm Squared Multi-Turn*



ST7A - J Lead, Top Adjust



ST7B - Gull Wing, Top Adjust

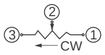


FEATURES: • Sealed to Allow for Auto. Processing • Precious Metal Alloy Contact. ***ELECTRICAL:*** **Resistance Tolerance:** ±20% Standard. **Temp. Coeff. of Resistance:** 100 Ohms to 1 Meg. ± 100 ppm/°C, 50Ω ±250 ppm/°C. **Power Rating:** 1/4W at 70°C. **Operating Volt. Max.:** 200VDC or Power Rating, Whichever is less. **Wiper Current Max.:** 100mA or Power Rating, Whichever is Less. **Nom. Electrical Angle:** 2.5 Turns. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 3 Ohms, Whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3 Ohms, Whichever is Greater. **Oper. Temp. Range:** -55°C to +125°C. **Min. Insulation Resistance:** 1000 Meg. at 500VDC for 2 minutes. **Dielectric Strength:** 500VAC rms, 1 min., 1 milliamp max. ***MECHANICAL:*** **Nom. Mechanical Angle:** 3 Turns. **Operating Torque:** 50 gram-cm max. (0.70 Oz. in.). **Min. Stop Strength:** N/A, Wiper Idles. **Rotational Life:** 100 cycles (▲ R/R ≤ 2.0 Ω +3%).

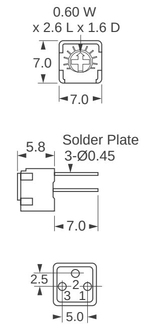
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
1K	ST7A102CT-ND	ST7B102CT-ND	5.33	4.82	4.10	ST7A102TR-ND	ST7B102TR-ND	1710.00
2K	ST7A202CT-ND	ST7B202CT-ND	5.33	4.82	4.10	ST7A202TR-ND	ST7B202TR-ND	1710.00
5K	ST7A502CT-ND	ST7B502CT-ND	5.33	4.82	4.10	ST7A502TR-ND	ST7B502TR-ND	1710.00
10K	ST7A103CT-ND	ST7B103CT-ND	5.33	4.82	4.10	ST7A103TR-ND	ST7B103TR-ND	1710.00
20K	ST7A203CT-ND	ST7B203CT-ND	5.33	4.82	4.10	ST7A203TR-ND	ST7B203TR-ND	1710.00
50K	ST7A503CT-ND	ST7B503CT-ND	5.33	4.82	4.10	ST7A503TR-ND	ST7B503TR-ND	1710.00
100K	ST7A104CT-ND	ST7B104CT-ND	5.33	4.82	4.10	ST7A104TR-ND	ST7B104TR-ND	1710.00

Units Marked with Resistance Mark and 1 Digit Date Code. *T&R Denotes Tape & Reel Pricing.

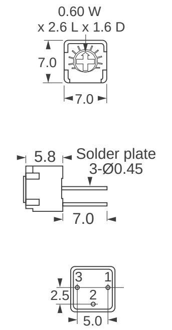
Model CT6 *6mm Squared Single Turn*



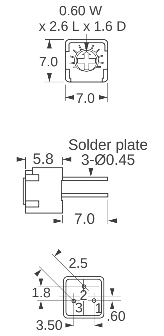
CT6P - Top Adjust



CT6R - Top Adjust

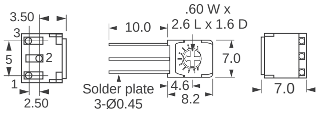


CT6W - Top Adjust



FEATURES: • Sealed to Allow for Automatic Processing • Precious Metal Alloy Contact • Highly Automated Assembly. ***ELECTRICAL:*** **Resistance Tolerance:** ±10% Standard. **Temp. Coeff. of Resistance:** 50 Ohms to 2 Meg. ± 100 ppm/°C, others ±250 ppm/°C. **Power Rating:** 1/2W at 70°C. **Operating Voltage Max.:** 200VDC or Power Rating, Whichever is less. **Wiper Current Max.:** 100mA or Power Rating, Whichever is Less. **Nom. Electrical Angle:** 220°. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2 Ohms, Whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3 Ohms, Whichever is Greater. **Oper. Temp. Range:** -55°C to +125°C. **Min. Insulation Resistance:** 1000 Meg. at 500VDC for 2 minutes. **Dielectric Strength:** 900VAC rms, 1 min., 1 milliamp max. ***MECHANICAL:*** **Nom. Mechanical Angle:** 260°. **Operating Torque:** 20-200 gram-cm max. (0.27-2.78 Oz. in.). **Min. Stop Strength:** 500 gram-cm min. (6.94 Oz.-in.). **Rotational Life:** 200 cycles (▲ R/R ≤ 2 Ω +3%) **Solderability:** Mil-Std-202 Method 208. **Min. Terminal Strength:** 1 Kg.

CT6X - Side Adjust



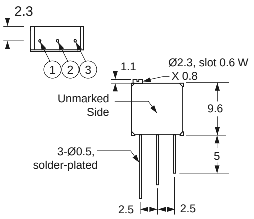
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	CT6P102-ND	CT6R102-ND	CT6W102-ND	CT6X102-ND	.84	.73	.66	.56	.49
2K	CT6P202-ND	CT6R202-ND	CT6W202-ND	CT6X202-ND	.84	.73	.66	.56	.49
5K	CT6P502-ND	CT6R502-ND	CT6W502-ND	CT6X502-ND	.84	.73	.66	.56	.49
10K	CT6P103-ND	CT6R103-ND	CT6W103-ND	CT6X103-ND	.84	.73	.66	.56	.49
20K	CT6P203-ND	CT6R203-ND	CT6W203-ND	CT6X203-ND	.84	.73	.66	.56	.49
50K	CT6P503-ND	CT6R503-ND	CT6W503-ND	CT6X503-ND	.84	.73	.66	.56	.49
100K	CT6P104-ND	CT6R104-ND	CT6W104-ND	CT6X104-ND	.84	.73	.66	.56	.49

Units Marked with Resistance Mark and 1 Digit Date Code.

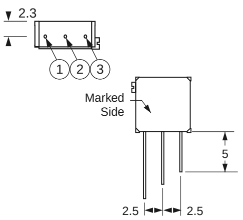
(Continued)

Model CT94 *9mm Squared Multi-Turn*

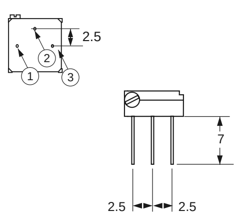
CT94W - Top Adjust



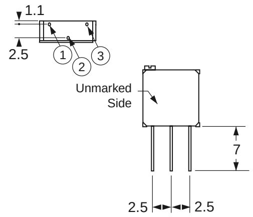
CT94X - Side Adjust



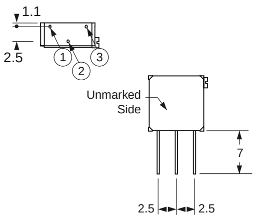
CT94P - Side Adjust

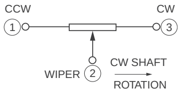


CT94Y - Top Adjust



CT94Z- Side Adjust





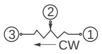
ELECTRICAL: **Resistance Tol.:** ±10%. **Temp. Coeff. of Resistance:** 50 Ohms to 2 Meg. ± 100 ppm/°C, others ±250 ppm/°C. **Power Rating:** 1/2W at 70°C, 0W at 125°C. **Operating Voltage Max.:** 300VDC or Power Rating, Whichever is less. **Wiper Current Max.:** 100mA or Power Rating, Whichever is Less. **End Resistance Max.:** 1% or 2 Ohms, Whichever is Greater. **Contact Resistance Variation:** 1% or 3 Ohms, Whichever is Greater. **Oper. Temp. Range:** -55°C to +125°C. **Min. Insulation Resistance:** 1000 Meg Ohms. at 500VDC. **Dielectric Strength:** 900VAC rms, 1 min. **Number of Mechanical Turns:** 18 turns. ***MECHANICAL:*** **Operating Torque:** 357 gram-cm max. **Mechanical Stop:** Clutch Action. **Minimum Terminal Strength:** 1.02Kg. **Rotational Life:** 200 cycles (▲ R/R ± 2 Ω +3%)

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
10	CT94W100-ND	CT94X100-ND	1.43	1.33	1.20	1.02
20	CT94W200-ND	CT94X200-ND	1.43	1.33	1.20	1.02
50	CT94W500-ND	CT94X500-ND	1.43	1.33	1.20	1.02
100	CT94W101-ND	CT94X101-ND	1.43	1.33	1.20	1.02
200	CT94W201-ND	CT94X201-ND	1.43	1.33	1.20	1.02
500	CT94W501-ND	CT94X501-ND	1.43	1.33	1.20	1.02
1K	CT94W102-ND	CT94X102-ND	1.43	1.33	1.20	1.02
2K	CT94W202-ND	CT94X202-ND	1.43	1.33	1.20	1.02
5K	CT94W502-ND	CT94X502-ND	1.43	1.33	1.20	1.02
10K	CT94W103-ND	CT94X103-ND	1.43	1.33	1.20	1.02
20K	CT94W203-ND	CT94X203-ND	1.43	1.33	1.20	1.02
50K	CT94W503-ND	CT94X503-ND	1.43	1.33	1.20	1.02
100K	CT94W104-ND	CT94X104-ND	1.43	1.33	1.20	1.02
200K	CT94W204-ND	CT94X204-ND	1.43	1.33	1.20	1.02
500K	CT94W504-ND	CT94X504-ND	1.43	1.33	1.20	1.02
1 Meg	CT94W105-ND	CT94X105-ND	1.43	1.33	1.20	1.02
2 Meg	CT94W205-ND	CT94X205-ND	1.43	1.33	1.20	1.02

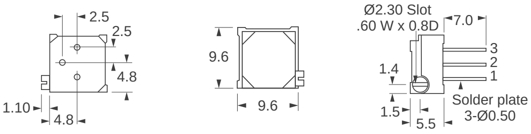
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
10	CT94P100-ND	CT94Y100-ND	CT94Z100-ND	1.57	1.46	1.32	1.12
20	CT94P200-ND	CT94Y200-ND	CT94Z200-ND	1.57	1.46	1.32	1.12
50	CT94P500-ND	CT94Y500-ND	CT94Z500-ND	1.57	1.46	1.32	1.12
100	CT94P101-ND	CT94Y101-ND	CT94Z101-ND	1.57	1.46	1.32	1.12
200	CT94P201-ND	CT94Y201-ND	CT94Z201-ND	1.57	1.46	1.32	1.12
500	CT94P501-ND	CT94Y501-ND	CT94Z501-ND	1.57	1.46	1.32	1.12
1K	CT94P102-ND	CT94Y102-ND	CT94Z102-ND	1.57	1.46	1.32	1.12
2K	CT94P202-ND	CT94Y202-ND	CT94Z202-ND	1.57	1.46	1.32	1.12
5K	CT94P502-ND	CT94Y502-ND	CT94Z502-ND	1.57	1.46	1.32	1.12
10K	CT94P103-ND	CT94Y103-ND	CT94Z103-ND	1.57	1.46	1.32	1.12
20K	CT94P203-ND	CT94Y203-ND	CT94Z203-ND	1.57	1.46	1.32	1.12
50K	CT94P503-ND	CT94Y503-ND	CT94Z503-ND	1.57	1.46	1.32	1.12
100K	CT94P104-ND	CT94Y104-ND	CT94Z104-ND	1.57	1.46	1.32	1.12
200K	CT94P204-ND	CT94Y204-ND	CT94Z204-ND	1.57	1.46	1.32	1.12
500K	CT94P504-ND	CT94Y504-ND	CT94Z504-ND	1.57	1.46	1.32	1.12
1 Meg	CT94P105-ND	CT94Y105-ND	CT94Z105-ND	1.57	1.46	1.32	1.12
2 Meg	CT94P205-ND	CT94Y205-ND	CT94Z205-ND	1.57	1.46	1.32	1.12

Units Marked with Resistance Code and 1 Digit Date Code.

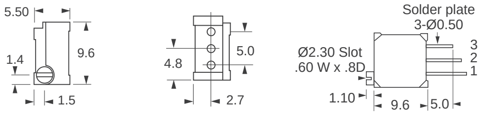
Model CT9P *9mm Squared Multi-Turn*



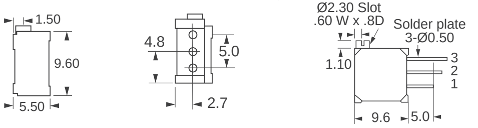
CT9P — Side Adjust



CT9W — Top Adjust



CT9X, Side Adjust



FEATURES:
- Sealed to Withstand Board Washing
- Precious Metal Contact
- Highly Automated Assembly.

ELECTRICAL:
Resistance Tolerance: ±10% Standard. **Temperature Coefficient of Resistance:**. 50 Ohms to 2 Meg. ± 100 ppm/°C, others ±250 ppm/°C. **Power Rating:** 1/2W at 70°C. **Operating Voltage Maximum:** 300VDC or Power Rating, Whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, Whichever is Less. **Nominal Electrical Angle:** 16 Turns. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2 Ohms, Whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3 Ohms, Whichever is Greater. **Operating Temperature Range:** -55°C to +125°C. **Minimum Insulation Resistance:** 1000 Meg. at 500VDC for 2 minutes. **Dielectric Strength:** 900VAC rms, 1 min., 1 milliamp max.

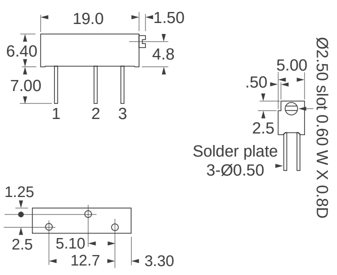
MECHANICAL:
Nominal Mechanical Angle: 18 Turns. **Operating Torque:** 360 gram-cm max. (5 Oz.-in.). **Min. Stop Strength:** N/A, Wiper Idles. **Rotational Life:** 200 cycles, 10 Ω - 200 Ω, ▲ R/R ≤ ± (0.5 Ω + 3%), 500 Ω - 5M Ω ▲ R/R ≤ ± (0.5 Ω + 2%). **Solderability:** Mil-Std-202 Method 208. **Minimum Terminal Strength:** 1 Kg.

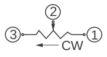
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	CT9P102-ND	CT9W102-ND	CT9X102-ND	1.65	1.56	1.32	1.23	1.07
2K	CT9P202-ND	CT9W202-ND	CT9X202-ND	1.65	1.56	1.32	1.23	1.07
5K	CT9P502-ND	CT9W502-ND	CT9X502-ND	1.65	1.56	1.32	1.23	1.07
10K	CT9P103-ND	CT9W103-ND	CT9X103-ND	1.65	1.56	1.32	1.23	1.07
20K	CT9P203-ND	CT9W203-ND	CT9X203-ND	1.65	1.56	1.32	1.23	1.07
50K	CT9P503-ND	CT9W503-ND	CT9X503-ND	1.65	1.56	1.32	1.23	1.07
100K	CT9P104-ND	CT9W104-ND	CT9X104-ND	1.65	1.56	1.32	1.23	1.07

Units Marked with Resistance Mark and 1 Digit Date Code.

Model CT20 *20mm Rectangular Multi-Turn*

CT20P — Side Adjust





FEATURES: • Sealed to Allow for Automatic Processing • Precious Metal Alloy Contact • Highly Automated Assembly.

ELECTRICAL: **Resistance Tolerance:** ±10% Standard. **Temperature Coefficient of Resistance:** 50 Ohms to 2 Meg. ± 100 ppm/°C, others ± 250 ppm/°C. **Power Rating:** 3/4W at 70°C. **Operating Voltage Maximum:** 300VDC or Power Rating, Whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, Whichever is Less. **Nominal Electrical Angle:** 12 Turns. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2 Ohms, Whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3 Ohms, Whichever is Greater. **Operating Temperature Range:** -55°C to +125°C. **Minimum Insulation Resistance:** 1000 Meg. at 500VDC for 2 min. **Dielectric Strength:** 600VAC rms, 1 min., 1 milliamp max.

MECHANICAL: **Nominal Mechanical Angle:** 15 Turns. **Operating Torque:** 360 gram-cm max. (5 Oz.-in.). **Minimum Stop Strength:** N/A, Wiper Idles. **Rotational Life:** 200 cycles, 10Ω-200Ω ▲ R/R ≤ ± (0.5 Ω + 3%), 500 Ω - 5M Ω ▲ R/R ≤ ± (0.5 Ω + 2%) **Solderability:** Mil-Std-202 Method 208.

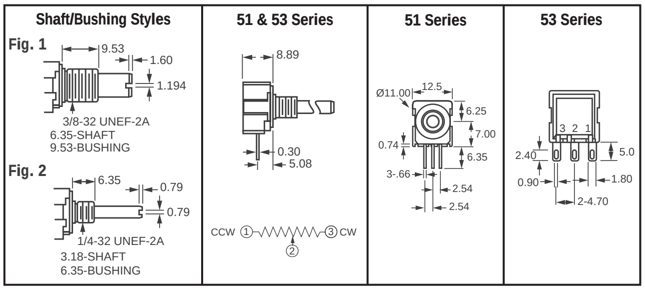
Res. (Ohms)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	CT20P102-ND	1.65	1.54	1.39	1.18	1.07
2K	CT20P202-ND	1.65	1.54	1.39	1.18	1.07
5K	CT20P502-ND	1.65	1.54	1.39	1.18	1.07
10K	CT20P103-ND	1.65	1.54	1.39	1.18	1.07
20K	CT20P203-ND	1.65	1.54	1.39	1.18	1.07
50K	CT20P503-ND	1.65	1.54	1.39	1.18	1.07
100K	CT20P104-ND	1.65	1.54	1.39	1.18	1.07

Units Marked with Resistance Mark and 1 Digit Date Code.

Precision Potentiometers

SERIES 50 Sealed 1/2" (12.5mm) Square Control

• **Effective Electrical Angle:** 270° ±5° • **Contact Resistance Variation:** 2.0% • **Dielectric Withstanding Voltage:** Sea Level: 1,500 VAC minimum; 70,000 Feet: 500 VAC minimum • **Insulation Resistance:** 1,000 megohms minimum

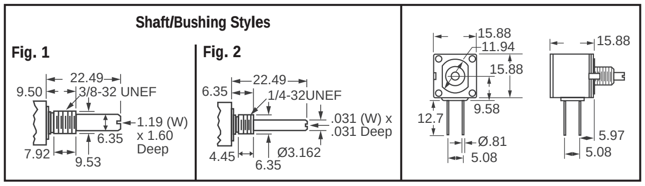


Bush. Fig.	Taper	Resis. Tolerance	Ohms	Watts	Element Material	Digi-Key Part No.	Price Each 1	25	50	100
2	Linear	±10%	1K	1	Cermet	51CAD-E28-A10-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	5K	1	Cermet	51CAD-E28-A13-ND	7.39	5.75	4.70	3.98
1	Audio	±20%	10K	1/4	Conductive Plastic	51AAD-B28-D15-ND	7.97	6.21	5.07	4.29
2	Audio	±20%	10K	1/4	Conductive Plastic	51CAD-E28-D15-ND	7.97	6.21	5.07	4.29
2	Linear	±20%	10K	1/2	Conductive Plastic	51CAD-E24-B15-ND	7.39	5.75	4.70	3.98
1	Linear	±10%	10K	1	Cermet	51AAD-B24-A15-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	10K	1	Cermet	51CAD-E24-A15-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	100K	1	Cermet	51CAD-E28-A20-ND	7.39	5.75	4.70	3.98
1	Linear	±20%	10K	1/2	Conductive Plastic	53AAA-B28-B15-ND	8.51	6.63	5.41	4.58

SERIES 81

2 Watt Cermet - 5/8" (15.88mm) Square Single - Turn

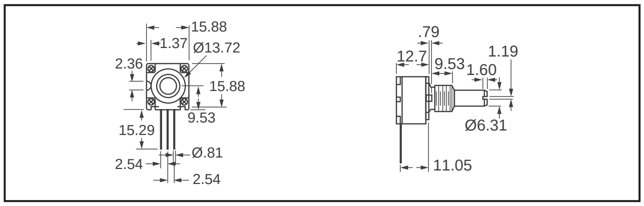
• **Resistance Tolerance:** ±10% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 240° ±6° • **Contact Resistance Variation:** ±1% or 3 ohms (whichever is greater) • **Theoretical Resolution:** Essentially Infinite • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1500 VAC minimum; 70,000 Feet: 500 VAC minimum) • **Insulation Resistance (500 VDC):** 1,000 megohms minimum



Bushing Fig.	Ohms	Digi-Key Part No.	Price Each 1	25	50	100
1	1K	81A1A-B28-A10-ND	9.02	7.02	5.74	4.85
1	5K	81A1A-B28-A13-ND	9.02	7.02	5.74	4.85
2	5K	81C1A-E28-A13-ND	9.02	7.02	5.74	4.85
1	10K	81A1A-B28-A15-ND	9.02	7.02	5.74	4.85
2	10K	81C1A-E28-A15-ND	9.02	7.02	5.74	4.85
2	100K	81C1A-E28-A20-ND	9.02	7.02	5.74	4.85

SERIES 91 5/8" Square Single-Turn Conductive Plastic - Bushing Mount

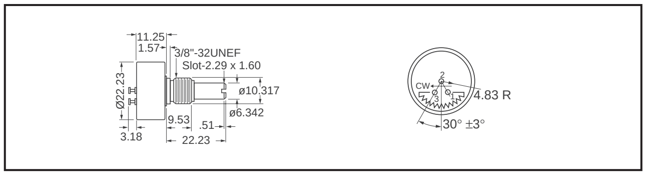
• **Resistance Tolerance:** ±20% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 240° ±5° • **Contact Resistance Variation:** ±1% • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,500 VAC minimum; 70,000 Feet: 500 VAC minimum) • **Insulation Resistance (500 VDC):** 1,000 megohms minimum • **Theoretical Resolution:** Essentially infinite



Taper	Ohms	Watts	Shaft Length From Mtg. Surface Inches (mm)	Digi-Key Part No.	Price Each 1	25	50	100
Linear	1K	1/2	7/8" (22.23)	91A1A-B28-B10-ND	4.74	3.69	3.01	2.55
Linear	5K	1/2	3/4" (19.05)	91A1A-B24-B13-ND	4.74	3.69	3.01	2.55
Linear	5K	1/2	7/8" (22.23)	91A1A-B28-B13-ND	4.74	3.69	3.01	2.55
Audio	10K	1/4	3/4" (19.05)	91A1A-B24-D15-ND	5.37	4.18	3.42	2.89
Linear	10K	1/2	3/4" (19.05)	91A1A-B24-B15-ND	4.74	3.69	3.01	2.55
Linear	10K	1/2	7/8" (22.23)	91A1A-B28-B15-ND	4.74	3.69	3.01	2.55

SERIES 6639 1 Watt Conductive Plastic - Bushing Mount

• **Resistance Tolerance:** Standard ±15% • **Resolution:** Essentially infinite • **Effective Electrical Angle:** 340° +3° • **End Voltage:** 0.5% max. • **Output Smoothness:** 0.1% • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 750 VAC min.) • **Insulation Resistance (500 VDC):** 500 megohms min.

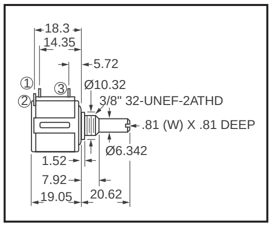


Ohms	Digi-Key Part No.	Price Each 1	50	100	500
1K	6639S-1-102-ND	11.46	9.29	8.48	8.30
5K	6639S-1-502-ND	11.46	9.29	8.48	8.30
10K	6639S-1-103-ND	11.46	9.29	8.48	8.30

SERIES 3540/3541

2 Watt -10 Turn Wirewound/Hybritron®

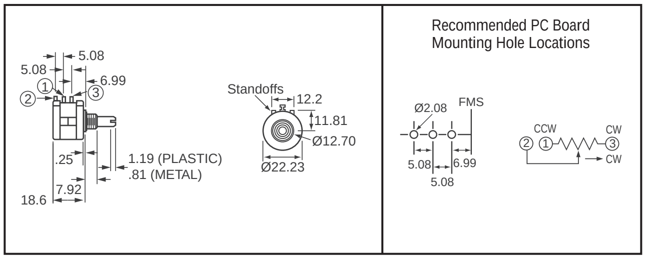
- **Resistance Tolerance:** ±5% for 3540 series ±10% for 3541 series
- **Effective Electrical Angle:** 3600° +10°, -0°
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,000 VAC minimum)
- **Insulation Resistance (500 VDC):** 1,000 megohms minimum



Ohms	Reso-lution %	Digi-Key Part No.	Price Each 1	50	100	500
		Wirewound				
500	.031	3540S-1-501-ND	13.38	10.84	9.90	9.37
1K	.027	3540S-1-102-ND	13.38	10.84	9.90	9.37
2K	.021	3540S-1-202-ND	13.38	10.84	9.90	9.37
5K	.021	3540S-1-502-ND	13.38	10.84	9.90	9.37
10K	.019	3540S-1-103-ND	13.38	10.84	9.90	9.37
20K	.014	3540S-1-203-ND	13.38	10.84	9.90	9.37
50K	.011	3540S-1-503-ND	14.88	12.05	11.01	10.42
100K	.008	3540S-1-104-ND	16.72	13.54	12.37	11.70
		Hybritron				
1K	Essen-tially Infinite	3541H-1-102-ND	28.28	22.91	20.93	19.80
5K		3541H-1-502-ND	28.28	22.91	20.93	19.80
10K		3541H-1-103-ND	28.28	22.91	20.93	19.80

SERIES 3590 2 Watt - 10 Turn Wirewound

• **Resistance Tolerance:** ±5% • **Effective Electrical Angle:** 3600° +10°, -0° • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 2,000 VAC minimum) • **Insulation Resistance (500 VDC):** 1,000 megohms minimum



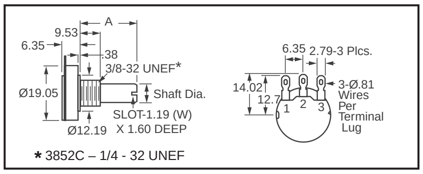
Ohms	Resolu-tion%	Bushing Type & Dim.	Shaft Diameter Inches (mm)	Digi-Key Part No.	Price Each 1	50	100	500
2K	.023	3/8" x 5/16" Plastic	.2480" (6.30) Plastic	3590S-1-202-ND	10.02	8.12	7.41	7.02
5K	.025			3590S-1-502-ND	10.02	8.12	7.41	7.02
20K	.016			3590S-1-203-ND	10.02	8.12	7.41	7.02
50K	.013			3590S-1-503-ND	12.10	9.80	8.96	8.48
100K	.009			3590S-1-104-ND	12.98	10.51	9.61	9.10
500	.033	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-501-ND	10.02	8.12	7.41	7.02
1K	.029			3590S-2-102-ND	10.02	8.12	7.41	7.01
2K	.023			3590S-2-202-ND	10.02	8.12	7.41	7.02
5K	.025			3590S-2-502-ND	10.02	8.12	7.41	7.01
10K	.020			3590S-2-103-ND	10.02	8.12	7.41	7.01
20K	.016			3590S-2-203-ND	10.02	8.12	7.41	7.01
50K	.013			3590S-2-503-ND	12.10	9.80	8.95	8.47
100K	.009			3590S-2-104-ND	12.98	10.51	9.61	9.09
10K	.020	9mm x 7.94mm Metal	.2362" (6.00) Metal	3590S-6-103-ND	12.10	9.80	8.95	8.47

Precision Potentiometers

SERIES 3852

2 Watt Cermet 3/4" (19.05mm) Diameter Panel Control

• **Resistance Tolerance:** ±10% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 250° ±5° • **Contact Resistance Variation:** ±3% of total resistance or 3 ohms (whichever is greater) • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 900 VAC minimum; 70,000 Feet: 350 VAC minimum) • **Insulation Resistance (500 VDC):** 1,000 megohms minimum



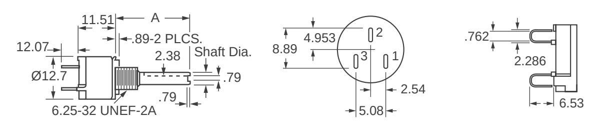
* 3852C – 1/4 - 32 UNEF

Ohms	Dim. A (mm)	Shaft Dia. (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250
1K	12.7	3.18	3852A-162-102A-ND	9.16	7.12	5.83	4.93	4.58
1K	22.20	6.35	3852A-282-102A-ND	9.16	7.12	5.83	4.93	4.58
5K	22.20	6.35	3852A-282-502A-ND	9.16	7.12	5.83	4.93	4.58
10K	22.20	6.35	3852A-282-103A-ND	9.16	7.12	5.83	4.93	4.58
10K	12.7	3.18	3852A-162-103A-ND	9.16	7.12	5.83	4.93	4.58
100K	22.20	6.35	3852A-282-104A-ND	9.16	7.12	5.83	4.93	4.58
10K	22.20	6.35	3852C-282-103A-ND*	9.16	7.12	5.83	4.93	4.58

SERIES 3862

1 Watt Cermet 1/2" (12.5mm) Diameter Single-Turn Panel Control

• **Resistance Tolerance:** ±10% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 260° ±10° • **Contact Resistance Variation:** ±3% of total resistance • **Theoretical Resolution:** Essentially infinite • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 750 VAC minimum; 70,000 Feet: 350 VAC minimum) • **Insulation Resistance (500 VDC):** 1,000 megohms minimum

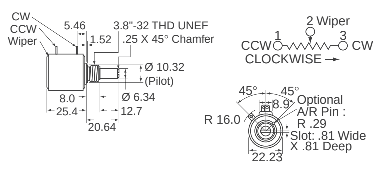


Ohms	Dim. A (mm)	Shaft Dia. (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250
10K	12.7	3.18	3862C-162-103A-ND	14.69	11.44	9.34	7.90	7.35
10K	22.20	6.35	3862C-282-103A-ND	14.69	11.44	9.34	7.90	7.35

SERIES 3500

2 Watt - 10 Turn Wirewound

- **Resistance Tolerance:** ±3%
- **Independent Linearity:** ±0.20%
- **Effective Electrical Angle:** 3600° +10°, -0°
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea level: 1,500 VAC minimum); 70,000 Feet: 400 VAC minimum
- **Insulation Resistance (500 VDC):** 1,000 megaohms minimum

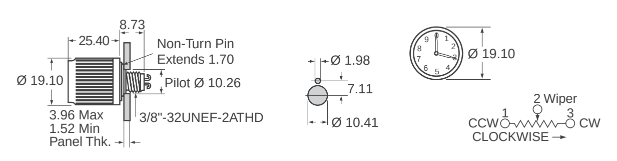


Ohms	Resolution %	Digi-Key Part No.	Price Each 1	25	100	500	1,000
1K	.030	3500S-2-102-ND	41.75	33.82	30.91	29.23	27.15
5K	.018	3500S-2-502-ND	41.75	33.82	30.91	29.23	27.15
10K	.019	3500S-2-103-ND	41.75	33.82	30.91	29.23	27.15

SERIES 3600

1.5 Watt - 10 Turn Wirewound Clock Face

• **Resistance Tolerance:** ±5% • **Accuracy (Correlation of Dial Readout to Voltage Ratio Output):** ±0.5% Voltage ratio • **Repeatability of Dial Readout:** ±0.1% Voltage ratio • **Effective Electrical Angle:** 3600° nominal • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,000 VAC minimum); 70,000 Feet: 400 VAC minimum

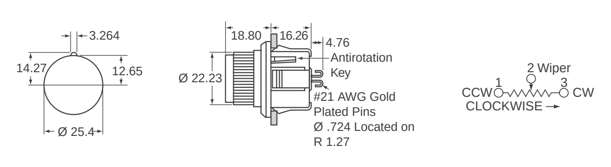


Ohms	Resolution %	Digi-Key Part No.	Price Each 1	25	100	500	1,000
10K	.022	3600S-1-103-ND	69.78	56.55	51.69	48.90	45.44

SERIES 3610

1.5 Watt - 10 Turn Wirewound Digital Clock Face

- **Resistance Tolerance:** ±5%
- **Accuracy (Correlation of Dial Readout to Voltage Ratio Output):** ±0.5% Voltage ratio
- **Repeatability of Dial Readout:** ±0.1% Voltage ratio
- **Effective Electrical Angle:** 3600° nominal
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,000 VAC minimum); 70,000 Feet: 400 VAC minimum

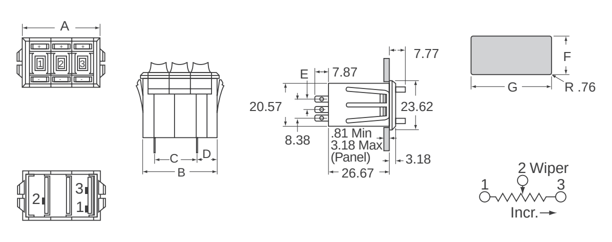


Ohms	Resolution %	Digi-Key Part No.	Price Each 1	25	100	500	1,000
1K	.035	3610S-1-102-ND	60.92	49.35	45.08	42.66	39.60
5K	.027	3610S-1-502-ND	60.92	49.35	45.08	42.66	39.60
10K	.022	3610S-1-103-ND	60.92	49.35	45.08	42.66	39.60

SERIES 3680

2 Watt Pushbutton Cermet

• **Resistance Tolerance:** ±3% • **Resolution:** 3682: 1%; 3683: 0.1% • **Power Rating:** +25°C: 2 Watts • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1000 VAC minimum)



Ohms	Dimensions (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	25	100	500	1,000
10K	26.67	25.15	10.67	11.94	8.38	21.08	25.91	3682S-1-103-ND	27.34	22.14	20.23	19.14	17.78
1K	37.08	35.31	18.54	11.94	4.19	21.08	36.07	3683S-1-102-ND	40.46	32.77	29.94	28.32	26.30
5K	37.08	35.31	18.54	11.94	4.19	21.08	36.07	3683S-1-502-ND	40.46	32.77	29.94	28.32	26.30
10K	37.08	35.31	18.54	11.94	4.19	21.08	36.07	3683S-1-103-ND	40.46	32.77	29.94	28.32	26.30

SERIES H-22, H-46, H-490, and H-550

Turn's Counting Dials

Fig. 1

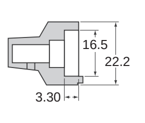


Fig. 2

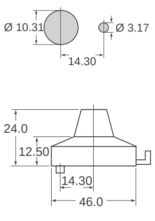


Fig. 3

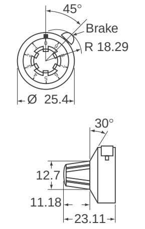


Fig. 4

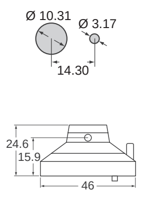
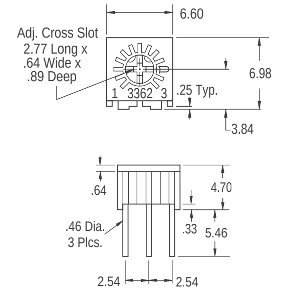


Fig.	Turns	Read Out	Division/ Turn	Brake	Diameter (mm)	Accepts Shaft Dia. (mm)	Body Finish	Digi-Key Part No.	Price Each 1	25	50
					H-22 Series						
1	0-15	Analog	50	Yes	22	6.35	Clear	H-22-6A-ND	8.54	8.12	7.69
					H-46 Series						
2	0-20	Analog	100	Yes	46	6.35	Clear	H-46-6A-ND	16.90	16.06	15.21
					H-490 Series						
3	0-30	Analog	100	Yes	25.4	6.35	Clear	H-492-3-ND	28.80	22.40	18.33
	0-30	Analog	100	Yes	25.4	6.35	Black	H-494-3-ND	28.80	22.40	18.33
				NEW!	H-550 Series			NEW!			
4	0-11	Analog	100	Yes	46	6.35	Clear	H-550-6A-1-ND	12.39	11.68	11.15

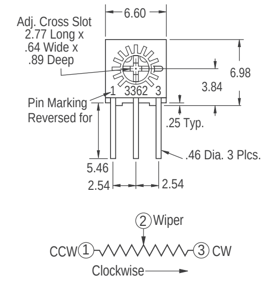
BOURNS Trimmer Potentiometers

SERIES 3362 1/4" (6.35mm) Square/Single-Turn Cermet/Industrial/Sealed

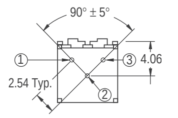
Common Dimensions
3362H, P, R, U



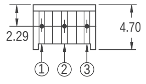
Common Dimensions
3362M, W, X



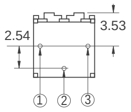
3362H



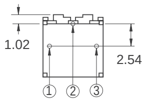
3362M



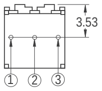
3362P



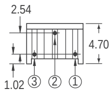
3362R



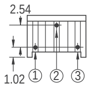
3362U



3362W



3362X



• Miniature package • Rotor designed for automatic machine adjust interface • Multi-wire wiper to minimize CRV • Withstands harsh environments and immersion cleaning process. **Resistance Tolerance:** ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Adjustment Angle:** 240° nom. **Power Rating** (300 volts max.): 70°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** —55°C to +125°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Mechanical Angle:** 270° nom. **Torque:** 3.0 oz-in. max. **Stop Strength:** 7.0 oz-in. min.

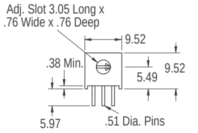
Res. (Ohms)	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key Part No.	Digi-Key* Part No.
100	3362H-101-ND	3362M-101-ND	3362P-101-ND	3362R-101-ND	3362U-101-ND	3362W-101-ND	3362X-101-ND
200	3362H-201-ND	3362M-201-ND	3362P-201-ND	3362R-201-ND	3362U-201-ND	3362W-201-ND	3362X-201-ND
500	3362H-501-ND	3362M-501-ND	3362P-501-ND	3362R-501-ND	3362U-501-ND	3362W-501-ND	3362X-501-ND
1K	3362H-102-ND	3362M-102-ND	3362P-102-ND	3362R-102-ND	3362U-102-ND	3362W-102-ND	3362X-102-ND
2K	3362H-202-ND	3362M-202-ND	3362P-202-ND	3362R-202-ND	3362U-202-ND	3362W-202-ND	3362X-202-ND
5K	3362H-502-ND	3362M-502-ND	3362P-502-ND	3362R-502-ND	3362U-502-ND	3362W-502-ND	3362X-502-ND
10K	3362H-103-ND	3362M-103-ND	3362P-103-ND	3362R-103-ND	3362U-103-ND	3362W-103-ND	3362X-103-ND
20K	3362H-203-ND	3362M-203-ND	3362P-203-ND	3362R-203-ND	3362U-203-ND	3362W-203-ND	3362X-203-ND
25K	3362H-253-ND	3362M-253-ND	3362P-253-ND	3362R-253-ND	3362U-253-ND	3362W-253-ND	3362X-253-ND
50K	3362H-503-ND	3362M-503-ND	3362P-503-ND	3362R-503-ND	3362U-503-ND	3362W-503-ND	3362X-503-ND
100K	3362H-104-ND	3362M-104-ND	3362P-104-ND	3362R-104-ND	3362U-104-ND	3362W-104-ND	3362X-104-ND
200K	3362H-204-ND	3362M-204-ND	3362P-204-ND	3362R-204-ND	3362U-204-ND	3362W-204-ND	3362X-204-ND
500K	3362H-504-ND	3362M-504-ND	3362P-504-ND	3362R-504-ND	3362U-504-ND	3362W-504-ND	3362X-504-ND
1M	3362H-105-ND	3362M-105-ND	3362P-105-ND	3362R-105-ND	3362U-105-ND	3362W-105-ND	3362X-105-ND

	Pricing		
Series	1	10	50
3362H / 3362M / 3362P / 3362R / 3362U / 3362W / 3362X	.83	7.50	36.75

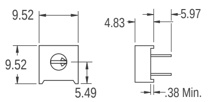
*** 3362☐-KIT-ND** ***Digi-Key® Series 3362 Trimmer Potentiometers Kit***
10 each of all values in denoted series (140 total pieces). Notebook style storage case and bin storage guide included. For complete number, substitute corresponding letter (H,R,U,M,X) for ☐ **$89.95**

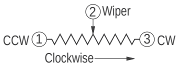
SERIES 3386 3/8" (9.52mm) Square/Single-Turn Cermet/Industrial/Sealed

Common Dimensions
Side Adjust – 3386C, H, W, X

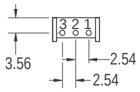


Common Dimensions
Top Adjust – 3386F, P, R

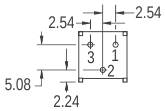




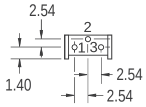
3386C



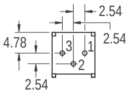
3386F



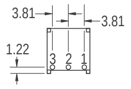
3386H



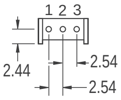
3386P



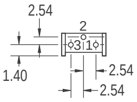
3386R



3386W



3386X



Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Adjustment Angle:** 280°. **Power Rating** (300 volts max.): 85°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** –55°C to +125°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 1% or 1 ohm, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 1% or 1 ohm, whichever is greater). **Mechanical Angle:** 310° nom. **Torque:** 5.0 oz-in. max. **Stop Strength:** 15.0 oz-in. min.

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
50	3386C-500-ND*	3386F-500-ND*	3386H-500-ND	3386P-500-ND*	3386R-500-ND*	3386W-500-ND	3386X-500-ND*
100	3386C-101-ND*	3386F-101-ND*	3386H-101-ND	3386P-101-ND*	3386R-101-ND*	3386W-101-ND	3386X-101-ND*
200	3386C-201-ND*	3386F-201-ND*	3386H-201-ND	3386P-201-ND*	3386R-201-ND*	3386W-201-ND	3386X-201-ND*
500	3386C-501-ND*	3386F-501-ND*	3386H-501-ND	3386P-501-ND*	3386R-501-ND*	3386W-501-ND	3386X-501-ND*
1K	3386C-102-ND*	3386F-102-ND*	3386H-102-ND	3386P-102-ND*	3386R-102-ND*	3386W-102-ND	3386X-102-ND*
2K	3386C-202-ND*	3386F-202-ND*	3386H-202-ND	3386P-202-ND*	3386R-202-ND*	3386W-202-ND	3386X-202-ND*
5K	3386C-502-ND*	3386F-502-ND*	3386H-502-ND	3386P-502-ND*	3386R-502-ND*	3386W-502-ND	3386X-502-ND*
10K	3386C-103-ND*	3386F-103-ND*	3386H-103-ND	3386P-103-ND*	3386R-103-ND*	3386W-103-ND	3386X-103-ND*
20K	3386C-203-ND*	3386F-203-ND*	3386H-203-ND	3386P-203-ND*	3386R-203-ND*	3386W-203-ND	3386X-203-ND*
25K	3386C-253-ND	3386F-253-ND	3386H-253-ND	3386P-253-ND	3386R-253-ND	3386W-253-ND	3386X-253-ND
50K	3386C-503-ND*	3386F-503-ND*	3386H-503-ND	3386P-503-ND*	3386R-503-ND*	3386W-503-ND	3386X-503-ND*
100K	3386C-104-ND*	3386F-104-ND*	3386H-104-ND	3386P-104-ND*	3386R-104-ND*	3386W-104-ND	3386X-104-ND*
200K	3386C-204-ND*	3386F-204-ND*	3386H-204-ND	3386P-204-ND*	3386R-204-ND*	—	3386X-204-ND*
250K	3386C-254-ND	3386F-254-ND	3386H-254-ND	3386P-254-ND	3386R-254-ND	3386W-254-ND	3386X-254-ND
500K	3386C-504-ND*	3386F-504-ND*	3386H-504-ND	3386P-504-ND*	3386R-504-ND*	3386W-504-ND	3386X-504-ND*
1M	3386C-105-ND*	3386F-105-ND*	3386H-105-ND	3386P-105-ND*	3386R-105-ND*	3386W-105-ND	3386X-105-ND*
2M	3386C-205-ND*	3386F-205-ND*	3386H-205-ND	3386P-205-ND*	3386R-205-ND*	3386W-205-ND	3386X-205-ND*

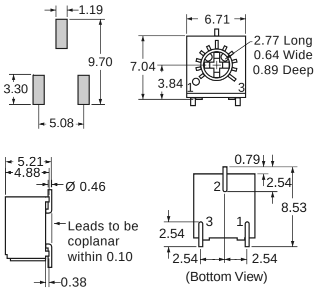
	Pricing		
Series	1	10	50
3386C/3386R	1.43	13.00	55.90
3386F/3386H/3386P/3386W/3386X	1.29	11.75	50.53

*** 3386☐-KIT-ND** ***Digi-Key® Series 3386 Trimmer Potentiometer Kit***
5 each of values denoted in series (75 total pieces). Notebook style kit box and bin storage guide included. For complete number, substitute corresponding letter (C,F,P,R,X) for ☐...**$65.95**

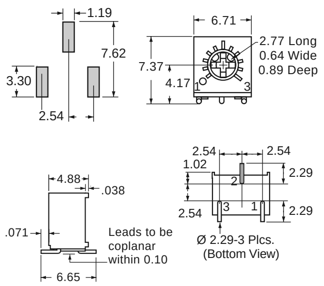
F

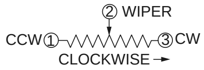
SERIES 3361 1/4" (6.35mm) Square SMD/Single-Turn Cermet/Industrial/Sealed

3361P



3361S





Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Adjustment Angle:** 240° nom. **Power Rating** (300 volts max.): 70°C — 0.50 watt; 125°C — 0 watt. **Temperature Range:** -55°C to +125°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Mechanical Angle:** 270° nom. **Torque:** 3.0 oz-in. max. **Stop Strength:** 7.0 oz-in. min.

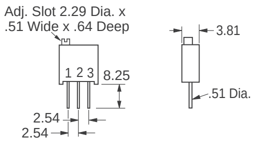
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.
100	3361P-101G☐☐-ND	3361S-101G☐☐-ND
200	3361P-201G☐☐-ND	3361S-201G☐☐-ND
500	3361P-501G☐☐-ND	3361S-501G☐☐-ND
1K	3361P-102G☐☐-ND	3361S-102G☐☐-ND
2K	3361P-202G☐☐-ND	3361S-202G☐☐-ND
5K	3361P-502G☐☐-ND	3361S-502G☐☐-ND
10K	3361P-103G☐☐-ND	3361S-103G☐☐-ND
20K	3361P-203G☐☐-ND	3361S-203G☐☐-ND
50K	3361P-503G☐☐-ND	3361S-503G☐☐-ND
100K	3361P-104G☐☐-ND	3361S-104G☐☐-ND

		Cut Tape Pricing				Tape & Reel Pricing	
Series	Part No.	1	10	50	Part No.	500	750
3361P	Add “CT-ND”	.96	8.75	42.00	Add “TR-ND”	—	459.75
3361S	Add “CT-ND”	.96	8.75	42.00	Add “TR-ND”	306.50	—

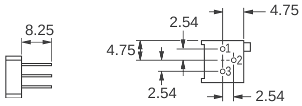
Trimmer Potentiometers

SERIES 3292 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

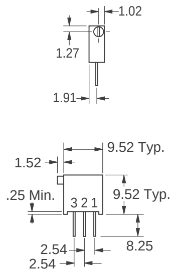
3292W

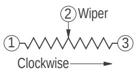


3292P



3292X





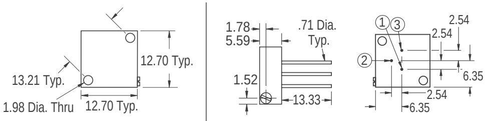
Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 25 turns nom. **Power Rating** (400 volts max.): 85°C — 0.5 watt; 150°C — 0 watt. **Temperature Range:** –65°C to +150°C. **Temperature Coefficient:** ±100 ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 85°C (2% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

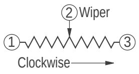
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3292P-101-ND	3292W-101-ND	3292X-101-ND
200	3292P-201-ND	3292W-201-ND	3292X-201-ND
500	3292P-501-ND	3292W-501-ND	3292X-501-ND
1K	3292P-102-ND	3292W-102-ND	3292X-102-ND
2K	3292P-202-ND	3292W-202-ND	3292X-202-ND
5K	3292P-502-ND	3292W-502-ND	3292X-502-ND
10K	3292P-103-ND	3292W-103-ND	3292X-103-ND
20K	3292P-203-ND	3292W-203-ND	3292X-203-ND
50K	3292P-503-ND	3292W-503-ND	3292X-503-ND
100K	3292P-104-ND	3292W-104-ND	3292X-104-ND
200K	3292P-204-ND	3292W-204-ND	3292X-204-ND
500K	3292P-504-ND	3292W-504-ND	3292X-504-ND
1M	3292P-105-ND	3292W-105-ND	3292X-105-ND

		Pricing	
Series	1	10	50
3292P/3292W/3292X	15.51	141.00	606.30

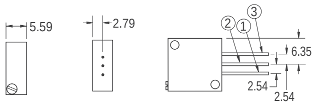
SERIES 3252 1/2" (12.70mm) Square/Multiturn (25) Cermet/Industrial/Sealed

3252P

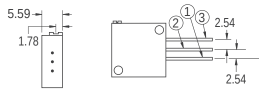




3252W



3252X



Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc 1,000 megohms min. **Effective Travel:** 25 turns nom. **Power Rating** (400 volts max.): 85°C — 0.75 watt; 150°C — 0 watt. **Temperature Range:** –65°C to +150°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.75 watt @ 85°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3252P-101-ND*	3252W-101-ND*	3252X-101-ND*
200	3252P-201-ND	3252W-201-ND	—
500	3252P-501-ND*	3252W-501-ND*	3252X-501-ND*
1K	3252P-102-ND*	3252W-102-ND*	3252X-102-ND*
2K	3252P-202-ND	3252W-202-ND	3252X-202-ND
5K	3252P-502-ND*	3252W-502-ND*	3252X-502-ND*
10K	3252P-103-ND*	3252W-103-ND*	3252X-103-ND*
20K	3252P-203-ND	3252W-203-ND	3252X-203-ND
50K	3252P-503-ND*	3252W-503-ND*	3252X-503-ND*
100K	3252P-104-ND	3252W-104-ND	3252X-104-ND
200K	3252P-204-ND	3252W-204-ND	3252X-204-ND

		Pricing	
Series	1	10	50
3252P/3252W/3252X	14.44	131.25	564.38

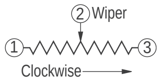
* **3252-KIT-ND** ***Digi-Key® Series 3252 Trimmer Potentiometer Kit***

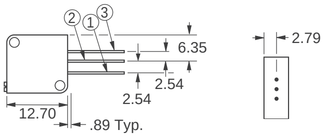
5 each of values denoted (90 total pieces). Notebook style kit box and bin storage guide included **$599.00**

SERIES 3250 1/2" (12.70mm) Square/Multiturn (25) Wirewound/Sealed

Resistance Tolerance: ±5% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Adjustment Travel:** 25 turns nom. **Power Rating:** 85°C – 1 watt; 150°C – 0 watt. **Temperature Range:** –65°C to +150°C. **Temperature Coefficient:** ±70 ppm/°C. **Load Life:** 1,000 hours 1 watt @ 85°C (2% ΔTR; ENR, 500 ohms). **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500 ohms). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

3250W



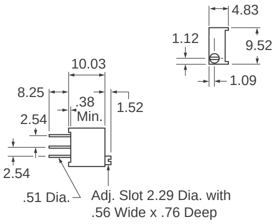


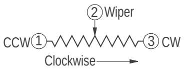
Res. (Ohms)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3250W-201-ND	0.70
500	3250W-501-ND	0.60
1K	3250W-102-ND	0.40
2K	3250W-202-ND	0.30
5K	3250W-502-ND	0.25
10K	3250W-103-ND	0.19
20K	3250W-203-ND	0.16

		Pricing	
Series	1	10	50
3250W	12.49	113.50	488.05

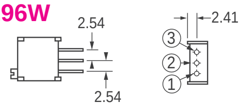
SERIES 3296 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

Common Dimensions

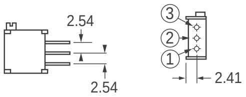




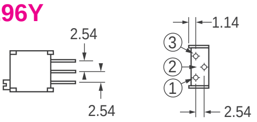
3296W



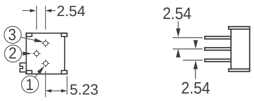
3296X



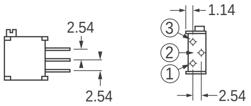
3296Y



3296P



3296Z



Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 25 turns nom. **Power Rating** (300 volts max.): 70°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** -55°C to +125°C. **Temperature Coefficient:** ±100 ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 3.0 oz-in. max. **Mechanical Stops:** Wiper idles.

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3296P-100-ND*	3296W-100-ND*	3296X-100-ND*	3296Y-100-ND*	—
20	3296P-200-ND	3296W-200-ND	3296X-200-ND	3296Y-200-ND	3296Z-200-ND
50	3296P-500-ND*	3296W-500-ND*	3296X-500-ND*	3296Y-500-ND*	3296Z-500-ND*
100	3296P-101-ND*	3296W-101-ND*	3296X-101-ND*	3296Y-101-ND*	3296Z-101-ND*
200	3296P-201-ND	3296W-201-ND	3296X-201-ND	3296Y-201-ND	3296Z-201-ND
500	3296P-501-ND*	3296W-501-ND*	3296X-501-ND*	3296Y-501-ND*	3296Z-501-ND*
1K	3296P-102-ND*	3296W-102-ND*	3296X-102-ND*	3296Y-102-ND*	3296Z-102-ND*
2K	3296P-202-ND*	3296W-202-ND*	3296X-202-ND*	3296Y-202-ND*	3296Z-202-ND*
5K	3296P-502-ND*	3296W-502-ND*	3296X-502-ND*	3296Y-502-ND*	3296Z-502-ND*
10K	3296P-103-ND*	3296W-103-ND*	3296X-103-ND*	3296Y-103-ND*	3296Z-103-ND*
20K	3296P-203-ND*	3296W-203-ND*	3296X-203-ND*	3296Y-203-ND*	3296Z-203-ND*
25K	3296P-253-ND	3296W-253-ND	3296X-253-ND	3296Y-253-ND	3296Z-253-ND
50K	3296P-503-ND*	3296W-503-ND*	3296X-503-ND*	3296Y-503-ND*	3296Z-503-ND*
100K	3296P-104-ND*	3296W-104-ND*	3296X-104-ND*	3296Y-104-ND*	3296Z-104-ND*
200K	3296P-204-ND*	3296W-204-ND*	3296X-204-ND*	3296Y-204-ND*	3296Z-204-ND*
250K	3296P-254-ND	3296W-254-ND	3296X-254-ND	3296Y-254-ND	3296Z-254-ND
500K	3296P-504-ND*	3296W-504-ND*	3296X-504-ND*	3296Y-504-ND*	3296Z-504-ND*
1M	3296P-105-ND*	3296W-105-ND*	3296X-105-ND*	3296Y-105-ND*	3296Z-105-ND*
2M	3296P-205-ND*	3296W-205-ND*	3296X-205-ND*	3296Y-205-ND*	3296Z-205-ND*
5M	3296P-505-ND	3296W-505-ND	3296X-505-ND	—	3296Z-505-ND

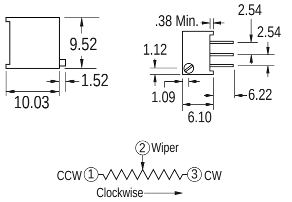
		Pricing	
Series	1	10	50
3296P/3296Z	2.70	24.50	105.35
3296W/3296X/3296Y	2.50	22.75	97.83

* **3296☐ -KIT-ND** ***Digi-Key® Series 3296 Trimmer Potentiometer Kit***

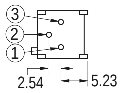
5 each of values denoted in series (75 total pieces). Notebook style case and bin storage guide included. For complete number, substitute corresponding letter (P,W,X,Y,Z) for ☐ **$139.00**

BOURNS Trimmer Potentiometers

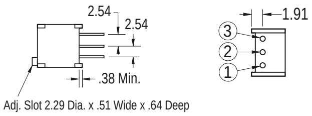
SERIES 3299 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed



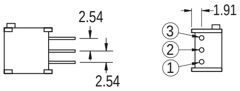
3299P



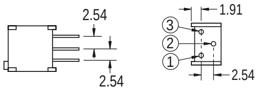
3299W



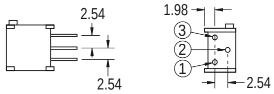
3299X



3299Y



3299Z



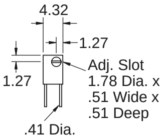
Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 25 turns nom. **Power Rating** (300 volts max.): 70°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** –55°C to +125°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 3.0 oz-in. max. **Mechanical Stops:** Wiper idles.

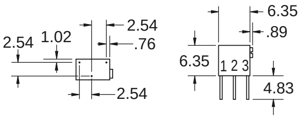
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3299P-100-ND	3299W-100-ND	3299X-100-ND	3299Y-100-ND	3299Z-100-ND
20	3299P-200-ND	3299W-200-ND	3299X-200-ND	3299Y-200-ND	3299Z-200-ND
50	3299P-500-ND	3299W-500-ND	3299X-500-ND	3299Y-500-ND	3299Z-500-ND
100	3299P-101-ND	3299W-101-ND	3299X-101-ND	3299Y-101-ND	3299Z-101-ND
200	3299P-201-ND	3299W-201-ND	3299X-201-ND	3299Y-201-ND	3299Z-201-ND
500	3299P-501-ND	3299W-501-ND	3299X-501-ND	3299Y-501-ND	3299Z-501-ND
1K	3299P-102-ND	3299W-102-ND	3299X-102-ND	3299Y-102-ND	3299Z-102-ND
2K	3299P-202-ND	3299W-202-ND	3299X-202-ND	3299Y-202-ND	3299Z-202-ND
5K	3299P-502-ND	3299W-502-ND	3299X-502-ND	3299Y-502-ND	3299Z-502-ND
10K	3299P-103-ND	3299W-103-ND	3299X-103-ND	3299Y-103-ND	3299Z-103-ND
20K	3299P-203-ND	3299W-203-ND	3299X-203-ND	3299Y-203-ND	3299Z-203-ND
25K	3299P-253-ND	3299W-253-ND	—	3299Y-253-ND	3299Z-253-ND
50K	3299P-503-ND	3299W-503-ND	3299X-503-ND	3299Y-503-ND	3299Z-503-ND
100K	3299P-104-ND	3299W-104-ND	3299X-104-ND	3299Y-104-ND	3299Z-104-ND
200K	3299P-204-ND	3299W-204-ND	3299X-204-ND	3299Y-204-ND	3299Z-204-ND
250K	3299P-254-ND	3299W-254-ND	3299X-254-ND	3299Y-254-ND	3299Z-254-ND
500K	3299P-504-ND	3299W-504-ND	3299X-504-ND	3299Y-504-ND	3299Z-504-ND
1M	3299P-105-ND	3299W-105-ND	3299X-105-ND	3299Y-105-ND	3299Z-105-ND
2M	3299P-205-ND	3299W-205-ND	3299X-205-ND	3299Y-205-ND	3299Z-205-ND
5M	3299P-505-ND	3299W-505-ND	3299X-505-ND	3299Y-505-ND	3299Z-505-ND

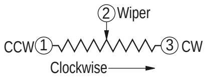
	Pricing		
Series	1	10	50
3299P/3299Z	3.14	28.50	122.55
3299W/3299X/3299Y	2.92	26.50	113.95

SERIES 3260 1/4" (6.35mm) Square/Multiturn (11) Wirewound/Industrial/Sealed

3260H







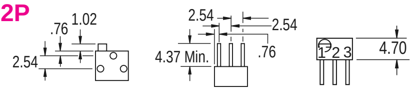
Resistance Tolerance: ±5% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Adjustment Angle:** 11 turns nom. **Power Rating:** 85°C – 0.25 watt; 150°C – 0 watt. **Temperature Range:** –65°C to +150°C. **Temperature Coefficient:** +70ppm/°C. **Load Life:** 1,000 hours 0.25 watt @ 85°C (2% DTR; ENR, 500 ohms). **Rotational Life:** 200 cycles (2% DTR; ENR, 500 ohms). **Torque:** 3.0 oz-in. max. **Mechanical Stops:** Wiper idles.

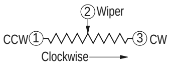
Res. (Ohms)	Digi-Key Part No.	Nominal Resolution (Percent)
100	3260H-101-ND	1.00
200	3260H-201-ND	0.94
500	3260H-501-ND	0.58
1K	3260H-102-ND	0.50
2K	3260H-202-ND	0.45
10K	3260H-103-ND	0.29
20K	3260H-203-ND	0.28

	Pricing		
Series	1	10	50
3260H	27.17	247.00	1062.10

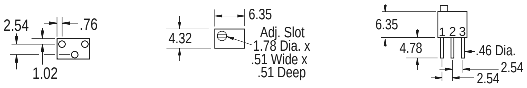
SERIES 3262 1/4" (6.35mm) Square/Multiturn (12) Cermet/Industrial/Sealed

3262P

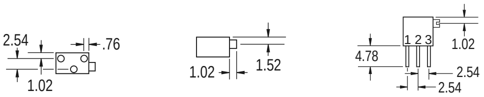




3262W



3262X

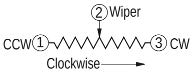


Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 12 turns nom. **Power Rating:** (300 volts max.) 85°C — 0.25 watt; 150°C — 0 watt. **Temperature Range:** –65°C to +150°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.25 watt @ 85°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 3.0 oz-in. max. **Mechanical Stops:** Wiper idles.

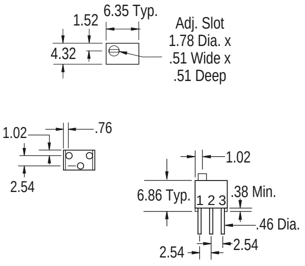
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3262P-100-ND	3262W-100-ND	3262X-100-ND
20	3262P-200-ND	3262W-200-ND	3262X-200-ND
50	3262P-500-ND	3262W-500-ND	3262X-500-ND
100	3262P-101-ND	3262W-101-ND	3262X-101-ND
200	3262P-201-ND	3262W-201-ND	3262X-201-ND
500	3262P-501-ND	3262W-501-ND	3262X-501-ND
1K	3262P-102-ND	3262W-102-ND	3262X-102-ND
2K	3262P-202-ND	3262W-202-ND	3262X-202-ND
5K	3262P-502-ND	3262W-502-ND	3262X-502-ND
10K	3262P-103-ND	3262W-103-ND	3262X-103-ND
20K	3262P-203-ND	3262W-203-ND	3262X-203-ND
25K	3262P-253-ND	3262W-253-ND	3262X-253-ND
50K	3262P-503-ND	3262W-503-ND	3262X-503-ND
100K	3262P-104-ND	3262W-104-ND	3262X-104-ND
200K	3262P-204-ND	3262W-204-ND	3262X-204-ND
250K	3262P-254-ND	3262W-254-ND	3262X-254-ND
500K	3262P-504-ND	3262W-504-ND	3262X-504-ND
1M	3262P-105-ND	3262W-105-ND	3262X-105-ND

	Pricing		
Series	1	10	50
3262P/3262W/3262X	14.30	130.00	559.00

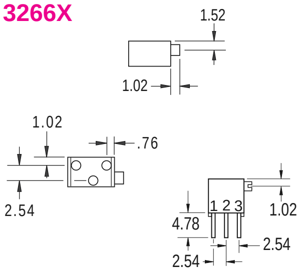
SERIES 3266 1/4" (6.35mm) Square/Multiturn (12) Cermet/Industrial/Sealed



3266W



3266X



Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 12 turns nom. **Power Rating (300 volts max.):** 70°C — 0.25 watt; 150°C — 0 watt. **Temperature Range:** –55°C to +125°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.25 watt @ 70°C (3% ΔTR; CRV, 3%). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 3.0 oz-in. max. **Mechanical Stops:** Wiper idles.

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.
10	3266W-100-ND*	3266X-100-ND*
20	3266W-200-ND*	3266X-200-ND*
50	3266W-500-ND*	3266X-500-ND*
100	3266W-101-ND*	3266X-101-ND*
200	3266W-201-ND*	3266X-201-ND*
500	3266W-501-ND*	3266X-501-ND*
1K	3266W-102-ND*	3266X-102-ND*
2K	3266W-202-ND*	3266X-202-ND*
5K	3266W-502-ND*	3266X-502-ND*
10K	3266W-103-ND*	3266X-103-ND*
20K	3266W-203-ND*	3266X-203-ND*
25K	3266W-253-ND*	3266X-253-ND*
50K	3266W-503-ND*	3266X-503-ND*
100K	3266W-104-ND*	3266X-104-ND*
200K	3266W-204-ND*	3266X-204-ND*
250K	3266W-254-ND*	3266X-254-ND*
500K	3266W-504-ND*	3266X-504-ND*
1M	3266W-105-ND	3266X-105-ND

	Pricing		
Series	1	10	50
3266W/3266X	3.58	32.50	139.75

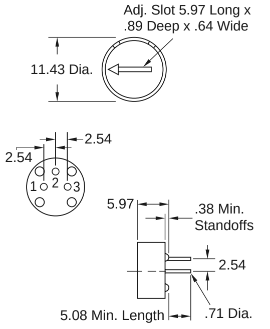
*** 3266☐-KIT-ND** ***Digi-Key® Series 3266 Trimmer Potentiometer Kit***

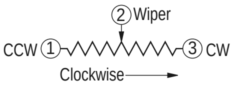
5 each in values denoted in series (85 total pieces). Notebook style storage case and bin storage guide included. For complete number, substitute corresponding letter (W,X) for ☐ **$199.00**

BOURNS Trimmer Potentiometers

SERIES 3345 1/2" (12.70mm) Round/Single-Turn Wirewound/Industrial/Sealed

3345P





• Industrial wirewound. • 1.0 watt power rating at 70°C. **Resistance Tolerance:** ±5% std. **Adjustment Angle:** 280° nom. **Power Rating:** 70°C — 1 watt; 150°C — 0 watt. **Temperature Range:** –55°C to +150°C. **Temperature Coefficient:** ±50ppm/°C. **Load Life:** 1,000 hours 1 watt @ 70°C. **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500 ohms). **Mechanical Angle:** 310° nom. **Torque:** 5.0 oz-in. max. **Stop Strength:** 15 oz-in. min.

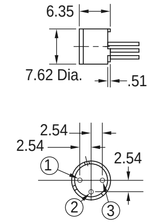
Res. (Ohms)	Digi-Key* Part No.	Nominal Resolution (Percent)
50	3345P-500-ND	0.58
100	3345P-101-ND	0.49
200	3345P-201-ND	0.49
500	3345P-501-ND	0.38
1K	3345P-102-ND	0.30
2K	3345P-202-ND	0.24
5K	3345P-502-ND	0.18
10K	3345P-103-ND	0.14
20K	3345P-203-ND	0.13

Series	Pricing 1	 10	 50
3345P	8.28	75.25	323.58

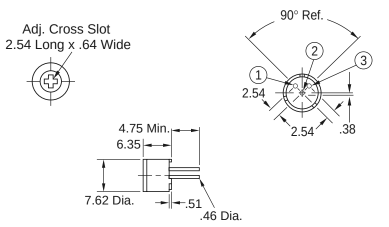
* **3345P-KIT-ND** ***Digi-Key® Series 3345 Trimmer Potentiometers Kit*** 5 each of all values (45 total pieces). Notebook style case and bin storage guide included **$199.95**

SERIES 3339 5/16" (7.95mm) Round/Four-Turn Cermet/Industrial/Sealed

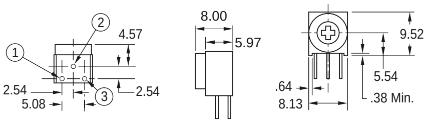
3339P

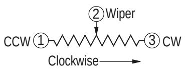


3339H



3339W





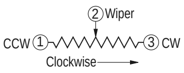
• Unique planetary drive offers precise wiper setting of a multiturn in a single-turn package size. • Top and side adjust styles. **Resistance Tolerance:** ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 4 turns nom. **Power Rating** (300 volts max.): 85°C — 0.5 watt; 150°C — 0 watt. **Temperature Range:** –55°C to +150°C. **Temperature Coefficient:** ±100 ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 3.0 oz-in. max. **Mechanical Stops:** Wiper idles.

Res. (Ohms)	Digi-Key Part No.	Digi-Key* Part No.	Digi-Key* Part No.
50	3339H-500-ND	3339P-500-ND	3339W-500-ND
100	3339H-101-ND	3339P-101-ND	3339W-101-ND
200	3339H-201-ND	3339P-201-ND	3339W-201-ND
500	3339H-501-ND	3339P-501-ND	3339W-501-ND
1K	3339H-102-ND	3339P-102-ND	3339W-102-ND
2K	3339H-202-ND	3339P-202-ND	3339W-202-ND
5K	3339H-502-ND	3339P-502-ND	3339W-502-ND
10K	3339H-103-ND	3339P-103-ND	3339W-103-ND
20K	3339H-203-ND	3339P-203-ND	3339W-203-ND
50K	3339H-503-ND	3339P-503-ND	3339W-503-ND
100K	3339H-104-ND	3339P-104-ND	3339W-104-ND
200K	3339H-204-ND	3339P-204-ND	3339W-204-ND
500K	3339H-504-ND	3339P-504-ND	3339W-504-ND
1M	3339H-105-ND	3339P-105-ND	3339W-105-ND

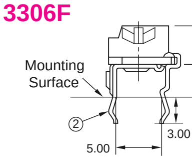
Series	Pricing 1	 10	 50
3339H/3339P	5.28	48.00	206.40
3339W	7.59	69.00	296.70

* **3339☐-KIT-ND** ***Digi-Key® Series 3339 Trimmer Potentiometers Kit***
5 each of all values in denoted series (70 total pieces). Notebook style case and bin storage guide included. For complete number, substitute corresponding letter (P,W) for ☐ **$269.00**

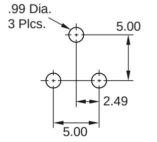
SERIES 3306 6mm Round/Single-Turn Cermet/Industrial/Open Frame



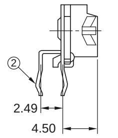
3306F



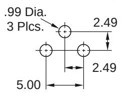
Suggested PWB Layout



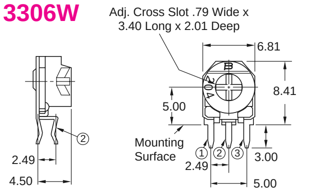
3306K



Suggested PWB Layout

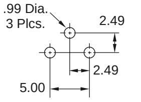


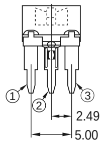
3306W

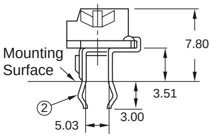


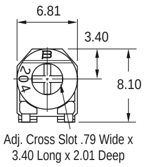
3306P

Suggested PWB Layout









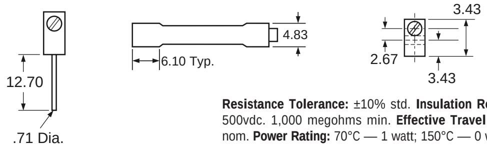
• Cross slot rotor design suitable for automatic adjustment equipment. • Board retention feature. • Dust resistant/splash resistant cover. • Front and top adjust styles. **Resistance Tolerance:** ±25% std. **Adjustment Angle:** 215° nom. **Power Rating** (100 volts max.): 70°C — 0.2 watt. **Temperature Range:** –25°C to +100°C. **Temperature Coefficient:** ±250ppm/°C. **Load Life:** 1,000 hours 0.2 watt @ 70°C (5% ΔTR). **Torque** (Operating): 4.5 oz-in. max. **Stop Strength:** 6.5 oz-in. min.

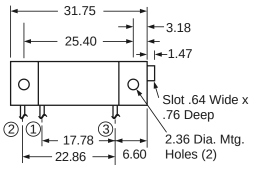
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3306F-101-ND	3306K-101-ND	3306P-101-ND	3306W-101-ND
200	3306F-201-ND	3306K-201-ND	3306P-201-ND	3306W-201-ND
500	3306F-501-ND	3306K-501-ND	3306P-501-ND	3306W-501-ND
1K	3306F-102-ND	3306K-102-ND	3306P-102-ND	3306W-102-ND
2K	3306F-202-ND	3306K-202-ND	3306P-202-ND	3306W-202-ND
5K	3306F-502-ND	3306K-502-ND	3306P-502-ND	3306W-502-ND
10K	3306F-103-ND	3306K-103-ND	3306P-103-ND	3306W-103-ND
20K	3306F-203-ND	3306K-203-ND	3306P-203-ND	3306W-203-ND
50K	3306F-503-ND	3306K-503-ND	3306P-503-ND	3306W-503-ND
100K	3306F-104-ND	3306K-104-ND	3306P-104-ND	3306W-104-ND
200K	3306F-204-ND	3306K-204-ND	3306P-204-ND	3306W-204-ND
500K	3306F-504-ND	3306K-504-ND	3306P-504-ND	3306W-504-ND
1M	3306F-105-ND	3306K-105-ND	3306P-105-ND	3306W-105-ND

Series	Pricing 1	 10	 100
3306F / 3306K / 3306P / 3306W	.57	4.30	40.16

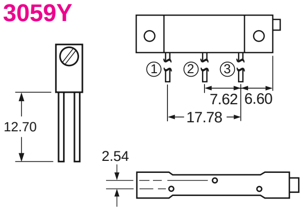
SERIES 3059 1-1/4" (31.75mm) Rectangular/Multiturn (22) Cermet/Industrial/Sealed

3059P





3059Y



Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 22 turns nom. **Power Rating:** 70°C — 1 watt; 150°C — 0 watt. **Temperature Range:** –55°C to +150°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 1 watt @ 70°C (3% ΔTR; CRV, 1% or 1 ohm, whichever is greater). **Rotational Life:** 200 cycles (2% ΔTR; CRV, 1% or 1 ohm, whichever is greater). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

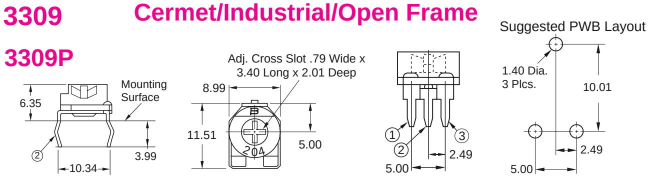
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.
100	3059P-101-ND	3059Y-101-ND
200	3059P-201-ND	3059Y-201-ND
500	3059P-501-ND	3059Y-501-ND
1K	3059P-102-ND	3059Y-102-ND
2K	3059P-202-ND	3059Y-202-ND
5K	3059P-502-ND	3059Y-502-ND
10K	3059P-103-ND	3059Y-103-ND
20K	3059P-203-ND	3059Y-203-ND
50K	3059P-503-ND	3059Y-503-ND
100K	3059P-104-ND	3059Y-104-ND
200K	3059P-204-ND	3059Y-204-ND
500K	3059P-504-ND	3059Y-504-ND
1M	3059P-105-ND	3059Y-105-ND

Series	Pricing 1	 10	 50
3059P/3059Y	6.49	59.00	253.70

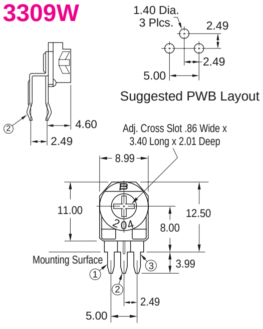
BOURNS Trimmer Potentiometers

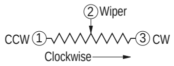
SERIES 3309 9mm Round/Single-Turn Cermet/Industrial/Open Frame

3309P



3309W





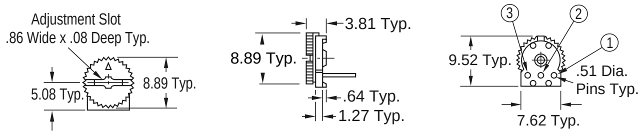
Resistance Tolerance: ±25% std. **Adjustment Angle:** 235° nom. **Power Rating** (250 volts max.): 70°C — 0.5 watt. **Temperature Range:** –25°C to +100°C. **Temperature Coefficient:** ±250ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (5% ΔTR). **Torque:** 5.0 oz-in. max. **Stop Strength:** 11.0 oz-in. min.

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.
100	3309P-101-ND*	3309W-101-ND*
200	3309P-201-ND	3309W-201-ND
500	3309P-501-ND*	3309W-501-ND*
1K	3309P-102-ND*	3309W-102-ND*
2K	3309P-202-ND*	3309W-202-ND*
5K	3309P-502-ND*	3309W-502-ND*
10K	3309P-103-ND*	3309W-103-ND*
20K	3309P-203-ND*	3309W-203-ND*
50K	3309P-503-ND*	3309W-503-ND*
100K	3309P-104-ND*	3309W-104-ND*
200K	3309P-204-ND	3309W-204-ND
500K	3309P-504-ND	3309W-504-ND
1M	3309P-105-ND	3309W-105-ND

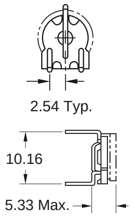
		Pricing	
Series	**1**	**10**	**100**
3309P / 3309W	.56	4.77	39.54

* **3309-KIT-ND** ***Digi-Key® Series 3309 Trimmer Potentiometers Kit***
10 each of values denoted (180 total pieces). Notebook style storage case and bin storage guide included. **$69.95**

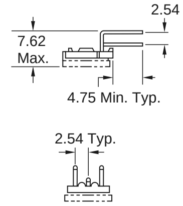
SERIES 3352 3/8" (9.52mm) Round/Single-Turn Cermet/Industrial/Open Frame



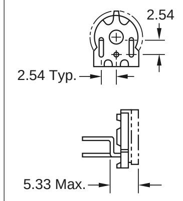
3352E



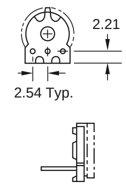
3352H



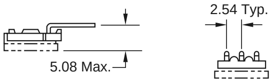
3352P

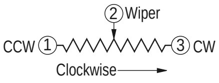


3352T



3352W





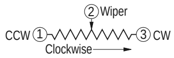
Resistance Tolerance: ±20% std. **Adjustment Angle:** 205° nom. **Power Rating** (250 volts max.): 85°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** –55°C to +125°C. **Temperature Coefficient:** Below 2K — ±150ppm/°C; 2K & up — +100ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR). **Rotational Life:** 200 cycles (10% DTR). **Mechanical Angle:** 250° nom. **Torque:** 3.0 oz-in. max. **Stop Strength:** 8 oz-in. min.

Res. (Ohms)	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.
100	3352E-101-ND	3352H-101-ND	3352P-101-ND	3352T-101-ND	3352W-101-ND
200	3352E-201-ND	3352H-201-ND	3352P-201-ND	3352T-201-ND	3352W-201-ND
500	3352E-501-ND	3352H-501-ND	3352P-501-ND	3352T-501-ND	3352W-501-ND
1K	3352E-102-ND	3352H-102-ND	3352P-102-ND	3352T-102-ND	3352W-102-ND
2K	3352E-202-ND	3352H-202-ND	3352P-202-ND	3352T-202-ND	3352W-202-ND
5K	3352E-502-ND	3352H-502-ND	3352P-502-ND	3352T-502-ND	3352W-502-ND
10K	3352E-103-ND	3352H-103-ND	3352P-103-ND	3352T-103-ND	3352W-103-ND
20K	3352E-203-ND	3352H-203-ND	3352P-203-ND	3352T-203-ND	3352W-203-ND
25K	3352E-253-ND	3352H-253-ND	3352P-253-ND	3352T-253-ND	3352W-253-ND
50K	3352E-503-ND	3352H-503-ND	3352P-503-ND	3352T-503-ND	3352W-503-ND
100K	3352E-104-ND	3352H-104-ND	3352P-104-ND	3352T-104-ND	3352W-104-ND
200K	3352E-204-ND	3352H-204-ND	3352P-204-ND	3352T-204-ND	3352W-204-ND
250K	3352E-254-ND	3352H-254-ND	3352P-254-ND	3352T-254-ND	3352W-254-ND
500K	3352E-504-ND	3352H-504-ND	3352P-504-ND	3352T-504-ND	3352W-504-ND
1M	3352E-105-ND	3352H-105-ND	3352P-105-ND	3352T-105-ND	3352W-105-ND

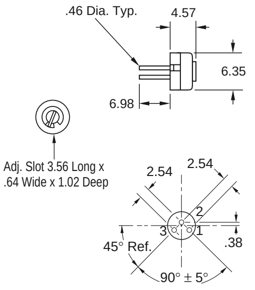
		Pricing	
Series	**1**	**10**	**50**
3352E / 3352H / 3352P / 3352T / 3352W	1.10	10.00	43.00

* **3352☐-KIT-ND** ***Digi-Key® Series 3352 Trimmer Potentiometers Kit***
5 each of all values in denoted series (75 total pieces). Notebook style kit box and bin storage guide included. For complete number, substitute corresponding letter (E,H,P,T,W,) for ☐ **$49.95**

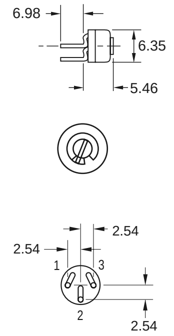
SERIES 3329 1/4" (6.35mm) Round/Single-Turn Cermet/Industrial/Sealed



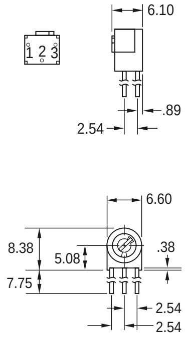
3329H



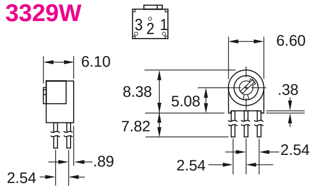
3329P



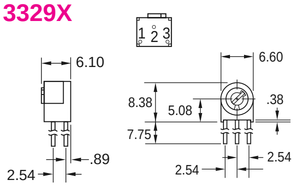
3329S



3329W



3329X



Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Adjustment Angle:** 240° nom. **Power Rating** (300 volts max.): 85°C — 0.5 watt; 150°C — 0 watt. **Temperature Range:** –55°C to +150°C. **Temperature Coefficient:** ±100 ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR; CRV, 3%). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 4%). **Mechanical Angle:** 260° nom. **Torque:** 5.0 oz-in. max. **Stop Strength:** 5.0 oz-in. min.

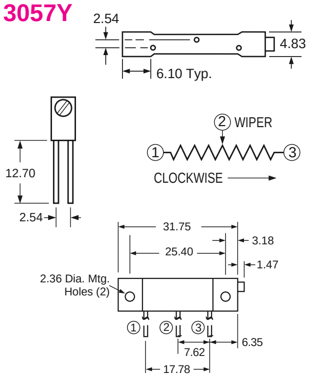
Res. (Ohms)	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.
50	3329H-500-ND	3329P-500-ND	3329S-500-ND	3329W-500-ND	3329X-500-ND
100	3329H-101-ND	3329P-101-ND	3329S-101-ND	3329W-101-ND	3329X-101-ND
200	3329H-201-ND	3329P-201-ND	3329S-201-ND	3329W-201-ND	3329X-201-ND
500	3329H-501-ND	3329P-501-ND	3329S-501-ND	3329W-501-ND	3329X-501-ND
1K	3329H-102-ND	3329P-102-ND	3329S-102-ND	3329W-102-ND	3329X-102-ND
2K	3329H-202-ND	3329P-202-ND	3329S-202-ND	3329W-202-ND	3329X-202-ND
5K	3329H-502-ND	3329P-502-ND	3329S-502-ND	3329W-502-ND	3329X-502-ND
10K	3329H-103-ND	3329P-103-ND	3329S-103-ND	3329W-103-ND	3329X-103-ND
20K	3329H-203-ND	3329P-203-ND	3329S-203-ND	3329W-203-ND	3329X-203-ND
50K	3329H-503-ND	3329P-503-ND	3329S-503-ND	3329W-503-ND	3329X-503-ND
100K	3329H-104-ND	3329P-104-ND	3329S-104-ND	3329W-104-ND	3329X-104-ND
200K	3329H-204-ND	3329P-204-ND	3329S-204-ND	3329W-204-ND	3329X-204-ND
500K	3329H-504-ND	3329P-504-ND	3329S-504-ND	3329W-504-ND	3329X-504-ND
1M	3329H-105-ND	3329P-105-ND	3329S-105-ND	3329W-105-ND	3329X-105-ND

		Pricing	
Series	**1**	**10**	**50**
3329H/3329P	2.61	23.75	102.13
3329S/3329W/3329X	3.14	28.50	122.55

* **3329☐-KIT-ND** ***Digi-Key® Series 3329 Trimmer Potentiometers Kit***
5 each of all values in denoted series (70 total pieces). Notebook style case and bin storage guide included. For complete number, substitute corresponding letter (H,P,S,W,X) for ☐ **$129.95**

SERIES 3057 1-1/4" (31.75mm) Rectangular/Multiturn (22) Wirewound/Industrial/Sealed

3057Y



Resistance Tolerance: ±5% std. **Insulation Resistance:** 500vdc. 1,000 MΩ min. **Adjustment Travel:** 22 turns nom. **Power Rating:** 70°C — 1 watt; 150°C — 0 watt. **Temperature Range:** -55°C to +150°C. **Temperature Coefficient:** ±50ppm/°C. **Load Life:** 1,000 hours 1 watt @ 70°C (2% ΔTR). **Rotational Life:** 200 cycles (2% ΔTR). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

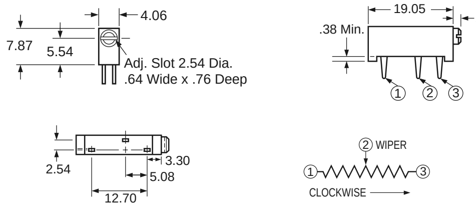
Res. (Ohms)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3057Y-201-ND	0.86
500	3057Y-501-ND	0.89
1K	3057Y-102-ND	0.72
2K	3057Y-202-ND	0.58
5K	3057Y-502-ND	0.43
10K	3057Y-103-ND	0.34
20K	3057Y-203-ND	0.31

		Pricing	
Series	**1**	**10**	**50**
3057Y	19.06	173.25	744.98

Trimmer Potentiometers

SERIES 3005 3/4" (19.05mm) Rectangular/Multiturn (20) Wirewound/Industrial/Sealed

3005P

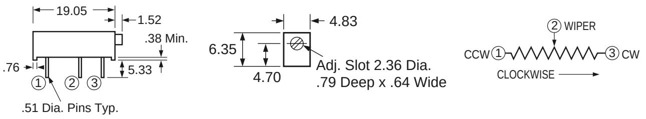


Sealed to prevent contamination from fluxing, soldering and cleaning. **Resistance Tolerance:** ±10% std. **Insulation Resistance:** 500vdc. 1,000 MΩ min. **Adjustment Travel:** 20 turns nom. **Power Rating:** 70°C — 1 watt; 125°C — 0 watt. **Temperature Range:** –65°C to +125°C. **Temperature Coefficient:** ±50ppm/°C. **Load Life:** 1,000 hours 1 watt @ 70°C (3% ΔTR). **Rotational Life:** 200 cycles (4% ΔTR). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

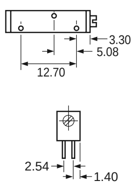
Series	Pricing 1	10	50
3005P	10.15	92.25	396.68

Res. (Ohms)	Digi-Key Part No.	Nominal Resolution (Percent)
100	3005P-101-ND	0.8
200	3005P-201-ND	0.7
500	3005P-501-ND	0.5
1K	3005P-102-ND	0.5
2K	3005P-202-ND	0.4
5K	3005P-502-ND	0.3
10K	3005P-103-ND	0.3
20K	3005P-203-ND	0.2

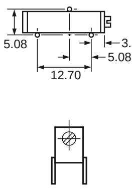
SERIES 3006 3/4" (19.05mm) Rectangular/Multiturn (15) Cermet/Industrial/Sealed



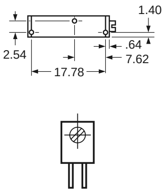
3006P



3006W



3006Y



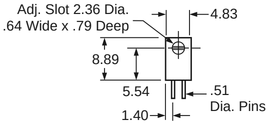
Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms minimum. **Adjustment Angle:** 15 turns nominal. **Power Rating** (400 volts max.): 70°C – 0.75 watt; 150°C – 0 watt. **Temperature Range:** –55°C to +125°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.75 watt @ 70°C (4% ΔTR). **Rotational Life:** 200 cycles (3% ΔTR; CRV, 1% or 1 ohm, whichever is greater). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

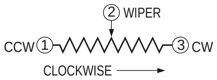
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3006P-101-ND*	3006W-101-ND	3006Y-101-ND
200	3006P-201-ND*	3006W-201-ND	3006Y-201-ND
500	3006P-501-ND*	3006W-501-ND	3006Y-501-ND
1K	3006P-102-ND*	3006W-102-ND	3006Y-102-ND
2K	3006P-202-ND*	3006W-202-ND	3006Y-202-ND
5K	3006P-502-ND*	3006W-502-ND	3006Y-502-ND
10K	3006P-103-ND*	3006W-103-ND	3006Y-103-ND
20K	3006P-203-ND*	3006W-203-ND	3006Y-203-ND
25K	3006P-253-ND*	3006W-253-ND	3006Y-253-ND
50K	3006P-503-ND*	3006W-503-ND	3006Y-503-ND
100K	3006P-104-ND*	3006W-104-ND	3006Y-104-ND
200K	3006P-204-ND*	3006W-204-ND	3006Y-204-ND
250K	3006P-254-ND	3006W-254-ND	3006Y-254-ND
500K	3006P-504-ND*	3006W-504-ND	3006Y-504-ND
1M	3006P-105-ND*	3006W-105-ND	3006Y-105-ND
2M	3006P-205-ND*	3006W-205-ND	3006Y-205-ND

Series	Pricing 1	10	50
3006P	1.73	15.75	67.73
3006W/3006Y	1.87	17.00	73.10

* **3006P-KIT-ND** ***Digi-Key® Series 3006 Potentiometers Kit***
10 each of values denoted (150 total pieces). Notebook style storage case & bin storage guide included **$159.00**

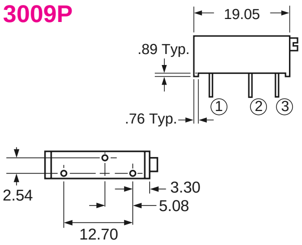
SERIES 3009 3/4" (19.05mm) Rectangular/Multiturn (15) Cermet/Industrial/Sealed



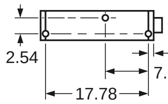


Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms minimum. **Adjustment Travel:** 15 turns nominal.**Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.75 watt @ 70°C (4% ΔTR). **Rotational Life:** 200 cycles (3% ΔTR; CRV, 1% or 1 ohm, whichever is greater). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

3009P



3009Y

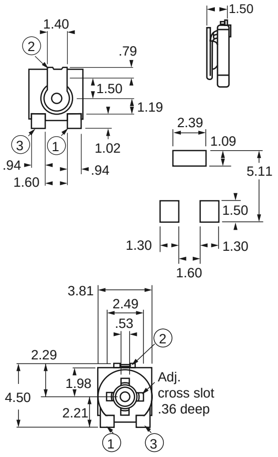


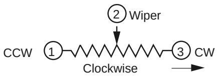
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.
100	3009P-101-ND	3009Y-101-ND
200	3009P-201-ND	3009Y-201-ND
500	3009P-501-ND	3009Y-501-ND
1K	3009P-102-ND	3009Y-102-ND
2K	3009P-202-ND	3009Y-202-ND
5K	3009P-502-ND	3009Y-502-ND
10K	3009P-103-ND	3009Y-103-ND
20K	3009P-203-ND	3009Y-203-ND
25K	3009P-253-ND	3009Y-253-ND
50K	3009P-503-ND	3009Y-503-ND
100K	3009P-104-ND	3009Y-104-ND
200K	3009P-204-ND	3009Y-204-ND
500K	3009P-504-ND	3009Y-504-ND
1M	3009P-105-ND	3009Y-105-ND

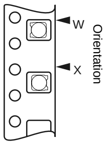
Series	Pricing 1	10	50
3009P/3009Y	2.72	24.75	106.43

SERIES 3364 SMD 4mm Square/Single-Turn Cermet/Industrial/Open Frame

3364W and X







Cross-slot rotor designs suitable for automatic adjustment equipment. Supplied in 12mm embossed tape, compatible with automatic pick-and-place assembly equipment . Rear adjust versions available. **Resistance Tolerance:** ±25% std. **Adjustment Angle:** 260°±20°. **Power Rating** (50 volts max.): 70°C — 0.2 watt. **Temperature Range:** -40°C to +100°C. **Temperature Coefficient:** ±250ppm/°C. **Load Life:** 1,000 hours 0.2 watt @ 70°C (5% ΔTR). **Rotational Life:** 20 cycles (15% ΔTR). **Torque:** 20 to 200g-cm. **Mechanical Angle:** Continuous.

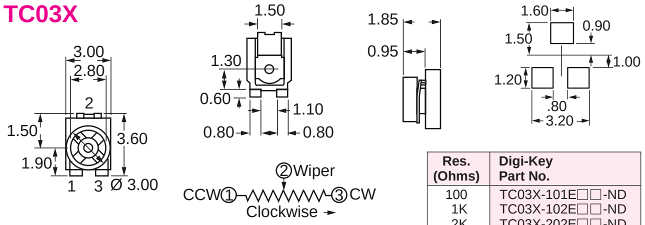
Res. (Ohms)	Digi-Key* Part No.	Digi-Key Part No.
500	3364W-501E□□-ND	3364X-501E□□-ND
1K	3364W-102E□□-ND	3364X-102E□□-ND
2K	3364W-202E□□-ND	3364X-202E□□-ND
5K	3364W-502E□□-ND	3364X-502E□□-ND
10K	3364W-103E□□-ND	3364X-103E□□-ND
20K	3364W-203E□□-ND	3364X-203E□□-ND
50K	3364W-503E□□-ND	3364X-503E□□-ND
100K	3364W-104E□□-ND	3364X-104E□□-ND
200K	3364W-204E□□-ND	3364X-204E□□-ND
500K	3364W-504E□□-ND	3364X-504E□□-ND
1M	3364W-105E□□-ND	3364X-105E□□-ND

Series	Part No.	Cut Tape Pricing 5	100	Part No.	Tape & Reel Pricing 1,000
3364W/3364X	Add "CT"-ND	4.23	56.55	Add "TR"-ND	321.00

* **3364W-KIT-ND** ***Digi-Key® Series 3364W Trimmer Potentiometers Kit*** 5 each of all values (55 total pieces) **$35.95**

SERIES TC03 Surface Mount 3mm Single-Turn Top Adjust Cermet

TC03X



Resistance Tolerance: ±25%. **Adjustment Angle:** 270°. **Power Rating:** .1 watt. **Temperature Range:** -40°C to +85°C. **Temperature Coefficient:** ±250ppm/°C. **Rotational Life:** 20 turns. **Rotational Torque:** 20-200g-cm max.

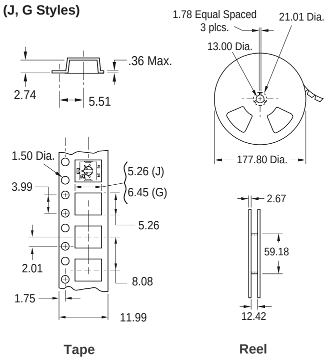
Res. (Ohms)	Digi-Key Part No.
100	TC03X-101E□□-ND
1K	TC03X-102E□□-ND
2K	TC03X-202E□□-ND
5K	TC03X-502E□□-ND
10K	TC03X-103E□□-ND
20K	TC03X-203E□□-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 2,000
TC03X	Add "CT-ND"	.20	1.65	14.40	Add "TR-ND"	100.00/M

Trimmer Potentiometers

SERIES 3314 SMD 4mm Square/Single-Turn Cermet/Industrial/Sealed

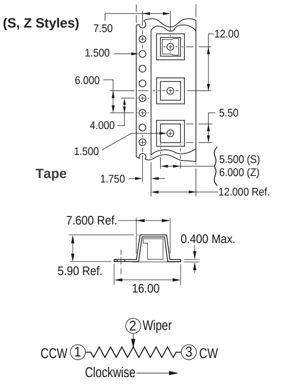
(J, G Styles)



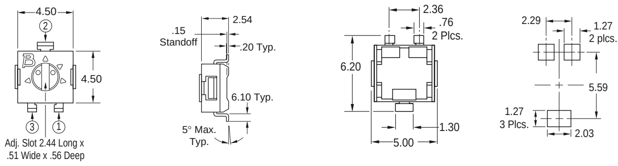
Tape

Reel

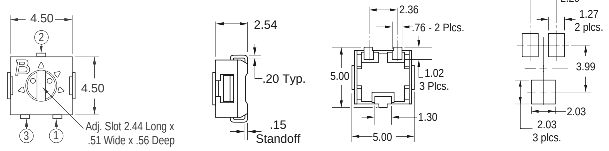
(S, Z Styles)



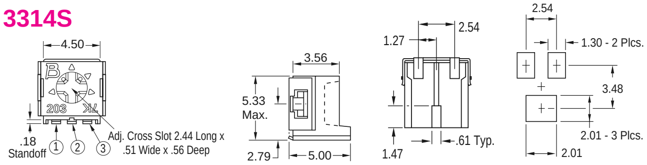
3314G



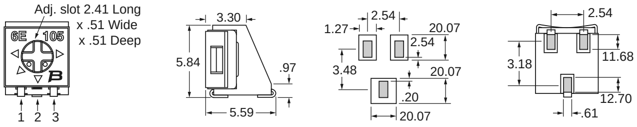
3314J



3314S



3314Z



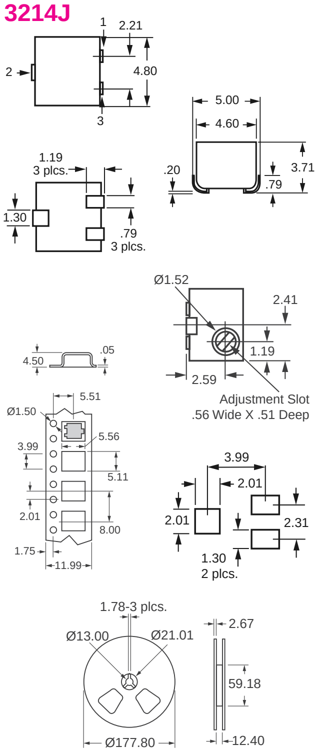
• Compatible with all surface mount soldering processes. • Very low CRV — 1%. • Standoffs facilitate boardwashing and mechanical stability. **Resistance Tolerance:** ±20% std. **Insulation Resistance:** 500vdc. 100 megohms min. **Adjustment Angle:** 210° nom. **Soldering Heat:** 260°C, 10 seconds, TRS ±1%. **Power Rating** (300 volts max.): 70°C — 0.25 watt; 125°C — 0 watt. **Temperature Range:** –55°C to +125°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** (@ 70°C Rated Power 1,000 hours) TRS ±3%. **Rotational Life:** 100 cycles TRS ±3%. **Mechanical Angle:** 240° nom. **Torque:** 180 g-cm. typical. **Stop Strength:** 300 g-cm. typical.

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3314G-101E□□-ND	3314J-101E□□-ND	—	3314Z-101E□□-ND
200	3314G-201E□□-ND	3314J-201E□□-ND	—	3314Z-201E□□-ND
500	3314G-501E□□-ND	3314J-501E□□-ND	—	3314Z-501E□□-ND
1K	3314G-102E□□-ND	3314J-102E□□-ND	—	3314Z-102E□□-ND
2K	3314G-202E□□-ND	3314J-202E□□-ND	—	3314Z-202E□□-ND
5K	3314G-502E□□-ND	3314J-502E□□-ND	3314S-502E□□-ND	3314Z-502E□□-ND
10K	3314G-103E□□-ND	3314J-103E□□-ND	—	3314Z-103E□□-ND
20K	3314G-203E□□-ND	3314J-203E□□-ND	—	3314Z-203E□□-ND
25K	3314G-253E□□-ND	3314J-253E□□-ND	—	3314Z-253E□□-ND
50K	3314G-503E□□-ND	3314J-503E□□-ND	—	3314Z-503E□□-ND
100K	3314G-104E□□-ND	3314J-104E□□-ND	—	3314Z-104E□□-ND
200K	3314G-204E□□-ND	3314J-204E□□-ND	3314S-204E□□-ND	3314Z-204E□□-ND
250K	3314G-254E□□-ND	3314J-254E□□-ND	3314S-254E□□-ND	3314Z-254E□□-ND
500K	3314G-504E□□-ND	3314J-504E□□-ND	3314S-504E□□-ND	3314Z-504E□□-ND
1M	3314G-105E□□-ND	3314J-105E□□-ND	—	3314Z-105E□□-ND
2M	3314G-205E□□-ND	3314J-205E□□-ND	3314S-205E□□-ND	3314Z-205E□□-ND

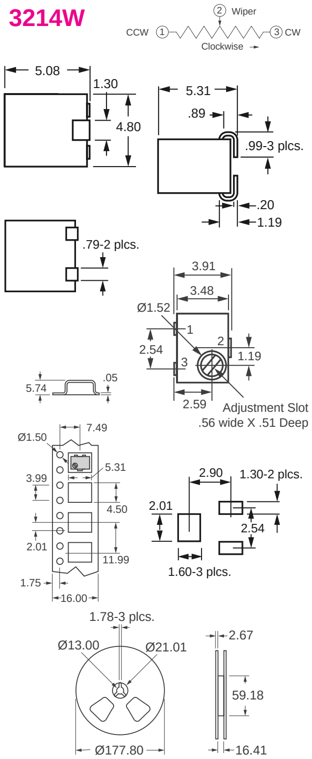
Series	Part No.	Cut Tape Pricing 5	100	Part No.	Tape & Reel Pricing 200	500
3314G/3314J	Add “CT-ND”	9.00	156.00	Add “TR-ND”	—	489.00
3314S	Add “CT-ND”	9.90	170.28	—	—	—
3314Z	Add “CT-ND”	9.90	170.28	Add “TR-ND”	244.20	—

SERIES 3214 Surface Mount 4mm Square/ Multi-Turn Cermet/Industrial/Sealed

3214J



3214W



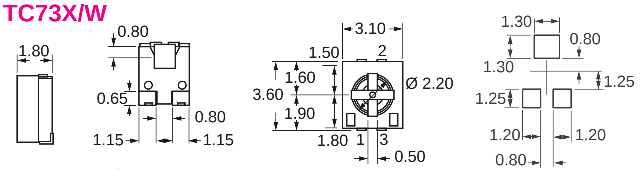
• Sealed to withstand board wash processing • Pick and place centering design, with flush adjustment • Patent #5047746 advanced drive/wiper mechanism. **Resistance Tolerance:** ±10% std. **Absolute Minimum Resistance:** 1% or 2.0 ohms (whichever is greater). **Contact Resistance Variation:** 3% or 3 ohms max. **Resolution:** Essentially Infinite. **Insulation Resistance:** 500 vdc., 100 megohms min. **Dielectric Strength: Sea Level:** 600 vac (1 minute). **Adjustment Angle:** 5 turns nom. **Power Rating (300 volts max.):** 85°C: 0.25 watt, 150°C: 0 watt. **Temperature Range:** -65°C to +150°C. **Temperature Coefficient:** ±100ppm/°C. **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10 megohms. **Vibration:** 20G TRS ±1%; VRS ±1%. **Shock:** 100G TRS ±1%; VRS ±1%. **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3 ohms or 3% (whichever is greater). **Rotational Cycling:** 200 cycles, TRS 3 ohms or 3% (whichever is greater). **Thermal Shock:** 5 cycles, TRS ±2%; VRS ±1%. **Mechanical Stop:** wiper idles. **Torque:** 180g-cm max. **Weight:** Approximately 0.01 oz. **Marking:** Manufacturer’s code, resistance code and date code. **Solderability:** Per MIL-STD-202, Method 208. **Wiper:** Set at 50% nominal. **Flammability:** UL94V0

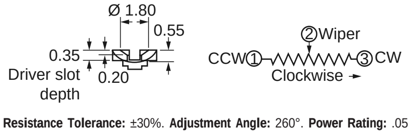
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.
100	3214J-101E□□-ND	3214W-101E□□-ND
200	3214J-201E□□-ND	3214W-201E□□-ND
500	3214J-501E□□-ND	3214W-501E□□-ND
1K	3214J-102E□□-ND	3214W-102E□□-ND
2K	3214J-202E□□-ND	3214W-202E□□-ND
5K	3214J-502E□□-ND	3214W-502E□□-ND
10K	3214J-103E□□-ND	3214W-103E□□-ND
20K	3214J-203E□□-ND	3214W-203E□□-ND
50K	3214J-503E□□-ND	3214W-503E□□-ND
100K	3214J-104E□□-ND	3214W-104E□□-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 250	500
3214J	Add “CT-ND”	3.22	27.60	239.20	Add “TR-ND”	—	750.00
3214W	Add “CT-ND”	3.22	27.60	239.20	Add “TR-ND”	414.00	750.00

SERIES TC73 Surface Mount 3mm Single-Turn Top Adjust Carbon

TC73X/W





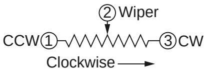
Resistance Tolerance: ±30%. **Adjustment Angle:** 260°. **Power Rating:** .05 watt. **Temperature Range:** -25°C to +85°C. **Temperature Coefficient:** ±250ppm/°C. **Rotational Life:** 20 turns. **Rotational Torque:** 10-150g-cm max.

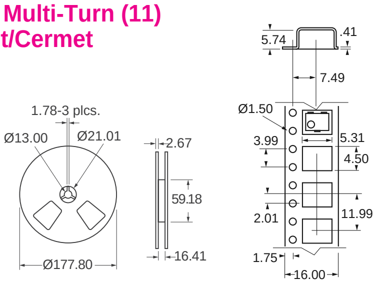
Res. (Ohms)	Digi-Key Part No.
500	TC73X-501E□□-ND
1K	TC73X-102E□□-ND
2K	TC73X-202E□□-ND
5K	TC73X-502E□□-ND
10K	TC73X-103E□□-ND
20K	TC73X-203E□□-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 2,000
TC73X	Add “CT-ND”	.20	1.65	14.40	Add “TR-ND”	100.00/M

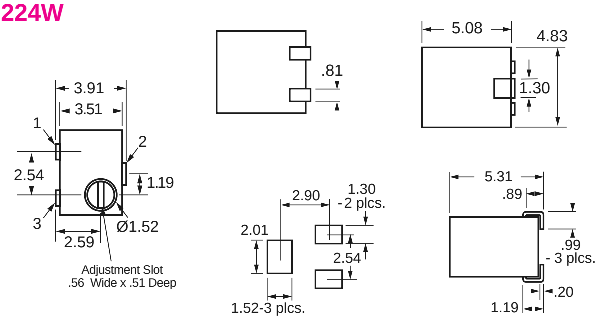
Trimmer Potentiometers

SERIES 3224 SMT 4mm Multi-Turn (11) Top Adjust/Cermet





3224W



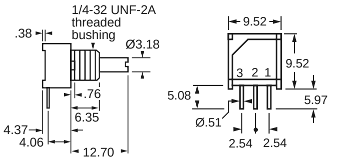
Resistance Tolerance: ±10% standard. **Absolute Minimum Resistance:** 1% or 2.0 ohms (whichever is greater). **Contact Resistance Variation:** 1% or 3 ohms maximum. **Resolution:** Essentially Infinite. **Insulation Resistance:** 500 vdc., 100 megohms minimum. **Dielectric Strength: Sea Level:** 600 vac (1 minute), **Adjustment Angle:** 11 turns nominal. **Power Rating (300 volts max.):** 85°C: 0.25 watt, 150°C: 0 watt. **Temperature Range:** –65°C to +150°C. **Temperature Coefficient:** ±100ppm/°C. **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10 megohms. **Vibration:** 20G TRS ±1%, VRS ±1%. **Shock:** 100G TRS ±1%, VRS ±1%. **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3 ohms or 3% (whichever is greater). **Rotational Cycling:** 200 cycles, TRS 3 ohms or 3% (whichever is greater). **Thermal Shock:** 5 cycles, TRS ±2%, VRS ±1%. **Mechanical Stop:** Wiper idles. **Torque:** 180g-cm maximum. **Weight:** Approximately 0.01 oz. **Marking:** Manufacturer's code, resistance code and date code.

Res. (Ohms)	Digi-Key Part No.
2K	3224W-202E☐☐-ND
5K	3224W-502E☐☐-ND
10K	3224W-103E☐☐-ND
20K	3224W-203E☐☐-ND

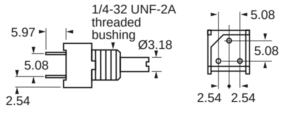
Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 250
3224W	Add "CT-ND"	5.22	44.70	387.40	Add "TR-ND"	670.50

SERIES 3310 9mm Square Panel Control Conductive Plastic, Sealed

3310C



3310Y



- Conductive plastic
- Linear
- PC board and bushing mount
- Plastic bushing and plastic shaft
- Withstands typical industrial washing processes
- Compact package saves board and panel space

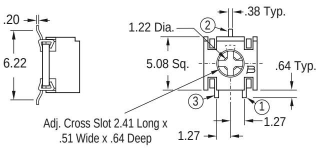
Standard Resistance Range (Linear): 1K ohms to 1 megohm **Total Resistance Tolerance (Linear Tapers):** ±20% **Independent LInearity:** ±5% **Absolute Minimum Resistance:** 2 ohms maximum **Effective Electrical Angle:** 270° ±15° **Contact Resistance Variation:** 1% or 1 ohm (whichever is greater) **Dielectric Withstanding Voltage: (Sea Level)** 900 VAC minimum; **(70,000 Feet)** 350 VAC minimum **Insulation Resistance:** 1,000 megohms minimum **Power Rating @ 70°C:** (Derate to 0 at 125°C - Voltage limited by power dissipation or 200 VAC, whichever is less) 0.25 watts **Stop Strength:** 5.65 nominal **Mechanical Angle:** 300° nominal **Torque (Running):** 3.53 nominal.

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.
1K	3310C-1-102-ND	3310Y-1-102-ND
2K	3310C-1-202-ND	3310Y-1-202-ND
5K	3310C-1-502-ND	3310Y-1-502-ND
10K	3310C-1-103-ND	3310Y-1-103-ND
20K	3310C-1-203-ND	3310Y-1-203-ND
50K	3310C-1-503-ND	3310Y-1-503-ND
100K	3310C-1-104-ND	3310Y-1-104-ND
200K	3310C-1-204-ND	3310Y-1-204-ND
500K	3310C-1-504-ND	3310Y-1-504-ND
1M	3310C-1-105-ND	3310Y-1-105-ND

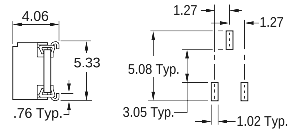
Series	Pricing 1	10	50
3310C/3310Y	2.56	22.63	94.90

SERIES 3335 SMD 5mm Square/Single-Turn Cermet/Industrial/Sealed

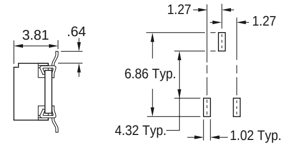
Common Dimensions 3335A, B



3335A

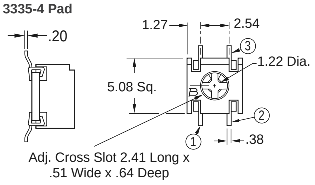


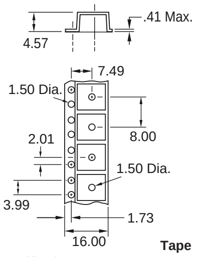
3335B



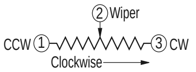
Common Dimensions 3335W, X

3335-4 Pad

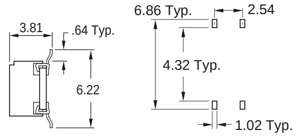




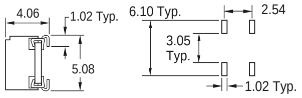
Meets EIA specification 481



3335W



3335X



- Available in 3 and 4 pad SMD design
- Auto adjust rotor design, packaged in 16mm wide (7' reel) embossed tape, compatible with automatic placement equipment
- Rugged lead frame construction
- Multi-wire hoetip wiper
- Recommended for reflow processing only.

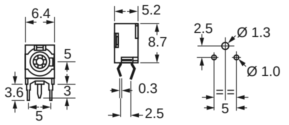
Resistance Tolerance: ±20% standard. **Insulation Resistance:** 500vdc. 1,000 megohms minimum. **Adjustment Travel:** 240° nominal. **Maximum Exposure** (Temp./Time): +215°C/3 minimum. **Power Rating** (100 volts max.): 85°C — 0.2 watt; 150°C — 0 watt. **Temperature Range:** -55°C to +150°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.2 watt @ 85°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Mechanical Angle:** 270° nominal. **Torque:** 3.0 oz-in. maximum. **Stop Strength:** 4.0 oz-in. minimum.

Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	—	3335B-101ECT-ND	3335W-101ECT-ND	3335X-101ECT-ND
200	—	—	—	3335X-201ECT-ND
500	—	—	—	3335X-501ECT-ND
1K	—	—	3335W-102ECT-ND	3335X-102ECT-ND
2K	—	3335B-202ECT-ND	3335W-202ECT-ND	—
10K	—	—	—	3335X-103ECT-ND
20K	3335A-203ECT-ND	3335B-203ECT-ND	—	—
25K	—	—	3335W-253ECT-ND	3335X-253ECT-ND
50K	3335A-503ECT-ND	3335B-503ECT-ND	—	3335X-503ECT-ND
200K	3335A-204ECT-ND	3335B-204ECT-ND	—	—
250K	—	—	—	3335X-254ECT-ND
500K	3335A-504ECT-ND	3335B-504ECT-ND	—	—

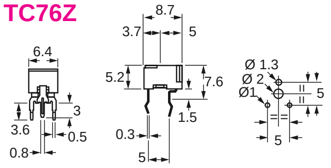
Series	Pricing 5
3335A / 3335B / 3335W / 3335X	12.00

SERIES TC76 6mm Single-Turn Carbon

TC76B



TC76Z



Resistance Tolerance: ±30% **Adjustment Angle:** 280° **Power Rating:** .1 watt **Temperature Range:** -25°C to +70°C **Temperature Coefficient:** ±300ppm/°C **Rotational Life:** 100 turns **Rotational Torque:** .2 to 3 Ncm maximum

Series	Pricing 1	10	100
TC76B	.20	1.65	14.40
TC76Z	.20	1.65	14.40

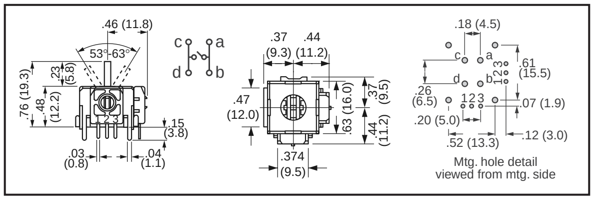
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.
100	TC76B-101-ND	—
1K	—	TC76Z-102-ND
2K	TC76B-202-ND	TC76Z-202-ND
5K	TC76B-502-ND	TC76Z-502-ND
10K	TC76B-103-ND	TC76Z-103-ND
20K	TC76B-203-ND	TC76Z-203-ND
50K	YC76B-503-ND	TC76Z-503-ND

CTS Two Axis, Ministick Controller with Optional Momentary Switch

Series 252

SPECIFICATIONS: **Controller without Switch:** **Resistance Tolerance:** Standard: ±20% **Resistance Taper:** Linear ±5% **Insulation Resistance:** 100MΩ min @ 250 VDC **Rotational Torque:** 153 ±102 gf-cm **Power Rating:** 0.01 watt @50°C, 0.003 watt @ 70°C **Maximum Operating Voltage:** Maximum 50 VAC or 5 VDC **Angle of Rotation:** 60° **Life:** 1,000,000 cycles **Controller with Momentary Switch:** **Contact Resistance:** 100 mΩ max. **Dielectric Strength:** 250 VAC 50/60 Hz for 1 minute **Insulation Resistance:** 100 MΩ min @ 100 VDC **Operational Force:** 520 ±260 gf **Power Rating:** 12 VDC, 50 Milliamps **Travel:** 0.5 +0.5 -0.4mm **Life:** 100,000 cycles

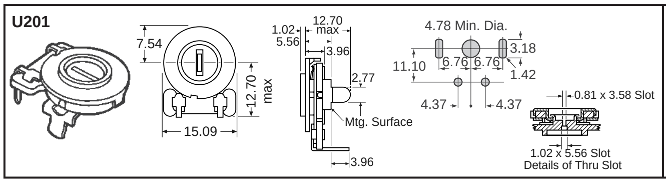
Ohms	Description	Digi-Key Part No.	Price Each 1	10	50	100	250	CTS Part No.
10K	Controller without Switch	252A103B60NA-ND	5.74	5.33	5.18	4.15	3.32	252A103B60NA
10K	Controller with Switch	252A103B60NB-ND	6.09	5.66	5.53	4.43	3.54	252A103B60NB
100K	Controller without Switch	252A104B60NA-ND	5.74	5.33	5.18	4.15	3.32	252A104B60NA
100K	Controller with Switch	252A104B60NB-ND	6.09	5.66	5.53	4.43	3.54	252A104B60NB



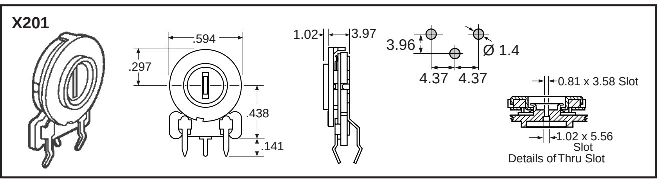
Miniature 15.08mm Trimmer Potentiometers

Series 201

U201



X201



Features:

- Miniature size — knob 15.08mm diameter
- Rim to guide screwdriver
- Printed circuit mounting with knob parallel or perpendicular to printed circuit board
- Wide resistance range
- Knob slotted for front or rear screwdriver adjustment
- Reliable CTS composition resistance element
- Press fit self-supporting mounting

Electrical and Mechanical Specifications:

• **Resistance Range:** 100Ω through 1 Megohm • **Resistance Tolerance:** ±20% • **Power Rating, Watts:** Below 5000Ω — 1/4 watt @ 40°C; 5000Ω and above — 1/4 watt @ 55°C • **Voltage Rating:** 350 VDC • **Resistance Tapers:** Linear • **Adjusting Knob Information:** Blue nylon knob, 15.08mm diameter, slotted for front or rear screwdriver adjustment with rim to guide screwdriver. • **Angle of Rotation:** Total rotation — 260° ± 5°

Res. Ohms.	Digi-Key Part No.* Laydown Version	Digi-Key Part No.** Standup Version	Price Each 1	10	100	500	1,000	CTS Part No. Laydown Version	CTS Part No. Standup Version
100	201UR101B-ND	201XR101B-ND	.50	.46	.42	.33	.27	201UR101B	201XR101B
250	201UR251B-ND	201XR251B-ND	.50	.46	.42	.33	.27	201UR251B	201XR251B
500	201UR501B-ND	201XR501B-ND	.50	.46	.42	.33	.27	201UR501B	201XR501B
1K	201UR102B-ND	201XR102B-ND	.50	.46	.42	.33	.27	201UR102B	201XR102B
2.5K	201UR252B-ND	201XR252B-ND	.50	.46	.42	.33	.27	201UR252B	201XR252B
5K	201UR502B-ND	201XR502B-ND	.50	.46	.42	.33	.27	201UR502B	201XR502B
10K	201UR103B-ND	201XR103B-ND	.50	.46	.42	.33	.27	201UR103B	201XR103B
25K	201UR253B-ND	201XR253B-ND	.50	.46	.42	.33	.27	201UR253B	201XR253B
50K	201UR503B-ND	201XR503B-ND	.50	.46	.42	.33	.27	201UR503B	201XR503B
100K	201UR104B-ND	201XR104B-ND	.50	.46	.42	.33	.27	201UR104B	201XR104B
250K	201UR254B-ND	201XR254B-ND	.50	.46	.42	.33	.27	201UR254B	201XR254B
500K	201UR504B-ND	201XR504B-ND	.50	.46	.42	.33	.27	201UR504B	201XR504B
1M	201UR105B-ND	201XR105B-ND	.50	.46	.42	.33	.27	201UR105B	201XR105B

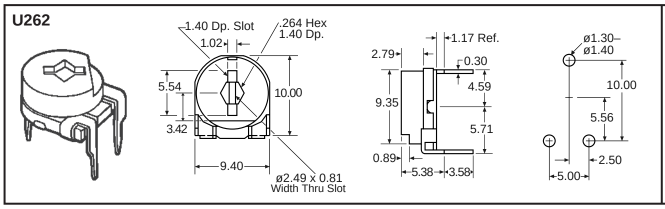
* **201U-KIT-ND** ***Digi-Key® Series 201 Potentiometer Kit (Q656225)*** - 5 each of 13 values **$29.95**

** **201X-KIT-ND** ***Digi-Key® Series 201 Potentiometer Kit (Q656235)*** - 5 each of 13 values **$29.95**

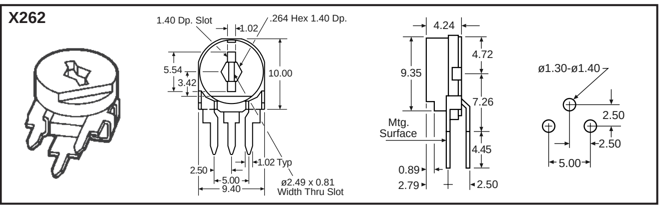
Miniature 10mm Trimmer Potentiometers

Series 262

U262



X262



Features:

- Miniature size
- Adjustment knob slotted for front or rear screwdriver adjustment
- P.C. mounting with knob parallel or perpendicular to printed circuit board
- Low height profile
- Wide resistance range
- Reliable screened CTS composition element

Electrical and Mechanical Specifications:

Resistance Range: Standard — 500 ohms through 1 megohm • **Resistance Tolerance:** Standard – ±20% • **Power Rating Watts:** 0.15 watts @ 40°C • **Voltage Rating:** Operating maximum — 350 VDC. • **Resistance Tapers:** Linear • **Adjustment Knob:** Color coded nylon knob with hex hole for top adjustment plus slot for either top or bottom screwdriver adjustment. • **Angle of Rotation:** Total rotation — 265° ±5% • **Rotational Torque:** .3 to 5 inch ounces • **Stop Strength:** 16 inch ounces

Res. Ohms.	Color	Digi-Key Part No.* Laydown Version	Digi-Key Part No.** Standup Version	Price Each 1	10	100	500	1,000	CTS Part No. Laydown Version	CTS Part No. Standup Version
500	Green	U262R501B-ND	X262R501B-ND	.51	.48	.43	.34	.28	U262R501B	X262R501B
1K	Yellow	U262R102B-ND	X262R102B-ND	.51	.48	.43	.34	.28	U262R102B	X262R102B
2.5K	Red	U262R252B-ND	X262R252B-ND	.51	.48	.43	.34	.28	U262R252B	X262R252B
5K	Blue	U262R502B-ND	X262R502B-ND	.51	.48	.43	.34	.28	U262R502B	X262R502B
10K	White	U262R103B-ND	X262R103B-ND	.51	.48	.43	.34	.28	U262R103B	X262R103B
25K	Black	U262R253B-ND	X262R253B-ND	.51	.48	.43	.34	.28	U262R253B	X262R253B
50K	Orange	U262R503B-ND	X262R503B-ND	.51	.48	.43	.34	.28	U262R503B	X262R503B
100K	Gray	U262R104B-ND	X262R104B-ND	.51	.48	.43	.34	.28	U262R104B	X262R104B
250K	Violet	U262R254B-ND	X262R254B-ND	.51	.48	.43	.34	.28	U262R254B	X262R254B
500K	Brown	U262R504B-ND	X262R504B-ND	.51	.48	.43	.34	.28	U262R504B	X262R504B
1M	Lt. Blue	U262R105B-ND	X262R105B-ND	.51	.48	.43	.34	.28	U262R105B	X262R105B

* **U262-KIT-ND** ***Digi-Key® Series 262 Potentiometer Kit (Q656346)*** - 5 each of 11 values **$27.95**

** **X262-KIT-ND** ***Digi-Key® Series 262 Potentiometer Kit (Q656436)*** - 5 each of 11 values **$27.95**

Stock Pot™ Potentiometers 23.81mm Diameter

Series 450

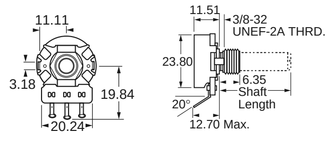


Fig. 1 — SD Slot

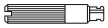


Fig. 2 — Flat

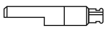
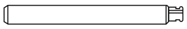


Fig. 3 — Round



Features: • Off the shelf availability • Wide Resistance Range • Available with three shaft styles: knurled & slotted, flatted or round • Economical in limited volume applications

Electrical and Mechanical Specifications: • **Resistance Range:** 500Ω through 500KΩ • **Resistance Tolerance:** ±20% • **Power Rating, Watt:** Through 10KΩ, 1/2 watt; above 10KΩ through 100KΩ, 1/3 watt; above 100KΩ, 1/4 watt • **Voltage Rating:** Bushing to terminals: High pot test, one minute - 1080 VAC • **Shaft Information:** Diameter: 6.35mm (Dia. over knurl 6.10mm – 6.25mm) • **Angle of Rotation:** Total rotation – 300° ±5°; Effective Rotation approximately 300° • **Bushing Information:** Material - Diecast zinc; Diameter – EIA st. 3/8" - 32 UNEF-2A thread; Length - 6.35mm ± .40mm • **Terminal Information:** Solder lug, formed to rear • **Locating Lug:** Left side, terminals down

Mounting hardware included.

To determine shaft length, use appropriate variable (1-8) shown below.

Shaft Length (mm)	12.70	15.88	19.05	22.23	25.40	50.80
Figure 1 - Slot	1	2	3	4	5	—
Figure 2 - Flat	—	—	—	6	7	—
Figure 3 - Round	—	—	—	—	—	8

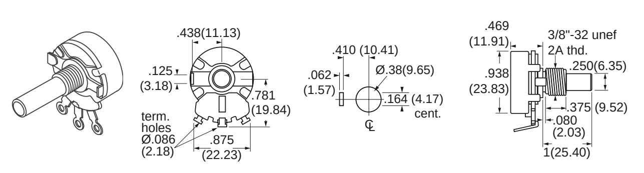
Res. Ohms	Digi-Key Part No. *	Price Each 1	10	100	250	500	1,000
500	450D501-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
1K	450D102-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
2.5K	450D252-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
5K	450D502-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
10K	450D103-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
25K	450D253-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
50K	450D503-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
100K	450D104-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
250K	450D254-□-ND	3.18	2.87	2.44	2.02	1.70	1.41
500K	450D504-□-ND	3.18	2.87	2.44	2.02	1.70	1.41

***For complete part number, substitute corresponding variable (from chart above) for □.**

CTS Wirewound Potentiometers - 5 Watt

Series 026

SPECIFICATIONS: Resistance Range: 5Ω through 25KΩ **Resistance Tolerance:** ±20% **Power Rating Watts:** 5 Watts @ 25°C Derated to No Load @ 105°C **Voltage Rating:** Operating Max. 500VDC **Shaft Information:** 1" FMS x .250" (25.40mm FMS x 6.35mm) Diameter, Metal, Plain Round **Angle of Rotation:** 300° ±5° **Bushing Information:** Diameter: EIA Std. 3/8"-32, UNEF-2A Thread Length: 3/8" ± 1/64" (9.52mm ± .40mm) **Terminal Information:** Solder Lug, Formed to Rear **Locating Lug:** Left Side, Terminals Down



Ohms	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
5	CT2150-ND	3.61	3.36	2.79	2.52	026TB32R5AOB1A1
10	CT2151-ND*	3.61	3.36	2.79	2.52	026TB32R100B1A1
25	CT2152-ND	3.61	3.36	2.79	2.52	026TB32R250B1A1
50	CT2153-ND*	3.61	3.36	2.79	2.52	026TB32R500B1A1
100	CT2154-ND*	3.61	3.36	2.79	2.52	026TB32R101B1A1
250	CT2155-ND	3.61	3.36	2.79	2.52	026TB32R251B1A1
500	CT2156-ND*	3.61	3.36	2.79	2.52	026TB32R501B1A1
1K	CT2157-ND*	3.61	3.36	2.79	2.52	026TB32R102B1A1
5K	CT2158-ND	3.61	3.36	2.79	2.52	026TB32R502B1A1
10K	CT2159-ND*	3.61	3.36	2.79	2.52	026TB32R103B1A1
25K	CT2160-ND*	3.61	3.36	2.79	2.52	026TB32R253B1A1

* **26-KIT-ND** ***Digi-Key® Series 026 Potentiometer Kit (Q656163)*** - 5 each of 7 values **$99.95**

Carbon Potentiometers - 1/4 Watt

Series 270

Fig. 1

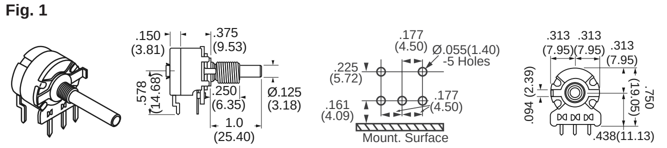
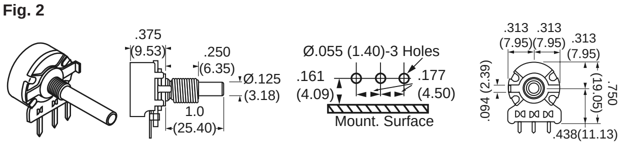


Fig. 2



SPECIFICATIONS:
Resistance Range: 500 ohms through 1 megohm
Resistance Tolerance: ±20%
Power Rating Watts: 1/4 Watt through 100K, 1/5 Watt above 100K
Voltage Rating: Operating Maximum: 500 VDC
Mechanical Rotation: 300° ±5°
Available Power Switch: Type: Rotary Rating: 3A @ 125VAC (UL Approved)
Effective Rotation: Without Switch 300° (Approx.), with Switch 290° (Approx.)
Resistance Taper: Linear, Logarithmic
Locating Lug: Left Side, Terminals Down
Bushing Information: Length: 1/4" (6.35mm), Thread Size: 1/4"-32, diameter: 1/4" (6.35mm)
Shaft Information: Length: 1" (25.40mm) including bushing, Diameter: .125" (3.18mm)

Digi-Key Part No.	Price Each 1	10	50	100	250
CT2223-ND - CT2233-ND	3.48	3.24	2.69	2.43	2.16
CT2201-ND - CT2211-ND	2.71	2.52	2.10	1.89	1.68
CT2212-ND - CT2222-ND	3.53	3.28	2.73	2.46	2.19
CT2234-ND - CT2244-ND	2.77	2.58	2.15	1.94	1.72

Linear Taper with Switch Fig. 1			Linear Taper without Switch Fig. 2			Logarithmic Taper with Switch Fig. 1			Logarithmic Taper without Switch Fig. 2		
Ohms	Digi-Key Part No.	CTS Part No.	Ohms	Digi-Key Part No.	CTS Part No.	Ohms	Digi-Key Part No.	CTS Part No.	Ohms	Digi-Key Part No.	CTS Part No.
500	CT2223-ND*	270X232A501B1B1	500	CT2201-ND**	270X232A501B1A1	500	CT2212-ND†	270X232A501B2B1	500	CT2234-ND††	270X232A501B2A1
1K	CT2224-ND*	270X232A102B1B1	1K	CT2202-ND**	270X232A102B1A1	1K	CT2213-ND†	270X232A102B2B1	1K	CT2235-ND††	270X232A102B2A1
2.5K	CT2225-ND	270X232A252B1B1	2.5K	CT2203-ND	270X232A252B1A1	2.5K	CT2214-ND	270X232A252B2B1	2.5K	CT2236-ND	270X232A252B2A1
5K	CT2226-ND	270X232A502B1B1	5K	CT2204-ND	270X232A502B1A1	5K	CT2215-ND	270X232A502B2B1	5K	CT2237-ND	270X232A502B2A1
10K	CT2227-ND*	270X232A103B1B1	10K	CT2205-ND**	270X232A103B1A1	10K	CT2216-ND†	270X232A103B2B1	10K	CT2238-ND††	270X232A103B2A1
25K	CT2228-ND*	270X232A253B1B1	25K	CT2206-ND**	270X232A253B1A1	25K	CT2217-ND†	270X232A253B2B1	25K	CT2239-ND††	270X232A253B2A1
50K	CT2229-ND*	270X232A503B1B1	50K	CT2207-ND**	270X232A503B1A1	50K	CT2218-ND†	270X232A503B2B1	50K	CT2240-ND††	270X232A503B2A1
100K	CT2230-ND*	270X232A104B1B1	100K	CT2208-ND**	270X232A104B1A1	100K	CT2219-ND†	270X232A104B2B1	100K	CT2241-ND††	270X232A104B2A1
250K	CT2231-ND	270X232A254B1B1	250K	CT2209-ND	270X232A254B1A1	250K	CT2220-ND	270X232A254B2B1	250K	CT2242-ND	270X232A254B2A1
500K	CT2232-ND*	270X232A504B1B1	500K	CT2210-ND**	270X232A504B1A1	500K	CT2221-ND†	270X232A504B2B1	500K	CT2243-ND††	270X232A504B2A1
1MEG	CT2233-ND*	270X232A105B1B1	1 MEG	CT2211-ND**	270X232A105B1A1	1 MEG	CT2222-ND†	270X232A105B2B1	1 MEG	CT2244-ND††	270X232A105B2A1

* **270-A-KIT-ND** ***Digi-Key® Series 270 Potentiometer Kit (Q652415)*** - 5 each of 8 values............ **$109.95**
** **270-B-KIT-ND** ***Digi-Key® Series 270 Potentiometer Kit (Q653056)*** - 5 each of 8 values............ **$89.95**
† **270-C-KIT-ND** ***Digi-Key® Series 270 Potentiometer Kit (Q653103)*** - 5 each of 8 values **$109.95**
†† **270-D-KIT-ND** ***Digi-Key® Series 270 Potentiometer Kit (Q655519)*** - 5 each of 8 values............. **$89.95**

Carbon Potentiometers - 1/8 Watt

Series 296

Fig. 1 — Vertical Adjust

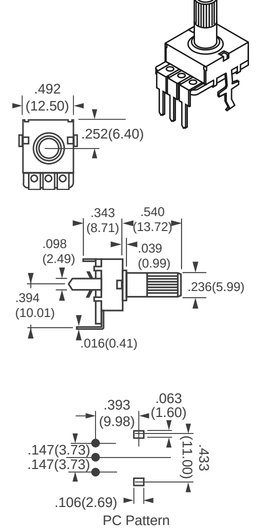
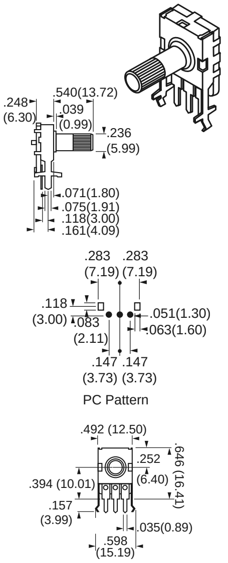


Fig. 2 — Horizontal Adjust



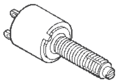
SPECIFICATIONS:

Resistance Range: 500 ohms through 1 megohm. **Resistance tolerance:** ±20%. **Power Rating Watts:** 0.15 Watts @ 40°C derated to no load @ 85°C. **Voltage Rating:** Across End Terminals: 250VDC. **Rotational Torque:** 20-144gcm. **Angle of Rotation:** Total rotation: 300° ±5°, Effective Rotation: 280° (Approx.) **Stops:** 0.57 N-m Minimum Stop Strength. **Shaft Information:** Length: 13.72mm Beyond Cover, Style: Knurled, Diameter: 6mm. **Mounting Information:** P.C. Board Mounting.

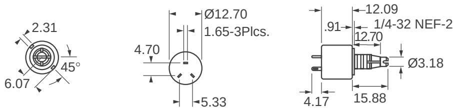
Fig.	Ohms	Description	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1	500	Vertical	CT2261-ND*	1.51	1.26	1.05	.84	296UD501B1N
	1K	Vertical	CT2262-ND*	1.51	1.26	1.05	.84	296UD102B1N
	2.5K	Vertical	CT2263-ND*	1.51	1.26	1.05	.84	296UD252B1N
	5K	Vertical	CT2264-ND*	1.51	1.26	1.05	.84	296UD502B1N
	10K	Vertical	CT2265-ND*	1.51	1.26	1.05	.84	296UD103B1N
	25K	Vertical	CT2266-ND*	1.51	1.26	1.05	.84	296UD253B1N
	50K	Vertical	CT2267-ND*	1.51	1.26	1.05	.84	296UD503B1N
	100K	Vertical	CT2268-ND*	1.51	1.26	1.05	.84	296UD104B1N
	250K	Vertical	CT2269-ND*	1.51	1.26	1.05	.84	296UD254B1N
	500K	Vertical	CT2270-ND*	1.51	1.26	1.05	.84	296UD504B1N
	1MEG	Vertical	CT2271-ND*	1.51	1.26	1.05	.84	296UD105B1N
2	500	Horizontal	CT2250-ND**	1.51	1.26	1.05	.84	296XD501B1N
	1K	Horizontal	CT2251-ND**	1.51	1.26	1.05	.84	296XD102B1N
	2.5K	Horizontal	CT2252-ND**	1.51	1.26	1.05	.84	296XD252B1N
	5K	Horizontal	CT2253-ND**	1.51	1.26	1.05	.84	296XD502B1N
	10K	Horizontal	CT2254-ND**	1.51	1.26	1.05	.84	296XD103B1N
	25K	Horizontal	CT2255-ND**	1.51	1.26	1.05	.84	296XD253B1N
	50K	Horizontal	CT2256-ND**	1.51	1.26	1.05	.84	296XD503B1N
	100K	Horizontal	CT2257-ND**	1.51	1.26	1.05	.84	296XD104B1N
	250K	Horizontal	CT2258-ND**	1.51	1.26	1.05	.84	296XD254B1N
	500K	Horizontal	CT2259-ND**	1.51	1.26	1.05	.84	296XD504B1N
	1MEG	Horizontal	CT2260-ND**	1.51	1.26	1.05	.84	296XD105B1N

* **296U-KIT-ND** ***Digi-Key® Series 296 Potentiometer Kit (Q656135)*** - 5 each of 11 values.................................. **$59.95**
** **296X-KIT-ND** ***Digi-Key® Series 296 Potentiometer Kit (Q656146)*** - 5 each of 11 values.................................. **$59.95**

MIL Style RV6 -
1/2 Watt Carbon Potentiometer

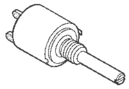


RV6L Series

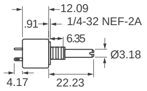


Specifications:

- **Resistance Tolerance:** ±10% through 500K, ±20% from 1 Meg
- **Resistance Taper:** Linear
- **Power Rating:** .5 Watts @ 70°C
- **Dielectric Strength:** 750V RMS
- **Working Voltage:** 350VDC Maximum, but power not to exceed rating
- **Operating Temperature:** -55°C to +120°C
- **Mechanical Rotation:** 295° QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft



RV6N Series



Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500)	102 (1K) 252 (2.5K) 502 (5K)	103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K)	105 (1Meg) 505 (5Meg)

Resistance Range (Ohms)	Digi-Key* Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-5Meg	RV6L □□□ C-ND	9.26	8.55	6.42	4.14	3.80	RV6LAYSA(Code)A
100-5Meg	RV6N □□□ C-ND	8.32	7.68	5.76	3.72	3.41	RV6NAYSD(Code)A

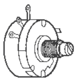
* For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

MIL Style RV4 (Linear Taper), KA (Logarithmic Taper) and KU (High Life* Linear Taper)
2 Watt Carbon Potentiometer

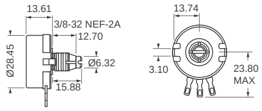
Specifications:

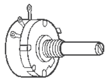
- **Resistance Tolerance:** ±10% through 500K, ±20% from 1 Meg
- **Power Rating:** 2 Watts @ 70°C, Derate to 0 Watt @ 120°C
- **Dielectric Strength:** 900V RMS
- **Working Voltage:** 500 volts, but power not to exceed rating
- **Operating Temperature:** -65°C to +125°C
- **Mechanical Rotation:** 314° QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft.

* *Rotational Life: 1 million cycles*

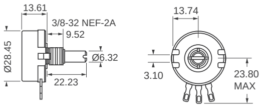


RV4L Series





RV4N Series
KA/KU Series



RV4L SERIES (LINEAR)

Code (Value)	Code (Value)	Code (Value)	Code (Value)
500 (50) 101 (100) 251 (250) 501 (500)	102 (1K) 252 (2.5K) 502 (5K) 103 (10K)	153 (15K) 253 (25K) 353 (35K) 503 (50K)	104 (100K) 254 (250K) 504(500K) 105 (1 Meg)

KA SERIES (LOG TAPER)

Code (Value)	Code (Value)
502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K)

RV4N SERIES (LINEAR)

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
500 (50) 101 (100) 151 (150) 251 (250)	501 (500) 102 (1K) 152 (1.5K) 252 (2.5K)	502 (5K) 752 (7.5K) 103 (10k) 153 (15K)	253 (25K) 353 (35K) 503 (50K) 104 (100K)	254 (250K) 504 (500K) 105 (1 Meg)

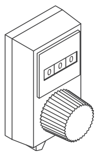
Resistance Range (Ohms)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
50-1Meg	RV4L □□□ C-ND	6.53	5.90	5.02	4.17	3.64	RV4LAYSA(Code)A
50-1Meg	RV4N □□□ C-ND	6.24	5.64	4.80	3.99	3.48	RV4NAYSD(Code)A
5K-500K	KA □□□ 1S28-ND *NEW!*	8.94	8.09	6.88	5.72	4.99	KA(Code)1S28
5K	KU5021S28-HL-ND *NEW!*	9.00	8.14	6.92	5.75	5.02	KU5021S28-HL

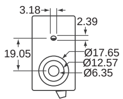
† For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

Model 15 Turns Counting Dial

E15-1-11-ND: The left digit indicates the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 999.

E15-2-11-ND: The left two digits indicates the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 9999.

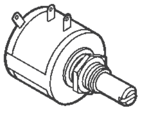




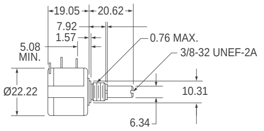
Rear View

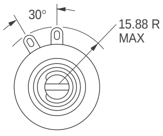
Description	Digi-Key Part No.	Price Each	Precision Part No.
Digital Dial (3 Digit/10 turn)	E15-1-11-ND	29.37	E15-1-11
Digital Dial (4 Digit/100 turn)	E15-2-11-ND	31.40	E15-2-11

Wirewound Precision Ten-Turn
2 Watt Potentiometers



GU Series





Specifications:

- **Resistance Tolerance**: ±5%
- **Electrical/Mechanical Rotation:** 3600° + 10° -0°
- **Effective Rotation:** 3600° nominal
- **Dielectric Strength:** 1000 VAC for 60 seconds at ATM
- **Working Voltage:** 500 volts max
- **Power rating:** 2 watt at 70° C
- **Shaft Length and Size:** 13/16" (20.64mm) FMS screwdriver slotted, stainless steel
- **Bushing Style:** 5/16" (7.95mm) Plain
- **Temp. Coefficient of Wire:** ± 20 PPM/°C wire

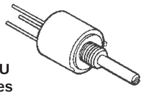
Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)
101 (100) 201 (200) 501 (500) 102 (1K)	202 (2K) 502 (5K) 103 (10K) 203 (20K)	253 (25K) 503 (50K) 104 (100K)

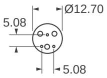
Resistance Range (Ohms)	Digi-Key* Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-100K	GU□□□1S26-ND	17.04	14.07	13.21	12.70	11.61	GU□□□ 1S26

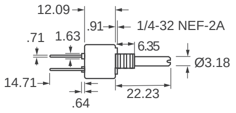
* For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

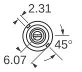
Type SPR Washable,
1/2 Watt Carbon Potentiometer



SPRU Series







Specifications:
• **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg to 5Meg • **Resistance Taper:** Linear • **Power Rating:** .5 Watts @ 70°C • **Dielectric Strength:** 750V RMS • **Working Voltage:** 350VDC Maximum, but power not to exceed rating • **Operating Temperature:** -55°C to +120°C • **Mechanical Rotation:** 295°.

Meets or exceeds MIL R 94 Specifications. Metal housing, stainless steel shaft.

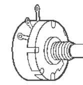
Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K)	252 (2.5K) 502 (5K) 103 (10K) 253 (25K)	503 (50K) 104 (100K) 254(250K) 504 (500K)	105 (1Meg) 255 (2.5Meg) 505 (5Meg)

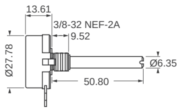
Resistance Range (Ohms)	Digi-Key* Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-5Meg	SPRU □□□ C-ND	6.76	6.11	5.20	4.32	3.77	SPRU(Code)1S28

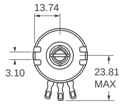
* For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

MIL Style RV4 -
2 Watt Carbon Potentiometer



RV4NJ Series





Specifications:

• **Resistance Tolerance:** ±10% through 500K, ±20% for 1 Meg • **Resistance Taper:** Linear • **Power Rating:** 2 Watts @ 70°C, derate to 0 Watt @ 120°C • **Dielectric Strength:** 900V RMS • **Working Voltage:** 500VDC Max., but power not to exceed rating • **Operating Temperature:** -55°C to +120°C • **Mechanical Rotation:** 314°

QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft

Resistance Code Chart

Code (Value)	Code (Value)
500 (50) 101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 104 (100K) 504 (500K) 105 (1Meg)

Resistance Range (Ohms)	Digi-Key* Part No.	Price Each 1	10	50	100	250	Precision Part No.
50-1Meg	RV4NJ □□□ C-ND	6.24	5.64	4.80	3.99	3.48	RV4NAYSJ(Code)A

* For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

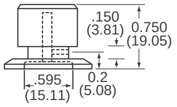
KILO INTERNATIONAL

Push-to-Turn Aluminum Knobs

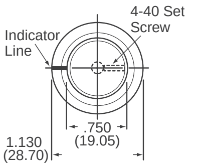
DDSPT Series

Made in the USA

Side View



Top View



Features:

Precision aluminum machined surfaces from bar stock.

Anodized finish gloss or matte. Colors are clear or black. DDSPT Series knobs have a single 4-40 set screw.

Shaft Dia. Inch (mm)	Color/ Finish	Digi-Key Part No.	Price Each 1	10	50	100
.250 (6.35)	Clear/Gloss	226-1045-ND	16.76	14.90	12.30	11.18
.125 (3.18)	Clear/Gloss	226-1046-ND	16.76	14.90	12.30	11.18
.236 (6.00)	Clear/Gloss	226-1047-ND	16.76	14.90	12.30	11.18
.250 (6.35)	Black/Gloss	226-1048-ND	16.76	14.90	12.30	11.18
.125 (3.18)	Black/Gloss	226-1049-ND	16.76	14.90	12.30	11.18
.236 (6.00)	Black/Gloss	226-1050-ND	16.76	14.90	12.30	11.18
.250 (6.35)	Clear/Matte	226-1051-ND	16.76	14.90	12.30	11.18
.125 (3.18)	Clear/Matte	226-1052-ND	16.76	14.90	12.30	11.18
.236 (6.00)	Clear/Matte	226-1053-ND	16.76	14.90	12.30	11.18
.250 (6.35)	Black/Matte	226-1054-ND	16.76	14.90	12.30	11.18
.125 (3.18)	Black/Matte	226-1055-ND	16.76	14.90	12.30	11.18
.236 (6.00)	Black/Matte	226-1056-ND	16.76	14.90	12.30	11.18

Concentric Scale Dials

SERIES: 400, 500, 600, 3400

Made in the USA

Fig. 1

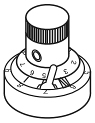


Fig. 2

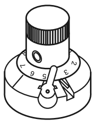


Fig. 3

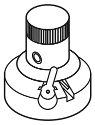
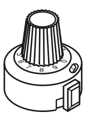


Fig. 4



Features:

Anodized precision machined aluminum exterior. Accommodates potentiometer shaft - 1/4" (6.35mm) with 3/8" x 32-NEF-2A bushing. Requires only one square inch of panel space.

400 Series:
1" (25.40mm) **10 Turn Calibration**. This world class turns-counting dial is designed for multi-turn potentiometers up to ten turns or other rotary devices. The knob/scale attaches directly to the shaft, and the body of the dial is mounted rigidly to the panel, therefore, accurate readings with a ratio of 1000 to 1 for ten turns are provided with no backlash or reading error. Available with or without locking mechanism.

500 Series:
1" (25.40mm) **1 Turn Calibrated scale.**

600 Series:
1" (25.40mm) **Uncalibrated dial.**

3400 Series:
7/8" (22.23mm) **20 Turn Calibration.** Calibrated dial designed for multi-turn potentiometers up to twenty turns or other rotary devices. The turns counting digit appears in the window as the dial is rotated. Mounting bracket plate is installed between panel and panel nut, with the dial mounting directly to the potentiometer shaft.

Fig.	Description	Digi-Key Part No.	Price Each 1	5	10	Kilo Part No.
	Commercial 10 Turn					
1	Black Anodize, No Lock	411KL-ND	19.32	17.94	16.56	411
	Black Anodize, With Lock	412KL-ND	18.71	17.38	16.04	412
	Clear Anodize, No Lock	461KL-ND	17.77	16.50	15.23	461
	Clear Anodize, With Lock	462KL-ND	18.71	17.38	16.04	462
	Commercial Single Turn					
2	Black Anodize, With Lock	512KL-ND	17.24	16.09	15.32	512
	Clear Anodize, No Lock	561KL-ND	13.28	12.39	11.80	561
	Clear Anodize, With Lock	562KL-ND	17.24	16.09	15.32	562
3	Black Anodize, With Lock	612KL-ND	16.67	15.57	14.82	612
	Clear Anodize, With Lock	662KL-ND	16.67	15.57	14.82	662
	Commercial 20 Turn					
4	Black Anodize, With Lock	3412KL-ND	16.70	15.51	14.31	3412
	Clear Anodize, With Lock	3462KL-ND	16.70	15.51	14.31	3462

Machined Aluminum Instrumentation Knobs

Made in the USA

Features:

- Knobs are anodized in construction
- Set screws accept a 1/16" hex allen wrench
- All knobs will accept round shafts with sizes indicated below. DDS, DD and JD Series: Two 6-32 set screws set 120° apart. HD Series: Two 6-32 set screws set 90° apart. ML Series: One 6-32 set screw.

Fig. 1 - ML Series *"Soft Touch"*

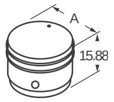


Fig. 2 - DD Series

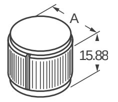


Fig. 3 - JD Series

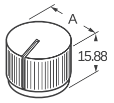


Fig. 4 - HD Series

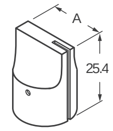


Fig. 5 - DDS Series

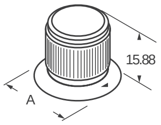


Fig.	Shaft Dia. Inch (mm)	Dim. A Inch (mm)	Digi-Key* Part No.	Price Each 1	10	50	100
1	.125 (3.18)	.50 (12.70)	226-☐000-ND	5.13	4.56	3.77	3.42
	.125 (3.18)	.75 (19.05)	226-☐026-ND	6.26	5.56	4.59	4.17
	.125 (3.18)	.925 (23.50)	226-☐027-ND	6.86	6.10	5.04	4.58
	.250 (6.35)	.50 (12.70)	226-☐025-ND	5.13	4.56	3.77	3.42
	.250 (6.35)	.75 (19.05)	226-☐001-ND	6.26	5.56	4.59	4.17
	.250 (6.35)	.925 (23.50)	226-☐002-ND	6.86	6.10	5.04	4.58
	.236 (6.00)	.50 (12.70)	226-☐003-ND	5.13	4.56	3.77	3.42
	.236 (6.00)	.75 (19.05)	226-☐004-ND	6.26	5.56	4.59	4.17
	.236 (6.00)	.925 (23.50)	226-☐028-ND	6.86	6.10	5.04	4.58
2	.125 (3.18)	.50 (12.70)	226-☐005-ND	4.73	4.20	3.47	3.15
	.125 (3.18)	.75 (19.05)	226-☐042-ND	4.88	4.34	3.59	3.26
	.125 (3.18)	.925 (23.50)	226-☐043-ND	5.13	4.34	3.59	3.26
	.250 (6.35)	.50 (12.70)	226-☐041-ND	4.73	4.34	3.59	3.26
	.250 (6.35)	.75 (19.05)	226-☐006-ND	4.88	4.34	3.59	3.26
	.250 (6.35)	.925 (23.50)	226-☐007-ND	5.13	4.56	3.77	3.42
	.236 (6.00)	.50 (12.70)	226-☐008-ND	4.73	4.20	3.47	3.15
	.236 (6.00)	.75 (19.05)	226-☐009-ND	4.88	4.34	3.59	3.26
	.236 (6.00)	.925 (23.50)	226-☐044-ND	5.13	4.56	3.77	3.42
3	.125 (3.18)	.50 (12.70)	226-☐010-ND	4.73	4.20	3.47	3.15
	.125 (3.18)	.75 (19.05)	226-☐034-ND	4.88	4.34	3.59	3.26
	.125 (3.18)	.925 (23.50)	226-☐035-ND	5.13	4.56	3.77	3.42
	.250 (6.35)	.50 (12.70)	226-☐033-ND	4.73	4.20	3.47	3.15
	.250 (6.35)	.75 (19.05)	226-☐011-ND	4.88	4.34	3.59	3.26
	.250 (6.35)	.925 (23.50)	226-☐012-ND	5.13	4.56	3.77	3.42
	.236 (6.00)	.50 (12.70)	226-☐013-ND	4.73	4.20	3.47	3.15
	.236 (6.00)	.75 (19.05)	226-☐014-ND	4.88	4.34	3.59	3.26
	.236 (6.00)	.925 (23.50)	226-☐036-ND	5.13	4.56	3.77	3.42
4	.125 (3.18)	.50 (12.70)	226-☐015-ND	5.38	4.78	3.95	3.59
	.125 (3.18)	.75 (19.05)	226-☐030-ND	6.48	5.76	4.76	4.32
	.125 (3.18)	.925 (23.50)	226-☐031-ND	7.29	6.48	5.35	4.86
	.250 (6.35)	.50 (12.70)	226-☐029-ND	5.38	4.78	3.95	3.59
	.250 (6.35)	.75 (19.05)	226-☐016-ND	6.48	5.76	4.76	4.32
	.250 (6.35)	.925 (23.50)	226-☐017-ND	7.29	6.48	5.35	4.86
	.236 (6.00)	.50 (12.70)	226-☐018-ND	5.38	4.78	3.95	3.59
	.236 (6.00)	.75 (19.05)	226-☐019-ND	6.48	5.76	4.76	4.32
	.236 (6.00)	.925 (23.50)	226-☐032-ND	7.29	6.48	5.35	4.86
5	.125 (3.18)	.685 (17.40)	226-☐020-ND	5.20	4.62	3.82	3.47
	.125 (3.18)	1.00 (25.40)	226-☐038-ND	6.21	5.52	4.56	4.14
	.125 (3.18)	1.25 (31.75)	226-☐039-ND	6.71	5.96	4.92	4.47
	.250 (6.35)	.685 (17.40)	226-☐037-ND	5.20	4.62	3.82	3.47
	.250 (6.35)	1.00 (25.40)	226-☐021-ND	6.21	5.52	4.56	4.14
	.250 (6.35)	1.25 (31.75)	226-☐022-ND	6.71	5.96	4.92	4.47
	.236 (6.00)	.685 (17.40)	226-☐023-ND	5.20	4.62	3.82	3.47
	.236 (6.00)	1.00 (25.40)	226-☐024-ND	6.21	5.52	4.56	4.14
	.236 (6.00)	1.25 (31.75)	226-☐040-ND	6.71	5.96	4.92	4.47

* For complete part number, substitute the corresponding color choice (listed below) for ☐:
1 = Black Gloss **2** = Aluminum Gloss **3** = Aluminum Matte **4** = Black Matte

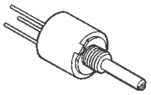
CLAROSTAT

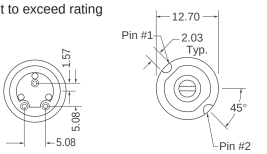
Washable, Conductive Plastic Potentiometers — 1/2 Watt

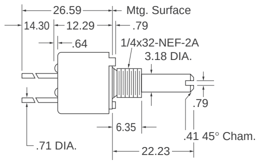
SERIES 392JB

SPECIFICATIONS:

- **Power Rating:** .5 Watts at 70 C. voltage not to exceed rating.
- **Electrical Rotation:** 295° ±5°
- **Effective Rotation:** 265° +0°, -10°
- **Mechanical Rotation:** 295° ±5°
- **Resistance Tolerance:** ±10% through 500k. ±20% @ 1 Meg
- **Dielectric Strength:** 750 VAC for 60 sec., @ ATM pressure. 350 VAC for 60 sec., in. Hg
- **Working Voltage:** 350 VDC across terminals, but power not to exceed rating
- **Operational Temperature Range:** -40 C. to + 120 C.







Series 392JB: Plastic Shaft and Bushing

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1 Meg.)

Resistance Range (Ohms)	Digi-Key⋆ Part No.	Price Each 1	10	50	100	250	500	Clarostat Part No.
100-1 Meg.	392JB □□□ -ND	7.30	6.41	5.38	3.99	3.41	3.07	392JB (Value)

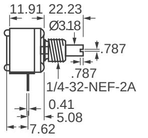
⋆ For complete number, substitute corresponding code (from chart above) for □ □ □ .

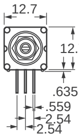
Conductive Plastic Potentiometers — 1/2 Watt

SERIES 590SX

SPECIFICATIONS:

- **Resistance Tolerance:** ±10%
- **Power Rating (Watts):** 0.5W @ 70°C. Derated linearly to 0 Watts at 120°C
- **Mechanical and Electrical Rotation:** 295° ±5°
- **Working Voltage:** 350 VAC Max. across end terminals, but within Power Rating
- **Effective Rotation:** 265° ±5°. Hardware included.





RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
102 (1K)	502 (5K)	103 (10K)

Resistance Range (Ohms)	Digi-Key⋆ Part No.	Price Each 1	10	50	100	Clarostat Part No.
1K-10K	590SX □□□ -ND	4.90	4.45	4.05	3.50	590SX1N56S □□□ SP

⋆ For complete number, substitute corresponding code (from chart above) for □ □ □ .

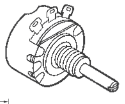
Conductive Plastic Potentiometers — 1 Watt

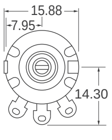
SERIES 381

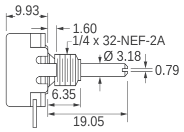
The "Quiet One" with 1% dynamic noise and 5% independent linearity. Manufactured to MIL-R-94D specification. 381N — Bushing, Plain, 1/4" (6.35mm) long. Shaft 3/4" (19.05mm) FMS screwdriver slotted.

SPECIFICATIONS:

- **Resistance Tolerance:** Linear, up to 500K, ±10%, above 500K, ±20%
- **Power Rating (Watts):** 1 watt maximum continuous power rating for linear taper, but voltage not to exceed rating. Full rating at 70°C, derated linearly to zero watts at 120°C
- **Mechanical and Electrical Rotation:** 300° ±5° without switch
- **Working Voltage:** 350 VDC across end terminals, but power not to exceed rating
- **Effective Rotation:** 270° +0° -10°
- **Dielectric Strength:** 1,000 VAC for 60 Sec. ATM







RESISTANCE CODE CHART
(Value — Linear)

Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K) 502 (5K) 103 (10K) 253 (25K)	503 (50K) 104 (100K) 254 (250K) 504 (500K) 105 (1 Meg.) 255 (2.5 Meg.) 505 (5 Meg.)

Resistance Range (Ohms)	Digi-Key⋆ Part No.	Price Each 1	10	50	Clarostat Part No.
100-5 Meg.	381N □□□ -ND	13.35	11.77	10.19	381N (Value)

⋆ For complete number, substitute corresponding code (from chart above) for □ □ □ .

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP.

Instrumentation Knobs

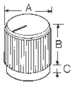
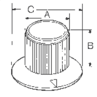
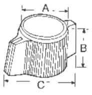
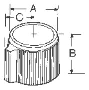
Fig. 1	Fig. 2	Fig. 3	Fig. 4
 Skirted Round	 Round with Dial	 Double Bar	 Single Bar

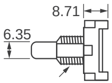
Fig.	Shaft Dia.	Dimensions A	B	C	Digi-Key Part No.	Price Each 1	10	100
1	3.18	12.70	12.95	3.81	8554K-ND	3.47	3.08	2.72
	6.35	17.78	15.49	4.32	8555K-ND	3.60	3.20	2.84
	6.35	22.86	20.07	5.59	8556K-ND	3.71	3.30	2.93
2	3.18	12.70	13.97	22.86	8558K-ND	4.34	3.86	3.41
	6.35	17.78	18.03	29.21	8559K-ND	5.20	4.62	4.08
	6.35	22.86	22.10	38.74	8560K-ND	5.92	5.26	4.66
3	6.35	17.78	15.49	29.21	8565K-ND	4.41	3.92	3.46
	6.35	22.86	16.26	38.74	8566K-ND	4.73	4.20	3.70
4	3.18	12.70	12.95	8.89	8567K-ND	5.22	4.64	4.11
	6.35	17.78	15.49	11.68	8568K-ND	6.01	5.34	4.73
	6.35	22.86	20.07	14.99	8569K-ND	6.50	5.78	5.12

Knobs have a spun aluminum inlay with a clear coat finish.

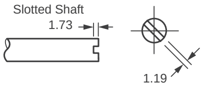
CLAROSTAT

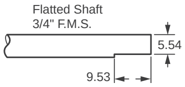
Conductive Plastic Potentiometers — 1/4 Watt

SERIES 574SFX 575SSX



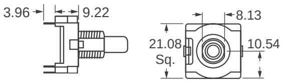
M9 (574 Series)
3/8-32UNEF-2A (575 Series)

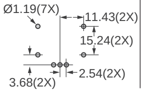




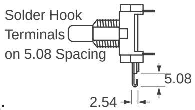
Series 574 and 575

Series 574





Series 575



RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)
102 (1K) 103 (10K)	503 (50K) 104 (100K)

SPECIFICATIONS:

- **Resistance Tolerance:** ±20% • **Power Rating (Watts):** 0.25W @ 70°C • **Mechanical and Electrical Rotation:** 300° ±5° • **Working Voltage:** 350VAC Max • **Effective Rotation:** 270°

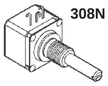
Hardware must be ordered separately.

Resistance Range (Ohms)	Shaft Type	Digi-Key⋆ Part No.	Price Each 1	10	50	100	Clarostat Part No.
10K-100K	Flatted	574SF □□□ -ND	2.40	2.19	1.99	1.72	574SX1M48F □□□ SD
10K-100K	Slotted	574SS □□□ -ND	2.40	2.19	1.99	1.72	574SX1M48S □□□ SD
1K-50K	Flatted	575SF □□□ -ND	1.94	1.76	1.60	1.39	575SX1A48F □□□ SS
1K-50K	Slotted	575SS □□□ -ND	1.94	1.76	1.60	1.39	575SX1A48S □□□ SS
Mounting Nut (574 Series)		02318603-ND	—	.14	.12	.11	02318603
Mounting Nut (575 Series)		01051301-ND	—	.29	.26	.23	01051301
Lock Washer		01070602-ND	—	.29	.26	.23	01070602

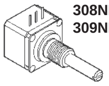
⋆ For complete number, substitute corresponding code (from chart above) for □ □ □ .

Conductive Plastic Potentiometers — 1/2 Watt, 1 Watt

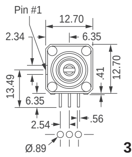
SERIES 308N 308NPC 309NPC

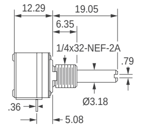


308N Series

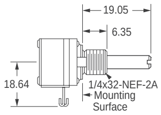


308NPC Series
309NPC Series





308NPC/309NPC Series
PC Terminals



308N Series
Hook Terminals

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100)	502 (5K)	254 (250K)
251 (250)	103 (10K)	504 (500K)
501 (500)	253 (25K)	105 (1 Meg.)
102 (1K)	503 (50K)	255 (2.5 Meg.)
252 (2.5K)	104 (100K)	505 (5 Meg.)

SPECIFICATIONS:

- **Resistance Tolerance:** ±10% up to 500K, ±20% above
- **Electrical and Mechanical Rotation:** 295° ±5°
- **Dielectric Strength:** 750 VAC (308 Series), 900 VAC (309 Series), for 60 SEC ATM
- **Working Voltage:** 350 VDC across terminals
- **Power Rating:** .5 watt at 70°C (308 Series), 1 watt at 150°C (309 Series)
- **Operating Temperature:** -40° to +120°C (308 Series), -40°C to +150°C (309 Series)
- **Rotational Life:** 50,000 cycles under load (308 Series), 25,000 cycles under load (309 Series).

Resistance Range (Ohms)	Digi-Key⋆ Part No.	Price Each 1	10	50	100	250	Clarostat Part No.
100-5 Meg.	308N □□□ -ND	10.70	8.23	7.16	5.73	4.09	308N (Value)
100-1 Meg.	308NPC □□□ -ND	10.74	8.27	7.20	5.77	4.13	308NPC (Value)
100-5 Meg.	309NPC □□□ -ND	10.92	8.87	7.40	6.77	5.18	309NPC (Value)

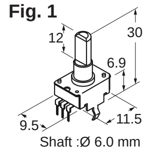
⋆ For complete number, substitute corresponding code (from chart above) for □ □ □ .
N = Shaft: 1/8 in. (3.18mm) diameter x 3/4 in. (19.05mm)

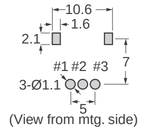
Panasonic Audio Potentiometers

9mm Potentiometers

Specifications: Resistance Range: 5K ohm through 50K ohm • Tolerance: ±20% • Power Rating: .05w @ 50°C • Voltage Rating: E = √PR but E ≤ 50VAC/20VDC • Rotation Angle: 300° ±5° • Life: 10000 turns min. • Application: Audio mixer

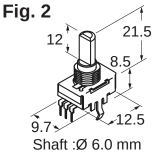
Fig. 1





Footprint Applies to Figures 1, 2 & 3

Fig. 2



*** Hardware Included**

Fig. 3

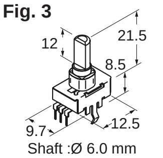
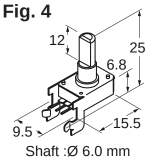
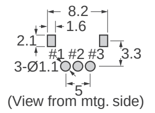


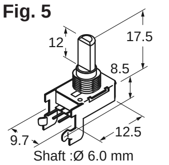
Fig. 4





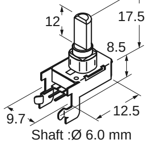
Footprint Applies to Figures 4, 5, & 6

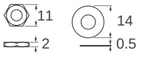
Fig. 5



*** Hardware Included**

Fig. 6



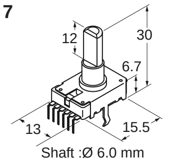


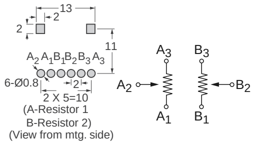
*** Hardware for Fig. 2 and Fig. 5**

12mm Potentiometers

Specifications: Resistance Range: 5K ohm through 50K ohm • Tolerance: ±20% • Power Rating: .05w @ 50°C • Voltage Rating: E = √PR but E ≤ 50VAC/20VDC (Do not use DC Voltage) • Rotation Angle: 300° ±5° • Life: 15000 turns min. • Application: Audio mixer

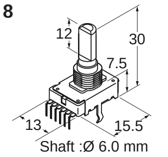
Fig. 7





Footprint Applies to Figures 7, 8, & 9

Fig. 8



*** Hardware Included**

Fig. 9

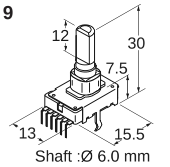
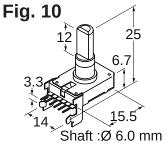
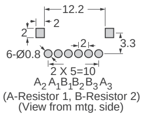


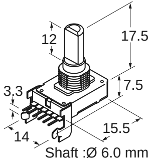
Fig. 10





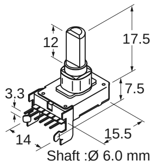
Footprint Applies to Figures 7, 8, & 9

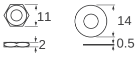
Fig. 11



*** Hardware Included**

Fig. 12

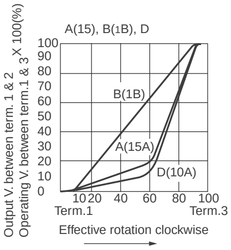




*** Hardware for Fig. 8 and Fig. 11**

Resistance Code Chart
Code (Resistance Value)

Code (Value)	Code (Value)
502 (5K)	103 (10K)
203 (20K)	503 (50K)



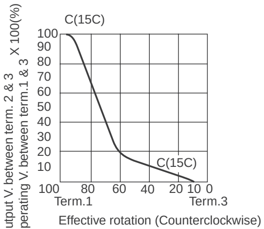


Fig.	Taper	Center Detent	Bushing	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic* Part No.
9MM Audio Potentiometers									
1	B	Y	None	P3A1□□□-ND	1.05	8.73	65.48	483.06	EVU-F3AF30B□□
	D	Y	None	P3B2□□□-ND	1.05	8.73	65.48	483.06	EVU-F3AF30D□□
	B	N	None	P3C3□□□-ND	.99	8.22	61.65	454.84	EVU-F2AF30B□□
	D	N	None	P3D4□□□-ND	.99	8.22	61.65	454.84	EVU-F2AF30D□□
2	B	Y	Metal	P3E5□□□-ND	1.90	15.84	118.80	876.48	EVU-F3MFL3B□□
	D	Y	Metal	P3F6□□□-ND	1.90	15.84	118.80	876.48	EVU-F3MFL3D□□
	B	N	Metal	P3G7□□□-ND	1.84	15.33	114.98	848.26	EVU-F2MFL3B□□
	D	N	Metal	P3H8□□□-ND	1.84	15.33	114.98	848.26	EVU-F2MFL3D□□
3	B	Y	Plastic	P3I9□□□-ND	1.25	10.44	78.30	577.68	EVU-F3LFL3B□□
	D	Y	Plastic	P3J0□□□-ND	1.25	10.44	78.30	577.68	EVU-F3LFL3D□□
	B	N	Plastic	P3K1□□□-ND	1.19	9.90	74.25	547.80	EVU-F2LFL3B□□
	D	N	Plastic	P3L2□□□-ND	1.19	9.90	74.25	547.80	EVU-F2LFL3D□□
4	B	Y	None	P3M3□□□-ND	1.08	9.03	67.73	499.66	EVU-E3AF25B□□
	D	Y	None	P3N4□□□-ND	1.08	9.03	67.73	499.66	EVU-E3AF25D□□
	B	N	None	P3P5□□□-ND	1.02	8.49	63.68	469.78	EVU-E2AF25B□□
	D	N	None	P3Q6□□□-ND	1.02	8.49	63.68	469.78	EVU-E2AF25D□□
5	B	Y	Metal	P3R7□□□-ND	1.94	16.17	121.28	894.74	EVU-E3JFK4B□□
	D	Y	Metal	P3S8□□□-ND	1.94	16.17	121.28	894.74	EVU-E3JFK4D□□
	B	N	Metal	P3T9□□□-ND	1.87	15.60	117.00	863.20	EVU-E2JFK4B□□
	D	N	Metal	P3U0□□□-ND	1.87	15.60	117.00	863.20	EVU-E2JFK4D□□
6	B	Y	Plastic	P3W1□□□-ND	1.29	10.77	80.78	595.94	EVU-E3KFK4B□□
	D	Y	Plastic	P3X2□□□-ND	1.29	10.77	80.78	595.94	EVU-E3KFK4D□□
	B	N	Plastic	P3Y3□□□-ND	1.22	10.20	76.50	564.40	EVU-E2KFK4B□□
	D	N	Plastic	P3Z4□□□-ND	1.22	10.20	76.50	564.40	EVU-E2KFK4D□□
12MM Audio Potentiometers									
7	B	Y	None	P2A5□□□-ND	2.36	19.68	147.60	1088.96	EVJ-Y81F30B□□
	AC	Y	None	P2B6□□□-ND	2.36	19.68	147.60	1088.96	EVJ-YE1F30□□□
	A	N	None	P2C7□□□-ND	2.29	19.11	143.33	1057.42	EVJ-Y00F30A□□
	D	N	None	P2D8□□□-ND	2.29	19.11	143.33	1057.42	EVJ-Y00F30D□□
8	B	Y	Metal	P2E9□□□-ND	2.69	22.41	168.08	1240.02	EVJ-Y91F03B□□
	AC	Y	Metal	P2F0□□□-ND	2.69	22.41	168.08	1240.02	EVJ-YK1F03□□□
	A	N	Metal	P2G1□□□-ND	2.62	21.87	164.03	1210.14	EVJ-Y10F03A□□
	D	N	Metal	P2H2□□□-ND	2.62	21.87	164.03	1210.14	EVJ-Y10F03D□□
9	B	Y	Plastic	P2I3□□□-ND	2.57	21.39	160.43	1183.58	EVJ-Y96F03B□□
	AC	Y	Plastic	P2J4□□□-ND	2.57	21.39	160.43	1183.58	EVJ-YK6F03□□□
	A	N	Plastic	P2K5□□□-ND	2.51	20.88	156.60	1155.36	EVJ-Y15F03A□□
	D	N	Plastic	P2L6□□□-ND	2.51	20.88	156.60	1155.36	EVJ-Y15F03D□□
10	B	Y	None	P2M7□□□-ND	2.39	19.95	149.63	1103.90	EVJ-C31F25B□□
	AC	Y	None	P2N8□□□-ND	2.39	19.95	149.63	1103.90	EVJ-CV1F25□□□
	A	N	None	P2P9□□□-ND	2.33	19.38	145.35	1072.36	EVJ-C00F25A□□
	D	N	None	P2Q0□□□-ND	2.33	19.38	145.35	1072.36	EVJ-C00F25D□□
11	B	Y	Metal	P2R1□□□-ND	2.73	22.71	170.33	1256.62	EVJ-C51F02B□□
	AC	Y	Metal	P2S2□□□-ND	2.73	22.71	170.33	1256.62	EVJ-CC1F02□□□
	A	N	Metal	P2T3□□□-ND	2.66	22.14	166.05	1225.08	EVJ-C20F02A□□
	D	N	Metal	P2U4□□□-ND	2.66	22.14	166.05	1225.08	EVJ-C20F02D□□
12	B	Y	Plastic	P2W5□□□-ND	2.60	21.66	162.45	1198.52	EVJ-C56F02B□□
	AC	Y	Plastic	P2X6□□□-ND	2.60	21.66	162.45	1198.52	EVJ-CC6F02□□□
	A	N	Plastic	P2Y7□□□-ND	2.53	21.12	158.40	1168.64	EVJ-C25F02A□□
	D	N	Plastic	P2Z8□□□-ND	2.53	21.12	158.40	1168.64	EVJ-C25F02D□□

For complete number, substitute corresponding code (from above chart) for □□□.
***** Call Digi-Key for help in assembling manufacturer part number.

Thumbwheel Potentiometers

Resistance Code Chart
Code (Resistance Value)

Code (Value)	Code (Value)
502 (5K)	203 (20K)
103 (10K)	503 (50K)

Resistance Range: 5K ohm through 50K ohm • Tolerance: ±20% • Power Rating: B taper - .03W, All others .01W • Voltage Rating: 50VAC/20VDC • Rotation Angle: 260° ±10° • Life: 10000 turns min.

Fig. 13

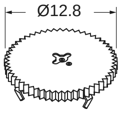
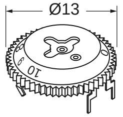
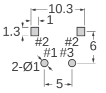


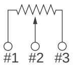
Fig. 14



Footprint Applies to both Fig. 13 & 14



(View from mtg. side)



Element Circuit Diagram

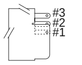
Fig.	Taper	Center Detent	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic* Part No.
13	A	N	P4A9□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA01A□□
	B	N	P4B0□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA01B□□
14	A	N	P4C1□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA06A□□
	B	N	P4D2□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA06B□□
13	A	Y	P4E3□□□-ND	2.32	19.32	144.90	1069.04	EVL-HFKA01A□□
	B	Y	P4F4□□□-ND	2.32	19.32	144.90	1069.04	EVL-HFKA01B□□

For complete number, substitute corresponding code (from chart at left) for □□□.
***** Call Digi-Key for help in assembling manufacturer part number.

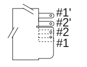
Panasonic® Slide Potentiometers for Audio Mixer Applications

Fig. 1 – Rail Guide Type

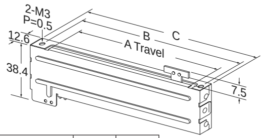
Features: • Wobbleless, smooth travel with wet slide feel • High reliability due to exclusive specular glossing resistive elements for low distortion and precise precious metal contacts • Precise attenuation characteristics • Long life 100,000 cycles min. **Recommended Applications:** • Fader controls for audio mixers • Audio Equipment



Single (EVA) Details



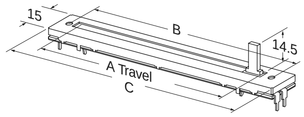
Dual (EVB) Details

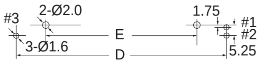


Travel = A	B	C
100	120	129.3
60	80	89.3

Fig. 2 – Thin Type

Features: • Thin and compact design with 8mm body height and 15mm width • Light sliding force and excellent operation • Highly accurate attenuation characteristics, maximum attenuation of more than 100dB, and low noise **Recommended Applications:** • Fade control for common type audio mixers

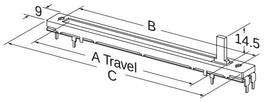


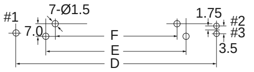


Travel = A	B	C	D	E
100	120	128	127.5	96
60	80	88	87.5	56

Fig. 3 – Mono Type

Features: • Slim type fader, 9mm width, 8mm height • Excellent cost performance applicable to audio mixers for amateur use **Recommended Applications:** • Fade control for audio mixers • Multi-Track Recorders • Paper position sensors for copiers

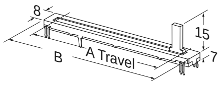


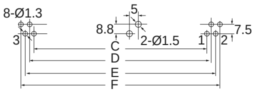


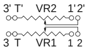
Travel = A	B	C	D	E	F
100	120	128	127.5	92.5	87.5
60	80	88	87.5	52.5	47.5

Fig. 4 – Standard Type

Features: • Excellent operational feeling • Low noise, long operational life, highly accurate attenuation **Recommended Applications:** • Fade control for audio mixers and musical key boards • Heat control or mode switching for car air conditioners • Measurement instruments





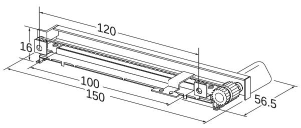


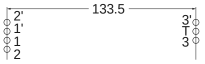
CIRCUIT DIAGRAM
(Note for Single: Do not connect dummy terminal 1' and others
3 and T- short terminals
1', 2', 3' and T'- dummy terminals
Note for Dual: 3 and T- short terminals
3' and T'- short terminals)

Travel = A	B	C	D	E	F
60	75	64	67	70	73
45	60	49	52	55	58

Fig. 5 – Motor Type

Features: • Excellent operation feeling, high speed driving and power saving design • Dust-proof mounting possible by 90° off set lever design **Recommended Application:** • Automated Audio Mixers (Common/Amateur Type)





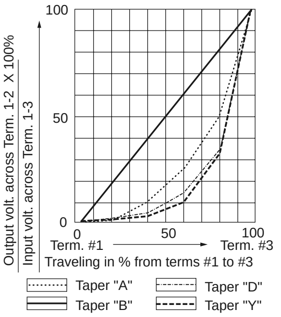
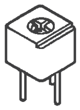
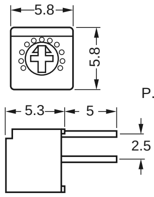


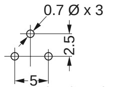
Fig.	Resist. (ohms)	Style	Travel (mm)	Single/ Dual	Taper	Digi-Key Part No.	Price Each 1	10	50	100	Panasonic Part No.
1	10K	Rail	100	S	Y	PJY100SY-ND	37.67	34.04	31.77	30.19	EVA-JYBP08Y14
	10K	Rail	100	S	B	PJY100SB-ND	37.67	34.04	31.77	30.19	EVA-JYMP08B14
	10K	Rail	100	D	Y	PJY100DY-ND	47.09	42.55	39.72	37.73	EVB-JYBP08Y14
	10K	Rail	60	S	Y	PJX060SY-ND	31.39	28.37	26.48	25.16	EVA-JXCP08Y14
	10K	Rail	60	D	Y	PJX060DY-ND	40.81	36.88	34.42	32.70	EVB-JXCP08Y14
2	10K	Thin	100	S	Y	PJQ100SY-ND	8.51	6.81	5.65	5.11	EVA-JQKR15Y14
	10K	Thin	100	S	A	PJQ100SA-ND	8.51	6.81	5.65	5.11	EVA-JQKR15A14
	10K	Thin	100	S	D	PJQ100SD-ND	8.51	6.81	5.65	5.11	EVA-JQKR15D14
	10K	Thin	100	S	B	PJQ100SB-ND	8.51	6.81	5.65	5.11	EVA-JQLR15B14
	10K	Thin	100	D	Y	PJQ100DY-ND	10.88	8.70	7.23	6.53	EVB-JQKR15Y14
	10K	Thin	100	D	A	PJQ100DA-ND	10.88	8.70	7.23	6.53	EVB-JQKR15A14
	10K	Thin	100	D	D	PJQ100DD-ND	10.88	8.70	7.23	6.53	EVB-JQKR15D14
	10K	Thin	60	S	Y	PNA060SY-ND	8.04	6.43	5.34	4.83	EVA-NADR15Y14
	10K	Thin	60	S	A	PNA060SA-ND	8.04	6.43	5.34	4.83	EVA-NADR15A14
	10K	Thin	60	S	D	PNA060SD-ND	8.04	6.43	5.34	4.83	EVA-NADR15D14
	10K	Thin	60	S	B	PNA060SB-ND	8.04	6.43	5.34	4.83	EVA-NAHR15B14
	10K	Thin	60	D	Y	PNA060DY-ND	10.40	8.32	6.91	6.24	EVB-NADR15Y14
	10K	Thin	60	D	A	PNA060DA-ND	10.40	8.32	6.91	6.24	EVB-NADR15A14
	10K	Thin	60	D	D	PNA060DD-ND	10.40	8.32	6.91	6.24	EVB-NADR15D14
3	10K	Mono	100	S	Y	PNF100SY-ND	7.09	5.68	4.71	4.26	EVA-NF4R15Y14
	10K	Mono	100	S	A	PNF100SA-ND	7.09	5.68	4.71	4.26	EVA-NF4R15A14
	10K	Mono	100	S	D	PNF100SD-ND	7.09	5.68	4.71	4.26	EVA-NF4R15D14
	10K	Mono	100	S	B	PNF100SB-ND	7.09	5.68	4.71	4.26	EVA-NF3R15B14
	10K	Mono	60	S	Y	PNE060SY-ND	6.15	4.92	4.09	3.69	EVA-NE4R15Y14
	10K	Mono	60	S	A	PNE060SA-ND	6.15	4.92	4.09	3.69	EVA-NE4R15A14
	10K	Mono	60	S	D	PNE060SD-ND	6.15	4.92	4.09	3.69	EVA-NE4R15D14
	10K	Mono	60	S	B	PNE060SB-ND	6.15	4.92	4.09	3.69	EVA-NE3R15B14
4	10K	Std.	60	S	A	PQ1060SA-ND	3.31	2.65	2.20	1.99	EWA-Q10C15A14
	10K	Std.	60	S	D	PQ1060SD-ND	3.31	2.65	2.20	1.99	EWA-Q10C15D14
	10K	Std.	60	S	B	PQ1060SB-ND	3.31	2.65	2.20	1.99	EWA-Q12C15B14
	10K	Std.	60	D	A	PQ3060DA-ND	4.02	3.22	2.67	2.42	EWA-Q30C15A14
	10K	Std.	60	D	D	PQ3060DD-ND	4.02	3.22	2.67	2.42	EWA-Q30C15D14
	10K	Std.	45	S	A	PP1045SA-ND	2.84	2.27	1.89	1.71	EWA-P10C15A14
	10K	Std.	45	S	D	PP1045SD-ND	2.84	2.27	1.89	1.71	EWA-P10C15D14
	10K	Std.	45	S	B	PP1045SB-ND	2.84	2.27	1.89	1.71	EWA-P12C15B14
	10K	Std.	45	D	A	PP3045DA-ND	3.55	2.84	2.36	2.13	EWA-P30C15A14
	10K	Std.	45	D	D	PP3045DD-ND	3.55	2.84	2.36	2.13	EWA-P30C15D14
5	10K	Motor	100	S	Y	PNC100SY-ND	47.09	42.55	39.72	37.73	EVB-NC2P088BL

Panasonic® 5mm Square Single-Turn Cermet Potentiometers

MAG Series

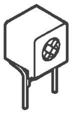


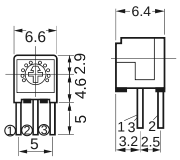


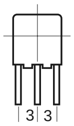


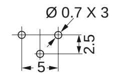
P.C.B. piercing plan

MBG Series



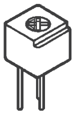


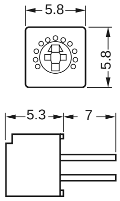


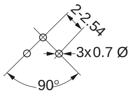


P.C.B. piercing plan
(pitch ± 0.1)

MSG Series







P.C.B. piercing plan

SPECIFICATIONS:

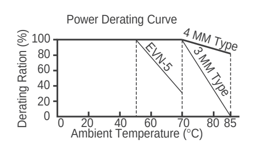
• **Mechanical Characteristics:** • Total rotation angle: Adjustment angle 200° nom. • Soldering: Within 5 seconds max. at 300°C • **Electrical Characteristics:** • Resistance Range: 100Ω to 2 MΩ • Tolerance: ±20% • Power Rating: 0.5W at 70°C • Maximum Voltage: 200V • Dielectric Withstanding Voltage: 600V AC for one minute • Temperature Coefficient: ±100ppm/°C • Insulation Resistance: 100MΩ • **Environmental Characteristics:** • Operating Temperature Range: –55°C to +125°C • Vibration: 20G • Shock: 180G • Seal: MIL-R-22097 Immersion

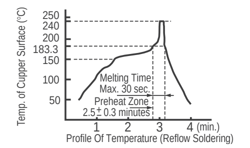
Panasonic/Matsushita Electric has announced a change in the Corporate Trademark. Present trademark: . New trademark: .

Res. (Ohms)	Digi-Key Part No. Top Adjust	Digi-Key Part No. Side Adjust	Digi-Key Part No. Top Adjust	Pricing 1	10	100	1,000	5,000	Panasonic Part No. Top Adjust	Panasonic Part No. Side Adjust	Panasonic Part No. Top Adjust
500	—	MBG52-ND	—	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MBGA01B52	—
1K	—	—	MSG13-ND	1.59	13.23	121.67	814.00	756.00/M	—	—	EVM-MSGA01B13
20K	—	MBG24-ND	—	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MBGA01B24	—
200K	MAG25-ND	MBG25-ND	—	1.59	13.23	121.67	814.00	756.00/M	EVM-MAGA01B25	EVM-MBGA01B25	—
500K	—	—	MSG55-ND	1.59	13.23	121.67	814.00	756.00/M	—	—	EVM-MSGA01B55
1M	—	MBG16-ND	—	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MBGA01B16	—
2M	—	—	MSG26-ND	1.59	13.23	121.67	814.00	756.00/M	—	—	EVM-MSGA01B26

Panasonic

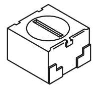
Surface Mount Trimmer Potentiometers



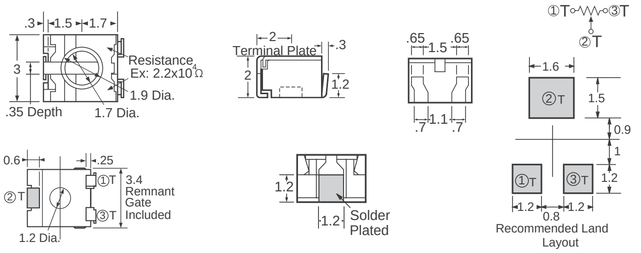


Profile for Reflow Soldering
Pre-Heat: 130°C to 160°C
Melting Temp.: TM = 183.3°C
Peak Time: Tp ≤ 240°C
Melting Temp.: TM ≤ 30s
Solder: Eutectic
Flux: Rosin Flux

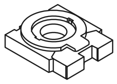
Series P7J – Panasonic Series #EVM-7JSX30BXX



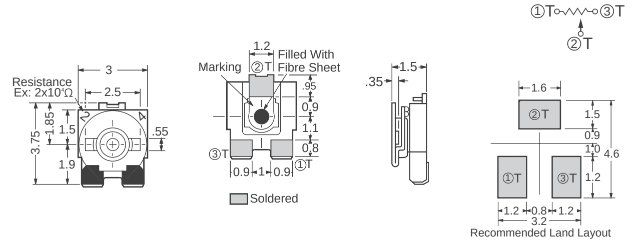
Features: • 3mm sealed type for flow and reflow soldering • Labor cost saving filmless sealed construction; **Resistance Range:** 220-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .05W; **Adjustment Angle:** 260 ±20.; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -40°C to +100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 10; **Soldering Heat:** 250C 10s/260C 5s



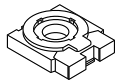
Series P1S – Panasonic Series #EVM-1SSX50BXX



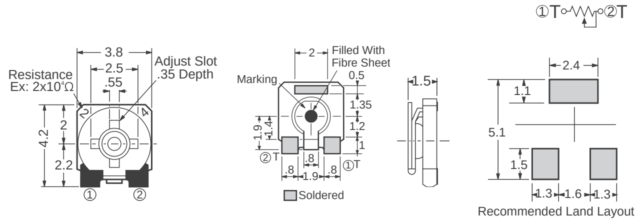
Features: • 3mm open frame type for reflow soldering • Excellent mounting efficiency; **Resistance Range:** 100-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C to +100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 20; **Soldering Heat:** 260C 10s



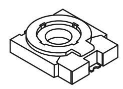
Series P1G – Panasonic Series #EVM-1GSX30BXX



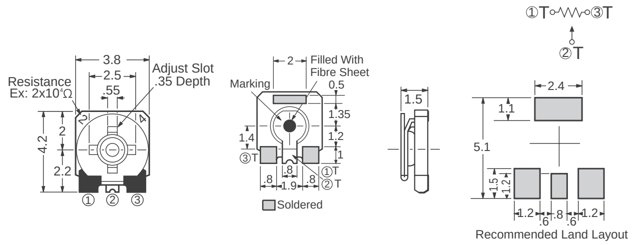
Features: • 4mm open frame type for reflow soldering • Two terminal construction; **Resistance Range:** 100-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C to +100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 20; **Soldering Heat:** 260C 10s



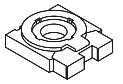
Series P1E – Panasonic Series #EVM-1ESX30BXX



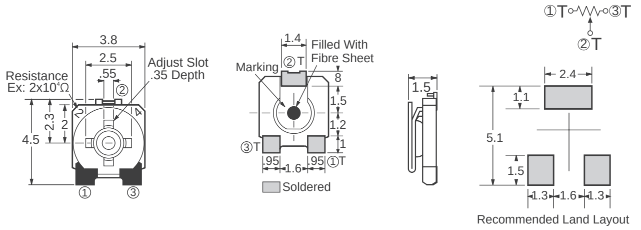
Features: • 4mm open frame type for reflow soldering • Inline terminal construction; **Resistance Range:** 100-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C to +100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 20; **Soldering Heat:** 260C 10s



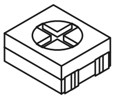
Series P1D – Panasonic Series #EVM-1DSX30BXX



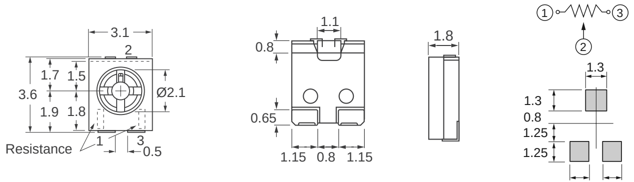
Features: • 4mm open frame type for reflow soldering • Triangle terminal construction; **Resistance Range:** 100-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C to +100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 20; **Soldering Heat:** 260C 10s



Series P5C – Panasonic Series #EVN-5CSX50BXX*
Series P5E – Panasonic Series #EVN-5ESX50BXX



Features: • 3mm carbon dust proof type for reflow soldering • Excellent mounting efficiency for pick and place assembly; • Rotation stopper feature (EVN-5E); **Resistance Range:** 500-1M OHM; **Tolerance:** ±30%; **Taper:** Linear; **Power Rating:** .05W @50C; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C to +70°C; **Temperature Coefficient:** ±500 ppm/C(+25°C to +70°C) / ±750 ppm/C (-20°C to +25°C); **Rotation Life:** 20; **Soldering Heat:** 280C 3s



* No stopper, 360° mechanical rotation.

Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	2,000	Panasonic Part No.
P7J□ □ □ CT-ND†	.63	5.28	48.53	P7J□ □ □ TR-ND†	325.00	—	EVM-7JSX30BXX*
P1S□ □ □ CT-ND†	.46	3.85	35.42	P1S□ □ □ TR-ND†	—	237.00/M	EVM-1SSX50BXX*
P1G□ □ □ CT-ND†	.44	3.65	33.58	P1G□ □ □ TR-ND†	225.00	—	EVM-1GSX30BXX*
P1E□ □ □ CT-ND†	.54	4.50	41.40	P1E□ □ □ TR-ND†	277.00	—	EVM-1ESX30BXX*
P1D□ □ □ CT-ND†	.50	4.13	37.95	P1D□ □ □ TR-ND†	254.00	—	EVM-1DSX30BXX*
P5C□ □ □ CT-ND†	.31	2.55	23.46	P5C□ □ □ TR-ND†	—	157.00/M	EVN-5CSX50BXX*
P5E□ □ □ CT-ND†	.28	2.35	21.62	P5E□ □ □ TR-ND†	—	145.00/M	EVN-5ESX50BXX*

* For assistance with Panasonic Part Number please call Digi-Key.
† For complete number, substitute corresponding code (from chart) for □ □ □.

Code Resistance Value For P7J Series						
Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
221 (220)	331 (330)	471 (470)	102 (1.0K)	222 (2.2K)	332 (3.3K)	472 (4.7K)
103 (10K)	223 (22K)	333 (33K)	473 (47K)	104 (100K)	224 (220K)	334 (330K)
474 (470K)	105 (1.0M)					
Code Resistance Value For P1 / P5C Series						
Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
201 (200)	501 (500)	102 (1.0K)	202 (2.0K)	502 (5.0K)	103 (10K)	
203 (20K)	503 (50K)	104 (100K)	204 (200K)	504 (500K)	105 (1.0M)	
Code Resistance Value For P5E Series						
Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
501 (500)	102 (1K)	202 (2K)	502 (5K)	103 (10K)	203 (20K)	503 (50K)
104 (100K)	204 (200K)	504 (500K)	105(1M)			

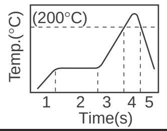
Digi-Key® SMT Trimmer Potentiometers Kits

P7J-KIT-ND	10 each of Series P7J, values 220–22K, 47K–1.0M (150 pieces)	**$59.95**
P1S-KIT-ND	10 each of Series P1S, values 200 - 1.0M (120 pieces)	**$43.95**
P1E-KIT-ND	10 each of Series P1E, values 100 - 1.0M (130 pieces)	**$43.95**
P1D-KIT-ND	10 each of Series P1D, values 100 - 1.0M (130 pieces)	**$43.95**

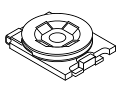
(Continued)

Profile for Reflow Soldering

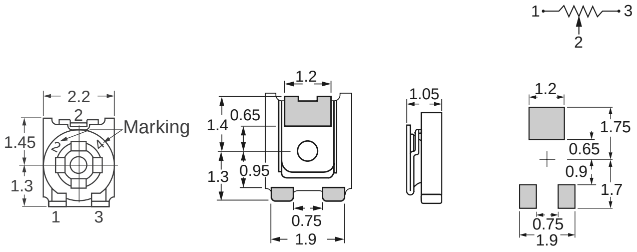
1. Heat-Up Zone:
   Room Temperature - (Preheat Zone 30~60s)
2. Pre-Heat Zone:
   140°C to 160°C (60~120s)
3. Heat-Up Zone:
   Preheat Zone ~200°C (20~40s)
4. Melting-Heat Zone:
   Peak Temperature (5s max.)
5. Cooling Zone:
   200°C to 100°C (1~4C/s)



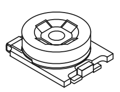
Series P2W – Panasonic Series #EVM-2WSX80BXX



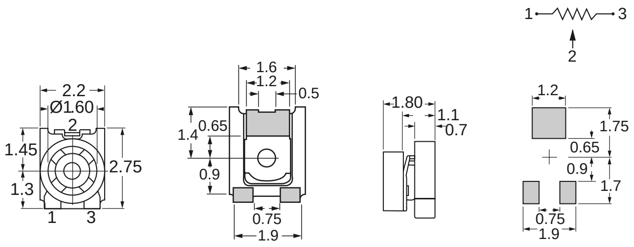
Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 200-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20.; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C to +85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 20; **Soldering Heat:** 240C 5s



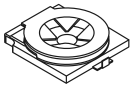
Series P2X – Panasonic Series #EVM-2XSX50BXX



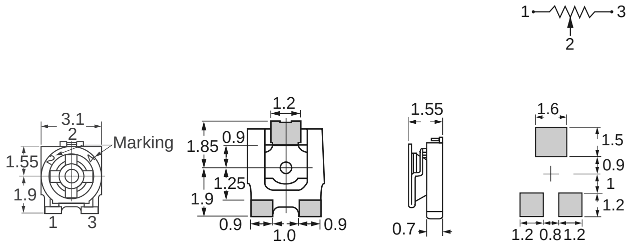
Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 200-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C to +85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 20; **Soldering Heat:** 240C 5s



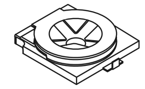
Series P3Y – Panasonic Series #EVM-3YSX50BXX



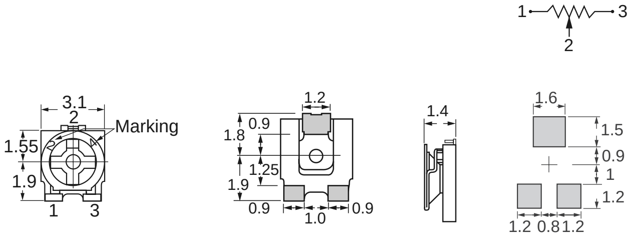
Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 100-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C to +85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C) ; **Rotation Life:** 20; **Soldering Heat:** 240C 5s



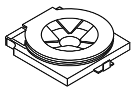
Series P3V – Panasonic Series #EVM-3VSX50BXX



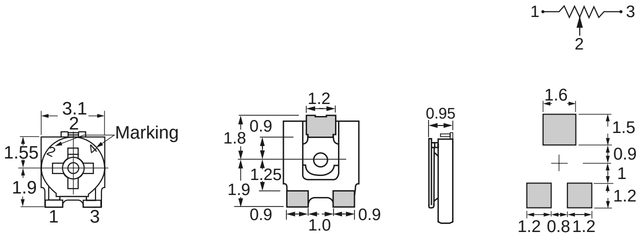
Features: • 3mm open frame type for reflow soldering • Rotation stopper feature; **Resistance Range:** 500-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 240 ±20; **Rotation Torque:** 20-100 gF; **Operating Temperature:** -20°C to +85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 20; **Soldering Heat:** 240C 5s



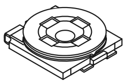
Series P3W – Panasonic Series #EVM-3WSX80BXX



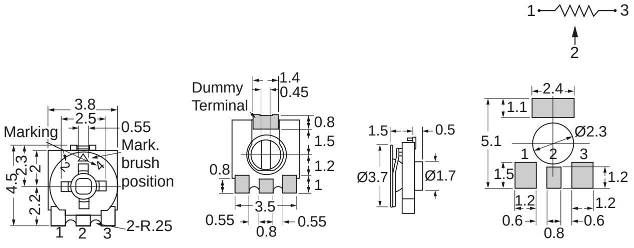
Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 100-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 240 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C to +85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C to +85°C); **Rotation Life:** 20; **Soldering Heat:** 240C 5s



Series P1U – Panasonic Series #EVM-1USX30BXX



Features: • 4mm open frame type for reflow soldering; **Resistance Range:** 100-1M OHM; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C to +100°C; **Temperature Coefficient:** ±250 ppm/C(+25°C to +100°C); **Rotation Life:** 20; **Soldering Heat:** 240C 5s



Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	2,000	3,000	Panasonic Part No.
P2W☐ ☐ ☐ CT-ND†	.47	3.93	36.18	P2W☐ ☐ ☐ TR-ND†	—	—	242.00/M	EVM-2WSX80BXX*
P2X☐ ☐ ☐ CT-ND†	.61	5.05	46.46	P2X☐ ☐ ☐ TR-ND†	—	311.00/M	—	EVM-2XSX50BXX*
P3Y☐ ☐ ☐ CT-ND†	.42	3.50	32.20	P3Y☐ ☐ ☐ TR-ND†	—	215.00/M	—	EVM-3YSX50BXX*
P3V☐ ☐ ☐ CT-ND†	.52	4.35	40.02	P3V☐ ☐ ☐ TR-ND†	—	268.00/M	—	EVM-3VSX50BXX*
P3W☐ ☐ ☐ CT-ND†	.52	4.35	40.02	P3W☐ ☐ ☐ TR-ND†	—	—	268.00/M	EVM-3WSX80BXX*
P1U☐ ☐ ☐ CT-ND†	.61	5.05	46.46	P1U☐ ☐ ☐ TR-ND†	311.00	—	—	EVM-1USX30BXX*

***** For assistance with Panasonic Part Number please call Digi-Key.

† For complete number, substitute corresponding code (from chart) for ☐ ☐ ☐.

Code Resistance Value For P2W / P2X Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
201 (200) 203 (20K)	501 (500) 503 (50K)	102 (1.0K) 104 (100K)	202 (2.0K) 204 (200K)	502 (5.0K) 504 (500K)	103 (10K) 105 (1.0M)

Code Resistance Value For P3Y / P3W / P1U Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 203 (20K)	201 (200) 503 (50K)	501 (500) 104 (100K)	102 (1.0K) 204 (200K)	202 (2.0K) 504 (500K)	502 (5.0K) 105 (1.0M)	103 (10K)

Code Resistance Value For P3V Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
501 (500) 104 (100K)	102 (1K) 204 (200K)	202 (2K) 504 (500K)	502 (5K) 105(1M)	103 (10K)	203 (20K)	503 (50K)

Panasonic® 6mm Square Ceramic Trimmer Potentiometers

EVM-EAG / EAS / EGG / EGS Series:

Dustproof Type with Knob Protection: Features: • No readjustment needed through knob protected construction • Excellent mounting efficiency due to cubic shape • Automated adjustment available. Face side: Standard cross slot screwdriver suited to automatic adjustment applicable. Back side: Penetrated slot for easy driving. **Applications:** • Audio visual equipment, home appliances.

Specifications • Rotation Torque: 20 to 300gf•cm. • Stopper Strength: 500gf•cm. • Rotation Angle: 210°C ±20°C. • TCR: ±200ppm (-30°C - 100°C) • Nominal Total Resistance & Tolerance: ±25% • Power Rating & Max. Operating Voltage: 0.3W, 100V (70°C) • Residual Resistance: 10Ω max. for R≤1kΩ, 1% max. for 1kΩ<R<100kΩ, 5% max. for R≥100kΩ • Soldering Heat: 5s max. 240 to 280°C, 3s max. 280 to 300°C • Rotation Life: 50 turns.

EVM-EYG and EVM-EYS Series:

Specifications: • Rotation Torque: 20 to 300gf•cm. • Stopper Strength: 500gf•cm. • Rotation Angle: 210°C ±20°C. • TCR: ±100ppm (-40°C – 120°C) • Nominal Total Resistance & Tolerance: ±20% • Power Rating & Max. Operating Voltage: 0.5W, 200V (70°C) • Residual Resistance: 2% • Soldering Heat: 260°C ±5°C for 5 ±1 Sec. • Rotation Life: 50 turns.

EVM-AAS Series:

Specifications: • Resistance Range: 100Ω – 1mΩ • Tolerance: ±25% • Taper: Linear • Residual Resistance: 2% • Wattage Rating: 0.3W • Volt Rating: 100V • TCR: ±200ppm • Torque: 20 to 300gf • Stopper Strength: 350gf • Rotational Angle: 240°C ±20°C • Operational Temperature: -30°C – +100°C.

EVM-F6S Series:

Features: • Higher performance dustproof type. • Excellent reliability for heat and humidity. • High speed radial automatic mounting and excellent mounting performance.

Applications: • Audio visual equipment, home appliances.

Specifications: • Rotation Torque: 20 to 300gf cm. • Stopper Strength: 350gf cm. • Rotation Angle: 240°C ±20°C. • TCR: ±300ppm (-30°C - 100°C) • Nominal Total Resistance & Tolerance: ±25% • Power Rating & Max. Operating Voltage: 0.3W, 100V (70°C) • Residual Resistance: 10Ω max. for R≤1kΩ, 1% max. for 1kΩ<R<100kΩ, 5% max. for R≥100kΩ • Soldering Heat: 5s max. 240 to 280°C, 3s max. 280 to 300°C • Rotation Life: 50 turns.

Fig. 1 - Top Adjust

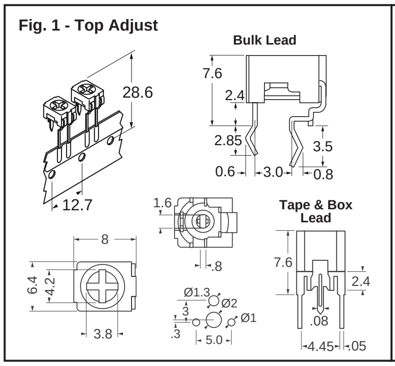


Fig. 2 - Side Adjust

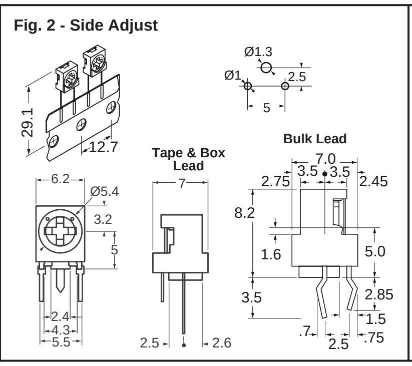


Fig. 3 - Top Adjust

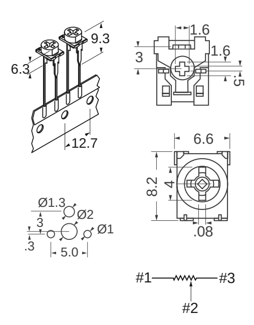
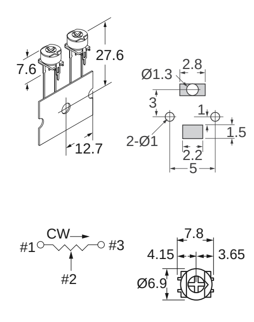


Fig. 4 - Top Adjust



EVM-EAG Series - Top Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
1	100	EAG12BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B12
	200	EAG22BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B22
	500	EAG52BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B52
	1K	EAG13BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B13
	2K	EAG23BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B23
	5K	EAG53BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B53
	10K	EAG14BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B14
	20K	EAG24BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B24
	50K	EAG54BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B54
	100K	EAG15BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B15
	200K	EAG25BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B25
	500K	EAG55BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B55
	1M	EAG16BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B16

EVM-EGG Series - Side Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
2	100	EGG12BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B12
	200	EGG22BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B22
	500	EGG52BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B52
	1K	EGG13BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B13
	2K	EGG23BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B23
	5K	EGG53BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B53
	10K	EGG14BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B14
	20K	EGG24BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B24
	50K	EGG54BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B54
	100K	EGG15BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B15
	200K	EGG25BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B25
	500K	EGG55BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B55
	1M	EGG16BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B16

EVM-EAS Series - Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	5,000	Panasonic Part No.
1	100	EAS12CT-ND	.59	4.90	45.08	EAS12TB-ND	362.00	336.00/M	EVM-EASA00B12
	200	EAS22CT-ND	.59	4.90	45.08	EAS22TB-ND	362.00	336.00/M	EVM-EASA00B22
	500	—	—	—	—	EAS52TB-ND	362.00	336.00/M	EVM-EASA00B52
	1K	EAS13CT-ND	.59	4.90	45.08	EAS13TB-ND	362.00	336.00/M	EVM-EASA00B13
	2K	EAS23CT-ND	.59	4.90	45.08	EAS23TB-ND	362.00	336.00/M	EVM-EASA00B23
	5K	EAS53CT-ND	.59	4.90	45.08	EAS53TB-ND	362.00	336.00/M	EVM-EASA00B53
	10K	—	—	—	—	EAS14TB-ND	362.00	336.00/M	EVM-EASA00B14
	20K	EAS24CT-ND	.59	4.90	45.08	EAS24TB-ND	362.00	336.00/M	EVM-EASA00B24
	50K	—	—	—	—	EAS54TB-ND	362.00	336.00/M	EVM-EASA00B54
	100K	—	—	—	—	EAS15TB-ND	362.00	336.00/M	EVM-EASA00B15
	200K	—	—	—	—	EAS25TB-ND	362.00	336.00/M	EVM-EASA00B25
	500K	EAS55CT-ND	.59	4.90	45.08	EAS55TB-ND	362.00	336.00/M	EVM-EASA00B55
	1M	EAS16CT-ND	.66	5.49	50.48	EAS16TB-ND	362.00	336.00/M	EVM-EASA00B16

EVM-EGS Series - Side Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	5,000	Panasonic Part No.
2	100	EGS12CT-ND	.65	5.40	49.68	EGS12TB-ND	372.00	346.00/M	EVM-EGSA00B12
	200	EGS22CT-ND	.65	5.40	49.68	EGS22TB-ND	372.00	346.00/M	EVM-EGSA00B22
	500	EGS52CT-ND	.65	5.40	49.68	EGS52TB-ND	372.00	346.00/M	EVM-EGSA00B52
	1K	EGS13CT-ND	.65	5.40	49.68	EGS13TB-ND	372.00	346.00/M	EVM-EGSA00B13
	2K	EGS23CT-ND	.65	5.40	49.68	EGS23TB-ND	372.00	346.00/M	EVM-EGSA00B23
	5K	EGS53CT-ND	.65	5.40	49.68	EGS53TB-ND	372.00	346.00/M	EVM-EGSA00B53
	10K	EGS14CT-ND	.65	5.40	49.68	EGS14TB-ND	372.00	346.00/M	EVM-EGSA00B14
	20K	EGS24CT-ND	.65	5.40	49.68	EGS24TB-ND	372.00	346.00/M	EVM-EGSA00B24
	50K	EGS54CT-ND	.65	5.40	49.68	EGS54TB-ND	372.00	346.00/M	EVM-EGSA00B54
	100K	EGS15CT-ND	.65	5.40	49.68	EGS15TB-ND	372.00	346.00/M	EVM-EGSA00B15
	200K	—	—	—	—	EGS25TB-ND	372.00	346.00/M	EVM-EGSA00B25
	500K	EGS55CT-ND	.65	5.40	49.68	EGS55TB-ND	372.00	346.00/M	EVM-EGSA00B55
	1M	—	—	—	—	EGS16TB-ND	372.00	346.00/M	EVM-EGSA00B16

EVM-EYG Series — High Grade, Top Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
1	1K	EYG13BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B13
	2K	EYG23BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B23
	5K	EYG53BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B53
	10K	EYG14BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B14
	20K	EYG24BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B24
	50K	EYG54BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B54
	100K	EYG15BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B15
	200K	EYG25BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B25
	500K	EYG55BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B55
	1M	EYG16BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B16
	2M	EYG26BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B26

EVM-F6S Series — Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	5,000	Panasonic Part No.
3	500	F6SA52CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B52
	1K	—	—	—	—	F6SA13TB-ND	213.00	197.00/M	EVM-F6SA00B13
	5K	F6SA53CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B53
	50K	F6SA54CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B54
	100K	F6SA15CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B15
	200K	F6SA25CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B25
	500K	F6SA55CT-ND	.38	3.28	27.20	F6SA55TB-ND	213.00	197.00/M	EVM-F6SA00B55
	1M	F6SA16CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B16

EVM-EYS Series — High Grade, Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Tape & Box Pricing 1,000	5,000	10,000	Panasonic Part No.
1	1K	EYS13TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B13
	2K	EYS23TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B23
	5K	EYS53TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B53
	10K	EYS14TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B14
	20K	EYS24TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B24
	50K	EYS54TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B54
	100K	EYS15TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B15
	200K	EYS25TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B25
	500K	EYS55TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B55
	1M	EYS16TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B16
	2M	EYS26TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B26

EVM-AAS Series - Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	Panasonic Part No.
4	100	AAS12CT-ND	.50	4.15	38.18	AAS12TB-ND	255.00	EVM-AASA00B12
	200	AAS22CT-ND	.50	4.15	38.18	AAS22TB-ND	255.00	EVM-AASA00B22
	500	AAS52CT-ND	.50	4.15	38.18	AAS52TB-ND	255.00	EVM-AASA00B52
	1K	AAS13CT-ND	.50	4.15	38.18	AAS13TB-ND	255.00	EVM-AASA00B13
	2K	AAS23CT-ND	.50	4.15	38.18	AAS23TB-ND	255.00	EVM-AASA00B23
	5K	AAS53CT-ND	.50	4.15	38.18	AAS53TB-ND	255.00	EVM-AASA00B53
	10K	AAS14CT-ND	.50	4.15	38.18	AAS14TB-ND	255.00	EVM-AASA00B14
	20K	AAS24CT-ND	.50	4.15	38.18	AAS24TB-ND	255.00	EVM-AASA00B24
	50K	AAS54CT-ND	.50	4.15	38.18	AAS54TB-ND	255.00	EVM-AASA00B54
	100K	AAS15CT-ND	.50	4.15	38.18	AAS15TB-ND	255.00	EVM-AASA00B15
	200K	AAS25CT-ND	.50	4.15	38.18	AAS25TB-ND	255.00	EVM-AASA00B25
	500K	AAS55CT-ND	.50	4.15	38.18	AAS55TB-ND	255.00	EVM-AASA00B55
	1M	AAS16CT-ND	.50	4.15	38.18	AAS16TB-ND	255.00	EVM-AASA00B16

Panasonic Ceramic Trimmer Potentiometers

Series EVM-L4G, EVM-L1G, EVM-5AG, and EVM-4LG

Specifications:

- Resistance Range: 100Ω – 1mΩ
- Tolerance: 25%
- Taper: Linear
- Residual: EVM-L4G and EVM-L1G: 5%
  EVM-5AG and EVM-4LG: 2%
- Wattage Rating: EVM-L4G and EVM-L1G: .2W;
  EVM-5AG and EVM-4LG: .3W
- Voltage Rating: EVM-L4G and EVM-L1G: 50V;
  EVM-5AG and EVM-4LG: 100V
- TCR: EVM-L4G and EVM-L1G: ±300ppm;
  EVM-5AG and EVM-4LG: ±200ppm
- Torque: 20-250 gf
- Stopper Strength: EVM-L4G and EVM-L1G: 400gF;
  EVM-5AG and EVM-4LG: 300gF
- Angle of Rotation: 200° ±20°
- Operating Temperature: –30°C to +100°C

Fig. 1 — 4mm,Vertical

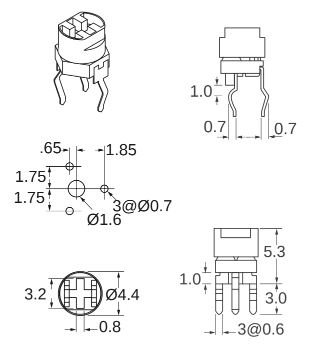


Fig. 2 — 4mm, Right Angle

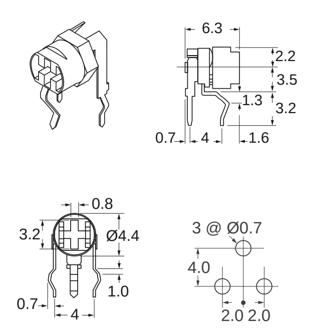


Fig. 3 — 5mm, Vertical

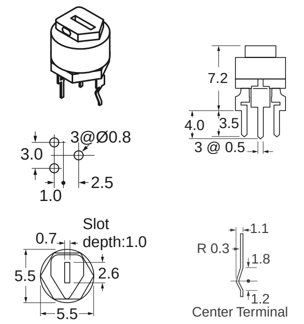


Fig. 4 — 6mm, Vertical

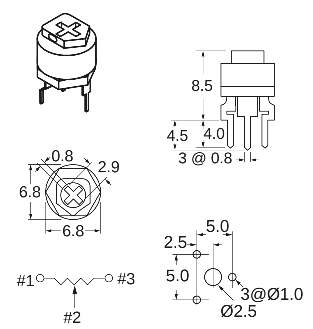
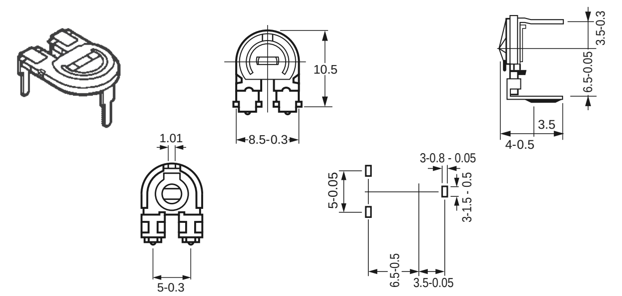


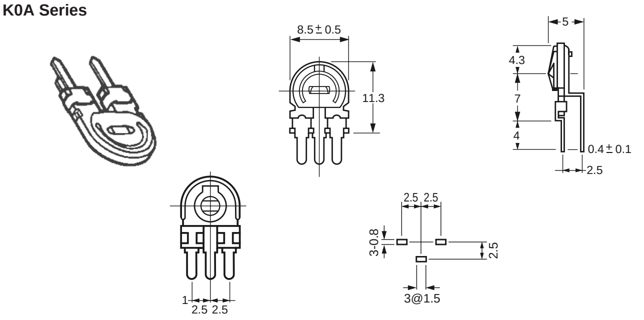
Fig.	Res. (Ohms)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
		EVM-L4G Series — 4mm, Vertical, Top Adjust					
1	100	L4G12BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B12
	200	L4G22BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B22
	500	L4G52BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B52
	1K	L4G13BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B13
	2K	L4G23BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B23
	5K	L4G53BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B53
	10K	L4G14BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B14
	20K	L4G24BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B24
	50K	L4G54BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B54
	100K	L4G15BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B15
	200K	L4G25BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B25
	500K	L4G55BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B55
	1M	L4G16BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B16
		EVM-L1G Series — 4mm, Right Angle, Side Adjust					
2	100	L1G12BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B12
	200	L1G22BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B22
	500	L1G52BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B52
	1K	L1G13BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B13
	2K	L1G23BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B23
	5K	L1G53BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B53
	10K	L1G14BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B14
	20K	L1G24BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B24
	50K	L1G54BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B54
	100K	L1G15BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B15
	200K	L1G25BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B25
	500K	L1G55BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B55
	1M	L1G16BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B16
		EVM-5AG Series — 5mm, Vertical, Top Adjust					
3	100	5AG12BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B12
	200	5AG22BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B22
	500	5AG52BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B52
	1K	5AG13BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B13
	2K	5AG23BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B23
	5K	5AG53BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B53
	10K	5AG14BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B14
	20K	5AG24BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B24
	50K	5AG54BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B54
	100K	5AG15BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B15
	200K	5AG25BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B25
	500K	5AG55BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B55
	1M	5AG16BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B16
		EVM-4LG Series — 6mm, Vertical, Top Adjust					
4	100	4LG12BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B12
	200	4LG22BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B22
	500	4LG52BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B52
	1K	4LG13BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B13
	2K	4LG23BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B23
	5K	4LG53BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B53
	10K	4LG14BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B14
	20K	4LG24BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B24
	50K	4LG54BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B54
	100K	4LG15BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B15
	200K	4LG25BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B25
	500K	4LG55BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B55
	1M	4LG16BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B16

8mm Trimmer Potentiometers EVN-Series

K4A Series



K0A Series

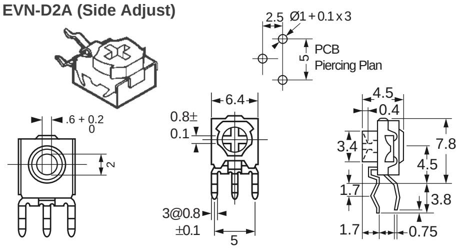


Specifications:
• Resistance Range: 300 to 2MΩ • Taper: Linear • Tolerance: ±30% • Working Voltage: 200V max. • Power Rating: 0.1 W/50°C • Residual Resistance:Up to 1kΩ: 10Ω max. Over 1kΩ: 5% of total resistance • Rotation Angle: 260° ± 20° • Rotation Torque: 0.4 to 4.2 in-oz. • Stop Strength: 1 in. lb. • Operating Temperature: –25°C to +75°C

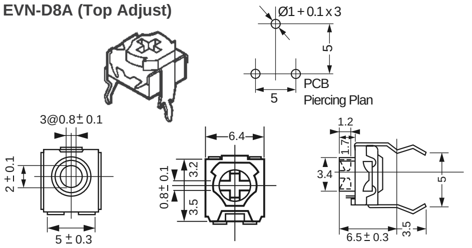
Res. Ohms	Digi-Key Part No. Laydown Version	Digi-Key Part No. Standup Version	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No. Laydown Version	Panasonic Part No. Standup Version
300	—	K0A32-ND	.31	2.59	23.81	159.00	148.00/M	138.00/M	—	EVN-64AA00B32
2K	K4A23-ND	K0A23-ND	.31	2.59	23.81	159.00	148.00/M	138.00/M	EVN-65AA00B23	EVN-64AA00B23

Panasonic 6mm Carbon Trimmer Potentiometers

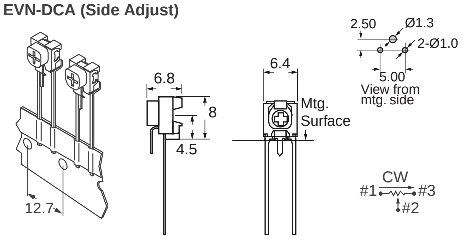
EVN-D2A (Side Adjust)



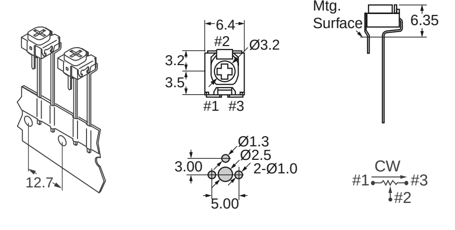
EVN-D8A (Top Adjust)



EVN-DCA (Side Adjust)



EVN-DJA (Top Adjust)



SPECIFICATIONS:

Mechanical: • **Rotation angle:** 210° ±20° • **Rotation torque:** 20 to 250g-cm • **Stopper Strength:** 750gfcm • **Soldering Heat:** 240°C to 280°C, 5 sec. max.; 280°C to 300°C, 3 sec. max. • **Rotation life:** 100 cycles

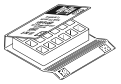
Electrical: • Power rating: 0.1W (when under 50°C) • Max. operating voltage: 50V • Taper: B (Linear) • Resistance: 200Ω to 1MΩ • Tolerance: ±30%.

FEATURES:
• Miniature size, lightweight, 6.4 x 6.7mm • Suitable for automatic insertion as square housing • Suitable for automatic adjustment as stable rotation torque • Dust proof and flux proof construction • Adjustable from both top and bottom sides • Snap-in mounting terminal for EVN-D8A/D2A

Applications:
• Consumer equipment such as TV, VTR (VCR), stereo, radio.

Panasonic

Carbon Trimmer Potentiometers



Digi-Key® Assortment Kit
14 Panasonic 6mm Carbon Trimmer Potentiometers
Panasonic Quality

Cat. No. DXA-KIT-ND ....*ONLY* **$29.95**

140 6mm Carbon Trimmer Potentiometers: Price includes convenient divided notebook style storage case with bin guide for easy storage and quick access.

EVN-D2A Side Adjust (Bulk) Series
EVN-D8A Top Adjust (Bulk) Series

Res. (Ω)	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	Bulk Price Each 1	10	100	500	1,000	Panasonic Part No. Side Adjust Version	Panasonic Part No. Top Adjust Version
200	D1AA22-ND*	D4AA22-ND*	.36	.27	.20	.15	.12	EVN-D2AA03B22	EVN-D8AA03B22
500	D1AA52-ND*	D4AA52-ND	.36	.27	.20	.15	.12	EVN-D2AA03B52	EVN-D8AA03B52
1K	D1AA13-ND*	D4AA13-ND*	.36	.27	.20	.15	.12	EVN-D2AA03B13	EVN-D8AA03B13
2K	D1AA23-ND	D4AA23-ND	.36	.27	.20	.15	.12	EVN-D2AA03B23	EVN-D8AA03B23
5K	D1AA53-ND*	D4AA53-ND*	.36	.27	.20	.15	.12	EVN-D2AA03B53	EVN-D8AA03B53
10K	D1AA14-ND	D4AA14-ND	.36	.27	.20	.15	.12	EVN-D2AA03B14	EVN-D8AA03B14
20K	D1AA24-ND*	D4AA24-ND	.36	.27	.20	.15	.12	EVN-D2AA03B24	EVN-D8AA03B24
50K	D1AA54-ND*	D4AA54-ND	.36	.27	.20	.15	.12	EVN-D2AA03B54	EVN-D8AA03B54
100K	D1AA15-ND*	D4AA15-ND*	.36	.27	.20	.15	.12	EVN-D2AA03B15	EVN-D8AA03B15
200K	D1AA25-ND*	D4AA25-ND	.36	.27	.20	.15	.12	EVN-D2AA03B25	EVN-D8AA03B25
500K	D1AA55-ND*	D4AA55-ND*	.36	.27	.20	.15	.12	EVN-D2AA03B55	EVN-D8AA03B55

* Denotes part included in DXA-KIT.

EVN-DCA Side Adjust (Tape) Series
EVN-DJA Top Adjust (Tape) Series

Res. (Ω)	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	Cut Tape Price Each 1	10	100	500	Tape & Box * Pricing 1,000	Panasonic Part No. Side Adjust Version	Panasonic Part No. Top Adjust Version
200	DCA22CT-ND	DJA22CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B22	EVN-DJAA03B22
500	DCA52CT-ND	DJA52CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B52	EVN-DJAA03B52
1K	DCA13CT-ND	DJA13CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B13	EVN-DJAA03B13
2K	DCA23CT-ND	DJA23CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B23	EVN-DJAA03B23
5K	DCA53CT-ND	DJA53CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B53	EVN-DJAA03B53
10K	DCA14CT-ND	DJA14CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B14	EVN-DJAA03B14
20K	DCA24CT-ND	DJA24CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B24	EVN-DJAA03B24
50K	DCA54CT-ND	DJA54CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B54	EVN-DJAA03B54
100K	DCA15CT-ND	DJA15CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B15	EVN-DJAA03B15
200K	DCA25CT-ND	DJA25CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B25	EVN-DJAA03B25
500K	DCA55CT-ND	DJA55CT-ND	.41	.30	.23	.17	129.00	EVN-DCAA03B55	EVN-DJAA03B55

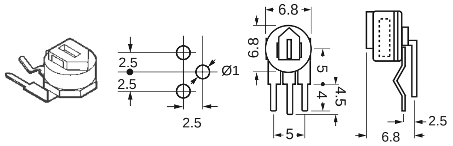
* For Tape and Box Part No. change “CT-ND” to “TB-ND”

Panasonic Cermet Series Trimmer Potentiometers
6mm Diameter Cermet Dust-Proof Type

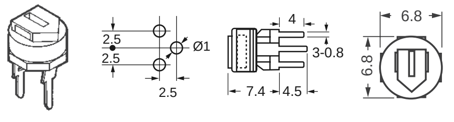
SPECIFICATIONS:
- **Resistance Range:** 100 to 1MΩ
- **Tolerance:** ±25%
- **Taper:** Linear
- **Residual Resistance:** 5% max.
- **Wattage Rating:** 0.3W max. (70°C)
- **Voltage Rating:** 100V max.
- **TCR:** ±200PPM/°C
- **Rotation Torque:** 20 to 250g-cm
- **Stopper Strength**: 300g-cm min.
- **Rotation Angle:** 200° ±20°
- **Operating Temperature:** 20°C to 100°C (EVN-36CA)
  -40° to 101°C (EVM-31G/36G)

Cross Reference Chart	
Series	**Bourns**
31G	3306W
36C/36GA	3306P

EVM-31GA (Horizontal Both Sides Adjust)



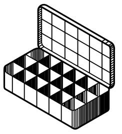
EVN-36CA*
EVM-36GA **(Vertical Both Sides Adjust)**



Panasonic

Cermet Potentiometers

Digi-Key® Assortment Kits
13 Popular Cermet Trimmers
Panasonic Quality



31G-KIT-ND **$52.95**
36G-KIT-ND **$52.95**

130 Cermet Trimmers
Price includes convenient divided plastic box with bin guide for easy storage and quick access.

Res. Ohms	Digi-Key Part No. Horizontal 31GA	Digi-Key Part No. Vertical 36CA	36GA	Price Each 1	10	100	Panasonic Part No. Horizontal 31GA	Panasonic Part No. Vertical 36CA	36GA
100	31G12-ND	—	36G12-ND	.67	.53	.47	EVM-31GA00B12	—	EVM-36GA00B12
200	31G22-ND	—	36G22-ND	.67	.53	.47	EVM-31GA00B22	—	EVM-36GA00B22
500	31G52-ND	—	36G52-ND	.67	.53	.47	EVM-31GA00B52	—	EVM-36GA00B52
1K	31G13-ND	—	36G13-ND	.67	.53	.47	EVM-31GA00B13	—	EVM-36GA00B13
2K	31G23-ND	—	36G23-ND	.67	.53	.47	EVM-31GA00B23	—	EVM-36GA00B23
5K	31G53-ND	—	36G53-ND	.67	.53	.47	EVM-31GA00B53	—	EVM-36GA00B53
10K	31G14-ND	—	36G14-ND	.67	.53	.47	EVM-31GA00B14	—	EVM-36GA00B14
20K	31G24-ND	—	36G24-ND	.67	.53	.47	EVM-31GA00B24	—	EVM-36GA00B24
50K	31G54-ND	—	36G54-ND	.67	.53	.47	EVM-31GA00B54	—	EVM-36GA00B54
100K	31G15-ND	—	36G15-ND	.67	.53	.47	EVM-31GA00B15	—	EVM-31GA00B15
200K	31G25-ND	36C25-ND*	36G25-ND	.67	.53	.47	EVM-31GA00B25	EVN-36CA00B25*	EVM-36GA00B25
500K	31G55-ND	—	36G55-ND	.67	.53	.47	EVM-31GA00B55	—	EVM-36GA00B55
1M	31G16-ND	—	36G16-ND	.67	.53	.47	EVM-31GA00B16	—	EVM-36GA00B16

* Not for new design, use EVM-36GA type

Panasonic Slide Switches

Fig. 1

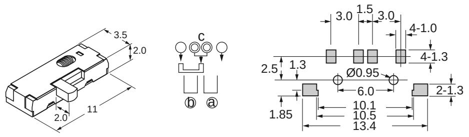


Fig. 2

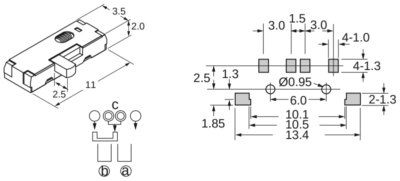


Fig. 3

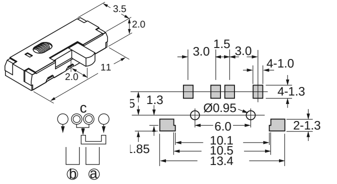


Fig. 4

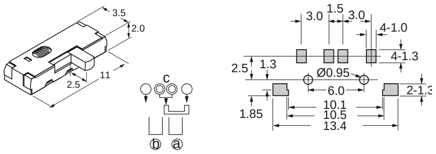


Fig. 5

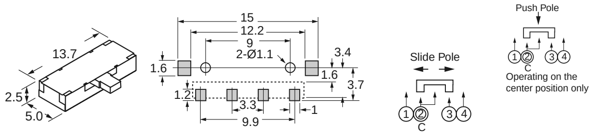


Fig. 6

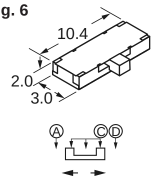


Fig.	Description	Rating	OP Force	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
1	SMD 2mm Horizontal Self-return	5VDC 200mA	216gf	P11157SCT-ND	2.35	1.77	1.53	1.18	P11157STR-ND	2,000	853.00/M	ESD-165225
2	SMD 2mm Horizontal Self-return	5VDC 200mA	216gf	P11158SCT-ND	2.35	1.77	1.53	1.18	P11158STR-ND	2,000	853.00/M	ESD-165226
3	SMD 2mm Horizontal Self-return	5VDC 200mA	216gf	P11159SCT-ND	2.35	1.77	1.53	1.18	P11159STR-ND	2,000	853.00/M	ESD-165235
4	SMD 2mm Horizontal Self-return	5VDC 200mA	216gf	P11160SCT-ND	2.35	1.77	1.53	1.18	P11160STR-ND	2,000	853.00/M	ESD-165236
5	SMD Multi Function Slide + Push	10VDC 1mA	40gf	P11155SCT-ND	6.72	5.04	4.37	3.36	P11155STR-ND	1,400	2520.00/M	ESE-15700
6	SMD Multi Function Slide	10VDC 1mA	125gf	P11156SCT-ND	2.02	1.52	1.32	1.01	P11156STR-ND	1,500	756.00/M	ESE-15800

Panasonic Detector Switches

Fig. 1

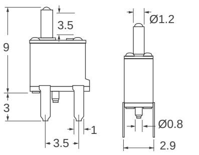


Fig. 2

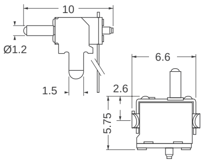


Fig. 3 — Surface Mount

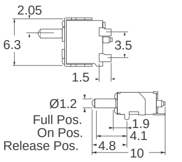


Fig. 4

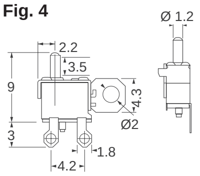


Fig. 5

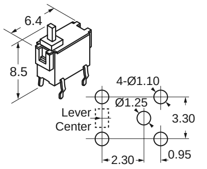


Fig. 6

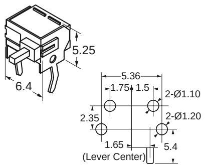


Fig. 7

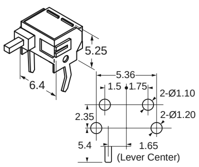


Fig. 8

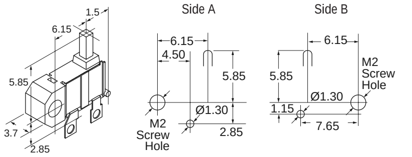


Fig. 9

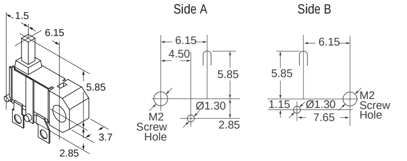


Fig. 10 — Surface Mount

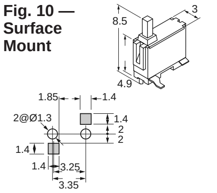


Fig. 11

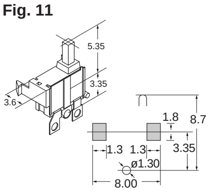


Fig. 12 — Surface Mount

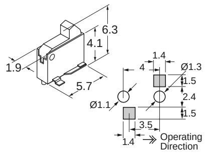


Fig. 13

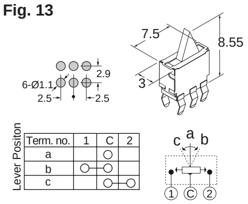


Fig. 14

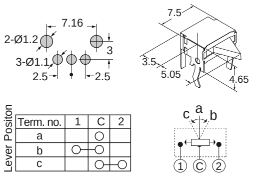


Fig. 15 — Surface Mount

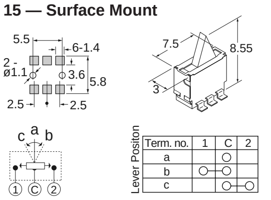


Fig.	Description	Rating	OP Force	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Panasonic Part No.
1	PC 5mm Vertical Mount	5VDC 10mA	35gf	P8039S-ND	.95	.71	.62	—	.40	ESE-105SV1
2	PC 5mm Horizontal Mount	5VDC 10mA	35gf	P8040S-ND	1.08	.81	.70	—	.45	ESE-105SH1
3	Surface Mount, 5mm Horiz. Mount	5VDC 10mA	35gf	P8043S-ND	.86	.73	.67	—	.41	ESE-105MH1
4	Panel 5mm w/ Mounting Hole	5VDC 10mA	35gf	P8041S-ND	.99	.75	.65	—	.42	ESE-105HS1
5	PC 5mm Vertical Mount	5VDC 10mA	35gf	P8062S-ND	.71	.54	.47	.38	.32	ESE-11SV1
6	PC 5mm Horizontal Mount	5VDC 10mA	35gf	P10862S-ND	.71	.54	.47	.36	.30	ESE-11SH1C
7	PC 5mm Horizontal Mount	5VDC 10mA	35gf	P10863S-ND	.71	.54	.47	.36	.30	ESE-11SH2C
8	Tabbed 5mm with Mounting Hole	5VDC 10mA	35gf	P10864S-ND	.78	.59	.51	.40	.33	ESE-11HS1
9	Tabbed 5mm with Mounting Hole	5VDC 10mA	35gf	P10865S-ND	.78	.59	.51	.40	.33	ESE-11HS2
10	SMD 5mm Vertical Mount	5VDC 10mA	35gf	P10866S-ND	.78	.59	.51	.40	.33	ESE-11MV1
11	Snap-In 5mm w/Tabs, Horiz. Mount	5VDC 10mA	35gf	P10867S-ND	.78	.59	.51	.40	.33	ESE-11SF1
12	SMD 5mm Vertical Mount	5VDC 10mA	30gf	P10868S-ND	.78	.59	.51	.40	.33	ESE-22MV1
13	PC 5mm Vertical Mount SPDT	5VDC 10mA	35.7gf	P10870S-ND	1.12	.84	.73	.56	.47	ESE-24SV3
14	PC 5mm Horizontal Mount SPDT	5VDC 10mA	35.7gf	P10871S-ND	1.12	.84	.73	.56	.47	ESE-24SH1
15	SMD 5mm Vertical Mount SPDT	5VDC 10mA	35.7gf	P10872S-ND	1.12	.84	.73	.56	.47	ESE-24MV1

(Continued)

Panasonic Detector Switches *(Cont.)*

Fig. 16

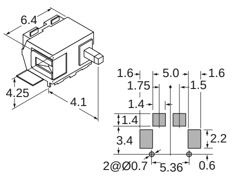


Fig. 17

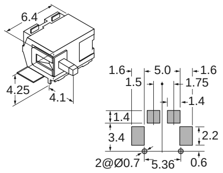


Fig. 18

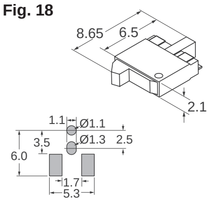


Fig. 19

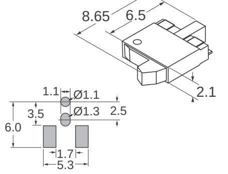


Fig. 20 — Surface Mount

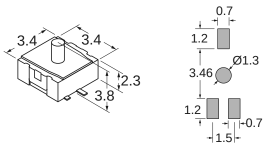


Fig. 21

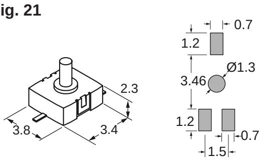


Fig. 22

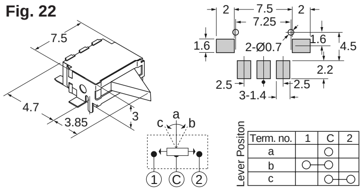


Fig. 23

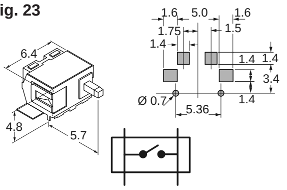


Fig. 24

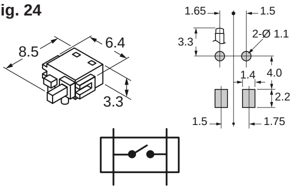


Fig. 25

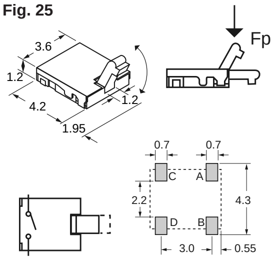


Fig. 26

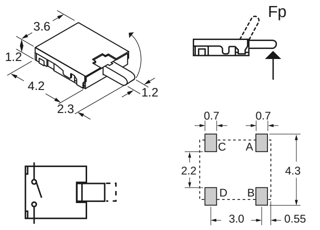


Fig. 27

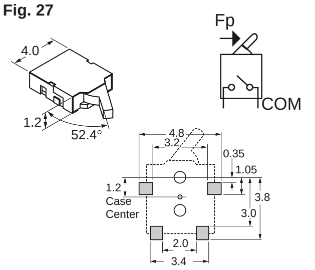


Fig. 28

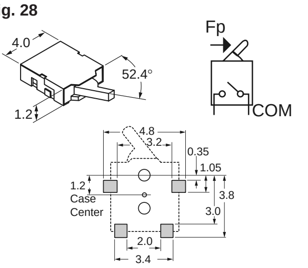


Fig.	Description	Rating	OP Force	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
16	SMD 5mm Horiz. Mount	5VDC 10mA	35.7gf	P8097SCT-ND	.82	.62	.54	.41	P8097STR-ND	1,500	308.00/M	ESE-11MH1T
17	SMD 5mm Horiz. Mount	5VDC 10mA	35.7gf	P8098SCT-ND	.82	.62	.54	.41	P8098STR-ND	1,500	308.00/M	ESE-11MH2T
18	SMD 2mm Horiz. Mount	5VDC 10mA	31gf	P8094SCT-ND	.82	.62	.54	.41	P8094STR-ND	4,000	297.00/M	ESE-22MH2
19	SMD 2mm Horiz. Mount	5VDC 10mA	31gf	P8095SCT-ND	.82	.62	.54	.41	P8095STR-ND	4,000	297.00/M	ESE-22MH4
20	SMD 2mm Vert. Mount	5VDC 10mA	31gf	P8096SCT-ND	.82	.62	.54	.41	P8096STR-ND	2,000	308.00/M	ESE-2101BT
21	SMD 5mm Vert. Mount	5VDC 10mA	31gf	P10869SCT-ND	.78	.59	.51	.40	P10869STR-ND	2,000	294.00/M	ESE-2131BT
22	SMD 5mm Horiz. Mount SPDT	5VDC 10mA	35.7gf	P10873SCT-ND	1.12	.84	.73	.56	P10873STR-ND	1,000	405.00	ESE-24MH1T
23	SMD 5mm Horiz. Mount	5VCD 10mA	36gf	P11149SCT-ND	.74	.56	.49	.37	P11149STR-ND	1,500	277.00/M	ESE-11MH5T
24	SMD 5mm Horiz. Mount	5VCD 10mA	36gf	P11150SCT-ND	.74	.56	.49	.37	P11150STR-ND	1,500	277.00/M	ESE-11MH6T
25	SMD 1mm Horiz. Mount flip down	5VCD 10mA	30gf	P11151SCT-ND	1.08	.81	.70	.54	P11151STR-ND	3,000	390.00/M	ESE-13V01
26	SMD 1mm Horiz. Mount flip up	5VCD 10mA	30gf	P11152SCT-ND	1.08	.81	.70	.54	P11152STR-ND	5,000	390.00/M	ESE-13H01
27	SMD 1mm Horiz. Mount	5VCD 10mA	30gf	P11153SCT-ND	1.01	.76	.66	.51	P11153STR-ND	5,000	365.00/M	ESE-18RJ02
28	SMD 1mm Horiz. Mount	5VCD 10mA	30gf	P11154SCT-ND	1.01	.76	.66	.51	P11154STR-ND	5,000	365.00/M	ESE-18LJ02

Panasonic Power / Push Switches

* UL, CSA, BEAB, SEMKO, VDE, SEV, FIMKO, NEMKO, DEMKO, APPROVED

Fig. 1

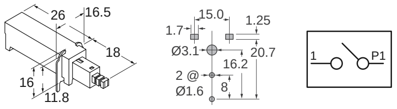


Fig. 2

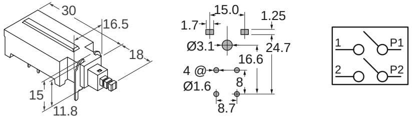


Fig. 3

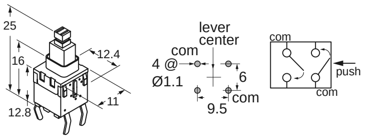


Fig. 4

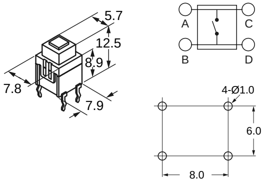


Fig. 5

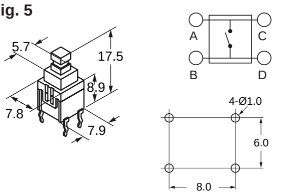


Fig. 6

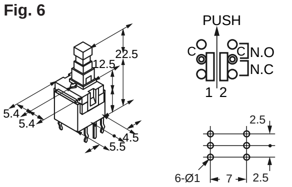


Fig. 7

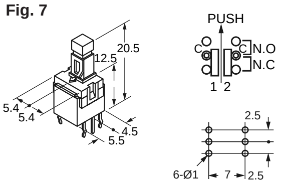
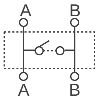


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Panasonic Part No.
1	Power Switch SPST 5A, 250VAC	P8100S-ND*	2.32	1.75	1.52	1.17	—	ESB-92S21B
2	Power Switch DPST 5A, 250VAC	P8101S-ND*	3.62	2.72	2.36	1.82	—	ESB-92D21B
3	Push Switch DPST 3A, 12VDC	P8102S-ND	3.08	2.31	2.00	1.54	1.16	ESB-32101A
4	Push Switch Momentary SPST, 200mA, 14VDC	P11161S-ND	2.02	1.52	1.32	1.01	—	ESE-20C321
5	Push Switch Momentary SPST, 200mA, 14VDC	P11162S-ND	2.02	1.52	1.32	1.01	—	ESE-20C441
6	Push Switch Soft Sound DPDT, 200mA, 14VDC	P11163S-ND	2.69	2.02	1.75	1.35	—	ESB-30A105
7	Push Switch Soft Sound DPDT, 200mA, 14VDC	P11164S-ND	2.69	2.02	1.75	1.35	—	ESB-30B102

Panasonic Momentary Push Button Switches

CIRCUIT DIA. 1



CIRCUIT DIA. 2

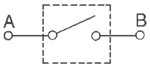


Fig. 1

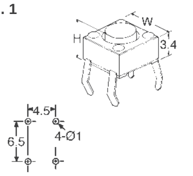


Fig. 2

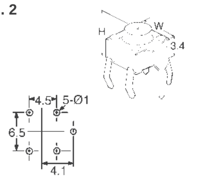


Fig. 3

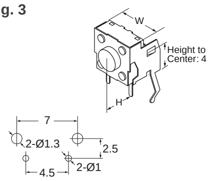


Fig. 4

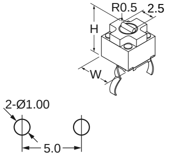


Fig. 5

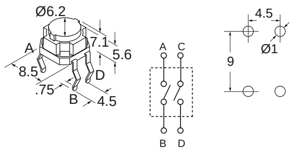


Fig. 6

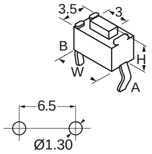


Fig. 7

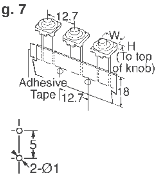


Fig. 8

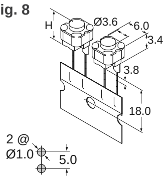


Fig. 9

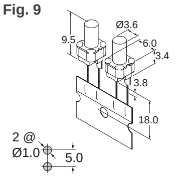


Fig. 10

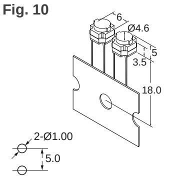


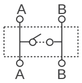
Fig.	Description	Circuit Dia.	Dim. (mm) H	W	Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
	6mm Type													
1	Light Touch Switch Standard	1	4.3	6	100gf	15	20	100K	P8006S-ND	.29	.22	.19	.13	EVQ-PAC04M
	Light Touch Switch Standard	1	4.3	6	130gf	15	20	100K	P8007S-ND	.29	.22	.19	.13	EVQ-PAD04M
	Light Touch Switch Standard	1	4.3	6	160gf	15	20	100K	P8008S-ND	.29	.22	.19	.13	EVQ-PAE04M
	Light Touch Switch Standard	1	4.3	6	250gf	15	20	100K	P8009S-ND	.29	.22	.19	.13	EVQ-PAG04M
	Light Touch Switch Standard	1	5	6	100gf	15	20	100K	P8010S-ND	.29	.22	.19	.13	EVQ-PAC05R
	Light Touch Switch Standard	1	5	6	130gf	15	20	100K	P10890S-ND	.42	.32	.28	.18	EVQ-PAD05R
	Light Touch Switch Standard	1	7	6	100gf	15	20	100K	P8011S-ND	.29	.22	.19	.13	EVQ-PAC07K
	Light Touch Switch Standard	1	7	6	130gf	15	20	100K	P10891S-ND	.50	.38	.33	.21	EVQ-PAD07K
	Light Touch Switch Standard (Long Post)	1	9.5	6	100gf	15	20	100K	P8012S-ND	.29	.22	.19	.13	EVQ-PAC09K
	Light Touch Switch Standard (Long Post)	1	9.5	6	130gf	15	20	100K	P10892S-ND	1.42	1.07	.93	.59	EVQ-PAD09K
2	Light Touch Switch Standard w/Ground Terminal	1	4.3	6	100gf	15	20	100K	P8013S-ND	.30	.23	.20	.13	EVQ-PBC04M
	Light Touch Switch Standard w/Ground Terminal	1	5	6	100gf	15	20	100K	P8014S-ND	.23	.18	.15	.10	EVQ-PBC05R
	Light Touch Switch Standard w/Ground Terminal	1	5	6	130gf	15	20	100K	P10893S-ND	.32	.25	.21	.14	EVQ-PBD05R
	Light Touch Switch Standard w/Ground Terminal	1	7	6	100gf	15	20	100K	P8015S-ND	.29	.23	.20	.13	EVQ-PBC07K
	Light Touch Switch Standard w/Ground Terminal	1	7	6	130gf	15	20	100K	P10894S-ND	.38	.29	.25	.16	EVQ-PBD07K
	Light Touch Switch Standard w/Ground Terminal (Long Post)	1	9.5	6	100gf	15	20	100K	P8016S-ND	.30	.23	.20	.13	EVQ-PBC09K
3	Light Touch Switch Right Angle	2	3.15	7.5	100gf	15	20	100K	P10877S-ND	.36	.27	.24	.15	EVQ-PF003M
	Light Touch Switch Right Angle	2	3.15	7.5	130gf	15	20	100K	P10881S-ND	.36	.27	.24	.15	EVQ-PF103M
	Light Touch Switch Right Angle	2	3.85	7.5	100gf	15	20	100K	P10878S-ND	.36	.27	.24	.15	EVQ-PF004R
	Light Touch Switch Right Angle	2	3.85	7.5	130gf	15	20	100K	P10882S-ND	.40	.30	.26	.17	EVQ-PF104R
	Light Touch Switch Right Angle	2	5.85	7.5	100gf	15	20	100K	P10879S-ND	.36	.27	.24	.15	EVQ-PF006K
	Light Touch Switch Right Angle	2	5.85	7.5	130gf	15	20	100K	P10883S-ND	.36	.27	.24	.15	EVQ-PF106K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	100gf	15	20	100K	P10880S-ND	.36	.27	.24	.15	EVQ-PF008K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	130gf	15	20	100K	P10884S-ND	.36	.27	.24	.15	EVQ-PF108K
4	Light Touch Switch With Over Travel	2	7.45	6.2	75gf	30	50	100K	P10843S-ND	.55	.42	.36	.23	EVQ-P0E07K
	Light Touch Switch With Over Travel	2	7.45	6.2	130gf	30	50	100K	P10844S-ND	.55	.42	.36	.23	EVQ-P0D07K
	DPST Bi-Directional Type													
5	Light Touch Switch	—	7.1	8.5	130gf	12	50	500K	P10859S-ND	1.46	1.10	.95	.61	EVQ-PW007K
	6mm x 3.5mm Type													
6	Light Touch Switch	2	4.3	6	100gf	12	20	50K	P8056S-ND	.71	.53	.46	.32	EVQ-PJA04Q
	Light Touch Switch (Long Post)	2	5	6	100gf	12	20	50K	P8057S-ND	.71	.53	.46	.32	EVQ-PJA05Q
	Light Touch Switch	2	4.3	6	160gf	12	20	50K	P8058S-ND	.78	.59	.51	.35	EVQ-PJB04K
	Light Touch Switch (Long Post)	2	5	6	160gf	12	20	50K	P8059S-ND	.71	.53	.46	.32	EVQ-PJB05K
	Light Touch Switch	2	4.3	6	240gf	12	20	50K	P8060S-ND	.73	.55	.48	.33	EVQ-PJC04T
	Light Touch Switch (Long Post)	2	5	6	240gf	12	20	50K	P8061S-ND	.73	.55	.48	.33	EVQ-PJC05T

Fig.	Description	Circuit Dia.	Dim. (mm) H	W	Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 2,500	Panasonic Part No.
	6mm Round Type														
7	L. T. Switch Long Travel-Tape Pkg	2	5	8	80gf	12	15	1000K	P8029SCT-ND	.81	.61	.53	P8029STB-ND*	310.00*	EVQ-QJJ05Q
8	Light Touch Switch	1	4.3	6.0	100gf	15	20	100K	P8070SCT-ND	.38	.29	.25	P8070STB-ND	141.00/M	EVQ-11A04M
	Light Touch Switch	1	4.3	6.0	130gf	15	20	100K	P8074SCT-ND	.38	.29	.25	P8074STB-ND	141.00/M	EVQ-11G04M
	Light Touch Switch	1	4.3	6.0	160gf	15	20	100K	P8078SCT-ND	.38	.29	.25	P8078STB-ND	141.00/M	EVQ-11L04M
	Light Touch Switch	1	4.3	6.0	260gf	15	20	100K	P8082SCT-ND	.38	.29	.25	P8082STB-ND	141.00/M	EVQ-11U04M
	Light Touch Switch	1	5.0	6.0	100gf	15	20	100K	P8071SCT-ND	.38	.29	.25	P8071STB-ND	141.00/M	EVQ-11A05R
	Light Touch Switch	1	5.0	6.0	130gf	15	20	100K	P8075SCT-ND	.38	.29	.25	P8075STB-ND	141.00/M	EVQ-11G05R
	Light Touch Switch	1	5.0	6.0	160gf	15	20	100K	P8079SCT-ND	.38	.29	.25	P8079STB-ND	141.00/M	EVQ-11L05R
	Light Touch Switch	1	5.0	6.0	260gf	15	20	100K	P8083SCT-ND	.38	.29	.25	P8083STB-ND	141.00/M	EVQ-11U05R
	Light Touch Switch	1	7.0	6.0	100gf	15	20	100K	P8072SCT-ND	.38	.29	.25	P8072STB-ND	141.00/M	EVQ-11A07K
	Light Touch Switch	1	7.0	6.0	130gf	15	20	100K	P8076SCT-ND	.38	.29	.25	P8076STB-ND	141.00/M	EVQ-11G07K
	Light Touch Switch	1	7.0	6.0	160gf	15	20	100K	P8080SCT-ND	.38	.29	.25	P8080STB-ND	141.00/M	EVQ-11L07K
	Light Touch Switch	1	7.0	6.0	260gf	15	20	100K	P8084SCT-ND	.38	.29	.25	P8084STB-ND	141.00/M	EVQ-11U07K
9	Light Touch Switch	1	9.5	6.0	100gf	15	20	100K	P8073SCT-ND	.38	.29	.25	P8073STB-ND	141.00/M	EVQ-11A09K
	Light Touch Switch	1	9.5	6.0	130gf	15	20	100K	P8077SCT-ND	.38	.29	.25	P8077STB-ND	141.00/M	EVQ-11G09K
	Light Touch Switch	1	9.5	6.0	160gf	15	20	100K	P8081SCT-ND	.38	.29	.25	P8081STB-ND	141.00/M	EVQ-11L09K
	Light Touch Switch	1	9.5	6.0	260gf	15	20	100K	P8085SCT-ND	.38	.29	.25	P8085STB-ND	141.00/M	EVQ-11U09K
10	Light Touch Switch Long Travel	1	5.0	6.0	200gf	12	50	100K	P10856SCT-ND	1.10	.83	.72	P10856STB-ND	413.00/M	EVQ-PVG05K
	Light Touch Switch Long Travel	1	5.0	6.0	220gf	12	50	100K	P10855SCT-ND	1.41	1.06	.92	P10855STB-ND	528.00/M	EVQ-PVA05K
	Light Touch Switch Long Travel	1	5.0	6.0	250gf	12	50	100K	P10858SCT-ND	1.41	1.06	.92	P10858STB-ND	528.00/M	EVQ-PVF05K
	Light Touch Switch Long Travel	1	5.0	6.0	350gf	12	50	100K	P10857SCT-ND	1.10	.83	.72	P10857STB-ND	413.00/M	EVQ-PVH05K

* Tape & Box Size: 1,000

Panasonic Surface Mount Momentary Push Button Switches

CIRCUIT DIA. 1



CIRCUIT DIA. 2

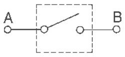
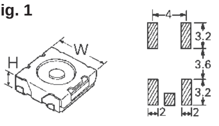
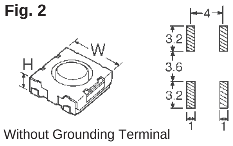


Fig. 1



With or Without Ground Terminal

Fig. 2



Without Grounding Terminal

Fig. 3

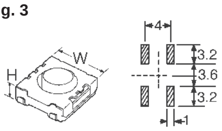


Fig. 4

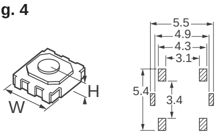


Fig. 5

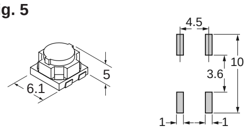


Fig. 6

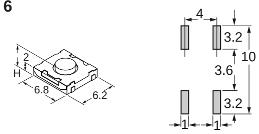
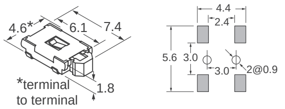


Fig. 7



*terminal to terminal

Fig. 8

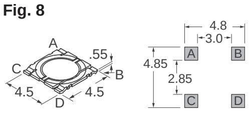
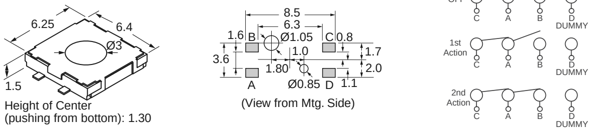


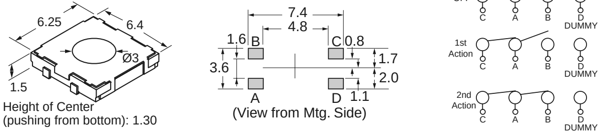
Fig. 9



Height of Center (pushing from bottom): 1.30

(View from Mtg. Side)

Fig. 10



Height of Center (pushing from bottom): 1.30

(View from Mtg. Side)

Fig. 11

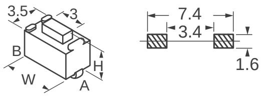


Fig. 12

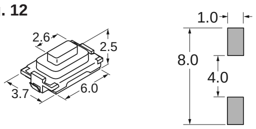


Fig. 13

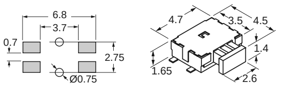


Fig. 14

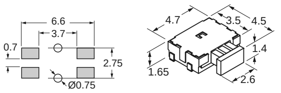


Fig. 15

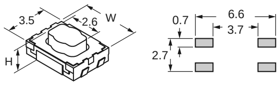


Fig. 16

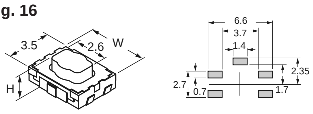


Fig. 17

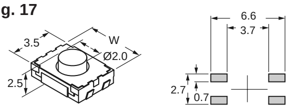
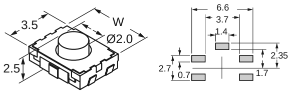


Fig. 18



G

Fig.	Description	Circuit Dia.	Dim. (mm) H	Dim. (mm) W	Operating Force	Volt. Rating (VDC)	Current Rating (mA)	Oper. Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Reel Size	Tape & Reel Pricing	Panasonic Part No.
	Surface Mount Light Touch Switch															
1	L.T. Switch Standard	1	2	6.3	130gf	15	20	100K	P8000SCT-ND	1.11	.84	.73	P8000STR-ND	1,000	428.00	EVQ-QFA02K
	L.T. Switch Standard w/Ground Terminal	1	2	6.3	130gf	15	20	100K	P8001SCT-ND	1.10	.83	.72	P8001STR-ND	1,000	422.00	EVQ-QFU02K
2	L.T. Switch Std w/Actuator/Solvent Washable	1	3.1	6.4	130gf	15	20	100K	P8002SCT-ND	.86	.65	.56	P8002STR-ND	2,000	330.00/M	EVQ-PHP03T
3	L.T. Switch Standard w/Actuator	1	2.5	6.2	160gf	15	20	100K	P8004SCT-ND	.70	.53	.46	P8004STR-ND	2,000	269.00/M	EVQ-QHV02W
4	L.T. Switch Rugged Design, Low Profile	1	1.5	5	100gf	12	50	500K	P8045SCT-ND	1.12	.85	.73	P8045STR-ND	5,000	395.00/M	EVQ-PLDA15
	L.T. Switch Rugged Design, Low Profile	1	1.5	5	160gf	12	50	500K	P8046SCT-ND	.91	.69	.60	P8046STR-ND	5,000	325.00/M	EVQ-PLHA15
	L.T. Switch Rugged Design, Low Profile	1	1.5	5	260gf	12	50	500K	P8047SCT-ND	1.16	.87	.76	P8047STR-ND	5,000	408.00/M	EVQ-PLMA15
5	Light Touch Switch Long Travel	1	5	6.1	250gf	12	50	30K	P10888SCT-ND	1.38	1.04	.90	P10888STR-ND	2,000	532.00/M	EVQ-P1D05M
	Light Touch Switch Long Travel	1	5	6.1	350gf	12	50	30K	P10889SCT-ND	1.38	1.04	.90	P10889STR-ND	2,000	532.00/M	EVQ-P1B05M
6	LT Switch (Non-Extending Actuator)	1	2	6.2	130gf	15	20	100K	P10885SCT-ND	.69	.52	.45	P10885STR-ND	4,000	245.00/M	EVQ-QWP01W
	Light Touch Switch	1	2.5	6.2	160gf	15	20	100K	P10886SCT-ND	.69	.52	.45	P10886STR-ND	2,000	264.00/M	EVQ-QWS02W
	Light Touch Switch	1	3.1	6.2	260gf	15	20	100K	P10887SCT-ND	.69	.52	.45	P10887STR-ND	2,000	264.00/M	EVQ-QWT03W
7	L. T. Switch, Side Push	1	1.8	4	160gf	12	50	50K	P8088SCT-ND	1.01	.76	.66	P8088STR-ND	4,000	367.00/M	EVQ-PSD02K
	L. T. Switch, Side Push	1	1.8	4	220gf	12	50	50K	P8089SCT-ND	1.13	.85	.74	P8089STR-ND	4,000	409.00/M	EVQ-PSH02K
8	L. T. Switch, Super Small	1	.55	4.5	160gf	15	20	50K	P8090SCT-ND	.61	.46	.40	P8090STR-ND	10,000	193.00/M	EVQ-PQHB55
	L. T. Switch, Super Small	1	.55	4.5	220gf	15	20	50K	P8091SCT-ND	.59	.45	.39	P8091STR-ND	10,000	193.00/M	EVQ-PQMB55
9	L. T. Switch, SPDT Straight Leads w/Mtg. Boss	—	1.5	6.2	100/260gf	15	20	100K	P10845S-ND*	.78	.68	.55	—	—	—	EVQ-PWAA15
10	L. T. Switch, SPDT J Bent Leads	—	1.5	6.2	100/260gf	15	20	100K	P10846SCT-ND	1.16	.88	.76	P10846STR-ND	5,000	416.00/M	EVQ-PWBA15
	6mm x 3.5mm Type															
11	Light Touch Switch	2	4.3	6	100gf	12	50	50K	P8048SCT-ND	1.05	.79	.69	P8048STR-ND	2,500	393.00/M	EVQ-PJS04K
	Light Touch Switch (Long Post)	2	5.0	6	100gf	12	50	50K	P8049SCT-ND	1.16	.87	.76	P8049STR-ND	2,000	435.00/M	EVQ-PJS05K
	Light Touch Switch	2	4.3	6	160gf	12	50	50K	P8050SCT-ND	1.06	.80	.69	P8050STR-ND	2,500	397.00/M	EVQ-PJX04M
	Light Touch Switch (Long Post)	2	5.0	6	160gf	12	50	50K	P8051SCT-ND	1.05	.79	.69	P8051STR-ND	2,000	393.00/M	EVQ-PJX05M
	Light Touch Switch	2	4.3	6	240gf	12	50	50K	P8052SCT-ND	1.07	.81	.70	P8052STR-ND	2,500	402.00/M	EVQ-PJU04K
	Light Touch Switch (Long Post)	2	5.0	6	240gf	12	50	50K	P8053SCT-ND	1.07	.81	.70	P8053STR-ND	2,000	402.00/M	EVQ-PJU05K
12	Light Touch Switch	2	2.5	6	160gf	12	50	50K	P8086SCT-ND	.99	.75	.65	P8086STR-ND	4,000	358.00/M	EVQ-PPBA25
	Light Touch Switch	2	2.5	6	240gf	12	50	50K	P8087SCT-ND	.90	.68	.59	P8087STR-ND	4,000	325.00/M	EVQ-PPDA25
	4.7mm x 3.5mm Type															
13	L. T. Switch Straight Leads, No Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10847SCT-ND	1.07	.80	.70	P10847STR-ND	4,000	386.00/M	EVQ-PUA02K
	L. T. Switch Straight Leads,w/ Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10849SCT-ND	1.07	.80	.70	P10849STR-ND	4,000	386.00/M	EVQ-PUC02K
	L. T. Switch Straight Leads, No Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10851SCT-ND	1.07	.80	.70	P10851STR-ND	4,000	386.00/M	EVQ-PUJ02K
	L. T. Switch Straight Leads, w/ Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10853SCT-ND	1.07	.80	.70	P10853STR-ND	4,000	386.00/M	EVQ-PUL02K
14	L. T. Switch J Bent Leads, No Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10848SCT-ND	1.07	.80	.70	P10848STR-ND	4,000	386.00/M	EVQ-PUB02K
	L. T. Switch J Bent Leads, w/ Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10850SCT-ND	1.07	.80	.70	P10850STR-ND	4,000	386.00/M	EVQ-PUD02K
	L. T. Switch J Bent Leads, No Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10852SCT-ND	1.11	.84	.73	P10852STR-ND	4,000	402.00/M	EVQ-PUK02K
	L. T. Switch J Bent Leads, w/ Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10854SCT-ND	1.07	.80	.70	P10854STR-ND	4,000	386.00/M	EVQ-PUM02K
15	L. T. Switch J Bent Leads	1	2.1	4.7	240gf	15	20	500K	P11080SCT-ND	1.31	.98	.85	P11080STR-ND	4,000	473.00/M	EVQ-P2402M
	L. T. Switch J Bent.Leads	1	2.5	4.7	240gf	15	20	500K	P11081SCT-ND	1.31	.98	.85	P11081STR-ND	4,000	473.00/M	EVQ-P2402W
16	L. T. Switch J Bent Leads, w/Gnd	1	2.1	4.7	240gf	15	20	500K	P11082SCT-ND	1.44	1.09	.94	P11082STR-ND	4,000	523.00/M	EVQ-P2T02M
	L. T. Switch J Bent Leads, w/Gnd	1	2.5	4.7	240gf	15	20	500K	P11083SCT-ND	1.44	1.09	.94	P11083STR-ND	4,000	523.00/M	EVQ-P2T02W
17	L. T. Switch J Bent Leads	1	2.5	4.7	350gf	15	20	500K	P11084SCT-ND	1.31	.98	.85	P11084STR-ND	4,000	473.00/M	EVQ-P2K02Q
18	L. T. Switch J Bent Leads, w/Gnd	1	2.5	4.7	350gf	15	20	500K	P11085SCT-ND	1.44	1.09	.94	P11085STR-ND	4,000	523.00/M	EVQ-P2D02Q

Note: All switches are non-washable unless otherwise noted. * Bulk

OMRON Momentary Tact Switches

Characteristics:

- **Switching Capacity:** 50 mA 24 VDC (resistive load)
- **Contact Resistance:** 100 mΩ max.
- **Bounce Time:** 5 ms max.
- **Vibration:** Malfunction durability:10 to 55 Hz, 1.5 mm double amplitude
- **Shock:** Mechanical durability: 1,000 m/s^2 (approx. 100G); Malfunction durability: 100 m/s^2 (approx. 10G
- **Ambient Temperature:** Operating: -25°C to 70°C
- **Service Life:**
  - *B3F-1 Series – B3F-3 Series* — Mechanical/electrical: 1 x 10^6 (0.3 x 10^6) operations min.
  - *B3F-4 Series* — Mechanical/electrical: 3 x 10^6 (0.3 x 10^6) operations min.
  - *B3S-1 Series* — Mechanical/electrical: General-purpose type: 500,000 operations min. High-load type: 300,000 operations min.
  - *B3W-1 Series* — Mechanical/electrical: General-purpose type: 1,000,000 operations min. High-load type: 300,000 operations min.
  - *B3W-4 Series* — Mechanical/electrical: General-purpose type: 3,000,000 operations min. High-load type: 1,000,000 operations min.

Fig. 1

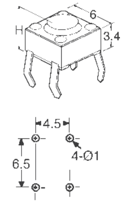


Fig. 2

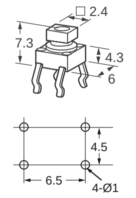
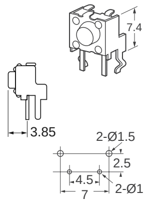


Fig. 3



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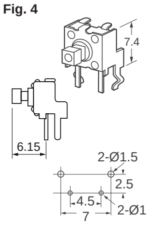

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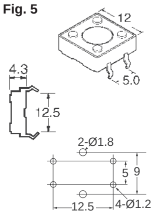
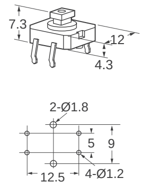


Fig. 6



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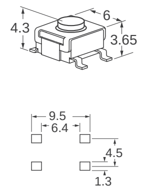

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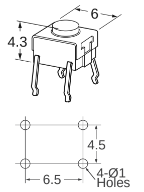

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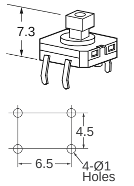
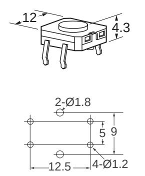


Fig. 10



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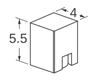

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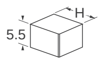


Fig. 13

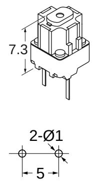


Fig. 14

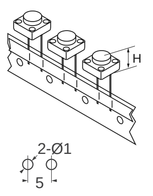


Fig. 15

Sealed

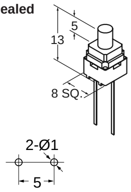
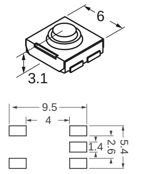
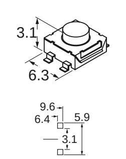


Fig. 16



Note: Eliminate center pad for "without GND Terminal"

Fig. 17



(Top View)
(One-Side PCB t=1.6)

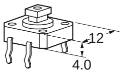
Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250	500	Omron Part No.
	6 MM									
1	Tact Switch Standard, Flat Actuator w/o Ground Terminal — 100gf	4.3	SW400-ND	.20	.18	.16	.15	.14	.12	B3F-1000
1	Tact Switch Standard, Flat Actuator w/o Ground Terminal — 150gf	4.3	SW401-ND	.23	.21	.18	.17	.16	.14	B3F-1002
1	Tact Switch Standard, Flat Actuator w/o Ground Terminal — 100gf	5.0	SW402-ND	.23	.21	.18	.17	.16	.14	B3F-1020
1	Tact Switch Standard, Flat Actuator w/o Ground Terminal — 150gf	5.0	SW403-ND	.23	.21	.18	.17	.16	.14	B3F-1022
1	Tact Switch Standard, Flat Actuator w/o Ground Terminal — 100gf	9.5	SW406-ND	.25	.23	.20	.18	.17	.15	B3F-1070
2	Tact Switch Standard, Projected Actuator w/o Ground Terminal — 100gf	—	SW404-ND	.23	.21	.18	.17	.16	.14	B3F-1050
2	Tact Switch Standard, Projected Actuator w/o Ground Terminal — 150gf	—	SW405-ND	.23	.21	.18	.17	.16	.14	B3F-1052
3	Tact Switch Rt. Angle, Flat Actuator — 100gf	—	SW407-ND	.30	.27	.24	.22	.21	.18	B3F-3120
3	Tact Switch Rt. Angle, Flat Actuator — 150gf	—	SW408-ND	.30	.27	.24	.22	.21	.18	B3F-3122
4	Tact Switch Rt. Angle, Projected Actuator — 100gf	—	SW409-ND	.30	.27	.24	.22	.21	.18	B3F-3150
4	Tact Switch Rt. Angle, Projected Actuator — 150gf	—	SW410-ND	.30	.27	.24	.22	.21	.18	B3F-3152
	12 MM									
5	Tact Switch Standard, Flat Actuator w/o Ground Terminal — 130gf	—	SW411-ND	.30	.27	.24	.22	.21	.18	B3F-4000
5	Tact Switch Standard, Flat Actuator w/o Ground Terminal — 260gf	—	SW412-ND	.30	.27	.24	.22	.21	.18	B3F-4005
6	Tact Switch Standard, Projected Actuator w/o Ground Terminal — 130gf	—	SW413-ND	.30	.27	.24	.22	.21	.18	B3F-4050
6	Tact Switch Standard, Projected Actuator w/o Ground Terminal — 260gf	—	SW414-ND	.30	.27	.24	.22	.21	.18	B3F-4055
	6 MM Process Sealed (not water washable)									
7	SMT Flat Actuator w/o Ground Terminal — 160gf	—	SW415-ND	.45	.41	.36	.33	.31	.27	B3S-1000
7	SMT Flat Actuator w/o Ground Terminal — 230gf	—	SW416-ND	.45	.41	.36	.33	.31	.27	B3S-1002
8	Tact Switch Flat Actuator w/o Ground Terminal — 160gf	—	SW417-ND	.35	.32	.28	.26	.24	.21	B3W-1000
8	Tact Switch Flat Actuator w/o Ground Terminal — 230gf	—	SW418-ND	.35	.32	.28	.26	.24	.21	B3W-1002
9	Tact Switch Projected Actuator w/o Ground Terminal — 160gf	—	SW419-ND	.35	.32	.28	.26	.24	.21	B3W-1050
9	Tact Switch Projected Actuator w/o Ground Terminal — 230gf	—	SW420-ND	.35	.32	.28	.26	.24	.21	B3W-1052
	12 MM Process Sealed (not water washable)									
10	Tact Switch Flat w/o Ground Terminal — 200gf	—	SW421-ND	.43	.39	.34	.31	.29	.26	B3W-4000
6	Tact Switch Projected w/o Ground Terminal — 200gf	—	SW422-ND	.43	.39	.34	.31	.29	.26	B3W-4050
	Key Caps									
11	Key Cap 4 x 4 mm Light Grey, Fits 6mm Projected Actuator Types	—	SW450-ND	.18	.16	.14	.13	.12	.11	B32-1000
11	Key Cap 4 x 4 mm Black, Fits 6mm Projected Actuator Types	—	SW451-ND	.18	.16	.14	.13	.12	.11	B32-1010
11	Key Cap 4 x 4 mm Yellow, Fits 6mm Projected Actuator Types	—	SW249-ND	.18	.16	.14	.13	.12	.11	B32-1030
11	Key Cap 4 x 4 mm Blue, Fits 6mm Projected Actuator Types	—	SW250-ND	.18	.16	.14	.13	.12	.11	B32-1040
11	Key Cap 4 x 4 mm White, Fits 6mm Projected Actuator Types	—	SW251-ND	.18	.16	.14	.13	.12	.11	B32-1060
11	Key Cap 4 x 4 mm Red, Fits 6mm Projected Actuator Types	—	SW252-ND	.18	.16	.14	.13	.12	.11	B32-1080
12	Key Cap 9 x 9 mm Light Grey, Fits 12mm Projected Actuator Types	9	SW452-ND	.18	.16	.14	.13	.12	.11	B32-1200
12	Key Cap 9 x 9 mm Black, Fits 12mm Projected Actuator Types	9	SW453-ND	.18	.16	.14	.13	.12	.11	B32-1210
12	Key Cap 9 x 9 mm Yellow, Fits 12mm Projected Actuator Types	9	SW253-ND	.18	.16	.14	.13	.12	.11	B32-1230
12	Key Cap 9 x 9 mm Blue, Fits 12mm Projected Actuator Types	9	SW254-ND	.18	.16	.14	.13	.12	.11	B32-1240
12	Key Cap 9 x 9 mm White, Fits 12mm Projected Actuator Types	9	SW255-ND	.18	.16	.14	.13	.12	.11	B32-1260
12	Key Cap 9 x 9 mm Red, Fits 12mm Projected Actuator Types	9	SW256-ND	.18	.16	.14	.13	.12	.11	B32-1280
12	Key Cap 12 x 12 mm Light Grey, Fits 12mm Projected Actuator Types	12	SW454-ND	.18	.16	.14	.13	.12	.11	B32-1300
12	Key Cap 12 x 12 mm Black, Fits 12mm Projected Actuator Types	12	SW455-ND	.18	.16	.14	.13	.12	.11	B32-1310
12	Key Cap 12 x 12 mm Yellow, Fits 12mm Projected Actuator Types	12	SW257-ND	.18	.16	.14	.13	.12	.11	B32-1330
12	Key Cap 12 x 12 mm Blue, Fits 12mm Projected Actuator Types	12	SW258-ND	.18	.16	.14	.13	.12	.11	B32-1340
12	Key Cap 12 x 12 mm White, Fits 12mm Projected Actuator Types	12	SW259-ND	.18	.16	.14	.13	.12	.11	B32-1360
12	Key Cap 12 x 12 mm Red, Fits 12mm Projected Actuator Types	12	SW260-ND	.18	.16	.14	.13	.12	.11	B32-1380
	6MM Long Stroke Tact Switch									
13	Tact Switch with Long Stroke and Positive Click — 70gf	—	SW426-ND	.63	.57	.50	.45	.43	.38	B3M-6009

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	50	100	Digi-Key Part No.	Size	Pricing	Omron Part No.
	6 MM Auto Placement										
14	Tact Switch Auto-Placement 6mm Sq. — 100gf	4.3	SW263CT-ND	.30	.28	.25	.22	SW263TB-ND*****	1,000	125.00	B3F-6000
14	Tact Switch Auto-Placement 6mm Sq. — 150gf	5.0	SW264CT-ND	.32	.29	.27	.24	SW264TB-ND*****	1,000	137.50	B3F-6022
15	Tact Switch Auto-Placement - Water Tight - Dust Sealed	—	SW425CT-ND	.51	.46	.42	.37	SW425TB-ND*****	1,000	212.50	B3WN-6002
	6 MM Process Sealed (not water washable)										
16	SMT Flat Actuator w/o Ground Terminal — 160gf	—	SW261CT-ND	.76	.69	.62	.55	SW261TR-ND******	3,000	325.00/M	B3SN-3012P
16	SMT Flat Actuator w/ Ground Terminal — 160gf	—	SW262CT-ND	.76	.69	.62	.55	SW262TR-ND******	3,000	325.00/M	B3SN-3112P
17	SMT Tact Switch 6mm Sq. (snap-action) — 100gf	—	SW423CT-ND	.45	.41	.37	.33	SW423TR-ND******	3,000	187.50/M	B3FS-1000P
17	SMT Tact Switch 6mm Sq. (snap-action) — 150gf	—	SW424CT-ND	.45	.41	.37	.33	SW424TR-ND******	3,000	187.50/M	B3FS-1002P

***** TB = Tape and Box ****** TR= Tape and Reel

Momentary Tact Switches

9157B-ND E-Switch Data Book **$2.95**

Fig. 1


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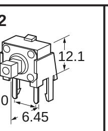
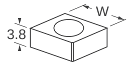


Fig. 3


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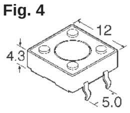

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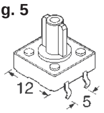

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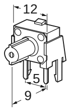

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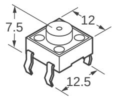

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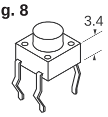

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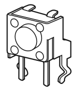
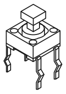


Fig. 10


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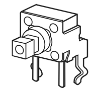
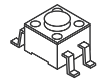


Fig. 12


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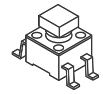

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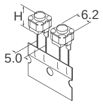

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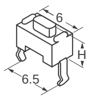

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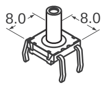
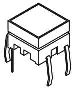
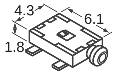


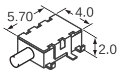
Process Sealed

Fig. 17


Illuminated

Fig. 18


SMT Tact

Fig. 19


SMT Detector

Fig.	Description	Digi-Key	Price Each			Digi-Key	Tape & Reel		E-Switch
		Part No.	1	10	100	Part No.	Size	Pricing	Part No.
1	Tact Switch 12mm Square Extended Actuator, Actuator Length = 7.3	EG1821-ND	.47	.38	.34	—	—	—	TL1100F160Q
2	Tact Switch Right Angle 12mm Square Extended Actuator, Actuator Length = 7.3	EG1822-ND	.58	.47	.42	—	—	—	TL1100CF160Q
3	Key Cap, W=12 x 12mm Black, Fits 12mm Extended Actuator Types	EG1080-ND	.22	.18	.17	—	—	—	4J BLACK
	Key Cap, W=12 x 12mm Grey, Fits 12mm Extended Actuator Types	EG1079-ND	.22	.18	.17	—	—	—	4J GREY
	Key Cap, W=12 x 12mm Red, Fits 12mm Extended Actuator Types.	EG1078-ND	.22	.18	.17	—	—	—	4J RED
	Key Cap, W=12 x 12mm White, Fits 12mm Extended Actuator Types	EG1077-ND	.22	.18	.17	—	—	—	4J WHITE
	Key Cap, W=8 x 8mm Black Fits, 12mm Extended Actuator Types	EG1885-ND	.18	.16	.14	—	—	—	6J BLK
	Key Cap, W=8 x 8mm Red Fits, 12mm Extended Actuator Types	EG1886-ND	.18	.16	.14	—	—	—	6J RED
	Key Cap, W=8 x 8mm White Fits, 12mm Extended Actuator Types	EG1887-ND	.18	.16	.14	—	—	—	6J WHT
	Key Cap, W=8 x 8mm Grey Fits, 12mm Extended Actuator Types	EG1888-ND	.18	.16	.14	—	—	—	6J GRY
4	Tact Switch 12mm Square Flat Actuator	EG1023-ND	.50	.40	.37	—	—	—	TL1100DF160Q
	Tact Switch SMT 3.44mm Actuator 160gf Gull Wing	EG2530CT-ND	.81	.65	.59	EG2530TR-ND*	1,500	324.00/M	TL3304AF160QG/TR
5	Tact Switch 12mm Square Post Actuator, Actuator Length = 12.0	EG1024-ND	.44	.36	.33	—	—	—	TL1100FF160Q
6	Tact Switch 12mm Square Right Angle Post Actuator, Actuator Length = 9.0	EG1025-ND	.83	.67	.61	—	—	—	TL1100GF160Q
—	Key Cap, Rectangular Black, Fits 12mm Post Actuator Types	EG1076-ND	.45	.36	.33	—	—	—	TAA BLACK
	Key Cap, Rectangular White, Fits 12mm Post Actuator Types	EG1075-ND	.45	.36	.33	—	—	—	TAA WHITE
	Key Cap, Rectangular Grey, Fits 12mm Post Actuator Types	EG1074-ND	.45	.36	.33	—	—	—	TAA GREY
	Key Cap, Rectangular Red, Fits 12mm Post Actuator Types	EG1073-ND	.45	.36	.33	—	—	—	TAA RED
7	Tact Switch 12mm Square Long Flat Actuator	EG1826-ND	.44	.36	.33	—	—	—	TL1100EF160Q
8	Tact Switch 6mm Square 4.3mm Actuator 160gf	EG1827-ND	.30	.25	.22	—	—	—	TL1105F160Q
	Tact Switch 6mm Square 4.3mm Actuator 250gf	EG1828-ND	.30	.25	.22	—	—	—	TL1105F250Q
	Tact Switch 6mm Square 5mm Actuator 160gf	EG1829-ND	.30	.25	.22	—	—	—	TL1105AF160Q
	Tact Switch 6mm Square 5mm Actuator 250gf	EG1830-ND	.30	.25	.22	—	—	—	TL1105AF250Q
	Tact Switch 6mm Square 7mm Actuator 160gf	EG1831-ND	.30	.25	.22	—	—	—	TL1105EF160Q
	Tact Switch 6mm Square 7mm Actuator 250gf	EG1832-ND	.30	.25	.22	—	—	—	TL1105EF250Q
	Tact Switch 6mm Square 9.5mm Actuator 100gf	EG2497-ND	.19	.16	.14	—	—	—	TL1105BF100Q
	Tact Switch 6mm Square 9.5mm Actuator 160gf	EG1833-ND	.30	.25	.22	—	—	—	TL1105BF160Q
	Tact Switch 6mm Square 9.5mm Actuator 250gf	EG1834-ND	.30	.25	.22	—	—	—	TL1105BF250Q
	Tact Switch 6mm Square 13mm Actuator 160gf	EG1865-ND	.30	.25	.22	—	—	—	TL1105DF160Q
	Tact Switch 6mm Square 13mm Actuator 250gf	EG1866-ND	.30	.25	.22	—	—	—	TL1105DF250Q
	Tact Switch 6mm Square 5mm Actuator 100gf	EG2495-ND	.19	.16	.14	—	—	—	TL1105AF100Q
	Tact Switch 6mm Square Gold Plating 5mm Actuator 160gf	EG2493-ND	.99	.80	.72	—	—	—	TL1105AF160R
	Tact Switch 6mm Square 13.0mm Actuator 100gf	EG2498-ND	.19	.16	.14	—	—	—	TL1105DF100Q
	Tact Switch 6mm Square 7.3mm Actuator 100gf	EG2496-ND	.19	.16	.14	—	—	—	TL1105EF100Q
	Tact Switch 6mm Square 4.3mm Actuator 100gf	EG2494-ND	.16	.13	.12	—	—	—	TL1105F100Q
	Tact Switch 6mm Square Gold Plating 4.3mm Actuator 160gf	EG2492-ND	.99	.80	.72	—	—	—	TL1105F160R
	Tact Switch 6mm Square 17mm Actuator 100gf	EG2504-ND	.19	.16	.14	—	—	—	TL1105LF100Q
	Tact Switch 6mm Square 17mm Actuator 160gf	EG2505-ND	.19	.16	.14	—	—	—	TL1105LF160Q
	Tact Switch 6mm Square 17mm Actuator 250gf	EG2506-ND	.19	.16	.14	—	—	—	TL1105LF250Q
	Tact Switch 6mm Square 5.0mm Actuator 160gf with ESD	EG2491-ND	.29	.24	.21	—	—	—	TLE1105AF160Q
	Tact Switch 6mm Square 4.3mm Actuator 160gf with ESD	EG2490-ND	.29	.24	.21	—	—	—	TLE1105F160Q
9	Tact Switch 6mm Square Right Angle 3.15mm Actuator 160gf	EG1835-ND	.44	.36	.33	—	—	—	TL1105WF160Q
	Tact Switch 6mm Square Right Angle 3.15mm Actuator 250gf	EG1836-ND	.44	.36	.33	—	—	—	TL1105WF250Q
	Tact Switch 6mm Square Right Angle 6.15mm Actuator 160gf	EG1837-ND	.44	.36	.33	—	—	—	TL1105RF160Q
	Tact Switch 6mm Square Right Angle 6.15mm Actuator 250gf	EG1838-ND	.44	.36	.33	—	—	—	TL1105RF250Q
	Tact Switch 6mm Square Right Angle 8.35mm Actuator 160gf	EG1839-ND	.40	.32	.29	—	—	—	TL1105SF160Q
	Tact Switch 6mm Square Right Angle 8.35mm Actuator 250gf	EG1840-ND	.40	.32	.29	—	—	—	TL1105SF250Q
	Tact Switch 6mm Square Right Angle 6.15mm Actuator 100gf	EG2500-ND	.36	.29	.26	—	—	—	TL1105RF100Q
	Tact Switch 6mm Square Right Angle 8.35mm Actuator 100gf	EG2501-ND	.36	.29	.26	—	—	—	TL1105SF100Q
	Tact Switch 6mm Square Right Angle 3.85mm Actuator 100gf	EG2507-ND	.36	.29	.26	—	—	—	TL1105VF100Q
	Tact Switch 6mm Square Right Angle 3.85mm Actuator 160gf	EG2508-ND	.36	.29	.26	—	—	—	TL1105VF160Q
	Tact Switch 6mm Square Right Angle 3.85mm Actuator 250gf	EG2509-ND	.36	.29	.26	—	—	—	TL1105VF250Q
	Tact Switch 6mm Square Right Angle 3.15mm Actuator 100gf	EG2499-ND	.36	.29	.26	—	—	—	TL1105WF100Q
10	Tact Switch 6mm Square 2.8mm Extended Actuator 100gf	EG2502-ND	.19	.16	.14	—	—	—	TL1105SPF100Q
	Tact Switch 6mm Square 2.8mm Extended Actuator 160gf	EG1861-ND	.36	.29	.26	—	—	—	TL1105SPF160Q
	Tact Switch 6mm Square 2.8mm Extended Actuator 250gf	EG1862-ND	.36	.29	.26	—	—	—	TL1105SPF250Q
11	Tact Switch 6mm Square Right Angle 2.8mm Extended Actuator 100gf	EG2503-ND	.50	.40	.36	—	—	—	TL1105JAF100Q
	Tact Switch 6mm Square Right Angle 2.8mm Extended Actuator 160gf	EG1863-ND	.61	.49	.45	—	—	—	TL1105JAF160Q
	Tact Switch 6mm Square Right Angle 2.8mm Extended Actuator 250gf	EG1864-ND	.61	.49	.45	—	—	—	TL1105JAF250Q
12	Tact Switch 6mm Square SMT 4.3mm Actuator 160gf	EG1867CT-ND	.56	.45	.41	EG1867TR-ND*	1,200	222.30/M	TL3301NF160QG/TR
	Tact Switch 6mm Square SMT 4.3mm Actuator 260gf	EG1868CT-ND	.56	.45	.41	EG1868TR-ND*	1,200	222.30/M	TL3301NF260QG/TR
	Tact Switch 6mm Square SMT 5.0mm Actuator 160gf Gull Wing	EG2526CT-ND	.45	.36	.33	EG2526TR-ND*	1,200	192.00/M	TL3301AF160QG/TR
	Tact Switch 6mm Square SMT 5.0mm Actuator 260gf Gull Wing	EG2527CT-ND	.45	.36	.33	EG2527TR-ND*	1,200	180.00/M	TL3301AF260QG/TR
13	Tact Switch 6mm Square SMT 2.8mm Extended Actuator 160gf	EG1869-ND	.56	.45	.41	—	—	—	TL3301SPF160QG
	Tact Switch 6mm Square SMT 2.8mm Extended Actuator 260gf	EG1870-ND	.56	.45	.41	—	—	—	TL3301SPF260QG
14	Tact Switch 6.2mm Square, H=5.00mm Actuator 160gf	EG2533CT-ND	.31	.25	.23	EG2533TB-ND†	1,000	133.28	TL59AF160Q
	Tact Switch 6.2mm Square, H=4.3mm Actuator 160gf	EG2532CT-ND	.31	.25	.23	EG2532TB-ND†	1,000	133.28	TL59NF160Q
—	Tact Switch SMT 1.5mm Actuator 160gf Gull Wing.	EG2531CT-ND	1.08	.87	.78	EG2531TR-ND*	4,000	431.55/M	TL3342F160QG/TR
15	Tact Switch 6 x 3.5mm, H=4.3mm 130gf	EG2510-ND	.36	.29	.26	—	—	—	TL1107AF130W
	Tact Switch 6 x 3.5mm, H=4.3mm 180gf	EG2511-ND	.36	.29	.26	—	—	—	TL1107AF180W
	Tact Switch 6 x 3.5mm, H=5.0mm 130gf	EG2512-ND	.36	.29	.26	—	—	—	TL1107BF130W
	Tact Switch 6 x 3.5mm, H=5.0mm 180gf	EG2513-ND	.36	.29	.26	—	—	—	TL1107BF180W
	Tact Switch SMT 4.3mm Actuator 180gf Gull Wing.	EG2528CT-ND	.59	.47	.43	EG2528TR-ND*	1,800	234.00/M	TL3302AF180QG/TR
	Tact Switch SMT 5.0mm Actuator 180gf Gull Wing.	EG2529CT-ND	.59	.47	.43	EG2529TR-ND*	1,800	234.00/M	TL3302BF180QG/TR
16	Tact Switch Process Sealed 10mm Actuator 130gf	EG2519-ND	1.02	.82	.74	—	—	—	GS10.00F130QP
	Tact Switch Process Sealed 10mm Actuator 300gf.	EG2520-ND	1.02	.82	.74	—	—	—	GS10.00F300QP
	Tact Switch Process Sealed 4.70mm Actuator 130gf	EG2517-ND	1.02	.82	.74	—	—	—	GS4.70F130QP
	Tact Switch Process Sealed 4.70mm Actuator 300gf	EG2518-ND	1.02	.82	.74	—	—	—	GS4.70F300QP
	Tact Switch Process Sealed 6.34mm Right Angle Actuator 130gf.	EG2521-ND	1.22	.98	.89	—	—	—	GS6.34F130QR
	Tact Switch Process Sealed 8.54mm Right Angle Actuator 130gf.	EG2522-ND	1.22	.98	.89	—	—	—	GS8.54F130QR
	Tact Switch Process Sealed 10mm Actuator 130gf with ESD Pin	EG2524-ND	1.02	.82	.74	—	—	—	GSE10.00F130QP
	Tact Switch Process Sealed 4.70mm Actuator 130gf with ESD Pin	EG2523-ND	1.02	.82	.74	—	—	—	GSE4.70F130QP
	Illuminated Tact Switch								
17	Illuminated Tact Switch, 12mm Sq. Momentary, Green	EG2515-ND	7.95	6.36	5.73	—	—	—	720AF300GRNQ
	Illuminated Tact Switch, 12mm Sq. Momentary, Red.	EG2514-ND	7.95	6.36	5.73	—	—	—	720AF300REDQ
	Illuminated Tact Switch, 12mm Sq. Momentary, Yellow.	EG2516-ND	7.95	6.36	5.73	—	—	—	720AF300YELQ
	900 Series – Subminiature SMT Push Button Switches								
18	Tact Switch RA Push Button, SPST 100mA, 150gF.	EG2525CT-ND	1.10	.89	.80	EG2525TR-ND*	2,000	441.00/M	901AGQF160/TR
19	Tact Switch RA Detector, SPST 100mA, 50gF	EG2622CT-ND	2.01	1.61	1.45	EG2622TR-ND*	3,000	749.00/M	900AGQ

* TR = Tape & Reel † TB = Tape & Box

Momentary Tact Switches

(Dimensions in mm)

Fig. 1

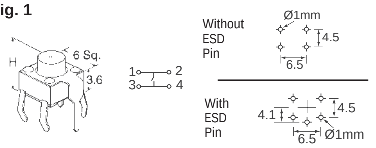


Fig. 2

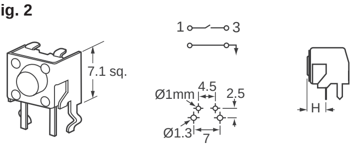


Fig. 3

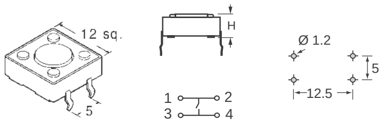


Fig. 4

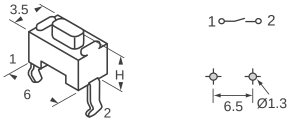


Fig. 5

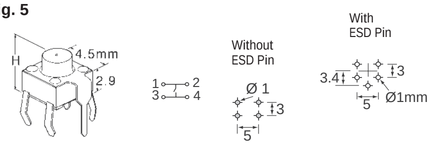


Fig. 6

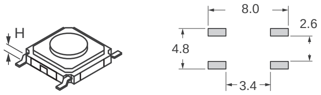


Fig.7

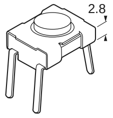


Fig. 8

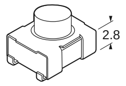


Fig. 9

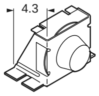


Fig. 10

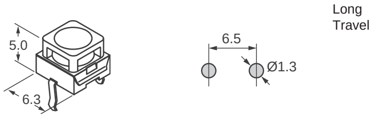


Fig. 11

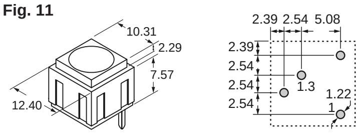
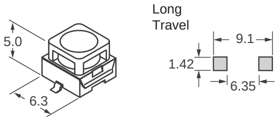


Fig. 12



Contact Materials

G Contacts: Coin silver, with gold plate over nickel plate. Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA max. @ 20 VAC or DC max. or 1 amp @ 120 VAC or 28 VDC.

H Terminals: Brass. Contact Rating: 5mA max. @ 12 VDC. 50µA min. @ 2 VDC. Operating Temperature: -30°C to 80°C

Q Movable Contacts: Beryllium copper, silver plated. 25mA max. @ 50V AC or DC max. Stationary Contacts & All Terminals: Copper alloy, silver plated.

B Contacts: Gold Terminals: Gold Rating 25mA max. @ 50V AC or DC max.

Fig.	Description	Dim H (mm)	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	ITT Industries Part No.
PTS Momentary Tact Switches (Non-Washable)									
1	6mm, without ESD pin — 130gF	4.3	CKN9009-ND	.37	.30	.24	—	—	PTS645SL43
1	6mm, without ESD pin — 130gF	5.0	CKN9010-ND	.37	.30	.24	—	—	PTS645SL50
1	6mm, with ESD pin — 130gF	4.3	CKN9011-ND	.53	.43	.34	—	—	PTS645TL43
1	6mm, with ESD pin — 130gF	5.0	CKN9012-ND	.53	.43	.34	—	—	PTS645TL50
2	6mm, Right Angle, — 130gF	3.15	CKN9013-ND	.39	.32	.25	—	—	PTS645VL31
2	6mm, Right Angle, — 130gF	3.85	CKN9014-ND	.39	.32	.25	—	—	PTS645VL39
3	12mm, without ESD pin — 160gF	4.3	CKN9015-ND	.36	.29	.23	—	—	PTS125SM43
4	6 x 3.5 mm, without ESD pin — 130gF	4.3	CKN9016-ND	.45	.36	.29	—	—	PTS635SL43
4	6 x 3.5 mm, without ESD pin — 130gF	5.0	CKN9017-ND	.45	.36	.29	—	—	PTS635SL50
5	4.5mm, without ESD pin — 130gF	3.8	CKN9018-ND	.31	.25	.20	—	—	PTS453SL38
5	4.5mm, with ESD pin — 130gF	3.8	CKN9019-ND	.31	.25	.20	—	—	PTS453TL38
6	5.25mm, Sq. SMT, — 130gF	1.5	CKN9020CT-ND	.90	.72	.57	CKN9020TR-ND	375.00/M	PTS525SM10SM

Fig.	Circuit	Switch Function	Contact Material	Dim. (mm) L x W x D	Cap Color	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Momentary Tact Switches (Process Sealed; Washable)										
7	SPST	Mom (N/O)	G	6.22 x 6.37 x 2.84	—	CKN4050-ND	2.14	1.72	1.36	KT11B0CM
	SPST	Mom (N/O)	G	6.22 x 6.37 x 3.48	—	CKN4070-ND	2.07	1.66	1.32	KT11B1CM
	SPST	Mom (N/O)	G	6.22 x 6.37 x 5.08	—	CKN4071-ND	2.09	1.68	1.33	KT11B2CM
	SPST	Mom (N/O)	G	6.22 x 6.37 x 5.21	—	CKN4051-ND	2.02	1.62	1.29	KT11P2CM
	SPST	Mom (N/O)	G	6.22 x 6.37 x 3.96	—	CKN4052-ND	2.01	1.61	1.28	KT11P3CM
Ultra Low Profile Momentary Tact Switches (Process Sealed; Non-Washable)										
10	SPST	Mom (N/O)	H	6.3 x 6.6 x 5.0	—	CKN1257-ND	.75	.60	.48	RT11P2BCHD1
	SPST	Mom (N/O)	H	6.3 x 6.6 x 5.0	—	CKN1258-ND	.75	.60	.48	RT11P2ECHD1
KS Momentary Tact Switches (Non-Washable)										
11	SPST	Mom (N/O)	G	.488 x .488 x .388	White	CKN4077-ND	2.25	1.80	1.43	KS11R21CBD
	SPST	Mom (N/O)	Q	.488 x .488 x .388	White	CKN4078-ND	1.35	1.08	.86	KS11R21CQD
	SPST	Mom (N/O)	G	.488 x .488 x .388	Black	CKN4079-ND	2.25	1.80	1.43	KS11R22CBD
	SPST	Mom (N/O)	Q	.488 x .488 x .388	Black	CKN4080-ND	1.35	1.08	.86	KS11R22CQD
	SPST	Mom (N/O)	B	.488 x .488 x .388	Red	CKN4081-ND	2.34	1.88	1.49	KS11R23CBD
	SPST	Mom (N/O)	Q	.488 x .488 x .388	Red	CKN4082-ND	1.35	1.08	.86	KS11R23CQD

Fig.	Switch Function	Actuator Height (PushForce)	Term.	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	ITT Industries Part No.
Surface Mount (Process Sealed; Washable)											
8	Mom (N/O)	Flush	J-Lead	CKN9001CT-ND	1.94	1.68	1.35	CKN9001TR-ND	1,100	1074.60/M	KT11B0JM
8	Mom (N/O)	.025”	J-Lead	CKN4081CT-ND	2.11	1.95	1.79	CKN4081TR-ND	1,100	1170.00/M	KT11B1JM
8	Mom (N/O)	.088”	J-Lead	CKN4069CT-ND	2.16	1.86	1.50	CKN4069TR-ND	1,100	1195.20/M	KT11B2JM
8	Mom (N/O)	.093”	J-Lead	CKN9002CT-ND	2.01	1.73	1.39	CKN9002TR-ND	1,100	1110.60/M	KT11P2JM
8	Mom (N/O)	.044”	J-Lead	CKN9003CT-ND	1.98	1.71	1.38	CKN9003TR-ND	1,100	1098.00/M	KT11P3JM
8	Mom (N/O)	.156”	J-Lead	CKN4083CT-ND	2.14	1.98	1.81	CKN4083TR-ND	800	946.08	KT11P4JM
8	Mom (N/O)	Flush	Gull Lead	CKN4072CT-ND	2.26	1.95	1.57	CKN4072TR-ND	1,100	1251.00/M	KT11B0SM
8	Mom (N/O)	.025”	Gull Lead	CKN4073CT-ND	2.45	2.11	1.70	CKN4073TR-ND	1,100	1355.40/M	KT11B1SM
8	Mom (N/O)	.088”	Gull Lead	CKN4074CT-ND	2.47	2.13	1.71	CKN4074TR-ND	1,100	1368.00/M	KT11B2SM
8	Mom (N/O)	.093”	Gull Lead	CKN9004CT-ND	2.31	1.99	1.60	CKN9004TR-ND	1,100	1278.00/M	KT11P2SM
8	Mom (N/O)	.044”	Gull Lead	CKN9005CT-ND	2.27	1.96	1.58	CKN9005TR-ND	1,100	1256.40/M	KT11P3SM
8	Mom (N/O)	.156”	Gull Lead	CKN9023CT-ND	2.31	2.14	1.96	CKN9023TR-ND	800	1025.28	KT11P4SM
9	Mom (N/O)	Flush	Gull Lead	CKN9006CT-ND	2.14	1.85	1.49	CKN9006TR-ND	800	947.52	KT11B0SAM
9	Mom (N/O)	.025”	Gull Lead	CKN9007CT-ND	2.16	1.86	1.50	CKN9007TR-ND	800	956.16	KT11B1SAM
9	Mom (N/O)	.088”	Gull Lead	CKN9008CT-ND	2.17	1.88	1.51	CKN9008TR-ND	800	963.36	KT11B2SAM
9	Mom (N/O)	.044”	Gull Lead	CKN4082CT-ND	2.14	1.98	1.81	CKN4082TR-ND	800	947.52	KT11P3SA1M
9	Mom (N/O)	.156”	Gull Lead	CKN4084CT-ND	2.17	2.01	1.84	CKN4084TR-ND	800	963.36	KT11P4SA1M
Surface Mount Ultra Low Profile Tact Switches (Process Sealed; Non-Washable)											
12	Mom (N/O)	300gF	Gull Lead	CKN1260-ND	.75	.60	.48	—	—	—	RT11P2ESHD1

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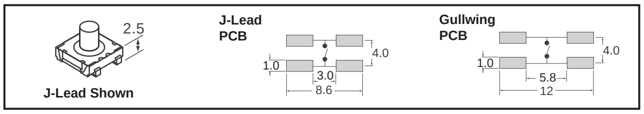
KSC Series Sealed Surface Mount Tact Switches, (Washable)

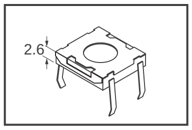
Circuit: SPST-NO **Switching:** Voltage Max.: 50VDC Current Max.: Silver: 50mA **Contact Resistance:** 100mΩ **Operating Temperature:** -40°C to +85°C **IP67 Rated Contact Material:** Silver Plated



Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Ind. Part No.
Tact Switch, 6.2mm sq, w/o ESD Pin - 300gF, No Actuator, Gullwing	401-1071-1-ND	.47	.44	.40	522.00/2,000	KSC141G
Tact Switch, 6.2mm sq, w/o ESD Pin - 300gF, No Actuator, J-Lead	401-1072-1-ND	.47	.44	.40	522.00/2,000	KSC141J
Tact Switch, 6.2mm sq, w/o ESD Pin - 5500gF, No Actuator, Gullwing	401-1073-1-ND	.48	.45	.41	536.40/2,000	KSC151G
Tact Switch, 6.2mm sq, w/o ESD Pin - 5500gF, No Actuator, J-Lead	401-1074-1-ND	.48	.45	.41	536.40/2,000	KSC151J
Tact Switch, 6.2mm sq, w/o ESD Pin - 200gF, w/Short Actuator, Gullwing	401-1075-1-ND	.54	.50	.46	597.60/2,000	KSC221G
Tact Switch, 6.2mm sq, w/o ESD Pin - 200gF, w/Short Actuator, J-Lead	401-1076-1-ND	.54	.50	.46	597.60/2,000	KSC221J
Tact Switch, 6.2mm sq, w/o ESD Pin - 350gF, w/Short Actuator, Gullwing	401-1077-1-ND	.50	.47	.43	558.00/2,000	KSC241G
Tact Switch, 6.2mm sq, w/o ESD Pin - 350gF, w/Short Actuator, J-Lead	401-1078-1-ND	.56	.52	.48	615.60/2,000	KSC241J
Tact Switch, 6.2mm sq, w/o ESD Pin - 170gF, w/Long Actuator, Gullwing	401-1079-1-ND	.86	.80	.73	475.20/1000	KSC421G
Tact Switch, 6.2mm sq, w/o ESD Pin - 170gF, w/Long Actuator, J-Lead	401-1080-1-ND	.86	.80	.73	475.20/1,000	KSC421J
Tact Switch, 6.2mm sq, w/o ESD Pin - 320gF, w/Long Actuator, Gullwing	401-1081-1-ND	.86	.80	.73	475.20/1,000	KSC441G
Tact Switch, 6.2mm sq, w/o ESD Pin - 320gF, w/Long Actuator, J-Lead	401-1082-1-ND	.86	.80	.73	475.20/1,000	KSC441J
Tact Switch, 6.2mm sq, w/o ESD Pin - 160gF, w/Long Actuator, Gullwing	401-1085-1-ND	.50	.47	.43	209.25/750	KSC621G
Tact Switch, 6.2mm sq, w/o ESD Pin - 160gF, w/Long Actuator, J-Lead	401-1086-1-ND	.50	.47	.43	209.25/750	KSC621J
Tact Switch, 6.2mm sq, w/o ESD Pin - 300gF, w/Long Actuator Gullwing	401-1087-1-ND	.51	.47	.43	210.60/750	KSC641G
Tact Switch, 6.2mm sq, w/o ESD Pin - 300gF, w/Long Actuator, J-Lead	401-1088-1-ND	.51	.47	.43	210.60/750	KSC641J
Tact Switch, 6.2mm sq, w/o ESD Pin - 300gF, w/Rocker, Gullwing	401-1083-1-ND	.56	.52	.48	309.60/1,000	KSC541G
Tact Switch, 6.2mm sq, w/o ESD Pin - 300gF, w/Rocker, J-Lead	401-1084-1-ND	.56	.52	.48	309.60/1,000	KSC541J
Tact Switch, 300gF, w/Short Actuator- Gull-Lead, Gold Plate	401-1269-1-ND *NEW!*	.97	.90	.83	1076.40/2,000	KSC243GB
Tact Switch, 160gF, w/Short Actuator- J-Lead, Silver Plate	401-1268-1-ND *NEW!*	.44	.41	.38	489.60/2,000	KSC321G
Tact Switch, 300gF, w/Short Actuator- J-Lead, Silver Plate	401-1267-1-ND *NEW!*	.46	.43	.40	514.80/2,000	KSC341J
Tact Switch, 550gF, w/Short Actuator- J-Lead, Silver Plate	401-1270-1-ND *NEW!*	.58	.54	.49	637.20/2,000	KSC351J
Tact Switch, 550gF, w/Short Actuator- Gull-Lead, Silver Plate	401-1272-1-ND *NEW!*	.58	.54	.49	637.20/2,000	KSC351G

*For tape and reel part number, change -1-ND to -2-ND.

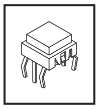
KSF Series Low Profile Tact Switches, (Washable)



Flat Miniature tact switch designed for automatic or manual insertion. Sealed against Immersion. **Circuit:** SPST-NO **Switching:** Voltage Max.: 50VAC, Current Max.: 50mA **Contact Resistance:** 50mΩ **Contact Material:** Silver plated **Operating Temperature:** -40°C to +90°C

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
7.4mm sq, w/o ESD Pin - 160gF, 500,000 Operations, Manual Insertion	401-1067-ND	.74	.69	.63	KSF0M211
7.4mm sq, w/o ESD Pin - 130gF, 1,000,000 Operations, Manual Insertion	401-1068-ND	.81	.75	.69	KSF0M311
7.4mm sq, w/o ESD Pin - 300gF, 100,000 Operations, Manual Insertion	401-1069-ND	.74	.69	.63	KSF0M411
7.4mm sq, w/o ESD Pin - 500gF, 100,000 Operations, Manual Insertion	401-1070-ND	1.00	.93	.85	KSF0M511

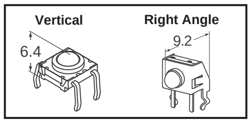
Snap-On Switch Caps for KSF Series



Snap-on buttons for KSF series switches snap over and are held in place by the KSF body. All buttons must be mounted after the soldering and cleaning process. Buttons are able to be Screen printed for custom legend appearances. (Switch is sold separately).

Color	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
10mm Square Cap					
Black	401-1255-ND	.36	.33	.31	BTNK1090
Red	401-1256-ND	.36	.33	.31	BTNK1040
Light Grey	401-1257-ND	.36	.33	.31	BTNK1020
Dark Grey	401-1258-ND	.36	.33	.31	BTNK1010
Yellow	401-1259-ND	.36	.33	.31	BTNK1030
Blue	401-1260-ND	.36	.33	.31	BTNK1060
Green	401-1261-ND	.36	.33	.31	BTNK1050
Ivory	401-1262-ND	.36	.33	.31	BTNK1080
Grey-Blue	401-1263-ND	.36	.33	.31	BTNK1070

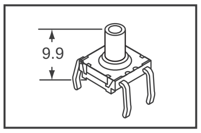
KSJ Series Tact Switches, with Spherical Actuator, (Washable)



KSJ long travel is a miniature tact switch using a single pole normally open contact and is equipped with a spherical actuator. This new version is specially designed for applications where the actuation force can be off center about ±30°. With regard to vertical and even be parallel to the PCB. **Circuit:** SPST-NO **Switching:** Voltage Max.: 50mA, Current Max.: 50mA **Operating Life**: 10^5 **Operating Force:** 100Grams **Operating Temperature:** -40°C to +90°C **Contact Material**: Silver Plated

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical, Tact Switch 7.4mm sq, w/o ESD Pin - 300gF, without Ground Terminal	401-1089-ND	1.20	1.11	1.02	KSJ0M411
Vertical, Tact Switch 7.4mm sq, w/o ESD Pin - 300gF, with Ground Terminal	401-1090-ND	1.20	1.11	1.02	KSJ1M411
Right Angle, Tact Switch 7.4mm sq, w/o ESD Pin - 300gF, without Ground Terminal	401-1091-ND	1.11	1.03	.95	KSJOV411

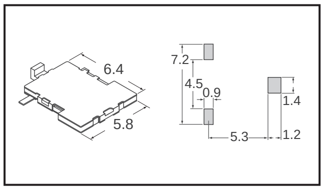
KSL Series Tact Switches, (Washable)



MARK II Versions are improved seal versions for immersed cleaning. **Circuit:** SPST-NO **Switching:** Voltage Max.: 50VDC, Current Max.: 50mA **Contact Resistance:** 50mΩ **Contact Material:** Silver plated **Operating Temperature:** -40°C to +90°C

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical, 7.4mm sq, 130gF, Long, Manual Insertion, 500,000 Operations, Mark II Improved	401-1055-ND	.78	.72	.66	KSL0M212
Vertical, 7.4mm sq, 130gF, Long, Manual Insertion, 1,000,000 Operations, Mark II Improved	401-1056-ND	.81	.75	.69	KSL0M312
Vertical, 7.4mm sq, 300gF, Long, Manual Insertion, 100,000 Operations, Mark II Improved	401-1057-ND	.78	.72	.66	KSL0M412
Vertical, 7.4mm sq, 500gF, Long, Manual Insertion, 100,000 Operations, Mark II Improved	401-1058-ND	1.00	.93	.85	KSL0M512
Right Angle, 7.4mm sq, 130gF, 500,000 Operations, Sealed	401-1063-ND	.81	.75	.69	KSL0V211
Right Angle, 7.4mm sq, 130gF, 1,000,000 Operations, Sealed	401-1064-ND	1.00	.93	.85	KSL0V311
Right Angle, 7.4mm sq, 300gF, 100,000 Operations, Sealed	401-1065-ND	.81	.75	.69	KSL0V411
Right Angle, 7.4mm sq, 500gF, 100,000 Operations, Sealed	401-1066-ND	1.13	1.05	.96	KSL0V511
Vertical, 7.4mm sq, 130gF, Long, Manual Insertion, 500,000 Operations, Sealed	401-1059-ND	.78	.72	.66	KSL1M211
Vertical, 7.4mm sq, 130gF, Long, Manual Insertion, 1,000,000 Operations, Sealed	401-1060-ND	.81	.75	.69	KSL1M311
Vertical, 7.4mm sq, 300gF, Long, Manual Insertion, 100,000 Operations, Sealed	401-1061-ND	.78	.72	.66	KSL1M411
Vertical, 7.4mm sq, 500gF, Long, Manual Insertion, 100,000 Operations, Sealed	401-1062-ND	1.00	.93	.85	KSL1M511

KSM Series SMT Detector Switches

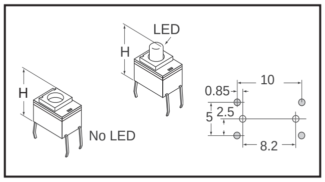


KSM is a miniature low profile switch, single pole, normally closed contacts. Actuation is made parallel to the PCB. Volume control and push to talk switch for portable phone. Soft tactile feel applications. **Circuit:** SPST-NC **Switching:** Voltage Max.: 24VDC, Current Max.: 50mA **Operating Life:** ≥50^4 **Operating Force:** 90 Grams **Operating Temperature:** -40°C to +85°C

Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Industries Part No.
Side Actuated, 90gF, Flux Sealed	401-1092-1-ND	1.51	1.40	1.28	1674.00/2,000	KSM1131

*For tape and reel part number, change -1-ND to -2-ND.

K6 Series Tactile Switches



Follow the trend toward miniaturization. Distinctive tactile feel. High switching reliability. Custom designed button required. **Circuit:** SPST-NO **Switching:** Voltage Max.: 30 VDC, Current Max.: 100 mA **Contact Resistance:** 50mΩ **Total Travel:** 1.5mm **Contact Material:** Gold over Nickel **Operating Temperature:** -40°C to +85°C

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Momentary Action, 300gF, No LED	8.4	401-1163-ND	1.44	1.16	.92	K6B 1.5 3N
Momentary Action, 300gF, Green-LED Illum.	12.3	401-1164-ND	2.30	1.84	1.46	K6BL GN 1.5 3N L906
Momentary Action, 300gF, Orange-LED Illum.	12.3	401-1166-ND	2.30	1.84	1.46	K6BL OG 1.5 3N L405
Momentary Action, 300gF, Red-LED Illum.	12.3	401-1167-ND	2.30	1.84	1.46	K6BL RD 1.5 3N L352
Momentary Action, 300gF, Yellow-LED Illum.	12.3	401-1169-ND	2.30	1.84	1.46	K6BL YE 1.5 3N L327
Momentary Action, 500gF, Red-LED Illum.	12.3	401-1168-ND	2.30	1.84	1.46	K6BL RD 1.5 5N L352
Momentary Action, 500gF, Green-LED Illum.	12.3	401-1165-ND	2.30	1.84	1.46	K6BL GN 1.5 5N L906
Momentary Action, 500gF, Yellow-LED Illum.	12.3	401-1170-ND	2.30	1.84	1.46	K6BL YE 1.5 5N L327

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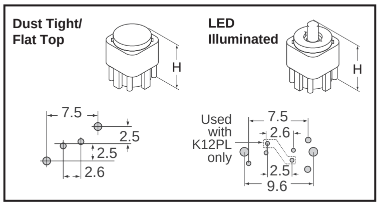
Successful in measurement and control equipment, in industrial electronics, as well as in automotive applications.

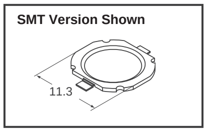
Circuit: SPST-NO
Switching: Voltage Max.: 30VDC,
Current Max.: 100mA
Contact Resistance: 50 mΩ
Contact Material: Gold over Nickel
Operating Temperature: -40°C to +85°C

K12 Series Tactile Switches



Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Round, Mom., 500gF, Dust Tight (Process Sealed)	12	401-1159-ND	8.02	6.42	5.08	K12C 1 5N
Round, Mom., 250gF, Dust Tight (Process Sealed)	12	401-1158-ND	8.02	6.42	5.08	K12C BK 1 2.5N
Flat Top, Mom., 250gF, Cap, Black	11	401-1156-ND	2.81	2.25	1.78	K12P BK 1.5 2.5N
Flat Top, Mom., 500gF, Cap, Black	11	401-1157-ND	2.81	2.25	1.78	K12P BK 1.5 5
Mom., 500gF, Green-LED Illumination	14.5	401-1160-ND	4.23	3.39	2.69	K12PL GN 1.5 5N
Mom., 500gF, Red-LED Illumination	14.5	401-1161-ND	4.23	3.39	2.69	K12PL RD 1.5 5N
Mom., 500gF, Yellow-LED Illumination	14.5	401-1162-ND	4.23	3.39	2.69	K12PL YE 1.5 5N

ED and EDM Series Snap Domes



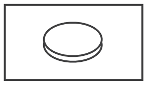
ED Series: Disc contact is a momentary tact switch with short travel and good tactile feedback. The ED series of discs are a snap dome short travel dome contact for mounting directly on a PCB. Designed for low profile applications where end users want to use a customized overlay to go over these domes. PC mount leads or SMT terminals available. **Circuit:** SPST-NO **Switching:** Voltage Max.: Silver/Gold 100VAC/DC, Current Max.: (Silver: 100mA), (Gold: 50mA) **Contact Resistance:** (Silver: 10 mΩ), (Gold: 15 mΩ) **Total Travel:** 0.3mm **Operating Temperature:** -25°C to +70°C

EDM Series: The EDM series of discs are higher performance longer travel snap domes specifically designed for applications such as aircraft instrumentation, radio keypads or other demanding applications. PC mount leads or SMT terminals available. **Circuit:** SPST-NO **Switching:** Voltage Max.: 100VDC, Current Max.: 50mA **Contact Resistance:** 15mΩ **Total Travel:** 0.4mm **Operating Temperature:** -55°C to +85°C

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
ED Series Snap Domes					
Mom. w/PC Pins, 240gF, Flux Sealed, Gold Plating	401-1015-ND	2.61	2.10	1.66	ED G AC 0
Mom. w/PC Pins, 240gF, Fully Sealed, Gold Plating	401-1017-ND	2.64	2.12	1.68	ED G AC 1
Mom. w/PC Pins, 240gF, Flux Sealed, Silver Plating	401-1014-ND	1.10	.88	.70	ED S AC 0
Mom. w/PC Pins, 240gF, Fully Sealed, Silver Plating	401-1016-ND	1.13	.91	.72	ED S AC 1
EDM Series Snap Domes					
Mom. with PC Pins, 450gF, Gold Plating	401-1019-ND	6.20	4.97	3.93	EDM 450 G AC
Mom. with SMT Tabs, 450gF, Gold Plating	401-1020-ND	6.20	4.97	3.93	EDM 450 G SC
Mom. with PC Pins, 450gF, Silver Plating	401-1021-ND	3.55	2.85	2.25	EDM 450 S AC
Mom. with PC Pins, 650gF, Gold Plating	401-1018-ND	7.19	5.76	4.56	EDM 650 G AC

SD Dome Switches

SD domes are designed for PCB applications. Available in stainless steel and are intended to short PCB traces on your board. Perfect for flat panel layouts and low profile mounting.
Circuit: SPST-NO **Switching:** Voltage/Current: MOS, TTL Compatible
Operating Temperature: -40°C to +85°C



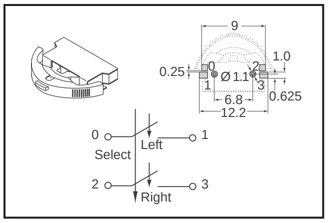
Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
SD Dome Switches					
Mom. Action, Long Life, 225gF, Stainless Steel, Dia. 6.86mm	401-1013-ND	.34	.32	.29	SD270225SS
Mom. Action, Long Life, 225gF, Stainless Steel, Dia. 8.89mm	401-1012-ND	.34	.32	.29	SD350225SS

TPC Tri-Directional Scan Switch

The TPC is a side-actuated miniature switch with normally open contacts providing tactile feedback. Rotation of the actuator closes two individual contacts (left or right), while pushing down in central position closes simultaneously the two contacts.

Applications: Mobile phones, pagers, personal data assistant (PDA), handheld electronic devices, digital cameras, camcorders, and communication equipment

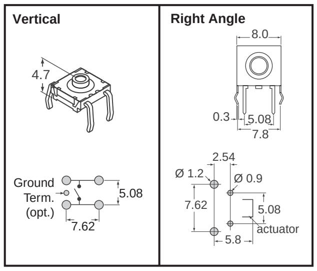
Maximum Voltage: 50V **Min./Max. Current:** 1mA/50mA **Life Expectancy:** 100 K Operations **Bounce:** <10 ms **Operating Temperature:** -40°C to +125°C



Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	ITT Industries Part No.
SMD Switch with Select	401-1264-1-ND	1.77	1.64	1.51	401-1264-2-ND	982.80/M	TPC1133G

KSA Series Sealed Tact Switches, (Washable)

Miniature tact switch is a single pole, single throw, normally open and designed for automatic or manual insertion.
Circuit: SPST-NO
Switching: Current Max.: 50mA, Voltage Max.: 50VDC
Contact Resistance: 50mΩ
Total Travel: .03 – 0.5mm
Operating Life: 10^5
Operating Temperature: -40°C to +90°C



Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical, 7.4mm sq, 130gF, w/o Ground Terminal	401-1047-ND	.74	.69	.63	KSA0M211
Vertical, 7.4mm sq, 130gF, Long Life, w/o Ground Term.	401-1048-ND	.81	.75	.69	KSA0M311
Vertical, 7.4mm sq, 300gF, w/o Ground Terminal	401-1049-ND	.74	.69	.63	KSA0M411
Vertical, 7.4mm sq, 500gF, w/o Ground Terminal	401-1050-ND	1.00	.93	.85	KSA0M511
Right Angle, 7.4mm sq, 130gF, w/o Ground Terminal	401-1051-ND	.80	.74	.68	KSA0V211
Right Angle, 7.4mm sq, 130gF, Long Life, w/o Gnd Term.	401-1052-ND	.93	.86	.79	KSA0V311
Right Angle, 7.4mm sq, 300gF, w/o Ground Terminal	401-1053-ND	.80	.74	.68	KSA0V411
Right Angle, 7.4mm sq, 500gF, w/o Ground Terminal	401-1054-ND	1.13	1.05	.96	KSA0V511
Vertical, 7.4mm sq, 130gF, with Ground Terminal	401-1043-ND	.74	.69	.63	KSA1M211
Vertical, 7.4mm sq, 130gF, Long Life, w/Ground Terminal	401-1044-ND	.81	.75	.69	KSA1M311
Vertical, 7.4mm sq, 300gF, with Ground Terminal	401-1045-ND	.74	.69	.63	KSA1M411
Vertical, 7.4mm sq, 500gF, with Ground Terminal	401-1046-ND	1.00	.93	.85	KSA1M511

Snap-On Switch Caps for KSA Series

Snap-on buttons for Vertical KSA switches, snap over and are held in place by the KSA body. All buttons must be mounted after the soldering and cleaning process. Buttons are able to be Screen printed for custom legend appearances. (Switch is sold separately).

Fig. 1

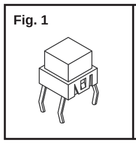
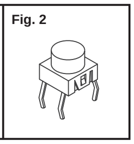


Fig. 2



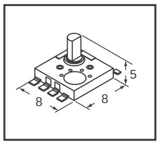
Color	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Fig. 1 — 10mm Square Cap					
Black	401-1237-ND	.36	.33	.31	BTNK0190
Red	401-1238-ND	.36	.33	.31	BTNK0140
Light Grey	401-1239-ND	.36	.33	.31	BTNK0120
Dark Grey	401-1240-ND	.36	.33	.31	BTNK0110
Yellow	401-1241-ND	.36	.33	.31	BTNK0130
Blue	401-1242-ND	.36	.33	.31	BTNK0160
Green	401-1243-ND	.36	.33	.31	BTNK0150
Ivory	401-1244-ND	.36	.33	.31	BTNK0180
Grey-Blue	401-1245-ND	.36	.33	.31	BTNK0170
Fig. 2 — 8mm Round Cap					
Black	401-1246-ND	.36	.33	.31	BTNK0290
Red	401-1247-ND	.36	.33	.31	BTNK0240
Light Grey	401-1248-ND	.36	.33	.31	BTNK0220
Dark Grey	401-1249-ND	.36	.33	.31	BTNK0210
Yellow	401-1250-ND	.36	.33	.31	BTNK0230
Blue	401-1251-ND	.36	.33	.31	BTNK0260
Green	401-1252-ND	.36	.33	.31	BTNK0250
Ivory	401-1253-ND	.36	.33	.31	BTNK0280
Grey-Blue	401-1254-ND	.36	.33	.31	BTNK0270

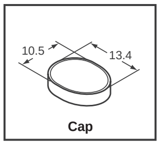
TPA Series SMT Navigation Switches

Actuating the shaft in the up, down, right or left direction individually closes four momentary contacts, which provide the scanning function.

Switching: Voltage Max.: 24V, Current Max.: Silver: 50mA, Gold: 10mA

Operating Temperature: Silver: -40°C to +85°C, Gold: -40°C to +110°C





Cap

Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Ind. Part No.
Momentary, 2-Directional w/Selection, 180gF, Gold, Gullwing	401-1277-1-ND *NEW!*	1.19	1.10	1.01	657.00/1,000	TPA311G
Momentary, 4-Directional w/o Selection, 180gF, Gold, Gullwing	401-1129-1-ND	1.83	1.70	1.56	1015.20/1,000	TPA413G
Momentary, 4-Directional w/Selection, 400gF, Gold, Gullwing	401-1131-1-ND	2.10	1.95	1.78	1164.60/1,000	TPA513G
Momentary, 4-Directional w/Selection, 400gF, Silver, Gullwing	401-1130-1-ND	1.56	1.44	1.32	862.20/1,000	TPA511G
NEW! Cap for TPA Series NEW!						
Snap-on Cap for TPA Switch, Black	401-1265-ND	1.25	1.16	1.06	—	BTNTPA0290

*For tape and reel part no., change -1-ND to -2-ND.

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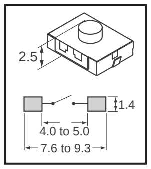
KSR Series Low Profile Tact Switches



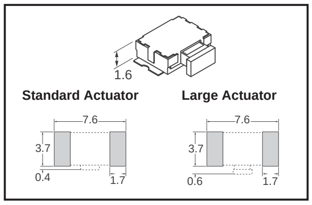
The KSR Series Switches are a miniature tact switch, single pole, normally open contact. The extremely small overall dimensions make the KSR fit perfectly in small applications where density of components is a major constraint.

Applications: Cellular phones, recorders, computers, pointers, radios, medical instrumentation and car entry remote. **Circuit:** SPST-NO **Switching:** Voltage Max.: 20mV/50V **Current:** 1mA/50mA **Operating Temperature:** -40°C to +85°C **Contact Material:** Silver Plated

Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Industries Part No.
Miniature Tact Switch, 120gF, J-Lead, SMT	401-1271-1-ND *NEW!*	.43	.47	.43	697.50/2,500	KSR211J
Miniature Tact Switch, 120gF, Gull-Lead, SMT	401-1273-1-ND *NEW!*	.75	.70	.64	1044.00/2,500	KSR211G
Miniature Tact Switch, 200gF, J-Lead, SMT	401-1094-1-ND	.50	.47	.43	697.50/2,500	KSR221J
Miniature Tact Switch, 200gF, Gull-Lead, SMT	401-1274-1-ND *NEW!*	.94	.87	.80	1305.00/2,500	KSR223GNC
Miniature Tact Switch, 300gF, J-Lead, SMT	401-1095-1-ND	.50	.47	.43	697.50/2,500	KSR231J
Miniature Tact Switch, 450gF, J-Lead, SMT	401-1096-1-ND	.50	.47	.43	697.50/2,500	KSR251J
Miniature Tact Switch, 450gF, J-Lead, SMT	401-1275-1-ND *NEW!*	.74	.69	.63	1026.00/2,500	KSR253J

*For tape and reel part number change -1-ND to -2-ND.

KSS Series Miniature Side - Actuated Tact Switches (SMT)

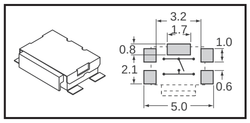


The KSS is a normally open, momentary, single pole-single throw miniature switch.
It is mainly dedicated to applications with a high density of components. **Circuit:** SPST-NO **Switching:** Voltage Max.: 50V Min./Max Current: 1mA/50mA **Life Expectancy:** 10^5 operations **Operating Temperature:** -40°C to +85°C

Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Ind. Part No.
Standard Actuator, 200gF, Gullwing	401-1097-1-ND	.44	.41	.38	729.00/3,000	KSS221G
Standard Actuator, 250gF, Gullwing	401-1098-1-ND	.44	.41	.38	729.00/3,000	KSS231G
Standard Actuator, 400gF, Gullwing	401-1099-1-ND	.50	.47	.43	837.00/3,000	KSS241G
Large Actuator, 200gF, Gullwing	401-1100-1-ND	.42	.39	.36	691.20/3,000	KSS321G
Large Actuator, 250gF, Gullwing	401-1101-1-ND	.42	.39	.36	696.60/3,000	KSS331G
Large Actuator, 400gF, Gullwing	401-1102-1-ND	.45	.42	.38	745.20/3,000	KSS341G

*For tape and reel part no. change -1-ND to -2-ND

NEW! KMS Miniature Side Actuated Tact Switch

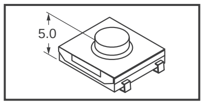


Extremely small size for applications in pagers, medical PDS's and mobile handheld devices. Good tactile feel for feedback to the user. Grounded cover for ESD protection.

Specifications: • Contact Agreement: SPST, N.O. **Mechanical:** • Actuating Force: 2.5 N±25% • Life Expectancy: 100,000 Operations **Electrical:** Maximum Voltage: 50VDC, Maximum Current DC: 50mA • Bounce Time: ≤3ms **Environmental:** Operating Temperature: -40°C to +85°C

Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Ind. Part No.
Microminiature Tact Switch, Gullwing, Silver Plated	401-1266-1-ND	.50	.47	.43	837.00/3,000	KMS231G
Microminiature Tact Switch, Gullwing, Gold Plated	401-1276-1-ND	.56	.52	.48	934.20/3,000	KMS233G

KST Series SMT Rubber Tact Switches

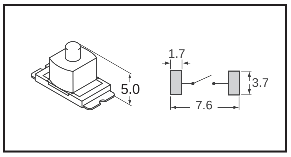


The KST is a miniature tact switch with a rubber actuator used to provide a tactile effect similar to the feeling given by the conductive rubber products and a travel which is more than twice the standard tact switch travel of the KSA or KSC product line. **Circuit:** SPST-NO **Switching:** Voltage Max.: 30V, Current Max.: 50mA **Life Expectancy:** 100,000 cycles **Operating Temperature:** -40°C to +85°C

Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Ind. Part No.
Tact Switch - 6.2mm sq - 200gF, Gullwing	401-1103-1-ND	.40	.37	.34	219.60/1,000	KST221G
Tact Switch - 6.2mm sq - 200gF, J-Type	401-1104-1-ND	.40	.37	.34	219.60/1,000	KST221J
Tact Switch - 6.2mm sq - 350gF, Gullwing	401-1105-1-ND	.42	.39	.36	230.40/1,000	KST241G
Tact Switch - 6.2mm sq - 350gF, J-Type	401-1106-1-ND	.42	.39	.36	230.40/1,000	KST241J

*For tape and reel part number change -1-ND to -2-ND

KSU Series Subminiature Detector Switch



The KSU is a top actuated ultraminiature detector switch without tactile feedback and normally open contacts. **Circuit:** SPST **Maximum Voltage:** 50V Min/Max Current: 1mA/10mA **Life Expectancy:** 100,000 operations **Operating Force:** 70 Grams **Contacts:** Gold **Operating Temperature:** -40°C to +125°C

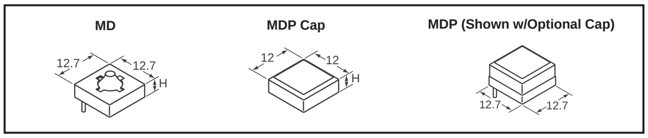
Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Industries Part No.
Detect Switch - 7 x 3.5mm, N/O Standard Actuator, Gullwing	401-1093-1-ND	.73	.68	.63	610.20/1,500	KSU113W

*For tape and reel part number change -1-ND to -2-ND

MD and MDP Series Push Button Switches

MD Series: Small momentary key switch including a protective rubber actuator. **Circuit:** SPST **Switching:** Voltage Max.: 100V AC/DC, Current Max.: (Silver: 100mA AC/DC), (Gold: 50mA AC/DC) **Operating Temperature:** -25°C to +70°C

MDP Series: Small momentary key switch equipped with button, can be PC mounted. **Circuit:** SPST **Switching:** Voltage Max.: 100V AC/DC, Current Max.: (Silver: 100mA AC/DC), (Gold: 50mA AC/DC) **Operating Temperature:** -25°C to +70°C

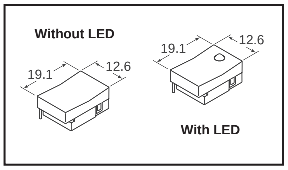


Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
MD Series Push Button						
Push Button, Momentary, with Rubber Actuator, 240gF, Gold Plated	5	401-1172-ND•	3.43	2.75	2.18	MD G
Push Button, Momentary, with Rubber Actuator, 260gF, Silver Plated	5	401-1171-ND•	2.15	1.72	1.36	MD S
MDP Series Push Button						
Push Button, Momentary, No Cap, 240gF, Gold Plated	4.1	401-1174-ND•	3.43	2.75	2.18	MDP G
Push Button, Momentary, No Cap, 260gF, Silver Plated	4.1	401-1173-ND•	1.96	1.57	1.25	MDP S

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Switch Caps for MDP Series					
White, 12mm sq, Finger Recessed	401-1175-ND•	.52	.42	.33	BTN MDP 00
Grey, 12mm sq, Finger Recessed	401-1176-ND•	.52	.42	.33	BTN MDP 20
Red, 12mm sq, Finger Recessed	401-1177-ND•	.52	.42	.33	BTN MDP 40
Blue, 12mm sq, Finger Recessed	401-1178-ND•	.52	.42	.33	BTN MDP 60
Black, 12mm sq, Finger Recessed	401-1179-ND•	.52	.42	.33	BTN MDP 90

• Not recommended for new design.

MDPL Series Momentary Rocker Type Switches



Circuit: SPST-NO **Switching:** Power Max.: 6W AC/DC, Voltage Max.: 100V AC/DC **Current:** 100mA AC/DC **Operating Temperature:** -25°C to +70°C **Contact Material:** Silver Plated

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Rocker Type, 200gF, with White Cap, No LED	401-1183-ND•	2.62	2.10	1.67	MDPL 0 S BTN 00
Rocker Type, 200gF, with Light Grey Cap, No LED	401-1180-ND•	2.62	2.10	1.67	MDPL 0 S BTN 20
Rocker Type, 200gF, with Red Cap, No LED	401-1181-ND•	2.62	2.10	1.67	MDPL 0 S BTN 40
Rocker Type, 200gF, with Black Cap, No LED	401-1182-ND•	2.62	2.10	1.67	MDPL 0 S BTN 90
Rocker Type, 200gF, Light Grey Cap with Red LED	401-1185-ND•	3.43	2.75	2.18	MDPL 1 S 40 BTN 20
Rocker Type, 200gF, Black Cap with Red LED	401-1184-ND•	3.43	2.75	2.18	MDPL 1 S 40 BTN 90
Rocker Type, 200gF, Red Cap with Green LED	401-1187-ND•	3.92	3.14	2.49	MDPL 1 S 50 BTN 40
Rocker Type, 200gF, Black Cap with Green LED	401-1186-ND•	3.92	3.14	2.49	MDPL 1 S 50 BTN 90

• Not recommended for new design.

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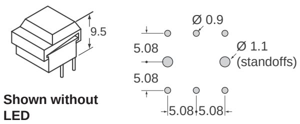
REKN Series Push Button Switches

Circuit: SPST-NO **Switching:** Voltage Max.: (Gold: 25V DC), (Silver: 60V DC) **Switching Current:** (Gold: 10mA DC), (Silver: 60mA DC) **Operating Life:** 500,000 operations **Contact Resistance:** (Gold: 100mΩ), (Silver: 50mΩ) **Operating Temperature:** -25°C to +70°C

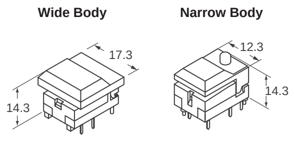


Shown without LED

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Momentary Action, 120gF, with Red LED, Black Cap	401-1190-ND	7.53	6.03	4.78	REK-NL-AG-01-1-1
Momentary Action, 120gF, with Yellow LED, Black Cap	401-1189-ND	8.08	6.47	5.12	REK-NL-AU-01-1-2
Momentary Action, 120gF, Black Cap	401-1188-ND	3.27	2.62	2.07	REKN BK AU

DIGITAST SE Series Key Switches

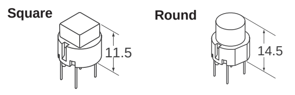
This series is the most versatile electronic switch for printed circuit boards, especially when used with dual in-line packages. Vibration free, short smooth travel through pivoted button tops. Available as momentary button switch as well as push-push action with over-travel release. Micro SPDT system with tactile feeling. Two integral molded "standoff" pins for alignment on PC boards. **Circuit:** SPDT **Switching:** Voltage Max.: 24V AC Current Max.: 10mA DC **Operating Life:** OA: 5,000,000 operations, EE: 500,000 operations **Switching Travel:** .0591



Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Alternate Action, Black Cap, No LED, Narrow Body	401-1108-ND	5.43	4.83	4.23	SE R BK AU EE
Momentary Action, Black Cap, No LED, Narrow Body	401-1107-ND	4.10	3.65	3.20	SE R BK AU OA
Momentary Action, Blue Cap, No LED, Narrow Body	401-1229-ND	4.10	3.65	3.20	SE R BU AU OA
Momentary Action, Green Cap, No LED, Narrow Body	401-1230-ND	4.10	3.65	3.20	SE R GN AU OA
Alternate Action, Grey Cap, No LED, Narrow Body	401-1110-ND	5.43	4.83	4.23	SE R GY AU EE
Momentary Action, Grey Cap, No LED, Narrow Body	401-1109-ND	4.10	3.65	3.20	SE R GY AU OA
Alternate Action, Red Cap No LED, Narrow Body	401-1112-ND	5.65	5.03	4.40	SE R RD AU EE
Momentary Action, Red Cap, No LED, Narrow Body	401-1111-ND	4.10	3.65	3.20	SE R RD AU OA
Momentary Action, White Cap, No LED, Narrow Body	401-1231-ND	4.10	3.65	3.20	SE R WH AU OA
Momentary Action, Yellow Cap No LED, Narrow Body	401-1232-ND	4.10	3.65	3.20	SE R YE AU OA
Momentary Action, Black Cap with Green-LED, Narrow Body	401-1115-ND	5.84	5.20	4.55	SE R L BK GN AU OA
Alternate Action, Black Cap, with Green-LED, Narrow Body	401-1116-ND	6.93	6.16	5.39	SE R L BK GN AU EE
Alternate Action, Black Cap, with Red-LED, Narrow Body	401-1114-ND	6.93	6.16	5.39	SE R L BK RD AU EE
Momentary Action, Black Cap with Red-LED, Narrow Body	401-1113-ND	5.44	4.84	4.23	SE R L BK RD AU OA
Alternate Action, Grey Cap, with Green-LED, Narrow Body	401-1119-ND	6.93	6.16	5.39	SE R L GY GN AU EE
Alternate Action, Grey Cap, with Red-LED, Narrow Body	401-1118-ND	6.93	6.16	5.39	SE R L GY RD AU EE
Momentary Action, Grey Cap, with Red-LED, Narrow Body	401-1117-ND	5.44	4.84	4.23	SE R L GY RD AU OA
Alternate Action, Black Cap, with Red/Green-LED, Narrow Body	401-1120-ND	8.33	7.40	6.48	SER2LBKRDGNAUEE
Alternate Action, Grey Cap, with Red/Green-LED, Narrow Body	401-1121-ND	8.33	7.40	6.48	SER2LGYRDGNAUEE
Alternate Action, Black Cap, No LED, Wide Body	401-1123-ND	5.43	4.83	4.23	SE T BK AU EE
Momentary Action, Black Cap, No LED, Wide Body	401-1122-ND	4.10	3.65	3.20	SE T BK AU OA
Momentary Action, Grey Cap, No LED, Wide Body	401-1124-ND	4.10	3.65	3.20	SE T GY AU OA
Momentary Action, Blue Cap, No LED, Wide Body	401-1233-ND	4.10	3.65	3.20	SE T BU AU OA
Momentary Action, Red Cap, No LED, Wide Body	401-1234-ND	4.10	3.65	3.20	SE T RD AU OA
Momentary Action, White Cap, No LED, Wide Body	401-1235-ND	4.10	3.65	3.20	SE T WH AU OA
Momentary Action, Yellow Cap, No LED, Wide Body	401-1236-ND	4.10	3.65	3.20	SE T YE AU OA
Alternate Action, Black Cap, with Green-LED, Wide Body	401-1127-ND	6.93	6.16	5.39	SE T L BK GN AU EE
Alternate Action, Black Cap, with Red-LED, Wide Body	401-1126-ND	6.93	6.16	5.39	SE T L BK RD AU EE
Momentary Action, Black Cap, with Red-LED, Wide Body	401-1125-ND	5.44	4.84	4.23	SE T L BK RD AU OA
Momentary Action, Grey Cap, with Red-LED, Wide Body	401-1128-ND	5.44	4.84	4.23	SE T L GY RD AU OA

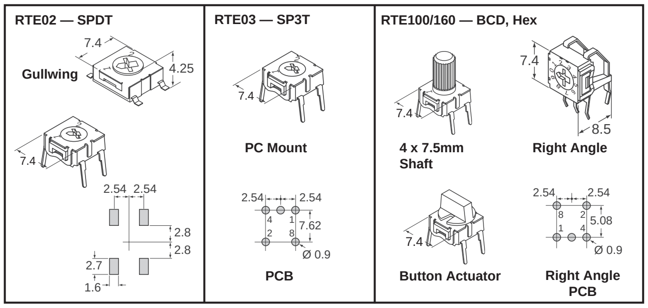
D6 Series Push Button Switches

The D6 is an open keyswitch specially designed for digital electronic controls. Comes complete with colored cap already attached. **Circuit:** SPST **Switching:** Current Max.: 100mA AC **Dielectric Strength:** 1000VAC **Contact Resistance:** 100mΩ **Switching Travel:** 0.031 **Contact Material:** Silver Plated **Operating Temperature:** -20°C to +85°C



Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Square Cap, White, Momentary Action, 130gF	401-1004-ND	.94	.75	.60	D6 C 00
Square Cap, Grey, Momentary Action, 130gF	401-1005-ND	.94	.75	.60	D6 C 10
Square Cap, Red, Momentary Action, 130gF	401-1002-ND	.94	.75	.60	D6 C 40
Square Cap, Blue, Momentary Action, 130gF	401-1006-ND	.94	.75	.60	D6 C 60
Square Cap, Black, Momentary Action, 130gF	401-1003-ND	.94	.75	.60	D6 C 90
Round Cap, White, Momentary Action, 130gF	401-1009-ND	.94	.75	.60	D6 R 00
Round Cap, Grey, Momentary Action, 130gF	401-1010-ND	.94	.75	.60	D6 R 10
Round Cap, Red, Momentary Action, 130gF	401-1007-ND	.94	.75	.60	D6 R 40
Round Cap, Blue, Momentary Action, 130gF	401-1011-ND	.94	.75	.60	D6 R 60
Round Cap, Black, Momentary Action, 130gF	401-1008-ND	.94	.75	.60	D6 R 90

RTE Series Miniature Rotary Switches



Switching: Voltage Max.: RTE02, RTE03: 50V DC; RTE10, RTE16: 30V DC **Current:** 100mA **Contact Resistance:** RTE02, RTE03: 100mΩ; RTE10, RTE16: 150mΩ **Operating Temperature:** -25°C to +85°C **Storage Temperature:** -40°C to +85°C

Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Industries Part No.
SPDT	2 Position Selector, Gullwing, Silver Plating	401-1022-1-ND	2.67	2.47	2.27	1849.50/1,250	RTE0200G01
	2 Position Selector, PC Mount, Silver Plating	401-1023-ND	2.31	1.85	1.47	—	RTE0200N01
	2 Position Selector, 4 x 7.5mm Shaft, Silver Plating	401-1024-ND	2.70	2.16	1.71	—	RTE0201N01
	2 Position Selector, Button Actuator, Silver Plating	401-1025-ND	2.70	2.16	1.71	—	RTE0202N01
SP3T	3 Position Selector, Gullwing, Silver Plating	401-1026-ND	2.47	1.98	1.57	—	RTE0300G01
	3 Position Selector, PCB Mount, Silver Plating	401-1027-ND	2.31	1.85	1.47	—	RTE0300N01
	3 Position Selector, 4 x 7.5mm Shaft, Silver Plating	401-1028-ND	2.70	2.16	1.71	—	RTE0301N01
	3 Position, Button Actuator, Silver Plating	401-1029-ND	2.70	2.16	1.71	—	RTE0302N01
BCD	Decimal Code, Gullwing, Gold Plated	401-1030-1-ND	4.41	4.08	3.74	3053.25/1,250	RTE1000G13
	Decimal Code, PCB Mount, Gold Plating	401-1031-5-ND	3.82	3.06	2.42	—	RTE1000N13
	Decimal Code, Right Angle, Gold Plating	401-1033-5-ND	4.01	3.21	2.55	—	RTE1000V13
	Decimal Code, 4 x 7.5mm Shaft, Gold Plating	401-1032-5-ND	3.84	3.07	2.44	—	RTE1001N13
	Decimal Code, Button Actuator, Gold Plating	401-1034-5-ND	3.84	3.07	2.44	—	RTE1002N13
HEX	Hexadecimal Code, Gullwing, Gold Plating	401-1035-1-ND	4.49	4.15	3.81	3111.75/1,250	RTE1600G43
	Hexadecimal Code, Right Angle, Gold Plating	401-1036-5-ND	3.89	3.11	2.47	—	RTE1600N43
	Hexadecimal Code, 4 x 7.5mm Shaft, Gold Plating	401-1037-5-ND	3.92	3.14	2.48	—	RTE1601N43
	Hexadecimal Code, Right Angle, Gold Plating	401-1038-5-ND	4.10	3.29	2.60	—	RTE1601V43
	Hexadecimal Code, Button Actuator, Gold Plating	401-1039-5-ND	3.92	3.14	2.48	—	RTE1602N43

*For tape and reel part no. change -1-ND to -2-ND

Note: Only N version with Flush Top for automatic insertion.

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Optional Switch Caps for RTE Series					
Red, Open Window Style for Button Act. Switch Only	401-1040-ND	.35	.28	.23	BTNRTE40
Green, Open Window Style for Button Act. Switch Only	401-1041-ND	.35	.28	.23	BTNRTE50
Black, Open Window Style for Button Act. Switch Only	401-1042-ND	.35	.28	.23	BTNRTE90

Alcoswitch / **tyco** Electronics **Authorized Distributor**

Push Button Switches

Alcoswitch Pushbuttons features high temperature plastics, having contacts of silver clad and gold plated to satisfy the requirements of logic level and power switching applications. We carry a wide variety of accessories; caps, guards, and boot seals to give you that professional finished look.

Fig.	Circuit	Action	Contact Rating	Features	Digi-Key Part No.	Price Each 1	25	50	AlcoSwitch Part No.
1	SPST	Mom	0.4VA	Black Sq. Actuator	450-1122-ND	3.83	2.98	2.83	TP11CGPC0
	SPST	Mom	0.4VA	Red Sq. Actuator	450-1124-ND	4.57	3.56	3.37	TP11CGPC2
	SPST	Mom	0.4VA	Black Round Actuator	450-1118-ND	3.35	2.61	2.48	TPA11CGPC0
	SPST	Mom	0.4VA	Red Round Actuator	450-1120-ND	4.34	3.38	3.21	TPA11CGPC2
2	SPST	Mom	0.4VA	Black Sq. Actuator	450-1123-ND	3.65	2.84	2.69	TP11CGRA0
	SPST	Mom	0.4VA	Red Sq. Actuator	450-1125-ND	4.73	3.68	3.49	TP11CGRA2
	SPST	Mom	0.4VA	Black Round Actuator	450-1119-ND	4.97	3.87	3.67	TPA11CGRA0
	SPST	Mom	0.4VA	Red Round. Actuator	450-1121-ND	4.01	3.12	2.96	TPA11CGRA2
	SPDT	Mom	0.4VA	Black Round. Actuator	450-1090-ND	6.41	4.99	4.74	TPA11FGRA0
	SPDT	Mom	0.4VA	Red Round Actuator	450-1091-ND	5.94	4.62	4.39	TPA11FGRA2
3	SPST	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1114-ND	4.23	3.29	3.13	TPB11CGPC0
	SPST	Mom	0.4VA	10-48 Bushing Black Actuator	450-1107-ND	8.35	6.50	6.16	TPC11CGPC0
	SPST	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1116-ND	5.24	4.08	3.87	TPD11CGPC0
	SPST	Mom	0.4VA	Unthreaded Bushing - Red Actuator	450-1117-ND	5.99	4.66	4.42	TPD11CGPC2
	SPST	Mom	0.4VA	Unthreaded Bushing - Sealed SMD	450-1069-ND	8.64	6.72	6.38	TSPD11CGSRA0
	SPST	Mom	0.4VA	Unthreaded Bushing - Sealed	450-1138-ND	6.12	4.76	4.52	TSPD11CGRA0
4	SPDT	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1068-ND	4.75	3.70	3.51	TPB11FGVRA0
5	SPST	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1074-ND	4.84	3.77	3.57	TPB11CGRA0
	SPST	Mom	0.4VA	Unthreaded Bushing - Red Actuator	450-1075-ND	6.23	4.85	4.60	TPB11CGRA2
	SPDT	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1067-ND	5.90	4.59	4.35	TPB11FGRA0
	SPST	Mom	0.4VA	10-48 Bushing - Black Actuator	450-1108-ND	9.14	7.11	6.74	TPC11CGRA0
	DPDT	Mom	0.4VA	10-48 Bushing - Black Actuator	450-1081-ND	10.86	9.51	8.15	TPC21RGPC0
	SPST	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1115-ND	5.94	4.62	4.39	TPD11CGRA0
	SPDT	Mom	0.4VA	1/4 x 40 Bushing - Black Actuator	450-1095-ND	8.44	6.57	6.23	TPF11CGRA0
	SPDT	Mom	0.4VA	1/4 x 40 Bushing - Red Actuator	450-1096-ND	10.35	8.05	7.64	TPF11CGRA2
6	SPDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1087-ND	10.22	7.95	7.54	MPA106D
	SPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1089-ND	12.86	11.26	9.65	MPA106F
	DPDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1083-ND	12.52	10.96	9.39	MPA206N
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1088-ND	10.64	9.31	7.98	MPA206R
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1084-ND	11.98	10.49	8.99	MPA206RPC
	3PDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1077-ND	17.50	15.32	13.13	MPA306F
	4PDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1079-ND	20.44	17.89	15.33	MPA406R
	SPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1093-ND	10.02	8.77	7.52	MPE106F
	DPDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1072-ND	17.68	15.47	13.26	MPE206N
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1094-ND	13.24	11.59	9.93	MPE206R
	4PDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1071-ND	23.08	20.20	17.31	MPE406N
	4PDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1080-ND	25.50	22.32	19.13	MPE406R
7	SPST	Mom - NC	0.5A	THD Bushing with Black Cap	450-1103-ND	5.63	4.38	4.15	MPA103B
	SPST	Mom - NO	0.5A	THD Bushing with Black Cap	450-1109-ND	3.56	2.77	2.63	MPA103C
	SPDT	Mom (Tactile)	3A	THD Bushing with Black Cap	450-1092-ND	9.56	7.44	7.06	MPA103F
	SPST	Mom - NO	3A	THD Bushing with Red Cap	450-1113-ND	3.74	2.91	2.76	MPB103C
8	SPDT	Alt/Act	6A	THD Bushing with Black Cap	450-1126-ND	11.38	9.96	8.54	MPG106D
	SPDT	Mom	6A	THD Bushing with Black Cap	450-1086-ND	10.60	8.25	7.82	MPG106F
	DPDT	Alt/Act	6A	THD Bushing with Black Cap	450-1073-ND	16.64	14.56	12.48	MPG206N
	DPDT	Mom	6A	THD Bushing with Black Cap	450-1085-ND	16.42	14.37	12.32	MPG206R
	DPDT	Mom	6A	THD Bushing with Black Cap	450-1082-ND	14.52	12.71	10.89	MPG206RPC
	3PDT	Alt/Act	6A	THD Bushing with Black Cap	450-1070-ND	20.82	18.22	15.62	MPG306D
	3PDT	Mom	6A	THD Bushing with Black Cap	450-1076-ND	18.88	16.52	14.16	MPG306F
	4PDT	Mom	6A	THD Bushing with Black Cap	450-1078-ND	27.86	24.38	20.90	MPG406R
9	SPST	Mom - NC	0.5A	THD Bushing with Black Cap	450-1097-ND	6.26	4.87	4.62	MSPF101B
	SPST	Mom	0.5A	THD Bushing with Red Cap	450-1098-ND	5.60	4.36	4.14	MSPF101C
10	SPST	Mom - NC	1.0VA	THD Bushing with Black Cap	450-1102-ND	21.06	18.43	15.80	MSPM101B0
	SPST	Mom	1.0VA	THD Bushing with Red Cap	450-1105-ND	24.44	21.39	18.33	MSPM101C2
	SPST	Mom - NC	1.0VA	THD Bushing with Black Cap	450-1101-ND	21.30	18.64	15.98	MSPM101B1
	SPST	Mom	1.0VA	THD Bushing with Red Cap	450-1104-ND	21.56	18.87	16.17	MSPM101C1
	SPST	Mom	1.0VA	THD Bushing with Red Plunger	450-1112-ND	20.00	17.50	15.00	MSPM101CS1
11	SPST	Mom - NC	3A	THD Bushing - Black Actuator	450-1100-ND	3.04	2.37	2.25	MSP103B
	SPST	Mom	3A	THD Bushing - Black Actuator	450-1106-ND	3.20	2.49	2.36	MSP103C0
	SPST	Mom	3A	THD Bushing - Red Actuator	450-1111-ND	4.86	3.78	3.59	MSP103C2
	SPST	Mom - NC	3A	THD Bushing - Black Actuator	450-1099-ND	1.44	1.12	1.07	MSPS103B
	SPST	Mom	3A	THD Bushing - Red Actuator	450-1110-ND	1.67	1.30	1.23	MSPS103C

Fig. 1

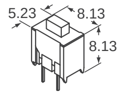


Fig. 2

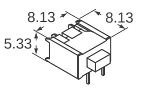


Fig. 3

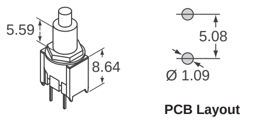
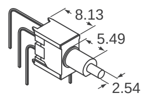


Fig. 4



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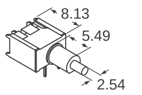
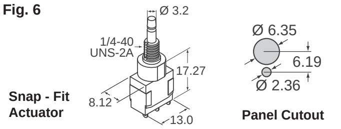


Fig. 6



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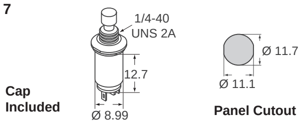


Fig. 8

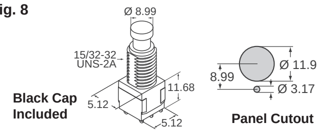


Fig. 9

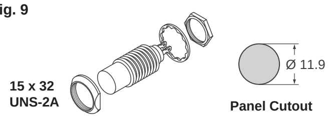


Fig. 10

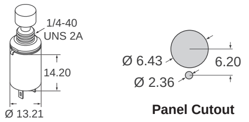
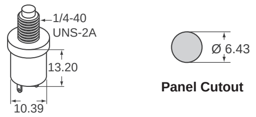


Fig. 11



Push Button Accessories

Switch Caps: gloss finish. **Bushing Guards:** G12C and G13C are chromed brass; remaining are aluminum. **Waterproof Boot Seals:** fabricated of Neoprene rubber for an environmental seal; Hex nuts are molded-in the Neoprene.

Fig.	Description	Color/ Type	Use With	Digi-Key Part No.	Price Each 1	25	50	AlcoSwitch Part No.
1	Switch Cap, .394" dia, for Snapfit Plunger (Fig. 6) Above	Black	MPS/MSPM/MPE/MPA6	450-1053-ND	.78	.69	.65	C220
	Switch Cap, .394" dia, for Snapfit Plunger (Fig. 6) Above	Red	MPS/MSPM/MPE/MPA6	450-1054-ND	.64	.56	.54	C222
	Switch Cap, .394" dia, for Snapfit Plunger (Fig. 6) Above	Green	MPS/MSPM/MPE/MPA6	450-1057-ND	.86	.76	.72	C225
	Switch Cap, .394" dia, for Snapfit Plunger (Fig. 6) Above	Blue	MPS/MSPM/MPE/MPA6	450-1056-ND	.60	.53	.50	C226
	Switch Cap, .590" dia, for Snapfit Plunger (Fig. 6) Above	Black	MPS/MSPM/MPE/MPA6	450-1055-ND	1.00	.88	.83	C230
	Switch Cap, .590" dia, for Snapfit Plunger (Fig. 6) Above	Red	MPS/MSPM/MPE/MPA6	450-1059-ND	.96	.84	.80	C232
	Switch Cap, .590" dia, for Snapfit Plunger (Fig. 6) Above	Green	MPS/MSPM/MPE/MPA6	450-1058-ND	1.16	1.02	.97	C235
2	Bushing Guard 10-48 THD Smooth Finish	Aluminum	1/4 x 40 THD	450-1065-ND	1.88	1.65	1.57	G12A
	Bushing Guard 10-48 THD Smooth Finish	Blk Alum	1/4 x 40 THD	450-1063-ND	1.58	1.39	1.32	G12B
	Bushing Guard 10-48 THD Smooth Finish	Brass	1/4 x 40 THD	450-1064-ND	2.16	1.89	1.80	G12C
	Bushing Guard 1/4 x 40 THD Knurled Finish	Aluminum	1/4 x 40 THD	450-1066-ND	1.98	1.74	1.65	G12KA
	Bushing Guard 1/4 x 40 THD Smooth Finish	Brass	1/4 x 40 THD	450-1061-ND	2.56	2.24	2.13	G13C
	Bushing Guard 1/4 x 40 THD Knurled Finish	Aluminum	1/4 x 40 THD	450-1062-ND	2.68	2.35	2.23	G13KA
	Bushing Guard 15/32" THD Smooth Finish	Aluminum	MSPF Series	450-1060-ND	3.38	2.96	2.81	G15
3	Waterproof Boot 10-48 THD H = .276	Black	TP Series	450-1044-ND	3.26	2.86	2.71	BP10480
	Waterproof Boot 1/4 x 40 THD H = .460	Black	MSPM/MPA3/MPS/TP	450-1045-ND	3.86	3.38	3.21	BP14400
	Waterproof Boot 1/4 x 40 THD H = .460	Gray	MSPM/MPA3/MPS/TP	450-1046-ND	4.08	3.57	3.39	BP14408
	Waterproof Boot 1/4 x 40 THD H = .300	Black	MSPMBS/MSPMCS and	450-1051-ND	4.12	3.61	3.42	BPA14400
	Waterproof Boot 1/4 x 40 THD H = .300	Gray	MSP3/MPA3/TP	450-1052-ND	4.98	4.36	4.14	BPA14408
	Waterproof Boot 1/4 x 40 THD H = .460	Black	MSPM/MPS3/MPA3/TP	450-1049-ND	4.20	3.68	3.49	BP2010
	Waterproof Boot 15/32-32 THD H = .472	Black	MSPF/MPG	450-1047-ND	3.52	3.08	2.93	BP15320
	Waterproof Boot 15/32-32 THD H = .472	Red	MSPF/MPG	450-1048-ND	4.80	4.20	3.99	BP15322
	Waterproof Boot 15/32-32 THD H = .472	Black	MSPF/MPG	450-1050-ND	4.08	3.57	3.39	BP5900

Fig. 1

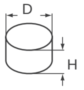


Fig. 2

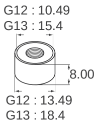
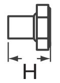
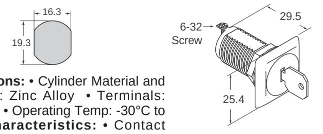


Fig. 3



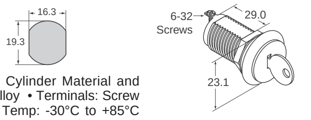
Keylock Switchlocks

Fig. 1



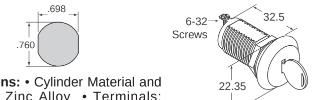
Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temp: -30°C to +85°C **Characteristics:** • Contact Rating: 1A @ 120VAC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 10,000 Cycles

Fig. 2



Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temp: -30°C to +85°C **Characteristics:** • Contact Rating: 1A @ 120VAC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 10,000 Cycles

Fig. 3



Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temp: -30°C to +85°C **Characteristics:** • Contact Rating: 5A @ 115VAC, 15A @ 24VDC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 20,000 Cycles

Fig.	Lock Configuration	No Poles	Keypoll Possible	Switch Type	Current	Terminal	Digi-Key Part No.	Price Each 1	10	25	50	AlcoSwitch Part No.
1	90° Indexing	SPST	1 & 2	On-Off	1A	6-32 Screw	450-1003-ND	15.12	13.83	12.96	12.53	2SKF132AEL01
	90° Indexing	SPST	1 only	On-Off	1A	6-32 Screw	450-1005-ND	15.59	14.26	13.37	12.92	2SKF131AEL01
	90° Indexing	SPST	1 only	Off-Mom	1A	6-32 Screw	450-1008-ND	24.66	22.55	21.14	20.44	2SKF231AEL01
Spare Key for Alco SKF Series Switches, L01 Code							450-1000-ND	2.66	—	2.33	2.21	SK1323AEL01
2	90° Indexing	SPST	1 & 2	On-Off	1A	6-32 Screw	450-1004-ND	19.25	17.60	16.50	15.95	2SWK132AL1S01
	90° Indexing	SPST	1 only	On-Off	1A	6-32 Screw	450-1006-ND	22.86	20.90	19.59	18.94	2SWK131AL101
	90° Indexing	SPST	1 only	On-Off	1A	6-32 Screw	450-1007-ND	14.26	13.04	12.23	11.82	2SWK231AL101
Spare Key for Alco SWK13 Series Switches, L101 Code							450-1001-ND	3.20	—	2.80	2.66	SWK1323AL101
3	90° Indexing	SPST	1 & 2	Off-On	5A	6-32 Screw	450-1011-ND	19.16	17.52	16.43	15.88	SWK12F315
	90° Indexing	SPST	2 only	Off-On	5A	6-32 Screw	450-1010-ND	27.81	25.43	23.84	23.05	SWK121F315
	90° Indexing	SPST	1 only	Off-On	5A	6-32 Screw	450-1009-ND	20.56	18.80	17.63	17.04	SWK123F315
Spare Key for Alco SWK12 Series Switches, F-315 Code							450-1002-ND	4.42	—	3.87	3.67	SWK12KF315

Note: All Keylocks are supplied with 2 brass keys on a ring.

Rocker Switches

Alcoswitch TRD Series are robust Rocker Switches designed for a round hole mounting. All switches are black in color and come complete with mounting nut. **Contact Rating:** 3A @ 125VAC (Silver) and 0.4VA Max. @ 20VDC (Gold)

Fig. 1

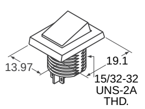


Fig. 2

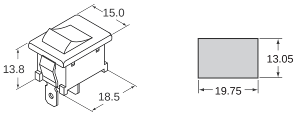
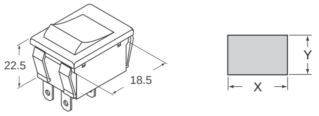


Fig. 3



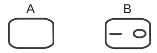


Fig.	Circuit	Function	Terminal	Features	Current	Digi-Key Part No.	Price Each 1	10	25	50	AlcoSwitch Part No.
TRD Series — Round Mounting Hole Rocker Switches											
1A	DPDT	On-On	.093" QC	Blk Actuator - No Marking	3A - Silver	450-1012-ND	11.12	10.29	9.73	9.23	TRD23N10QC
	DPDT	On-On	Solder	Blk Actuator - No Marking	3A - Silver	450-1013-ND	9.42	8.72	8.25	7.82	TRD23N10WL
	DPDT	On-On	Solder	Blk Actuator - No Marking	3A - Silver	450-1014-ND	8.44	7.81	7.39	7.01	TRD21N10WL
	SPDT	On-On	Solder	Blk Actuator - No Marking	3A - Silver	450-1017-ND	5.70	5.28	4.99	4.74	TRD13D10WL
	SPDT	On-On	Solder	Blk Actuator - No Marking	.4VA - Gold	450-1016-ND	5.30	4.91	4.64	4.40	TRD11D10WL
	SPDT	On-On	.093" QC	Blk Actuator - No Marking	.4VA - Gold	450-1018-ND	9.74	9.01	8.53	8.09	TRD11F10QCLR2
	SPDT	On-Off-On	Solder	Blk Actuator - No Marking	.4VA - Gold	450-1015-ND	8.86	8.20	7.76	7.36	TRD11H10WL
PR Series — Miniature Snap-In Rocker Switches											
2A	DPST	On-Off	QC	Black Actuator - No Marking	7A - Silver	450-1025-ND	3.38	2.60	2.34	1.82	PRADA1-07F-BB000
	DPST	On-Off	QC	Black Actuator - No Marking	16A - Silver	450-1027-ND	2.57	1.98	1.78	1.39	PRDDA1-16F-BB000
	SPST	On-Off	QC	Black Actuator - No Marking	16A - Silver	450-1040-ND	1.11	.85	.77	.60	PRASA1-16F-BB000
	DPST	On-On	QC	Black Actuator - No Marking	7A - Silver	450-1024-ND	3.90	3.00	2.70	2.10	PRADD1-07F-BB000
	SPST	On-On	QC	Black Actuator - No Marking	16A - Silver	450-1042-ND	1.33	1.03	.93	.72	PRASD1-16F-BB000
	DPDT	On-Off-On	QC	Black Actuator - No Marking	7A - Silver	450-1020-ND	3.90	3.00	2.70	2.10	PRADD3-07F-BB000
	SPDT	On-Off-On	QC	Black Actuator - No Marking	16A - Silver	450-1028-ND	1.33	1.03	.93	.72	PRASD3-16F-BB000
	SPST	On-Off	QC	Red LED Window - No Marking	16A - Silver	450-1041-ND	2.54	1.95	1.76	1.37	PRASC1-16F-BBR00
	SPST	On-Off	QC	Red Dot Illumination	16A - Silver	450-1043-ND	1.40	1.08	.97	.76	PRASB2-16F-BBR00
2B	SPST	On-Off	QC	Blk/Red Actuator - I/O Marking	16A - Silver	450-1019-ND	1.11	.85	.77	.60	PRASA2-16F-BBR00
—	SPST	On-Off	QC	Euro-Style - Blk. - No Marking	16A - Silver	450-1038-ND	1.14	.88	.79	.62	PRBSA1-16F-BB000
—	SPST	On-On	QC	Euro-Style - Blk. - No Marking	16A - Silver	450-1039-ND	1.82	1.40	1.26	.98	PRBSD1-16F-BR000
—	SPDT	On-Off-On	QC	Euro-Style - Blk. - No Marking	16A - Silver	450-1029-ND	1.82	1.40	1.26	.98	PRBSD3-16F-BB000
3A	DPST	On-On	QC	Black Actuator - No Marking	16A - Silver	450-1026-ND	3.15	2.43	2.19	1.70	PRDDD1-16F-BB000
	DPDT	On-Off-On	QC	Black Actuator - No Marking	16A - Silver	450-1021-ND	3.45	2.65	2.39	1.86	PRDDD3-16F-BB000

A Series Rocker Switches

Specifications: • **Contacts/Terminals:** Silver/tin lead • **Case Material:** Thermoset 94V-0 • **Operating Temperature:** -20°C to +85°C **Characteristics:** • **Contact Rating:** Silver: 2A @ 250VAC; 5A @ 125 VAC • **Contact Timing:** Break-before-make • **Life Expectancy:** 30,000 Cycles

Fig. 1

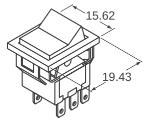


Fig. 2

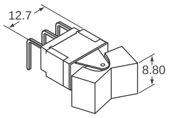


Fig. 3

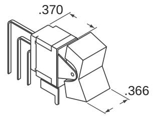


Fig. 4

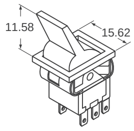


Fig.	Circuit	Function	Terminal	Features	Contact Rating	Digi-Key Part No.	Price Each 1	10	25	50	AlcoSwitch Part No.
1	SPDT	On-On	Solder Term	Snap-In Blk Bezel	5A	450-1034-ND	5.90	5.46	5.17	4.90	A101J51ZQ00
	SPDT	On-Off-On	Solder Term	Snap-In Blk Bezel	5A	450-1036-ND	6.46	5.98	5.66	5.37	A103J51ZQ00
	SPDT	Mom-Off-Mom	Solder Term	Snap-In Blk Bezel	5A	450-1033-ND	7.30	6.76	6.39	6.06	A105J51ZQ00
	DPDT	On-On	Solder Term	Snap-In Blk Bezel	5A	450-1022-ND	8.74	8.09	7.65	7.26	A201J51ZQ00
	DPDT	On-Off-On	Solder Term	Snap-In Blk Bezel	5A	450-1023-ND	10.16	9.40	8.89	8.44	A203J51ZQ00
2	SPDT	On-On	Right Angle PCB	Black Actuator	5A	450-1030-ND	7.42	6.87	6.50	6.16	A101J1AQ0
3	SPDT	On-On	Right Angle PCB	Black Actuator	5A	450-1031-ND	6.30	5.83	5.52	5.23	A101J1AV0
4	SPDT	On-On	Solder Term	Snap-In Blk Bezel	5A	450-1035-ND	5.88	5.44	5.15	4.89	A101J61ZQ00
	SPDT	On-Off-On	Solder Term	Snap-In Blk Bezel	5A	450-1037-ND	6.10	5.65	5.34	5.07	A103J61ZQ00
	SPDT	Mom-Off-Mom	Solder Term	Snap-In Blk Bezel	5A	450-1032-ND	6.54	6.05	5.73	5.43	A105J61ZQ00

Alcoswitch / tyco Electronics Authorized Distributor

Tact Switches

Specifications: • **Operating Temperature:** -20°C to +70°C **Characteristics**: • **Contact Rating:** 50mA @12VDC • **Initial Contact Resistance:** 100 milliohms Max. • **Life Expectancy:** 100,000 Cycles

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Alcoswitch Part No.
1	Tact Switch 12MM SPST Mom 160GF	450-1131-ND	.49	.39	.32	FSM100
2	Tact Switch 12MM with Ext Actuator SPST 160GF	450-1128-ND	.51	.40	.33	FSM102
3	Tact Switch 12MM Right Angle w/ Post Actuator SPST 160GF	450-1127-ND	.52	.42	.34	FSM104
4	Tact Switch 6MM without Gnd. 160GF Black 4.3mm	450-1146-ND	.37	.30	.25	FSM2J
	Tact Switch 6MM without Gnd. 160GF Black 5.0mm	450-1143-ND	.39	.31	.26	FSM4J
	Tact Switch 6MM without Gnd. 160GF Ivory 7.3mm	450-1148-ND	.47	.37	.31	FSM10J
	Tact Switch 6MM without Gnd. 160GF White 8.0mm	450-1145-ND	.47	.37	.31	FSM12J
	Tact Switch 6MM without Gnd. 160GF Black 9.5mm	450-1144-ND	.47	.37	.31	FSM8J
	Tact Switch 6MM without Gnd. 160GF Black 13.0mm	450-1149-ND	.47	.37	.31	FSM14J
	Tact Switch 6MM without Gnd. 160GF Black 17.0mm	450-1142-ND	.49	.39	.32	FSM16J
	Tact Switch 6MM with Gnd. 160GF Black 4.3mm	450-1147-ND	.56	.45	.37	FSM1J
5	Tact Switch SPST with Gnd. 160GF Black SMT	450-1132-ND	.79	.62	.51	FSM1LP
	Tact Switch SPST with Gnd. 260GF Red SMT	450-1139-ND	.79	.62	.51	FSM1LPA
6	Tact Switch 6 x 3.5MM SPST 100GF SMT	450-1140-ND	.75	.59	.49	FSMSM
7	Tact Switch 6MM SMT 160GF Black 4.3mm	450-1130-ND	.43	.34	.28	FSM2JSMA
	Tact Switch 6MM SMT 160GF Black 5.0mm	450-1129-ND	.47	.37	.31	FSM4JSMA
	Tact Switch 6MM SMT 160GF Blue 7.0mm	450-1133-ND	.49	.39	.32	FSM6JSMA
8	Tact Switch 6MM Extended Act Black	450-1141-ND	.36	.28	.23	FSMCD
9	Tact Switch 6MM Right Angle 160GF 3.15mm	450-1135-ND	.47	.37	.31	FSMRA1J
	Tact Switch 6MM Right Angle 160GF 3.86mm	450-1136-ND	.35	.28	.23	FSMRA2J
	Tact Switch 6MM Right Angle 160GF 5.84mm	450-1137-ND	.60	.48	.39	FSMRA3J
	Tact Switch 6MM Right Angle 160GF 11.86mm	450-1134-ND	.54	.43	.35	FSMRA7J

Fig. 1

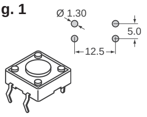


Fig. 2

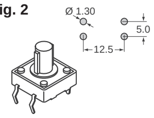


Fig. 3

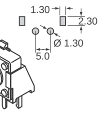
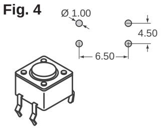


Fig. 4



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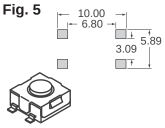


Fig. 6

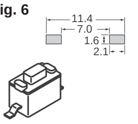


Fig. 7

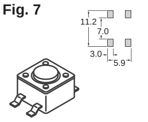


Fig. 8

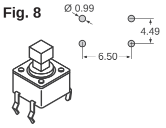
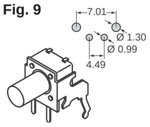


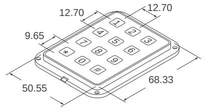
Fig. 9

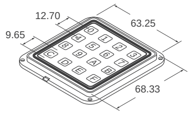


Grayhill INC.

Series 88 Sealed Keypads

Versatile keypads that work indoors or outdoors.





Grayhill Series 88 keypads are fully sealed keypads for use indoors or outdoors that offer a fully sealed snap-dome contact with an operational life of 3 million operations per key. Various colored graphic overlays are available or you can create your own keypad by using 3 items: (1) a blank keyboard; (2) the clear window overlay; (3) a sheet of legend transfers. Optional panel seal gasket provides a dust and water weather seal between your keypad and your equipment panel.

SPECIFICATIONS: ***Rating Criteria:*** • **Rating at 24 Vdc:** 10 milliamps, resistive • **Contact Resistance:** Compatible with MOS, TTL and DTL (10 ohms max.) • **Voltage Breakdown:** 250 Vac between mutually insulated parts • **Life Expectancy:** 3,000,000 operations per button • **Contact Bounce:** Less than 4 milliseconds at make, 10 milliseconds at break • **Operating Temperature:** -40°C to +80°C.

Operating Features: • **Button Travel:** 0.015" (.381mm) nominal total travel • **Typical Operating Force:** 350 grams.
Materials and Finishes: • **Housing:** ABS polycarbonate, black • **Graphic Overlay:** Polyester • **Contact Dome:** Stainless steel, selectively gold plated • **Terminals:** Copper alloy, CDA No. 725, Tin-lead plated.

Fig. 1

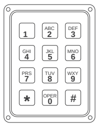


Fig. 2

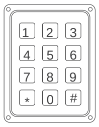


Fig. 3

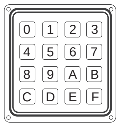


Fig. 4

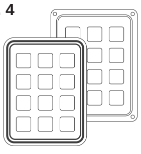


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
	Series 88 Keypads					
1	12-Key Keypad with Black housing; White keys and Black lettering	GH5012-ND	23.60	20.71	17.70	88AB2-143
2	12-Key Keypad with Black housing; White keys and Blue lettering	GH5013-ND	23.60	20.71	17.70	88AB2-152
2	12-Key Keypad with Black housing; Blue keys and White lettering	GH5014-ND	23.60	20.71	17.70	88AB2-172
3	16-Key Keypad with Black housing, Blue/White keys and Black/Blue lettering	GH5015-ND	27.26	23.93	20.45	88BB2-052
	16-Key Keypad with Black housing, Blue keys and White lettering	GH5016-ND	27.26	23.93	20.45	88BB2-072
	16-Key Keypad with Black housing, Red keys and White lettering	GH5017-ND	27.26	23.93	20.45	88BB2-082
	Series 88 Clear Key Keypads — Customize Your Own Keypad Layout					
4	12-Key Keypad with Blank keys for use with Legend sheets below	GH5018-ND	18.73	16.44	14.05	88AB2
	16-Key Keypad with Blank keys for use with Legend sheets below	GH5019-ND	20.82	18.27	15.62	88BB2
	20-Key Keypad with Blank keys for use with Legend sheets below	GH5020-ND	27.74	24.35	20.81	88JB2
—	Legend Sheet, Small Print lettering for Blank Keys, dry transfer type	GH5021-ND	3.78	3.57	2.84	87-DT-2096-088
—	Legend Sheet, Medium Print lettering for Blank Keys, dry transfer type	GH5022-ND	3.78	3.57	2.84	87-DT-2096-125
—	Legend Sheet, Large Print lettering for Blank Keys, dry transfer type	GH5023-ND	3.78	3.57	2.84	87-DT-2096-187
—	Legend Sheet, Medium Print lettering for Blank Keys, self-adhesive type	GH5024-ND	5.23	4.94	3.93	87AC2046
4	Clear Protective Overlay for 12-Key Keypad (protects your customized lettering)	GH5025-ND	17.04	16.10	12.79	88-101
	Clear Protective Overlay for 16-Key Keypad (protects your customized lettering)	GH5026-ND	14.94	14.11	11.21	88-001
	Clear Protective Overlay for 20-Key Keypad (protects your customized lettering)	GH5027-ND	15.48	14.63	11.62	88-201
	Panel Seal Gaskets for Series 88 Keypads					
—	Optional Panel Gasket Seal for all 12-Key Series 88 Keypads - Subpanel Mount	GH5028-ND	1.29	1.22	.97	88M2001-2
—	Optional Panel Gasket Seal for all 16-Key Series 88 Keypads - Subpanel Mount	GH5029-ND	1.32	1.25	.99	88M2009-2
—	Optional Panel Gasket Seal for all 20-Key Series 88 Keypads - Subpanel Mount	GH5030-ND	1.37	1.30	1.03	88M2019-1
—	Optional Panel Gasket Seal for all 12-Key Series 88 Keypads - Top Panel Mount	GH5031-ND	1.62	1.53	1.22	88M2012-1
—	Optional Panel Gasket Seal for all 16-Key Series 88 Keypads - Top Panel Mount	GH5032-ND	1.69	1.60	1.27	88M2015-1
—	Optional Panel Gasket Seal for all 20-Key Series 88 Keypads - Top Panel Mount	GH5033-ND	1.73	1.64	1.31	88M2018-1

Series 96 Keypads

Grayhill's Series 96 are their most economical 3x4 and 4x4 keypad family. They have such features as conductive rubber contacts with an operational life of 3 million operations and a good tactile feel for positive feedback to the operator. GH5001 thru GH5004 have black legends with white keys and a black ABS housing. GH5008 thru GH5011 have white legends with black keys and a black ABS housing.

SPECIFICATIONS: ***Rating Criteria:*** • **Rating at 12Vdc:** 5 mA for .5 seconds • **Contact Bounce:** <12 milliseconds • **Contact Resistance:** <100Ω (@ stated operating force) • **Operation Life:** 3,000,000 min. cycles per key • **Operating Force:** 175 ±40 grams • **Operating Temperature:** -30°C to +80°C ***Material and Finishes:*** • **Terminal Pin:** Phosphor Bronze, solder plated • **PC Board:** FR-4 glass cloth epoxy • **Keypad:** Silicone rubber • **Housing:** ABS, cycolac "KJW" • **Housing Color:** Black • **Output:** Matrix (Rear SIL Header)

12 Key mating connector use Digi-Key part numbers: A3016-ND (connector, 1 piece) / A3007-ND (contacts, 1 package)

16 Key mating connector use Digi-Key part numbers: A3017-ND (connector, 1 piece) / A3007-ND (contacts, 1 package)

Fig. 1 — 3x4 Rear Panel Mount

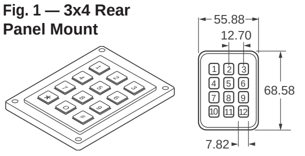


Fig. 2 — 4x4 Front Panel Mount

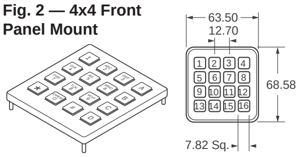


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
1	12 Key Keypad, Front Mount, White Keys	GH5001-ND	11.56	10.15	8.67	96AB2-102-F
1	12 Key Keypad, Rear Mount, White Keys	GH5002-ND	11.56	10.15	8.67	96AB2-102-R
2	16 Key Keypad, Front Mount, White Keys	GH5003-ND	12.87	11.30	9.66	96BB2-006-F
2	16 Key Keypad, Rear Mount, White Keys	GH5004-ND	12.87	11.30	9.66	96BB2-006-R
1	12 Key Keypad, Front Mount, Black Keys	GH5008-ND	11.56	10.15	8.67	96AB2-152-F
1	12 Key Keypad, Rear Mount, Black Keys	GH5009-ND	11.56	10.15	8.67	96AB2-152-R
2	16 Key Keypad, Front Mount, Black Keys	GH5010-ND	12.87	11.30	9.66	96BB2-056-F
2	16 Key Keypad, Rear Mount, Black Keys	GH5011-ND	12.87	11.30	9.66	96BB2-056-R

Cannon

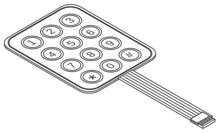
ITT Industries
Engineered for life

Sealed Membrane Keypads

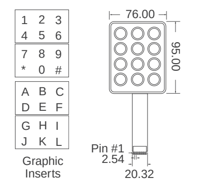
with Removable Legends

12-Key with 2 legend sets - A-L / 1-9 * / #

FEATURES: • Adhesive backed for easy mounting • Tactile feedback on all keys • Attached .1" female connector • Legends easily swapped • Allows for custom legends • Rim embossed keys for finger placement • Splash proof, sealed switches • Low profile height (.059 inches)
SPECIFICATIONS: • **Contact Rating:** 0.5 VA, 100 mA, 30 VDC max. • **Actuation Force:** 300 grams • **Contact Bounce:** Below 10 msec. typ. • **Travel:** 0.63 – 0.76mm typ. • **Operating Temperature:** –30°C to +60°C **MATERIALS:** • **Overlay:** Polyester/polycarbonate blend with uniform low gloss fine texture • **Connector:** Single row female connector, tin lead plating



Digi-Key Part No.	Price Each 1	10	100	ITT Ind. Part No.
CKN6010-ND	25.37	21.91	18.45	4234A1

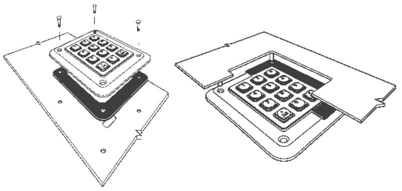


Graphic Inserts

storm
data entry technology

K Range Keypad System

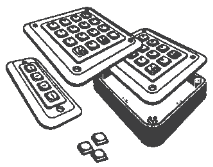
Interchangeable for Different Environments/Applications



Storm K Range keypads are 100% interchangeable to suit any application. Each series is identical in size and mounting specifications, allowing for easy price/performance selection for different environments. Each keypad is available in calculator or telephone formats (arrows or F-Keys on the 4-key version) or the end user may customize by using optional blank keys. All keypads are compatible with the Storm Universal Encoder and includes instructions and a gasket seal. Storm K Range Keypads are ideal for access control, pin numbering/banking functions and kiosk application. Storm 1000 and GFX Series keypads are available with illumination for low light applications. **GENERAL SPECIFICATIONS:** • **Contact bounce:** 5ms (max.) • **Contact resistance:** 100 ohms (max.) • **Insulation resistance:** 50 Meg ohms (min.) • **Breakdown Voltage:** 500V AC (60 Secs) • **Operating Voltage:** 24V DC (max.) • **Operating Current:** 50mA (max.) **ACCESSORIES:** • **Rear Casing:** Provides space to house additional components and circuitry (12 Key format only) • **Privacy-Protection Shroud:** Front-mounted shroud conceals sensitive data entry info. i.e. PINS (12 key format only)

Fig. 1 Storm 1000 Series

Public/Outdoor Environments

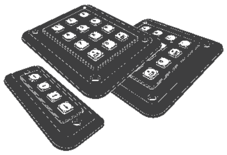


Available with Character Illumination

- Anti-Vandal design ideal for public environment
- Features metal casing and keys
- Fully sealed, to IP67, for use in outdoor environments
- 4, 12 and 16 key formats available
- Available with red/green LED illumination
- Key color: Silver
- Case Color: Silver
- Operational life: 4 Million cycles (min) per key
- Operational temp. range: -40°C to +100°C
- Gold on nickel plated FR4 contact PCB
- Connector: 0.1" pitch, gold plated, square pin, male

Fig. 2 Storm PLX Series

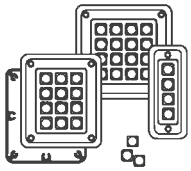
Anti-Vandal, Industrial Sealed Keypad



- Tough metal key keypad with polymer housing
- Ideal for public and industrial environments
- Sealed to IP65 for exposed environments
- 4, 12, and 16 key formats available
- Case Color: Black
- Key Color: Silver
- Operational life: 4 million cycles (min) per key
- Operational temp. range: -40°C to +100°C
- Gold on nickel plated FR4 contact PCB
- Connector: 0.1" pitch, goldplated, square pin, male

Fig. 3 Storm 2000 Series

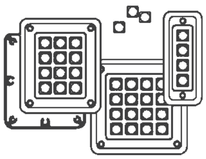
Harsh Industrial/Wet Environments



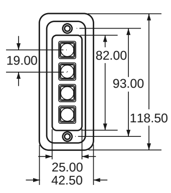
- Impact resistant industrial keypad
- High impact resistant polymer casing and keys
- Sealed to IP65, allowing pressure hose wash
- 4, 12, and 16 key formats available
- Case Color: Mid Gray
- Key Color: Light Gray
- Operational life: 4 million cycles (min) per key
- Operational temp. range: -25°C to +85°C
- Gold on nickel plated FR4 contact PCB
- Connector: 0.1" pitch, gold plated, square pin, male

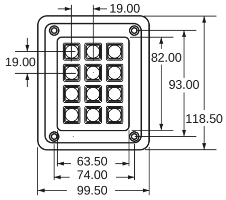
Fig. 4 Storm 3000 Series

General Service/Sheltered Outdoor Use



- Reliable keypad for sheltered environments
- General service polymer casing and keys
- Rain and splash proof to IP54 specifications
- 4, 12, and 16 key formats available
- Case Color: Black
- Key Color: Black
- Operational life: 2 million cycles (min) per key
- Operational temp. range: -10°C to +85°C
- Gold on nickel plated FR4 contact PCB
- Connector: 0.1" pitch, gold plated, square pin, male





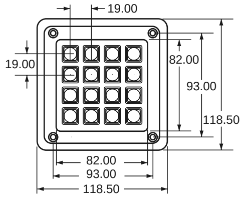


Fig.	Description	Digi-Key Part No.	Price Each	Storm Part No.
	1000 Series (Silver Diecast Housing)			
1	Vandal Resistant 4 Key Keypad, Arrow keys	MGR1512-ND*	45.00	1K041103
	Vandal Resistant 4 Key Keypad, F1-F4 keys	MGR1511-ND*	45.00	1K042103
	Vandal Resistant 12 Key Keypad, Telephone	MGR1513-ND†	65.00	1K12T103
	Vandal Resistant 12 Key Keypad Calculator	MGR1501-ND†	65.00	1K120103
	Vandal Resistant 16 Key Keypad, Telephone	MGR1514-ND‡	75.37	1K16T103
	Vandal Resistant 16 Key Keypad Calculator	MGR1601-ND‡	75.37	1K160103
	Illuminated Vandal Resistant 4 Key Keypad, Arrow keys	MGR1574-ND	56.12	1KL041103
	Illuminated Vandal Resistant 4 Key Keypad, F1-F4 keys	MGR1575-ND	56.12	1KL042103
	Illuminated Vandal Resistant 12 Key Keypad, Calculator	MGR1576-ND	81.06	1KL120103
	Illuminated Vandal Resistant 12 Key Keypad, Telephone	MGR1577-ND	81.06	1KL12T103
	Illuminated Vandal Resistant 16 Key Keypad, Calculator	MGR1578-ND	97.27	1KL160103
	Illuminated Vandal Resistant 16 Key Keypad, Telephone	MGR1579-ND	97.27	1KL16T103
	PLX Series			
2	4-Key Keypad, F1-F4 Keys, Black Case	MGR1541-ND	39.14	PLX042203
	4-Key Keypad, Arrow Keys, Black Case	MGR1542-ND	39.14	PLX041203
	12-Key Keypad, Calculator Format, Black Case	MGR1543-ND	56.55	PLX120203
	12-Key Keypad, Telephone Format, Black Case	MGR1544-ND	56.55	PLX12T203
	16-Key Keypad, Calculator Format, Black Case	MGR1545-ND	69.05	PLX160203
	16-Key Keypad, Telephone Format, Black Case	MGR1546-ND	69.05	PLX16T203
	2000 Series (Mid-Grey Impact Polymer Housing)			
3	Industrial 4 Key Keypad, Arrow keys	MGR1516-ND*	30.93	2K041103
	Industrial 4 Key Keypad, F1-F4 keys	MGR1517-ND*	30.93	2K042103
	Industrial 12 Key Keypad, Calculator Format	MGR1518-ND†	44.89	2K120103
	Industrial 12 Key Keypad, Telephone Format	MGR1519-ND†	44.89	2K12T103
	Industrial 16 Key Keypad, Calculator Format	MGR1520-ND‡	54.87	2K160103
	Industrial 16 Key Keypad, Telephone Format	MGR1521-ND‡	54.87	2K16T103
	3000 Series (Mid-Grey General Service Polymer Housing)			
4	Commercial 4 Key Keypad, Arrow keys	MGR1523-ND*	19.75	3K041103
	Commercial 4 Key Keypad, F1-F4 keys	MGR1524-ND*	19.75	3K042103
	Commercial 12 Key Keypad, Calculator Format	MGR1525-ND†	29.12	3K120103
	Commercial 12 Key Keypad, Telephone Format	MGR1526-ND†	29.12	3K12T103
	Commercial 16 Key Keypad, Calculator Format	MGR1527-ND‡	35.41	3K160103
	Commercial 16 Key Keypad, Telephone Format	MGR1528-ND‡	35.41	3K16T103
	Accessories			
—	Blank Keys for 1000 Series 4 pieces	MGR1515-ND	6.02	1K000003
—	Blank Keys for 2000/3000 Series 4 pieces	MGR1522-ND	2.58	2K000003
—	Rear Casing for 12 Key Keypad	MGR1536-ND	27.50	RC120203
—	Privacy Shroud for 12-Key Keypads	MGR1562-ND	27.05	1KFS0203

* 4 Key Mating Connector use Digi-Key Part Numbers: WM2003-ND (Connector, 1 pkg)/ WM2200-ND (Contacts, 1 pkg)

† 12 Key Mating Connector use Digi-Key Part Numbers: WM2006-ND (Connector, 1 pkg)/ WM2200-ND (Contacts, 1 pkg)

‡ 16 Key Mating Connector use Digi-Key Part Numbers: WM2006-ND (Connector, 1 pkg)/ WM2200-ND (Contacts, 1 pkg)

Universal Encoder

The Universal Keypad Encoder is a compact microprocessor controlled unit designed to interface between Storm Keypads and computers. The encoder converts signals from the keypad to PC XT/AT/PS2 as well as ASCII RS232 and is compatible with Storm 700 Series and K Range Keypads The Universal Encoder can read up to 90 key positions with a single 5V power supply. Complete Instructions included.

MGR1301-ND **$140.56**

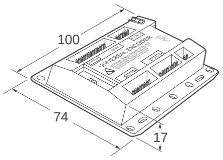
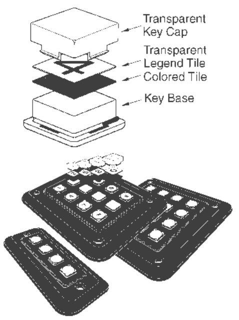


Fig. 5 Storm GFX Series

Customizable Keypad



Available with Full Key Illumination

Graphic Series Keypads feature customizable keytop legends. Keypad layouts are customized by inserting legend tiles into the transparent keycap, then securing the self-locking cap onto the key base. Once pressed into place, the keycap provides a permanent cover, resistant to water, dust, and physical damage.

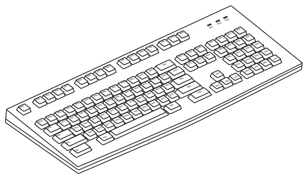
Illuminated Graphic Series Keypads are perfect for dimly lit environments. As well as featuring easily customizable legends, each keytop can illuminated in a wide range of colors using the translucent color tiles. Available with white or red/green LED key illumination.

- Fully customizable impact-resistant keypads
- Ideal for commercial and industrial applications
- Rain and splash proof to IP54 specifications
- 4, 12, and 16 key formats available
- Case Color: Black
- Operational life: 2 million cycles (min) per key
- Operational temp. range -10°C to +85°C
- Gold on nickel plated FR4 contact PCB
- Connector: 0.1" pitch, gold plated, square pin, mail

Fig.	Description	Digi-Key Part No.	Price Each	Storm Part No.
5	4-Key Graphic Keypad and 5 Keycaps, Common Bus	MGR1547-ND	24.80	GS040203
	12-Key Graphic Keypad and 13 Keycaps, Black, Matrix	MGR1548-ND	36.00	GS120203
	16-Key Graphic Keypad and 17 Keycaps, Black, Matrix	MGR1549-ND	44.00	GS160203
	4-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1568-ND	29.67	GSRG040203
	12-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1569-ND	43.09	GSRG120203
	16-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1570-ND	52.67	GSRG160203
	4-Key Illuminated Graphic Keypad (White LED)	MGR1571-ND	34.62	GSLW040203
	12-Key Illuminated Graphic Keypad (White LED)	MGR1572-ND	53.87	GSLW120203
	16-Key Illuminated Graphic Keypad (White LED)	MGR1573-ND	70.23	GSLW160203
	Legend Set A, 0-9, Arithmetic Function, Arrows, 26 Tiles	MGR1550-ND	2.60	GSA0T203
	Legend Set B, Computer Legend, Arrows, 26 Tiles	MGR1551-ND	2.60	GSB0T203
	Legend Set C, Alphabet Legend, 26 Tiles	MGR1552-ND	2.60	GSC0T203
	Legend Set D, F1-F4 Keys, Misc. Keys, 26 Tiles	MGR1553-ND	2.60	GSD0T203
	Legend Set E, Blank Keys Legend, 30 Tiles	MGR1554-ND	2.60	GSE0T203
	Legend Set F, 0-9, Ent., Off, +, -, #, *, 25 Tiles	MGR1555-ND	2.60	GSF0T203
	Gray Colored Legends, 30 Tiles	MGR1556-ND	1.72	GS000203
	Red Colored Legends, 30 Tiles	MGR1557-ND	1.72	GS000303
	Green Colored Legends, 30 Tiles	MGR1558-ND	1.72	GS000403
	Blue Colored Legends, 30 Tiles	MGR1559-ND	1.72	GS000503
	Yellow Colored Legends, 30 Tiles	MGR1560-ND	1.72	GS000603
	Replacement Clear Keycaps, 4 pieces	MGR1561-ND	5.17	GS000003

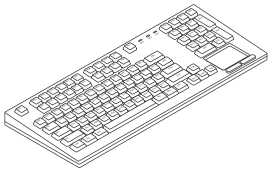
Computer Keyboards

Fig. 1



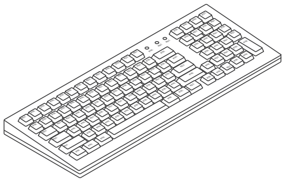
G83-6104: Economical, Windows compatible, 104-key laser printed caps with auto-repeat and full travel keyswitches.

Fig. 2



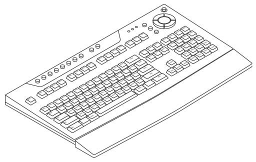
G80-11900: Compact 104-key IBM compatible keyboard with integrated, 2 button touchpad. Perfect for space critical applications.

Fig. 3



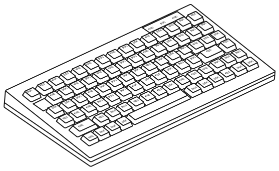
G81-1800: Compact, 104 key, Windows compatible, data entry keyboard, featuring full travel, sealed contact and membrane, AT or PS/2 interface.

Fig. 4



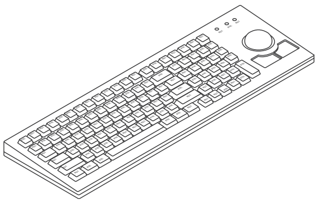
G83-13000: The Blueline which is programmable for fast internet, e-mail and multimedia access at the touch of a single key. 19 programmable Hot keys with detachable wrist rest. Light grey with blue accents.

Fig. 5



G84-4100: Notebook size for applications with space limitations or mobile systems. Windows compatible.

Fig. 6



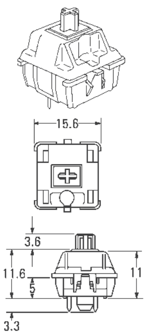
G84-4400: Notebook size with two functions in a single device. Ultra-low profile and an integrated, high quality, PS/2 compatible 16mm trackball, makes this keyboard ideal for applications where space is limited.

Fig.	Description	Digi-Key Part No.	Price Each	Cherry Part No.
	Full Size - 104 Key Computer Keyboards			
1	Full Size, Microsoft Windows™, Laser-Printed Keycaps, PS/2 Interface, Beige in Color	CH216-ND	28.35	G83-6104LPNUS
	Full Size, Microsoft Windows™, Laser-Printed Keycaps, PS/2 Interface, Light Grey in Color	CH738-ND	25.50	G83-6104LPNUS-0
2	Space Saving Size, IBM Compatible with Touch Pad, PS/2 Interface, for PC Systems, AT and Serial Adapters Included, Black in Color	CH718-ND	192.10	G80-11900HVMUS
	Space Saving Size, IBM Compatible with Touch Pad, PS/2 Interface, for PC Systems, AT and Serial Adapters Included, Beige in Color	CH720-ND	175.10	G80-11900LTMUS
3	Space Saving, Microsoft Windows™, PS/2 Interface, Linear Feel with Laser-Printed Keycaps, Light Grey in Color	CH731-ND	68.00	G81-1800LPMUS-0
4	Internet Keyboard, Full-Size, 19 Hot Keys, USB, PS/2 Interface, Detachable Ergonomic Palm Rest, Light Grey w/Blue Accents	CH736-ND	40.80	G83-13000LCAUS-0
	Notebook Style 83 - Key Computer Keyboards			
5	PS/2 Interface, Tampo-Printed Caps, Beige in Color	CH217-ND	75.60	G84-4100PPAUS
	USB Interface, Tampo-Printed Caps, Light Grey in Color	CH742-ND	76.50	G84-4100PCAUS-0
	PS/2 Interface, Tampo-Printed Caps, Black in Color	CH746-ND	78.20	G84-4100PRAUS
	USB Interface, Tampo-Printed Caps, Black in Color	CH747-ND	86.70	G84-4100PTAUS
6	With Integrated Trackball, PS/2 Interface, Tampo-Printed Caps, Black in Color	CH750-ND	178.50	G84-4400PRBUS
	With Integrated Trackball, USB Interface, Tampo-Printed Caps, Black in Color	CH751-ND	178.50	G84-4400PTBUS
	With Integrated Trackball, USB Interface, Tampo-Printed Caps, Beige in Color	CH752-ND	168.30	G84-4400PUBUS

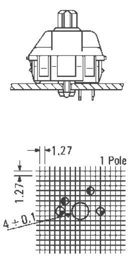
MX Key Switches

Main Advantages: • The MX is a modern full-travel low-profile keyswitch • The keyswitch module is designed to meet all current ergonomic standards demanded for word and data processing applications • Gold wire crossbar contacts ensure long life expectancy • High reliability also during quick actuation • All switches are momentary N/O type

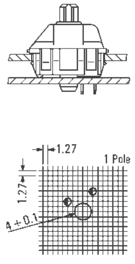
Specifications: • Max. Voltage 12 • Max. Current 10mA • Contact Resistance 200mΩ • Capacity at 1MHz <1pf • Bouncing Time at 0.4 ≤5ms



PCB Mount with Support Pins



Face Plate Mount



Description	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
PCB Mount					
Linear Feel	CH160-ND	.86	.77	.64	MX1A-11NW
Click Tactile Feel	CH197-ND	.95	.84	.70	MX1A-EINW
PCB Mount Soft Tactile Feel	CH310-ND	.70	.63	.53	MX1A-C1NW
PCB Mount with Diode	CH311-ND	2.16	1.92	1.60	MX1A-11DW
Face Plate Mount					
Linear Feel	CH162-ND	.86	.77	.64	MX1A-11NN
Click Tactile Feel	CH196-ND	.86	.77	.63	MX1A-EINN
Soft Tactile Feel	CH198-ND	1.16	1.04	.87	MX1A-CINN
Trans. Cover - use w/ CH696-ND	CH695-ND	.84	.75	.59	6287379
Keycap - use with MX Series Switch, Beige	CH696-ND	.84	.75	.59	6287750

Environmentally Sealed Keypads

700 Series Sealed Keypads

The 700 Series of sealed keypads intended for use individually, or as modular building blocks to create more complex key-panel layouts. Unlike other sealed keypads, the 700 series have excellent tactile characteristics providing fast and reliable data input. When a keytop is depressed a conductive rubber pill makes contact with a gold on nickel plated PCB. These contact materials provide the highest level of protection against corrosive atmospheres and contact oxidization. Each keypad has interchangeable keytop legend tiles. Keypads come in two colors, gray or black, and feature a matrix style output. Instructions and pinouts are included. Compatible with Storm Universal Encoder part number "MGR1301-ND".

Fig. 1

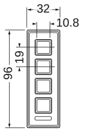


Fig. 2

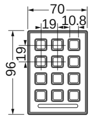


Fig. 3

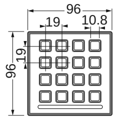


Fig. 4

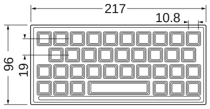


Fig.	Description	Digi-Key Part No.	Price Each
1	4 Key Keypad with Legend Set A, Gray	MGR1101-ND	26.01
	4 Key Keypad with Legend Set A, Black	MGR1111-ND	26.01
2	12 Key Keypad with Legend Set A, Gray	MGR1102-ND	34.68
	12 Key Keypad with Legend Set A, Black	MGR1112-ND	34.68
3	16 Key Keypad with Legend Set A, Gray	MGR1103-ND	44.96
	16 Key Keypad with Legend Set A, Black	MGR1113-ND	44.96
4	36 Key Keypad with Legend Set B & C, Gray	MGR1104-ND	77.16
	36 Key Keypad with Legend Set B & C, Black	MGR1114-ND	77.16
—	Legend Set A 0-9, Arith. Function, Arrows	MGR1201-ND	4.30
	Legend Set B Computer Legend, Arrows	MGR1202-ND	4.30
	Legend Set C Alphabet Legend	MGR1203-ND	4.30
	Legend Set D F1-F12, Misc. Keys	MGR1204-ND	4.30
	Legend Set E Blank Legend	MGR1205-ND	4.30
	Legend Set F 0-9, Ent, Off, +, -, #, *	MGR1206-ND	4.30
	Under Panel Mount Clip (2 pcs.)	MGR1401-ND	3.87

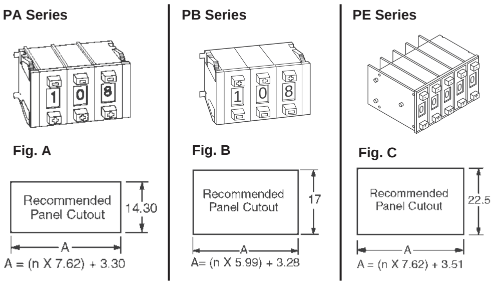
CHERRY Thumbwheel Switches

Fig.	Output Code	Posi-tions	Read-Out	Features	Digi-Key Part No.	Price Each				Cherry Part No.
						1	10	50	100	
PA Pushwheel										
1A	BCD	10	0-9	Extended Buttons	CH178-ND	16.15	14.36	9.41	8.75	PACA-3000
	BCD Compl.	10		Extended Buttons	CH179-ND	24.92	22.16	14.52	13.51	PAEA-3000
	BCD	10		Ext. Board for Diodes	CH180-ND	19.68	17.50	11.47	10.67	PACA-4000
	Decimal	10	0 - 9	Extended Buttons	CH682-ND	22.49	20.00	11.91	11.67	PAAA-3000
	Octal	8	0 - 7	Extended Buttons	CH683-ND	18.77	16.68	10.93	10.17	PABA-3000
	Octal	8	0 - 7	Flush Buttons	CH684-ND	8.10	7.20	4.72	4.39	PABA-3114
	BCD	10	0 - 9	Extended Buttons	CH685-ND	8.10	7.20	4.72	4.39	PACA-3100
	BCD	10	0 - 9	Flush Buttons	CH686-ND	8.10	7.20	4.72	4.39	PACA-3114
	Hexadecimal	16	0 - 15	Extended Buttons	CH687-ND	13.99	12.44	8.15	7.58	PAGA-3100
	Hexadecimal	16	0 - 15	Flush Buttons	CH688-ND	13.99	12.44	8.15	7.58	PAGA-3114
	Hexadecimal	16	0 - 15	Flush Buttons	CH689-ND	15.61	13.88	9.09	8.46	PAGE-3114
	Hexadecimal	16	0 - 15	Flush Buttons	CH690-ND	15.61	13.88	9.09	8.46	PAGN-3114
Right End Caps for PA Switches					CH188-ND	.68	.60	.50	.42	0609-0799
Left End Caps for PA Switches					CH189-ND	.68	.60	.50	.42	0609-0801
Housing .300” (7.62mm) PA Blank Black Matte					CH678-ND	1.03	.92	.76	.63	0609-0797
Spacer .100” (2.54mm) PA Blank Black Matte					CH679-ND	1.03	.92	.76	.63	0609-0803
PB Pushwheel — “Dustproof” Front Mount										
1B	BCD	10	0-9	—	CH185-ND	7.86	6.99	4.08	—	PBC1-E015
Right End Caps for PB Switches					CH194-ND	.68	.60	.50	.42	0609-1347
Left End Caps for PB Switches					CH195-ND	.68	.60	.50	.42	0609-1346
Spacer .100” (2.54mm) for PB Series Black					CH680-ND	1.03	.92	.76	.63	0609-1348
PE Pushwheel										
1C	Decimal	10	0-9	Extended Buttons	CH239-ND	18.66	16.59	10.87	10.11	PEAA-3000
	BCD	10	0-9	Extended Buttons	CH181-ND	18.20	16.18	10.61	9.87	PECA-3000
	Hex	16	0-15	Extended Buttons	CH240-ND	25.08	22.30	14.62	13.60	PEGA-3000
	Hex	16	0-9, A-F	Extended Buttons	CH281-ND	24.76	22.01	14.43	13.42	PEHA-3000
	BCD	10	0-9	Ext. Board for Diodes	CH183-ND	23.06	20.50	13.44	12.50	PECA-4000
Right End Caps for PE Switches					CH190-ND	.68	.60	.50	.42	0609-0756
Left End Caps for PE Switches					CH191-ND	.68	.60	.50	.42	0609-0754
Spacer .300” (7.62mm) PE Blank Black Matte					CH677-ND	1.03	.92	.76	.63	0609-0752
T57 Pushwheel — Back Mount										
2	Decimal	10	0-9	Not for new designs	CH242-ND	14.50	12.89	8.45	7.86	0T57-01M0
T20 Thumbwheel — L20 Leverwheel										
3	Hex	16	0-9, A-F	Not recommended for new designs	CH282-ND	20.84	18.53	12.15	11.30	0T20-13A0
	Decimal	10	0-9		CH233-ND	16.28	14.48	9.49	8.83	0L20-01A0
	Decimal	10	0-9		CH234-ND	16.82	14.96	9.80	9.12	0L20-01M0

NOTE: PAGA: QC terminal **PAGE:** Right angle header **PAGN:** Locking right angle header.

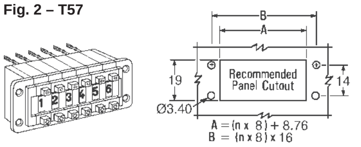
Fig.	Description	Digi-Key Part No.	Price Each			Cherry Part No.
			1	10	100	
Connectors						
4	Connector for PA Series BCD/HEX, PC Mount Terminal	CH271-ND	3.94	3.51	2.44	C2KO-P107
	Connector for PE Series BCD/HEX, PC Mount Terminal	CH274-ND	4.21	3.75	2.61	C2RO-P111
	Connector for PE Series BCD/HEX Solder Eyelet Terminal.	CH681-ND	4.21	3.75	2.61	C2RFN116

Fig. 1 – PA, PB and PE Series



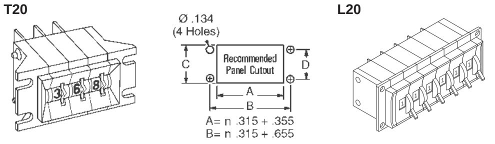
Each digit is a separate module. Combine each module to make a final unit, as shown above.

Fig. 2 – T57



Each digit is a separate module. Combine each module to make a final unit, as shown above.

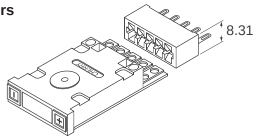
Fig. 3 – T20, L20 (Right and Left End Caps)



Each digit is a separate module. Combine each module to make a final unit, as shown above.

Model	A	B	C	D
T20/L20	(n x 12.70) = 10.29	(n x 12.70) + 15.11	24.89	22.86

Fig. 4 – Connectors



OMRON Thumbwheel Switches

A7B Series:

Features: • Dustproof construction ensures highly reliable performance at low voltage and very small current even under adverse environmental conditions • Switch units can be assembled simply by fitting the integral hook coupler of each unit into the mating unit, thus eliminating the need of nuts and bolts for assembly • Switch assembly can be mounted easily by merely pushing the assembly into the mounting panel cutout from front

A7CN Series:

Features: • Designed specially for printed circuit boards • The transparent window plate fitted in the readout section prevents the ingress of dust and also protects dial characters against wear by incorrect handling • Switch units can be assembled simply by fitting the integral hook coupler of each unit, into the mating unit, thus eliminating the need of nuts and bolts for assembly

A7D Series:

Features: • Cost effectiveness and improved reliability achieved through insert-molding and fewer component parts • Plastic spring with minimal fatigue and a mechanical service life of 30,000

Fig. 1

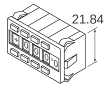


Fig. 2

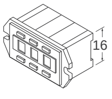
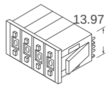


Fig. 3



Each digit is a separate module. Combine each module to make a final unit, as shown above.

Fig.	Output	No. of Positions	Color	Digi-Key Part No.	Price Each			Omron Part No.
					1	25	50	
1	BCD	0-9	Black Gloss	SW266-ND	8.48	7.63	6.78	A7BS-206-1
	BCD	0-9		SW267-ND	8.48	7.63	6.78	A7BS-206-S-1
	BCD with Ext. Brd.	0-9		SW268-ND	9.13	8.22	7.30	A7BS-207-1
	+, - Display Only	+, -		SW269-ND	10.93	9.84	8.74	A7BS-207-PM-1
—	Connector for A7BS Series, Solder Terminal with Mount Ears			SW270-ND	4.98	4.48	3.98	A7B-C
	End Caps for A7BS Series, Left/Right 2 Pcs.			SW271-ND	1.38	1.24	1.10	A7B-M-1
	Spacer for A7BS Series, Black No Marking			SW272-ND	.75	.68	.60	A7B-PA-1
2	BCD (Back Mount)	0-9	Black Gloss	SW273-ND	6.78	6.10	5.42	A7CN-106-1
	BCD (Front Mount)			SW274-ND	6.78	6.10	5.42	A7CN-206-1
—	End Caps for A7CN Series, Back Mount Only			SW275-ND	.83	.75	.66	A7CN-1M-1
	Spacer for A7CN Series, Back Mount Only, Black			SW276-ND	.65	.59	.52	A7CN-1PA-1
	End Caps for A7CN Series, Front Mount Only			SW277-ND	.83	.75	.66	A7CN-2M-1
	Spacer for A7CN Series, Front Mount Only, Black			SW278-ND	.65	.59	.52	A7CN-2PA-1
3	BCD (Back Mount)	0-9	Black Gloss	SW279-ND	5.23	4.71	4.18	A7D-106-1
	BCD (Front Mount)		Black Gloss	SW280-ND	5.23	4.71	4.18	A7D-206-1
	BCD (Back Mount)		Light Gray	SW504-ND	5.23	4.71	4.18	A7D-106
	BCD (Front Mount)		Light Gray	SW505-ND	5.23	4.71	4.18	A7D-206
—	End Caps for A7D Series, Back Mount Only, Black			SW281-ND	.83	.75	.66	A7D-1M-1
	End Caps for A7D Series, Front Mount Only, Black			SW282-ND	.75	.68	.60	A7D-2M-1
	Spacer for A7D Series, Back Mount Only, Black			SW283-ND	.83	.75	.66	A7D-1PA-1
	Spacer for A7D Series, Front Mount Only, Black			SW284-ND	.83	.75	.66	A7D-2PA-1
	End Caps for A7D Series, Back Mount Only, Light Gray			SW506-ND	.83	.75	.66	A7D-1M
	End Caps for A7D Series, Front Mount Only, Light Gray			SW508-ND	.78	.70	.62	A7D-2M
	Spacer for A7D Series, Back Mount Only, Light Gray			SW507-ND	.83	.75	.66	A7D-1PA
	Spacer for A7D Series, Front Mount Only, Light Gray			SW509-ND	.83	.75	.66	A7D-2PA

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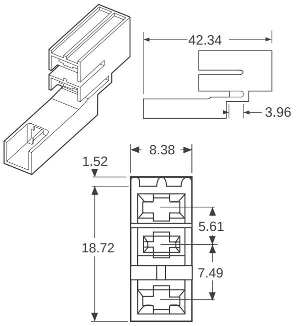
molex Waldom ELECTRONICS

Switch Connector and Terminal (To be used with Omron “V” Series Lever Switch)



Switch Connector:

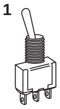
94V-2 Nylon • U.L. Approved • Accepts 14-28 AWG • No. of Circuits: 3 • Max. Current Rating: 10 • Max. Voltage Rating: 250 • Mounting Ears: No • Max. Panel Thickness: N/A • Eng. No.: 2191.

Switch Connector:	Terminal: Without Detent, Loose Form
WM2553-ND	**WM2514-ND**
$.57/1	**$.18**/1
$5.01/10	**$1.44**/10
$33.39/100	**$11.98**/100
$267.12/1000	**$95.82**/1000

Toggle Switches

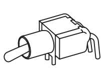
9138B-ND	ITT Industries Switch Data Book **$2.95**

Fig. 1



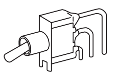
Vertical

Fig. 2



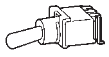
Right Angle

Fig. 3



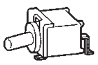
Vertical Rt. Angle

Fig. 4



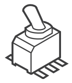
Mini SMT

Fig. 5



Ultra-Mini SMT

Fig. 6



Ultra-Mini SMT

Contact Material Options

B Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA max. @ 20 VAC or DC max.

Q End Contacts: Coin silver, silver plated. Center Contact & All Terminals: Copper alloy, silver plated. Rating: 7000 Series: 5A @ 120 VAC or 2A @ 250 VAC; E-Series: 7.5A @ 125 VAC or 3A @ 250 VAC; T-Series: 3A @ 120 VAC.

G End Contacts: Coin silver, with gold plate over nickel plate. Center Contact & All Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA max. @ 20 VAC or DC max. or 5 amps @ 120 VAC or 28 VDC; 2 amps @ 250 VAC.

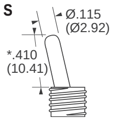
Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			ITT Industries Part No.
		Actuator	Bushing	Termi-nation				1	25	100	
Fig. 1 — Vertical											
SPDT	On-On	S	D9	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1002-ND	5.43	4.35	3.44	7101SD9CQE
	On-On	S	Y	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1003-ND	5.43	4.35	3.44	7101SYCBE
	On-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1004-ND	5.43	4.35	3.44	7101SYCQE
	On-On	S	H3	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1020-ND	7.02	5.62	4.45	7101SH3ZQE
	On-On	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1021-ND	5.28	4.23	3.35	7101SYZBE
SPDT	On-On	S	Y	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1022-ND	5.67	4.54	3.60	7101SYZGE
	On-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1023-ND	5.28	4.23	3.35	7101SYZQE
	On-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1014-ND†	5.43	4.35	3.44	U11SYCQE
	On-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1040-ND†	5.28	4.23	3.35	U11SYZQE
	On-Off-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1005-ND	5.97	4.78	3.79	7103SYCQE
SPDT	On-Off-On	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1025-ND	5.82	4.66	3.69	7103SYZBE
	On-Off-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1026-ND	5.82	4.66	3.69	7103SYZQE
	On-Off-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1008-ND	6.09	4.88	3.86	7107SYCQE
	On-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1028-ND	5.94	4.76	3.77	7107SYZQE
	Mom-Off-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1007-ND	6.09	4.88	3.86	7105SYCQE
SPDT	Mom-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1027-ND	5.94	4.76	3.77	7105SYZQE
	On-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1029-ND	5.94	4.76	3.77	7108SYZQE
	On-On	S	Y	W6	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1213-ND	6.72	5.38	4.26	7101SYW6BE
	On-On	S	Y	W	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1379-ND	5.76	4.61	3.65	7101SYWBE
	On-On	S	Y	W	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1381-ND	5.76	4.61	3.65	7101SYWQE
	On-On	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1091-ND	5.49	4.40	3.48	T101SHCQE
	On-On	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1066-ND	5.67	4.54	3.60	T101SHZQE
SPDT	On-Off-On	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1092-ND	6.60	5.28	4.18	T103SHCQE
	On-Off-On	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1087-ND	6.78	5.43	4.30	T103SHZQE
	On-Off-Mom	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1181-ND	7.02	5.62	4.45	T107SHZQE
	Mom-Off-Mom	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1088-ND	6.78	5.43	4.30	T105SHZQE
	On-On	M	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1000-ND	5.43	4.35	3.44	7101MDCQE
SPDT	On-On	M	D	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1016-ND	5.28	4.23	3.35	7101MDZQE
	On-On	M	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1017-ND	5.28	4.23	3.35	7101MYZQE
	On-On	M	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1042-ND	6.60	5.28	4.18	7101MD9V3BE
	On-On	M	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1175-ND	6.60	5.28	4.18	7101MD9V3QE
	On-0ff-On	M	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1169-ND	7.14	5.72	4.53	7103MD9V3BE
SPDT	On-Off-On	M	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1176-ND	7.14	5.72	4.53	7103MD9V3QE
	On-On	S	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1043-ND	6.60	5.28	4.18	7101SD9V3BE
	On-On	P3	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1001-ND	7.38	5.91	4.68	7101P3YCQE
	On-On	P3	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1018-ND	7.23	5.79	4.58	7101P3YZBE
	On-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1019-ND	7.23	5.79	4.58	7101P3YZQE
SPDT	On-Off-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1024-ND	7.77	6.22	4.93	7103P3YZQE
	On-Off-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1142-ND	7.89	6.32	5.00	7107P3YZQE
	On-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1143-ND	7.89	6.32	5.00	7108P3YZQE
	Mom-Off-Mom	P3	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1006-ND	8.04	6.44	5.10	7105P3YCQE
	On-On	K2	—	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1215-ND	9.18	7.35	5.82	7101K2CBE
SPDT	On-On	K2	K2	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1216-ND	9.18	7.35	5.82	7101K2CQE
	On-On	K2	K2	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1125-ND	9.03	7.23	5.72	7101K2ZQE
	On-On	K2	K2	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1126-ND†	9.03	7.23	5.72	U11K2ZQE
	On-Off-On	K2	K2	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1151-ND	9.57	7.66	6.07	7103K2ZQE
	Mom-Off-Mom	K2	K2	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1152-ND	9.69	7.76	6.14	7105K2ZQE
SPDT	On-On	L1	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1147-ND	5.28	4.23	3.35	7101L1YZQE
	On-Off-On	L1	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1148-ND	5.82	4.66	3.69	7103L1YZQE
	On-On	L41(wht)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1219-ND	7.53	6.03	4.77	7101L41YZQE1
	On-On	L41(blk)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1220-ND	7.53	6.03	4.77	7101L41YZQE2
	On-On	L41(red)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1221-ND	7.53	6.03	4.77	7101L41YZQE3
SPDT	On-On	K12	K12	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1212-ND	9.03	7.23	5.72	7101K12ZQE
	On-Off-On	K12	K12	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1155-ND	9.57	7.66	6.07	7103K12ZQE
	Mom-Off-Mom	K12	K12	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1156-ND	9.69	7.76	6.14	7105K12ZQE
	On-On	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1164-ND	8.19	6.56	5.19	7101TZQE
	On-Off-On	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1165-ND	8.73	6.99	5.53	7103TZQE
SPDT	On-On	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1159-ND	6.84	5.48	4.34	7101SCWZQE
	On-Off-On	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1160-ND	7.38	5.91	4.68	7103SCWZQE
	Mom-Off-Mom	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1161-ND	7.50	6.00	4.75	7105SCWZQE
DPDT	On-On	S	Y	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1010-ND	8.01	6.41	5.08	7201SYCBE
	On-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1011-ND	8.01	6.41	5.08	7201SYCQE
	On-On	S	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1034-ND	7.77	6.22	4.93	7201SYZBE
	On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1035-ND	7.77	6.22	4.93	7201SYZQE
	On-On	S	Y	W	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1380-ND	8.67	6.94	5.50	7201SYWBE
	On-On	S	Y	W	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1382-ND	8.67	6.94	5.50	7201SYWQE
	On-Off-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1012-ND	8.94	7.16	5.67	7203SYCQE
DPDT	On-Off-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1036-ND	8.70	6.96	5.51	7203SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1129-ND	8.70	6.96	5.51	7205SYZQE
	On-Off-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1130-ND	8.94	7.16	5.67	7207SYZQE
	On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1131-ND	8.94	7.16	5.67	7208SYZQE
	On-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1089-ND	8.88	7.11	5.63	T201SHZQE
DPDT	On-On	S	H	C	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1182-ND	8.46	6.77	5.36	T201SHCQE
	On-Off-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1090-ND	10.05	8.04	6.37	T203SHZQE
	On-On	M	D	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1031-ND	7.77	6.22	4.93	7201MDZQE
	On-On	M	D9	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1170-ND	9.42	7.54	5.97	7201MD9V3BE
	On-Off-On	M	D9	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1171-ND	10.35	8.28	6.56	7203MD9V3BE
DPDT	On-On	P3	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1032-ND	9.72	7.78	6.16	7201P3YZBE
	On-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1033-ND	9.72	7.78	6.16	7201P3YZQE
	Mom-Off-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1144-ND	10.65	8.52	6.75	7205P3YZQE
	On-Off-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1145-ND	10.89	8.72	6.90	7207P3YZQE
	On-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1146-ND	10.89	8.72	6.90	7208P3YZQE
DPDT	On-On	K2	K2	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1217-ND	11.76	9.41	7.45	7201K2CBE
	On-On	K2	K2	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1127-ND	11.76	9.41	7.45	7201K2CQE
	On-On	K2	K2	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1128-ND	11.52	9.22	7.30	7201K2ZQE
	On-Off-On	K2	K2	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1153-ND	12.45	9.96	7.89	7203K2ZQE
	On-On	L1	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1149-ND	7.77	6.22	4.93	7201L1YZQE
DPDT	On-Off-On	L1	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1150-ND	8.70	6.96	5.51	7203L1YZQE
	On-Off-On	K12	K12	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1157-ND	12.45	9.96	7.89	7203K12ZQE
	On-On	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1166-ND	10.68	8.55	6.77	7201TZQE

† UL Approved   Note: All threaded bushings include mounting hardware.

(Continued)

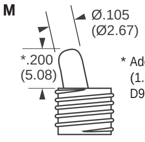
Actuator Options

S



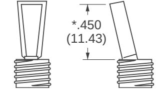
* Add .070 (1.78) for D, D9 bushings.
* Subtract .020 (.51) for H3 bushings.

M



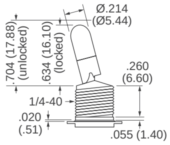
* Add .070 (1.78) for D, D9 bushings.

P3 with Antirotation

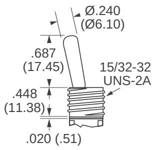


* Add .070 (1.78) for D, D9 bushings.

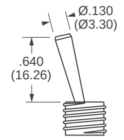
K2 Locking Lever



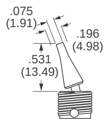
T



L1

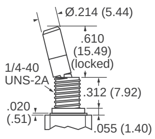


L41

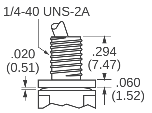


Plastic lever
handle
antirotation

K12 Locking Lever



CW Splashproof

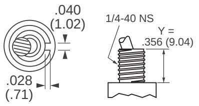


Internal actuator seal and external bushing seal washer standard.

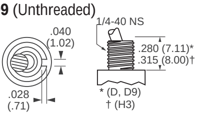
Toggle Switches *(Cont.)*

Bushing Options

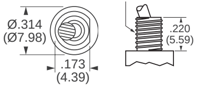
Y



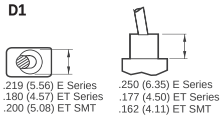
D, H3 (Threaded)
D9 (Unthreaded)



H (10-48 UNS)
H9 (Unthreaded)

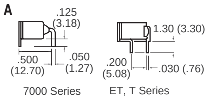


D1

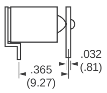


Termination Options

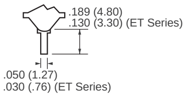
A



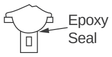
R



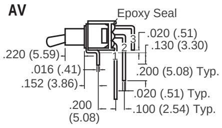
C



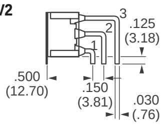
Z
Solder
Eyelet



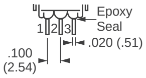
AV



AV2

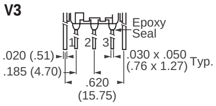


V3

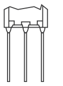


*** ET Series Only**

V3



W, W6



Wire -Wrap Terminal

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			ITT Industries Part No.
		Actuator	Bushing	Termi-nation				1	25	100	
DPDT	On-Off-On	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1167-ND	11.61	9.29	7.36	7203TZQE
	On-On	S	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1162-ND	9.33	7.47	5.91	7201SCWZQE
	On-Off-On	S	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1163-ND	10.26	8.21	6.50	7203SCWZQE
3PDT	On-On	S	Y	C	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1013-ND	13.59	10.88	8.61	7301SYCQE
	On-On	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1037-ND	13.23	10.59	8.38	7301SYZQE
	On-Off-On	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1135-ND	13.98	11.19	8.86	7303SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1136-ND	17.34	13.88	10.99	7305SYZQE
	On-Off-On	K2	K2	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1154-ND	17.73	14.19	11.23	7303K2ZQE
	On-Off-On	K12	K12	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1158-ND	17.73	14.19	11.23	7303K12ZQE
4PDT	On-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1038-ND	18.30	14.64	11.59	7401SYZQE
	On-Off-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1137-ND	19.38	15.51	12.28	7403SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1138-ND	21.03	16.83	13.32	7405SYZQE
3-Way Toggle Switches											
DPDT	On-On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1132-ND	9.39	7.52	5.95	7211SYZQE
	On-On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1133-ND	10.08	8.07	6.39	7213SYZQE
	Mom-On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1134-ND	10.08	8.07	6.39	7215SYZQE
4PDT	On-On-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1139-ND	22.23	17.79	14.08	7411SYZQE
	On-On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1140-ND	22.23	17.79	14.08	7413SYZQE
	Mom-On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1141-ND	22.23	17.79	14.08	7415SYZQE
Fig. 2 — Right Angle											
SPDT	On-On	S	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1049-ND	6.00	4.80	3.80	7101SD9ABE
	On-Off-On	S	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1051-ND	6.54	5.24	4.15	7103SD9ABE
	On-On	M	D	R	B	.365 x .500 x .284 (9.27 x 12.70 x 7.21)	CKN1044-ND	10.74	8.60	6.81	7101MDRBE
	On-On	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1045-ND	6.00	4.80	3.80	7101MD9ABE
	On-On	M	D9	A	G	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1046-ND	6.39	5.12	4.05	7101MD9AGE
	On-On	M	D9	A	Q	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1047-ND	6.00	4.80	3.80	7101MD9AQE
SPDT	On-Off-On	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1050-ND	6.54	5.24	4.15	7103MD9ABE
	Mom-Off-Mom	M	D9	A	B	.365 x .500 x .284 (9.27 x 12.70 x 7.21)	CKN1172-ND	6.66	5.33	4.22	7105MD9ABE
	On-Off-Mom	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1053-ND	6.66	5.33	4.22	7107MD9ABE
	On-On	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1067-ND	6.09	4.88	3.86	T101MH9ABE
	On-Off-On	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1068-ND	7.20	5.76	4.56	T103MH9ABE
	Mom-Off-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1386-ND	7.20	5.76	4.56	T105MH9ABE
	On-Off-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1387-ND	7.44	5.96	4.72	T107MH9ABE
	On-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1388-ND	7.44	5.96	4.72	T108MH9ABE
	On-On	P3	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1048-ND	7.95	6.36	5.04	7101P3D9ABE
DPDT	On-On	M	D9	A	B	.500 x .500 x .450 (12.70 x 12.70 x 11.43)	CKN1055-ND	9.09	7.28	5.76	7201MD9ABE
	On-On	M	D9	A	Q	.500 x .500 x .450 (12.70 x 12.70 x 11.43)	CKN1056-ND	9.09	7.28	5.76	7201MD9AQE
	On-On	M	H9	A	B	.320 x .360 x .352 (8.13 x 9.14 x 8.94)	CKN1069-ND	9.54	7.64	6.05	T201MH9ABE
3PDT	On-On	S	D9	A	B	.500 x .500 x .500 (12.70 x 12.70 x 12.70)	CKN1383-ND	15.21	12.17	9.64	7301MD9ABE
Fig. 3 — Vertical Right Angle											
SPDT	On-On	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1059-ND	6.33	5.07	4.01	7101MD9AV2BE
	On-Off-On	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1173-ND	6.87	5.50	4.36	7103MD9AV2BE
	On-Off-Mom	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1174-ND	6.99	5.60	4.43	7107MD9AV2BE
	On-On	M	H9	AV	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1070-ND	6.42	5.14	4.07	T101MH9AVBE
DPDT	On-On	M	D9	AV2	B	.500 x .650 x .565 (12.70 x 16.51 x 14.35)	CKN1384-ND	9.72	7.78	6.16	7201MD9AV2BE
Optional Hardware and Accessories											
Dress Nut 10-48, .070" (1.78mm) high, for Series T and TP, nickel plated							CKN1183-ND	.63	.51	.40	465701201
Dress Nut 1/4 x 40, .325" (8.26mm) high, for Series 7000, 8020, 8060, 8500, E, TP and E010							CKN1184-ND	.45	.36	.29	702501201
Dress Nut 1/4 x 40, .118" (3.00mm) high, for Series 7000, 8020, 8060, 8500, E, TP and E010							CKN1201-ND	.30	.24	.19	780701201
Dress Nut 15/32-32, .120" (3.05mm) high, for Series 7000 and 8500, nickel plated							CKN1202-ND	1.20	.96	.76	895101201
Hex Nut 1/4 x 40, for Series 7000, 8020, 8060, 8500, and T, nickel plated							CKN1185-ND	.27	.22	.18	700201201
Vinyl Toggle Cap, White, .383" (9.73mm) long, for color coding option "S" actuators, Series 7000							CKN1203-ND	.78	.63	.50	896801000
Vinyl Toggle Cap, Black, .383" (9.73mm) long, for color coding option "S" actuators, Series 7000							CKN1204-ND	.78	.63	.50	896802000
Vinyl Toggle Cap, Red, .383" (9.73mm) long, for color coding option "S" actuators, Series 7000							CKN1205-ND	.78	.63	.50	896803000

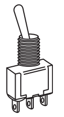
Fig.	Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			ITT Industries Part No.
			Actuator	Bushing	Termi-nation				1	25	100	
Process Sealed Toggle Switches (withstands soldering and cleaning processes)												
1	SPDT	On-On	S	D1	C	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1074-ND	5.52	4.42	3.50	E101SD1CBE
		On-Off-On	S	D1	C	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1075-ND	6.63	5.31	4.20	E103SD1CBE
		Mom-Off-Mom	S	D1	C	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1076-ND	6.63	5.31	4.20	E105SD1CBE
		On-On	S	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1071-ND†	6.06	4.85	3.84	ET01SD1CBE
		On-Off-On	S	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1080-ND†	6.84	5.48	4.34	ET03SD1CBE
		On-Mom	S	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1081-ND†	6.84	5.48	4.34	ET08SD1CBE
		On-On	M	D1	V3	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1072-ND†	6.63	5.31	4.20	ET01MD1V3BE
1	DPDT	On-On	S	D1	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1077-ND	8.46	6.77	5.36	E201SD1CBE
		On-On	S	D1	C	B	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1082-ND†	9.06	7.25	5.74	ET21SD1CBE
		On-Off-On	S	D1	C	B	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1083-ND†	10.23	8.19	6.48	ET23SD1CBE
		On-On	M	D1	A	B	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1086-ND†	10.14	8.12	6.43	ET21MD1ABE
		On-Off-On	M	D1	A	B	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1177-ND	11.31	9.05	7.17	ET23MD1ABE
2	SPDT	On-On	S	D1	A	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1061-ND†	6.09	4.88	3.86	E101SD1ABE
		On-On	M	D1	A	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1060-ND†	6.09	4.88	3.86	E101MD1ABE
		Mom-Off-Mom	M	D1	A	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1062-ND†	7.20	5.76	4.56	E105MD1ABE
		On-On	M	D1	A	B	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1073-ND†	6.63	5.31	4.20	ET01MD1ABE
		On-Off-On	M	D1	A	B	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1084-ND†	7.41	5.93	4.70	ET03MD1ABE
		On-Mom	M	D1	A	B	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1085-ND†	7.41	5.93	4.70	ET08MD1ABE
3	SPDT	On-On	M	D1	AV2	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1065-ND†	6.42	5.14	4.07	E101MD1AV2BE
		On-Off-On	M	D1	AV2	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1078-ND	7.83	6.27	4.96	E103MD1AV2BE
		Mom-Off-Mom	M	D1	AV2	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1079-ND	7.83	6.27	4.96	E105MD1AV2BE
		On-On	M	D1	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1385-ND	7.17	5.74	4.55	ET01MD1AVBE
		On-Off-Mom	M	D1	AV2	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1178-ND	7.83	6.27	4.96	E107MD1AV2BE
3	DPDT	On-On	M	D1	AV2	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1179-ND	10.47	8.38	6.64	E201MD1AV2BE
		On-Off-On	M	D1	AV2	B	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1180-ND	11.64	9.32	7.38	E203MD1AV2BE

Fig.	Circuit	Switching Function	Options (see diagrams)		Cont. Mat'l.	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing	ITT Industries Part No.
			Actuator	Bushing				1	25	100			
Surface Mount (withstands soldering and cleaning processes)													
4	SPDT	On-On	M	D1	B	.462 x .320 x .200 (11.73 x 8.13 x 5.08)	CKN1093CT-ND	8.22	7.09	5.70	CKN1093TR-ND	2732.40/600	ET01MD1SAKE(T&R)
	SPDT	On-Off-On	M	D1	B	.462 x .320 x .200 (11.73 x 8.13 x 5.08)	CKN1094CT-ND	9.07	7.82	6.28	CKN1094TR-ND	3013.20/600	ET03MD1SAKE(T&R)
	SPDT	Mom-Off-Mom	M	D1	B	.462 x .320 x .200 (11.73 x 8.13 x 5.08)	CKN1095CT-ND	9.07	7.82	6.28	CKN1095TR-ND	3013.20/600	ET05MD1SAKE(T&R)
5	SPDT	On-On	M	None	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN1096CT-ND	7.25	6.25	5.02	CKN1096TR-ND	2408.40/600	GT11MSAKETR
	SPST	Off-On	M	None	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN1097CT-ND	7.70	6.64	5.34	CKN1097TR-ND	2559.60/600	GT12MSAKETR
	SPDT	On-Off-On	M	None	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN1098CT-ND	8.29	7.14	5.74	CKN1098TR-ND	2754.00/600	GT13MSAKETR
6	SPDT	On-On	M	None	B	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN1099CT-ND	6.79	5.86	4.71	CKN1099TR-ND	836.00/200	GT11MSCKETR
	SPST	Off-On	M	None	B	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN1100CT-ND	7.35	6.33	5.09	CKN1100TR-ND	904.00/200	GT12MSCKETR
	SPDT	On-Off-On	M	None	B	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN1101CT-ND	7.87	6.78	5.45	CKN1101TR-ND	968.00/200	GT13MSCKETR
	DPDT	On-On	M	None	B	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN1102CT-ND	9.07	7.82	6.28	CKN1102TR-ND	1116.00/200	GT21MSCKETR

† UL Approved Note: All threaded bushings include mounting hardware.

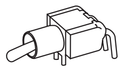
Toggle Switches

Fig. 1



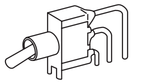
Vertical

Fig. 2



Horizontal Right Angle

Fig. 3



Vertical Right Angle

Specifications:
Contact Resistance: 10 milliohms max., initial at 2-4VDC, 100mA for silver and gold plated contacts **Insulation Resistance:** 1,000 megaohms min. **Dielectric Strength:** 1,000V RMS at sea level **Operating Temperature:** -30°C to -85°C

Contact Material:

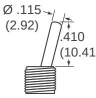
Q **(Silver): Fixed terminal and moving contact:** Silver plated over copper alloy. **Contact Rating:** 5A at 28VAC or VDC; 2A at 250VAC

R **(Gold): Fixed terminal and moving contact:** Copper alloy with gold plate over nickel plate. **Contact Rating:** 0.4VA max. at 20VAC or DC max.

All switches come complete with mounting hardware

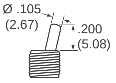
Actuators

T1



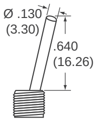
Standard

T2



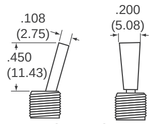
Mini

T4



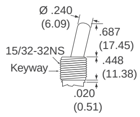
Extended Bat

T6



Flattened

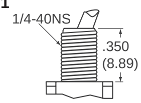
T8



Large Bat

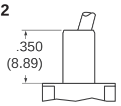
Bushings

B1



Threaded

B2



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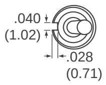
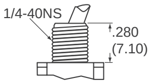
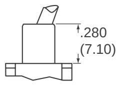


B3



Threaded

B4



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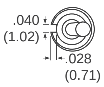
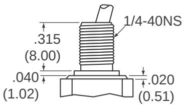
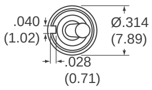


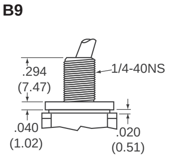
B6

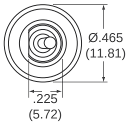




Threaded High Torque

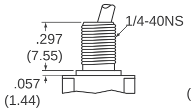
B9





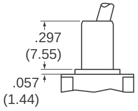
Splashproof

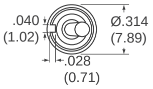
B11



Threaded

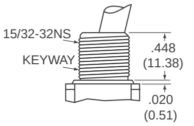
B12

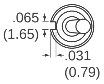




Unthreaded

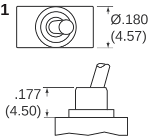
B13





Large threaded

A1



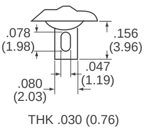
Unthreaded

Fig.	Circuit	Switching Function	Options (see diagrams) Actuator	Bushing	Termination	Contact Material	Dim. Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
						100 Series — Miniature Toggle Switches (Metal Bushing)						
1	SPDT	On-On	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2350-ND	3.26	2.94	2.51	100SP1T1B1M1QE
	SPDT	On-On	T1	B1	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2351-ND	3.55	3.20	2.73	100SP1T1B1M1RE
	SPDT	On-On	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2352-ND	3.26	2.94	2.51	100SP1T1B1M2QE
	SPDT	On-On	T1	B1	M2	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2353-ND	3.55	3.20	2.73	100SP1T1B1M2RE
	SPDT	On-On	T1	B1	M5	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2354-ND	4.24	3.82	3.26	100SP1T1B1M51RE
	SPDT	On-On	T1	B4	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2355-ND	3.26	2.94	2.51	100SP1T1B4M2QE
	SPDT	On-On	T1	B6	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2357-ND	4.46	4.02	3.42	100SP1T1B6M1QE
	SPDT	On-On	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2358-ND	3.90	3.51	2.99	100SP1T1B9M1QE
	SPDT	On-On	T2	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2359-ND	3.26	2.94	2.51	100SP1T2B1M1QE
	SPDT	On-On	T2	B3	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2360-ND	3.26	2.94	2.51	100SP1T2B3M1QE
	SPDT	On-On	T2	B3	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2361-ND	3.26	2.94	2.51	100SP1T2B3M2QE
	SPDT	On-On	T4	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2367-ND	3.43	3.09	2.63	100SP1T4B1M1QE
	SPDT	On-On	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2368-ND	4.46	4.02	3.42	100SP1T6B11M1QE
	SPDT	On-On	T6	B11	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2369-ND	4.74	4.27	3.64	100SP1T6B11M1RE
	SPDT	On-On	T6	B11	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2370-ND	4.46	4.02	3.42	100SP1T6B11M2QE
	SPDT	On-On	T8	B13	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2372-ND	4.85	4.37	3.73	100SP1T8B13M1QE
	SPDT	On-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2373-ND	3.51	3.16	2.70	100SP2T1B1M1QE
	SPDT	On-Mom	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2374-ND	4.70	4.24	3.61	100SP2T6B11M1QE
	SPDT	On-Off-On	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2375-ND	3.67	3.31	2.82	100SP3T1B1M1QE
	SPDT	On-Off-On	T1	B1	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2376-ND	3.96	3.57	3.04	100SP3T1B1M1RE
	SPDT	On-Off-On	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2377-ND	3.67	3.31	2.82	100SP3T1B1M2QE
	SPDT	On-Off-On	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2380-ND	4.31	3.88	3.31	100SP3T1B9M1QE
	SPDT	On-Off-On	T4	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2385-ND	3.83	3.46	2.94	100SP3T4B1M1QE
	SPDT	On-Off-On	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2386-ND	4.87	4.38	3.74	100SP3T6B11M1QE
	SPDT	On-Off-On	T8	B13	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2387-ND	5.26	4.74	4.04	100SP3T8B13M1QE
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2388-ND	4.16	3.75	3.20	100SP4T1B1M1QE
	SPDT	Mom-Off-Mom	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2389-ND	4.16	3.75	3.20	100SP4T1B1M2QE
	SPDT	Mom-Off-Mom	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2390-ND	4.79	4.32	3.68	100SP4T1B9M1QE
	SPDT	Mom-Off-Mom	T6	B11	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2392-ND	5.36	4.82	4.11	100SP4T6B11M2QE
	SPDT	On-Off-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2393-ND	4.41	3.97	3.38	100SP5T1B1M1QE
	SPDT	On-Off-Mom	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2394-ND	4.41	3.97	3.38	100SP5T1B1M2QE
	SPDT	On-Off-Mom	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2397-ND	5.60	5.05	4.30	100SP5T6B11M1QE
	DPDT	On-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2398-ND	4.37	3.93	3.35	100DP1T1B1M1QE
	DPDT	On-On	T1	B1	M1	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2399-ND	4.82	4.34	3.70	100DP1T1B1M1RE
	DPDT	On-On	T1	B1	M2	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2400-ND	4.37	3.93	3.35	100DP1T1B1M2QE
	DPDT	On-On	T1	B1	M2	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2401-ND	4.82	4.34	3.70	100DP1T1B1M2RE
	DPDT	On-On	T1	B9	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2402-ND	5.00	4.50	3.84	100DP1T1B9M1QE
	DPDT	On-On	T2	B3	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2403-ND	4.37	3.93	3.35	100DP1T2B3M1QE
	DPDT	On-On	T4	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2407-ND	4.53	4.08	3.48	100DP1T4B1M1QE
	DPDT	On-On	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2408-ND	5.56	5.01	4.27	100DP1T6B11M1QE
	DPDT	On-On	T6	B11	M1	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2409-ND	6.07	5.47	4.66	100DP1T6B11M1RE
	DPDT	On-On	T8	B13	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2410-ND	5.96	5.37	4.57	100DP1T8B13M1QE
	DPDT	On-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2411-ND	4.61	4.15	3.54	100DP2T1B1M1QE
	DPDT	On-Mom	T6	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2412-ND	5.81	5.23	4.46	100DP2T6B11M1QE
	DPDT	On-Off-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2413-ND	5.10	4.59	3.91	100DP3T1B1M1QE
	DPDT	On-Off-On	T1	B1	M2	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2414-ND	5.10	4.59	3.91	100DP3T1B1M2QE
	DPDT	On-Off-On	T1	B9	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2415-ND	5.73	5.16	4.40	100DP3T1B9M1QE
	DPDT	On-Off-On	T4	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2417-ND	5.26	4.74	4.04	100DP3T4B1M1QE
	DPDT	On-Off-On	T8	B13	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2418-ND	6.69	6.03	5.13	100DP3T8B13M1QE
	DPDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2419-ND	5.43	4.89	4.17	100DP4T1B1M1QE
	DPDT	Mom-Off-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2420-ND	6.62	5.96	5.08	100DP4T6B11M1QE
	DPDT	On-Off-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2421-ND	5.59	5.03	4.29	100DP5T1B1M1QE
	DPDT	On-Off-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2422-ND	6.78	6.11	5.21	100DP5T6B11M1QE
	DPDT	On-On-On	T6	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2423-ND	6.57	5.92	5.04	100DP6T1B1M1QE
	3PDT	On-On	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2424-ND	8.97	8.07	6.88	1003P1T1B1M1QE
	3PDT	On-On	T1	B1	M2	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2425-ND	8.97	8.07	6.88	1003P1T1B1M2QE
	3PDT	On-Off-On	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2426-ND	9.54	8.59	7.32	1003P3T1B1M1QE
	3PDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2427-ND	10.43	9.40	8.00	1003P4T1B1M1QE
	4PDT	On-On	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 16.51 x 12.06)	EG2428-ND	12.72	11.45	9.76	1004P1T1B1M1QE

(Continued)

Termination Options

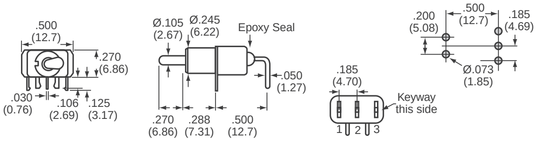
M1



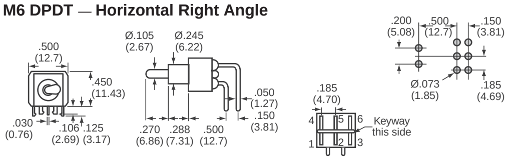
THK .030 (0.76)

Eyelet Terminal

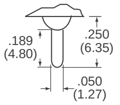
M6 SPDT — Horizontal Right Angle



M6 DPDT — Horizontal Right Angle



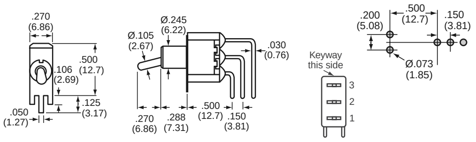
M2



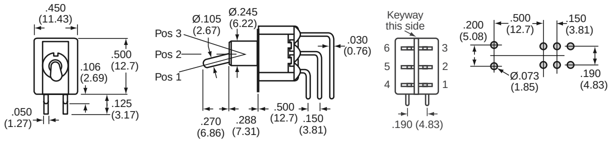
THK .030 (0.76)

PC Mount

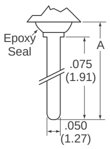
M7 SPDT — Vertical Right Angle



M7 DPDT — Vertical Right Angle

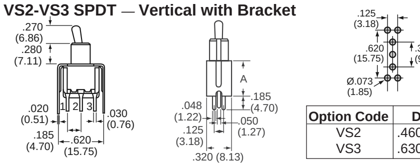


M5



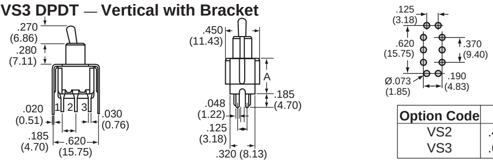
Wirewrap Terminal

VS2-VS3 SPDT — Vertical with Bracket



Option Code	Dim. A
VS2	.460 (11.68)
VS3	.630 (16.00)

VS2-VS3 DPDT — Vertical with Bracket



Option Code	Dim. A
VS2	.460 (11.68)
VS3	.630 (16.00)

Fig.	Circuit	Switching Function	Options (see diagrams)			Contact Material	Dim. Inch (mm) L x W x H	Digi-Key Part No.	Price Each			E-Switch Part No.
			Actuator	Bushing	Termination				1	10	100	
1	4PDT	On-Off-On	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2429-ND	13.62	12.26	10.44	1004P3T1B1M1QE
	4PDT	Mon-Off-Mom	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2430-ND	14.43	12.99	11.07	1004P4T1B1M1QE
	4PDT	On-On-Mom	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2431-ND	14.43	12.99	11.07	1004P6T1B1M1QE
	DPDT	On-On	T2	B4	VS2	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2406-ND	6.04	5.44	4.63	100DP1T2B4VS2RE
	DPDT	On-Off-On	T2	B4	VS2	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2416-ND	6.77	6.10	5.20	100DP3T2B4VS2RE
	SPDT	On-On	T2	B4	VS2	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2365-ND	4.49	4.04	3.45	100SP1T2B4VS2QE
	SPDT	On-On	T2	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2366-ND	4.77	4.30	3.66	100SP1T2B4VS2RE
	SPDT	On-Off-On	T2	B4	VS2	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2383-ND	4.90	4.41	3.76	100SP3T2B4VS2QE
	SPDT	On-Off-On	T2	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2384-ND	5.18	4.67	3.98	100SP3T2B4VS2RE
	SPDT	On-Off-On	T1	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2379-ND	5.18	4.67	3.98	100SP3T1B4VS2RE
2	SPDT	Mon-Off-Mom	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2391-ND	5.63	5.07	4.32	100SP4T2B4M6RE
	SPDT	On-Off-Mom	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2395-ND	5.87	5.29	4.51	100SP5T2B4M6RE
2	DPDT	On-On	T2	B4	M6	Q	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2404-ND	5.63	5.07	4.32	100DP1T2B4M6QE
	DPDT	On-On	T2	B4	M6	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2405-ND	6.08	5.47	4.66	100DP1T2B4M6RE
	SPDT	On-On	T1	B4	M6	R	.500 x ˇ.500 x .450 (12.7 x 12.7 x 11.43)	EG2356-ND	4.73	4.27	3.63	100SP1T1B4M6RE
	SPDT	On-On	T2	B4	M6	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2362-ND	4.45	4.01	3.41	100SP1T2B4M6QE
	SPDT	On-On	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2363-ND	4.73	4.27	3.63	100SP1T2B4M6RE
	SPDT	On-On	T6	B12	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2371-ND	5.93	5.34	4.55	100SP1T6B12M6RE
	SPDT	On-Off-On	T1	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2378-ND	5.14	4.63	3.95	100SP3T1B4M6RE
	SPDT	On-Off-On	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2381-ND	5.14	4.63	3.95	100SP3T2B4M6RE
3	SPDT	On-On	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2364-ND	5.07	4.57	3.89	100SP1T2B4M7RE
	SPDT	On-Off-On	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2382-ND	5.48	4.93	4.20	100SP3T2B4M7RE
	SPDT	On-Off-Mom	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2396-ND	6.21	5.60	4.77	100SP5T2B4M7RE
100A Series — Process-Sealed Miniature Toggle Switches (Plastic Bushing)												
1	SPDT	On-On	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2432-ND	4.37	3.93	3.35	100AWSP1T1B4M2RE
	SPDT	On-On	T2	B4	VS2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2436-ND	5.64	5.08	4.33	100AWSP1T2B4VS2RE
	SPDT	On-Off-On	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2437-ND	4.77	4.30	3.66	100AWSP3T1B4M2RE
	SPDT	Mon-Off-Mom	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2439-ND	5.35	4.82	4.10	100AWSP4T1B4M2RE
	DPDT	On-On	T1	B4	M2	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2443-ND	5.06	4.56	3.88	100AWDP1T1B4M2RE
2	SPDT	Mon-Off-Mom	T2	B4	M6	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2440-ND	6.81	6.14	5.23	100AWSP4T2B4M6RE
	SPDT	On-On	T1	B4	M6	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2433-ND	5.84	5.26	4.48	100AWSP1T1B4M6RE
	SPDT	On-On	T2	B4	M6	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2434-ND	5.84	5.26	4.48	100AWSP1T2B4M6RE
3	SPDT	On-On	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2435-ND	6.21	5.60	4.77	100AWSP1T2B4M7RE
	SPDT	Mon-Off-Mom	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2441-ND	7.19	6.48	5.52	100AWSP4T2B4M7RE
	SPDT	On-Off-Mom	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2442-ND	7.35	6.62	5.64	100AWSP5T2B4M7RE
	SPDT	On-Off-On	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2438-ND	6.62	5.96	5.08	100AWSP3T2B4M7RE
	DPDT	On-On	T2	B4	M7	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2444-ND	7.04	6.34	5.40	100AWDP1T2B4M7RE
	DPDT	On-Off-On	T2	B4	M7	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2445-ND	7.37	6.63	5.65	100AWDP3T2B4M7RE
Caps for 100 Series												
Vinyl Toggle Cap, White, for T1 Actuators								EG2470-ND	.14	.13	.12	T100-1 WHTTOGGLECAP
Vinyl Toggle Cap, Black, for T1 Actuators								EG2471-ND	.14	.13	.12	T100-2 BLKTOGGLECAP

Fig.	Circuit	Switching Function	Options (see diagrams)			Contact Material	Dim. Inch (mm) L x W x H	Digi-Key Part No.	Price Each			E-Switch Part No.
			Actuator	Bushing	Termination				1	10	100	
200 Series — Subminiature Toggle Switches												
1	SPDT	On-On	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2446-ND	3.31	2.98	2.54	200MSP1T1B1M1QE
	SPDT	On-On	T1	B1	M2	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2447-ND	3.31	2.98	2.54	200MSP1T1B1M2QE
	SPDT	On-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2450-ND	4.45	4.01	3.41	200MSP3T1B1M1QE
	SPDT	On-Mom	T1	B1	M2	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2451-ND	4.45	4.01	3.41	200MSP3T1B1M2QE
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2453-ND	4.65	4.19	3.57	200MSP4T1B1M1QE
	SPDT	On-Off-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2454-ND	4.49	4.04	3.45	200MSP5T1B1M1QE
	DPDT	On-On	T1	B1	M1	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2455-ND	4.65	4.19	3.57	200MDP1T1B1M1QE
	DPDT	On-On	T1	B1	M2	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2456-ND	4.65	4.19	3.57	200MDP1T1B1M2QE
	DPDT	On-Mom	T1	B1	M1	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2458-ND	5.47	4.92	4.20	200MDP3T1B1M1QE
2	SPDT	On-Mom	T2	B2	M6	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2452-ND	6.04	5.44	4.63	200MSP3T2B2M6RE
	SPDT	On-On	T2	B2	M6	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2448-ND	4.79	4.31	3.67	200MSP1T2B2M6RE
	DPDT	On-On	T2	B2	M6	R	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2457-ND	6.38	5.75	4.90	200MDP1T2B2M6RE
3	SPDT	On-On	T2	B2	M7	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2449-ND	5.28	4.76	4.06	200MSP1T2B2M7RE
200A Series — Process-Sealed Subminiature Toggle Switches												
1	SPDT	On-On	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2459-ND	4.16	3.75	3.20	200AWMSP1T1A1M2RE
	SPDT	On-Mom	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2461-ND	5.30	4.78	4.07	200AWMSP2T1A1M2RE
	SPDT	On-Off-On	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2463-ND	4.33	3.90	3.32	200AWMSP3T1A1M2RE
	DPDT	On-On	T1	A1	M2	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2465-ND	6.64	5.98	5.09	200AWMDP1T1A1M2RE
	DPDT	On-Off-On	T1	A1	M2	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2467-ND	7.75	6.98	5.95	200AWMDP3T1A1M2RE
2	SPDT	On-On	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2460-ND	5.23	4.71	4.02	200AWMSP1T2A1M6RE
	SPDT	On-Mom	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2462-ND	6.78	6.11	5.21	200AWMSP2T2A1M6RE
	SPDT	On-Off-On	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2464-ND	5.81	5.23	4.46	200AWMSP3T2A1M6RE
	SPDT	On-On	T2	A1	M6	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2469-ND	7.18	6.47	5.51	200BWMSP1T2A1SM6RE
	DPDT	On-On	T2	A1	M6	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2466-ND	8.20	7.39	6.29	200AWMDP1T2A1M6RE
	DPDT	On-Off-On	T2	A1	M6	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2468-ND	9.31	8.39	7.14	200AWMDP3T2A1M6RE

NKK® SWITCHES

Miniature Toggle Switches

M Series: Over 350,000 different configurations possible, with the most popular listed here. Epoxy sealed terminals, high torque bushings, antijamming levers. Available as PCB mount or solder lug terminal for ease of wiring. **Electrical Capacity:** 6A @ 125V AC or 30VDC. **Dielectric strength:** 1,500V AC min. **Mechanical Life:** 100,000 operations min., 50,000 operations min. for flat and locking lever. **Electrical Life:** 25,000 operations min. **Operating Temperature:** -30°C to + 85°C. **Angle of Throw:** 25° **Standard Hardware:** 2 hex nuts, 1 locking ring, 1 lockwasher

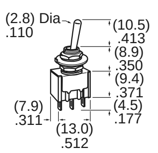
Dim. in (mm) Inch

Fig.	Circuit	Switching Function	Options (see diagrams) Act-uator	Bush-ing	Contact Material*	Terminal Option	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Bat Lever, Threaded Bushing, Solder Lug –6A											
1	SPDT	On-On	S	S1	W	01	360-1057-ND	4.20	3.36	2.66	M2012SS1W01
	SPDT	On-Off-On	S	S1	W	01	360-1058-ND	4.92	3.94	3.12	M2013SS1W01
	SPDT	On-Mom	S	S1	W	01	360-1059-ND	5.52	4.42	3.50	M2015SS1W01
	SPDT	Mom-Off-Mom	S	S1	W	01	360-1060-ND	5.64	4.52	3.58	M2018SS1W01
	SPDT	On-Off-Mom	S	S1	W	01	360-1061-ND	5.64	4.52	3.58	M2019SS1W01
	SP3T	On-On-On	S	S1	W	01	360-1062-ND†	9.00	7.20	5.70	M2024SS1W01
	SP3T	Mom-On-Mom	S	S1	W	01	360-1063-ND†	9.48	7.59	6.01	M2026SS1W01
	SP3T	On-On-Mom	S	S1	W	01	360-1064-ND†	9.48	7.59	6.01	M2027SS1W01
	DPDT	On-On	S	S1	W	01	360-1065-ND	6.30	5.04	3.99	M2022SS1W01
	DPDT	On-Off-On	S	S1	W	01	360-1066-ND	7.32	5.86	4.64	M2023SS1W01
	DPDT	On-Mom	S	S1	W	01	360-1067-ND	8.40	6.72	5.32	M2025SS1W01
	DPDT	Mom-Off-Mom	S	S1	W	01	360-1068-ND	8.76	7.01	5.55	M2028SS1W01
	DPDT	On-Off-Mom	S	S1	W	01	360-1069-ND	8.76	7.01	5.55	M2029SS1W01
	DP3T	On-On-On	S	S1	W	01	360-1070-ND††	21.00	16.80	13.30	M2044SS1W01
	DP3T	Mom-On-Mom	S	S1	W	01	360-1071-ND††	21.00	16.80	13.30	M2046SS1W01
	DP3T	On-On-Mom	S	S1	W	01	360-1072-ND††	21.00	16.80	13.30	M2047SS1W01
	3PDT	On-On	S	S1	W	01	360-1073-ND	10.50	8.40	6.65	M2032SS1W01
	3PDT	On-Off-On	S	S1	W	01	360-1074-ND	13.20	10.56	8.36	M2033SS1W01
	3PDT	Mom-Off-Mom	S	S1	W	01	360-1075-ND	16.20	12.96	10.26	M2038SS1W01
	4PDT	On-On	S	S1	W	01	360-1076-ND	14.46	11.57	9.16	M2042SS1W01
	4PDT	On-Off-On	S	S1	W	01	360-1077-ND	17.28	13.83	10.95	M2043SS1W01
Bat Lever, Threaded Bushing, PC Terminals –6A											
2	SPDT	On-On	S	S1	W	03	360-1078-ND	4.35	3.48	2.76	M2012SS1W03
	SPDT	On-Off-On	S	S1	W	03	360-1079-ND	5.07	4.06	3.22	M2013SS1W03
	SPDT	On-Mom	S	S1	W	03	360-1080-ND	5.67	4.54	3.60	M2015SS1W03
	SPDT	Mom-Off-Mom	S	S1	W	03	360-1081-ND	5.79	4.64	3.67	M2018SS1W03
	SPDT	On-Off-Mom	S	S1	W	03	360-1082-ND	5.79	4.64	3.67	M2019SS1W03
	SP3T	On-On-On	S	S1	W	03	360-1083-ND†	9.30	7.44	5.89	M2024SS1W03
	DPDT	On-On	S	S1	W	03	360-1084-ND	6.60	5.28	4.18	M2022SS1W03
	DPDT	On-Off-On	S	S1	W	03	360-1085-ND	7.62	6.10	4.83	M2023SS1W03
	3PDT	On-On	S	S1	W	03	360-1086-ND	10.92	8.74	6.92	M2032SS1W03
	4PDT	On-On	S	S1	W	03	360-1087-ND	15.03	12.03	9.52	M2042SS1W03
.45 Large Bat Lever, Large Threaded Bushing, Solder Lug –6A											
1	SPDT	On-On	B	B1	W	01	360-1029-ND	6.84	5.48	4.34	M2012BB1W01
	SPDT	On-Off-On	B	B1	W	01	360-1030-ND	7.56	6.05	4.79	M2013BB1W01
	SPDT	On-Mom	B	B1	W	01	360-1031-ND	8.16	6.53	5.17	M2015BB1W01
	SPDT	Mom-Off-Mom	B	B1	W	01	360-1032-ND	8.28	6.63	5.25	M2018BB1W01
	SPDT	On-Off-Mom	B	B1	W	01	360-1033-ND	8.28	6.63	5.25	M2019BB1W01
	DPDT	On-On	B	B1	W	01	360-1034-ND	8.94	7.16	5.67	M2022BB1W01
	DPDT	On-Off-On	B	B1	W	01	360-1035-ND	9.96	7.97	6.31	M2023BB1W01
	3PDT	On-On	B	B1	W	01	360-1036-ND	13.14	10.52	8.33	M2032BB1W01
	4PDT	On-On	B	B1	W	01	360-1037-ND	17.10	13.68	10.83	M2042BB1W01
Flat Lever, Threaded Bushing, Solder Lug –6A											
1	SPDT	On-On	E	S1	W	01	360-1043-ND	5.40	4.32	3.42	M2012ES1W01
	SPDT	On-Off-On	E	S1	W	01	360-1044-ND	6.12	4.90	3.88	M2013ES1W01
	SPDT	On-Mom	E	S1	W	01	360-1045-ND	6.72	5.38	4.26	M2015ES1W01
	SPDT	Mom-Off-Mom	E	S1	W	01	360-1046-ND	6.84	5.48	4.34	M2018ES1W01
	SPDT	On-Off-Mom	E	S1	W	01	360-1047-ND	6.84	5.48	4.34	M2019ES1W01
	SP3T	On-On-On	E	S1	W	01	360-1048-ND†	10.20	8.16	6.46	M2024ES1W01
	DPDT	On-On	E	S1	W	01	360-1049-ND	7.50	6.00	4.75	M2022ES1W01
	DPDT	On-Off-On	E	S1	W	01	360-1050-ND	8.52	6.82	5.40	M2023ES1W01
	DPDT	On-Mom	E	S1	W	01	360-1051-ND	9.60	7.68	6.08	M2025ES1W01
	DPDT	On-Off-Mom	E	S1	W	01	360-1052-ND	9.96	7.97	6.31	M2029ES1W01
	3PDT	On-On	E	S1	W	01	360-1053-ND	11.70	9.36	7.41	M2032ES1W01
	3PDT	On-Off-On	E	S1	W	01	360-1054-ND	14.40	11.52	9.12	M2033ES1W01
	4PDT	On-On	E	S1	W	01	360-1055-ND	15.66	12.53	9.92	M2042ES1W01
	4PDT	On-Off-On	E	S1	W	01	360-1056-ND	18.48	14.79	11.71	M2043ES1W01
Bat Lever, Threaded Keyway Bushing, Solder Lug –6A											
1	SPDT	On-On	S2	S1	W	01	360-1172-ND	4.20	3.36	2.66	M2012S2S1W01
	SPDT	On-On	S2	A1	W	01	360-1155-ND	4.20	3.36	2.66	M2012S2A1W01
	DPDT	On-On	S2	A1	W	01	360-1156-ND	6.30	5.04	3.99	M2022S2A1W01
Bat Lever, Threaded Keyway Bushing, Straight PC Terminal –6A											
2	SPDT	On-On	S2	A1	W	03	360-1157-ND	4.35	3.48	2.76	M2012S2A1W03
.69" Large Bat Lever, Large Threaded Bushing, Solder Lug –6A											
1	SPDT	On-On	B2	B1	W	01	360-1038-ND	7.08	5.67	4.49	M2012B2B1W01
	SPDT	On-Off-On	B2	B1	W	01	360-1039-ND	7.80	6.24	4.94	M2013B2B1W01
	SPDT	Mom-Off-Mom	B2	B1	W	01	360-1040-ND	8.52	6.82	5.40	M2018B2B1W01
	DPDT	On-On	B2	B1	W	01	360-1041-ND	9.18	7.35	5.82	M2022B2B1W01
	DPDT	On-Off-On	B2	B1	W	01	360-1042-ND	10.20	8.16	6.46	M2023B2B1W01

*W=Silver rated 6A @ 125V AC and 3A @ 250V AC †=SP3T uses a Dp Body ††=DP3T uses a 4p Body

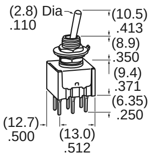
(Continued)

Fig. 1



(SPDT Shown)

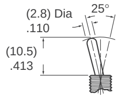
Fig. 2



(DPDT Shown)

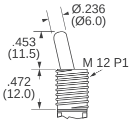
Actuators

S



(Standard)

B



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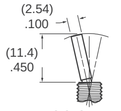
E



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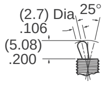
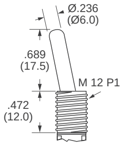
S2



(Mini)

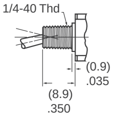
B2



(Long Large)

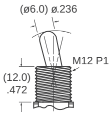
Bushings

S1



(Standard)

B1



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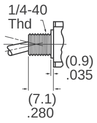
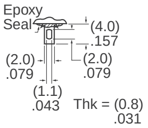
A1



(Short Bushing)

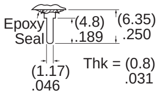
Terminals

01



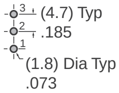
(Solder)

03

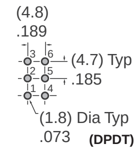


(PCB)

Footprints



(SPDT)



(DPDT)

NKK SWITCHES®

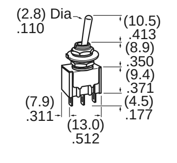
Miniature Toggle Switches *(Cont.)*

Dim. in (mm) Inch

			Options (see diagrams)								
Fig.	Circuit	Switching Function	Act-uator	Bush-ing	Contact Material*	Terminal Option	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Bat Lever, Threaded Splashproof Bushing, Solder Lug –6A											
1	SPDT	On-On	S	D3	W	01	360-1088-ND	5.40	4.32	3.42	M2012SD3W01
	SPDT	On-Off-On	S	D3	W	01	360-1089-ND	6.12	4.90	3.88	M2013SD3W01
	SPDT	On-Mom	S	D3	W	01	360-1090-ND	6.72	5.38	4.26	M2015SD3W01
	SPDT	Mom-Off-Mom	S	D3	W	01	360-1091-ND	6.84	5.48	4.34	M2018SD3W01
	SPDT	On-Off-Mom	S	D3	W	01	360-1092-ND	6.84	5.48	4.34	M2019SD3W01
	DPDT	On-On	S	D3	W	01	360-1093-ND	7.50	6.00	4.75	M2022SD3W01
	DPDT	On-Off-On	S	D3	W	01	360-1094-ND	8.52	6.82	5.40	M2023SD3W01
	DPDT	Mom-Off-Mom	S	D3	W	01	360-1095-ND	9.96	7.97	6.31	M2028SD3W01
Bat Lever, Threaded Splashproof Bushing, Solder Lug –.4VA											
1	SPDT	On-On	S	D3	G	01	360-1140-ND	6.06	4.85	3.84	M2012SD3G01
	SPDT	On-Off-On	S	D3	G	01	360-1141-ND	6.78	5.43	4.30	M2013SD3G01
	SPDT	On-Mom	S	D3	G	01	360-1142-ND	7.38	5.91	4.68	M2015SD3G01
	SPDT	Mom-Off-Mom	S	D3	G	01	360-1143-ND	7.50	6.00	4.75	M2018SD3G01
	DPDT	On-On	S	D3	G	01	360-1144-ND	8.79	7.04	5.57	M2022SD3G01
Bat Lever, Threaded Bushing, Solder Lug –.4VA											
1	SPDT	On-On	S	S1	G	01	360-1118-ND	4.86	3.89	3.08	M2012SS1G01
	SPDT	On-Off-On	S	S1	G	01	360-1119-ND	5.58	4.47	3.54	M2013SS1G01
	SPDT	On-Mom	S	S1	G	01	360-1120-ND	6.18	4.95	3.92	M2015SS1G01
	SPDT	Mom-Off-Mom	S	S1	G	01	360-1121-ND	6.30	5.04	3.99	M2018SS1G01
	SPDT	On-Off-Mom	S	S1	G	01	360-1122-ND	6.30	5.04	3.99	M2019SS1G01
	SP3T	On-On-On	S	S1	G	01	360-1123-ND†	10.29	8.24	6.52	M2024SS1G01
	SP3T	Mom-On-Mom	S	S1	G	01	360-1124-ND†	10.77	8.62	6.83	M2026SS1G01
	SP3T	On-On-Mom	S	S1	G	01	360-1125-ND†	10.77	8.62	6.83	M2027SS1G01
	DPDT	On-On	S	S1	G	01	360-1126-ND	7.59	6.08	4.81	M2022SS1G01
	DPDT	On-Off-On	S	S1	G	01	360-1127-ND	8.61	6.89	5.46	M2023SS1G01
	3PDT	On-On	S	S1	G	01	360-1128-ND	12.45	9.96	7.89	M2032SS1G01
	4PDT	On-On	S	S1	G	01	360-1129-ND	17.04	13.64	10.80	M2042SS1G01
Bat Lever, Threaded Bushing, PC Terminal –.4VA											
2	SPDT	On-On	S	S1	G	03	360-1130-ND	4.98	3.99	3.16	M2012SS1G03
	SPDT	On-Off-On	S	S1	G	03	360-1131-ND	5.70	4.56	3.61	M2013SS1G03
	SPDT	On-Mom	S	S1	G	03	360-1132-ND	6.30	5.04	3.99	M2015SS1G03
	SPDT	Mom-Off-Mom	S	S1	G	03	360-1133-ND	6.42	5.14	4.07	M2018SS1G03
	SPDT	On-Off-Mom	S	S1	G	03	360-1134-ND	6.42	5.14	4.07	M2019SS1G03
	SP3T	On-On-On	S	S1	G	03	360-1135-ND†	10.59	8.48	6.71	M2024SS1G03
	DPDT	On-On	S	S1	G	03	360-1136-ND	7.89	6.32	5.00	M2022SS1G03
	DPDT	On-Off-On	S	S1	G	03	360-1137-ND	8.91	7.13	5.65	M2023SS1G03
	3PDT	On-On	S	S1	G	03	360-1138-ND	12.87	10.30	8.16	M2032SS1G03
	4PDT	On-On	S	S1	G	03	360-1139-ND	17.64	14.12	11.18	M2042SS1G03
Locking Lever, Threaded Bushing, Solder Lug –6A											
1	SPDT	On-On	L	L1	W	01	360-1096-ND	7.29	5.84	4.62	M2012LL1W01
	SPDT	On-Off-On	L	L1	W	01	360-1097-ND	8.01	6.41	5.08	M2013LL1W01
	SPDT	On-Mom	L	L1	W	01	360-1098-ND	8.61	6.89	5.46	M2015LL1W01
	SPDT	Mom-Off-Mom	L	L1	W	01	360-1099-ND	8.73	6.99	5.53	M2018LL1W01
	SPDT	On-Off-Mom	L	L1	W	01	360-1100-ND	8.73	6.99	5.53	M2019LL1W01
	DPDT	On-On	L	L1	W	01	360-1101-ND	9.39	7.52	5.95	M2022LL1W01
	DPDT	On-Off-On	L	L1	W	01	360-1102-ND	10.41	8.33	6.60	M2023LL1W01
	3PDT	On-On	L	L1	W	01	360-1103-ND	13.59	10.88	8.61	M2032LL1W01
	3PDT	On-Off-On	L	L1	W	01	360-1104-ND	16.29	13.04	10.32	M2033LL1W01
	4PDT	On-On	L	L1	W	01	360-1105-ND	17.55	14.04	11.12	M2042LL1W01
Locking Lever, Threaded Bushing, Solder Lug –.4VA											
1	SPDT	On-On	L	L1	G	01	360-1145-ND	7.95	6.36	5.04	M2012LL1G01
	SPDT	On-Off-On	L	L1	G	01	360-1146-ND	8.67	6.94	5.50	M2013LL1G01
	SPDT	On-Mom	L	L1	G	01	360-1147-ND	9.27	7.42	5.88	M2015LL1G01
	SPDT	On-Off-Mom	L	L1	G	01	360-1148-ND	9.39	7.52	5.95	M2019LL1G01
	DPDT	On-On	L	L1	G	01	360-1149-ND	10.68	8.55	6.77	M2022LL1G01
.45" Large Bat Lever, Large Threaded Bushing, Solder Lug –.4VA											
1	SPDT	On-On	B	B1	G	01	360-1106-ND	7.50	6.00	4.75	M2012BB1G01
	SPDT	On-Off-On	B	B1	G	01	360-1107-ND	8.22	6.58	5.21	M2013BB1G01
.69" Large Bat Lever, Large Threaded Bushing, Solder Lug –.4VA											
1	SPDT	On-On	B2	B1	G	01	360-1108-ND	7.74	6.20	4.91	M2012B2B1G01
	DPDT	On-On	B2	B1	G	01	360-1109-ND	10.47	8.38	6.64	M2022B2B1G01

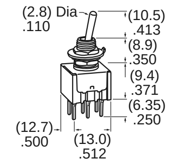
*W=Silver rated 6A @ 125V AC & 3A @ 250V AC G=Gold rated 0.4VA max. @ 28V AC/DC max. †=SP3T uses a Dp Body. *(Continued)*

Fig. 1



(SPDT Shown)

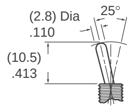
Fig. 2



(DPDT Shown)

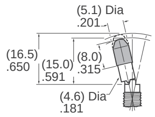
Actuators

S



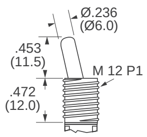
(Standard)

L



(Locking)

B



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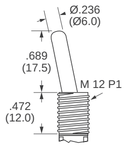
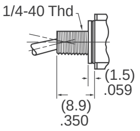
B2



(Long Large)

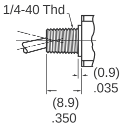
Bushings

D3



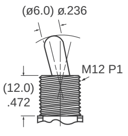
(Splashproof)

S1



(Standard)

B1



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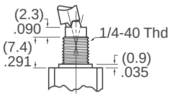
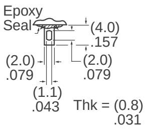
L1



(Locking)

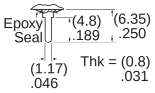
Terminals

01



(Solder)

03



(PCB)

NKK®
SWITCHES

Miniature Toggle Switches *(Cont.)*

M2T Series: Interior bushing is sealed with o-ring which surrounds the actuator. Bushing and top of the housing are one molded piece, achieving the exterior seal. Ultrasonic welding is used to seal the bushing unit to the base. Terminals are epoxy sealed for safeguarding the switch at the base

Features: Electrical Capacity: Logic Level (code G): 0.4VA maximum @ 28V AC/DC maximum. **Dielectric Strength:** 1,000V AC minimum between contacts; 1,500V AC minimum between contacts and case. **Mechanical Life:** 100,000 operations minimum. **Electrical Life:** 50,000 operations minimum for gold; 25,000 operations minimum for silver. **Operating Temp Range:** -30°C through +85°C

B Series: Sealed body construction permits switches to be subjected to time- and money-saving automated soldering techniques. Can be safely cleaned of flux without fear of compromising operating characteristics.

Features: Electrical Capacity: Logic Level: 0.4VA maximum @ 28V AC/DC maximum. **Dielectric Strength:** 500V AC minimum. **Mechanical Life:** 100,000 operations min. for On-On and On-Off-On. **Electrical Life:** 50,000 operations min. **Operating Temp Range:** -30°C through +85°C

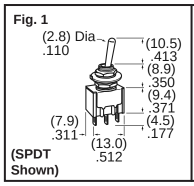
Dim. in (mm) Inch

			Options (see diagrams)					Price Each			
Fig.	**Circuit**	**Switching Function**	**Act-uator**	**Bush-ing**	**Contact Material***	**Terminal Option**	**Digi-Key Part No.**	**1**	**25**	**100**	**NKK Part No.**
Flattened Lever, Threaded Bushing, Solder Lug –.4VA											
1	SPDT	On-On	E	S1	G	01	360-1110-ND	6.06	4.85	3.84	M2012ES1G01
	SPDT	On-Off-On	E	S1	G	01	360-1111-ND	6.78	5.43	4.30	M2013ES1G01
	SP3T	On-On-On	E	S1	G	01	360-1112-ND†	11.49	9.20	7.28	M2024ES1G01
	DPDT	On-On	E	S1	G	01	360-1113-ND	8.79	7.04	5.57	M2022ES1G01
	DPDT	On-Off-On	E	S1	G	01	360-1114-ND	9.81	7.85	6.22	M2023ES1G01
	3PDT	On-On	E	S1	G	01	360-1115-ND	13.65	10.92	8.65	M2032ES1G01
	4PDT	On-On	E	S1	G	01	360-1116-ND	18.24	14.60	11.56	M2042ES1G01
	4PDT	On-Off-On	E	S1	G	01	360-1117-ND	21.06	16.85	13.34	M2043ES1G01
Flattened Bat Lever, Threaded Bushing, PC Terminal –6A											
1	SPDT	On-On	E	S1	W	03	360-1150-ND	5.55	4.44	3.52	M2012ES1W03
	SPDT	On-Off-On	E	S1	W	03	360-1151-ND	6.27	5.02	3.98	M2013ES1W03
	SPDT	Mom-Off-Mom	E	S1	W	03	360-1152-ND	6.99	5.60	4.43	M2018ES1W03
Bat Lever, Smooth Keyway Bushing, Vertical PC Terminal –.4VA											
1	SPDT	On-On	S2	A2	G	40	360-1165-ND	5.94	4.76	3.77	M2012S2A2G40
	SPDT	On-Off-On	S2	A2	G	40	360-1166-ND	6.66	5.33	4.22	M2013S2A2G40
	SPDT	On-Off-Mom	S2	A2	G	40	360-1167-ND	7.38	5.91	4.68	M2019S2A2G40
	DPDT	On-On	S2	A2	G	40	360-1168-ND	9.81	7.85	6.22	M2022S2A2G40
Bat Lever, Smooth Keyway Bushing, Straight PC Terminal											
—	SPDT	On-On	S2	A2	W	13	360-1169-ND	4.65	3.72	2.95	M2012S2A2W13
—	SPDT	On-On	S2	A2	G	13	360-1158-ND	5.31	4.25	3.37	M2012S2A2G13
Bat Lever, Smooth Keyway Bushing, Right Angle PC Terminal											
2	SPDT	On-On	S2	A2	G	30	360-1159-ND	5.64	4.52	3.58	M2012S2A2G30
	SPDT	On-Off-On	S2	A2	G	30	360-1160-ND	6.36	5.09	4.03	M2013S2A2G30
	SPDT	Mom-Off-Mom	S2	A2	G	30	360-1161-ND	7.08	5.67	4.49	M2018S2A2G30
	SPDT	On-Off-Mom	S2	A2	G	30	360-1162-ND	7.08	5.67	4.49	M2019S2A2G30
	DPDT	On-On	S2	A2	G	30	360-1163-ND	9.12	7.30	5.78	M2022S2A2G30
	3PDT	On-On	S2	A2	G	30	360-1164-ND	14.82	11.86	9.39	M2032S2A2G30
	SPDT	On-On	S2	A2	W	30	360-1170-ND	4.98	3.99	3.16	M2012S2A2W30
	DPDT	On-On	S2	A2	W	30	360-1171-ND	7.83	6.27	4.96	M2022S2A2W30
	SPDT	On-On	S	A2	G	30	360-1153-ND	5.64	4.52	3.58	M2012SA2G30
	SPDT	On-Off-On	S	A2	G	30	360-1154-ND	6.36	5.09	4.03	M2013SA2G30
Washable Mini Toggle Switches											
3	SPDT	On-On	—	—	G	30	360-1173-ND	5.82	4.66	3.69	M2T12S4A5G30
	SPDT	On-Off-On	—	—	G	30	360-1174-ND	6.36	5.09	4.03	M2T13S4A5G30
	SPDT	Mom-Off-Mom	—	—	G	30	360-1175-ND	7.02	5.62	4.45	M2T18S4A5G30
4	SPDT	On-On	—	—	G	40	360-1176-ND	6.12	4.90	3.88	M2T12S4A5G40
	SPDT	On-Off-On	—	—	G	40	360-1177-ND	6.66	5.33	4.22	M2T13S4A5G40
	SPDT	Mom-Off-Mom	—	—	G	40	360-1178-ND	7.32	5.86	4.64	M2T18S4A5G40
	DPDT	On-On	—	—	G	40	360-1179-ND	9.99	8.00	6.33	M2T22S4A5G40
5	SPDT	On-On	—	—	G	03	360-1180-ND	5.16	4.13	3.27	M2T12SA5G03
	SPDT	On-Off-On	—	—	G	03	360-1181-ND	5.70	4.56	3.61	M2T13SA5G03
	SPDT	Mom-Off-Mom	—	—	G	03	360-1182-ND	6.36	5.09	4.03	M2T18SA5G03
	DPDT	On-On	—	—	G	03	360-1183-ND	8.07	6.46	5.12	M2T22SA5G03
3	SPDT	On-On	—	—	G	30	360-1184-ND	5.82	4.66	3.69	M2T12SA5G30
Washable Sub-Mini Antistatic Toggle Switches											
6	SPDT	On-On	A	—	G	—	360-1012-ND	4.20	3.36	2.66	B12AP
	SPDT	On-Off-On	A	—	G	—	360-1013-ND	4.38	3.51	2.78	B13AP
	SPDT	On-Mom	A	—	G	—	360-1014-ND	4.50	3.60	2.85	B15AP
	DPDT	On-On	A	—	G	—	360-1015-ND	5.46	4.37	3.46	B22AP
	DPDT	On-Off-On	A	—	G	—	360-1016-ND	5.88	4.71	3.73	B23AP
—	SPDT	On-On	A	—	G	—	360-1017-ND	4.56	3.65	2.89	B12JB
7	SPDT	On-On	J	—	G	—	360-1018-ND	4.92	3.94	3.12	B12JH
	SPDT	On-Off-On	J	—	G	—	360-1019-ND	5.10	4.08	3.23	B13JH
	SPDT	On-Mom	J	—	G	—	360-1020-ND	5.22	4.18	3.31	B15JH
	DPDT	On-On	J	—	G	—	360-1021-ND	6.54	5.24	4.15	B22JH
	DPDT	On-Off-On	J	—	G	—	360-1022-ND	6.96	5.57	4.41	B23JH
—	SPDT	On-On	J	—	G	—	360-1023-ND	4.92	3.94	3.12	B12JV
Washable Ultra Mini SMT Toggle Switches											
8	SPDT	On-On	A	—	G	—	360-1026-ND	5.70	4.56	3.61	G3T12AP
	SPDT	On-Off-On	A	—	G	—	360-1027-ND	6.12	4.90	3.88	G3T13AP
	DPDT	On-On	A	—	G	—	360-1028-ND	7.62	6.10	4.83	G3T22AP

				Price Each					
Fig.	**Circuit**	**Switching Function**	**Digi-Key Part No.**	**1**	**25**	**100**	**Digi-Key Part No.**	**T&R Pricing 500**	**NKK Part No.**
Washable Ultra-Miniature SMT Toggle Switch									
9	SPDT	On-On	360-1024-1-ND	6.00	4.80	3.80	360-1024-2-ND	1400.00	G3T12AH-R
	SPDT	On-Off-On	360-1025-1-ND	6.42	5.14	4.07	360-1025-2-ND	1498.00	G3T13AH-R

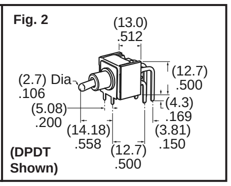
*W=Silver rated 6A @ 125V AC & 3A @ 250V AC G=Gold rated 0.4VA max. @ 28V AC/DC max. †=SP3T uses a Dp Body

Fig. 1



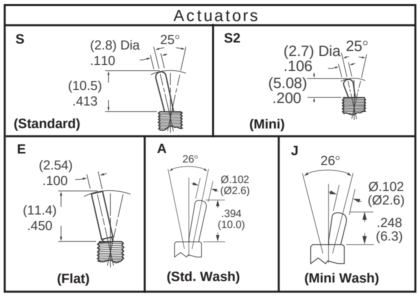
(SPDT Shown)

Fig. 2

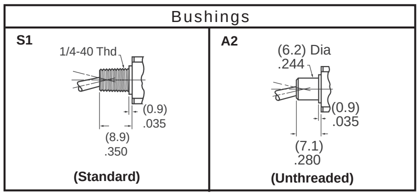


(DPDT Shown)

Actuators



Bushings



Terminals

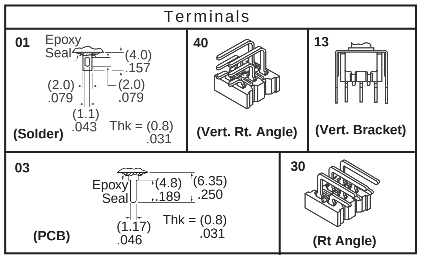


Fig. 3

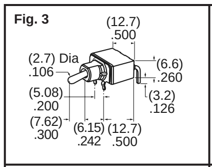


Fig. 4

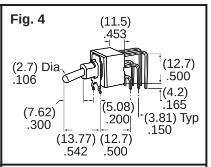


Fig. 5

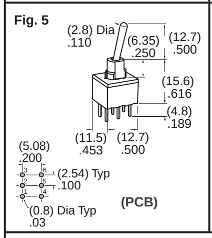


Fig. 6

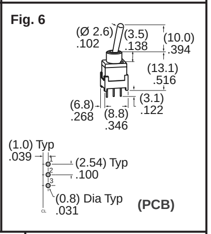


Fig. 7

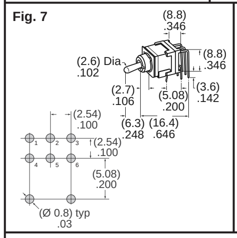


Fig. 8

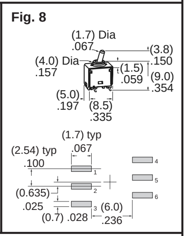
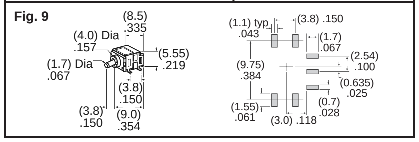


Fig. 9

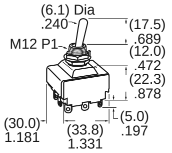


NKK® SWITCHES

Power Toggle and Rocker Switches

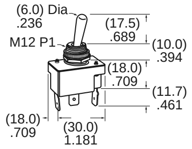
NKK offers one of the most extensive line of power toggle switches. Standard switching currents of 15, 25 and 30 Amps. Locking lever type is ideal for preventing accidental switching, lever must be pulled out then switched. All toggles come complete with mounting hardware. **Dielectric Strength:** 2000V AV min. **Mechanical Life:** 50,000 operations min. **Operating Temperature:** -10°C through +70°C

Fig. 1



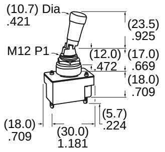
Solder Term 3 Pole Shown

Fig. 2



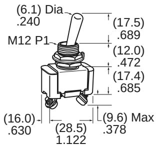
QC Term. 1 Pole Shown

Fig. 3



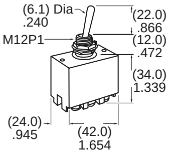
Locking Lever

Fig. 4



Screw Term.

Fig. 5



HD Screw Term.

Panel Cutout for Figs. 1-5

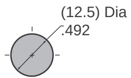
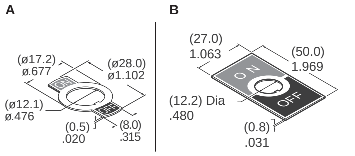
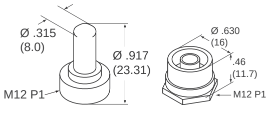


Fig. 6



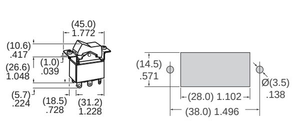
Red/Black Background with "ON" and "OFF" in White Lettering

Fig. 7



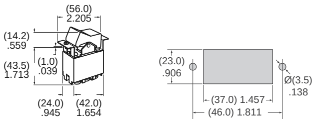
Full-Boot Half-Boot

Fig. 8



All rockers have white actuator. Solder lugs accommodate 12 AWG wire. 30,000 operations min. Operating Temp. -10°C to +70°C

Fig. 9



All rockers have white actuator. M4.5 screw terminals. 30,000 operations min. Operating temp: -10°C to +70°C

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each			NKK Part No.
					1	25	100	
Medium and High Capacity, Solder Lug								
1	SPST	On-Off	15A	360-1185-ND*	5.28	4.23	3.35	S301
	SPDT	On-On	15A	360-1186-ND*	5.28	4.23	3.35	S302
	SPDT	On-Off-On	15A	360-1187-ND*	5.73	4.59	3.63	S303
	SPDT	On-Mom	15A	360-1188-ND‡	5.88	4.71	3.73	S305
	SPDT	Mom-Off-Mom	15A	360-1189-ND‡	6.00	4.80	3.80	S308
	SPDT	On-Off-Mom	15A	360-1190-ND‡	6.21	4.97	3.94	S309
	DPST	On-Off	25A	360-1191-ND*	7.98	6.39	5.06	S331
	DPDT	On-On	25A	360-1192-ND*	7.98	6.39	5.06	S332
	DPDT	On-Off-On	25A	360-1193-ND*	9.39	7.52	5.95	S333
	DPDT	On-Mom	15A	360-1194-ND*	9.45	7.56	5.99	S335
	DPDT	Mom-Off-Mom	15A	360-1195-ND†	10.32	8.26	6.54	S338
	DPDT	On-Off-Mom	15A	360-1196-ND†	10.32	8.26	6.54	S339
	3PST	On-Off	25A	360-1197-ND‡	11.43	9.15	7.24	S31
	3PDT	On-On	25A	360-1198-ND‡	11.76	9.41	7.45	S32
	3PDT	On-Off-On	25A	360-1199-ND‡	12.69	10.16	8.04	S33
	3PDT	On-Mom	15A	360-1200-ND*	12.69	10.16	8.04	S35
	3PDT	Mom-Off-Mom	15A	360-1201-ND*	12.69	10.16	8.04	S38
	4PST	On-Off	25A	360-1202-ND‡	13.56	10.85	8.59	S41
	4PDT	On-On	25A	360-1203-ND‡	13.56	10.85	8.59	S42
	4PDT	On-Off-On	25A	360-1204-ND‡	14.64	11.72	9.28	S43
	4PDT	On-Mom	15A	360-1205-ND†	14.64	11.72	9.28	S45
Medium and High Capacity, .250" (6.35mm) Quick Connect								
2	SPST	On-Off	15A	360-1206-ND	4.53	3.63	2.87	S1F
	SPDT	On-On	15A	360-1207-ND	5.34	4.28	3.39	S2F
	SPDT	On-Off-On	15A	360-1208-ND	5.55	4.44	3.52	S3F
	DPST	On-Off	15A	360-1209-ND	6.75	5.40	4.28	S21F
	DPDT	On-On	20A	360-1210-ND	8.31	6.65	5.27	S6F
	DPDT	On-Off-On	20A	360-1211-ND	8.37	6.70	5.31	S7F
	3PST	On-Off	25A	360-1212-ND‡	12.36	9.89	7.83	S31F
	3PDT	On-On	25A	360-1213-ND‡	12.69	10.16	8.04	S32F
	3PDT	On-Off-On	25A	360-1214-ND‡	13.65	10.92	8.65	S33F
	4PST	On-Off	25A	360-1215-ND†	14.37	11.50	9.11	S41F
	4PDT	On-On	25A	360-1216-ND†	14.79	11.84	9.37	S42F
	4PDT	On-Off-On	25A	360-1217-ND†	15.87	12.70	10.06	S43F
Medium Capacity, Solder Lug, Locking Lever								
3	SPST	On-Off	15A	360-1218-ND	15.39	12.32	9.75	S1AL
	SPDT	On-On	15A	360-1219-ND	17.04	13.64	10.80	S2AL
	SPDT	On-Off-On	15A	360-1220-ND	17.40	13.92	11.02	S3AL
	DPDT	On-On	20A	360-1221-ND	20.40	16.32	12.92	S6AL
	DPDT	On-Off-On	20A	360-1222-ND	20.55	16.44	13.02	S7AL

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each			NKK Part No.
					1	25	100	
Medium Capacity, Screw Lug								
4	SPST	On-Off	15A	360-1223-ND*	5.82	4.66	3.69	S301T
	SPDT	On-On	15A	360-1224-ND*	6.00	4.80	3.80	S302T
	SPDT	On-Off-On	15A	360-1225-ND*	6.36	5.09	4.03	S303T
	SPDT	On-Mom	15A	360-1226-ND‡	6.21	4.97	3.94	S305T
	SPDT	Mom-Off-Mom	15A	360-1227-ND‡	6.90	5.52	4.37	S308T
	SPDT	On-Off-Mom	15A	360-1228-ND‡	6.90	5.52	4.37	S309T
	DPST	On-Off	15A	360-1229-ND†	8.91	7.13	5.65	S331T
	DPDT	On-On	15A	360-1230-ND†	9.39	7.52	5.95	S332T
	DPDT	On-Off-On	15A	360-1231-ND†	10.59	8.48	6.71	S333T
	DPDT	On-Mom	15A	360-1232-ND†	10.86	8.69	6.88	S335T
	DPDT	Mom-Off-Mom	15A	360-1233-ND†	11.40	9.12	7.22	S338T
	DPDT	On-Off-Mom	15A	360-1234-ND†	11.76	9.41	7.45	S339T
High Capacity, Screw Lug								
5	DPST	On-Off	30A	360-1235-ND*	20.90	18.91	16.42	S821
	DPDT	On-On	30A	360-1236-ND*	21.74	19.67	17.08	S822
	DPDT	On-Off-On	30A	360-1237-ND*	21.53	19.48	16.92	S823
	3PST	On-Off	30A	360-1238-ND*	31.25	28.28	24.56	S831
	3PDT	On-On	30A	360-1239-ND*	37.91	34.30	29.79	S832
	3PDT	On-Off-On	30A	360-1240-ND*	37.97	34.36	29.84	S833
	DPDT	On-On	50A	360-1241-ND	51.77	46.84	40.68	S732
Power Toggle Accessories								
6A		On-Off-Plate, 12mm, Nickel, Brass		360-1001-ND	.72	.58	.46	AT201
6B		On-Off-Plate, 12mm, Red/Black		360-1002-ND	2.16	1.73	1.37	AT202
6A		On-Off-Plate, 12mm, Red/Black		360-1003-ND	2.16	1.73	1.37	AT214
7		Splashproof Half-Boot for Power Toggles, Black		360-1605-ND	3.12	2.50	1.98	AT401A
		Splashproof Full-Boot for Power Toggles, Black		360-1606-ND	4.08	3.27	2.59	AT402A
Standard Size Rocker Switches								
8	DPDT	On-On	20A	360-1498-ND*	4.91	4.45	3.87	SW3006A
	DPDT	On-Off-On	15A	360-1499-ND‡	5.21	4.72	4.10	SW3007A
	DPDT	Mom-Off-Mom	15A	360-1500-ND	6.34	5.74	4.99	SW3008A
9	DPST	On-Off	30A	360-1501-ND*	20.85	18.87	16.39	SW3821
	DPDT	On-On	30A	360-1502-ND*	21.63	19.57	17.00	SW3822
	DPDT	On-Off-On	30A	360-1503-ND*	22.05	19.95	17.33	SW3823
	3PST	On-Off	30A	360-1504-ND*	31.25	28.28	24.56	SW3831
	3PDT	On-On	30A	360-1505-ND*	37.97	34.36	29.84	SW3832
	3PDT	On-Off-On	30A	360-1506-ND*	37.97	34.36	29.84	SW3833

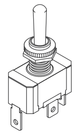
* UL/CSA † UL ‡ CSA

Carling Technologies™

Power Toggle Switches

General purpose workhorses with options tailored to meet most any need. Ratings to 20A 277VAC, international approvals, and circuit choices easily integrates into a variety of different applications. The F-Series has a storied history in the Marine, Food Service, Generator, Industrial Control, and Office Automation markets and is appropriate for usage in low voltage DC applications as well. Hardware included. **Operating Temperature:** 0°F to +150°F (G-Series 85°C) **Thread:** 15/32 - 32UNS - 2A

Fig. 1



Panel Cutout Fig. 1-3

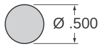


Fig. 2

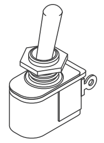


Fig. 3

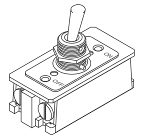


Fig.	Circuit	Type	Terminals	Digi-Key Part No.	Price Each			Carling Tech. Part No.
					1	25	50	
1	SPST	On-Off	.250" QC	432-1074-ND	3.38	2.60	1.82	2FA53-73/TABS
	SPST	On-Off	Screw	432-1075-ND	3.87	2.98	2.09	2FA54-73
	SPDT	On-On	.250" QC	432-1076-ND	4.16	3.20	2.24	2FB53-73/TABS
	SPDT	On-Off-On	.250" QC	432-1077-ND	4.16	3.20	2.24	2FC53-73/TABS
	SPDT	On-Off-On	Screw	432-1078-ND	4.91	3.78	2.65	2FC54-73
	SPDT	On-Off-Mom	Screw	432-1079-ND	6.79	5.23	3.66	6FC54-73
	DPST	On-Off	.250" QC	432-1080-ND	5.36	4.13	2.89	2GK51-73
	DPST	On-Off	Screw	432-1081-ND	6.34	4.88	3.42	2GK54-73
	DPST	On-On	Screw	432-1082-ND	7.87	6.05	4.24	2GL54-73
	DPST	On-Off-On	.250" QC	432-1083-ND	6.40	4.93	3.45	2GM51-73
	DPST	On-Off-On	Screw	432-1084-ND	7.87	6.05	4.24	2GM54-73
	3PST	On-Off	Screw	432-1085-ND	11.64	8.95	6.27	HK254-73
2	SPST	On-Off	6" Wire Lead	432-1086-ND	5.36	4.13	2.89	111-16-73
3	DPST	On-Off	Screw	432-1087-ND	7.74	5.95	4.17	DK284-73

NKK SWITCHES

Environmentally Sealed Switches

For use in outdoor or harsh applications. Toggles: Single and double pole. Rockers and Push Buttons: Single pole. Silver contacts, epoxy sealed solder lug or screw terminals or 7” wire leads, meets IP67 of IEC529 standards. Solder lug terminals have .094” dia. holes. Solder lug and screw models are dust tight and water protected at front panel, wire lead models also dust tight and water protected behind panel. **Electrical Capacity:** Toggle and Push Buttons: 10A @ 125V AC; 6A @ 120VAC -WB Series only; Rockers: 15A @ 125V AC. **Dielectric Strength:** Toggles and Push Buttons: 1,500V AC minimum; Rockers: 3.750V AC minimum between contacts and case. **Mechanical Life:** Toggles: 30,000 operations min.; Rockers: 30,000 operations min.; Push Buttons: 30,000 operations min. for On-On, 30,000 operations min. for On-Mom. **Electrical Life:** 15,000 operations min. (10,000 for momentary rockers). **Operating Temperature:** -30°C through +70°C (toggles and push button); -25°C – +85°C (rockers). **Angle of Throw:** 24° (toggles & rockers). **Panel Thickness:** .157”. **Standard Hardware:** 1 hex nut, 1 locking ring, 1 O-ring (toggles and push buttons)

Fig. 1 — Toggle - Solder Term.

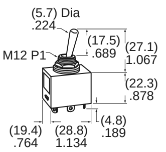


Fig. 2 — Toggle - Screw Term.

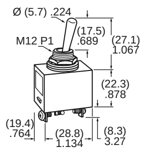


Fig. 3 — Toggle - 7” Wireleads

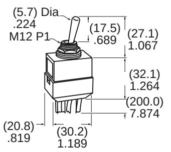
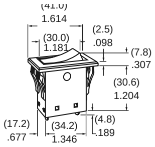


Fig. 4 — Rockers - Solder Term.



Dim. in (mm) Inch

Fig. 5 — Rocker - Screw Term.

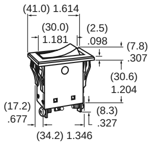


Fig. 6 — Rocker - 7” Wireleads

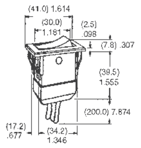


Fig. 7 — Push Button - Solder Term.

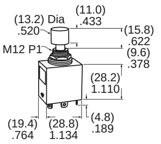


Fig. 8 — Push Button - Screw Term.

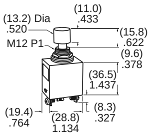


Fig. 9 — Push Button - 7” Wireleads

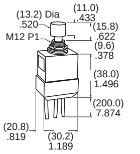


Fig.	Switching Circuit	Function	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Sealed Toggles — 10A							
1	SPST	On-Off	360-1242-ND	10.50	9.50	8.25	WT11S
2	SPST	On-Off	360-1243-ND	11.24	10.17	8.83	WT11T
3	SPST	On-Off	360-1244-ND	25.20	22.80	19.80	WT11L
1	SPDT	On-On	360-1245-ND	11.13	10.07	8.75	WT12S
2	SPDT	On-On	360-1246-ND	11.87	10.74	9.33	WT12T
3	SPDT	On-On	360-1247-ND	25.83	23.37	20.30	WT12L
1	SPDT	On-Off-On	360-1248-ND	11.72	10.61	9.21	WT13S
2	SPDT	On-Off-On	360-1249-ND	12.45	11.27	9.79	WT13T
3	SPDT	On-Off-On	360-1250-ND	26.42	23.91	20.76	WT13L
1	DPST	On-Off	360-1251-ND	15.39	13.93	12.10	WT21S
2	DPST	On-Off	360-1252-ND	16.86	15.26	13.25	WT21T
3	DPST	On-Off	360-1253-ND	36.39	32.93	28.60	WT21L
1	DPDT	On-On	360-1254-ND	16.02	14.50	12.59	WT22S
2	DPDT	On-On	360-1255-ND	17.49	15.83	13.75	WT22T
3	DPDT	On-On	360-1256-ND	37.02	33.50	29.09	WT22L
1	DPDT	On-Off-On	360-1257-ND	17.43	15.77	13.70	WT23S
2	DPDT	On-Off-On	360-1258-ND	18.90	17.10	14.85	WT23T
3	DPDT	On-Off-On	360-1259-ND	38.43	34.77	30.20	WT23L
Sealed Rockers — 6A							
4	SPST	On-Off	360-1507-ND*	12.87	11.65	10.12	WR11AS
4	SPST	On-Off	360-1510-ND†	12.87	11.65	10.12	WR11BS
5	SPST	On-Off	360-1511-ND†	13.55	12.26	10.65	WR11BT
6	SPST	On-Off	360-1512-ND†	26.25	23.75	20.63	WR11BL
4	SPDT	On-On	360-1513-ND*	13.65	12.35	10.73	WR12AS
5	SPDT	On-On	360-1514-ND*	14.34	12.98	11.27	WR12AT
6	SPDT	On-On	360-1515-ND*	27.05	24.48	21.26	WR12AL
4	SPDT	On-On	360-1516-ND†	13.65	12.35	10.73	WR12BS
5	SPDT	On-On	360-1517-ND†	14.34	12.98	11.27	WR12BT
6	SPDT	On-On	360-1518-ND†	27.05	24.48	21.26	WR12BL
4	SPDT	On-Off-On	360-1519-ND*	14.45	13.08	11.36	WR13AS
5	SPDT	On-Off-On	360-1520-ND*	15.12	13.68	11.88	WR13AT
6	SPDT	On-Off-On	360-1521-ND*	27.83	25.18	21.87	WR13AL
4	SPDT	On-Off-On	360-1522-ND†	14.45	13.08	11.36	WR13BS
5	SPDT	On-Off-On	360-1523-ND†	15.12	13.68	11.88	WR13BT
6	SPDT	On-Off-On	360-1524-ND†	27.83	25.18	21.87	WR13BL
Sealed Push Buttons — 10A							
7	SPDT	On-On	360-1421-ND	24.39	19.52	15.45	WB12S
8	SPDT	On-On	360-1422-ND	25.44	20.36	16.12	WB12T
9	SPDT	On-On	360-1423-ND	45.39	36.32	28.75	WB12L
7	SPDT	On-Mom	360-1424-ND	25.44	20.36	16.12	WB15S
8	SPDT	On-Mom	360-1425-ND	26.49	21.20	16.78	WB15T
9	SPDT	On-Mom	360-1426-ND	46.44	37.16	29.42	WB15L

S=Solder Lug: T=Screw Lug: L= 8” Wire Lead *= Black † = Ivory

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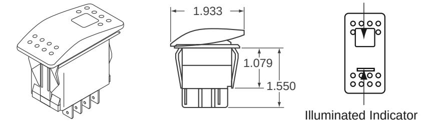
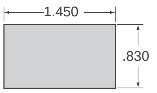
Carling Technologies™

Contura II Sealed Rocker Switches

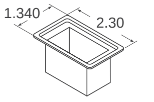
Contura II



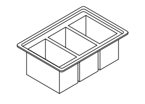
Panel Cut Out



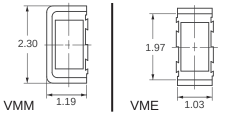
1 Position Panel Bracket



3 Position Panel Bracket



Stacking End Bracket



The V Series Contura II switches have been the benchmark sealed rocker switch for years. The Contura II is constructed of thermoplastic polycarbonate with a nylon 66 surface overlay and dual seal protection out to IP66/IP68 standards. Illuminated versions are superbright 12V LED for long life, .250” QC terminals for easy wiring to switch.

Specifications: • Actuator Type: Contour Rocker • Ratings: 20A @ 12VDC • Contacts: Silver Cad-Oxide • Dielectric Strength: 1500V RMS • Life: 50-100K cycles depending on circuit • Terminals: .250”QC • Lighting: LED-Rated for 100K hrs. for half life

Terminals to be used with connector housing are 14-18 AWG 42100-1, 18-22 AWG 60295-2

Circuit	Function	Features	Actuator Color	Digi-Key Part No.	Price Each 1	25	50	Carling Technologies Part No.
SPST	On-Off	Illum. Grn 12V/Amber 12V	Black	432-1088-ND	8.32	6.40	4.48	V1D2GHNB-AAC00-000
SPST	Off-Mom	Illum. Grn 12V/Amber 12V	Black	432-1089-ND	10.01	7.70	5.39	V2D2GHNB-AAC00-000
SPST	On-On-Off	Illum. Grn 12V/Amber 12V	Black	432-1090-ND	12.64	9.73	6.81	VGD2GHNB-AAC00-000
SPDT	On-On	Illum. Grn 12V/Amber 12V	Black	432-1091-ND	10.14	7.80	5.46	V4D2GHNB-AAC00-000
SP3P	On-Off-On	Illum. Grn 12V/Amber 12V	Black	432-1092-ND	10.14	7.80	5.46	V6D2GHNB-AAC00-000
SP3P	On-On-On	Illum. Grn 12V/Amber 12V	Black	432-1093-ND	13.46	10.35	7.25	VED2GHNB-AAC00-000
SP3P	Mom-Off-Mom	Illum. Grn 12V/Amber 12V	Black	432-1094-ND	10.69	8.23	5.76	V8D2UHNB-AAC00-000
SPST	On-Off	Illuminated Incan 12V	Black	432-1095-ND	5.98	4.60	3.22	V1D2B60B-A9C00-000
SPST	Off-Mom	No Led or Lamp	Black	432-1096-ND	4.88	3.75	2.63	V2D2S00B-AZC00-000
SP3P	On-Off-On	Illuminated Incan 12V	Black	432-1097-ND	8.09	6.23	4.36	V6D2D66B-AAC00-000
DP3P	Mom-Off-Mom	Illum. Grn 12V/Amber 12V	Black	432-1098-ND	12.06	9.28	6.50	VLD2GHNB-AAC00-000
SP3P	Mom-Off-Mom	Illuminated Incan 12V	Black	432-1099-ND	7.09	5.45	3.82	V8D2B60B-AZC00-000

Accessories

Description	Digi-Key Part No.	Price Each 1	25	50	Carling Technologies Part No.
Removal Tool, for removing Contura Actuators	432-1100-ND	.49	.38	.27	VRT
Gasket Seal for Waterproofing Switch to Panel	432-1101-ND	.78	.60	.42	VPS-01
Connector Housing for Contura, Uses Amp 60295-2 terminals	432-1102-ND	.68	.53	.37	VC1-01
Hole Plug for Filling Panel Punch Holes Not Used,Black	432-1103-ND	1.18	.91	.64	VH2-01
Panel Bracket, Stacking Type Center Panel, Black	432-1104-ND	1.18	.91	.64	VMM-01
Panel Bracket, Stacking Type End Panel, Black	432-1105-ND	1.18	.91	.64	VME-01
Panel Bracket, 1 Switch Panel Mount, Black	432-1106-ND	1.41	1.09	.77	VMS-01
Panel Bracket, 3 Switch Panel Mount, Black	432-1107-ND	3.54	2.73	1.91	VM3-01
Panel Bracket, 6 Switch Panel Mount, Black	432-1108-ND	7.09	5.45	3.82	VM6-01

Curvette Rocker Switches

The R Series Curvette line of Rocker Switches are Snap-In power switches used in Appliances, Medical, HVAC, Lawn & Garden and Transportation markets. The Dual Molded Visi-Rocker gives visual indication whether the switch is On or Off and will never burn out like Illuminated Rockers or wear off like Ink Stamped actuators.

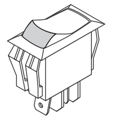
Specifications: 10A @250VAC, 16A @ 125VAC **Dielectric Strength**: UL/CSA: 1000V live to dead metal. 750V across open contacts.

Electrical Life: 100,000 cycles

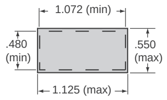
Mechanical Life: 100,000 cycles.

Operating Temperature: 0 to 85ºC

Terminal: .250” QC



Panel Cut Out



Circuit	Type	Body Color	Actuator Color	Markings	Digi-Key Part No.	Price Each 1	25	50	Carling Technologies Part No.
SPST	On-Off	Black	Black Oval	None	432-1109-ND	1.33	1.03	.72	RA901-RB-1-0-N
SPST	On-Off	Black	Black	None	432-1110-ND	1.07	.83	.58	RA901-RB-B-0-N
SPST	On-Off	Black	Black	Vert. “On-Off”	432-1111-ND	1.17	.90	.63	RA901-RB-B-A-N
SPST	On-Off	Black	Black	Vert. I-O	432-1112-ND	1.17	.90	.63	RA901-RB-B-F-N
SPST	On-Off	White	Black	None	432-1113-ND	1.07	.83	.58	RA901-RW-B-0-N
SPST	On-Off	White	White	None	432-1114-ND	1.07	.83	.58	RA901-RW-W-0-N
SPST	On-Off	Black	Blk/Visi Red	None	432-1115-ND	1.17	.90	.63	RA901-VB-B-0-V
SPST	On-Off	Black	Blk/Visi Red	Vert. “On-Off”	432-1116-ND	1.17	.90	.63	RA901-VB-B-1-V
SPST	On-Off	Black	Blk/Visi Red	Horz. “On-Off”	432-1117-ND	1.17	.90	.63	RA901-VB-B-2-V
SPST	On-Off	Black	Blk/Visi Red	Vert. I-O	432-1118-ND	1.17	.90	.63	RA901-VB-B-9-V
SPST	On-Off	Black	Blk/Visi White	Vert. I-O	432-1119-ND	1.27	.98	.69	RA901-VB-B-9-W
SPST	On-Off	White	Wht/Visi Red	Vert. “On-Off”	432-1120-ND	1.27	.98	.69	RA901-VW-W-1-V
SPDT	On-Off-On	Black	Black	None	432-1121-ND	1.27	.98	.69	RC911-RB-B-0-N
SPST	Off-Mom	Black	Black	None	432-1122-ND	1.56	1.20	.84	RD221-MB-B-0-N

Rocker Switches

9138B-ND	ITT Industries Switch Data Book	**$2.95**

Fig. 1

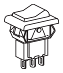


Fig. 2

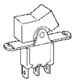
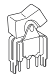


Fig. 3



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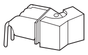

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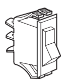

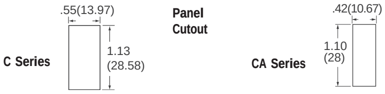

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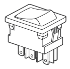
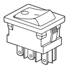
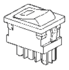


Fig. 7



Vert. White Marking

Fig. 8



LED Illuminated

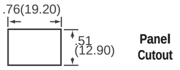


Fig. 9

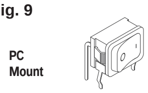


Fig. 10

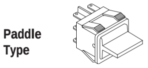
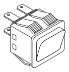
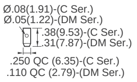


Fig. 11

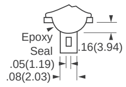


Termination Options

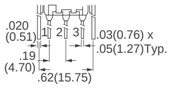
05



Z



V3



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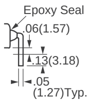


Contact Materials

B Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA max. @ 20 VAC or DC max.

Q Contacts: Coin silver, silver plated. Center Contact & All Terminals: Copper alloy, silver plated. Rating: 5 amps @ 120 VAC or 28 VDC; 2 amps @ 250 VAC; C Series — 15A @ 125 VAC or 10A @ 250 VAC (UL/CSA); DM Series — 10A @ 125 VAC or 5A @ 250 VAC (UL/CSA).

Fig.	Circuit	Actuator Color	Switching Function	Options (see diag.) Termi-nation	Options (see diag.) Contact Material	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	ITT Industries Part No.
					Rocker Switches					
1	SPDT	Black	On-On	Z	Q	CKN2002-ND	7.41	5.93	4.70	U11J51ZQE22
2	SPDT	Black	On-On	Z	Q	CKN2007-ND	6.51	5.21	4.13	7101J1ZQE2
2	SPDT	Black	On-Off-On	Z	Q	CKN2008-ND	6.99	5.60	4.43	7103J1ZQE2
2	4PDT	Black	On-On	Z	Q	CKN2001-ND	19.47	15.58	12.34	7401J1ZQE2
2	DPDT	Black	On-On	Z	Q	CKN2000-ND	8.94	7.16	5.67	7201J1ZQE2
3	SPDT	Black	On-Off-On	V3	B	CKN2003-ND	8.31	6.65	5.27	7103J1V3BE2
4	DPDT	Black	On-On	A	Q	CKN2006-ND	10.26	8.21	6.50	7201J1AQE2
4	SPDT	Black	On-On	A	B	CKN2004-ND	7.17	5.74	4.55	7101J1ABE2
4	SPDT	Black	On-On	A	Q	CKN2005-ND	7.17	5.74	4.55	7101J1AQE2
—	SPDT	Black	On-On	A	Q	CKN2021-ND	3.75	3.00	2.38	JA01J12AQ
					Power Rocker Switches					
5	SPDT	Black	On-On	05	Q	CKC2008-ND	4.55	2.63	2.21	C121J12S205QF
5	SPDT	Red	On-On	05	Q	CKC2025-ND	4.47	3.58	2.84	C121J13S205QF
5	DPDT	Black	On-On	05	Q	CKC2026-ND†	5.19	4.16	3.29	C221J12S205QF
5	DPDT	Red	On-On	05	Q	CKC2027-ND†	5.52	4.42	3.50	C221J13S205QF
5	SPDT	Black	On-On	05	Q	CKC1238-ND	2.21	1.28	1.08	CA01J12207Q
5	SPDT	Green	On-On	05	Q	CKC1241-ND	2.57	1.49	1.25	CA01J16207Q
5	SPDT	Illum/Red	On-On	05	Q	CKC1242-ND	3.10	1.79	1.51	CA04J137207Q
5	SPDT	Illum/Ylw	On-On	05	Q	CKC1244-ND	3.10	1.79	1.51	CA04J157207Q
6	SPDT	Black	On-Off-On	05	Q	CKC2012-ND	4.11	3.29	2.61	D503J12S205QA
6	SPDT	Black	On-Mom	05	Q	CKC2013-ND	4.44	3.56	2.82	D508J12S205QA
6	SPDT	Black	Mom-Off-Mom	05	Q	CKC2022-ND	6.93	5.55	4.39	D105J12S205QA
6	DPDT	Black	On-On	05	Q	CKC2009-ND	3.87	3.35	2.82	DM61J12S205Q
7	SPST	Black	On-Off	05	Q	CKC2011-ND‡	3.60	2.88	2.28	D502J12S215PQF
7	DPDT	Black	On-On	05	Q	CKC2018-ND‡	5.70	4.56	3.61	DM61J12S205PQ
7	DPST	Black	On-Off	05	Q	CKC2019-ND‡	5.22	4.18	3.31	DM62J12S205PQ
8	SPST	Black	On-Off	05	Q	CKC2017-ND	5.13	4.11	3.25	DM54J72S205Q3
8	DPST	Black	On-Off	05	Q	CKC2020-ND	5.79	4.64	3.67	DM64J72S205Q3
—	DPST	Black	On-Off	05	Q	CKC2016-ND‡	6.51	5.21	4.13	DF62J12S215PQF
9	SPDT	Black	On-On (Vert.)	A	Q	CKC2010-ND‡	4.95	3.96	3.14	D501J12S2APQF
9	SPDT	Black	On-On (Horz.)	A	Q	CKC2023-ND‡	4.95	3.96	3.14	D501J12S2AHQF
10	DPDT	Black	On-On	05	Q	CKC2024-ND	3.90	3.12	2.47	D201J52S215QA
11	DPDT	Black	On-Mom	05	Q	CKC2015-ND*	6.54	5.24	4.15	D608J12S205QA
11	DPST	Black	On-Off	05	Q	CKC2014-ND*‡	5.19	4.16	3.29	D602J12S215PQF
11	DPDT	Black	On-Off-On	05	Q	CKC2028-ND*	5.70	4.56	3.61	D603J12S205QA

† Panel Cutout is 1.00" x 1.125" (25.40mm x 28.58mm) * Panel Cutout is .756" x .887" (19.20mm x 22.53mm) ‡ White Vertical Marking

Push Button Switch Accessories

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	ITT Industries Part No.
	Fig 1 Push Button Caps for 8X2X, 8X6X, EX1X/X2X				
White Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1103-ND	.72	.58	.46	752701000
Black Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1104-ND	.45	.36	.29	752702000
Red Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1105-ND	.72	.58	.46	752703000
Orange Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1106-ND	.54	.44	.35	752704000
Yellow Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1107-ND	.54	.44	.35	752705000
Green Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1108-ND	.54	.44	.35	752706000
Blue Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1109-ND	.54	.44	.35	752707000
Brown Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1110-ND	.54	.44	.35	752708000
Gray Gloss Cap for .122" (3.10mm) Diameter Plungers, .375" (9.53mm) Diameter	CKN1111-ND	.54	.44	.35	752709000
	Fig. 2 Push Button Caps EP, TP Series				
White Gloss Cap for .100" (2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1112-ND	.84	.68	.54	465801000
Black Gloss Cap for .100" (2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1113-ND	.48	.39	.31	465802000
Red Gloss Cap for .100" (2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1114-ND	.84	.68	.54	465803000
Orange Gloss Cap for .100" (2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1115-ND	.81	.65	.52	465804000
Yellow Gloss Cap for .100" (2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1116-ND	1.08	.87	.69	465805000
Green Gloss Cap for .100" (2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1117-ND	1.08	.87	.69	465806000
Blue Gloss Cap for .100" (2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1118-ND	.81	.65	.52	465807000
Brown Gloss Cap for .100" (2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1119-ND	.81	.65	.52	465808000
Gray Gloss Cap for .100"(2.54mm) Diameter Plungers, .3" (7.62mm) Diameter	CKN1120-ND	.81	.65	.52	465809000
	Push Button Caps, Snap-Fitting, for L Actuator Plungers				
White Gloss Cap for Snap-Fit Plungers, .395" (10.03mm) Diameter	CKN1209-ND	2.61	2.09	1.66	894101000
Black Gloss Cap for Snap-Fit Plungers, .395" (10.03mm) Diameter	CKN1210-ND	.96	.77	.61	894102000
Red Gloss Cap for Snap-Fit Plungers, .395" (10.03mm) Diameter	CKN1211-ND	2.61	2.09	1.66	894103000

Fig. 1

Series 8020, 8060, E020

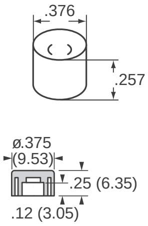
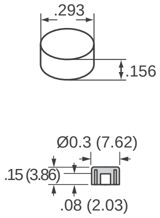


Fig. 2

Series EP, TP



Cannon

ITT Industries
Engineered for life

Push Button Switches

9138B-ND ITT Industries Switch Data Book......**$2.95**

Fig.	Circuit	Switching Function	Options (see diagrams) Termination	Bushing†	Cont. Mat'l.	Dimensions Inch (mm) L x W x D	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Tiny Push Button Switches											
1	SPST	Mom (N/O)	C	H9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN4000-ND	4.35	3.48	2.76	TP11SH9CBE
1	SPST	Mom (N/O)	Z	H7	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN4001-ND	4.17	3.34	2.65	TP11SHZQE
2	SPST	Mom (N/O)	A	H8	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4002-ND	4.92	3.94	3.12	TP11SH8ABE
2	SPST	Mom (N/O)	A	H9	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4003-ND	4.92	3.94	3.12	TP11SH9ABE
2	SPDT	On-Mom	A	H8	Q	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4004-ND	6.42	5.14	4.07	TP12SH8AQE
3	SPDT	On-Mom	AV	H8	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4005-ND	6.45	5.16	4.09	TP12SH8AVBE
1	SPST	Mom (N/O)	C	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN4006-ND	4.68	3.75	2.97	EP11SD1CBE
2	SPST	Mom (N/O)	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4007-ND	5.19	4.16	3.29	EP11SD1ABE
3	SPST	Mom (N/O)	AV	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4009-ND	5.43	4.35	3.44	EP11SD1AVBE
2	SPDT	On-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4008-ND	6.60	5.28	4.18	EP12SD1ABE
1	SPDT	On-Mom	C	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4043-ND	6.09	4.88	3.86	EP12SD1CBE
1	DPST	Mom (N/O)	C	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4044-ND	8.91	7.13	5.65	EP21SD1CBE
1	DPST	Mom (N/O)	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4045-ND	9.87	7.90	6.26	EP21SD1ABE
3	DPST	Mom (N/O)	AV	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4046-ND	10.23	8.19	6.48	EP21SD1AVBE
1	SPDT	On-Mom	Z	SH	Q	.340 x .360 x .340 (8.64 x 9.14 x 8.64)	CKN4053-ND	5.70	4.56	3.61	TP12SHZQE
1	DPST	Mom (N/O)	Z	SH	Q	.340 x .360 x .340 (8.64 x 9.14 x 8.64)	CKN4054-ND	8.94	7.16	5.67	TP21SHZQE
Momentary Push Button Switches											
1	SPDT	On-Mom	C	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4010-ND	8.76	7.01	5.55	8121SHCGE
1	SPDT	On-Mom	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4011-ND	8.61	6.89	5.46	8121SHZGE
2	SPDT	On-Mom	A	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4013-ND	9.33	7.47	5.91	8121SD9AGE
2	SPDT	On-Mom	A	D9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4014-ND	6.39	5.12	4.05	8125SD9ABE
3	SPDT	On-Mom	AV2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4015-ND	9.51	7.61	6.03	8121SD9AV2GE
1	SPDT	On-Mom	V3	D3	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4012-ND	6.33	5.07	4.01	8125SD3V3BE
1	SPDT	On-Mom	Z	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4022-ND	5.67	4.54	3.60	8125SHZBE
1	DPDT	On-Mom	Z	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4023-ND	13.29	10.64	8.42	8221SHZGE
1	DPDT	On-Mom	Z	H	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4024-ND	7.98	6.39	5.06	8225SHZBE
5	SPDT	On-Mom	Z	—	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4025-ND	9.81	7.85	6.22	8121J81ZGE22
5	SPDT	On-Mom	Z	—	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4026-ND	6.87	5.50	4.36	8125J81ZBE22
5	DPDT	On-Mom	Z	—	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4027-ND	14.49	11.60	9.18	8221J81ZGE22
5	DPDT	On-Mom	Z	—	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4028-ND	9.18	7.35	5.82	8225J81ZBE22
5	SPDT	On-On	Z	—	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4033-ND	5.19	4.16	3.29	8161J81ZGE22
5	SPDT	On-Mom	Z	—	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4034-ND	8.19	6.56	5.19	8168J81ZGE22
5	DPDT	On-On	Z	—	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4035-ND	14.22	11.38	9.01	8261J81ZGE22
1	SPDT	On-Mom	C	H	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4029-ND	5.82	4.66	3.69	8125SHCBE
3	SPDT	On-Mom	AV2	D9	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4030-ND	6.57	5.26	4.17	8125SD9AV2BE
1	SPDT	On-Mom	C	D1	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN4041-ND	9.24	7.40	5.86	E121SD1CGE
1	DPDT	On-Mom	C	D1	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN4042-ND	14.85	11.88	9.41	E221SD1CGE
4	SPDT	On-On	Z	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4016-ND	6.12	4.90	3.88	8161SHZQE2
4	SPDT	On-Mom	Z	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4018-ND	6.12	4.90	3.88	8168LHZQE2
5	SPDT	On-Mom	Z	—	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4017-ND	7.77	6.22	4.93	8168J81ZQE22
4	SPDT	On-Mom	Z	H	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4031-ND	6.54	5.24	4.15	8168SHZGE2
4	DPDT	On-On	Z	H	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4032-ND	12.57	10.06	7.97	8261SHZGE2
6	SPST	Mom (N/O)	—	Blk Cap	Q	.620 x .469 Dia. (15.75 x 11.91 Dia.)	CKN1121-ND	5.37	4.30	3.41	8532T1ZQE2
6	SPST	Mom (N/O)	—	Blk Cap	B	.620 x .469 Dia. (15.75 x 11.91 Dia.)	CKN1122-ND	5.37	4.30	3.41	8532T1ZBE2
6	SPST	Mom (N/O)	—	Red Cap	Q	.620 x .469 Dia. (15.75 x 11.91 Dia.)	CKN1123-ND	5.37	4.30	3.41	8532T1ZQE3
6	SPST	Mom (N/O)	—	Red Cap	B	.620 x .469 Dia. (15.75 x 11.91 Dia.)	CKN1124-ND	5.67	4.54	3.60	8532T1ZBE3
6	SPST	Mom (N/O)	—	Wht Cap	Q	.620 x .469 Dia. (15.75 x 11.91 Dia.)	CKN1222-ND	5.37	4.30	3.41	8532T1ZQE1
6	SPST	Mom (N/O)	—	Wht Cap	B	.620 x .469 Dia. (15.75 x 11.91 Dia.)	CKN1223-ND	5.37	4.30	3.41	8532T1ZBE1
Subminiature Push Button Switches											
7	SPST	Mom (N/O)	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4036-ND	4.62	3.70	2.93	8531MCQE2
7	SPST	Mom (N/C)	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4037-ND	5.16	4.13	3.27	8533MCQE2
7	SPST	Mom (N/C)	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN1389-ND	4.47	3.58	2.84	8533MZQE2
7	SPST	Mom (N/C)	C	H	B	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN1390-ND	5.01	4.01	3.18	8533MZBE2
7	SPST	Mom (N/O)	—	8-40 uns	Q	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4038-ND	5.46	4.37	3.46	8631ZQD2
7	SPST	Mom (N/O)	—	8-40 uns	B	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4039-ND	5.46	4.37	3.46	8631ZBD2
7	SPST	Mom (N/O)	C	8-40 uns	B	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4040-ND	5.61	4.49	3.56	8631CBD2
7	SPST	Mom (N/O)	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4019-ND	4.62	3.70	2.93	8531SCQE2
7	SPST	Mom (N/O)	—	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4020-ND	4.47	3.58	2.84	8531MZQE2
7	SPST	Mom (N/O)	—	H	Q	.315 x .375 Dia. (8.00 x 9.53 Dia.)	CKN4021-ND	4.47	3.58	2.84	8532MZQE2
7	SPST	Mom (N/O)	05	H	B	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4057-ND	3.60	2.88	2.28	KM1101RR05B
7	SPST	Mom (N/O)	05	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4058-ND	2.61	2.09	1.66	KM1101RR05Q
7	SPST	Mom (N/O)	C	H	B	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4059-ND	3.60	2.88	2.28	KM1101RR02B
7	SPST	Mom (N/O)	C	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4060-ND	2.61	2.09	1.66	KM1101RR02Q
8	SPDT	Mom (N/O)	C	—	B	.52 x .54 x .385 (13.21 x 13.72 x 9.78)	CKN4062-ND	5.19	4.16	3.29	KM1202A08BE
8	SPDT	Mom (N/O)	C	—	Q	.52 x .54 x .385 (13.21 x 13.72 x 9.78)	CKN4061-ND	3.90	3.12	2.47	KM1202A08QE
7	SPST	Mom (N/C)	05	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4064-ND	2.61	2.09	1.66	KM3301RR05Q
Panel Mount Detector Switch											
9	SPST	Mom (N/O)	Wires	—	B	.715 x .500 x .380 (18.16 x 12.70 x 9.65)	CKN4067-ND	4.50	3.60	2.85	KDS1102RSWC12CB
9	SPST	Mom (N/C)	Wires	—	B	.715 x .500 x .380 (18.16 x 12.70 x 9.65)	CKN4068-ND	5.25	4.20	3.33	KDS3302RSWC12CB

† All threaded bushings include hardware

Fig.	Circuit	Switching Function	Actuator Height In. (mm)	Terminals	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T&R Pricing 600	ITT Industries Part No.
Ultra-Miniature Push Button Switches (Washable)											
10	SPST	Mom (N/O)	.078 (1.98)	PC Mnt	CKN4048-ND	5.58	4.47	3.54	—	—	GP11MCKE
10	SPST	Mom (N/O)	.078 (1.98)	PC Mnt	CKN4049-ND	6.27	5.02	3.98	—	—	GP11MAKE
10	SPDT	Mom (N/C)	.078 (1.98)	Gull Lead	CKN4079CT-ND	6.83	5.88	4.73	CKN4079TR-ND	2268.00	GP12MSCKE(T&R)
11	SPST	Mom (N/O)	.078 (1.98)	Gull Lead	CKN4076CT-ND	7.02	6.05	4.86	CKN4076TR-ND	2332.80	GP11MSAKE(T&R)
11	SPDT	Mom (N/C)	.078 (1.98)	Gull Lead	CKN4078CT-ND	7.61	6.56	5.27	CKN4078TR-ND	2527.20	GP12MSAKE(T&R)
11	SPST	Mom (N/O)	.078 (1.98)	Gull Lead	CKN4075CT-ND	8.35	7.20	5.79	CKN4075TR-ND	2775.60	GP11MSA1KE(T&R)
12	SPST	Mom (N/O)	.058 (1.47)	Gull Lead	CKN4077CT-ND	8.78	7.56	6.08	CKN4077TR-ND	2916.00	GP11MSV1KE(T&R)
12	SPDT	Mom (N/C)	.058 (1.47)	Gull Lead	CKN4080CT-ND	9.30	8.01	6.44	CKN4080TR-ND	3088.80	GP12MSV1KE(T&R)
Surface Mount (Process Sealed, Washable)											
13	SPST	Mom (N/O)	.215 (5.46)	Gull Lead	CKN4055CT-ND	6.66	5.74	4.62	CKN4055TR-ND	2214.00	EP11SD1SAKE(T&R)
13	SPDT	Mom (N/C)	.215 (5.46)	Gull Lead	CKN4056CT-ND	8.19	7.06	5.67	CKN4056TR-ND	2721.60	EP12SD1SAKE(T&R)
13	SPST	Mom (N/O)	Flush	Gull Lead	CKN9021CT-ND	6.66	5.74	4.62	CKN9021TR-ND	2214.00	EP11FPD1SAKE(T&R)
13	SPDT	Mom (N/C)	Flush	Gull Lead	CKN9022CT-ND	8.19	7.06	5.67	CKN9022TR-ND	2721.60	EP12FPD1SAKE(T&R)

Fig. 1

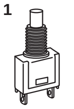


Fig. 2

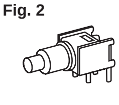


Fig. 3

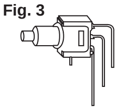


Fig. 4

Comes standard with black cap

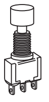


Fig. 5

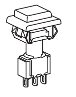


Fig. 6

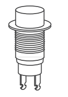


Fig. 7

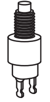


Fig. 8

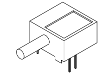


Fig. 9

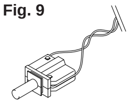


Fig. 10

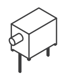


Fig. 11

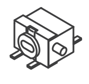


Fig. 12

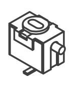
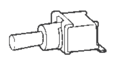
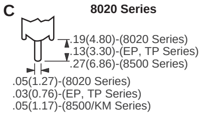


Fig. 13

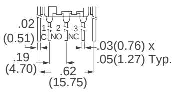


Termination Options

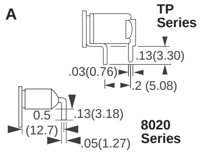
C



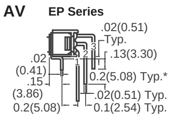
V3



A

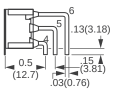


AV

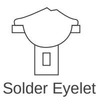


- Middle terminal missing on CKN4009-ND

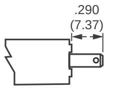
AV2



Z

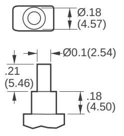


05

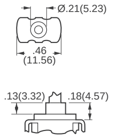


Bushing Options

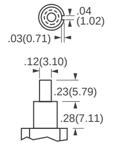
D1 (Unthreaded)



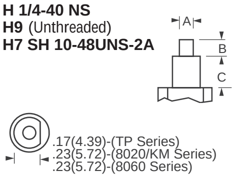
D3 (Unthreaded)



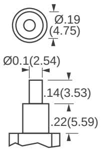
D9 (Unthreaded)



H 1/4-40 NS
H9 (Unthreaded)
H7 SH 10-48UNS-2A



H8 (Unthreaded)



Bushing Option	ITT Ind. Series	Dimensions – In. (mm) A	B	C
H, H9	TP	.100 (2.54)	.139 (3.53)	.220 (5.59)
H	8020	.122 (3.10)	.218 (5.54)	.250 (6.35)
H	8060	.122 (3.10)	.280 (7.11)	.300 (7.62)
SH	TP	.100 (2.54)	.155 (3.94)	.220 (5.59)

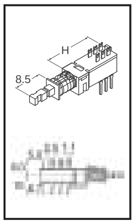
Contact Materials Options

B	Contacts & Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA max. @ 20 VAC or DC max.
Q	Contacts: Coin silver, silver plated. Terminals: Copper alloy, silver plated. Rating: 1A @ 120 VAC; 8060 Series — 6A @ 120 VAC or 3A @ 250 VAC; 8500 Series — 1A @ 120 VAC.
G	Contacts: Coin silver, with gold plate over nickel plate. Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA max. @ 20 VAC or DC max. or 1 amp @ 120 VAC or 28 VDC.

Switch Products

F Series Push Button Switches

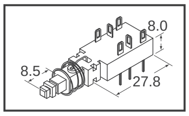
Essential features of the F push button switch are the bridge contact which is spring loaded, guaranteeing constant pressure on the contacts. **Travel:** 4.7/3.3mm **Operating Force:** 650 grams **Switching:** Voltage Max.: 125VAC/30VDC (silver), 50VAC/30VDC (gold), Current Max.: 0.5A (silver), 0.4VA (gold) **Contact Resistance:** 10 - 20mΩ **Contact Material:** Silver or Gold **Operating Temperature:** -40°C to +70°C



Circuit	Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Ind. Part No.
DPDT	Alt Act., 650gF, .5A, PCB-Mnt, Silver Plating	21	401-1223-ND	2.26	1.81	1.44	F2UEE
	Alt Act., 650gF, .4VA, PCB-Mnt, Gold Plating	21	401-1224-ND	4.45	3.56	2.82	F2UEE AU
	Mom., 650gF, .5A, PCB-Mnt, Silver Plating	21	401-1225-ND	2.26	1.81	1.44	F2UOA
4PDT	Alt Act., 650gF, .5A, PCB-Mnt, Silver Plating	33	401-1226-ND	3.52	2.82	2.24	F4UEE
	Alt Act., 650gF, .4VA, PCB-Mnt, Gold Plating	33	401-1227-ND	8.33	6.66	5.28	F4UEE AU
	Mom., 650gF, .5A, PCB-Mnt, Silver Plating	33	401-1228-ND	3.52	2.82	2.24	F4UOA

NE18 Series Power Push Button Switches

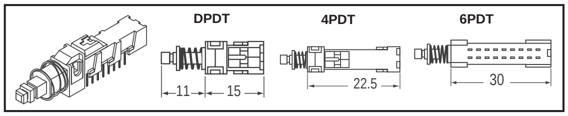
Switching: Voltage Max.: 250VAC/100VDC Current Max.: 6A **Operating Life:** ≥10^4 operations **Total Travel:** 4.7mm **Contact Material:** Silver Cadmium or Silver Nickel **Ambient Temperature:** -20°C to +70°C



Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
DPST	Alternate Action, 950gF, with PC pins only	401-1211-ND	6.76	5.41	4.28	NE18/2AEEP (#41)
DPDT	Alternate Action, 950gF,with PC pins only	401-1209-ND	7.51	6.01	4.76	NE18/2UEEP (#42)
DPST	Alternate Action, 950gF, with Solder Lug and PC pins	401-1210-ND	6.76	5.41	4.28	NE18/2AEEX (#37)
DPDT	Alternate Action, 950gF, with Solder Lug and PC pins	401-1208-ND	7.51	6.01	4.76	NE18/2UEEX (#38)

PHA Series Push Button Switches

Small dimensions make it the ideal choice for today's demanding switch requirements. Non-shorting contacts. **Switching:** Voltage Max.: 30VDC, Current Max.: 100mADC. **Operating Life:** 10^4 operations. **Contact Resistance:** 20mΩ. **Operating Temperature:** -10°C to +60°C

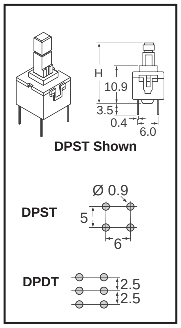


Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
DPDT	Alternate Action, 170gF	401-1192-ND	1.46	1.17	.93	PHA2UEE
	Momentary Action, 170gF	401-1195-ND	1.25	1.01	.80	PHA2UOA
4PDT	Alternate Action, 170gF	401-1193-ND	1.94	1.56	1.23	PHA4UEE
	Momentary Action, 170gF	401-1196-ND	1.74	1.39	1.11	PHA4UOA
6PDT	Alternate Action, 170gF	401-1194-ND	2.68	2.15	1.70	PHA6UEE
	Momentary Action, 170gF	401-1197-ND	2.48	1.99	1.57	PHA6UOA

PVA Push Button Switches

Switching: Voltage Max.: 50VDC, Current Max.: 100mADC **Operating Life:** 10^5operations **Contact Resistance:** 150mΩ **Operating Temperature:** -40°C to +85°C (without button)

Circuit	Description	Dim H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
DPST-NO	Alternate Action, 120gF	17.5	401-1132-ND	1.40	1.12	.89	PVA1 EE H1
	Alternate Action, 120gF	23	401-1134-ND	1.49	1.19	.95	PVA1 EE H2
	Alternate Action, 120gF	20.5	401-1136-ND	1.53	1.23	.98	PVA1 EE H3
	Alternate Action, 120gF	15	401-1138-ND	1.50	1.20	.95	PVA1 EE H4
	Mom. Action, 120gF	17.5	401-1133-ND	1.18	.95	.75	PVA1 OA H1
	Mom. Action, 120gF	23	401-1135-ND	1.31	1.05	.83	PVA1 OA H2
	Mom. Action, 120gF	20.5	401-1137-ND	1.31	1.05	.83	PVA1 OA H3
	Mom. Action, 120gF	15	401-1139-ND	1.40	1.12	.89	PVA1 OA H4
DPDT-NO	Alternate Action, 170gF	17.5	401-1140-ND	1.59	1.27	1.01	PVA2 EE H1
	Alternate Action, 170gF	23	401-1142-ND	1.72	1.38	1.09	PVA2 EE H2
	Alternate Action, 170gF	20.5	401-1144-ND	1.72	1.38	1.09	PVA2 EE H3
	Alternate Action, 170gF	15	401-1146-ND	1.72	1.38	1.09	PVA2 EE H4
	Mom. Action, 170gF	17.5	401-1141-ND	1.37	1.10	.87	PVA2 OA H1
	Mom. Action, 170gF	23	401-1143-ND	1.50	1.20	.95	PVA2 OA H2
	Mom. Action, 170gF	20.5	401-1145-ND	1.73	1.38	1.10	PVA2 OA H3
	Mom. Action, 170gF	15	401-1147-ND	1.50	1.20	.95	PVA2 OA H4



PN Series Push Button Switches

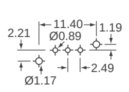


Fig. 1

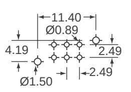


Fig. 2

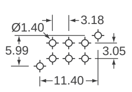


Fig. 3

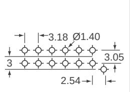
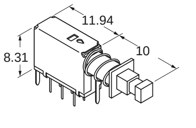
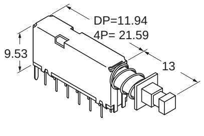


Fig. 4





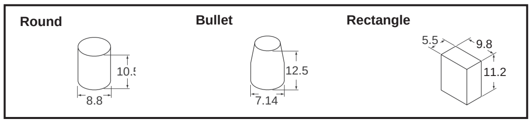
Specifications: • **Contact Rating:** 0.2 Amp @ 30 VDC max. • **Electrical Life:**10,000 Make-and-Break Cycles at Full Load • **Operating/Storage Temp.:** -10°C to +60°C.

Materials: • **Frame:** Tin Plated Steel • **Terminals:** Silver Plated Brass • **Movable Contacts:** Silver Plated (or Clad) Phosphor Bronze • **Terminal Seal:** Epoxy

Fig.	Circuit	Description	Digi-Key Part No.	Price Each 1	100	500	ITT Industries Part No.
1	SPDT	Momentary, 230gf, Nonshorting	CKN1188-ND	.76	.65	.57	PN11SHNA03QE
		Alt. Action, 230 gf, Nonshorting	CKN1189-ND	.83	.71	.62	PN12SHNA03QE
2	DPDT	Momentary, 330gf, Nonshorting	CKN1190-ND	.88	.76	.66	PN21SJNA03QE
		Alt. Action, 330gf, Nonshorting	CKN1191-ND	.93	.81	.70	PN22SJNA03QE
3	DPDT	Momentary, 300gf, Nonshorting	CKN1192-ND	.88	.76	.66	PN21LENA03QE
		Alt. Action, 300gf, Nonshorting	CKN1193-ND	.93	.81	.70	PN22LENA03QE
4	4PDT	Momentary, 300gf, Nonshorting	CKN1194-ND	1.05	.89	.78	PN41LENA02QE
		Alt. Action, 300gf, Nonshorting	CKN1195-ND	1.19	1.01	.89	PN42LENA02QE

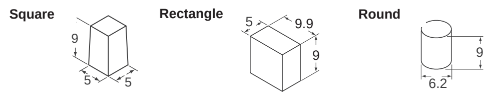
Switch Caps

Switch Caps for F and NE18 Series



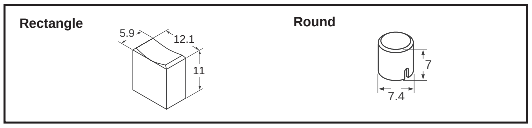
Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Switch Caps for F Series and NE18 Series					
Round, Black, 8.8mm Dia.	401-1215-ND	.55	.45	.35	FG/BLK
Round, Grey, 8.8mm Dia.	401-1217-ND	.55	.45	.35	FG/GRY
Round, Red, 8.8mm Dia.	401-1218-ND	.55	.45	.35	FG/RED
Round, White, 8.8mm Dia.	401-1216-ND	.55	.45	.35	FG/WHT
Bullet, Black, 7mm Dia.	401-1212-ND	.55	.45	.35	FMR/BLK
Bullet, Grey, 7mm Dia.	401-1214-ND	.55	.45	.35	FMR/GRY
Bullet, White, 7mm Dia.	401-1213-ND	.55	.45	.35	FMR/WHT
Rectangle, Black, 9.8 x 5.5mm	401-1219-ND	.55	.45	.35	FSC/BLK
Rectangle, Grey, 9.8 x 5.5mm	401-1221-ND	.55	.45	.35	FSC/GRY
Rectangle, Red, 9.8 x 5.5mm	401-1222-ND	.55	.45	.35	FSC/RED
Rectangle, White, 9.8 x 5.5mm	401-1220-ND	.55	.45	.35	FSC/WHT

Switch Caps for PHA Series



Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Switch Caps for PHA Series					
Square, Indexed, Black, 5mm sq. x 9mm(H)	401-1198-ND	.36	.29	.23	G001A(BLACK)
Square, Indexed, Grey, 5mm sq. x 9mm (H)	401-1199-ND	.38	.31	.24	G001G(GREY)
Square, Indexed, Red, 5mm sq. x 9mm (H)	401-1200-ND	.38	.31	.24	G001R(RED)
Rectangle, Black, 5mm(W) x 10mm(L)	401-1201-ND	.38	.31	.24	G002A(BLACK)
Rectangle, Grey, 5mm(W) x 10mm(L)	401-1202-ND	.38	.31	.24	G002G(GREY)
Rectangle, Red, 5mm(W) x 10mm(L)	401-1203-ND	.38	.31	.24	G002R(RED)
Round, Black, 6.2mm Dia.	401-1204-ND	.38	.31	.24	G003A(BLACK)
Round, Blue, 6.2mm Dia.	401-1207-ND	.38	.31	.24	G003B(BLUE)
Round, Grey, 6.2mm Dia.	401-1205-ND	.38	.31	.24	G003G(GREY)
Round, Red, 6.2mm Dia.	401-1206-ND	.38	.31	.24	G003R(RED)

Switch Caps for PVA Series



Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Switch Caps for PVA Push Button Switches					
Rectangle, Black	401-1152-ND	.47	.38	.31	PE/BLK
Rectangle, Grey	401-1153-ND	.47	.38	.31	PE/GRY
Rectangle, Red	401-1154-ND	.47	.38	.31	PE/RED
Rectangle, White	401-1155-ND	.47	.38	.31	PE/WHT
Round, Black	401-1148-ND	.47	.38	.31	PV/BLK
Round, Grey	401-1149-ND	.47	.38	.31	PV/GRY
Round, Red	401-1150-ND	.47	.38	.31	PV/RED
Round, White	401-1151-ND	.47	.38	.31	PV/WHT

Switch Caps for PN Series

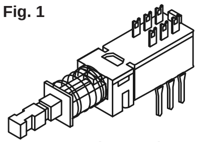
Digi-Key Part No.	Size	Color	Description
CKN1198-ND	7.7 mm Sq.	Black	Fits CKN1192 - 1195-ND
CKN1200-ND	12.2 mm Rect.	Black	Fits CKN1192 - 1195-ND

Digi-Key Part No.	Price Each 1	10	100	ITT Industries Part No.
CKN1198-ND	.27	.25	.21	980A02000
CKN1200-ND	.27	.25	.21	983A02000

Push Button Switches TA SERIES

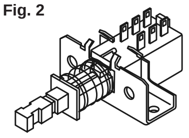
The industry standard used in applications such as audio, instrumentation, telecommunications, and test equipment. Featuring momentary or alternate action switching. P.C. lugs available with or without solder lugs for hand wiring. **Contacts:** Gold or Tin Plated 15µi. **Contact Resistance:** Initial – 5 milliohms max.; Current and Voltage Ratings – 0.5A @ 100VAC, 0.2A @ 250VAC, 1A @ 25VDC. Test – 100,000 cycles min. *Caps sold separately.*

Fig. 1



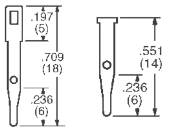
No Mounting Bracket

Fig. 2

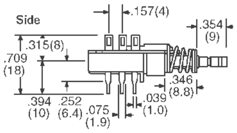


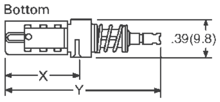
Chassis Mount Version

Terminal Types



Type A Type B



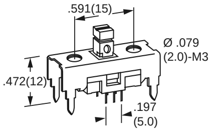


	Y in. (mm)
2PDT	1.66 (42.15)
4PDT	2.13 (54.15)
6PDT	2.60 (66.15)
10PDT	3.55 (90.15)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	Gold Plating					
1	Alternate Action, DPDT, Terminal A	EG1001-ND	3.99	3.20	2.88	TA2UEEAAU
	Momentary, DPDT, Terminal A	EG1002-ND	3.83	3.07	2.76	TA2UOAAAUPN
	Alternate Action, DPDT, Terminal B	EG1003-ND	3.99	3.20	2.88	TA2UEECAU
	Alternate Action, 4PDT, Terminal A	EG1004-ND	6.35	5.08	4.57	TA4UEEAAUPN
	Momentary Action, 4PDT, Terminal A	EG1005-ND	6.17	4.94	4.45	TA4UDAAAU
	Silver Plating					
1	Alt. Action, DPDT, Terminal A	EG1000-ND	1.80	1.45	1.30	TA2UEEAAGPN
	Momentary, DPDT, Terminal A	EG1006-ND	1.67	1.34	1.21	TA2UOAAAGPN
	Alt. Action, DPDT, Terminal B	EG1007-ND	1.80	1.45	1.30	TA2UEECAGPN
	Alt. Action, 4PDT, Terminal A	EG1008-ND	2.21	1.77	1.60	TA4UEEAAGPN
	Momentary, 4PDT, Terminal A	EG1009-ND	2.28	1.83	1.65	TA4UOAA AGPN
	Alt. Action, 6PDT, Terminal A	EG1543-ND	2.60	2.09	1.88	TA6UEEAAGPN
	Momentary, 6PDT, Terminal A	EG1544-ND	2.48	1.98	1.79	TA6UOAAAGPN
	Alt. Action, 10PDT, Terminal A	EG1545-ND	6.64	5.31	4.78	TA10UEEAAGPN
	Momentary, 10PDT, Terminal A	EG1546-ND	6.60	5.28	4.75	TA10UOAAAGPN
2	Chassis Mt, Alt. Action, DPDT Terminal A	EG1010-ND	2.14	1.93	1.65	1XTA000302/2UEEAAG
	Chassis Mt, Alt. Action, 4PDT Terminal A	EG1011-ND	2.51	2.26	1.93	1XTA000302/4UEEAAG

Push Button Switches

JN SERIES



Stand-up version of the TA Series. **Contacts:** Silver Plated **Contact Resistance:** 50 milliohms Max. **Voltage Ratings:** 30V **DC Rating:** 0.1A. Use the TA Series caps. *Caps sold separately.*

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Chassis Mt, Stand Up, Alternate Action DPDT	EG1016-ND	1.60	1.44	1.23	1XJN002UEE
Chassis Mt, Stand Up, Momentary Action DPDT	EG1017-ND	1.60	1.44	1.23	1XJN002U0A

Power Switches P227/P197 SERIES

P227 Series: Rating 125VAC @ 7A/ 250VAC @ 4A. DPDT Alternate Action Panel Mount. Approvals: UL, CSA, Demko, Semko, SEV, Femko, Nemko. **P197 Series:** Rating 5A @ AC250V. Approvals: UL, CSA, VDE, Semko, Nemko, Demko. *Caps sold separately.*

Fig. 1

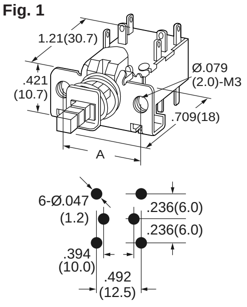


Fig. 2

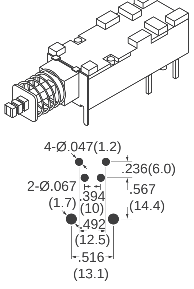


Fig. 3

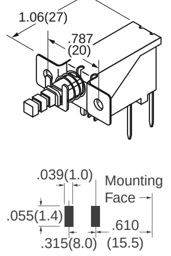


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Push Button, DPDT, Alt. Act., Dim. A = .79" (20mm)	EG1018-ND	3.38	3.05	2.60	P227EEB20
	Push Button, DPDT, Alt. Act., Dim. A = .71" (18mm)	EG1020-ND	3.38	3.05	2.60	P227EEB18
2	Push Button, DPST, Alt. Act., PCB Mnt., 7A	EG1026-ND	3.29	2.97	2.53	P227EE1C
3	Push Button, SPST, Alt. Act., PCB Mnt., 5A	EG1021-ND	2.93	2.65	2.25	P197PBEE
	Push Button, SPST, Alt. Act., Panel Mnt., 5A	EG1022-ND	2.93	2.65	2.25	P197SBEE

Push Button Switches TL SERIES

Rating: DC 30V 0.1A
Circuit: DPDT - 4PDT
Timing: Non-Shorting
Travel Stroke: Full 2.5, Lock 1.5
Operating Force: TL2285 = 180±50gf only. TL4201 = 250 +100/-50gf
Life: 10,000 cycles min.

Caps sold separately.
TL2285 Series: use MTH caps
TL4201 Series: use 4J/6J caps

Fig. 1

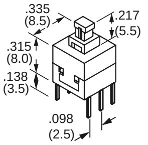


Fig. 2

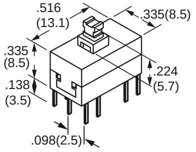


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Momentary Action, DPDT, PCB Mount, Silver Plating	EG1871-ND	1.22	.98	.89	TL2285OA
	Alternate Action, DPDT, PCB Mount, Silver Plating	EG1872-ND	1.22	.98	.89	TL2285EE
2	Momentary Action, 4PDT, PCB Mount, Silver Plating	EG1873-ND	2.57	2.06	1.85	TL4201OAYA
	Alternate Action, 4PDT, PCB Mount, Silver Plating	EG1874-ND	2.57	2.06	1.85	TL4201EEYA

Switch Caps

All caps are gloss finish.

Fig. 1

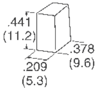


Fig. 2

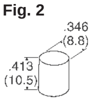


Fig. 3

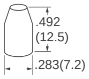
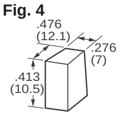


Fig. 4



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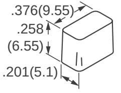

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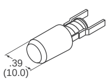


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Rectangle Cap, White	EG1088-ND	.33	.30	.26	TAC WHT
	Rectangle Cap, Black	EG1081-ND	.33	.30	.26	TAC BLK
	Rectangle Cap, Red	EG1085-ND	.33	.30	.26	TAC RED
	Rectangle Cap, Grey	EG1082-ND	.33	.30	.26	TAC GRY
2	Round Cap, White	EG1098-ND	.33	.30	.26	TAG WHT
	Round Cap, Black	EG1091-ND	.33	.30	.26	TAG BLK
	Round Cap, Gray	EG1092-ND	.33	.30	.26	TAG GRY
	Round Cap, Red	EG1095-ND	.33	.30	.26	TAG RED
	Round Cap, Chrome	EG1099-ND	.63	.57	.49	TAG CHROME
3	Bullet Shaped Cap, Black	EG1012-ND	.33	.30	.26	TAM BLK
	Bullet Shaped Cap, White	EG1013-ND	.33	.30	.26	TAM WHT
	Bullet Shaped Cap, Grey	EG1014-ND	.33	.30	.26	TAM GRY
4	Rectangle Cap, Red	EG1019-ND	.33	.30	.26	TAD RED
	Rectangle Cap, Black	EG1877-ND	.33	.30	.26	TAD BLK
	Rectangle Cap, White	EG1878-ND	.33	.30	.26	TAD WHT
	Rectangle Cap, Grey	EG1879-ND	.33	.30	.26	TAD GRY
5	Rectangle Cap, w/Chamfered Edges, Black	EG1875-ND	.44	.40	.35	TAK BLK
	Rectangle Cap, w/Chamfered Edges, Grey	EG1876-ND	.44	.40	.35	TAK GRY
6	Round Cap, w/Shutter Window, Blue	EG2633-ND	1.36	1.23	.99	TH201-BLU
	Round Cap, w/Shutter Window, Green	EG2634-ND	1.36	1.23	.99	TH201-GRN
	Round Cap, w/Shutter Window, Orange	EG2635-ND	1.36	1.23	.99	TH201-ORG
	Round Cap, w/Shutter window, White	EG2636-ND	1.36	1.23	.99	TH201-WHT
	Round Cap, w/Shutter Window, Yellow	EG2637-ND	1.36	1.23	.99	TH201-YEL

Note: these caps fit TA, JN, TL4201, P227 and P197 Series

Miniature Push Button Switches

MTH SERIES

Miniature switches that feature an ultra light feel with a short stroke. Ideal for telecommunications and test equipment, and wherever miniaturization is required. **Contact Material:** Silver Plated. **Contact Resistance:** <0.1 ohm. **Voltage Rating:** 30V DC. **Switching Current Max:** 100mA. **Life:** ≥1 x 10,000 cycles. **Moving Contacts:** Phosphor bronze – 1 micron silver. **Force:** 170 ±100g. **Travel To Lock:** .08" (2mm). **Operating Temperature Range:** -10°C to +60°C. *Caps sold separately.*

Fig. 1
No Mounting Bracket

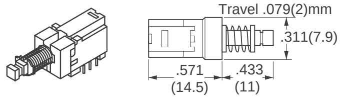


Fig. 3

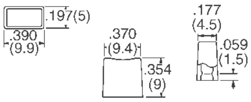


Fig. 2
Chassis Mount Version

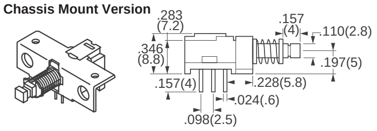


Fig. 4

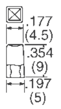


Fig. 5

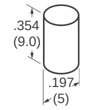


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Right Angle, Momentary, DPDT	EG1101-ND	1.14	1.03	.88	MTH2UOANAGX
	Right Angle, Alternate Action DPDT	EG1102-ND	1.26	1.14	.97	MTH2UEENAGX
	Right Angle, Alternate Action, 4PDT	EG2546-ND	1.31	1.19	1.01	MTH4UEENAGX
	Right Angle, Momentary, 4PDT	EG2547-ND	1.20	1.09	.93	MTH4UOANAGX
2	Chassis Mt, Rt Angle, Alternate Action DPDT	EG1015-ND	1.73	1.56	1.33	1XMTH002UEE
3	Rectangle Cap, Red	EG1185-ND	.25	.23	.19	1C101
	Rectangle Cap, Black	EG1181-ND	.25	.23	.19	1C911
	Rectangle Cap, Light Grey	EG1182-ND	.25	.23	.19	1C951
4	Long Square Cap, Red	EG1195-ND	.25	.23	.19	1D101
	Long Square Cap, Black	EG1191-ND	.25	.23	.19	1D911
	Long Square Cap, Light Grey	EG1192-ND	.25	.23	.19	1D951
5	Round Cap, Diameter, Red	EG1880-ND	.25	.23	.19	1R RED
	Round Cap, Diameter, White	EG1881-ND	.25	.23	.19	1R WHT
	Round Cap, Diameter, Black	EG1882-ND	.25	.23	.19	1R BLK
	Round Cap, Diameter, Light Grey	EG1883-ND	.25	.23	.19	1R LGR
	Round Cap, Diameter, Dark Grey	EG1884-ND	.25	.23	.19	1R DGR

Push Button Switches 700 Series

SPECIFICATIONS:

- **Ratings:** 1A @ 250 VAC, 3A @ 120 VAC
- **Gold Contacts:** 0.4 VA max @ 20 VAC
- **Electrical Life:** 50,000 cycles typical
- **Insulation Resistance:** 1,000 MΩ min.

MATERIALS:

- **Case:** Diallyl Phthalate (DAP)
- **Plunger:** Glass filled nylon or glass filled polyester
- **Bushing:** Nickel plated brass
- **Housing:** Stainless steel
- **Contacts:** Silver or Gold plated copper alloy
- **Mounting Hardware included**

700 Series Cap

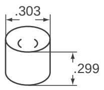


Fig. 1

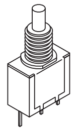


Fig. 2

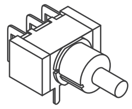


Fig. 3

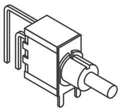


Fig.	Circuit Type	Terminal	Bushing	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	DPDT	PCB	1/4-40NS	3A	EG2590-ND	6.80	6.12	4.90	700DP7B10M2QE
	DPDT	PCB	1/4-40NS	.4VA	EG2591-ND⁎	7.20	6.48	5.19	700DP7B10M2RE
	SPDT	Solder Lug	1/4-40NS	3A	EG2592-ND	5.31	4.78	3.82	700SP7B10M1QE
	SPDT	Solder Lug	1/4-40NS	.4VA	EG2593-ND⁎	5.62	5.06	4.05	700SP7B10M1RE
	SPDT	PCB	1/4-40NS	3A	EG2594-ND	5.31	4.78	3.82	700SP7B10M2QE
	SPDT	PCB	1/4-40NS	.4VA	EG2595-ND⁎	5.62	5.06	4.05	700SP7B10M2RE
2	SPDT	PCB	Unthd	3A	EG2596-ND	6.14	5.53	4.42	700SP7B20M6QE
3	SPDT	PCB	Unthd	3A	EG2597-ND	6.23	5.61	4.49	700SP7B20M7QE
700 Series Caps									
PB Cap, .300" Round, Black for 700 Series					EG2598-ND	.25	.16	.13	700C1BLK
PB Cap, .300" Round, Green for 700 Series					EG2599-ND	.25	.16	.13	700C1GRN
PB Cap, .300" Round, Gray for 700 Series					EG2600-ND	.25	.16	.13	700C1GRY
PB Cap, .300" Round, Red for 700 Series					EG2601-ND	.25	.16	.13	700C1RED
PB Cap, .300" Round, White for 700 Series					EG2602-ND	.25	.16	.13	700C1WHT

⁎ Gold plated copper alloy contacts.

Switches 800, 800A and 800B Series

SPECIFICATIONS FOR 800 AND 800A SERIES ONLY:

- **Ratings:** 1A @ 250 VAC, 3A @ 20 VAC
- **Gold Contacts:** 0.4 VA max @ 20 VAC
- **Electrical Life:** 50,000 cycles typical
- **Insulation Resistance:** 1,000MΩ min.

MATERIALS:

- **Case:** Diallyl Phthalate (DAP)
- **Plunger:** Glass filled nylon or glass filler polyester
- **Bushing:** Nickel plated brass
- **Housing:** Stainless steel
- **Contacts:** Silver or Gold plated copper alloy
- **Mounting Hardware included**

800 Series Cap

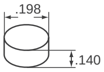


Fig. 1

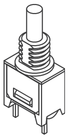


Fig. 2

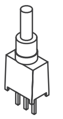


Fig. 3

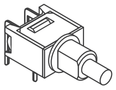


Fig. 4

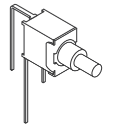


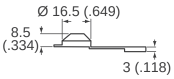
Fig.	Circuit Type	Terminal	Bushing	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Unsealed PB Switches									
1	SPST	PC Mnt.	10-48 Thd.	3A	EG2613-ND	3.06	2.76	2.21	800SP9B5M2QE
	SPST	PC Mnt.	.173" Unthd.	.4VA	EG2614-ND	3.21	2.90	2.32	800SP9B6M2RE
	SPST	PC Mnt.	.225" Unthd.	3A	EG2617-ND	3.54	3.19	2.55	800SP9B8M2QE
3	SPST	Rt. Angle PCB	.173" Unthd.	.4VA	EG2615-ND	3.51	3.17	2.53	800SP9B6M6RE
	SPST	Rt. Angle PCB	.187" Unthd.	.4VA	EG2616-ND	4.51	4.07	3.25	800SP9B7M6RE
	SPDT	Rt. Angle PCB	.173" Unthd.	.4VA	EG2611-ND	4.82	4.34	3.48	800SP8B6M6RE
	SPDT	Rt. Angle PCB	.187" Unthd.	.4VA	EG2612-ND	5.82	5.24	4.19	800SP8B7M6RE
Sealed PB Switches									
2	SPST	PC Mnt.	.180" Unthd.	1A	EG2605-ND	3.74	3.37	2.70	800AWSP9M2QE
	SPST	PC Mnt.	.180" Unthd.	.4VA	EG2606-ND	3.93	3.54	2.83	800AWSP9M2RE
	SPST	PC Mnt.	.180" Unthd.	1A	EG2603-ND	4.42	3.98	3.19	800AWSP8M2QE
	SPST	PC Mnt.	.180" Unthd.	.4VA	EG2604-ND	4.08	3.68	2.94	800AWSP8M2RE
3	SPST	Rt. Angle PCB	.180" Unthd.	.4VA	EG2608-ND	4.19	3.78	3.02	800AWSP9M6RE
	SPST	Rt. Angle PCB	.180" Unthd.	1A	EG2607-ND	4.00	3.61	2.89	800AWSP9M6QE
4	SPST	Vert. Rt. Angle	.180" Unthd.	.4VA	EG2609-ND	4.19	3.78	3.02	800AWSP9M7RE
SMT 800B Series PB Switches									
3	SPST	SMT Term.	—	.4VA	EG2610CT-ND EG2610TR-ND	8.67	6.94 2196.40/500	6.25	800BWSP9SM6RE
Switch Accessories									
Switch Cap, Round, Black for .100" Plunger					EG2618-ND	.25	.16	.13	800C1BLK
Switch Cap, Round, White for .100" Plunger					EG2621-ND	.25	.16	.13	800C1WHT
Switch Cap, Round, Red for .100" Plunger					EG2620-ND	.25	.16	.13	800C1RED
Switch Cap, Round, Green for .100" Plunger					EG2619-ND	.25	.16	.13	800C1GRN

Keylock Switches KO Series

SPECIFICATIONS: • **Materials:** Housing and Cylinder: Die cast zinc alloy
Part includes: Mounting Nut and 2 Keys

Series	Ratings	Insulation Resistance
KO103	1A @ 125 VAC 0.5A @ 250 VAC	200 MΩ min.
KO106	1A @ 125 VAC 0.5A 2 250 VAC	200MΩ min.
KO130	4A @ 125 VAC 2A @ 250 VAC	200MΩ min.

Rubbercover



Metal Dust Cap

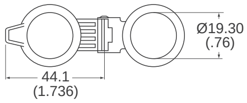


Fig. 1

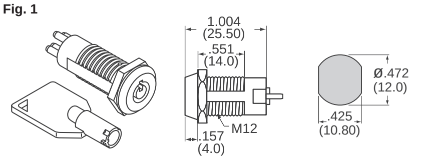


Fig. 2

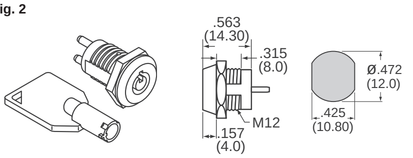


Fig. 3

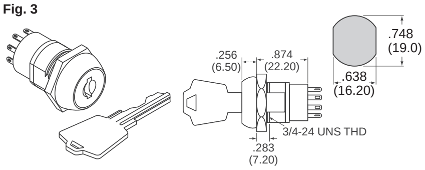


Fig. 4

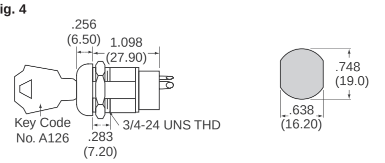
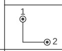


Fig.	Lock Configuration	No. Poles	Key Pull Possible	Switch Type	Amp Rtg. @ 125 VAC	Termination	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	90° Indexing	SPDT	1	On-On	1	Solder Term.	EG2623-ND	6.46	5.82	4.66	KO103C
	 90° Indexing	SPDT	1 & 2	On-On	1	Solder Term.	EG2624-ND	6.46	5.82	4.66	KO103D
2	90° Indexing	SPST	1 & 2	Off-On	1	Solder Term.	EG2625-ND	3.13	2.82	2.26	KO106A
3	45°-45° Indexing	SP-3 pos.	3	On-On-On	4	Eyelet Term.	EG2626-ND	12.64	11.38	9.11	KO130A
	45°-45° Indexing	DP-3 pos.	3	On-On-On	4	Eyelet Term.	EG2627-ND	12.64	11.38	9.11	KO130B
	90° Indexing	DPDT	5	On-On	4	Eyelet Term.	EG2628-ND	12.64	11.38	9.11	KO130Q
	90° Indexing	SPDT	3 & 5	On-On	4	Eyelet Term.	EG2629-ND	12.64	11.38	9.11	KO130R
4	45° Indexing	SPDT	1	On-Mom	4	Eyelet Term.	EG2630-ND	12.64	11.38	9.11	KO130W
Covers											
Rubbercover for KO103 Series							EG2631-ND	.68	.62	.49	KOC1
Metal Lockcap for KO130							EG2632-ND	3.13	2.82	2.26	KOM4

● = Detent Position ⦿ = Keypull Possible ▲ = Momentary

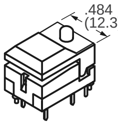
9157B-ND E-Switch Data Book **$2.95**

Momentary Push Button Switches

5500 Narrow and 5511 Wide Body Series

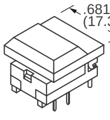
These miniature, momentary switches have a crisp tactile feel and are available in a wide range of colors, available in two widths: the 5500 .47" (12mm) wide and the 5511 .67" (17mm) wide, meet all ESD protection requirements and are available with or without LED. **Operating Travel:** 1.8mm. **Function:** Momentary SPDT. **Contact Bounce:** <5m sec. **Operating Life:** 5 x 10^5 Cycles. **Operating Force:** <200 gf. **Voltage Rating:** 24V. **Current Rating:** 12mA. **Contact Resistance:** <50mΩ.

Fig. 1

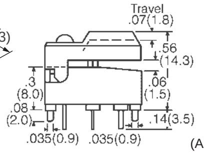


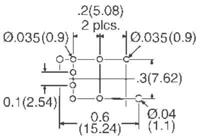
Narrow Body

Fig. 2



Wide Body



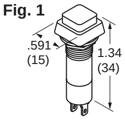


(Above PCB is for Two LED Series)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	5500 Series - Narrow Body					
1	Momentary, SPDT, Black Cap, no LED	EG1701-ND	4.06	3.66	3.12	5501M1X
	Momentary, SPDT, Grey Cap, no LED	EG1702-ND	4.06	3.66	3.12	5501M2X
	Momentary, SPDT, Red Cap, no LED	EG1704-ND	4.06	3.66	3.12	5501M5X
	Momentary, SPDT, White Cap, no LED	EG1708-ND	4.06	3.66	3.12	5501M8X
	Momentary, SPDT, Black Cap, w/Red LED	EG17151-ND	5.30	4.78	4.07	5501M11
	Momentary, SPDT, Black Cap, w/Green LED	EG17171-ND	5.84	5.26	4.48	5501M12
	Momentary, SPDT, Grey Cap, w/Red LED	EG17152-ND	5.30	4.78	4.07	5501M21
	Momentary, SPDT, Grey Cap, w/Green LED	EG17172-ND	5.84	5.26	4.48	5501M22
	Momentary, SPDT, Red Cap, w/Red LED	EG17155-ND	5.30	4.78	4.07	5501M51
	Momentary, SPDT, Red Cap, w/Green LED	EG17175-ND	5.84	5.26	4.48	5501M52
	Momentary, SPDT, White Cap, Red LED	EG17158-ND	5.30	4.78	4.07	5501M81
	Momentary, SPDT, White Cap, w/Green LED	EG17178-ND	5.84	5.26	4.48	5501M82
	Momentary, SPDT, Black Cap, w/Red and Green LED	EG171571-ND	6.62	5.96	5.08	5501M11/2
	Momentary, SPDT, Grey Cap, w/Red and Green LED	EG171572-ND	6.62	5.96	5.08	5501M21/2
	5511 Series - Wide Body					
2	Momentary, SPDT, Black Cap, no LED	EG1709-ND	4.06	3.66	3.12	5511M1X
	Momentary, SPDT, Grey Cap, no LED	EG1710-ND	4.06	3.66	3.12	5511M2X
	Momentary, SPDT, Blue Cap, no LED	EG1711-ND	4.06	3.66	3.12	5511M4X
	Momentary, SPDT, Red Cap, no LED	EG1712-ND	4.06	3.66	3.12	5511M5X
	Momentary, SPDT, White Cap, no LED	EG1714-ND	4.06	3.66	3.12	5511M8X
	Momentary, SPDT, Black Cap, w/Red LED	EG1715-ND	5.30	4.78	4.07	5511M11
	Momentary, SPDT, Black Cap, w/Green LED	EG1719-ND	5.30	4.78	4.07	5511M12
	Momentary, SPDT, Grey Cap, w/Red LED	EG1716-ND	5.30	4.78	4.07	5511M21
	Momentary, SPDT, Grey Cap, w/Green LED	EG1720-ND	5.30	4.78	4.07	5511M22
	Momentary, SPDT, Red Cap, w/Red LED	EG1717-ND	5.30	4.78	4.07	5511M51
	Momentary, SPDT, Red Cap, w/Green LED	EG1721-ND	5.30	4.78	4.07	5511M52
	Momentary, SPDT, White Cap, w/Red LED	EG1718-ND	5.30	4.78	4.07	5511M81
	Momentary, SPDT, White Cap, w/Green LED	EG1722-ND	5.30	4.78	4.07	5511M82
	Momentary, SPDT, Black Cap, w/Red and Green LED	EG1723-ND	5.84	5.26	4.48	5511M11/2
	Momentary, SPDT, Grey Cap, w/Red and Green LED	EG1724-ND	5.84	5.26	4.48	5511M21/2

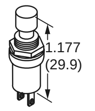
Push Button Switches

Fig. 1



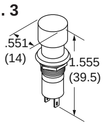
Circuit: SPST (Momentary On) **Rating:** 3A 125V AC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .49" (12.4mm) Hardware Included.

Fig. 2



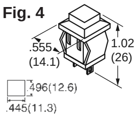
Circuit: SPST (Momentary On) **Rating:** 3A 125V AC **Initial Contact Resistance:** ≤ 50mQ **Hole Cutout:** .28" (7.2mm) Hardware Included.

Fig. 3



Circuit: SPST (Momentary On) **Rating:** 3A 125V AC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .49" (12.4mm) Hardware Included.

Fig. 4



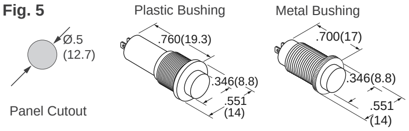
Panel Cutout

Circuit: SPST (Momentary On)

Rating: 1A 125V AC

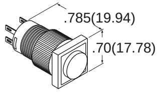
Initial Contact Resistance: ≤ 20mΩ

Fig. 5



Circuit: SPST **Rating:** 3A 125V AC / 1.5A 250V AC
Initial Contact Resistance: ≤ 50mΩ **Hole Cutout:** .50" (12.7mm)
Hardware Included.

Fig. 6



Circuit: SPST **Rating:** 3A 125V /1.5A 250 VAC.

Hole Cutout: .62" (15.75mm)

Hardware Included.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	Momentary Switches					
1	Red, Cap .59" (15mm) Sq., N/O	EG2005-ND	2.32	2.09	1.78	PS1023AT-RED
	Black, Cap .59" (15mm) Sq., N/O	EG2001-ND	2.32	2.09	1.78	PS1023AT-BLK
2	Red, Cap .24" (6mm) Dia., N/O	EG2015-ND	1.24	1.09	1.00	PS1024AT-RED
	Black, Cap .24" (6mm) Dia., N/O	EG2011-ND	1.24	1.09	1.00	PS1024AT-BLK
	Red, Cap .39" (10mm) Dia., N/O	EG2025-ND	1.56	1.40	1.20	PS1024AL-RED
	Black, Cap .39" (10mm) Dia., N/O	EG2021-ND	1.56	1.40	1.20	PS1024AL-BLK
3	Red, Cap .55" (14mm) Dia., N/O	EG2035-ND	2.31	2.09	1.78	PS1040A-RED
	Black, Cap .55" (14mm) Dia.,N/O	EG2031-ND	2.31	2.09	1.78	PS1040A-BLK
4	Red, Cap .55" (14mm) Sq., N/O	EG2045-ND	1.69	1.53	1.30	PS1057A-RED
	Black, Cap .55" (14mm) Sq., N/O	EG2041-ND	1.69	1.53	1.30	PS1057A-BLK
5	Black Cap, Plastic Bushing, N/O	EG1900-ND	2.01	1.82	1.55	RP3502A-BLK
	Black Cap, Plastic Bushing, N/C	EG1929-ND	2.27	2.05	1.75	RP3502B-BLK
	Red Cap, Plastic Bushing, N/O	EG1930-ND	2.01	1.82	1.55	RP3502A-RED
	Red Cap, Plastic Bushing, N/C	EG1931-ND	2.27	2.05	1.75	RP3502B-RED
	Black Cap, Metal Bushing, N/O	EG1932-ND	2.98	2.68	2.29	RP3502MA-BLK
	Black Cap, Metal Bushing, N/C	EG1933-ND	3.33	3.00	2.56	RP3502MB-BLK
	Green Cap, Metal Bushing, N/O	EG1934-ND	2.98	2.68	2.29	RP3502MA-GRN
	Green Cap, Metal Bushing, N/C	EG1935-ND	2.98	2.68	2.29	RP3502MB-GRN
	Yellow Cap, Metal Bushing, N/O	EG1936-ND	2.98	2.68	2.29	RP3502MA-YEL
	Yellow Cap, Metal Bushing, N/C	EG1937-ND	2.98	2.68	2.29	RP3502MB-YEL
	Red Cap, Metal Bushing, N/O	EG1938-ND	2.98	2.68	2.29	RP3502MA-RED
	Red Cap, Metal Bushing, N/C	EG1939-ND	2.98	2.68	2.29	RP3502MB-RED
6	Illuminating Red LED Alt Action	EG2543-ND	6.77	6.10	5.20	RP3508BL-RED
	Illuminating Green LED Alt Action	EG2544-ND	6.77	6.10	5.20	RP3508BL-GRN
	Illuminating Yellow LED Alt Action	EG2545-ND	6.77	6.10	5.20	RP3508BL-YEL

Momentary Push Button Switches

320 and 520 SERIES

320 Series switches are being used in a variety of applications in a great number of industries such as; Instrumentation, Test Equipment, Telecommunications, Audio Visual, and Computers. **Travel:** .028" (.7mm). **Operating Force:** 120 grams. **Type Of Contact:** SPST. **Contact Rating:** 25mA/50V (DC). **Initial Resistance:** 50m ohms. **Life:** 1 X 10^6 switching cycles. • **Snap Time:** Closing: <50µs; Opening: <200µs. **Materials:** Housing: PC-CF; Knob: ABS or equivalent; Contacts (Fixed): CuZn Ag (gold available); Dome Contact: CrNi Au.

520 Series switches designed for digital electronics, offer a smooth, tactile feel. They feature built-in square or round buttons and are available in seven colors. **Travel:** .03" (.8mm). **Operating Force:** 130 grams. **Type of Contact:** SPST n/o. **Contact Rating:** 10mA, 35 V DC; 100mA, 100 V AC. **Initial Contact Resistance:** < 20mΩ. **Life:** 500,000 cycles. **Operating Temp. Range:** +20°C to +85°C. **Materials:** Base: Valox; Button: Polycarbonate; Switch Contact: Laminated silver, self-cleaning.

Fig. 1

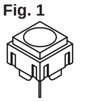


Fig. 2

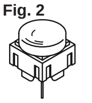


Fig. 3

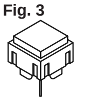


Fig. 4

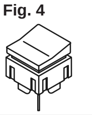


Fig. 5

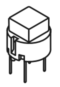


Fig. 6

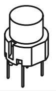


Fig. 7

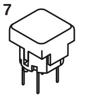


Fig. 8

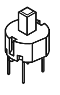


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	320 Series – Momentary Push Button, Sold With Caps					
1	Square, Recessed, Black	EG1301-ND	2.23	2.02	1.72	320E1-1BLK
	Square, Recessed, Grey	EG1303-ND	2.23	2.02	1.72	320E1-1GRY
	Square, Recessed, Red	EG1305-ND	2.23	2.02	1.72	320E1-1RED
	Square, Recessed, White	EG1308-ND	2.23	2.02	1.72	320E1-1WHT
	Square, Recessed, Yellow	EG2549-ND	2.05	1.85	1.58	320E1-1YEL
	Square, Recessed, Blue	EG2550-ND	2.05	1.85	1.58	320E1-1BLU
	Square, Recessed, Green	EG2551-ND	2.05	1.85	1.58	320E1-1GRN
2	Std. Round, Black	EG1311-ND	2.02	1.74	1.50	320.02E1-1.08BLK
	Std. Round, Grey	EG1312-ND	2.02	1.74	1.50	320.02E1-1.08GRY
	Std. Round, Red	EG1315-ND	2.02	1.74	1.50	320.02E1-1.08RED
	Std. Round, White	EG1318-ND	2.02	1.74	1.50	320.02E1-1.08WHT
	Std. Round, Yellow	EG2552-ND	2.57	2.32	1.98	320.02E1-1.08YEL
	Std. Round, Blue	EG2553-ND	2.57	2.32	1.98	320.02E1-1.08BLU
	Std. Round, Green	EG2554-ND	2.57	2.32	1.98	320.02E1-1.08GRN
	Large Round, Black	EG2568-ND	2.66	2.40	2.05	320.02E1-1.09BLK
	Large Round, Grey	EG2569-ND	2.66	2.40	2.05	320.02E1-1.09GRY
	Large Round, Yellow	EG2570-ND	2.66	2.40	2.05	320.02E1-1.09YEL
	Large Round, Blue	EG2571-ND	2.66	2.40	2.05	320.02E1-1.09BLU
	Large Round, Red	EG2572-ND	2.66	2.40	2.05	320.02E1-1.09RED
	Large Round, Green	EG2573-ND	2.66	2.40	2.05	320.02E1-1.09GRN
	Large Round, White	EG2574-ND	2.66	2.40	2.05	320.02E1-1.09WHT
3	Flat Square, Black	EG1321-ND	2.23	2.02	1.72	320.01E1-1BLK
	Flat Square, Grey	EG1322-ND	2.23	2.02	1.72	320.01E1-1GRY
	Flat Square, Red	EG1325-ND	2.23	2.02	1.72	320.01E1-1RED
	Flat Square, White	EG1328-ND	2.23	2.02	1.72	320.01E1-1WHT
	Flat Square, Yellow	EG2555-ND	2.05	1.85	1.58	320.01E1-1YEL
	Flat Square, Blue	EG2556-ND	2.05	1.85	1.58	320.01E1-1BLU
	Flat Square, Green	EG2557-ND	2.05	1.85	1.58	320.01E1-1GRN
4	Tilted Square, Black	EG1341-ND	2.23	2.02	1.72	320.22E1-1BLK
	Tilted Square, Grey	EG1342-ND	2.23	2.02	1.72	320.22E1-1GRY
	Tilted Square, Red	EG1345-ND	2.23	2.02	1.72	320.22E1-1RED
	Tilted Square, White	EG1348-ND	2.23	2.02	1.72	320.22E1-1WHT
	Tilted Square, Yellow	EG2558-ND	2.07	1.87	1.59	320.22E1-1YEL
	Tilted Square, Blue	EG2559-ND	2.07	1.87	1.59	320.22E1-1BLU
	Tilted Square, Green	EG2560-ND	2.07	1.87	1.59	320.22E1-1GRN
	Tilted Rectangular, Black	EG2561-ND	2.12	1.91	1.63	320.21E1-1BLK
	Tilted Rectangular, Grey	EG2562-ND	2.12	1.91	1.63	320.21E1-1GRY
	Tilted Rectangular, Yellow	EG2563-ND	2.12	1.91	1.63	320.21E1-1YEL
	Tilted Rectangular, Blue	EG2564-ND	2.12	1.91	1.63	320.21E1-1BLU
	Tilted Rectangular, Red	EG2565-ND	2.12	1.91	1.63	320.21E1-1RED
	Tilted Rectangular, Green	EG2566-ND	2.12	1.91	1.63	320.21E1-1GRN
	Tilted Rectangular, White	EG2567-ND	2.12	1.91	1.63	320.21E1-1WHT
—	12 mm Finger Recessed Cap, Black	EG2575-ND	2.42	2.18	1.86	320.02E1-1.094BLK
	12 mm Finger Recessed Cap, Grey	EG2576-ND	2.42	2.18	1.86	320.02E1-1.094GRY
	Black Stem (Use's TA/JN Caps)	EG2548-ND	1.95	1.76	1.50	320.02E1-1BLK
	520 Series – Momentary Push Button, Sold With Caps					
5	Square, Black	EG1401-ND	.98	.89	.76	520.01-BLK
	Square, Yellow	EG1403-ND	.98	.89	.76	520.01-YEL
	Square, White	EG1408-ND	.98	.89	.76	520.01-WHT
	Square, Blue	EG1404-ND	.98	.89	.76	520.01-BLU
	Square, Red	EG1405-ND	.98	.89	.76	520.01-RED
	Square, Green	EG1407-ND	.98	.89	.76	520.01-GRN
	Square, Grey	EG1402-ND	.98	.89	.76	520.01-DGR
6	Round, Black	EG1411-ND	.98	.89	.76	520.02-BLK
	Round, Yellow	EG1413-ND	.98	.89	.76	520.02-YEL
	Round, White	EG1418-ND	.98	.89	.76	520.02-WHT
	Round, Blue	EG1414-ND	.98	.89	.76	520.02-BLU
	Round, Red	EG1415-ND	.98	.89	.76	520.02-RED
	Round, Green	EG1417-ND	.98	.89	.76	520.02-GRN
	Round, Grey	EG1412-ND	.98	.89	.76	520.02-DGR
7	Square, Black	EG1419-ND	1.31	1.18	1.01	520.03-BLK
	Square, Grey	EG1420-ND	1.31	1.18	1.01	520.03-DGR
	Square, Red	EG1421-ND	1.31	1.18	1.01	520.03-RED
	Square, White	EG1422-ND	1.31	1.18	1.01	520.03-WHT
	Square, Blue	EG1423-ND	1.31	1.18	1.01	520.03-BLU
	Square, Yellow	EG1424-ND	1.31	1.18	1.01	520.03-YEL
	Square, Green	EG1425-ND	1.31	1.18	1.01	520.03-GRN
8	Black Stem (Use's TA/JN Caps)	EG1426-ND	1.31	1.18	1.01	520.04

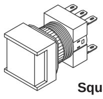
OMRON A16 Series 16mm Switches

Omron's unique A16 series design allows users to make any switch arrangement needed. By changing the rear switch block, users can have a SPDT or a DPDT with LED or incandescent illumination. Changing the rear switch block or lamp is a snap with Omron's exclusive extraction tool. Panel installation is easy, cut your hole and insert the switch into the front of the panel and fix the lock ring and mounting nut from the back of the panel using Omron's fitting wrench to tighten the nut. Switches are sold as a complete assembly with switch block and lamp options available.

Specifications:
Rating Contacts: • 250 VAC: 3A (resistive) • 125 VAC: 5A (resistive) • 30 VDC: 3A (resistive)
LED Indicators: • Rated Voltage: 24 VDC • Rated Current: 10 mA • Operating Voltage: 24VDC±5%
Dielectric Strength: 1000 VAC, 50/60 Hz for 1 min between terminals of same polarity
Life Expectancy: 100,000 operations min. **Operating Temperature:** -10°C to +55°C
Ambient humidity: Operating 35% to 80% **Degree of protection:** IP65

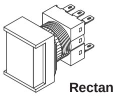
Push Button Switches 16mm

Fig. 1



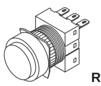
Square

Fig. 2



Rectangular

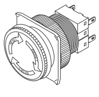
Fig. 3



Round

Fig.	Switch Type	Cont. Blocks Include	Illumin. Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Non-Illuminated Momentary Switches									
1	Square/Flush Button	DPDT	—	Blue	Z1312-ND	9.53	8.82	8.24	A165-AAM-2
				Black	Z1313-ND	9.53	8.82	8.24	A165-ABM-2
				Green	Z1314-ND	9.53	8.82	8.24	A165-AGM-2
				Red	Z1315-ND	9.53	8.82	8.24	A165-ARM-2
				White	Z1316-ND	9.53	8.82	8.24	A165-AWM-2
				Yellow	Z1317-ND	9.53	8.82	8.24	A165-AYM-2
2	Rectangular/Flush Button	DPDT	—	Black	Z1318-ND	9.53	8.82	8.24	A165-JBM-2
				Green	Z1319-ND	9.53	8.82	8.24	A165-JGM-2
				Red	Z1320-ND	9.53	8.82	8.24	A165-JRM-2
				White	Z1321-ND	9.53	8.82	8.24	A165-JWM-2
				Yellow	Z1322-ND	9.53	8.82	8.24	A165-JYM-2
3	Round/Extended Button	SPDT	—	Blue	Z1323-ND	8.16	7.56	7.06	A165-TAM-1
				Black	Z1324-ND	8.16	7.56	7.06	A165-TBM-1
				Green	Z1325-ND	8.16	7.56	7.06	A165-TGM-1
				Red	Z1326-ND	8.16	7.56	7.06	A165-TRM-1
				White	Z1327-ND	8.16	7.56	7.06	A165-TWM-1
				Yellow	Z1328-ND	8.16	7.56	7.06	A165-TYM-1
Illuminated Momentary Switches									
1	Square/Flush Button	DPDT	24VDC	Green	Z1300-ND	12.70	11.76	10.98	A165L-AGM-24D-2
				Red	Z1301-ND	12.70	11.76	10.98	A165L-ARM-24D-2
				White	Z1302-ND	12.70	11.76	10.98	A165L-AWM-24D-2
				Yellow	Z1303-ND	12.70	11.76	10.98	A165L-AYM-24D-2
2	Rectangular/Flush Button	DPDT	24VDC	Green	Z1304-ND	13.61	12.60	11.76	A165L-JGM-24D-2
				Red	Z1305-ND	13.61	12.60	11.76	A165L-JRM-24D-2
				White	Z1306-ND	13.61	12.60	11.76	A165L-JWM-24D-2
				Yellow	Z1307-ND	13.61	12.60	11.76	A165L-JYM-24D-2
3	Round/Extended Button	DPDT	24VDC	Green	Z1308-ND	12.70	11.76	10.98	A165L-TGM-24D-2
				Red	Z1309-ND	12.70	11.76	10.98	A165L-TRM-24D-2
				White	Z1310-ND	12.70	11.76	10.98	A165L-TWM-24D-2
				Yellow	Z1311-ND	12.70	11.76	10.98	A165L-TYM-24D-2

Emergency Stop Switch



Omrons 16mm Emergency stop switches have positive opening mechanism with minimum contact separation of 3mm in accordance with EN60947-5-1. Includes a safety lock mechanism to prevent malfunction. "Turn to Reset" operation to prevent unintentional resetting. Clearly visible red button with IP65 oil resistant seal. **Contacts:** 5A@110VAC/3A 30VDC

Switch Type	Illumination Voltage	Contact	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
30-dia.Head Push-lock Turn-Reset	—	SPST-NC	Z1427-ND	28.58	26.46	24.70	A165E-S-01
	—	DPST-NC	Z1428-ND	34.47	31.92	29.80	A165E-S-02
	24 VDC	SPDT-NC	Z1425-ND	38.56	35.70	33.32	A165E-LS-24D-01
	24 VDC	DPST-NC	Z1426-ND	44.91	41.58	38.81	A165E-LS-24D-02
Emergency Stop Plate, 45mm dia., Yellow			Z1435-ND	3.18	2.94	2.75	A16Z-5070

16mm Accessories

Fig. 1

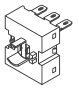


Fig. 2

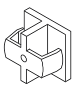


Fig. 3

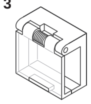


Fig. 4

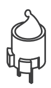


Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Repl. Switch Block - SPDT, Solder Terminal	Z1330-ND	3.63	3.36	3.14	A16-1
	Repl. Switch Block - DPDT, Solder Terminal	Z1331-ND	4.99	4.62	4.32	A16-2
	Repl. Switch Block - SPDT, PCB Terminal	Z1332-ND	7.26	6.72	6.28	A16-1P
	Repl. Switch Block - DPDT, PCB Terminal	Z1333-ND	7.26	6.72	6.28	A16-2P
2	Panel Hole Plug, Square	Z1334-ND	2.72	2.52	2.36	A16ZA-3003
	Panel Hole Plug, Rectangular	Z1335-ND	1.81	1.68	1.57	A16ZJ-3003
	Panel Hole Plug, Round	Z1336-ND	1.81	1.68	1.57	A16ZT-3003
3	Switch Guard, Square & Round, Black	Z1337-ND	4.08	3.78	3.53	A16ZA-5050
	Switch Guard, Rectangular	Z1338-ND	4.08	3.78	3.53	A16ZJ-5050
4	Repl. Neon Lamp, 110V, Red	Z1342-ND	2.72	2.52	2.36	A16-1NRN
	Repl. Neon Lamp, 110V, Green	Z1343-ND	2.72	2.52	2.36	A16-1NGN
—	Fitting Wrench for Tightening Lock Nuts	Z1436-ND	5.44	5.04	4.71	A3B-3004
	Extractor for Lamp and Switch Removal	Z1437-ND	1.81	1.68	1.57	A16Z-5080

M16 Pilot Lights

Indicator light only without the switch for indication of circuit status or warning. Matches switch assembly for uniform panel look.

Fig. 1

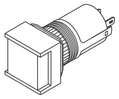


Fig. 2

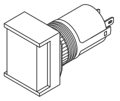


Fig. 3

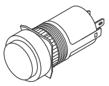


Fig.	Light Type	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Square	24 VDC @ 10 mA	Green	Z1349-ND	8.16	7.56	7.06	M165-AG-24D
			Red	Z1350-ND	8.16	7.56	7.06	M165-AR-24D
			White	Z1351-ND	8.16	7.56	7.06	M165-AW-24D
			Yellow	Z1352-ND	8.16	7.56	7.06	M165-AY-24D
2	Rectangular	24 VDC @ 10mA	Green	Z1354-ND	8.16	7.56	7.06	M165-JG-24D
			Red	Z1355-ND	8.16	7.56	7.06	M165-JR-24D
			White	Z1356-ND	8.16	7.56	7.06	M165-JW-24D
			Yellow	Z1357-ND	8.16	7.56	7.06	M165-JY-24D
3	Round	24 VDC @ 10mA	Green	Z1359-ND	8.16	7.56	7.06	M165-TG-24D
			Red	Z1360-ND	8.16	7.56	7.06	M165-TR-24D
			White	Z1361-ND	8.16	7.56	7.06	M165-TW-24D
			Yellow	Z1362-ND	8.16	7.56	7.06	M165-TY-24D

Key Type Selector Switch

Fig. 1

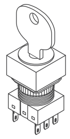


Fig. 2

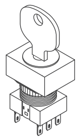


Fig. 3

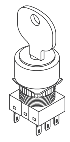


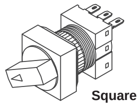
Fig.	Type	No. of Electrical Positions	Contact	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Position	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Square	2 Position	DPDT	On	Mom	—	1	Z1399-ND	28.12	26.04	24.31	A165K-A2AL-2
				On	On	—	1, 2, 3	Z1400-ND	28.12	26.04	24.31	A165K-A2M-2
				On	On	—	1	Z1401-ND	28.12	26.04	24.31	A165K-A2ML-2
				On	On	—	3	Z1402-ND	28.12	26.04	24.31	A165K-A2MR-2
		3 Position	DPDT	On	On	On	1, 2, 3	Z1403-ND	28.12	26.04	24.31	A165K-A3M-2
				On	On	On	2	Z1404-ND	28.12	26.04	24.31	A165K-A3MC-2
				On	On	On	1	Z1405-ND	28.12	26.04	24.31	A165K-A3ML-2
				On	On	On	3	Z1406-ND	28.12	26.04	24.31	A165K-A3MR-2
2	Rectangular	2 Position	DPDT	On	Mom	—	1	Z1407-ND	28.12	26.04	24.31	A165K-J2AL-2
				On	On	—	1 & 2	Z1408-ND	28.12	26.04	24.31	A165K-J2M-2
				On	On	—	1	Z1409-ND	28.12	26.04	24.31	A165K-J2ML-2
				On	On	—	2	Z1410-ND	28.12	26.04	24.31	A165K-J2MR-2
		3 Position	DPDT	On	On	On	1, 2, 3	Z1411-ND	28.12	26.04	24.31	A165K-J3M-2
				On	On	On	2	Z1412-ND	28.12	26.04	24.31	A165K-J3MC-2
				On	On	On	1	Z1413-ND	28.12	26.04	24.31	A165K-J3ML-2
				On	On	On	3	Z1414-ND	28.12	26.04	24.31	A165K-J3MR-2
3	Round	2 Position	DPDT	On	Mom	—	1	Z1415-ND	28.12	26.04	24.31	A165K-T2AL-2
				On	On	—	1 & 2	Z1416-ND	28.12	26.04	24.31	A165K-T2M-2
				On	On	—	1	Z1417-ND	33.62	31.13	29.05	A165K-T2ML-2
				On	On	—	2	Z1418-ND	28.12	26.04	24.31	A165K-T2MR-2
		3 Position	DPDT	Mom	On	Mom	2	Z1419-ND	28.12	26.04	24.31	A165K-T3AC-2
				On	On	On	1, 2, 3	Z1420-ND	28.12	26.04	24.31	A165K-T3M-2
				On	On	On	2	Z1421-ND	28.12	26.04	24.31	A165K-T3MC-2
				On	On	On	1	Z1422-ND	28.12	26.04	24.31	A165K-T3ML-2
				On	On	On	3	Z1423-ND	28.12	26.04	24.31	A165K-T3MR-2
Replacement Key for A165K Series								Z1424-ND	3.63	3.36	3.14	A165K-KEY

(Continued)

Knob Type 16mm Selector Switch

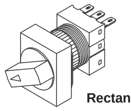
Specifications: Rating Contacts: • 250 VAC: 3A (resistive) • 125 VAC: 5A (resistive) • 30 VDC: 3A (resistive)
LED Indicators: • Rated Voltage: 24 VDC • Rated Current: 10 mA • Operating Voltage: 24VDC+5%
Dielectric Strength: 1000 VAC, 50/60 Hz for 1 min between terminals of same polarity
Life Expectancy: 100,000 operations min. **Operating Temperature:** -10°C to +55°C
Ambient humidity: Operating 35% to 80% **Degree of protection:** IP65

Fig. 1



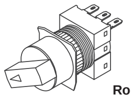
Square

Fig. 2



Rectangular

Fig. 3



Round

Fig.	Switch Type	Position	Switch Function	Contacts	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Non-Illuminated												
1	Square	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1363-ND	15.42	14.28	13.33	12.38	A165S-A2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1364-ND	15.42	14.28	13.33	12.38	A165S-A2A-1
		3 Position	Maintained (On-Off)	DPDT	—	Black	Z1365-ND	17.24	15.96	14.90	13.84	A165S-A3M-2
2	Rectangular	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1375-ND	15.42	14.28	13.33	12.38	A165S-J2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1376-ND	15.42	14.28	13.33	12.38	A165S-J2A-1
		3 Position	Maintained (On-Off)	DPDT	—	Black	Z1377-ND	17.24	15.96	14.90	13.84	A165S-J3M-2
3	Round	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1387-ND	15.42	14.28	13.33	12.38	A165S-T2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1388-ND	15.42	14.28	13.33	12.38	A165S-T2A-1
		3 Position	Maintained (On-Off)	DPDT	—	Black	Z1389-ND	28.12	26.04	24.31	22.57	A165S-T3M-2
Illuminated												
1	Square	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1366-ND	19.96	18.48	17.25	16.02	A165W-A2AG-24D-1
						Red	Z1367-ND	19.96	18.48	17.25	16.02	A165W-A2AR-24D-1
						Yellow	Z1368-ND	19.96	18.48	17.25	16.02	A165W-A2AY-24D-1
		2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1369-ND	19.96	18.48	17.25	16.02	A165W-A2MG-24D-1
						Red	Z1370-ND	19.96	18.48	17.25	16.02	A165W-A2MR-24D-1
						Yellow	Z1371-ND	19.96	18.48	17.25	16.02	A165W-A2MY-24D-1
		3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1372-ND	21.77	20.16	18.82	17.48	A165W-A3MG-24D-2
						Red	Z1373-ND	21.77	20.16	18.82	17.48	A165W-A3MR-24D-2
						Yellow	Z1374-ND	21.77	20.16	18.82	17.48	A165W-A3MY-24D-2
2	Rectangular	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1378-ND	19.96	18.48	17.25	16.02	A165W-J2AG-24D-1
						Red	Z1379-ND	19.96	18.48	17.25	16.02	A165W-J2AR-24D-1
						Yellow	Z1380-ND	19.96	18.48	17.25	16.02	A165W-J2AY-24D-1
		2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1381-ND	19.96	18.48	17.25	16.02	A165W-J2MG-24D-1
						Red	Z1382-ND	19.96	18.48	17.25	16.02	A165W-J2MR-24D-1
						Yellow	Z1383-ND	19.96	18.48	17.25	16.02	A165W-J2MY-24D-1
		3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1384-ND	21.77	20.16	18.82	17.48	A165W-J3MG-24D-2
						Red	Z1385-ND	21.77	20.16	18.82	17.48	A165W-J3MR-24D-2
						Yellow	Z1386-ND	21.77	20.16	18.82	17.48	A165W-J3MY-24D-2
3	Round	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1390-ND	19.96	18.48	17.25	16.02	A165W-T2AG-24D-1
						Red	Z1391-ND	19.96	18.48	17.25	16.02	A165W-T2AR-24D-1
						Yellow	Z1392-ND	19.96	18.48	17.25	16.02	A165W-T2AY-24D-1
		2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1393-ND	19.96	18.48	17.25	16.02	A165W-T2MG-24D-1
						Red	Z1394-ND	19.96	18.48	17.25	16.02	A165W-T2MR-24D-1
						Yellow	Z1395-ND	19.96	18.48	17.25	16.02	A165W-T2MY-24D-1
		3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1396-ND	21.77	20.16	18.82	17.48	A165W-T3MG-24D-2
						Red	Z1397-ND	21.77	20.16	18.82	17.48	A165W-T3MR-24D-2
						Yellow	Z1398-ND	21.77	20.16	18.82	17.48	A165W-T3MY-24D-2

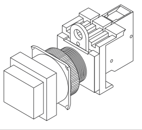
A22 Series Switches

Omron's A22 Series of push button switches offer flexible features not found in other competitors switches. Switch blocks are hand snapped into the back of the switch body enabling the end user to replace, add or modify the switching outputs in seconds. Need a DP switch, no problem, simply snap on another switch block to complete your needs? Switch blocks feature screw-recessed (finger safe) terminals to meet both North American and European safety standards. Switches are water, oil and dust sealed to IP65 standards. Switch units come completely assembled and ready for installation. Purchase additional switch blocks for replacement and additions.

Rating Contacts:
• 24 VAC: 10A (inductive), 10A (resistive) • 110 VAC: 5A (inductive), 10A (resistive) • 220 VAC: 3A (inductive), 6A (resistive) **LED Indicators:** • Rated Voltage: 24 VAC/DC • Rated Current: 15 mA • Operating Voltage: 24 VAC/DC+5% **Dielectric Strength:** 2,500 VAC, 50/60 Hz for 1 min between terminals of same polarity **Life Expectancy:** • PB Illum/Non-Illum: 500,000 operations min. • Emergency Stop: 300,000 operations min. • Selector: 500,000 operations min. **Ambient humidity:** Operating 35% to 80% **Degree of protection:** IP65

22mm Pilot Light

Indicator light only without the switch for indication of circuit status or warning. Matches switch assembly for uniform panel look.



Light Type	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Square/ Extended	24 VAC/ DC	Blue	Z1537-ND	24.49	22.68	21.17	M22-CA-24A
		Green	Z1538-ND	19.05	17.64	16.47	M22-CG-24A
		Red	Z1539-ND	19.05	17.64	16.47	M22-CR-24A
		White	Z1540-ND	19.05	17.64	16.47	M22-CW-24A
		Yellow	Z1541-ND	19.05	17.64	16.47	M22-CY-24A
	110 VAC	Blue	Z1542-ND	31.75	29.40	27.44	M22-CA-T1
		Green	Z1543-ND	31.75	29.40	27.44	M22-CG-T1
		Red	Z1544-ND	31.75	29.40	27.44	M22-CR-T1
		White	Z1545-ND	31.75	29.40	27.44	M22-CW-T1
		Yellow	Z1546-ND	31.75	29.40	27.44	M22-CY-T1

22mm Accessories

Fig. 1

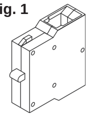


Fig. 2

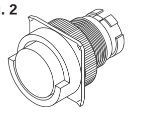


Fig. 3

Fig. 4 *NEW!*

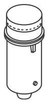


Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Replacement Switch Block, SPST-NC, General Purpose	Z1547-ND	5.27	4.88	4.55	A22-01
	Replacement Switch Block, SPST-NC, Microload	Z1548-ND	12.70	11.76	10.98	A22-01S
	Replacement Switch Block, DPST-NC, General Purpose	Z1549-ND	13.61	12.60	11.76	A22-02
	Replacement Switch Block, DPST-NC, Microload	Z1550-ND	19.05	17.64	16.47	A22-02S
	Replacement Switch Block, SPST-NO, General Purpose	Z1551-ND	5.27	4.88	4.55	A22-10
	Replacement Switch Block, SPST-NO, Microload	Z1552-ND	12.70	11.76	10.98	A22-10S
	Replacement Switch Block, DPST-NO, General Purpose	Z1553-ND	13.61	12.60	11.76	A22-20
	Replacement Switch Block, DPST-NO, Microload	Z1554-ND	19.05	17.64	16.47	A22-20S
2	Half Guard Operational Unit, White	Z1344-ND	5.44	5.04	4.71	A22-HW
	Half Guard Operational Unit, Red	Z1345-ND	5.44	5.04	4.71	A22-HR
	Half Guard Operational Unit, Green	Z1346-ND	5.44	5.04	4.71	A22-HG
	Half Guard Operational Unit, Black	Z1347-ND	5.44	5.04	4.71	A22-HB
	Half Guard Operational Unit, Black	Z1348-ND	5.44	5.04	4.71	A22-HA
3	Emergency Stop Plate, 60mm dia., Yellow with Black Letters	Z1555-ND	4.81	4.46	4.16	A22Z-3466-1
	Emergency Stop Plate, 90mm dia., Yellow with Black Letters	Z1556-ND	4.81	4.46	4.16	A22Z-3476-1
4	Replacement LED Lamp, Red 24VAC/DC	Z1576-ND *NEW!*	11.34	10.50	9.80	A22-24AR
4	Replacement LED Lamp, Green 24VAC/DC	Z1577-ND *NEW!*	11.34	10.50	9.80	A22-24AG
4	Replacement LED Lamp, Yellow 24VAC/DC	Z1578-ND *NEW!*	11.34	10.50	9.80	A22-24AY
4	Replacement LED Lamp, Blue 24VAC/DC	Z1579-ND *NEW!*	13.77	12.75	11.90	A22-24AA
—	Replacement Incandescent Lamp, 120VAC	Z1580-ND *NEW!*	3.24	3.00	2.80	A22-H1
—	Replacement Socket Assembly for Lamps	Z1581-ND *NEW!*	7.29	6.75	6.30	A22-TN
—	Replacement Socket Assembly for Lamps, with X-Former	Z1582-ND *NEW!*	11.18	10.35	9.66	A22-T1
—	Replacement Latch Assembly for Switch Blocks	Z1583-ND *NEW!*	2.43	2.25	2.10	A22-3200
—	Fitting Wrench for Tightening Lock Nuts	Z1557-ND	9.98	9.24	8.63	A22Z-3905
—	Extractor for Lamp and Switch Removal	Z1558-ND	2.72	2.52	2.36	A22Z-3901
—	Lens Remover Tool	Z1559-ND	1.81	1.68	1.57	A3PJ-5080

(Continued)

Push Button Switch 22mm

Fig. 1

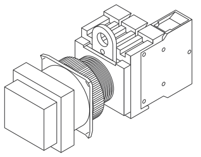


Fig. 2

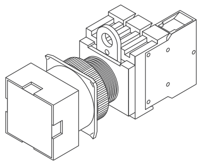


Fig. 3

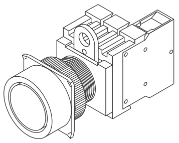


Fig. 4

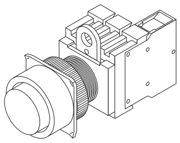


Fig. 5

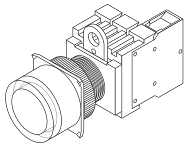


Fig. 6

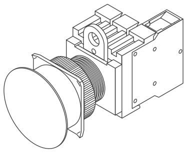


Fig. 7

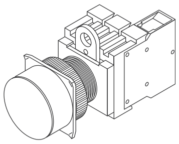


Fig.	Button Type	Contact Blocks Include	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Non-Illuminated Switches (Momentary Operations)										
1	Square/Extended Button	SPST-NC	—	Red	Z1438-ND	14.52	13.44	12.55	11.65	A22-CR-01M
		SPST-NO	—	Blue	Z1561-ND	14.52	13.44	12.55	11.65	A22-CA-10M
			—	Black	Z1562-ND	14.52	13.44	12.55	11.65	A22-CB-10M
			—	Green	Z1563-ND	14.52	13.44	12.55	11.65	A22-CG-10M
			—	White	Z1564-ND	14.52	13.44	12.55	11.65	A22-CW-10M
			—	Yellow	Z1565-ND	14.52	13.44	12.55	11.65	A22-CY-10M
		SPST-NO + SPST-NC	—	Blue	Z1566-ND	19.96	18.48	17.25	16.02	A22-CA-11M
			—	Black	Z1567-ND	19.96	18.48	17.25	16.02	A22-CB-11M
			—	Green	Z1568-ND	19.96	18.48	17.25	16.02	A22-CG-11M
			—	Red	Z1569-ND	19.96	18.48	17.25	16.02	A22-CR-11M
			—	White	Z1570-ND	19.96	18.48	17.25	16.02	A22-CW-11M
			—	Yellow	Z1571-ND	19.96	18.48	17.25	16.02	A22-CY-11M
2	Square/Full Guard Button	SPST-NO	—	Blue	Z1440-ND	14.52	13.44	12.55	11.65	A22-DA-10M
			—	Black	Z1441-ND	14.52	13.44	12.55	11.65	A22-DB-10M
			—	Green	Z1442-ND	14.52	13.44	12.55	11.65	A22-DG-10M
			—	White	Z1443-ND	14.52	13.44	12.55	11.65	A22-DW-10M
			—	Yellow	Z1444-ND	14.52	13.44	12.55	11.65	A22-DY-10M
		SPST-NO + SPST-NC	—	Red	Z1445-ND	19.96	18.48	17.25	16.02	A22-DR-11M
3	Round Flush Button	SPST-NO	—	Blue	Z1446-ND	10.89	10.08	9.41	8.74	A22-FA-10M
			—	Black	Z1447-ND	10.89	10.08	9.41	8.74	A22-FB-10M
			—	Green	Z1448-ND	10.89	10.08	9.41	8.74	A22-FG-10M
			—	Red	Z1449-ND	11.66	10.80	10.08	9.36	A22-FR-10M
			—	White	Z1450-ND	10.89	10.08	9.41	8.74	A22-FW-10M
			—	Yellow	Z1451-ND	10.89	10.08	9.41	8.74	A22-FY-10M
4	Round/Extended Button	SPST-NC	—	Red	Z1452-ND	9.98	9.24	8.63	8.01	A22-TR-01M
		SPST-NO + SPST-NC	—	Red	Z1453-ND	14.52	13.44	12.55	11.65	A22-TR-11M
5	Round Full-Guard Button	SPST-NO	—	Blue	Z1454-ND	10.89	10.08	9.41	8.74	A22-GA-10M
			—	Black	Z1455-ND	10.89	10.08	9.41	8.74	A22-GB-10M
			—	Green	Z1456-ND	10.89	10.08	9.41	8.74	A22-GG-10M
			—	Red	Z1457-ND	10.89	10.08	9.41	8.74	A22-GR-10M
			—	White	Z1458-ND	10.89	10.08	9.41	8.74	A22-GW-10M
			—	Yellow	Z1459-ND	10.89	10.08	9.41	8.74	A22-GY-10M
6	Medium-size Mushroom (40-mm dia head)	SPST-NC	—	Red	Z1460-ND	12.70	11.76	10.98	10.20	A22-MR-01M
		SPST-NO	—	Blue	Z1461-ND	12.70	11.76	10.98	10.20	A22-MA-10M
			—	Black	Z1462-ND	12.70	11.76	10.98	10.20	A22-MB-10M
			—	Green	Z1463-ND	12.70	11.76	10.98	10.20	A22-MG-10M
			—	White	Z1464-ND	12.70	11.76	10.98	10.20	A22-MW-10M
			—	Yellow	Z1465-ND	12.70	11.76	10.98	10.20	A22-MY-10M
7	Small-size Mushroom (30-mm dia. Head)	SPST-NC	—	Red	Z1466-ND	11.79	10.92	10.20	9.47	A22-SR-01M
		SPST-NO	—	Blue	Z1467-ND	11.79	10.92	10.20	9.47	A22-SA-10M
			—	Black	Z1468-ND	11.79	10.92	10.20	9.47	A22-SB-10M
			—	Green	Z1469-ND	11.79	10.92	10.20	9.47	A22-SG-10M
			—	White	Z1470-ND	11.79	10.92	10.20	9.47	A22-SW-10M
			—	Yellow	Z1471-ND	11.79	10.92	10.20	9.47	A22-SY-10M
Non-Illuminated Switches (Latching Operations)										
1	Square/Extended Button	SPST-NC	—	Red	Z1572-ND	20.87	19.32	18.04	16.75	A22-CR-01A
		SPST-NO + SPST-NC	—	Black	Z1573-ND	27.22	25.20	23.52	21.84	A22-CB-11A
Illuminated Switches (Momentary Operations)										
1	Square/Extended Button LED Illuminated	SPST-NC	24 VAC/DC	Red	Z1472-ND	26.31	24.36	22.74	21.12	A22L-CR-24A-01M
		SPST-NC	110 VAC	Red	Z1473-ND	30.84	28.56	26.66	24.76	A22L-CR-T1-01M
2	Square/Full Guard Button LED Illuminated	SPST-NO	24 VAC/DC	Blue	Z1474-ND	42.64	39.48	36.85	34.22	A22L-DA-24A-10M
				Green	Z1475-ND	26.31	24.36	22.74	21.12	A22L-DG-24A-10M
				White	Z1476-ND	26.31	24.36	22.74	21.12	A22L-DW-24A-10M
				Yellow	Z1477-ND	26.31	24.36	22.74	21.12	A22L-DY-24A-10M
		SPST-NO	110 VAC	Blue	Z1478-ND	46.27	42.84	39.99	37.13	A22L-DA-T1-10M
				Green	Z1479-ND	30.84	28.56	26.66	24.76	A22L-DG-T1-10M
				White	Z1480-ND	30.84	28.56	26.66	24.76	A22L-DW-T1-10M
				Yellow	Z1481-ND	30.84	28.56	26.66	24.76	A22L-DY-T1-10M
3	Round/Clear Full Guard Button LED Illuminated	SPST-NC	24 VAC/DC	Red	Z1482-ND	19.96	18.48	17.25	16.02	A22L-GR-24A-01M
		SPST-NO	24 VAC/DC	Blue	Z1483-ND	36.29	33.60	31.36	29.12	A22L-GA-24A-10M
				Green	Z1484-ND	19.96	18.48	17.25	16.02	A22L-GG-24A-10M
				White	Z1485-ND	19.96	18.48	17.25	16.02	A22L-GW-24A-10M
				Yellow	Z1486-ND	19.96	18.48	17.25	16.02	A22L-GY-24A-10M
		SPST-NC	110 VAC	Red	Z1487-ND	24.49	22.68	21.17	19.66	A22L-GR-T1-01M
		SPST-NO	110 VAC	Blue	Z1488-ND	39.92	36.96	34.50	32.04	A22L-GA-T1-10M
				Green	Z1489-ND	24.49	22.68	21.17	19.66	A22L-GG-T1-10M
				White	Z1490-ND	24.49	22.68	21.17	19.66	A22L-GW-T1-10M
				Yellow	Z1491-ND	24.49	22.68	21.17	19.66	A22L-GY-T1-10M
4	Round/Extended Button LED Illuminated	SPST-NC	24 VAC/DC	Red	Z1492-ND	16.33	15.12	14.12	13.11	A22L-TR-24A-01M
		SPST-NO	24 VAC/DC	Blue	Z1493-ND	32.66	30.24	28.23	26.21	A22L-TA-24A-10M
				Green	Z1494-ND	16.33	15.12	14.12	13.11	A22L-TG-24A-10M
				White	Z1495-ND	16.33	15.12	14.12	13.11	A22L-TW-24A-10M
				Yellow	Z1496-ND	16.33	15.12	14.12	13.11	A22L-TY-24A-10M
		SPST-NC	110 VAC	Red	Z1497-ND	20.87	19.32	18.04	16.75	A22L-TR-T1-01M
		SPST-NO	110 VAC	Blue	Z1498-ND	36.29	33.60	31.36	29.12	A22L-TA-T1-10M
				Green	Z1499-ND	20.87	19.32	18.04	16.75	A22L-TG-T1-10M
				White	Z1500-ND	20.87	19.32	18.04	16.75	A22L-TW-T1-10M
				Yellow	Z1501-ND	20.87	19.32	18.04	16.75	A22L-TY-T1-10M

(Continued)

Emergency Stop Push Button Switch

Fig. 1

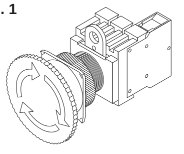


Fig. 2

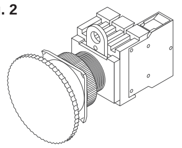


Fig. 3

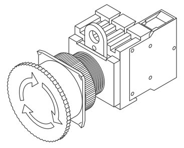


Fig. 4

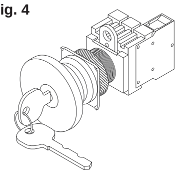


Fig. 5

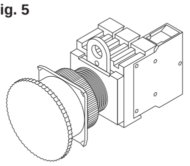


Fig. 6

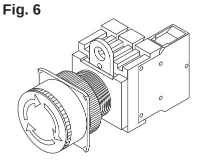


Fig. 7

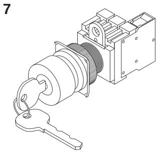
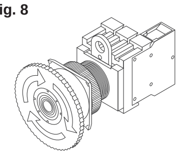


Fig. 8



Omron Emergency stop switches feature a positive opening mechanism with minimal contact separation of 3mm in accordance with EN60947-5-1. Safety lock mechanism prevents misuse or tampering. Innovative two-piece snap together construction reduces installation time and shorter panel depth requirements. Use for Emergency Stop switching on equipment, conveyors and augers, construction equipment and vehicles. Red cap standard. **Contacts**: 10A@110VAC or 24VDC

Fig.	Switch Type	Contact	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Non-Lighted Models								
1	60-dia. Head Push-lock Turn-reset	SPST-NC	Z1502-ND	27.22	25.20	23.52	21.84	A22E-L-01
2	60-dia. Head Push-pull	SPST-NC	Z1503-ND	32.66	30.24	28.23	26.21	A22E-LP-01
3	40-dia. Head Push-lock Turn-reset	SPST-NC	Z1504-ND	24.95	23.10	21.56	20.02	A22E-M-01
4	40-dia. Head Push-lock Key-reset	SPST-NC SPST-NO/SPST-NC	Z1505-ND Z1560-ND	45.81 38.56	42.42 35.70	39.60 33.32	36.77 30.94	A22E-MK-01 A22E-MK-11
5	40-dia. Head Push-pull	SPST-NC SPST-NO/SPST-NC	Z1506-ND Z1507-ND	30.84 37.65	28.56 34.86	26.66 32.54	24.76 30.22	A22E-MP-01 A22E-MP-11
6	30-dia. Head Push-lock Turn-reset	SPST-NC	Z1508-ND	30.84	28.56	26.66	24.76	A22E-S-01
7	30-dia. Head Push-lock Key-reset	SPST-NC	Z1509-ND	38.56	35.70	33.32	30.94	A22E-SK-01

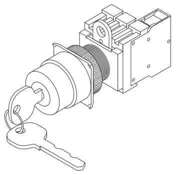
Lighted Models

Fig.	Switch Type	Contact	Illumination Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
8	40-dia. Head Push-lock Turn-reset	SPST-NC	24 VAC/DC (LED)	Z1510-ND	40.37	37.38	34.89	32.40	A22EL-M- 24A-01
	40-dia. Head Push-lock Turn-reset withTrans.	SPST-NC	110 VAC (LED)	Z1511-ND	47.17	43.68	40.77	37.86	A22EL-M-T1-01

Key Type Selector Switch

Key Selector switches for secured switching or resetting. Available in either momentary or Alternate Action. (Ip65 oil and dust tight construction. Comes complete with 2 keys. **Contact**: 10A@110VAC or 24VDC

Type	Number of Positions	Contacts	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Position	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Key Type Selector Switch	2	SPST-NO	On On On	Mom Off Off	— — —	1 1 & 2 1	Z1530-ND Z1531-ND Z1532-ND	19.05 19.05 19.05	17.64 17.64 17.64	16.47 16.47 16.47	15.29 15.29 15.29	A22K-2AL-10 A22K-2M-10 A22K-2ML-10
	3	SPST-NO + SPST-NC	Mom On On On	Off On On On	Mom Off Off Off	2 1 & 3 2 1	Z1533-ND Z1534-ND Z1535-ND Z1536-ND	26.31 26.31 26.31 26.31	24.36 24.36 24.36 24.36	22.74 22.74 22.74 22.74	21.12 21.12 21.12 21.12	A22K-3AC-11 A22K-3M-11 A22K-3MC-11 A22K-3ML-11

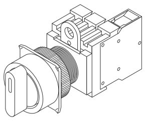


Knob Type Selector Switch

Large easy to switch knob selector switches for On-Off and selection for control of industrial controls. Snap acting type switch feedback ensures confident operator feedback during switching, even while wearing gloves.

Available in either non-illuminated or LED illuminated versions. (IP65 oil and dust tight construction.)

Contacts: 10A@110VAC or 24VDC.



Switch Type	Position	Switch Function	Contacts	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Illuminated											
Knob-type Selector Switch	2 position	Spring Return (Momentary)	SPST-NO	24 VAC/DC	Blue Green Red Yellow	Z1514-ND Z1515-ND Z1516-ND Z1517-ND	38.10 22.68 22.68 22.68	35.28 21.00 21.00 21.00	32.93 19.60 19.60 19.60	30.58 18.20 18.20 18.20	A22W-2AA-24A-10 A22W-2AG-24A-10 A22W-2AR-24A-10 A22W-2AY-24A-10
	2 position	Maintained (On-Off)	SPST-NO	24 VAC/DC	Blue Green Red Yellow	Z1518-ND Z1519-ND Z1520-ND Z1521-ND	38.10 22.68 22.68 22.68	35.28 21.00 21.00 21.00	32.93 19.60 19.60 19.60	30.58 18.20 18.20 18.20	A22W-2MA-24A-10 A22W-2MG-24A-10 A22W-2MR-24A-10 A22W-2MY-24A-10
	3 position	Spring Return (Momentary)	SPST-NO + SPST-NC	24 VAC/DC	Blue Green Red Yellow	Z1522-ND Z1523-ND Z1524-ND Z1525-ND	41.73 26.31 26.31 26.31	38.64 24.36 24.36 24.36	36.07 22.74 22.74 22.74	33.49 21.12 21.12 21.12	A22W-3AA-24A-11 A22W-3AG-24A-11 A22W-3AR-24A-11 A22W-3AY-24A-11
	3 position	Maintained (On-Off)	SPST-NO + SPST-NC	24 VAC/DC	Blue Green Red Yellow	Z1526-ND Z1527-ND Z1528-ND Z1529-ND	41.73 25.40 25.40 25.40	38.64 23.52 23.52 23.52	36.07 21.96 21.96 21.96	33.49 20.39 20.39 20.39	A22W-3MA-24A-11 A22W-3MG-24A-11 A22W-3MR-24A-11 A22W-3MY-24A-11
Non-Illuminated											
Knob-type Selector Switch	2 position	Spring return (Momentary)	SPST-NO	—	Black	Z1512-ND	12.70	11.76	10.98	10.20	A22S-2A-10
	2 position	Maintained (On-Off)	SPST-NO	—	Black	Z1513-ND	12.70	11.76	10.98	10.20	A22S-2M-10
	3 position	Spring return (Momentary)	SPST-NO + SPST-NC	—	Black	Z1574-ND	16.33	15.12	14.12	13.11	A22-3A-11
	3 position	Maintained (On-Off)	SPST-NO + SPST-NC	—	Black	Z1575-ND	16.33	15.12	14.12	13.11	A22-3M-11

BC COMPONENTS

Surface Mount Slide Switches CAS Series

Electrical Characteristics: • **Contact Rating:** Non-switching DC50 V 100mA, Switching DC6V, 100mA DC24 V, 25mA, Minimum DC20mV 1µa, • **Contact Resistance:** 50mΩ maximum (1.5mA, 1kHz, 20mV) • **Insulation resistance:** 1000MΩ (DC 100V) minimum • **Dielectric strength:** AC500 V, 50Hz, 60s

Fig. 1

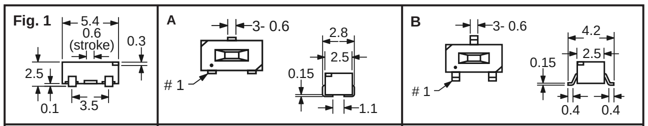


Fig. 2

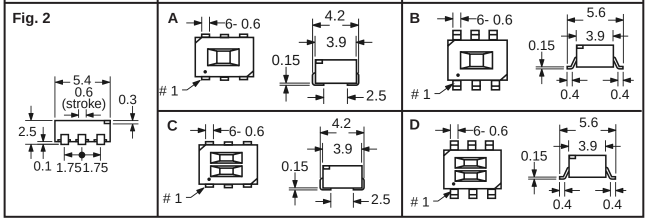


Fig.	No. of Pos.	No. of Poles	Description	Digi-Key Part No.	Cut Tape Price Each 10	100	Tape & Reel Pricing* 1,000	BC Components Part No.
1A	1	1	SPDT, J Hook	CAS120JCT-ND	1.76	1.27	585.00	CAS120TA
1B	1	1	SPDT, Gullwing	CAS120GCT-ND	1.76	1.27	585.00	CAS120TB
2A	1	2	DPDT, J Hook	CAS220JCT-ND	3.38	2.44	1125.00	CAS220TA
2B	1	2	DPDT, Gullwing	CAS220GCT-ND	3.38	2.44	1125.00	CAS220TB
2C	2	1	SPDT 2 pos. J Hook	CASD20JCT-ND	3.38	2.44	1125.00	CASD20TA
2D	2	1	SPDT 2 pos. Gullwing	CASD20GCT-ND	3.38	2.44	1125.00	CASD20TB

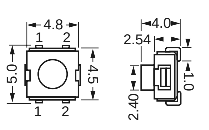
* For Tape & Reel Part No. change CT to TR

BOURNS INC

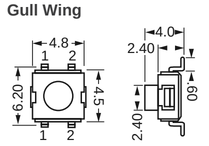
SMD Momentary Key Switches

Electrical Characteristics: • **Contact Rating: Max. Current:** 100mA; **Max. Voltage:** 24V • **Contact Resistance:** 100 milliohms max. • **Insulation Resistance:** 100 megohms min. (DC500V)
General Characteristics: • **Switch Type:** Normally Open • **Operating Temperature Range:** -55°C to +125°C • **Dielectric Strength:** 250 VAC.
Mechanical Characteristics: • **Cycle Life, Loaded:** 10,000 actuations.

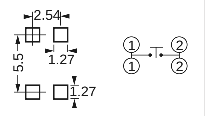
J-Hook



Gull Wing



PCB Layout



Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000	5,000
J-Hook	7914J-000ECT-ND	.95	.84	.71	7914J-000ETR-ND	270.00	473.00	405.00/M
Gull Wing	7914G-000ECT-ND	.95	.84	.71	7914G-000ETR-ND	270.00	473.00	405.00/M

Sealed Selector Switches

Electrical Characteristics: • **Contact Rating: Maximum Current:** 100mA **Maximum Voltage:** 24V • **Contact Timing:** Non-Shorting • **Contact Resistance:** 2 ohms max. • **Insulation Resistance:** 100 megohms min. (DC500V) • **Dielectric Strength:** 250 VAC • ***General Characteristics:*** • **Switch Type:** SPDT • **Operating Temperature Range:** -55°C to +125°C

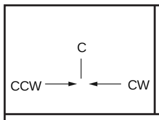
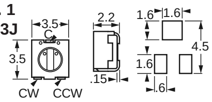


Fig. 1
7813J



• **Mechanical Angle:** 245°C ±15° • **Positions:** 2 • **Adjustment Torque:** 50g. cm max. • **Stop Strength:** 200g. cm min. • **Switching Angle:** 45° ± 5° • **Seal Test:** 85°C Flouriner • **Rotational Life: -051:** 50 cycles; **-023:** 2000 cycles • **Max. Soldering Heat:** 260°C, 5 seconds

Fig. 2
7814G

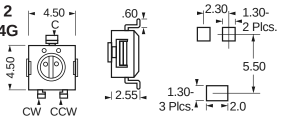
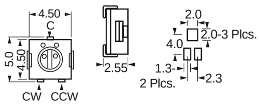


Fig. 3
7814J



• **Mechanical Angle:** 240°C ±15° • **Positions:** 2 • **Adjustment Torque:** 180g. cm max. • **Stop Strength:** 300g. cm min. • **Switching Angle:** 45° ± 5° • **Pushover Strength (S Style):** 2 kilograms min. • **Rotational Life: -051:** 50 cycles **023:** 2000 cycles • **Max Soldering Heat:** 260°C, 10 seconds

Fig.	Size (mm)	Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000
1	3	50	7813J-051ECT-ND	2.10	1.86	1.56	7813J-051ETR-ND	—	1050.00
	3	2000	7813J-023ECT-ND	2.31	2.05	1.72	7813J-023ETR-ND	—	1155.00
2	4	50	7814G-051ECT-ND	2.10	1.86	1.56	7814G-051ETR-ND	600.00	1050.00
	4	2000	7814G-023ECT-ND	2.31	2.05	1.72	7814G-023ETR-ND	660.00	1155.00
3	4	50	7814J-051ECT-ND	2.10	1.86	1.56	7814J-051ETR-ND	600.00	1050.00
	4	2000	7814J-023ECT-ND	2.31	2.05	1.72	7814J-023ETR-ND	660.00	1155.00

NKK® SWITCHES

Illuminated Short Body Push Button Switches

Fig. 1

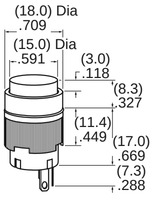
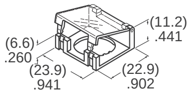


Fig. 2



Dim. in (mm) Inch

YB Series with Panel Seal:

Improved LED illumination offers a bright full face illuminated area for easy identification in both lit and unlit conditions. High density design with less than 1" behind panel depth. Silver contacts with .110" quick connect solder lug terminals. Meets IP65 of IEC529 standards.

Electrical Capacity: 3A @ 125/250V AC or 30V DC.

Dielectric Strength: 1,000V AC min. between contacts; 1,500V AC min. between contacts and case. **Mechanical Life:** 1,000,000 operations min. for momentary: 200,000 operations min. for alternate action. **Electrical Life:** 100,000 operations min.

Total Travel: .118"

Operating Force: 170 grams for single pole: 300 grams for double pole.

Operating Temperature: -25°C through +50°C.

UL recognized and CSA certified.

Fig.	Circuit	Switching Function	Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
YB Series with Panel Seal								
1	SPDT	On - Mom	Red	360-1427-ND	23.37	18.70	14.81	YB15WCKW01-5C-JC
	SPDT	On - Mom	Amber	360-1428-ND	23.37	18.70	14.81	YB15WCKW01-5D-JD
	SPDT	On - Mom	Green	360-1429-ND	23.37	18.70	14.81	YB15WCKW01-5F-JF
	SPDT	On - Mom	Blue	360-1430-ND	29.31	23.45	18.57	YB15WCKW01-6G-JB
	SPDT	On - On	Red	360-1431-ND	25.26	20.21	16.00	YB16WCKW01-5C-JC
1	SPDT	On - On	Amber	360-1432-ND	25.26	20.21	16.00	YB16WCKW01-5D-JD
	SPDT	On - On	Green	360-1433-ND	25.26	20.21	16.00	YB16WCKW01-5F-JF
	SPDT	On - On	Blue	360-1434-ND	31.20	24.96	19.76	YB16WCKW01-6G-JB
	DPDT	On - Mom	Red	360-1435-ND	26.49	21.20	16.78	YB25WCKW01-5C-JC
	DPDT	On - Mom	Amber	360-1436-ND	26.49	21.20	16.78	YB25WCKW01-5D-JD
1	DPDT	On - Mom	Green	360-1437-ND	26.49	21.20	16.78	YB25WCKW01-5F-JF
	DPDT	On - Mom	Blue	360-1438-ND	32.43	25.95	20.54	YB25WCKW01-6G-JB
	DPDT	On - On	Red	360-1439-ND	27.75	22.20	17.58	YB26WCKW01-5C-JC
	DPDT	On - On	Amber	360-1440-ND	27.75	22.20	17.58	YB26WCKW01-5D-JD
	DPDT	On - On	Green	360-1441-ND	27.75	22.20	17.58	YB26WCKW01-5F-JF
1	DPDT	On - On	Blue	360-1442-ND	33.69	26.96	21.34	YB26WCKW01-6G-JB
	SPDT	On - Mom	Red/Green	360-1443-ND	27.15	21.72	17.20	YB15WCKW01-2CF02-JB
	SPDT	On - On	Red/Green	360-1444-ND	29.07	23.26	18.42	YB16WCKW01-2CF02-JB
	DPDT	On - Mom	Red/Green	360-1445-ND	30.30	24.24	19.19	YB25WCKW01-2CF02-JB
	DPDT	On - On	Red/Green	360-1446-ND	31.53	25.23	19.97	YB26WCKW01-2CF02-JB
2	Protective Polycarbonate Guard			360-1008-ND	2.97	2.38	1.89	AT4072

Illuminated Washable Tactile Switches

Fig. 1

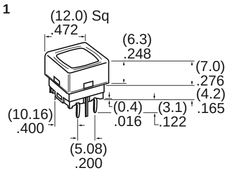
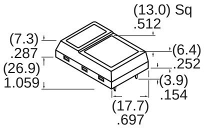


Fig. 2



Dim. in (mm) Inch

JB Series - Illuminated, Low Profile Momentary Switches:

Bright full face LED illumination for extremely long life. Completely sealed for extreme operating environments and automated soldering processes. Higher operating force provides more pronounced operating feel. All lenses come standard with diffused colored lens unless noted as clear. Terminal spacing conforming to .100" PCB grid. Straight, molded-in PC terminals. Single pole, single throw, variety of cap colors. Red, yellow or green LEDs. **Electrical Capacity:** 50mA @ 24V DC, max. **Dielectric Strength:** 250V AC min. **Mechanical Life:** 5,000,000 operations min. **Electrical Life:** 5,000,000 operations min. **Operating Temperature:** -25°C through +70°C. **Total Travel:** .010"

JF Series - Illuminated, Ultra-Thin Momentary Switches:

JF Series are washable tactile switches with crisp tactile feedback. Terminal spacing conforming to .100" PCB grid. Single pole, single throw, variety of cap colors. Red, yellow or green LEDs. **Electrical Capacity:** 50mA @ 24V DC max. **Dielectric Strength:** 250V AC min. **Mechanical LIfe:** 500,000 operations min. **Electrical Life:** 500,000 operations min. **Operating Temperature:** -25°C through +50°C. **Total Travel:** .016".

Fig.	Circuit	LED Color	Cap Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
JB Series Illuminated Low Profile Switches								
1	SPST	Red	Clear Lens,White Diffuser	360-1260-ND	4.62	3.70	2.93	JB15LPC-JB
	SPST	Red	Clear Lens,Red Diffuser	360-1261-ND	4.62	3.70	2.93	JB15LPC-JC
	SPST	Yellow	Clear Lens,White Diffuser	360-1262-ND	4.62	3.70	2.93	JB15LPE-JB
	SPST	Yellow	Clear Lens,Yellow Diffuser	360-1263-ND	4.62	3.70	2.93	JB15LPE-JE
	SPST	Green	Clear Lens,White Diffuser	360-1264-ND	4.62	3.70	2.93	JB15LPF-JB
	SPST	Green	Clear Lens,Green Diffuser	360-1265-ND	4.62	3.70	2.93	JB15LPF-JF
JF Series Illuminated Ultra Thin Switches								
2	SPST	Red	—	360-1266-ND	7.68	6.15	4.87	JF15AP1CC
	SPST	Yellow	—	360-1267-ND	9.24	7.40	5.86	JF15AP1EE
	SPST	Green	—	360-1268-ND	8.01	6.41	5.08	JF15AP1FF

NKK® SWITCHES

Illuminated Low Profile Pushbutton Switches

Snap-action contact mechanism. Alternate action models with latchdown for indication of circuit status. Snap-in mount (W01) with solder lug terminals and silver contacts: PCB mount (G03) with straight PC terminals and gold contacts. **Electrical Capacity: Power Level (code W):** 5A @ 125/250V AC or 5A @ 30V DC **Logic Level (code G):** 0.4VA maximum @ 28V AC/DC maximum. **Dielectric Strength:** 1,000V AC min. between contacts. **Mechanical Life:** 1,000,000 operations min. (momentary); 200,000 operations min. (alternate action). **Electrical Life:** 10,000 operations min. (silver); 200,000 operations min. (gold). **Total Travel: .**091". **Operation Force:** 160 grams for single pole, 260 grams for double pole. **Contact Timing:** Break before make. **Operating Temperature:** -25°C through +50°C.

UB models: **UL recognized and CSA certified;** UB2 models: **UL recognized**. (No UL/CSA mark on switch.)
LED Rating: Red 1.85V @ 20mA, Amber 2.0V @ 20mA, Green 2.25V @ 20mA.

Dim. in (mm) Inch

Fig. 1

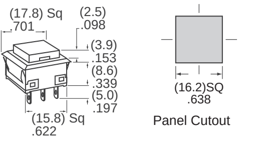


Fig. 2

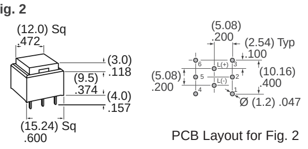


Fig. 3

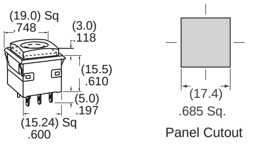


Fig.4

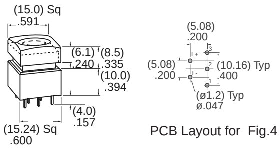


Fig.	Circuit	Switching Function	LED	Cap Description	Digi-Key Part No.	Price Each			NKK Part No.
						1	25	100	
Square Snap-in Mount, Single Element LED (UB Series) — 5A									
1	SPDT	On-Mom	Red	Red Lens - Red Diff.	360-1525-ND	11.91	9.53	7.55	UB15KKW015C-CC
	SPDT	On-Mom	Amber	Amber Lens - Amber Diff.	360-1526-ND	11.91	9.53	7.55	UB15KKW015D-DD
	SPDT	On-Mom	Green	Green Lens - Green Diff.	360-1527-ND	11.91	9.53	7.55	UB15KKW015F-FF
	SPDT	On-On	Red	Red Lens - Red Diff.	360-1528-ND	13.05	10.44	8.27	UB16KKW015C-CC
	SPDT	On-On	Amber	Amber Lens - Amber Diff.	360-1529-ND	13.05	10.44	8.27	UB16KKW015D-DD
	SPDT	On-On	Green	Green Lens - Green Diff.	360-1530-ND	13.05	10.44	8.27	UB16KKW015F-FF
	DPDT	On-Mom	Red	Red Lens - Red Diff.	360-1531-ND	15.12	12.10	9.58	UB25KKW015C-CC
	DPDT	On-Mom	Amber	Amber Lens - Amber Diff.	360-1532-ND	15.12	12.10	9.58	UB25KKW015D-DD
	DPDT	On-Mom	Green	Green Lens - Green Diff.	360-1533-ND	15.12	12.10	9.58	UB25KKW015F-FF
	DPDT	On-On	Red	Red Lens - Red Diff.	360-1534-ND	15.93	12.75	10.09	UB26KKW015C-CC
	DPDT	On-On	Amber	Amber Lens - Amber Diff.	360-1535-ND	15.93	12.75	10.09	UB26KKW015D-DD
	DPDT	On-On	Green	Green Lens - Green Diff.	360-1536-ND	15.93	12.75	10.09	UB26KKW015F-FF
Square PCB Mount, Single Element LED (UB Series) — .4VA									
2	SPDT	On-Mom	Red	Red Lens - Red Diff.	360-1537-ND	11.43	9.15	7.24	UB15SKG035C-CC
	SPDT	On-Mom	Amber	Amber Lens - Amber Diff.	360-1538-ND	11.43	9.15	7.24	UB15SKG035D-DD
	SPDT	On-Mom	Green	Green Lens - Green Diff.	360-1539-ND	11.43	9.15	7.24	UB15SKG035F-FF
	SPDT	On-On	Red	Red Lens - Red Diff.	360-1540-ND	12.60	10.08	7.98	UB16SKG035C-CC
	SPDT	On-On	Amber	Amber Lens - Amber Diff.	360-1541-ND	12.60	10.08	7.98	UB16SKG035D-DD
	SPDT	On-On	Green	Green Lens - Green Diff.	360-1542-ND	12.60	10.08	7.98	UB16SKG035F-FF
	DPDT	On-Mom	Red	Red Lens - Red Diff.	360-1543-ND	15.30	12.24	9.69	UB25SKG035C-CC
	DPDT	On-Mom	Amber	Amber Lens - Amber Diff.	360-1544-ND	15.30	12.24	9.69	UB25SKG035D-DD
	DPDT	On-Mom	Green	Green Lens - Green Diff.	360-1545-ND	15.30	12.24	9.69	UB25SKG035F-FF
	DPDT	On-On	Red	Red Lens - Red Diff.	360-1546-ND	16.14	12.92	10.23	UB26SKG035C-CC
	DPDT	On-On	Amber	Amber Lens - Amber Diff.	360-1547-ND	16.14	12.92	10.23	UB26SKG035D-DD
	DPDT	On-On	Green	Green Lens - Green Diff.	360-1548-ND	16.14	12.92	10.23	UB26SKG035F-FF
Square Snap-in Mount, Multi Element LED (UB2 Series) — 5A									
3	SPDT	On-Mom	Red	Clear Lens - White Diff.	360-1549-ND	16.56	13.25	10.49	UB215KKW015C-1JB
	SPDT	On-Mom	Red	Clear Lens - Red Diff.	360-1550-ND	16.56	13.25	10.49	UB215KKW015C-1JC
	SPDT	On-Mom	Amber	Clear Lens - White Diff.	360-1551-ND	16.56	13.25	10.49	UB215KKW015D-1JB
	SPDT	On-Mom	Amber	Clear Lens - Amber Diff.	360-1552-ND	16.56	13.25	10.49	UB215KKW015D-1JD
	SPDT	On-Mom	Green	Clear Lens - White Diff.	360-1553-ND	16.56	13.25	10.49	UB215KKW015F-1JB
	SPDT	On-Mom	Green	Clear Lens - Green Diff.	360-1554-ND	16.56	13.25	10.49	UB215KKW015F-1JF
	SPDT	On-Mom	Red/Green	Clear Lens - White Diff.	360-1555-ND	22.98	18.39	14.56	UB215KKW01CF-1JB
	SPDT	On-On	Red	Clear Lens - White Diff.	360-1556-ND	17.70	14.16	11.21	UB216KKW015C-1JB
	SPDT	On-On	Red	Clear Lens - Red Diff.	360-1557-ND	17.70	14.16	11.21	UB216KKW015C-1JC
	SPDT	On-On	Amber	Clear Lens - White Diff.	360-1558-ND	17.70	14.16	11.21	UB216KKW015D-1JB
	SPDT	On-On	Amber	Clear Lens - Amber Diff.	360-1559-ND	17.70	14.16	11.21	UB216KKW015D-1JD
	SPDT	On-On	Green	Clear Lens - White Diff.	360-1560-ND	17.70	14.16	11.21	UB216KKW015F-1JB
	SPDT	On-On	Green	Clear Lens - Green Diff.	360-1561-ND	17.70	14.16	11.21	UB216KKW015F-1JF
	SPDT	On-On	Red/Green	Clear Lens - White Diff.	360-1562-ND	24.15	19.32	15.30	UB216KKW01CF-1JB
	DPDT	On-Mom	Red	Clear Lens - White Diff.	360-1563-ND	19.92	15.94	12.62	UB225KKW015C-1JB
	DPDT	On-Mom	Red	Clear Lens - Red Diff.	360-1564-ND	19.92	15.94	12.62	UB225KKW015C-1JC
	DPDT	On-Mom	Amber	Clear Lens - White Diff.	360-1565-ND	19.92	15.94	12.62	UB225KKW015D-1JB
	DPDT	On-Mom	Amber	Clear Lens - Amber Diff.	360-1566-ND	19.92	15.94	12.62	UB225KKW015D-1JD
	DPDT	On-Mom	Green	Clear Lens - White Diff.	360-1567-ND	19.92	15.94	12.62	UB225KKW015F-1JB
	DPDT	On-Mom	Green	Clear Lens - Green Diff.	360-1568-ND	19.92	15.94	12.62	UB225KKW015F-1JF
	DPDT	On-Mom	Red/Green	Clear Lens - White Diff.	360-1569-ND	26.37	21.10	16.71	UB225KKW01CF-1JB
	DPDT	On-On	Red	Clear Lens - White Diff.	360-1570-ND	21.57	17.26	13.67	UB226KKW015C-1JB
	DPDT	On-On	Red	Clear Lens - Red Diff.	360-1571-ND	21.57	17.26	13.67	UB226KKW015C-1JC
	DPDT	On-On	Amber	Clear Lens - White Diff.	360-1572-ND	21.57	17.26	13.67	UB226KKW015D-1JB
	DPDT	On-On	Amber	Clear Lens - Amber Diff.	360-1573-ND	21.57	17.26	13.67	UB226KKW015D-1JD
	DPDT	On-On	Green	Clear Lens - White Diff.	360-1574-ND	21.57	17.26	13.67	UB226KKW015F-1JB
	DPDT	On-On	Green	Clear Lens - Green Diff.	360-1575-ND	21.57	17.26	13.67	UB226KKW015F-1JF
	DPDT	On-On	Red/Green	Clear Lens - White Diff.	360-1576-ND	28.02	22.42	17.75	UB226KKW01CF-1JB
Square PCB Mount, Multi Element LED (UB2 Series) — .4VA									
4	SPDT	On-Mom	Red	Clear Lens - White Diff.	360-1577-ND	17.22	13.78	10.91	UB215SKG035C-1JB
	SPDT	On-Mom	Red	Clear Lens - Red Diff.	360-1578-ND	17.22	13.78	10.91	UB215SKG035C-1JC
	SPDT	On-Mom	Amber	Clear Lens - White Diff.	360-1579-ND	17.22	13.78	10.91	UB215SKG035D-1JB
	SPDT	On-Mom	Amber	Clear Lens - Amber Diff.	360-1580-ND	17.22	13.78	10.91	UB215SKG035D-1JD
	SPDT	On-Mom	Green	Clear Lens - White Diff.	360-1581-ND	17.22	13.78	10.91	UB215SKG035F-1JB
	SPDT	On-Mom	Green	Clear Lens - Green Diff.	360-1582-ND	17.22	13.78	10.91	UB215SKG035F-1JF
	SPDT	On-Mom	Red/Green	Clear Lens - White Diff.	360-1583-ND	23.64	18.92	14.98	UB215SKG03CF-1JB
	SPDT	On-On	Red	Clear Lens - White Diff.	360-1584-ND	18.36	14.69	11.63	UB216SKG035C-1JB
	SPDT	On-On	Red	Clear Lens - Red Diff.	360-1585-ND	18.36	14.69	11.63	UB216SKG035C-1JC
	SPDT	On-On	Amber	Clear Lens - White Diff.	360-1586-ND	18.36	14.69	11.63	UB216SKG035D-1JB
	SPDT	On-On	Amber	Clear Lens - Amber Diff.	360-1587-ND	18.36	14.69	11.63	UB216SKG035D-1JD
	SPDT	On-On	Green	Clear Lens - White Diff.	360-1588-ND	18.36	14.69	11.63	UB216SKG035F-1JB
	SPDT	On-On	Green	Clear Lens - Green Diff.	360-1589-ND	18.36	14.69	11.63	UB216SKG035F-1JF
	SPDT	On-On	Red/Green	Clear Lens - White Diff.	360-1590-ND	24.81	19.85	15.72	UB216SKG03CF-1JB
	DPDT	On-Mom	Red	Clear Lens - White Diff.	360-1591-ND	21.24	17.00	13.46	UB225SKG035C-1JB
	DPDT	On-Mom	Red	Clear Lens - Red Diff.	360-1592-ND	21.24	17.00	13.46	UB225SKG035C-1JC
	DPDT	On-Mom	Amber	Clear Lens - White Diff.	360-1593-ND	21.24	17.00	13.46	UB225SKG035D-1JB
	DPDT	On-Mom	Amber	Clear Lens - Amber Diff.	360-1594-ND	21.24	17.00	13.46	UB225SKG035D-1JD
	DPDT	On-Mom	Green	Clear Lens - White Diff.	360-1595-ND	21.24	17.00	13.46	UB225SKG035F-1JB
	DPDT	On-Mom	Green	Clear Lens - Green Diff.	360-1596-ND	21.24	17.00	13.46	UB225SKG035F-1JF
	DPDT	On-Mom	Red/Green	Clear Lens - White Diff.	360-1597-ND	27.69	22.16	17.54	UB225SKG03CF-1JB
	DPDT	On-On	Red	Clear Lens - White Diff.	360-1598-ND	22.89	18.32	14.50	UB226SKG035C-1JB
	DPDT	On-On	Red	Clear Lens - Red Diff.	360-1599-ND	22.89	18.32	14.50	UB226SKG035C-1JC
	DPDT	On-On	Amber	Clear Lens - White Diff.	360-1600-ND	22.89	18.32	14.50	UB226SKG035D-1JB
	DPDT	On-On	Amber	Clear Lens - Amber Diff.	360-1601-ND	22.89	18.32	14.50	UB226SKG035D-1JD
	DPDT	On-On	Green	Clear Lens - White Diff.	360-1602-ND	22.89	18.32	14.50	UB226SKG035F-1JB
	DPDT	On-On	Green	Clear Lens - Green Diff.	360-1603-ND	22.89	18.32	14.50	UB226SKG035F-1JF
	DPDT	On-On	Red/Green	Clear Lens - White Diff.	360-1604-ND	29.34	23.48	18.59	UB226SKG03CF-1JB

NKK® SWITCHES

Illuminated Push Button Switches

KB Series Miniature Bushing Mount:

The KB push buttons are SPDT or DPDT snap acting contact mechanism, providing long electrical life and pronounced sensitivity. Comes complete with nut. 12mm diameter makes this switch ideal for stacking into a panel using minimal room. LED illumination for long service life.

Electrical Capacity: 1A @ 125/250V AC or 30V DC for silver contacts. **Dielectric Strength:** 1,500V AC min. between contacts and case. **Mechanical Life:** 100,000 operations min. **Electrical Life:** 50,000 operations min. (silver). **Total Travel:** .118". **Operating Temperature:** -25°C through +50°C. **UL recognized & CSA certified** @ 1A rating.

LB Series Standard Size Snap-in Mount:

The push button switch is designed with a single-brak, snap-action contact mechanism. The combined butterfly formation and spring action of the movable contact create the quick-make, quick-break characteristic which limits arcing and prolongs electrical life. The switch is offered with momentary or alternate action circuits in single or double pole configurations.

Electrical Capacity: 3A @ 125/250V AC or 30V DC for silver contacts. **Dielectric Strength:** 1,500 V AC min. between contacts and case. **Mechanical Life:** 1,000,000 operations min for momentary; 200,000 operations min. for maintained. **Electrical Life:** 100,000 operations min. **Total Travel:** .118" **Operating Temperature:** -25°C through +50°C. **UL recognized and CSA certified** @ 3A rating.

Fig.	Circuit	Switching Function	Color	Digi-Key Part No.	Price Each			NKK Part No
					1	25	100	
	KB Series Square Bezel Switches							
1	SPDT	On-Mom	Red	360-1607-ND	12.87	10.30	8.16	KB15SKW01-5C-JC
	SPDT	On-Mom	Amber	360-1608-ND	12.87	10.30	8.16	KB15SKW01-5D-JD
	SPDT	On-Mom	Green	360-1609-ND	12.87	10.30	8.16	KB15SKW01-5F-JF
	SPDT	On-On	Red	360-1610-ND	13.77	11.02	8.73	KB16SKW01-5C-JC
	SPDT	On-On	Amber	360-1611-ND	13.77	11.02	8.73	KB16SKW01-5D-JD
	SPDT	On-On	Green	360-1612-ND	13.77	11.02	8.73	KB16SKW01-5F-JF
	DPDT	On-Mom	Red	360-1613-ND	13.77	11.02	8.73	KB25SKW01-5C-JC
	DPDT	On-Mom	Amber	360-1614-ND	15.84	12.68	10.04	KB25SKW01-5D-JD
	DPDT	On-Mom	Green	360-1615-ND	15.84	12.68	10.04	KB25SKW01-5F-JF
	DPDT	On-On	Red	360-1616-ND	16.68	13.35	10.57	KB26SKW01-5C-JC
	DPDT	On-On	Amber	360-1617-ND	16.68	13.35	10.57	KB26SKW01-5D-JD
	DPDT	On-On	Green	360-1618-ND	16.68	13.35	10.57	KB26SKW01-5F-JF
	KB Series Round Bezel Switches							
2	SPDT	On-Mom	Red	360-1619-ND	12.87	10.30	8.16	KB15CKW01-5C-JC
	SPDT	On-Mom	Amber	360-1620-ND	12.87	10.30	8.16	KB15CKW01-5D-JD
	SPDT	On-Mom	Green	360-1621-ND	12.87	10.30	8.16	KB15CKW01-5F-JF
	SPDT	On-On	Red	360-1622-ND	13.77	11.02	8.73	KB16CKW01-5C-JC
	SPDT	On-On	Amber	360-1623-ND	13.77	11.02	8.73	KB16CKW01-5D-JD
	SPDT	On-On	Green	360-1624-ND	13.77	11.02	8.73	KB16CKW01-5F-JF
	DPDT	On-Mom	Red	360-1625-ND	15.84	12.68	10.04	KB25CKW01-5C-JC
	DPDT	On-Mom	Amber	360-1626-ND	15.84	12.68	10.04	KB25CKW01-5D-JD
	DPDT	On-Mom	Green	360-1627-ND	15.84	12.68	10.04	KB25CKW01-5F-JF
	DPDT	On-On	Red	360-1628-ND	16.68	13.35	10.57	KB26CKW01-5C-JC
	DPDT	On-On	Amber	360-1629-ND	16.68	13.35	10.57	KB26CKW01-5D-JD
	DPDT	On-On	Green	360-1630-ND	16.68	13.35	10.57	KB26CKW01-5F-JF
	KB Series Rectangular Bezel Switches							
3	SPDT	On-Mom	Red	360-1631-ND	12.87	10.30	8.16	KB15RKW01-5C-JC
	SPDT	On-Mom	Amber	360-1632-ND	12.87	10.30	8.16	KB15RKW01-5D-JD
	SPDT	On-Mom	Green	360-1633-ND	12.87	10.30	8.16	KB15RKW01-5F-JF
	SPDT	On-On	Red	360-1634-ND	13.77	11.02	8.73	KB16RKW01-5C-JC
	SPDT	On-On	Amber	360-1635-ND	13.77	11.02	8.73	KB16RKW01-5D-JD
	SPDT	On-On	Green	360-1636-ND	13.77	11.02	8.73	KB16RKW01-5F-JF
	DPDT	On-Mom	Red	360-1637-ND	15.84	12.68	10.04	KB25RKW01-5C-JC
	DPDT	On-Mom	Amber	360-1638-ND	15.84	12.68	10.04	KB25RKW01-5D-JD
	DPDT	On-Mom	Green	360-1639-ND	15.84	12.68	10.04	KB25RKW01-5F-JF
	DPDT	On-On	Red	360-1640-ND	16.68	13.35	10.57	KB26RKW01-5C-JC
	DPDT	On-On	Amber	360-1641-ND	16.68	13.35	10.57	KB26RKW01-5D-JD
	DPDT	On-On	Green	360-1642-ND	16.68	13.35	10.57	KB26RKW01-5F-JF
	KB Accessories							
—	Socket Wrench for Panel Mount KB Series			360-1000-ND	2.34	1.88	1.49	AT108
4	Protective Guard for Square/Round KB Series			360-1004-ND	1.98	1.59	1.26	AT494
	Protective Guard for Rectangular KB Series			360-1006-ND	2.16	1.73	1.37	AT4024
	LB Series Square Bezel Switches							
5	SPDT	On-Mom	Red	360-1643-ND	18.00	14.40	11.40	LB15SKW01-5C-JC
	SPDT	On-Mom	Amber	360-1644-ND	18.00	14.40	11.40	LB15SKW01-5D-JD
	SPDT	On-Mom	Green	360-1645-ND	18.00	14.40	11.40	LB15SKW01-5F-JF
	SPDT	On-On	Red	360-1646-ND	19.98	15.99	12.66	LB16SKW01-5C-JC
	SPDT	On-On	Amber	360-1647-ND	19.98	15.99	12.66	LB16SKW01-5D-JD
	SPDT	On-On	Green	360-1648-ND	19.98	15.99	12.66	LB16SKW01-5F-JF
	DPDT	On-Mom	Red	360-1649-ND	21.30	17.04	13.49	LB25SKW01-5C-JC
	DPDT	On-Mom	Amber	360-1650-ND	21.30	17.04	13.49	LB25SKW01-5D-JD
	DPDT	On-Mom	Green	360-1651-ND	21.30	17.04	13.49	LB25SKW01-5F-JF
	DPDT	On-On	Red	360-1652-ND	23.28	18.63	14.75	LB26SKW01-5C-JC
	DPDT	On-On	Amber	360-1653-ND	23.28	18.63	14.75	LB26SKW01-5D-JD
	DPDT	On-On	Green	360-1654-ND	23.28	18.63	14.75	LB26SKW01-5F-JF
	LB Series Round Bezel Switches							
6	SPDT	On-Mom	Red	360-1655-ND	18.00	14.40	11.40	LB15CKW01-5C-JC
	SPDT	On-Mom	Amber	360-1656-ND	18.00	14.40	11.40	LB15CKW01-5D-JD
	SPDT	On-Mom	Green	360-1657-ND	18.00	14.40	11.40	LB15CKW01-5F-JF
	SPDT	On-On	Red	360-1658-ND	19.98	15.99	12.66	LB16CKW01-5C-JC
	SPDT	On-On	Amber	360-1659-ND	19.98	15.99	12.66	LB16CKW01-5D-JD
	SPDT	On-On	Green	360-1660-ND	19.98	15.99	12.66	LB16CKW01-5F-JF
	DPDT	On-Mom	Red	360-1661-ND	21.30	17.04	13.49	LB25CKW01-5C-JC
	DPDT	On-Mom	Amber	360-1662-ND	21.30	17.04	13.49	LB25CKW01-5D-JD
	DPDT	On-Mom	Green	360-1663-ND	21.30	17.04	13.49	LB25CKW01-5F-JF
	DPDT	On-On	Red	360-1664-ND	23.28	18.63	14.75	LB26CKW01-5C-JC
	DPDT	On-On	Amber	360-1665-ND	23.28	18.63	14.75	LB26CKW01-5D-JD
	DPDT	On-On	Green	360-1666-ND	23.28	18.63	14.75	LB26CKW01-5F-JF
	LB Series Rectangular Bezel Switches							
7	SPDT	On-Mom	Red	360-1667-ND	18.00	14.40	11.40	LB15RKW01-5C-JC
	SPDT	On-Mom	Amber	360-1668-ND	18.00	14.40	11.40	LB15RKW01-5D-JD
	SPDT	On-Mom	Green	360-1669-ND	18.00	14.40	11.40	LB15RKW01-5F-JF
	SPDT	On-On	Red	360-1670-ND	19.98	15.99	12.66	LB16RKW01-5C-JC
	SPDT	On-On	Amber	360-1671-ND	19.98	15.99	12.66	LB16RKW01-5D-JD
	SPDT	On-On	Green	360-1672-ND	19.98	15.99	12.66	LB16RKW01-5F-JF
	DPDT	On-Mom	Red	360-1673-ND	21.30	17.04	13.49	LB25RKW01-5C-JC
	DPDT	On-Mom	Amber	360-1674-ND	21.30	17.04	13.49	LB25RKW01-5D-JD
	DPDT	On-Mom	Green	360-1675-ND	21.30	17.04	13.49	LB25RKW01-5F-JF
	DPDT	On-On	Red	360-1676-ND	23.28	18.63	14.75	LB26RKW01-5C-JC
	DPDT	On-On	Amber	360-1677-ND	23.28	18.63	14.75	LB26RKW01-5D-JD
	DPDT	On-On	Green	360-1678-ND	23.28	18.63	14.75	LB26RKW01-5F-JF
	LB Accessories							
8	Protective Guard for Square LB Series			360-1005-ND	2.82	2.26	1.79	AT499
	Protective Guard for Rectangular LB Series			360-1007-ND	2.82	2.26	1.79	AT4057

Dim. in (mm) Inch

Fig. 1

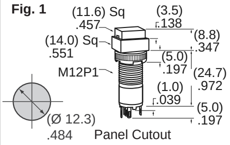


Fig. 2

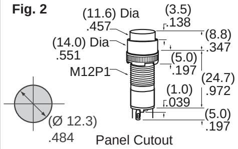


Fig. 3

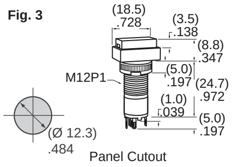
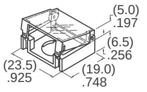


Fig. 4



KB Switch Guard

Fig. 5

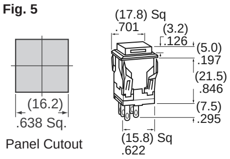


Fig. 6

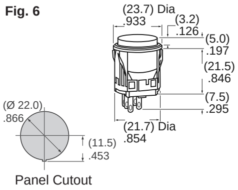


Fig. 7

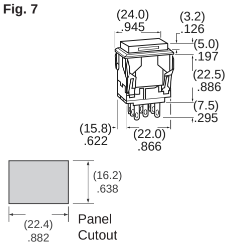
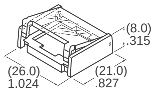
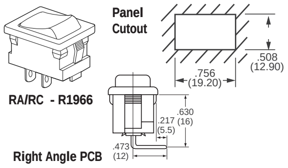


Fig. 8



E-SWITCH® Rocker Switches

RATINGS: RA Series: 125VAC, 10A. RC Series: 125VAC, 15A. R1966 Series: 125VAC, 15A. **Contact Resistance:** 100mΩ max. **Electrical Life:** 10,000 Cycle **Terminals:** .187 Faston (QC) or Solder Term. **Approvals:** UL, CSA, VDE, NEMKO, SEMKO, FEMKO, DEMKO



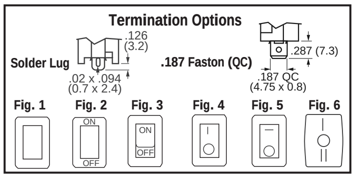


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	RA/RC Series (Black Matte Finish)					
2	SPST, 10A Black Matte W/ Marking	EG1500-ND	1.78	1.61	1.37	RA1066AFC
3	SPST, 10A Black Matte W/ Marking	EG1501-ND	1.78	1.61	1.37	RA1066AFF
4	SPST, 10A Black Matte W/ Marking	EG1502-ND	1.78	1.61	1.37	RA1066AFK
5	SPST, 10A Black Matte W/ Marking	EG1503-ND	1.78	1.61	1.37	RA1066AFH
1	SPST, 10A Black Matte No Marking	EG1504-ND	1.78	1.61	1.37	RA1066AFX
4	DPST, 15A Black Matte W/ Marking	EG1505-ND	2.95	2.66	2.27	RC1083BBLKBLKFF
5	DPST, 15A Black Matte W/ Marking	EG1506-ND	2.95	2.66	2.27	RC1083BBLKBLKGF
1	DPST, 15A Black Matte No Marking	EG1507-ND	2.95	2.66	2.27	RC1083BBLKBLKEF
	R1966 Series (Black Semi-Gloss Finish)					
1	SPST, 15A, Black No Marking .187 QC	EG1508-ND	1.56	1.40	1.20	R1966ABLKBLKEF
1	SPST, 15A, Black No Marking Solder	EG1843-ND	1.94	1.56	1.40	R1966ABLKBLKES
3	SPST, 15A, Black W/ Marking .187 QC Term.	EG1509-ND	1.56	1.40	1.20	R1966ABLKBLKIF
3	SPST, 15A, Black W/ Marking Solder Term.	EG1844-ND	1.94	1.56	1.40	R1966ABLKBLKIS
4	SPST, 15A, Black W/ Marking .187 QC Term.	EG1510-ND	1.56	1.40	1.20	R1966ABLKBLKFF
4	SPST, 15A, Black W/ Marking Solder Term.	EG1845-ND	1.94	1.56	1.40	R1966ABLKBLKFS
5	SPST, 15A, Black W/ Marking .187 QC Term.	EG1511-ND	1.56	1.40	1.20	R1966ABLKBLKGF
5	SPST, 15A, Black W/ Marking Solder Term.	EG1846-ND	1.94	1.56	1.40	R1966ABLKBLKGS
4	SPST, 15A, Lt.Grey W/ Marking .187 QC Term.	EG2580-ND	1.87	1.50	1.35	R1966AGRYGRYFF
5	SPST, 15A,Lt. Grey W/ Marking .187 QC Term.	EG2581-ND	1.87	1.50	1.35	R1966AGRYGRYGF
4	SPST, 15A, White W/ Marking .187 QC Term.	EG2582-ND	1.87	1.50	1.35	R1966AWHTWHTFF
5	SPST, 15A, White W/ Marking .187 QC Term.	EG2583-ND	1.87	1.50	1.35	R1966AWHTWHTGF
6	SPDT, 15A, Black On-Off-On, .187 QC Term.	EG1841-ND	3.21	2.57	2.32	R1966DBLKBLKCF
1	SPST, 15A, Off-Mom .187 QC Term.	EG1512-ND	2.21	2.00	1.70	R1966FBLKBLKEF
1	SPST, 15A, Red LED Illumination, .187 QC	EG1514-ND	2.96	2.67	2.27	R1966ABLKBLKEFRED
1	SPST, 15A, Green LED Illumination .187 QC	EG1515-ND	2.96	2.67	2.27	R1966ABLKBLKEFGRN
1	SPST, 15A, Yellow LED Illumination .187 QC	EG1842-ND	2.96	2.67	2.27	R1966ABLKBLKEFYEL
1	SPST, 15A, Red LED Illum. Solder Term.	EG1858-ND	2.96	2.67	2.27	R1966ABLKBLKESRED
1	SPST, 15A, Green LED Illum. Solder Term.	EG1859-ND	2.96	2.67	2.27	R1966ABLKBLKESGRN
1	SPST, 15A, Yellow LED Illum. Solder Term.	EG1860-ND	2.96	2.67	2.27	R1966ABLKBLKESYEL
	Right Angle PCB Mount					
1	SPST, 15A, Black W/ Led Red, Rt. Angle PCB	EG2577-ND	4.11	3.29	2.96	R1966ABLKBLKERR
4	SPST, 15A, Black W/ Marking, Rt. Angle PCB	EG2579-ND	2.45	1.96	1.77	R1966ABLKBLKFR
5	SPST, 15A, Black W/ Marking, Rt. Angle PCB	EG2578-ND	2.45	1.96	1.77	R1966ABLKBLKGR

Rocker Switches

RATINGS: R5 Series: 10A 250V, 15A 125VAC. R6 Series: 6A 250VAC (UL/CSA)
Contact Resistance: <20mΩ (initial)
Electrical Life: ≥10,000 Cycle
Approvals: UL, CSA, VDE, NEMKO, SEMKO, FIMKO, DEMKO

Fig. 1

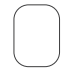


Fig. 2

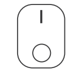


Fig. 3

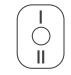
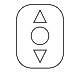
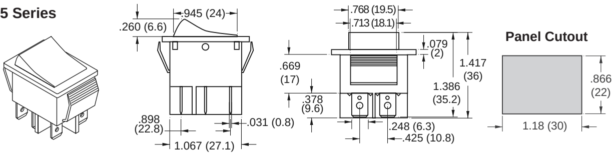


Fig. 4



R5 Series



R6 Series

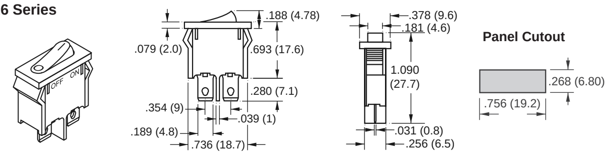


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	R5 Non-Illuminated					
1	DPST, On-Off, 15A Black	EG1527-ND	1.82	1.64	1.40	R5ABLKBLKEF0
1	DPDT, On-On, 15A Black	EG1528-ND	2.27	2.04	1.74	R5CBLKBLKEF0
2	DPST, On-Off, 15A Black	EG1529-ND	1.82	1.64	1.40	R5ABLKBLKFF0
1	DPDT, On-Off-On, 15A Black	EG1539-ND	2.95	2.66	2.26	R5DBLKBLKEF0
3	DPDT, On-Off-On, 15A Black	EG1540-ND	2.95	2.66	2.26	R5DBLKBLKCF0
4	DPDT, On-Off-On, 15A Black	EG1541-ND	2.95	2.66	2.26	R5DBLKBLKHF0
	R5 Illuminated					
1	DPST, 125V Red Illum., 15A Black	EG1530-ND	2.95	2.66	2.26	R5BBLKREDEF1
2	DPST, 125V Red Illum., 15A Black	EG1531-ND	2.95	2.66	2.26	R5BBLKREDFF1
1	DPST, 125V Green Illum., 15A Black	EG1533-ND	2.95	2.66	2.26	R5BBLKGRNEF1
2	DPST, 125V Green Illum., 15A Black	EG1534-ND	2.95	2.66	2.26	R5BBLKGRNFF1
2	DPST, 230V Red Illum., 15A Black	EG1535-ND	2.95	2.66	2.26	R5BBLKREDFF2
2	DPST, 230V Green Illum., 15A Black	EG1536-ND	2.95	2.66	2.26	R5BBLKGRNFF2
2	DPST, 12VDC Red Illum., 15A Black	EG1537-ND	2.95	2.66	2.26	R5BBLKREDFF3
2	DPST, 12VDC Green Illum., 15A Black	EG1538-ND	2.95	2.66	2.26	R5BBLKGRNFF3
	R6 Mini-Rocker					
1	SPST 6A, Black W/out Marking	EG1525-ND	1.67	1.51	1.28	R6ABLKBLKEF
2	SPST 6A, Black With Marking	EG1526-ND	1.67	1.51	1.28	R6ABLKBLKFF

E-SWITCH® Rocker Switches

Rocker Switches and Paddle Switches for mounting in a round hole instead of a rectangular or square punch. Easy to gang together for panels or consoles. Offered in various switching options with white ink stamping or LED illumination. All switches are black in color.

9157B-ND E-Switch Data Book **$2.95**

Fig. 1

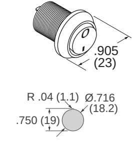


Fig. 2

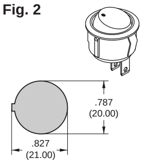


Fig. 3

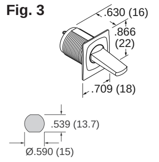


Fig. 4

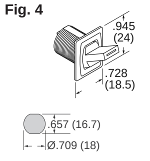


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	Rocker Switches					
1	SPST (On-Off) 10A with I/O Marking	EG1889-ND	3.15	2.84	2.42	RR3130A
	DPDT (On-On) 10A with I/O Marking	EG1890-ND	4.73	4.26	3.63	RR3130B
	SPDT (On-On) 10A with I/O Marking	EG1891-ND	3.50	3.16	2.69	RR3130C
2	SPST (On-Off) 10A Snap-In	EG1542-ND	1.75	1.58	1.35	RR3112A
	Paddle Switches					
3	Mini, SPST (On-Off) 6A	EG1892-ND	2.80	2.53	2.15	RR3402A
	Mini, SPDT (On-On) 6A	EG1893-ND	3.15	2.84	2.42	RR3402C
	Mini, SPDT (On-Off-On) 6A	EG1894-ND	3.41	3.08	2.62	RR3402D
4	Standard, SPST (On-Off) 10A	EG1895-ND	4.34	3.91	3.33	RR3405A
	Red Illum., SPST (On-Off) 10A	EG1896-ND	5.87	5.28	4.50	RR3405AL-RED
	Green Illum., SPST (On-Off) 10A	EG1897-ND	5.87	5.28	4.50	RR3405AL-GRN
	Red Illum., SPDT (On-On) 10A	EG1898-ND	6.73	6.06	5.17	RR3405CL-RED
	Green Illum., SPDT (On-On) 10A	EG1899-ND	6.73	6.06	5.17	RR3405CL-GRN

JUDCO Manufacturing Inc. Plastic Push Button Switches

(Dimensions: inches)

- 3/8-27 Thread
  (Nut is included)
- 4 amp @ 14V
- 1 amp @ 110V

Fig. 1

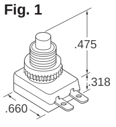


Fig. 2

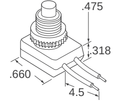


Fig. 3

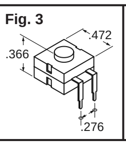


Fig. 4 *NEW!*

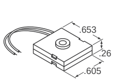


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
	Black Body with Red Button — J188 Series				
1	Push On-Push Off, Solder Terminal	501PB-ND	.94	.80	.72
1	Normally Open, Solder Terminal	502PB-ND	.94	.80	.72
1	Normally Closed, Solder Terminal.......................................	503PB-ND	1.25	1.06	.95
2	Push On-Push Off, 4.5” (114.30mm) Wire Leads.......................	505PB-ND	1.14	.97	.86
2	Normally Open, 4.5” (114.30mm) Wire Leads	506PB-ND	.86	.73	.65
	Black Body with Black Button — J188 Series				
1	Push On-Push Off, Solder Terminal	508PB-ND	.94	.80	.72
1	Normally Open, Solder Terminal	509PB-ND	.94	.80	.72
1	Normally Closed, Solder Terminal.......................................	510PB-ND	.94	.80	.72
2	Push On-Push Off, 4.5” (114.30mm) Wire Leads.......................	504PB-ND	.98	.83	.74
2	Normally Open, 4.5” (114.30mm) Wire Leads	507PB-ND	1.07	.91	.81
	UL Approved with Tactile Feel, Black Body with Black Button — J188 Series				
2	On-Off PB, 4.5” (114.30mm) Wire Leads, UL Approv. at 125VAC at 6A ...	511PB-ND	1.17	1.00	.89
2	On-Off PB, 4.5” (114.30mm) Wire Leads, UL Approv. at 14VDC at 10A...	512PB-ND	1.17	1.00	.89
—	Rubber Waterproof Boot w/molded in nut, Black, for above switches ...	513PB-ND	.56	.47	.42
—	Replacement Nut, Black Plastic (for Fig. 1 & 2)	516PB-ND *NEW!*	.16	.14	.13
	Low Profile PB Switch — J977 Series				
3	On-Off Side Actuated PB, PC Mount Leads, SPST, .3A..................	518PB-ND	1.06	.90	.80
3	On-Off Top Actuated PB, Rt. Angle, PC Mount Leads, SPST, .3A	519PB-ND	1.06	.90	.80
	NEW! Flat-Pac PB Switch — J987 Series NEW!				
4	On-Off Top Actuated PB, Rt. Angle PCB..................................	514PB-ND	1.61	1.36	1.22
4	On-Off Top Actuated PB, 4.5” Wire Leads................................	515PB-ND	1.59	1.35	1.21

Grayhill INC. Miniature Pushbutton Switches

Grayhill's Series 39 switches are compact PCB or panel mounted with a .250" body diameter for compact, low-profile, behind-panel pushbutton applications. Series 39 contacts are all plated with either a gold or silver plating for reliable low level switching. Can be used with or without optional cap. **Specifications:** Series 39 Operations at rated load: 1,000,000 **Contact rating at 28VDC:** 150mA **Bushing/Housing:** Brass, cadmium plated.

Fig. 1

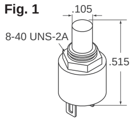


Fig. 2

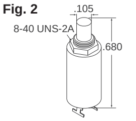


Fig. 3

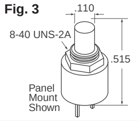


Fig. 4

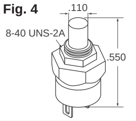


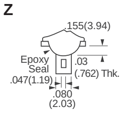
Fig.	Description	Button Color	Digi-Key Part No.	Price Each 1	100	500	Grayhill Part No.
1	PB Mom, SPST-NO, 500mA, Panel Mount	Red	GH1344-ND	3.48	2.62	2.23	39-1
	PB Mom, SPST-NO, 500mA, Panel Mount	Black	GH1345-ND	3.49	2.62	2.24	39-3
2	PB Mom, SPST-NC, 250mA, Panel Mount	Black	GH1346-ND	5.39	4.04	3.45	39-2
3	PB Mom, SPST-NO, 150mA, Panel Mount	Red	GH1350-ND	2.89	2.17	1.86	39-401 Red
	PB Mom, SPST-NO, 150mA, Panel Mount	Black	GH1349-ND	2.89	2.17	1.86	39-401 Black
	PB Mom, SPST-NO, 150mA, Right Angle PCB	Red	GH1351-ND	4.62	3.47	2.96	39-501 Red
	PB Mom, SPST-NO, 150mA, Right Angle PCB	Black	GH1352-ND	4.62	3.47	2.96	39-501 Black
	PB Mom, SPST-NO, 150mA, Right Angle w/Seal	Red	GH1353-ND	4.84	3.63	3.10	39-503 Red
	PB Mom, SPST-NO, 150mA, Right Angle w/Seal	Black	GH1354-ND	4.84	3.63	3.10	39-503 Black
4	PB Mom, SPST-NO, 500mA, Panel Mount	Red	GH1347-ND	6.52	4.89	4.18	39-351 Red
	PB Mom, SPST-NO, 500mA, Panel Mount	Black	GH1348-ND	6.52	4.89	4.18	39-351 Black
	PB Cap, Red, .25” Diameter for all Series 39 Above		GH1355-ND	.36	.27	—	30B1012-5
	PB Cap, Black, .25” Diameter for all Series 39 Above		GH1357-ND	.36	.27	—	30B1012-9
	PB Cap, White, .25” Diameter for all Series 39 Above		GH1356-ND	.39	.30	—	30B1012-8

Slide Switches

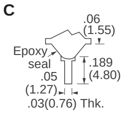
Termination Options

9138B-ND	ITT Industries Switch Data Book........................	**$2.95**

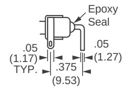
Z



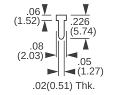
C



A



02



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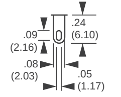
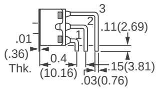


AV2



X **Actuator**

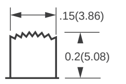


Fig. 1

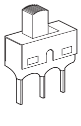


Fig. 2

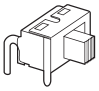


Fig. 3

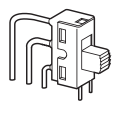


Fig. 4

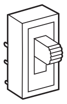


Fig. 5

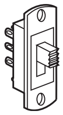
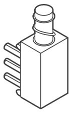


Fig. 6



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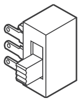
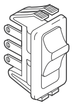


Fig. 8



Snap-In

Fig. 9

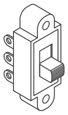


Fig. 10

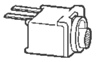
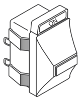


Fig. 11



Snap-In

Fig. 12

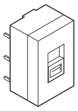


Fig. 13

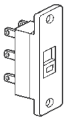
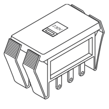


Fig. 14



Snap-In

Fig. 15

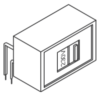


Fig. 16

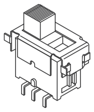
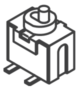


Fig. 17



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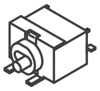


Fig. 19

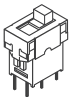


Fig. 20

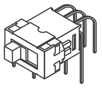
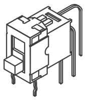


Fig. 21



1000 Series:

Specifications: • Contact Rating: B contact material: 0.4VA max. @ 20 V AC or DC max. Q contact material: 6 Amps @ 120 V AC or 28 V DC, 3 Amps @ 250 V AC. • Electrical Life: 100,000 make-and-break cycles at full load with contact material B: 40,000 cycles with Q, contact material. • Operating temperature: -30°C to +65°C

Materials: • Case: diallyl phthalate (DAP), (UL94V-O) • Housing: Stainless steel end • Contacts: B contact material: copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated • Terminal Seal: Epoxy

L Series:

Specifications: • Contact Rating: (LXOX, LX1X Models):Q contact material: 4 Amps @ 125 V AC or 28 V DC; 2 Amps @ 250 V AC; 0.5 Amp 125V DC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load

Materials: • Housing: 6/6 nylon (UL94V-2), black • Contacts: Copper, silver plated

S Series:

Specifications: • Contact Rating: (S6XX Models:) Q contact material: 12 Amps @ 125 V AC; 6 Amps @ 250 V AC; 1 Amp @ 125 V DC (UL/CSA) S8XX models 15 Amps @ 125 V AC; 6 Amps @ 250 V AC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load

Materials: • Housing: 6/6 nylon (UL94V-2), black • Actuator: 6/6 nylon (UL94V-2), black • Contacts: Copper, silver plated • Terminal Seal: Epoxy

LP Series:

Specifications: • Contact Rating: (LPOX, LP2X Models:) Q contact material: 6 Amps @ 125 V AC or 28 V DC; 3 Amps @ 250 V AC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load

Materials: • Housing: 6/6 nylon (UL94V-2), black • Contacts: Copper, silver plated • Terminal Seal: Epoxy

GS Series:

Specifications: • Contact Rating: B contact material: 0.4 VA max. @ 20 V AC or DC max. • Mechanical and Electrical Life: 40,000 make-and-brake cycles at full load • Storage and Operating Temperature: -30°C to +85°C

Materials: • Housing and Base: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-O) • Movable Contact: Copper with gold plate over nickel plate • Terminal Seal: Epoxy. All terminals insert molded

V Series:

Specifications: • Contact Rating: V contact material: 10.1 Amps @ 125 V AC; 4 Amp @ 28 V DC • Electrical Life: 10,000 make-and-break cycles at full load. • Operating temperature: -30°C to +85°C

Materials: • Housing: 6/6 nylon (UL94V-2), black • Actuator: Glass filled polyester • Contacts: Copper, silver plated • Terminal Seal: Epoxy

ES Series:

Specifications: • Contact Rating: B contact material: 0.4 VA max. @ 20 V AC or DC max. • Mechanical and Electrical Life: 40,000 make-and-brake cycles at full load • Operating temperature: -30°C to +85°C

Materials: • Housing and Base: Nylon (UL94V-O) • Terminals: Copper alloy with tin-lead alloy over nickel plate • Base and Terminal Seal: Epoxy

Fig.	Circuit	Switching Function	Options (see diag.) Actu-ator	Termi-nation	Contact Mat'l	Dimensions Inches (mm) L x W x D	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
1000 Series											
1	SPDT	On-On	X	C	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5000-ND	3.96	3.17	2.51	1101M2S3CBE2
1	SPDT	On-On	X	C	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5001-ND	3.96	3.17	2.51	1101M2S3CQE2
1	DPDT	On-On	X	C	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5002-ND	7.71	6.17	4.89	1201M2S3CBE2
1	DPDT	On-On	X	C	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5003-ND	7.71	6.17	4.89	1201M2S3CQE2
1	SPDT	On-On	X	Z	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5004-ND	3.84	3.08	2.44	1101M1S3ZQE2
2	SPDT	On-On	X	A	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5005-ND	4.53	3.63	2.87	1101M2S3ABE2
2	SPDT	On-On	X	A	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5006-ND	4.53	3.63	2.87	1101M2S3AQE2
3	SPDT	On-On	X	AV2	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5007-ND	4.53	3.63	2.87	1101M2S3AV2BE2
3	SPDT	On-On	X	AV2	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5008-ND	4.53	3.63	2.87	1101M2S3AV2QE2
L/S Series											
4	DPDT	On-Off	X	02	Q	.76 x .43 x .36 (19.30 x 10.80 x 9.09)	CKC5100-ND	2.16	1.87	1.57	L202011MSO2Q
5	DPST	On-Off	X	03	Q	.76 x .43 x .36 (19.30 x 10.80 x 9.09)	CKC5101-ND	2.02	1.75	1.48	L201011SSO3Q
6	DPDT	Mom (N/O)	—	02	Q	.76 x .42 x .33 (19.30 x 10.79 x 8.38)	CKC5104-ND	4.98	3.99	3.16	L212132MV02Q
7	SPDT	On-On	—	02	Q	.76 x .42 x .33 (19.30 x 10.79 x 8.38)	CKC5102-ND	1.83	1.47	1.16	L102021ML04Q
7	DPDT	On-On	—	02	Q	.76 x .42 x .33 (19.30 x 10.79 x 8.38)	CKC5103-ND	3.66	2.93	2.32	L202021MA04Q
5	DPDT	On-On	X	03	Q	1.38 x .53 x .28 (34.93 x 13.46 x 7.11)	CKC5013-ND	2.97	2.38	1.89	S602031SS03Q
9	DPDT	On-On	X	03	Q	1.42 x .53 x .64 (36.07 x 13.46 x 16.13)	CKC5014-ND	3.30	2.64	2.09	S602031TS03Q
8	DPDT	On-On	Blk	03	Q	1.24 x .68 x .68 (31.50 x 17.27 x 17.27)	CKC5105-ND	3.15	2.52	2.00	S802C21S207Q
Snap In — LP Series											
11	SPDT	On-On	Blk	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5015-ND	3.24	2.60	2.06	LP02C21T203DQ
11	DPDT	On-On	Blk	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5016-ND	4.23	3.39	2.68	LP22C21T203DQ
11	SPDT	On-On	Red	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5017-ND	3.42	2.74	2.17	LP02C31T203DQ
11	DPDT	On-On	Red	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5018-ND	4.41	3.53	2.80	LP22C31T203DQ
Ultra Miniature — GS Series											
10	SPDT	On-On	—	C	B	.28 x .16 x .28 (7.01 x 4.06 x 7.06)	CKN5009-ND	5.76	4.61	3.65	GS01MCKE
10	SPST	On-Off	—	C	B	.28 x .16 x .28 (7.01 x 4.06 x 7.06)	CKN5010-ND	6.30	5.04	3.99	GS02MCKE
17	SPST	On-Off	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9024CT-ND	9.62	8.29	6.66	GS02MSV1KE(T&R)
17	SPST	On-Off	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9024TR-ND	3196.80/600			GS02MSV1KE(T&R)
18	SPDT	On-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9025CT-ND	7.25	6.25	5.02	GS01MSAKE(T&R)
18	SPDT	On-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9025TR-ND	2408.40/600			GS01MSAKE(T&R)
18	SPST	On-Off	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9026CT-ND	7.83	6.75	5.43	GS02MSAKE(T&R)
18	SPST	On-Off	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9026TR-ND	2602.80/600			GS02MSAKE(T&R)
V Series — 115V/230V Volt Select											
12	DPDT	On-On	—	C	V	1.03 x .65 x .49 (26.16 x 16.51 x 12.57)	CKC3001-ND	4.53	3.63	2.87	V80212MS02Q
13	DPDT	On-On	—	03	V	1.61 x .65 x .49 (41.00 x 16.51 x 12.57)	CKC3002-ND	4.53	3.63	2.87	V80212SS05Q
14	DPDT	On-On	—	03	V	1.3 x .75 x .54 (33.02 x 19.05 x 13.72)	CKC3005-ND	4.89	3.92	3.10	V80212S205Q
15	DPDT	On-On	—	C	V	1.03 x .65 x .63 (26.16 x 16.51 x 16.00)	CKC3004-ND	4.07	3.52	2.96	V802-12MA08Q
ES Series — Fully Sealed Miniature Slide Switches											
16	SPDT	On-On	X	SMT	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1254-ND	5.67	4.54	3.60	ES01MSAKE
16	SPST	On-Off	X	SMT	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1255-ND	6.42	5.14	4.07	ES02MSAKE
16	SPDT	On-Off-On	X	SMT	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1256-ND	5.85	4.68	3.71	ES03MSAKE
19	SPDT	On-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1245-ND	5.58	4.47	3.54	ES01MCKE
19	SPST	On-Off	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1246-ND	6.15	4.92	3.90	ES02MCKE
19	SPDT	On-Off-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1247-ND	5.76	4.61	3.65	ES03MCKE
19	DPDT	On-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1248-ND	7.32	5.86	4.64	ES21MCKE
19	DPST	On-Off	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1249-ND	8.04	6.44	5.10	ES22MCKE
19	DPDT	On-Off-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1250-ND	7.53	6.03	4.77	ES23MCKE
20	SPDT	On-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1251-ND	6.27	5.02	3.98	ES01MAKE
20	SPST	On-Off	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1252-ND	6.81	5.45	4.32	ES02MAKE
20	SPDT	On-Off-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1253-ND	6.42	5.14	4.07	ES03MAKE
20	DPDT	On-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1267-ND	7.98	6.39	5.06	ES21MAKE
20	DPST	On-Off	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1268-ND	8.64	6.92	5.48	ES22MAKE
20	DPDT	On-Off-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1269-ND	8.22	6.58	5.21	ES23MAKE
21	SPDT	On-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1270-ND	6.48	5.19	4.11	ES01MAVKE
21	SPST	On-Off	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1271-ND	6.81	5.45	4.32	ES02MAVKE
21	SPDT	On-Off-On	X	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1272-ND	6.66	5.33	4.22	ES03MAVKE

E-SWITCH®

Slide Switches - EG Series

9157B-ND E-Switch Data Book **$2.95**

Specifications:
- **Initial Contact Resistance:** Less than 20 milliohms
- **Withstand Voltage:** 500V AC for 1 minute between any terminal and frame
- **Operating Temp.:** -20°C to +70°C
- **Life:** 10,000 cycles minimum
- **Contact:** Silver plated copper alloy
- **Timing:** Non-shorting contacts

Dimensions: inches (mm)

Fig. 1

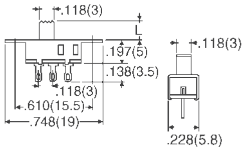


Fig. 2

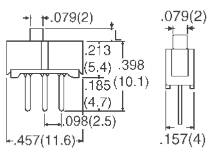
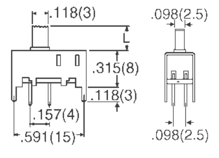


Fig. 3



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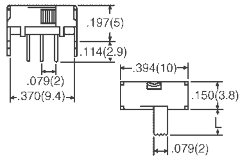

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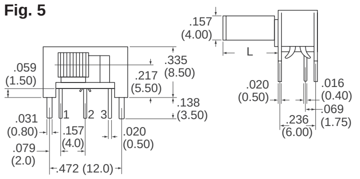

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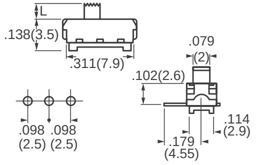

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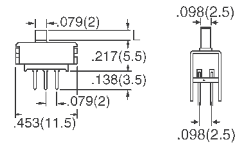

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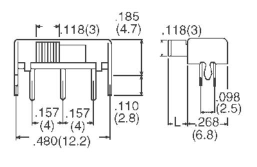


Fig. 9

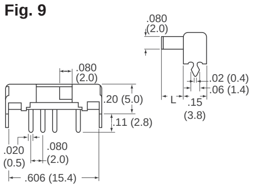


Fig. 10

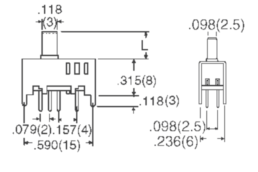


Fig. 11

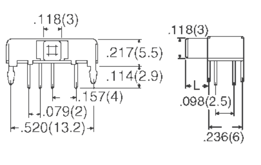


Fig. 12

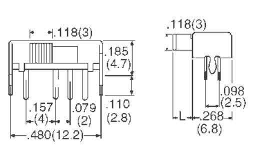


Fig. 13

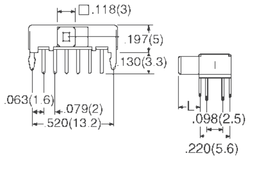


Fig. 14

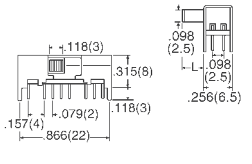


Fig. 15

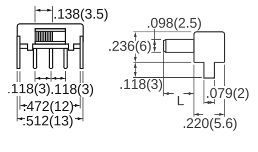


Fig. 16

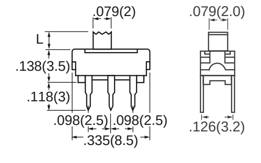


Fig. 17

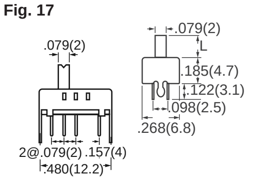


Fig. 18

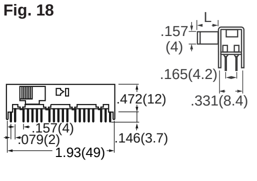


Fig. 19

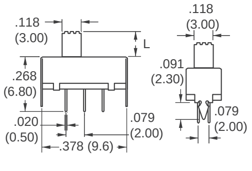


Fig. 20

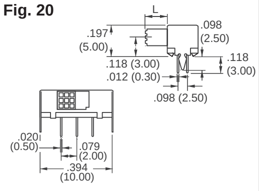


Fig. 21

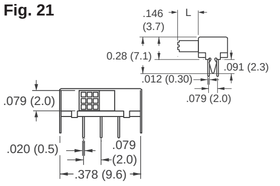


Fig. 22

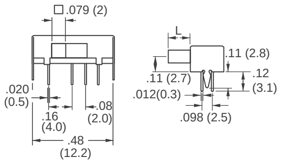


Fig. 23

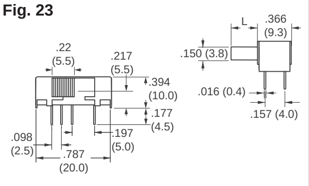


Fig. 24 – SMT

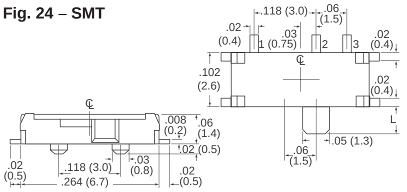
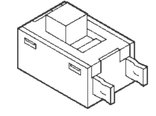


Fig.	Description	Rating	Circuit	"L" Dim. In. (mm)	Switching Function	Terminal	Digi-Key Part No.	Price Each 1	10	100	250	E-Switch Part No.
1	Straight	0.2A @ 30VDC	SPDT	.16 (4)	On-On	Solder Lugs	EG1901-ND	.71	.64	.55	.46	EG1201
1	Straight	0.2A @ 30VDC	SPDT	.22 (5.5)	On-On	Solder Lugs	EG1902-ND	.71	.64	.55	.46	EG1201A
2	Straight	0.2A @ 30VDC	SPDT	.08 (2)	On-On	PC Board	EG1903-ND	.71	.64	.55	.46	EG1218
3	Straight	0.2A @ 30VDC	DPDT	.12 (3)	On-On	PC Board	EG1904-ND	.98	.88	.75	.62	EG2201
3	Straight	0.2A @ 30VDC	DPDT	.24 (6)	On-On	PC Board	EG1905-ND	.98	.88	.75	.62	EG2201A
4	Right Angle	0.2A @ 30VDC	SPDT	.20 (5)	On-On	PC Board	EG1906-ND	.71	.64	.55	.46	EG1213
5	Right Angle	0.5A @ 15VDC	SPDT	.35 (9)	On-On	PC Board	EG2585-ND	.82	.74	.63	.52	EG1224
6	Right Angle	0.2A @ 30VDC	SPDT	.08 (2)	On-On	PC Board	EG1847-ND	1.11	.89	.81	.69	EG1270
7	Straight	0.2A @ 30VDC	DPDT	.08 (2)	On-On	PC Board	EG1907-ND	.98	.88	.75	.62	EG2209
7	Straight	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1908-ND	1.16	1.04	.89	.74	EG2209A
8	Right Angle	0.2A @ 30VDC	DPDT	.14 (3.5)	On-On	PC Board	EG1909-ND	.89	.80	.69	.57	EG2215
9	Right Angle	0.2A @ 30VDC	SP3T	.20 (5)	On-On-On	PC Mount	EG2485-ND	.82	.74	.63	.52	EG1313
10	Straight	0.2A @ 30VDC	DP3T	.12 (3)	On-On-On	PC Board	EG1910-ND	.89	.80	.69	.57	EG2301
10	Straight	0.2A @ 30VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1944-ND	.90	.81	.69	.57	EG2301A
11	Right Angle	0.1A @ 12VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1911-ND	.93	.84	.72	.60	EG2308
11	Right Angle	0.1A @ 30VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1945-ND	.90	.81	.69	.57	EG2308A
12	Right Angle	0.2A @ 30VDC	DP3T	.14 (3.5)	On-On-On	PC Board	EG1913-ND	.98	.88	.75	.62	EG2315
13	Right Angle	0.2A @ 30VDC	4PDT	.24 (6)	On-On	PC Board	EG1949-ND	1.47	1.32	1.13	.93	EG4208A
13	Right Angle	0.2A @ 30VDC	4PDT	.16 (4)	On-On	PC Board	EG1914-ND	1.60	1.45	1.23	1.02	EG4208
14	Right Angle	0.2A @ 30VDC	4P3T	.20 (5)	On-On-On	PC Board	EG1915-ND	1.78	1.61	1.37	1.13	EG4319
15	Right Angle	0.2A @ 30VDC	SPDT	.12 (3)	On-On	PC Board	EG1916-ND	.71	.64	.55	.46	EG1206
15	Right Angle	0.2A @ 30VDC	SPDT	.24 (6)	On-On	PC Board	EG1917-ND	.71	.64	.55	.46	EG1206A
16	Straight	0.3A @ 30VDC	1C-2P	.08 (2)	On-On	PC Board	EG1918-ND	.80	.72	.62	.51	EG1271
16	Straight	0.3A @ 30VDC	1C-2P	.16 (4)	On-On	PC Board	EG1919-ND	.80	.72	.62	.51	EG1271A
17	Straight	0.2A @ 30VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1920-ND	1.07	.96	.82	.68	EG2305
17	Straight	0.2A @ 30VDC	DP3T	.08 (2)	On-On-On	PC Board	EG1921-ND	1.07	.96	.82	.68	EG2305A
18	Right Angle	0.3A @ 30VDC	8P4T	.40 (10)	On-On	PC Board	EG1928-ND	3.49	3.14	2.68	2.21	EG8402
19	Straight	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1940-ND	.82	.74	.63	.52	EG2207
20	Right Angle	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1941-ND	.82	.74	.63	.52	EG2208
20	Right Angle	0.2A @ 30VDC	DPDT	.24 (6)	On-On	PC Board	EG1942-ND	.82	.74	.63	.52	EG2208A
21	Right Angle	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1943-ND	.82	.74	.63	.52	EG2211
21	Right Angle	0.2A @ 30VDC	DPDT	.08 (2)	On-On	PC Mount	EG2486-ND	.82	.74	.63	.52	EG2211A
22	Right Angle	0.2A @ 30VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1946-ND	.76	.69	.59	.49	EG2310
22	Right Angle	0.2A @ 30VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1947-ND	.86	.77	.66	.55	EG2310A
23	Right Angle	0.2A @ 30VDC	DP3T	.28 (7)	On-On-On	PC Board	EG1948-ND	.90	.81	.69	.57	EG2322
24	Right Angle	0.1A @ 30VDC	SPDT	.06 (1.5)	On-On	SMT Term.	EG2586CT-ND	1.43	1.15	1.03	.88	EG1257
24	Right Angle	0.1A @ 30VDC	SPDT	.06 (1.5)	On-On	SMT Term.	EG2586TR-ND		1760.22/3,300			EG1257

CW INDUSTRIES Slide Switches

Made in U.S.A.

Fig. 1

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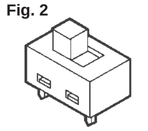
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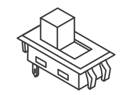
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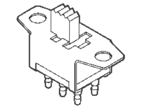
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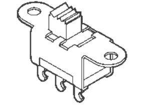
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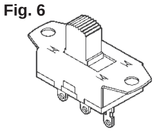
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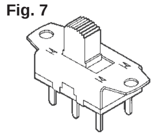
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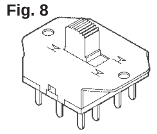
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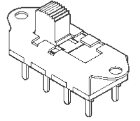
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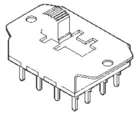
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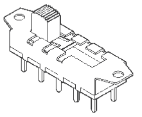
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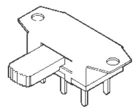
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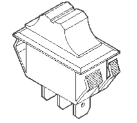
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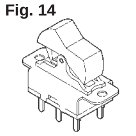
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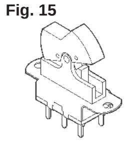
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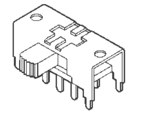
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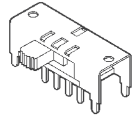
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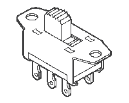
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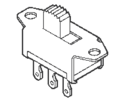
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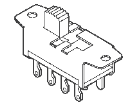
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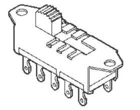
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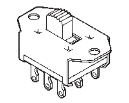
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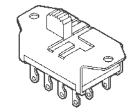
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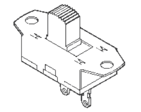
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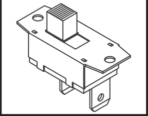
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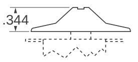


CW Industries slide switches became popular with the industrial explosion after World War I. Thousands of consumer products have used CW Industries slide switches for applications such as: radios, TVs, appliances, and automotive. Aircraft, telephones, and marine equipment use CW Industries slide switches for both power switching and low level switching. Available in both solder eyelet versions for hand soldering or pc mount terminals for direct mounting. All slide switch actuators and buttons are black nylon 6/6. **MATERIALS: Buttons:** Type 6/6 nylon, black; **Moving Contact:** Copper; **Moving Contact Plating:** Silver; **Terminals:** Copper; **Terminal Plating:** Silver. **High Voltage Breakdown:** Min. of 1000 volts RMS, 60 Hz for one minute between parts of opposite polarity. **Contact Resistance:** Less than 0.01 ohm at 20 milliamperes dc. **LIFE CYCLING (no load):** Switches will be operative after 10,000 (min.) cycles at the rate of 10 cycles per minute. **LIFE CYCLING (load):** Switches will be operative after 6,000 (minimum) cycles at the rate of 10 cycles per minute at rated load. **APPROVAL LISTING:** UL/CSA

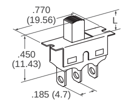
Digi-Key® Slide Switches Kit

Assortment of switches denoted. Includes notebook style storage case and bin storage guide.

*** SW-KIT-ND** 140 total pieces **$69.95**

Fig.	Circuit	Volts		Curr. Rtg. (A)		Dimensions - In. (mm)	Description	Digi-Key	Price Each				CW Industries
		DC	AC	DC	AC	L x W x H		Part No.	1	10	100	500	Part No.
1	SPST	125	125	.5	.5	.250 x .320 x .620 (6.35 x 8.13 x 15.75)	Vertical Mount PC Switch	SW100-ND	.76	.70	.61	.52	G105-0513
2	SPDT	125	125	.5	.5	.505 x .305 x .515 (12.83 x 7.75 x 13.08)	Horizontal Mount PC Switch	SW101-ND*	1.23	1.13	.99	.84	G107-0513
3	SPST	125	125	.5	.5	.705 x .385 x .395 (17.91 x 9.78 x 10.03)	Panel Mount Snap-In Switch	SW331-ND	1.64	1.48	1.11	.74	G-107-SI-0005
3	SPDT	125	125	.5	.5	.705 x .385 x .395 (17.91 x 9.78 x 10.03)	Panel Mount Snap-In Switch	SW332-ND	1.84	1.65	1.24	.83	G-107-SI-0511
4	DPDT	125	125	.5	.5	.762 x .312 x .558 (19.35 x 7.92 x 14.17)	Micro-Miniature Switch	SW102-ND*	.83	.77	.67	.57	GS113-0512
5	SPDT	125	125	.5	.5	.750 x .220 x .458 (19.05 x 5.59 x 11.63)	Micro-Miniature Switch	SW103-ND*	.67	.62	.54	.46	GS115-0511
6	SPDT	125	125	.5	6.0	1.360 x .550 x .966 (34.54 x 13.97 x 24.54)	Standard Size Switch Eyelet Terminal	SW104-ND*	.37	.35	.30	.26	GF624-6014
6	SPDT	125	125	.5	6.0	1.360 x .550 x .966 (34.54 x 13.97 x 24.54)	Standard Size Switch (Off-Mom)	SW338-ND	1.81	1.63	1.22	.82	G-1132-0003
7	DPDT	125	125	.5	11	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Standard Size Switch PCB Mount	SW105-ND*	.71	.65	.57	.48	GF1126-1110
7	DPDT	125	125	.5	11	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Standard Size Switch Eyelet Terminal	SW333-ND	.94	.85	.64	.43	GF-1126-0033
8	4PDT	125	125	.5	6.0	1.360 x 1.000 x .767 (34.54 x 25.40 x 19.48)	Standard Size Switch PCB Mount	SW106-ND*	1.20	1.11	.96	.82	GF642-6010
9	DP-3Pos	125	125	.5	11	1.656 x .550 x .757 (42.06 x 13.97 x 19.23)	Standard Size Switch PCB Mount	SW107-ND*	.86	.79	.69	.59	G1128S-1110
9	DP-3Pos	125	125	.5	11	1.656 x .550 x .664 (42.06 x 13.97 x 16.87)	Standard Size Switch Eyelet Terminal	SW334-ND	1.15	1.03	.77	.52	G1128S-0055
9	SP-3Pos	125	125	.5	11	1.656 x .550 x .664 (42.06 x 13.97 x 16.87)	Standard Size Switch (On-Off-Mom)	SW337-ND	1.48	1.33	1.00	.67	G-633S-0000
10	4P-3Pos	125	125	.5	6.0	1.656 x 1.000 x .767 (42.06 x 25.40 x 19.48)	Standard Size Switch PCB Mount	SW108-ND	1.55	1.43	1.24	1.06	G660S-6010
11	DP-4Pos	125	125	.5	11	1.968 x .560 x .757 (49.99 x 14.22 x 19.23)	Standard Size Switch PCB Mount	SW109-ND	1.03	.95	.83	.70	G1138S-1110
11	DP-4Pos	125	125	.5	11	1.968 x .560 x .757 (49.99 x 14.22 x 19.23)	Standard Size Switch Eyelet Terminal	SW335-ND	1.38	1.24	.93	.62	G1138S-0048
12	DPDT	125	125	.5	3.0	1.360 x .550 x .610 (34.54 x 13.97 x 15.49)	Side Actuated Switch PCB Mount	SW110-ND	.50	.46	.40	.34	GG350-3010
13	SPDT	125	125	.5	13	1.235 x .680 x 1.397 (31.37 x 17.27 x 35.48)	Pop-in Mount Slide Switch	SW111-ND	.73	.68	.59	.50	G2012-1315
14	DPDT	125	125	.5	6.0	1.375 x .550 x 1.167 (34.93 x 13.97 x 29.64)	Rocker Switch PCB Mount	SW112-ND*	1.38	1.28	1.11	.95	GR5-626-6010
15	DPDT	125	125	.5	11	1.562 x .550 x 1.417 (39.67 x 13.97 x 35.99)	Rocker Switch PCB Mount	SW113-ND*	1.63	1.50	1.30	1.11	GR29-1126-1110
16	DPDT	125	125	.5	3.0	1.000 x .404 x .484 (25.40 x 10.26 x 12.29)	Miniature Side Actuated Switch PCB	SW114-ND*	.82	.76	.66	.56	GPI152-3013
17	DP-3Pos	125	125	.5	3.0	1.170 x .404 x .484 (29.72 x 10.26 x 12.29)	Miniature Side Actuated Switch PCB	SW115-ND*	1.00	.92	.80	.68	GPI154-3013
18	DPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Miniature Slide Switch Eyelet Terminal	SW116-ND	.55	.51	.44	.38	GF126-3011
18	DPDT	125	125	.5	3.0	.628 x .400 x .735 (15.95 x 10.16 x 18.67)	Miniature Slide Switch w/o Mnt. Ears, PC Mnt.	SW342-ND	1.44	1.29	.97	.65	GF-126-0159
18	DPDT	125	125	.5	3.0	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Slide Switch, PC Mount	SW619-ND *NEW!*	1.15	1.03	.78	.52	GF-126-0147
19	SPDT	125	125	.5	.5	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Spring Return Switch Eyelet Terminal	SW118-ND*	.74	.68	.59	.50	G133-3011
20	DP-3Pos	125	125	.5	3.0	1.190 x .400 x .745 (30.23 x 10.16 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW119-ND*	.69	.64	.56	.47	G128S-3011
21	DP-4Pos	125	125	.5	3.0	1.377 x .400 x .745 (34.98 x 10.16 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW120-ND	1.05	.97	.85	.72	G141S-3011
22	3PDT	125	125	.5	3.0	1.000 x .567 x .745 (25.40 x 14.40 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW121-ND*	.94	.86	.75	.64	GF161-3011
23	3P-3Pos	125	125	.5	3.0	1.190 x .567 x .745 (30.23 x 14.40 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW122-ND	1.17	1.08	.94	.80	G168S-3011
23	3P-3Pos	125	125	.5	3.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Standard Size Switch Eyelet Terminal	SW336-ND	1.42	1.28	.96	.64	G-368S-0000
23	3P-3Pos	125	125	.5	3.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Slide Switch, PC Mount	SW618-ND *NEW!*	1.44	1.30	.97	.65	G-368S-0001
23	3P-3Pos	125	125	.5	6.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Slide Switch Eyelet Terminal	SW617-ND *NEW!*	1.71	1.54	1.15	.77	G-668S-0000
24	SPST	125	125	.5	11	1.360 x .550 x .654 (34.54 x 13.97 x 16.61)	Standard Size Switch Eyelet Terminal	SW148-ND	.73	.68	.59	.50	GF-1123-0009
25	SPST	—	125	—	16	1.360 x .550 x .654 (34.54 x 13.97 x 16.61)	Standard Size Switch .250" QC Terminal	SW616-ND	.70	.63	.47	.32	GF-1623-0001
26	Black Topper Button for SW105-ND, SW107-ND, SW110-ND, SW148-ND, SW333-ND, SW337-ND and SW334-ND							SW149-ND	.20	.19	.16	.14	G-02-072

E-SWITCH® Slide Switches

Fig. 1


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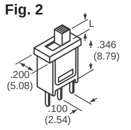


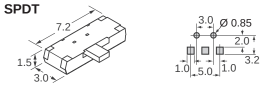
• With mounting ears

Fig.	Circuit	Rating	Dim. L In. (mm)	Switch Function	Terminal	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
					500 Series					
1	SPDT	5A @ 120VAC	.152 (3.86)	On-On	Solder Lug	EG2473-ND	3.59	3.24	2.76	500SSP1S1M1QEA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Solder Lug	EG2476-ND•	3.88	3.49	2.98	500SSP1S1M1QEB
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	P.C. Mount	EG2472-ND	3.88	3.49	2.98	500SSP1S1M2REA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Right Angle	EG2478-ND	4.21	3.80	3.23	500SSP1S1M6QEA
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	Solder Lug	EG2477-ND	4.50	4.05	3.45	500SSP1S1M6REA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Right Angle	EG2480-ND	4.43	3.99	3.40	500SSP1S1M7QEA
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	Vert. Right Angle	EG2479-ND	4.71	4.24	3.62	500SSP1S1M7REA
	DPDT	5A @ 28VDC	.152 (3.86)	On-On	P.C. Mount	EG2475-ND	5.26	4.74	4.04	500SDP1S1M2QEA
	DPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	P.C. Mount	EG2474-ND	5.71	5.15	4.38	500SDP1S1M2REA
2	SPDT	5A @ 28VDC	.122 (3.10)	On-On	P.C. Mount	EG2481-ND	5.42	4.88	4.16	500ASSP1M2QE
	SPDT	0.4 VA @ 20VDC	.122 (3.10)	On-On	P.C. Mount	EG2482-ND	5.75	5.18	4.42	500ASSP1M2RE
	SPDT	5A @ 28VDC	.122 (3.10)	On-On	Right Angle	EG2483-ND	5.93	5.34	4.55	500ASSP1M6QE
	SPDT	0.4 VA @ 20VDC	.122 (3.10)	On-On	Right Angle	EG2484-ND	6.26	5.64	4.81	500ASSP1M6RE

Cannon

ITT Industries
Engineered for life

AYZ Series Slide Switches

SPDT


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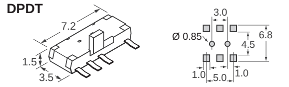


Slide switch for surface mount. **Travel:** 1.5 (0.0591) **Switching**: Voltage Max.: 12VDC, Current Max.: 100mA **Contact Resistance:** 80mΩ **Contact Material:** Silver, Non-shorting **Operating Temperature.:** -10°C to +60°C

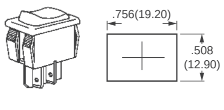
Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing*	ITT Industries Part No.
SPDT	Non-Shorting,100mA, Horizontal Actuator, Gullwing-lead	401-1001-1-ND	1.11	1.03	.95	2462.40/4,000	AYZ0102AG
DPDT	Non-Shorting, 100mA, Vertical Actuator, Gullwing-lead	401-1000-1-ND	1.50	1.39	1.28	2500.20/3,000	AYZ0202AG

*For Tape and Reel part no., change -1-ND to -2-ND.

CW INDUSTRIES Panel Mount Rocker Switches

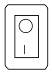
Mini Rocker Switches

CW Rocker switches are single pole or double pole switches capable of currents normally associated with much larger switches. Standard black body with either black or red rocker knob. Designed to satisfy unique styling requirements which can be the key to a products success. Switches with markings are white ink stamped markings on rocker knob. Illuminated "Soft Glow" switches are 110VAC neon bulbs, red diffused lens. Typical applications: Motor-driven devices, instruments, household appliances, auto. access., recreational vehicles, and telecommunication, computer and computer peripheral equipment. All terminals are .187" QC **MATERIALS:** • **Rocker Knob:** Nylon 94V-2. • **Housing:** Nylon 94V-2. • **Terminal/Stationary/Moving Contact:** Copper alloy, and/or copper alloy silver plated. **MOUNTING:** Self locks without hardware when popped into the panel cutout. Acceptable panel thickness range is from .050 to .150 (1.27mm to 3.81mm). **PERFORMANCE STANDARDS: Contact Resistance:** Less than .01Ω at 10mA (initial). **Operating Temp.:** 105°C maximum. ***Caution:*** Burr direction must be away from the direction of insertion.



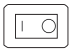
Switch Markings

A



Vertical Hot Stamp

B



Horizontal Hot Stamp

Switch Marking	Rocker Color	Circuit	Finish	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
—	Black	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW339-ND*	1.22	1.10	.83	.55	GRS-4011-0024
—	Black	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW301-ND	1.16	1.04	.78	.52	GRS-4011-1600
—	Red	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW302-ND	1.16	1.04	.78	.52	GRS-4011-0040
B	Black	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW322-ND	1.33	1.20	.90	.60	GRS-4011-0068
A	Black	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW323-ND	1.33	1.20	.90	.60	GRS-4011-0076
—	Black	SPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW303-ND	1.25	1.13	.85	.57	GRS-4012-1600
—	Red	SPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW304-ND	1.29	1.16	.87	.58	GRS-4012-0026
A	Black	SPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW324-ND	1.43	1.28	.96	.64	GRS-4012-0047
—	Black	DPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW307-ND	1.78	1.60	1.20	.80	GRS-4022-1600
—	Red	DPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW308-ND	1.78	1.60	1.20	.80	GRS-4022-0010
A	Black	DPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW325-ND	1.96	1.76	1.32	.88	GRS-4022-0013
—	Black	SPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW305-ND	1.59	1.43	1.07	.72	GRS-4013A-1300
—	Red	SPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW306-ND	1.59	1.43	1.07	.72	GRS-4013A-0008
—	Black	SPST	Matte	Off/Mom	3A 125VAC, 10A 250VAC	UL, CSA	SW329-ND	1.34	1.20	.90	.60	GRS-4011B-1300
—	Black	SPDT	Matte	Mom/Off/Mom	8A 125VAC, 4A 250VAC	UL, CSA	SW340-ND	1.55	1.39	1.05	.70	GRS-4013C-0001
—	Black	DPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW309-ND	2.12	1.90	1.43	.95	GRS-4023A-1300
—	Red	DPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW310-ND	2.12	1.90	1.43	.95	GRS-4023A-0009
—	Black	DPDT	Matte	Off/Mom	3A 125VAC, 10A 250VAC	UL, CSA	SW330-ND	1.87	1.68	1.26	.84	GRS-4021B-0000
—	Black	DPDT	Matte	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW311-ND	2.12	1.90	1.43	.95	GRS-4023C-1300
—	Red	DPDT	Matte	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW312-ND	2.12	1.90	1.43	.95	GRS-4023C-0005
—	Red Illum.	SPST	Matte	On/Off	16A 125VAC	UL, CSA	SW300-ND	2.93	2.63	1.97	1.32	GRL-4011-1600

* Note: Eyelet Terminals

Standard Rocker Switches

CW Rocker Switches are designed to solve the switching problems of the user and styled to satisfy the designer…easy to mount, easy to terminate, and easy to actuate. Hot stamped versions are marked for switch position identification illuminated version is 120VAC neon bulb. **OPERATING STANDARDS: Temperature:** 105°C max. **Contact Resistance:** 0.01Ω at 10mA. **MATERIALS: Rocker Knob:** Nylon 94V-4. **Housing:** Nylon 94V-2. **Terminal Board:** Nylon 94V-0. **Terminal/Moving Contact:** Copper and/or copper alloy silver plated. **MOUNTING:** No hardware or tools needed; self locks into proper panel cutout. Acceptable panel thickness range is from .025 to .180 (0.64mm to 4.57mm). All terminals are .250" QC. ***Caution:*** Burr direction must be away from the direction of insertion.

Fig. 1

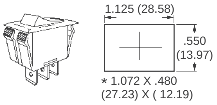
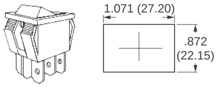
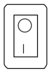


Fig. 2



A **Switch Marking**



Vertical Hot Stamp

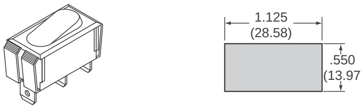
Fig.	Switch Marking	Rocker Color	Finish	Circuit	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
1	—	Red Illum.	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW313-ND	2.37	2.12	1.59	1.06	GRL-2011-1600
1	—	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW314-ND	1.06	.96	.72	.48	GRS-2011-2000
1	—	Red	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW315-ND	1.12	1.00	.75	.50	GRS-2011-2019
1	A	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW326-ND	1.23	1.11	.83	.56	GRS-2011-2080
1	—	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW316-ND*	1.12	1.00	.75	.50	GRS-2011-3000
1	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW319-ND*	1.20	1.08	.81	.54	GRS-2012-3000
1	A	Black	Matte	SPST	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW341-ND*	1.29	1.16	.87	.58	GRS-2011-3020
1	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW317-ND	1.20	1.08	.81	.54	GRS-2012-2000
1	—	Red	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW318-ND	1.20	1.08	.81	.54	GRS-1200-2009
1	A	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW327-ND	1.38	1.24	.93	.62	GRS-2012-2028
1	—	Black	Matte	SPDT	On/Off/On	16A 125VAC, 12A 250VAC	UL, CSA	SW320-ND	1.55	1.40	1.05	.70	GRS-2013A-2000
1	—	Black	Matte	SPST-NO	Off/Mom	3A 125VAC	UL, CSA	SW613-ND	1.23	1.11	.83	.56	GRS-2011B-2000
1	—	Black	Matte	SPST-NC	On/Mom	13A 125VAC	UL, CSA	SW614-ND	1.23	1.11	.83	.56	GRS-2011C-2000
2	—	Black	Matte	DPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW321-ND	2.88	2.58	1.94	1.29	GR-2022-1600
2	A	Black	Matte	DPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW328-ND	3.06	2.74	2.06	1.37	GR-2022-0007

* Dimensions are 1.072" x .480" (27.23mm x 12.19mm)

StyleLine Rocker Switches

CW's GRS-2000 Series StyleLine Rocker Switches, available in SPST, SPDT, AND Center Off versions, are specially designed to meet contemporary product styling and global appearance trends. The contoured design and slim attractive profile of the switch knob and bezel provide superior styling, and are available in both high-gloss and matte finish.

They are ideal for appliances, recreational equipment, medical and scientific devices, testing equipment, security systems, computers and peripherals, and many other products where performance and style are important. All terminals are .250" QC.



Rocker Color	Finish	Circuit	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
Black	Matte	SPST	On/Off	16A-125VAC	UL, CSA, VDE	SW601-ND	1.33	1.19	.90	.60	GRS-2011-2400
White	Matte	SPST	On/Off	16A-125VAC	UL, CSA, VDE	SW602-ND	1.39	1.25	.94	.63	GRS-2011-2401
Black	Hi-Gloss	SPST	On/Off	16A-125VAC	UL, CSA, VDE	SW603-ND	1.33	1.19	.90	.60	GRS-2011-2500
White	Hi-Gloss	SPST	On/Off	16A-125VAC	UL, CSA, VDE	SW604-ND	1.39	1.25	.94	.63	GRS-2011-2501
Black	Matte	SPDT	On/Off	16A-125VAC	UL, CSA, VDE	SW605-ND	1.50	1.35	1.02	.68	GRS-2012-2400
White	Matte	SPDT	On/Off	16A-125VAC	UL, CSA, VDE	SW606-ND	1.57	1.41	1.06	.71	GRS-2012-2401
Black	Hi-Gloss	SPDT	On/Off	16A-125VAC	UL, CSA, VDE	SW607-ND	1.50	1.35	1.02	.68	GRS-2012-2503
White	Hi-Gloss	SPDT	On/Off	16A-125VAC	UL, CSA, VDE	SW608-ND	1.57	1.41	1.06	.71	GRS-2012-2504
Black	Matte	SPDT	On/Off/On	16A-125VAC	UL, CSA, VDE	SW609-ND	1.94	1.74	1.31	.87	GRS-2013A-2400
White	Matte	SPDT	On/Off/On	16A-125VAC	UL, CSA, VDE	SW610-ND	2.01	1.80	1.35	.90	GRS-2013A-2401
Black	Hi-Gloss	SPDT	On/Off/On	16A-125VAC	UL, CSA, VDE	SW611-ND	1.94	1.74	1.31	.87	GRS-2013A-2500
White	Hi-Gloss	SPDT	On/Off/On	16A-125VAC	UL, CSA, VDE	SW612-ND	2.01	1.80	1.35	.90	GRS-2013A-2501

IndicON Rocker Switches

Fig. 1

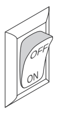
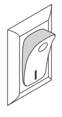
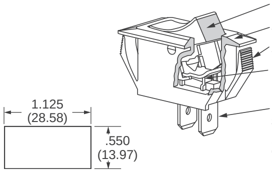


Fig. 2




1.125
(28.58)
.550
(13.97)
Positive indication of electrical status using two-color rocker knob
Attractive, soft matte finish
Easy self-lock panel mounting without tools or additional hardware
Patented unique sliding and rotating action of moving contact ensures contact cleanliness and extended life
.250 (6.35) terminals permit use of standard female connectors
Shallow housing design provides optimum terminal wiring space

IndicON rocker switches are the right choice wherever you want performance combined with style. Provides users with a positive indication whether switch is "On" or "Off". Unlike lighted rocker switches which may burn out over time, there's never a safety concern with IndicON switches.

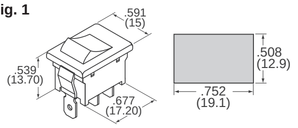
Features: • Economical alternative to lighted switches • Fast and secure mounting - no hardware required • Long life, reliable operation • Two color molding process provides permanent legends • Compatible appearance with other CW switches **Electrical Specifications:** 16A @ 125V AC rating without precious metals **Agency Certifications:** UL, CSA, and VDE

Fig.	Switch Color	Actuator Color	Circuit Funct.	Switch Type	Term. Type In. (mm)	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
1	Black	Red	SPST	On-Off	.250QC (6.35)	SW344-ND	1.20	1.08	.81	.54	NAA-111-BI11-00
1	Black	Red	SPDT	On-On	.250QC (6.35)	SW349-ND	1.28	1.15	.87	.58	NBA-111-BI11-00
2	Black	Red	SPST	On-Off	.250QC (6.35)	SW354-ND	1.20	1.08	.81	.54	NAA-111-BI21-00

CHERRY Rocker Switches

Cherry's new Rocker Switches were designed to be snapped into a panel without the need for additional hardware and are offered in a variety of styles and colors. Perfect for all types of power switching and control.

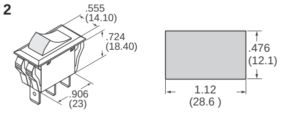
Fig. 1



SR/LR Series: Industry standard miniature switches with 10A switching current.

Switch Current: SR Series 6A @ 250VAC LR Series 10A 125VAC/8A 250VAC
Actuator Base: Nylon 66 94V-2
Contacts: Silver Alloy
Illuminated Versions: 125VAC Neon Lamp
Terminals: .187" QC

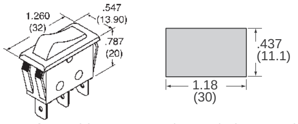
Fig. 2



CR Series: Standard size power rocker switches with two color molded buttons (red shaded) for maximum visibility on selected actuators.

Switch Current: 20A 125VAC/16A 250VAC
Actuator Base: Nylon 66 94V-2
Contacts: Silver Alloy
Illuminated Versions: 125VAC Neon Lamp
Terminals: .250" QC
Note: Panel cut out CH812-ND and CH813-ND 1.12 x .543.

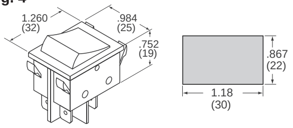
Fig. 3



TR Series: Thin power rocker switches used extensively in appliance and white goods markets.

Switch Current: 16A 125VAC/16A 250VAC
Actuator Base: Nylon 66 94V-2
Contacts: Silver Alloy
Illuminated Versions: 125VAC Neon Lamp
Terminals: .250" QC

Fig. 4



WR Series: Large DP power rocker switches for power switching.

Switch Current: 16A 125VAC/16A 250VAC
Actuator Base: Nylon 66 94V-2
Contacts: Silver Alloy
Illuminated Versions: 125VAC Neon Lamp
Terminals: .250" QC

Legend Marks	A	B	C	D	E	F
	○ —	I○II	•		OFF ON	▨

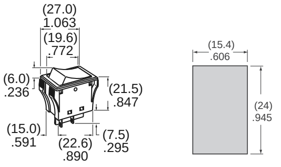
Fig.	Body Color	Actuator Color	Circuit Function	Switch Type	Legend Marking	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
SR Series — 10 Amp Miniature Rocker Switches										
1	Black	Black	On/Off	SPST	A	CH755-ND	.76	.68	.56	SRB22A2FBBNN
		Black	On/On	SPDT	D	CH756-ND	.81	.72	.60	SRB23A2BBBNN
		Black	On/Off/On	SPDT	B	CH757-ND	.95	.84	.70	SRB24A2HBBNN
		Black	On/Off	SPST	D	CH758-ND	.73	.65	.54	SRB22A2BBBNN
		Black	On/Off	SPST	C	CH759-ND	.73	.65	.54	SRB22A2GBBNN
	Black	Black	On/Off	SPST	E	CH760-ND	.73	.65	.54	SRB22A2DBBNN
		Red	On/Off	SPST	A	CH761-ND	.76	.68	.56	SRB22A2FBRNN
		White	On/Off	SPST	D	CH762-ND	.76	.68	.56	SRB22A2BBWNN
LR Series — 10 Amp Multi-pole Rocker Switches										
1	Black	Black	On/Off	SPST	D	CH763-ND	.89	.80	.66	LRA22H2BBBNN
	Black	Black	On/Off	SPST	A	CH764-ND	.89	.80	.66	LRA22H2FBBNN
	Black	Black	On/Off	SPST	E	CH765-ND	.89	.80	.66	LRA22H2DBBNN
	Black	Red	On/Off	SPST	A	CH766-ND	.92	.82	.68	LRA22H2FBRNN
	White	White	On/Off	SPST	A	CH767-ND	.95	.84	.70	LRA22H2FWWNN
	Grey	Grey	On/Off	SPST	A	CH768-ND	.95	.84	.70	LRA22H2FYYNN
	Black	Black	On/Off	DPST	D	CH769-ND	.97	.87	.72	LRA32H2BBBNN
	Black	Black	On/Off	DPST	A	CH770-ND	.97	.87	.72	LRA32H2FBBNN
	Black	Black	On/Off	DPST	E	CH771-ND	.97	.87	.72	LRA32H2DBBNN
	Black	Red-Illuminated	On/Off	SPST	D	CH772-ND	1.11	.99	.82	LRA22H2BBRLN
	Black	Red-Illuminated	On/Off	DPST	D	CH773-ND	1.19	1.06	.88	LRA32H2BBRLN
		Red-IIlluminated	On/Off	SPST	A	CH774-ND	1.11	.99	.82	LRA22H2FBRLN
		Red-Illuminated	On/Off	DPST	A	CH775-ND	1.19	1.06	.88	LRA32H2FBRLN
		Green-Illuminated	On/Off	SPST	D	CH776-ND	1.11	.99	.82	LRA22H2BBGLN
		Green-Illuminated	On/Off	DPST	D	CH777-ND	1.19	1.06	.88	LRA32H2BBGLN
	Black	Green-Illuminated	On/Off	SPST	A	CH778-ND	1.11	.99	.82	LRA22H2FBGLN
		Green-Illuminated	On/Off	DPST	A	CH779-ND	1.19	1.06	.88	LRA32H2FBGLN
		Amber-Illuminated	On/Off	SPST	D	CH780-ND	1.11	.99	.82	LRA22H2BBALN
		Amber-Illuminated	On/Off	DPST	D	CH781-ND	1.19	1.06	.88	LRA32H2BBALN
		Amber-Illuminated	On/Off	SPST	A	CH782-ND	1.11	.99	.82	LRA22H2FBALN
		Amber-Illuminated	On/Off	DPST	A	CH783-ND	1.19	1.06	.88	LRA32H2FBALN

Fig.	Body Color	Actuator Color	Circuit Function	Switch Type	Legend Marking	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
CR Series — 20 Amp Standard Rocker Switches										
2	Black	Black	On/Off	SPST	D	CH798-ND	.92	.82	.68	CRE22F2BBBNE
		Black	On/Off	SPST	A	CH799-ND	.92	.82	.68	CRE22F2FBBNE
		Black/Red Shade	On/Off	SPST	F	CH800-ND	.95	.84	.70	CRE22F4BBBNE
		Black/Red Shade	On/Off	SPST	E/F	CH801-ND	.95	.84	.70	CRE22F4DBBNE
		Black	On/Off	SPST	F	CH802-ND	.92	.82	.68	CRE22F2PBBNE
	Black	Red	On/Off	SPST	A	CH803-ND	.95	.84	.70	CRE22F2FBRNE
	White	White/Red Shade	On/Off	SPST	F	CH804-ND	.97	.87	.72	CRE22F4BWWNE
	Grey	Grey/Red Shade	On/Off	SPST	F	CH805-ND	.97	.87	.72	CRE22F4BYYNE
	Black	Black	On/On	SPDT	D	CH806-ND	1.00	.89	.74	CRE23F2BBBNE
	Black	Black	On/Off/On	SPDT	B	CH807-ND	1.03	.92	.76	CRE24F2HBBNE
	Black	Red	On/Off/On	SPDT	D	CH808-ND	1.03	.92	.76	CRE24F2BBRNE
		Red-Illuminated	On/Off	SPST	D	CH809-ND	1.16	1.04	.86	CRE22F2BBRLE
		Amber-Illuminated	On/Off	SPST	D	CH810-ND	1.16	1.04	.86	CRE22F2BBALE
		Green-Illuminated	On/Off	SPST	D	CH811-ND	1.16	1.04	.86	CRE22F2BBGLE
		Black-Washable	On/Off	SPST	A	CH812-ND	1.35	1.20	.99	CRE22F2FBBNW
		Black/Red Shade-Washable	On/Off	SPST	F	CH813-ND	1.35	1.20	1.00	CRE22F4BBBNW
TR Series — 16 Amp Thin Power Rocker Switches										
3	Black	Black	On/Off	SPST	A	CH792-ND	1.03	.92	.75	TRG22F2FBBNN
		Black	On/Off	SPST	E	CH793-ND	1.03	.92	.76	TRG22F2DBBNN
		Red	On/Off	SPST	A	CH794-ND	1.05	.94	.78	TRG22F2FBRNN
		Red-Illuminated	On/Off	SPST	D	CH795-ND	1.24	1.11	.92	TRG22F2BBRLN
		Green-Illuminated	On/Off	SPST	D	CH796-ND	1.24	1.11	.92	TRG22F2BBGLN
		Red-Illuminated	On/Off	SPST	D	CH797-ND	1.24	1.11	.92	TRG22F5BBRLN
WR Series — 16 Amp Double-Pole Large Rocker Switches										
4	Black	Black	On/Off	DPST	A	CH784-ND	1.35	1.20	1.00	WRG32F2FBBNN
		Black	On/Off	DPST	A	CH785-ND	1.35	1.20	1.00	WRG32F5FBBNN
		Black	On/Off/On	DPST	B	CH786-ND	1.62	1.44	1.20	WRG34F2HBBNN
		Red-Illuminated	On/Off	DPST	D	CH787-ND	1.67	1.49	1.24	WRG32F2BBRLN
		Red-Illuminated	On/Off	DPST	A	CH788-ND	1.67	1.49	1.24	WRG32F2FBRLN
	Black	Red-Illuminated	On/Off	DPST	D	CH789-ND	1.67	1.49	1.24	WRG32F5BBRLN
		Green-Illuminated	On/Off	DPST	D	CH790-ND	1.67	1.49	1.24	WRG32F2BBGLN
		Green-Illuminated	On/Off	DPST	A	CH791-ND	1.67	1.49	1.24	WRG32F2FBGLN

NKK SWITCHES Internationally Approved Rocker Switches

JW Series: Industry's first molded rockers with TV rating (JWM: TV-5; JWL: TV-8). UL, CSA, VDE, SEMKO and SEV approved. Silver contacts, epoxy sealed solder lug terminals. **Electrical Capacity:** JWM; 10A @ 125/250V AC; JWL: 16A @ 125/250V AC. **Dielectric Strength:** 2,000V AC min. between contacts; 4,000V AC min. between contacts and case. **Electrical Life:** 25,000 operations min. **Operating Temperature:** -25°C to +70°C. **Angle of Throw:** 26° **Terminals:** JWM: Solder lugs, JWL: .187" QC All switches are black body with black actuator.

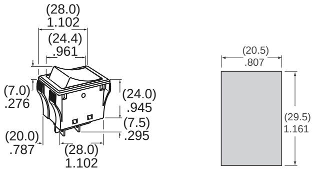
Fig. 1



SP

Panel Cutouts

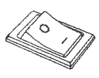
Fig. 2



DP

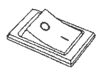
Panel Cutouts

A



Inscription for Horizontal Mounting

B

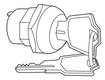


Inscription for Vertical Mounting

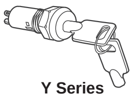
Fig.	Switching Circuit	Function	Marking	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Rocker Switches								
1	SPST	On-Off	None	360-1482-ND	7.05	5.64	4.47	JWM11RAA
	SPST	On-Off	A	360-1483-ND	7.65	6.12	4.85	JWM11RA1A
	SPST	On-Off	B	360-1484-ND	7.65	6.12	4.85	JWM11RA2A
	SPDT	On-On	None	360-1485-ND	8.55	6.84	5.42	JWM12RAA
1	DPST	On-Off	None	360-1486-ND	9.39	7.52	5.95	JWM21RAA
	DPST	On-Off	A	360-1487-ND	9.99	8.00	6.33	JWM21RA1A
	DPST	On-Off	B	360-1488-ND	9.99	8.00	6.33	JWM21RA2A
	DPDT	On-On	None	360-1489-ND	11.19	8.96	7.09	JWM22RAA

Fig.	Switching Circuit	Function	Marking	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
2	SPST	On-Off	None	360-1490-ND	9.39	7.52	5.95	JWL11RAA
	SPST	On-Off	A	360-1491-ND	9.99	8.00	6.33	JWL11RA1A
	SPST	On-Off	B	360-1492-ND	9.99	8.00	6.33	JWL11RA2A
	SPDT	On-On	None	360-1493-ND	11.19	8.96	7.09	JWL12RAA
2	DPST	On-Off	None	360-1494-ND	12.99	10.40	8.23	JWL21RAA
	DPST	On-Off	A	360-1495-ND	13.59	10.88	8.61	JWL21RA1A
	DPST	On-Off	B	360-1496-ND	13.59	10.88	8.61	JWL21RA2A
	DPDT	On-On	None	360-1497-ND	16.14	12.92	10.23	JWL22RAA
—	Switch Boot Waterproof JWL Series			360-1011-ND	3.39	2.72	2.15	AT4126

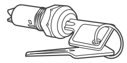
Key Switch — Switchlocks



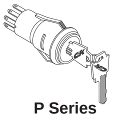
Y Series
4 Tumbler



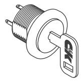
Y Series
6 Tumbler



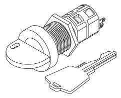
YM Series
YF Series



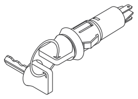
P Series



P Series, Low Profile



BY Series



PM Series

Fig. 1

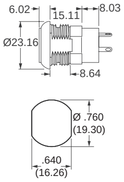


Fig. 2

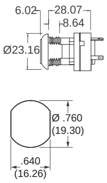


Fig. 3

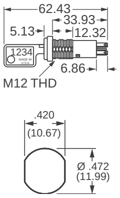


Fig. 4

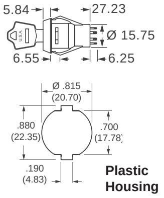


Fig. 5

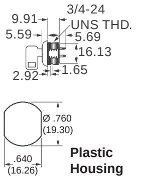


Fig. 6

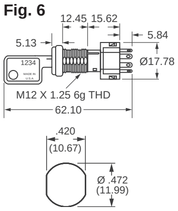


Fig. 7

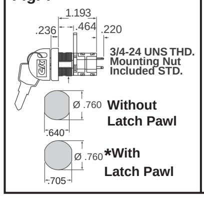
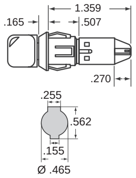
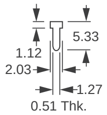


Fig. 8

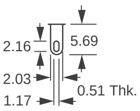


Termination Options

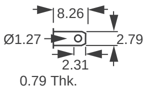
A



B



C



D

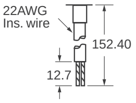


Fig.	No. Poles	Keypull Possible	Switch Type	Amp Rtg. @ 125 VAC	Term-ination	Connected Terminals Pos. 1	Connected Terminals Pos. 2	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	ITT Industries Part No.
1	SP	1 & 2	On-On	4	B	8-1	1-3	CKC8000-ND	8.89	7.68	6.47	Y1011U2C203NQ
	DP	1 & 2	On-On	4	B	8-1, 4-5	1-3, 5-7	CKC8001-ND	10.41	8.99	7.57	Y2011U2C203NQ
	SP	1 & 2	On-On	4	A	8-1	1-3	CKC8002-ND	8.89	7.68	6.47	Y1011U2C202NQ
	DP	1 & 2	On-On	4	A	8-1, 4-5	1-3, 5-7	CKC8003-ND	10.41	8.99	7.57	Y2011U2C202NQ
	SP	1, 2, & 3	On-Off-On	4	D	7-1, 1-3, 6-7		CKC8026-ND	11.55	9.98	8.40	Y1417U2C2WCNQE
	SP	1 only	On-Mom	4	B	8-1	1-2	CKC1230-ND	11.44	9.88	8.32	Y108122A203NQ
	DP	1 only	On-Mom	4	B	8-1, 4-5	1-2, 5-6	CKC1231-ND	12.10	10.45	8.80	Y208122A203NQ
2	SP	1 & 2	On-On	12	C	7-8	8-2	CKC8004-ND	12.10	10.45	8.80	H1011U2F205NQ
2	DP	1 & 2	On-On	12	C	7-8, 3-4	8-2, 4-6	CKC8005-ND	14.12	12.20	10.28	H2011U2F205NQ
1	SP	1 & 2	On-On	4	B	8-1	1-3	CKC8006-ND†	12.34	10.66	8.98	Y1011U2V203NQ
1	DP	1 & 2	On-On	4	B	8-1, 4-5	1-3, 5-7	CKC8007-ND†	13.93	12.03	10.13	Y2011U2V203NQ
Replacement Key for Y Series 4 Tumbler A126 Code								CKC8028-ND *NEW!*	1.65	1.43	1.20	115140126
Replacement Key for Y or H Series 6 Tumbler AAAA Code								CKC8027-ND *NEW!*	3.06	2.65	2.23	1110801
3	SP	1 & 2	On-Off	4	C	1-2		CKC8008-ND	10.03	8.67	7.30	YM061U2C205NQ
	SP	1 & 2	On-Off	4	D	1-2		CKC8009-ND	11.26	9.73	8.20	YM061U2C2WCNQ
	SP	1 only	On-Off	4	C	1-2		CKC8010-ND	10.03	8.67	7.30	YM06132C205NQ
	SP	1 only	On-Off	4	D	1-2		CKC8011-ND	11.26	9.73	8.20	YM06132C2WCNQ
	SP	2 only	On-Off	4	C	1-2		CKC8020-ND	10.03	8.67	7.30	YM061C2C205NQ
4	SP	1 only	On-On	4	B	8-1, 1-3		CKC8012-ND	11.31	9.77	8.23	P10113TCM03Q22
	DP	1 only	On-On	4	B	1-8, 4-5	1-3, 5-7	CKC8013-ND	13.02	11.25	9.48	P20113TCM03Q22
	SP	1 & 2	On-On	4	B	1-8		CKC8014-ND	11.31	9.77	8.23	P1011UTCM03Q22
	DP	1 & 2	On-On	4	B	1-8, 4-5	1-3, 5-7	CKC8015-ND	13.02	11.25	9.48	P2011UTCM03Q22
5	SP	1 & 2	On-On	4	B	8-1, 1-3		CKC8016-ND	4.58	3.96	3.33	P1011U2WM03NQ2
	DP	1 & 2	On-On	4	B	1-8, 4-5	1-3, 5-7	CKC8017-ND	5.06	4.37	3.68	P2011U2WM03NQ2
	SP	1 only	On-On	4	B	1-8		CKC8018-ND	4.47	3.86	3.25	P101132WM03NQ2
	DP	1 only	On-On	4	B	1-8, 4-5	1-3, 5-7	CKC8019-ND	5.17	4.47	3.76	P201132WM03NQ2
Replacement Key for P Series Snap-In Version								CKC8029-ND *NEW!*	2.75	2.38	2.00	11599112602
6	SP	1 only	On-On	4	B	8-1	1-3	CKC1234-ND	9.46	8.17	6.88	YF01132C203NQ
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	CKC1235-ND	10.41	8.99	7.57	YF21132C203NQ
	SP	1 & 2	On-On	4	B	8-1, 1-3		CKC1236-ND	9.46	8.17	6.88	YF011U2C203NQ
	DP	1 & 2	On-On	4	B	8-1, 4-5	1-3, 5-7	CKC1237-ND	10.41	8.99	7.57	YF211U2C203NQ
7	SP	1 & 2	On-On	4	B	8-1, 1-3		CKC8023-ND	10.89	9.41	7.92	BY011UJC03NQ22
	SP	1 & 2	On-On	4	B	8-1, 1-3		CKC8024-ND*	11.77	10.17	8.56	BY011UJC03LQ22
	SP	1, 2, & 3	On-On-On	4	B	8-1, 1-2, 7-8		CKC8025-ND*	11.77	10.17	8.56	BY01AFJC03LQ22
8	SP	1 only	Off-On	4	B	1-2		CKC8021-ND	12.87	11.12	9.36	PM0613EBM05KQ22
	SP	1 & 2	On-Off	4	B	1-2		CKC8022-ND	12.87	11.12	9.36	PM061UEBM05KQ22

† 6 Tumbler Version * With Latch Pawl ***NOTE:*** All switchlocks come with hardware and 2 keys.

Thumbwheel Switches

Fig. 1 — Series 3

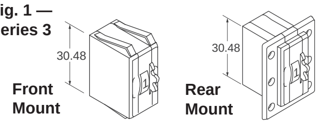


Fig. 2 — Series 3U

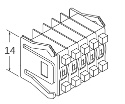


Fig. 3 —Series 3P

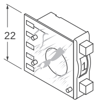
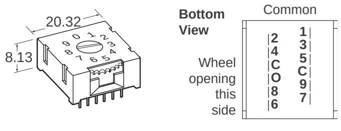


Fig.	Description	No. of Pos.	Color	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	ITT Ind. Part No.
1	Decimal Output Switch, Front Mount	0-9	Blk. Gloss	CKN5013-ND	11.37	9.10	7.21	301109000
1	BCD Output Switch, Front Mount	0-9	Blk. Gloss	CKN5014-ND	11.37	9.10	7.21	302109000
1	Decimal Output Switch, Rear Mount	0-9	Blk. Gloss	CKN1186-ND	11.37	9.10	7.21	301119000
1	BCD Output Switch, Rear Mount	0-9	Blk. Gloss	CKN1187-ND	11.37	9.10	7.21	302119000
—	Front Mounted End Cap for Series 3 (2 required)			CKN5015-ND	1.86	1.49	1.18	413402000
—	Front Mounted Spacer for Series 3 (optional)			CKN5016-ND	2.25	1.80	1.43	413502000
—	Rear Mounted End Cap for Series 3 (2 required)			CKN5017-ND	.54	.44	.35	400402000
—	Rear Mounted Spacer for Series 3 (optional)			CKN5018-ND	1.68	1.35	1.07	400802000
—	Rod Assembly for 1 Module (Series 3)			CKN5019-ND	2.58	2.07	1.64	412707000
—	Rod Assembly for 2-4 Modules (Series 3)			CKN5020-ND	2.70	2.16	1.71	412701000
—	Rod Assembly for 5-7 Modules (Series 3)			CKN5021-ND	2.70	2.16	1.71	412702000
—	Rod Assembly for 8-10 Modules (Series 3)			CKN5022-ND	2.70	2.16	1.71	412703000
—	Fastener Nut for Rod Assemblies (Series 3)			CKN5023-ND	.27	.22	.18	403500000
—	Nut Driver hand tool for CKN5023-ND Fasteners			CKN5024-ND*	9.60	7.68	6.08	406100652
2	BCD Output without Dust Lens	0-9	Blk. Gloss	CKN5025-ND	9.84	7.88	6.24	3U0210000
2	BCD Output with Dust Lens	0-9	Blk. Gloss	CKN5026-ND	10.29	8.24	6.52	3U0210002
—	Left End Cap for 3U Series			CKN5027-ND	.42	.34	.27	113B02000
—	Right End Cap for 3U Series			CKN5028-ND	.42	.34	.27	114B02000
3	BCD type with Straight Board	0-9	Blk. Gloss	CKN5029-ND	10.38	8.31	6.58	3P0210000
3	Decimal type with Right Angle Board	0-9	Blk. Gloss	CKN5030-ND	14.76	11.81	9.35	3P0110L00
—	Left End Cap for 3P Series			CKN5031-ND	.54	.44	.35	623502000
—	Right End Cap for 3P Series			CKN5032-ND	.54	.44	.35	623602000

* Xcelite hand tool

Mini-thumbwheel Switches



Specifications: • **Contact Rating:** Carry — 1 Amp continuous @ 28VDC Switch —100mA max. @ 28VDC • **Electrical Life:** 10^5 detent operations @ 25°C • **Contact Resistance:** Below 100 milliohms typ. initial @ 2-4VDC, 100mA • **Insulation Resistance:** 10^8 ohms min. (dry) • **Dielectric Strength:** 250V RMS min. @ sea level • **Operating Temperature:** –10°C to +65°C

Materials: • **Cover:** Thermoplastic polyester • **Base:** Glass filled nylon • **Thumbwheel:** Nylon • **Rotor Contacts:** Hard gold over nickel over copper on epoxy fiberglass • **Stator Contacts:** copper alloy with gold over nickel • **Terminals:** Solder clad over copper alloy, insert molded.

Function Code	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	ITT Ind. Part No.
Decimal	CKN5034-ND★	11.22	8.98	7.11	3M123

Wheel markings ★Horizontal

Keylock Switches

12mm, Miniature, Low and Medium Security: SK bushing mount keylock switches are available in single pole, double throw with 12mm diameter bushing, silver contacts, UL recognition. CSA certification, short behind panel dimension and epoxy sealed solder lug terminals. Terminals have .043" x .079" holes. Face and bezel have bushed chrome finish. 2 keys of chromate over zinc alloy provided. **Electrical Capacity:** 3A @ 125V AC. **Dielectric Strength:** 1,500V AC min. between contacts and case. **Mechanical Life:** 30,000 cycles min. **Electrical Life:** 10,000 cycles min. **Operating Torque:** 270 grams-cm. **Operating Temperature:** -25°C through +70°C. **Angle of Throw:** 90° for on-none-on models, 45° for on-off-on models. **Panel Thickness:** .315". **Standard Hardware:** 1 hex nut and 1 locking ring

16mm, High Security, Antistatic: CKM bushing mount keylock switches are available in single pole, double throw with 16mm diameter bushing, silver contacts, high insulating material (15kV ESD) and epoxy sealed solder lug terminals. Terminals have .047" x .094" holes. Face and bezel have black matte finish. 1 key with PBT handle provided. **Electrical Capacity:** 3A @ 250V AC. **Dielectric Strength:** 1,500V AC minimum between contacts and case. **Mechanical Life:** 30,000 cycles min. **Electrical Life:** 10,000 cycles min. **Operating Torque:** .04 milli-Newton/meter (5.67 ounce-in) for flat key (F code); .08 milli-Newton/meter (11.33 ounce-in) for tubular key (T code). **Operating Temperature:** -25°C through +70°C. **Angle of Throw:** 90° for on-on models, 45° for on-off-on models. **Panel Thickness:** .496". **Standard Hardware:** 1 hex nut.

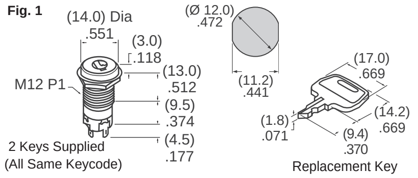
19mm High Security: CKL keylock switches are available in single pole, double throw with 19mm dia. bushing, silver contacts, and epoxy sealed solder lug terminals. Terminals have .055" x .0217" holes. Face and bezel have a brass with chrome or nickel finish. 1 key of chrome over brass provided. **Electrical Capacity:** 3A @ 250V AC. **Dielectric Strength:** 1,500V AC min. between contacts and case. **Mechanical Life:** 30,000 cycles min. **Electrical Life:** 10,000 cycles min. **Operating Torque:** .05 milliNewton/meter (7.08 ounce-in) for flat key (F Code); .07 milliNewton/meter (9.91 ounce-in) for tubular key (T Code). **Operating Temperature:** -25°C through +70°C. **Angle of Throw:** 90° for on-on models and 45° for on-off-on models. **Panel Thickness:** .496" **Standard Hardware:** 1 hex nut.

Antistatic PC SP3T and SPST Low Security: SK PCB mount keylock switches are available in single pole (SK13 models 3 throw, SK15 models 5 throw). Straight PC with bracket. Gold contacts, 2 polyacetal keys supplied. **Electrical Capacity:** 0.4A @ 28V AC/DC. **Dielectric Strength:** 500V AC min. **Mechanical Life:** 30,000 cycles min. **Electrical Life:** 20,000 cycles min. **Operating Torque:** 2.039 grams-cm. **Operating Temperature:** -25°C through +70°C. **Angle of Throw:** 45° for all Position models.

PC Miniature Low Security: SK series PCB mount switches in single and double pole. Straight or right angle PC with bracket. Gold contacts, 2 keys supplied. **Electrical Capacity:** 0.4A @ 28V AC/DC. **Dielectric Strength:** 500V AC min. **Mechanical Life:** 30,000 cycles min. **Electrical Life:** 10,000 cycles min. **Operating Torque:** 270 grams-cm for momentary action models, 210 grams-cm for maintained action models. **Operating Temperature:** -25°C through +70°C. **Angle of Throw:** 90° for 2 Position models, 45° for 3 Position models.

Dim. in (mm) Inch

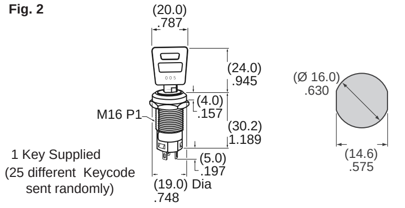
Fig. 1



2 Keys Supplied
(All Same Keycode)

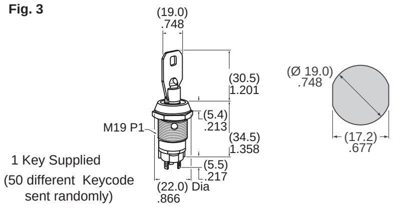
Replacement Key

Fig. 2



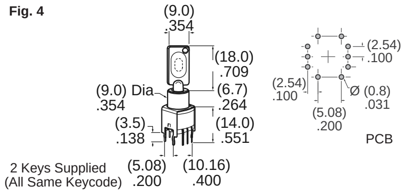
1 Key Supplied
(25 different Keycode
sent randomly)

Fig. 3



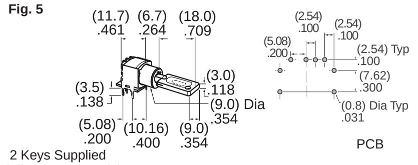
1 Key Supplied
(50 different Keycode
sent randomly)

Fig. 4



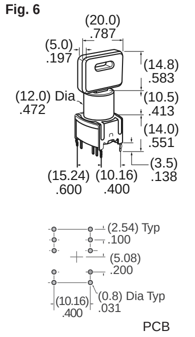
2 Keys Supplied
(All Same Keycode)

Fig. 5



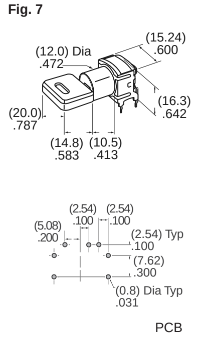
2 Keys Supplied
(All Same Keycode)

Fig. 6



2 Keys Supplied
(All Same Keycode)

Fig. 7



2 Keys Supplied
(All Same Keycode)

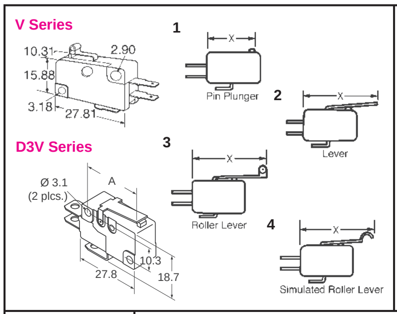
Fig.	Key Positions			Key Removable Positions	Digi-Key Part No.	Price Each			NKK Part. No.
	Pos. 1	Pos. 2	Pos. 3			1	25	100	
12mm Miniature Low and Medium Security									
1	On	None	On	1 & 3	360-1459-ND	16.95	13.56	10.74	SK12AAW01
	On	None	On	1	360-1460-ND	16.95	13.56	10.74	SK12BAW01
	On	Off	On	1, 2, 3	360-1461-ND	17.85	14.28	11.31	SK13DAW01
	On	Off	On	2	360-1462-ND	17.85	14.28	11.31	SK13EAW01
	On	None	On	1 & 3	360-1463-ND	33.30	26.64	21.09	SK12ADW01
	On	None	On	1	360-1464-ND	33.30	26.64	21.09	SK12BDW01
	On	Off	On	1, 2, 3	360-1465-ND	34.20	27.36	21.66	SK13EDW01
Replacement Key for SK12..AW01 Switches, Chrome/Zinc Alloy					360-1010-ND	2.40	1.92	1.52	AT4081
16mm High Security Antistatic - Flat Key Version									
2	On	None	On	1 & 3	360-1447-ND	16.68	13.35	10.57	CKM12AFW01
	On	None	On	1	360-1448-ND	16.68	13.35	10.57	CKM12BFW01
	On	Off	On	2	360-1449-ND	18.42	14.74	11.67	CKM13EFW01
16mm High Security Antistatic - Tubular Key Version									
2	On	None	On	1 & 3	360-1450-ND	16.68	13.35	10.57	CKM12ATW01
	On	None	On	1	360-1451-ND	16.68	13.35	10.57	CKM12BTW01
	On	Off	On	2	360-1452-ND	18.42	14.74	11.67	CKM13ETW01
19mm High Security - Flat Key Version									
3	On	None	On	1 & 3	360-1453-ND	16.89	13.52	10.70	CKL12AFW01
	On	None	On	1	360-1454-ND	16.89	13.52	10.70	CKL12BFW01
	On	Off	On	2	360-1455-ND	18.63	14.91	11.80	CKL13EFW01
19mm High Security - Tubular Key Version									
3	On	None	On	1 & 3	360-1456-ND	16.89	13.52	10.70	CKL12ATW01
	On	None	On	1	360-1457-ND	16.89	13.52	10.70	CKL12BTW01
	On	Off	On	2	360-1458-ND	18.63	14.91	11.80	CKL13ETW01

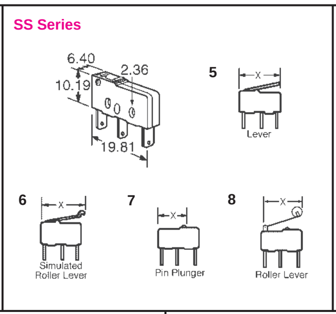
Fig.	Key Positions					Key Removable Positions	Digi-Key Part No.	Price Each			NKK Part. No.
	Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5			1	25	100	
Antistatic PC SP3T and SP5T Low Security											
4	On	On	On	—	—	1, 2, 3	360-1466-ND	16.50	13.20	10.45	SK13AEG13
5	On	On	On	—	—	1, 2, 3	360-1467-ND	17.25	13.80	10.93	SK13AEG30
4	On	On	On	On	On	1, 2, 3, 4, 5	360-1468-ND	17.40	13.92	11.02	SK15AEG13
5	On	On	On	On	On	1, 2, 3, 4, 5	360-1469-ND	18.15	14.52	11.50	SK15AEG30

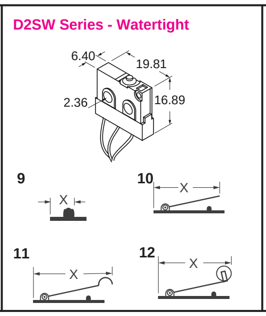
Fig.	Pole	Key Positions			Key Removable Positions	Digi-Key Part No.	Price Each			NKK Part. No.
		Pos. 1	Pos. 2	Pos. 3			1	25	100	
PC Miniature Low Security										
6	SPDT	On	None	On	1 & 3	360-1470-ND	17.25	13.80	10.93	SK12AG13
6	SPDT	On	None	On	1	360-1471-ND	17.25	13.80	10.93	SK12BG13
6	SPDT	On	None	Mom	1	360-1472-ND	18.69	14.96	11.84	SK15BG13
6	SP3T	On	On	On	1, 2, 3	360-1473-ND	18.69	14.96	11.84	SK14DG13
6	SP3T	On	On	On	2	360-1474-ND	18.69	14.96	11.84	SK14EG13
6	DPDT	On	None	On	1 & 3	360-1475-ND	18.60	14.88	11.78	SK22AG13
6	DP3T	On	On	On	1, 2, 3	360-1476-ND	20.49	16.40	12.98	SK24DG13
6	DP3T	On	On	On	2	360-1477-ND	20.49	16.40	12.98	SK24EG13
7	SPDT	On	None	On	1 & 3	360-1478-ND	17.70	14.16	11.21	SK12AG30
7	SPDT	On	None	On	1	360-1479-ND	17.70	14.16	11.21	SK12BG30
7	SPDT	On	None	Mom	1	360-1480-ND	19.14	15.32	12.13	SK15BG30
7	SP3T	On	On	On	1, 2, 3	360-1481-ND	19.14	15.32	12.13	SK14DG30
Replacement Key, Plastic Coated for Above Switches						360-1009-ND	2.16	1.73	1.37	AT4080

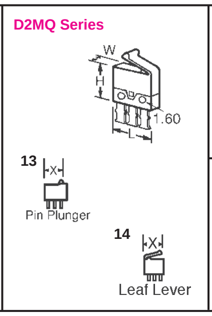
OMRON Basic Type Snap Switches

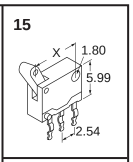
9247B-ND	Omron Switch Databook	$2.00

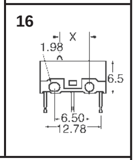


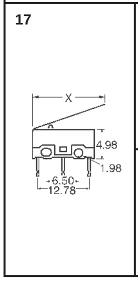


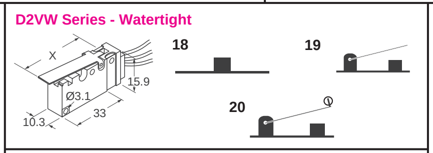


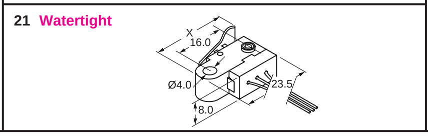


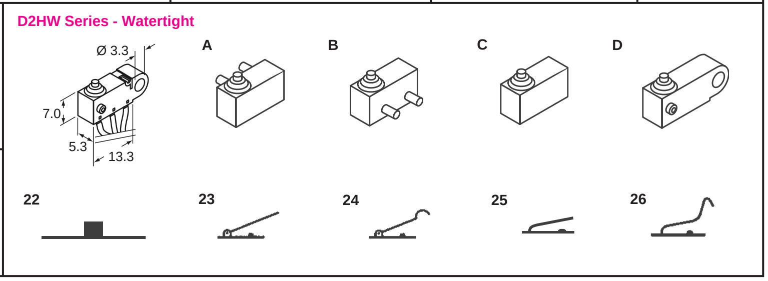












V Series:

Features: • Operating Frequency: Mechanical: 600 operations per minute; Electrical: 60 operations per minute • Contact Resistance: 15mΩ maximum • Ambient Operating Temperature: -25°C to +80°C • Humidity: 85% RH maximum • Service Life: Mechanical: 50,000,000 operations minimum Electrical: 100,000 operations minimum

D3V Series

Features: • Reliable and safe basic switch • Extended lever • Environment friendly with beryllium free contacts.

SS Series:

Features: • Economical, subminiature basic switch offers long service life (30 million operations minimum) • All models are free from overtravel restrictions, permit easy setting • Wide switching capacity range from microvoltage/current loads (1mA at 5 VDC) to high-capacity loads 10.1A at 250VAC) **Characteristics:** • Operating Frequency: Mechanical: 400 operations per minute Electrical: 60 operations per minute • Ambient Operating Temperature: -25°C to +85°C • Humidity: 85% RH max. • Service Life: Mechanical: 30 million operations minimum (10 million operations minimum for the SS-10 series) Electrical: 200,000 operations minimum

Watertight D2SW Miniature Basic Switch:

Features: • High-quality watertight miniature basic switch—meets IP67 requirements • A wide operating temperature range of -40°C to +85°C is ideal for any operating environment • Ideal for the automobile, agricultural machinery, automatic vending machine, refrigerator, ice-manufacturing, bath equipment, hot-water supply, air conditioner, and factory machine industries **Characteristics:** • Operating Frequency: Mechanical: 300 operations/min; Electrical: 60 operations/minute • Contact Resistance: 50mΩ maximum • Life Expectancy: Mechanical: 5,000,000 operations minimum, Electrical: 200,000 operations minimum • Ambient Operating Humidity: 95% maximum • Enclosure Rating: Reference to IP67

D3C Series:

Features: • Built-in slide mechanism selects shorting or non-shorting switch timing • 3mm long stroke • PCB mount switch with 100 milliamp capacity • Ideal for household appliances, sound equipment, office equipment, communications equipment, etc. • Compact size (8W x 6H x 4.2D mm) **Characteristics:** • Operating Frequency: Mechanical: 200 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 50mΩ max. • Ambient Operating Temperature: -20°C to +80°C • Operating Humidity: 65% max. at 5° to 35°C • Service Life: 50,000 operations minimum at the rated switch frequency

D2F Series:

Features: • Super compact, ideal for PCB mounting • Long life span assured by high-precision dual spring reverse-action mechanism • Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom • Ideal for a wide variety of applications, from household appliances and office equipment to audio equipment and communications equipment

Watertight D2VW/D2FW Miniature Basic Switch:

Features: • High-quality watertight, high-precision miniature basic switch—meets IP67 requirements • Monoblock construction assures high sealing capability and is ideal for dusty places or where water is sprayed • V-series internal mechanism assures high operating-position accuracy (±0.4mm) and long life (10 million operations) • Wide operating temperature range of -40°C to +90°C is ideal for any operating environment • General-load (5A @ 250VAC) and micro-load (.1A @ 125VAC) available

D2HW Series:

Features: • Smallest sealed snap action switch • Fully sealed construction • Lead free construction • Conforms to IP67 (wire leads) and IP50 (terminal type) • Long stroke, even without levers for reliable On-Off action

Fig.	Contact Style	Contact Rating	Terminal Size Inch (mm)	Dim. "X" (mm)	Actuation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
V Series										
1	SPDT	10 amps	.187 QC (4.75)	24.38	100gf	SW126-ND	1.85	1.67	1.48	V-10G-1C24-K
2	SPDT	10 amps	.187 QC (4.75)	38.35	125gf	SW127-ND	1.88	1.69	1.50	V-10G2-1C25-K
3	SPDT	10 amps	.187 QC (4.75)	24.38	240gf	SW128-ND	2.25	2.03	1.80	V-10G5-1C25-K
1	SPDT	15 amps	.187 QC (4.75)	24.38	200gf	SW129-ND	1.85	1.67	1.48	V-15G-1C25-K
1	SPDT	15 amps	.187 QC (4.75)	24.38	400gf	SW130-ND	1.85	1.67	1.48	V-15G-1C26-K
2	SPDT	15 amps	.187 QC (4.75)	38.35	125gf	SW132-ND	1.88	1.69	1.50	V-15G2-1C26-K
2	SPDT	15 amps	.187 QC (4.75)	62.23	70gf	SW133-ND	2.05	1.85	1.64	V-15G3-1C25-K
2	SPDT	15 amps	.187 QC (4.75)	62.23	130gf	SW134-ND	2.05	1.85	1.64	V-15G3-1C26-K
4	SPDT	15 amps	.187 QC (4.75)	38.86	125gf	SW135-ND	1.98	1.78	1.58	V-15G4-1C25-K
3	SPDT	15 amps	.187 QC (4.75)	24.38	480gf	SW136-ND	2.25	2.03	1.80	V-15G5-1C26-K
3	SPDT	15 amps	.187 QC (4.75)	34.04	250gf	SW151-ND	2.25	2.03	1.80	V-15G6-1C26-K
D3V Series										
1	SPDT	11 amps	.187 QC	20.2	200gf	SW707-ND	1.75	1.58	1.40	D3V11G1C25K
2	SPDT	11 amps	.187 QC	35.6	125gf	SW708-ND	2.03	1.83	1.62	D3V11G21C25K
2	SPDT	11 amps	.187 QC	35.6	125gf	SW709-ND	1.98	1.78	1.58	D3V11G2M1C25K
4	SPDT	11 amps	.187 QC	32.6	125gf	SW710-ND	2.03	1.83	1.62	D3V11G41C25K
4	SPDT	11 amps	.187 QC	32.6	125gf	SW711-ND	1.98	1.78	1.58	D3V11G4M1C25K
3	SPDT	11 amps	.187 QC	34.0	125gf	SW712-ND	2.43	2.19	1.94	D3V11G61C25K
3	SPDT	11 amps	.187 QC	34.0	125gf	SW713-ND	2.23	2.01	1.78	D3V11G6M1C25K
1	SPDT	16 amps	.187 QC	20.2	200gf	SW700-ND	1.75	1.58	1.40	D3V16G1C25K
2	SPDT	16 amps	.187 QC	35.6	125gf	SW701-ND	2.03	1.83	1.62	D3V16G21C25K
2	SPDT	16 amps	.187 QC	35.6	125gf	SW702-ND	1.98	1.78	1.58	D3V16G2M1C25K
4	SPDT	16 amps	.187 QC	32.6	125gf	SW703-ND	2.03	1.83	1.62	D3V16G41C25K
4	SPDT	16 amps	.187 QC	32.6	125gf	SW704-ND	1.98	1.78	1.58	D3V16G4M1C25K
3	SPDT	16 amps	.187 QC	34.0	125gf	SW705-ND	2.43	2.19	1.94	D3V16G61C25K
3	SPDT	16 amps	.187 QC	34.0	125gf	SW706-ND	2.23	2.01	1.78	D3V16G6M1C25K

Fig.	Contact Style	Contact Rating	Terminal Size Inch (mm)	Dim. "X" (mm)	Actuation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
SS Miniature Series										
7	SPDT Gold	.1 amp	.110 QC (2.79)	13.46	50gf	SW138-ND	2.08	1.87	1.66	SS-01FT
5	SPDT Gold	.1 amp	.110 QC (2.79)	19.69	50gf	SW139-ND	2.30	2.07	1.84	SS-01GLT
7	SPDT Gold	.1 amp	PC Mount	13.46	150gf	SW155-ND	2.03	1.83	1.62	SS-01D
5	SPDT Gold	.1 amp	PC Mount	19.69	50gf	SW239-ND	2.00	1.80	1.60	SS-01GLD
6	SPDT Gold	.1 amp	PC Mount	21.59	50gf	SW240-ND	2.00	1.80	1.60	SS-01GL13D
8	SPDT Gold	.1 amp	PC Mount	19.61	50gf	SW343-ND	2.40	2.16	1.92	SS-01GL2D
7	SPDT	5 amps	.110 QC (2.79)	13.46	150gf	SW141-ND	1.35	1.22	1.08	SS-5T
5	SPDT	5 amps	.110 QC (2.79)	19.69	50gf	SW143-ND	1.23	1.11	.98	SS-5GLT
6	SPDT	5 amps	.110 QC (2.79)	21.59	50gf	SW144-ND	1.18	1.06	.94	SS-5GL13T
7	SPDT	5 amps	.110 QC (2.79)	13.46	50gf	SW142-ND	1.23	1.11	.98	SS-5FT
8	SPDT	5 amps	Solder	19.61	50gf	SW156-ND	1.45	1.31	1.16	SS-5GL2
7	SPDT	5 amps	PC Mount	13.46	150gf	SW241-ND	1.23	1.11	.98	SS-5D
5	SPDT	5 amps	PC Mount	19.69	50gf	SW242-ND	1.48	1.33	1.18	SS-5GLD
6	SPDT	5 amps	PC Mount	21.59	50gf	SW243-ND	1.53	1.38	1.22	SS-5GL13D
8	SPDT	5 amps	PC Mount	19.61	50gf	SW244-ND	1.73	1.56	1.38	SS-5GL2D
7	SPDT	10 amps	.110 QC (2.79)	13.46	150gf	SW245-ND	2.18	1.96	1.74	SS-10T
5	SPDT	10 amps	.110 QC (2.79)	19.69	50gf	SW246-ND	1.98	1.78	1.58	SS-10GLT
6	SPDT	10 amps	.110 QC (2.79)	21.59	50gf	SW247-ND	2.00	1.80	1.60	SS-10GL13T
8	SPDT	10 amps	.110 QC (2.79)	19.61	50gf	SW248-ND	2.23	2.01	1.78	SS-10GL2T
Watertight D2SW Series										
9	SPDT	3 amps	Solder	13.46	180gf	SW228-ND	2.53	2.28	2.02	D2SW-3HS
9	SPDT	3 amps	.110 QC (2.79)	13.46	180gf	SW229-ND	2.53	2.28	2.02	D2SW-3TS
9	SPDT	3 amps	PC Mount	13.46	180gf	SW291-ND	2.53	2.28	2.02	D2SW-3DS
9	SPDT	3 amps	12 Wires (304.8)	13.46	180gf	SW292-ND	4.18	3.76	3.34	D2SW-3MS
10	SPDT	3 amps	Solder	19.69	60gf	SW293-ND	2.68	2.41	2.14	D2SW-3L1HS

(Continued)

OMRON Basic Type Snap Switches *(Cont.)*

Fig.	Contact Style	Contact Rating	Terminal Size Inch (mm)	Dim. "X" (mm)	Actu-ation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
10	SPDT	3 amps	.110 QC (2.79)	19.69	60gf	SW294-ND	2.68	2.41	2.14	D2SW-3L1TS
10	SPDT	3 amps	12 Wires (304.8)	19.69	60gf	SW295-ND	4.35	3.92	3.48	D2SW-3L1MS
11	SPDT	3 amps	Solder	21.59	60gf	SW296-ND	2.68	2.41	2.14	D2SW-3L3HS
11	SPDT	3 amps	12 Wires (304.8)	21.59	60gf	SW297-ND	4.35	3.92	3.48	D2SW-3L3MS
12	SPDT	3 amps	Solder	19.61	60gf	SW237-ND	3.05	2.75	2.44	D2SW-3L2HS
12	SPDT	3 amps	12 Wires (304.8)	19.61	60gf	SW238-ND	4.60	4.14	3.68	D2SW-3L2MS
D2MQ Switches										
13	SPDT Silver	500mA	.05 (1.27)	6.00	120gf	SW145-ND	2.80	2.52	2.24	D2MQ-1
14	SPDT Silver	500mA	.05 (1.27)	7.70	60gf	SW146-ND	2.88	2.59	2.30	D2MQ-1L
D3C Series Switches										
15	Non-Short	.1 amp	PC Mount	8.69	130gf	SW224-ND	1.13	1.02	.90	D3C-1210
15	Shorting	.1 amp	PC Mount	8.69	130gf	SW226-ND	1.13	1.02	.90	D3C-2210
15	Non-Short	.1 amp	PC Mount	8.69	40gf	SW225-ND	1.13	1.02	.90	D3C-1220
15	Shorting	.1 amp	PC Mount	8.69	40gf	SW227-ND	1.13	1.02	.90	D3C-2220
D2F Series Switches										
16	SPDT	3 amps	PC Mount	5.18	150gf	SW500-ND	1.00	.90	.80	D2F
16	SPDT	.1 amp	PC Mount	5.18	150gf	SW501-ND	1.00	.90	.80	D2F-01
16	SPDT	.1 amp	PC Mount	5.18	75gf	SW502-ND	1.00	.90	.80	D2F-01F
16	SPDT	3 amps	PC Mount	5.18	75gf	SW503-ND	.95	.86	.76	D2F-F
D2F Lever Series										
17	SPDT	3 amps	PC Mount	13.97	80gf	SW152-ND	1.10	.99	.88	D2F-L
17	SPDT	3 amps	PC Mount	13.97	25gf	SW153-ND	1.10	.99	.88	D2F-FL
17	SPDT	.1 amp	PC Mount	13.97	80gf	SW154-ND	1.10	.99	.88	D2F-01L
Watertight D2VW Series Switches										
18	SPDT	.1 amp	.187 QC (4.75)	—	200gf	SW427-ND	3.55	3.20	2.84	D2VW-01-1HS
18	SPDT	.1 amp	12 wires (304.8)	—	200gf	SW428-ND	7.28	6.55	5.82	D2VW-01-1MS
19	SPDT	.1 amp	.187 QC (4.75)	59	120gf	SW429-ND	4.25	3.83	3.40	D2VW-01L1-1HS
19	SPDT	.1 amp	12 wires (304.8)	59	120gf	SW430-ND	7.63	6.87	6.10	D2VW-01L1-1MS
20	SPDT	.1 amp	.187 QC (4.75)	34	120gf	SW431-ND	5.68	5.11	4.54	D2VW-01L2-1HS
20	SPDT	.1 amp	12 wires (304.8)	34	120gf	SW432-ND	7.43	6.69	5.94	D2VW-01L2-1MS
18	SPDT	5 amps	.187 QC (4.75)	—	200gf	SW433-ND	3.40	3.06	2.72	D2VW-5-1HS
18	SPDT	5 amps	12 wires (304.8)	—	200gf	SW434-ND	5.63	5.07	4.50	D2VW-5-1MS
19	SPDT	5 amps	.187 QC (4.75)	59	120gf	SW435-ND	3.55	3.20	2.84	D2VW-5L1-1HS
19	SPDT	5 amps	12 wires (304.8)	59	120gf	SW436-ND	5.48	4.93	4.38	D2VW-5L1-1MS
20	SPDT	5 amps	.187 QC (4.75)	34	120gf	SW437-ND	3.78	3.40	3.02	D2VW-5L2-1HS
20	SPDT	5 amps	12 wires (304.8)	34	120gf	SW438-ND	5.85	5.27	4.68	D2VW-5L2-1MS

Fig.	Contact Style	Contact Rating	Terminal Size Inch (mm)	Dim. "X" (mm)	Actu-ation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Watertight D2FW Series Switches										
21	SPST-NO	.1 amp	12 wires (304.8)	22.8	250gf	SW511-ND	3.48	3.13	2.78	D2FW-G073M
21	SPST-NO	1 amp	12 wires (304.8)	22.8	250gf	SW512-ND	3.48	3.13	2.78	D2FW-G273M
21	SPST-NO	.1 amp	12 wires (304.8)	19.0	300gf	SW513-ND	4.28	3.85	3.42	D2FW-G083M
21	SPST-NO	1 amp	12 wires (304.8)	19.0	300gf	SW514-ND	3.48	3.13	2.78	D2FW-G283M
D2HW Miniature Sealed Switches										
22A	SPDT	2A	Rt. Ang. PCB	4	76gf	SW714-ND	2.43	2.19	1.94	D2HWBR201DR
22B	SPDT	2A	Rt. Ang. PCB	4	76gf	SW715-ND	2.43	2.19	1.94	D2HWBL201DL
22C	SPDT	2A	Straight PCB	4	76gf	SW716-ND	2.43	2.19	1.94	D2HWA201D
22A	SPDT	2A	Down Wire leads	4	76gf	SW719-ND	4.93	4.44	3.94	D2HWBR201M
22B	SPDT	2A	Down Wire leads	4	76gf	SW720-ND	4.93	4.44	3.94	D2HWBL201M
22D	SPDT	2A	Down Wire leads	4	76gf	SW721-ND	5.43	4.89	4.34	D2HWC201M
23A	SPDT	2A	Rt. Ang. PCB	13	61gf	SW717-ND	2.58	2.32	2.06	D2HWBR211DR
23A	SPDT	2A	Down Wire leads	13	61gf	SW722-ND	5.18	4.66	4.14	D2HWBR211M
23B	SPDT	2A	Down Wire leads	13	61gf	SW723-ND	5.18	4.66	4.14	D2HWBL211M
23D	SPDT	2A	Down Wire leads	13	61gf	SW724-ND	5.60	5.04	4.48	D2HWC211M
23A	SPST-NC	2A	Right Wire leads	13	61gf	SW725-ND	5.18	4.66	4.14	D2HWBR212MR
23B	SPST-NC	2A	Right Wire leads	13	61gf	SW726-ND	5.18	4.66	4.14	D2HWBL212MR
23D	SPST-NC	2A	Right Wire leads	13	61gf	SW727-ND	5.60	5.04	4.48	D2HWC212MR
23A	SPST-NO	2A	Right Wire leads	13	61gf	SW728-ND	5.18	4.66	4.14	D2HWBR213MR
23B	SPST-NO	2A	Right Wire leads	13	61gf	SW729-ND	5.18	4.66	4.14	D2HWBL213MR
23C	SPST-NO	2A	Right Wire leads	13	61gf	SW730-ND	5.60	5.04	4.48	D2HWC213MR
23A	SPST-NC	2A	Left Wire leads	13	61gf	SW731-ND	5.18	4.66	4.14	D2HWBR212ML
23B	SPST-NC	2A	Left Wire leads	13	61gf	SW732-ND	5.18	4.66	4.14	D2HWBL212ML
23A	SPST-NO	2A	Left Wire leads	13	61gf	SW733-ND	5.18	4.66	4.14	D2HWBR213ML
23B	SPST-NO	2A	Left Wire leads	13	61gf	SW734-ND	5.18	4.66	4.14	D2HWBL213ML
24A	SPDT	2A	Down Wire leads	16	61gf	SW737-ND	5.18	4.66	4.14	D2HWBR231M
24B	SPDT	2A	Down Wire leads	16	61gf	SW738-ND	5.18	4.66	4.14	D2HWBL231M
23B	SPDT	2A	Rt. Ang. PCB	20	41gf	SW718-ND	2.58	2.32	2.06	D2HWBL221DL
23A	SPDT	2A	Down Wire leads	20	41gf	SW735-ND	5.18	4.66	4.14	D2HWBR221M
23B	SPDT	2A	Down Wire leads	20	41gf	SW736-ND	5.18	4.66	4.14	D2HWBL221M
25A	SPDT	2A	Down Wire leads	8	183gf	SW739-ND	5.18	4.66	4.14	D2HWBR261M
25B	SPDT	2A	Down Wire leads	8	183gf	SW740-ND	5.18	4.66	4.14	D2HWBL261M
24A	SPDT	2A	Down Wire leads	16	183gf	SW741-ND	5.18	4.66	4.14	D2HWBR271M
24B	SPDT	2A	Down Wire leads	16	183gf	SW742-ND	5.18	4.66	4.14	D2HWBL271M
26A	SPDT	2A	Down Wire leads	20.85	92gf	SW743-ND	5.18	4.66	4.14	D2HWBR281M
26B	SPDT	2A	Down Wire leads	20.85	92gf	SW744-ND	5.18	4.66	4.14	D2HWBL281M

Basic Switch

Omron's "Z" Series switches feature 15A contacts which directly switches such loads as motors, halogen lamps and solenoids. Omron's "A" Series has the same body yet switches 20A loads with large inrush currents. All switches feature screw terminal connections and are UL listed CSA certified. Both series are momentary action, SPDT versions.

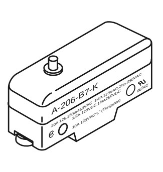


Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

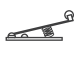


Fig. 8

Fig.	Operating Force g max.	Switch Current (A)	Actuator Type	Actuator Length (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	350	15	Pin Plunger	—	SW190-ND	6.85	6.17	5.48	Z15G-B
2	350	15	Spring Plunger	—	SW191-ND	8.43	7.59	6.74	Z15GD-B
3	350	15	Panel Plunger	—	SW192-ND	11.50	10.35	9.20	Z15GQ-B
4	350	15	Panel Roller	—	SW193-ND	13.58	12.22	10.86	Z15GQ21-B
5	350	15	Panel Roller	—	SW194-ND	13.58	12.22	10.86	Z15GQ22-B
6	70	15	Lever	63.50	SW195-ND	9.20	8.28	7.36	Z15GW-B
7	100	15	Roller Lever	48.49	SW196-ND	9.20	8.28	7.36	Z15GW2-B
8	160	15	Roller Lever	26.59	SW197-ND	8.60	7.74	6.88	Z15GW22-B
6	6	15	Low Force Lever	63.50	SW198-ND	9.50	8.55	7.60	Z15HW24-B7-K
1	625	20	Pin Plunger	—	SW230-ND	9.28	8.35	7.42	A20G-B7-K
6	70	20	Lever	63.50	SW231-ND	9.33	8.40	7.46	A20GV-B7-K
7	90	20	Roller Lever	48.49	SW232-ND	9.33	8.40	7.46	A20GV2-B7-K
3	625	20	Panel Plunger	—	SW233-ND	14.10	12.69	11.28	A20GQ-B7-K
8	160	20	Roller Lever	26.59	SW234-ND	10.03	9.03	8.02	A20GV22-B7-K
Phenolic Terminal Cover for A/Z Series					SW235-ND	.88	.79	.70	AP-B
Terminal Cover with Strain Relief for A/Z Series					SW236-ND	4.53	4.08	3.62	AP-Z

D4C Industrial Sealed Limit Switch

Omron's D4C series limit switches are industrial enclosed limit switches with rugged diecast housing, triple sealed construction and prewired 10' cable. Perfect for harsh environments and indoor/outdoor uses where small size is a consideration.

Fig.	Operating Force g. max.	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	1200	5	Pin Plunger	Z1055-ND	53.07	49.14	45.87	D4C-1601
2	1200	5	Roller Plunger	Z1056-ND	53.07	49.14	45.87	D4C-1602
3	580	5	Roller Lever	Z1057-ND	64.86	60.06	56.06	D4C-1620

Fig. 1

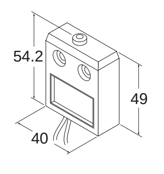


Fig. 2

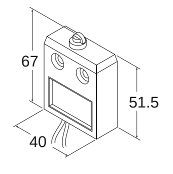
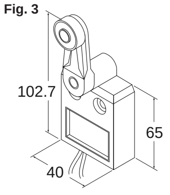


Fig. 3



ZE Industrial Sealed High Capacity Switch

Long service life, rugged die cast housing sealed industrial switches with a high capacity contact (15A). NEMA sealed for extremely long service life (SPDT 15A @ 125VAC).

Fig.	Operating Force g. max.	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	640	15	Roller Arm Lever	Z1058-ND	40.37	37.38	34.89	ZE-NA2-2S
2	150	15	Coil Spring	Z1059-ND	41.28	38.22	35.68	ZE-NJ-2S
3	800	15	Plunger	Z1060-ND	31.30	28.98	27.05	ZE-N-2S
4	500	15	Roller Plunger	Z1061-ND	43.09	39.90	37.24	ZE-N22-2S

Fig. 1

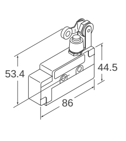


Fig. 2

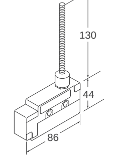


Fig. 3

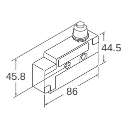
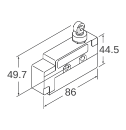
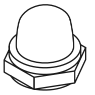


Fig. 4



APM HEXSEAL

Push Button Switch Boots



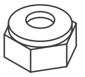
APM's sealing boots are designed to protect your switches and potentiometers from hostile environments without compromising or interfering with the switches basic function. Boots create a full environmental seal even under high-pressure washdowns. Each seal is made from a tough, high tear strength elastomer that is resistant to most chemicals, lubricants, acids and solvents. UL and CSA recognized which facilitate easier agency listings and most Hexseals are QPL approved under MIL-B-5423.

Thread Size	Throat Size (I.D.) Inch (mm)	Plunger Height Inch (mm)	Color	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
15/32-32NS-2B	.422 (10.72)	.281 (7.14)	Gray	335-1009-ND	3.18	2.55	2.02	N3030
15/32-32NS-2B		.438 (11.13)	Gray	335-1008-ND	3.18	2.55	2.02	NC3030
7/16-28UNEF-2B		.438 (11.13)	Clear	335-1013-ND	3.66	2.93	2.32	NC303 7/16-28(CLR)

Rotary Shaft Seals

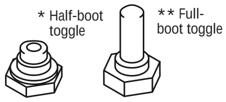
APM's rotary switch and potentiometer seals surround the shaft and form a watertight, and dust tight seal against the shaft and front panel surface. Color: Gray

Thread Size	Max. Shaft Size Inch. (mm)	Hex Nut Flat Inch. (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
3/8-32NEF-2B	.250 (6.35)	.500 (12.70)	335-1016-ND	2.91	2.33	1.85	N9030x1/4



Toggle Switch Boots

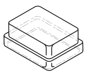
Hexseal toggle switch boots are molded from a high tear strength, silicon rubber bonded to a built-in mounting nut. Each encloses the base of the protruding switch bushing and forms a water and dust tight seal against the front panel surface.



Thread Size	Throat (I.D.) Inch (mm)	Height Inch (mm)	Color	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
15/32-32NS-2B	.078 (1.98)	.437 (11.10)	Gray	335-1007-ND*	3.18	2.55	2.02	N1030B
1/4-40NS-2B	.047 (1.19)	.250 (6.35)	Gray	335-1006-ND*	3.81	3.05	2.42	N5032B
15/32-32NS-2B	.219 (5.56)	.844 (21.44)	Gray	335-1005-ND**	3.18	2.55	2.02	N1030
1/4-40NS-2B	.062 (1.57)	.594 (15.09)	Gray	335-1001-ND**	3.78	3.03	2.40	N5030S
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Red	335-1002-ND**	4.26	3.41	2.70	N5030L(Red)
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Black	335-1003-ND**	4.26	3.41	2.70	N5030L(Black)

Transparent Rocker Switch Seals

Seals without compromising switch operation, position status viewing or legend visibility.

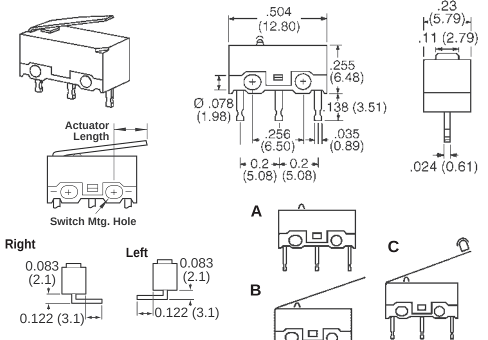


Max. Rocker Actuator Len. Inch (mm)	Max. Rocker Actuator Wid. Inch (mm)	Max. Rocker Above Panel Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
.750 (19.05)	.531 (13.49)	.228 (5.79)	335-1011-ND	1.98	1.59	1.26	C1113/66(Clear)

CHERRY® Snap Type Switches

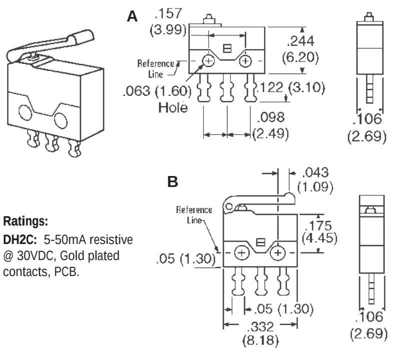
UL Recognized and CSA Certified

Fig. 1 Subminiature – DG Series



Ratings: **DG1:** 2 amps 30VDC, PCB.
DG2: 50mA 30VDC,PCB.

Fig. 2 Ultra-Subminiature – DH Series



Ratings:
DH2C: 5-50mA resistive @ 30VDC, Gold plated contacts, PCB.

Fig. 3 Water and Dust Sealed – DC Series

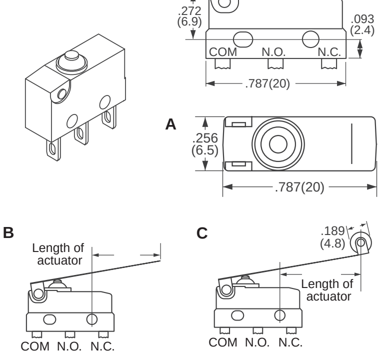


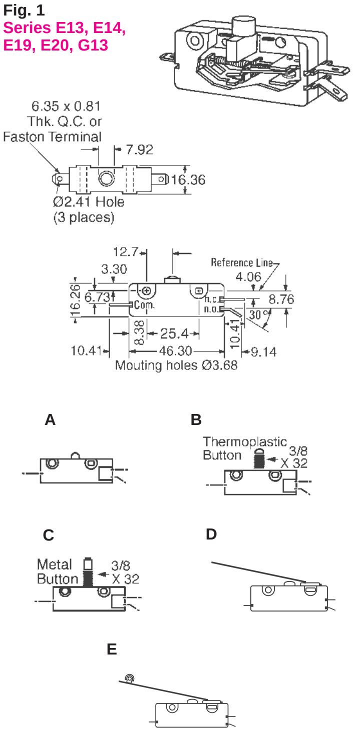
Fig.	Description	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch(mm)	Oper. Force (max gms.)	Digi-Key Part No.	Price Each					Cherry Part No.
									1	10	50	100	500	
1A	Subminiature DG Series	SPDT	5 - 50mA	Vertical PCB	Button	—	140	CH167-ND	3.70	3.29	2.74	2.24	2.06	DG23-B1AA
1A				Right Angle - PCB	Button	—	140	CH620-ND	3.81	3.39	2.82	2.30	2.12	DG23-B2AA
1A				Left Angle - PCB	Button	—	140	CH623-ND	3.81	3.39	2.82	2.30	2.12	DG23-B3AA
1B				Vertical PCB	Lever	.169 (4.29)	45	CH168-ND	3.81	3.39	2.82	2.30	2.12	DG23-B1LA
1B				Right Angle - PCB	Lever	0.169	140	CH621-ND	3.94	3.51	2.92	2.38	2.19	DG23-B2LA
1B				Left Angle - PCB	Lever	0.169	140	CH624-ND	3.94	3.51	2.92	2.38	2.19	DG23-B3LA
1C				Vertical PCB	Roller Lever	.075 (1.91)	45	CH169-ND	3.94	3.51	2.92	2.38	2.19	DG23-B1RA
1C				Right Angle - PCB	Roller Lever	0.075	140	CH622-ND	4.08	3.63	3.02	2.46	2.27	DG23-B2RA
1C				Left Angle - PCB	Roller Lever	0.075	140	CH625-ND	4.08	3.63	3.02	2.46	2.27	DG23-B3RA
1A		SPDT	3A	Vertical PCB	Button	—	140	CH164-ND	3.40	3.03	2.52	2.06	1.89	DG13-B1AA
1B					Lever	.169 (4.29)	45	CH165-ND	3.56	3.17	2.64	2.16	1.98	DG13-B1LA
1C					Roller Lever	.075 (1.91)	45	CH166-ND	3.70	3.29	2.74	2.24	2.06	DG13-B1RA
1A		SPDT	3A	Right Angle - PCB	Button	—	140	CH617-ND	3.56	3.17	2.64	2.15	1.98	DG13-B2AA
1B				Right Angle - PCB	Lever	0.169		CH618-ND	3.70	3.29	2.74	2.23	2.06	DG13-B2LA
1C				Left Angle - PCB	Roller Lever	0.075		CH619-ND	3.81	3.39	2.82	2.30	2.12	DG13-B3RA
2A	Ultra-Subminiature DH Series	SPDT	5 - 50mA	Vertical PCB	Button	—	90	CH172-ND	4.97	4.42	3.68	3.00	2.76	DH2C-B1AA
2B				Vertical PCB	Lever	—	50	CH173-ND	5.13	4.56	3.80	3.10	2.85	DH2C-B1PA
2B				Right Angle Solder	Lever	.043 (1.09)	50	CH295-ND	5.24	4.66	3.88	3.17	2.91	DH2C-B2PA
2B				Left Angle Solder	Lever	.043 (1.09)	50	CH296-ND	5.24	4.66	3.88	3.17	2.91	DH2C-B3PA
3A	Sealed DC Series Water & Dust	SPDT	0.1A	Solder Eyelet	Button	—	347	CH293-ND	5.99	5.33	4.44	3.62	3.33	DC3C-A1AA
3A				Wire 18AWG Leads	Button	—	204	CH614-ND	17.90	15.92	13.25	10.80	9.94	DC3C-D5AA
3A				Left Angle - PCB	Button	—	204	CH615-ND	3.73	3.32	2.75	2.24	2.06	DC3C-K7AA
3A				Wire 20AWG Leads	Button	—	204	CH616-ND	17.90	15.92	13.25	10.80	9.94	DC3C-M3AA
3B				Solder Eyelet	Lever	0.189	204	CH613-ND	7.37	6.56	5.46	4.45	4.10	DC3C-A1LB
3A		SPDT	5A	Solder Eyelet	Button	—	204	CH290-ND	4.08	3.63	3.03	2.47	2.27	DC1C-A1AA
3A				Wire 18AWG Leads	Button	—		CH607-ND	12.85	11.43	9.51	7.75	7.13	DC1C-D5AA
3A				Right Angle - PCB	Button	—		CH608-ND	3.62	3.22	2.69	2.19	2.02	DC1C-K6AA
3B				Solder Eyelet	Lever	.189 (4.80)		CH291-ND	4.54	4.04	3.36	2.74	2.52	DC1C-A1LB
3B				.110 (2.79) QC	Lever	0.276		CH609-ND	4.40	3.92	3.26	2.65	2.44	DC1C-L1LC
3C				Solder Eyelet	Roller Lever	0.098		CH606-ND	8.72	7.76	6.47	5.27	4.85	DC1C-A1RB
3A		SPDT	10.1A	Solder Eyelet	Button	—	347	CH292-ND	4.51	4.01	3.34	2.73	2.51	DC2C-A1AA
3B				Solder Eyelet	Lever	0.189		CH610-ND	5.32	4.73	3.95	3.22	2.96	DC2C-A1LB
3A				Wire 16AWG Leads	Button	—		CH611-ND	15.04	13.37	11.13	9.07	8.35	DC2C-E5AA
3B				Wire 16AWG Leads	Lever	0.189		CH612-ND	15.61	13.88	11.55	9.41	8.66	DC2C-E5LB
—	Replacement Actuator			Standard Lever for 1LB/1MB Suffix				CH657-ND	.16	.15	.12	.11	.10	0014-5576
				Simulated Roller Lever for 1SB/1UB Suffix				CH658-ND	.16	.15	.12	.11	.10	0014-5594
				Standard Lever for DC Series, LB Suffix				CH667-ND	.16	.15	.12	.11	.10	0614-1232
				Standard Lever for DC Series, LC Suffix				CH668-ND	.16	.15	.12	.11	.10	0614-1233
				Extra Long Roller Lever, LD Suffix				CH669-ND	.41	.36	.30	.26	.24	0614-1234
				Roller Lever for DC Series, RB Suffix				CH673-ND	.68	.60	.50	.44	.40	0714-0260
				Roller Lever for DC Series, RC Suffix				CH674-ND	.68	.60	.50	.44	.40	0714-0261
				Roller Lever for DC Series, RD Suffix				CH675-ND	.70	.63	.52	.45	.42	0714-0262

Snap and Lever Type Switches

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Cherry Part No.
General Purpose — E13, E14, E19, E20 and G13 Power Series											
1B	SPDT	0.1A	.250 QC (6.35)	Threaded Bushing	—	425	CH573-ND	5.56	4.95	4.12	G13-00J
1C				Threaded Bushing	—	425	CH574-ND	6.40	5.69	4.74	G13-00M
1D				Long Lever	1.5 (38.10)	100	CH572-ND	5.97	5.31	4.43	G13-00H
1D				Long Lever	1.75 (44.45)	65	CH575-ND	5.97	5.31	4.43	G13-50H
1A	SPDT	15A	.250 QC (6.35)	Plastic Button	—	425	CH102-ND	2.78	2.48	2.06	E13-00E
1B				THD Bushing/Plastic Button	—	425	CH100-ND	3.11	2.76	2.31	E13-00J
1C				THD Bushing/Metal Button	—	425	CH101-ND	3.92	3.48	2.91	E13-00M
1D				Long Lever	1.5 (38.10)	100	CH312-ND	3.81	3.39	2.83	E13-00H
				Long Lever	1.75 (44.45)	65	CH314-ND	3.81	3.39	2.83	E13-50H
1E				Long Roller	1.391 (35.33)	100	CH313-ND	4.59	4.08	3.40	E13-00K
				Roller	1.645 (41.78)	65	CH502-ND	4.59	4.08	3.40	E13-50K
1D	DPDT	20A	.250 QC (6.35)	Long Lever	.821 (20.85)	425	CH505-ND	9.59	8.52	7.11	E20-00H
				Long Lever	1.071 (27.20)	285	CH506-ND	9.59	8.52	7.11	E20-50H
1E				Button	—	1280	CH327-ND	8.75	7.78	6.49	E20-00A
1A	SPDT	25A	.250 QC (6.35)	Plastic Button	—	850	CH315-ND	3.48	3.10	2.58	E14-00A
1C				THD Bushing/Metal Button	—	850	CH318-ND	4.67	4.16	3.47	E14-00M
1D				Short Lever	.821 (20.85)	285	CH316-ND	4.73	4.20	3.51	E14-00H
				Long Lever	1.071 (27.20)	170	CH319-ND	4.64	4.13	3.45	E14-50H
1E				Short Roller	.652 (16.56)	285	CH317-ND	5.29	4.71	3.92	E14-00K
				Roller	.902 (22.9)	170	CH503-ND	5.29	4.71	3.91	E14-50K
1A	DPDT	15A	.250 QC (6.35)	Plastic Button	—	850	CH320-ND	5.83	5.19	4.33	E19-00A
1B				THD Bushing/Plastic Button	—	850	CH322-ND	6.26	5.57	4.64	E19-00J
1C				THD Bushing/Metal Button	—	850	CH324-ND	6.62	5.88	4.91	E19-00M
1D				Long Lever	1.5 (38.10)	205	CH321-ND	6.97	6.20	5.15	E19-00H
				Long Lever	1.75 (44.45)	130	CH325-ND	6.40	5.69	4.74	E19-50H
1E				Long Roller	1.391 (35.33)	212	CH323-ND	7.99	7.11	5.92	E19-00K
				Long Roller	1.645 (41.78)	150	CH326-ND	8.07	7.18	5.98	E19-50K
1C	DPDT	20A	.250 QC (6.35)	THD Bushing/Metal Button	—	850	CH329-ND	9.75	8.67	7.21	E20-00M
1E				Short Roller	.652 (16.56)	425	CH328-ND	10.29	9.15	7.63	E20-00K
				Long Roller	1.391 (35.33)	212	CH330-ND	10.85	9.65	8.04	E20-50K
1A	SPST-N/O	15A	.250 QC (6.35)	Button	—	425	CH500-ND	2.78	2.48	2.06	E13-01E
1D				Long Lever	1.5 (38.10)	100	CH501-ND	3.81	3.39	2.82	E13-01H
Brass Mounting Nut for Threaded Bushing							CH284-ND	.14	.12	.10	0012-0023
Knurled Dress Nut Brass for J/M E13/19/G13							CH651-ND	1.43	1.28	1.06	0012-0025
Hex Nut Nickel Plated for J/M E13/19/G13							CH652-ND	.16	.15	.12	0012-0028
Lock Washer for J/M E13/E19/G13							CH653-ND	.22	.20	.16	0012-0073
Low Torque — E51 and E53 Series											
2A	SPDT	.1A	Right Angle .205 QC (5.21)	CW Lever	—	4	CH150-ND	11.18	9.94	8.27	E53-00B
			.187 QC (4.75)	CW Lever	—	4	CH152-ND	12.26	10.90	9.08	E53-00R
2B			.187 QC (4.75)	CCW Lever	—	4	CH153-ND	12.26	10.90	9.08	E53-00T
2A	SPDT	6A	.187 QC (4.75)	CW Lever	—	4	CH364-ND	9.37	8.33	6.93	E51-50R
			.187 QC (4.75)	CW Lever	—	4	CH148-ND	9.37	8.33	6.93	E51-00R
			Vert. Straight .187 QC (4.75)	CW Lever	—	4	CH540-ND	7.67	6.82	5.67	E51-60R
			Vert. Twist .205 QC (5.21)	CW Lever	—	4	CH536-ND	9.37	8.33	6.93	E51-50B
			Vert. Straight .205 QC (5.21)	CW Lever	—	4	CH538-ND	7.67	6.82	5.67	E51-60B
			.205 QC (5.21)	CW Lever	—	4	CH146-ND	9.37	8.33	6.93	E51-00B
2B			.187 QC (4.75)	CCW Lever	—	4	CH149-ND	9.37	8.33	6.93	E51-00T
			.187 QC (4.75)	CCW Lever	—	4	CH365-ND	9.37	8.33	6.93	E51-50T
			.205 QC (5.21)	CCW Lever	—	4	CH147-ND	9.37	8.33	6.93	E51-00E
			Vert. Twist .205 QC (5.21)	CCW Lever	—	4	CH537-ND	9.37	8.33	6.93	E51-50E
			Vert. Straight .205 QC (5.21)	CCW Lever	—	4	CH539-ND	9.07	8.07	6.72	E51-60E
Actuator Wire Form for E51/E53							CH655-ND	.16	.15	.12	0014-0645
Subminiature — E61, E62, E63 Series											
3A	SPDT	.1A	.093 QC (2.36)	Plunger Only	—	90	CH380-ND	6.94	6.17	5.14	E63-00A
			.110 QC (2.36)	Plunger Only	—	90	CH554-ND	6.35	5.64	4.71	E63-30A
			Solder Eyelet	Plunger Only	—	90	CH383-ND	5.94	5.28	4.40	E63-10A
3B			.093 QC (2.36)	Lever Std. Ratio	.271 (6.88)	27	CH381-ND	7.56	6.72	5.61	E63-00H
			.093 QC (2.36)	Lever Std. Ratio	.396 (10.06)	9	CH384-ND	7.56	6.72	5.61	E63-50H
			Solder Eyelet	Long Lever	.271 (6.88)	27	CH551-ND	7.56	6.72	5.61	E63-10H
			Solder Eyelet	Long Lever	.396 (10.06)	9	CH557-ND	7.56	6.72	5.61	E63-60H
3C			Solder Eyelet	Roller Lever	.201 (5.11)	30	CH552-ND	8.10	7.20	5.99	E63-10K
			.093 QC (2.36)	Roller Lever	.201 (5.11)	30	CH382-ND	8.10	7.20	6.00	E63-00K
			.110 QC (2.79)	Roller Lever	.201 (5.11)	30	CH555-ND	8.10	7.20	5.99	E63-30K
			.110 QC (2.79)	Roller Lever	.326 (8.28)	10	CH558-ND	8.10	7.20	5.99	E63-80K
3D			.093 QC (2.36)	Sim. Roller Lever	.197 (5.0)	30	CH550-ND	7.80	6.94	5.78	E63-00R
			Solder Eyelet	Sim. Roller Lever	.197 (5.0)	30	CH553-ND	7.80	6.94	5.78	E63-10R
3A	SPDT	5A	.093 QC (2.36)	Plunger Only	—	90	CH103-ND	3.32	2.96	2.47	E61-00A
			.110 QC (2.79)	Plunger Only	—	90	CH370-ND	3.32	2.96	2.47	E61-30A
			Solder Eyelet	Plunger Only	—	90	CH104-ND	3.32	2.96	2.47	E61-10A
3B			.093 QC (2.36)	Lever Std. Ratio	.271 (6.88)	27	CH105-ND	4.78	4.25	3.54	E61-00H
			.110 QC (2.79)	Lever Std. Ratio	.271 (6.88)	27	CH371-ND	4.78	4.25	3.54	E61-30H
			Solder Eyelet	Lever Std. Ratio	.271 (6.88)	27	CH106-ND	4.78	4.25	3.54	E61-10H
			.093 QC (2.36)	Lever Std. Ratio	.396 (10.06)	9	CH373-ND	4.78	4.25	3.54	E61-50H
			Solder Eyelet	Long Lever	.396 (10.06)	9	CH542-ND	4.78	4.25	3.53	E61-60H

(Continued)

Fig. 1
Series E13, E14, E19, E20, G13



Ratings:

E13: 15A – 125/250VAC, 3/4 HP – 125VAC, 1-1/2 HP – 250VAC

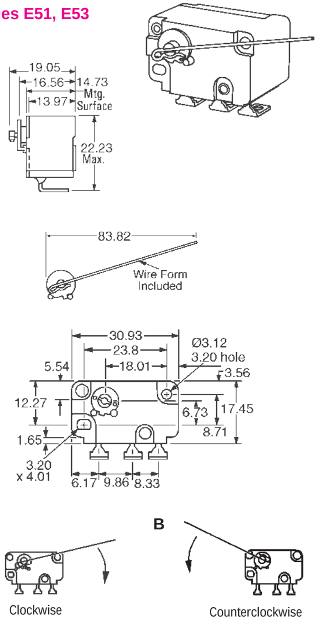
E14: 25A – 125/250VAC, 1 HP – 125VAC, 2 HP – 250VAC

E19: 15A – 125/250VAC, 3/4 HP – 125VAC

E20: 20A – 125/250VAC, 1 HP – 125 VAC

G13: 0.1A – 125VAC. Gold crosspoint contacts.

Fig. 2
Series E51, E53



Ratings:

E51: 6 amps 250VAC

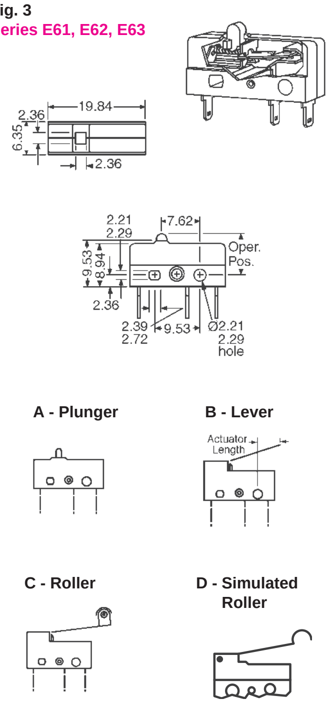
E53: 0.1 amps 125VAC. Gold crosspoint contacts. Operating Torque: Standard force – 4.0 inch grams. Overtravel: 15° min. Movement differential: 3° min.

CHERRY Snap and Lever Type Switches *(Cont.)*

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each			Cherry Part No.
								1	10	50	
Subminiature — E61, E62, E63 Series (cont.)											
3C	SPDT	5A	.093 QC (2.36)	Roller Std. Ratio	.201 (5.11)	30	CH107-ND	5.08	4.52	3.77	E61-00K
			Solder Eyelet	Roller Std. Ratio	.201 (5.11)	30	CH108-ND	5.08	4.52	3.77	E61-10K
			.110 QC (2.79)	Roller Lever	.201 (5.11)	30	CH372-ND	5.08	4.52	3.77	E61-30K
			.110 QC (2.79)	Roller Lever	.326 (8.28)	10	CH544-ND	5.08	4.52	3.77	E61-80K
			.093 QC (2.36)	Roller Lever	.326 (8.28)	10	CH374-ND	5.08	4.52	3.77	E61-50K
			Solder Eyelet	Roller Lever	.326 (8.28)	10	CH543-ND	5.08	4.52	3.77	E61-60K
3A	SPDT	10.1A	.093 QC (2.36)	Plunger Only	—	212	CH109-ND	3.75	3.34	2.79	E62-00A
			.110 QC (2.79)	Plunger Only	—	212	CH377-ND	3.75	3.34	2.79	E62-30A
			Solder Eyelet	Plunger Only	—	212	CH110-ND	3.75	3.34	2.79	E62-10A
3B			.093 QC (2.36)	Lever Std. Ratio	.271 (6.88)	56	CH111-ND	4.78	4.25	3.54	E62-00H
			Solder Eyelet	Lever Std. Ratio	.271 (6.88)	56	CH112-ND	4.78	4.25	3.54	E62-10H
3C			.093 QC (2.36)	Roller Std. Ratio	.201 (5.11)	65	CH113-ND	5.48	4.88	4.07	E62-00K
			Solder Eyelet	Roller Std. Ratio	.201 (5.11)	65	CH114-ND	5.48	4.88	4.07	E62-10K
			.110 QC (2.79)	Roller Lever	.201 (5.11)	65	CH378-ND	5.48	4.88	4.07	E62-30K
			.093 QC (2.36)	Roller Lever	.326 (8.28)	33	CH379-ND	5.48	4.88	4.07	E62-50K
3A	SPDT	10.1A	PC Mount	Plunger Only	—	212	CH545-ND	3.75	3.34	2.78	E62-50A
3B			.093 QC (2.36)	Long Lever	.396 (10.06)	20	CH546-ND	4.78	4.25	3.53	E62-50H
			Solder Eyelet	Long Lever	.396 (10.06)	20	CH547-ND	4.78	4.25	3.53	E62-60H
3C			Solder Eyelet	Roller Lever	.326 (8.28)	33	CH548-ND	5.48	4.88	4.07	E62-60K
			.110 QC (2.79)	Long Lever	.396 (10.06)	20	CH549-ND	4.78	4.25	3.53	E62-80H
Replacement Actuator Lever, 2.163" (54.94mm) Long							CH654-ND	.24	.22	.18	0014-0134
Subminiature Snap Switches— DA3 Series											
4A	SPDT	.1A	.110 QC (2.79)	Plunger Only	—	90	CH285-ND	3.73	3.32	2.76	DA3C-B1AA
			.093 QC (2.36)	Plunger Only	—	90	CH140-ND	3.65	3.24	2.70	DA3C-F1AA
			Solder Eyelet	Plunger Only	—	90	CH141-ND	2.97	2.64	2.20	DA3C-D1AA
			PC Mount	Plunger Only	—	90	CH287-ND	4.48	3.99	3.32	DA3C-H1AA
4B			.093 QC (2.36)	Lever Std. Ratio	.271 (6.88)	27	CH142-ND	5.51	4.90	4.08	DA3C-F1LB
			Solder Eyelet	Lever Std. Ratio	.271 (6.88)	27	CH143-ND	5.75	5.12	4.26	DA3C-D1LB
			.110 QC (2.79)	Lever - Standard Ratio	.271 (6.88)	27	CH599-ND	5.75	5.12	4.26	DA3C-B1LB
			Solder Eyelet	Lever - High Ratio	.396 (10.06)	9	CH602-ND	5.75	5.12	4.26	DA3C-D1MB
4C			.093 QC (2.36)	Roller Std. Ratio	.201 (5.11)	30	CH144-ND	5.94	5.28	4.40	DA3C-F1RB
			Solder Eyelet	Roller Std. Ratio	.201 (5.11)	30	CH145-ND	5.94	5.28	4.40	DA3C-D1RB
			.110 QC (2.79)	Roller - Standard Ratio	.201(5.11)	30	CH600-ND	6.21	5.52	4.60	DA3C-B1RB
4D			.110 QC (2.79)	Simulated Roller	.197 (5.00)	30	CH286-ND	5.99	5.33	4.44	DA3C-B1SB
			Solder Eyelet	Sim. Roller - Standard Ratio	.197 (5.00)	30	CH603-ND	5.75	5.12	4.26	DA3C-D1SB
			.093 QC (2.36)	Sim. Roller - High Ratio	.235 (5.97)	10	CH604-ND	5.94	5.28	4.40	DA3C-F1UA
Replacement Actuator Lever, 3.066" (77.88mm) Extra Long..							CH656-ND	.27	.24	.20	0014-5519
Panel Mount Push Button — E68, E69, E78, E79 and F79 Series											
5A	SPDT	.1A	.187 QC (4.75)	Momentary	.845 (21.46)	425	CH386-ND	5.24	4.66	3.89	E68-00A
5B				Momentary Cheat Interlock	.730 (18.54)	385	CH387-ND	5.54	4.92	4.10	E68-30A
5C				Short Button Mom.	.420 (10.67)	425	CH388-ND	5.67	5.04	4.20	E68-40A
5D				Auxiliary Push Button	.4 (10.16)	425	CH560-ND	5.81	5.16	4.31	E68-50A
5A	SPDT	10A	.187 QC (4.75)	Momentary	.875 (22.23)	425	CH154-ND	3.70	3.29	2.73	E69-00A
				Momentary	.825 (20.96)	425	CH561-ND	5.10	4.54	3.78	E69-00AA
5B				Push-Pull (Reset)	.9 (22.86)	285	CH562-ND	3.70	3.29	2.73	E69-20A
				Momentary Cheat Interlock	.980 (24.89)	425/285	CH155-ND	4.40	3.92	3.26	E69-30A
5C				Short Button Momentary	.450 (11.43)	425	CH156-ND	3.70	3.29	2.73	E69-40A
				Short Button Momentary	.4 (10.16)	425	CH563-ND	5.24	4.66	3.89	E69-40AA
5D				Auxiliary Push Button	.4 (10.16)	425	CH564-ND	4.67	4.16	3.47	E69-50A
5A	DPDT	.1A	.187 QC (4.75)	Momentary	.825 (20.96)	680	CH567-ND	10.50	9.34	7.77	E78-00A
5B				Push-Pull (Reset)	.9 (22.86)	510	CH568-ND	10.50	9.34	7.77	E78-20A
				Momentary Cheat Interlock	.71 (18.03)	757	CH569-ND	12.34	10.97	9.14	E78-30A
5C				Short Button Momentary	.4 (10.16)	567	CH570-ND	10.34	9.20	7.67	E78-40A
5A	DPDT	10A	.187 QC (4.75)	Momentary	.875 (22.23)	680	CH157-ND	6.37	5.67	4.73	E79-00A
5B				Momentary Cheat Interlock	.71 (18.03)	757	CH571-ND	6.97	6.20	5.17	F79-30A
				Push-Pull (Reset)	.920 (23.37)	510	CH392-ND	6.37	5.67	4.73	E79-20A
				Momentary Cheat Interlock	.980 (24.89)	757/567	CH158-ND	8.51	7.56	6.30	E79-30A
5C				Short Button Momentary	.450 (11.43)	680	CH159-ND	6.37	5.67	4.73	E79-40A
Water and Dust Sealed - E72 and E73 Series											
6B	SPDT	0.1A	10" Wires (25.4cm)	Roller	.858 (21.79)	25	CH566-ND	17.15	15.24	12.71	E73-40KT
6C				Lever	.858 (21.79)	67	CH565-ND	15.31	13.61	11.34	E73-40HT
6A	SPDT	10A	10" Wires (25.4cm)	Plunger Only	.230 (5.84)	300	CH389-ND	10.91	9.70	8.09	E72-40AT
6B				Roller Lever	.858 (21.79)	25	CH390-ND	13.18	11.72	9.77	E72-40KT
6C				Lever	.858 (21.79)	67	CH391-ND	11.64	10.35	8.61	E72-40HT
Internationally Approved Subminiature — DB1 Series											
7	SPDT	5A	Solder	Plunger Only	—	150	CH288-ND	4.27	3.80	3.15	DB1C-A1AA
			PCB Pin	Plunger Only	—	150	CH289-ND	4.27	3.80	3.15	DB1C-C1AA
Replacement Actuator Simulated Roller Lever, SB Suffix							CH670-ND	.19	.17	.14	0614-1237
Replacement Actuator Simulated Roller Lever, SC Suffix							CH671-ND	.19	.17	.14	0614-1238
Replacement Actuator Simulated Roller Lever, SD Suffix							CH672-ND	.35	.32	.26	0614-1239
Line Interrupt Switches — F8											
8	SPST	.1A	.250 QC (6.35)	Barrier	—	866	CH309-ND	16.58	14.74	12.29	F83A-B120
		10A	.187 QC (4.75)	Plunger Only	—	866	CH303-ND	10.91	9.70	8.09	F81A-A110
			.250 QC (6.35)	Plunger Only	—	866	CH304-ND	10.91	9.70	8.09	F81A-A120
			.187 QC (4.75)	Barrier	—	866	CH305-ND	11.21	9.96	8.30	F81A-B110
			.250 QC (6.35)	Barrier	—	866	CH306-ND	11.21	9.96	8.30	F81A-B120
	SPST/SPDT	10A	.250 QC (6.35)	Plunger Only	.238 (6.05)	866	CH626-ND	12.04	10.71	8.93	F81J-A120
	SPST	16A	.250 QC (6.35)	Plunger Only	—	866	CH307-ND	12.45	11.07	9.22	F82A-A120
				Barrier	—	866	CH308-ND	12.64	11.24	9.37	F82A-B120

(Continued)

Fig. 3
Series E61, E62, E63



A - Plunger

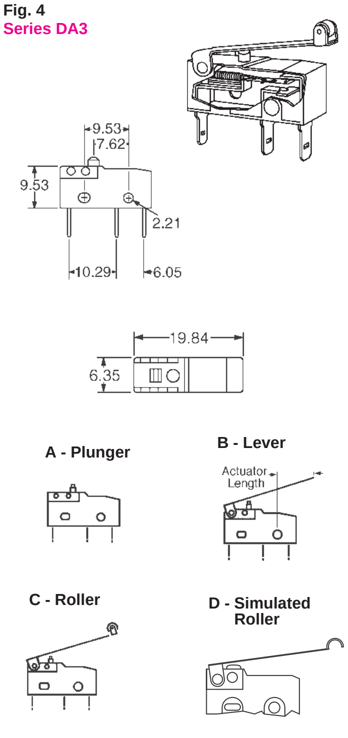
B - Lever

C - Roller

D - Simulated Roller

Ratings:
E61: 5 amps – 125/250VAC
E62: 10.1 amps – 125/250VAC, 1/4 HP – 125VAC
E63: .1 amp – 125VAC, .25 amp – 30VDC

Fig. 4
Series DA3



A - Plunger

B - Lever

C - Roller

D - Simulated Roller

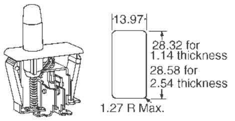
Ratings:
DA3: 0.1 amps 125VAC.

CHERRY Snap and Lever Type Switches *(Cont.)*

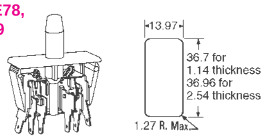
Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
Light Force and Standard Force Switches - E Series											
9A	SPDT	.1 A	.187 QC (4.75)	Plunger Only	—	75	CH331-ND	4.10	3.65	3.05	E21-00A
9B				Long Lever	1.400 (35.56)	35	CH333-ND	5.67	5.04	4.20	E21-50H
				Light Force - Long Lever	1.58 (40.13)	5	CH510-ND	6.37	5.67	4.73	E21-75HX
				Light Force - Long Lever	2.932 (74.47)	2	CH512-ND	6.16	5.48	4.56	E21-85HX
9C				Light Force - Roller	1.34 (34.04)	8	CH507-ND	6.67	5.93	4.94	E21-50KX
				Light Force - Roller	1.516 (38.50)	5	CH511-ND	6.10	5.43	4.52	E21-75KX
				Long Roller	1.340 (34.04)	35	CH334-ND	6.53	5.81	4.83	E21-50K
9D				Short Roller	.810 (20.57)	75	CH332-ND	6.16	5.48	4.56	E21-00K
9E				Light Force - Plastic Lever	1.34 (34.04)	8	CH508-ND	6.08	5.40	4.49	E21-50NX
9C	SPST-NO	.1 A	.187 QC (4.75)	Light Force - Roller	1.34 (34.04)	8	CH509-ND	6.35	5.64	4.70	E21-51KX
9A	SPDT	3A	.187 QC (4.75)	Light Force - Button	—	15	CH513-ND	3.05	2.72	2.27	E22-00A
				Light Force - Plunger Only	—	15	CH335-ND	3.35	2.98	2.48	E22-00AX
9B				Light Force - Short Lever	.865 (21.97)	15	CH514-ND	3.97	3.53	2.94	E22-00HX
				Light Force - Long Lever	1.58 (40.13)	5	CH517-ND	3.75	3.34	2.77	E22-75HX
				Light Force - Roller	1.516 (38.50)	5	CH518-ND	4.27	3.80	3.15	E22-75KX
				Light Force - Long Lever	1.400 (35.56)	8	CH337-ND	3.75	3.34	2.78	E22-50HX
				Long Lever	1.400 (35.56)	35	CH338-ND	3.48	3.10	2.59	E22-50H
				Long Lever	2.757 (70.03)	4	CH340-ND	3.75	3.34	2.78	E22-55HX
				Long Lever	2.932 (74.47)	2	CH341-ND	3.92	3.48	2.90	E22-85HX
9C				Std. Force - Roller	1.516 (38.50)	25	CH516-ND	4.10	3.65	3.05	E22-50KL
				Long Roller	1.340 (34.04)	35	CH339-ND	4.10	3.65	3.05	E22-50K
9D				Light Force - Roller	.865 (21.97)	15	CH515-ND	4.64	4.13	3.44	E22-00KX
				Short Roller	.810 (20.57)	75	CH336-ND	4.10	3.65	3.05	E22-00K
9A	SPDT	5A	.187 QC (4.75)	Plunger Only	—	45	CH342-ND	3.05	2.72	2.27	E23-00AX
				Plunger Only	—	170	CH343-ND	2.84	2.52	2.10	E23-00A
9B				Std. Force - Long Lever	1.40 (35.56)	86	CH519-ND	3.54	3.15	2.63	E23-50H
				Light Force - Long Lever	1.400 (35.56)	22	CH345-ND	4.02	3.58	2.63	E23-50HX
				Light Force - Long Lever	2.757 (70.03)	10	CH347-ND	3.86	3.44	2.86	E23-55HX
				Light Force - Long Lever	2.932 (74.47)	6	CH348-ND	3.86	3.44	2.86	E23-85HX
9C				Light Force - Roller	1.516 (38.50)	14	CH523-ND	4.67	4.16	3.47	E23-75KX
				Long Roller	1.340 (34.04)	86	CH346-ND	4.19	3.72	3.11	E23-50K
				Light Force - Roller	1.34 (34.04)	22	CH520-ND	4.37	3.89	3.23	E23-50KX
9B				Light Force - Long Lever	1.58 (40.13)	14	CH522-ND	3.86	3.44	2.86	E23-75HX
9D				Short Roller	.810 (20.57)	170	CH344-ND	4.19	3.72	3.11	E23-00K
9E				Std. Force - Plastic Lever	1.382 (35.10)	86	CH521-ND	3.48	3.10	2.58	E23-50N
9F				Plastic Sim. Roller	1.289 (32.74)	22	CH524-ND	3.40	3.03	2.52	E23-90N
9A	SPDT	10A	.187 QC (4.75)	Light Force - Button	—	75	CH525-ND	3.13	2.79	2.31	E33-00AX
				Plunger Only	—	285	CH349-ND	2.73	2.43	2.02	E33-00A
			Screw Term.	Light Force - Button	—	75	CH526-ND	6.59	5.86	4.87	E33-10A
			Solder Term.		—	75	CH527-ND	2.97	2.64	2.21	E33-20A
9B			.187 QC (4.75)	Std. Force - Long Lever	1.58 (40.13)	86	CH528-ND	3.40	3.03	2.52	E33-50HL
				Long Lever	1.400 (35.56)	144	CH351-ND	3.13	2.79	2.31	E33-50H
				Long Lever	2.757 (70.03)	17	CH353-ND	3.35	2.98	2.48	E33-55HX
				Long Lever	2.932 (74.47)	10	CH355-ND	3.83	3.41	2.84	E33-85HX
9C				Std. Force - Roller	1.516 (38.50)	86	CH529-ND	3.97	3.53	2.94	E33-50KL
				Light Force - Roller	1.34 (34.04)	37	CH530-ND	4.27	3.80	3.15	E33-50KX
				Long Roller	1.340 (34.04)	144	CH352-ND	3.62	3.22	2.69	E33-50K
				Long Lever	1.580 (40.13)	22	CH354-ND	3.35	2.98	2.48	E33-75HX
9D				Short Roller	.810 (20.57)	285	CH350-ND	3.51	3.12	2.61	E33-00K
9F				Plastic Sim. Roll	1.289 (32.74)	22	CH532-ND	3.32	2.96	2.46	E33-90N
9A	SPDT	15A	.187 QC (4.75)	Plunger Only	—	400	CH356-ND	3.13	2.79	2.31	E34-00A
			Solder Term	Std. Force - Button	—	400	CH534-ND	2.84	2.52	2.10	E34-20A
9B			.187 QC (4.75)	Std. Force - Lever	1.58 (40.13)	120	CH535-ND	3.70	3.29	2.73	E34-50HL
				Light Force - Long Lever	1.400 (35.56)	50	CH358-ND	3.46	3.08	2.57	E34-50HX
				Light Force - Long Lever	1.400 (35.56)	200	CH359-ND	3.46	3.08	2.57	E34-50H
				Light Force - Long Lever	2.757 (70.03)	22	CH362-ND	3.51	3.12	2.61	E34-55HX
				Light Force - Long Lever	2.932 (74.47)	13	CH363-ND	3.70	3.29	2.73	E34-85HX
9C				Long Roller	1.340 (34.04)	200	CH360-ND	3.97	3.53	2.94	E34-50K
9D				Light Force - Roller	.810 (20.57)	100	CH533-ND	4.10	3.65	3.05	E34-00KX
				Short Roller	.810 (20.57)	400	CH357-ND	4.02	3.58	2.99	E34-00K
9E				Plastic Lever	1.382 (35.10)	200	CH361-ND	3.32	2.96	2.46	E34-50N
Standard Size Insulator for E34 Series							CH663-ND	.27	.24	.20	0015-0051
Small Size Insulator for E62 Series							CH664-ND	.41	.36	.30	0015-0052
Large Black Plastic Insulator for E34 Series							CH665-ND	.27	.24	.20	0015-0054
Miniature International — D4 Series											
10A	SPDT	.1A	.187 QC (4.75)	Button	—	75	CH115-ND	4.54	4.04	3.36	D41C-R1AA
				Button	—	15	CH119-ND	4.78	4.25	3.55	D41L-R1AA
10B				Lever Std. Ratio	1.400 (35.56)	35	CH297-ND	4.97	4.42	3.68	D41C-R1LD
				Lever High Ratio	2.93 (74.47)	2	CH118-ND	4.97	4.42	3.68	D41L-R1XL
10C				Roller Std. Ratio	.810 (20.57)	75	CH117-ND	5.18	4.61	3.85	D41C-R1RA
				Roller Std. Ratio	1.340 (34.04)	35	CH298-ND	5.18	4.61	3.85	D41C-R1RD
10A	SPDT	3A	.187 QC (4.75)	Button	—	75	CH120-ND	2.48	2.21	1.85	D42C-R1AA
				Button	—	15	CH124-ND	2.92	2.60	2.17	D42L-R1AA
10B				Lever High Ratio	2.93 (74.47)	2	CH123-ND	4.40	3.92	3.26	D42L-R1XL
10C				Roller Std. Ratio	.810 (20.57)	75	CH122-ND	3.43	3.05	2.55	D42C-R1RA
10A	SPDT	5A	.187 QC (4.75)	Button	—	170	CH125-ND	2.46	2.19	1.83	D43C-R1AA
				Button	—	45	CH129-ND	2.78	2.48	2.06	D43L-R1AA
10B				Lever High Ratio	2.93 (74.47)	6	CH128-ND	3.46	3.08	2.57	D43L-R1ML
10C				Roller Std. Ratio	.810 (20.57)	170	CH127-ND	3.56	3.17	2.65	D43C-R1RA

(Continued)

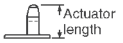
Fig. 5 **Series E68,E69**



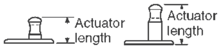
Series E78, E79, F79



A - Momentary

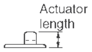


B - Cheat Interlock

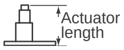


(Pulled Out)

C - Short Button Momentary



D - Push Button



Ratings:

E68/E78: 0.1 amps 125VAC

E69: 10 amps 125/250VAC, 1/3 H.P., 125/250 VAC

E79/F79: 10 amps 125/250VAC, 1/3 H.P., 125/250VAC

Fig. 6 **Series E72, E73**

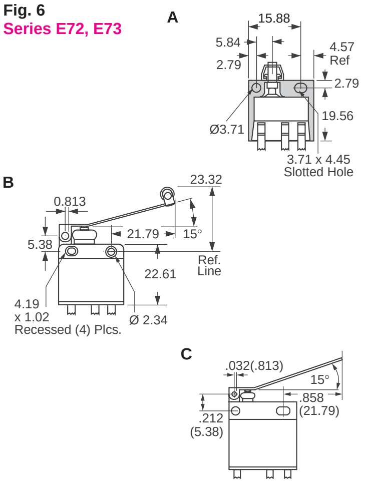


Fig. 7 **Series DB**

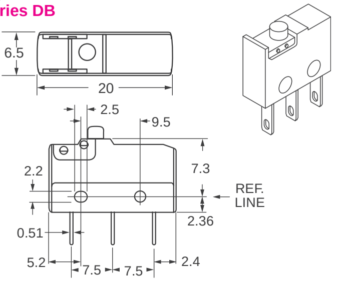
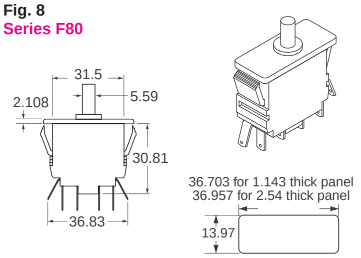


Fig. 8 **Series F80**

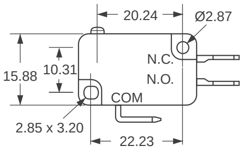


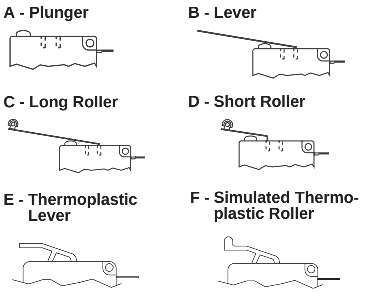
CHERRY Snap and Lever Type Switches *(Cont.)*

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
Miniature International — D4 Series (cont.)											
10A	SPDT	10A	.187 QC (4.75)	Button	—	285	CH130-ND	2.48	2.21	1.85	D44C-R1AA
				Button	—	75	CH134-ND	2.73	2.43	2.02	D44L-R1AA
10B				Lever Std. Ratio	.865 (21.97)	285	CH131-ND	2.97	2.64	2.21	D44C-R1LA
				Lever Std. Ratio	1.400 (35.56)	35	CH299-ND	3.00	2.67	2.23	D44L-R1LD
				Lever High Ratio	2.93 (74.47)	10	CH133-ND	3.24	2.88	2.40	D44L-R1ML
10C				Roller Std. Ratio	.810 (20.57)	285	CH132-ND	3.27	2.91	2.42	D44C-R1RA
				Roller Std. Ratio	.810 (20.57)	75	CH301-ND	3.62	3.22	2.69	D44L-R1RA
10A	SPDT	15A	.187 QC (4.75)	Button	—	400	CH135-ND	2.97	2.64	2.21	D45C-R1AA
				Button	—	100	CH139-ND	2.97	2.64	2.21	D45L-R1AA
10B				Lever Std. Ratio	.865 (21.97)	400	CH136-ND	3.27	2.91	2.42	D45C-R1LA
				Lever High Ratio	2.93 (74.47)	13	CH138-ND	3.13	2.79	2.31	D45L-R1ML
				Lever Std. Ratio	2.93 (74.47)	17	CH302-ND	2.97	2.64	2.21	D45L-R1LL
10C				Roller Std. Ratio	.810 (20.57)	400	CH137-ND	3.54	3.15	2.63	D45C-R1RA
Miniature International - D4 Series - U.S. Version											
10B	SPDT	.1A	.187 QC (4.75)	Alum. Lever-Standard Ratio	1.4 (35.56)	8	CH578-ND	4.97	4.42	3.68	D41L-R1YD
10C				Roller - Standard Ratio	.810 (20.57)	15	CH576-ND	5.70	5.07	4.22	D41L-R1RA
				Roller - Standard Ratio	1.340 (34.04)	8	CH577-ND	5.70	5.07	4.22	D41L-R1RD
10B	SPDT	3A	.187 QC (4.75)	Lever - Standard Ratio	1.4 (35.56)	35	CH579-ND	2.86	2.55	2.12	D42C-R1LD
				Alum. Lever-Standard Ratio	1.4 (35.56)	8	CH581-ND	4.40	3.92	3.26	D42L-R1YD
				Alum. Lever-Standard Ratio	2.757 (70.03)	3.5	CH582-ND	4.51	4.01	3.34	D42L-R1YL
10C				Roller - Standard Ratio	1.340 (34.04)	75	CH580-ND	3.56	3.17	2.65	D42C-R1RD
10B	SPDT	5A	.187 QC (4.75)	Lever - High Ratio	1.580 (40.13)	51	CH583-ND	3.13	2.79	2.31	D43C-R1MD
				Lever - Standard Ratio	1.4 (35.56)	35	CH586-ND	4.43	3.94	3.28	D43L-R1LD
				Lever - High Ratio	1.580 (40.13)	20	CH587-ND	3.35	2.98	2.48	D43L-R1MD
10C				Roller - Standard Ratio	1.340 (34.04)	86	CH584-ND	3.56	3.17	2.65	D43C-R1RD
				Roller - High Ratio	1.516 (38.51)	51	CH585-ND	3.56	3.17	2.65	D43C-R1TD
				Roller - Standard Ratio	.810 (20.57)	45	CH588-ND	3.83	3.41	2.84	D43L-R1RA
10B	SPDT	10A	.187 QC (4.75)	Lever - Standard Ratio	1.4 (35.56)	144	CH589-ND	2.97	2.64	2.21	D44C-R1LD
				Lever - Standard Ratio	.865 (21.97)	75	CH591-ND	3.05	2.72	2.27	D44L-R1LA
				Lever - High Ratio	1.580 (40.13)	20	CH592-ND	3.05	2.72	2.27	D44L-R1MD
10C				Roller - Standard Ratio	1.340 (34.04)	144	CH590-ND	3.27	2.91	2.42	D44C-R1RD
				Roller - Standard Ratio	1.340 (34.04)	37	CH593-ND	3.59	3.20	2.67	D44L-R1RD
10A	SPDT	15A	.250 QC (6.35)	Button	—	400	CH594-ND	2.92	2.60	2.17	D45C-V1AA
10B			.187 QC (4.75)	Lever - Standard Ratio	.865 (21.97)	100	CH595-ND	3.13	2.79	2.31	D45L-R1LA
				Lever - Standard Ratio	1.4 (35.56)	35	CH596-ND	3.46	3.08	2.56	D45L-R1LD
				Lever - High Ratio	1.580 (40.13)	20	CH597-ND	3.13	2.79	2.31	D45L-R1MD
10C				Roller - Standard Ratio	1.340 (34.04)	50	CH598-ND	4.10	3.65	3.05	D45L-R1RD

Fig.	Circuitry	Cur-rent	Terminal Inch (mm)	Actuator	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
High Performance Miniature Snap Switches - K Series										
11	SPDT	50mA	.187 (4.75) QC Straight	Button - Standard Temp.	25	CH627-ND	3.92	3.48	2.90	KWAA-QACA
				Button - High Temp.	25	CH628-ND	4.75	4.23	3.53	KWAB-QACA
				Button - Standard Temp.	75	CH629-ND	3.92	3.48	2.90	KWBA-QACA
				Button - High Temp.	75	CH630-ND	4.67	4.16	3.47	KWBB-QACA
		3A	.187 (4.75) QC Straight	Button - Standard Temp.	25	CH631-ND	2.94	2.62	2.18	KWEA-QACA
				Button - High Temp.	25	CH632-ND	3.48	3.10	2.58	KWEB-QACA
				Button - Standard Temp.	75	CH633-ND	2.94	2.62	2.18	KWFA-QACA
				Button - High Temp.	75	CH634-ND	3.48	3.10	2.58	KWFB-QACA
		5A	.187 (4.75) QC Straight	Button - Standard Temp.	50	CH635-ND	2.75	2.45	2.04	KWGA-QACA
				Button - High Temp.	50	CH636-ND	3.21	2.86	2.37	KWGB-QACA
				Button - Standard Temp.	150	CH637-ND	2.46	2.19	1.83	KWHA-QACA
				Button - High Temp.	150	CH638-ND	3.21	2.86	2.37	KWHB-QACA
		10A	.187 (4.75) QC Straight	Button - Standard Temp.	75	CH639-ND	2.70	2.40	2.00	KWJA-QACA
				Button - High Temp.	75	CH640-ND	3.16	2.81	2.33	KWJB-QACA
				Button - Standard Temp.	150	CH641-ND	2.46	2.19	1.83	KWKA-QACA
				Button - High Temp.	150	CH642-ND	3.21	2.86	2.37	KWKB-QACA
		15A	.187 (4.75) QC Straight	Button - Standard Temp.	150	CH643-ND	2.67	2.38	1.97	KWMA-QACA
				Button - High Temp.	150	CH645-ND	3.27	2.91	2.42	KWMB-QACA
			.250 (6.35) QC Straight	Button - Standard Temp.	150	CH644-ND	2.81	2.50	2.08	KWMA-VACA
				Button - High Temp.	150	CH646-ND	3.27	2.91	2.42	KWMB-VACA
		25A	.250 (6.35)QC Straight	Button - Standard Temp.	225	CH647-ND	3.46	3.08	2.56	KWSA-VACA
Optional Short Lever Actuator for K Series						CH659-ND	.22	.20	.16	0014-6976
Optional Long Lever Actuator for K Series						CH660-ND	.24	.22	.18	0014-6978
Optional Extra Long Lever Actuator for K Series						CH661-ND	.35	.32	.26	0014-6980
Optional Simulated Roller Lever Actuator for K Series						CH662-ND	.24	.22	.18	0014-6982

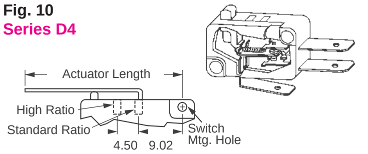
Fig. 9
Series E

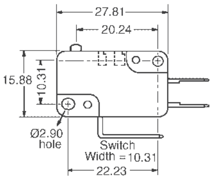


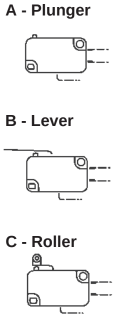


Ratings:
E21: .1 amp 125VAC, Gold contacts
E22: 3 amps 250VAC
E23: 5 amps 250VAC
E33: 10 amps 250VAC
E34: 15 amps 250VAC, UL94HB

Fig. 10
Series D4

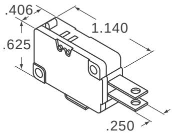






Ratings: 187 QC terminals.
D41: .1 amps 125VAC, Gold crosspoint contacts
D42: 3 amps 125/250VAC
D43: 5 amps, 1/4 H.P., 125/250VAC
D44: 10 amps, 1.2 H.P., 125/250VAC
D45: 15 amps. 1/2 H.P., 125/250VAC.

Fig. 11 **Series K**



Features: Centrally located common terminal, wiping contact action, standard temperature ratings up to 150° C

Flammability Ratings: UL94V-O

Electrical Life: 100,000 cycles

Temperature Ratings: • Standard Temperature:-40° to +85°C • High Temperature:-40° to +150°C

UL and CUL Ratings: KWA/KWB: 50mA, 28 VDC **KWE/KWF:** 3 amp, 125/250 VAC, 1/10 HP **KWG/KWH:** 5 amps, 1/4 HP, 125/250VAC **KWJ:** 10 amps, 1/2 HP, 125/250VAC **KWM:** 15.1 amps, 1/2 HP, 125/250VAC **KWS:** 25 amp, 250 VAC

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molex Waldom ELECTRONICS

Switch Connector and Terminal

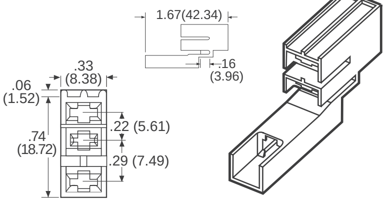
(TO BE USED WITH D4 and E SERIES)

Switch Connector:
• 94V-2 Nylon • U.L. Approved • Accepts 14-28 AWG • No. of Circuits: 3 • Maximum Current Rating: 10 • Maximum Voltage Rating: 250 • Mounting Ears: No • Maximum Panel Thickness: N/A • Eng. No.: 2191

WM2553-ND ....**$.57**/1; **$5.01**/10; **$33.39**/100

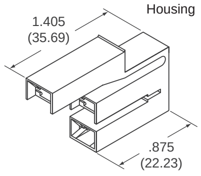
Terminal:
Without Detent, Loose Form

WM2514-ND ....**$.18**/1; **$1.44**/10; **$11.98**/100



AMP tyco Electronics
Authorized Distributor

AMPIP Post-Insulation Pods



Straight Style .187" Series Receptacle Housings:
• UL94V-2 Flammability Rating • Nylon • Natural color • UL/CSA Approved • Insulation Diameter Max.: .170" (4.32mm) • 3 circuits
A24758-ND **$3.01**/10; **$26.49**/100

Fastons:

A27696CT-ND	• 20-24AWG • Brass • Fit tab .020" (.51mm)	**$.72**/10; **$6.18**/100
A27700CT-ND	• 16-20AWG • Brass • Fit tab .020" (.51mm)	**$.54**/10; **$4.60**/100

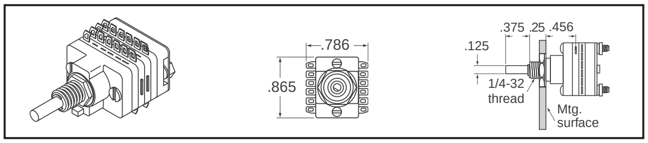
ELECTROSWITCH
ELECTRONIC PRODUCTS

C1 Series Rotary Switches 1/4 Amp

The C1 Series is our smallest enclosed rotary switch. Standard designs utilize solder lug and diallyl phthalate insulation.

Specifications: Electrical: • Current and Voltage Ratings: 0.25 amp @ 28VDC; 0.1 amp @ 125VAC **• Dielectric Strength:** 600VAC between current carrying parts and ground **• Contact Resistance:** Average initial 5 milliohms **• Insulation Resistance:** In excess of 10,000 megohms **Mechanical: • Terminals and Contacts:** Brass with silver plate **• Insulation:** Diallyl phthalate **• Index Life:** 25,000 cycles minimum **• Index Angle:** 30° **• Index Stop:** Adjustable **• Stop Strength:** 8 in. lbs. minimum

Hardware: Mounting nut and lockwasher are shipped assembled.



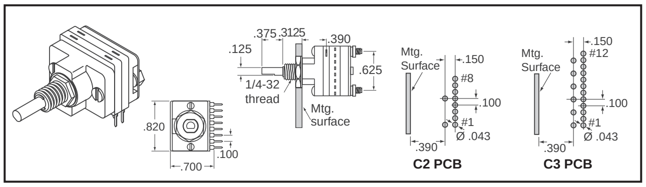
Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
2-12	1	2	No	451-1000-ND	20.63	16.88	15.00	C1D0212N-A
2-6	2	1	No	451-1001-ND	17.05	13.95	12.40	C1D0206N-A

C2/3 Series Rotary Switches 1/4 Amp

The C2/C3 series offers an 8 position and a 12 position vertical PC board mountable design.

Specifications: Electrical: • Current and Voltage Ratings: 0.25 amp @ 28VDC **• Dielectric Strength:** 1,000VAC **Contact Resistance:** Average initial 30 milliohms **Insulation Resistance:** In excess of 10,000 megaohms **Mechanical: • Terminal and Contacts:** Brass with silver plate **• Insulation:** Polyester **• Index Life:** 25,000 cycles minimum **• Index Angle:** 30° **• Index Stop:** Adjustable **Stop Strength:** 8 in. lbs. minimum

Hardware: Mounting nut and lockwasher are shipped assembled.



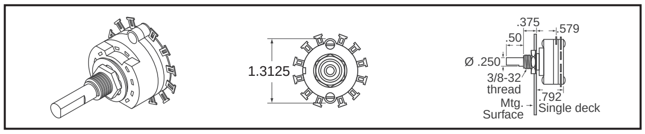
Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
				C2 Series — 8 Pin					
1	02-08	1	1	No	451-1002-ND	17.05	13.95	12.40	C2P0108N-A
1	02-08	1	2	No	451-1004-ND	20.63	16.88	15.00	C2P0208N-A
2	02-04	2	1	No	451-1003-ND	17.05	13.95	12.40	C2P0204N-A
				C3 Series — 12 Pin					
1	02-12	1	1	No	451-1005-ND	17.05	13.95	12.40	C3P0112N-A
1	02-12	1	2	No	451-1007-ND	20.63	16.88	15.00	C3P0212N-A
2	02-06	2	1	No	451-1006-ND	17.05	13.95	12.40	C3P0206N-A
3	02-04	3	1	No	451-1008-ND	17.05	13.95	12.40	C3P0304N-A
4	02-06	2	2	No	451-1009-ND	20.63	16.88	15.00	C3P0406N-A
6	02-04	3	2	No	451-1010-ND	20.63	16.88	15.00	C3P0604N-A

C4 Series Rotary Switches 1/2 Amp

The C4 Series provides a versatile, fully enclosed design, that helps keep dirt and moisture out of the contact area while locking in life time lubricants

Specifications: Electrical: • Current and Voltage Rating: 0.5 amp @ 28VDC; 0.3 amp @ 125VAC **• Dielectric Strength:** 1,000VAC **Contact Resistance:** Average initial 3 milliohms **• Insulation Resistance:** In excess of 10,000 megohms **Mechanical: • Terminals and Contacts:** Brass with silver plate **• Index Life:** 25,000 cycles minimum **• Index Angle:** 30° Standard, 36°, 45°, 60°, and 90° available **• Index Stop:** Adjustable **• Stop Strength:** 25 in. lbs. minimum **• Insulation:** Diallyl phthalate

Hardware: Mounting nut and lockwasher are shipped assembled.



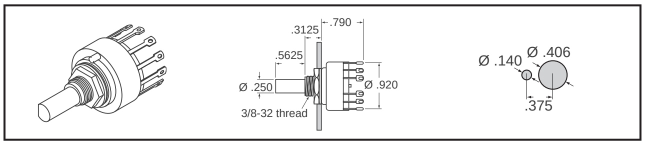
Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	2-12	1	1	No	451-1011-ND	14.58	11.93	10.60	C4D0112N-A
2	2-06	2	1	No	451-1012-ND	14.58	11.93	10.60	C4D0206N-A
2	2-12	1	2	No	451-1013-ND	18.70	15.30	13.60	C4D0212N-A
3	2-12	1	3	No	451-1015-ND	22.00	18.00	16.00	C4D0312N-A
3	2-04	3	1	No	451-1014-ND	15.40	12.60	11.20	C4D0304N-A
4	2-12	1	4	No	451-1017-ND	25.58	20.93	18.60	C4D0412N-A
4	2-06	2	2	No	451-1016-ND	18.70	15.30	13.60	C4D0406N-A
5	2-12	1	5	No	451-1018-ND	28.88	23.63	21.00	C4D0512N-A
6	2-06	2	3	No	451-1020-ND	22.00	18.00	16.00	C4D0606N-A
6	2-04	3	2	No	451-1019-ND	18.70	15.30	13.60	C4D0604N-A
6	2-12	1	6	No	451-1021-ND	32.45	26.55	23.60	C4D0612N-A
8	2-06	2	4	No	451-1022-ND	25.58	20.93	18.60	C4D0806N-A
9	2-04	3	3	No	451-1023-ND	22.00	18.00	16.00	C4D0904N-A
10	2-06	2	5	No	451-1024-ND	28.88	23.63	21.00	C4D1006N-A
12	2-04	3	4	No	451-1025-ND	25.58	20.93	18.60	C4D1204N-A
15	2-04	3	5	No	451-1026-ND	28.88	23.63	21.00	C4D1504N-A

C5 Series Rotary Switches 1.0 Amp

The C5 Series offers a very economical and lightweight design. Standard features include 30° indexing up to 12 positions, solder lug terminals, a fixed stop, and both internal and external seals for washability.

Specifications: Electrical: • Current and Voltage Rating: 1 amp @ 28VDC; 1 amp @ 125VAC **• Dielectric Strength:** 1,000VAC **• Contact Resistance:** Average initial 20 milliohms • Insulation Resistance: in excess of 10,000 megohms **Mechanical: • Terminals and Contacts:** Brass with silver plate **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Index Stop:** Adjustable **• Stop Strength:** 4.5 in. lbs. minimum

Hardware: Mounting nut and lockwasher are shipped assembled.



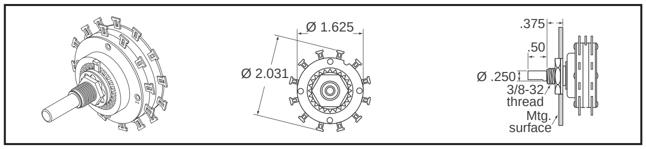
Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
				C5 Series — Sealed Solderlug					
1	02-12	1	1	No	451-1027-ND	8.25	6.75	6.00	C5P0112N-A
2	02-06	2	1	No	451-1028-ND	8.80	7.20	6.40	C5P0206N-A
3	02-04	3	1	No	451-1029-ND	9.35	7.65	6.80	C5P0304N-A
4	02-03	4	1	No	451-1030-ND	9.90	8.10	7.20	C5P0403N-A
				C5 Series — Sealed PC Term					
1	02-12	1	1	No	451-1031-ND	8.25	6.75	6.00	C5P0112N-RA
2	02-06	2	1	No	451-1032-ND	8.80	7.20	6.40	C5P0206N-RA
3	02-04	3	1	No	451-1033-ND	9.35	7.65	6.80	C5P0304N-RA
4	02-03	4	1	No	451-1034-ND	9.90	8.10	7.20	C5P0403N-RA

C7 Series Rotary Switches 1.0 Amp

The C7 Series provides a fully enclosed, modular design that enables switching up to 24 positions. our standard design offers 15° indexing, and solder lug terminals.

Specifications: Electrical: • Current and Voltage Rating: 1.0 amp @ 28VDC; 0.5 amp @ 125VAC **• Dielectric Strength:** 1,000VAC between current carrying parts and ground **• Contact Resistance:** Average Initial 3 milliohms **• Insulation Resistance:** In excess of 10,000 megohms **Mechanical: • Terminals and Contacts:** Brass with silver plate **• Insulation:** Diallyl phthalate **• Index Life:** 25,000 cycles minimum **• Index Stop:** Adjustable **• Stop Strength:** 25 in. lbs. minimum

Hardware: Mounting nut and lockwasher are shipped assembled.



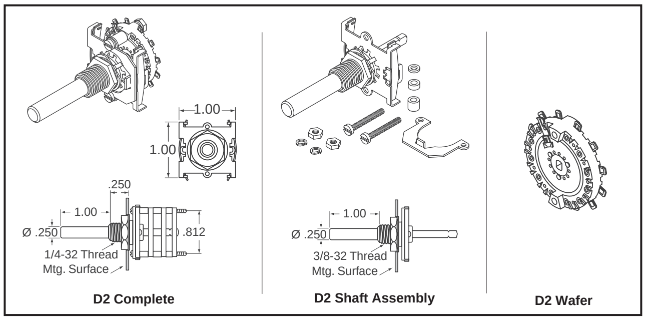
Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	23	1	1	No	451-1035-ND	22.00	18.00	16.00	C7D0123N
2	23	1	2	No	451-1037-ND	31.35	25.65	22.80	C7D0223N
1	24	1	1	No	451-1036-ND	22.00	18.00	16.00	C7D0124N-C
2	24	1	2	No	451-1038-ND	31.35	25.65	22.80	C7D0224N-C

D2 Series Rotary Switches .55 Amp

The D2 Series switch is used where space is at a premium. This dual ball side thrust index offers exceptional torque control. Standard designs utilize diallyl phthalate or ceramic insulation, solder lug terminals, and 30° adjustable stop indexing.

Specifications: Electrical: • Current and Voltage Rating: 0.55 amp @ 28VDC; 0.25 amp @ 115VAC **• Current Carrying Capacity:** 7 amps **• Dielectric Strength:** 750VAC between current carrying parts and ground **• Contact Resistance:** Average initial 5 milliohms **• Insulation Resistance:** Diallyl in excess of 900,000 megohms, Ceramic in excess of 1,000,000 megohms **Mechanical: • Clips and Rotors:** Brass with silver plate as standard **• Insulation:** Diallyl phthalate or ceramic **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Index Stop:** Adjustable standard **• Stop Strength:** 10 in. lbs. minimum

Hardware: Mounting nut and lockwasher are shipped assembled.



D2 Complete

D2 Shaft Assembly

D2 Wafer

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	02-12	1	1	No	451-1056-ND	28.88	23.63	21.00	D2D0112N
2	02-06	2	1	No	451-1057-ND	28.88	23.63	21.00	D2D0206N
2	02-12	1	2	No	451-1058-ND	38.78	31.73	28.20	D2D0212N
3	02-05	3	1	No	451-1059-ND	28.88	23.63	21.00	D2D0305N
3	02-12	1	3	No	451-1060-ND	49.23	40.28	35.80	D2D0312N

(Continued)

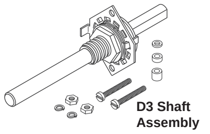
D2 Series Rotary Switches .55 Amp *(Cont.)*

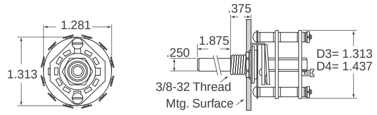
Poles	Active Positions	Poles/ Sect.	No. of Sect.	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
4	02-06	2	2	No	451-1061-ND	38.78	31.73	28.20	D2D0406N
6	02-05	3	2	No	451-1062-ND	38.78	31.73	28.20	D2D0605N
6	02-06	2	3	No	451-1063-ND	49.23	40.28	35.80	D2D0606N
1	02-11	1	1	No	451-1045-ND	40.98	33.53	29.80	D2C0111N
2	02-05	2	1	No	451-1046-ND	40.98	33.53	29.80	D2C0205N
2	02-11	1	2	No	451-1047-ND	62.43	51.08	45.40	D2C0211N
3	02-03	3	1	No	451-1048-ND	40.98	33.53	29.80	D2C0303N
3	02-11	1	3	No	451-1049-ND	84.43	69.08	61.40	D2C0311N
4	02-05	2	2	No	451-1050-ND	62.43	51.08	45.40	D2C0405N
6	02-03	3	2	No	451-1051-ND	62.43	51.08	45.40	D2C0603N
D2 Replacement Parts									
Shaft Assembly Kit 1-2 Decks					451-1039-ND	24.20	19.80	17.60	D2-512
Shaft Assembly Kit 3-5 Decks					451-1040-ND	33.83	27.68	24.60	D2-513
Repl. D2C Wafer, SP-11 Pos. Shorting, .25A					451-1041-ND	28.88	23.63	21.00	D2C-20
Repl. D2C Wafer, SP-11 Pos. Non-Shorting, .25A					451-1042-ND	28.88	23.63	21.00	D2C-21
Repl. D2C Wafer, DP-5 Pos. Shorting, .25A					451-1043-ND	30.53	24.98	22.20	D2C-22
Repl. D2C Wafer, DP-5 Pos. Non-Shorting, .25A					451-1044-ND	30.53	24.98	22.20	D2C-23
Repl. D2D Wafer, SP-12 Pos. Shorting, .25A					451-1052-ND	12.38	10.13	9.00	D2D-50
Repl. D2D Wafer, SP-12 Pos. Non-Shorting, .25A					451-1053-ND	12.38	10.13	9.00	D2D-51
Repl. D2D Wafer, DP-6 Pos. Shorting, .25A					451-1054-ND	13.75	11.25	10.00	D2D-52
Repl. D2D Wafer, DP-6 Pos. Non-Shorting, .25A					451-1055-ND	13.75	11.25	10.00	D2D-53

D3 Series Rotary Switches 1.5 Amp

The D3 Series was originally designed as a high quality military switch, but is ideal for use in both military and commercial equipment applications. The standard features of this hill and valley design are glass epoxy insulation and a 30° index, with options of ceramic and diallyl insulation and a 60° index.

Specifications: Electrical: Current and Voltage Rating: 1.5 amps @ 28VDC; 0.5 amp @ 115VAC • **Dielectric Strength:** 1,000VAC • **Contact Resistance:** Average initial 3.5 milliohms • **Insulation Resistance:** Ceramic in excess of 1,000,000 megohms, Glass in excess of 750,000 megohms
Mechanical: Clips and Rotors: Silver alloy standard on ceramic. Brass with silver plate standard on glass. • **Index Life:** 25,000 cycles minimum • **Index Angle:** Positive 30° • **Stop Strength:** 25 in. lbs. minimum
Hardware: Mounting nut and lockwasher are shipped assembled.


D3 Shaft Assembly



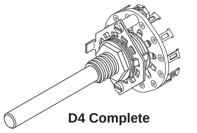
D3 Complete

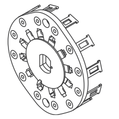
Poles	Active Positions	Poles/ Sect.	No. of Sect.	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
Epoxy Glass Insulation — Complete Switch									
1	02-11	1	1	No	451-1073-ND	24.20	19.80	17.60	D3G0111N
2	02-11	1	2	No	451-1075-ND	33.83	27.68	24.60	D3G0211N
2	02-05	2	1	No	451-1074-ND	24.20	19.80	17.60	D3G0205N
3	02-11	1	3	No	451-1077-ND	44.00	36.00	32.00	D3G0311N
3	02-03	3	1	No	451-1076-ND	24.20	19.80	17.60	D3G0303N
4	02-05	2	2	No	451-1078-ND	33.83	27.68	24.60	D3G0405N
6	02-03	3	2	No	451-1079-ND	33.83	27.68	24.60	D3G0603N
6	02-05	2	3	No	451-1080-ND	44.00	36.00	32.00	D3G0605N
Ceramic Insulation — Complete Switch									
1	02-11	1	1	No	451-1069-ND	47.58	38.93	34.60	D3C0111N
2	02-11	1	2	No	451-1071-ND	80.85	66.15	58.80	D3C0211N
2	02-05	2	1	No	451-1070-ND	47.58	38.93	34.60	D3C0205N
3	02-03	3	1	No	451-1072-ND	47.58	38.93	34.60	D3C0303N
D3 Replacement Parts									
Shaft Assembly Kit 1-4 Decks .25"A					451-1064-ND	24.20	19.80	17.60	D3-600
Repl. Wafer SP-11Pos. Shorting, .5A					451-1065-ND	25.58	20.93	18.60	D3C-80
Repl. Wafer SP-11Pos. Non-Shorting, .5A					451-1066-ND	25.58	20.93	18.60	D3C-81
Repl. Wafer DP-5Pos. Shorting, .5A					451-1067-ND	26.95	22.05	19.60	D3C-82
Repl. Wafer DP-5Pos. Non-Shorting, .5A					451-1068-ND	26.95	22.05	19.60	D3C-83

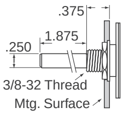
D4 Series Rotary Switches 1.5 Amp

The D4 Series switch is the most economical and versatile switch in our open frame rotary line. This series offers the quality feel of a ball and spring index mechanism.

Specifications: Electrical: Current and Voltage Rating: 1.5 amps @ 28VDC; 0.5 amp @ 115VAC • **Dielectric Strength:** 1,500VAC • **Contact Resistance:** Average initial 3.5 milliohms • **Insulation Resistance:** Glass epoxy in excess of 750,000 megohms. Ceramic in excess of 1,000,000 megohms
Mechanical: Clips and Rotors: Brass with silver plate as standard. • **Index Life:** 25,000 cycles minimum • **Index Angle:** Positive 30° • **Stop Strength:** 10 in. lbs. minimum • **Index Stop:** Adjustable
Hardware: Mounting nut and lockwasher are shipped assembled.


D4 Complete


D4 Wafer



D4 Shaft Assembly

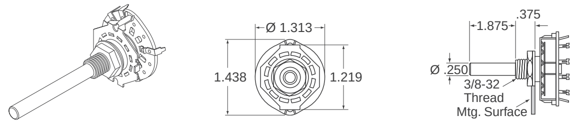
Poles	Active Positions	Poles/ Sect.	No. of Sect.	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	02-11	1	1	No	451-1096-ND	21.45	17.55	15.60	D4G0111N
2	02-11	1	2	No	451-1098-ND	28.88	23.63	21.00	D4G0211N
2	02-05	2	1	No	451-1097-ND	21.45	17.55	15.60	D4G0205N
3	02-11	1	3	No	451-1100-ND	36.58	29.93	26.60	D4G0311N
3	02-03	3	1	No	451-1099-ND	21.45	17.55	15.60	D4G0303N
4	02-11	1	4	No	451-1102-ND	44.00	36.00	32.00	D4G0411N
4	02-05	2	2	No	451-1101-ND	28.88	23.63	21.00	D4G0405N
1	02-12	1	1	No	451-1087-ND	32.45	26.55	23.60	D4C0112N
2	02-12	1	2	No	451-1089-ND	50.60	41.40	36.80	D4C0212N
2	02-06	2	1	No	451-1088-ND	32.45	26.55	23.60	D4C0206N

Poles	Active Positions	Poles/ Sect.	No. of Sect.	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
3	02-05	3	1	No	451-1090-ND	32.45	26.55	23.60	D4C0305N
4	02-06	2	2	No	451-1091-ND	50.60	41.40	36.80	D4C0406N
D4 Replacement Parts									
Shaft Assembly Kit 1-3 Decks .25A					451-1081-ND	20.63	16.88	15.00	D4-300
Shaft Assembly Kit 4-6 Decks .25A					451-1082-ND	40.98	33.53	29.80	D4-301
Repl. Wafer SP-12Pos. Shorting, .5A					451-1083-ND	25.58	20.93	18.60	D4C-0
Repl. Wafer SP-12Pos. Non-Shorting, .5A					451-1084-ND	25.58	20.93	18.60	D4C-1
Repl. Wafer DP-6Pos. Shorting, .5A					451-1085-ND	26.95	22.05	19.60	D4C-2
Repl. Wafer DP-6Pos. Non-Shorting, .5A					451-1086-ND	26.95	22.05	19.60	D4C-3
Repl. Wafer SP-11Pos. Shorting, .5A					451-1092-ND	10.18	8.33	7.40	D4G-30
Repl. Wafer SP-11Pos. Non-Shorting, .5A					451-1093-ND	10.18	8.33	7.40	D4G-31
Repl. Wafer DP-5Pos. Shorting, .5A					451-1094-ND	11.00	9.00	8.00	D4G-32
Repl. Wafer DP-5Pos. Non-Shorting, .5A					451-1095-ND	11.00	9.00	8.00	D4G-33

D5 Series Rotary Switches 1.5 Amp

The D5 Series switch is an economical single switch utilizing glass epoxy insulation, staked construction, and printed circuit board or solder lug terminals. The formed spring index uses a small face plate area with detenting available up to 12 positions.

Specification: Electrical: Current and Voltage Rating: 1.5 amps @ 28VDC: 0.5 amp @ 115VAC • **Dielectric Strength:** 1,500VAC **Mechanical: Clips and Rotors:** Brass with silver plate • **Index Life:** 25,000 cycles minimum • **Index Angle:** 30° standard • **Index Stop:** Fixed • **Stop Strength:** 25 in. lbs. minimum
Hardware: Mounting nut and lockwasher are shipped assembled.

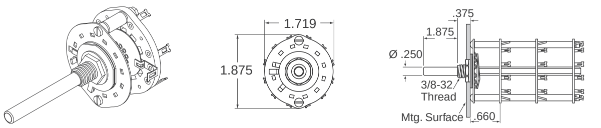


Poles	Active Positions	Poles/ Sect.	No. of Sect.	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	6	1	1	No	451-1103-ND	16.50	13.50	12.00	D5G0106N-R
1	10	1	1	No	451-1105-ND	18.15	14.85	13.20	D5G0110N-R
1	11	1	1	No	451-1106-ND	20.63	16.88	15.00	D5G0111N-R
2	5	2	1	No	451-1104-ND	18.15	14.85	13.20	D5G0205N-R

D7 Series Rotary Switches 2.25 Amp

The D7 Series, constructed with a dual-ball, hill and valley index, has increased the physical size of the switch conductors allowing for additional current carrying capabilities.

Specifications: Electrical: • **Current and Voltage Rating:** 2.25 amps @ 28VDC; 1.0 amp @ 115VAC • **Dielectric Strength:** 1,500VAC **Mechanical:** • **Clips and Rotors:** Brass with silver plate • **Index Life:** 25,000 cycles minimum • **Index Angle:** 30° or 60° standard • **Index Stop:** Adjustable standard • **Stop Strength:** 25 in. lbs. minimum
Hardware: Mounting nut and lockwasher are shipped assembled.



Poles	Active Positions	Poles/ Sect.	No. of Sect.	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
30° Indexing									
1	02-11	1	1	No	451-1115-ND	25.58	20.93	18.60	D7G0111N
2	02-11	1	2	No	451-1117-ND	37.40	30.60	27.20	D7G0211N
2	02-05	2	1	No	451-1116-ND	25.58	20.93	18.60	D7G0205N
3	02-11	1	3	No	451-1119-ND	49.23	40.28	35.80	D7G0311N
3	02-03	3	1	No	451-1118-ND	25.58	20.93	18.60	D7G0303N
4	02-05	2	2	No	451-1120-ND	37.40	30.60	27.20	D7G0405N
1	02-11	1	1	No	451-1108-ND	33.83	27.68	24.60	D7C0111N
2	02-11	1	2	No	451-1111-ND	54.18	44.33	39.40	D7C0211N
2	02-05	2	1	No	451-1109-ND	33.83	27.68	24.60	D7C0205N
3	02-11	1	3	No	451-1114-ND	74.53	60.98	54.20	D7C0311N
3	02-03	3	1	No	451-1112-ND	33.83	27.68	24.60	D7C0303N
60° Indexing									
1	02-06	1	1	No	451-1107-ND	33.83	27.68	24.60	D7C0106N-60
2	02-06	1	2	No	451-1110-ND	57.48	47.03	41.80	D7C0206N-60
3	02-06	1	3	No	451-1113-ND	77.55	63.45	56.40	D7C0306N-60

Rotary Accessories — Knobs and Dial Plates

Fig. 1

Fig. 2

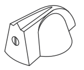
Fig. 3


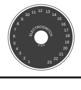
Fig. 4

15°

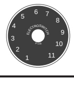
Fig. 5

30°

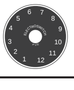
Fig. 6

30°

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Electroswitch Part No.
1	Pointer Knob with One Set Screw, .125" Shaft	451-1122-ND	2.14	1.90	1400R
2	Round Knob with One Set Screw, .250" Shaft	451-1123-ND	7.88	7.00	1914N
3	Pointer Knob with One Set Screw, .250" Shaft	451-1121-ND	2.14	1.90	2300
4	Dial Plate, 1-23 Digit, 1.87" dia. 15° Degs	451-1126-ND	2.14	1.90	P173
5	Dial Plate, 1-11 Digit, 1.87" dia. 30° Degs	451-1125-ND	2.70	2.40	P118
6	Dial Plate, 1-12 Digit, 1.87" dia. 30° Degs	451-1124-ND	2.70	2.40	P112

Grayhill Adjustable Stop Rotary Switches

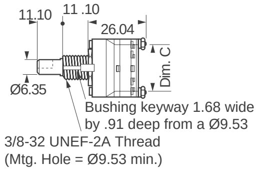
Series 42, 44, 56 and 71

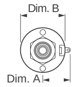
9154B-ND	Grayhill Engineering Catalog	$4.95

Fig. 1

42 and 44 Series:

Adjustable Stop: Two removable stop washers allow you to limit the number of switch positions as needed. A knurled nut is supplied to secure the washers if desired. **Electrical Ratings:** Nonshorting 1 amp, carry 10 amps continuously. **Contact Resistance:** After 25,000 cycles of operation 20 milliohms max. **Insulation Resistance:** 50,000 megohms min. (initially). **Voltage Breakdown:** 1,000VAC initially (500VAC or better after most environmental tests). **Materials & Finishes: Terminals:** Brass, lead-tin plated & fused. **Common Plate, Including Solder Lug:** Brass, silver plated .0003" min.



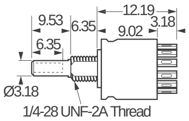


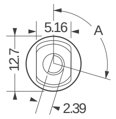
Series 42			*Series 44*		
A	**B**	**C**	**A**	**B**	**C**
14.27	25.40	21.08	16.31	29.51	25.40

Fig. 2

56 Series:

Electrical Ratings: Nonshorting 200mA, carry 6 amps continuously. **Contact Resistance:** 100 milliohms max. (15 milliohms initially). **Insulation Resistance & Voltage Breakdown:** 10,000 megohms min. **Materials & Finishes: Terminals:** Brass, gold over silver over nickel plated.

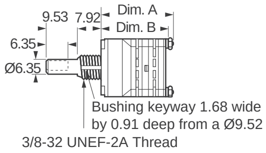


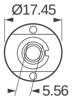


Angle Of Throw	
30°	36°
Angle "A"	
105°	108°

71 Series: **Electrical Ratings:** Nonshorting 1/4 amp, carry 4 amps continuously. **Contact Resistance:** 50 milliohms max. (20 milliohms initially). **Insulation Resistance:** 10,000 megohms min. between mutually insulated parts (50,000 megohms initially). **Materials & Finishes: Base Contacts, Common Plate & Terminals:** Brass, gold plate 5 microinches min. over silver plate 50 microinches min. over nickel 20 microinches min.

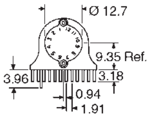
Fig. 3





Dim. A	Dim. B
1 Deck	
19.33	.79
2 Decks	
24.87	.79

Fig. 4



PC Mount —
Rear view

56 and 71 Series

Adjustable Stop:

Allows you to change number of positions per pole.

Simply remove and relocate stop pins in the holes in front of switch.

Pins are held in place by a self-adhesive sticker which fits over the front plate.

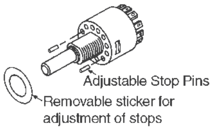


Fig.	Angle Of Throw	Terminals	No. of Poles	Pos. per Pole	No. of Decks	Current Rating Amps	Digi-Key Part No.	Pricing* 1	25	100	Grayhill Part No.
1	36	Solder Lug	SP	10	1	1	GH4201-ND	35.39	707.87	2123.60	42D36-01-1-AJN
	36	Solder Lug	DP	5	1	1	GH4202-ND	36.90	738.05	2214.20	42D36-01-2-AJN
	30	Solder Lug	SP	12	1	1	GH4401-ND	36.32	726.35	2179.11	44D30-01-1-AJN
	30	Solder Lug	DP	6	1	1	GH4402-ND	37.85	757.00	2271.00	44D30-01-2-AJN
2	30	Solder Lug	SP	12	1	200mA	GH5601-ND	10.20	203.97	611.90	56D30-01-1-AJN
	30	Solder Lug	DP	6	1	200mA	GH5602-ND	11.31	226.15	678.40	56D30-01-2-AJN
	36	Solder Lug	SP	10	1	200mA	GH5603-ND	9.87	197.38	592.10	56D36-01-1-AJN
	36	Solder Lug	DP	5	1	200mA	GH5604-ND	10.98	219.68	659.00	56D36-01-2-AJN
3	30	Solder Lug	SP	12	1	250mA	GH7101-ND	14.51	290.27	870.80	71BD30-01-1-AJN
	30	Solder Lug	DP	6	1	250mA	GH7102-ND	15.08	301.52	904.60	71BD30-01-2-AJN
	30	Solder Lug	SP	12	2	250mA	GH7103-ND	18.80	375.90	1127.70	71BD30-02-1-AJN
	30	Solder Lug	DP	6	2	250mA	GH7104-ND	19.97	399.33	1198.00	71BD30-02-2-AJN
4	30	PC	SP	12	1	250mA	GH7105-ND	22.33	468.94	1335.90	71BDF30-01-1-AJN
	30	PC	DP	6	1	250mA	GH7106-ND	23.16	486.36	1385.54	71BDF30-01-2-AJN
	30	PC	SP	12	2	250mA	GH7107-ND	30.62	643.19	1832.30	71BDF30-02-1-AJN
	30	PC	DP	6	2	250mA	GH7108-ND	32.23	677.01	1928.66	71BDF30-02-2-AJN

* Call for pricing of larger quantities

Cannon

ITT Industries
Engineered for life

Adjustable Stop Rotary Switches

Specifications: • **Contact Rating:** Switch-2.5 AMPS @ 125 V AC or 28 V DC; 150 mA @ 250 V AC or DC. Carry - 5 AMPS • **Electrical Life:** 15,000 make-and-break cycles • **Contact Resistance:** 20 milliohms typ. • **Operating Temperature:** -30°C to +85°C ***Materials:*** • **Housing:** Glass filled nylon, red • **Movable Contact:** coin silver, silver plated • **Stationary Contacts & Terminals:** Brass, silver plated • **Hardware:** Nut, Lockwasher, Stop Ring Included

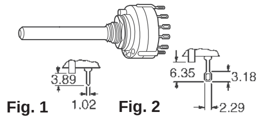


Fig. 1 **Fig. 2**

Fig.	Poles	No. of Pos.	Digi-Key Part No.	Pricing 1	25	100	250	ITT Industries Part No.
1	SP	12	CKC7001-ND	5.58	111.60	353.40	697.50	A11215RNCQ
2	SP	12	CKC7002-ND	5.58	111.60	353.40	697.50	A11215RNZQ
1	DP	6	CKC7003-ND	5.91	118.20	374.30	738.75	A20615RNCQ
2	DP	6	CKC7004-ND	5.91	118.20	374.30	738.75	A20615RNZQ
1	3P	4	CKC7005-ND	5.82	116.40	368.60	727.50	A30415RNCQ
2	3P	4	CKC7006-ND	5.82	116.40	368.60	727.50	A30415RNZQ
1	4P	3	CKC7007-ND	6.39	127.80	404.70	798.75	A40315RNCQ
2	4P	3	CKC7008-ND	6.39	127.80	404.70	798.75	A40315RNZQ

Half-inch Rotary Switches M Series

Specifications:

- **Contact Rating:** Switch-250 mA max. @125V AC or 28 DC; Non-shorting contacts; Carry - 6 AMPS
- **Electrical Life:** 10,000 make-and-break cycles at 150 mA, 125V AC or 28 DC
- **Operating Temperature:** -30°C to +85°C

Fig. 1

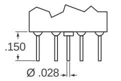
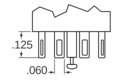


Fig. 2



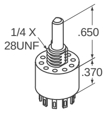


Fig.	Poles	No. of Pos.	Digi-Key Part No.	Pricing 1	25	100	250	ITT Industries Part No.
1	SP	12	CKC7011-ND	11.97	239.40	758.10	1496.25	MC00L1NCQD
	DP	6	CKC7012-ND	13.32	266.40	843.60	1665.00	MD00L1NCQD
2	SP	12	CKC7009-ND	11.52	230.40	729.60	1440.00	MC00L1NZQD
	DP	6	CKC7010-ND	12.87	257.40	815.10	1608.75	MD00L1NZQD

CTS Adjustable Stop Rotary Switches

Specifications: • Adjustable stop allows you to limit the number of switch positions as needed • **Rotor Contact:** Standard with Silver plated Brass • **Rotor:** Standard with Nylon maximum temperature requirements of 125°C • **Voltage and Current ratings:** UL ratings are 3/4 amp at 125 volts AC; 1/4 amp at 250 volts DC; 1/2 amp at 125 volts DC (non-shorting contacts) • **Contact Resistance:** .008 to .010 ohms • **Contact Life:** Silver plated brass, solid silver rotor contacts, and silver plated brass stator contacts provide a minimum reliable life of over 1,100,000 operations or of 50,000 cycles through twelve positions and return without appreciable rise in contact resistance.

Fig. 1

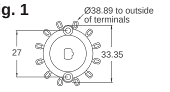
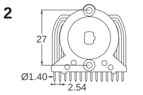


Fig. 2



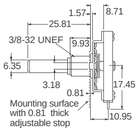
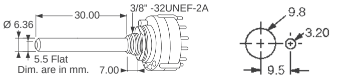


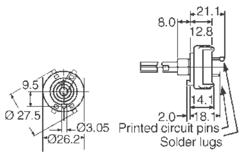
Fig.	Angle of Throw	Type	Terminals	No. Poles	No. Pos.	No. Decks	Current Rating Amps	Digi-Key Part No.	Pricing 1	10	50
1	30°	Non-Short	Solder Lug	SP	12	1	3/4A-125VAC	CT2121-ND	7.59	70.60	292.99
	30°	Shorting	Solder Lug	SP	11	1	3/4A-125VAC	CT2122-ND	7.59	70.60	292.99
2	30°	Non-Short	Printed Circuit	SP	12	1	3/4A-125VAC	CT2123-ND	8.28	77.00	319.55
	30°	Shorting	Printed Circuit	SP	11	1	3/4A-125VAC	CT2124-ND	8.23	76.60	317.89

E-SWITCH Adjustable Stop Rotary Switches KC Series

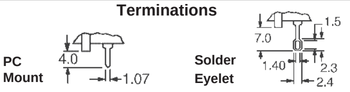
With applications ranging for test & measurement equipment to telephone base stations to hospital controls. These rotary switches have performed exceptionally well.

Contacts (Non-Shorting). Available with solder lugs or printed circuit boards pins with adjustable stops to select any number of positions. **Operating Force:** 570 Grams. **Indexing:** 30° Index. **Contact Rating (Switching):** 150mA 250V AC/DC; 350mA 110V AC/DC. **Contact Rating (Non-Switching):** 5 Amps. **Initial Contact Resistance:** Silver = 50 milliohms max. **Operating Temperature:** –30°C to +85°C. **Moving and Fixed Contact:** Silver plated brass.





Terminations



No. of Pole	No. of Pos.	Termination	Digi-Key Part No.	Pricing 1	10	100	250	E-Switch Part No.
SP	12	PC Mount	EG1951-ND	5.07	45.66	388.93	803.23	KC-52-A-30.0-01-N-P-S
SP	12	Solder Eyelet	EG1952-ND	5.07	45.66	388.93	803.23	KC-52-A-30.0-01-N-L-S
DP	6	PC Mount	EG1953-ND	5.07	45.66	388.93	803.23	KC-26-A-30.0-01-N-P-S
DP	6	Solder Eyelet	EG1954-ND	5.07	45.66	388.93	803.23	KC-26-A-30.0-01-N-L-S
3P	4	PC Mount	EG1955-ND	5.07	45.66	388.93	803.23	KC-34-A-30.0-01-N-P-S
3P	4	Solder Eyelet	EG1956-ND	5.07	45.66	388.93	803.23	KC-34-A-30.0-01-N-L-S
4P	3	PC Mount	EG1957-ND	5.07	45.66	388.93	803.23	KC-43-A-30.0-01-N-P-S
4P	3	Solder Eyelet	EG1958-ND	5.07	45.66	388.93	803.23	KC-43-A-30.0-01-N-L-S

CTS DIP Switches

Electrical Specifications:

Initial Contact Resistance: 25 milliohms (209, 219 Series); 50 milliohms (193, 194, 204, and 206 Series); 100 milliohms (195, 208, and 218 Series).

Max. Contact Resistance: 100 milliohms after 10,000 cycles switching 50mA @ 24VDC (206 Series); 100 milliohms after 7,000 cycles switching 50mA @ 24VDC (193 and 194 Series); 500 milliohms after 2,000 cycles switching 50mA @ 24VDC (195 Series); 500 milliohms after 2,000 cycles switching 50mA @ 15VDC or 100mΩ after 1,000 cycles switching 25mA @ 24VDC (208 Series); 50 milliohms max. at end of life (209 and 219 Series).

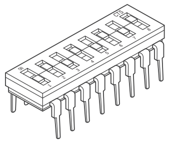
Gold finish refers to internal contact area of the switch, terminals are solder coated.

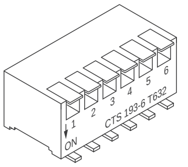
Max. Non-Switching Rating: 100mA or 50VDC.

Insulation Resistance: Across open switch and between adjacent closed switches - 1 x 10^9 ohms (218 Series: 100mΩ min.).

Dielectric Breakdown: 500VDC max. for 1 min. (218 Series – 300VDC max.).

Switch Capacitance: Between adjacent switches max. - 5.0pF (218 Series: 10pF).





Shock: Per MIL-STD-202F, method 213B, condition A with no contact inconsistencies greater than 1µsec (206, 208, 209 and 219 Series); no mechanical damage or changes of switch settings with 25G applied (193, 194, 195, 204 and 218 Series).

Vibration: Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10Hz to 2KHz) with no contact inconsistencies greater than 1µsec (204, 206, 208, 209, 218, and 219 Series). No mechanical damage or changes of switch settings during or after testing when tested in three mutually perpendicular planes at 10-50Hz sweep or at 60Hz constant vibration (193, 194 and 195 Series).

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	CTS Part No.
206 Series — SPST, Gold Finish, Lt. Blue Body							
1	2	7.26	CT2062-ND	1.28	11.73	106.65	206-2
	3	9.80	CT2063-ND	1.01	9.28	84.38	206-3
	4	12.34	CT2064-ND	.59	5.45	49.50	206-4
	5	14.88	CT2065-ND	.73	6.68	60.75	206-5
	6	17.42	CT2066-ND	1.09	9.97	90.68	206-6
	7	19.96	CT2067-ND	1.10	10.05	91.35	206-7
	8	22.50	CT2068-ND	.65	5.94	54.00	206-8
	9	25.04	CT2069-ND	1.06	9.73	88.43	206-9
	10	27.58	CT20610-ND	1.08	9.90	90.00	206-10
	12	32.66	CT20612-ND	1.24	11.39	103.50	206-12
206-ST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
1	2	7.26	CT2062ST-ND	1.36	12.47	113.40	206-2ST
	3	9.80	CT2063ST-ND	1.09	9.95	90.45	206-3ST
	4	12.34	CT2064ST-ND	.68	6.19	56.25	206-4ST
	5	14.88	CT2065ST-ND	.97	8.86	80.55	206-5ST
	6	17.42	CT2066ST-ND	.76	6.93	63.00	206-6ST
	7	19.96	CT2067ST-ND	1.27	11.61	105.53	206-7ST
	8	22.50	CT2068ST-ND	.73	6.68	60.75	206-8ST
	9	25.04	CT2069ST-ND	1.21	11.09	100.80	206-9ST
	10	27.58	CT20610ST-ND	1.03	9.41	85.50	206-10ST
	12	32.66	CT20612ST-ND	1.45	13.27	120.60	206-12ST
208 Series — SPST, Tin Finish, Black Body							
1	2	7.26	CT2082-ND	1.05	9.65	87.75	208-2
	3	9.80	CT2083-ND	.97	8.91	81.00	208-3
	4	12.34	CT2084-ND	.51	4.70	42.75	208-4
	5	14.88	CT2085-ND	.78	7.18	65.25	208-5
	6	17.42	CT2086-ND	.81	7.43	67.50	208-6
	7	19.96	CT2087-ND	.86	7.92	72.00	208-7
	8	22.50	CT2088-ND	.54	4.95	45.00	208-8
	9	25.04	CT2089-ND	.92	8.42	76.50	208-9
	10	27.58	CT20810-ND	1.00	9.16	83.25	208-10
	12	32.66	CT20812-ND	1.11	10.15	92.25	208-12
206-124 — SPDT, Gold Finish, Lt. Blue Body							
1	4	22.50	CT206124-ND	2.08	19.03	173.03	206-124
206-214 — DPST, Gold Finish, Lt. Blue Body							
1	4	22.50	CT206214-ND	1.62	14.87	135.23	206-214
194-MST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
2	2	7.26	CT1942MST-ND	1.40	12.87	117.00	194-2MST
	3	9.80	CT1943MST-ND	.95	8.66	78.75	194-3MST
	4	12.34	CT1944MST-ND	.86	7.92	72.00	194-4MST
	5	14.88	CT1945MST-ND	1.46	13.37	121.50	194-5MST
	6	17.42	CT1946MST-ND	1.35	12.38	112.50	194-6MST
	7	19.96	CT1947MST-ND	1.59	14.60	132.75	194-7MST
	8	22.50	CT1948MST-ND	.95	8.66	78.75	194-8MST
	9	25.04	CT1949MST-ND	1.70	15.59	141.75	194-9MST
	10	27.58	CT19410MST-ND	1.54	14.11	128.25	194-10MST
	12	32.66	CT19412MST-ND	1.89	17.33	157.50	194-12MST
195-MST Series — SPST, Tin Finish, Sealed, Black Body							
2	2	7.26	CT1952MST-ND	.81	7.43	67.50	195-2MST
	3	9.80	CT1953MST-ND	1.38	12.62	114.75	195-3MST
	4	12.34	CT1954MST-ND	.89	8.14	74.03	195-4MST
	5	14.88	CT1955MST-ND	1.30	11.88	108.00	195-5MST
	6	17.42	CT1956MST-ND	1.16	10.64	96.75	195-6MST
	7	19.96	CT1957MST-ND	1.40	12.87	117.00	195-7MST
	8	22.50	CT1958MST-ND	1.22	11.14	101.25	195-8MST
	9	25.04	CT1959MST-ND	1.51	13.86	126.00	195-9MST
	10	27.58	CT19510MST-ND	1.32	12.13	110.25	195-10MST
	12	32.66	CT19512MST-ND	1.59	14.60	132.75	195-12MST
CT206-RAST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
3	2	7.26	CT2062RAST-ND	1.64	15.00	136.35	206-2RAST
	3	9.80	CT2063RAST-ND	1.30	11.88	108.00	206-3RAST
	4	12.34	CT2064RAST-ND	1.03	9.41	85.50	206-4RAST
	5	14.88	CT2065RAST-ND	1.00	9.18	83.48	206-5RAST
	6	17.42	CT2066RAST-ND	1.27	11.63	105.75	206-6RAST
	7	19.96	CT2067RAST-ND	1.52	13.91	126.45	206-7RAST
	8	22.50	CT2068RAST-ND	1.27	11.63	105.75	206-8RAST
	9	25.04	CT2069RAST-ND	1.50	13.76	125.10	206-9RAST
	10	27.58	CT20610RAST-ND	1.93	17.65	160.43	206-10RAST
	12	32.66	CT20612RAST-ND	1.73	15.86	144.23	206-12RAST
209-LPST Series — SPST, Gold Finish, Flush, Sealed, Black Body							
4	2	6.55	CT2092LPST-ND	.68	6.19	56.25	209-2LPST
	3	9.09	CT2093LPST-ND	.73	6.68	60.75	209-3LPST
	4	11.63	CT2094LPST-ND	.57	5.20	47.25	209-4LPST
	5	14.17	CT2095LPST-ND	.92	8.42	76.50	209-5LPST
	6	16.71	CT2096LPST-ND	.73	6.68	60.75	209-6LPST
4	7	19.25	CT2097LPST-ND	1.08	9.90	90.00	209-7LSTPT
	8	21.79	CT2098LPST-ND	.73	6.68	60.75	209-8LPST
	9	24.33	CT2099LPST-ND	1.27	11.63	105.75	209-9LPST
	10	26.87	CT20910LPST-ND	1.35	12.38	112.50	209-10LPST
	12	31.95	CT20912LPST-ND	1.51	13.86	126.00	209-12LPST
209-MS Series — SPST, Gold Finish, Extended, Sealed, Black Body							
4	2	6.55	CT2092MS-ND	.65	5.94	54.00	209-2MS
	3	9.09	CT2093MS-ND	.70	6.44	58.50	209-3MS
	4	11.63	CT2094MS-ND	.78	7.18	65.25	209-4MS
	5	14.17	CT2095MS-ND	.89	8.17	74.25	209-5MS
	6	16.71	CT2096MS-ND	.97	8.91	81.00	209-6MS
	7	19.25	CT2097MS-ND	1.05	9.65	87.75	209-7MS
	8	21.79	CT2098MS-ND	1.13	10.40	94.50	209-8MS
	9	24.33	CT2099MS-ND	1.24	11.39	103.50	209-9MS
	10	26.87	CT20910MS-ND	1.32	12.13	110.25	209-10MS
	12	31.95	CT20912MS-ND	1.49	13.61	123.75	209-12MS
219-LPST Series — SPST, Gold Finish, Flush, Sealed, Brown Body							
5	2	6.55	CT2192LPST-ND	.58	5.30	48.15	219-2LPST
	3	9.09	CT2193LPST-ND	.78	7.18	65.25	219-3LPST
	4	11.63	CT2194LPST-ND	.59	5.45	49.50	219-4LPST
	5	14.17	CT2195LPST-ND	.95	8.66	78.75	219-5LPST
	6	16.71	CT2196LPST-ND	.87	8.02	72.90	219-6LPST
	7	19.25	CT2197LPST-ND	1.13	10.40	94.50	219-7LPST
	8	21.79	CT2198LPST-ND	.92	8.42	76.50	219-8LPST
	9	24.33	CT2199LPST-ND	1.30	11.88	108.00	219-9LPST
	10	26.87	CT21910LPST-ND	1.15	10.54	95.85	219-10LPST
	12	31.95	CT21912LPST-ND	1.54	14.11	128.25	219-12LPST
219-MST Series — SPST, Gold Finish, Extended, Sealed, Brown Body							
5	2	6.55	CT2192MST-ND	.49	4.46	40.50	219-2MST
	3	9.09	CT2193MST-ND	.78	7.18	65.25	219-3MST
	4	11.63	CT2194MST-ND	.59	5.45	49.50	219-4MST
	5	14.17	CT2195MST-ND	.95	8.66	78.75	219-5MST
	6	16.71	CT2196MST-ND	1.03	9.41	85.50	219-6MST
	7	19.25	CT2197MST-ND	1.13	10.40	94.50	219-7MST
	8	21.79	CT2198MST-ND	.95	8.66	78.75	219-8MST
	9	24.33	CT2199MST-ND	1.30	11.88	108.00	219-9MST
	10	26.87	CT21910MST-ND	1.35	12.38	112.50	219-10MST
	12	31.95	CT21912MST-ND	1.54	14.11	128.25	219-12MST
193 Series — SPST, Gold Finish, Brown Body							
6	2	7.26	CT1932MS-ND	1.95	15.57	137.61	193-2MS
	3	9.80	CT1933MS-ND	2.02	16.18	143.06	193-3MS
	4	12.34	CT1934MS-ND	1.78	14.25	130.63	193-4MS
	5	14.88	CT1935MS-ND	2.06	16.50	151.25	193-5MS
	6	17.42	CT1936MS-ND	2.09	16.74	148.01	193-6MS
	7	19.96	CT1937MS-ND	2.28	18.20	160.88	193-7MS
	8	22.50	CT1938MS-ND	1.97	15.79	139.59	193-8MS
204 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
7	2	7.26	CT2042ST-ND	1.77	15.21	139.43	204-2ST
	3	9.80	CT2043ST-ND	1.79	14.28	126.23	204-3ST
	4	12.34	CT2044ST-ND	1.51	12.90	118.25	204-4ST
	5	14.88	CT2045ST-ND	1.58	13.50	123.75	204-5ST
	6	17.42	CT2046ST-ND	1.61	13.80	126.50	204-6ST
	7	19.96	CT2047ST-ND	1.68	14.40	132.00	204-7ST
	8	22.50	CT2048ST-ND	1.72	14.70	134.75	204-8ST
	9	25.04	CT2049ST-ND	1.79	15.30	140.25	204-9ST
	10	27.58	CT20410ST-ND	1.89	16.20	148.50	204-10ST
	12	32.66	CT20412ST-ND	2.07	17.70	162.25	204-12ST
204 Series — SPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204121ST-ND	2.03	17.40	159.50	204-121ST
	1	7.26	CT204121LPST-ND	2.17	18.60	170.50	204-121LPST
204 Series — DPST, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204211ST-ND	1.54	12.32	108.90	204-211ST
	2	12.34	CT204212ST-ND	1.89	15.12	133.65	204-212ST
	3	17.42	CT204213ST-ND	2.03	17.40	159.50	204-213ST
	4	22.50	CT204214ST-ND	2.17	17.36	153.45	204-214ST
	5	27.58	CT204215ST-ND	2.20	18.30	167.75	204-215ST
	6	32.66	CT204216ST-ND	2.42	22.43	207.00	204-216ST
204 Series — DPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	12.34	CT204221ST-ND	2.99	25.65	235.13	204-221ST
	2	22.50	CT204222ST-ND	1.89	15.12	133.65	204-222ST
	3	32.66	CT204223ST-ND	2.17	17.36	153.45	204-223ST
218 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
8	2	3.71	CT2182LPST-ND	1.90	15.18	134.15	218-2LPST
	4	6.25	CT2184LPST-ND	1.89	15.12	133.65	218-4LPST
	6	8.79	CT2186LPST-ND	2.52	20.13	177.95	218-6LPST
	8	11.33	CT2188LPST-ND	3.25	25.98	229.68	218-8LPST
	10	13.87	CT21810LPST-ND	1.78	14.25	125.98	218-10LPST

Fig. 1 - Top Actuated Slide

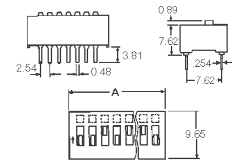


Fig. 2 - Side Actuated

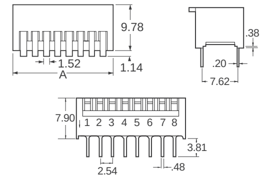


Fig. 3 - Right Angle Slide

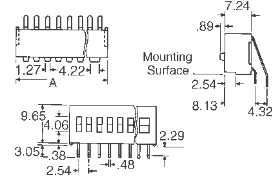


Fig. 4 - Top Actuated - Auto Dip

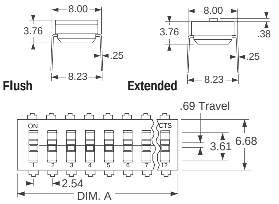


Fig. 5 - Surface Mount

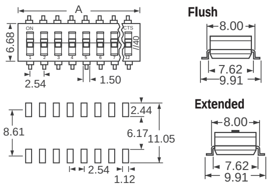


Fig. 6 - SMT Side Actuated

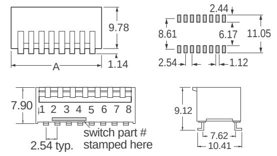
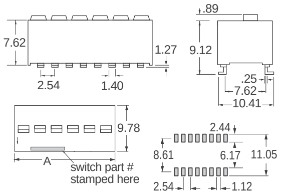
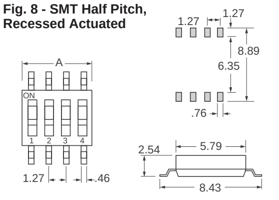


Fig. 7 - SMT Top Slide, Extended Act.



Standard model shown.
Low Profile also available (CT204121LPST-ND)

Fig. 8 - SMT Half Pitch, Recessed Actuated



DIP Switches

Specifications: • **Contact Rating:** 25mA @ 24VDC or 100mA @ 5VDC • **Operating Temperature:** -20°C to +85°C • **Operating Force:** 800 grams max.

Materials: • **Housing:** PPA color: Red (UL94V-0) • **Actuator:** Nylon (UL 94V-0) • **Contacts:** Gold-plated BeCu • **Terminals:** SnPb-plated brass.

Dim. in mm

Fig. 1

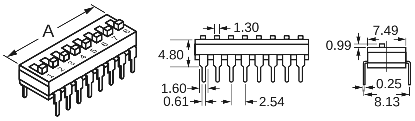


Fig. 2

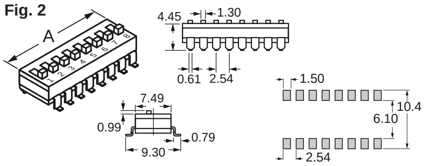


Fig. 3

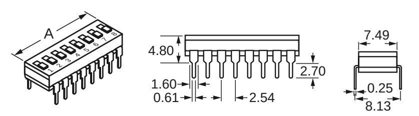


Fig. 4

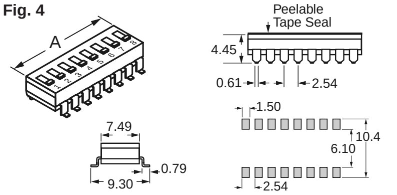


Fig. 5

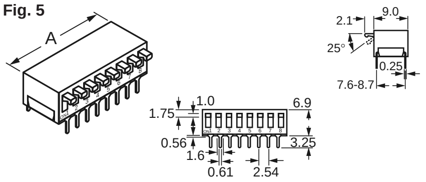


Fig. 6

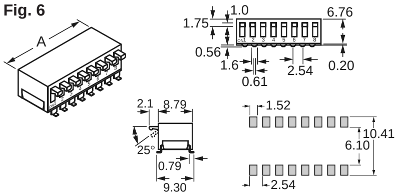
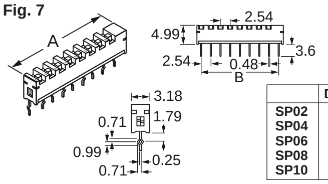
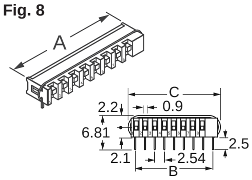


Fig. 7



	Dim. B (mm)
SP02	2.54
SP04	7.62
SP06	12.70
SP08	17.78
SP10	22.86

Fig. 8



	Dim. (mm) B	C
SP02A	2.54	8.58
SP04A	7.62	13.66
SP06A	12.70	18.74
SP08A	17.78	23.82
SP10A	22.86	28.90

Fig. 9 – PC Mount

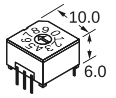


Fig. 10 – Right Angle

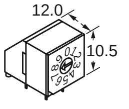


Fig. 11 – SMT

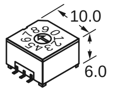


Fig.	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
DIP Top Slide with Extended Actuator — Unsealed								
1	2	.278 (7.06)	CKN1276-ND	1.05	.84	.67	.53	SDA02H1KD
	3	.378 (9.60)	CKN1277-ND	1.11	.89	.71	.56	SDA03H1KD
	4	.476 (12.10)	CKN1278-ND	1.17	.94	.75	.59	SDA04H1KD
	6	.676 (17.18)	CKN1280-ND	1.26	1.01	.80	.63	SDA06H1KD
	7	.778 (19.76)	CKN1281-ND	1.35	1.08	.86	.68	SDA07H1KD
	8	.876 (22.26)	CKN1282-ND	1.50	1.20	.95	.75	SDA08H1KD
	9	.978 (24.84)	CKN1283-ND	1.65	1.32	1.05	.83	SDA09H1KD
	10	1.076 (27.34)	CKN1284-ND	1.77	1.42	1.13	.89	SDA10H1KD
	12	1.279 (32.50)	CKN1285-ND	1.95	1.56	1.24	.98	SDA12H1KD
SMT Top Slide with Extended Actuator — Unsealed								
2	2	.278 (7.06)	CKN1286-ND	1.53	1.23	.97	.77	SDA02H1SKD
	3	.378 (9.60)	CKN1287-ND	1.62	1.30	1.03	.81	SDA03H1SKD
	4	.476 (12.10)	CKN1288-ND	1.71	1.37	1.09	.86	SDA04H1SKD
	5	.578 (14.68)	CKN1289-ND	1.86	1.49	1.18	.93	SDA05H1SKD
	6	.676 (17.18)	CKN1290-ND	1.98	1.59	1.26	.99	SDA06H1SKD
	7	.778 (19.76)	CKN1291-ND	1.98	1.59	1.26	.99	SDA07H1SKD
	8	.876 (22.26)	CKN1292-ND	2.16	1.73	1.37	1.08	SDA08H1SKD
	9	.978 (24.84)	CKN1293-ND	2.40	1.92	1.52	1.20	SDA09H1SKD
	10	1.076 (27.34)	CKN1294-ND	2.55	2.04	1.62	1.28	SDA10H1SKD
	12	1.279 (32.50)	CKN1295-ND	2.82	2.26	1.79	1.41	SDA12H1SKD
DIP Top Slide with Flush Actuator — Unsealed								
3	2	.278 (7.06)	CKN1296-ND	1.05	.84	.67	.53	SDA02H0KD
	3	.378 (9.60)	CKN1297-ND	1.11	.89	.71	.56	SDA03H0KD
	4	.476 (12.10)	CKN1298-ND	1.17	.94	.75	.59	SDA04H0KD
	5	.578 (14.68)	CKN1299-ND	1.23	.99	.78	.62	SDA05H0KD
	6	.676 (17.18)	CKN1300-ND	1.26	1.01	.80	.63	SDA06H0KD
	7	.778 (19.76)	CKN1301-ND	1.35	1.08	.86	.68	SDA07H0KD
	8	.876 (22.26)	CKN1302-ND	1.50	1.20	.95	.75	SDA08H0KD
	9	.978 (24.84)	CKN1303-ND	1.65	1.32	1.05	.83	SDA09H0KD
	10	1.076 (27.34)	CKN1304-ND	1.77	1.42	1.13	.89	SDA10H0KD
	12	1.279 (32.50)	CKN1305-ND	1.95	1.56	1.24	.98	SDA12H0KD
DIP Top Slide with Flush Actuator — Tape Sealed								
3	2	.278 (7.06)	CKN1306-ND	1.20	.96	.76	.60	SDA02H0K
	3	.378 (9.60)	CKN1307-ND	1.23	.99	.78	.62	SDA03H0K
	4	.476 (12.10)	CKN1308-ND	1.29	1.04	.82	.65	SDA04H0K
	5	.578 (14.68)	CKN1309-ND	1.35	1.08	.86	.68	SDA05H0K
	6	.676 (17.18)	CKN1310-ND	1.41	1.13	.90	.71	SDA06H0K
	7	.778 (19.76)	CKN1311-ND	1.50	1.20	.95	.75	SDA07H0K
	8	.876 (22.26)	CKN1312-ND	1.65	1.32	1.05	.83	SDA08H0K
	9	.978 (24.84)	CKN1313-ND	1.77	1.42	1.13	.89	SDA09H0K
	10	1.076 (27.34)	CKN1314-ND	1.92	1.54	1.22	.96	SDA10H0K
	12	1.279 (32.50)	CKN1315-ND	2.07	1.66	1.32	1.04	SDA12H0K
SMT Top Slide with Flush Actuator — Unsealed								
4	2	.278 (7.06)	CKN1316-ND	1.53	1.23	.97	.77	SDA02H0SKD
	3	.378 (9.60)	CKN1317-ND	1.62	1.30	1.03	.81	SDA03H0SKD
	4	.476 (12.10)	CKN1318-ND	1.71	1.37	1.09	.86	SDA04H0SKD
	5	.578 (14.68)	CKN1319-ND	1.77	1.42	1.13	.89	SDA05H0SKD
	6	.676 (17.18)	CKN1320-ND	1.86	1.49	1.18	.93	SDA06H0SKD
	7	.778 (19.76)	CKN1321-ND	1.98	1.59	1.26	.99	SDA07H0SKD
	8	.876 (22.26)	CKN1322-ND	2.16	1.73	1.37	1.08	SDA08H0SKD
	9	.978 (24.84)	CKN1323-ND	2.40	1.92	1.52	1.20	SDA09H0SKD
	10	1.076 (27.34)	CKN1324-ND	2.55	2.04	1.62	1.28	SDA10H0SKD
	12	1.279 (32.50)	CKN1325-ND	2.82	2.26	1.79	1.41	SDA12H0SKD

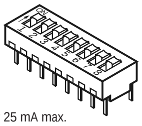
Fig.	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
SMT Top Slide with Flush Actuator — Tape Sealed								
4	2	.278 (7.06)	CKN1326-ND	1.68	1.35	1.07	.84	SDA02H0SK
	3	.378 (9.60)	CKN1327-ND	1.77	1.42	1.13	.89	SDA03H0SK
	4	.476 (12.10)	CKN1328-ND	1.83	1.47	1.16	.92	SDA04H0SK
	5	.578 (14.68)	CKN1329-ND	1.92	1.54	1.22	.96	SDA05H0SK
	6	.676 (17.18)	CKN1330-ND	2.01	1.61	1.28	1.01	SDA06H0SK
	7	.778 (19.76)	CKN1331-ND	2.10	1.68	1.33	1.05	SDA07H0SK
	8	.876 (22.26)	CKN1332-ND	2.31	1.85	1.47	1.16	SDA08H0SK
	9	.978 (24.84)	CKN1333-ND	2.55	2.04	1.62	1.28	SDA09H0SK
	10	1.076 (27.34)	CKN1334-ND	2.67	2.14	1.70	1.34	SDA10H0SK
	12	1.279 (32.50)	CKN1335-ND	2.94	2.36	1.87	1.47	SDA12H0SK
Side Actuated DIP — Unsealed								
5	2	.280 (7.11)	CKN1336-ND	1.29	1.04	.82	.65	BPA02K
	4	.480 (12.19)	CKN1337-ND	1.47	1.18	.94	.74	BPA04K
	5	.578 (14.68)	CKN1338-ND	1.56	1.25	.99	.78	BPA05K
	6	.680 (17.30)	CKN1339-ND	1.74	1.40	1.11	.87	BPA06K
	7	.778 (19.76)	CKN1340-ND	1.80	1.44	1.14	.90	BPA07K
	8	.878 (22.30)	CKN1341-ND	1.80	1.44	1.14	.90	BPA08K
	9	.978 (24.84)	CKN1342-ND	1.95	1.56	1.24	.98	BPA09K
	10	1.078 (27.43)	CKN1343-ND	2.04	1.64	1.30	1.02	BPA10K
SMT Side Actuated DIP — Unsealed								
6	2	.280 (7.11)	CKN1344-ND	1.41	1.13	.90	.71	BPA02SK
	4	.480 (12.19)	CKN1345-ND	1.62	1.30	1.03	.81	BPA04SK
	5	.578 (14.68)	CKN1346-ND	1.71	1.37	1.09	.86	BPA05SK
	6	.680 (17.30)	CKN1347-ND	1.92	1.54	1.22	.96	BPA06SK
	7	.778 (19.76)	CKN1348-ND	1.74	1.40	1.11	.87	BPA07SK
	8	.878 (22.30)	CKN1349-ND	1.98	1.59	1.26	.99	BPA08SK
	9	.978 (24.84)	CKN1350-ND	2.16	1.73	1.37	1.08	BPA09SK
	10	1.078 (27.43)	CKN1351-ND	2.25	1.80	1.43	1.13	BPA10SK
Top Slide Single In-Line SIP — Unsealed								
7	2	.298 (7.58)	CKN1352-ND	2.25	1.80	1.43	1.13	SP02
	4	.498 (12.66)	CKN1353-ND	2.55	2.04	1.62	1.28	SP04
	6	.698 (17.74)	CKN1354-ND	2.97	2.38	1.89	1.49	SP06
	8	.898 (22.82)	CKN1355-ND	3.45	2.76	2.19	1.73	SP08
	10	1.098 (27.9)	CKN1356-ND	4.35	3.48	2.76	2.18	SP10
Rt. Angle Single In-Line SIP — Unsealed								
8	2	.298 (7.58)	CKN1357-ND	3.15	2.52	2.00	1.58	SP02A
	4	.498 (12.66)	CKN1358-ND	3.36	2.69	2.13	1.68	SP04A
	6	.698 (17.74)	CKN1359-ND	4.05	3.24	2.57	2.03	SP06A
	8	.898 (22.82)	CKN1360-ND	4.44	3.56	2.82	2.22	SP08A
	10	1.098 (27.9)	CKN1361-ND	4.80	3.84	3.04	2.40	SP10A

Fig.	Type	Actuator	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
10mm Rotary Dip - PC Mount - Process Sealed								
9	BCD	Flush	CKN1367-ND	4.26	3.94	3.28	2.46	CRD10RM0CK
	BCD Comp	Flush	CKN1368-ND	4.26	3.94	3.28	2.46	CRD10CM0CK
	HEX	Flush	CKN1369-ND	4.68	4.32	3.60	2.70	CRD16RM0CK
	HEX Comp	Flush	CKN1370-ND	4.68	4.32	3.60	2.70	CRD16CM0CK
10mm Rotary Dip - Right Angle Mount - Process Sealed								
10	BCD	Flush	CKN1371-ND	5.04	4.66	3.88	2.91	CRD10RM0AK
	BCD Comp	Flush	CKN1372-ND	5.04	4.66	3.88	2.91	CRD10CM0AK
	HEX	Flush	CKN1373-ND	5.54	5.12	4.26	3.20	CRD16RM0AK
	HEX Comp	Flush	CKN1374-ND	5.54	5.12	4.26	3.20	CRD16CM0AK
10mm Rotary Dip - Surface Mount - Process Sealed								
11	BCD	Flush	CKN1375-ND	4.81	4.44	3.70	2.78	CRD10RM0SK
	BCD Comp	Flush	CKN1376-ND	4.81	4.44	3.70	2.78	CRD10CM0SK
	HEX	Flush	CKN1377-ND	5.28	4.88	4.06	3.05	CRD16RM0SK
	HEX Comp	Flush	CKN1378-ND	5.28	4.88	4.06	3.05	CRD16CM0SK

Cannon

ITT Industries
Engineered for life

DIP Switches



SPECIFICATIONS: • **Switch Function:** SPST • **Contact Rating:** Switch: 100mA max @ 5VDC or 25 mA max. at 25 VDC • **Mechanical & Electrical Life:** 2,000 make-and-break cycles at full load, each circuit • **Contact Resistance:** Below 50 milliohms typ. • **Dielectric Strength:** 500V RMS • **Operating Temp.:** -40°C to +85°C

MATERIALS: • **Case & Cover:** Glass filled polyester (UL 94V-0), Flame retardant, Red in color • **Actuator:** Glass filled nylon 6/6, flame retardant (UL 94V-0) • **Contacts:** Copper alloy, with gold plate over nickel plate • **Terminals:** Copper alloy, with tin-lead alloy over nickel plate • **Terminal Seal:** Epoxy • **Tape Seal:** Polyimide • Proven washable design — open base design allows cleaners to flush through • High temperature materials (UL 94V-0) withstands soldering and cleaning temperatures and processes • Slide actuators with positive detent — prevent accidental actuation • Reliable wiping contact mechanism • Tin-lead alloy coats all sides of terminals for joint integrity

Fig. 1 Top Slide

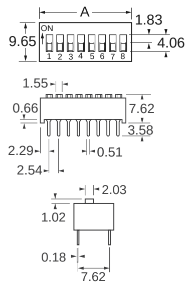


Fig. 2 Rt Angle Slide

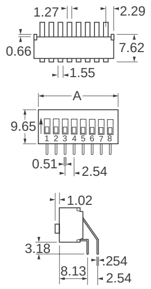


Fig. 3 Side Actuate

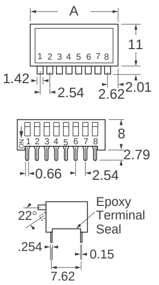


Fig. 4 Low Profile

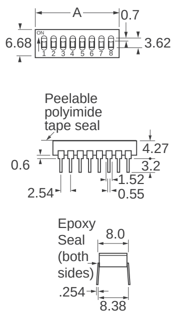
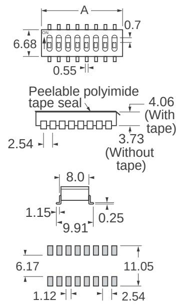


Fig. 5 SMT



PCB Land Pattern

Fig. 6 Half Pitch

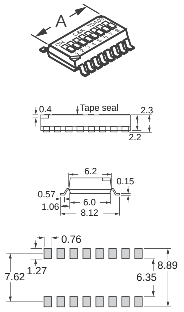


Fig.	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
Top Slide, Extended Actuator — Unsealed								
1	2	.280 (7.11)	CKN3001-ND	1.59	1.28	1.01	.80	BD02
	3	.380 (9.65)	CKN3002-ND	1.59	1.28	1.01	.80	BD03
	4	.480 (12.19)	CKN3003-ND	1.74	1.40	1.11	.87	BD04
	5	.580 (14.73)	CKN3004-ND	1.77	1.42	1.13	.89	BD05
	6	.680 (17.27)	CKN3005-ND	1.83	1.47	1.16	.92	BD06
	7	.780 (19.81)	CKN3006-ND	1.92	1.54	1.22	.96	BD07
	8	.880 (22.35)	CKN3007-ND	1.98	1.59	1.26	.99	BD08
	9	.980 (24.89)	CKN3008-ND	2.07	1.66	1.32	1.04	BD09
	10	1.080 (27.43)	CKN3009-ND	2.13	1.71	1.35	1.07	BD10
	12	1.280 (32.51)	CKN3010-ND	2.28	1.83	1.45	1.14	BD12
Right Angle Slide, Extended Actuator — Unsealed								
2	2	.280 (7.11)	CKN3011-ND	2.70	2.16	1.71	1.35	BD02AV
	3	.380 (9.65)	CKN3012-ND	2.70	2.16	1.71	1.35	BD03AV
	4	.480 (12.19)	CKN3013-ND	2.85	2.28	1.81	1.43	BD04AV
	5	.580 (14.73)	CKN3014-ND	2.88	2.31	1.83	1.44	BD05AV
	6	.680 (17.27)	CKN3015-ND	2.97	2.38	1.89	1.49	BD06AV
	7	.780 (19.81)	CKN3016-ND	3.03	2.43	1.92	1.52	BD07AV
	8	.880 (22.35)	CKN3017-ND	3.09	2.48	1.96	1.55	BD08AV
	9	.980 (24.89)	CKN3018-ND	3.18	2.55	2.02	1.59	BD09AV
	10	1.080 (27.43)	CKN3019-ND	3.24	2.60	2.06	1.62	BD10AV
	12	1.280 (32.51)	CKN3020-ND	3.39	2.72	2.15	1.70	BD12AV
Side Actuated — Tape Sealed								
3	2	.306 (7.77)	CKN3021-ND	1.47	1.18	.94	.74	BP02YT
	3	.406 (10.31)	CKN3022-ND	1.62	1.30	1.03	.81	BP03YT
	4	.506 (12.85)	CKN3023-ND	1.65	1.32	1.05	.83	BP04YT
	5	.606 (15.39)	CKN3024-ND	1.74	1.40	1.11	.87	BP05YT
	6	.706 (17.93)	CKN3025-ND	1.92	1.54	1.22	.96	BP06YT
	7	.806 (20.47)	CKN3026-ND	1.98	1.59	1.26	.99	BP07YT
	8	.906 (23.00)	CKN3027-ND	1.98	1.59	1.26	.99	BP08YT
	10	1.106 (28.09)	CKN3028-ND	2.22	1.78	1.41	1.11	BP10YT
	12	1.306 (33.17)	CKN3029-ND	2.49	2.00	1.58	1.25	BP12YT
Low Profile Auto Insert — SD Series — Tape Sealed								
4	2	.258 (6.55)	CKN3064-ND	1.32	1.06	.84	.66	SD02H0K
	3	.358 (9.09)	CKN3065-ND	1.38	1.11	.88	.69	SD03H0K
	4	.458 (11.63)	CKN3066-ND	1.44	1.16	.92	.72	SD04H0K
	5	.558 (14.17)	CKN3067-ND	1.50	1.20	.95	.75	SD05H0K
	6	.658 (16.71)	CKN3068-ND	1.56	1.25	.99	.78	SD06H0K
	7	.758 (19.25)	CKN3069-ND	1.65	1.32	1.05	.83	SD07H0K
	8	.858 (21.79)	CKN3070-ND	1.83	1.47	1.16	.92	SD08H0K
	9	.958 (24.33)	CKN3071-ND	1.98	1.59	1.26	.99	SD09H0K
	10	1.058 (26.87)	CKN3072-ND	2.13	1.71	1.35	1.07	SD10H0K
	12	1.258 (31.95)	CKN3073-ND	2.31	1.85	1.47	1.16	SD12H0K
Low Profile Surface Mount — SD Series — Tape Sealed								
5	2	.258 (6.55)	CKN3054-ND	1.86	1.49	1.18	.93	SD02H0SK
	3	.358 (9.09)	CKN3055-ND	1.95	1.56	1.24	.98	SD03H0SK
	4	.458 (11.63)	CKN3056-ND	2.04	1.64	1.30	1.02	SD04H0SK
	5	.558 (14.17)	CKN3057-ND	2.13	1.71	1.35	1.07	SD05H0SK
	6	.658 (16.71)	CKN3058-ND	2.22	1.78	1.41	1.11	SD06H0SK
	7	.758 (19.25)	CKN3059-ND	1.44	1.16	.92	.72	SD07H0SK
	8	.858 (21.79)	CKN3060-ND	2.55	2.04	1.62	1.28	SD08H0SK
	9	.958 (24.33)	CKN3061-ND	2.82	2.26	1.79	1.41	SD09H0SK
	10	1.058 (26.87)	CKN3062-ND	2.97	2.38	1.89	1.49	SD10H0SK
	12	1.258 (31.95)	CKN3063-ND	3.27	2.62	2.08	1.64	SD12H0SK
Half Pitch Surface Mount — TDA Series — Tape Sealed								
6	2	.144 (3.67)	CKN1362-ND	2.10	1.68	1.33	1.05	TDA02H0SK1
	4	.244 (6.21)	CKN1363-ND	2.22	1.78	1.41	1.11	TDA04H0SK1
	6	.344 (8.75)	CKN1364-ND	2.64	2.12	1.68	1.32	TDA06H0SK1
	8	.444 (11.29)	CKN1365-ND	3.03	2.43	1.92	1.52	TDA08H0SK1
	10	.544 (13.83)	CKN1366-ND	4.47	3.58	2.84	2.24	TDA10H0SK1

Cannon

ITT Industries
Engineered for life

8mm DIP Coded Rotary Switches

Specifications: • **Contact Ratings:** 0.4 VA max. @ 20 V AC or V DC max. • **Mechanical & Electrical Life:** 20,000 position changes • **Contact Resistance:** 50 milliohms max. initial • **Operating Temperature:** –25°C to +85°C. **Materials:** • **Cover & Base:** Glass filled nylon, flame retardant, heat stabilized (UL 94V-0) • **Actuator:** LCP (UL 94V-0), internal o-ring seal standard with all actuators • **Movable Contacts:** Copper alloy, with gold plate over nickel plate • **Terminals:** Copper alloy, with tin-lead alloy over nickel plate. All terminals are insert molded.

Fig. 1 – Vertical

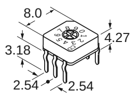


Fig. 2 – Right Angle

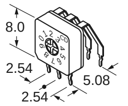
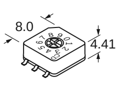
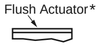


Fig. 3 – SMT



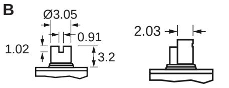
Actuator Options

A



*Designed for #0 phillips screwdriver.

B



C

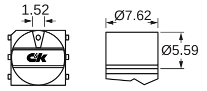


Fig.	Type	Actuator	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
1	BCD	A	CKN3044-ND	4.26	3.94	3.28	2.46	CD10RM0CK
1	BCD	B	CKN3045-ND	4.89	4.52	3.77	2.83	CD10RL1CK
1	BCD	C	CKN1224-ND	5.71	5.28	4.40	3.30	CD10RK1CK
2	BCD	A	CKN3046-ND	5.03	4.65	3.87	2.91	CD10RM0AK
2	BCD	B	CKN3047-ND	5.64	5.21	4.34	3.26	CD10RL1AK
2	BCD	C	CKN1226-ND	6.46	5.97	4.97	3.73	CD10RK1AK
3	BCD	A	CKN3048-ND	4.80	4.43	3.69	2.77	CD10RM0SK
3	BCD	C	CKN1228-ND	6.29	5.82	4.85	3.64	CD10RK1SK
1	Hex.	A	CKN3049-ND	4.68	4.32	3.60	2.70	CD16RM0CK
1	Hex.	B	CKN3050-ND	5.36	4.95	4.13	3.10	CD16RL1CK
1	Hex.	C	CKN1225-ND	6.18	5.71	4.76	3.57	CD16RK1CK
2	Hex.	A	CKN3051-ND	5.55	5.12	4.27	3.20	CD16RM0AK
2	Hex.	B	CKN3052-ND	6.15	5.69	4.74	3.56	CD16RL1AK
2	Hex.	C	CKN1227-ND	6.97	6.44	5.37	4.03	CD16RK1AK
3	Hex.	A	CKN3053-ND	5.29	4.89	4.07	3.06	CD16RM0SK
3	Hex.	C	CKN1229-ND	6.79	6.27	5.22	3.92	CD16RK1SK

OMRON

Rotary DIP Switches

LIFE EXPECTANCY: • **Mechanical** – 10,000 operations min. • **Electrical** – 2,000 operations min. • **Contact Resistance** – 200mΩ.

BCD Output Codes

BCD Type

Pos-ition	Terminal No. 1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●

Note: "●" in the tables show the output terminal No. that can be connected to the common terminal.

Hexadecimal Type

Pos-ition	Terminal No. 1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●
A		●		●
B	●	●		●
C			●	●
D	●		●	●
E		●	●	●
F	●	●	●	●

Fig. 1

Bottom View

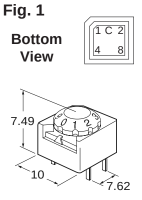


Fig. 2

Bottom View

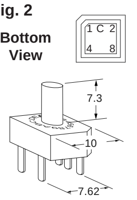


Fig. 3

Bottom View

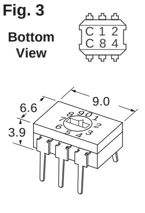


Fig. 4

Top View

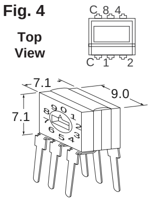
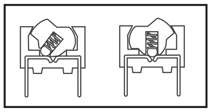


Fig.	No. of Pos.	Output Code Type	Switching Capacity mA	VDC	Operating Temp.	Digi-Key Part No.	Price Each 1	25	50	100	250	Omron Part No.
1	10	BCD	100	28	-10° to 70°C	SW220-ND	3.75	3.38	3.00	2.70	2.55	A6A-10R
1	16	Hexdec.	100	28	-10° to 70°C	SW221-ND	3.88	3.49	3.10	2.79	2.64	A6A-16R
2	10	BCD	100	28	-10° to 70°C	SW214-ND	4.13	3.72	3.30	2.97	2.81	A6A-10RS
2	16	Hexdec.	100	28	-10° to 70°C	SW215-ND	4.38	3.94	3.50	3.15	2.98	A6A-16RS
2	10	BCD	100	28	-10° to 70°C	SW222-ND	4.50	4.05	3.60	3.24	3.06	A6A-10RW
2	16	Hexdec.	100	28	-10° to 70°C	SW223-ND	4.63	4.17	3.70	3.33	3.15	A6A-16RW
3	10	BCD	100	30	-20° to 70°C	SW216-ND	2.88	2.59	2.30	2.07	1.96	A6C-10R(N)
3	16	Hexdec.	100	30	-20° to70°C	SW217-ND	3.00	2.70	2.40	2.16	2.04	A6C-16R(N)
4	10	BCD	100	30	-20° to 70°C	SW218-ND	3.88	3.49	3.10	2.79	2.64	A6CV-10R
4	16	Hexdec.	100	30	-20° to 70°C	SW219-ND	4.13	3.72	3.30	2.97	2.81	A6CV-16R

DIP Switches



Grayhill's unique spring and ball contact design offers unparalleled reliability compared to conventional wiping contact designs. When actuated the ball rests between two contacts allowing multiple points of contact while the spring compression is at maximum pressure. Temperature, humidity and vibration have minimal affect on this design.

Specifications: • **Mechanical Life per switch position:** 76/78 – 20,000; 90B – 5,000 • **Contact Resistance:** Initially ≤ 30 mΩ • **Insulation Resistance:** 5,000 • **Dielectric Strength:** 750V • **Current Carry:** 3A • **Switch Capacitance:** 2pF • **Operating Temperature:** -40°C to +85°C • **SMT Processing Temperature (90HBW, 90HBJ):** 260°C Max.

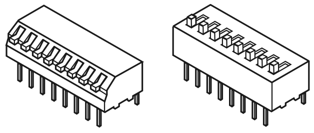


Fig. 1 – Series 76 Rocker and Recessed Rocker

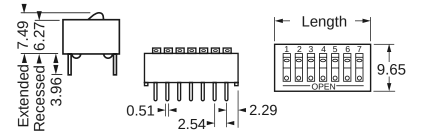


Fig. 3 – Series 78

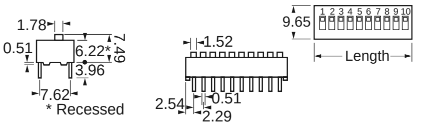


Fig. 5 – Series 90HBW, 90HBJ

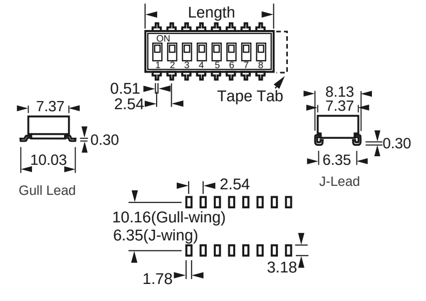


Fig. 2 – Series 76 Piano DIP

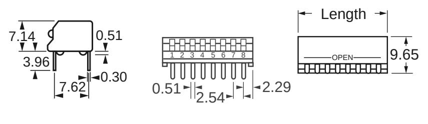


Fig. 4 – Series 90

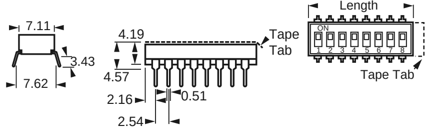


Fig. 6 – Series 76HP SMT Piano DIP

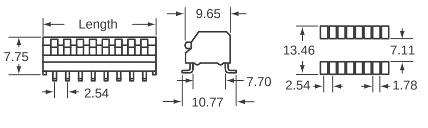


Fig. 7 – Series 97C Half Pitch

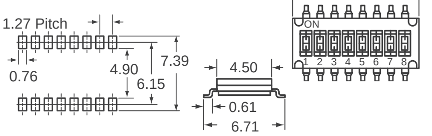


Fig. 8 – Series 97R Half Pitch

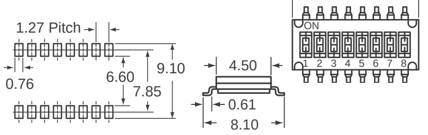


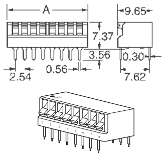
Fig.	No. of Pos.	Length (mm)	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
Raise Rocker Unsealed							
1	2	7.11	GH1102-ND	.92	.85	.77	76SB02
	3	9.65	GH1103-ND	.92	.85	.77	76SB03
	4	12.19	GH1104-ND	.92	.85	.77	76SB04
	5	14.73	GH1105-ND	1.38	1.27	1.15	76SB05
	6	17.27	GH1106-ND	1.35	1.24	1.13	76SB06
	7	19.81	GH1107-ND	1.43	1.32	1.20	76SB07
	8	22.35	GH1109-ND	1.43	1.32	1.20	76SB08
	9	24.89	GH1110-ND	1.43	1.32	1.20	76SB09
	10	27.43	GH1112-ND	1.51	1.39	1.26	76SB10
	12	32.51	GH1202-ND	1.62	1.49	1.35	76SB12
Raise Rocker Sealed							
1	2	7.11	GH1002-ND	1.05	.97	.88	76SB02S
	3	9.65	GH1003-ND	1.05	.97	.88	76SB03S
	4	12.19	GH1004-ND	1.05	.97	.88	76SB04S
	5	14.73	GH1005-ND	1.46	1.34	1.22	76SB05S
	6	17.27	GH1006-ND	1.49	1.37	1.24	76SB06S
	7	19.81	GH1007-ND	1.51	1.39	1.26	76SB07S
	8	22.35	GH1008-ND	1.46	1.34	1.22	76SB08S
	9	24.89	GH1009-ND	1.59	1.46	1.33	76SB09S
	10	27.43	GH1010-ND	1.62	1.49	1.35	76SB10S
	12	32.51	GH1012-ND	1.70	1.56	1.42	76SB12S
Recessed Rocker Unsealed							
1	2	7.11	GH1272-ND	1.24	1.14	1.04	76RSB02
	3	9.65	GH1273-ND	1.30	1.19	1.08	76RSB03
	4	12.19	GH1274-ND	1.35	1.24	1.13	76RSB04
	5	14.73	GH1275-ND	1.43	1.32	1.20	76RSB05
	6	17.27	GH1276-ND	1.46	1.34	1.22	76RSB06
	7	19.81	GH1277-ND	1.46	1.34	1.22	76RSB07
	8	22.35	GH1278-ND	1.49	1.37	1.24	76RSB08
	9	24.89	GH1279-ND	1.57	1.44	1.31	76RSB09
	10	27.43	GH1280-ND	1.57	1.44	1.31	76RSB10
	12	32.51	GH1281-ND	1.62	1.49	1.35	76RSB12
Recessed Rocker Sealed							
1	2	7.11	GH1262-ND	1.27	1.17	1.06	76RSB02S
	3	9.65	GH1263-ND	1.32	1.22	1.11	76RSB03S
	4	12.19	GH1264-ND	1.38	1.27	1.15	76RSB04S
	5	14.73	GH1265-ND	1.46	1.34	1.22	76RSB05S
	6	17.27	GH1266-ND	1.49	1.37	1.24	76RSB06S
	7	19.81	GH1267-ND	1.49	1.37	1.24	76RSB07S
	8	22.35	GH1268-ND	1.51	1.39	1.26	76RSB08S
	9	24.89	GH1269-ND	1.59	1.46	1.33	76RSB09S
	10	27.43	GH1270-ND	1.59	1.46	1.33	76RSB10S
	12	32.51	GH1271-ND	1.65	1.51	1.38	76RSB12S
PIANO DIP® Unsealed							
2	2	7.11	GH1213-ND	1.30	1.19	1.08	76PSB02
	3	9.65	GH1214-ND	1.32	1.22	1.11	76PSB03
	4	12.19	GH1215-ND	1.08	.99	.90	76PSB04
	5	14.73	GH1216-ND	1.38	1.27	1.15	76PSB05
	6	17.27	GH1217-ND	1.22	1.12	1.02	76PSB06
	7	19.81	GH1218-ND	1.38	1.27	1.15	76PSB07
	8	22.35	GH1219-ND	1.27	1.17	1.06	76PSB08
	9	24.89	GH1220-ND	1.54	1.42	1.29	76PSB09
	10	27.43	GH1221-ND	1.30	1.19	1.08	76PSB10
	12	32.51	GH1222-ND	1.89	1.74	1.58	76PSB12

Fig.	No. of Pos.	Length (mm)	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
PIANO DIP® Sealed							
2	2	7.11	GH1203-ND	1.40	1.29	1.17	76PSB02S
	3	9.65	GH1204-ND	1.43	1.32	1.20	76PSB03S
	4	12.19	GH1205-ND	1.16	1.07	.97	76PSB04S
	5	14.73	GH1206-ND	1.46	1.34	1.22	76PSB05S
	6	17.27	GH1207-ND	1.32	1.22	1.11	76PSB06S
	7	19.81	GH1208-ND	1.59	1.46	1.33	76PSB07S
	8	22.35	GH1209-ND	1.40	1.29	1.17	76PSB08S
	9	24.89	GH1210-ND	1.70	1.56	1.42	76PSB09S
	10	27.43	GH1211-ND	1.49	1.37	1.24	76PSB10S
	12	32.51	GH1212-ND	1.97	1.81	1.65	76PSB12S
Raised Slide Switch, Unsealed							
3	2	7.11	GH1233-ND	1.05	.97	.88	78B02
	3	9.65	GH1234-ND	1.05	.97	.88	78B03
	4	12.19	GH1235-ND	.89	.82	.75	78B04
	5	14.73	GH1236-ND	1.08	.99	.90	78B05
	6	17.27	GH1237-ND	1.08	.99	.90	78B06
	7	19.81	GH1238-ND	1.08	.99	.90	78B07
	8	22.35	GH1239-ND	1.00	.92	.84	78B08
	9	24.89	GH1240-ND	1.03	.95	.86	78B09
	10	27.43	GH1241-ND	1.05	.97	.88	78B10
	12	32.51	GH1242-ND	1.24	1.14	1.04	78B12
Raised Slide Switch, Sealed							
3	2	7.11	GH1223-ND	1.05	.97	.88	78B02S
	3	9.65	GH1224-ND	1.05	.97	.88	78B03S
	4	12.19	GH1225-ND	.95	.87	.79	78B04S
	5	14.73	GH1226-ND	1.30	1.19	1.08	78B05S
	6	17.27	GH1227-ND	1.24	1.14	1.04	78B06S
	7	19.81	GH1228-ND	1.27	1.17	1.06	78B07S
	8	22.35	GH1229-ND	1.05	.97	.88	78B08S
	9	24.89	GH1230-ND	1.13	1.04	.95	78B09S
	10	27.43	GH1231-ND	1.24	1.14	1.04	78B10S
	12	32.51	GH1232-ND	1.46	1.34	1.22	78B12S
Recessed Slide Switch, Unsealed							
3	2	7.11	GH1252-ND	1.05	.97	.88	78RB02
	3	9.65	GH1253-ND	1.05	.97	.88	78RB03
	4	12.19	GH1254-ND	.89	.82	.75	78RB04
	5	14.73	GH1255-ND	1.08	.99	.90	78RB05
	6	17.27	GH1256-ND	1.08	.99	.90	78RB06
	7	19.81	GH1257-ND	1.08	.99	.90	78RB07
	8	22.35	GH1258-ND	1.00	.92	.84	78RB08
	9	24.89	GH1259-ND	1.03	.95	.86	78RB09
	10	27.43	GH1260-ND	1.05	.97	.88	78RB10
	12	32.51	GH1261-ND	1.24	1.14	1.04	78RB12
Recessed Slide Switch, Sealed							
3	2	7.11	GH1243-ND	1.05	.97	.88	78RB02S
	3	9.65	GH1244-ND	1.05	.97	.88	78RB03S
	4	12.19	GH1245-ND	.95	.87	.79	78RB04S
	5	14.73	GH1246-ND	1.30	1.19	1.08	78RB05S
	6	17.27	GH1247-ND	1.24	1.14	1.04	78RB06S
	7	19.81	GH1248-ND	1.27	1.17	1.06	78RB07S
	8	22.35	GH1249-ND	1.05	.97	.88	78RB08S
	9	24.89	GH1250-ND	1.13	1.04	.95	78RB09S
	10	27.43	GH1251-ND	1.24	1.14	1.04	78RB10S

Fig.	No. of Pos.	Length (mm)	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
Auto-Insertable Auto DIP Sealed							
4	2	6.86	GH1282-ND	.76	.70	.63	90B02S
	3	9.40	GH1283-ND	.84	.77	.70	90B03S
	4	11.94	GH1284-ND	.95	.87	.79	90B04S
	5	14.48	GH1285-ND	1.00	.92	.84	90B05S
	6	17.02	GH1286-ND	1.19	1.09	.99	90B06S
	7	19.56	GH1287-ND	1.24	1.14	1.04	90B07S
	8	22.10	GH1288-ND	1.16	1.07	.97	90B08S
	9	24.64	GH1289-ND	1.46	1.34	1.22	90B09S
	10	27.18	GH1290-ND	1.57	1.44	1.31	90B10S
SMT Gull Lead Sealed							
5	2	6.86	GH1291-ND	.86	.80	.72	90HBW02P
	3	9.40	GH1292-ND	.89	.82	.75	90HBW03P
	4	11.94	GH1293-ND	1.00	.92	.84	90HBW04P
	5	14.48	GH1294-ND	1.11	1.02	.93	90HBW05P
	6	17.02	GH1295-ND	1.16	1.07	.97	90HBW06P
	7	19.56	GH1296-ND	1.27	1.17	1.06	90HBW07P
	8	22.10	GH1297-ND	1.19	1.09	.99	90HBW08P
	9	24.64	GH1298-ND	1.49	1.37	1.24	90HBW09P
	10	27.18	GH1299-ND	1.51	1.39	1.26	90HBW10P
SMT J-Lead Sealed							
5	2	6.86	GH1300-ND	1.59	1.46	1.33	90HBJ02P
	3	9.40	GH1301-ND	1.65	1.51	1.38	90HBJ03P
	4	11.94	GH1302-ND	1.40	1.29	1.17	90HBJ04P
	5	14.48	GH1303-ND	1.59	1.46	1.33	90HBJ05P
	6	17.02	GH1304-ND	1.65	1.51	1.38	90HBJ06P
	7	19.56	GH1305-ND	1.67	1.54	1.40	90HBJ07P
	8	22.10	GH1306-ND	1.38	1.27	1.15	90HBJ08P
	9	24.64	GH1307-ND	1.73	1.59	1.44	90HBJ09P
	10	27.18	GH1308-ND	1.59	1.46	1.33	90HBJ10P
Series 76HP PIANO DIP®							
6	2	7.1	GH1325CT-ND	3.94	2.76	1.82	76HPSB02GWR
	2	7.1	GH1325TR-ND		792.75/500		76HPSB02GWR
	4	12.2	GH1326CT-ND	4.06	2.85	1.87	76HPSB04GWR
	4	12.2	GH1326TR-ND		817.25/500		76HPSB04GWR
	6	17.3	GH1327CT-ND	4.29	3.01	1.98	76HPSB06GWR
	6	17.3	GH1327TR-ND		863.63/500		76HPSB06GWR
	8	22.4	GH1328CT-ND	4.59	3.22	2.12	76HPSB08GWR
	8	22.4	GH1328TR-ND		924.00/500		76HPSB08GWR
	10	27.4	GH1329CT-ND	5.00	3.50	2.30	76HPSB10GWR
	10	27.4	GH1329TR-ND		1006.25/500		76HPSB10GWR
Series 97 Half Pitch							
7	2	3.76	GH1330-ND	4.29	3.01	1.98	97C02S
	4	6.30	GH1331-ND	4.41	3.09	2.03	97C04S
	8	11.38	GH1332-ND	4.65	3.26	2.14	97C08S
	10	13.92	GH1333-ND	5.00	3.50	2.30	97C10S
8	2	3.76	GH1334-ND	4.29	3.01	1.98	97R02S
	4	6.30	GH1335-ND	4.41	3.09	2.03	97R04S
	8	11.38	GH1336-ND	4.65	3.26	2.14	97R08S
Hand Tool							
Hand Tool for Dip Switch			GH1343-ND	1.00	—	.46	90-DIPSTICK

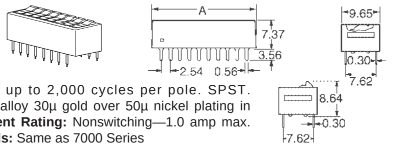
DIP Switches

Fig. 1 – Side Actuated



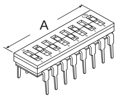
Max. Cycle Life: up to 7,000 cycles per pole. SPST. **Contacts:** Beryllium copper with 30µ gold over 50µ nickel plating in contact area. **Materials: Housing:** Glass-filled polyester, 94V-0 rated, black. **Rocker:** Thermoplastic, 94V-0 rated, white. **Current Rating:** Nonswitching —1.5 amp max. at 50 VDC.

Fig. 2 – Top Actuated



Max. Cycle Life: up to 2,000 cycles per pole. SPST. **Contacts:** Copper alloy 30µ gold over 50µ nickel plating in contact area. **Current Rating:** Nonswitching—1.0 amp max. at 40 VDC. **Materials:** Same as 7000 Series

Fig. 3 – Dip Shunts



Materials: Housing: Glass-filled thermoplastic, 94V-0 rated. **Current Rating:** Standard pressure - 2 amp. **Resistance to Soldering Heat:** Cut straps can be reconnected by soldering bridging.

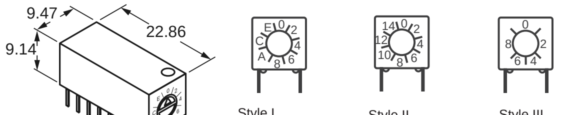
Fig.	No. of Cir.	Dim. A (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	10	
7000 Series – SPST, Side Actuated, Unsealed						
1	2	7.11	A5002-ND	7.23	6.63	1-435802-0
	3	9.65	A5003-ND	8.64	7.92	435802-2
	4	12.19	A5004-ND	1.26	1.16	435802-3
	5	14.73	A5005-ND	2.64	2.42	435802-4
	6	17.27	A5006-ND	2.94	2.70	435802-5
	7	19.81	A5007-ND	3.12	2.86	435802-6
	8	22.35	A5008-ND	3.24	3.14	435802-1
	9	24.89	A5009-ND	3.75	3.44	435802-7
	10	27.43	A5010-ND	3.75	3.44	435802-8
7000 Series – SPST, Side Actuated, Plastisol Sealed						
1	4	12.19	A5104-ND	1.41	1.30	1-435802-5
	5	14.73	A5105-ND	2.16	1.98	1-435802-6
	6	17.27	A5106-ND	2.37	2.18	1-435802-7
	7	19.81	A5107-ND	2.52	2.31	1-435802-8
	8	22.35	A5108-ND	2.58	2.37	435802-9
	9	24.89	A5109-ND	2.97	2.73	1-435802-9
	10	27.43	A5110-ND	2.97	2.73	2-435802-0
	12	32.51	A5112-ND	3.33	3.06	2-435802-2

Fig.	No. of Cir.	Dim. A (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	10	
7100 Series – SPST, Standard Profile, Unsealed						
2	2	7.11	A5202-ND	3.72	3.41	2-435640-9
	3	9.65	A5203-ND	3.84	3.52	3-435640-0
	4	12.19	A5204-ND	.93	.91	435640-2
	5	14.73	A5205-ND	1.59	1.46	435640-3
	6	17.27	A5206-ND	1.74	1.60	435640-4
	7	19.81	A5207-ND	1.95	1.79	435640-1
	8	22.35	A5208-ND	1.89	1.74	435640-5
	9	24.89	A5209-ND	2.25	2.07	435640-6
	10	27.43	A5210-ND	2.37	2.18	435640-7
	12	32.51	A5212-ND	3.06	2.81	3-435640-2
7100 Series – SPST, Standard Profile, Plastisol Sealed						
2	4	12.19	A5304-ND	1.20	1.10	3-435640-5
	5	14.73	A5305-ND	1.80	1.65	3-435640-6
	6	17.27	A5306-ND	1.95	1.79	3-435640-7
	7	19.81	A5307-ND	2.16	1.98	3-435640-8
	8	22.35	A5308-ND	2.16	2.10	3-435640-9
	9	24.89	A5309-ND	2.46	2.26	4-435640-0
	10	27.43	A5310-ND	2.58	2.37	4-435640-1

Fig.	No. of Cir.	Dim. A (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	10	
7100 Series – SPST, Low Profile, Unsealed						
2	4	12.19	A5404-ND	.93	.86	435668-3
	5	14.73	A5405-ND	1.59	1.46	435668-4
	6	17.27	A5406-ND	1.74	1.60	435668-5
	8	22.35	A5408-ND	1.89	1.74	435668-7
	10	27.43	A5410-ND	2.37	2.18	435668-9
7100 Series – SPST, Low Profile, Tape Sealed						
2	4	12.19	A5504-ND	1.23	1.13	3-435668-4
	5	14.73	A5505-ND	2.04	1.87	3-435668-5
	6	17.27	A5506-ND	2.16	1.98	2-435668-5
	7	19.81	A5507-ND	2.37	2.18	2-435668-7
	8	22.35	A5508-ND	2.34	2.15	2-435668-8
	9	24.89	A5509-ND	2.67	2.45	2-435668-9
	10	27.43	A5510-ND	2.01	1.85	3-435668-0
7600 Series – Dip Shunt, Std Pressure						
3	4	10.16	A26235-ND	.84	.77	435704-4
	6	15.24	A26236-ND	1.23	1.13	435704-6
	7	17.78	A26237-ND	1.26	1.16	435704-7
	8	20.32	A26238-ND	1.14	1.05	435704-8
	10	25.40	A26239-ND	1.44	1.32	1-435704-0
	12	30.48	A26240-ND	1.53	1.41	1-435704-2
Prog. Hand Tool			A5800-ND	135.23	—	435862-1

DIP Switches — Preprogrammed

Material:
Glass-filled polyester, 94V-0 rated, black. **Contact:** Copper alloy with gold over nickel plating. **Voltage Rating:** 120V ms max. **Current Rating:** 1 amp max. **Contact Resistance:** 750 milliohms max. at 50mV open circuit. **Life Expectancy:** 500 revolutions **Actuator:** Screwdriver slot.



Style I
16 Position

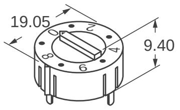
Style II
16 Position

Style III
10 Position

Switch Type	Tape Seal	Stamping Legend	Digi-Key Part No.	Price Each		AMP Part No.
				1	10	
Hexadecimal w/Complement	No	Style I	A26219-ND	18.93	17.36	53137-5
Hexadecimal w/Complement	Yes	Style I	A26221-ND	18.48	16.94	54792-1
Hexadecimal w/Complement	No	Style II	A26220-ND	18.93	17.36	53137-6
Hexadecimal w/Complement	Yes	Style II	A26222-ND	18.48	16.94	54792-2
BCD w/Complement	No	Style III	A26223-ND	17.64	16.17	53919-2
BCD w/Complement	Yes	Style III	A26224-ND	18.06	16.56	54778-1

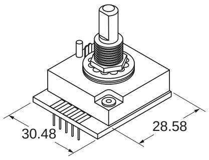
Rotary Switches

Fig. 1



Materials: Contacts: phosphor bronze, gold over nickel plated. **Dielectric Breakdown Volt:** 500 VDC min. **Insulation Res:** $1x10^8$ ohms. **Initial Contact Res.:** 25 milliohms. **Circuit Cap.:** 5 picofarads (at 100 KHz). **Durability:** 1000 cycles

Fig. 2



Material:
Housing:
Polyester, black.
Detent Ball and Spring: Stainless steel. **Printed Circuit Board:** Flame retardant, glass epoxy laminate, copper clad. **Contacts:** Phosphor bronze, gold over nickel. **Current Rating:** Nonswitching—2.0 amp at 115 VAC max. **Contact Life Expectancy:** 25,000 rotations.

Fig.	Description	No. of Pos.	Output Code Type	Digi-Key Part No.	Price Each		AMP Part No.
					1	10	
6000 Series Rotary Switch							
1	Screwdriver/ Coin Actuated	10	Single Pole	A26200-ND	21.87	20.05	1-435097-1
	Bar-Type Knob	10	BCD	A26201-ND	24.84	22.77	435123-1
	Bar-Type Knob	16	Hexadecimal	A26202-ND	24.87	22.80	1-435167-1
3100 Series Rotary Switch							
2	Right Angle	10	36 deg Throw BCD	A26203-ND	75.00	68.75	435984-7

Grayhill Rotary DIP Switches

Specifications:

- **Mechanical Life:** 10,000 cycles
- **Make and Break Current Rating:** 30 mA at 30 Vdc for 10,000 cycles of operation
- **Carrying Current Rating:** 100mA at 50 Vdc
- **Contact Resistance:** 50 milliohms maximum
- **Operating Temperature Range:** -25°C to +85°C

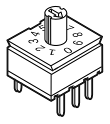
Materials and Finishes:

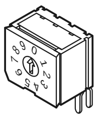
- **Rotor and Switch Body:** Plastic, rated at UL 94V-0
- **Contact Material:** Copper alloy gold over 30 microinches nickel
- **Terminals:** Copper alloy plated 150 microinches tin lead solder over nickel
- **Internal O-ring:** Silicon rubber

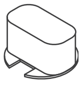
Flux Cleaning:

- Acceptable cleaning solutions include 1-1-1 Trichlorethane, Freon (TF, TE, or TMS), Isopropyl Alcohol, and detergent (140°F (60°C) maximum). Solutions which are not recommended include Acetone, Methylene Chloride, and Freon TMC.

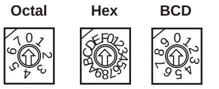
*All Grayhill Dip Switches are shipped in tubes.


Perp./Extended


Rt. Angle/Flush


Knob for Extended Actuators

Switch Markings



Code & Positions	Type of Mounting	Type of Actuator	Digi-Key Part No.	Price Each			Grayhill Part No.
				1	10	100	
Rotary Switches							
Octal	SMT	Flush	GH1309-ND	3.02	2.78	2.52	94HAB08W
Octal	Perp.	Flush	GH1310-ND	3.02	2.78	2.52	94HAB08
Octal	Perp.	Extended	GH1311-ND	3.02	2.78	2.52	94HBB08
Octal	Rt. Ang.	Flush	GH1312-ND	3.38	3.10	2.82	94HAB08RA
Octal	Rt. Ang.	Extended	GH1313-ND	3.38	3.10	2.82	94HBB08RA
BCD	SMT	Flush	GH1314-ND	3.02	2.78	2.52	94HAB10W
BCD	Perp.	Flush	GH1315-ND	3.02	2.78	2.52	94HAB10
BCD	Perp.	Extended	GH1316-ND	3.02	2.78	2.52	94HBB10
BCD	Rt. Ang.	Flush	GH1317-ND	3.38	3.10	2.82	94HAB10RA
BCD	Rt. Ang.	Extended	GH1318-ND	3.38	3.10	2.82	94HBB10RA
HEX	SMT	Flush	GH1319-ND	3.02	2.78	2.52	94HAB16W
HEX	Perp.	Flush	GH1320-ND	3.02	2.78	2.52	94HAB16
HEX	Perp.	Extended	GH1321-ND	3.02	2.78	2.52	94HBB16
HEX	Rt. Ang.	Flush	GH1322-ND	3.38	3.10	2.82	94HAB16RA
HEX	Rt. Ang.	Extended	GH1323-ND	3.38	3.10	2.82	94HBB16RA
Knobs for Extended Actuators Only							
Black Knob, open window type			GH5005-ND	.76	—	.54	947705-001
Gray Knob, open window type			GH5006-ND	.76	—	.54	947705-012
Gray Knob, black arrowhead			GH5007-ND	.76	—	.54	947705-017

Grayhill Optical Rotary Encoders

Series 61C

Features: • Competitively priced to similar electromechanical switches • Optically coupled for more than a million trouble-free operations • Has data entry pushbutton switch activated by switch shaft • Compatible with CMOS, TTL and HCMOS Logic • Operationally used to move display icon and input data • Used to set radio frequency, drill depth, RPM, etc. Plastic shaft and bushing.

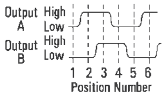
Dimensions: • **Shaft:** .250" (6.35mm) dia., .375" (9.52mm) long • **Pin Spacing:** .1" x .025" (2.54mm x .64mm) diameter • **Thread:** 3/8 – 32 • **Overall Diameter:** .750" (19.05mm)

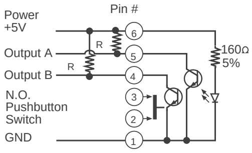
Encoder Ratings: • **Operating Voltage:** 5 ±.25 VDC • **Supply Current:** 30ma max. at 5VDC • **Life:** 1 million cycles of operation, 1 cycle is rotation through all positions and a full return • **Rotational Torque:** 1.5 inch-ounces ± 30% • **Load Current:** 5mA max. per channel • **Turn-On Time:** ≤30 mSec at 16.6 RPM • **Turn-Off Time:** ≤30 mSec at 16.6 RPM

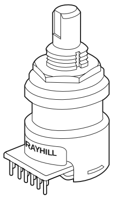
Pushbutton Switch Ratings: • **Rating:** at 5VDC, 10 mA, resistive • **Contact Resistance:** <10Ω • **Life Expectancy:** 3 million operations • **Contact Bounce:** <4 mSec at make <10 mSec at break • **Operating Temperature Range:** -40°C to +70°C.

Clockwise Rotation		
	Output	Output
Position	A	B
1	❍	❍
2	●	❍
3	●	●
4	❍	●

● indicates logic high.
❍ indicates logic low.
Code repeats every 4 positions





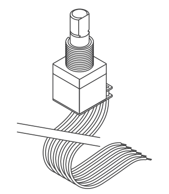


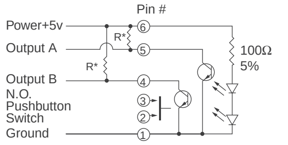
Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
16-Position	GH6101-ND	20.55	16.44	12.33	10.28	61C22-01-04-02
32-Position	GH6102-ND	20.55	16.44	12.33	10.28	61C11-01-08-02

Optical Rotary Encoders Series 62A

These low cost encoders offer long life (over 1 million operations) with small size and optional integrated pushbutton. These encoders are ideal for radio frequency setting, drill depth setting and other applications where detents are desired for operator feedback. Rugged metal shaft and bushing for long life.

Electrical Ratings:
- **Operating Voltage:** 5 ±.25 Vdc
- **Supply Current:** 30mA max. at 5 Vdc.
- **Operating Torque:** 1.5 in-oz ±50in-oz initially
- **Rotational Life:** >1 million cycles of operation (cycle is rotation through all positions and return)





*External pull-up resistors required for operation.
8.2kΩ is suggested for TTL; 3.3kΩ is suggested for CMOS.

Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
32-Position, 2" Cable	GH3046-ND	33.20	26.56	19.92	16.60	62A11-01-020S
32-Position w/Switch 2"	GH3047-ND	36.29	29.03	21.78	18.15	62A11-02-020S
32-Position, 5" Cable	GH3048-ND	33.88	27.11	20.33	16.94	62A11-01-050S
32 Position w/Switch 5"	GH3049-ND	36.99	29.60	22.20	18.50	62A11-02-050S

Industrial Optical Rotary Encoders

Series 61K, 61R, 63R

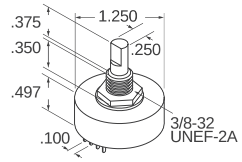
These rugged encoders are designed for continuous operations with high resolution. Made with stainless steel shaft and bushing for exceedingly long life (10 million life cycles). No detents.

Features:

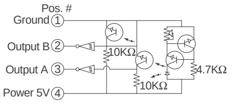
• High resolution • Rugged construction • Cable or pinned version • 10 million life cycles • 300 RPM shaft rotation • 61K is a 4 pin output • 61R is a 5 pin output • 63R is a 5 pin output with 500 million life cycles

Specifications:

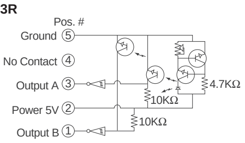
• **Operating Voltage:** 5 ± .25 Vdc • **Supply Current:** 30 mA maximum at 5 Vdc • **Logic Output Characteristics:** Output Type: Open collector with integrated Schmitt Trigger and 10KΩ pull-up resistor. Maximum Sink Current: 16mA at .40 Volts. • **Power Consumption:** 150 mW maximum • **Optical Rise Time:** 500 ns • **Optical Fall Time:** 16 ns • **Mechanical Life:** 10 million revolutions • **Time Life:** Guaranteed for 10 years of continuous operation (calculated from emitter degradation data) • **Operating Temperature Range:** -40°C to 85°C



61K



61R, 63R

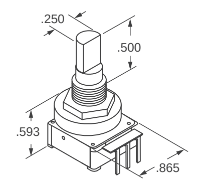


Description	Pulse Per Revolution	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
4 Pin PC Mount	64	GH3064-ND	44.62	35.70	31.24	27.67	61K64
4 Pin PC Mount	128	GH3065-ND	44.62	35.70	31.24	27.67	61K128
5" Cable	128	GH3066-ND	48.52	38.82	33.97	30.09	61K128-050
5 Pin PC Mount	64	GH3067-ND	44.62	35.70	31.24	27.67	61R64
5 Pin PC Mount	128	GH3068-ND	44.62	35.70	31.24	27.67	61R128
5 Pin PC Mount	128	GH3069-ND	49.54	39.64	34.68	30.72	63R128
5 Pin PC Mount	256	GH3070-ND	51.29	41.04	35.91	31.81	63R256

Mechanical Rotary Encoders

Series 25L

The 25L series of encoders are inexpensive single deck mechanical encoders designed for human interface terminals. Has detents.



Features:
- Quality construction and contact materials
- 100,000 life cycles

Specifications:
- **Switching Loads:** 1.5mA @ 115Vac, resistive; 150mA @ 14Vdc , resistive
- **Life Expectancy:** 100,000 cycles of operation @ rated loads; one cycle of operation is a rotation through all of the active positions and a return to the starting position
- **Operating Temperature:** -65°C to +85°C

Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
36 Position, 2 Bit - 3 Pin PC Mount	GH3071-ND	4.70	3.77	2.83	2.35	25LB10-Q
24 Position, 2 Bit - 3 Pin PC Mount	GH3072-ND	4.70	3.77	2.83	2.35	25LB15-Q
16 Position, 2 Bit - 3 Pin PC Mount	GH3073-ND	4.70	3.77	2.83	2.35	25LB22-Q
16 Position, Hex - 5 Pin PC Mount	GH3074-ND	4.70	3.77	2.83	2.35	25LB22-H

Mechanical Rotary Encoders

Series 26

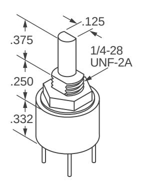
The series 26 rotary encoders are pc mounted mechanical encoders that come complete with a threaded shaft (mounting hardware included) and internal detents for user feedback.

User selectable for either continues rotation or present stops (two supplied).

Fully sealed with panel and shaft seal for use in the harshest environments.

Specifications:

- **Electrical Rating:**
  25,000 cycles with logic compatible loads.
  Make and break 200mA.
- **Detent Balls:**
  Carbon steel, nickel plated
- **Terminals:**
  Brass, gold plated nickel plate; Contacts: Copper alloy, gold plated over nickel plate



Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
8 Position, BCD - 5 Pin PC Mount	GH3075-ND	13.87	11.10	8.32	6.96	26ASD45-01-1-AJS
16 Position, BCD - 5 Pin PC Mount	GH3076-ND	13.87	11.10	8.32	6.96	26ASD22-01-1-AJS
16 Position, Grey Code - 5 Pin PC Mount	GH3077-ND	21.26	17.00	12.75	10.67	26GS22-01-1-16S-C

Code And Truth Table

Switch	Code	BCD Output*				Gray Output*			
Position	Position	1	2	4	8	1	2	4	8
1	0								
2	1	●				●			
3	2		●			●	●		
4	3	●	●				●		
5	4			●			●	●	
6	5	●		●		●	●	●	
7	6		●	●		●		●	
8	7	●	●	●				●	
9	8				●			●	●
10	9	●			●	●		●	●
11	10		●		●	●	●	●	●
12	11	●	●		●		●	●	●
13	12			●	●		●		●
14	13	●		●	●	●	●		●
15	14		●	●	●	●			●
16	15	●	●	●	●				●

*Dot indicates terminal tied to common.

Optical Encoders

- Long life • High resolution • Metal shaft • Digital output

Fig. 1 Vertical

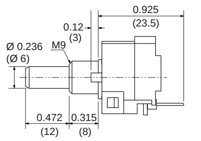
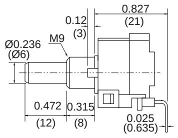


Fig. 2 Right Angle



Power: 5VDC @ 50mA **Life:** 2.5 million cycles min.
Cycles/Rev.: 50/75/100/128/200 **Output:** TTL compatible

All models are quadrature (dual channel), rugged and may be panel or pc board mounted.

Maximum 300 RPM for integral applications; 1kHz max frequency response.

Shaft turning clockwise viewed from front

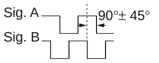


Fig.	CPR	Digi-Key Part No.	Price Each 1	10	Iwatsu Part No.
1	50	102-1001-ND	39.85	27.90	EC202A050A-2TD
2	50	102-1002-ND	39.85	27.90	EC202A050A-2SD
1	75	102-1003-ND	39.85	27.90	EC202A075A-2TD
2	75	102-1004-ND	39.85	27.90	EC202A075A-2SD
1	100	102-1005-ND	39.85	27.90	EC202A100A-2TD
2	100	102-1006-ND	39.85	27.90	EC202A100A-2SD
1	128	102-1007-ND	39.85	27.90	EC202A128A-2TD
2	128	102-1008-ND	39.85	27.90	EC202A128A-2SD
1	200	102-1009-ND	59.85	49.95	EC202C200A-2TD
2	200	102-1010-ND	59.85	49.95	EC202C200A-2SD

Optical Encoders

- Smallest in the world
- Lowest current draw
- Extremely economical

Fig. 1

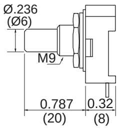


Fig. 2

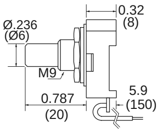


Fig. 3

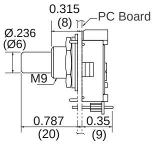


Fig. 4

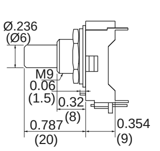


Fig. 5

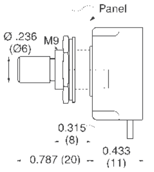


Fig. 6

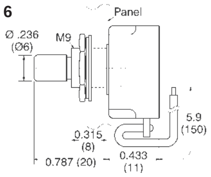
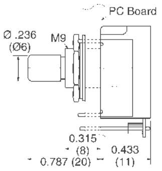


Fig. 7



Power: 5VDC @ 8mA **Life:** 1.0 million cycles min. **Cycles/Rev.:** 25 **Output:** TTL compatible
Body Size: .709"x.965" (18.01mmx24.51mm)

Fig.	CPR	Detent	Digi-Key Part No.	Price Each 1	10	Tosoku Part No.
1	25	N	102-1015-ND	30.00	21.00	RE20NS2520RA
1	25	Y	102-1016-ND	30.00	21.00	RE20NS25C20RA
2	25	N	102-1011-ND	34.15	23.90	RE20NC2520RA
2	25	Y	102-1012-ND	34.15	23.90	RE20NC25C20RA
3	25	N	102-1013-ND	30.00	21.00	RE20NF2520RA
3	25	Y	102-1014-ND	30.00	21.00	RE20NF25C20RA
4	25	N	102-1017-ND	30.00	21.00	RE20NV2520RA
4	25	Y	102-1018-ND	30.00	21.00	RE20NV25C20RA
5	25	Y	102-1021-ND	42.30	38.55	RE21NS25C20R
6	25	Y	102-1019-ND	48.10	43.80	RE21NC25C20R
7	25	Y	102-1020-ND	42.30	38.55	RE21NF25C20R

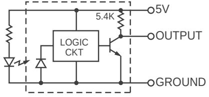
Optical Rotary Encoders

Series: 600, 601H, 601V

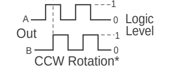
Electrical Specifications: Description: The Series 600 and 601 controls are manually operated, rotary, optical encoders that output two square waves in quadrature at a rate of 128 pulses per channel per revolution as a standard with other resolutions down to 60 pulses available. The outputs are TTL compatible. The variation by series is the terminal configuration, with the Model 600 having (4) cable leads, and the Model 601 having (4) pin leads and internal resistors. **Input Power:** 4 volts DC ±5% @ 30 MA maximum plus external requirements. **Output Rate:** 128 pulses/revolution per channel-standard. **Channels:** Two separate output channels in quadrature. 90° ±45°. **Output Voltage:** High level voltage: 2.4 volts min. with 10KΩ load to ground. Low level voltage: .4 volt maximum

Environmental Characteristics: Operating Temp.: -20°C to 65°C. **Mechanical Characteristics: Shaft Rotation:** Continuous in either direction, 300 RPM max. **Terminals: P/C Type:** .025" (.64mm) by 0.12" (3.05mm) thick brass, gold plated to facilitate soldering. **Cable Type:** Four lead ribbon cable, color-coded, with .050" (1.27mm) spacing. 28 AWG stranded copper wire, .039" (.99mm) diameter. **Strength:** Terminals withstand 2 lb. push and pull and a 90° bend.

Block Diagram
One Channel Output

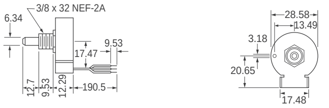


Output Waveform

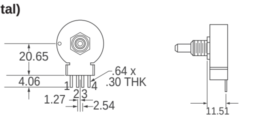


CABLE CODE		
Term#	**Color**	**Function**
1	Red	5VDC ±5% @ 30 MA max.
2	Yellow	A Out
3	Green	Ground
4	Orange	B Out

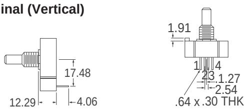
Model 600 - Cable Style



Model 601 - PC Terminal (Horizontal)



Model 601 - PC Terminal (Vertical)



Description	Digi-Key Part No.	Price Each	Clarostat Part No.
Cable Version	600CS-ND	46.14	600EN-128-CBL
Horizontal Version	601HCS-ND	45.51	600EN-128-B66
Vertical PC Version	601VCS-ND	45.09	600EN-128-C24

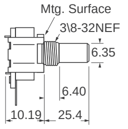
Mechanical Rotary Encoders

Series 288

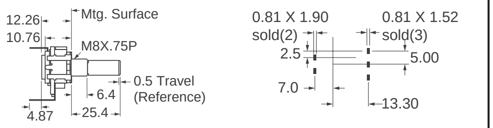
Features: Miniature 16mm style. Low cost. Metal shaft. **Specifications:** • **Power Rating:** .1W • **Operating Temp.:** -25°C to 100°C • **Rotational Life:** 10K cycles • **Contact Resistance:** 5000Ω static closed circuit maximum and 1 MΩ open circuit maximum • Continuous rotation

Fig. 1 - Binary Switching Codes

1A



1B – Vertical Mount with Switch



1C – Horizontal Mount with Switch

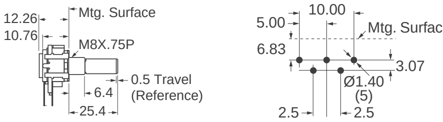


Fig. 2 - Gray Switching Code

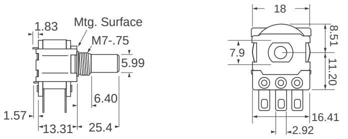


Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1A	2 Bit Non-Detented 16 Position	CT3001-ND	2.58	2.40	2.00	1.80	288T232R161A1
1A	2 Bit Detented 16 Position	CT3002-ND	2.58	2.40	2.00	1.80	288T232R161A2
1B	2 Bit Binary w/Switch, Vertical, 16 Pos.	CT2999-ND	5.42	5.04	4.19	3.78	288V232R161B2
1C	2 Bit Binary w/Switch, Horizontal, 16 Pos.	CT3000-ND	5.42	5.04	4.19	3.78	288X232R161B2
2	4 Bit Non-Detented 16 Position	CT3003-ND	3.50	3.26	2.71	2.45	288T232R162A1

Panasonic® Mechanical Rotary Encoders

EVQ-VEM Series:

Specifications: Mechanical:

• Rotation Angle: 360° (endless) • Detent Points: 24 (each detent angle: 15 ±3°) **Electrical:** • Output Signal: A, B 2 signal. 24 Pulse/360° (phase difference) • Switch Rating: DC 10V - 1mA (each bit) • ON Resistance Between Terminal: 1Ω max. • Insulation Resistance: at DC 50V, 10MΩ min. (between terminals at detent position) • Chattering: 5ms max. Rotation Speed: 60 r/min. Measurement circuit: See diagram • Detent Position: Output Signal “A” OFF and Output SIgnal “B” Off or On. **Physical, Environment Life:** • Temperature Range: -10°C to +70°C • Soldering Temperature: 300°C 3 sec~max. • Rotation Life: 50,000

EVEG/J/L/H Series:

Specifications: Mechanical:

• Rotation Angle: 360° (endless) • Shaft Inclination: 0.7 x H/30 mm p-p max. • Detent Points: 24 • Rotation Torque: standard type, 3mN-m to 20mN-m **Electrical:** • Output Signals: Phase A and B • Resolution: 24 pulses/360° • Rating: DC 5V 1mA • Contact Resistance: 1Ω max. • Insulation Resistance: DC 50V 10MΩ min. • Dielectric Withstanding Voltage: 1 minute at 50VAC • Bouncing: 3 ms max. **Physical, Environment Life:** • Operating Life: standard life, 30,000 cycles min. • Operating Temperature: -10°C to +70°C • Storage Temperature: -40°C to +85°C

Fig.	Description	Dim. C	Dim. D	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Panasonic Part No.
1	14 MM	17.5	12	P80695-ND	3.53	2.95	2.48	EVQ-VEMF0224B
	14 MM	22.5	12	P80705-ND	3.53	2.95	2.48	EVQ-VEMF0324B
2	12 MM	17.5	—	P10859-ND	1.52	1.35	.97	EVE-GA1F1724B
	12 MM	20	—	P10860-ND	1.52	1.35	.97	EVE-GA1F2024B

Fig. 1— EVQ-VEM Series

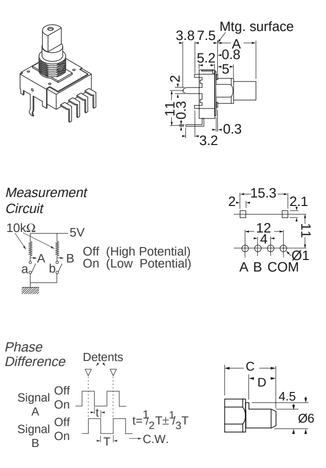
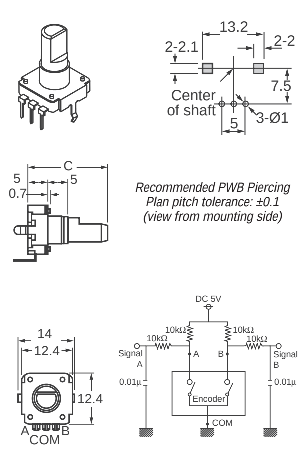
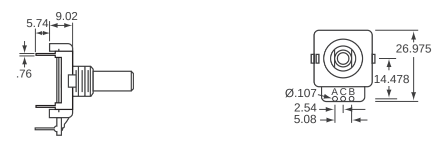


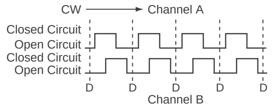
Fig. 2 — EVEG/J/L/H Series



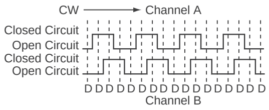
BOURNS Digital Contacting Encoders



Full Cycle Per Detent
(Normally Open in Detent Shown)



1/4 Cycle Per Detent



Electrical Characteristics: • **Output:** 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise (CW) • **Closed Circuit Resistance:** 5 ohms maximum • **Open Circuit Resistance:** 100K ohms minimum • **Contact Rating:** 10Milliamp @ 10VDC or 0.1 watt maximum • **Insulation Resistance (500 VDC):** 1,000 megohms minimum • **Dielectric Withstanding Voltage:** MIL-STD-202 Method 301 (Sea Level; 1,000VAC minimum) • **Electrical Travel:** Continuous • **Contact Bounce (15 RPM):** 5 milliseconds maximum • **RPM (Operating):** 120 maximum

Environmental Characteristics: • **Operating Temperature Range:** +1°C to +125°C

Mechanical Characteristics: • **Mechanical Angle:** Continuous • **Torque (Detented):** 0.75 to 2.25 oz-in.

Anti-Rotation Lug Position	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
None	24	ECW1DB24BC0024-ND	4.86	3.78	3.09
9:00	24	ECW1JB24BC0024-ND	4.86	3.78	3.09

BOURNS Rotary Optical Encoders

Fig. 1

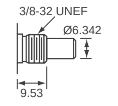


Fig. 2

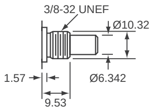
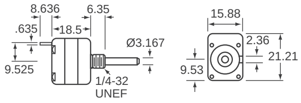


Fig. 3



Electrical Characteristics:

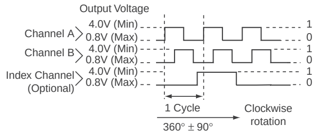
• **Output:** 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise • **Supply Voltage:** 5.0VDC ±0.25VDC • **Supply Current:** 26 mA maximum • **Output Voltage:** 0.8V maximum for low output & 4V minimum for high output • **Output Current (Low Output):** 25 mA minimum • **Insulation Resistance (500 VDC):** 1,000 megohms • **Rise/Fall Time:** 200ns (typical) • **Shaft RPM (Ball Bearing):** 3,000 rpm maximum • **Power Consumption:** 136 mW maximum • **Pulse Width (Electrical Degrees, Each Channel):** 180° ±45° TYP. • **Pulse Width (Index Channel):** 360° ±90° • **Phase (Electrical Degrees, Channel A to Channel B):** 90° ±45° TYP. • **Index Channel Centered on 1-1 State Combination of A and B Channels:** 0° ±45°

Environmental Characteristics:

• **Operating Temp. Range (Standard):** -40°C to +85°C

Mechanical Characteristics:

• **Mechanical Rotation:** Continuous • **Torque (Starting and Running):** A & C Bushings (Spring Loaded for Optimum Feel); 1.5 oz-in. maximum and W,S & T Bushings (Ball Bearing Shaft Support): 0.1 oz-in maximum



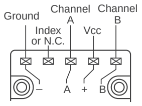


Fig.	Cycles/ Revolution	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
1	64	ENA1JB28L00064-ND	51.37	40.00	32.67
	100	ENA1JB28L00100-ND	51.37	40.00	32.67
	128	ENA1JB28L00128-ND	51.37	40.00	32.67
2	128	ENC1JD28L00128-ND	51.37	40.00	32.67
3	256	ENS1JB28L00256-ND	82.74	64.43	52.62

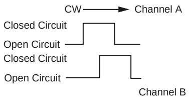
BOURNS 9mm Square/Sealed Encoders

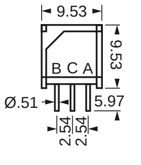
Electrical Characteristics:

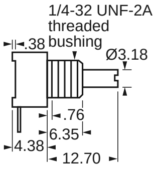
• **Output:** 2-bit gray code, Channel A leads Channel by 90° electrically turning clockwise (CW): 6 pulses per resolution • **Closed Circuit Resistance:** 2 ohms maximum • **Open Circuit Resistance:** 100K ohms minimum • **Contact Rating:** 10Milliamp @ 10VDC or 0.1 Watt maximum • **Insulation Resistance (500 VDC):** 1,000 megohms minimum • **Dielectric Withstanding Voltage: (Sea Level)** 900 VAC minimum; **(Electrical Travel)** Continuous • **Contact Bounce (15 RPM):** 5 milliseconds maximum • **RPM (Operating):** 120 maximum

Environmental Characteristics:

• **Temperature Range:** -55°C to +125°C • **Rotational LIfe:** 100,000 cycles ***Mechanical Characteristics:*** • **Mechanical Angle:** Continuous • **Torque:** 5 oz-in. maximum







Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Price Each 100
9mm Square Right Angle Encoder	3315C-001-006-ND	2.77	2.45	2.06	1.76

HAMLIN Magnetic Reed Switches

The basic reed switch consists of two ferromagnetic reeds, hermetically sealed in a gas filled capsule. When these reeds are introduced to a magnetic field, they assume opposite polarities and attract toward each other closing the contacts. When the magnetic field is reduced beyond the spring force of the reeds the contacts again spring open. Hamlin's reed switches are ideal in auto, marine and moist environment applications and operating environments can be almost anywhere from air, submerged in water or fuels, to dust-laden atmospheres.

Fig. 1

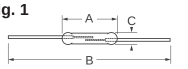


Fig. 2

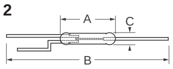


Fig. 3 (SMT)

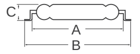


Fig.	Circuit	Ampere Turns	Max. DC Contact Rating		Switching Current (Amp)	Carry Current (Amp)	Operate/ Release (ms)	Dimensions (mm)			Digi-Key Part No.	Pricing			Hamlin Part No.
			Watts	Volts				A	B	C		1	10	50	
Axial Lead Reed Switches															
1	SPST	7-15	3	100	0.25	0.5	.35/.1	6.86	31.36	1.82	HE130-ND	1.43	12.10	50.60	MITI-3 7-15
1	SPST	17-23	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE133-ND	.94	7.98	33.35	MLRR-3 17-23
1	SPST	10-20	10	200	0.5	0.8	.6/.2	12.70	40.39	1.83	HE500-ND	1.04	8.80	36.80	MDSR-7 10-20
1	SPST	17-28	10	300	0.5	1.5	.6/.2	15.24	40.39	2.29	HE501-ND	1.17	9.90	41.40	MDRR-6 17-28
1	SPST	12-23	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE502-ND	1.27	10.73	44.85	MDSR-4 12-23
1	SPST	12-33	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE503-ND	.94	7.98	33.35	MDCG-4 12-33
1	SPST	17-23	10	200	0.75	1.5	.75/.3	19.687	56.77	2.66	HE135-ND	1.07	9.08	37.95	MARR-2 17-23
1	SPST	22-28	10	200	0.75	1.5	.75/.3	19.687	56.77	2.66	HE136-ND	1.07	9.08	37.95	MARR-2 22-28
1	SPST	22-33	10	1000	0.5	1.3	.75/.3	19.687	56.77	2.66	HE504-ND	2.50	21.18	88.55	MARR-5 22-33
1	SPST	22-38	50	250	1.0	2.5	.75/.3	20.32	56.64	2.84	HE505-ND	1.56	13.20	55.20	MRPR-8 22-38
2	SPDT	15-25	5	175	0.25	1.5	.7/1	14.73	52.32	2.67	HE506-ND	3.22	27.23	113.85	MDRR-DT 15-25
2	SPDT	50-65	50	500	1.5	2.0	5.5/8	39.37	85.73	5.33	HE508-ND	8.19	69.30	289.80	DRT-DTH 50-65
2	SPDT	75-80	30	500	0.5	3.0	4.5/7.0	38.10	85.73	5.33	HE134-ND	8.19	69.30	289.80	DRR-DTH 75-80
1	SPST	47-68	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.26	HE509-ND	3.61	30.53	127.65	DRR-129 47-68

Fig.	Circuit	Operate Time (ms)	Release Time (ms)	Switching Volt. (max.)	Switching Current	Carry Current	Dimensions (mm)			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T & R Pricing		Hamlin Part No.
							A	B	C		1	10	50		3,000	6,000	
SMT Reed Switches																	
3	SPST	0.6	0.2	200VDC	0.5	1.2	17.52	19.30	2.84	HE151CT-ND	1.30	11.10	46.25	HE151TR-ND	499.50/M	462.50/M	MDSM-4R 12-18
	SPST	0.6	0.2	200VDC	0.5	0.8	16.64	21.03	1.27	HE152CT-ND	1.65	14.10	58.75	HE152TR-ND	634.50/M	587.50/M	MDSM-7R 10-15

Magnets

A permanent magnet is the most common source for operating the magnetic reed switch. The method used to position the magnet depends upon the switching requirement but can be used in one of four basic techniques; perpendicular or parallel motion (up and down, side to side) rotation (revolving magnet or switch), shielding (passing a ferromagnetic material between the switch and magnet) or biasing which is using one magnet of opposite polarity to cancel another magnet's lines of force.

Fig. 1

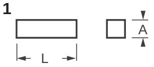


Fig. 2

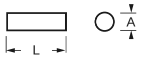


Fig. 3

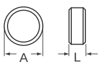


Fig.	Dim. (mm) A x L	Use w/ A.T. Range	Gauss Strength	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Hamlin Part No.
1	1.57 Sq. x 12.70	10-38	45	HE510-ND	1.20	10.18	42.55	H-31
1	4.83 Sq. x 25.40	10-38	200	HE511-ND	3.02	25.58	106.95	H-32
1	3.2 Sq. x 19.1	10-38	135	HE512-ND	1.66	14.03	58.65	H-33
2	3.05 Dia. x 14.99	10-38	120	HE155-ND	1.89	15.95	66.70	315
1	6.35 Sq. x 25.4	10-68	260	HE513-ND	3.41	28.88	120.75	H-34
2	4.62 Dia x 25.40	10-68	155	HE154-ND	2.02	17.05	71.30	H-36
2	3.81 Dia. x 19.81	10-38	175	HE514-ND	1.59	13.48	56.35	420
2	6.00 Dia. x 25.00	10-68	235	HE515-ND	4.55	38.50	161.00	625
3	12.70 Dia. x 5.08	10-38	800	HE153-ND	1.04	8.80	36.80	CM-1

Magnetic Position Sensors

Specifications:

- **Switching Voltage:** SPST-N/O- 200VDC,
  SPST- HV- 300VDC,
  SPDT- 175VDC.
  SPST-N/C-175VDC
- **Initial Contact Resistance:** 0.200Ω.
- **Typical Operate Time:** 1.00 ms.
- **Shock w/o False Operation:** 100 G's, 11 ms, 1/2 sine wave.
- **Operate & Storage Temp:** -40°C to +105°C.

Fig. 1

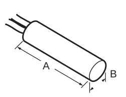


Fig. 2

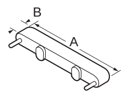
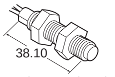


Fig. 3



3A = 5/16 - 24 Thread
3B = M8 x 1.25 Thread

Fig. 4

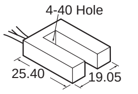


Fig. 5

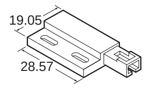


Fig. 6

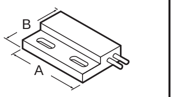


Fig. 7

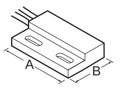


Fig. 8

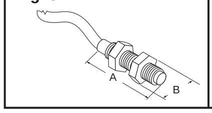


Fig. 9 (SMT)

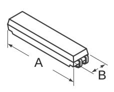


Fig. 5 mates with Digi-Key part number WM2900 (connector), WM2510 (contact)

Fig.	Dim. (mm)		Must Operate/Release Distance (mm)	Termination or Wiring	Digi-Key Sensor Part No.	Pricing			Matching Magnet Part No.	Pricing		
	A	B				1	10	50		1	10	50
SPST-N/O												
1	16.4	5.10	2.54/7.62	12" PVC Leads	59020-010-ND	9.30	78.65	328.90	57020-000-ND	5.17	43.73	182.85
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-010-ND•	4.58	38.78	162.15	57025-000-ND•	3.93	33.28	139.15
2	17.78	4.32	1.90/13.97	PCB Pins	59045-010-ND	2.96	25.03	104.65	57045-000-ND	4.75	40.15	167.90
2	22.86	4.57	3.81/19.05	PCB pins	59050-010-ND•	2.44	20.63	86.25	57050-000-ND•	5.20	44.00	184.00
3A	—	—	3.81/20.32	12" PVC Leads	59065-010-ND•	5.82	49.23	205.85	57065-000-ND•	4.94	41.80	174.80
3B	—	—	3.81/20.32	12" PVC Leads	59070-010-ND	5.82	49.23	205.85	57070-000-ND	4.94	41.80	174.80
8	46.0	M12	10.0/30.0	16' 4" HD Cable	59075-010-ND	47.49	397.21	1619.06	57075-000-ND	53.35	446.20	1818.75
4	—	—	2.54/6.35	12" PVC Leads	59085-010-ND	12.71	107.53	449.65	VANE	—	—	—
5	—	—	3.81/20.32	Connector	59105-010-ND	6.01	50.88	212.75	57105-000-ND	4.16	35.20	147.20
6	28.57	19.05	3.81/20.32	Pins	59125-010-ND•	5.17	43.73	182.85	57125-000-ND•	4.16	35.20	147.20
7	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-010-ND	9.82	83.05	347.30	57135-000-ND	5.56	47.03	196.65
6	23.01	14.00	4.44/20.32	12" PVC Leads	59140-010-ND	5.23	44.28	185.15	57140-000-ND	4.88	41.25	172.50
6	28.57	19.05	5.71/20.32	12" PVC Leads	59145-010-ND•	5.23	44.28	185.15	57145-000-ND•	4.16	35.20	147.20
7	28.57	19.05	5.71/20.32	12" PVC Leads	59150-010-ND•	5.17	43.73	182.85	57150-000-ND•	4.16	35.20	147.20
9	20.32	3.75	3.93/11.17	J-Lead SMT	59160-010-ND	3.54	29.98	125.35	57050-000-ND	5.20	44.00	184.00
SPST-HV-N/O												
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-020-ND†	5.23	44.28	185.15	57025-000-ND†	3.93	33.28	139.15
2	22.86	4.57	3.81/19.05	PCB Pins	59050-020-ND†	3.28	27.78	116.15	57050-000-ND†	5.20	44.00	184.00
3A	—	—	3.81/20.32	12" PVC Leads	59065-020-ND†	6.47	54.73	228.85	57065-000-ND†	4.94	41.80	174.80
3B	—	—	3.81/20.32	12" PVC Leads	59070-020-ND†	6.47	54.73	228.85	57070-000-ND†	4.94	41.80	174.80
5	—	—	3.81/20.32	Connector	59105-020-ND†	6.66	56.38	235.75	57105-000-ND†	4.16	35.20	147.20
6	28.57	19.05	3.81/20.32	Pins	59125-020-ND†	5.82	49.23	205.85	57125-000-ND†	4.16	35.20	147.20
7	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-020-ND	10.47	88.55	370.30	57135-000-ND	5.56	47.03	196.65
6	23.01	14.00	4.44/20.32	12" PVC Leads	59140-020-ND†	5.88	49.78	208.15	57140-000-ND†	4.88	41.25	172.50
6	28.57	19.05	5.71/20.32	12" PVC Leads	59145-020-ND†	5.88	49.78	208.15	57145-000-ND†	4.16	35.20	147.20
7	28.57	19.05	5.71/20.32	12" PVC Leads	59150-020-ND†	5.82	49.23	205.85	57150-000-ND†	4.16	35.20	147.20
SPDT-O/C												
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-030-ND•	7.54	63.80	266.80	57025-000-ND•	3.93	33.28	139.15
3A	—	—	3.81/20.32	12" PVC Leads	59065-030-ND•	8.78	74.25	310.50	57065-000-ND•	4.94	41.80	174.80
3B	—	—	3.81/20.32	12" PVC Leads	59070-030-ND	8.81	74.53	311.65	57070-000-ND	4.94	41.80	174.80
4	—	—	2.54/6.35	12" PVC Leads	59085-030-ND	13.62	115.23	481.85	VANE	—	—	—
7	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-030-ND	12.77	108.08	451.95	57135-000-ND	5.56	47.03	196.65
6	23.01	14.00	4.44/20.32	12" PVC Leads	59140-030-ND•	8.19	69.30	289.80	57140-000-ND•	4.88	41.25	172.50
6	28.57	19.05	5.71/20.32	12" PVC Leads	59145-030-ND•	8.19	69.30	289.80	57145-000-ND•	4.16	35.20	147.20
7	28.57	19.05	5.71/20.32	12" PVC Leads	59150-030-ND•	8.65	73.15	305.90	57150-000-ND•	4.16	35.20	147.20
9	20.32	3.75	3.93/11.17	J-Lead SMT	59160-030-ND	6.11	51.70	216.20	57050-000-ND	5.20	44.00	184.00
SPST-N/C												
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-040-ND	6.86	58.03	242.65	57025-000-ND	3.93	33.28	139.15
3A	—	—	3.81/20.32	12" PVC Leads	59065-040-ND	8.13	68.75	287.50	57065-000-ND	4.94	41.80	174.80
3B	—	—	3.81/20.32	12" PVC Leads	59070-040-ND	8.13	68.75	287.50	57070-000-ND	4.94	41.80	174.80
7	28.57	19.05	4.44/20.32	12" PVC Leads	59140-040-ND	7.54	63.80	266.80	57140-000-ND	4.88	41.25	172.50

• **HE1-KIT-ND** ***Digi-Key® Magnetic Switches Kit*** Assortment of switches denoted. (22 total pieces) Includes notebook style standard case........**$69.95**
† **HE2-KIT-ND** ***Digi-Key® Magnetic Switches Kit*** One each of switches denoted. (18 total pieces) Includes notebook style standard case **$49.95**

NEW! K & D Magnetics, Inc.

Magnets

Made from Neodymium Iron Boron (NdFeB), rare earth magnets. Neodymium Magnets are the most powerful permanent magnetic materials commercially available. Increasing the size of a magnet also increases magnetic strength.

The magnets are nickel plated.

Description	Gauss Strength	Digi-Key Part No.	Price Each			
			1	10	50	100
1" Dia. x 1/8" Thick	10,800	469-1000-ND	2.63	2.23	1.87	1.52
3/4" Dia. x 1/8" Thick	10,800	469-1001-ND	1.46	1.24	1.04	.85
1/2" Dia. x 1/8" Thick	10,800	469-1002-ND	.59	.50	.42	.34
1/4" Dia. x 1/4" Thick	10,800	469-1003-ND	.59	.50	.42	.34
1/4" Dia. x 1/8" Thick	10,800	469-1004-ND	.29	.25	.21	.17
1/4" Dia. x 1/16" Thick	10,800	469-1005-ND	.42	.36	.30	.25
1" x 2" x 1/8" Thick	10,800	469-1006-ND	7.80	6.60	5.52	4.50
1" x 2" x 1/4" Thick	10,800	469-1007-ND	11.70	9.90	8.28	6.75

SRC DEVICES

Magnetic Reed Switches

Reed switches have been used in thousands of applications from non-contact switches to sensing direction, speed and position.

Reed switches are a reliable, low cost, low current switch that are hermitically sealed for operation in the most demanding environments.

Fig. 1

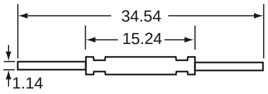
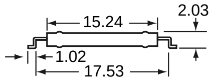


Fig. 2 — SMT



Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Fig. 1 — Magnetic Reed Switches											
SPST	10-15	5-15	200VDC/VAC	0.5A	1.5A	420-1000-ND	.91	7.70	32.20	52.50	FR2S1015-051500
SPST	10-20	5-20	200VDC/VAC	0.5A	1.5A	420-1001-ND	.85	7.15	29.90	48.75	FR2S1020-052000
SPST	15-20	5-20	200VDC/VAC	0.5A	1.5A	420-1002-ND	1.30	11.00	46.00	75.00	FR2S1520-052000
SPST	15-25	5-20	200VDC/VAC	0.5A	1.5A	420-1003-ND	1.30	11.00	46.00	75.00	FR2S1525-0525
SPST	20-25	5-25	200VDC/VAC	0.5A	1.5A	420-1004-ND	.91	7.70	32.20	52.50	FR2S2025-052500
SPST	20-30	5-30	200VDC/VAC	0.5A	1.5A	420-1005-ND	1.14	9.63	40.25	65.63	FR2S2030-053000

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	T & R Pricing* 3,000	6,000	SRC Devices Part No.
Fig. 2 — SMT Reed Switches on Tape												
SPST	15-25	5-22	200VDC/VAC	0.5A	1.5A	420-1006-1-ND	1.27	11.31	45.83	507.00/M	477.75/M	FR2249
SPST	10-20	5-18	200VDC/VAC	0.5A	1.5A	420-1007-1-ND	1.27	11.31	45.83	507.00/M	477.75/M	FR2259

• Operate and Release values are given in Ampere-Turns. * For Tape & Reel part number, change 1-ND to 2-ND.

Cannon

ITT Industries
Engineered for life

Magnetic Sensors

Fig. 1

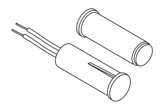


Fig. 2

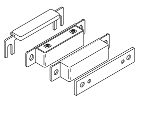


Fig. 3

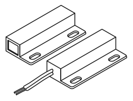


Fig. 4

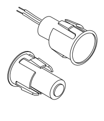


Fig. 5

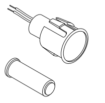


Fig. 6

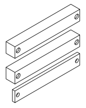
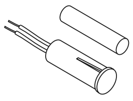


Fig. 7



ITT's MPS Series Magnetic Proximity Sensors operate when a magnetic field approaches two magnetic reed blades. The magnetic field overcomes the spring tension of the blades and brings the contacts together. When the magnetic actuator is removed, the reeds separate by their own spring tension. Comes complete with reed switch and matching actuator.

FEATURES: • Long Life Expectancy — 10 million operations • Housing made of rugged impact resistant ABS plastic that meets or exceeds UL requirements for fire retardation • Sealed Contacts allowing the reed to operate in damp and dusty environments • Wide gap performance makes magnet and switch alignment less critical.

SPECIFICATIONS: • **Contact Ratings:** 100 VDC or 100 VAC max. @ 0.3 Amp Max.; 1.0 Amp Max. Carry Current • **Operating Temperature:** -40°C to +100°C • **Mechanical & Electrical Life:** 10 Million Operations

MATERIALS: • **Housing/Spacer/Cover:** ABS Plastic (UL94V-0), white • **Wire Leads:** UL1061, 22 AWG: stranded, made of copper or aluminum; Length: 12" (30.48cm) with ends stripped; Color: white • **Magnets:** Alnico V and Ceramic Ferrite 8 (MPS80WG model only).

NOTE: Wide gap contacts are polarity sensitive. Use alignment dots for proper installation of surface mount contacts.

Fig.	Make Gap (mm)	Release Gap (mm)	Digi-Key Part No.	Pricing 1	10	100	250	ITT Ind. Part No.
1	31.75	40.64	CKN6002-ND	5.61	48.45	408.00	924.38	MPS9WGW
2	31.75	31.75	CKN6003-ND	6.93	59.85	504.00	1141.88	MPS20WGW
3	25.40	33.02	CKN6004-ND	5.94	51.30	432.00	978.75	MPS45WGW
4	31.75	40.64	CKN6005-ND	6.60	57.00	480.00	1087.50	MPS70WGW
5	31.75	40.64	CKN6006-ND	6.60	57.00	480.00	1087.50	MPS73WGW
6	50.80	50.80	CKN6007-ND	6.60	57.00	480.00	1087.50	MPS80WGW
7	31.75	40.64	CKN6008-ND	5.61	48.45	408.00	924.38	MPS95WGW

CHERRY

Magnetic Reed Position Sensors

Features: • **Operating Temperature:** -40° to +105°C
• **Leads:** 24 AWG PVC, Pre-tinned, 12" long

Fig. 1

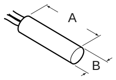


Fig. 2

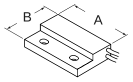


Fig. 3

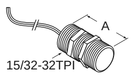


Fig. 4

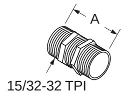


Fig.	Description	Dim. - Inch A	B	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
1	Magnetic Position Sensor, 10W, SPST-NO, .5A	1.00	ø.243	CH402-ND	3.16	2.81	2.34	MP201701
	Magnetic Position Sensor, 3W, SPST-NC, .2A	1.00	ø.243	CH403-ND	4.75	4.23	3.52	MP201702
	Magnetic Position Sensor, 3W, SPDT-CO, .2A	1.00	ø.243	CH404-ND	5.21	4.64	3.86	MP201703
1	Smooth Barrel Actuator	1.00	ø.243	CH411-ND	2.97	2.64	2.20	AS201701
2	Mini Flange Mount Proximity Sensors,10W, SPST-NO, .5A	.906	.550	CH405-ND	3.46	3.08	2.56	MP201801
	Mini Flange Mount Proximity Sensors, 3W, SPST-NC, .2A	.906	.550	CH406-ND	5.21	4.64	3.86	MP201802
2	Mini Flange Mount Actuator	.906	.550	CH412-ND	3.11	2.76	2.30	AS201801
2	Flange Mount Proximity Sensors, 10W, SPST-NO, .5A	1.125	.750	CH407-ND*	3.59	3.20	2.66	MP201901
	Flange Mount Proximity Sensors, 3W, SPST-NC, .2A	1.125	.750	CH408-ND*	5.37	4.78	3.98	MP201902
	Flange Mount Proximity Sensors, 3W, SPDT-CO, .2A	1.125	.750	CH409-ND*	5.89	5.24	4.36	MP201903
2	Flange Mount Actuator	1.125	.750	CH413-ND	3.38	3.00	2.50	AS201901
3	Magnetic Position Sensor Aluminum 10W, SPST-NO, .5A	1.00	—	CH410-ND	10.13	9.00	7.50	MP200701
	Magnetic Position Sensor Aluminum 3W, SPST-NC .2A	1.00	—	CH709-ND	12.56	11.16	9.30	MP200702
	Magnetic Position Sensor Aluminum 3W, SPDT-CO .2A	1.00	—	CH710-ND	13.10	11.64	9.70	MP200703
4	Threaded Actuator, South pole magnet	1.00	—	CH397-ND	14.01	12.46	9.76	HE610400

*Wire leads extend from opposite side of switch

COTO TECHNOLOGY

Magnetic Reed Switches

Fig. 1

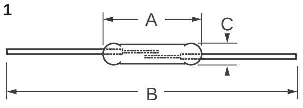


Fig. 2

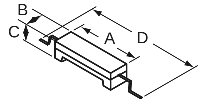


Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Volts	Switching Current (Amp)	Carry Current (Amp)	Operate/ Release (ms)	Dimensions - Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Coto Part No.
1	SPST	18-32	10	200	0.5	1	.25/30	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1087-ND	.94	.80	.67	RI-23A
	SPST	14-23	10	200	0.5	1.5	.25/30	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1086-ND	.91	.77	.65	RI-23AA
	SPST	8-16	10	200	0.5	1	.10/70	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1085-ND	.88	.75	.63	RI-23AAA
	SPST	28-52	10	200	0.5	2.5	.25/30	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1088-ND	.98	.83	.69	RI-23B
	SPST	46-70	10	200	0.5	2.75	.25/30	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1089-ND	1.01	.86	.72	RI-23C
	SPST	18-32	15	200	1	2.5	.25/30	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1092-ND	1.01	.86	.72	RI-25A
	SPST	14-23	15	200	1	1.75	.25/30	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1091-ND	.98	.83	.69	RI-25AA
	SPST	8-16	10	200	0.75	1.5	.25/70	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1090-ND	.94	.80	.67	RI-25AAA
	SPST	28-52	25	200	1	2.75	.25/30	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1093-ND	1.04	.88	.74	RI-25B
	SPST	46-70	25	200	1	3	.25/30	.591 (15.00)	1.811 (46.00)	.100 (2.54)	306-1094-ND	1.07	.91	.76	RI-25C
	SPST	20-34	10	200	0.5	1.75	.25/30	.531 (13.50)	1.811 (46.00)	.071 (1.80)	306-1082-ND	1.04	.88	.74	RI-27A
	SPST	16-25	10	200	0.5	1.75	.25/30	.531 (13.50)	1.811 (46.00)	.071 (1.80)	306-1081-ND	1.04	.88	.74	RI-27AA
	SPST	10-19	10	180	0.5	1.5	.25/30	.531 (13.50)	1.811 (46.00)	.071 (1.80)	306-1080-ND	1.04	.88	.74	RI-27AAA
	SPST	20-34	20	200	1	1.25	.25/30	.531 (13.50)	1.811 (46.00)	.071 (1.80)	306-1084-ND	1.04	.88	.74	RI-29A
	SPST	16-25	15	200	1	1.25	.25/30	.531 (13.50)	1.811 (46.00)	.071 (1.80)	306-1083-ND	1.04	.88	.74	RI-29AA
	SPST	15-28	30	200	1	2.5	.35/30	.807 (20.50)	2.157 (54.80)	.106 (2.70)	306-1099-ND	1.07	.91	.76	RI-46A
	SPST	10-19	30	200	0.75	2	.35/30	.807 (20.50)	2.157 (54.80)	.106 (2.70)	306-1098-ND	.88	.75	.63	RI-46AA
	SPST	24-51	40	200	1	3	.35/30	.807 (20.50)	2.157 (54.80)	.106 (2.70)	306-1100-ND	1.11	.94	.79	RI-46B
	SPST	46-70	40	200	1	3	.35/30	.807 (20.50)	2.157 (54.80)	.106 (2.70)	306-1101-ND	1.14	.97	.81	RI-46C
	SPST	15-28	70	200	1	1.75	.35/30	.807 (20.50)	2.157 (54.80)	.106 (2.70)	306-1102-ND	1.11	.94	.79	RI-48A
	SPST	24-51	70	200	1	2.25	.35/30	.807 (20.50)	2.157 (54.80)	.106 (2.70)	306-1103-ND	1.14	.97	.81	RI-48B
	SPST	46-70	70	200	1	2.25	.35/30	.807 (20.50)	2.157 (54.80)	.106 (2.70)	306-1104-ND	1.17	.99	.83	RI-48C
	SPST	10-15	10	200	0.5	0.5	.15/20	.394 (10.00)	1.811 (46.00)	.071 (1.80)	306-1121-ND	.88	.75	.63	RI60GP1015
	SPST	15-20	10	200	0.5	0.5	.15/20	.394 (10.00)	1.811 (46.00)	.071 (1.80)	306-1122-ND	.88	.75	.63	RI60GP1520
	SPST	7-15	10	200	0.5	2.5	.25/30	.276 (7.00)	1.811 (46.00)	.071 (1.80)	306-1077-ND	1.63	1.38	1.15	RI-70CTA
	SPST	8-16	10	170	0.5	0.5	.15/20	.276 (7.00)	1.811 (46.00)	.071 (1.80)	306-1123-ND	1.30	1.10	.92	RI70GP0715

Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Volts	Switching Current (Amps)	Carry Current (Amps)	Operate/ Release (ms)	Dimensions - Inches (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Size	Price	Coto Part No.
2	SPST	15-30	10	200	0.5	0.5	—	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635/.645 (16.13/16.38)	306-1125-1-ND	1.95	1.65	1.38	306-1125-2-ND	2,000	780.00/M	CT10-1530-G1
	SPST	15-40	10	200	0.5	0.5	—	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635/.645 (16.13/16.38)	306-1124-1-ND	1.95	1.65	1.38	306-1124-2-ND	2,000	780.00/M	CT10-1540-G1
	SPST	25-40	10	200	0.5	0.5	—	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635/.645 (16.13/16.38)	306-1126-1-ND	1.95	1.65	1.38	306-1126-2-ND	2,000	780.00/M	CT10-2540-G1

MEDER electronic

Magnetic Reed Sensors

Meder Magnetic Sensors are magnetically operated proximity switches for either surface mounting, PCB mounting or panel mounting. Use for telephone hook switch detection, door and window sensing, limit switches for garage doors and hoists and conveyers. Switches are completely sealed for indoor/outdoor operation and are available in various magnetic sensitivities, perfect for auto-insert equipment and automated processes. All sensors will actuate when a magnetic field is introduced to them and will remain actuated until the magnetic field is removed. **Operating Temp:** -20° to +85°C, -20°C to +130°C for Fig. 3, 4, and 5.

Fig.	Circuit	Dimensions (mm) A	B	Switching Voltage	Current	Termination or Wiring	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Size	Pricing	Meder Part No.
1	SPST-NO	17.00	5.00	200	0.5	100 mm PVC Leads	374-1023-ND	5.46	4.88	3.95	—	—	—	MK18-B-100W
	SPST-NO	17.00	5.00	200	0.5	100 mm PVC Leads	374-1024-ND	5.46	4.88	3.95	—	—	—	MK18-C-100W
	SPST-NC	25.50	5.75	180	0.5	500 mm PVC Leads	374-1027-ND	4.68	4.18	3.39	—	—	—	MK3-1A71B-500W
	SPST-NO	25.50	5.75	180	0.5	500 mm PVC Leads	374-1028-ND	4.68	4.18	3.39	—	—	—	MK3-1A71C-500W
	SPST-NC	25.50	5.75	175	0.25	500 mm PVC Leads	374-1029-ND	7.44	6.65	5.39	—	—	—	MK3-1B90C-500W
	SPST-NO-NC	25.50	5.75	175	0.25	500 mm PVC Leads	374-1030-ND	7.83	6.99	5.67	—	—	—	MK3-1C90C-500W
2	SPST-NO	12.06	3.30	170	0.5	PCB Pins	374-1031-ND	3.32	2.96	2.40	—	—	—	MK6-4-B
	SPST-NO	14.30	2.80	200	0.5	PCB Pins	374-1032-ND	2.11	1.89	1.53	—	—	—	MK6-5-B
	SPST-NO	14.30	2.80	200	0.5	PCB Pins	374-1033-ND	2.11	1.89	1.53	—	—	—	MK6-5-C
	SPST-NO	17.24	3.30	180	0.5	PCB Pins	374-1034-ND	1.92	1.72	1.39	—	—	—	MK6-6-B
	SPST-NO	17.24	3.30	180	0.5	PCB Pins	374-1035-ND	2.05	1.83	1.49	—	—	—	MK6-6-C
	SPST-NO	19.78	3.30	180	0.5	PCB Pins	374-1036-ND	1.89	1.69	1.37	—	—	—	MK6-7-B
	SPST-NO	22.32	3.30	180	0.5	PCB Pins	374-1037-ND	1.79	1.60	1.30	—	—	—	MK6-8-B
	SPST-NO-NC	22.32	3.30	175	0.25	PCB Pins	374-1038-ND	6.47	5.78	4.68	—	—	—	MK6-8-H
3	SPST-NO	18.80	3.70	180	0.5	SMT	374-1004-1-ND	1.72	1.54	1.25	374-1004-2-ND	2,000	689.00/M	MK1-B
	SPST-NO	18.80	3.70	180	0.5	SMT	374-1005-1-ND	1.43	1.28	1.04	374-1005-2-ND	2,000	572.00/M	MK1-C
4	SPST-NO	16.00	2.50	200	0.5	SMT 10-15 A/T	374-1013-1-ND	1.20	1.08	.87	374-1013-2-ND	2,500	481.00/M	MK15-B-2
	SPST-NO	16.00	2.50	200	0.5	SMT 15-20 A/T	374-1015-1-ND	1.20	1.08	.87	374-1015-2-ND	2,500	481.00/M	MK15-C-2
	SPST-NO	11.50	2.30	200	0.5	SMT 10-15 A/T	374-1017-1-ND	1.43	1.28	1.04	374-1017-2-ND	2,500	572.00/M	MK16-B-2
	SPST-NO	11.50	2.30	200	0.5	SMT 15-20 A/T	374-1019-1-ND	1.43	1.28	1.04	374-1019-2-ND	2,500	572.00/M	MK16-C-2
	SPST-NO	8.50	2.10	170	0.5	SMT 10-15 A/T	374-1021-1-ND	2.76	2.47	2.00	374-1021-2-ND	2,000	1105.00/M	MK17-B-2
5	SPST-NO	16.00	2.50	200	0.5	SMT 10-15 A/T	374-1012-1-ND	1.20	1.08	.87	374-1012-2-ND	2,500	481.00/M	MK15-B-1
	SPST-NO	16.00	2.50	200	0.5	SMT 15-20 A/T	374-1014-1-ND	1.20	1.08	.87	374-1014-2-ND	2,500	481.00/M	MK15-C-1
	SPST-NO	11.50	2.30	200	0.5	SMT 10-15 A/T	374-1016-1-ND	1.43	1.28	1.04	374-1016-2-ND	2,500	572.00/M	MK16-B-1
	SPST-NO	11.50	2.30	200	0.5	SMT 15-20 A/T	374-1018-1-ND	1.43	1.28	1.04	374-1018-2-ND	2,500	572.00/M	MK16-C-1
	SPST-NO	8.50	2.10	170	0.5	SMT 10-15 A/T	374-1020-1-ND	2.15	1.92	1.56	374-1020-2-ND	2,500	858.00/M	MK17-B-1
	SPST-NO	8.50	2.10	170	0.5	SMT 15-20 A/T	374-1022-1-ND	2.76	2.47	2.00	374-1022-2-ND	2,500	1105.00/M	MK17-C-1
6	SPST-NO	24.90	—	180	0.5	500 mm PVC Leads	374-1006-ND	8.00	7.14	5.79	—	—	—	MK11-1A71B-500W
	SPST-NO	24.90	—	180	0.5	500 mm PVC Leads	374-1007-ND	8.00	7.14	5.79	—	—	—	MK11-1A71C-500W
7	SPST-NO	32.00	14.90	180	0.5	500 mm PVC Leads	374-1008-ND	5.23	4.67	3.79	—	—	—	MK12-1A71B-500W
	SPST-NO	32.00	14.90	180	0.5	500 mm PVC Leads	374-1009-ND	5.23	4.67	3.79	—	—	—	MK12-1A71C-500W
	SPST-NO	23.00	13.90	180	0.5	500 mm PVC Leads	374-1010-ND	5.23	4.67	3.79	—	—	—	MK13-1A71B-500W
	SPST-NO	23.00	13.90	180	0.5	500 mm PVC Leads	374-1011-ND	5.23	4.67	3.79	—	—	—	MK13-1A71C-500W
	SPST-NO	28.60	19.00	180	0.5	500 mm Teflon Leads	374-1025-ND	5.88	5.25	4.26	—	—	—	MK21-1A71B-500W
	SPST-NO	28.60	19.00	180	0.5	500 mm Teflon Leads	374-1026-ND	5.88	5.25	4.26	—	—	—	MK21-1A71C-500W
	—	23.00	13.90	Magnet	Magnet	—	374-1003-ND	1.89	1.69	1.37	—	—	—	M13 MAGNETS

Fig. 1

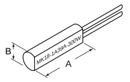


Fig. 2

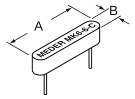


Fig. 3

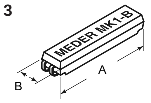


Fig. 4

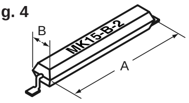


Fig. 5

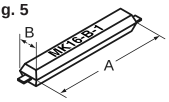


Fig. 6

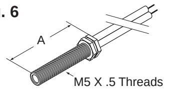
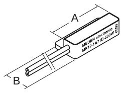


Fig. 7



Level Sensors with Magnetic Float

Fig. 1

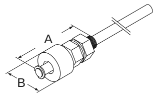


Fig. 2

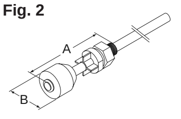
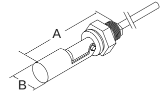


Fig. 3

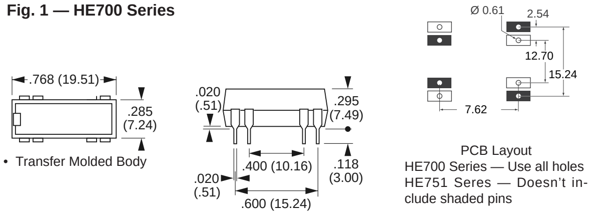


Compact sensors for detection of liquid levels such as oils, petroleum and fluids. LS01 and 02 series are for vertical tank mounting and LS03 is for horizontal mounting. Perfect for tank monitoring in household, automotive and control-test, measurement industries. Sensors are made of strong Polyimide material and include seals and mounting nut. **Switching Current:** .5A, **Switching Voltage:** 200V, stripped and tinned leads.

Fig.	Dimensions (mm) A	B	Bushing	Operating Temp.	Termination or Wiring	Digi-Key Part No.	Price Each 1	10	50	Meder Part No.
1	42.5	24	M8x1.25	0 to 70°C	500mm PVC Leads	374-1000-ND	9.82	8.76	7.10	LS01-1A71-PA-500W
2	72.5	23.5	M10x1.0	-20 to 100°C	500mm PVC Leads	374-1001-ND	9.82	8.76	7.10	LS02-1A71-PA-500W
3	80	17.2	M16x1.5	-20 to 100°C	500mm PVC Leads	374-1002-ND	12.09	10.79	8.75	LS03-1A71-PA-500W

HAMLIN Reed Relays

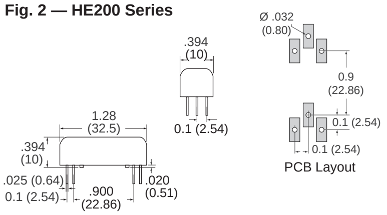
Fig. 1 — HE700 Series



- Transfer Molded Body

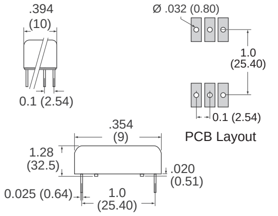
PCB Layout
HE700 Series — Use all holes
HE751 Series — Doesn't include shaded pins

Fig. 2 — HE200 Series



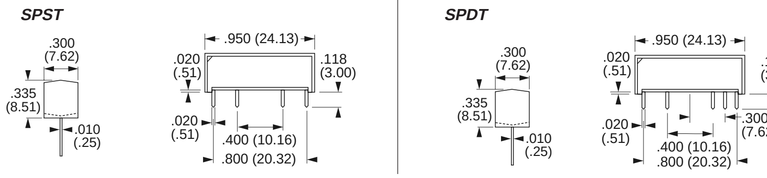
PCB Layout

Fig. 3 — HE400 Series



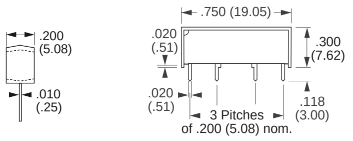
PCB Layout

Fig. 4 — HE3300 Series

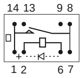
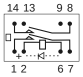
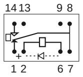
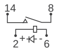
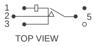
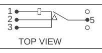
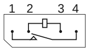
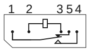
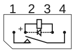


Standard Sip

Fig. 5 — HE3600 Series



Miniature Sip

Top View	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/ Dropout (VDC@ 25°C)	Switch. Volt. (VDC)	Switch Current (Amps)	Carry Current (Amps)	Cont. Res. (Ω)	Oper./ Rel. Time (msec)	Ins. Res. (Ω)	Features	Digi-Key Part No.	Pricing 1	10	50	100	Hamlin Part No.
Fig. 1 — 700 Series DIP Reed Relays																
1A SPST-NO 	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE100-ND	2.44	20.63	86.25	140.63	HE721A0500
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE101-ND	2.70	22.83	95.45	155.63	HE721A0510
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE102-ND	2.70	22.83	95.45	155.63	HE721A1200
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE103-ND	2.96	25.03	104.65	170.63	HE721A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE104-ND	3.35	28.33	118.45	193.13	HE721A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE105-ND	3.61	30.53	127.65	208.13	HE721A2410
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	Low Profile	HE137-ND	3.06	25.85	108.10	176.25	HE721A0515
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	Low Profile	HE138-ND	3.51	29.70	124.20	202.50	HE721A1215
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	Low Profile	HE139-ND	4.19	35.48	148.35	241.88	HE721A2415
2A DPST-NO 	5	200	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE123-ND	4.68	39.60	165.60	270.00	HE722A0510
	5	150	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE106-ND	4.06	34.38	143.75	234.38	HE722A0600
	5	150	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE107-ND	4.32	36.58	152.95	249.38	HE722A0610
	12	500	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE108-ND	4.32	36.58	152.95	249.38	HE722A1200
	12	500	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE109-ND	4.58	38.78	162.15	264.38	HE722A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE110-ND	5.36	45.38	189.75	309.38	HE722A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE111-ND	5.62	47.58	198.95	324.38	HE722A2410
1C SPDT-CO 	5	200	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE112-ND	5.56	47.03	196.65	320.63	HE721C0500
	5	200	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^{9}	w/Diode	HE113-ND	5.82	49.23	205.85	335.63	HE721C0510
	12	500	8.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE114-ND	5.82	49.23	205.85	335.63	HE721C1200
	12	500	8.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	w/Diode	HE115-ND	6.11	51.70	216.20	352.50	HE721C1210
	24	2000	16.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE116-ND	6.66	56.38	235.75	384.38	HE721C2400
	24	2000	16.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	w/Diode	HE117-ND	6.96	58.85	246.10	401.25	HE721C2410
1A SPST-NO 	5	500	3.75/0.5	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE124-ND	4.71	39.88	166.75	271.88	HE751A0510
	12	1000	8.0/1.0	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE125-ND	5.20	44.00	184.00	300.00	HE751A1210
	24	2150	16.0/2.0	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE126-ND	5.62	47.58	198.95	324.38	HE751A2410
Fig. 2 — 200 Series DIP Reed Relays																
1A SPST-NO 	5	140	3.5/0.28	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE118-ND	3.84	32.45	135.70	221.25	HE221A0550
	12	855	8.4/0.7	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE119-ND	4.06	34.38	143.75	234.38	HE221A1250
	24	3285	16.8/1.4	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE120-ND	4.52	38.23	159.85	260.63	HE221A2450
Fig. 3 — 400 Series DIP Reed Relays																
1A SPST-NO 	12	960	8.5/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE121-ND	4.06	34.38	143.75	234.38	HE421A1250
	24	3840	18.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE122-ND	4.52	38.23	159.85	260.63	HE421A2450
Fig. 4 — 3300 Series SIP Reed Relays																
1A SPST-NO 	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE200-ND	2.37	20.08	83.95	136.88	HE3321A0400
	12	500	9.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE201-ND	2.37	20.08	83.95	136.88	HE3321A1200
	24	2000	18.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE202-ND	2.99	25.30	105.80	172.50	HE3321A2400
	5	125	3.75/0.5	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE127-ND	3.61	30.53	127.65	208.13	HE3351A0500
	12	500	9.0/1.0	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE128-ND	3.61	30.53	127.65	208.13	HE3351A1200
	24	2000	18.0/2.0	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE129-ND	4.06	34.38	143.75	234.38	HE3351A2400
1C SPDT-CO 	5	125	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE203-ND	4.81	40.70	170.20	277.50	HE3321C0500
	12	500	9.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE204-ND	5.07	42.90	179.40	292.50	HE3321C1200
	24	2000	18.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE205-ND	5.53	46.75	195.50	318.75	HE3321C2400
Fig. 5 — 3600 Series Ultra Miniature Reed Relays																
1A SPST-NO 	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE206-ND	2.15	18.15	75.90	123.75	HE3621A0500
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE207-ND	2.41	20.35	85.10	138.75	HE3621A0510
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE208-ND	2.44	20.63	86.25	140.63	HE3621A1200
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE209-ND	2.73	23.10	96.60	157.50	HE3621A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE210-ND	3.06	25.85	108.10	176.25	HE3621A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE211-ND	3.32	28.05	117.30	191.25	HE3621A2410

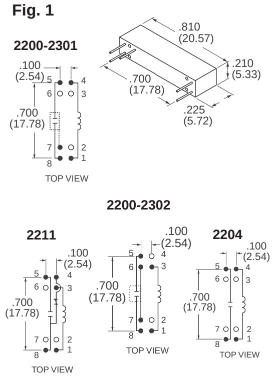
COTO TECHNOLOGY

Reed Relays

SPECIFICATIONS: • Life Expectancy: Varies with each series from a minimum of 100 x 10^6 operations to 1000 x 10^6 operations **• Insulation Resistance:** $10^{12}\Omega$ **• Storage Temperature:** -35°C to +100°C **• Operating Temperature:** -20°C to +85°C **• Vibration:** 20 G's to 2000 Hz; Shock: 50 G's

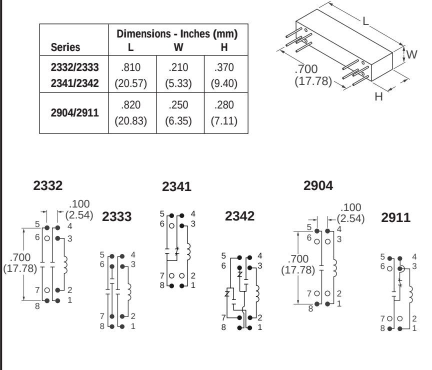
Dimensions: inches (mm)

Fig. 1



Top View Shown

Fig. 2



Series	Dimensions - Inches (mm) L	W	H
2332/2333 2341/2342	.810 (20.57)	.210 (5.33)	.370 (9.40)
2904/2911	.820 (20.83)	.250 (6.35)	.280 (7.11)

Top View Shown

Fig. 3

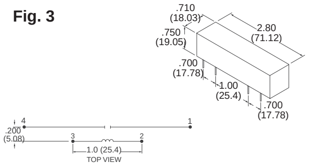
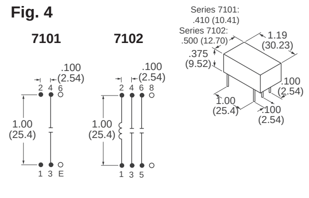


Fig. 4



Bottom View Shown

Fig. 5

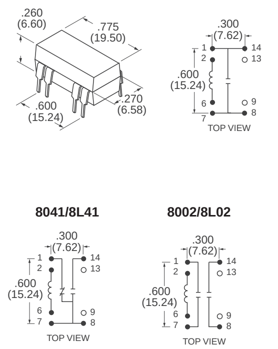
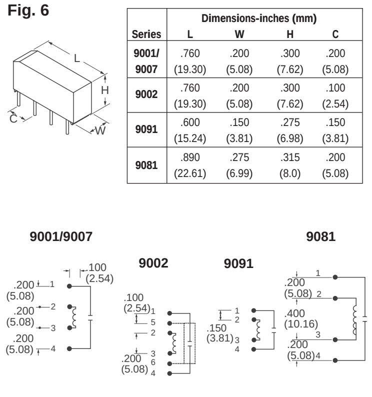


Fig. 6



Series	Dimensions-inches (mm) L	W	H	C
9001/ 9007	.760 (19.30)	.200 (5.08)	.300 (7.62)	.200 (5.08)
9002	.760 (19.30)	.200 (5.08)	.300 (7.62)	.100 (2.54)
9091	.600 (15.24)	.150 (3.81)	.275 (6.98)	.150 (3.81)
9081	.890 (22.61)	.275 (6.99)	.315 (8.0)	.200 (5.08)

Top View Shown

Fig. 7

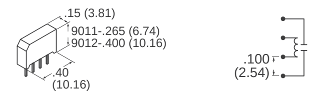


Fig. 8

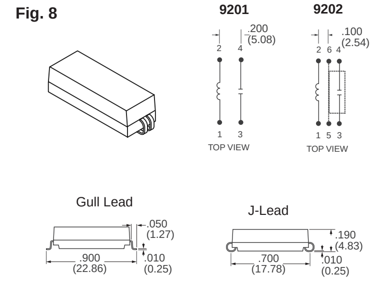


Fig. 9

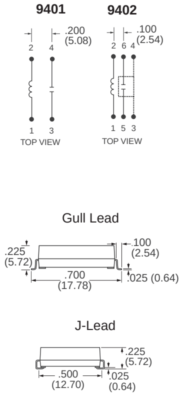


Fig. 10

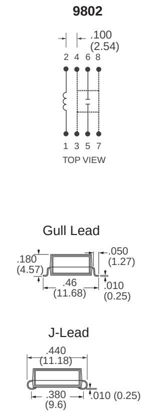


Fig. 11

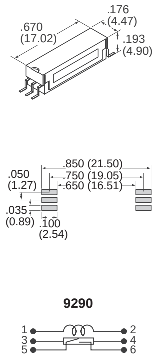


Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
1	SPST	5	33.3	0.5	1	With Electrostatic Shield	306-1001-ND	8.40	7.27	6.22	5.33	2200-2301
	SPST	5	33.3	0.5	1	With Coaxial Shield	306-1002-ND	8.61	7.45	6.38	5.47	2200-2302
	SPST	5	13.5	0.5	1	—	306-1003-ND	7.59	6.57	5.63	4.82	2204-05-401
	SPST	5	13.5	0.5	1	With Electrostatic Shield	306-1004-ND	7.83	6.78	5.80	4.97	2204-05-411
	SPST	12	8	0.5	1	—	306-1105-ND	7.75	6.71	5.74	4.92	2204-12-301
	SPST	12	8	0.5	1	With Electrostatic Shield	306-1005-ND	7.96	6.89	5.90	5.05	2204-12-311
	SPDT	5	21.8	0.25	0.5	—	306-1006-ND	10.61	9.35	8.21	7.45	2211-05-301
	SPDT	12	8	0.25	0.5	—	306-1007-ND	10.84	9.55	8.39	7.62	2211-12-301
2	DPST	5	28.5	0.5	1.5	—	306-1106-ND	7.83	6.78	5.80	4.97	2332-05-000
	DPST	12	12	0.5	1.5	—	306-1008-ND	7.83	6.78	5.80	4.97	2332-12-000
	SPDT	5	28.5	0.5	1.5	—	306-1107-ND	10.89	9.43	8.07	6.92	2341-05-000
	SPDT	12	12	0.5	1.5	—	306-1108-ND	10.89	9.43	8.07	6.92	2341-12-000
	3PST	5	28.5	0.5	1.5	—	306-1109-ND	9.78	8.46	7.24	6.21	2333-05-000
	3PST	12	12	0.5	1.5	—	306-1110-ND	9.78	8.46	7.24	6.21	2333-12-000
	DPDT	5	28.5	0.25	0.5	—	306-1111-ND	12.08	10.64	9.35	8.49	2342-05-000
	DPDT	12	12	0.25	0.5	—	306-1112-ND	12.08	10.64	9.35	8.49	2342-12-000
	SPDT	5	13.5	0.25	1	With Coaxial Shield	306-1113-ND	10.50	9.25	8.13	7.38	2911-05-321
	SPDT	12	8	0.25	1	With Coaxial Shield	306-1114-ND	10.61	9.35	8.21	7.45	2911-12-321
	SPST	12	8	0.5	1.5	—	306-1009-ND	8.09	7.00	5.99	5.14	2904-12-301
3	SPST	12	68.6	3.0	5	High Voltage - 7500V	306-1010-ND	20.12	18.18	17.28	16.37	5501-12-1
	SPST	24	41.7	3.0	5	High Voltage - 7500V	306-1011-ND	20.48	18.51	17.59	16.66	5501-24-1
4	SPST	12	16.7	0.5	2	High Reliability w/E. S.	306-1012-ND	10.92	9.45	8.09	6.93	7101-12-1010
	SPST	12	16.7	0.5	2	High Reliability w/E. S. & Diode	306-1013-ND	12.71	11.01	9.42	8.07	7101-12-1011
	DPST	12	16.7	0.5	2	High Reliability w/E.S.	306-1014-ND	10.54	9.29	8.16	7.41	7102-12-1010
	DPST	12	16.7	0.5	2	High Reliability w/E. S. & Diode	306-1015-ND	11.99	10.57	9.28	8.43	7102-12-1011
5	SPST	5	10	0.5	1	Extended Lifetime	306-1016-ND	3.77	3.19	2.67	2.18	8001-05-001
	DPST	5	10	0.5	1	Extended Lifetime w/E.S.	306-1017-ND	5.23	4.43	3.71	3.02	8002-05-10
	SPDT	5	10	0.25	0.5	Extended Lifetime	306-1018-ND	6.47	5.48	4.58	3.74	8041-05-001
	SPST	5	10	0.5	1	Economy	306-1019-ND	2.05	1.74	1.45	1.19	8L01-05-001

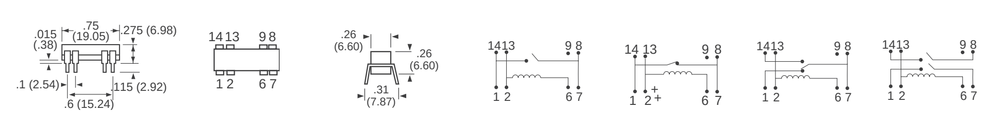
(Continued)

Reed Relays *(Cont.)*

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
5	SPST	5	10	0.5	1	Economy w/Diode	306-1020-ND	2.24	1.90	1.59	1.30	8L01-05-011
	SPST	5	10	0.5	1	Economy w/E. S.	306-1021-ND	2.24	1.90	1.59	1.30	8L01-05-101
	SPST	5	10	0.5	1	Economy w/E. S. & Diode	306-1022-ND	2.41	2.04	1.71	1.39	8L01-05-111
	SPST	12	24	0.5	1	Economy	306-1023-ND	2.05	1.74	1.45	1.19	8L01-12-001
	SPST	12	24	0.5	1	Economy w/Diode	306-1024-ND	2.24	1.90	1.59	1.30	8L01-12-011
	SPST	12	24	0.5	1	Economy w/E. S.	306-1025-ND	2.24	1.90	1.59	1.30	8L01-12-101
	SPST	12	24	0.5	1	Economy w/E. S. & Diode	306-1026-ND	2.41	2.04	1.71	1.39	8L01-12-111
	SPST	24	11.1	0.5	1	Economy	306-1027-ND	2.24	1.90	1.59	1.30	8L01-24-001
	SPST	24	11.1	0.5	1	Economy w/Diode	306-1028-ND	2.41	2.04	1.71	1.39	8L01-24-011
	SPST	24	11.1	0.5	1	Economy w/E. S.	306-1029-ND	2.41	2.04	1.71	1.39	8L01-24-101
	SPST	24	11.1	0.5	1	Economy w/E. S. & Diode	306-1030-ND	2.57	2.18	1.82	1.49	8L01-24-111
	DPST	5	10	0.5	1	Economy	306-1031-ND	3.09	2.62	2.19	1.79	8L02-05-00
	DPST	5	10	0.5	1	Economy w/Diode	306-1032-ND	3.25	2.75	2.30	1.88	8L02-05-01
	DPST	5	10	0.5	1	Economy w/E. S.	306-1033-ND	3.25	2.75	2.30	1.88	8L02-05-10
	DPST	5	10	0.5	1	Economy w/E. S. & Diode	306-1034-ND	3.41	2.89	2.42	1.97	8L02-05-11
	DPST	12	24	0.5	1	Economy	306-1035-ND	3.09	2.62	2.19	1.79	8L02-12-00
	DPST	12	24	0.5	1	Economy w/Diode	306-1036-ND	3.25	2.75	2.30	1.88	8L02-12-01
	DPST	12	24	0.5	1	Economy w/E. S.	306-1037-ND	3.25	2.75	2.30	1.88	8L02-12-10
	DPST	12	24	0.5	1	Economy w/E. S. & Diode	306-1038-ND	3.41	2.89	2.42	1.97	8L02-12-11
	DPST	24	11.1	0.5	1	Economy	306-1039-ND	3.25	2.75	2.30	1.88	8L02-24-00
	DPST	24	11.1	0.5	1	Economy w/Diode	306-1040-ND	3.41	2.89	2.42	1.97	8L02-24-01
	DPST	24	11.1	0.5	1	Economy w/E. S.	306-1041-ND	3.41	2.89	2.42	1.97	8L02-24-10
	DPST	24	11.1	0.5	1	Economy w/E. S. & Diode	306-1042-ND	3.61	3.06	2.56	2.09	8L02-24-11
	SPDT	5	10	0.25	0.5	Economy	306-1043-ND	4.45	3.77	3.16	2.57	8L41-05-001
	SPDT	5	10	0.25	0.5	Economy w/Diode	306-1044-ND	4.62	3.91	3.27	2.67	8L41-05-011
	SPDT	5	10	0.25	0.5	Economy w/E. S.	306-1045-ND	4.62	3.91	3.27	2.67	8L41-05-101
	SPDT	5	10	0.25	0.5	Economy w/E. S. & Diode	306-1046-ND	4.81	4.07	3.41	2.78	8L41-05-111
	SPDT	12	24	0.25	0.5	Economy	306-1047-ND	4.45	3.77	3.16	2.57	8L41-12-001
	SPDT	12	24	0.25	0.5	Economy w/Diode	306-1048-ND	4.62	3.91	3.27	2.67	8L41-12-011
	SPDT	12	24	0.25	0.5	Economy w/E. S.	306-1050-ND	4.62	3.91	3.27	2.67	8L41-12-101
	SPDT	12	24	0.25	0.5	Economy w/E. S. & Diode	306-1051-ND	4.81	4.07	3.41	2.78	8L41-12-111
	SPDT	24	11.1	0.25	0.5	Economy	306-1052-ND	4.62	3.91	3.27	2.67	8L41-24-001
	SPDT	24	11.1	0.25	0.5	Economy w/E. S.	306-1053-ND	4.81	4.07	3.41	2.78	8L41-24-101
	SPDT	24	11.1	0.25	0.5	Economy w/E. S. & Diode	306-1054-ND	4.97	4.21	3.52	2.87	8L41-24-111
6	SPST	5	10	0.5	1.5	Extended Lifetime	306-1055-ND	3.41	2.89	2.42	1.97	9001-05-00
	SPST	5	10	0.5	1.5	Extended Lifetime w/Diode	306-1056-ND	3.61	3.06	2.56	2.09	9001-05-01
	SPST	12	12	0.5	1.5	Extended Lifetime	306-1057-ND	3.41	2.89	2.42	1.97	9001-12-00
	SPST	12	12	0.5	1.5	Extended Lifetime w/Diode	306-1058-ND	3.61	3.06	2.56	2.09	9001-12-01
	SPST	5	10	0.5	1.5	50Ω Coaxial Shield	306-1059-ND	4.45	3.77	3.16	2.57	9002-05-00
	SPST	5	10	0.5	1.5	50Ω Coaxial Shield w/Diode	306-1060-ND	4.62	3.91	3.27	2.67	9002-05-01
	SPST	12	16	0.5	1.5	50Ω Coaxial Shield	306-1118-ND	4.45	3.77	3.16	2.57	9002-12-00
	SPST	12	12	0.5	1.5	50Ω Coaxial Shield w/Diode	306-1061-ND	4.62	3.91	3.27	2.67	9002-12-01
	SPST	5	10	0.5	1	Economy	306-1062-ND	1.37	1.16	.97	.79	9007-05-00
	SPST	5	10	0.5	1	Economy w/Diode	306-1063-ND	1.46	1.24	1.04	.85	9007-05-01
	SPST	12	12	0.5	1	Economy	306-1064-ND	1.37	1.16	.97	.79	9007-12-00
	SPST	5	10	0.5	1	Economy	306-1115-ND	1.56	1.32	1.11	.90	9081-05-00
	SPST	12	12	0.5	1	Economy	306-1116-ND	1.63	1.38	1.15	.94	9081-12-00
	SPST	24	12	0.5	1	Economy	306-1117-ND	1.72	1.46	1.22	1.00	9081-24-00
	SPST	5	10	0.5	1.0	With EMI Shield	306-1138-ND	1.63	1.38	1.15	.94	9081-05-10
	SPST	12	16	0.5	1.0	With EMI Shield	306-1139-ND	1.72	1.46	1.22	1.00	9081-12-10
	SPST	24	12	0.5	1.0	With EMI Shield	306-1140-ND	1.79	1.52	1.27	1.04	9081-24-10
	SPST	5	10	0.25	1	Miniature Sip	306-1065-ND	3.87	3.28	2.74	2.24	9091-05-00
	SPST	5	10	0.25	1	Miniature Sip w/Diode	306-1066-ND	4.00	3.39	2.83	2.31	9091-05-01
	SPST	12	12	0.25	1	Miniature Sip w/Diode	306-1067-ND	4.00	3.39	2.83	2.31	9091-12-01
7	SPST	5	10	0.25	0.5	With EMI Shield	306-1130-ND	6.76	5.72	4.79	3.90	9011-05-10
	SPST	5	10	0.25	0.5	With EMI Shield and Diode	306-1131-ND	6.99	5.92	4.95	4.04	9011-05-11
	SPST	12	16	0.25	0.5	With EMI Shield	306-1132-ND	7.05	5.97	5.00	4.07	9011-12-10
	SPST	12	16	0.25	0.5	With EMI Shield and Diode	306-1133-ND	7.28	6.16	5.16	4.20	9011-12-11
	SPST	5	10	0.5	1.5	With EMI Shield	306-1134-ND	5.49	4.65	3.89	3.17	9012-05-10
	SPST	5	10	0.5	1.5	With EMI Shield and Diode	306-1135-ND	5.72	4.84	4.05	3.30	9012-05-11
	SPST	12	16	0.5	1.5	With EMI Shield	306-1136-ND	5.79	4.90	4.10	3.34	9012-12-10
	SPST	12	16	0.5	1.5	With EMI Shield and Diode	306-1137-ND	6.01	5.09	4.26	3.47	9012-12-11
						Surface Mount						
8	SPST	5	20	0.5	1.5	SMT- J-Lead	306-1068-ND	6.18	5.23	4.37	3.57	9201-05-20
	SPST	5	20	0.5	1.5	50Ω Coaxial Shield, Gull Lead	306-1069-ND	6.37	5.39	4.51	3.68	9202-05-00
	SPST	5	20	0.5	1.5	50Ω Coaxial Shield, J-Lead	306-1070-ND	6.37	5.39	4.51	3.68	9202-05-20
9	SPST	5	20	0.5	1	SMT - Gull Lead	306-1071-ND	7.05	5.97	5.00	4.07	9401-05-00
	SPST	12	14.5	0.5	1	SMT - Gull Lead	306-1072-ND	7.05	5.97	5.00	4.07	9401-12-00
	SPST	5	25	0.5	1	50Ω Coaxial Shield - Gull Lead	306-1119-ND	7.57	6.41	5.36	4.37	9402-05-00
	SPST	5	20	0.5	1	50Ω Coaxial Shield, J-Lead	306-1073-ND	7.57	6.41	5.36	4.37	9402-05-20
	SPST	12	14.5	0.5	1	50Ω Coaxial Shield, Gull Lead	306-1074-ND	7.57	6.41	5.36	4.37	9402-12-00
	SPST	12	14.5	0.5	1	50Ω Coaxial Shield, J-Lead	306-1120-ND	7.57	6.41	5.36	4.37	9402-12-20
10	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1075-ND	7.49	6.48	5.55	4.76	9802-05-00
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1076-ND	7.49	6.48	5.55	4.76	9802-05-20
11	SPST	5	31	0.5	1.5	50Ω EMI Shield, Low Profile	306-1141-ND	5.95	5.04	4.21	3.44	9290-05-00
	SPST	12	20	0.5	1.5	50Ω EMI Shield, Low Profile	306-1142-ND	5.95	5.04	4.21	3.44	9290-12-00

Reed Relays

Fig. 1 Dip Reed Relays, Epoxy Molded



1-1A 1-1B 1-1C 1-2A

Fig. 2 Series 10 Reed Relays

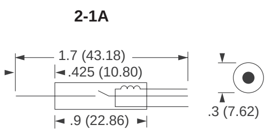


Fig. 3 Series 30 Reed Relays

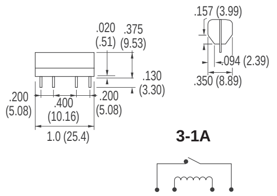


Fig. 4 Open-Line Reed Relays

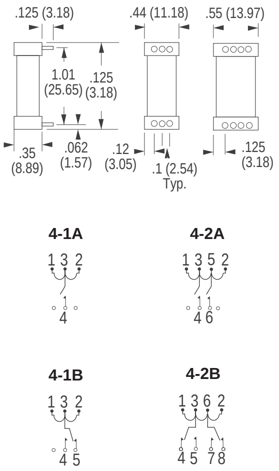


Fig. Form	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/ Dropout (VDC)	Max. Volt. (VDC)	Cur. Rtg. (A)	Cont. Res. (Ω)	Oper./ Release / Bounce Time (msec.)	Power Rtg. (W)	Ins. Res. (Ω)	Digi-Key Part No.	Price Each 1	10	50	100	EAC Part No.
Dip Reed Relays, Epoxy Molded															
1-1A	5	500	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z660-ND	3.87	3.28	2.74	2.24	D1A05A
	12	1000	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z661-ND	3.87	3.28	2.74	2.24	D1A12A
	24	2200	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z612-ND	3.90	3.30	2.76	2.25	D1A24A
1-2A	5	150	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z662-ND	5.69	4.82	4.03	3.29	D2A05A
	12	500	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z614-ND	5.69	4.82	4.03	3.29	D2A12A
	24	1750	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z615-ND	5.85	4.95	4.14	3.38	D2A24A
1-1B	5	450	4.0/0.5	100	.50	.20	.35/.5/.5	10	10^{10}	Z616-ND	5.69	4.82	4.03	3.29	D1B05A
	12	450	9.6/1.2	100	.50	.20	.35/.5/.5	10	10^{10}	Z617-ND	5.69	4.82	4.03	3.29	D1B12A
	24	1750	19.2/2.4	100	.50	.20	.35/.5/.5	10	10^{10}	Z618-ND	5.69	4.82	4.03	3.29	D1B24A
1-1C	5	200	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z663-ND	6.92	5.86	4.90	4.00	D1C05C
	12	500	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z664-ND	6.92	5.86	4.90	4.00	D1C12C
	24	1750	19.2/2.4	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z621-ND	7.15	6.05	5.06	4.13	D1C24C
Series 10 Reed Relays															
2-1A	3	250	2.25/0.3	200	.5	.10	.5/.25/—	5	10^{10}	Z622-ND	4.13	3.50	2.93	2.39	R1A3AHH
	5	700	3.75/0.5	200	.5	.10	.5/.25/—	5	10^{10}	Z623-ND	4.13	3.50	2.93	2.39	R1A5AHH
	12	2000	9.0/1.2	200	.5	.10	.5/.25/—	5	10^{10}	Z624-ND	4.13	3.50	2.93	2.39	R1A12AHH
	24	4000	18.0/2.4	200	.5	.10	.5/.25/—	5	10^{10}	Z625-ND	5.17	4.38	3.66	2.99	R1A24AHH
	3	30	2.25/0.3	300	2	.10	.5/.25/—	50	10^{10}	Z626-ND	4.13	3.50	2.93	2.39	P1A3A
	5	100	3.75/0.5	300	2	.10	.5/.25/—	50	10^{10}	Z627-ND	4.13	3.50	2.93	2.39	P1A5A
	12	500	9.0/1.2	300	2	.10	.5/.25/—	50	10^{10}	Z628-ND	4.13	3.50	2.93	2.39	P1A12A
	24	1000	18.0/2.4	300	2	.10	.5/.25/—	50	10^{10}	Z629-ND	5.17	4.38	3.66	2.99	P1A24A
Series 30 Reed Relays															
3-1A	5	500	3.8/0.5	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z530-ND	3.87	3.28	2.74	2.24	SD1A05A
	12	500	8.0/1.0	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z531-ND	3.87	3.28	2.74	2.24	SD1A12A
	24	2000	16.0/2.0	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z532-ND	4.13	3.50	2.93	2.39	SD1A24A
	5	500	3.8/0.5	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z533-ND	4.42	3.74	3.13	2.55	SD1A05D
	12	500	8.0/1.0	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z534-ND	4.19	3.55	2.97	2.42	SD1A12D
	24	2000	16.0/2.0	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z535-ND	4.13	3.50	2.93	2.39	SD1A24D
Open-Line Reed Relays															
4-1A	5	500	3.8/0.5	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z638-ND	6.21	5.26	4.40	3.59	20-1051-10
	12	500	8.0/1.0	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z639-ND	6.21	5.26	4.40	3.59	20-1121-10
	24	2000	16.0/2.0	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z640-ND	6.99	5.92	4.95	4.04	20-1241-10
4-2A	5	200	3.8/0.5	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z641-ND	7.90	6.69	5.59	4.56	20-2051-10
	12	440	8.0/1.0	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z642-ND	7.96	6.74	5.64	4.60	20-2121-10
	24	1750	16.0/2.0	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z643-ND	8.35	7.07	5.92	4.82	20-2241-10
4-1B	5	500	3.8/0.5	200	.5	.10	0.5/0.4/1.5	10	10^{10}	Z644-ND	7.41	6.42	5.51	4.71	20-1051-30
	12	500	8.0/1.0	200	.5	.10	0.5/0.4/1.5	10	10^{10}	Z645-ND	7.41	6.42	5.51	4.71	20-1121-30
	24	2000	16.0/2.0	200	.5	.10	0.5/0.4/1.5	10	10^{10}	Z646-ND	7.85	6.80	5.83	4.99	20-1241-30
4-2B	5	200	3.8/0.5	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z647-ND	10.97	9.50	8.15	6.97	20-2051-30
	12	310	8.0/1.0	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z648-ND	11.00	9.52	8.17	6.98	20-2121-30
	24	1250	16.0/2.0	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z649-ND	11.23	9.72	8.34	7.13	20-2241-30

Surface Mount Reed Relays

Fig. 1

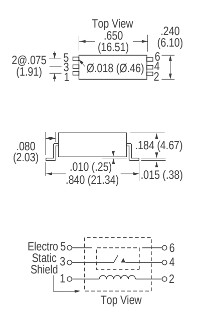


Fig. 2

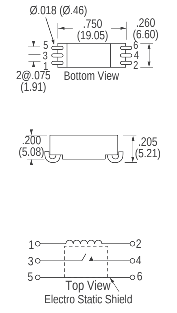


Fig. 3

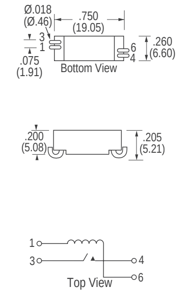


Fig. 4

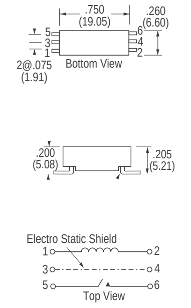


Fig. 5

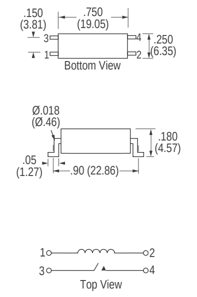


Fig. 6

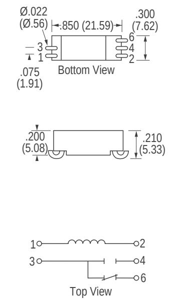
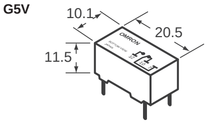


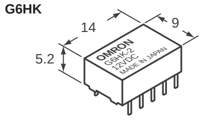
Fig.	Coil Voltage (VDC)	Coil Resistance (Ω)	Pickup/ Dropout (VDC)	Maximum Voltage (VDC)	Current Rating mA	Cont. Resistance (Ω)	Operate Time (msec.)	Ins. Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	EAC Part No.
1	4.5	150	3.5/0.5	250	500	.1	.35	$7x10^{12}$	Z650-ND	9.52	8.24	7.07	SMRR1-5-150C
2	5	150	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z651-ND	9.52	8.24	7.07	SMRR2-5-150C
3	5	150	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z652-ND	8.65	7.32	6.12	SMRR2-5-150E
4	5	150	3.8/0.5	250	500	.150	.35	$7x10^{12}$	Z653-ND	9.72	8.42	7.22	SMRR2-5-150F
5	5	250	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z654-ND	8.81	7.46	6.24	SMRR2-5-250
6	5	150	3.8/0.5	28	250	.2	.5	$7x10^{12}$	Z655-ND	10.56	9.14	7.84	SMRR3-5-150

Low Signal • Power PCB Relays

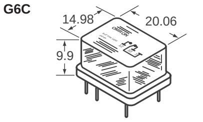
G5V



G6HK



G6C



G5C

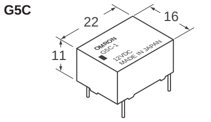


Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Rtg's. Resistive (A) 24 VDC	Contact Rtg's. Resistive (A) 115 VAC	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/Time (msec.)	Dim. (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Omron Part No.
							PC Mount Low Signal Relays							
1	DPDT†⋆	5	50	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z767-ND	2.88	2.59	2.30	2.07	G5V-2-DC5
	DPDT†⋆	12	288	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z768-ND	2.88	2.59	2.30	2.07	G5V-2-DC12
	DPDT†⋆	24	1152	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z769-ND	2.88	2.59	2.30	2.07	G5V-2-DC24
1	DPDT†⋆	5	70	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z770-ND	3.08	2.77	2.46	2.22	G5V-2-H-DC5
	DPDT†⋆	12	400	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z771-ND	3.08	2.77	2.46	2.22	G5V-2-H-DC12
	DPDT†⋆	24	1600	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z772-ND	3.08	2.77	2.46	2.22	G5V-2-H-DC24
1	DPDT	5	166.7	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z108-ND	3.18	2.86	2.54	2.29	G5V-2-H1-DC5
	DPDT	12	960	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z109-ND	3.18	2.86	2.54	2.29	G5V-2-H1-DC12
	DPDT	24	2880	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z110-ND	3.18	2.86	2.54	2.29	G5V-2-H1-DC24
2	SPDT†	5	167	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z773-ND	2.33	2.10	1.86	1.68	G5V-1-DC5
	SPDT†	12	960	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z774-ND	2.33	2.10	1.86	1.68	G5V-1-DC12
	SPDT†	24	3840	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z775-ND	2.33	2.10	1.86	1.68	G5V-1-DC24
1	DPDT†⋆	5	125	1	0.6	70/10/150	5/5	8.4 x 20.3 x 10.1	Z105-ND	4.68	4.21	3.74	3.37	G6A-234P-ST-US-DC5-BVOMR
	DPDT†⋆	12	720	1	0.6	70/10/150	5/5	8.4 x 20.3 x 10.1	Z106-ND	4.68	4.21	3.74	3.37	G6A-234P-ST-US-DC12
	DPDT†⋆	24	2880	1	0.6	70/10/150	5/5	8.4 x 20.3 x 10.1	Z107-ND	4.68	4.21	3.74	3.37	G6A-234P-ST-US-DC24
1	DPDT†⋆	3	45	2	0.5	70/10/150	5/3	8.4 x 20.3 x 10.1	Z122-ND	4.58	4.12	3.66	3.30	G6A-274P-ST-US-DC3
	DPDT†⋆	5	125	2	0.5	70/10/150	5/3	8.4 x 20.3 x 10.1	Z123-ND	4.58	4.12	3.66	3.30	G6A-274P-ST-US-DC5
	DPDT†⋆	12	720	2	0.5	70/10/150	5/3	8.4 x 20.3 x 10.1	Z124-ND	4.58	4.12	3.66	3.30	G6A-274P-ST-US-DC12
	DPDT†⋆	24	2880	2	0.5	70/10/150	5/3	8.4 x 20.3 x 10.1	Z125-ND	4.58	4.12	3.66	3.30	G6A-274P-ST-US-DC24
3	DPDT	5	125	1	0.5	70/10/150	5/5	7.9 x 16.0 x 9.9	Z706-ND	4.00	3.60	3.20	2.88	G5A-237P-DC5
	DPDT	12	720	1	0.5	70/10/150	5/5	7.9 x 16.0 x 9.9	Z707-ND	4.00	3.60	3.20	2.88	G5A-237P-DC12
	DPDT	24	2880	1	0.5	70/10/150	5/5	7.9 x 16.0 x 9.9	Z708-ND	4.13	3.72	3.30	2.97	G5A-237P-DC24
3	DPDT	5	125	1	0.5	70/10/150	5/5	8.0 x 16.0 x 9.9	Z942-ND	4.33	3.90	3.46	3.12	G5A-234P-DC5
	DPDT	12	720	1	0.5	70/10/150	5/5	8.0 x 16.0 x 9.9	Z943-ND	4.33	3.90	3.46	3.12	G5A-234P-DC12
	DPDT	24	2880	1	0.5	70/10/150	5/5	8.0 x 16.0 x 9.9	Z944-ND	4.33	3.90	3.46	3.12	G5A-234P-DC24
4	SPDT	5	63	2	0.4	70/10/190	5/5	8.0 x 16.0 x 9.9	Z761-ND	3.85	3.47	3.08	2.78	G6E-134P-L-ST-US-DC5
	SPDT	12	360	2	0.4	70/10/190	5/5	8.0 x 16.0 x 9.9	Z762-ND	3.85	3.47	3.08	2.78	G6E-134P-L-ST-US-DC12
	SPDT	24	1440	2	0.4	70/10/190	5/5	8.0 x 16.0 x 9.9	Z763-ND	3.85	3.47	3.08	2.78	G6E-134P-L-ST-US-DC24
4	SPDT†⋆	5	125	2	0.4	70/10/190	5/5	7.9 x 16.0 x 9.9	Z830-ND	4.03	3.63	3.22	2.90	G6E-134P-ST-US-DC5
	SPDT†⋆	12	720	2	0.4	70/10/190	5/5	7.9 x 16.0 x 9.9	Z831-ND	4.03	3.63	3.22	2.90	G6E-134P-ST-US-DC12
	SPDT†⋆	24	2880	2	0.4	70/10/190	5/5	7.9 x 16.0 x 9.9	Z832-ND	4.03	3.63	3.22	2.90	G6E-134P-ST-US-DC24
5	4PDT†⋆	5	69	1	0.3	70/10/150	7/5	8.4 x 35.4 x 10.1	Z940-ND	10.10	9.09	8.08	7.28	G6A-434P-STUS-DC5
	4PDT†⋆	12	400	1	0.3	70/10/150	7/5	8.4 x 35.4 x 10.1	Z206-ND	10.10	9.09	8.08	7.28	G6A-434P-ST-US-DC12
	4PDT†⋆	24	1600	1	0.3	70/10/150	7/5	8.4 x 35.4 x 10.1	Z941-ND	10.10	9.09	8.08	7.28	G6A-434P-STUS-DC24
							PC Mount Low Signal Relays — Latching Type							
6	DPDT⋆	5	139	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z749-ND	5.85	5.27	4.68	4.22	G6AK-234P-ST-US-DC5
	DPDT⋆	12	800	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z750-ND	4.68	4.21	3.74	3.37	G6AK-234P-ST-US-DC12
	DPDT⋆	24	3200	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z751-ND	5.85	5.27	4.68	4.22	G6AK-234P-ST-US-DC24
—	SPDT†⋆	5	125	2	0.4	70/70/190	5/5	7.9 x 16.0 x 9.9	Z833-ND	5.20	4.68	4.16	3.75	G6EK-134P-ST-US-DC5
	SPDT†⋆	12	720	2	0.4	70/70/190	5/5	7.9 x 16.0 x 9.9	Z834-ND	5.20	4.68	4.16	3.75	G6EK-134P-ST-US-DC12
	SPDT†⋆	24	2880	2	0.4	70/70/190	5/5	7.9 x 16.0 x 9.9	Z835-ND	5.40	4.86	4.32	3.89	G6EK-134P-ST-US-DC24
7	DPDT†	5	125	1	0.5	75/75/190	3/2	5.0 x 14.0 x 9	Z965-ND	4.85	4.37	3.88	3.50	G6HK-2-DC5
	DPDT†	12	720	1	0.5	75/75/190	3/2	5.0 x 14.0 x 9	Z966-ND	4.85	4.37	3.88	3.50	G6HK-2-DC12
	DPDT†	24	1920	1	0.5	75/75/190	3/2	5.0 x 14.0 x 9	Z967-ND	5.23	4.71	4.18	3.77	G6HK-2-DC24
							High Efficiency Power Relays (Low Power Consumption with High Coil Resistance)							
8	SPST-NO†	5	125	8	8	70/10/130	10/10	12.44 x 20.0 x 9.9	Z712-ND	4.95	4.46	3.96	3.57	G6B-1174P-US-DC5
	SPST-NO†	12	720	8	8	70/10/130	10/10	12.44 x 20.0 x 9.9	Z713-ND	4.95	4.46	3.96	3.57	G6B-1174P-US-DC12
	SPST-NO†	24	2880	8	8	70/10/130	10/10	12.44 x 20.0 x 9.9	Z714-ND	5.13	4.62	4.10	3.69	G6B-1174P-US-DC24
9	SPST-NO†	5	125	10	10	70/10/130	10/10	10.2 x 20.0 x 15.0	Z715-ND	4.98	4.48	3.98	3.59	G6C-1114P-US-DC5
	SPST-NO†	12	720	10	10	70/10/130	10/10	10.2 x 20.0 x 15.0	Z716-ND	4.98	4.48	3.98	3.59	G6C-1114P-US-DC12
	SPST-NO†	24	2880	10	10	70/10/130	10/10	10.2 x 20.0 x 15.0	Z948-ND	5.13	4.62	4.10	3.69	G6C-1114P-US-DC24
10	SPST-NO/NC	5	125	8	8	70/10/130	10/10	9.9 x 20.0 x 15.0	Z949-ND	5.73	5.16	4.58	4.13	G6C-2114P-US-DC5
	SPST-NO/NC	12	720	8	8	70/10/130	10/10	9.9 x 20.0 x 15.0	Z950-ND	5.73	5.16	4.58	4.13	G6C-2114P-US-DC12
	SPST-NO/NC	24	2880	8	8	70/10/130	10/10	9.9 x 20.0 x 15.0	Z951-ND	5.90	5.31	4.72	4.25	G6C-2114P-US-DC24
—	PC Mount Relay Socket for G6C Series							15 x 23 x 10.79	Z126-ND	1.90	1.71	1.52	1.37	P6C-06P
11	SPST-NO⋆	5	125	10	15	75/10/110	10/10	11 x 22 x 16	Z960-ND	3.43	3.09	2.74	2.47	G5CE-1-DC5
	SPST-NO⋆	12	720	10	15	75/10/110	10/10	11 x 22 x 16	Z779-ND	3.43	3.09	2.74	2.47	G5CE-1-DC12
	SPST-NO⋆	24	2880	10	15	75/10/110	10/10	11 x 22 x 16	Z780-ND	3.55	3.20	2.84	2.56	G5CE-1-DC24
	SPST-NO†	5	125	10	10	75/10/130	10/10	11 x 22 x 16	Z1048-ND	3.98	3.58	3.18	2.87	G5C-14-DC5
	SPST-NO†	12	720	10	10	75/10/130	10/10	11 x 22 x 16	Z1049-ND	3.98	3.58	3.18	2.87	G5C-14-DC12
	SPST-NO†	24	2880	10	10	75/10/130	10/10	11 x 22 x 16	Z1050-ND	3.98	3.58	3.18	2.87	G5C-14-DC24
12	SPST-NO†⋆	5	125	5	5	70/10/130	10/10	9.9 x 20.1 x 9.9	Z945-ND	4.13	3.72	3.30	2.97	G6B-1114P-US-DC5
	SPST-NO†⋆	6	180	5	5	70/10/130	10/10	9.9 x 20.1 x 9.9	Z752-ND	4.13	3.72	3.30	2.97	G6B-1114P-US-DC6
	SPST-NO†⋆	12	720	5	5	70/10/130	10/10	9.9 x 20.1 x 9.9	Z753-ND	4.13	3.72	3.30	2.97	G6B-1114P-US-DC12
	SPST-NO†⋆	24	2880	5	5	70/10/130	10/10	9.9 x 20.1 x 9.9	Z754-ND	4.25	3.83	3.40	3.06	G6B-1114P-US-DC24
13	SPST-NO,	5	83	5	5	80/10/110	10/10	9.9 x 20.1 x 9.9	Z946-ND	5.05	4.55	4.04	3.64	G6B-2114P-US-DC5
	SPST-NC†⋆	6	120	5	5	80/10/110	10/10	9.9 x 20.1 x 9.9	Z755-ND	5.05	4.55	4.04	3.64	G6B-2114P-US-DC6

† Sealed case. ⋆ Meets FCC Part 68 standards.

(Continued)

All Relays UL/CSA approved

9135B-ND Omron Relay Data Book $2.95

Mounting Hole Pattern & Connection Diagram
“Bottom view unless otherwise noted”

Fig. 1 Pin #1 is Positive

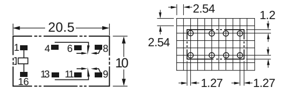


Fig. 2

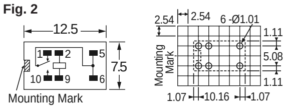


Fig. 3

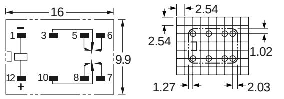


Fig. 4

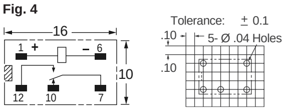


Fig. 5

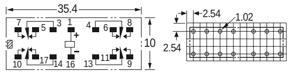


Fig. 6

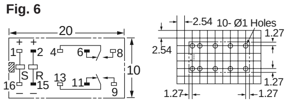


Fig. 7

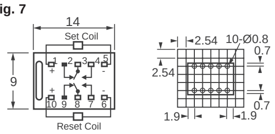


Fig. 8

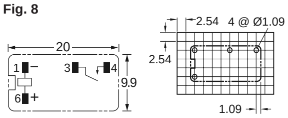


Fig. 9

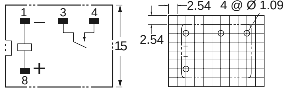


Fig. 10

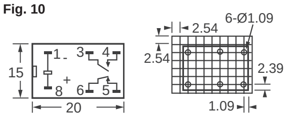


Fig. 11

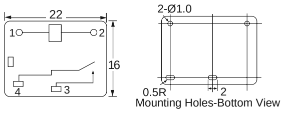
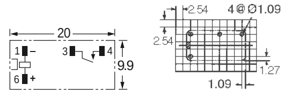


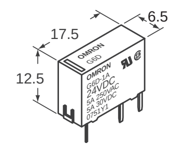
Fig. 12



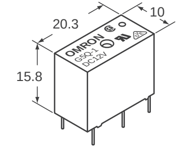
OMRON Low Signal • Power PCB Relays *(Cont.)*

Mounting Hole Pattern & Connection Diagram
“Bottom view unless otherwise noted”

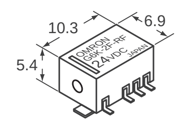
G6D



G5Q



G6K



G6JU-2P

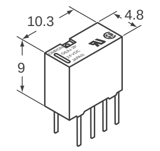


Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Rtg's. Resistive (A) 30 VDC	115 VAC	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/Time (msec.)	Dim. (mm) H x L x W	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
13	SPST-NO/NC	12	480	5	5	80/10/110	10/10	9.9 x 20.1 x 9.9	Z756-ND	5.05	4.55	4.04	3.64	G6B-2114P-US-DC12
	SPST-NO/NC†⋆	24	1920	5	5	80/10/110	10/10	9.9 x 20.1 x 9.9	Z757-ND	5.28	4.75	4.22	3.80	G6B-2114P-US-DC24
	DPST-NO	5	83	5	5	80/10/110	10/10	9.9 x 20.1 x 9.9	Z947-ND	5.05	4.55	4.04	3.64	G6B-2214P-US-DC5
		6	120	5	5	80/10/110	10/10	9.9 x 20.1 x 9.9	Z758-ND	5.05	4.55	4.04	3.64	G6B-2214P-US-DC6
		12	480	5	5	80/10/110	10/10	9.9 x 20.1 x 9.9	Z759-ND	5.05	4.55	4.04	3.64	G6B-2214P-US-DC12
		24	1920	5	5	80/10/110	10/10	9.9 x 20.1 x 9.9	Z760-ND	5.28	4.75	4.22	3.80	G6B-2214P-US-DC24
—	PC Mount Relay Socket for G6B Series SPST							10.16 x 23 x 9.9	Z993-ND	1.50	1.35	1.20	1.08	P6B-04P
—	PC Mount Relay Socket for G6B Series DPST							10.16 x 23 x 9.9	Z994-ND	1.93	1.74	1.54	1.39	P6B-26P
—	SPST-NO†	5	125	5	5	70/10/130	10/5	12.5 x 17.5 x 6.5	Z856-ND	4.40	3.96	3.52	3.17	G6D-1A-DC5
	SPST-NO†	12	720	5	5	70/10/130	10/5	12.5 x 17.5 x 6.5	Z857-ND	4.40	3.96	3.52	3.17	G6D-1A-DC12
	SPST-NO†	24	2880	5	5	70/10/130	10/5	12.5 x 17.5 x 6.5	Z858-ND	4.73	4.26	3.78	3.41	G6D-1A-DC24
14	SPST	12	720	5	10	75/5/190	10/5	15.8 x 20.3 x 10.3	Z219-ND	2.15	1.94	1.72	1.55	G5Q-1A-DC12
	SPST	24	2880	5	10	75/5/190	10/5	15.8 x 20.3 x 10.3	Z220-ND	2.15	1.94	1.72	1.55	G5Q-1A-DC24
	SPDT	12	360	5	10	75/5/190	10/5	15.8 x 20.3 x 10.3	Z221-ND	2.25	2.03	1.80	1.62	G5Q-1-DC12
	SPDT	24	1440	5	10	75/5/190	10/5	15.8 x 20.3 x 10.3	Z222-ND	2.25	2.03	1.80	1.62	G5Q-1-DC24
	SPST†	12	720	5	10	75/5/190	10/5	15.8 x 20.3 x 10.3	Z223-ND	2.30	2.07	1.84	1.66	G5Q-1A4-DC12
	SPST†	24	2880	5	10	75/5/190	10/5	15.8 x 20.3 x 10.3	Z224-ND	2.30	2.07	1.84	1.66	G5Q-1A4-DC24
	SPDT†	12	720	5	10	75/5/190	10/5	15.8 x 20.3 x 10.3	Z225-ND	2.40	2.16	1.92	1.73	G5Q-14-DC12
	SPDT†	24	2880	5	10	75/5/190	10/5	15.8 x 20.3 x 10.3	Z226-ND	2.40	2.16	1.92	1.73	G5Q-14-DC24
15	SPDT	12	360	5	5	75/5/110	10/5	15.5 x 20 x 10	Z991-ND	1.40	1.26	1.12	1.01	G5S-1-DC12
	SPDT	24	1440	5	5	75/5/110	10/5	15.5 x 20 x 10	Z992-ND	1.55	1.40	1.24	1.12	G5S-1-DC24
Ultracompact — TELECOM (SMT)														
17	DPDT	4.5	194	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z111-ND	3.80	3.42	3.04	2.74	G6K-2F-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z112-ND	3.80	3.42	3.04	2.74	G6K-2F-DC5
	DPDT	12	1407	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z113-ND	3.80	3.42	3.04	2.74	G6K-2F-DC12
	DPDT	24	5220	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z114-ND	4.30	3.87	3.44	3.10	G6K-2F-DC24
17	DPDT	4.5	194	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z127-ND	3.70	3.33	2.96	2.67	G6K-2F-Y-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z128-ND	3.70	3.33	2.96	2.67	G6K-2F-Y-DC5
	DPDT	12	1407	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z129-ND	3.70	3.33	2.96	2.67	G6K-2F-Y-DC12
	DPDT	24	5220	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z130-ND	3.70	3.33	2.96	2.67	G6K-2F-Y-DC24
17	DPDT	4.5	194	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z135-ND	3.70	3.33	2.96	2.67	G6K-2G-Y-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z136-ND	3.70	3.33	2.96	2.67	G6K-2G-Y-DC5
	DPDT	12	1407	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z137-ND	3.70	3.33	2.96	2.67	G6K-2G-Y-DC12
	DPDT	24	5220	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z138-ND	3.70	3.33	2.96	2.67	G6K-2G-Y-DC24
16	DPDT	4.5	140.4	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1207-ND	4.10	3.69	3.28	2.96	G6J-2FL-DC4.5
	DPDT	5	171.1	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1208-ND	4.10	3.69	3.28	2.96	G6J-2FL-DC5
	DPDT	12	979.8	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1209-ND	4.10	3.69	3.28	2.96	G6J-2FL-DC12
	DPDT	24	2620	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1210-ND	4.10	3.69	3.28	2.96	G6J-2FL-DC24
16	DPDT	4.5	140.4	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1215-ND	4.10	3.69	3.28	2.96	G6J-2FS-DC4.5
	DPDT	5	171.1	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1216-ND	4.10	3.69	3.28	2.96	G6J-2FS-DC5
	DPDT	12	979.8	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1217-ND	4.10	3.69	3.28	2.96	G6J-2FS-DC12
	DPDT	24	2620	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1218-ND	4.10	3.69	3.28	2.96	G6J-2FS-DC24
20	SPST	3	62.5	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1230-ND	1.75	1.58	1.40	1.26	G6L-1F-DC3
	SPST	4.5	140.4	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1231-ND	1.75	1.58	1.40	1.26	G6L-1F-DC4.5
	SPST	5	171.1	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1232-ND	1.75	1.58	1.40	1.26	G6L-1F-DC5
	SPST	12	979.8	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1233-ND	1.75	1.58	1.40	1.26	G6L-1F-DC12
	SPST	24	2504	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z2040-ND	2.28	2.05	1.82	1.64	G6L-1F-DC24
Ultracompact — TELECOM Latching														
16	DPDT	4.5	207.4	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1211-ND	4.20	3.78	3.36	3.03	G6JU-2FL-DC4.5
	DPDT	5	245.3	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1212-ND	4.20	3.78	3.36	3.03	G6JU-2FL-DC5
	DPDT	12	1309	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1213-ND	4.20	3.78	3.36	3.03	G6JU-2FL-DC12
	DPDT	24	4430	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1214-ND	4.20	3.78	3.36	3.03	G6JU-2FL-DC24
16	DPDT	4.5	207.4	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1219-ND	4.20	3.78	3.36	3.03	G6JU-2FS-DC4.5
	DPDT	5	245.3	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1220-ND	4.20	3.78	3.36	3.03	G6JU-2FS-DC5
	DPDT	12	1309	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1221-ND	4.20	3.78	3.36	3.03	G6JU-2FS-DC12
	DPDT	24	4430	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1222-ND	4.20	3.78	3.36	3.03	G6JU-2FS-DC24
16	DPDT	4.5	207.4	1	0.3	75/75/150	3/3	9 x 10.3 x 4.8	Z1203-ND	4.20	3.78	3.36	3.03	G6JU-2P-DC4.5
	DPDT	5	245.3	1	0.3	75/75/150	3/3	9 x 10.3 x 4.8	Z1204-ND	4.20	3.78	3.36	3.03	G6JU-2P-DC5
	DPDT	12	1309	1	0.3	75/75/150	3/3	9 x 10.3 x 4.8	Z1205-ND	4.20	3.78	3.36	3.03	G6JU-2P-DC12
	DPDT	24	4430	1	0.3	75/75/150	3/3	9 x 10.3 x 4.8	Z1206-ND	4.20	3.78	3.36	3.03	G6JU-2P-DC24

† Sealed case. ⋆ Meets FCC Part 68 standards.

(Continued)

All Relays UL/CSA approved

9135B-ND Omron Relay Data Book $2.95

Fig. 13

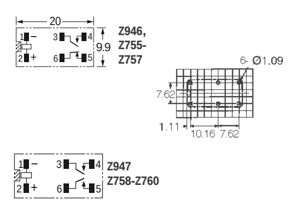


Fig. 14

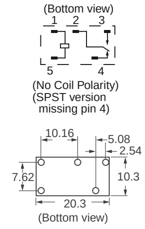


Fig. 15

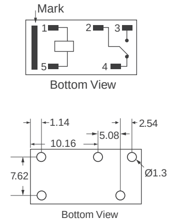


Fig. 16

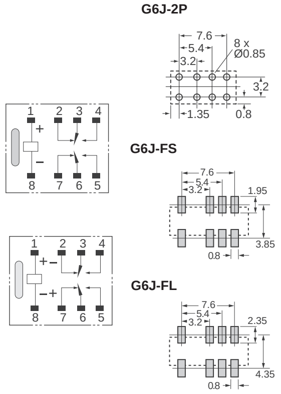
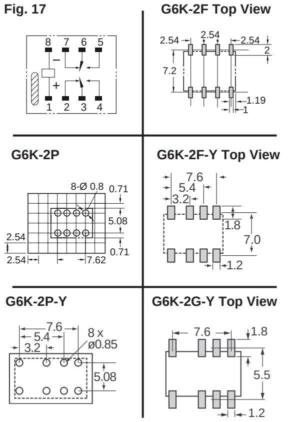
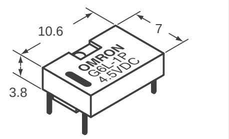


Fig. 17

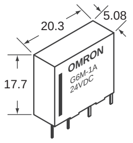


OMRON Low Signal • Power PCB Relays *(Cont.)*

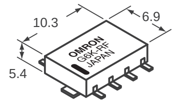
G6L



G6M



G6K-RF



G6H

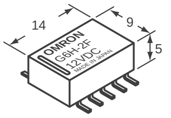


Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Rtg's. Resistive (A) 30 VDC	Contact Rtg's. Resistive (A) 115 VAC	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/Time (msec.)	Dim. (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Omron Part No.
Ultracompact — TELECOM (Thru-hole)														
17	DPDT	4.5	194	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z115-ND	4.30	3.87	3.44	3.10	G6K-2P-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z116-ND	3.80	3.42	3.04	2.74	G6K-2P-DC5
	DPDT	12	1407	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z117-ND	3.80	3.42	3.04	2.74	G6K-2P-DC12
	DPDT	24	5220	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z118-ND	4.30	3.87	3.44	3.10	G6K-2P-DC24
17	DPDT	4.5	194	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z131-ND	3.70	3.33	2.96	2.67	G6K-2P-Y-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z132-ND	3.70	3.33	2.96	2.67	G6K-2P-Y-DC5
	DPDT	12	1407	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z133-ND	3.70	3.33	2.96	2.67	G6K-2P-Y-DC12
	DPDT	24	5220	1	0.3	75/5/200	3/3	5 x 10 x 6.5	Z134-ND	3.70	3.33	2.96	2.67	G6K-2P-Y-DC24
16	DPDT	4.5	140.4	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1199-ND	4.10	3.69	3.28	2.96	G6J-2P-DC4.5
	DPDT	5	171.1	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1200-ND	4.10	3.69	3.28	2.96	G6J-2P-DC5
	DPDT	12	979.8	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1201-ND	4.10	3.69	3.28	2.96	G6J-2P-DC12
	DPDT	24	2620	1	0.3	75/10/150	3/3	9 x 10.3 x 4.8	Z1202-ND	4.10	3.69	3.28	2.96	G6J-2P-DC24
20	SPST	3	50	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1226-ND	1.75	1.58	1.40	1.26	G6L-1P-DC3
	SPST	4.5	112.5	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1227-ND	1.75	1.58	1.40	1.26	G6L-1P-DC4.5
	SPST	5	139	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1228-ND	1.75	1.58	1.40	1.26	G6L-1P-DC5
	SPST	12	800	1@24DC	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1229-ND	1.75	1.58	1.40	1.26	G6L-1P-DC12
	SPST	24	2504	1@24DC	0.3	75/10/130	5/5	4.0 x 10.6 x 7	Z2041-ND	2.05	1.85	1.64	1.48	G6L-1P-DC24
18	SPST	12	1200	3	3A@250VAC	70/10/160	10/5	17.5 x 20 x 5	Z2042-ND	4.50	4.05	3.60	3.24	G6M-1A-DC12
	SPST	24	4800	3	3A@250VAC	70/10/160	10/5	17.5 x 20 x 5	Z2043-ND	4.85	4.37	3.88	3.50	G6M-1A-DC24
	SPST	5	208	3	3A@250VAC	70/10/160	10/5	17.5 x 20 x 5	Z2044-ND	4.50	4.05	3.60	3.24	G6M-1A-DC5
Ultracompact, Ultrasensitive DPDT Relays (Low Power Consumption with High Coil Resistance)														
19	DPDT⋆	5	178	1	0.5	75/10/170	2/1	5.0 x 14.0 x 9.0	Z740-ND	4.00	3.60	3.20	2.88	G6H-2-DC5
	DPDT⋆	12	1028	1	0.5	75/10/170	2/1	5.0 x 14.0 x 9.0	Z741-ND	4.00	3.60	3.20	2.88	G6H-2-DC12
	DPDT⋆	24	2880	1	0.5	75/10/170	2/1	5.0 x 14.0 x 9.0	Z742-ND	5.03	4.53	4.02	3.62	G6H-2-DC24
Surface Mountable (IR, Vapor Phase and DWS Solderable) L-Style Leads														
21	DPDT	5	178	1	0.5	75/10/120	3/2	5.2 x 14.0 x 9.0	Z827-ND	5.93	5.34	4.74	4.27	G6H-2F-DC5
	DPDT	12	1028	1	0.5	75/10/120	3/2	5.2 x 14.0 x 9.0	Z828-ND	5.93	5.34	4.74	4.27	G6H-2F-DC12
	DPDT	24	2880	1	0.5	75/10/120	3/2	5.2 x 14.0 x 9.0	Z829-ND	6.73	6.06	5.38	4.85	G6H-2F-DC24
22	DPDT	5	178	2@30AC	0.5	75/10/200	4/4	7.3 x 14.8 x 9.2	Z888-ND	4.48	4.03	3.58	3.23	G6S-2F-DC5
	DPDT	12	1028	2@30AC	0.5	75/10/200	4/4	7.3 x 14.8 x 9.2	Z889-ND	4.48	4.03	3.58	3.23	G6S-2F-DC12
	DPDT	24	2880	2@30AC	0.5	75/10/200	4/4	7.3 x 14.8 x 9.2	Z890-ND	5.10	4.59	4.08	3.68	G6S-2F-DC24
22	DPDT	5	178	2@30AC	0.5	75/10/200	4/4	7.3 x 14.8 x 9.2	Z891-ND	4.48	4.03	3.58	3.23	G6S-2G-DC5
	DPDT	12	1028	2@30AC	0.5	75/10/200	4/4	7.3 x 14.8 x 9.2	Z892-ND	4.48	4.03	3.58	3.23	G6S-2G-DC12
	DPDT	24	2880	2@30AC	0.5	75/10/200	4/4	7.3 x 14.8 x 9.2	Z893-ND	5.10	4.59	4.08	3.68	G6S-2G-DC24
High Frequency — Isolation of 68dB (typ.), 900MHz or 2GHZ														
23	SPDT†⋆	5	83	.01@24AC/DC		75/10/130	10/5	10.0 x 20.5 x 11.5	Z723-ND	6.15	5.68	5.33	4.71	G5Y-1-DC5
	SPDT†⋆	12	480	.01@24AC/DC		75/10/130	10/5	9.0 x 20.5 x 11.5	Z724-ND	6.15	5.68	5.33	4.71	G5Y-1-DC12
	SPDT†⋆	24	1920	.01@24AC/DC		75/10/130	10/5	9.0 x 20.5 x 11.5	Z725-ND	6.15	5.68	5.33	4.71	G5Y-1-DC24
High Frequency — 900MHz, 1GHz, or 2.5GHz														
24	SPDT	5	125	.01@30AC/DC		75/10/150	10/5	9.2 x 20 x 11.7	Z119-ND	4.20	3.78	3.36	3.03	G6Y-1-DC5
	SPDT	12	720	.01@30AC/DC		75/10/150	10/5	9.2 x 20 x 11.7	Z120-ND	4.20	3.78	3.36	3.03	G6Y-1-DC12
	SPDT	24	2880	.01@30AC/DC		75/10/150	10/5	9.2 x 20 x 11.7	Z121-ND	4.20	3.78	3.36	3.03	G6Y-1-DC24
25	DPDT	3	91	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2035-ND	25.30	22.77	20.24	18.22	G6K-2F-RF-DC3
	DPDT	4.5	194	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2036-ND	25.30	22.77	20.24	18.22	G6K-2F-RF-DC4.5
	DPDT	5	237	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2037-ND	25.30	22.77	20.24	18.22	G6K-2F-RF-DC5
	DPDT	6	341	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2038-ND	25.30	22.77	20.24	18.22	G6K-2F-RF-DC6
	DPDT	9	795	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2039-ND	25.30	22.77	20.24	18.22	G6K-2F-RF-DC9
	DPDT	12	1315	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2033-ND	25.30	22.77	20.24	18.22	G6K-2F-RF-DC12
	DPDT	24	5220	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2034-ND	25.30	22.77	20.24	18.22	G6K-2F-RF-DC24
26	SPDT	4.5	101	.01@30AC/DC		80/10/150	10/10	9.2 x 20 x 9.4	Z2047-ND	112.50	101.25	90.00	81.00	G6W-1F-DC4.5
	SPDT	12	720	.01@30AC/DC		80/10/150	10/10	9.2 x 20 x 9.4	Z2045-ND	112.50	101.25	90.00	81.00	G6W-1F-DC12
	SPDT	24	2880	.01@30AC/DC		80/10/150	10/10	9.2 x 20 x 9.4	Z2046-ND	112.50	101.25	90.00	81.00	G6W-1F-DC24
27	SPDT	4.5	101	.01@30AC/DC		80/10/150	10/10	8.9 x 20 x 9.4	Z2050-ND	112.50	101.25	90.00	81.00	G6W-1P-DC4.5
	SPDT	12	720	.01@30AC/DC		80/10/150	10/10	8.9 x 20 x 9.4	Z2048-ND	112.50	101.25	90.00	81.00	G6W-1P-DC12
	SPDT	24	2880	.01@30AC/DC		80/10/150	10/10	8.9 x 20 x 9.4	Z2049-ND	112.50	101.25	90.00	81.00	G6W-1P-DC24

† Sealed case. ⋆ Meets FCC. Part 68 standards.

All Relays UL/CSA approved

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Mounting Hole Pattern & Connection Diagram
"Bottom view unless otherwise noted"

Fig. 18 G6M

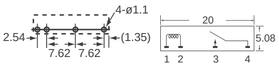


Fig. 19

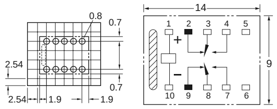


Fig. 20 G6L

Top View

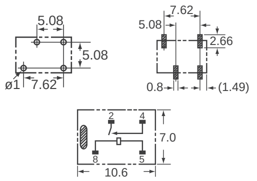


Fig. 21 Surface Mount **Top View**

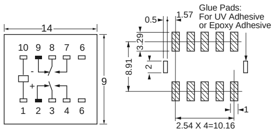
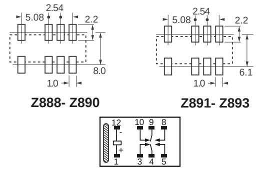


Fig. 22 Surface Mount **Top View**



Z888- Z890 Z891- Z893

Fig. 23

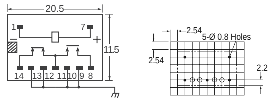


Fig. 24

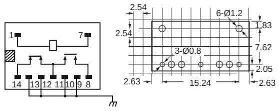


Fig. 25 G6K

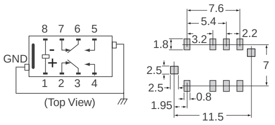


Fig. 26 G6W1F

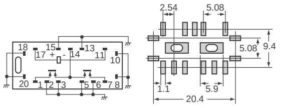
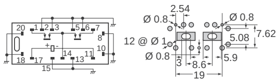


Fig. 27 G6W1P



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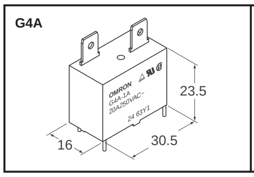
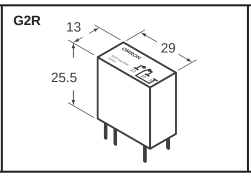
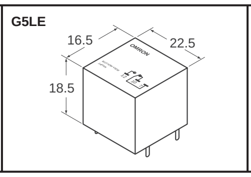
G4A



G2R



G5LE



G6RN

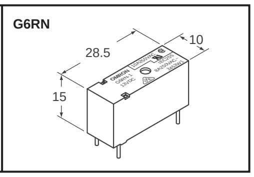


Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Rtg's. Resistive (A) 24 VDC	Contact Rtg's. Resistive (A) 115 VAC	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/Time (msec.)	Dim. (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Omron Part No.
	PC Mount Power Relays with Quick-Connect Terminals													
1	SPST-NO	12	160	20	20	70/10/110	20/10	23.5 x 30.5 x 16	Z952-ND	5.78	5.20	4.62	4.16	G4A-1A-E-DC12
	SPST-NO	24	640	20	20	70/10/110	20/10	23.5 x 30.5 x 16	Z953-ND	5.78	5.20	4.62	4.16	G4A-1A-E-DC24
2	SPDT	12	135	15	15	80/10/110	20/20	29 x 50 x 29	Z956-ND	9.33	8.40	7.46	6.72	G4B-112T1CUS-DC12
	SPDT	24	480	15	15	80/10/110	20/20	29 x 50 x 29	Z957-ND	9.33	8.40	7.46	6.72	G4B-112T1CUS-DC24
	SPDT	24VAC	260	15	15	80/30/110	20/20	29 x 50 x 29	Z958-ND	9.33	8.40	7.46	6.72	G4B-112T1CUS-AC24
	SPDT	120VAC	6500	15	15	80/30/110	20/20	29 x 50 x 29	Z959-ND	9.33	8.40	7.46	6.72	G4B-112T1CUS-AC120
2	SPST-NO	12	135	15	15	80/10/110	20/20	29 x 50 x 29	Z196-ND	8.75	7.88	7.00	6.30	G4B-112TUS-DC12
	SPST-NO	24	480	15	15	80/10/110	20/20	29 x 50 x 29	Z197-ND	8.75	7.88	7.00	6.30	G4B-112TUS-DC24
	SPST-NO	120VAC	6500	15	15	80/30/110	20/20	29 x 50 x 29	Z198-ND	8.75	7.88	7.00	6.30	G4B-112TUS-AC120
—	SPDT	5	47	10	10	70/15/110	15/5	25.5 x 29 x 13	Z850-ND	4.83	4.35	3.86	3.48	G2R-1S-DC5
	SPDT	12	275	10	10	70/15/110	15/5	25.5 x 29 x 13	Z851-ND	4.83	4.35	3.86	3.48	G2R-1S-DC12
	SPDT	24	1100	10	10	70/15/110	15/5	25.5 x 29 x 13	Z852-ND	4.83	4.35	3.86	3.48	G2R-1S-DC24
	SPDT	24VAC	260	10	10	80/30/110	15/10	25.5 x 29 x 13	Z853-ND	6.43	5.79	5.14	4.63	G2R-1S-AC24
	SPDT	120VAC	6500	10	10	80/30/110	15/10	25.5 x 29 x 13	Z854-ND	7.03	6.33	5.62	5.06	G2R-1S-AC120
—	DPDT	5	47	5	5	70/15/110	15/5	25.5 x 29 x 13	Z199-ND	5.65	5.09	4.52	4.07	G2R-2S-DC5
	DPDT	12	275	5	5	70/15/110	15/5	25.5 x 29 x 13	Z200-ND	5.50	4.95	4.40	3.96	G2R-2S-DC12
	DPDT	24	1100	5	5	70/15/110	15/5	25.5 x 29 x 13	Z201-ND	5.50	4.95	4.40	3.96	G2R-2S-DC24
	DPDT	48	4170	5	5	70/15/110	15/5	25.5 x 29 x 13	Z202-ND	5.65	5.09	4.52	4.07	G2R-2S-DC48
	DPDT	24VAC	260	5	5	80/30/110	15/10	25.5 x 29 x 13	Z203-ND	7.15	6.44	5.72	5.15	G2R-2S-AC24
	DPDT	120VAC	6500	5	5	80/30/110	15/10	25.5 x 29 x 13	Z204-ND	7.70	6.93	6.16	5.55	G2R-2S-AC120
	DPDT	220VAC	22000	5	5	80/30/110	15/5	25.5 x 29 x 13	Z205-ND	12.75	11.48	10.20	9.18	G2R-2S-AC220
—	Track Mounted Socket for G2R-1S Series							59 x 85 x 15	Z855-ND	3.65	3.29	2.92	2.63	P2RF-05-E
—	Track Mounted Socket for G2R-2S Series							59 x 85 x 15	Z207-ND	6.03	5.43	4.82	4.34	P2RF-08-E
—	PC Mount Relay Socket for G2R-1S Series							35.5 x 14.47 x 7.11	Z995-ND	2.05	1.85	1.64	1.48	P2R-05P
	PC Mount Power Relays													
3	SPST-NO	5	62.5	12	12	70/10/130	7/2	16 x 29 x 13	Z139-ND	2.70	2.43	2.16	1.95	G2RL-1A-DC5
	SPST-NO	12	360	12	12	70/10/130	7/2	16 x 29 x 13	Z140-ND	2.70	2.43	2.16	1.95	G2RL-1A-DC12
	SPST-NO	24	1440	12	12	70/10/130	7/2	16 x 29 x 13	Z141-ND	2.70	2.43	2.16	1.95	G2RL-1A-DC24
3	SPDT	5	62.5	12	12	70/10/130	7/2	16 x 29 x 13	Z142-ND	3.40	3.06	2.72	2.45	G2RL-14-DC5
	SPDT	12	360	12	12	70/10/130	7/2	16 x 29 x 13	Z143-ND	3.40	3.06	2.72	2.45	G2RL-14-DC12
	SPDT	24	1440	12	12	70/10/130	7/2	16 x 29 x 13	Z144-ND	3.40	3.06	2.72	2.45	G2RL-14-DC24
	SPDT	48	5358	12	12	70/10/130	7/2	16 x 29 x 13	Z145-ND	3.78	3.40	3.02	2.72	G2RL-14-DC48
4	DPDT	5	62.5	8	8	70/10/130	7/2	16 x 29 x 13	Z146-ND	4.03	3.63	3.22	2.90	G2RL-24-DC5
	DPDT	12	360	8	8	70/10/130	7/2	16 x 29 x 13	Z147-ND	4.03	3.63	3.22	2.90	G2RL-24-DC12
	DPDT	24	1440	8	8	70/10/130	7/2	16 x 29 x 13	Z148-ND	4.03	3.63	3.22	2.90	G2RL-24-DC24
	DPDT	48	5358	8	8	70/10/130	7/2	16 x 29 x 13	Z149-ND	4.38	3.94	3.50	3.15	G2RL-24-DC48
3	SPDT†	5	47	10	10	70/15/110	15/5	25.5 x 29 x 13	Z743-ND	3.40	3.06	2.72	2.45	G2R-14-DC5
	SPDT†	12	275	10	10	70/15/110	15/5	25.5 x 29 x 13	Z744-ND	3.38	3.04	2.70	2.43	G2R-14-DC12
	SPDT†	24	1100	10	10	70/15/110	15/5	25.5 x 29 x 13	Z745-ND	3.38	3.04	2.70	2.43	G2R-14-DC24
	SPDT†	24VAC	260	10	10	80/30/110	15/10	25.5 x 29 x 13	Z843-ND	5.73	5.16	4.58	4.13	G2R-14-AC24
	SPDT†	120VAC	6500	10	10	80/30/110	15/10	25.5 x 29 x 13	Z844-ND	6.30	5.67	5.04	4.54	G2R-14-AC120
4	DPDT†	5	47	5	5	70/15/110	15/5	25.5 x 29 x 13	Z746-ND	3.93	3.54	3.14	2.83	G2R-24-DC5
	DPDT†	12	275	5	5	70/15/110	15/5	25.5 x 29 x 13	Z747-ND	3.93	3.54	3.14	2.83	G2R-24-DC12BYKUM
	DPDT†	24	1100	5	5	70/15/110	15/5	25.5 x 29 x 13	Z748-ND	3.93	3.54	3.14	2.83	G2R-24-DC24
	DPDT	24VAC	260	5	5	80/30/110	15/10	25.5 x 29 x 13	Z845-ND	6.55	5.90	5.24	4.72	G2R-24-AC24
	DPDT	120VAC	6500	5	5	80/30/110	15/10	25.5 x 29 x 13	Z846-ND	7.15	6.44	5.72	5.15	G2R-24-AC120
5	SPDT	5	47	16	16	70/15/110	15/5	25.5 x 29 x 13	Z847-ND	3.48	3.13	2.78	2.51	G2R-1-E-DC5
	SPDT	12	275	16	16	70/15/110	15/5	25.5 x 29 x 13	Z848-ND	3.48	3.13	2.78	2.51	G2R-1-E-DC12
	SPDT	24	1100	16	16	70/15/110	15/5	25.5 x 29 x 13	Z849-ND	3.48	3.13	2.78	2.51	G2R-1-E-DC24
6	SPST-NO	12	160	20	20	70/10/110	20/10	23.5 x 30.5 x 16	Z954-ND	6.18	5.56	4.94	4.45	G4A-1A-P-E-DC12
	SPST-NO	24	640	20	20	70/10/110	20/10	23.5 x 30.5 x 16	Z955-ND	6.18	5.56	4.94	4.45	G4A-1A-P-E-DC24
7	SPST-NO†	12	180	15	15	80/10/110	20/5	30.5 x 30.5 x 19.5	Z961-ND	5.43	4.89	4.34	3.91	G4W1114PUSTV8HPDC12
	SPST-NO†	24	720	15	15	80/10/110	20/5	30.5 x 30.5 x 19.5	Z962-ND	5.43	4.89	4.34	3.91	G4W1114PUSTV8HPDC24
8	DPST-NO†	12	180	15	15	80/10/110	20/5	30.5 x 30.5 x 19.5	Z963-ND	6.45	5.81	5.16	4.65	G4W-2214PUSHP-DC12
	DPST-NO†	24	720	15	15	80/10/110	20/5	30.5 x 30.5 x 19.5	Z964-ND	6.45	5.81	5.16	4.65	G4W-2214PUSHP-DC24
9	SPDT†*	5	63	8	10	75/10/130	10/5	19.0 x 22.5 x 16.5	Z1011-ND	1.88	1.69	1.50	1.35	G5LE-14-DC5
	SPDT†*	12	360	8	10	75/10/130	10/5	19.0 x 22.5 x 16.5	Z1012-ND	1.88	1.69	1.50	1.35	G5LE-14-DC12
	SPDT†*	24	1440	8	10	75/10/130	10/5	19.0 x 22.5 x 16.5	Z1013-ND	1.88	1.69	1.50	1.35	G5LE-14-DC24
9	SPDT	5	63	8	10	75/10/130	10/5	19.0 x 22.5 x 16.5	Z1014-ND	1.70	1.53	1.36	1.23	G5LE-1-DC5
	SPDT	12	360	8	10	75/10/130	10/5	19.0 x 22.5 x 16.5	Z1015-ND	1.70	1.53	1.36	1.23	G5LE-1-DC12
	SPDT	24	1440	8	10	75/10/130	10/5	19.0 x 22.5 x 16.5	Z1016-ND	1.70	1.53	1.36	1.23	G5LE-1-DC24
10	SPDT†	5	114	5	8	70/10/110	15/5	15 x 28.5 x 10	Z987-ND	2.35	2.12	1.88	1.70	G6RN-1-DC5
	SPDT†	12	665	5	8	70/10/110	15/5	15 x 28.5 x 10	Z988-ND	2.35	2.12	1.88	1.70	G6RN-1-DC12
	SPDT†	24	2620	5	8	70/10/110	15/5	15 x 28.5 x 10	Z990-ND	2.35	2.12	1.88	1.70	G6RN-1-DC24

† Sealed case * Meets FCC Part 68 standards. All Relays UL/CSA approved

Mounting Hole Pattern & Connection Diagram
"Bottom view unless otherwise noted"

Fig. 1

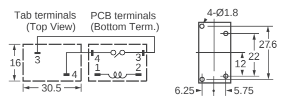


Fig. 2

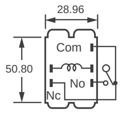


Fig. 3

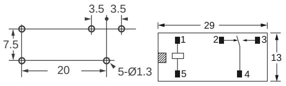
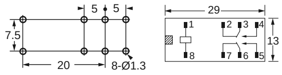


Fig. 4



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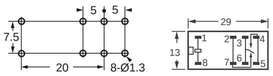

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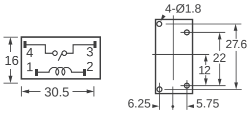
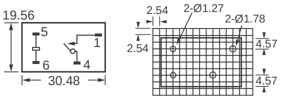


Fig. 7



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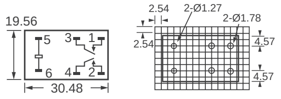


Fig. 9

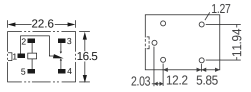
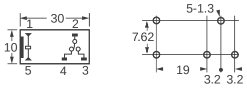


Fig. 10



OMRON General Purpose Relays

Fig.	Contact Form	Coil Volt.	Coil Res. (Ω)	Contact Ratings Resistive (A)	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/Time (msec.)	Digi-Key Part No.	Price Each				Omron Part No.
								1	25	50	100	
Power Relays — Plug-In Terminals												
1	SPDT	120VAC	4430	15A @ 110VAC 15A @ 24VDC	80/30/110	25/25	Z781-ND	6.75	6.08	5.40	4.86	LY1-AC110/120
		24VAC	180		80/30/110	25/25	Z783-ND	6.75	6.08	5.40	4.86	LY1-AC24
		24VDC	650		80/10/110	25/25	Z784-ND	6.45	5.81	5.16	4.65	LY1-DC24
		12VDC	160		80/10/110	25/25	Z785-ND	6.45	5.81	5.16	4.65	LY1-DC12
1	DPDT	120VAC	4430	10A @ 110VAC 10A @ 24VDC	80/30/110	25/25	Z786-ND	7.58	6.82	6.06	5.46	LY2-AC110/120
		24VAC	180		80/30/110	25/25	Z788-ND	7.58	6.82	6.06	5.46	LY2-AC24
		24VDC	650		80/10/110	25/25	Z789-ND	7.58	6.82	6.06	5.46	LY2-DC24
		12VDC	160		80/10/110	25/25	Z790-ND	7.58	6.82	6.06	5.46	LY2-DC12
1	SPDT	12VDC	160	15A @ 110VAC 15A @ 24VDC	80/10/110	25/25	Z193-ND	6.85	6.17	5.48	4.94	LY1F-DC12
		24VDC	650		80/10/110	25/25	Z194-ND	6.85	6.17	5.48	4.94	LY1F-DC24
		24VAC	180		80/30/110	25/25	Z195-ND	6.85	6.17	5.48	4.94	LY1F-AC24
		120VAC	4430		80/30/110	25/25	Z782-ND	6.85	6.17	5.48	4.94	LY1F-AC110/120
1	DPDT	12VDC	160	10A @ 110VAC 10A @ 24VDC	80/10/110	25/25	Z190-ND	7.73	6.96	6.18	5.57	LY2F-DC12
		24VDC	650		80/10/110	25/25	Z191-ND	7.73	6.96	6.18	5.57	LY2F-DC24
		24VAC	180		80/30/110	25/25	Z192-ND	7.73	6.96	6.18	5.57	LY2F-AC24
		120VAC	4430		80/30/110	25/25	Z787-ND	7.73	6.96	6.18	5.57	LY2F-AC110/120
Power Relays — PC Mount												
1	SPDT	12VDC	160	15A @ 110VAC 15A @ 24VDC	80/10/110	25/25	Z974-ND	6.75	6.08	5.40	4.86	LY1-0-DC12
		24VDC	650		80/10/110	25/25	Z973-ND	6.75	6.08	5.40	4.86	LY1-0-DC24
		24VAC	180		80/30/110	25/25	Z972-ND	6.75	6.08	5.40	4.86	LY1-0-AC24
		120VAC	4430		80/30/110	25/25	Z971-ND	6.75	6.08	5.40	4.86	LY1-0-AC110/120
1	DPDT	12VDC	160	10A @ 110VAC 10A @ 24VDC	80/10/110	25/25	Z978-ND	7.58	6.82	6.06	5.46	LY2-0-DC12
		24VDC	650		80/10/110	25/25	Z977-ND	7.58	6.82	6.06	5.46	LY2-0-DC24
		100VDC	6900		80/10/110	25/25	Z979-ND	7.90	7.11	6.32	5.69	LY2-0-DC100/110
		24VAC	180		80/30/110	25/25	Z976-ND	7.58	6.82	6.06	5.46	LY2-0-AC24
		120VAC	4430		80/30/110	25/25	Z975-ND	7.58	6.82	6.06	5.46	LY2-0-AC110/120
Power Relays — Plug-In Terminals												
2	DPDT	12VDC	95	10A @ 220VAC 10A @ 28VDC	80/10/110	30/20	Z800-ND	10.68	9.61	8.54	7.69	MK2P-S-DC12
		24VDC	430		80/10/110	30/20	Z799-ND	10.68	9.61	8.54	7.69	MK2P-S-DC24
		24VAC	88		80/30/110	20/20	Z798-ND	10.60	9.54	8.48	7.64	MK2P-S-AC24
		120VAC	2300		80/30/110	20/20	Z797-ND	11.60	10.44	9.28	8.36	MK2P-S-AC120
2	3PDT	12VDC	95	10A @ 220VAC 10A @ 28VDC	80/10/110	30/20	Z804-ND	12.20	10.98	9.76	8.79	MK3P5-S-DC12
		24VDC	430		80/10/110	30/20	Z803-ND	12.20	10.98	9.76	8.79	MK3P5-S-DC24
		24VAC	88		80/30/110	20/20	Z802-ND	12.20	10.98	9.76	8.79	MK3P5-S-AC24
		120VAC	2300		80/30/110	20/20	Z801-ND	13.05	11.75	10.44	9.40	MK3P5-S-AC120
3	DPDT	12VDC	160	5A @ 220VAC 5A @ 24VDC	80/10/110	20/20	Z181-ND	5.38	4.84	4.30	3.87	MY2-DC12(S)
		24VDC	636		80/10/110	20/20	Z182-ND	5.38	4.84	4.30	3.87	MY2-DC24(S)
		48VDC	2560		80/10/110	20/20	Z183-ND	5.60	5.04	4.48	4.04	MY2-DC48(S)
		24VAC	180		80/30/110	20/20	Z184-ND	5.38	4.84	4.30	3.87	MY2-AC24(S)
		120VAC	4430		80/30/110	20/20	Z185-ND	5.60	5.04	4.48	4.04	MY2-AC110/120(S)
3	4PDT	12VDC	160	3A @ 220VAC 3A @ 24VDC	80/30/110	20/20	Z186-ND	6.48	5.83	5.18	4.67	MY4-DC12(S)
		24VDC	636		80/30/110	20/20	Z187-ND	6.48	5.83	5.18	4.67	MY4-DC24(S)
		24VAC	180		80/30/110	20/20	Z188-ND	6.48	5.83	5.18	4.67	MY4-AC24(S)
		120VAC	4430		80/30/110	20/20	Z189-ND	6.63	5.97	5.30	4.77	MY4-AC110/120(S)
4	SPST	24VDC	303	30A @ 220VAC	75/15/110	30/30	Z817-ND	10.53	9.48	8.42	7.58	G7L-1A-TUB-J-CB-DC24
		24VAC	270		75/15/110	30/30	Z815-ND	11.30	10.17	9.04	8.14	G7L-1A-TUB-J-CB-AC24
		120VAC	5260		65/15/110	30/30	Z814-ND	11.30	10.17	9.04	8.14	G7L-1A-TUB-J-CB-AC100/120
		220VAC	21000		70/20/120	30/30	Z816-ND	11.93	10.74	9.54	8.59	G7L-1A-TUB-J-CB-AC200/240
4	SPST	12VDC	75	30A @ 220VAC	75/15/110	30/30	Z1051-ND	15.75	14.18	12.60	11.34	G7L-1A-BUBJ-CB-DC12
		24VDC	303		75/15/110	30/30	Z1052-ND	15.75	14.18	12.60	11.34	G7L-1A-BUBJ-CB-DC24
		24VAC	303		75/15/110	30/30	Z1053-ND	15.15	13.64	12.12	10.91	G7L-1A-BUBJ-CB-AC24
		120VAC	5260		75/18/132	30/30	Z1054-ND	16.68	15.01	13.34	12.01	G7L-1A-BUBJ-CB-AC100/120
4	DPST	24VDC	303	25A @ 220VAC	75/15/110	30/30	Z821-ND	10.95	9.86	8.76	7.89	G7L-2A-TUB-J-CB-DC24
		24VAC	270		75/15/110	30/30	Z820-ND	11.70	10.53	9.36	8.43	G7L-2A-TUB-J-CB-AC24
		120VAC	5260		65/15/110	30/30	Z818-ND	11.70	10.53	9.36	8.43	G7L-2A-TUB-J-CB-AC100/120
		220VAC	21000		70/20/120	30/30	Z819-ND	12.28	11.05	9.82	8.84	G7L-2A-TUB-J-CB-AC200/240
5	DPST-NO/NC	120VAC	—	25A @ 220VAC	75/18/132	50/50	Z1030-ND	44.85	40.37	35.88	32.30	G7J-2A2-B-B-W1-AC100/120
		240VAC	—		150/36/264	50/50	Z1031-ND	46.28	41.65	37.02	33.32	G7J-2A2-B-B-W1-AC200/240
		24VDC	288		75/10/110	50/50	Z1032-ND	40.83	36.75	32.66	29.40	G7J-2A2-B-B-W1-DC24
5	3PST/ SPST	120VAC	—	25A @ 220VAC	75/18/132	50/50	Z1033-ND	44.85	40.37	35.88	32.30	G7J-3A1-B-B-W1-AC100/120
		240VAC	—		150/36/264	50/50	Z1034-ND	46.28	41.65	37.02	33.32	G7J-3A1-B-B-W1-AC200/240
		24VDC	288		75/10/110	50/50	Z1035-ND	40.83	36.75	32.66	29.40	G7J-3A1-B-B-W1-DC24
5	4PST	120VAC	—	25A @ 220VAC	75/18/132	50/50	Z1036-ND	44.85	40.37	35.88	32.30	G7J-4A-B-W1-AC100/120
		240VAC	—		150/36/264	50/50	Z1037-ND	46.28	41.65	37.02	33.32	G7J-4A-B-W1-AC200/240
		24VDC	288		75/10/110	50/50	Z1038-ND	40.83	36.75	32.66	29.40	G7J-4A-B-W1-DC24
Power Relays — Hermetically Sealed Case												
3	4PDT	12DC	160	3A	80/10/110	20/20	Z1223-ND	44.18	39.76	35.34	31.81	MY4H-DC12
		24DC	650		80/10/110	20/20	Z1224-ND	44.18	39.76	35.34	31.81	MY4H-DC24
		120AC	4430		80/30/110	20/20	Z1225-ND	44.18	39.76	35.34	31.81	MY4H-AC110/120
MY2K Latching Relays — Plug In												
3	DPDT	12VDC	160	5A @ 220VAC 5A @ 24VDC	80/10/110	20/20	Z2056-ND	14.20	12.78	11.36	10.23	MY2K-DC12
		24VDC	636		80/10/110	20/20	Z2057-ND	18.15	16.34	14.52	13.07	MY2K-DC24
		120VAC	4430		80/30/110	20/20	Z2055-ND	39.75	35.78	31.80	28.62	MY2K-AC120

All Relays UL/CSA approved

Relay Sockets and Accessories

Fig.	Use with Series	Description	Digi-Key Part No.	Price Each				Omron Part No.
				1	25	50	100	
6	LY	Track Mounted Relay Sockets	Z791-ND	4.95	4.46	3.96	3.57	PTF08A-E
—	LY	Back Connecting Socket - PCB Mount	Z792-ND	1.80	1.62	1.44	1.30	PT08-0
—	LY	Back Connecting Socket - Solder Ear	Z793-ND	1.80	1.62	1.44	1.30	PT08
—	LY/MY	Socket Mounting Plate for Back Connect Sockets	Z794-ND	.30	.27	.24	.22	PYP-1
—	LY/MY	Relay Hold-Down Clip for Track Mounted Sockets	Z795-ND	.28	.25	.22	.20	PYC-A1
—	LY/MY	Relay Hold-Down Clip for Back Connecting Sockets	Z796-ND	.28	.25	.22	.20	PYC-P
—	MY	DPDT Track Mounted Relay Sockets	Z882-ND	5.20	4.68	4.16	3.75	PYF08A-E
—	MY	4PDT Track Mounted Relay Sockets	Z811-ND	7.55	6.80	6.04	5.44	PYF14A-E
—	MY4/MY2	4PDT Back Connecting Socket - Panel Mount	Z812-ND	1.80	1.62	1.44	1.30	PY14
—	MY4/MY2	4PDT Back Connecting Socket - PCB Mount	Z813-ND	1.80	1.62	1.44	1.30	PY14-02
—	MY4/MY2	Screwless Socket (Wire Trap) Type for MY4 Series	Z2063-ND	10.73	9.66	8.58	7.73	PYF14S
—	MY2	Screwless Socket (Wire Trap) Type for MY2 Series	Z2062-ND	6.53	5.88	5.22	4.70	PYF08S
—	MY4	Socket Release Lever (Releases Relay) For PYF14S	Z2061-ND	.70	.63	.56	.51	PYCM-14S
—	MY2	Socket Release Lever (Releases Relay) For PYF08S	Z2060-ND	.45	.41	.36	.33	PYCM-08S
—	MK	DPDT Track Mounted Relay Sockets	Z805-ND	4.65	4.19	3.72	3.35	PF083A-E
—	MK	DPDT Connecting Socket - Panel Mount	Z836-ND	1.75	1.58	1.40	1.26	PL08
—	MK	DPDT Connecting Socket - PCB Mount	Z837-ND	2.90	2.61	2.32	2.09	PLE08-0
—	MK	3PDT Track Mounted Relay Sockets	Z806-ND	6.65	5.99	5.32	4.79	PF113A-E
—	MK	3PDT Connecting Socket - Panel Mount	Z838-ND	2.05	1.85	1.64	1.48	PL11
—	MK	3PDT Connecting Socket - PCB Mount	Z839-ND	2.90	2.61	2.32	2.09	PLE11-0
7	MY/LY/MK	1.0m (3.28ft.) DIN Rail Socket Mounting Track	Z840-ND	6.43	5.79	5.14	4.63	PFP100N
7	MY/LY/MK	0.5m (1.64ft.) DIN Rail Socket Mounting Track	Z841-ND	5.23	4.71	4.18	3.77	PFP50N
—	—	W-Bracket for Omron Relay	Z1238-ND	1.38	1.24	1.10	.99	R9904FORG5F

9135B-ND	Omron Relay Data Book	$2.95

Max. Operating Voltage:
LY SERIES: 250VAC/125VDC, MK SERIES: 500VAC/250VDC, MY SERIES: 250VAC/125VDC, G7L SERIES: 250VAC, G8P SERIES: 250VAC/28VDC

Fig. 1

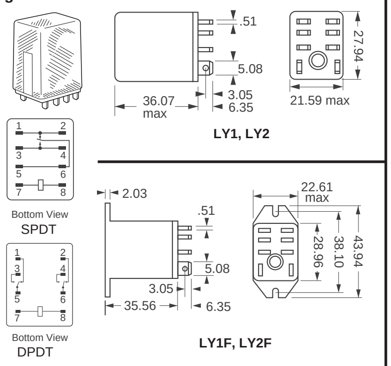


Fig. 2

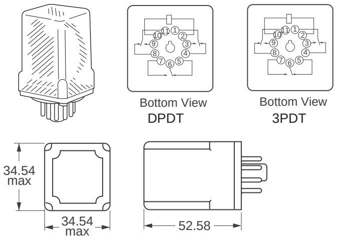


Fig. 3

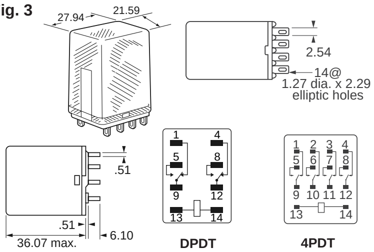


Fig. 4

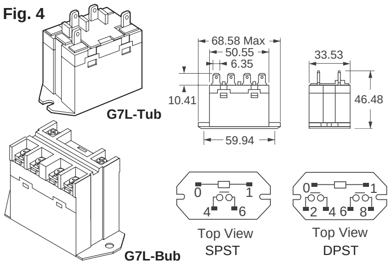


Fig. 5

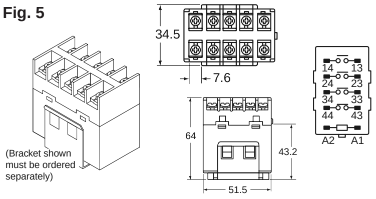


Fig. 6

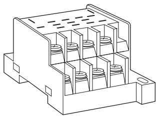
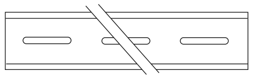


Fig. 7



OMRON® General Purpose and Automotive Relays

Fig.	Contact Form	Coil Volt.	Coil Res. (Ω)	Contact Ratings Resistive (A)	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/Time (msec.)	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
					G8P Relay – PC Mount and QC Style							
1	SPST	5DC	27	30A@250VAC 20A@28VDC	75/10/120	15/10	Z1002-ND	3.35	3.02	2.68	2.42	G8P-1AP-DC5
	SPST	12DC	155		75/10/120	15/10	Z1003-ND	3.75	3.38	3.00	2.70	G8P-1AP-DC12
	SPST	24DC	660		75/10/120	15/10	Z1004-ND	3.35	3.02	2.68	2.42	G8P-1AP-DC24
Dust Cover for Open Frame G8P Series Above							Z1005-ND	.13	.12	.10	.09	R99-C02-G8PN
2	SPST-NO	5DC	27	30A@250VAC	75/10/120	15/10	Z1006-ND	3.43	3.17	2.97	2.63	G8P-1A4P-DC5
	SPST-NO	12DC	155	20A@28VDC	75/10/120	15/10	Z1007-ND	3.14	2.90	2.72	2.40	G8P-1A4P-DC12
2	SPST-NO	24DC	660	1hp@125VAC & 2hp@250VAC	75/10/120	15/10	Z1008-ND	3.14	2.90	2.72	2.40	G8P-1A4P-DC24
	SPDT	12DC	155	10A @ 250VAC	75/10/120	15/10	Z1009-ND	3.43	3.16	2.97	2.63	G8P-1C4P-DC12
3	SPST	12VDC	155	30	75/10/120	15/10	Z208-ND	3.70	3.33	2.96	2.67	G8P-1A4TP-DC12
	SPST	24VDC	660	30	75/10/120	15/10	Z209-ND	3.70	3.33	2.96	2.67	G8P-1A4TP-DC24
	SPDT	12VDC	155	20	75/10/120	15/10	Z210-ND	3.80	3.42	3.04	2.74	G8P-1C4TP-DC12
	SPDT	24VDC	660	20	75/10/120	15/10	Z214-ND	3.80	3.42	3.04	2.74	G8P-1C4TP-DC24
4	SPST	12VDC	155	30	75/10/120	15/10	Z215-ND	4.00	3.60	3.20	2.88	G8P-1A2T-F-DC12
	SPST	24VDC	660	30	75/10/120	15/10	Z216-ND	4.00	3.60	3.20	2.88	G8P-1A2T-F-DC24
	SPDT	12VDC	155	20	75/10/120	15/10	Z217-ND	4.10	3.69	3.28	2.96	G8P-1C2T-F-DC12
	SPDT	24VDC	660	20	75/10/120	15/10	Z218-ND	4.10	3.69	3.28	2.96	G8P-1C2T-F-DC24
					G8JN ISO Automotive Relay							
5	SPST-NO	12DC	78	30	75/10/120	5/4	Z980-ND*	4.90	4.41	3.92	3.53	G8JN-1A7P-DC12
	SPDT	12DC	78	35NO/20NC	75/10/120	5/4	Z981-ND	5.20	4.68	4.16	3.75	G8JN-1C7T-DC12
	SPDT	12DC	78	35NO/20NC	75/10/120	5/4	Z982-ND†	5.10	4.59	4.08	3.68	G8JN-1C7T-MF-DC12
	SPDT	12DC	78	35NO/20NC	75/10/120	5/4	Z983-ND‡	5.23	4.71	4.18	3.77	G8JN-1C6T-DC12
	SPDT	12DC	78	35NO/20NC	75/10/120	5/4	Z984-ND§	6.45	5.81	5.16	4.65	G8JN-1C6T-F-DC12
					G8W Mini 280 Automotive Relay							
6	SPST	12DC	57	35NO/20NC	80/10/130	—	Z2053-ND	12.00	10.80	9.60	8.64	G8W-1A6T-F-R-DC12
	SPDT	12DC	57	35NO/20NC	80/10/130	—	Z2054-ND	12.30	11.07	9.84	8.86	G8W-1C6T-F-R-DC12
					G8V Micro280 Automotive Relay							
7	SPST	12DC	175	20NO/10NC	80/10/130	—	Z2051-ND	10.05	9.05	8.04	7.24	G8V-1A7T-R-DC12
	SPDT	12DC	175	20NO/10NC	80/10/130	—	Z2052-ND	10.38	9.34	8.30	7.47	G8V-1C7T-R-DC12
					G8H Mini ISO Automotive Relay							
8	SPDT	12DC	80	20NO/10NC	70/10/133	10/5	Z2001-ND	6.45	5.81	5.16	4.65	G8H-1C4T-R-DC12
					MJN Relay – Plug-In Style							
9	DPDT	12VDC	120	10	85/10/120	15/6	Z237-ND	11.70	10.53	9.36	8.43	MJN2C-DC12
	DPDT	24VDC	470	10	85/10/120	15/6	Z236-ND	11.70	10.53	9.36	8.43	MJN2C-DC24
	DPDT	24VAC	75	10	85/10/120	15/6	Z235-ND	12.45	11.21	9.96	8.97	MJN2C-AC24
	DPDT	120VAC	2250	10	85/10/120	15/6	Z238-ND	12.25	11.03	9.80	8.82	MJN2C-AC120
	3PDT	12VDC	120	10	85/10/120	15/6	Z233-ND	12.10	10.89	9.68	8.72	MJN3C-DC12
	3PDT	24VDC	470	10	85/10/120	15/6	Z232-ND	12.10	10.89	9.68	8.72	MJN3C-DC24
	3PDT	24VAC	72	10	85/10/120	15/6	Z231-ND	12.95	11.66	10.36	9.33	MJN3C-AC24
	3PDT	120VAC	1700	10	85/10/120	15/6	Z234-ND	13.63	12.27	10.90	9.81	MJN3C-AC120
					MJN Relay with Mounting Flange							
9	DPDT	12VDC	120	10	85/10/120	15/6	Z244-ND	11.38	10.24	9.10	8.19	MJN2CF-DC12
	DPDT	24VDC	470	10	85/10/120	15/6	Z245-ND	11.25	10.13	9.00	8.10	MJN2CF-DC24
	DPDT	24VAC	75	10	85/10/120	15/6	Z243-ND	12.08	10.87	9.66	8.70	MJN2CF-AC24
	DPDT	120VAC	2250	10	85/10/120	15/6	Z246-ND	12.08	10.87	9.66	8.70	MJN2CF-AC120
	DPDT	12VDC	120	10	85/10/120	15/6	Z241-ND	12.40	11.16	9.92	8.93	MJN3CF-DC12
	DPDT	24VDC	470	10	85/10/120	15/6	Z240-ND	13.03	11.73	10.42	9.38	MJN3CF-DC24
	DPDT	24VAC	72	10	85/10/120	15/6	Z239-ND	13.78	12.40	11.02	9.92	MJN3CF-AC24
	3PDT	120VAC	1700	10	85/10/120	15/6	Z242-ND	14.03	12.63	11.22	10.10	MJN3CF-AC120
	DPDT	12VDC	120	20	85/10/120	15/6	Z249-ND	15.00	13.50	12.00	10.80	MJN2CE-DC12
	DPDT	24VDC	470	20	85/10/120	15/6	Z250-ND	15.00	13.50	12.00	10.80	MJN2CE-DC24
	DPDT	24VAC	75	20	85/10/120	15/6	Z248-ND	15.38	13.84	12.30	11.07	MJN2CE-AC24
	DPDT	120VAC	2250	20	85/10/120	15/6	Z247-ND	15.80	14.22	12.64	11.38	MJN2CE-AC120
					MGN Relay – Heavy Duty Power Type							
10	SPDT	12VDC	72	30	75/10/100	30/30	Z257-ND	23.50	21.15	18.80	16.92	MGN1C-DC12
	SPDT	24VDC	290	30	75/10/100	30/30	Z258-ND	21.05	18.95	16.84	15.16	MGN1C-DC 24
	SPDT	24VAC	11.5	30	85/10/100	30/30	Z255-ND	23.38	21.04	18.70	16.83	MGN1C-AC24
	SPDT	120VAC	295	30	75/10/100	30/30	Z256-ND	23.38	21.04	18.70	16.83	MGN1C-AC120
	SPST	12VDC	72	30	75/10/100	30/30	Z261-ND	20.15	18.14	16.12	14.51	MGN1X-DC12
	SPST	24VDC	290	30	75/10/100	30/30	Z262-ND	21.15	19.04	16.92	15.23	MGN1X-DC24
	SPST	24VAC	11.5	30	85/10/100	30/30	Z260-ND	18.93	17.04	15.14	13.63	MGN1X-AC24
	SPST	120VAC	295	30	85/10/100	30/30	Z259-ND	18.95	17.06	15.16	13.65	MGN1X-AC120
	DPST	12VDC	72	30	75/10/100	30/30	Z265-ND	24.05	21.65	19.24	17.32	MGN2A-DC12
	DPST	24VDC	290	30	75/10/100	30/30	Z266-ND	22.78	20.50	18.22	16.40	MGN2A-DC24
	DPST	24VAC	11.5	30	85/10/100	30/30	Z264-ND	25.75	23.18	20.60	18.54	MGN2A-AC24
	DPST	120VAC	295	30	85/10/100	30/30	Z263-ND	27.93	25.14	22.34	20.11	MGN2A-AC120
	DPDT	12VDC	72	30	75/10/100	30/30	Z269-ND	34.25	30.83	27.40	24.66	MGN2C-DC12
	DPDT	24VDC	290	30	75/10/100	30/30	Z270-ND	33.15	29.84	26.52	23.87	MGN2C-DC24
	DPDT	24VAC	11.5	30	85/10/100	30/30	Z268-ND	34.65	31.19	27.72	24.95	MGN2C-AC24
	DPDT	120VAC	295	30	85/10/100	30/30	Z267-ND	29.70	26.73	23.76	21.39	MGN2C-AC120

All Relays UL/CSA approved * PC Mount † Molded Bracket ‡ Weatherproof Shroud § Weatherproof Shroud with Metal Bracket

Relay Sockets and Accessories

Fig.	Use with Series	Description	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
11	MJN	Din Rail Socket with Screw Terminals	Z251-ND	8.03	7.23	6.42	5.78	PTF11PC
12	MJN	Chassis Mount with QC Terminals	Z252-ND	1.70	1.53	1.36	1.23	PTF11QDC
11	MJN	Chassis Mount with Screw Terminals	Z253-ND	7.80	7.02	6.24	5.62	PTF21PC
12	MJN	Chassis Mount with PCB Terminals	Z254-ND	1.58	1.42	1.26	1.14	PTFPCB
—	G2R-S	Nameplate for use with PTRF-05	Z2000-ND	4.98	4.48	3.98	3.59	R99-11
—	G2R-S	Screwless Socket (Wire Trap) SP G2R-S	Z2058-ND	4.20	3.78	3.36	3.03	PTRF-05-S
—	G2R-S	Screwless Socket (Wire Trap) DP G2R-S	Z2059-ND	6.60	5.94	5.28	4.76	PTRF-08-S

Fig. 1 Open Frame

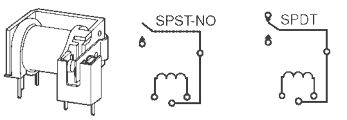


Fig. 2 Sealed Case

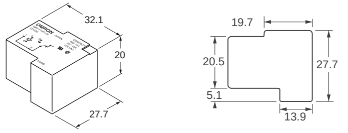


Fig. 3

PCB & QC

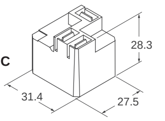


Fig. 4

Chassis Mount

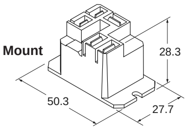


Fig. 5 G8JN

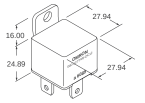


Fig. 6 G8W

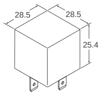


Fig. 7 G8V

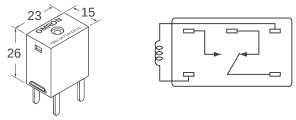


Fig. 8 G8H Mini-ISO

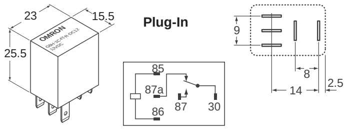


Fig. 9

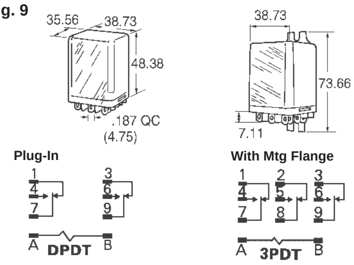


Fig. 10

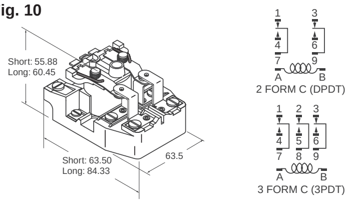


Fig. 11

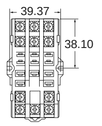
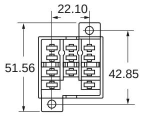


Fig. 12



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NAiS Your Partner for the 21st Century

Telcom PC Mount Relays

Bottom view shown unless otherwise noted

**** All relays are UL, CSA approved***

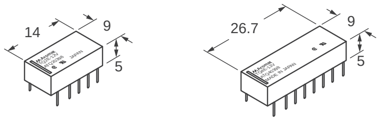
9277B-ND Aromat Relay Guide **$2.95**

Aromat's T-Series is a family of compact, high sensitivity relays that combine all the relay technologies accumulated over the past 20 years.

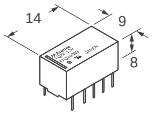
T-Series relays are widely used in communications, instrumentation and control interface equipment.

The proven quality of our T-Series relays will be maintained because of our commitment to cutting edge technology and a willingness to listen to our customers needs.

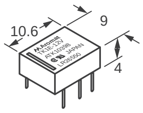
TQ Series



TF Series



TK Series



TX Series

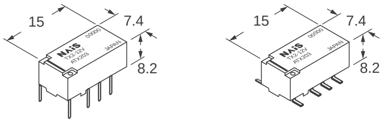


Fig.	Cont. Arrange.	Coil Volt	Coil Res.	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	Contact Ratings (A) 125 VAC	Pickup/Dropout/ Max. Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Aromat Part No.
							TQ Series Telcom Relays						
1	DPDT	3VDC	64.3	46.7	1	.5	2.25/0.3/4.5	255-1225-5-ND	2.65	2.43	2.16	1.84	TQ2-3V
	DPDT	4.5VDC	144	31.1	1	.5	3.38/.45/6.7	255-1226-5-ND	2.65	2.43	2.16	1.84	TQ2-4.5V
	DPDT	5VDC	178	28.1	1	.5	3.75/0.5/7.5	255-1001-5-ND	2.65	2.43	2.16	1.84	TQ2-5V
	DPDT	12VDC	1,028	11.7	1	.5	9/1.2/18	255-1002-5-ND	2.65	2.43	2.16	1.84	TQ2-12V
	DPDT	24VDC	2,880	8.3	1	.5	18/2.4/36	255-1003-5-ND	3.16	2.91	2.58	2.20	TQ2-24V
2	4PDT	5VDC	89	56.2	1	.5	3.75/0.5/7.5	255-1013-5-ND	17.64	16.20	14.40	12.24	TQ4-5V
	4PDT	12VDC	514	23.3	1	.5	9/1.2/18	255-1014-5-ND	17.64	16.20	14.40	12.24	TQ4-12V
	4PDT	24VDC	2,056	11.7	1	.5	18/2.4/36	255-1015-5-ND	19.11	17.55	15.60	13.26	TQ4-24V
							TQ Series Telcom Single Coil Latching Relays						
3	DPDT	5VDC	250	20	1	.5	3.75/3.75/7.5	255-1004-5-ND	3.16	2.91	2.58	2.20	TQ2-L-5V
	DPDT	12VDC	1,440	8.3	1	.5	9/9/18	255-1005-5-ND	3.16	2.91	2.58	2.20	TQ2-L-12V
	DPDT	24VDC	3840	12.5	1	.5	18/18/36	255-1006-5-ND	3.58	3.29	2.92	2.49	TQ2-L-24V
							TQ Series Telcom Dual Coil Latching Relays						
4	DPDT	5VDC	125	40	1	.5	3.75/3.75/7.5	255-1007-5-ND	3.31	3.04	2.70	2.30	TQ2-L2-5V
	DPDT	9VDC	405	22.2	1	.5	16.75/13.5	255-1355-5-ND	3.31	3.04	2.70	2.30	TQ2-L2-9V
	DPDT	12VDC	720	16.7	1	.5	9/9/18	255-1008-5-ND	3.31	3.04	2.70	2.30	TQ2-L2-12V
	DPDT	24VDC	1,920	12.5	1	.5	18/18/28.8	255-1009-5-ND	3.75	3.45	3.06	2.61	TQ2-L2-24V
							TQ Series Telcom Relays SMD						
5	DPDT	1.5VDC	16	93.8	2	.5	1.13/.15/2.2	255-1224-5-ND	3.01	2.77	2.46	2.10	TQ2SA-1.5V
	DPDT	3VDC	64.3	46.7	2	.5	2.25/.30/4.5	255-1228-5-ND	3.01	2.77	2.46	2.10	TQ2SA-3V
	DPDT	4.5VDC	145	31	2	.5	3.38/.45/6.7	255-1229-5-ND	3.01	2.77	2.46	2.10	TQ2SA-4.5V
	DPDT	5VDC	178	28.1	2	.5	3.75/0.5/7.5	255-1010-5-ND	3.01	2.77	2.46	2.10	TQ2SA-5V
	DPDT	12VDC	1,028	11.7	2	.5	9/1.2/18	255-1011-5-ND	3.01	2.77	2.46	2.10	TQ2SA-12V
	DPDT	24VDC	2,880	8.3	2	.5	18/2.4/36	255-1012-5-ND	3.58	3.29	2.92	2.49	TQ2SA-24V
							TF Series Telcom Relays						
6	DPDT	3VDC	112.5	26.7	1	.5	2.25/0.3/4.5	255-1384-5-ND	5.41	4.98	4.42	3.76	TF2-3V
	DPDT	5VDC	312.5	16	1	.5	3.75/0.5/7.5	255-1016-5-ND	5.41	4.98	4.42	3.76	TF2-5V
	DPDT	12VDC	1,800	6.7	1	.5	9/1.2/18	255-1017-5-ND	5.41	4.98	4.42	3.76	TF2-12V
	DPDT	24VDC	4,100	5.8	1	.5	18/2.4/36	255-1018-5-ND	6.32	5.81	5.16	4.39	TF2-24V
							TF Series Telcom Dual Coil Latching Relays						
7	DPDT	5VDC	227.3	22	1	.5	3.75/3.75/7.5	255-1019-5-ND	7.03	6.46	5.74	4.88	TF2-L2-5V
	DPDT	12VDC	1,309	9.2	1	.5	9/9/18	255-1020-5-ND	7.03	6.46	5.74	4.88	TF2-L2-12V
	DPDT	24VDC	2,880	8.3	1	.5	18/18/36	255-1021-5-ND	7.15	6.57	5.84	4.97	TF2-L2-24V
							TN Series Telcom Relays						
8	DPDT	3VDC	64.3	46.7	1	.5	2.25/0.3/4.5	255-1385-5-ND	3.90	3.58	3.18	2.71	TN2-3V
	DPDT	5VDC	178	28.1	1	.5	3.75/0.5/7.5	255-1022-5-ND	3.90	3.58	3.18	2.71	TN2-5V
	DPDT	9VDC	579	15.5	1	.5	6.75/0.9/13.5	255-1386-5-ND	3.90	3.58	3.18	2.71	TN2-9V
	DPDT	12VDC	1,028	11.7	1	.5	9/1.2/18	255-1023-5-ND	3.90	3.58	3.18	2.71	TN2-12V
	DPDT	24VDC	2,880	8.3	1	.5	18/2.4/36	255-1024-5-ND	4.63	4.26	3.78	3.22	TN2-24V
							TN Series Telcom Dual Coil Latching Relays						
9	DPDT	5VDC	125	40	1	.5	3.75/3.75/7.5	255-1025-5-ND	4.85	4.46	3.96	3.37	TN2-L2-5V
	DPDT	12VDC	720	16.7	1	.5	9/9/18	255-1026-5-ND	4.85	4.46	3.96	3.37	TN2-L2-12V
	DPDT	24VDC	1,920	12.5	1	.5	18/18/28.8	255-1027-5-ND	5.49	5.04	4.48	3.81	TN2-L2-24V
							TK Series Telcom Relays						
10	SPDT	5VDC	178	28.1	2	.5	3.75/0.5/7.5	255-1028-5-ND	4.43	4.08	3.62	3.08	TK1-5V
	SPDT	12VDC	1,028	11.7	2	.5	9/1.2/18	255-1029-5-ND	4.43	4.08	3.62	3.08	TK1-12V
	SPDT	24VDC	2,133	11.3	2	.5	18/2.4/28.8	255-1030-5-ND	5.10	4.68	4.16	3.54	TK1-24V
							TX Series Telcom Relays						
11	DPDT	5VDC	178	28.1	2	.5	3.75/0.5/7.5	255-1031-5-ND	2.92	2.68	2.38	2.03	TX2-5V
	DPDT	12VDC	1,028	11.7	2	.5	9/1.2/18	255-1032-5-ND	2.92	2.68	2.38	2.03	TX2-12V
	DPDT	24VDC	4,114	5.8	2	.5	18/2.4/36	255-1033-5-ND	3.45	3.18	2.82	2.40	TX2-24V
							TX Series Telcom Relays SMD						
12	DPDT	5VDC	178	28.1	2	.5	3.75/0.5/7.5	255-1034-5-ND	3.01	2.77	2.46	2.10	TX2SA-5V
	DPDT	12VDC	1,028	11.7	2	.5	9/1.2/18	255-1035-5-ND	3.01	2.77	2.46	2.10	TX2SA-12V
	DPDT	24VDC	4,114	5.8	2	.5	18/2.4/36	255-1036-5-ND	3.55	3.27	2.90	2.47	TX2SA-24V
							TXS Series High Sensitivity Telcom Relays SMD						
13	DPDT	4.5VDC	405	11.1	1	—	3.6/.45/6.7	255-1393-5-ND	3.75	3.45	3.06	2.61	TXS2SA-4.5V
	DPDT	12VDC	2,880	4.2	1	—	9.6/1.2/18	255-1394-5-ND	3.75	3.45	3.06	2.61	TXS2SA-12V
	DPDT	24VDC	8,229	2.9	1	—	19.2/2.4/36	255-1395-5-ND	4.43	4.08	3.62	3.08	TXS2SA-24V
							HX Series Compact Telcom Relays						
14	DPDT	3VDC	28.1	107	1	.3	2.25/0.3/3.3	255-1392-5-ND	3.43	3.15	2.80	2.38	HX2-3V
	DPDT	5VDC	78.1	64	1	.3	3.75/.5/5.5	255-1236-5-ND	3.43	3.15	2.80	2.38	HX2-5V
	DPDT	12VDC	450	26.7	1	.3	9/1.2/13.2	255-1237-5-ND	3.43	3.15	2.80	2.38	HX2-12V
	DPDT	24VDC	1,800	13.4	1	.3	18/2.4/26.4	255-1238-5-ND	3.55	3.27	2.90	2.47	HX2-24V

Fig. 1 *TQ Series*

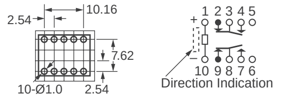


Fig. 2

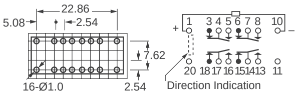


Fig. 3

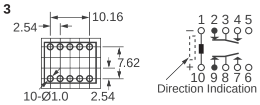


Fig. 4

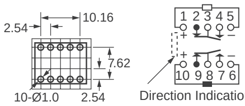


Fig. 5 *TQ Series SMD*

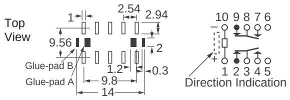


Fig. 6 *TF Series*

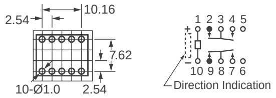


Fig. 7

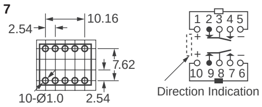


Fig. 8 *TN Series*

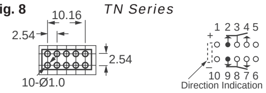


Fig. 9

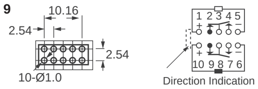


Fig. 10 *TK Series*

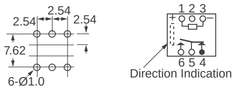


Fig. 11 *TX Series*

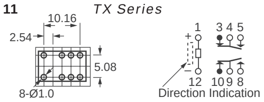


Fig. 12 *TX Series SMD*

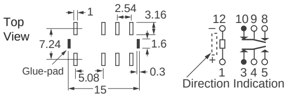


Fig. 13 *TXS Series SMD*

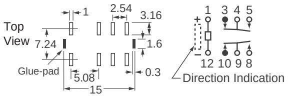
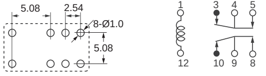


Fig. 14 *HX Series*



G

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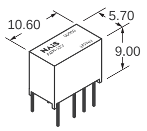
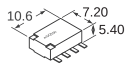
Telcom and Power Relays

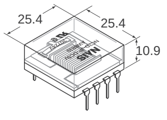
AGN Series



AGQ Series



NC Series



(JP Series Shown)

LE Series

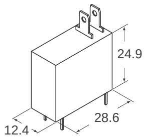


Fig.	Cont. Arrange.	Coil Volt	Coil Res.	Coil Curr. (mA)	Contact Ratings (A)		Pickup/Dropout/ Max. Voltage	Digi-Key Part No.	Price Each				Aromat Part No.
					30 VDC	125 VAC			1	25	50	100	
AGN Series Compact Telcom Relays													
1	DPDT	4.5VDC	145	31	1	.3	3.38/.45/6.75	255-1230-5-ND	3.38	3.11	2.76	2.35	AGN2004H
	DPDT	12VDC	1,028	11.7	1	.3	9/1.2/18	255-1231-5-ND	3.38	3.11	2.76	2.35	AGN20012
	DPDT	24VDC	2,504	9.6	1	.3	18/2.4/28.8	255-1232-5-ND	3.97	3.65	3.24	2.76	AGN20024
AGN Series Compact Telcom Relays SMD													
2	DPDT	4.5VDC	145	31	1	.3	3.38/.45/6.75	255-1233-5-ND	3.50	3.22	2.86	2.44	AGN200A4H
	DPDT	12VDC	1,028	11.7	1	.3	9/1.2/18	255-1234-5-ND	3.50	3.22	2.86	2.44	AGN200A12
	DPDT	24VDC	2,504	9.6	1	.3	18/2.4/28.8	255-1235-5-ND	4.12	3.78	3.36	2.86	AGN200A24
AGQ Series Ultra Low Profile Telcom Relays													
3	DPDT	1.5VDC	16	93.8	1	.3	1.13/.15/2.25	255-1356-5-ND	3.38	3.11	2.76	2.35	AGQ2001H
	DPDT	4.5VDC	145	31	1	.3	3.38/.45/6.75	255-1357-5-ND	3.38	3.11	2.76	2.35	AGQ2004H
	DPDT	12VDC	1,028	11.7	1	.3	9/1.2/18	255-1358-5-ND	3.38	3.11	2.76	2.35	AGQ20012
	DPDT	24VDC	2,504	9.6	1	.3	18/2.4/28.8	255-1359-5-ND	3.97	3.65	3.24	2.76	AGQ20024
AGQ Series Ultra Low Profile Telcom Relays SMD													
4	DPDT	1.5VDC	16	93.8	1	.3	1.13/.15/2.25	255-1360-5-ND	3.80	3.49	3.10	2.64	AGQ200S1H
	DPDT	3VDC	64.2	46.7	1	.3	2.25/0.3/4.5	255-1361-5-ND	3.80	3.49	3.10	2.64	AGQ200S03
	DPDT	4.5VDC	145	31	1	.3	3.38/.45/6.75	255-1362-5-ND	3.80	3.49	3.10	2.64	AGQ200S4H
	DPDT	12VDC	1,028	11.7	1	.3	9/1.2/18	255-1363-5-ND	3.80	3.49	3.10	2.64	AGQ200S12
	DPDT	24VDC	2,504	9.6	1	.3	18/2.4/28.8	255-1364-5-ND	4.39	4.03	3.58	3.05	AGQ200S24
ASX Series Telcom Relays													
5	DPDT	3VDC	180	16.7	.01	.01	2.4/0.3/4.5	255-1402-5-ND	5.54	5.09	4.52	3.85	ASX20003
	DPDT	4.5VDC	405	11.1	.01	.01	3.6/.45/6.75	255-1403-5-ND	5.54	5.09	4.52	3.85	ASX2004H
	DPDT	12VDC	2,880	4.2	.01	.01	9.6/1.2/18	255-1404-5-ND	5.76	5.29	4.70	4.00	ASX20012
	DPDT	24VDC	8,229	2.9	.01	.01	19.2/2.4/36	255-1405-5-ND	6.32	5.81	5.16	4.39	ASX20024
ASX Series Telcom Relays SMD													
6	DPDT	3VDC	180	16.7	.01	.01	2.4/0.3/4.5	255-1406-5-ND	5.76	5.29	4.70	4.00	ASX200A03
	DPDT	4.5VDC	405	11.1	.01	.01	3.6/.45/6.75	255-1407-5-ND	5.76	5.29	4.70	4.00	ASX200A4H
	DPDT	12VDC	2,880	4.2	.01	.01	9.6/1.2/18	255-1408-5-ND	5.76	5.29	4.70	4.00	ASX200A12
	DPDT	24VDC	8,229	2.9	.01	.01	19.2/2.4/36	255-1409-5-ND	6.57	6.03	5.36	4.56	ASX200A24
HA Series Power Relays													
7	SPDT	5VDC	69	72	3	3	4/0.5/6	255-1380-ND	7.18	6.60	5.86	4.99	HA1E-DC5V
	SPDT	9VDC	225	40	3	3	7.2/0.9/10.8	255-1381-ND	7.18	6.60	5.86	4.99	HA1E-DC9V
	SPDT	12VDC	400	30	3	3	9.6/1.2/14.4	255-1382-ND	7.18	6.60	5.86	4.99	HA1E-DC12V
	SPDT	24VDC	1,600	15	3	3	19.2/2.4/28.8	255-1383-ND	7.18	6.60	5.86	4.99	HA1E-DC24V
NEW! LD Series Slim Power Relay NEW!													
8	SPST	5VDC	125	40.0	3	3	3.75/0.25/6.5	255-1456-ND	1.49	1.38	1.22	1.04	ALD105
	SPST	12VDC	720	16.7	3	3	9/0.6/15.6	255-1457-ND	1.49	1.38	1.22	1.04	ALD112
	SPST	24VDC	2,880	8.3	3	3	18/1.2/31.2	255-1458-ND	1.74	1.60	1.42	1.21	ALD124
LE Series Power Relays (Ideal for Heater Loads)													
9	SPST	5VDC	63	80	16	16	3.8/0.3/7.2	255-1365-ND	1.62	1.49	1.32	1.13	ALE12B05
	SPST	12VDC	360	33.3	16	16	9/0.6/17.4	255-1366-ND	1.62	1.49	1.32	1.13	ALE12B12
	SPST	24VDC	1,440	16.7	16	16	18/1.2/34.8	255-1367-ND	1.74	1.60	1.42	1.21	ALE12B24
LZ Series Power Relays (Ideal for Heater Loads)													
10	SPDT	12VDC	360	33.3	16A @ 250VAC		8.4/1.2/15.6	255-1446-ND *NEW!*	2.08	1.92	1.70	1.45	ALZ12F12
	SPDT	24VDC	1,440	16.7	16A @ 250VAC		16.8/2.4/31.2	255-1445-ND *NEW!*	2.08	1.92	1.70	1.45	ALZ12B24
	SPDT	24VDC	1,440	16.7	16A @ 250VAC		16.8/2.4/31.2	255-1447-ND *NEW!*	2.16	1.98	1.76	1.50	ALZ12F24
10	SPST	12VDC	360	33.3	16	16	8.4/1.2/15.6	255-1410-ND	1.94	1.78	1.58	1.35	ALZ21B12
	SPST	12VDC	360	33.3	16A @ 250VAC		8.4/1.2/15.6	255-1448-ND *NEW!*	2.01	1.85	1.64	1.40	ALZ21F12
	SPST	24VDC	1,440	16.7	16	16	16.8/2.4/31.2	255-1411-ND	2.01	1.85	1.64	1.40	ALZ21B24
	SPST	24VDC	1,440	16.7	16A @ 250VAC		16.8/2.4/31.2	255-1449-ND *NEW!*	2.11	1.94	1.72	1.47	ALZ21F24
JG Series Power Relays													
11	SPST	5VDC	125	40	5	8	4/.25/6.5	255-1368-ND	2.79	2.57	2.28	1.94	JG1AF-5V
	SPST	12VDC	720	17	5	8	9.6/0.6/15.6	255-1369-ND	2.79	2.57	2.28	1.94	JG1AF-12V
	SPST	24VDC	2,880	8.3	5	8	19.2/1.2/31.2	255-1370-ND	2.79	2.57	2.28	1.94	JG1AF-24V
JK Series Slim High Capacity Power Relays													
12	SPST	5VDC	125	40	5	8	4/.25/6.5	255-1371-ND	3.16	2.91	2.58	2.20	JK1AP-5V
	SPST	12VDC	720	17	5	8	9.6/0.6/15.6	255-1372-ND	3.16	2.91	2.58	2.20	JK1AP-12V
	SPST	24VDC	2,880	8.3	5	8	19.2/1.2/31.2	255-1373-ND	3.16	2.91	2.58	2.20	JK1AP-24V
JV Series Flat Power Relays													
13	SPST	5VDC	125	40	10	10	4/.25/7.5	255-1377-ND	4.68	4.30	3.82	3.25	JV1A-5V
	SPST	12VDC	720	16.7	10	10	9.6/0.6/18	255-1378-ND	4.68	4.30	3.82	3.25	JV1A-12V
	SPST	24VDC	2,880	8.3	10	10	19.2/1.2/36	255-1379-ND	4.68	4.30	3.82	3.25	JV1A-24V
NC Series Power Relays													
14	DPDT	5VDC	69.4	72	5	5	4/0.5/6.75	255-1396-ND	10.95	10.06	8.94	7.60	NC2D-P-DC5V
	DPDT	12VDC	400	30	5	5	9.6/1.2/16.2	255-1397-ND	10.95	10.06	8.94	7.60	NC2D-P-DC12V
	DPDT	24VDC	1,600	15	5	5	19.2/2.4/32.4	255-1398-ND	10.95	10.06	8.94	7.60	NC2D-P-DC24V
15	DPDT	5VDC	69.4	72	5	5	4/0.5/6.75	255-1399-ND	10.95	10.06	8.94	7.60	NC2D-JP-DC5V
	DPDT	12VDC	400	30	5	5	9.6/1.2/16.2	255-1400-ND	10.95	10.06	8.94	7.60	NC2D-JP-DC12V
	DPDT	24VDC	1,600	15	5	5	19.2/2.4/32.4	255-1401-ND	10.95	10.06	8.94	7.60	NC2D-JP-DC24V
SF Series Safety Relays (Force Guided Contacts)													
16	DPST	12VDC	288	41.7	6	6	9/1.2/14.4	255-1412-ND	33.22	30.51	27.12	23.06	SF2-DC12V
	DPST	24VDC	1,152	20.8	6	6	14.4/2.4/28.8	255-1413-ND	33.22	30.51	27.12	23.06	SF2-DC24V
17	4PST	5VDC	50	100	6	6	3.75/.75/6	255-1414-ND	43.44	39.90	35.46	30.15	SF4-DC5V
	4PDT	12VDC	288	41.7	6	6@250AC	9/1.8/14.4	255-1440-ND *NEW!*	43.44	39.90	35.46	30.15	SF4D-DC12V
	4PDT	24VDC	1,152	20.8	6	6@250AC	18/3.6/28.8	255-1441-ND *NEW!*	43.44	39.90	35.46	30.15	SF4D-DC24V

Bottom view shown unless otherwise noted.

Fig. 1 *AGN Series*

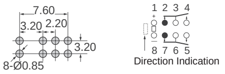


Fig. 2 *AGN Series SMD*

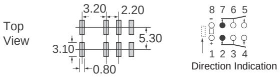


Fig. 3 *AGQ Series*

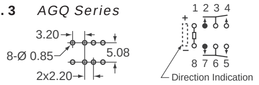


Fig. 4 *AGQ Series SMD*

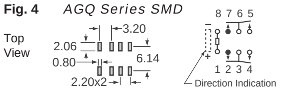


Fig. 5 *ASX Series*

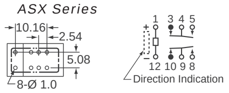


Fig. 6 *ASX Series SMD*

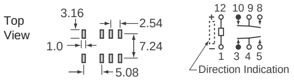


Fig. 7 *HA Series*

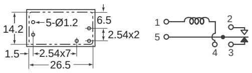


Fig. 8 *NEW!* *LD Series*

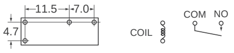


Fig. 9 *LE Series*

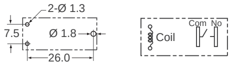


Fig. 10 *LZ Series*

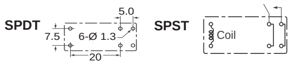


Fig. 11 *JG Series*

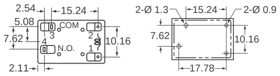


Fig. 12 *JK Series*

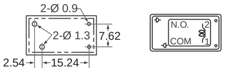


Fig. 13 *JV Series*

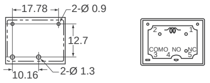


Fig. 14 *NC Series*

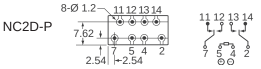


Fig. 15

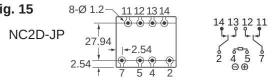


Fig. 16 *SF Series*

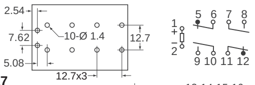
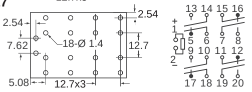


Fig. 17



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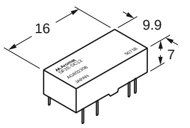
General Purpose PC Mount Relays

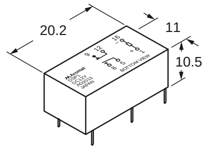
Aromat has one of the largest and most extensive offerings in the general purpose relay area. Used in applications from telecommunications and networking to security and power switching. Common features on many include 1,500V FCC breakdown voltage and both standard and high sensitivity coils.

**** All relays are UL, CSA approved***

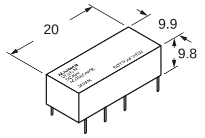
DF Series



DSP Series



DS2E Series



DS2Y Series

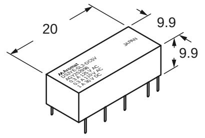


Fig.	Cont. Arrange.	Coil Volt	Coil Res.	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	125 VAC	Pickup/ Dropout Max. Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Aromat Part No.
DF Series General Purpose Relays													
1	DPDT	5VDC	125	40	1	.3	3.5/0.5/6	255-1037-ND	4.85	4.46	3.96	3.37	DF2E-DC5V
	DPDT	12VDC	720	16.7	1	.3	8.4/1.2/14.4	255-1038-ND	4.85	4.46	3.96	3.37	DF2E-DC12V
	DPDT	24VDC	2,880	8.3	1	.3	16.8/2.4/28.8	255-1039-ND	4.85	4.46	3.96	3.37	DF2E-DC24V
DF Series Dual Coil Latching Relays													
2	DPDT	3VDC	45	66.7	1	.3	2.1/2.1/3.6	255-1040-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC3V
	DPDT	5VDC	125	40	1	.3	4/4/6	255-1041-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC5V
	DPDT	6VDC	180	33.3	1	.3	4.2/4.2/7.2	255-1042-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC6V
	DPDT	9VDC	405	22.2	1	.3	6.3/6.3/10.8	255-1043-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC9V
	DPDT	12VDC	720	16.7	1	.3	9.6/9.6/18	255-1044-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC12V
	DPDT	24VDC	2,880	8.3	1	.3	19.2/19.2/28.8	255-1045-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC24V
DSP Series General Purpose Relays													
3	DPST-NO/NC	5VDC	83	60	5	5	4/0.5/6.5	255-1046-ND	6.98	6.42	5.70	4.85	DSP1-DC5V
	DPST-NO/NC	12VDC	480	25	5	5	9.6/1.2/15.6	255-1047-ND	6.98	6.42	5.70	4.85	DSP1-DC12V
	DPST-NO/NC	24VDC	1,920	12.5	5	5	19.2/2.4/31.2	255-1048-ND	6.98	6.42	5.70	4.85	DSP1-DC24V
4	SPST-NO	5VDC	83	60	8	8	4/0.5/6.5	255-1049-ND	6.20	5.70	5.06	4.31	DSP1A-DC5V
	SPST-NO	12VDC	480	25	8	8	9.6/1.2/15.6	255-1050-ND	6.20	5.70	5.06	4.31	DSP1A-DC12V
	SPST-NO	24VDC	1,920	12.5	8	8	19.2/2.4/31.2	255-1051-ND	6.20	5.70	5.06	4.31	DSP1A-DC24V
5	DPST-NO	5VDC	83	60	5	5	4/0.5/6.5	255-1052-ND	6.86	6.30	5.60	4.76	DSP2A-DC5V
	DPST-NO	12VDC	480	25	5	5	9.6/1.2/15.6	255-1053-ND	6.86	6.30	5.60	4.76	DSP2A-DC12V
	DPST-NO	24VDC	1,920	12.5	5	5	19.2/2.4/31.2	255-1054-ND	6.86	6.30	5.60	4.76	DSP2A-DC24V
DSP Series Dual Latching General Purpose Relays													
6	DPST	5VDC	83	60	5	5	4/4/6.5	255-1055-ND	7.37	6.78	6.02	5.12	DSP1-L2-DC5V
	DPST	12VDC	480	25	5	5	9.6/9.6/15.6	255-1056-ND	7.37	6.78	6.02	5.12	DSP1-L2-DC12V
	DPST	24VDC	1,920	12.5	5	5	19.2/19.2/31.2	255-1057-ND	7.37	6.78	6.02	5.12	DSP1-L2-DC24V
DSP Relay Sockets													
—	PCB Mount Relay Socket for DSP1A Relays							255-1058-ND	2.57	2.37	2.10	1.79	DSP1A-PS
	PCB Mount Relay Socket for DSP1A-L2 Relays							255-1059-ND	3.01	2.77	2.46	2.10	DSP1A-PSL2
	PCB Mount Relay Socket for DSP2A & DSP1 Relays							255-1060-ND	3.53	3.24	2.88	2.45	DSP2A-PS
	PCB Mount Relay Socket for DSP2A-L2 & DSP1-L2 Relays							255-1061-ND	3.77	3.47	3.08	2.62	DSP2A-PSL2
DS2E Series Telcom Relays (High Sensitivity and Standard Coils)													
7	DPDT	5VDC	125	40	2	.6	4/3.5/7.5	255-1062-ND	4.04	3.72	3.30	2.81	DS2E-S-DC5V
	DPDT	12VDC	720	16.6	2	.6	8.4/1.2/18	255-1063-ND	4.04	3.72	3.30	2.81	DS2E-S-DC12V
	DPDT	24VDC	2,880	8.3	2	.6	16.8/2.4/36	255-1064-ND	4.04	3.72	3.30	2.81	DS2E-S-DC24V
	DPDT	48VDC	11,520	4.1	2	.6	33.6/4.8/76.8	255-1065-ND	5.49	5.04	4.48	3.81	DS2E-S-DC48V
7	DPDT	5VDC	62.5	80	2	.6	3.5/0.5/7.5	255-1070-ND	3.26	3.00	2.66	2.27	DS2E-M-DC5V
	DPDT	12VDC	360	33.2	2	.6	8.4/1.2/18	255-1071-ND	3.26	3.00	2.66	2.27	DS2E-M-DC12V
	DPDT	24VDC	1,440	16.6	2	.6	16.8/2.4/36	255-1072-ND	3.26	3.00	2.66	2.27	DS2E-M-DC24V
	DPDT	48VDC	5,760	8.3	2	.6	33.6/4.8/76.8	255-1073-ND	4.07	3.74	3.32	2.83	DS2E-M-DC48V
DS2E Series Telcom Dual Coil Latching Relays (High Sensitivity and Standard Coils)													
8	DPDT	5VDC	125	35.9	2	.6	3.5/3.5/10	255-1066-ND	4.78	4.39	3.90	3.32	DS2E-SL2-DC5V
	DPDT	12VDC	720	15	2	.6	8.4/8.4/24	255-1067-ND	4.78	4.39	3.90	3.32	DS2E-SL2-DC12V
	DPDT	24VDC	2,880	7.5	2	.6	16.8/16.8/48	255-1068-ND	4.78	4.39	3.90	3.32	DS2E-SL2-DC24V
	DPDT	48VDC	11,520	3.25	2	.6	33.6/33.6/96	255-1069-ND	5.71	5.25	4.66	3.97	DS2E-SL2-DC48V
8	DPDT	5VDC	62.5	72	2	.6	3.5/3.5/7.5	255-1074-ND	3.87	3.56	3.16	2.69	DS2E-ML2-DC5V
	DPDT	12VDC	360	30	2	.6	8.4/8.4/18	255-1075-ND	3.87	3.56	3.16	2.69	DS2E-ML2-DC12V
	DPDT	24VDC	1440	15	2	.6	16.8/16.8/36	255-1076-ND	3.87	3.56	3.16	2.69	DS2E-ML2-DC24V
	DPDT	48VDC	5,760	7.5	2	.6	33.6/33.6/72	255-1077-ND	5.17	4.75	4.22	3.59	DS2E-ML2-DC48V
NEW! DQ Series Power Latching Relays NEW!													
9	SPST	4.5VDC	12.7	355.6	30A @ 250VAC		3.15/3.15/5.85	255-1442-ND	18.79	17.26	15.34	13.04	ADQ23Q04H
	SPST	12VDC	90	133.3	30A @ 250VAC		8.4/8.4/15.6	255-1443-ND	18.79	17.26	15.34	13.04	ADQ23Q012
	SPST	24VDC	360	66.7	30A @ 250VAC		16.8/16.8/31.2	255-1444-ND	18.79	17.26	15.34	13.04	ADQ23Q024
DS2Y Series Telcom Relays													
10	DPDT	5VDC	125	40	2	.3	3.5/0.5/10	255-1078-ND	2.65	2.43	2.16	1.84	DS2Y-S-DC5V
	DPDT	12VDC	720	16.7	2	.3	8.4/1.2/24	255-1079-ND	2.65	2.43	2.16	1.84	DS2Y-S-DC12V
	DPDT	24VDC	2,880	8.3	2	.3	16.8/2.4/48	255-1080-ND	2.74	2.52	2.24	1.91	DS2Y-S-DC24V
	DPDT	48VDC	7,680	6.3	2	.3	33.6/4.8/86	255-1081-ND	3.68	3.38	3.00	2.55	DS2Y-S-DC48V

† Au-plated

(Bottom view shown)

Fig. 1 *DF Series*

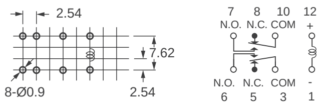


Fig. 2

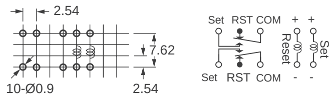


Fig. 3 *DSP Series*

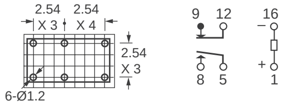


Fig. 4

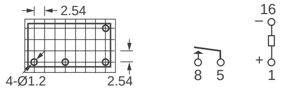


Fig. 5

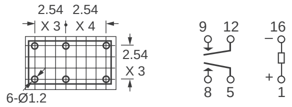
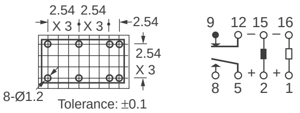


Fig. 6



Tolerance: ±0.1

Fig. 7 *DS2E Series*

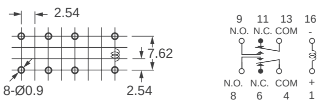


Fig. 8

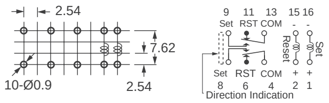


Fig. 9 *NEW!* *DQ Series*

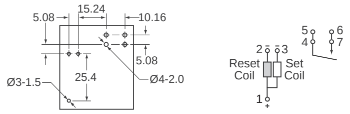
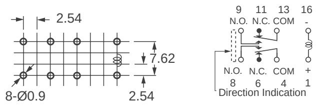


Fig. 10 *DS2Y Series*



(Continued)

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General Purpose PC Mount Relays *(Cont.)*

Fig.	Cont. Arrange.	Coil Volt	Coil Res.	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	125 VAC	Pickup/ Dropout Max. Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Aromat Part No.
	DS2Y Series Telcom Dual Coil Latching Relays												
11	DPDT	5VDC	139	36	2	.3	3.5/3.5/10	255-1082-ND	3.04	2.79	2.48	2.11	DS2Y-SL2-DC5V
	DPDT	12VDC	800	15	2	.3	8.4/8.4/24	255-1083-ND	3.04	2.79	2.48	2.11	DS2Y-SL2-DC12V
	DPDT	24VDC	3,200	7.5	2	.3	16.8/16.8/48	255-1084-ND	3.04	2.79	2.48	2.11	DS2Y-SL2-DC24V
	LK Series Slim High Inrush Power Relays												
12	SPST-NO	12VDC	272	44.2	5	5	8.4/1.2/15.6	255-1266-ND	1.59	1.47	1.30	1.11	LK1AF-12V
	SPST-NO	24VDC	1,087	22.1	5	5	16.8/2.4/31.2	255-1267-ND	1.69	1.56	1.38	1.18	LK1AF-24V
	LKS Series High Sensitivity Power Relays												
12	SPST-NO	5VDC	100	50	5	5	3.5/0.5/6.5	255-1268-ND	1.37	1.26	1.12	.96	LKS1AF-5V
	SPST-NO	12VDC	576	20.8	5	5	8.4/1.2/15.6	255-1269-ND	1.37	1.26	1.12	.96	LKS1AF-12V
	SPST-NO	24VDC	2,304	10.4	5	5	16.8/2.4/31.2	255-1270-ND	1.45	1.33	1.18	1.01	LKS1AF-24V
	LKP Series Slim Power Relays												
12	SPST	12VDC	400	30	10	5	8.4/1.2/15.6	255-1271-ND	1.62	1.49	1.32	1.13	LKP1AF-12V
	SPST	24VDC	1,600	15	10	5	16.8/2.4/31.2	255-1272-ND	1.64	1.51	1.34	1.14	LKP1AF-24V
	LA Series Slim Power Relays												
13	DPST	5VDC	100	50	3	3	3.5/0.5/6.5	255-1273-ND	1.52	1.40	1.24	1.06	ALA2F05
	DPST	12VDC	272	44.2	3	3	9.0/0.6/15.6	255-1274-ND	1.52	1.40	1.24	1.06	ALA2F12
	DPST	24VDC	1,087	22.1	3	3	18/1.2/31.2	255-1275-ND	1.54	1.42	1.26	1.08	ALA2F24
	NEW PE Series Slim Power Relays NEW!												
14	SPST	4.5VDC	119	38	6A @ 250VAC		2.97/0.225/5.4	255-1450-ND	3.94	3.63	3.22	2.74	APE1004H
	SPST	12VDC	847	14	6A @ 250VAC		7.92/0.6/14.4	255-1451-ND	3.94	3.63	3.22	2.74	APE10012
	SPST	4.5VDC	119	38	6A @ 250VAC		2.97/0.225/5.4	255-1452-ND†	4.41	4.05	3.60	3.06	APE1014H
	SPST	12VDC	847	14	6A @ 250VAC		7.92/0.6/14.4	255-1453-ND†	4.41	4.05	3.60	3.06	APE10112
14	SPDT	4.5VDC	119	38	6A @ 250VAC		2.97/0.225/5.4	255-1454-ND†	4.83	4.44	3.94	3.35	APE3014H
	SPDT	12VDC	847	14	6A @ 250VAC		7.92/0.6/14.4	255-1455-ND†	4.83	4.44	3.94	3.35	APE30112
	ST Series IC Drivable Power Relays												
15A	DPST-O/C	5VDC	105	47	8	8	4.0/0.5/7.5	255-1288-ND	11.96	10.98	9.76	8.30	ST1-DC5V
	DPST-O/C	12VDC	600	20	8	8	9.6/1.2/18	255-1289-ND	11.96	10.98	9.76	8.30	ST1-DC12V
	DPST-O/C	24VDC	2,400	10	8	8	19.2/2.4/36	255-1290-ND	11.96	10.98	9.76	8.30	ST1-DC24V
15B	DPST-NO	5VDC	105	47	8	8	4.0/0.5/7.5	255-1291-ND	12.62	11.59	10.30	8.76	ST2-DC5V
	DPST-NO	12VDC	600	20	8	8	9.6/1.2/18	255-1292-ND	12.62	11.59	10.30	8.76	ST2-DC12V
	DPST-NO	24VDC	2,400	10	8	8	19.2/2.4/36	255-1293-ND	12.62	11.59	10.30	8.76	ST2-DC24V
—	PCB Mount Relay Socket for ST Series Relays							255-1294-ND	2.45	2.25	2.00	1.70	ST-PS

† Au-plated

Fig. 11 *DS2Y Series*

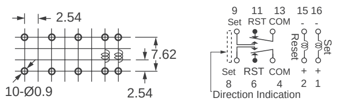


Fig. 12 *LK Series*

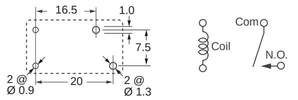


Fig. 13 *LA Series*

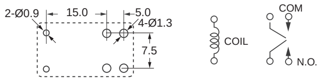


Fig. 14 *NEW! PE Series*

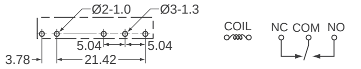
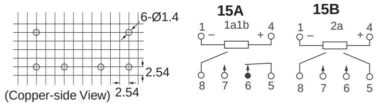


Fig. 15 *ST Series*



G

Bottom view shown unless otherwise noted.

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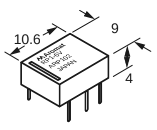
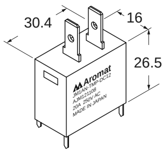
High Frequency and Power Relays

All relays are UL, CSA approved

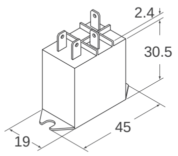
RP Series



JM Series



JC Series



JA Series

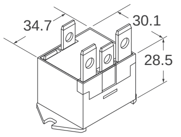


Fig.	Cont. Arrange.	Coil Volt	Coil Res.	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	125 VAC	Pickup/Dropout Max. Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Aromat Part No.
	RK Series High Frequency Relays												
1	SPDT	5VDC	125	40	.01	—	3.75/0.5/5.5	255-1085-ND	9.26	8.51	7.56	6.43	RK1-5V
	SPDT	6VDC	180	34	.01	—	4.5/0.6/6.6	255-1086-ND	9.26	8.51	7.56	6.43	RK1-6V
	SPDT	12VDC	720	17	.01	—	9/1.2/13.2	255-1087-ND	9.26	8.51	7.56	6.43	RK1-12V
	SPDT	24VDC	2,880	9	.01	—	18/2.4/26.4	255-1088-ND	9.53	8.76	7.78	6.62	RK1-24V
	RP Series High Frequency Low Profile Relays												
2	SPDT	5VDC	178	28	.1	—	3.75/0.5/7.5	255-1089-ND	21.78	20.01	17.78	15.12	RP1-5V
	SPDT	12VDC	1,028	11.7	.1	—	9/1.2/18	255-1090-ND	21.78	20.01	17.78	15.12	RP1-12V
	SPDT	24VDC	2,133	11.3	.1	—	18/2.4/28.8	255-1091-ND	22.39	20.57	18.28	15.54	RP1-24V
	NEW! RJ Series High Frequency Relays NEW!												
3	DPDT	4.5VDC	101.2	44.4	.3	—	3.375/0.45/4.95	255-1459-ND	153.69	141.15	125.46	106.65	ARJ204H
	DPDT	12VDC	720	16.6	.3	—	9/1.2/13.2	255-1460-ND	153.69	141.15	125.46	106.65	ARJ2012
	DPDT	4.5VDC	101.2	44.4	.3	—	3.375/0.45/4.95	255-1461-ND*	153.69	141.15	125.46	106.65	ARJ20A4H
	DPDT	12VDC	720	16.6	.3	—	9/1.2/13.2	255-1462-ND*	153.69	141.15	125.46	106.65	ARJ20A12

* Surface Mount

Fig. 1 *RK Series*

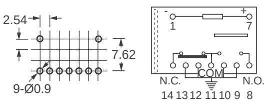


Fig. 2 *RP Series*

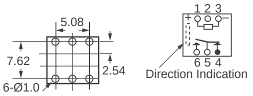
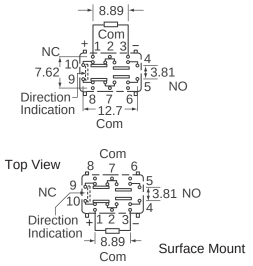


Fig. 3 *NEW! RJ Series*



(Continued)

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High Frequency and Power Relays *(Cont.)*

Fig.	Cont. Arrange.	Coil Volt	Coil Res.	Coil Curr. (mA)	Contact Ratings (A)		Pickup/Dropout Max. Voltage	Digi-Key Part No.	Price Each				Aromat Part No.
					30 VDC	125 VAC			1	25	50	100	
HY Series General Purpose Relays													
4	SPDT	3VDC	60	50	1	—	2.25/0.3/4.2	255-1391-ND	3.16	2.91	2.58	2.20	HY1-3V
	SPDT	5VDC	166	30.1	1	—	3.75/0.5/6.5	255-1092-ND	3.16	2.91	2.58	2.20	HY1-5V
	SPDT	12VDC	960	12.5	1	—	9/1.2/15.6	255-1093-ND	3.16	2.91	2.58	2.20	HY1-12V
	SPDT	24VDC	3,840	6.25	1	—	18/2.4/31.2	255-1094-ND	3.97	3.65	3.24	2.76	HY1-24V
DK Series General Purpose Relays													
5	SPST	5VDC	125	40	10	10	3.5/0.5/6.5	255-1095-ND	7.37	6.78	6.02	5.12	DK1A-5V
	SPST	12VDC	720	16.6	10	10	8.4/8.4/15.6	255-1096-ND	7.37	6.78	6.02	5.12	DK1A-12V
	SPST	24VDC	2,880	8.3	10	10	16.8/2.4/31.2	255-1097-ND	7.37	6.78	6.02	5.12	DK1A-24V
6	DPST	5VDC	125	40	8	8	3.5/0.5/6.5	255-1098-ND	10.83	9.95	8.84	7.52	DK1A1B-5V
	DPST	12VDC	720	16.6	8	8	8.4/1.2/15.6	255-1099-ND	10.83	9.95	8.84	7.52	DK1A1B-12V
	DPST	24VDC	2,880	8.3	8	8	16.8/2.4/31.2	255-1100-ND	10.83	9.95	8.84	7.52	DK1A1B-24V
—	PCB Mount Relay Socket for DK1A Relays							255-1101-ND	4.02	3.69	3.28	2.79	DK1A-PS
	PCB Mount Relay Socket for DK1A1B Relays							255-1102-ND	3.99	3.67	3.26	2.78	DK2A-PS
JQ Series High Noise Immunity Power Relays													
7	SPDT	5VDC	62.5	80	5	5	3.75/.25/7.5	255-1263-ND	3.28	3.02	2.68	2.28	JQ1-5V
	SPDT	12VDC	360	33	5	5	9.6/1.2/20	255-1264-ND	3.28	3.02	2.68	2.28	JQ1-12V
	SPDT	24VDC	1,440	16.7	5	5	19.2/2.4/36	255-1265-ND	3.28	3.02	2.68	2.28	JQ1-24V
8	SPST	5VDC	62.5	80	5	5	3.75/.25/7.5	255-1463-ND *NEW!*	2.99	2.75	2.44	2.08	JQ1A-5V
	SPST	12VDC	360	33	5	5	9.6/1.2/20	255-1464-ND *NEW!*	2.99	2.75	2.44	2.08	JQ1A-12V
	SPST	24VDC	1,440	16.7	5	5	19.2/2.4/36	255-1465-ND *NEW!*	2.99	2.75	2.44	2.08	JQ1A-24V
JS Series Power Relays													
9	SPDT	5VDC	69.4	72	5	10	3.5/0.5/6.5	255-1103-ND	1.20	1.11	.98	.84	JS1-5V
	SPDT	12VDC	400	30	5	10	8.4/1.2/15.6	255-1104-ND	1.20	1.11	.98	.84	JS1-12V
	SPDT	24VDC	1,600	15	5	10	16.8/2.4/36	255-1105-ND	1.30	1.20	1.06	.91	JS1-24V
10	SPST-NO	5VDC	69.4	72	5	10	3.5/0.5/7.5	255-1106-ND	1.15	1.06	.94	.80	JS1A-5V
	SPST-NO	12VDC	400	30	5	10	8.4/1.2/18	255-1107-ND	1.15	1.06	.94	.80	JS1A-12V
	SPST-NO	24VDC	1,600	15	5	10	16.8/2.4/36	255-1108-ND	1.18	1.08	.96	.82	JS1A-24V
JSM Series Automotive Power Relays													
11	SPDT	12VDC	225	53.3	10	—	6.3/.9/16	255-1239-ND	1.30	1.20	1.06	.91	JSM1-12V-4
	SPDT	12VDC	225	53.3	15	—	6.3/.9/16	255-1240-ND	1.42	1.31	1.16	.99	JSM1-12V-5
JR Series Power Relays													
12	SPST-NO	6VDC	68	88	16	16	4.8/0.6/6.6	255-1109-ND	3.92	3.60	3.20	2.72	JR1AF-DC6V
	SPST-NO	12VDC	270	44	16	16	9.6/1.2/13.2	255-1110-ND	3.92	3.60	3.20	2.72	JR1AF-DC12V
	SPST-NO	24VDC	1,100	22.1	16	16	19.2/2.4/26.4	255-1111-ND	3.92	3.60	3.20	2.72	JR1AF-DC24V
	SPST-NO	48VDC	4,350	11	16	16	38.4/4.8/52.8	255-1112-ND	3.92	3.60	3.20	2.72	JR1AF-DC48V
JW Series Power Relays													
13	SPDT	5VDC	47	106	10	10	3.5/0.5/6.5	255-1113-ND	2.06	1.89	1.68	1.43	JW1FSN-DC5V
	SPDT	12VDC	270	44	10	10	8.4/1.2/15.6	255-1114-ND	2.06	1.89	1.68	1.43	JW1FSN-DC12V
	SPDT	24VDC	1,100	16.8	10	10	16.8/2.4/31.2	255-1115-ND	2.16	1.98	1.76	1.50	JW1FSN-DC24V
14	DPDT	5VDC	47	106	5	5	3.5/0.5/6.5	255-1116-ND	2.33	2.14	1.90	1.62	JW2SN-DC5V
	DPDT	12VDC	270	44	5	5	8.4/1.2/15.6	255-1117-ND	2.33	2.14	1.90	1.62	JW2SN-DC12V
	DPDT	24VDC	1,100	16.8	5	5	16.8/2.4/31.2	255-1118-ND	2.47	2.28	2.02	1.72	JW2SN-DC24V
	DPDT	48VDC	4,400	11	5	5	33.6/4.8/62.4	255-1119-ND	2.55	2.34	2.08	1.77	JW2SN-DC48V
15	SPST-NO	12VDC	270	44	10	10	8.4/1.2/15.6	255-1120-ND	1.94	1.78	1.58	1.35	JW1AFSN-DC12V
	SPST-NO	24VDC	1,100	16.8	10	10	16.8/2.4/31.2	255-1121-ND	2.01	1.85	1.64	1.40	JW1AFSN-DC24V
JM Series Power Relays													
16	SPST-NO	5VDC	27.8	180	20	20	3.5/0.5/5.5	255-1122-ND	8.94	8.22	7.30	6.21	JM1AN-TMP-DC5V
	SPST-NO	12VDC	160	75	20	20	8.4/1.2/13.2	255-1123-ND	8.94	8.22	7.30	6.21	JM1AN-TMP-DC12V
	SPST-NO	24VDC	640	37.5	20	20	16.8/2.4/26.4	255-1124-ND	8.94	8.22	7.30	6.21	JM1AN-TMP-DC24V
JC Series Power Relays													
17	SPST-NO	6VDC	40	150	15	15	4.8/0.6/6.6	255-1125-ND	5.61	5.16	4.58	3.90	JC1AF-DC6V
	SPST-NO	12VDC	160	75	15	15	9.6/1.2/13.2	255-1126-ND	5.61	5.16	4.58	3.90	JC1AF-DC12V
	SPST-NO	24VDC	640	37.5	15	15	19.2/2.4/26.4	255-1127-ND	5.61	5.16	4.58	3.90	JC1AF-DC24V
JC Series Compact Power Relays, Top Mount Type													
18	SPST-NO	12VDC	160	75	15	15	9.6/1.2/13.2	255-1416-ND	5.61	5.16	4.58	3.90	JC1AF-TM-DC12V
	SPST-NO	24VDC	640	37.5	15	15	19.2/2.4/26.4	255-1417-ND	5.61	5.16	4.58	3.90	JC1AF-TM-DC24V
JA Series Power Relays (15A Steady State Inductive, 55A Inrush)													
19	SPDT	12VDC	120	100	15	15	9.6/1.2/13.2	255-1129-ND	9.43	8.67	7.70	6.55	JA1C-TM-DC12V
	SPDT	24VDC	480	50	15	15	19.2/2.4/26.4	255-1130-ND	9.43	8.67	7.70	6.55	JA1C-TM-DC24V
	SPDT	12VAC	—	108	15	15	9.6/3.6/13.2	255-1131-ND	9.43	8.67	7.70	6.55	JA1C-TM-AC12V
	SPDT	24VAC	—	54	15	15	19.2/7.2/26.4	255-1132-ND	9.43	8.67	7.70	6.55	JA1C-TM-AC24V
	SPDT	115VAC	—	11	15	15	92/34.5/126.5	255-1133-ND	10.41	9.57	8.50	7.23	JA1C-TM-AC115V
	SPDT	240VAC	—	13	15	15	192/72/264	255-1134-ND	11.66	10.71	9.52	8.10	JA1C-TM-AC240V
	SPDT	12VDC	120	100	25	25	9.6/1.2/13.2	255-1135-ND	9.85	9.05	8.04	6.84	JA1C-TM-DC12V-P
	SPDT	115VAC	—	11	25	25	92/34.5/126.5	255-1136-ND	11.05	10.15	9.02	7.67	JA1C-TM-AC115V-P
	SPDT	240VAC	—	13	25	25	192/72/264	255-1137-ND	12.30	11.30	10.04	8.54	JA1C-TM-AC240V-P
	SPST-NO	6VDC	30	200	15	15	4.8/0.6/6.6	255-1138-ND	8.62	7.92	7.04	5.99	JA1A-TM-DC6V
	SPST-NO	12VDC	120	100	15	15	9.6/1.2/13.2	255-1139-ND	8.62	7.92	7.04	5.99	JA1A-TM-DC12V
	SPST-NO	24VDC	480	50	15	15	19.2/2.4/26.4	255-1140-ND	8.62	7.92	7.04	5.99	JA1A-TM-DC24V
	SPST-NO	24VAC	—	54	15	15	19.2/7.2/26.4	255-1141-ND	8.62	7.92	7.04	5.99	JA1A-TM-AC24V
	SPST-NO	115VAC	—	11	15	15	92/34.5/126.5	255-1142-ND	9.70	8.91	7.92	6.74	JA1A-TM-AC115V

* Surface Mount

Fig. 4 *HY Series*

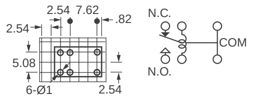


Fig. 5 *DK Series*

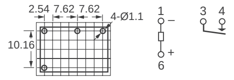


Fig. 6

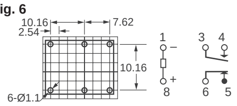


Fig. 7 *JQ Series*

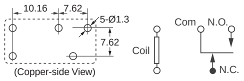


Fig. 8 *NEW!*

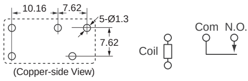


Fig. 9 *JS Series*

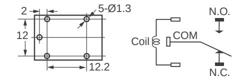


Fig. 10

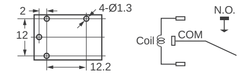


Fig. 11 *JSM Series*

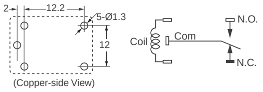


Fig. 12 *JR Series*

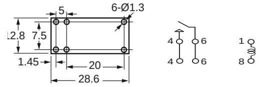


Fig. 13 *JW Series*

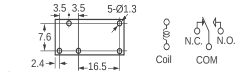


Fig. 14

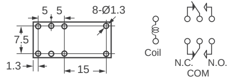


Fig. 15

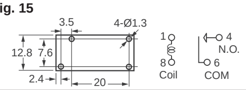


Fig. 16 *JM Series*

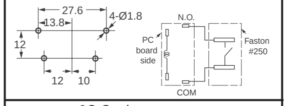


Fig. 17 *JC Series*

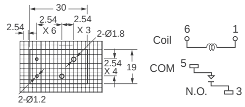


Fig. 18

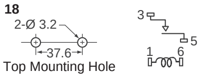
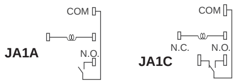


Fig. 19 *JA Series*



General Purpose PC Mount Relays

All relays are UL, CSA approved

Mounting hole connection diagrams are all bottom view unless otherwise noted

Fig. 1 — T7C Series

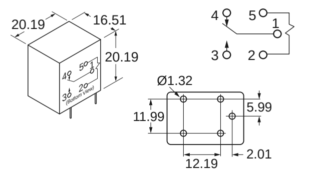


Fig. 2 — T7N Series

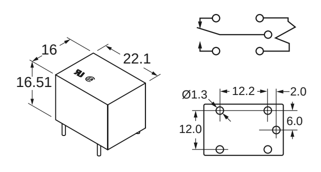


Fig. 3 — T73 Series

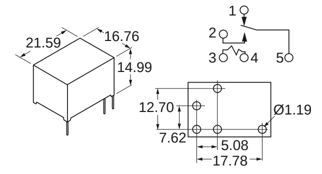


Fig. 4 — T75 Series

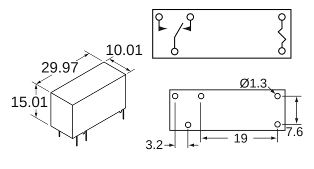


Fig. 5 — T77 Series

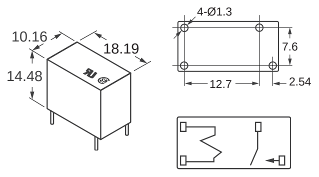


Fig. 6 — T81 Series

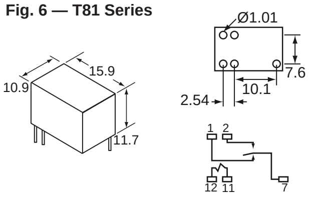


Fig. 7— V23079 Series

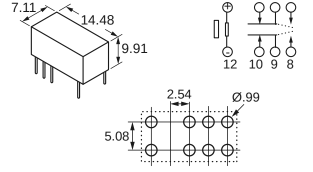


Fig. 8 — V23105 Series

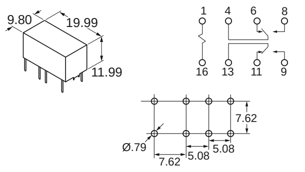


Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Coil Power (mW)	Contact Rating (A)	Operate Volt Release Volt pull/drop/max	Turn-on Turn-off (mSec)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
T7C Series — Economical (Ideal for Appliance and Automotive Applications)												
1	SPDT	5 VDC	71.4	360	12	3.5/0.5/5.5 VDC	10 / 5	PB335-ND	1.32	1.16	1.05	T7CS5D-05
	SPDT	6 VDC	60	360	12	4.5/0.3/6.6 VDC	10 / 5	PB336-ND	1.32	1.16	1.05	T7CS5D-06
	SPDT	12 VDC	30	360	12	9/0.6/13.2 VDC	10 / 5	PB337-ND	1.32	1.16	1.05	T7CS5D-12
	SPDT	24 VDC	15	360	12	18/1.2/26.4 VDC	10 / 5	PB338-ND	1.32	1.16	1.05	T7CS5D-24
	SPDT	12VDC	30	360	12	9/0.6/13.2VDC	10 / 5	PB441-ND•	1.30	1.14	1.03	T7CV5D-12
T7N Series Power Relay												
2	SPDT	5 VDC	71.5	360	10	3.5/.25/5	10 / 5	PB379-ND	1.30	1.14	1.03	T7NS5D1-05
	SPDT	12 VDC	30	360	10	8.4/.60/12	10 / 5	PB380-ND	1.30	1.14	1.03	T7NS5D1-12
	SPDT	24 VDC	15	360	10	16.8/1.2/24	10 / 5	PB381-ND	1.30	1.14	1.03	T7NS5D1-24
	SPDT	48 VDC	7.5	360	10	33.6/2.4/48	10 / 5	PB382-ND	1.70	1.50	1.35	T7NS5D1-48
T73 Series — Low Profile Relay - Meets 3,500 Volt Surge												
3	SPDT	5 VDC	89	450	10	3.25/.25/5 VDC	10 / 5	PB364-ND	1.97	1.73	1.56	T73S5D15-05
	SPDT	12 VDC	37.5	450	10	7.8/.6/12 VDC	10 / 5	PB365-ND	1.97	1.73	1.56	T73S5D15-12
	SPDT	24 VDC	20.9	450	10	15.6/1.2/24 VDC	10 / 5	PB366-ND	1.97	1.73	1.56	T73S5D15-24
T75 Series — Miniature Relay												
4	SPDT	5VDC	42.4	230	14	3.6/0.5/5VDC	6 / 2.5	PB442-ND	2.86	2.50	2.27	T75S5D112-05
	SPDT	12VDC	18.5	230	14	8.64/1.2/12VDC	6 / 2.5	PB443-ND	4.01	3.51	3.18	T75S5D112-12
	SPDT	24VDC	10.6	230	14	17.28/2.4/24VDC	6 / 2.5	PB444-ND	3.43	3.01	2.72	T75S5D112-24
T77 Series Power Relay — Sealed and Semi-sealed												
5	SPST-NO	5 VDC	90	450	10	3.75/.25/5	10 / 4	PB367-ND	1.46	1.29	1.16	T77S1D10-05
	SPST-NO	12 VDC	37.5	450	10	9.0/.6/12	10 / 4	PB368-ND	1.46	1.29	1.16	T77S1D10-12
	SPST-NO	24 VDC	18.75	450	10	18/1.2/24	10 / 4	PB369-ND	1.46	1.29	1.16	T77S1D10-24
	SPST-NO	24VDC	18.75	450	10	18/1.2/24VDC	10 / 4	PB445-ND•	1.46	1.29	1.16	T77V1D10-24
	SPST-NO	5 VDC	40	200	3	3.75/.25/5	10 / 4	PB370-ND	1.46	1.29	1.16	T77S1D3-05
	SPST-NO	12 VDC	16.7	200	3	9.0/.6/12	10 / 4	PB371-ND	1.46	1.29	1.16	T77S1D3-12
	SPST-NO	24 VDC	8.3	200	3	18/1.2/24	10 / 4	PB372-ND	1.46	1.29	1.16	T77S1D3-24
T81 Series — High Density Telcom Relay												
6	SPDT	5VDC	89.5	450	0.5	3.5/.25/5VDC	5 / 2	PB446-ND	2.62	2.29	2.08	T81H5D312-05
	SPDT	12VDC	37.5	450	0.5	8.4/0.6/12VDC	5 / 2	PB447-ND	3.19	2.80	2.53	T81N5D312-12
	SPDT	24VDC	18.75	450	0.5	16.8/1.2/24VDC	5 / 2	PB448-ND	2.52	2.21	2.00	T81N5D312-24
V23079 Series — FCC Part 68, High Dielectric Relay												
7	DPDT	5 VDC	28	140	2	3.75/0.5/10.9 VDC	2 / 2	PB288-ND	2.14	1.87	1.70	V23079A1001B301
	DPDT	12 VDC	11.6	140	2	8.4/1.2/26.1 VDC	2 / 2	PB289-ND	2.14	1.87	1.70	V23079A1003B301
V23105 Series — Nonpolarized Dip Package Relay												
8	DPDT	5 VDC	30	150	3	3.5/.25/5	4.5 / 1.5	PB383-ND	1.68	1.47	1.33	V23105A5001A201
	DPDT	12 VDC	12.5	150	3	8.4/.60/12	4.5 / 1.5	PB384-ND	1.68	1.47	1.33	V23105A5003A201
	DPDT	24 VDC	6.25	150	3	16.8/1.2/24	4.5 / 1.5	PB385-ND	1.78	1.56	1.41	V23105A5005A201
	DPDT	5 VDC	40	200	3	3.5/.25/5	4.5 / 1.5	PB386-ND	1.68	1.47	1.33	V23105A5301A201
	DPDT	12 VDC	16.7	200	3	8.4/.60/12	4.5 / 1.5	PB387-ND	1.68	1.47	1.33	V23105A5303A201
	DPDT	24 VDC	8.33	200	3	16.8/1.2/24	4.5 / 1.5	PB388-ND	1.78	1.56	1.41	V23105A5305A201
	DPDT	48 VDC	4.16	200	3	33.6/2.4/48	4.5 / 1.5	PB389-ND	2.50	2.19	1.98	V23105A5307A201
V23026 Series — Miniature Sealed Relay (Up to 1 Billion Operations!)												
9	SPDT	5 VDC	13.5	68	1	3.75/0.5/14.5 VDC	1 / 1	PB282-ND	2.54	2.23	2.02	V23026A1001B201
	SPDT	12 VDC	5.3	68	1	8.4/1.2/12 VDC	1 / 1	PB283-ND	2.54	2.23	2.02	V23026A1002B201
	SPDT	24 VDC	5.3	68	1	16.8/2.4/50 VDC	1 / 1	PB284-ND	2.86	2.50	2.27	V23026A1004B201
10	SPDT	5 VDC	16	80	1	3.75/0.5/13.3 VDC	1 / 1	PB285-ND	2.81	2.46	2.23	V23026D1021B201
	SPDT	12 VDC	6.6	80	1	8.4/1.2/32 VDC	1 / 1	PB286-ND	2.81	2.46	2.23	V23026D1022B201
	SPDT	24 VDC	5.3	80	1	16.8/2.4/50 VDC	1 / 1	PB287-ND	3.02	2.65	2.40	V23026D1024B201
RT Series — Low Profile Power PCB Relay												
11-A	SPDT	5 VDC	80	400	12	3.5/0.5/5 VDC	7 / 3	PB359-ND	1.92	1.68	1.52	RTB14005F
	SPDT	12 VDC	33.3	400	12	8.4/1.2/12 VDC	7 / 3	PB360-ND	1.51	1.26	1.20	RTB14012F
	SPDT	12VDC	33.3	400	12	8.4/1.2/12VDC	7 / 3	PB449-ND•	3.02	2.65	2.40	RT114012F
	SPDT	24 VDC	16.7	400	12	16.8/1.2/24 VDC	7 / 3	PB361-ND	1.51	1.33	1.20	RTB14024F
11-B	SPST-NO	12 VDC	33.3	400	12	8.4/1.2/12 VDC	7 / 3	PB362-ND	3.02	2.65	2.40	RTB34012F
	SPST-NO	24 VDC	16.7	400	12	16.8/1.2/24 VDC	7 / 3	PB363-ND	2.81	2.46	2.23	RTB34024F
11-C	SPDT	5 VDC	80	400	16	3.5/0.5/5 VDC	7 / 3	PB291-ND	2.42	2.13	1.92	RTD14005F
	SPDT	12 VDC	33.3	400	16	8.4/1.2/12 VDC	7 / 3	PB292-ND	2.66	2.34	2.11	RTD14012F
11-D	SPST-NO	12 VDC	33.3	400	16	8.4/1.2/12 VDC	7 / 3	PB293-ND	3.02	2.65	2.40	RTD34012F
	SPST-NO	24 VDC	16.7	400	16	16.8/2.4/24 VDC	7 / 3	PB294-ND	3.02	2.65	2.40	RTD34024F
11-E	DPDT	5 VDC	80	400	8	3.5/0.5/5 VDC	7 / 3	PB295-ND	2.47	2.17	1.96	RTE24005F
	DPDT	12 VDC	33.3	400	8	8.4/1.2/12 VDC	7 / 3	PB296-ND	2.69	2.36	2.13	RTE24012F
	DPDT	24 VDC	16.7	400	8	16.8/1.2/24 VDC	7 / 3	PB297-ND	2.16	1.89	1.71	RTE24024F
11-F	DPST-NO	12VDC	33.3	400	8	8.4/1.2/12VDC	7 / 3	PB450-ND	1.82	1.60	1.45	RTE44012F

• Flux-Tight Version

Fig. 9 — V23026 Series (Through Hole)

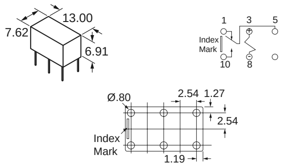


Fig. 10 — V23026 Series (Surface Mount)

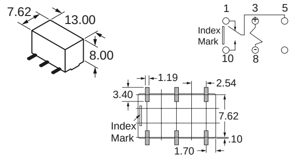
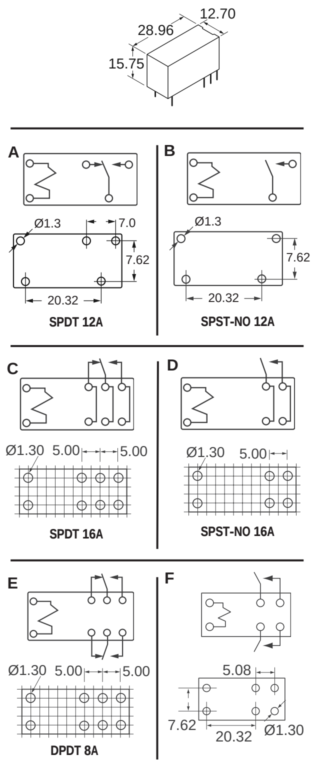


Fig. 11 — RT Series



SPDT 12A

SPST-NO 12A

SPDT 16A

SPST-NO 16A

DPDT 8A

PC Mount and General Purpose Relays

** All relays are UL, CSA approved*

Mounting hole connection diagrams are all bottom view unless otherwise noted

Fig. 1 — PE Series

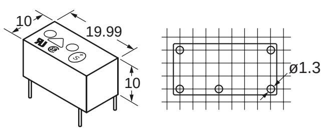


Fig. 2 — RE Series

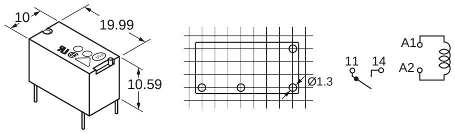


Fig. 3 — K10 Series

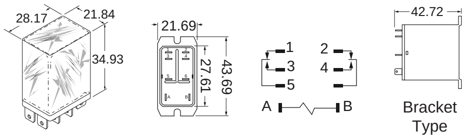


Fig. 4 — R10 Series

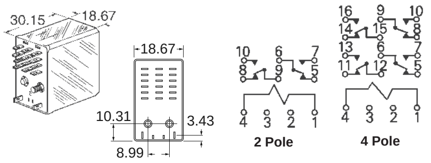


Fig. 5 — KHA/KHS Series

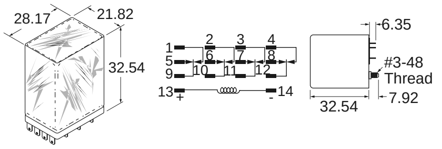


Fig. 6 — KUP Series

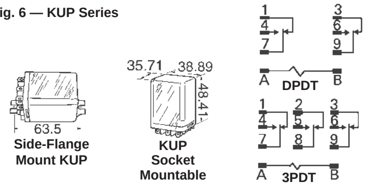


Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Operate Volt Release Volt pull/drop/max	Terminal Type Inch (mm)	Additional Features	Digi-Key Part No.	Price Each				Potter & Brumfield Part No.
									1	25	50	100	
PE Series Miniature Cadmium Free Contacts Relay													
1	SPDT	5 VDC	40	5	3.75/3.75/5 VDC	PC Mount	—	PB353-ND	3.50	3.07	2.78	2.19	PE014005
		12 VDC	16.7	5	9/1.25/12 VDC	PC Mount	—	PB354-ND	3.50	3.07	2.78	2.19	PE014012
		24 VDC	8.3	5	18/2.45/24 VDC	PC Mount	—	PB355-ND	3.50	3.07	2.78	2.19	PE014024
RE Series Lower Profile Power Relay													
2	SPST-NO	5 VDC	40	6	3.75/3.75/5 VDC	PC Mount	—	PB356-ND	4.42	3.87	3.50	2.76	RE030005
		12 VDC	16.7	6	9/1.25/12 VDC	PC Mount	—	PB357-ND	4.42	3.87	3.50	2.76	RE030012
		24 VDC	8.3	6	18/2.45/24 VDC	PC Mount	—	PB358-ND	4.42	3.87	3.50	2.76	RE030024
K10 Series - General Purpose Miniature Power Relay													
3	DPDT	12 VAC	100	15	10.2/2.4/12 VAC	.187 (4.75) QC	—	PB319-ND	7.49	6.56	5.93	4.68	K10P-11A15-12
		24 VAC	52	15	20.4/4.8/24 VAC	.187 (4.75) QC	—	PB320-ND	7.49	6.56	5.93	4.68	K10P-11A15-24
		120 VAC	11	15	102/24/120 VAC	.187 (4.75) QC	—	PB321-ND	7.49	6.56	5.93	4.68	K10P-11A15-120
		6 VDC	150	15	4.5/0.6/6 VDC	.187 (4.75) QC	—	PB323-ND	7.49	6.56	5.93	4.68	K10P-11D15-6
		12 VDC	75	15	9/1.2/12 VDC	.187 (4.75) QC	—	PB324-ND	7.49	6.56	5.93	4.68	K10P-11D15-12
		24 VDC	37	15	18/2.4/24 VDC	.187 (4.75) QC	—	PB325-ND	7.49	6.56	5.93	4.68	K10P-11D15-24
		110 VDC	10	15	82.5/11/110 VDC	.187 (4.75) QC	—	PB326-ND	7.49	6.56	5.93	4.68	K10P-11D15-110
		12 VDC	75	15	9/1.2/12 VDC	PC Mount	—	PB327-ND	7.49	6.56	5.93	4.68	K10P-11D55-12
		24 VDC	37	15	18/2.4/24 VDC	PC Mount	—	PB328-ND	7.49	6.56	5.93	4.68	K10P-11D55-24
		110 VDC	10	15	82.5/11/110VDC	PC Mount	—	PB451-ND	7.49	6.56	5.93	4.68	K10P-11D55-110
		12 VDC	75	15	9/1.2/12 VDC	.187 (4.75) QC	With Bracket	PB329-ND	7.73	6.77	6.12	4.83	K10P-11DT5-12
		24 VDC	37	15	18/2.4/24 VDC	.187 (4.75) QC	With Bracket	PB330-ND	7.73	6.77	6.12	4.83	K10P-11DT5-24
		120 VAC	11	15	102/24/120 VAC	.187 (4.75) QC	With Bracket	PB322-ND	7.73	6.77	6.12	4.83	K10P-11AT5-120
R10 Series — General Purpose Power Relay													
4	DPDT	6 VDC	115	3	4.5/0.5/6.6 VDC	Plug-In	—	PB116-ND	13.66	11.95	10.82	8.54	R10-E1Y2-V52
		12 VDC	64	3	9/1.2/13.2 VDC	Plug-In	—	PB117-ND	13.66	11.95	10.82	8.54	R10-E1Y2-V185
		24 VDC	34	3	18/2.4/26.4 VDC	Plug-In	—	PB118-ND	13.66	11.95	10.82	8.54	R10-E1Y2-V700
		48 VDC	19	3	36/4.8/52.8 VDC	Plug-In	—	PB119-ND	13.66	11.95	10.82	8.54	R10-E1Y2-V2.5K
	4PDT	6 VDC	115	3	4.5/0.5/6.6 VDC	Plug-In	—	PB120-ND	14.64	12.81	11.59	9.15	R10-E1Y4-V52
		12 VDC	64	3	9/1.2/13.2 VDC	Plug-In	—	PB121-ND	14.64	12.81	11.59	9.15	R10-E1Y4-V185
		24 VDC	34	3	18/2.4/26.4 VDC	Plug-In	—	PB122-ND	14.64	12.81	11.59	9.15	R10-E1Y4-V700
		48 VDC	19	3	36/4.8/52.8 VDC	Plug-In	—	PB123-ND	14.64	12.81	11.59	9.15	R10-E1Y4-V2.5K
	DPDT	6 VDC	115	5	4.5/0.5/6.6 VDC	Plug-In	—	PB124-ND	13.37	11.70	10.59	8.36	R10-E1X2-V52
		12 VDC	64	5	9/1.2/13.2 VDC	Plug-In	—	PB125-ND	13.37	11.70	10.59	8.36	R10-E1X2-V185
		24 VDC	34	5	18/2.4/26.4 VDC	Plug-In	—	PB126-ND	13.37	11.70	10.59	8.36	R10-E1X2-V700
		48 VDC	19	5	36/4.8/52.8 VDC	Plug-In	—	PB127-ND	13.37	11.70	10.59	8.36	R10-E1X2-V2.5K
		24 VDC	34	7.5	18/2.4/26.4VDC	Plug-In	—	PB454-ND	14.42	12.63	11.42	9.02	R10-E1W2-V700
	4PDT	24 VDC	34	5	18/2.4/26.4VDC	PC Mount	—	PB452-ND	13.37	11.70	10.59	8.36	R10-E2X2-V700
		12 VDC	64	5	9/1.2/13.2 VDC	Plug-In	—	PB129-ND	15.62	13.68	12.37	9.77	R10-E1X4-V185
		24 VDC	34	5	18/2.4/26.4 VDC	Plug-In	—	PB130-ND	15.62	13.68	12.37	9.77	R10-E1X4-V700
		48 VDC	19	5	36/4.8/52.8 VDC	Plug-In	—	PB131-ND	15.62	13.68	12.37	9.77	R10-E1X4-V2.5K
		24 VDC	34	5	18/2.4/26.4VDC	Plug-In	—	PB453-ND	22.49	19.68	17.81	14.06	R10-E1M4-V700
KHA/KHS Series — General Purpose Low Cost Power Relay													
5	DPDT	12 VDC	75	5	9/1.2/12VDC	Plug-In	—	PB455-ND	6.72	5.88	5.32	4.20	KHAU-11D12-12
	4PDT	24 VAC	—	3	20.4/2.4/24 VAC	Plug-In	—	PB139-ND	6.72	5.88	5.32	4.20	KHAU-17A11-24
		120 VAC	—	3	102/22/120 VAC	Plug-In	—	PB140-ND	7.56	6.62	5.99	4.73	KHAU-17A11-120
		120 VAC	—	3	102/22/120 VAC	Plug-In	With Indicator Light	PB141-ND	9.24	8.09	7.32	5.78	KHAU-17A11N-120
		120 VAC	—	5	102/12/120VAC	Plug-In	—	PB456-ND	6.72	5.88	5.32	4.20	KHAU-17A12-120
		24 VAC	—	1	20.4/2.4/24VAC	Plug-In	—	PB457-ND	8.40	7.35	6.65	5.25	KHAU-17A16-24
		12 VDC	75	3	9/2.4/12 VDC	Plug-In	—	PB142-ND	6.72	5.88	5.32	4.20	KHAU-17D11-12
		24 VDC	37	3	18/2.4/24 VDC	Plug-In	—	PB143-ND	6.72	5.88	5.32	4.20	KHAU-17D11-24
		24 VDC	37	5	18/2.4/24VDC	Plug-In	—	PB458-ND	6.72	5.88	5.32	4.20	KHAU-17D12-24
		24 VDC	37	3	18/2.4/24VDC	Solder	Hermetically Sealed	PB459-ND	46.06	40.30	36.47	28.79	KHS-17D11-24
		120 VAC	—	3	102/12/120VAC	Solder	Hermetically Sealed	PB460-ND	50.23	43.96	39.77	31.40	KHS-17A11-120
		24 VDC	37	5	18/2.4/24VDC	Solder	Hermetically Sealed	PB461-ND	46.06	40.30	36.47	28.79	KHS-17D12-24
		120 VAC	—	5	102/12/120VAC	Solder	Hermetically Sealed	PB462-ND	50.23	43.96	39.77	31.40	KHS-17A12-120
KUP Series — Enclosed Relays													
6	DPDT	24 VAC	—	10	20.4/2.4/24 VAC	.187 (4.75) QC	—	PB151-ND	10.08	8.82	7.98	6.30	KUP-11A15-24
		120 VAC	—	10	102/12/120 VAC	.187 (4.75) QC	—	PB152-ND	10.08	8.82	7.98	6.30	KUP-11A15-120
		12 VDC	100	10	9/1.2/12 VDC	.187 (4.75) QC	—	PB153-ND	10.08	8.82	7.98	6.30	KUP-11D15-12
		24 VDC	51	10	18/2.4/24 VDC	.187 (4.75) QC	—	PB154-ND	10.08	8.82	7.98	6.30	KUP-11D15-24
		12 VDC	100	10	9/1.2/12 VDC	.187 (4.75) QC	Side Flange	PB155-ND	9.67	8.47	7.66	6.05	KUP-11D55-12
		24 VDC	51	10	18/2.4/24 VDC	.187 (4.75) QC	Side Flange	PB156-ND	9.67	8.47	7.66	6.05	KUP-11D55-24
		24 VAC	—	10	20.4/2.4/24 VAC	.187 (4.75) QC	Side Flange	PB222-ND	10.08	8.82	7.98	6.30	KUP-11A55-24
		120 VAC	—	10	102/12/120VAC	.187 (4.75) QC	Side Flange	PB463-ND	10.51	9.20	8.33	6.57	KUP-11A55-120
	DPST	24 VDC	75	10	18/2.4/24 VDC	.187 (4.75) QC	Side Flange	PB223-ND	14.52	12.71	11.50	9.08	KUGP-7D55-24
	3PDT	24 VAC	—	10	20.4/2.4/24 VAC	.187 (4.75) QC	—	PB157-ND	11.76	10.29	9.31	7.35	KUP-14A15-24
		120 VAC	—	10	102/12/120 VAC	.187 (4.75) QC	—	PB158-ND	11.76	10.29	9.31	7.35	KUP-14A15-120
		12 VDC	100	10	9/1.2/12 VDC	.187 (4.75) QC	—	PB159-ND	10.92	9.56	8.65	6.83	KUP-14D15-12
		24 VDC	51	10	18/2.4/24 VDC	.187 (4.75) QC	—	PB160-ND	10.92	9.56	8.65	6.83	KUP-14D15-24
		24 VAC	—	10	18/2.4/24VAC	.187 (4.75) QC	With Indicator Light	PB464-ND	12.60	11.03	9.98	7.88	KUP-14A35-24
		24 VDC	51	10	18/2.4/24VDC	.187 (4.75) QC	With Indicator Light	PB465-ND	12.60	11.03	9.98	7.88	KUP-14D35-24
		120 VAC	—	10	102/12/120 VAC	.187 (4.75) QC	With Indicator Light	PB161-ND	12.60	11.03	9.98	7.88	KUP-14A35-120
		120 VAC	—	10	102/12/120 VAC	.187 (4.75) QC	With Test Button	PB162-ND	13.44	11.76	10.64	8.40	KUP-14A45-120
		24 VAC	—	10	20.4/2.4/24 VAC	.187 (4.75) QC	Side Flange	PB163-ND	12.19	10.67	9.66	7.62	KUP-14A55-24
		120 VAC	—	10	102/12/120 VAC	.187 (4.75) QC	Side Flange	PB164-ND	12.19	10.67	9.66	7.62	KUP-14A55-120

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Fig. 7 — KRP/KRPA/KR Series

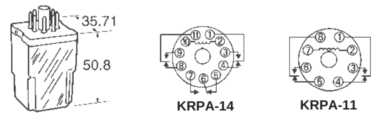


Fig. 8 — T90 Series

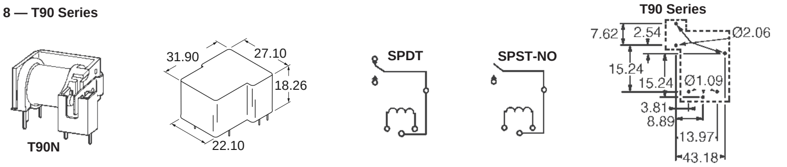


Fig. 9 — T9A Series

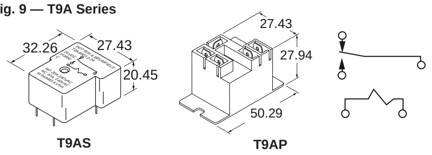


Fig. 10 — T92 Series

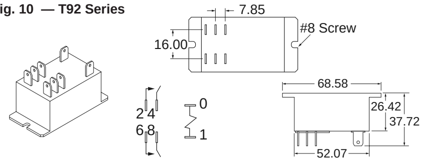


Fig. 11 — PRD Series

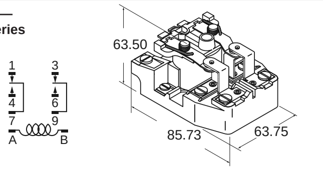


Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Operate Volt Release Volt pull/drop/max	Terminal Type Inch (mm)	Additional Features	Digi-Key Part No.	Price Each				Potter & Brumfield Part No.
									1	25	50	100	
6	SPST-NO	24 VDC	51	10	18/2.4/24VDC	.187 (4.75) QC	—	PB466-ND	14.78	12.94	11.71	9.24	KUEP-3D15-24
	DPDT	24 VDC	51	10	18/2.4/24VDC	.187 (4.75) QC	—	PB467-ND	16.75	14.66	13.27	10.47	KUEP-11D15-24
	3PDT	24 VDC	51	15	18/2.4/24VDC	.187 (4.75) QC	—	PB468-ND	12.53	10.97	9.92	7.83	KUMP-14D18-24
	DPDT	120 VAC	—	10	102/12/120VAC	.187 (4.75) QC	Top Flange	PB469-ND	17.11	14.98	13.55	10.70	KUIP-11AT5-120
		24 VAC	—	20	18/2.4/24VAC	.250 (6.35) QC	Side Flange	PB470-ND	12.53	10.97	9.92	7.83	KUHP-11A51-24
		24 VDC	51	10	18/2.4/24VDC	.187 (4.75) QC	Latching Relay	PB471-ND	43.94	38.46	34.79	27.47	KUL-11D15D-24
		120 VAC	—	10	102/12/120VAC	.187 (4.75) QC	Latching Relay	PB472-ND	33.82	29.59	26.78	21.14	KUL-11A15S-120
KRP/KRPA/KR Series — Octal Plug Termination General Purpose Relay													
7	DPDT	110 VDC	11.5	10	82.5/11/110VDC	8 Pin Octal	—	PB473-ND	48.55	42.49	38.44	30.35	KRP-11DG-110
		120 VAC	—	10	102/12/120VAC	8 Pin Octal	—	PB474-ND	46.99	41.12	37.21	29.37	KRP-11AG-120
		24 VAC	—	10	20.4/2.4/24 VAC	8 Pin Octal	—	PB167-ND	11.98	10.48	9.49	7.49	KRPA-11AG-24
		120 VAC	—	10	102/12/120 VAC	8 Pin Octal	—	PB168-ND	12.82	11.22	10.15	8.01	KRPA-11AG-120
		12 VDC	100	10	9/1.2/12 VDC	8 Pin Octal	—	PB169-ND	11.98	10.48	9.49	7.49	KRPA-11DG-12
		24 VDC	51	10	18/2.4/24 VDC	8 Pin Octal	—	PB170-ND	11.98	10.48	9.49	7.49	KRPA-11DG-24
		24 VDC	51	10	18/2.4/24VDC	8 Pin Octal	With Indicator Light	PB475-ND	12.38	10.84	9.81	7.74	KRPA-11DN-24
		110 VDC	11.5	10	82.5/11/110VDC	8 Pin Octal	—	PB476-ND	12.82	11.22	10.15	8.01	KRPA-11DG-110
	3PDT	24 VAC	—	10	20.4/2.4/24 VAC	11 Pin Octal	—	PB171-ND	13.22	11.58	10.47	8.27	KRPA-14AG-24
		120 VAC	—	10	102/12/120 VAC	11 Pin Octal	—	PB172-ND	14.06	12.31	11.14	8.79	KRPA-14AG-120
		12 VDC	100	10	9/1.2/12 VDC	11 Pin Octal	—	PB173-ND	13.44	11.76	10.64	8.40	KRPA-14DG-12
		24 VDC	51	10	18/2.4/24 VDC	11 Pin Octal	—	PB174-ND	13.44	11.76	10.64	8.40	KRPA-14DG-24
	DPDT	120 VAC	—	10	102/12/120 VAC	8 Pin Octal	With Indicator Light	PB175-ND	13.22	11.58	10.47	8.27	KRPA-11AN-120
	3PDT	120 VAC	—	10	102/12/120 VAC	11 Pin Octal	With Indicator Light	PB176-ND	14.50	12.69	11.48	9.06	KRPA-14AN-120
	DPDT	12 VDC	100	3	9/1.2/12VDC	8 Pin Octal	—	PB477-ND	91.15	79.76	72.17	56.97	KR-11DGE-12
		24 VDC	51	3	18/2.4/24VDC	8 Pin Octal	—	PB478-ND	91.15	79.76	72.17	56.97	KR-11DGE-24
	3PDT	24 VDC	51	3	18/2.4/24VDC	11Pin Octal	—	PB479-ND	127.44	111.51	100.89	79.65	KR-14DGE-24
		120 VAC	—	3	102/12/120VAC	11 Pin Octal	—	PB480-ND	124.15	108.64	98.29	77.60	KR-14AGE-120
T90 Series — Low Cost PC Mount Power Relay													
8	SPST-NO	12 VDC	77	30	9/1.2/12 VDC	PC Mount	—	PB104-ND	2.02	1.77	1.60	1.26	T90N1D12-12
		24 VDC	36	30	18/2.4/24 VDC	PC Mount	—	PB105-ND	2.04	1.79	1.62	1.28	T90N1D12-24
	SPDT	12 VDC	77	20	9/1.2/12 VDC	PC Mount	—	PB107-ND	2.11	1.85	1.68	1.32	T90N5D12-12
		24 VDC	36	20	18/2.4/24 VDC	PC Mount	—	PB108-ND	2.14	1.87	1.70	1.34	T90N5D12-24
Dust Cover for Open-Style T90 Series (Snaps onto Relay)								PB216-ND	.67	.59	.54	.42	35C620A
8	SPST-NO	5 VDC	185	30	3.5/0.5/5 VDC	PC Mount	—	PB109-ND	2.33	2.04	1.85	1.46	T90S1D12-5
		12 VDC	77	30	8.4/1.2/12 VDC	PC Mount	—	PB110-ND	2.38	2.08	1.89	1.49	T90S1D12-12
		24 VDC	36	30	16.8/2.4/24 VDC	PC Mount	—	PB111-ND	2.38	2.08	1.89	1.49	T90S1D12-24
	SPDT	5 VDC	185	20	3.5/0.5/5 VDC	PC Mount	—	PB113-ND	2.33	2.04	1.85	1.46	T90S5D12-5
		12 VDC	77	20	8.4/1.2/12 VDC	PC Mount	—	PB114-ND	2.38	2.08	1.89	1.49	T90S5D12-12
		24 VDC	36	20	16.8/2.4/24 VDC	PC Mount	—	PB115-ND	2.38	2.08	1.89	1.49	T90S5D12-24
T9A Series — Low Cost Industrial Relays													
9	SPST-NO	12 VDC	83	30	9/1.2/12 VDC	PC Mount	—	PB302-ND	2.47	2.17	1.96	1.55	T9AS1D12-12
		24 VDC	42	30	18/2.4/24 VDC	PC Mount	—	PB303-ND	2.47	2.17	1.96	1.55	T9AS1D12-24
		12 VDC	83	30	9/1.2/12 VDC	PC Mount	With .250” QC Term.	PB304-ND	2.66	2.34	2.11	1.67	T9AS1D22-12
		24 VDC	42	30	18/2.4/24 VDC	PC Mount	With .250” QC Term.	PB305-ND	2.66	2.34	2.11	1.67	T9AS1D22-24
	SPDT	12 VDC	83	20	9/1.2/12 VDC	PC Mount	—	PB306-ND	1.94	1.71	1.54	1.22	T9AS5D12-12
		24 VDC	42	20	18/2.4/24 VDC	PC Mount	—	PB307-ND	2.52	2.21	2.00	1.58	T9AS5D12-24
		12 VDC	83	20	9/1.2/12 VDC	PC Mount	With .250” QC Term.	PB308-ND	2.66	2.34	2.11	1.67	T9AS5D22-12
		24 VDC	42	20	18/2.4/24 VDC	PC Mount	With .250” QC Term.	PB309-ND	2.66	2.34	2.11	1.67	T9AS5D22-24
		12 VDC	83	20	9/1.2/12 VDC	.250 (6.35) QC	Chassis Mount	PB310-ND	3.02	2.65	2.40	1.89	T9AP5D52-12
		24 VDC	42	20	18/2.4/24 VDC	.250 (6.35) QC	Chassis Mount	PB311-ND	3.02	2.65	2.40	1.89	T9AP5D52-24
T92 Series — Power Relays with Quick Connect Terminals, Sealed and Unsealed													
10	DPST-NO	12 VDC	139	30	9/1.2/12VDC	PC Mount	Sealed Case	PB481-ND	8.76	7.67	6.94	5.48	T92S7D12-12
		24 VDC	68	30	18/2.4/24VDC	PC Mount	Sealed Case	PB482-ND	8.76	7.67	6.94	5.48	T92S7D12-24
		240 VAC	—	30	192/24/240VAC	PC Mount	Sealed Case	PB483-ND	10.92	9.56	8.65	6.83	T92S7A12-240
		12 VDC	139	30	9/1.2/12VDC	PC Mount	Unsealed Case	PB484-ND	8.23	7.21	6.52	5.15	T92P7D12-12
		24 VDC	68	30	18/2.4/24VDC	PC Mount	Unsealed Case	PB485-ND	8.23	7.21	6.52	5.15	T92P7D12-24
		12 VDC	139	30	9/1.2/12 VDC	.250 (6.35) QC	Sealed Case	PB298-ND	8.76	7.67	6.94	5.48	T92S7D22-12
		12 VDC	139	30	9/1.2/12VDC	.250 (6.35) QC	Unsealed Case	PB486-ND	8.23	7.21	6.52	5.15	T92P7D22-12
		24 VDC	68	30	18/2.4/24 VDC	.250 (6.35) QC	Sealed Case	PB299-ND	8.76	7.67	6.94	5.48	T92S7D22-24
		24 VAC	—	30	19.2/2.4/24VAC	.250 (6.35) QC	Unsealed Case	PB487-ND	8.64	7.56	6.84	5.40	T92P7A22-24
		24 VAC	—	30	19.2/2.4/24VAC	.250 (6.35) QC	Sealed Case	PB488-ND	9.36	8.19	7.41	5.85	T92S7A22-24
		120 VAC	—	30	96/12/120 VAC	.250 (6.35) QC	Sealed Case	PB301-ND	9.36	8.19	7.41	5.85	T92S7A22-120
		120 VAC	—	30	96/12/120VAC	.250 (6.35) QC	Unsealed Case	PB489-ND	8.64	7.56	6.84	5.40	T92P7A22-120
	DPDT	12 VDC	139	30	9/1.2/12 VDC	PC Mount	Sealed Case	PB351-ND	9.46	8.28	7.49	5.91	T92S11D12-12
		24 VDC	68	30	18/2.4/24 VDC	PC Mount	Sealed Case	PB352-ND	9.46	8.28	7.49	5.91	T92S11D12-24
		12 VDC	139	30	9/1.2/12 VDC	.250 (6.35) QC	Unsealed Case	PB349-ND	8.74	7.65	6.92	5.46	T92P11D22-12
		12 VDC	139	30	9/1.2/12VDC	.250 (6.35) QC	Sealed Case	PB490-ND	9.46	8.28	7.49	5.91	T92S11D22-12
		24 VDC	68	30	18/2.4/24 VDC	.250 (6.35) QC	Unsealed Case	PB350-ND	8.74	7.65	6.92	5.46	T92P11D22-24
		24 VAC	—	30	19.2/2.4/24 VAC	.250 (6.35) QC	Sealed Case	PB300-ND	10.61	9.29	8.40	6.63	T92S11A22-24
		24 VDC	68	30	18/2.4/24VDC	.250 (6.35) QC	Sealed Case	PB491-ND	9.46	8.28	7.49	5.91	T92S11D22-24
		120 VAC	—	30	96/12/120VAC	.250 (6.35) QC	Unsealed Case	PB492-ND	9.67	8.47	7.66	6.05	T92P11A22-120
		240 VAC	—	30	192/24/240 VAC	.250 (6.35) QC	Unsealed Case	PB348-ND	10.92	9.56	8.65	6.83	T92P11A22-240
PRD Series — Heavy Duty Power Relay													
11	SPDT	12 VAC	—	25	10.2/1.2/12VAC	Screw	—	PB493-ND	22.08	19.32	17.48	13.80	PRD-5DY0-12
		24 VAC	—	25	20.4/2.4/24VAC	Screw	—	PB494-ND	22.78	19.93	18.04	14.24	PRD-5AY0-24
		120 VAC	—	25	102/12/120VAC	Screw	—	PB495-ND	22.78	19.93	18.04	14.24	PRD-5AY0-120

(Continued)

General Purpose Relays *(Cont.)*

Fig. 12 — PM Series

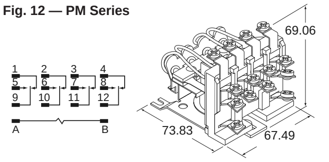


Fig. 13 — S86R, S87R Series

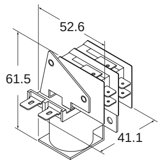


Fig. 14 — S89 Series

Potter & Brumfield S89 Series relay features a simple pulse latch/unlatch function (impulse) without the need to reverse polarity or continuously energize the coil.

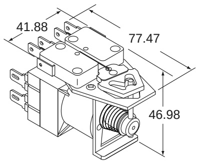


Fig. 15 — P25, P30, P40 Series

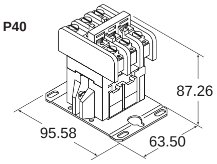
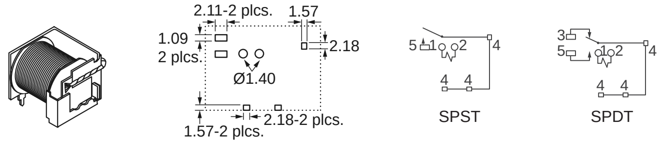


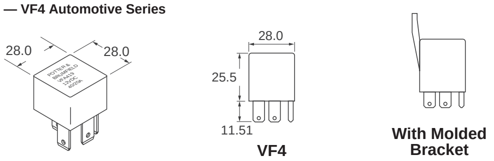
Fig. 16 — VKP Automotive Series



SPST

SPDT

Fig. 17 — VF4 Automotive Series



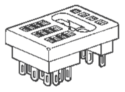
VF4

With Molded Bracket

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Operate Volt Release Volt pull/drop/max	Terminal Type Inch (mm)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Potter & Brumfield Part No.
11	DPST-NO	120 VAC	—	25	102/12/120VAC	Screw	—	PB496-ND	24.65	21.57	19.52	15.41	PRD-7AY0-120
		24 VDC	84	25	18/2.4/24VDC	Screw	—	PB497-ND	23.88	20.90	18.91	14.93	PRD-7DY0-24
	DPDT	12 VDC	169	25	9/1.2/12VDC	Screw	—	PB498-ND	29.90	26.17	23.68	18.69	PRD-11DY0-12
		24 VDC	84	25	18/2.4/24VDC	Screw	—	PB499-ND	29.90	26.17	23.68	18.69	PRD-11DY0-24
		24 VDC	84	20	18/2.4/24VDC	Screw	With Magnetic Blow Out	PB500-ND	33.29	29.13	26.36	20.81	PRD-11DH0-24
		24 VDC	84	30	18/2.4/24VDC	Screw	—	PB501-ND	29.86	26.13	23.64	18.66	PRD-11DG0-24
		110 VDC	18.2	20	82.5/11/110VDC	Screw	With Magnetic Blow Out	PB502-ND	36.31	31.78	28.75	22.70	PRD-11DH0-110
		120 VAC	—	30	102/12/120VAC	Screw	—	PB503-ND	30.48	26.67	24.13	19.05	PRD-11AG0-120
		120 VAC	—	20	102/12/120VAC	Screw	With Magnetic Blow Out	PB504-ND	34.10	29.85	27.00	21.32	PRD-11AH0-120
		120 VAC	—	25	102/12/120VAC	Screw	—	PB505-ND	30.60	26.78	24.23	19.13	PRD-11AY0-120
		240 VAC	—	25	204/24/240VAC	Screw	—	PB506-ND	31.13	27.24	24.65	19.46	PRD-11AY0-240
PM Series — Heavy Duty Multicontact Power Relay													
12	4PDT	12 VDC	364	25	9/1.2/12VDC	Screw	—	PB507-ND	79.32	69.41	62.80	49.58	PM-17DY-12
		24 VDC	182	25	18/2.4/24VDC	Screw	—	PB508-ND	79.32	69.41	62.80	49.58	PM-17DY-24
		110 VDC	40	25	82.5/11/110VDC	Screw	—	PB509-ND	84.10	73.59	66.58	52.56	PM-17DY-110
S86R, S87R, S89R Series Industrial Relays													
13	DPDT	120 VAC	—	20	102/12/120VAC	.250 (6.35) QC	—	PB510-ND	27.91	24.43	22.10	17.45	S86R11A1B1D1120
		120 VAC	—	20	102/12/120VAC	.250 (6.35) QC	—	PB511-ND	26.47	23.17	20.96	16.55	S87R11A2B1D1120
14	SPDT	24 VAC	—	15	20.4/2.4/24VAC	.250 (6.35) QC	Impulse	PB512-ND	30.00	26.25	23.75	18.75	S89R5ABD1-24
	DPDT	12 VDC	533	15	9/1.2/12VDC	.187 (4.75) QC	Impulse	PB513-ND	34.44	30.14	27.27	21.53	S89R11DAC1-12
		12 VDC	533	15	9/1.2/12VDC	.250 (6.35) QC	Impulse	PB514-ND	34.44	30.14	27.27	21.53	S89R11DBD1-12
		120 VAC	—	15	102/12/120VAC	8 Pin Octal	Impulse	PB515-ND	41.42	36.25	32.80	25.89	S89R11APP1-120
P25, P30, P40 Series — Heavy Duty Contactor													
15	3PST-NO	24 VDC	180	25	18/2.4/24VDC	.250 (6.35) QC	—	PB516-ND	62.95	55.09	49.84	39.35	P25P42D22P1-24
		24 VDC	286	30	18/2.4/24VDC	.250 (6.35) QC	—	PB517-ND	74.23	64.96	58.77	46.40	P30P42D12P1-24
		24 VDC	286	40	18/2.4/24VDC	.250 (6.35) QC	—	PB518-ND	78.07	68.32	61.81	48.80	P40P42D12P1-24
		120 VAC	—	40	102/12/120VAC	.250 (6.35) QC	—	PB519-ND	100.01	87.51	79.18	62.51	P40C42A12D1-120
VKP Series — Open Frame Automotive Relay													
16	SPST-NO	12 VDC	133	40	6.8/1.2/12 VDC	PC Mount	—	PB312-ND	2.21	1.94	1.75	1.38	VKP-11F42
	SPDT	12 VDC	133	40	6.8/1.2/12 VDC	PC Mount	—	PB313-ND	2.33	2.04	1.85	1.46	VKP-15F42
VF4 Series — Enclosed Automotive Relay													
17	SPST-NO	12 VDC	133	40	7.2/1.2/20.2 VDC	.250 (6.35) QC	With Molded Bracket	PB149-ND	3.82	3.34	3.03	2.39	VF4A-41F11
		12 VDC	133	40	7.2/1.2/20.2 VDC	PC Mount	—	PB229-ND	4.27	3.74	3.39	2.67	VF4-11F13
	SPDT	12 VDC	133	40	7.2/1.2/20.2 VDC	PC Mount	—	PB230-ND	4.49	3.93	3.56	2.81	VF4-15F13
		12 VDC	133	40	7.2/1.2/20.2 VDC	.250 (6.35) QC	—	PB536-ND *NEW!*	3.60	3.15	2.85	2.25	VF4A-15F11
		24 VDC	66.6	40	14.4/2.4/40.5 VDC	.250 (6.35) QC	—	PB215-ND	3.26	2.86	2.59	2.04	VF4A-15H11
		12 VDC	133	40	14.4/2.4/40.5 VDC	.250 (6.35) QC	With Metal Bracket	PB527-ND	3.91	3.43	3.10	2.45	VF4A-45F11

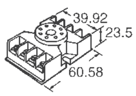
Relay Sockets and Accessories

Fig. 1



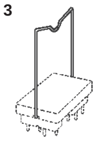
Solder Terminal Socket

Fig. 2



Panel Mount Socket (KRPA shown)

Fig. 3



Wire Hold Down Spring

Fig.	Description	Use With Series	Digi-Key Part No.	Price Each 1	25	50	100	Potter & Brumfield Part No.
1	Solder Terminal Socket, DPDT	K10	PB331-ND	1.78	1.56	1.41	1.11	27E488
2	DIN Rail Screw Mount Socket, DPDT	K10	PB332-ND	5.38	4.71	4.26	3.36	27E895
3	Wire Hold Down Spring, DPDT for DIN Rail Socket	K10	PB333-ND	.50	.45	.40	.32	20C297
1	PCB Mount Socket, DPDT	K10	PB334-ND	1.85	1.62	1.47	1.16	27E489
1	Solder Terminal Socket, DPDT	R10	PB132-ND	1.34	1.18	1.07	.84	27E125
1	Solder Terminal Socket, 4PDT	R10	PB133-ND	1.46	1.29	1.16	.92	27E126
1	PCB Mount Socket, DPDT	R10	PB134-ND	1.27	1.12	1.01	.80	27E128
1	PCB Mount Socket, 4PDT	R10	PB135-ND	1.46	1.29	1.16	.92	27E129
3	Wire Hold Down Spring, DPDT	R10	PB136-ND	.26	.24	.21	.17	20C249
3	Wire Hold Down Spring, 4PDT	R10	PB137-ND	.26	.24	.21	.17	20C250
3	Wire Hold Down Strap (for P.C. Socket Only), all poles	R10	PB138-ND	.26	.24	.21	.17	20C259
1	Solder Terminal Socket, 4PDT	KHA	PB144-ND	1.44	1.26	1.14	.90	27E006
1	PCB Mount Socket, 4PDT	KHA	PB145-ND	1.34	1.18	1.07	.84	27E007
3	Wire Hold Down Spring, KHA-4PDT/K10-DPDT	KHA/K10	PB146-ND	.38	.34	.31	.24	20C217
—	Chassis Mount Screw Mount Socket, 4PDT	KHA	PB147-ND	10.08	8.82	7.98	6.30	27E166
2	DIN Rail Mount Screw Term Socket, 4PDT	KHA	PB148-ND	7.99	7.00	6.33	5.00	27E894
1	PCB Terminal Socket, 4PDT	KH	PB523-ND	1.15	1.01	.92	.72	27E023
—	Chassis Mount Screw Term Socket, all poles	KUP	PB165-ND	6.72	5.88	5.32	4.20	27E121
2	DIN Rail Mount Screw Term Socket, all poles	KUP	PB166-ND	8.02	7.02	6.35	5.01	27E893
—	PCB Terminal Socket with Mounting Ears, DP, 3P	KU	PB522-ND	2.11	1.85	1.68	1.32	27E046
2	8-Pin Octal Screw Term Socket, all poles	KRPA	PB177-ND	4.70	4.12	3.73	2.94	27E122
2	11-Pin Octal Screw Term Socket, all poles	KRPA	PB178-ND	5.21	4.56	4.13	3.26	27E123
—	Spacer for KRPA Series Relay	KRPA	PB179-ND	.74	.66	.59	.47	21B212
2	DIN Rail Mount Socket, DPDT	KRPA	PB520-ND	5.04	4.41	3.99	3.15	27E891
2	DIN Rail Mount Socket, 3PDT	KRPA	PB521-ND	7.61	6.66	6.03	4.76	27E892
2	DIN Rail Terminal Socket (for all RT Series)	RT	PB524-ND	5.69	4.98	4.51	3.56	RT78624
2	PCB Mount Socket (for all RT Series)	RT	PB525-ND	2.16	1.89	1.71	1.35	RP78602
—	DIN Rail Track, 36” (91.44cm) for DIN Rail Sockets, Aluminum	ALL	PB345-ND	10.37	9.08	8.21	6.48	24A110
—	Hold Down Clip, for use with DIN Rail	ALL	PB346-ND	.60	.53	.48	.38	24A071
—	Plastic Spacer for DIN Rail Sockets	ALL	PB347-ND	.70	.61	.56	.44	40G432
—	Plastic Dust Cover, Snap On for PM Series HD Relay	PM	PB526-ND	4.80	4.20	3.80	3.00	35D203
—	VF4 Relay Socket, PCB Mount	VF4	PB232-ND	1.46	1.29	1.16	.92	VCF4-1000
—	VF4 Relay Socket (Wire Harness Style)	VF4	PB316-ND	.55	.49	.44	.35	VCF4-1001
—	VF4 Crimp Term 12-16 AWG for PB316-ND	VF4	PB317-ND	—	.17	.16	.12	26A1349A
—	VF4 Crimp Term 14-18 AWG for PB316-ND	VF4	PB318-ND	—	.17	.16	.12	26A1349B

Aromat Corporation
NAiS Your Partner for the 21st Century

PhotoMos Relays

PhotoMos relays combine the advantages of standard electromechanical relays with that of solid state products. This combination allows very fast response times with very low leakage and exceedingly long life times. Reliability and lower input currents are also improved over conventional relays.

AQY210 and AQY214 Series are SPST solid state switches for applications such as high speed inspection machines, telecom and data communication equipment, instrumentation and security. Capable of switching both AC and DC voltages. Extremely small 4-pin SOP package.

AQV210, 212, and 214 Series are SPST general purpose switches for high speed, high performance switching.

AQV221 Series are solid state switches designed for switching high frequencies (RF) such as audio/visual signals as well as CD, VCR, and scanners, etc.

AQW214 and 414 Series are independently triggered dual switches available in either Dip, SMT or SOP package.

Fig. 1

4-SOP

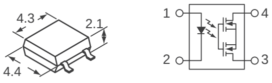
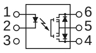
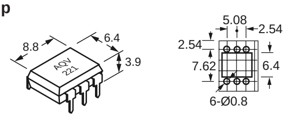


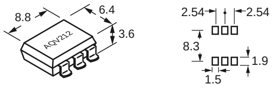
Fig. 2



6-Dip



6-SMD



6-SOP

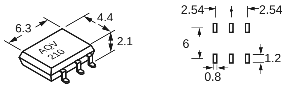
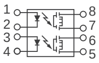
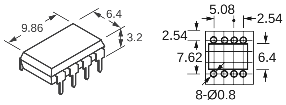


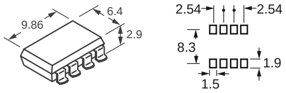
Fig. 3



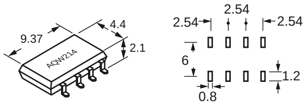
8-Dip



8-SMD



8-SOP



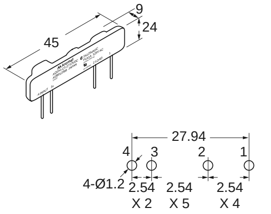
General Purpose SPST Solid State Relays

Fig.	Cont. Arrange.	Load Current (max.)	Load Volt (max.)	Isola-tion Volt	On Resistance (min./max.)	Features	Package	Digi-Key Part No.	Price Each 1	25	50	100	Aromat Part No.
AQY210 Series Solid State Relays													
1	SPST-NO	130mA	350V	5,000	18/25	—	4-Dip	255-1430-5-ND	1.98	1.83	1.62	1.38	AQY210EH
		130mA	350V	5,000	18/25	—	4-SMD	255-1431-5-ND	1.98	1.83	1.62	1.38	AQY210EHA
		120mA	350V	1,500	20/25	w/ Current Limit	4-SOP	255-1433-5-ND	2.06	1.89	1.68	1.43	AQY210LS
		120mA	350V	1,500	23.5/35	w/ Protection	4-SOP	255-1432-5-ND	2.60	2.39	2.12	1.81	AQY210KS
		120mA	350V	1,500	17/25	—	4-SOP	255-1434-5-ND	1.86	1.71	1.52	1.30	AQY210S
		120mA	400V	5,000	26/35	—	4-Dip	255-1435-5-ND	1.98	1.83	1.62	1.38	AQY214EH
		120mA	400V	5,000	26/35	—	4-SMD	255-1436-5-ND	1.98	1.83	1.62	1.38	AQY214EHA
		100mA	400V	1,500	25/35	—	4-SOP	255-1437-5-ND	1.86	1.71	1.52	1.30	AQY214S
		120mA	350V	1,500	18/25	—	4-SOP	255-1438-5-ND	2.38	2.19	1.94	1.65	AQY410S
		100mA	400V	1,500	26/35	—	4-SOP	255-1439-5-ND	2.38	2.19	1.94	1.65	AQY414S
AQV210 Series Solid State Relays													
2	SPST-NO	130mA	350V	1,500	23/35	—	6-Dip	255-1143-5-ND	2.16	1.98	1.76	1.50	AQV210E
		130mA	350V	1,500	23/35	—	6-SMD	255-1144-5-ND	2.16	1.98	1.76	1.50	AQV210EA
		130mA	350V	5,000	23/35	—	6-Dip	255-1145-5-ND	2.16	1.98	1.76	1.50	AQV210EH
		130mA	350V	5,000	23/35	—	6-SMD	255-1146-5-ND	2.16	1.98	1.76	1.50	AQV210EHA
		130mA	350V	5,000	20/25	w/ Current Limit	6-Dip	255-1418-5-ND	2.23	2.05	1.82	1.55	AQV210HL
		130mA	350V	5,000	20/25	w/ Current Limit	6-SMD	255-1419-5-ND	2.23	2.05	1.82	1.55	AQV210HLA
		120mA	350V	1,500	23/35	—	6-SOP	255-1147-5-ND	2.16	1.98	1.76	1.50	AQV210S
AQV212 Series Solid State Relays													
2	SPST-NO	400mA	60V	1,500	.83/2.5	—	6-Dip	255-1148-5-ND	3.87	3.56	3.16	2.69	AQV212
		400mA	60V	1,500	.83/2.5	—	6-SMD	255-1149-5-ND	3.87	3.56	3.16	2.69	AQV212A
		350mA	60V	1,500	.83/2.5	—	6-SOP	255-1150-5-ND	4.09	3.76	3.34	2.84	AQV212S
AQV214 Series Solid State Relays													
2	SPST-NO	120mA	400V	1,500	30/50	—	6-Dip	255-1151-5-ND	3.87	3.56	3.16	2.69	AQV214
		120mA	400V	5,000	30/50	—	6-Dip	255-1152-5-ND	4.14	3.81	3.38	2.88	AQV214H
		120mA	400V	1,500	30/50	—	6-Dip	255-1153-5-ND	2.16	1.98	1.76	1.50	AQV214E
		120mA	400V	1,500	30/50	Economy Version	6-SMD	255-1420-5-ND	2.16	1.98	1.76	1.50	AQV214EA
		120mA	400V	5,000	30/50	Economy Version	6-Dip	255-1154-5-ND	2.16	1.98	1.76	1.50	AQV214EH
		120mA	400V	5,000	30/50	Economy Version	6-SMD	255-1421-5-ND	2.16	1.98	1.76	1.50	AQV214EHA
		120mA	400V	1,500	30/50	—	6-SMD	255-1155-5-ND	3.87	3.56	3.16	2.69	AQV214A
		100mA	400V	1,500	30/50	—	6-SOP	255-1156-5-ND	2.16	1.98	1.76	1.50	AQV214S
		500mA	40V	1,500	.6/1	—	6-Dip	255-1352-5-ND	4.90	4.50	4.00	3.40	AQV251
		400mA	60V	1,500	.74/1.4	—	6-Dip	255-1353-5-ND	4.90	4.50	4.00	3.40	AQV252
		250mA	200V	1,500	2.6/4	—	6-Dip	255-1354-5-ND	4.90	4.50	4.00	3.40	AQV257
	SPST-NC	130mA	350V	5,000	18/35	Economy Version	6-Dip	255-1422-5-ND	2.45	2.25	1.70	1.70	AQV410EH
		130mA	350V	5,000	18/35	Economy Version	6-SMD	255-1423-5-ND	2.45	2.25	2.00	1.70	AQV410EHA
		120mA	400V	1,500	26/50	—	6-Dip	255-1157-5-ND	4.29	3.94	3.50	2.98	AQV414
		120mA	400V	5,000	26/50	—	6-Dip	255-1348-5-ND	2.45	2.25	2.00	1.70	AQV414EH
		120mA	400V	5,000	25.2/50	Economy Version	6-SMD	255-1424-5-ND	2.45	2.25	2.00	1.70	AQV414EHA
AQV221 Series Radio Frequency Solid State Relays													
2	SPST-NO	80mA	40V	1,500	22/35	—	6-Dip	255-1163-5-ND	4.34	3.99	3.54	3.01	AQV221
		80mA	40V	1,500	22/35	—	6-SMD	255-1164-5-ND	4.34	3.99	3.54	3.01	AQV221A

General Purpose DPST Solid State Relays

Fig.	Cont. Arrange.	Load Current (max.)	Load Volt (max.)	Isola-tion Volt	On Resistance (min./max.)	Features	Package	Digi-Key Part No.	Price Each 1	25	50	100	Aromat Part No.
AQW210 and AQW214 Series Solid State Relays													
3	DPST-NO	120mA	350V	5,000	23/35	—	8-Dip	255-1349-5-ND	4.29	3.94	3.50	2.98	AQW210EH
		120mA	350V	5,000	18/25	Economy Version	8-SMD	255-1425-5-ND	4.29	3.94	3.50	2.98	AQW210EHA
		100mA	400V	1,500	30/50	—	8-Dip	255-1158-5-ND	6.47	5.94	5.28	4.49	AQW214
		100mA	400V	5,000	30/50	Economy Version	8-Dip	255-1426-5-ND	4.29	3.94	3.50	2.98	AQW214E
		100mA	400V	5,000	30/50	Economy Version	8-SMD	255-1427-5-ND	4.29	3.94	3.50	2.98	AQW214EA
		100mA	400V	1,500	30/50	—	8-SMD	255-1159-5-ND	6.47	5.94	5.28	4.49	AQW214A
		80mA	400V	1,500	30/50	—	8-SOP	255-1160-5-ND	4.29	3.94	3.50	2.98	AQW214S
AQW414 Series Solid State Relays													
3	DPST-NC	100mA	400V	1,500	26/50	—	8-Dip	255-1161-5-ND	8.09	7.43	6.60	5.61	AQW414
	DPST-NC	100mA	400V	5,000	26/50	—	8-Dip	255-1350-5-ND	4.61	4.23	3.76	3.20	AQW414EH
	DPST-NC	100mA	400V	5,000	26/35	Economy Version	8-SMD	255-1428-5-ND	4.61	4.23	3.76	3.20	AQW414EHA
	DPST-O/C	100mA	400V	5,000	27/50	—	8-Dip	255-1351-5-ND	4.61	4.23	3.76	3.20	AQW614EH
	DPST-NC	100mA	400V	5,000	26/35	Economy Version	8-SMD	255-1429-5-ND	4.61	4.23	3.76	3.20	AQW614EHA
	DPST-NC	100mA	400V	1,500	26/50	—	8-SMD	255-1162-5-ND	8.09	7.43	6.60	5.61	AQW414A

SIP Conformal Coated Solid State Relays



AQ2 SIP SSRs are designed as suitable drivers for AC motors, solenoids, valves, etc. These offer excellent noise resistance with an integrated snubber circuit and ultra thin body (only 9mm) for maintenance-free, long life switching. Zero-Cross is a low noise switching output whereas Phase Controlled are ideal for phase controlled applications such as motor speed control and light dimming.

Cont. Arrange.	Input Voltage (min-max.)	Dropout Voltage (min.)	Output Current (min-max.)	Output Voltage (min./max.)	Type	Digi-Key Part No.	Price Each 1	25	50	100	Aromat Part No.
SPST-NO	9.6-14.4VDC	1.2V	.025-2A	75-125VAC	Zero-Cross	255-1166-ND	12.17	11.23	9.98	8.52	AQ2A1-C1-ZT12VDC
	21.6-26.4VDC	2.4V	.025-2A	75-125VAC	Zero-Cross	255-1167-ND	12.17	11.23	9.98	8.52	AQ2A1-C1-ZT24VDC
SPST-NO	4-6VDC	.5V	.025-2A	75-250VAC	Zero-Cross	255-1168-ND	13.43	12.33	10.96	9.32	AQ2A2-C1-ZT5VDC
	9.6-14.4VDC	1.2V	.025-2A	75-250VAC	Zero-Cross	255-1169-ND	13.43	12.33	10.96	9.32	AQ2A2-C1-ZT12VDC
	21.6-26.4VDC	2.4V	.025-2A	75-250VAC	Zero-Cross	255-1170-ND	13.43	12.33	10.96	9.32	AQ2A2-C1-ZT24VDC
SPST-NO	9.6-14.4VDC	1.2V	.025-2A	75-125VAC	Phase Controlled	255-1172-ND	9.45	8.71	7.74	6.62	AQ2A1-C1-T12VDC
	21.6-26.4VDC	2.4V	.025-2A	75-125VAC	Phase Controlled	255-1173-ND	9.45	8.71	7.74	6.62	AQ2A1-C1-T24VDC
SPST-NO	4-6VDC	.5V	.025-2A	75-250VAC	Phase Controlled	255-1174-ND	10.56	9.70	8.62	7.33	AQ2A2-C1-T5VDC
	9.6-14.4VDC	1.2V	.025-2A	75-250VAC	Phase Controlled	255-1175-ND	10.56	9.70	8.62	7.33	AQ2A2-C1-T12VDC
	21.6-26.4VDC	2.4V	.025-2A	75-250VAC	Phase Controlled	255-1176-ND	10.56	9.70	8.62	7.33	AQ2A2-C1-T24VDC

CLARE

OptoMOS Solid State Switches

Figure 1 through 4:
Single and dual output solid state switches housed in a 6 or 8 pin dip package. Highly reliable bounce-free, arc-free switching with over 15 billion operations possible. UL, CSA approved and FCC compatible.

"TS" Series Telecom Switches (Fig. 5):
Incorporates an isolated solid state relay for hookswitch and dial pulse or loop start switching with a bi-directional Opto-coupler for ring detection and on-hook/off-hook detection. Eliminates up to eight discrete components.

Industrial Control and Instrumentation:
Figure 6: Dual linear optocouplers with a wide bandwidth and high gain (55 - 142%), available in either Dip, SMT, OR Flat package.

CPC1965 AC Solid State Relay (Figure 7, 8):
Robust to provide a blocking voltage up to 600V and is well suited for industrial environments where electromagnetic interference would disrupt the operation of electromechnical relays.

CPC10xxx and CPC11xxx Series (Figure 9):
World's smallest relays, produced by Clare, use state of the art double molded vertical construction packaging to offer board space savings of 20%.

Features high reliability with no moving parts makes these relays a great choice for Modem switching, Multiplexers, Meters, Medical equipment and Aerospace applications.

Fig.	Circuit	Pkg.	Input* Current Min/Max	Output Current Max.	Load Voltage	Turn On/ Turn Off (mS)	Digi-Key Part No.	Price Each 1	25	50	T&R† Pricing 1,000	Clare Part No.
1	SPST-NO	6 Dip	2/100	200mA	350	5/3	CLA101-ND	2.99	2.53	2.07	—	LCA110
	SPST-NO	6-SMD	2/100	200mA	350	5/3	CLA102CT-ND‡	3.51	2.97	2.43	1128.00	LCA110STR
	SPST-NC	6 Dip	5/100	200mA	350	3/3	CLA105-ND	3.38	2.86	2.34	—	LCB110
	SPST-NO	6 Dip	5/100	150mA	400	1/.25	CLA107-ND	4.36	3.69	3.02	—	PLA110
	SPST-NO	6-SMD	5/50	150mA	400	1/0.5	CLA156-ND *NEW!*	3.84	3.25	2.66	—	PLA110S
2	DPST-NO	8 Dip	5/100	120mA	350	3/3	CLA103-ND	5.43	4.60	3.76	—	LAA110
3	DPST-NC/NO	8 Dip	5/100	120mA	350	3/3	CLA104-ND	5.92	5.01	4.10	—	LBA110
4	DPST-NC/NO	8 Dip	8/100	120mA	350	4/4	CLA106-ND	5.33	4.51	3.69	—	LCC110
5	TELCOM	8 Dip	2/6	120mA	350	3/3	CLA108-ND	3.54	3.00	2.46	—	TS117
	TELCOM	8-SMD	2/6	120mA	350	3/3	CLA110CT-ND‡	6.79	5.75	4.71	1320.00	TS117STR
6	DUAL TRANS	8 Dip	1/2	120mA	350	5/2	CLA113-ND	3.67	3.11	2.55	—	LOC110
	DUAL TRANS	8-SMD	1/2	120mA	350	5/2	CLA114CT-ND‡	4.88	4.13	3.38	1495.00	LOC110STR
	DUAL TRANS	8 Dip	2/50	120mA	350	5/2	CLA116-ND	4.13	3.50	2.86	—	LOC111
	DUAL TRANS	Flat Pk.	2/50	120mA	350	5/2	CLA118CT-ND‡	5.27	4.46	3.65	1651.00	LOC111PTR
7	SPST-NO	8 SIP	5/50	1A	260	0.5/0.5	CLA158-ND *NEW!*	3.58	3.03	2.48	—	CPC1965Y
8	SPST-NO	16 Dip	5/50	1A	260	0.5/0.5	CLA157-ND *NEW!*	3.58	3.03	2.48	—	CPC1965G
9	SPST-NO	4-SOP	2/50	120mA	350	2/1	CLA151-ND *NEW!*	1.79	1.52	1.24	—	CPC1035N
	SPST-NO	4-SOP	2/50	120mA	350	2/1	CLA152-ND *NEW!*	2.05	1.74	1.42	—	CPC1030N
	SPST-NO	4-SOP	1/50	100mA	60	10/10	CLA153-ND *NEW!*	1.27	1.08	.88	—	CPC1017N
	SPST-NO	4-SOP	2/50	300mA	300	3/1	CLA154-ND *NEW!*	1.82	1.54	1.26	—	CPC1004N
	SPST-NO	4-SOP	2/50	120mA	350	1/2	CLA155-ND *NEW!*	2.02	1.71	1.40	—	CPC1150N

* Input Voltage - 1.2V Typical, 1.4V Max. † For Tape and Reel Part Number, change CT-ND to TR-ND. ‡ CT- Cut Tape package

Fig. 1

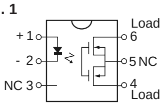


Fig. 2

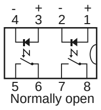


Fig. 3

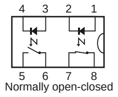


Fig. 4

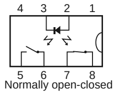


Fig. 5

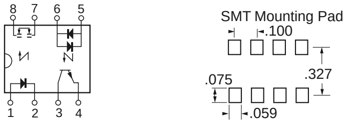


Fig. 6

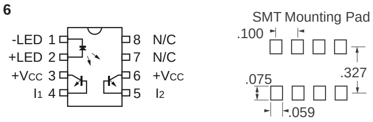


Fig. 7 *NEW!*

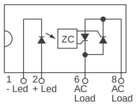


Fig. 8 *NEW!*

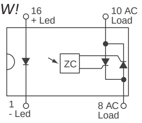
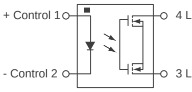


Fig. 9 *NEW!*



International
IOR Rectifier

Microelectronic Power IC Relays

Fig. 1

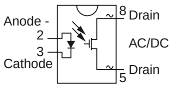


Fig. 2

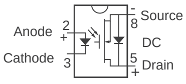


Fig. 3

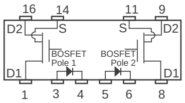


Fig. 4

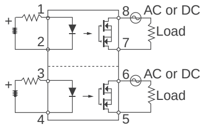


Fig. 5

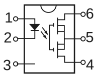


Fig. 6

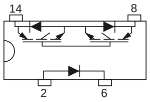


Fig. 7

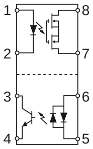


Fig.	Input Circuit Vf (led)	Imin (mA)	Imax	Vrange	Output Circuit Imax (mA)	Ton/ Toff	Package	Digi-Key Part No.	Price Each 1	10	100
1	1.0	5	25	0-60V AC/DC	1000	2ms/0.5ms	8-SMD	PVAZ172NS-ND	9.14	7.31	5.49
	1.2	10	25	0-60V AC/DC	1000	2ms/0.5ms	8-Dip	PVAZ172N-ND	9.85	7.89	6.90
	7.0	2	25	0 to ±100V AC/DC	550	150µs/70µs	8-Dip	PVA1352N-ND	6.00	4.80	3.60
	7.0	2	25	0 to ±100V AC/DC	550	150µs/70µs	8-SMD	PVA1352NS-ND	6.08	4.17	3.65
	7.0	2	25	0 to ±100V AC/DC	550	150µs/70µs	8-Dip	PVA1354N-ND	6.50	5.20	3.90
	7.0	2	25	0 to ±100V AC/DC	550	150µs/70µs	8-SMD	PVA1354NS-ND	6.58	4.51	3.95
	7.0	2	25	0 to ±200V AC/DC	150	100µs/70µs	8-Dip	PVA2352N-ND	5.38	4.30	3.23
	7.0	—	25	0 to ±200V AC/DC	150	100µs/70µs	8-SMD	PVA2352NS-ND	5.45	3.74	3.27
	7.0	2	25	0 to ±300V AC/DC	50	60µs/60µs	8-Dip	PVA3054N-ND	6.50	5.20	3.90
	7.0	2	25	0 to ±300V AC/DC	50	60µs/60µs	8-SMD	PVA3054NS-ND	6.58	4.51	3.95
	7.0	2	25	0 to ±300V AC/DC	50	60µs/60µs	8-Dip	PVA3055N-ND	7.50	6.00	4.50
	7.0	2	25	0 to ±300V AC/DC	50	60µs/60µs	8-SMD	PVA3055NS-ND	7.58	5.20	4.55
	7.0	2	25	0 to ±300V AC/DC	150	100µs/70µs	8-Dip	PVA3324N-ND	7.50	6.00	4.50
	7.0	1	25	0 to ±300V AC/DC	150	100µs/70µs	8-SMD	PVA3324NS-ND	7.58	5.20	4.55
	7.0	2	25	0 to ±300V AC/DC	150	100µs/70µs	8-Dip	PVA3354N-ND	6.50	5.20	3.69
	7.0	—	25	0 to ±300V AC/DC	150	100µs/70µs	8-SMD	PVA3354NS-ND	6.58	4.51	3.95
	7.0	2	25	0 to ±100V AC/DC	160	25µs/15µs	8-Dip	PVD1352N-ND	6.38	5.10	3.83
	7.0	2	25	0 to ±100V AC/DC	550	25µs/15µs	8-Dip	PVD1354N-ND	6.88	5.50	4.13
2	1.2	20	25	0-60V DC	1500	2ms/0.5ms	8-Dip	PVDZ172N-ND	8.50	6.80	5.95
	1.25	5	25	0-60V DC	1500	2ms/0.5ms	8-SMD	PVDZ172NS-ND	6.55	4.59	3.99
	7.0	2	25	0-100V DC	550	150µs/70µs	8-SMD	PVD1352NS-ND	6.45	4.43	3.87
	7.0	2	25	0-100V DC	550	150µs/70µs	8-SMD	PVD1354NS-ND	6.95	4.77	4.17
	7.0	2	25	0-200VDC	240	100µs/70µs	8-Dip	PVD2352N-ND	5.75	4.60	3.45
	7.0	2	25	0-300VDC	240	100µs/70µs	8-SMD	PVD2352NS-ND	5.83	4.00	3.50
	7.0	2	25	0-300VDC	240	100µs/70µs	8-Dip	PVD3354N-ND	6.88	5.50	4.37
	7.0	2	25	0-300VDC	240	100µs/70µs	8-SMD	PVD3354NS-ND	6.95	4.77	4.17
3	7.0	2	25	0 to ±100V AC/DC	360	150µs/70µs	16-Dip	PVR1300N-ND	13.13	10.50	7.88
	7.0	2	25	0 to ±100V AC/DC	360	150µs/70µs	16-Dip	PVR1301N-ND	14.00	11.20	8.40
	7.0	2	25	0 to ±200V AC/DC	165	100µs/70µs	16-Dip	PVR2300N-ND	11.88	9.50	7.13
	7.0	2	25	0 to ±300V AC/DC	165	100µs/70µs	16-Dip	PVR3300N-ND	13.13	10.50	7.88
	7.0	2	25	0 to ±300V AC/DC	165	100µs/70µs	16-Dip	PVR3301N-ND	14.00	11.20	8.40
4	1.25	2	25	0-250V AC/DC	170	3ms/0.5ms	8-Dip	PVT322-ND	4.82	3.86	3.38
	1.25	2	25	0-250V AC/DC	170	3.0ms/0.5ms	8-SMD	PVT322S-ND	5.38	4.30	3.76
	1.25	2	25	0 to ±250V AC/DC	170	3.0ms/0.5ms	8-SMD	PVT322AS-TTR-ND		3956.25/750	
	1.2	2	25	0-400V AC/DC	120	2ms/2ms	8-Dip	PVT422-ND	5.20	4.16	3.64
	1.25	2	25	0-400V AC/DC	120	2ms/2ms	SMD Thin-Pak	PVT422P-ND	5.68	4.54	3.98
5	1.2	5	25	0-60V AC/DC	1000	2ms/0.5ms	6-Dip	PVG612-ND	5.96	4.30	3.52
	1.25	5	25	0 to ± 60V AC/DC	1000	2.0ms/0.5ms	6-SMD	PVG612S-ND	5.81	4.65	4.07
	7.0	5	25	0 to ± 60V AC/DC	1.0	2.0ms/0.5ms	6-Dip	PVG613-ND	9.48	6.50	5.69
	7.0	5	25	0 to ± 60V AC/DC	1.0	2.0ms/0.5ms	6-SMD	PVG613S-ND	9.58	6.57	5.75
	1.2	3	25	0-20V AC/DC	2500	5ms/0.5ms	6-Dip	PVN012-ND	5.85	4.68	4.10
	1.25	3	25	0 to ±20V AC/DC	2500	5.0ms/0.5ms	6-SMD	PVN012S-ND	5.80	4.64	4.06
	7.0	3	25	0 to ±20V AC/DC	2.5	5.0ms/0.5ms	6-Dip	PVN013-ND	9.48	6.50	5.69
	7.0	3	25	0 to ±20V AC/DC	2.5	5.0ms/0.5ms	6-SMD	PVN013S-ND	9.58	6.57	5.75
	1.2	2	25	0-250V AC/DC	190	3ms/0.5ms	6-Dip	PVT312-ND	2.55	2.04	1.79
	1.2	2	25	0-250V AC/DC	170	3ms/0.5ms	6-Dip	PVT312L-ND†	2.60	2.08	1.82
	1.2	5	25	0-400V AC/DC	140	2ms/0.5ms	6-Dip	PVT412-ND	2.55	2.04	1.79
	1.2	5	25	0-400V AC/DC	120	2ms/0.5ms	6-Dip	PVT412L-ND	2.60	2.08	1.82
	1.25	3	25	0 to ±400V AC/DC	140	2.0ms/0.5ms	6-SMD	PVT412LS-ND	2.65	2.12	1.85
	1.25	3	25	0 to ±400V AC/DC	140	2.0ms/0.5ms	6-SMD	PVT412S-ND	2.58	2.06	1.81
	1.2	5	25	0-400V AC/DC	140	500µs/200µs	6-Dip	PVU414-ND	5.45	4.36	3.82
6	1.25	5	25	0-280V(AC) RMS 0-400V (DC)	1000	7ms/1ms	14-Dip	PVX6012-ND	10.88	8.70	6.69
7	1.25	3	25	0-400V AC/DC	120	2.0ms/0.5ms	Thin-Pak	PVO402P-ND	5.95	4.76	4.18
	0.4	5	25	0 to ±400V AC/DC	150	1.0ms/0.5ms	SMD Thin-Pak	PVO402AP-ND	5.57	3.97	3.28

† Employs current limiting circuitry to withstand current transients.

SHARP® MICROELECTRONICS OF THE AMERICAS

Solid State Relays

	Input			Output					Tube Price Each			
Fig.	Voltage Typ.	Current Min. (mA)	Max.	Voltage VRMS Max.	Current IT (RMS) (A)	Holding Current (mA) Max.	Package Type	Digi-Key Part No.	1	10	25	Sharp Part No.
1	1.2	5	50	280	1.5	25	16-Dip	425-1182-5-ND	2.55	2.13	1.81	PR21HD22NSZ
		10	50	280	1.5	25	16-Dip	425-1207-5-ND	2.52	2.10	1.79	S101DH2
		5	50	420	1.5	25	16-Dip	425-1193-5-ND	2.73	2.28	1.94	PR31HD22NSZ
2	1.2	5	50	280	0.6	25	8-SMD	425-1380-1-ND‡	1.60	—	1.20	PR26MF11NIP
								425-1380-2-NDΔ#		520.00/1,000		PR26MF11NIP
		5	50	280	0.6	25	8-Dip	425-1184-5-ND	1.30	1.10	1.00	PR26MF12NSZ
		5	50	280	0.9	25	8-Dip	425-1187-5-ND	1.56	1.32	1.20	PR29MF12NSZ
		10	50	280	0.6	25	8-Dip	425-1183-5-ND	1.27	1.08	.98	PR26MF11NSZ
		10	50	280	0.9	25	8-Dip	425-1186-5-ND	1.53	1.30	1.18	PR29MF11NSZ
		5	50	420	0.6	25	8-Dip	425-1197-5-ND	1.63	1.38	1.25	PR36MF12NSZ
		5	50	420	0.9	25	8-Dip	425-1202-5-ND	1.74	1.45	1.24	PR39MF12NSZ
		10	50	420	0.6	25	8-Dip	425-1196-5-ND	1.50	1.27	1.15	PR36MF11NSZ
		10	50	420	0.9	25	8-Dip	425-1201-5-ND	1.59	1.33	1.13	PR39MF11NSZ
		10	50	420	1.2	25	8-Dip	425-1205-5-ND	1.59	1.33	1.13	PR3BMF11NSZ
3	1.2	10	50	280	0.6	25	8-Dip	425-1185-5-ND	1.40	1.19	1.08	PR26MF21NSZ
		10	50	280	0.9	25	8-Dip	425-1188-5-ND	1.56	1.30	1.11	PR29MF21NSZ
		5	50	420	0.3	25	8-Dip	425-1195-5-ND	1.74	1.45	1.24	PR33MD22NSZ
		5	50	420	0.6	25	8-Dip	425-1199-5-ND	1.68	1.40	1.19	PR36MF22NSZ
		5	50	420	0.9	25	8-Dip	425-1200-5-ND	2.19	1.83	1.56	PR39MD22NSZ
		5	50	420	0.9	25	8-Dip	425-1204-5-ND	1.92	1.60	1.36	PR39MF22NSZ
		10	50	420	0.6	25	8-Dip	425-1198-5-ND	1.63	1.38	1.25	PR36MF21NSZ
		10	50	420	0.9	25	8-Dip	425-1203-5-ND	1.74	1.45	1.24	PR39MF21NSZ
4	1.2	10	50	420	.06	3.5	6-Dip	425-1194-5-ND	1.40	1.19	1.08	PR31MA11NTZ
5	1.2	10	50	280	1.5	25	16-Dip	425-1206-5-ND	2.22	1.85	1.58	S101DH1
		10	50	420	1.5	25	16-Dip	425-1240-5-ND	2.43	2.03	1.73	S201DH1
6	1.2	8	50	280	8.0	50	4-Sip	425-1217-5-ND	8.15	7.34	6.52	S102S11
		8	50	420	8.0	50	4-Sip	425-1248-5-ND	8.70	7.83	6.96	S202S11
		10	50	420	8.0	50	4-Sip	425-1189-5-ND	5.98	5.38	4.78	PR308S31ESU
7	1.2	8	50	280	8.0	50	4-Sip	425-1218-5-ND	8.98	8.08	7.18	S102S12
		15	50	280	3.0	50	4-Sip	425-1213-5-ND	5.40	4.86	4.32	S101S16V
		8	50	420	8.0	50	4-Sip	425-1249-5-ND	9.40	8.46	7.52	S202S12
		8	50	420	16.0	25	4-Sip	425-1254-5-ND	7.00	6.30	5.60	S202TA1
		10	50	420	8.0	50	4-Sip	425-1190-5-ND	6.13	5.52	4.90	PR308S41ESU
8	1.2	8	50	280	2.0	25	4-Sip	425-1219-5-ND	3.50	3.15	2.80	S102T01
		8	50	280	8.0	50	4-Sip	425-1223-5-ND	4.13	3.72	3.30	S108T01
		8	50	420	2.0	25	4-Sip	425-1252-5-ND	3.85	3.47	3.08	S202T01
		8	50	420	2.0	25	4-Sip	425-1255-5-ND*	3.73	3.36	2.98	S202TY1
		8	50	420	5.0	50	4-Sip	425-1257-5-ND	4.13	3.72	3.30	S205T01
		8	50	420	5.0	50	4-Sip	425-1259-5-ND*	3.88	3.49	3.10	S205TY1
		8	50	420	8.0	50	4-Sip	425-1261-5-ND	4.45	4.01	3.56	S208T01
		8	50	420	8.0	50	4-Sip	425-1263-5-ND*	4.23	3.81	3.38	S208TY1
		10	50	420	8.0	50	4-Sip	425-1191-5-ND	4.78	4.30	3.82	PR308T11ESZ
9	1.2	8	50	280	2.0	25	4-Sip	425-1220-5-ND	4.00	3.60	3.20	S102T02
		8	50	280	8.0	50	4-Sip	425-1224-5-ND	4.35	3.92	3.48	S108T02
		8	50	420	2.0	25	4-Sip	425-1253-5-ND	3.83	3.45	3.06	S202T02
		8	50	420	2.0	25	4-Sip	425-1256-5-ND*	3.80	3.42	3.04	S202TY2
		8	50	420	5.0	50	4-Sip	425-1258-5-ND	4.60	4.14	3.68	S205T02
		8	50	420	5.0	50	4-Sip	425-1260-5-ND*	3.90	3.51	3.12	S205TY2
		8	50	420	8.0	50	4-Sip	425-1262-5-ND	4.80	4.32	3.84	S208T02
		8	50	420	8.0	50	4-Sip	425-1264-5-ND*	4.25	3.83	3.40	S208TY2
		10	50	420	8.0	50	4-Sip	425-1192-5-ND	4.93	4.44	3.94	PR308T21ESZ
10	5	—	—	120	1.6	10	4-Sip	425-1208-5-ND	4.78	4.30	3.82	S101N11
		—	—	240	1.6	20	4-Sip	425-1241-5-ND	5.08	4.57	4.06	S201N11
11	5	—	—	120	1.6	10	4-Sip	425-1209-5-ND	4.93	4.44	3.94	S101N12
		—	—	240	1.6	20	4-Sip	425-1242-5-ND	5.25	4.73	4.20	S201N12
12	1.2	8	50	280	8.0	50	4-Sip	425-1214-5-ND	4.13	3.72	3.30	S102S01
		8	50	280	12.0	50	4-Sip	425-1225-5-ND	5.00	4.50	4.00	S112S01
		8	50	280	16.0	50	4-Sip	425-1227-5-ND	5.55	5.00	4.44	S116S01
		15	50	280	3.0	50	4-Sip	425-1210-5-ND	3.98	3.58	3.18	S101S05V
		8	50	420	8.0	50	4-Sip	425-1245-5-ND	4.28	3.85	3.42	S202S01
		8	50	420	8.0	50	4-Sip	425-1250-5-ND	4.73	4.26	3.78	S202SE1
		8	50	420	12.0	50	4-Sip	425-1265-5-ND	5.20	4.68	4.16	S212S01
		8	50	420	16.0	50	4-Sip	425-1266-5-ND	5.50	4.95	4.40	S216S01
		8	50	420	16.0	50	4-Sip	425-1268-5-ND	6.08	5.47	4.86	S216SE1
		15	50	420	3.0	50	4-Sip	425-1243-5-ND	4.13	3.72	3.30	S201S05V
13	1.2	8	50	280	8.0	50	4-Sip	425-1215-5-ND	4.33	3.90	3.46	S102S02
		8	50	280	12.0	50	4-Sip	425-1226-5-ND	5.55	5.00	4.44	S112S02
		8	50	280	16.0	50	4-Sip	425-1228-5-ND	6.05	5.45	4.84	S116S02
		15	50	280	3.0	50	4-Sip	425-1211-5-ND	4.28	3.85	3.42	S101S06V
		8	50	420	8.0	50	4-Sip	425-1246-5-ND	5.25	4.73	4.20	S202S02
		8	50	420	8.0	50	4-Sip	425-1251-5-ND	5.25	4.73	4.20	S202SE2
		8	50	420	16.0	50	4-Sip	425-1267-5-ND	5.83	5.25	4.66	S216S02
		8	50	420	16.0	50	4-Sip	425-1269-5-ND	6.23	5.61	4.98	S216SE2
		15	50	420	3.0	50	4-Sip	425-1244-5-ND	4.60	4.14	3.68	S201S06V

* Approved by TUV, No. R9750791 and DIN-VDE 0884 # Pending UL and CSA approval ‡ Cut Tape product Δ Tape & Reel product

Fig. 1

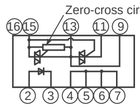


Fig. 2

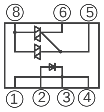


Fig. 3

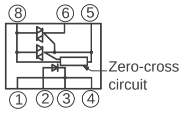


Fig. 4

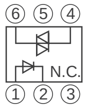


Fig. 5

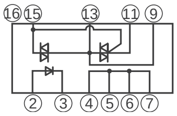


Fig. 6

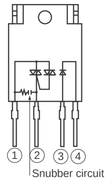


Fig. 7

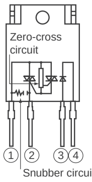


Fig. 8

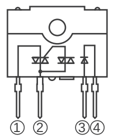


Fig. 9

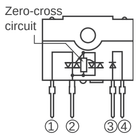


Fig. 10

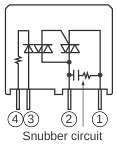


Fig. 11

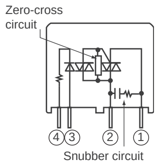


Fig. 12

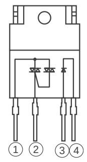
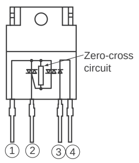


Fig. 13



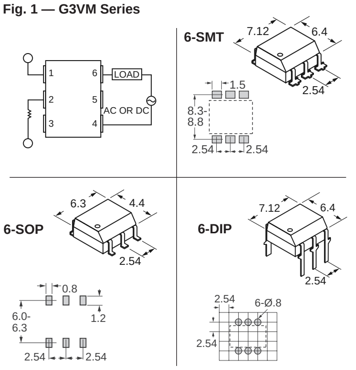
OMRON® Solid State Relays

Omron's G3VM Relays are PCB mounted solid state switches available in a variety of packages and configurations. Extremely low input current and small package make these ideal for microprocessor and logic switching relays. G3M and G3MB relays are larger current relays but offered in a SIP package to reduce board space. Perfect for controlling pumps, alarms, solenoids, etc. Comes with protective cover for safety. Phase controlled outputs are ideal for use in light dimming, motor-speed control, and other power control applications. Approved by UL and CSA.

The G3R relays are drop-in replacements to the popular G2R Eletromechanical relays. Perfect for compact Din-Rail mounting and applications requiring the long life of solid state relays. G3TC series are replacement to standard I/O modules. Replaces Opto22, Gordos and many other I/O modules. Perfect for multiple output controls.

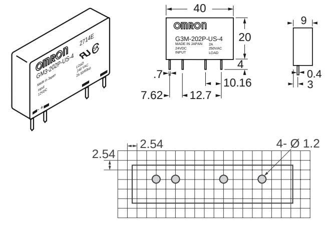
Fig.	Contact Arrange.	Input Voltage	Input Current (mA)	Output Volt. (Peak)	Output Current	Package	Digi-Key Part No.	Price Each			Omron Part No.
								1	25	50	
MOSFET-Solid State Relays											
1	SPST-NO	1.15V	5 to 25	350V	120mA	4-Dip	Z150-ND	3.10	2.79	2.48	G3VM-2
	SPST-NO	1.15V	5 to 25	350V	120mA	4-SMT	Z151-ND	3.10	2.79	2.48	G3VM-2F-S
	SPST-NO	1.15V	5 to 25	350V	120mA	6-Dip	Z152-ND	3.10	2.79	2.48	G3VM-3-S
	SPST-NO	1.15V	5 to 25	350V	120mA	6-SMT	Z153-ND	3.10	2.79	2.48	G3VM-3F-S
	DPST-NO	1.15V	5 to 25	350V	100mA	8-Dip	Z154-ND	6.28	5.65	5.02	G3VM-W-S
	DPST-NO	1.15V	5 to 25	350V	100mA	8-SMT	Z155-ND	6.28	5.65	5.02	G3VM-WF-S
1	SPST-NO	1.15V	7.5 to 25	60V	300mA	6-Dip	Z156-ND	3.10	2.79	2.48	G3VM-V-S
	SPST-NO	1.15V	7.5 to 25	60V	300mA	6-SMT	Z157-ND	3.10	2.79	2.48	G3VM-VF-S
	SPST-NO	1.15V	7.5 to 25	60V	300mA	6-Dip	Z227-ND	9.03	8.13	7.22	G3VM-XN-S
	SPST-NO	1.15V	7.5 to 25	60V	300mA	6-SMT	Z228-ND	9.03	8.13	7.22	G3VM-XNF-S
	SPST-NO	1.15V	7.5 to 25	400V	150mA	6-Dip	Z229-ND	9.03	8.13	7.22	G3VM-4N-S
	SPST-NO	1.15V	7.5 to 25	400V	150mA	6-SMT	Z230-ND	9.03	8.13	7.22	G3VM-4NF-S
1	SPST-NO	1.15V	5 to 25	60V	300mA	4-SOP	Z1039-ND	4.43	3.99	3.54	G3VM-S1
	SPST-NO	1.15V	5 to 25	600V	100mA	6-Dip	Z1040-ND	8.60	7.74	6.88	G3VM-601BY
	SPST-NO	1.15V	5 to 25	600V	100mA	6-SMT	Z1041-ND	8.60	7.74	6.88	G3VM-601EY
	DPST-NO	1.15V	5 to 25	200V	150mA	8-Dip	Z1042-ND	17.70	15.93	14.16	G3VM-354C
	DPST-NO	1.15V	5 to 25	200V	150mA	8-SMT	Z1043-ND	17.70	15.93	14.16	G3VM-354F
	SPST-NO	1.15V	5 to 25	400V	150mA	4-Dip	Z1044-ND	9.45	8.51	7.56	G3VM-353A
	SPST-NO	1.15V	5 to 25	400V	150mA	6-Dip	Z1045-ND	9.45	8.51	7.56	G3VM-353B
1	SPST-NO	1.15V	5 to 25	400V	150mA	6-Dip	Z158-ND	5.68	5.11	4.54	G3VM-6-S
	SPST-NO	1.15V	5 to 25	400V	150mA	6-SMT	Z159-ND	5.68	5.11	4.54	G3VM-6F-S
	SPST-NO	1.15V	5 to 25	350V	120mA	4-SOP	Z160-ND	3.58	3.22	2.86	G3VM-S2
	SPST-NO	1.15V	5 to 25	350V	120mA	6-SOP	Z161-ND	6.00	5.40	4.80	G3VM-S3-S
	SPST-NO	1.15V	5 to 25	200V	150mA	4-SOP	Z162-ND	3.58	3.22	2.86	G3VM-S5
	SPST-NO	1.15V	5 to 25	400V	150mA	4-SMT	Z1046-ND	9.45	8.51	7.56	G3VM-353D
1	SPST-NO	1.15V	5 to 25	400V	150mA	6-SMT	Z1047-ND	9.45	8.51	7.56	G3VM-353E
	DPST-NO	1.15V	5 to 25	350V	120mA	8-SOP	Z163-ND	7.95	7.16	6.36	G3VM-SW-S
	DPST-NO	1.15V	5 to 25	60V	200mA	8-SOP	Z164-ND	7.95	7.16	6.36	G3VM-SY-S
Zero-Cross Output											
2	SPST-NO	4 to 6 VDC	—	75 to 264 VAC	.1 to 2A	Std. Sip	Z900-ND	9.00	8.10	7.20	G3M-202P-US-4-DC5
	SPST-NO	9.6 to 14.4 VDC	—	75 to 264 VAC	.1 to 2A	Std. Sip	Z901-ND	9.00	8.10	7.20	G3M-202P-US-4-DC12
	SPST-NO	19.2 to 28.8 VDC	—	75 to 264 VAC	.1 to 2A	Std. Sip	Z902-ND	9.90	8.91	7.92	G3M-202P-US-4-DC24
Phase Controlled Output											
2	SPST-NO	4 to 6 VDC	—	75 to 132 VAC	.1 to 2A	Std. Sip	Z903-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC5
	SPST-NO	9.6 to 14.4 VDC	—	75 to 132 VAC	.1 to 2A	Std. Sip	Z904-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC12
	SPST-NO	19.2 to 28.8 VDC	—	75 to 132 VAC	.1 to 2A	Std. Sip	Z905-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC24
	SPST-NO	4 to 6 VDC	—	75 to 264 VAC	.1 to 2A	Std. Sip	Z906-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC5
	SPST-NO	9.6 to 14.4 VDC	—	75 to 264 VAC	.1 to 2A	Std. Sip	Z907-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC12
	SPST-NO	19.2 to 28.8 VDC	—	75 to 264 VAC	.1 to 2A	Std. Sip	Z908-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC24
Zero-Cross Output											
3	SPST-NO	4 to 6 VDC	—	75 to 264 VAC	.1 to 2A	Mini Sip	Z909-ND	4.33	3.90	3.46	G3MB-202P-DC5
	SPST-NO	9.6 to 14.4 VDC	—	75 to 264 VAC	.1 to 2A	Mini Sip	Z910-ND	4.33	3.90	3.46	G3MB-202P-DC12
	SPST-NO	19.2 to 28.8 VDC	—	75 to 264 VAC	.1 to 2A	Mini Sip	Z911-ND	4.33	3.90	3.46	G3MB-202P-DC24
3	SPST-NO	4 to 6 VDC	—	75 to 132 VAC	.1 to 1A	Micro Sip	Z1195-ND	3.73	3.36	2.98	G3MC-101P-DC5
	SPST-NO	9.6 to 14.4 VDC	—	75 to 132 VAC	.1 to 1A	Micro Sip	Z1236-ND	3.73	3.36	2.98	G3MC-101P-DC12
	SPST-NO	19.2 to 28.8 VDC	—	75 to 132 VAC	.1 to 1A	Micro Sip	Z1237-ND	3.73	3.36	2.98	G3MC-101P-DC24
Random Turn-On Output											
3	SPST-NO	4 to 6 VDC	—	75 to 132 VAC	.1 to 1A	Micro Sip	Z1196-ND	3.40	3.06	2.72	G3MC-101PL-DC5
	SPST-NO	9.6 to 14.4 VDC	—	75 to 132 VAC	.1 to 1A	Micro Sip	Z1197-ND	3.40	3.06	2.72	G3MC-101PL-DC12
	SPST-NO	19.2 to 28.8 VDC	—	75 to 132 VAC	.1 to 1A	Micro Sip	Z1198-ND	3.40	3.06	2.72	G3MC-101PL-DC24
3	SPST-NO	4 to 6 VDC	—	75 to 132 VAC	.1 to 2A	Mini Sip	Z912-ND	3.53	3.18	2.82	G3MB-102PL-DC5
	SPST-NO	9.6 to 14.4 VDC	—	75 to 132 VAC	.1 to 2A	Mini Sip	Z913-ND	3.53	3.18	2.82	G3MB-102PL-DC12
	SPST-NO	19.2 to 28.8 VDC	—	75 to 132 VAC	.1 to 2A	Mini Sip	Z914-ND	3.53	3.18	2.82	G3MB-102PL-DC24
	SPST-NO	4 to 6 VDC	—	75 to 264 VAC	.1 to 2A	Mini Sip	Z915-ND	3.93	3.54	3.14	G3MB-202PL-DC5
	SPST-NO	9.6 to 14.4 VDC	—	75 to 264 VAC	.1 to 2A	Mini Sip	Z916-ND	3.93	3.54	3.14	G3MB-202PL-DC12
	SPST-NO	19.2 to 28.8 VDC	—	75 to 264 VAC	.1 to 2A	Mini Sip	Z917-ND	3.93	3.54	3.14	G3MB-202PL-DC24
Zero Cross Output											
4	SPST-NO	5 to 24 VDC	8	4 to 60 VDC	.01 to 2A	QC Style	Z1193-ND	20.28	18.25	16.22	G3R-ODX02SN-DC5-24
	SPST-NO	5 to 24 VDC	8	40 to 200 VDC	.01 to 1.5A	QC Style	Z1194-ND	23.33	21.00	18.66	G3R-OD201SN-DC5-24
	SPST-NO	5 to 24 VDC	15	75 to 264 VAC	.05 to 2A	QC Style	Z1192-ND	21.45	19.31	17.16	G3R-OA202SZN-DC5-24
	SPST-NO	5 to 24 VDC	15	75 to 264 VAC	.05 to 2A	QC Style	Z1235-ND	30.10	27.09	24.08	G3R-OA202SLN-DC5-24
Random Turn-on Output											
4	SPST-NO	4 to 6 VDC	8	4 to 32 VDC	.1A	QC Style	Z1190-ND	18.18	16.36	14.54	G3R-IDZR1SN-DC5
	SPST-NO	12 to 24 VDC	8	4 to 32 VDC	.1A	QC Style	Z1191-ND	18.18	16.36	14.54	G3R-IDZR1SN-DC12-24
	SPST-NO	100 to 240 VAC	15	4 to 32 VDC	.1A	QC Style	Z1234-ND	22.88	20.59	18.30	G3R-IAZR1SN-AC100/240
G3TC I/O Modules											
5	SPST-NO	90 to 140 VAC	—	4 to 6 VDC	25mA	Sip/Yellow	Z2018-ND	14.90	13.41	11.92	G3TC-IAC-5A AC/DC240
	SPST-NO	90 to 140 VAC	—	9 to 14 VDC	25mA	Sip/Yellow	Z2019-ND	13.53	12.18	10.82	G3TC-IAC-15 AC/DC120
	SPST-NO	90 to 140 VAC	—	19 to 28 VDC	25mA	Sip/Yellow	Z2020-ND	13.53	12.18	10.82	G3TC-IAC-24 AC/DC120
	SPST-NO	180 to 280 VAC	—	4 to 6 VDC	25mA	Sip/Yellow	Z2021-ND	13.53	12.18	10.82	G3TC-IAC5 AC/DC120
	SPST-NO	4 to 6 VDC	—	12 to 140 VAC	3A	Sip/Black	Z2027-ND	14.05	12.65	11.24	G3TC-OAC5-DC5
	SPST-NO	9 to 14 VDC	—	12 to 140 VAC	3A	Sip/Black	Z2025-ND	14.05	12.65	11.24	G3TC-OAC15-DC15
	SPST-NO	19 to 28 VDC	—	12 to 140 VAC	3A	Sip/Black	Z2026-ND	14.05	12.65	11.24	G3TC-OAC24-DC24
	SPST-NO	4 to 6 VDC	—	75 to 260 VAC	3A	Sip/Black	Z2028-ND	14.90	13.41	11.92	G3TC-OAC5A-DC5
	SPST-NO	10 to 32 VDC	—	4 to 6 V	25mA	Sip/White	Z2024-ND	13.38	12.04	10.70	G3TC-IDC5-DC/AC24
	SPST-NO	10 to 32 VDC	—	9 to 14 V	25mA	Sip/White	Z2022-ND	13.38	12.04	10.70	G3TC-IDC15-DC/AC24
	SPST-NO	10 to 32 VDC	—	19 to 28 V	25mA	Sip/White	Z2023-ND	13.38	12.04	10.70	G3TC-IDC24-DC/AC24
	SPST-NO	4 to 6 VDC	—	5 to 60 V	3A	Sip/Red	Z2031-ND	14.18	12.76	11.34	G3TC-ODC5-DC5
	SPST-NO	9 to 14 VDC	—	5 to 60 V	3A	Sip/Red	Z2029-ND	14.18	12.76	11.34	G3TC-ODC15-DC15
	SPST-NO	19 to 28 VDC	—	5 to 60 V	3A	Sip/Red	Z2030-ND	14.18	12.76	11.34	G3TC-ODC24-DC24
	SPST-NO	4 to 6 VDC	—	5 to 60 V	3A	Sip/Red	Z2032-ND	15.38	13.84	12.30	G3TC-ODC5A-DC5

Fig. 1 — G3VM Series



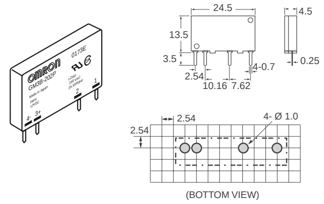
MOSFET relays boast performance with long life, low input drive, and high-speed response to handle minute analog signals with minimum current leakage. The standard G3VM MOSFET relays have dielectric strength of 2,500 VAC between I/O terminals (except SOP relays).

Fig. 2 — G3M Series



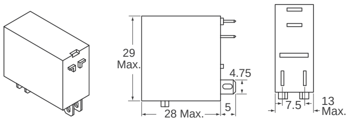
Features: • Zero-cross type or random turn-on • Thin design for high-density PCB applications • DC input — AC output for 2A load • Footprint compatible with industry standard I/O modules • Low cost **Characteristic Data:** • Operate time: 1ms max. • Output ON voltage drop: 1.6V (RMS) max. • Leakage Current: 2mA max. (at 100VAC); 5mA max. (at 200VAC) • Operating Temperature: -30° to 80°C

Fig. 3 — G3MB/MC Series



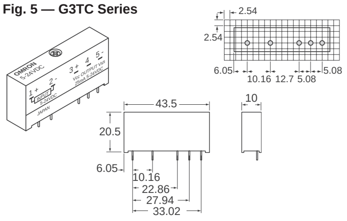
Features: • Low-cost, subminiature, PCB-mounting, solid-state relay switching 2A • DC input: AC output for 2A load at 25°C • Mono-block lead frame facilitates heat dissipation without use of heat sink • Smaller Footprint (Approximately 20% smaller than G3MB) is ideal for close PCB Mounting applications • Built-In Snubber Circuit **Characteristic Data:** • Leakage Current: 1.5mA max. • Operating Temperature: -30° to 80°C

Fig. 4 — G3R Series



Features: • Input / Output Modules that have the same footprint as the G2R • Incorporating an easy-to-see monitoring indicator **Characteristic Data:** • Leakage Current: 5µA max. • Operating Temperature: -30°C to 80°C
• For socket use Z855-ND

Fig. 5 — G3TC Series

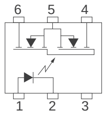


Features: • Standard sized I/O modules for replacement to OPTO22 • Continental and Gordos relays

NEC

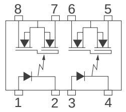
OCMOS FET Solid State Relays

Fig. 1



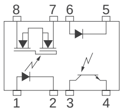
1 LED Anode
2 LED Cathode
3 NC
4 MOSFET Drain
5 MOSFET Source
6 MOSFET Drain

Fig. 2



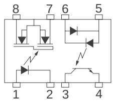
1 LED Anode
2 LED Cathode
3 LED Anode
4 LED Cathode
5 MOSFET
6 MOSFET
7 MOSFET
8 MOSFET

Fig. 3



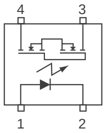
1 LED Anode
2 LED Cathode
3 Tr Collector
4 Tr Emitter
5 LED Anode
6 LED Cathode
7 MOSFET
8 MOSFET

Fig. 4



1 LED Anode
2 LED Cathode
3 Tr Collector
4 Tr Collector
5 LED Anode/Cathode
6 LED Anode/Cathode
7 MOSFET
8 MOSFET

Fig. 5



1. LED Anode
2. LED Cathode
3. MOS FET
4. MOS FET

Fig.	V_{load} V	I_{load} mA	PD mW	Ron Ohms	t_{on} ms	t_{off} ms	Output Type	Digi-Key Part No.	Price Each 1	10	100
1	60	1800	560	0.2	3.0	1.0	1ch NO	PS710A-1A-ND	6.50	5.85	4.99
1	60	1800	560	0.2	3.0	1.0	1ch NO	PS710AL-1A-ND*	6.53	5.88	5.01
2	100	100	375	6	0.4	0.2	2ch NO	PS7111-2A-ND	5.88	5.29	4.51
2	100	100	375	6	0.4	0.2	2ch NO	PS7111L-2A-ND*	5.40	4.86	4.14
1	100	200	560	6	0.4	0.2	1ch NO	PS7112-1A-ND	3.25	2.93	2.50
1	100	200	560	6	0.4	0.2	1ch NO	PS7112L-1A-ND*	3.28	2.95	2.52
1	100	350	560	2.5	3	0.2	1ch NO	PS7113-1A-ND	3.00	2.70	2.30
1	100	350	560	2.5	3	0.2	1ch NO	PS7113L-1A-ND*	3.00	2.70	2.30
2	100	350	375	2.5	3	0.2	2ch NO	PS7113-2A-ND	5.80	5.22	4.45
2	100	350	375	2.5	3	0.2	2ch NO	PS7113L-2A-ND*	5.80	5.22	4.45
1	200	200	560	5	2	0.2	1ch NO	PS7122-1A-ND	3.25	2.93	2.50
1	200	200	560	5	2	0.2	1ch NO	PS7122L-1A-ND*	3.25	2.93	2.50
2	200	200	375	5	2	0.2	2ch NO	PS7122-2A-ND	6.50	5.85	4.99
2	200	200	375	5	2	0.2	2ch NO	PS7122L-2A-ND*	6.50	5.85	4.99
1	400	150	560	30	1	0.2	1ch NO	PS7141-1A-ND	2.50	2.25	1.92
1	400	150	560	30	1	0.2	1ch NO	PS7141L-1A-ND*	2.50	2.25	1.92
1	400	150	560	24	0.02	0.2	1ch NC	PS7141-1B-ND	2.75	2.48	2.11
1	400	150	560	24	0.02	0.2	1ch NC	PS7141L-1B-ND*	2.75	2.48	2.11
2	400	150	375	24	0.02	0.2	1A & 1B	PS7141-1C-ND	5.00	4.50	3.84
2	400	150	375	30	1	0.2	2ch NO	PS7141-2A-ND	5.25	4.73	4.03
2	400	150	375	24	0.02	0.2	2ch NC	PS7141-2B-ND	5.75	5.18	4.41
2	400	150	375	24	0.02	0.2	2ch NC	PS7141L-2B-ND*	5.00	4.50	3.84
1	400	200	560	10	5	0.2	1ch NO	PS7142-1A-ND	2.50	2.25	1.92
1	400	200	560	10	5	0.2	1ch NO	PS7142L-1A-ND*	3.55	3.20	2.73
1	600	90	560	50	1.5	0.2	1ch NO	PS7160-1A-ND	3.00	2.70	2.30
1	600	90	560	50	1.5	0.2	1ch NO	PS7160L-1A-ND*	3.00	2.70	2.30
2	600	90	375	50	1.5	0.2	2ch NO	PS7160-2A-ND	5.98	5.38	4.59
2	600	90	375	50	1.5	0.2	2ch NO	PS7160L-2A-ND*	5.98	5.38	4.59
5	60	600	300	0.8	2.0	0.5	1ch NO	PS7206-1A-ND†	4.25	3.83	3.26
2	100	100	150	6	2	0.2	2ch NO	PS7211-2A-ND†	5.98	5.38	4.59
5	100	400	300	1.2	2.0	1.0	1ch NO	PS7214-1A-ND†	4.13	3.72	3.17
4	400	120	430	30	1	0.2	1A & PS2701	PS7241-AT1-ND†	2.88	2.59	2.21
3	400	120	430	30	1	0.2	1A & PS2705	PS7241-AT5-ND†	3.13	2.82	2.40
5	400	120	300	30	2.0	0.2	1ch NO	PS7241-1A-ND†	2.42	2.02	1.70
5	400	120	300	30	0.2	2.0	1ch NC	PS7241-1B-ND†	3.45	3.11	2.65
5	40	100	100	12	0.5	0.2	1ch NO	PS7200A-1A-ND†	4.50	4.05	3.45
5	40	250	100	1.5	1.0	0.2	1ch NO	PS7200B-1A-ND†	4.88	4.39	3.74
5	40	160	100	3.5	0.5	1.0	1ch NO	PS7200H-1A-ND†	5.88	5.29	4.51
5	40	200	100	2.0	1.0	1.0	1ch NO	PS7200K-1A-ND†	5.88	5.29	4.51
5	40	120	100	14	0.5	1.0	1ch NO	PS7200R-1A-ND†	5.88	5.29	4.51
1	400	150	560	10	2	0.2	1ch NO	PS7341-1A-ND	2.50	2.25	1.92
1	400	150	560	10	2	0.2	1ch NO	PS7341L-1A-ND*	2.50	2.25	1.92
1	400	200	560	5	5	0.2	1ch NO	PS7342-1A-ND	4.40	3.96	3.38
1	600	90	560	50	2	0.2	1ch NO	PS7360-1A-ND	3.25	2.93	2.50
1	600	90	560	50	2	0.2	1ch NO	PS7360L-1A-ND*	3.25	2.93	2.50
1	200	200	560	5	12	6.5	1ch NO	PS7522-1A-ND	4.10	3.69	3.15
2	200	200	375	5	12	6.5	2ch NO	PS7522-2A-ND	6.00	5.40	4.60

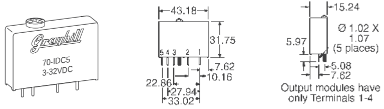
* Lead-Bent † SOP

Grayhill INC.

Input/Output Modules and Racks

9154B-ND Grayhill Engineering Catalog **$4.95**

Fig. 1 — Standard



Output modules have only Terminals 1-4

Fig. 2 — Mini

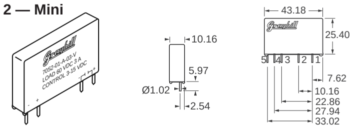


Fig. 3 — Mounting Board
(4 Pos. Board Shown)

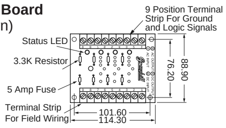

9 Position Terminal Strip For Ground and Logic Signals
Status LED
3.3K Resistor
5 Amp Fuse
Terminal Strip For Field Wiring
101.60
114.30
76.20
88.90

Fig. 4 — G5 Full Size

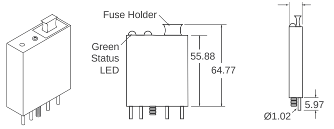


Fig. 5

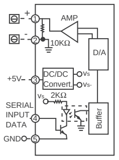


Fig. 6

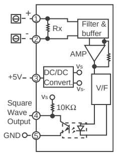
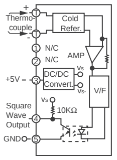


Fig. 7



Our line of pluggable input and output modules provide a low cost, versatile method for interconnecting real world analog and digital signals to data acquisition, monitoring, or control systems.

All modules provide an optically isolated barrier between sensitive microprocessor or digital logic circuits and field power devices. The case color of these modules identify their function: Digital AC Output Module = Black Case; Digital DC Output Module = Red Case; Digital AC Input Module = Yellow Case; Digital DC Input Module = White Case; Analog Output Module = Orange Case; Analog Input Module = Blue Case.

Features: • Transient protection meets the requirements of IEEE472 "Surge Withstanding Capability Test". • 4000 Vac optical isolation. ***General Characteristics:*** • **Operating Temperature Range:** -40°C to +100°C • **UL File No.:** E58632 **CSA File No.:** L38763 ***General Specifications:*** • **Operating Temperature:** 0°C to 60°C • **Short Circuit Protection:** Output signal can be shorted to ground without damaging the module ***Voltage Output Modules:*** • **Supply Voltage (Vcc) Range:** 4.5 - 5.5 Vdc • **Supply Current at 5 Vdc:** 140 mA max. • **Output Current (Sourcing):** 73G-OV5: -20mA max. at 5 Vdc, 73G-OV10: -10mA max. at 10Vdc, 73G-OV10B: -10mA max. at 10 Vdc ***Current Output Modules:*** • **Supply Voltage:** 4.5 - 5.5 Vdc • **Supply Current at 5 VDC:** 240 mA max. • **Output Current (Sourcing):** 20mA max. ***Voltage Input Modules:*** • **Supply Voltage:** 4.5 - 5.5 Vdc • **Supply Current at 5 Vdc:** 150 mA max. • **Output Frequency:** 14.4 to 72.0 KHz squarewave • **Squarewave Duty Cycle:** 40% to 60% • **Accuracy:** ±0.1% (DC Version), ±0.3% (AC Versions) ***Thermocouple Input Modules:*** • **Supply Voltage:** 4.5 - 5.5 Vdc • **Supply Current at 5 Vdc:** 150 mA max. • **Output Frequency:** 14.4 to 72.0 KHz squarewave • **Squarewave Duty Cycle:** 40% to 60% • **Accuracy, Across Range at 25°C:** ±3.0°C

Fig.	Input Circuit Vdc. Nom.	Input Circuit Range	Output Circuit Volt. Nom.	Output Circuit Range	Load Cur. (Rms)	T on Time	T off Time	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
Digital I/O Modules — Standard Size												
1	5 VDC	2.5-10	120 VAC	24-140	.030-3.5A	8.3ms	8.3ms	GH7018-ND	9.13	8.22	7.77	70-OAC5
	5 VDC	2.5-10	60 VDC	3-60	.020-3.5A	20µs	50µs	GH7019-ND	9.13	8.22	7.77	70-ODC5
	120 VAC	90-140	5 VDC	3-60	1-50mA	20ms	20ms	GH7020-ND	9.13	8.22	7.77	70-IAC5
	5 VDC	3-32 VDC	5 VDC	3-60	1-50mA	250µs	400µs	GH7021-ND	9.13	8.22	7.77	70-IDC5
Digital I/O Modules — Miniature Size												
2	5 VDC	2.5-10	120 VAC	24-140	.030-3A	8.3ms	8.3ms	GH7022-ND	9.13	8.22	7.77	70M-OAC5
	5 VDC	2.5-10	240 VAC	24-280	.030-3A	8.3ms	8.3ms	GH7023-ND	10.10	9.09	8.59	70M-OAC5A
	5 VDC	2.5-10	60 VDC	3-60	.020-3A	20µs	50µs	GH7024-ND	9.13	8.22	7.77	70M-ODC5
	15 VDC	10-18	60 VDC	3-60	.020-3A	20µs	50µs	GH7025-ND	9.13	8.22	7.77	70M-ODC15
	120 VAC	90-140	5 VDC	3-6	1-50mA	20ms	20ms	GH7026-ND	9.13	8.22	7.77	70M-IAC5
	5 VDC	3-32 VDC	5 VDC	3-6	1-50mA	200µs	400µs	GH7027-ND	9.13	8.22	7.77	70M-IDC5
Mounting Boards for Digital Modules												
3	Mounting Board for 4 Standard I/O Modules - Negative Logic Only							GH7028-ND	19.26	18.30	—	70RCK4
	Mounting Board for 4 Standard I/O Modules - Negative or Positive Logic							GH3035-ND	20.27	19.26	—	70RCK4R
	Mounting Board for 8 Standard I/O Modules - Card Edge Connector Only							GH7029-ND	38.18	36.28	—	70RCK8
	Mounting Board for 8 Standard I/O Modules - Long Latch Socket Connector							GH3044-ND	41.89	39.80	—	70RCK8-HL
	Mounting Board for 8 Mini I/O Modules - Card Edge Connector Only							GH7030-ND	41.55	39.48	—	70MRCK8-EC
	Mounting Board for 16 Standard I/O Modules - Card Edge Connector Only							GH7031-ND	61.82	58.73	—	70RCK16
	Mounting Board for 16 Standard I/O Modules - Long Latch Socket Connector							GH3045-ND	65.54	62.27	—	70RCK16-HL

(Continued)

Input/Output Modules and Racks *(Cont.)*

Fig.	Input Circuit Vdc. Nom.	Range	Output Circuit Volt. Nom.	Range	Load Cur. (Rms)	T on Time	T off Time	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
Mounting Boards for Digital Modules												
3	Mounting Board for 24 Standard I/O Modules - Card Edge Connector Only							GH3007-ND	102.70	97.57	—	70RCK24
	Mounting Board for 24 Mini I/O Modules - Card Edge Connector Only							GH3008-ND	111.82	106.23	—	70MRCK24-EC
Digital I/O Modules — G5 Full Size with Status LED												
4	5 VDC	4-6	120 VAC	24-140	.030-3.5A	8.3ms	8.3ms	GH3037-ND	10.58	9.53	9.00	70G-OAC5
	5 VDC	4-6	240 VAC	24-280	.030-3.5A	8.3ms	8.3ms	GH3038-ND	11.50	10.35	9.78	70G-OAC5A
	15 VDC	8-20	120 VAC	24-140	.030-3.5A	8.3ms	8.3ms	GH3039-ND	10.58	9.53	9.00	70G-OAC15
	5 VDC	4-6	60 VDC	3-60	.020-3.5A	20µs	50µs	GH3040-ND	10.58	9.53	9.00	70G-ODC5
	15 VDC	10-20	60 VDC	3-60	.020-3.5A	20µs	50µs	GH3041-ND	10.58	9.53	9.00	70G-ODC15
	120 VAC	0-140	5 VDC	4.5-6	1-50mA	20ms	20ms	GH3042-ND	9.62	8.66	8.18	70G-IAC5
	5 VDC	3-32	5 VDC	4.5-6	1-50mA	200µs	400µs	GH3043-ND	9.62	8.66	8.18	70G-IDC5

Fig.	Output Type	Output Range	Output Resolution	Input Type	Digi-Key Part No.	Price Each 1	5	50	Grayhill Part No.
Analog Output Modules									
5	Voltage	0-5Vdc	1.22mV	12 Bit Serial	GH3009-ND	92.71	81.58	76.95	73G-OV5
	Voltage	0-10Vdc	2.44mV	12 Bit Serial	GH3010-ND	92.71	81.58	76.95	73G-OV10
	Voltage	-10 to 10Vdc	4.88mV	12 Bit Serial	GH3011-ND	92.71	81.58	76.95	73G-OV10B
	Current	4-20mA	3.9µA	12 Bit Serial	GH3012-ND	115.88	101.98	96.19	73G-OI420
	Current	0-20mA	4.9µA	12 Bit Serial	GH3013-ND	115.88	101.98	96.19	73G-OI020

Fig.	Input Type	Input Range	Input Resolution	Output Type	Digi-Key Part No.	Price Each 1	5	50	Grayhill Part No.
Analog Input Modules									
6	Voltage	0-50mV	12.2µV	12 Bit Serial	GH3014-ND	92.71	81.58	76.95	73G-IV50M
	Voltage	0-100mV	24.4µV	12 Bit Serial	GH3015-ND	92.71	81.58	76.95	73G-IV100M
	Voltage	0-1Vdc	244.1µV	12 Bit Serial	GH3016-ND	92.71	81.58	76.95	73G-IV1
	Voltage	0-5Vdc	1.22mV	12 Bit Serial	GH3017-ND	92.71	81.58	76.95	73G-IV5
	Voltage	0-10Vdc	2.44mV	12 Bit Serial	GH3018-ND	92.71	81.58	76.95	73G-IV10
	Voltage	-5 to 5Vdc	2.44mV	12 Bit Serial	GH3019-ND	92.71	81.58	76.95	73G-IV5B
	Voltage	-10 to 10Vdc	4.88mV	12 Bit Serial	GH3020-ND	92.71	81.58	76.95	73G-IV10B
	Voltage	28-140Vac	27.34mV	12 Bit Serial	GH3021-ND	103.00	90.65	85.50	73G-IVAC120
	Voltage	28-280Vac	65.52mV	12 Bit Serial	GH3022-ND	103.00	90.65	85.50	73G-IVAC240
	Current	4-20mA	3.91µA	12 Bit Serial	GH3023-ND	92.71	81.58	76.95	73G-II420
	Current	0-5A	1.22mA	12 Bit Serial	GH3024-ND	115.88	101.98	96.19	73G-II5000
Thermocouple Input Modules									
7	J Type	0-700C	.18C	12 Bit Serial	GH3025-ND	115.88	101.98	96.19	73G-ITCJ
	K Type	-100 to 924C	.25C	12 Bit Serial	GH3026-ND	115.88	101.98	96.19	73G-ITCK
	R Type	0-960C	.23C	12 Bit Serial	GH3027-ND	115.88	101.98	96.19	73G-ITCR
	T Type	-200 to 224C	.10C	12 Bit Serial	GH3028-ND	115.88	101.98	96.19	73G-ITCT
	AD590	-188 to 150C	.08C	12 Bit Serial	GH3029-ND	92.71	81.58	76.95	73G-ITP590
	Plt. RTD	-50 to 350C	.10C	12 Bit Serial	GH3030-ND	141.62	124.63	117.55	73G-ITR100
Mounting Boards for Analog and 70G Series I/O Modules									
3	Mounting Board for 4 Analog I/O Modules Negative or Positive Logic				GH3031-ND	20.27	—	18.25	70GRCK4R
	Mounting Board for 8 Analog I/O Modules Short Latch Socket Connector				GH3032-ND	43.92	—	39.53	70GRCK8-HS
	Mounting Board for 24 Analog I/O Modules Short Latch Socket Connector				GH3033-ND	110.81	—	99.73	70GRCQ24-HS
	Mounting Board for 32 Analog I/O Modules Long Latch Socket Connector				GH3034-ND	148.65	—	133.79	70GRCP32-HL

OpenLine Dual Package I/O Modules

OpenLine modules are dual density and shrink the space required for traditional racks by 50%. The OpenLine racks accept OpenLine modules which snap into place. Each dual module is controlled independently with filtered inputs and optical isolation.

Fig. 1

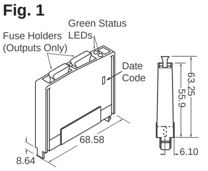


Fig. 2

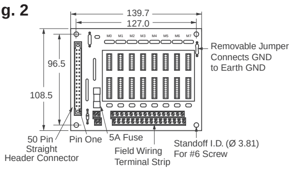


Fig.	Input Voltage	mA	Output Nom.	Range	Load Current	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
OpenLine Dual Package I/O Modules										
1	4.5-28VDC	7	120	24-140VAC	.03-2.0A/CH	GH3053-ND	20.00	18.00	17.00	70L-OAC
	4.5-28VDC	7	240	24-280VAC	.03-2.0A/CH	GH3054-ND	20.00	18.00	17.00	70L-OACA
	4.5-28VDC	7	60	3-60VDC	.03-2.0A/CH	GH3055-ND	20.00	18.00	17.00	70L-ODC
	4.5-28VDC	7	200	4-200VDC	.03-2.0A/CH	GH3056-ND	26.00	23.40	22.11	70L-ODCA
	4.5-28VDC	7	60	3-60VDC	.03-2.0A/CH	GH3057-ND†	20.00	18.00	17.00	70L-ODCB
	0-140VAC	8	5VDC	4.5-28VDC	6mA/CH	GH3058-ND	16.00	14.40	13.60	70L-IAC
	0-280VAC	6	5VDC	4.5-28VDC	6mA/CH	GH3059-ND	16.00	14.40	13.60	70L-IACA
	35-60VDC	6	5VDC	4.5-28VDC	6mA/CH	GH3060-ND	16.00	14.40	13.60	70L-IDCG
	10-32VDC	17	5VDC	4.5-28VDC	6mA/CH	GH3061-ND	16.00	14.40	13.60	70L-IDCNP
	0-32VDC	18	5VDC	4.5-28VDC	6mA/CH	GH3062-ND	16.00	14.40	13.60	70L-IDC
	0-32VDC	18	5VDC	4.5-28VDC	6mA/CH	GH3063-ND†	16.00	14.40	13.60	70L-IDCB
Mounting Boards for 70L OpenLine I/O Modules										
2	Mtg. Bd. for 8 OpenLine I/O Modules, Long Latch Conn.					GH3050-ND	42.00	39.90	—	70LRCK8-HL
	Mtg. Bd. for 16 OpenLine I/O Modules, Long Latch Conn.					GH3051-ND	63.00	59.85	—	70LRCK16-HL
	Mtg. Bd. for 24 OpenLine I/O Modules, Long Latch Conn.					GH3052-ND	100.00	95.00	—	70LRCK24-HL

† Low Leakage Outputs

OMRON®

Solid State Relays

Fig. 1 — G3NE Series

Features: • Ideal for panel mounted applications • Compact aluminum PCB and power elements used • Quick-connect #110 input terminals and #250 output connections

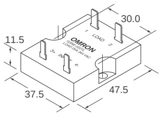


Fig. 2 — G3NA Series

Features: • Built-in varistor effectively absorbs external surges • Protective cover for greater safety is standard • Operation indicator (red LED) is standard • Zero-cross or phase control functions **Characteristic Data:** • Leakage Current: 5mA max. (at 100VAC), 10mA max. (at 200VAC) • Operating Temperature: -30° to 80°C

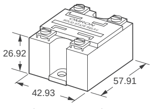


Fig. 3 — Accessories

Omron heat sinks are designed to dissipate heat buildup during normal operation. Pretapped holes allow exact placement.

Heatsink grease or a similar product should be used at the time of placement.

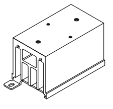
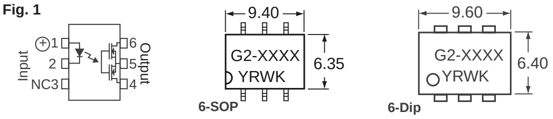


Fig.	Contact Arrange.	Input Voltage	Output Volt. (Peak)	Output Current	Package	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Zero-Cross Output										
1	SPST-NO	4-6VDC	75 to 264VAC	.1 to 10A	QC Style	Z175-ND	16.58	14.92	13.26	G3NE-210T-US-DC5
	SPST-NO	9.6-14.1VDC	75 to 264VAC	.1 to 10A	QC Style	Z176-ND	16.58	14.92	13.26	G3NE-210T-US-DC12
	SPST-NO	19.2-28.8VDC	75 to 264VAC	.1 to 10A	QC Style	Z177-ND	16.58	14.92	13.26	G3NE-210T-US-DC24
	SPST-NO	4-6VDC	75 to 264VAC	.1 to 20A	QC Style	Z178-ND	19.43	17.49	15.54	G3NE-220T-US-DC5
	SPST-NO	9.6-14.1VDC	75 to 264VAC	.1 to 20A	QC Style	Z179-ND	19.43	17.49	15.54	G3NE-220T-US-DC12
	SPST-NO	19.2-28.8VDC	75 to 264VAC	.1 to 20A	QC Style	Z180-ND	19.43	17.49	15.54	G3NE-220T-US-DC24
Zero-Cross Output										
2	SPST-NO	5-24VDC	19 to 264VAC	.1 to 5A	Screw Style	Z165-ND	18.38	16.54	14.70	G3NA-205B-DC5-24
	SPST-NO	100-120VAC	19 to 264VAC	.1 to 5A	Screw Style	Z166-ND	23.13	20.82	18.50	G3NA-205B-AC100-120
	SPST-NO	200-240VAC	19 to 264VAC	.1 to 5A	Screw Style	Z167-ND	23.13	20.82	18.50	G3NA-205B-AC200-240
	SPST-NO	4-32VDC	19 to 264VAC	.1 to 10A	Screw Style	Z918-ND	18.80	16.92	15.04	G3NA-210B-DC5-24
	SPST-NO	75-132VAC	19 to 264VAC	.1 to 10A	Screw Style	Z919-ND	25.18	22.66	20.14	G3NA-210B-AC100-120
	SPST-NO	150-264VAC	19 to 264VAC	.1 to 10A	Screw Style	Z920-ND	25.18	22.66	20.14	G3NA-210B-AC200-240
	SPST-NO	4-32VDC	19 to 264VAC	.1 to 25A	Screw Style	Z921-ND	24.45	22.01	19.56	G3NA-225B-DC5-24
	SPST-NO	75-132VAC	19 to 264VAC	.1 to 25A	Screw Style	Z922-ND	29.45	26.51	23.56	G3NA-225B-AC100-120
	SPST-NO	150-264VAC	19 to 264VAC	.1 to 25A	Screw Style	Z923-ND	31.38	28.24	25.10	G3NA-225B-AC200-240
	SPST-NO	5-24VDC	180 to 528VAC	.1 to 25A	Screw Style	Z170-ND	52.88	47.59	42.30	G3NA-425B-DC5-24
	SPST-NO	100-120VAC	180 to 528VAC	.1 to 25A	Screw Style	Z171-ND	55.23	49.71	44.18	G3NA-425B-AC100-120
	SPST-NO	5-24VDC	19 to 264VAC	.1 to 40A	Screw Style	Z172-ND	38.08	34.27	30.46	G3NA-240B-DC5-24
	SPST-NO	100-120VAC	19 to 264VAC	.1 to 40A	Screw Style	Z173-ND	42.83	38.55	34.26	G3NA-240B-AC100-240
	SPST-NO	200-240VAC	19 to 264VAC	.1 to 40A	Screw Style	Z174-ND	42.43	38.19	33.94	G3NA-240B-AC200-240
DC Output Voltage										
2	SPST-NO	5-24VDC	4 to 220VDC	.1 to 10A	Screw Style	Z168-ND	33.45	30.11	26.76	G3NA-D210B-DC5-24
	SPST-NO	100-120VAC	4 to 220VDC	.1 to 10A	Screw Style	Z169-ND	34.83	31.35	27.86	G3NA-D210B-AC100-240
Accessories										
3	Track Mount Heat Sink for 10A Relays (77 x 44mm)					Z924-ND	13.58	12.22	10.86	Y92B-N50
	Track Mount Heat Sink for 10A/25A Relays (88.90 x 77mm)					Z925-ND	21.95	19.76	17.56	Y92B-N100
	Track Mount Heat Sink for 25A Relays (100 x 104mm)					Z926-ND	29.95	26.96	23.96	Y92B-N150
	Chassis Mount Heat Sink for 10A (100 x 100mm)					Z927-ND	14.70	13.23	11.76	Y92B-A100
	Chassis Mount Heat Sink for 25A (150 x 100.5mm)					Z928-ND	20.60	18.54	16.48	Y92B-A150N

CRYDOM COMPANY

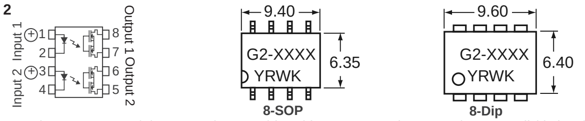
Solid State Relays

Fig. 1



6-SOP 6-Dip

Fig. 2



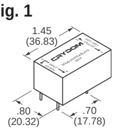
8-SOP 8-Dip

Crydom's G2 series of SSR's feature extremely low RDSon, low leakage and long lifetimes. Crydom's SSR's typically comprise an optical coupler, the output of which either drives the line directly or is used to switch a high-power device, such as a silicon-controlled rectifier (SCR) or thyristor. Whatever the drive component, it's the optical-isolation and no-moving-part aspects of the device that grant its many performance features. These features include high I/O isolation (though leakage current is a problem), long life (measured in millions of cycles), low acoustic noise, no contact bounce/arcing, mechanical ruggedness, and low drive-current requirements. They are available in tube packaging for small quantities and prototype work. Tape and reel packaging for automated insertion equipment.

Fig.	Contact	Input Volt.	Input I (mA)	Switch Volt.	Switch I (mA)	Package	Digi-Key Part No.	Tube Price Each			Crydom Part No.	Digi-Key Part No.	T&R Pricing		Crydom Part No.
								1	10	25			Size	Pricing	
G2 Series Solid State Mosfet															
1	SPST-NO	1.4V	10-30	400V	150	6-Dip	CC1300-ND	2.56	2.33	1.86	G2-1A02-TT	—	—	—	—
	SPST-NO	1.4V	10-30	400V	150	6-SOP	CC1301-ND	2.48	2.25	1.80	G2-1A02-ST	CC1301TR-ND	2,000	1215.00/M	G2-1A02-SR
	SPST-NO	1.4V	10-30	400V	150	6-Dip	CC1302-ND	2.48	2.25	1.80	G2-1A03-TT	—	—	—	—
	SPST-NO	1.4V	10-30	400V	150	6-SOP	CC1303-ND	2.48	2.25	1.80	G2-1A03-ST	CC1303TR-ND	2,000	1255.50/M	G2-1A03-SR
	SPST-NO	1.4V	10-30	400V	120	6-Dip	CC1304-ND	2.26	2.05	1.64	G2-1A05-TT	—	—	—	—
	SPST-NO	1.4V	10-30	400V	120	6-SOP	CC1305-ND	2.26	2.05	1.64	G2-1A05-ST	CC1305TR-ND	2,000	1147.50/M	G2-1A05-SR
	SPST-NO	1.4V	10-30	250V	150	6-Dip	CC1306-ND	2.48	2.25	1.80	G2-1A06-TT	—	—	—	—
	SPST-NO	1.4V	10-30	250V	150	6-SOP	CC1307-ND	2.48	2.25	1.80	G2-1A06-ST	CC1307TR-ND	2,000	1255.50/M	G2-1A06-SR
	SPST-NO	1.4V	10-30	150V	450	6-Dip	CC1308-ND	3.03	2.75	2.20	G2-1A07-TT	—	—	—	—
	SPST-NO	1.4V	10-30	150V	450	6-SOP	CC1309-ND	3.03	2.75	2.20	G2-1A07-ST	CC1309TR-ND	2,000	1525.50/M	G2-1A07-SR
	SPST-NC	1.4V	10-30	350V	330	6-Dip	CC1310-ND	3.03	2.75	2.20	G2-1B01-TT	—	—	—	—
	SPST-NC	1.4V	10-30	350V	330	6-SOP	CC1311-ND	3.03	2.75	2.20	G2-1B01-ST	CC1311TR-ND	2,000	1525.50/M	G2-1B01-SR
	SPST-NC	1.4V	10-30	250V	400	6-Dip	CC1312-ND	3.03	2.75	2.20	G2-1B02-TT	—	—	—	—
	SPST-NC	1.4V	10-30	250V	400	6-SOP	CC1313-ND	3.03	2.75	2.20	G2-1B02-ST	CC1313TR-ND	2,000	1525.50/M	G2-1B02-SR
G2 Series Multi-output Solid State															
2	DPST-NO	1.4V	15-40	15V	150	8-Dip	CC1314-ND	6.19	5.63	4.50	G2-2A03-TT	—	—	—	—
	DPST-NO	1.4V	15-40	15V	150	8-SOP	CC1315-ND	6.19	5.63	4.50	G2-2A03-ST	CC1315TR-ND	2,000	3078.00/M	G2-2A03-SR
	DPDT-O/C	1.4V	10-30	400V	110	8-Dip	CC1316-ND	5.23	4.75	3.80	G2-AB01-TT	—	—	—	—
	DPDT-O/C	1.4V	10-30	400V	110	8-SOP	CC1317-ND	5.23	4.75	3.80	G2-AB01-ST	CC1317TR-ND	2,000	2605.50/M	G2-AB01-SR
	DPDT-O/C	1.4V	10-30	250V	150	8-Dip	CC1318-ND	5.23	4.75	3.80	G2-AB02-TT	—	—	—	—
	DPDT-O/C	1.4V	10-30	250V	150	8-SOP	CC1319-ND	5.23	4.75	3.80	G2-AB02-ST	CC1319TR-ND	2,000	2605.50/M	G2-AB02-SR
	DPST-NO	1.4V	10-30	400V	110	8-Dip	CC1320-ND	4.95	4.50	3.60	G2-DA01-TT	—	—	—	—
	DPST-NO	1.4V	10-30	400V	110	8-SOP	CC1321-ND	4.95	4.50	3.60	G2-DA01-ST	CC1321TR-ND	2,000	2470.50/M	G2-DA01-SR
	DPST-NO	1.4V	10-30	400V	70	8-Dip	CC1322-ND	4.73	4.30	3.44	G2-DA02-TT	—	—	—	—
	DPST-NO	1.4V	10-30	400V	70	8-SOP	CC1323-ND	4.73	4.30	3.44	G2-DA02-ST	CC1323TR-ND	2,000	2362.50/M	G2-DA02-SR
	DPST-NO	1.4V	10-30	400V	125	8-Dip	CC1324-ND	4.95	4.50	3.60	G2-DA03-TT	—	—	—	—
	DPST-NO	1.4V	10-30	400V	125	8-SOP	CC1325-ND	4.95	4.50	3.60	G2-DA03-ST	CC1325TR-ND	2,000	2470.50/M	G2-DA03-SR
	DPST-NO	1.4V	10-30	250V	125	8-Dip	CC1326-ND	4.95	4.50	3.60	G2-DA06-TT	—	—	—	—
	DPST-NO	1.4V	10-30	250V	125	8-SOP	CC1327-ND	4.95	4.50	3.60	G2-DA06-ST	CC1327TR-ND	2,000	2470.50/M	G2-DA06-SR
	DPST-NC	1.4V	10-30	350V	120	8-Dip	CC1328-ND	5.36	4.88	3.90	G2-DB01-TT	—	—	—	—
	DPST-NC	1.4V	10-30	350V	120	8-SOP	CC1329-ND	5.36	4.88	3.90	G2-DB01-ST	CC1329TR-ND	2,000	2673.00/M	G2-DB01-SR
	DPST-NC	1.4V	10-30	250V	140	8-Dip	CC1330-ND	5.36	4.88	3.90	G2-DB02-TT	—	—	—	—
	DPST-NC	1.4V	10-30	250V	140	8-SOP	CC1331-ND	5.36	4.88	3.90	G2-DB02-ST	CC1331TR-ND	2,000	2673.00/M	G2-DB02-SR

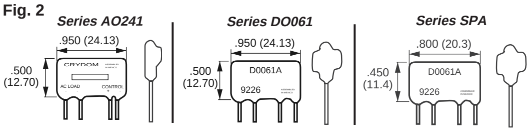
Solid State Relays

Fig. 1



These solid state relays combine small size and high ratings in a PC-board-mounted SPST-NO design. Available with (S30 types) or without snubber network (S3 types), Series 3 is an ideal replacement for power reed relays in microprocessor or computer-based logic level systems. Designed for long, reliable service in demanding industrial environments.

Fig. 2



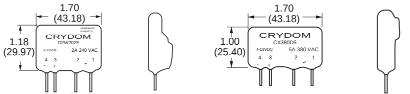
Series AO241

- SPST-NO miniature SIP solid state relays • Designed for switching highly inductive, low current loads such as solenoids. Also suitable for all loads up to 1.5A. R suffix are random turn-on versions.

Series DO061

- SPST-NO DC bipolar transistor output relays in epoxy-coated packages utilize the popular .10" grid lead spacing. DMO063 is mosfet output rated at 3A/60VDC.

Fig. 3

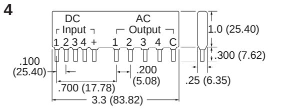


Series D2W Series CX - CMX

Series D2W • Printed Circuit Board Mounting • Features an epoxy-coated package for exceptional environmental protection. Pinouts are compatible with OAC type I/O modules.

Series CX - CMX • Ultra High Surge • Printed Circuit Board Mounting • SPST-NO relays achieve the highest power switching capability in a PC-mounted air-cooled package. Advanced features include exceptional steady state current, plus ultra-high surge ratings. New DC output SPST-NO solid state relays use MOSFET output for high switching capabilities in a PC-mount air-cooled package. Pinouts are compatible with Series 6 and OAC type I/O modules.

Fig. 4

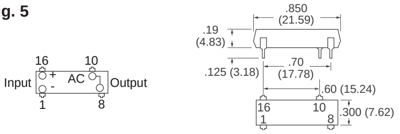


Series CTX - 4 Relay's in one Sip Pkg. — Triac Output

CTX240D3Q offers four independently controlled SSR's in one compact PCB mount package. The CTX exhibits exceptional steady-state ratings utilizing highly efficient thermal management for increased cycle life. CTX240D3Q is a zero-cross type and the CTX240D3QR is a random turn-on:

1 section on: .1 - 6.0A
2 sections on : .1 - 4.0A
3 sections on: .1 - 3.0A
4 sections on: .1 - 2.5A

Fig. 5



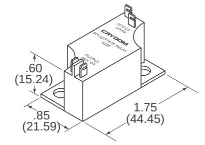
Series DPA/SDV/SDI Dip Relays — SCR Output

The series DPA is offered in your choice of voltage or current operated versions and are rated at 1A. The series SDV/SDI's are rated at 1.5A at ambient temperatures of 40˚C. Available in either zero-cross or random turn-on (R) versions and current or voltage operated (controlled) versions. SDV series are voltage controlled and SDI series are current controlled.

Fig.	Input Volt.	Oper. Volt.	Release Volt.	Output Volt.	Load Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
							1	10	25	
Series 3 — DC Input, AC Output										
1	3.5-8VDC	3.5VDC	1.0VDC	20-140VAC	.02-3	CC1132-ND	26.46	23.16	21.17	S312
	3.5-8VDC	3.5VDC	1.0VDC	20-140VAC	.02-3	CC1133-ND	25.24	22.09	20.20	S3012A
	3.5-8VDC	3.5VDC	1.0VDC	40-280VAC	.02-3	CC1134-ND	27.48	24.05	21.99	S3022A
Series AO — DC Input, AC Output — SCR Type Mini-SIP										
2	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.02-1.0	CC1049-ND	8.92	7.81	7.14	AO241
	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.02-1.0	CC1115-ND	8.92	7.81	7.14	AO241R
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.02-1.5	CC1050-ND	9.38	8.21	7.51	ASO241
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.02-1.5	CC1116-ND	9.38	8.21	7.51	AS0241R
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.06-2.0	CC1336-ND *NEW!*	11.28	9.87	9.03	ASO242
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.06-2.0	CC1337-ND *NEW!*	11.28	9.87	9.03	ASO242R
Series DO061 — DC Input, DC Output — Bipolar Type Mini-SIP										
2	3-9VDC	3.0VDC	1.0VDC	3-60VDC	.02-1.0	CC1060-ND	8.48	7.42	6.79	DO061A
	1.7-9VDC	1.7VDC	0.8VDC	3-60VDC	.02-1.0	CC1061-ND	8.48	7.42	6.79	DO061B
	3-10VDC	3.0VDC	1.0VDC	0-60VDC	0-3A	CC1139-ND	16.52	14.46	13.22	DMO063
Series SPA — SIP Relays-SCR Output										
2	10-35mA	10mA	1mA	20-140VAC	.025-1.0VAC	CC1338-ND *NEW!*	5.34	4.68	4.28	SPA4191
	10-35mA	10mA	1mA	20-280VAC	.025-1.0VAC	CC1339-ND *NEW!*	6.66	5.83	5.33	SPA6191
Series D2W — DC Input, AC Output — Triac Type SIP										
3	3-32VDC	3.0VDC	1.0VDC	24-280VAC	.06-2.0	CC1069-ND	9.16	8.02	7.33	D2W202F
	3-32VDC	3.0VDC	1.0VDC	24-280VAC	.06-3.0	CC1118-ND	9.70	8.49	7.76	D2W203F
	3-32VDC	3.0VDC	1.0VDC	24-280VAC	.06-3.5	CC1062-ND	10.28	9.00	8.23	D2W203F-11

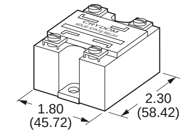
Fig.	Input Volt.	Oper. Volt.	Release Volt.	Output Volt.	Load Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
							1	10	25	
Series CX — DC or AC Input, DC or AC Output — SCR Type SIP										
3	3-15VDC	3.0VDC	1.0VDC	12-280VAC	.06-5.0	CC1063-ND	11.38	9.96	9.11	CX240D5
	15-32VDC	15VDC	1.0VDC	12-280VAC	.06-5.0	CC1064-ND	11.08	9.70	8.87	CXE240D5
	3-15VDC	3.0VDC	1.0VDC	12-280VAC	.06-5.0	CC1119-ND	14.10	12.34	11.28	CX240D5R
	4-13VDC	4.0VDC	1.0VDC	48-530VAC	.06-5.0	CC1120-ND	14.52	12.71	11.62	CX380D5
	3-10VDC	3.0VDC	1.0VDC	0-100VDC	0-6.0A	CC1124-ND	31.26	27.36	25.01	CMX100D6
	3-10VDC	3.0VDC	1.0VDC	0-60VDC	0-10A	CC1125-ND	31.26	27.36	25.01	CMX60D10
	4-13VDC	4.0VDC	1.0VDC	48-660VAC	.06-5.0	CC1065-ND	15.96	13.97	12.77	CX480D5
	15-32VDC	15VDC	1.0VDC	48-660VAC	.06-5.0	CC1066-ND	15.96	13.97	12.77	CXE480D5
	90-140VAC	90VAC	10.0VAC	12-280VAC	.06-5.0	CC1332-ND *NEW!*	12.74	11.15	10.20	CX240A5
	15-32VDC	15VDC	1.0VDC	12-280VAC	.06-5.0	CC1333-ND *NEW!*	12.74	11.15	10.20	CXE240D5
Series CTX - 4 Relays In One Sip Pkg. — Triac Output										
4	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.1-6.0A	CC1140-ND	41.96	36.72	33.57	CTX240D3Q
	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.1-6.0A	CC1141-ND	45.44	39.76	36.36	CTX240D3QR
Series DPA/SDV/SDI Dip Relays — SCR Output										
5	10-50mA	10mA	1.0mA	20-140VAC	.01-1.0A	CC1153-ND	9.00	7.88	7.20	DPA4111
	3.5-10VDC	3.5VDC	1.0VDC	20-140VAC	.01-1.0A	CC1154-ND	9.00	7.88	7.20	DPA4119
	10-50mA	10mA	1.0mA	20-280VAC	.01-1.0A	CC1155-ND	9.00	7.88	7.20	DPA6111
	3.5-10VDC	3.5VDC	1.0VDC	20-280VAC	.01-1.0A	CC1156-ND	9.00	7.88	7.20	DPA6119
	3.5-10VDC	3.5VDC	1.0VDC	12-280VAC	.01-1.5A	CC1157-ND	9.20	8.05	7.36	SDV2415
	3.5-10VDC	3.5VDC	1.0VDC	12-280VAC	.01-1.5A	CC1158-ND	9.00	7.88	7.20	SDV2415R
	10-50mA	10mA	1.0mA	12-280VAC	.01-1.5A	CC1159-ND	9.00	7.88	7.20	SDI2415
	10-50mA	10mA	1.0mA	12-280VAC	.01-1.5A	CC1160-ND	9.00	7.88	7.20	SDI2415R

Fig. 1



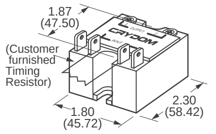
Relays combine small size and high ratings in a package designed for easy heat sink or panel mounting. Standard .187 push-on terminals assure quick connection and are arranged to provide maximum isolation between signal and power circuits. Model S228C is a snubberless design for applications that require low off-state leakage.

Fig. 2



Series PCV Analog Power Controller
The Series PCV Analog Input Power Controllers are 0-100% variable power controllers for 120 or 240 VAC loads which vary with an analog input of 2 to 10 Volts DC. The input and output are proportional by integrating a complete phase fired logic system and a solid state relay in the same package. Applications include heaters and lighting, motors and feeders, etc.

Fig. 3

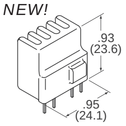


Typical Turn-On Delay For Various Timing Resistances

Resistor	Time (DSD)	Time (DLD)
0 (Short)	0.10 sec.	1.6 sec.
10KΩ	0.19 sec.	3.1 sec.
100KΩ	0.94 sec.	15 sec.
470KΩ	4.0 sec.	64 sec.
1.0MΩ	8.3 sec.	133 sec.

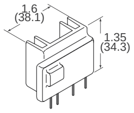
Series DSD, DLD Time Delay Relay
These Delay-On time delay relays offer customers to externally adjust their delay time by selecting the value of the external customer supplied resistor. DSD are short time delays and DLD are longer time delay durations. Timing resistors should be 1/4 watt or higher.

Fig. 4 *NEW!*



PF
Series

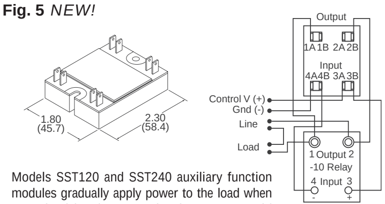
PowerFin™ series delivers the highest ratings of any single in-line package (SIP). The integral heat sink design can operate at 25 amps RMS in forced air at 85°C case temp. With natural convection in free air, it rates 10 amps RMS at 25°C ambient.



ASPF
Series

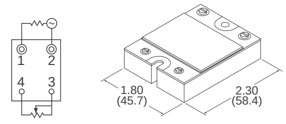
ASPF SSR incorporates the PowerFin™ design with an integral heat sink on the compact Mini-SIP package. Rated at 3.0 AMPS up to 45°C, this SPST-NO AC output SSR is for applications where precise electrical power control is essential. Zero voltage or random switching (R suffix) versions are offered.

Fig. 5 *NEW!*



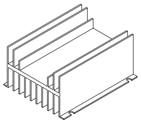
Models SST120 and SST240 auxiliary function modules gradually apply power to the load when energized by the control voltage. Part sold complete with soft-start module and relay.

Fig. 6 *NEW!*



RPC series proportional controllers provide a cost effective method of controlling power in many different applications such as heaters, universal motors or incandescent lamps. A customer provided potentiometer is all that is required for control.

Fig. 7



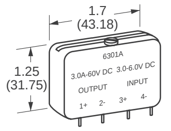
Heatsinks with pre-tapped holes for SSR packages.

Fig.	Input Volt.	Operate Volt.	Release Volt.	Output Volt.	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series 2 — DC Input, AC Output										
1	3.5-8VDC	3.5VDC	1.0VDC	20-140VAC	.02-8	CC1129-ND	31.94	27.95	25.56	S218
	3.5-8VDC	3.5VDC	1.0VDC	40-280VAC	.02-8	CC1130-ND	33.62	29.42	26.90	S228
	3.5-8VDC	3.5VDC	1.0VDC	40-280VAC	.02-8	CC1131-ND	28.26	24.73	22.61	S228C
Series PCV Analog Power Controller										
2	2-10VDC	2.0VDC	1.0VDC	100-240VAC	.15-15A	CC1161-ND	82.10	71.84	65.68	10PCV2415
	2-10VDC	2.0VDC	1.0VDC	100-240VAC	.15-25A	CC1162-ND	90.94	79.58	72.76	10PCV2425
	2-10VDC	2.0VDC	1.0VDC	100-240VAC	.15-40A	CC1163-ND	107.36	93.94	85.89	10PCV2440
Series DSD, DLD Time Delay Relay										
3	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-10A	CC1174-ND	41.66	36.46	33.33	DSD2410
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-25A	CC1175-ND	42.98	37.61	34.39	DSD2425
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-50A	CC1176-ND	45.34	39.68	36.28	DSD2450
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-10A	CC1177-ND	41.66	36.46	33.33	DLD2410
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-25A	CC1178-ND	42.98	37.61	34.39	DLD2425
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-50A	CC1179-ND	45.34	39.68	36.28	DLD2450
NEW! Series PF, ASPF – PowerFin™ NEW!										
4	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.1-3A	CC1334-ND	10.84	9.49	8.68	ASPF240D3
	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.1-3A	CC1335-ND	10.84	9.49	8.68	ASPF240D3R
	90-140VAC	90.0VAC	10.0VAC	12-280VAC	.06-10	CC1340-ND	22.52	19.71	18.02	PF240A25
	3-15VDC	3.0VDC	1.0VDC	12-280VAC	.06-10	CC1341-ND	20.80	18.20	16.64	PF240D25
	15-32VDC	15.0VDC	1.0VDC	12-280VAC	.06-10	CC1342-ND	20.80	18.20	16.64	PFE240D25

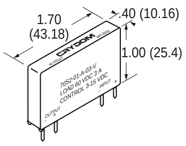
Fig.	Resistor (Ohms)	Operate Volt.	Release Volt.	Output Volt.	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
NEW! Series SST – Soft-Start Modules NEW!										
5	3.5-10VDC	3.5VDC	1.0VDC	90-140VAC	.04-10	CC1343-ND	65.20	57.05	52.16	10SST240
	3.5-10VDC	3.5VDC	1.0VDC	90-140VAC	.04-25	CC1344-ND	65.62	57.42	52.50	25SST120
	3.5-10VDC	3.5VDC	1.0VDC	90-140VAC	.04-50	CC1345-ND	68.52	59.96	54.82	40SST120
NEW! Series RPC – Potentiometer Power Control NEW!										
6	150K (1W)	—	—	90-130VAC	15	CC1346-ND	61.68	53.97	49.35	RPC1215
	150K (1W)	—	—	90-130VAC	25	CC1347-ND	79.78	69.81	63.83	RPC1225
	150K (1W)	—	—	90-130VAC	40	CC1348-ND	108.84	95.24	87.08	RPC1240
	1M (1/2W)	—	—	200-240VAC	15	CC1349-ND	67.36	58.94	53.89	RPC2415
	1M (1/2W)	—	—	200-240VAC	25	CC1350-ND	83.48	73.05	66.79	RPC2425
	1M (1/2W)	—	—	200-240VAC	40	CC1351-ND	116.10	101.59	92.88	RPC2440
Solid State Relay Accessories										
7	Heatsink for Relays up to 10A (3.3 "x 2.06") (8.38cm x 5.23cm)					CC1113-ND	9.14	8.00	7.32	HS-1
	Heatsink for Relays up to 25A (3.3" x 4.1") (8.38cm x 10.41cm)					CC1207-ND	13.42	11.75	10.74	HS-2
	Heatsink for Relays up to 75A (5.5" x 4.8") (13.97cm x 12.19cm)					CC1208-ND	13.42	11.75	10.74	HE-54
	Heatsink for Relays up to 90A (6.0" x 6.0") (15.24cm x 15.24cm)					CC1114-ND	93.66	81.96	74.93	HE-90
—	Protective Cover for Series 1 Relays					CC1070-ND	2.94	2.58	2.36	KS-100
	Protective Cover for 53TP Series Relays					CC1171-ND	4.78	4.19	3.83	KS-300
	EMI Filters for 1 Phase Relay to Reduce Gen. Noise					CC1172-ND	10.10	8.84	8.08	1F25
	EMI Filters for 3 Phase Relay to Reduce Gen. Noise					CC1173-ND	22.88	20.02	18.31	3F20

Fig. 8

Standard



Mini



Series IAC, IDC, OAC, ODC
• Opto-Isolated • Solid state I/O switching modules deliver an electrically clean, photo-isolated, noise free "output" interface from logic level control systems to external loads such as motors, valves, solenoids, etc. DMP versions are epoxy conformal coated for fast heat transfer.

Series 6
Series 6 buffered output modules contain additional internal amplification to reduce drive requirements to a level suitable for the Mos devices used in many microprocessor systems. Models are available with either inverting or no-inverting inputs, for 5 and 15 volt logic.

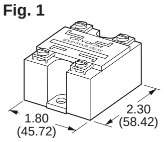
Fig.	Input Volt.	Input I (mA)	Output Current	@	Output Voltage	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
I/O Modules — 5VDC System Voltage												
8	90-140VAC	7	.1-100 mA		.4-30VDC	20ms	20ms	CC1200-ND	12.70	11.12	10.16	IAC-5
	180-280VAC	5	.1-100 mA		.4-30VDC	20ms	20ms	CC1201-ND	12.70	11.12	10.16	IAC-5A
	10-36VDC	8	.1-100 mA		.4-30VDC	5ms	5ms	CC1202-ND	11.42	10.00	9.14	IDC-5
	3-6VDC	19	.02-3A		12-140VAC	.5 cycle	.5 cycle	CC1203-ND	11.42	10.00	9.14	OAC-5
	3-6VDC	19	.02-3A		24-280VAC	.5 cycle	.5 cycle	CC1204-ND	12.70	11.12	10.16	OAC-5A
	3-6VDC	14	.02-3A		5-60VDC	.3 ms	.3 ms	CC1205-ND	11.42	10.00	9.14	ODC-5
	3-32VDC	13	.1-100mA		.4-30VDC	1ms	1ms	CC1244-ND	16.92	15.77	14.67	IDC-5B
	10-36VDC	4	.1-100mA		.4-30VDC	5ms	5ms	CC1234-ND	12.40	10.85	9.92	DMP6101A
	90-140VDC	6	.1-100mA		.4-30VDC	20ms	20ms	CC1235-ND	12.62	11.05	10.10	DMP6201A
	180-280VDC	4	.1-100mA		.4-30VDC	20ms	20ms	CC1236-ND	13.62	11.92	10.90	DMP6202A
	3-6VDC	3	.02-3A		5-60VDC	.5ms	.5ms	CC1237-ND	12.74	11.15	10.20	DMP6301A
	3-6VDC	4	.02-3A		24-280VAC	.5 cycle	.5 cycle	CC1238-ND	13.62	11.92	10.90	DMP6402A
I/O Modules — 15VDC System Voltage												
8	90-140VAC	7	.1-100mA		.4-30VDC	20ms	20ms	CC1210-ND	11.42	10.00	9.14	IAC-15
	10-36VDC	8	.1-100mA		.4-30VDC	5ms	5ms	CC1211-ND	11.42	10.00	9.14	IDC-15
	9-18VDC	20	.02-3A		12-140VAC	.5 cycle	.5 cycle	CC1212-ND	11.42	10.00	9.14	OAC-15
	9-18VDC	14	.02-3A		5-60VDC	.3ms	.3ms	CC1213-ND	11.42	10.00	9.14	ODC-15
I/O Modules — 24VDC System Voltage												
8	90-140VAC	7	.1-100mA		4-30VDC	20ms	20ms	CC1214-ND	12.70	11.12	10.16	IAC-24
	10-36VDC	8	.1-100mA		.4-30VDC	5ms	5ms	CC1215-ND	11.42	10.00	9.14	IDC-24
	18-28VDC	10	.02-3A		12-140VAC	.5 cycle	.5 cycle	CC1216-ND	11.42	10.00	9.14	OAC-24
	18-28VDC	10	.02-3A		5-60VDC	.3ms	.3ms	CC1217-ND	11.42	10.00	9.14	ODC-24

Fig.	Input Volt.	Input I (mA)	Output Current	@	Output Voltage	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series 6 — AC & DC Buffered Modules												
8	0-.8VDC	100µA	.02-3A		3-60VDC	100µS	100µS	CC1239-ND	20.60	18.03	16.48	6311
	2.4-6VDC	250µA	.02-3.5A		3-60VDC	100µS	100µS	CC1240-ND	21.06	18.43	16.85	6321
	0-.8VDC	100µA	.02-3A		12-140VAC	.5 cycle	.5 cycle	CC1241-ND	18.14	15.88	14.52	6411
	0-.8VDC	100µA	.02-3.5A		24-280VAC	.5 cycle	.5 cycle	CC1242-ND	21.16	18.52	16.93	6412
	2.4-6VDC	250µA	.02-3.5A		12-140VAC	.5 cycle	.5 cycle	CC1243-ND	18.82	16.47	15.06	6421
Mounting Board for 4-pos. Std. I/O Modules (Screw Term.)								CC1206-ND	38.12	33.36	30.50	PB-4
Mounting Board for 4-pos. Std. I/O Modules (Screw Term.)								CC1218-ND	41.62	36.42	33.30	PB-4R
Mounting Board for 8-pos. Std. I/O Modules (Card Edge Conn.)								CC1219-ND	74.46	65.16	59.57	PB-8
Mounting Board for 16-pos. Std. I/O Modules (Screw Term.)								CC1220-ND	172.62	151.05	138.10	PB-16T
Mounting Board for 16-pos. Std. I/O Modules (Card Edge Conn.)								CC1221-ND	136.16	119.14	108.93	PB-16A
Mini I/O Module — 5VDC System Voltage												
8	90-140VAC	7	.1-100mA		.4-30VDC	20ms	20ms	CC1222-ND	11.42	10.00	9.14	MIAC-5
	10-36VDC	8	.1-100mA		.4-30VDC	5ms	5ms	CC1223-ND	11.42	10.00	9.14	MIDC-5
	3-6VDC	19	.02-3A		12-140VAC	.5 cycle	.5 cycle	CC1224-ND	11.42	10.00	9.14	MOAC-5
	3-6VDC	19	.02-3A		24-280VAC	.5 cycle	.5 cycle	CC1225-ND	12.70	11.12	10.16	MOAC-5A
	3-6VDC	14	.02-3A		5-60VDC	.3ms	.3ms	CC1226-ND	11.42	10.00	9.14	MODC-5
Mini I/O Module — 24VDC System Voltage												
8	10-36VDC	8	.1-100mA		.4-30VDC	5ms	5ms	CC1227-ND	11.42	10.00	9.14	MIDC-24
	18-28VDC	15	.02-3A		12-140VAC	.5 cycle	.5 cycle	CC1228-ND	11.42	10.00	9.14	MOAC-24
	18-28VDC	10	.02-3A		5-60VDC	.3ms	.3ms	CC1229-ND	11.42	10.00	9.14	MODC-24
Mounting Board for 4-pos. Mini I/O Modules (Screw Term.)								CC1230-ND	38.12	33.36	30.50	MS-4
Mounting Board for 8-pos. Mini I/O Modules (Card Edge Conn.)								CC1231-ND	74.46	65.16	59.57	MS-8H
Mounting Board for 16-pos. Mini I/O Modules (Card Edge Conn.)								CC1232-ND	136.16	119.14	108.93	MS-16H
Mounting Board for 24-pos. Mini I/O Modules (Card Edge Conn.)								CC1233-ND	230.30	201.52	184.24	MS-24H

CRYDOM COMPANY

Solid State Relays

Fig. 1



Series 1, HD, HA: • These SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch, available in either zero voltage turn-on or random turn-on, phase controlled models. (-10 versions are phase controlled. Crydom part numbers ending in "B" are normally closed versions.)

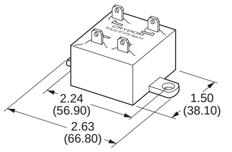
Series T: • Industry Standard Package • Snubbers are included for high DV/DT applications and inductive loads, together with zero-voltage switching to reduce inrush currents and electrical noise.

Series H12: • High voltage relays use IC driven circuits for switching loads up to 660 VAC with 1200 Volts blocking standard.

Series 1-DC: • Low On-State Resistance • Paralleling Capability for Higher Currents • DC output relays feature MOSFET technology for low on-state resistance, assuring easy paralleling and switching capabilities to 40 amps at 100 VDC.

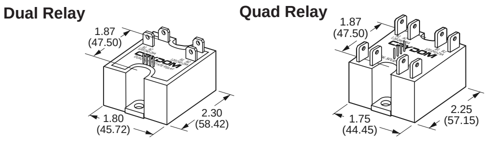
Series CS: • Low Leakage • SCR AC switch output models feature low off-state leakage (snubberless), zero-voltage switching and have a broadened operating range at both 120V/240VAC line voltages.

Fig. 2



Series EZ: • Low Leakage • Quick Connect Terminals • Offers a low profile package with the convenience of quick connect terminals • 4000 Vrms opto-isolation and low off-state leakage are standard.

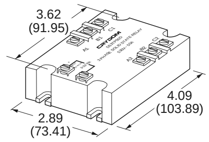
Fig. 3


Dual Relay

Quad Relay

Two (Dual) or four (Quad) totally independent AC output relays come in a single standard panel-mount package. Utilizing an AC switch output with internal snubber, relays provide greater protection against false triggering.

Fig. 4



• SCR Output • AC or DC Control • LED Status Indicator Three-phase solid state relays switch up to 530 Vrms directly to loads such as motors, transformers, heating elements, etc. Models are available with either AC or DC input (coil). For heatsink use part number CC1114-ND.

Fig.	Input Volt.	Operate Volt.	Release Volt.	Output Volt.	Load Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
							1	10	25	
Series 1 — DC Input, AC Output — SCR Type										
1	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.04-2.5	CC1000-ND	21.76	19.04	17.41	D1202
	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.04-10	CC1001-ND	32.16	28.14	25.73	D1210
	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.04-25	CC1002-ND	32.62	28.55	26.10	D1225
	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.04-40	CC1003-ND	35.52	31.08	28.42	D1240
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-2.5	CC1004-ND	21.90	19.17	17.52	D2402
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-10	CC1005-ND	32.94	28.83	26.36	D2410
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-25	CC1006-ND	33.28	29.12	26.63	D2425
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-40	CC1071-ND	37.64	32.94	30.12	D2440
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-50	CC1007-ND	38.86	34.01	31.09	D2450
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-75	CC1008-ND	62.08	54.32	49.67	D2475
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-90	CC1067-ND	68.34	59.80	54.68	D2490
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-110	CC1142-ND	66.94	58.58	53.56	D24110
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-125	CC1143-ND	78.62	68.80	62.90	D24125
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-25	CC1072-ND	41.32	36.16	33.06	D4825
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-40	CC1073-ND	44.00	38.50	35.20	D4840
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-50	CC1074-ND	45.90	40.17	36.72	D4850
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-75	CC1075-ND	67.12	58.73	53.70	D4875
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-90	CC1076-ND	74.14	64.88	59.32	D4890
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-10	CC1088-ND	36.10	31.59	28.88	D2410B
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-25	CC1089-ND	36.44	31.89	29.16	D2425B
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-40	CC1090-ND	40.80	35.70	32.64	D2440B
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-75	CC1091-ND	65.24	57.09	52.20	D2475B
	3.5-26VDC	3.5VDC	1.0VDC	24-140VAC	.04-10	CC1077-ND	32.16	28.14	25.73	D1210-10
	3.5-26VDC	3.5VDC	1.0VDC	24-140VAC	.04-40	CC1078-ND	35.52	31.08	28.42	D1240-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-10	CC1079-ND	32.94	28.83	26.36	D2410-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-25	CC1080-ND	33.28	29.12	26.63	D2425-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-40	CC1081-ND	37.64	32.94	30.12	D2440-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-50	CC1082-ND	38.86	34.01	31.09	D2450-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-90	CC1083-ND	68.34	59.80	54.68	D2490-10
	3.5-26VDC	3.5VDC	1.0VDC	80-530VAC	.04-25	CC1084-ND	41.32	36.16	33.06	D4825-10
	3.5-26VDC	3.5VDC	1.0VDC	80-530VAC	.04-40	CC1085-ND	44.00	38.50	35.20	D4840-10
	3.5-26VDC	3.5VDC	1.0VDC	80-530VAC	.04-75	CC1086-ND	67.12	58.73	53.70	D4875-10
	3.5-26VDC	3.5VDC	1.0VDC	80-530VAC	.04-90	CC1087-ND	74.14	64.88	59.32	D4890-10
Series 1 — AC Input, AC Output — SCR Type										
1	90-280VAC	90VAC	10VAC	24-140VAC	.04-25	CC1011-ND	33.82	29.60	27.06	A1225
	90-280VAC	90VAC	10VAC	24-140VAC	.04-40	CC1012-ND	37.42	32.75	29.94	A1240
	90-280VAC	90VAC	10VAC	48-280VAC	.04-10	CC1013-ND	34.84	30.49	27.88	A2410
	90-280VAC	90VAC	10VAC	48-280VAC	.04-25	CC1014-ND	35.52	31.08	28.42	A2425
	90-280VAC	90VAC	10VAC	48-280VAC	.04-50	CC1015-ND	40.22	35.20	32.18	A2450
	18-36VAC	18VAC	2VAC	48-280VAC	.04-50	CC1068-ND	38.20	33.43	30.56	A2450-E
	90-280VAC	90VAC	10VAC	48-280VAC	.04-75	CC1016-ND	64.78	56.69	51.83	A2475
	90-280VAC	90VAC	10VAC	48-280VAC	.04-110	CC1144-ND	78.24	68.46	62.60	A24110
	90-280VAC	90VAC	10VAC	48-280VAC	.04-125	CC1145-ND	81.64	71.44	65.32	A24125
	90-280VAC	90VAC	10VAC	80-530VAC	.04-25	CC1092-ND	47.12	41.23	37.70	A4825
	90-280VAC	90VAC	10VAC	80-530VAC	.04-40	CC1093-ND	51.82	45.35	41.46	A4840
	90-280VAC	90VAC	10VAC	80-530VAC	.04-50	CC1094-ND	53.84	47.11	43.08	A4850
	90-280VAC	90VAC	10VAC	80-530VAC	.04-90	CC1095-ND	77.72	68.01	62.18	A4890
Series HD — DC Input, AC Output — SCR Type										
1	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-12	CC1017-ND	40.08	35.07	32.07	HD4812
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-25	CC1018-ND	42.44	37.14	33.96	HD4825
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-50	CC1019-ND	47.12	41.23	37.70	HD4850
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-50	CC1096-ND	50.28	44.00	40.23	HD4850-10
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-75	CC1020-ND	75.26	65.86	60.21	HD4875
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-90	CC1021-ND	76.38	66.84	61.11	HD4890
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-110	CC1146-ND	82.90	72.54	66.32	HD48110
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-125	CC1147-ND	87.76	76.79	70.21	HD48125
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-25	CC1097-ND	44.12	38.61	35.30	HD6025
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-50	CC1098-ND	49.48	43.30	39.59	HD6050
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-90	CC1099-ND	80.18	70.16	64.15	HD6090
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-125	CC1100-ND	91.28	79.87	73.03	HD60125
Series HA — AC Input, AC Output — SCR Type										
1	90-280VAC	90VAC	10VAC	80-530VAC	.04-25	CC1022-ND	48.46	42.41	38.77	HA4825
	90-280VAC	90VAC	10VAC	80-530VAC	.04-50	CC1023-ND	55.38	48.46	44.31	HA4850
	90-280VAC	90VAC	10VAC	80-530VAC	.04-75	CC1024-ND	76.62	67.05	61.30	HA4875
1	90-280VAC	90VAC	10VAC	80-530VAC	.04-90	CC1025-ND	79.96	69.97	63.97	HA4890
	90-280VAC	90VAC	10VAC	80-530VAC	.04-110	CC1148-ND	87.02	76.15	69.62	HA48110
	90-280VAC	90VAC	10VAC	80-530VAC	.04-125	CC1149-ND	91.92	80.43	73.54	HA48125
	90-280VAC	90VAC	10VAC	48-660VAC	.04-25	CC1101-ND	46.02	40.27	36.82	HA6025
	90-280VAC	90VAC	10VAC	48-660VAC	.04-50	CC1102-ND	51.46	45.03	41.17	HA6050
	90-280VAC	90VAC	10VAC	48-660VAC	.04-90	CC1103-ND	83.38	72.96	66.71	HA6090
	90-280VAC	90VAC	10VAC	48-660VAC	.04-125	CC1104-ND	93.18	81.54	74.55	HA60125
Series H12 — DC Input, AC Output — SCR Type										
1	4-32VDC	4.0VDC	1.0VDC	48-660VAC	.04-50	CC1032-ND	47.64	41.69	38.12	H12WD4850
	4-32VDC	4.0VDC	1.0VDC	48-660VAC	.04-90	CC1033-ND	58.52	51.21	46.82	H12WD4890
	4-32VDC	4.0VDC	1.0VDC	48-530VAC	.04-50	CC1105-ND	44.94	39.33	35.96	H12D4850
	4-32VDC	4.0VDC	1.0VDC	48-530VAC	.04-90	CC1106-ND	55.22	48.32	44.18	H12D4890
Series H12 — AC Input, AC Output — SCR Type										
1	90-140VAC	90VAC	10VAC	48-660VAC	.04-50	CC1034-ND	47.52	41.58	38.02	H12CA4850
	90-140VAC	90VAC	10VAC	48-660VAC	.04-90	CC1035-ND	62.70	54.87	50.16	H12CA4890
Series T — DC Input, AC Output — Triac Type										
1	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.05-10	CC1026-ND	32.14	28.13	25.72	TD1210
	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.05-25	CC1027-ND	32.62	28.55	26.10	TD1225
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.05-10	CC1028-ND	32.94	28.83	26.36	TD2410
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.05-25	CC1029-ND	33.28	29.12	26.63	TD2425
Series T — AC Input, AC Output — Triac Type										
1	90-280VAC	90VAC	10VAC	24-140VAC	.05-10	CC1107-ND	33.18	29.04	26.55	TA1210
	90-280VAC	90VAC	10VAC	24-140VAC	.05-25	CC1030-ND	33.82	29.60	27.06	TA1225
	90-280VAC	90VAC	10VAC	48-280VAC	.05-10	CC1108-ND	34.84	30.49	27.88	TA2410
	90-280VAC	90VAC	10VAC	48-280VAC	.05-25	CC1031-ND	35.52	31.08	28.42	TA2425
Series 1 DC — DC Input, DC Output — MOSFET Type										
1	3.5-32VDC	3.5VDC	1.0VDC	0-100VDC	0-7	CC1036-ND	47.58	41.64	38.07	D1D07
	3.5-32VDC	3.5VDC	1.0VDC	0-100VDC	0-12	CC1037-ND	52.58	46.01	42.07	D1D12
	3.5-32VDC	3.5VDC	1.0VDC	0-100VDC	0-20	CC1038-ND	57.62	50.42	46.10	D1D20
	3.5-32VDC	3.5VDC	1.0VDC	0-100VDC	0-40	CC1039-ND	71.58	62.64	57.27	D1D40
	3.5-32VDC	3.5VDC	1.0VDC	0-200VDC	0-7	CC1040-ND	54.94	48.08	43.96	D2D07
	3.5-32VDC	3.5VDC	1.0VDC	0-200VDC	0-12	CC1041-ND	63.32	55.41	50.66	D2D12
	3.5-32VDC	3.5VDC	1.0VDC	0-400VDC	0-7	CC1042-ND	64.54	56.48	51.64	D4D07
	3.5-32VDC	3.5VDC	1.0VDC	0-400VDC	0-12	CC1109-ND	86.98	76.11	69.59	D4D12
Series CS — DC Input, AC Output — SCR Type										
1	3.5-15VDC	3.5VDC	1.0VDC	24-280VAC	.1-10	CC1043-ND	26.48	23.17	21.19	CSD2410
	3.5-15VDC	3.5VDC	1.0VDC	24-280VAC	.1-25	CC1044-ND	32.40	28.35	25.92	CSD2425
	3.5-15VDC	3.5VDC	1.0VDC	24-280VAC	.1-50	CC1045-ND	38.08	33.32	30.47	CSD2450
	15-32VDC	15VDC	1.0VDC	24-280VAC	.1-10	CC1110-ND	26.48	23.17	21.19	CSE2410
	15-32VDC	15VDC	1.0VDC	24-280VAC	.1-25	CC1111-ND	32.40	28.35	25.92	CSE2425
	15-32VDC	15VDC	1.0VDC	24-280VAC	.1-50	CC1112-ND	38.08	33.32	30.47	CSE2450
Series DC60 — DC or AC Input, DC Output — Bipolar Type										
1	3-32VDC	3.0VDC	1.0VDC	3-60VDC	.02-3	CC1126-ND	14.30	12.52	11.44	DC60S3
	3-32VDC	3.0VDC	1.0VDC	3-60VDC	.02-5	CC1127-ND	22.44	19.64	17.96	DC60S5
	3-32VDC	3.0VDC	1.0VDC	3-60VDC	.02-7	CC1128-ND	28.02	24.52	22.42	DC60S7
	90-280VAC	90VAC	10VAC	3-60VDC	.02-3A	CC1150-ND	16.52	14.46	13.22	DC60SA3
	90-280VAC	90VAC	10VAC	3-60VDC	.02-5A	CC1151-ND	24.68	21.60	19.75	DC60SA5
	90-280VAC	90VAC	10VAC	3-60VDC	.02-7A	CC1152-ND	30.26	26.48	24.21	DC60SA7
Series EZ — DC Input, AC Output — SCR Type										
2	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.06-12	CC1047-ND	17.20	15.05	13.76	EZ240D12
	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.06-18	CC1048-ND	22.10	19.34	17.68	EZ240D18
Dual — DC Input, AC Output — SCR Type										
3	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.05-25	CC1121-ND	59.86	52.38	47.89	D2425D
	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.05-40	CC1122-ND	67.78	59.31	54.23	D2440D
Quad — DC Input, AC Output — SCR Type										
3	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.05-20	CC1123-ND	94.48	82.67	75.59	TD2420Q
Series 53TP — DC or AC Input — SCR Type (for 3 Phase applications)										
4	3-32VDC	3.0VDC	1.0VDC	48-530VAC	.05-25	CC1135-ND	130.10	113.84	104.08	D53TP25D
	3-32VDC	3.0VDC	1.0VDC	48-530VAC	.05-50	CC1136-ND	142.38	124.59	113.91	D53TP50D
	90-280VAC	90VAC	10VAC	48-530VAC	.05-25	CC1137-ND	135.68	118.72	108.55	A53TP25D
	90-280VAC	90VAC	10VAC	48-530VAC	.05-50	CC1138-ND	147.96	129.47	118.37	A53PT50D

General Cable CAROL BRAND Hook-Up Wire

Conductor: • Fully annealed tinned copper per ASTM B-33. Insulation: • Premium grade color coded PVC • Temperature range: -40°C to +80°C • Voltage Rating: 300 volts • 0.016 (0.41mm) Nom. Insulation Thickness. Industry Approvals: • **UL Style 1007** • **CSA TR-64** • Passes UL VW-1 Vertical Flame Test • OSHA acceptable.

Cond. Size (AWG)	Cond. Strand	Ins. O.D. (mm)	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Mfg. Part No.
Solid Conductors					
24	Solid	1.32	C2003☐ -100-ND	12.01	C2003
22	Solid	1.45	C2004☐ -100-ND	12.34	C2004
20	Solid	1.63	C2028☐ -100-ND	13.14	C2028
18	Solid	1.83	C2052☐ -100-ND	14.29	C2052
16	Solid	2.11	C2053☐ -100-ND	15.56	C2053
Stranded Conductors					
24	7/32	1.42	C2015☐ -100-ND	12.65	C2015
22	7/30	1.57	C2016☐ -100-ND	13.01	C2016
20	10/30	1.78	C2040☐ -100-ND	13.70	C2040
18	16/30	2.03	C2064☐ -100-ND	14.86	C2064
16	26/30	2.34	C2065☐ -100-ND	16.45	C2065

Cond. Size (AWG)	Cond. Strand	Ins. O.D. (mm)	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	Mfg. Part No.
Solid Conductors					
24	Solid	1.32	C2003☐ -1000-ND	34.25	C2003
22	Solid	1.45	C2004☐ -1000-ND	37.57	C2004
20	Solid	1.63	C2028☐ -1000-ND	45.58	C2028
18	Solid	1.83	C2052☐ -1000-ND	54.76	C2052
16	Solid	2.11	C2053☐ -1000-ND	69.75	C2053
Stranded Conductors					
24	7/32	1.42	C2015☐ -1000-ND	40.63	C2015
22	7/30	1.57	C2016☐ -1000-ND	44.26	C2016
20	10/30	1.78	C2040☐ -1000-ND	51.16	C2040
18	16/30	2.03	C2064☐ -1000-ND	62.79	C2064
16	26/30	2.34	C2065☐ -1000-ND	78.63	C2065

Hookup Wire, Stranded, PVC Insulation UL Style 1015, TEW, PVC, 600V 105°C, VW-1

Conductor Size (AWG)	Strand	Nom. O.D. (mm)	Insulation Thickness	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Mfg. Part No.
24	7/32	2.24	0.81mm	C2100☐ -100-ND	13.04	C2100
22	7/30	2.39	0.81mm	C2101☐ -100-ND	13.65	C2101
20	10/30	2.59	0.81mm	C2102☐ -100-ND	14.62	C2102
18	16/30	2.84	0.81mm	C2103☐ -100-ND	15.70	C2103
16	26/30	3.15	0.81mm	C2104☐ -100-ND	17.94	C2104
14	41/30	3.58	0.81mm	C2105☐ -100-ND	21.41	C2105
10	105/30	4.67	0.81mm	C2107☐ -100-ND	35.18	C2107

Conductor Size (AWG)	Strand	Nom. O.D. (mm)	Insulation Thickness	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	Mfg. Part No.
24	7/32	2.24	0.81mm	C2100☐ -1000-ND	44.53	C2100
22	7/30	2.39	0.81mm	C2101☐ -1000-ND	50.61	C2101
20	10/30	2.59	0.81mm	C2102☐ -1000-ND	60.95	C2102
18	16/30	2.84	0.81mm	C2103☐ -1000-ND	71.76	C2103
16	26/30	3.15	0.81mm	C2104☐ -1000-ND	98.54	C2104
14	41/30	3.58	0.81mm	C2105☐ -1000-ND	131.68	C2105
10	105/30	4.67	0.81mm	C2107☐ -1000-ND	253.94	C2107

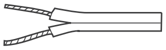
Hookup Wire, Solid, PVC Insulation UL Style 1015, TEW, PVC, 600V 105°C, VW-1

Conductor Size (AWG)	Strand	Nom. O.D. (mm)	Insulation Thickness	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Mfg. Part No.
22	1	2.26	0.81mm	C2117☐ -100-ND	13.14	C2117
20	1	2.44	0.81mm	C2118☐ -100-ND	13.92	C2118
18	1	2.64	0.81mm	C2119☐ -100-ND	14.95	C2119

Conductor Size (AWG)	Strand	Nom. O.D. (mm)	Insulation Thickness	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	Mfg. Part No.
22	1	2.26	0.81mm	C2117☐ -1000-ND	45.58	C2117
20	1	2.44	0.81mm	C2118☐ -1000-ND	53.39	C2118
18	1	2.64	0.81mm	C2119☐ -1000-ND	64.25	C2119

***** For ☐ in Digi-Key Part No. choose letter which represents color of your choice: **B**=Black; **W**=White; **R**=Red; **G**=Green; **A**=Orange; **Y**=Yellow; **L**=Blue; **N**=Brown; **S**=Slate Gray; **V**=Violet.
† Length tolerance is ±1% • Wire is ordered per EIA-359-A color specification which allows for some variation in shade.

General Cable CAROL BRAND PVC Coated Speaker Cable

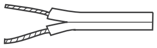


- **Conductor:** Fully annealed 1 bare, 1 tin stranded copper per ASTM B-174; Fully annealed stranded bare copper per ASTM B- 33 (C1364 style only)**
- **Insulation:** Clear; Premium grade PVC Premium grade Superflex PVC (C1364 style only)**
- **Jacket:** PVC Clear
- **Temperature Range**: -20°C to +60°C
- **Voltage Rating:** 90 Volts (UL)*, 300 Volts SPT-1
- **Industry Approvals:** UL wires misc. 90 volts* (except C1364 series); UL recognized 300 volts SPT-1 (except C1364 series); OSHA acceptable (except C1364 series)

No. of Cond.	Cond. Size (AWG)	Strand	Nom. Insulation Thickness (mm)	Nominal O.D. (mm)	Suggested Working Voltage	Digi-Key Part No.	(X = No. of Ft. Per Roll)# Price Per Roll 500 ft.	1,000 ft.	Mfg. Part No.
2	24	7/32	0.41	1.40 x 2.79	250	C1356-X-ND	10.28	20.55	C1356
2	22	7/30	0.51	1.78 x 3.68	300	C1362-X-ND	14.59	29.18	C1362*
2	20	10/30	0.51	2.16 x 4.06	300	C1360-X-ND	19.89	39.78	C1360*
2	18	16/30	0.64	2.54 x 4.75	300	C1357-X-ND	23.29	46.58	C1357*
2	16	26/30	0.64	2.84 x 5.33	300	C1358-X-ND	31.76	63.51	C1358
2	14	41/30	0.64	3.05 x 5.84	300	C1361-X-ND	49.22	98.43	C1361
2	12	65/30	0.76	4.06 x 8.51	300	C1363-X-ND	79.16	158.33	C1363
2	12	7 x 37/36	1.52	5.84 x 11.94	300	C1364-X-ND	151.74	303.48	C1364**

# Length tolerance is ±10%

DABURN PVC Coated Speaker Cable



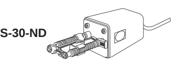
- Conductors are parallel, stranded copper
- Suited for Hi-Fi speaker cable
- Clear insulation
- **Temp. Rating:** -20°C to +60°C
- **Operating Voltage:** 300V

Cond.	Size	Strand	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	Daburn Part No.
2*	22	7/30	W200-X-ND	6.34	49.62	2753
2*	18	16/30	W201-X-ND	10.97	90.61	2759
2*	16	26/30	W202-X-ND	14.79	135.92	2760

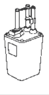
* 1 Conductor Tinned Copper; 1 Conductor Bare Copper

PATCO SERVICE INC. Thermal Wire Strippers

• Nichrome, heating element: 450°F (232°C) in less than 5 seconds. • Teflon stripper 1700°F (927°C) in less than 5 seconds. • Eliminates nicks and broken strands of conductors. • Handles solid, stranded and shielded wires. • Does not burn skin. • AC line power or rechargeable battery power versions. • Complete with cleaning brush and operating instructions.



PTS-30-ND



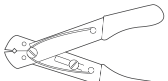
PTS-10-ND
PTS-20-ND
PTS-50-ND

Description	Digi-Key Part No.	Price Each
Thermal Wire Stripper, Battery Powered with Cleaning Brush	PTS-20-ND*	104.47
Replacement Blade for PTS-20	PTS-201-ND	5.04
Thermal Wire Stripper with Cleaning Brush	PTS-10-ND*	59.41
Replacement Blade for PTS-10-ND	PTS-101-ND	5.19
Teflon Wire Stripper for 16-30 AWG	PTS-30-ND	90.31
Replacement Blade for PTS-30-ND	PTS-302-ND	5.32
Thermal Coax Stripper for RG 58, RG 59, RG 62	PTS-50-ND*	94.43
Replacement Blade for PTS-50-ND	PTS-501-ND	6.23

* Will not strip Teflon wire.

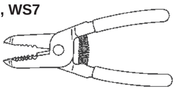
Klauss Wire Strippers

WS4



WS4 STRIPPER:
Handy, lightweight, universal stripping tool cuts and strips common wire sizes. Hardened blades. Vinyl grips. Spring action to speed work. Full length: 4"/102mm.

WS5, WS6, WS7



WS5, WS6, WS7 WIRE STRIPPER:
Strip and cut commonly used wire, single or stranded, AWG or metric. Each tool will strip several different wire sizes. Plier nose is an extra feature along with cushion grips and spring release. Hardened pivot joint for longer life. A perfect tool for solder benches or assembly areas.

Description	Digi-Key Part No.	Price Each
AWG 10 - 22	WS4-ND	8.45
AWG 10 - 20 (Yellow)	WS5-ND	13.70
AWG 16 - 26 (Red)	WS6-ND	13.70
AWG 22 - 30 (Blue)	WS7-ND	14.95

AMP tyco Electronics Authorized Distributor Cable Stripper

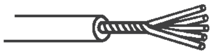
Description	Digi-Key Part No.	Price Each
Cable Stripping Tool for RG/58, 59 (AMP Part No. 603995-1)	A1110-ND	131.14

DABURN Plastic Kinkless Test Lead Wire

Soft formulation vinyl maximum flexibility. Temperature stability from -80°C to +105°C. Exceed requirements for MIL-I-3930A Type JP(PVC). Suitable for test leads, etc. Resistant to gasoline and oil. Excellent abrasion resistance. **Description:** One conductor tinned copper stranded, special formulation vinyl insulation - smooth surface. **Operating Temperature:** –80°C to +105°C, 5000V rating.

Ft.	Size	Strand	Ins. (mm)	O.D. Nom.	Digi-Key Part Number Red	Black	Yellow	Green	Price Per Roll
100	22	26/36	.81	2.54	W2722R-100-ND	W2722B-100-ND	W2722Y-100-ND	W2722G-100-ND	14.25
1000	22	26/36	.81	2.54	W2722R-1000-ND	W2722B-1000-ND	W2722Y-1000-ND	W2722G-1000-ND	94.17
100	18	65/36	.81	2.84	W2718R-100-ND	W2718B-100-ND	W2718Y-100-ND	W2718G-100-ND	24.05
1000	18	65/36	.81	2.84	W2718R-1000-ND	W2718B-1000-ND	W2718Y-1000-ND	W2718G-1000-ND	164.65

Rubber Kinkless Test Lead Wire



Suitable as Test Lead Wire in analyzers, instruments, oscillators, meters, etc. Wherever extra flexibility and limpness are necessary. Single conductor, extra flexible stranded soft tinned copper, color-coded rubber, smooth wax finish. **Operating Temperature:** -20°C to +60°C.

Ft.	Size	Nom. Strand	Breakdown Insul. Wall	Voltage	Nom. Voltage	O.D. Nom.	Digi-Key Part Number Red	Black	Price Per Roll
100	20	41/36	1.19mm	12,000V	3,000	3.48mm	W2715R-100-ND	W2715B-100-ND	41.16
1000	20	41/36	1.19mm	12,000V	3,000	3.48mm	W2715R-1000-ND	W2715B-1000-ND	271.95

General Cable CAROL® BRAND

Multi-Conductor Cable

LL46351 E26174 UL Style 2464 80° 300/V.

COLOR CODE CHART NO. 1

No.	Color	No.	Color	No.	Color
1	Black	11	Pink	21	White/Brown
2	White	12	Tan	22	White/Orange
3	Red	13	Red/Green	23	White/Gray
4	Green	14	Red/Yellow	24	White/Violet
5	Brown	15	Red/Black	25	Wht/Blk/Red
6	Blue	16	White/Black	26	Wht/Blk/Grn
7	Orange	17	White/Red	27	Wht/Blk/Yel
8	Yellow	18	White/Green	28	Wht/Blk/Blu
9	Violet	19	White/Yellow	29	Wht/Blk/Brn
10	Gray	20	White/Blue	30	Wht/Blk/Org

COLOR CODE CHART NO. 2

No.	Color	No.	Color	No.	Color
1	Black	11	Blue/Black	21	Orange/Green
2	White	12	Black/White	22	Blk/Wht/Red
3	Red	13	Red/White	23	Wht/Blk/Red
4	Green	14	Green/White	24	Red/Blk/Wht
5	Orange	15	Blue/White	25	Grn/Blk/Wht
6	Blue	16	Black/Red	26	Org/Blk/Wht
7	White/Black	17	White/Red	27	Blu/Blk/Wht
8	Red/Black	18	Orange/Red	28	Blk/Red/Grn
9	Green/Black	19	Blue/Red	29	Wht/Red/Grn
10	Orange/Black	20	Red/Green	30	Red/Blk/Grn

COLOR CODE CHART NO. 3

No.	Color	No.	Color
1	Black	3	Red
2	Natural	4	Green

COLOR CODE CHART NO. 4

No.	Color	No.	Color
1	Black	3	White
2	Red	4	Green

Notes:

1. UL-2092 (UL: 60°C, 300V)
2. UL-2093 (UL: 60°C, 300V)
3. UL-2106 (UL: 60°C, 600V)
4. NEC Article 725 Type CL2 (UL: 75°C)
5. UL Style 2464 (UL: 80°C, 300V)
6. NEC Article 800 Type CM (UL: 75°C)
7. CSA PCC (60°C)
8. Passes UL 70,000 BTU Vertical Tray Flame Test
9. Passes CSA FT1 Flame Test
10. OSHA acceptable
11. NEC Article 725 (UL: 60°C)
12. California State Fire Marshal
13. Passes CSA FT6 Flame Test
14. NEC Article 725 Type CL3 (UL: 75°C)
15. NEC Article 800 (UL: 60°C)
16. CM-CSA PCC FT4, non UL2464
17. NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
19. NEC Type CL3P only
20. Passes CSA FT4 Flame Test

A. Capacitance between conductors
B. Cap. between 1 conductor & other conductors connected to shield

Non-Plenum

General Specifications: • Temperature Range: -20°C to +80°C (UL +80°C) • Voltage Rating: 150V (UL) • Each conductor stranded tinned copper • Color coded PVC insulation • Nominal Ins. Thickness: .010" (.25mm) • Gray PVC jacket • Conductors: 22AWG 7 x 30 Tinned Copper; 24 AWG 7 x 32 Tinned Copper • Insulation: SR PVC • Construction: Conductors cabled with Foil Shield 22/24 AWG stranded tin drain wire • Jacket: Chrome Vinyl 80°C • Application: For use with computers & instrumentation. 80°C, 300 V, CSA, SR-PC. Also for use in Class 2 and 3 circuits as described in Art of NEDC

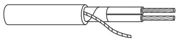
Series C2514, C2534: • Conductor: fully annealed solid or stranded tinned copper per ASTM B-33 • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out; Stranded tinned copper drain wire • Jacket: Gray PVC; Temperature Range: -20°C to +75°C

Series C0454: • Conductor: 22-12AWG fully annealed stranded tinned copper per ASTM B-33 • Insulation: Premium grade color coded PVC • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out; Stranded tinned copper drain wire • Jacket: Gray PVC; Temperature Range: -20°C to +105°C

Series C2543: • Conductor: 18 AWG fully annealed stranded tinned copper per ASTM B-33 • Insulation: Premium grade color coded S-R PVC • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out; Stranded tinned copper drain wire • Jacket: Gray PVC; Temperature Range: -20°C to +80°C

Series C2830/C2404/C2412: • Conductor: 18 AWG fully annealed stranded tinned copper per ASTM B-33 • Insulation: Premium grade color coded PVC per UL 1007 • Jacket: Gray PVC; Temperature Range: -20°C to +80°C

Plenum



Series C2534 / C2535 / C2536: • Conductor: Fully annealed stranded tinned copper per ASTM B-33 • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out, stranded tinned copper drain wire • Insulation: Premium grade color coded polyethylene • Jacket: Gray PVC • Temperature Range: -20°C to +75°C

Series C0755: • Conductor: Fully annealed stranded tinned copper per ASTM B-33 • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out, stranded tinned copper drain wire • Insulation: Premium grade color coded semi-rigid PVC per UL 1061 • Jacket: Gray PVC • Temperature Range: -20°C to +80°C

Series C3062 / C3159 / C3063 / C3068 / C3068: • Conductor: Fully annealed stranded tinned copper per ASTM B-3, B8, or B33 • Insulation: Premium grade color coded Flexguard • Shield: 100% Flexfoil aluminum/polyester foil, 25% overlap, stranded tinned copper drain wire • Jacket: Flexguard, Natural • Temperature Range: 0°C to +60°C • Sequential footage marked to facilitate installations • Includes ripcord

Series C3162: • Conductor: Fully annealed stranded tinned copper per ASTM B-3, B8 or B33 • Insulation: Premium grade color coded Flexguard • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out, stranded tinned copper drain wire • Jacket: Natural Fluoropolymer • Temperature Range: -20°C to +60°C

Series C2428: • Conductor: Fully annealed stranded tinned copper per ASTM B-33 • Insulation: Premium grade color coded PVC • Jacket: Gray PVC • Temperature Range: -20°C to +80°C

Series C3112/C3113/C3120/C3121/C3122/C2127/C3128: • Conductor: Fully annealed stranded tinned copper or bare copper to ASTM B3, B8 or B33 • Insulation: Premium grade color coded Flexguard • Jacket: Flexguard, Natural • Temperature Range: 0°C to +60°C • Sequential footage marked to facilitate installation • Includes ripcord

No. of Cond	Color Chart	Cond. Size (AWG)	Cond. Strand	Size of Drain Wire	Nominal Insulation Thickness Inches (mm)	Nominal Jacket Thickness Inches (mm)	Suggested Working Voltage	Nominal O.D. Inches (mm)	Nominal Cap. pF/FT (See Notes A /B)		Nominal Ohms/M @ 20°C		Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll			Mfg. Part No.
									A	B	Conductor	Shield			100 ft.†	500 ft. #	1,000 ft. #	
NON-PLENUM																		
Unshielded — 22AWG-7/30 Stranded																		
2	Red/Blk	22	7/30	—	0.010 (0.25)	0.025 (0.64)	300V	0.150 (3.81)	25.5	—	—		9	W120-X-ND	17.75	32.91	65.81	C6348-X-10
3	Blk/Rd/Gn	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.176 (4.47)	25.5	—	—		5, 6, 7, 8, 9, 10	W121-X-ND	23.15	48.67	97.34	C4062-X-10
4	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.189 (4.80)	25.5	—	—		5, 6, 7, 8, 9, 10	W122-X-ND	26.46	62.21	124.43	C4063-X-10
5	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.203 (5.16)	25.5	—	—		5, 6, 7, 8, 9, 10	W123-X-ND	28.03	68.64	137.27	C4064-X-10
6	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.218 (5.54)	25.5	—	—		5, 6, 7, 8, 9, 10	W124-X-ND	30.80	71.07	142.14	C4066-X-10
7	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.218 (5.54)	25.5	—	—		5, 6, 7, 8, 9, 10	W125-X-ND	33.94	82.50	165.00	C4088-X-10
8	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.234 (5.94)	25.5	—	—		5, 6, 7, 8, 9, 10	W126-X-ND	36.42	91.52	183.04	C4065-X-10
9	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.249 (6.32)	25.5	—	—		5, 6, 7, 8, 9, 10	W127-X-ND	41.13	122.22	244.44	C4070-X-10
10	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.268 (6.81)	25.5	—	—		5, 6, 7, 8, 9, 10	W128-X-ND	44.47	120.77	241.54	C4071-X-10
12	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.276 (7.01)	25.5	—	—		5, 6, 7, 8, 9, 10	W129-X-ND	48.07	133.85	267.70	C4067-X-10
15	2	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.303 (7.70)	25.5	—	—		5, 6, 7, 8, 9, 10	W130-X-ND	70.81	214.26	428.52	C4073-X-10
20	2	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.334 (8.48)	25.5	—	—		5, 6, 7, 8, 9, 10	W131-X-ND	96.39	297.07	594.14	C4075-X-10
25	2	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.368 (9.35)	25.5	—	—		5, 6, 7, 8, 9, 10	W132-X-ND	113.57	359.54	719.08	C4076-X-10
30	2	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.389 (9.88)	25.5	—	—		5, 6, 7, 8, 9, 10	W133-X-ND	137.88	447.94	895.88	C4077-X-10
Overall Foil Shielded (100% Aluminum Mylar Foil) — 22AWG-7/30 Stranded																		
4	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.190 (4.83)	36.0	65.0	15.0	12.0	5, 6, 7, 8, 9, 10	W504-X-ND	29.80	75.87	151.74	C0762-X-10
6	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.219 (5.56)	34.0	61.0	15.0	12.0	5, 6, 7, 8, 9, 10	W506-X-ND	35.17	86.95	173.90	C0763-X-10
8	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.235 (5.97)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W508-X-ND	43.56	117.45	234.90	C0764-X-10
10	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.269 (6.83)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W510-X-ND	52.09	148.48	296.96	C0765-X-10
15	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.304 (7.72)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W515-X-ND	74.70	228.39	456.78	C0766-X-10
20	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.335 (8.51)	34.0	61.0	15.0	9.1	5, 6, 7, 8, 9, 10	W520-X-ND	97.47	301.01	602.02	C0767-X-10
25	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.369 (9.37)	34.0	61.0	15.0	9.1	5, 6, 7, 8, 9, 10	W525-X-ND	116.22	369.18	738.36	C0768-X-10
Overall Foil Shielded (100% Aluminum Mylar Foil) — 24AWG-7/32 Stranded																		
4	1	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.175 (4.45)	33.0	59.4	26.0	18.0	5, 6, 7, 8, 9, 10	W404-X-ND	26.58	62.67	125.35	C0742-X-10
6	1	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.201 (5.11)	33.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	W406-X-ND	30.83	80.08	160.16	C0743-X-10
8	1	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.215 (5.46)	33.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	W408-X-ND	35.65	88.71	177.42	C0744-X-10
10	1	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.245 (6.22)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W410-X-ND	40.22	105.31	210.62	C0745-X-10
15	2	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.276 (7.01)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W415-X-ND	63.04	188.32	329.56	C0746-X-10
20	2	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.303 (7.70)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W420-X-ND	85.94	259.08	518.16	C0747-X-10
25	2	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.333 (8.46)	30.0	59.4	26.0	12.0	5, 6, 7, 8, 9, 10	W425-X-ND	101.41	315.32	630.64	C0748-X-10
30	2	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.351 (8.92)	30.0	59.4	26.0	12.0	5, 6, 7, 8, 9, 10	W430-X-ND	123.56	395.86	791.72	C0749-X-10
Multi-Conductor Foil Shield																		
2	3	22	7/30	—	0.016 (0.41)	0.026 (0.66)	300V	0.179 (4.55)	26.0	47.0	—		1,2,3,4,5,6,7,8,9,10	C2514-1000-ND	—	—	72.51	C2514
2	Blk/Red	18	16/30	—	0.013 (0.33)	0.037 (0.94)	300V	0.227 (5.77)	50.0	90.0	—		8, 17	C0454-1000-ND	—	—	122.96	C0454
2	3	18	16/30	20.00	0.018 (0.46)	0.030 (0.76)	300V	0.229 (5.82)	24.0	43.0	—		1	C2534-X-ND	30.57	79.02	158.04	C2534
3	3	18	16/30	20.00	0.018 (0.46)	0.030 (0.76)	300V	0.247 (6.27)	22.0	40.0	—		2	C2535-X-ND	36.03	—	197.51	C2535
4	4	18	19/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.238 (6.05)	50.0	90.0	—		5, 6, 7, 8, 19	C2543-1000-ND	—	—	185.84	C2543
2	3	16	19/.0117	18.00	0.032 (0.81)	0.032 (0.81)	600V	0.314 (7.98)	27.0	49.0	—		3, 4	C2536-X-ND	39.25	—	229.01	C2536
9	1	24	7/32	—	0.010 (0.25)	0.032 (0.81)	300V	0.228 (5.79)	30.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	C0755-X-ND	37.62	—	191.76	C0755
Multi-Conductor Unshielded																		
2	Blk/Red	18	16/30	—	0.016 (0.41)	0.025 (0.64)	300V	0.210 (5.33)	28.0	—	—		5, 6, 7, 8, 16, 19	C2830-1000-ND	—	—	82.95	C2830
4	2	18	16/30	—	0.016 (0.41)	0.032 (0.81)	300V	0.258 (6.55)	28.0	—	—		5, 6, 7, 8, 19	C2404-1000-ND	—	—	145.98	C2404
12	2	18	16/30	—	0.016 (0.41)	0.032 (0.81)	300V	0.401 (10.19)	28.0	—	—		5, 6, 7, 8, 19	C2412-1000-ND	—	—	422.10	C2412
15	2	16	19/.0117	—	0.021 (0.53)	0.032 (0.81)	300V	0.534 (13.56)	28.0	—	—		5, 6, 7, 8, 9, 10, 14	C2428-X-ND	—	—	1235.48	C2428
PLENUM																		
Multi-Conductor Foil Shield — Plenum																		
4	1	22	7/30 TC	—	0.008 (0.20)	0.015 (0.38)	150V	0.146 (3.71)	44.0	79.2	—		11, 15	C3159-1000-ND	—	—	111.23	C3159
2	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.164 (4.17)	61.0	109.8	—		11, 15	C3062-1000-ND	—	—	149.06	C3062
2	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.147 (3.73)	53.0	95.4	—		6, 11, 12, 13	C3162-X-ND	39.33	—	229.73	C3162

† Length tolerance is ±1%. Spools are not UL/CSA marked # Length tolerance is ±10%

(Continued)

General Cable CAROL BRAND

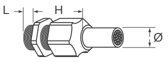
Multi-Conductor Cable *(Cont.)*

No. of Cond	Color Chart	Cond. Size (AWG)	Cond. Strand	Size of Drain Wire	Nominal Insulation Thickness Inches (mm)	Nominal Jacket Thickness Inches (mm)	Suggested Working Voltage	Nominal O.D. Inches (mm)	Nominal Cap. pF/FT (See Notes A	/B)	Nominal Ohms/M @ 20°C Conductor/Shield	Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.†	500 ft. #	1,000 ft. #	Mfg. Part No.
4	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.186 (4.72)	54.0	97.2	—	11, 15	C3063-1000-ND	—	—	151.80	C3063
6	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.223 (5.66)	54.0	97.2	—	11, 15	C3065-1000-ND	—	—	214.55	C3065
2	1	16	19/0117 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.187 (4.75)	70.0	126.0	—	11, 15	C3068-1000-ND	—	—	141.47	C3068
Multi-Conductor Unshielded — Plenum																	
2	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.130 (3.30)	35.0	—	—	11, 12, 15	C3112-1000-ND	—	—	122.15	C3112
3	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.166 (4.22)	35.0	—	—	11, 15	C3120-1000-ND	—	—	110.78	C3120
4	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.178 (4.52)	35.0	—	—	11, 12, 15	C3113-1000-ND	—	—	193.95	C3113
6	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.219 (5.56)	35.0	—	—	11, 15	C3121-1000-ND	—	—	193.73	C3121
8	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.239 (6.07)	35.0	—	—	11, 15	C3122-1000-ND	—	—	246.78	C3122
2	1	16	19/.0117 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.147 (3.73)	39.0	—	—	11, 15	C3127-1000-ND	—	—	109.88	C3127
2	1	14	19/.0117 BC	—	0.010 (0.25)	0.015 (0.38)	150V	0.182 (4.62)	39.0	—	—	11, 15, 18	C3128-1000-ND	—	—	154.08	C3128

† Length tolerance is ±1%. Spools are not UL/CSA marked # Length tolerance is ±10%

AMERICAN ELECTRICAL INC.
MFG. for AMERICAN ELECTRICAL INC. by AGRO

Tight Seal IP68 Nylon Cable Grips (Glands) with Lock Nuts



Application: The use of synthetic cable grips is almost unlimited within the electrical and electronics industry. Installations where cables must be led safely through a wall of an enclosure will be specified with cable grips. Synthetic cable grips are specified to: • Secure the cable to the enclosure's wall to provide excellent pull-out resistance. • Seal and protect the inside of the enclosure from the unwanted affects of the environment. These contaminants may be water, gas, chemical vapors, or fumes. • Reduce material cost due to use of lighter, less expensive materials, as well as, eliminating the need for running conduit.

Technical Data:
- **Material:** Polyamide PA 6, Self-Extinguishing, Halogen-free
- **Seal:** Neoprene, Oil, and Petroleum Resistant
- **Operating Temperature:** Static (-40°C to 100°C), Dynamic (-30°C to 80°C)
- **Safety Class:** IP68, Waterproof (5 Bar)
- **VDE Test Report:** 12 796-9000-4001/A 2 J

Color	Thread Type	Cable Dia. (mm)	Dim. (mm) H	L	Digi-Key Part No.	Price Each 1	10	100	American Electrical Part No.
Black	7-PG	2.5-6.5	21	8	288-1164-ND	1.18	1.06	.83	1545.07.06
	9-PG	3.0-8.0	23	8	288-1165-ND	1.40	1.26	.98	1545.09.08
	11-PG	4.0-10.0	22	8	288-1166-ND	1.50	1.35	1.05	1545.11.10
	11-PG	2.0-7.0	22	8	288-1167-ND	1.73	1.56	1.21	1545.11.07
	13-PG	5.5-12.0	26	9	288-1168-ND	1.80	1.62	1.26	1545.13.12
	13-PG	3.0-7.0	26	9	288-1169-ND	2.00	1.80	1.40	1545.13.07
	16-PG	8.5-14.0	30	10	288-1170-ND	1.95	1.76	1.37	1545.16.14
	16-PG	5.0-11.0	30	10	288-1171-ND	2.23	2.01	1.56	1545.16.11
	21-PG	11.0-18.0	35	11	288-1172-ND	3.20	2.88	2.24	1545.21.18
	21-PG	6.5-14.0	35	11	288-1173-ND	3.50	3.15	2.45	1545.21.14
	29-PG	17.0-25.0	36	11	288-1174-ND	4.25	3.83	2.98	1545.29.25
	36-PG	22.0-33.0	48	15	288-1175-ND	15.93	14.34	11.15	1545.36.33
	42-PG	28.0-38.0	48	15	288-1176-ND	26.63	23.97	18.64	1545.42.38
	48-PG	32.0-44.0	48	15	288-1177-ND	31.18	28.06	21.83	1545.48.44
	3/8-NPT	3.0-8.0	23	8	288-1178-ND	1.20	1.08	.84	1545.N0375.08
	1/2-NPT	5.5-12.0	26	9	288-1179-ND	1.65	1.49	1.16	1545.N0500.12
	1/2-NPT	3.0-7.0	26	9	288-1180-ND	1.80	1.62	1.26	1545.N0500.07
	3/4-NPT	11.0-18.0	35	11	288-1181-ND	2.63	2.37	1.84	1545.N0750.18
	3/4-NPT	6.5-14.0	35	11	288-1182-ND	2.85	2.57	2.00	1545.N0750.14
	1-NPT	17.0-22.0	36	15	288-1183-ND	4.03	3.63	2.82	1545.N1000.22

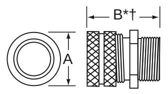
Color	Thread Type	Cable Dia. (mm)	Dim. (mm) H	L	Digi-Key Part No.	Price Each 1	10	100	American Electrical Part No.
Gray	7-PG	2.5-6.5	21	8	288-1184-ND	1.18	1.06	.83	1555.07.06
	9-PG	3.0-8.0	23	8	288-1185-ND	1.40	1.26	.98	1555.09.08
	11-PG	4.0-10.0	22	8	288-1186-ND	1.50	1.35	1.05	1555.11.10
	11-PG	2.0-7.0	22	8	288-1187-ND	1.73	1.56	1.21	1555.11.07
	13-PG	5.5-12.0	26	9	288-1188-ND	1.80	1.62	1.26	1555.13.12
	13-PG	3.0-7.0	26	9	288-1189-ND	2.00	1.80	1.40	1555.13.07
	16-PG	8.5-14.0	30	10	288-1190-ND	1.95	1.76	1.37	1555.16.14
	16-PG	5.0-11.0	30	10	288-1191-ND	2.23	2.01	1.56	1555.16.11
	21-PG	11.0-18.0	35	11	288-1192-ND	3.20	2.88	2.24	1555.21.18
	21-PG	6.5-14.0	35	11	288-1193-ND	3.50	3.15	2.45	1555.21.14
	29-PG	17.0-25.0	36	11	288-1194-ND	4.25	3.83	2.98	1555.29.25
	36-PG	22.0-33.0	48	15	288-1195-ND	15.93	14.34	11.15	1555.36.33
	42-PG	28.0-38.0	48	15	288-1196-ND	26.63	23.97	18.64	1555.42.38
	48-PG	32.0-44.0	48	15	288-1197-ND	31.18	28.06	21.83	1555.48.44
	3/8-NPT	3.0-8.0	23	8	288-1198-ND	1.20	1.08	.84	1555.N0375.08
	1/2-NPT	5.5-12.0	26	9	288-1199-ND	1.65	1.49	1.16	1555.N0500.12
	1/2-NPT	3.0-7.0	26	9	288-1200-ND	1.80	1.62	1.26	1555.N0500.07
	3/4-NPT	11.0-18.0	35	11	288-1201-ND	2.63	2.37	1.84	1555.N0750.18
	3/4-NPT	6.5-14.0	35	11	288-1202-ND	2.85	2.57	2.00	1555.N0750.14
	1-NPT	17.0-22.0	36	15	288-1203-ND	4.03	3.63	2.82	1555.N1000.22

Amphenol®

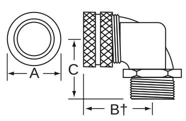
Cord Grips

Aluminum Body and Compression Nut with Washer and Single Hole Oil-Resistant Grommet
This small body connector is ideal for internal uses, as well as conduit hub and panelboard mounting into threaded bodies or with locknuts. Complete units listed require no other parts except cable. Suitable for use in hazardous locations per National Electric Code Class 1, Div.2; Class II, Div. 1 & 2; Class III, Div. 1 & 2. UL listed File No. E53509 and Certified File No. LR-64107.

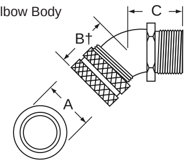
Straight Body



90° Elbow Body



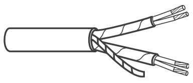
45° Elbow Body

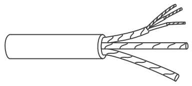


Conduit Hub Size - Inch	Panel Hole Size - Inch	Cord Dia. Range	Dimensions - Inches A	B	C	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
Small Straight Body, Male Thread										
3/8	11/16 NPT	.187-.250	0.88	1.53†	—	DB-414-ND	8.21	4.66	3.43	DB-414
3/8	11/16 NPT	.375-.437	0.88	1.53†	—	DB-4-ND	8.21	4.66	3.43	DB-4
1/2	7/8 NPT	.187-.250	0.88	1.53†	—	DB-314-ND	8.11	4.60	3.39	DB-314
1/2	7/8 NPT	.250-.312	0.88	1.53†	—	DB-3516-ND	8.11	4.60	3.39	DB-3516
1/2	7/8 NPT	.312-.375	0.88	1.53†	—	DB-338-ND	8.11	4.60	3.39	DB-338
1/2	7/8 NPT	.375-.437	0.88	1.53†	—	DB-3-ND	8.11	4.60	3.39	DB-3
1/2	7/8 NPT	.125-.250	1.13	1.84†	—	DB-7-ND	8.97	5.39	4.19	DB-7
1/2	7/8 NPT	.250-.375	1.13	1.84†	—	DB-8-ND	8.97	5.39	4.19	DB-8
1/2	7/8 NPT	.312-.437	1.13	1.84†	—	DB-9716-ND	9.03	5.42	4.22	DB-9716
1/2	7/8 NPT	.375-.500	1.13	1.84†	—	DB-9-ND	8.97	5.39	4.19	DB-9
1/2	7/8 NPT	.500-.625*	1.13	1.84†	—	DB-10-ND	8.97	5.39	4.19	DB-10
1/2	7/8 NPT	.687-.750*	1.25	2.06†	—	DB-934-ND	14.08	9.86	7.32	DB-934
3/4	1 1/8 NPT	.500-.625	1.13	1.84†	—	DB-6-ND	9.39	5.64	4.39	DB-6
1	1 3/8 NPT	.875-1.00*	1.63	2.69†	—	DB-14-ND	16.03	11.22	8.34	DB-14
90° Elbow Body, Male Thread										
1/2	7/8 NPT	.125-.250	1.13	1.88†	1.44	DB-790-ND	13.23	9.26	6.88	DB-790
1/2	7/8 NPT	.250-.375	1.13	1.88†	1.44	DB-890-ND	13.28	9.30	6.91	DB-890
1/2	7/8 NPT	.375-.500	1.13	1.88†	1.44	DB-990-ND	13.23	9.26	6.88	DB-990
1/2	7/8 NPT	.500-.625*	1.13	1.88†	1.44	DB-1090-ND	13.23	9.26	6.88	DB-1090
45° Elbow Body, Male Thread										
1/2	7/8 NPT	.375-.500	1.13	1.31†	1.31	DB-945-ND	17.29	11.29	9.47	DB-945
1/2	7/8 NPT	.500-.625	1.13	1.31†	1.31	DB-1045-ND	17.29	11.29	9.47	DB-1045

* Maximum cord size will not pass through body without removing outer jacket.
† With nut snug, grommet not compressed.

General Cable CAROL® BRAND





Instrumentation Control Cable

COLOR CODE CHART NO. 1

No.	Color	No.	Color
1 2	Black Red	3 4	White Green

COLOR CODE CHART NO. 2

No.	Color	No.	Color
1	Black, Red	2	Green, White

COLOR CODE CHART NO. 3

No.	Color	No.	Color
1 2 3	Black, Red Black, White Black, Green	4 5 6	Black, Blue Black, Yellow Black, Brown

COLOR CODE CHART NO. 4

No.	Color	No.	Color
1 2	Black Red	3 4	Brown Blue

Notes:

1. UL Style 2464 (UL: 60°C, 600V)
2. CSA PCC (CSA: 60°C)
3. Passes UL 70,000 BTU Vertical Tray Flame Test
4. Passes CSA FT4 Flame Test
5. California State Fire Marshal
6. Passes CSA FT6 Flame Test
7. NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
8. NEC Article 800 Type CM
9. UL Style 2835 (UL:60°C, 30V)
10. NEC Article 800 Type CM
11. UL Style 2919 (UL: 80°C, 30V)
12. Passes CSA FT1 Flame Test
13. UL Type FPLR (UL: 60°C, 300V)
14. NEC Article 760
15. Passes UL 1666 Flame Test
16. NEC Article 725 Type CL3R (UL: 75°C, 150V)
17. NEC Article 800 Type CMR (UL: 75°C, 300V)
18. NEC Type CL3R
19. NEC Article 725 Type CL3P (UL: 60°C, 150V)
20. NEC Article 800 Type CMP (UL: 60°C, 300V)
21. UL Style 2464 (UL:80°C, 300V)
22. UL Type FPLP (UL: 60°C, 300V)
23. NEC CL3R
A. Capacitance between conductors
B. Cap. between 1 conductor & other conductors connected to shield

Communications and Control Cable C0561

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33
- Twisted Pairs

Insulation:
- Premium grade color-coded PVC
- Color code: each pair black and red numbered at one inch intervals

Shield:
- 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out
- Stranded tinned copper drain wire

Jacket:
- PVC, gray
- Temperature Range: -20°C to +105°C

Computer Cable

C6047, C6048

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33
- Twisted Pairs

Insulation:
- Premium grade color-coded polyethylene

Shield:
- Individually shielded pairs
- 100% Flexfoil aluminum/polyester, 25% overlap, foil facing in
- Stranded tinned copper drain wire each pair

Jacket:
- PVC, gray
- Temperature Range: -20°C to +80°C

Fire Alarm Cable

Conductor:
- Fully annealed solid bare copper per ASTM B-33

Insulation:
- Premium grade color-coded S-R PVC

Shield:
- Overall polyester supported aluminum foil, plus a stranded tinned copper drain wire to facilitate grounding

Jacket:
- Premium grade, Red PVC
- Suitable for use from -20°C to +60°C
- Round constructions have sequential footabe markings to facilitate installation
- Includes ripcord on round constructions

Sound and Security Cable

Conductor:
- Stranded bare copper to ASTM B-3, B-8 and B-286

Insulation:
- Premium grade color-coded S-R PVC (E2202S Series: Premium grade color-coded Flexguard)

Shield:
- Overall polyester supported aluminum foil, plus a stranded tinned copper drain wire to facilitate grounding

Jacket:
- Premium grade, Gray PVC (E2202S: Premium grade Natural Flexguard)
- Sequential footage markings to facilitate installation
- Suitable for use from -20°C to +75°C (E2202S: 0°C to +60°C)
- Includes ripcord

No. of Pairs	Color Chart	Cond. Size (AWG)	Cond. Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Suggested Working Voltage	Nominal O.D. Inch (mm)	Nominal Cap. pF/FT (See Notes A /B)		Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	500 ft.	1,000 ft.	Mfg. Part No.
NON-PLENUM															
Shielded - Communication and Control Cable															
2	2	22	7/30	0.008 (0.20)	0.020 (0.51)	300V	0.165 (4.19)	35.0	63.0	2,3,4,8,9	C1352-X-ND	28.94	72.36	144.72	C1352
3	3	22	7/30	0.011 (0.28)	0.032 (0.81)	30V	0.292 (7.42)	24.4	43.9	2,3,10,11,12	C6040-X-ND	48.46	152.20	304.40	C6040
3	Black/Red	18	16/30	0.015 (0.38)	0.053 (1.35)	300V	0.403 (10.24)	33.5	60.3	2,3,4,7,21	C0561-1000-ND	—	—	280.16	C0561
3	3	18	16/30	0.016 (0.41)	0.032 (0.81)	30V	0.395 (9.75)	25.7	46.2	2,3,8,11,12	C6047-1000-ND	—	—	301.34	C6047
6	3	18	16/30	0.016 (0.41)	0.048 (1.19)	30V	0.556 (14.07)	25.7	46.2	2,3,8,11,12	C6048-1000-ND	—	—	632.39	C6048

No. of Cond.	Color Chart	Cond. Size (AWG)	Cond. Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Suggested Working Voltage	Nominal O.D. Inch (mm)	Nominal Cap. pF/FT	Notes	Digi-Key Part No.	Price Per Roll 1,000 ft.	Mfg. Part No.
NON-PLENUM												
Unshielded - Fire Alarm Cable												
2	4	14	Solid	0.013 (0.33)	—	300V	0.210 (5.33)	Standard	5,13,14,15	E1522S-1000-ND	100.89	E1522S
4	4	14	Solid	0.013 (0.33)	—	300V	0.248 (6.30)	Standard	5,13,14,15	E1524S-1000-ND	178.80	E1524S
Unshielded - Riser Sound and Security Cable												
2	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.156 (3.96)	—	16,17	E1032S-1000-ND	54.15	E1032S
4	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.187 (4.75)	—	16,17	E1034S-1000-ND	96.35	E1034S
2	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.178 (4.52)	—	16,17	E1042S-1000-ND	78.78	E1042S
4	1	16	19/.0117	0.010 (0.25	0.015 (0.38)	300V	0.209 (5.31)	—	16,17	E1044S-1000-ND	141.48	E1044S
2	1	14	19/.0147	0.013 (0.33)	0.015 (0.38)	300V	0.223 (5.66)	—	16,17,23	E1052S-1000-ND	107.40	E1052S
2	1	12	19/.0185	0.009 (0.23)	0.015 (0.38)	300V	0.260 (6.60)	—	16,17,23	E1062S-1000-ND	156.83	E1062S
Shielded - Fire Alarm Cable												
2	4	14	Solid	0.013 (0.33)	0.015 (0.38)	300V	0.218 (5.54)	Standard	5,13,14,15	E2532S-1000-ND	123.45	E2532S
Shielded - Riser Sound and Security Cable												
2	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.127 (3.23)	—	16,17	E2002S-1000-ND	49.28	E2002S
4	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.146 (3.71)	—	16,17	E2004S-1000-ND	70.82	E2004S
2	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.164 (4.17)	—	16,17	E2032S-1000-ND	72.00	E2032S
3	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.173 (4.39)	—	16,17	E2033S-1000-ND	90.72	E2033S
4	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.191 (4.85)	—	16,17	E2034S-1000-ND	114.05	E2034S
2	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.189 (4.80)	—	16,17	E2042S-1000-ND	99.30	E2042S
2	1	14	19/.0147	0.013 (0.33)	0.015 (0.38)	300V	0.245 (6.22)	—	16,17	E2052S-1000-ND	128.93	E2052S
PLENUM												
Shielded - Fire Alarm Cable												
2	4	14	Solid	0.012 (0.30)	0.015 (0.38)	300V	0.218 (5.54)	Standard	5,14,22	E3622S-1000-ND	151.07	E3622S
Shielded - Riser Sound and Security Cable												
2	2	18	7/26	0.008 (0.20)	0.015 (0.38)	300V	0.164 (4.17)	—	19,20	E2202S-1000-ND	93.54	E2202S

Category 2 - Compatible Cross-Connect Wire

Intended for cross-connecting between terminals of a distribution frame or other premise equipment; suitable for Data/Voice Transmission up to 4 Mbps.

UL Listed Communications Cable

- **Conductors:** 24 AWG solid bare annealed copper • **Insulation:** Semi-rigid, flame retardant PVC
- **Color coding:** BL/W-W/BL • Pairing: Two twists per foot (min) • **Packaging:** 1000 ft spool

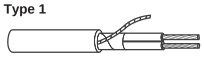
No. of Pairs	Cond. Size (AWG)	O.D. In. (mm)	DC Resistance (max) Ohms/1000 ft @ 20C	Characteristics Impedance Ohms @ 1MHz (nom)	Digi Key Part No.	Price Per Roll# 1,000 ft.	Mfg. Part No.
1	24	.06 (1.52)	28.6	100	C7023708-1000-ND	22.84	7023708

# Length tolerance is ±10%

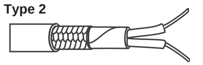
General Cable CAROL BRAND

Shielded Microphone Cable

Cond. Type 1



Cond. Type 2



CONDUCTOR:

Type 1: Fully annealed stranded tinned copper/ ASTM B-33.
Type 2: Fully annealed stranded bare copper per ASTM B-33.

INSULATION:

Type 1: Premium grade color coded polypropylene.
Type 2: Premium grade color coded rubber.

COLOR CODES: See chart.

SHIELD:

Type 1: Conductive tape applied over the core; 100% Flexfoil aluminum/polyester 25% overlap, foil facing in; stranded tinned copper drain wire.
Type 2: 80% tinned copper braid.

JACKET:

Type 1: PVC, Black -20°C to +75°C, 200 voltage rating
Type 2: Black Rubber -20°C to +60°C, 300 voltage rating
Type 3: Carolprene, Black -20°C to +60°C, 300 voltage rating

FEATURES:

Note 1: Excellent shielding to reduce noise
Note 2: Precision engineered to transmit clear, noise-free signals
Note 3: Eliminates hum pick-up
Note 4: Resistant to oil, acid, sunlight, abrasion, and aging
Note 5: Extreme noise reflection
Note 6: Provides extra limpness
Note 7: Low impedance
Note 8: High impedance

COLOR CODE CHART NO. 1			
Conductor	**Color**	**Conductor**	**Color**
1	Black	2	Red
COLOR CODE CHART NO. 2			
Conductor	**Color**	**Conductor**	**Color**
1	White	2	Black

Cond. Type	Cond. Size (AWG.)	Cond. Strand	Insul. Type	Color Chart #	Shield Type	Jacket Type	Features Note No.	No. of Cond.	Nom. Jacket Thickness Inch (mm)	Nom. Insulation Thickness Inch (mm)	Nominal O.D. In. (mm)	Nom. Cap. pF/ft. A/B	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.†	500 ft.#	1,000 ft.#	Mfg. Part No.
1	24	19/36	1	1	1	1	1	2	0.020 (.51)	0.008 (.20)	0.135 (3.43)	30/58	C1228-X-ND	32.24	57.23	114.45	C1228
2	20	26/34	2	2	2	2	2, 3, 6, 8	1	0.035 (.89)	0.040 (1.02)	0.230 (5.84)	B = 42	C1300-X-ND	46.13	—	190.23	C1300
2	20	26/34	2	2	2	2	2, 3, 6, 7	2	0.035 (.89)	0.020 (.51)	0.270 (6.86)	B = 50	C1302-X-ND*	65.73	148.56	297.12	C1302
2	18	41/34	2	2	2	3	2, 3, 4, 5, 8	1	0.035 (.89)	0.040 (1.02)	0.240 (6.10)	B = 46	C1201-X-ND*	46.95	97.35	194.70	C1201
2	18	41/34	2	2	2	3	2, 3, 4, 5, 7	2	0.035 (.89)	0.020 (.51)	0.295 (7.49)	B = 61	C1202-X-ND*	68.64	156.49	312.98	C1202
2	16	65/34	2	2	2	3	2, 3, 4, 5, 7	2	0.035 (.89)	0.025 (.64)	0.335 (8.51)	B = 55	C1602-X-ND*	74.01	—	338.84	C1602

† Length tolerance is ±1% # Length tolerance is ±10% * High and low impedance cable. A = conductor to conductor. B = One conductor and other conductor connected to shield.

General Cable CAROL BRAND

Coaxial Cable

- For CATV, MATV, CB and HAM applications.
- All jackets are made of black PVC.

(X = No. of Feet Per Roll)

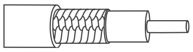
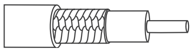
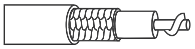
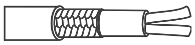
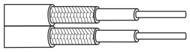
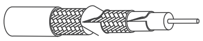
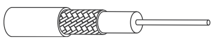
Digi-Key Part No.	(X = No. of Ft. per Roll) Price Per Roll 100 ft.†	500 ft.#	1,000 ft.#	Mfg. Part No.
W300-X-ND	29.96	76.52	153.05	C1166
W301-X-ND	30.50	78.72	157.43	C1104
W302-X-ND	28.15	94.69	189.38	C1164
W303-X-ND	46.01	161.25	322.50	C8000
C8005-X-ND	—	211.14	422.28	C8005
C5785-1000-ND	—	—	125.78	C5785
C5025-1000-ND	—	—	258.09	C5025

# Length tolerance is ±10%
† Length tolerance is ±1%

See "How to Order" for note concerning shipping charges on prepaid orders.

* Percent signal remaining ** Loss per 100 ft.

db	1	2	3	4-1/2	6	8	10-1/2	14	20
%	90	80	70	60	50	40	30	20	10

Digi-Key Part No.	RG Type	Cond. Size (AWG)	Dielec. O.D. Inch (mm)	Shield	Nom. O.D. In. (mm)	Nom. Imp.	Vel. Prop.	Nom. Cap./ Ft. (M)	Nom. MHz*	Atten. dB**
W300-X-ND 	58/U	20 AWG Solid BC	Poly .116 (2.95)	1 TC Braid 95%	.195 (4.95)	50	66%	28.5 (8.7)	50 100 200 400 900	3.0 4.5 6.2 9.5 14.5
W301-X-ND 	59/U	22 AWG Solid BC Clad Steel	Poly .144 (3.66)	1 Mil. C17 BC Braid 95%	.242 (6.15)	73	66%	21.0 (6.4)	50 100 200 400 900	2.4 3.4 4.8 7.1 10.9
W302-X-ND 	62A/U	22 AWG Solid BC Clad Steel	Semi Poly .146 (3.71)	1 BC Braid 95%	.242 (6.15)	93	84%	13.5 (4.1)	50 100 200 400 900	1.9 2.7 3.8 5.4 8.3
W303-X-ND  IBM Eqv: #7362211	Twin Coaxial	20 AWG 7 x 28 Solid 1 BC 1TC	Poly .240 (6.10)	1 TC Braid 95%	.320 (8.13) .320 (8.13)	100	66%	15.5 (4.7)	— —	— —
C8005-X-ND 	59/U Dual	.023 AWG Solid Bare Copper- weld	Poly .144 (3.66)	100% Flexfoil over Dielectric & TC 85%	.242 (6.15) .478 (12.14)	73	66%	20.5 (6.2)	100 200 400 700 900 1000	3.5 5.1 7.5 11.4 12.0 12.7
C5785-X-ND 	6/U NEC CL2 CATV	18 AWG Solid Copper Clad Steel 31.0Ω/M	Cellular Polyethylene 0.18 (4.57)	(2) 100% Flexfoil (2) 55% Aluminum Braid	0.308 (6.86) Black PVC	75	78%	17.30 (5.27)	1 10 50 100 200 500 1000	0.22 0.77 1.56 2.12 3.00 4.80 6.84
C5025-X-ND 	11/U	14 AWG Solid Bare Copper 2.6Ω/M	Cellular Polyethylene 0.285 (7.24)	95% Bare Copper Braid 1.24Ω/M	0.405 (10.29) Black Polyethylene	75	78%	17.30 (5.27)	1 10 50 100 200 500 1000	0.20 0.50 1.00 1.50 2.20 3.70 5.30

General Cable CAROL BRAND

Coaxial Cable

Fig. 1

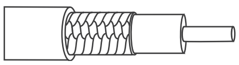
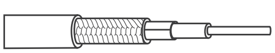


Fig. 2



Nominal Attenuation MHz (dB)

Series	Length in Feet (Meters) 10 (3.0)	50 (15.2)	100 (30.5)	200 (61.0)	400 (121.9)
C3500	0.97	2.21	3.18	4.60	6.72
C3520	0.85	1.90	2.70	3.80	5.30
C3521	0.70	1.57	2.17	3.10	4.68

Series	Length in Feet (Meters) 50 (15)	100 (30)	200 (61)	300 (91)	400 (122)	500 (152)	900 (274)
C1112	2.2	3.0	4.2	5.6	6.9	—	—
C5770	2.3	3.3	4.7	—	—	7.0	10.0
C5775	1.5	2.1	3.1	—	—	5.0	6.9

Fig.	Size	Conductor Size (AWG)	Jacket Color/ Type	Core O.D. Inch (mm)	Shield Type	Nom. O.D. Inch (mm)	Impedance Ohms	V.P. %	Capacitance pF/FT (pF/M)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.†•	500 ft.#	1,000 ft.#	Mfg. Part No.
High Speed Data/LAN FLEXGUARD Jacketed Type MPP/CMP Plenum														
1	RG59/U	20 (Solid BCCS)	Flexguard/Natural	0.138 (3.5)	95% BC braid	0.195 (4.95)	75	82	16.0 (52.5)	C3500-X-ND	57.53	—	477.99	C3500
1	RG62/U	22 (Solid BCCS)	Flexguard/Natural	0.140 (3.56)	95% BC braid	0.195 (4.95)	93	84	13.5 (44.3)	C3520-X-ND	62.15	—	524.25	C3520
1	RG6/U	18 (Solid BCCS)	Flexguard/Natural	0.178 (4.52)	100% Flexfoil plus 95% TC braid	0.235 (5.97)	75	82	16.0 (52.5)	C3521-X-ND	81.53	—	718.02	C3521
High Speed Data/LAN Type MPR/CMR														
1	RG59/U	22 (Solid Bare Copperweld 55 Ω/M)	Black PVC	0.114 (3.65)	70% Bare Copper Braid 4.5 Ω/M	0.242 (6.15)	80	78	16.3	C1112-X-ND	26.34	61.72	—	C1112
2	RG59/U§	22 (Solid Bare Copperweld 55 Ω/M)	Black PVC	0.144 (3.66)	100% Flexfoil plus 40% Alum. braid 55.8 Ω/M	0.238 (6.05)	80*	78*	16.5*	C5770-X-ND	24.02	49.61	—	C5770
2	RG6/U‡	18 (Solid Bare Copper 75Ω/M)	Black PVC	0.180 (4.57)	100% Flexfoil plus 55% Alum. braid	0.270 (6.85)	75*+	78*+	17.3*+	C5775-X-ND	21.85	63.19	—	C5775

† Length tolerance is ±1% # Length tolerance is ±10% § NEC Type CL2-CATV UL Style 1354 ‡ NEC Type CL2-CATV
* 100% Sweep Tested @ Frequency Band: 0-400MHz + Recommended for CATV applications • 100 ft. spools are not UL marked

General Cable CAROL® BRAND

Category 3 - UTP High Speed Data/LAN Type

Suitable for High Speed Data/LAN Transmission up to 16 Mbps. *10BASE-T *4Mbps Token Ring

UL Listed Type MPR/CMR (2133017), UL Listed Type MPP/CMP (2131245), IBM Type 3, EIA/TIA 568 and TSB-36

IEEE 802.3 (10BASE-T), IEEE 802.5 (Token Ring), NEMA (Standard Cable)

- **Conductor:** 24 AWG solid bare annealed copper
- **Insulation:** Flame Retardant PVC
- **Jacket:** Tough, flame retardant PVC (2133017), Tough FLEXGUARD Compound (2131245)
- **Packaging:** 1000 ft PULL-PAC Carton
- **Color Code:** PR#1 = Blue/White - White/Blue,
  PR#2 = Orange/White - White/Orange,
  PR#3 = Green/White - White/Green,
  PR#4 = Brown/White - White/Brown
- **Pairing:** Two twists per foot (min)

No. of Pairs	Cond. Size (AWG)	Jacket Color	O.D. In. (mm)	DC Resistance (max) Ohms/1000 ft @ 20C	Mutual Capacitance (nom) pF/ft @ 1kHz	Characteristics Impedance Ohms @ 772kHz (min-max)	Characteristics Impedance Ohms @ 1-16MHz (min-max)	Attenuation dB/1000ft (max) @ 772kHz	Near-End Crosstalk dB(min) @ 772kHz	Attenuation db/1000ft (max) @16MHz	Near-End Crosstalk dB(min) @ 16MHz	Digi-Key Part No.	Price Per Roll 1,000 ft.#	Mfg. Part No.
High Speed Data/LAN Type MPR/CMR														
4	24	Gray	.16 (4.06)	28.4	18	87-117	85-115	6.8	43.0	40.0	23.0	C2133017-1000-ND	68.74	2133017
High Speed Data/LAN FLEXGUARD Jacketed Type MPP/CMP Plenum														
4	24	White	.15 (3.81)	28.4	18	87-117	85-115	6.8	43.0	40.0	23.0	C2131245-1000-ND	110.70	2131245

# Length tolerance is ±10%

Plenum and Riser Rated Category 5e - UTP High Speed Data/LAN Type

4 Pair, 24 AWG

Excellent attenuation and crosstalk characteristics for extended distance runs in 4/16 Mbps LAN's; varying short pair lay reduces the effect of EMI *10BASE-T *4/16 Mbps Token Ring *100 Mbps TPDDI

- **Conductor:** 24 AWG solid bare annealed copper
- **Pairing:** Varying short pair lay
- **DC Resistance (max) Ω/1000ft @1kHz:** 27.0
- **Mutual Capacitance (nom) pF/ft @1kHz:** 14
- **Characteristics Impedance Ω @772kHz (min-max):** 87-117
- **Characteristics Impedance Ω @1-100MHz (min-max):** 85-115
- **Attenuation dB/1000ft (max) @772kHz:** 5.5
- **Near-End Crosstalk dB (min) @ 772kHz:** 64
- **Attenuation dB/1000ft (max) @16MHz:** 67
- **Near-End Crosstalk dB (min) @ 100MHz:** 32
- **Approvals:**

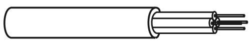
EIA/TIA TSB-36 (Category 5), IEEE 802.3 (Token Ring), NEMA (Extended Frequency), Proposed ANSIX3T9.5 TP-PMD

- **Color Code:** PR#1 = Blue/White - White/Blue,
  PR#2 = Orange/White - White/Orange,
  PR#3 = Green/White - White/Green,
  PR#4 = Brown/White - White/Brown

Jacket Color	O.D. Inch (mm)	Insulation	UL Listed Type	Type	Packaging	Digi-Key Part No.	Price Per Roll 1,000 ft.#	Mfg. Part No.
Gray PVC	0.20 (5.08)	Polyolefin	MPR/CMR	Riser	PULL-PAC	C5133200E-1000-ND	91.06	5133200E
Gray PVC	0.20 (5.08)	Polyolefin	MPR/CMR	Riser	SPOOL-PAC	C5133329E-1000-ND	91.58	5133329E
Blue Flexguard	0.16 (4.06)	FEP	MPP/CMP	Plenum	SPOOL-PAC	C5131431E-1000-ND	304.34	5131431E
Blue Flexguard	0.18 (4.57)	FEP	MPP/CMP	Plenum	PULL-PAC	C5131278E-1000-ND	240.75	5131278E

# Length tolerance is ±10%

Telephone and Datacom Category Cables



• **Conductor:** Solid, bare, copper conductors to ASTM B-3 • **Insulation:** Premium grade, color coded PVC • **Jacket:** Premium grade PVC, Suitable for use from -20°C to +60°C, Suggested voltage rating of 300 volts • **Compliance:** UL Listed Type CMR/CMX-Indoor/Outdoor, NEC Article 800 Type CMR (UL; 60°C,300V) • **Packaging:** 1000 ft EZ OUT Carton

No. of Cond.	Cond. Size (AWG)	Jacket Color	Cond. Strand	Nom. Insulation Thickness Inches (mm)	Nom. Jacket Thickness Inches (mm)	Nom. O.D. Inches (mm)	Digi-Key Part No.	100 ft.†	Price Per Roll 1,000 ft.#	Mfg. Part No.
4	22	Beige	Solid	.006 (.15)	.015 (.38)	.129 (3.28)	C4412-X-ND	19.04	58.52	C4412

† Length tolerance is ± 1% # Length tolerance is ± 10%

Plenum Cable Unshielded

Power limited remote control signal cable.

Features: Installation in air plenums without the use of conduit. Outstanding oil and moisture resistance.

Industry Approvals: UL listed for low smoke and fire characteristics per NEC Code Article 725-2 (b). UL Subject 13 and 910, CL2P.

No. of Cond.	Cond. Size (AWG)	Cond. Strand.	Nominal Jacket Thickness	Nominal O.D. Inch (mm)	Digi-Key Part No.	Pricing 1,000 ft.#	Mfg. Series No.
2	22	7 / 30	.008" (.20mm)	.085 (2.16)	C3105-1000-ND	121.25	C3105
4	22	7 / 30	.008" (.20mm)	.117 (2.97)	C3106-1000-ND	166.61	C3106
2	18	7 / 26	.008" (.20mm)	.120 (3.05)	C3102-1000-ND	180.29	C3102
4	18	7 / 26	.008" (.20mm)	.166 (4.22)	C3103-1000-ND	264.85	C3103
2	18	7 / 26	.008" (.20mm)	.120 (3.05)	C9522-1000-ND	257.40	C9522

# Length tolerance is ±10%

Plenum Cable Shielded

Fig. 1

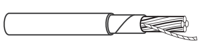
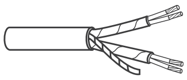


Fig. 2



Color Code Chart for C3156-1000-ND and C3157-1000-ND

No. of Pairs	Color
1	Black & Red
2	Black & White
3	Black & Green

Applications:

- Power limited circuits
- Communication and signal applications
- Cash registers
- Computer systems interfaces
- Intercom systems
- Burglar alarms
- Remote controls
- Low voltage applications.

Features: Installation in air plenums without the use of conduit.

Industry Approvals: UL listed for low smoke and fire characteristics per NEC Code Article 725-2 (b) CL2P.

Fig.	No. of Cond.	No. of Pairs	Cond. Size (AWG)	Cond. Strand.	Nom. Jacket Thickness Inch (mm)	Nom. O.D. In. (mm)	Nom. Cap. Ft. (M)	Digi-Key Part No.	Pricing 1,000 ft.#	Mfg. Series No.
Multi-Conductor, Foil Shielded										
1	4	—	22	7 / 30	.008 (.20)	.125 (3.18)	35 (10.7)	C3155-1000-ND	188.96	C3155
1	4	—	18	7 / 26	.008 (.20)	.176 (4.47)	43 (13.1)	C3163-1000-ND	318.42	C3163
1	2	—	16	7 / .0192	.008 (.20)	.177 (4.50)	35 (10.7)	C3169-1000-ND	265.75	C3169
Multi-Paired, Individually Shielded										
2	—	2	22	7 / 30	.008 (.20)	.145 (3.68)	31 (9.4)	C3156-1000-ND	360.34	C3156

# Length tolerance is ±10%

alpha Multiconductor Cable

Multiconductor Unshielded

Description: 22 AWG (0.35mm²), 7/30 (7 x 0.25mm), Insulation thickness: 0.010" (0.25mm)

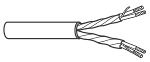
Characteristics: • Temp. Range: -20°C to +80°C (AWM), 75°C (CL2) • Voltage Rating: 150 Volt (AWM, CL2) • Conductor: Stranded tinned copper • Insulation: Color coded PVC • Tape: Clear polyester wrap • Jacket: Gray PVC

Specifications: • Flammability: Passes UL Subject 13 vertical tray flame test

Color Code Chart					
Cond. No.	**Color**	**Cond. No.**	**Color**	**Cond. No.**	**Color**
1	Black	6	Blue	11	Pink
2	Red	7	Brown	12	Tan
3	White	8	Yellow	13	Red/Green
4	Green	9	Violet	14	Red/Yellow
5	Orange	10	Gray	15	Red/Black

No. of Cond.	Jacket Thickness In. (mm)	Diameter Thickness In. (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Multiconductor Unshielded Cable							
2	.032 (.81)	.16 (4.06)	A120-X-ND	18.86	60.98	101.23	1172C-X
3	.032 (.81)	.17 (4.32)	A121-X-ND	24.53	82.01	135.79	1173C-X
4	.032 (.81)	.19 (4.83)	A122-X-ND	27.09	93.24	170.35	1174C-X
5	.032 (.81)	.20 (5.08)	A123-X-ND	32.96	119.00	214.79	1175C-X
6	.032 (.81)	.21 (5.33)	A124-X-ND	35.82	136.60	258.01	1176C-X
7	.032 (.81)	.21 (5.33)	A125-X-ND	38.95	144.70	293.78	1177C-X
8	.032 (.81)	.22 (5.59)	A126-X-ND	46.73	166.21	333.29	1178C-X
9	.032 (.81)	.25 (6.35)	A127-X-ND	46.73	178.61	343.17	1179C-X
10	.032 (.81)	.26 (6.60)	A128-X-ND	54.52	203.02	402.41	1180C-X
12	.032 (.81)	.28 (7.11)	A129-X-ND	74.48	280.31	530.80	1181C-X
15	.032 (.81)	.30 (7.62)	A130-X-ND	102.80	405.77	636.95	1181/15C-X

Multipair Individually Shielded



Twisted Pair

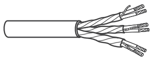
Description: • CL2 rated, 75°C, 150V • 22 AWG (0.36 mm²), 7/30 (7 x 0.25mm), Insulation thickness: 0.008" (0.20mm)

Characteristics: • Temperature Range: -20°C to +105°C • Voltage Rating: 400 Volt • Conductor: Stranded tinned copper • Insulation: Polyprolene (PP) • Shield: Aluminum/polyester tape • Drain Wire: Stranded tinned copper No. 24 • Gray PVC jacket

Color Code	
Pair No.	**Color**
1	Red/Black
2	Green/White

No. of Pair	Jacket Thickness In. (mm)	Diameter Thickness In. (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Multipair Individually Shielded Cable							
2	.019 (.48)	.16 (4.06)	A131-X-ND	24.50	101.14	150.96	2466C-X

Individually Foil Shielded Multi Pair



Description: 22 AWG (0.35mm²), 7/30 (7 x 0.25mm), Insulation thickness 0.010" (0.25mm)

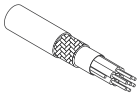
Characteristics: • Temperature Range: -20°C to +60°C (AWM, CL2) • Voltage Rating: 300 Volts (150 Volts - CL2) • Conductor: Stranded tinned copper • Insulation: Color-coded polypropylene (PP) • Shield: (Individual pairs) Aluminum/polyester tape, foil facing inward • Drain Wire: 22 AWG stranded tinned copper • Jacket: PVC, gray

Specifications: • Flammability: Passes UL Subject 13 vertical tray flame test

Color Code Chart					
Pair No.	**Color**	**Pair No.**	**Color**	**Pair No.**	**Color**
1	Black/Red	10	Red/Blue	19	White/Blue
2	Black/White	11	Red/Yellow	20	White/Brown
3	Black/Green	12	Red/Brown	21	White/Orange
4	Black/Blue	13	Red/Orange	22	White/Yellow
5	Black/Brown	14	Green/Blue	23	Blue/Brown
6	Black/Yellow	15	Green/White	24	Blue/Orange
7	Black/Orange	16	Green/Brown	25	Blue/Yellow
8	Red/Green	17	Green/Orange	26	Brown/Orange
9	Red/White	18	Green/Yellow	27	Brown/Yellow

No. of Pair	Jacket Thickness In. (mm)	Diameter Thickness In. (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Individually Foil Shielded Multipair Cable							
3	.045 (1.14)	.31 (7.87)	A132-X-ND	39.81	159.66	285.73	6010C-X
6	.045 (1.14)	.39 (9.91)	A133-X-ND	70.94	280.93	534.59	6012C-X
9	.045 (1.14)	.46 (11.68)	A134-X-ND	170.53	627.46	1026.75	6014C-X
11	.045 (1.14)	.48 (12.19)	A135-X-ND	190.05	698.75	1096.82	6016C-X
12	.045 (1.14)	.48 (12.19)	A136-X-ND	251.47	872.38	1364.10	6017C-X
15	.060 (1.52)	.56 (14.22)	A137-X-ND	261.01	956.03	1625.87	6018C-X
17	.060 (1.52)	.61 (15.49)	A138-X-ND	337.31	1515.20	2405.60	6019C-X
19	.060 (1.52)	.63 (16.00)	A139-X-ND	332.42	1214.42	2018.51	6020C-X
27	.060 (1.52)	.68 (17.27)	A140-X-ND	601.34	2073.65	3196.43	6022C-X

Multiconductor Foil / Braid Shielded



Description: 28 AWG (0.089mm²), 7/36 (7 x 0.13mm), Insulation thickness: 0.010" (0.25mm)

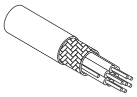
Characteristics: • Operating Temperature Range: -20°C to +80°C (AWM), +75°C (CL2) • Voltage Rating: 300 volts (AWM), 150 volts (CL2) • Conductor: Stranded tinned copper • Insulation: Color-coded semi-rigid PVC • Shield: Aluminum/polyester/aluminum plus overall braid of tinned copper • Drain Wire: 28 AWG 7/36 tinned copper • Jacket: PVC, chrome gray

Specifications: • UL Type CL2, AWM 2464 • CSA PCC FT4 • Flammability: Passes UL vertical tray flame test

Color Code Chart					
Cond. No.	**Color**	**Cond. No.**	**Color**	**Cond. No.**	**Color**
1	Black	10	Gray	19	White/Yellow
2	Red	11	Pink	20	White/Blue
3	White	12	Tan	21	White/Brown
4	Green	13	Red/Green	22	White/Orange
5	Orange	14	Red/Yellow	23	White/Gray
6	Blue	15	Red/Black	24	White/Violet
7	Brown	16	White/Black	25	White/Black/Red
8	Yellow	17	White/Red		
9	Violet	18	White/Green		

No. of Cond.	Jacket Thickness In. (mm)	Diameter Thickness In. (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Foil/Braid Shielded Cable						
6	.035 (.89)	.19 (5.0)	A3466C-X-ND	101.81	526.74	3466C-X
7	.035 (.89)	.19 (5.0)	A3467C-X-ND	111.76	578.14	3467C-X
15	.035 (.89)	.26 (6.6)	A3470/15C-X-ND	196.65	1017.23	3470/15C-X
25	.035 (.89)	.30 (7.7)	A3470/25C-X-ND	364.57	929.81	3470/25C-X

Multiconductor Braid Shielded



Description: 28 AWG (0.09mm²), 7/36 (7 x 0.13mm), Insulation thickness: 0.010" (0.25mm) PVC - Type B

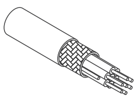
Characteristics: • Operating Temp. Range: -55°C to +105°C • Voltage Rating: 600 Volt • Conductor: Stranded tinned copper • Shield: Braided tinned copper (90% coverage) • Insulation: Color-coded PVC • Jacket: PVC, gray

Specifications: • MIL-W-16878D Type B

Color Code					
Cond. No.	**Color**	**Cond. No.**	**Color**	**Cond. No.**	**Color**
1	Black	6	Blue	11	Blue/Black
2	White	7	White/Black	12	Black/White
3	Red	8	Red/Black	13	Red/White
4	Green	9	Green/Black	14	Green/White
5	Orange	10	Orange/Black	15	Blue/White

No. of Cond.	Jacket Thickness In. (mm)	Diameter Thickness In. (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Braid Shielded Cable						
2	.012 (.30)	.12 (3.1)	A3302-X-ND	145.37	751.47	3302-X
3	.012 (.30)	.13 (3.3)	A3303-X-ND	221.22	1003.71	3303-X
4	.012 (.30)	.14 (3.5)	A3304-X-ND	269.89	1224.22	3304-X
6	.015 (.38)	.17 (4.3)	A3306-X-ND	345.06	1566.43	3306-X
8	.015 (.38)	.17 (4.4)	A3308-X-ND	392.76	1783.41	3308-X
15	.020 (.50)	.23 (5.8)	A3315-X-ND	622.64	3115.23	3315-X

Multiconductor Braid Shielded



Description: Insulation thickness: 0.010" (0.25mm) PVC, 0.003" (0.08mm) Nylon-Type B/N

Characteristics: • Operating Temperature Range: -55°C to +105°C • Voltage Rating: 600 volts • Conductor: Stranded tinned copper • Shield: Braided tinned copper (90% coverage) • Insulation: Color-coded PVC • Jacket: PVC, gray

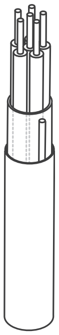
Specifications: • MIL-W-16878D Type B/N

Color Code	
Cond. No.	**Color**
1	White
2	Black
3	Red
4	Green

No. of Cond.	Jacket Conductor AWG	Strand	Thickness In. (mm)	Diameter In. (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Braid Shielded Cable								
3	24	19/36	.016 (0.41)	.16 (4.0)	A3212-X-ND	106.56	462.48	3212-X
4	24	19/36	.017 (0.43)	.18 (4.6)	A3213-X-ND	127.40	535.12	3213-X
2	22	19/34	.016 (0.41)	.18 (4.6)	A3221-X-ND	68.74	291.06	3221-X
3	22	19.34	.017 (0.43)	.18 (4.6)	A3222-X-ND	81.77	363.39	3222-X
4	22	19/34	.019 (0.48)	.20 (5.1)	A3223-X-ND	92.12	419.84	3223-X
2	20	19/32	.019 (0.48)	.19 (4.8)	A3231-X-ND	78.44	345.74	3231-X
3	20	19/32	.019 (0.48)	.21 (5.3)	A3232-X-ND	92.77	419.84	3232-X
4	20	19/32	.021 (0.53)	.23 (5.9)	A3233-X-ND	110.63	515.09	3233-X

Multiconductor Cable — XTRA-Guard® 1

Operating Temperature: • -20°C to +80°C - AWM; -20°C to +75°C - CM
Voltage Rating: 300 Volt
Jacket Color: Gray
Description: • Conductor: Stranded tinned copper • Insulation: Color-coded premium PVC • **SUPRA**SHIELD: Aluminum/Polyester/Aluminum Foil with stranded tinned copper drain wire equal in size to insulated conductors of cable plus 70% overall braid of tinned copper • Nylon rip cord for ease of jacket stripping • Jacket: Premium PVC • Insulation Thickness: 22 AWG: 0.010: (0.25mm); 20AWG, 18AWG and 16 AWG: 0.017" (0.43mm)
Specifications: • UL Type CM, AWM Style 2464 • CSA PCC FT4 • Passes UL VW-1 Flame Test • Passes CSA FT4 Flame Test



Color Code Chart A

Cond. No.	Base Color	1st Stripe	2nd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe
1	Black	—	—	21	White	Brown	—	41	White	Green	Red
2	Red	—	—	22	White	Orange	—	42	White	Green	Green
3	White	—	—	23	White	Gray	—	43	White	Green	Blue
4	Green	—	—	24	White	Violet	—	44	White	Green	Brown
5	Orange	—	—	25	White	Black	Red	45	White	Green	Violet
6	Blue	—	—	26	White	Black	Green	46	White	Blue	Black
7	Brown	—	—	27	White	Black	Yellow	47	White	Blue	Red
8	Yellow	—	—	28	White	Black	Blue	48	White	Blue	Green
9	Violet	—	—	29	White	Black	Brown	49	White	Blue	Blue
10	Gray	—	—	30	White	Black	Orange	50	White	Blue	Brown
11	Pink	—	—	31	White	Black	Gray	51	White	Blue	Violet
12	Tan	—	—	32	White	Black	Violet	52	White	Brown	Black
13	Red	Green	—	33	White	Black	Black	53	White	Brown	Red
14	Red	Yellow	—	34	White	Red	Black	54	White	Brown	Green
15	Red	Black	—	35	White	Red	Red	55	White	Brown	Blue
16	White	Black	—	36	White	Red	Green	56	White	Brown	Brown
17	White	Red	—	37	White	Red	Blue	57	White	Brown	Violet
18	White	Green	—	38	White	Red	Brown	58	White	Violet	Red
19	White	Yellow	—	39	White	Red	Violet	59	White	Violet	Green
20	White	Blue	—	40	White	Green	Black	60	White	Violet	Blue

Color Code Chart B

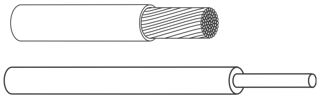
Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black	—	—	—	25	White	Black	Blue	—	49	White	Yellow	Gray	—
2	Brown	—	—	—	26	White	Black	Violet	—	50	White	Green	Blue	—
3	Red	—	—	—	27	White	Black	Gray	—	51	White	Green	Violet	—
4	Orange	—	—	—	28	White	Brown	Red	—	52	White	Green	Gray	—
5	Yellow	—	—	—	29	White	Brown	Orange	—	53	White	Blue	Violet	—
6	Green	—	—	—	30	White	Brown	Yellow	—	54	White	Blue	Gray	—
7	Blue	—	—	—	31	White	Brown	Green	—	55	White	Violet	Gray	—
8	Violet	—	—	—	32	White	Brown	Blue	—	56	White	Black	Brown	Red
9	Gray	—	—	—	33	White	Brown	Violet	—	57	White	Black	Brown	Orange
10	White	—	—	—	34	White	Brown	Gray	—	58	White	Black	Brown	Yellow
11	White	Black	—	—	35	White	Red	Orange	—	59	White	Black	Brown	Green
12	White	Brown	—	—	36	White	Red	Yellow	—	60	White	Black	Brown	Blue
13	White	Red	—	—	37	White	Red	Green	—	61	White	Black	Brown	Violet
14	White	Orange	—	—	38	White	Red	Blue	—	62	White	Black	Brown	Gray
15	White	Yellow	—	—	39	White	Red	Violet	—	63	White	Black	Red	Yellow
16	White	Green	—	—	40	White	Red	Gray	—	64	White	Black	Red	Green
17	White	Blue	—	—	41	White	Orange	Yellow	—	65	White	Black	Red	Blue
18	White	Violet	—	—	42	White	Orange	Green	—	66	White	Black	Red	Violet
19	White	Gray	—	—	43	White	Orange	Blue	—	67	White	Black	Red	Gray
20	White	Black	Brown	—	44	White	Orange	Violet	—	68	White	Black	Orange	Yellow
21	White	Black	Red	—	45	White	Orange	Gray	—	69	White	Black	Orange	Green
22	White	Black	Orange	—	46	White	Yellow	Green	—	70	White	Black	Orange	Blue
23	White	Black	Yellow	—	47	White	Yellow	Blue	—					
24	White	Black	Green	—	48	White	Yellow	Violet	—					

Color Chart	No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Price Per Roll (Roll Size = 100 ft.) 1 Roll	5 Rolls	Alpha Part No.
Multiconductor, Unshielded							
16 AWG (1.23mm^2) 19/0.0117 (19 x 0.29mm)							
A	2	.032 (.81)	.26 (6.5)	A5072C-100-ND	182.32	162.06	5072C SL005
	2	.032 (.81)	.26 (6.5)	A5072/1C-100-ND	182.32	162.06	5072/1C SL005
	3	.032 (.81)	.29 (7.4)	A5073C-100-ND	242.24	215.32	5073C SL005
	3	.032 (.81)	.29 (7.4)	A5073/1C-100-ND	242.24	215.32	5073/1C SL005
	4	.032 (.81)	.32 (8.1)	A5074C-100-ND	302.13	268.56	5074C SL005
	6	.032 (.81)	.37 (9.3)	A5076C-100-ND	401.11	356.54	5076C SL005
	8	.032 (.81)	.41 (10.4)	A5078C-100-ND	539.17	479.26	5078C SL005
	10	.032 (.81)	.44 (11.3)	A5080C-100-ND	742.32	659.84	5080C SL005
	15	.032 (.81)	.52 (13.2)	A5080/15C-100-ND	922.05	819.60	5080/15C SL005
	20	.053 (1.35)	.63 (15.9)	A5080/20C-100-ND	1307.54	1162.26	5080/20C SL005
	25	.053 (1.35)	.68 (17.3)	A5080/25C-100-ND	1622.70	1442.40	5080/25C SL005
	30	.053 (1.35)	.73 (18.6)	A5080/30C-100-ND	1924.83	1710.96	5080/30C SL005
	40	.083 (2.11)	.88 (22.5)	A5080/40C-100-ND	2760.93	2454.16	5080/40C SL005
	50	.083 (2.11)	.96 (24.5)	A5080/50C-100-ND	3419.91	3039.92	5080/50C SL005
18 AWG (0.81mm^2) 16/30 (16 x 0.25mm)							
A	2	.032 (.81)	.23 (5.8)	A5062C-100-ND	143.26	127.34	5062C SL005
	2	.032 (.81)	.23 (5.8)	A5062/1C-100-ND	143.26	127.34	5062/1C SL005
	3	.032 (.81)	.24 (6.1)	A5063C-100-ND	182.34	162.08	5063C SL005
	3	.032 (.81)	.24 (6.1)	A5063/1C-100-ND	182.32	162.06	5063/1C SL005
	4	.032 (.81)	.26 (6.6)	A5064C-100-ND	216.18	192.16	5064C SL005
	6	.032 (.81)	.31 (7.9)	A5066C-100-ND	312.57	277.84	5066C SL005
	8	.032 (.81).	33 (8.4)	A5068C-100-ND	375.08	333.40	5068C SL005
	10	.032 (.81)	.39 (9.8)	A5070C-100-ND	440.19	391.28	5070C SL005
	15	.032 (.81)	.45 (11.5)	A5070/15C-100-ND	669.40	595.02	5070/15C SL005
	20	.032 (.81)	.51(12.9)	A5070/20C-100-ND	841.30	747.82	5070/20C SL005
	25	.032 (.81)	.56 (14.1)	A5070/25C-100-ND	1101.76	979.34	5070/25C SL005
	30	.053(1.35)	.64 (16.3)	A5070/30C-100-ND	1343.99	1194.66	5070/30C SL005
	40	.053 (1.35)	.72 (18.2)	A5070/40C-100-ND	1844.10	1639.20	5070/40C SL005
	50	.053 (1.35)	.79 (20.0)	A5070/50C-100-ND	2284.29	2030.48	5070/50C SL005
	60	.083 (2.11)	.91 (23.1)	A5070/60C-100-ND	2823.46	2509.74	5070/60C SL005
20 AWG (0.56mm^2) 7/28 (7 x 0.32mm)							
A	2	.032 (.81)	.21 (5.3)	A5052C-100-ND	119.81	106.50	5052C SL005
	3	.032 (.81)	.23 (5.9)	A5053C-100-ND	151.07	134.28	5053C SL005
	4	.032(.81)	.25 (6.5)	A5054C-100-ND	179.73	159.76	5054C SL005
	6	.032 (.81)	.29(7.4)	A5056C-100-ND	239.63	213.00	5056C SL005
	8	.032(.81)	.32(8.2)	A5058C-100-ND	281.30	250.04	5058C SL005
	10	.032 (.81)	.35 (8.8)	A5060C-100-ND	325.58	289.40	5060C SL005
	15	.032 (.81)	.40 (10.3)	A5060/15C-100-ND	502.70	446.84	5060/15C SL005
	20	.032 (.81)	.45 (11.5)	A5060/20C-100-ND	645.95	574.18	5060/20C SL005
	25	.032(.81)	.49 (12.6)	A5060/25C-100-ND	770.99	685.32	5060/25C SL005
	30	.032 (.81)	.53 (13.5)	A5060/30C-100-ND	953.30	847.38	5060/30C SL005
	40	.053 (1.35)	.64 (16.3)	A5060/40C-100-ND	1364.85	1213.20	5060/40C SL005
	50	.053 (1.35)	.70 (17.8)	A5060/50C-100-ND	1680.01	1493.34	5060/50C SL005
22 AWG (0.35mm^2) 7/30 (7 x 0.25mm)							
B	2	.032 (.81)	.17 (4.3)	A5002C-100-ND	106.79	94.92	5002C SL005
	3	.032 (.81)	.19 (4.8)	A5003C-100-ND	127.62	113.44	5003C SL005
	4	.032 (.81)	.20 (5.2)	A5004C-100-ND	158.87	141.22	5004C SL005
	6	.032 (.81)	.23 (5.8)	A5006C-100-ND	179.73	159.76	5006C SL005
	8	.032 (.81)	.25 (6.4)	A5008C-100-ND	234.43	208.38	5008C SL005
	10	.032 (.81)	.27 (6.9)	A5010C-100-ND	257.85	229.20	5010C SL005
	15	.032 (.81)	.31 (7.9)	A5010/15C-100-ND	385.49	342.66	5010/15C SL005
	20	.032 (.81)	.35 (8.8)	A5010/20C-100-ND	513.11	456.10	5010/20C SL005
	25	.032 (.81)	.38 (9.6)	A5010/25C-100-ND	599.06	532.50	5010/25C SL005
	30	.032 (.81)	.41 (10.3)	A5010/30C-100-ND	742.32	659.84	5010/30C SL005
	40	.032 (.81)	.46 (11.6)	A5010/40C-100-ND	1015.81	902.94	5010/40C SL005
	50	.032 (.81)	.50 (12.7)	A5010/50C-100-ND	1263.26	1122.90	5010/50C SL005
	60	.032 (.81)	.55 (13.7)	A5010/60C-100-ND	1502.89	1335.90	5010/60C SL005

Color Chart	No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Price Per Roll (Roll Size = 100 ft.) 1 Roll	5 Rolls	Alpha Part No.
Multiconductor, SUPRASHIELD							
16 AWG (1.23mm^2) 19/0.0117 (19 x 0.29mm)							
A	2	.032 (.81)	.28 (7.2)	A5172C-100-ND	299.54	266.26	5172C SL005
	2	.032 (.81)	.28 (7.2)	A5172/1C-100-ND	299.54	266.26	5172/1C SL005
	3	.032 (.81)	.32 (8.0)	A5173C-100-ND	385.49	342.66	5173C SL005
	3	.032 (.81)	.32 (8.0)	A5173/1C-100-ND	385.49	342.66	5173/1C SL005
	4	.032 (.81)	.34 (8.8)	A5174C-100-ND	424.55	377.38	5174C SL005
	6	.032 (.81)	.39 (10.0)	A5176C-100-ND	570.42	507.04	5176C SL005
	8	.032 (.81)	.43 (11.0)	A5178C-100-ND	757.96	673.74	5178C SL005
	10	.032 (.81)	.47 (11.9)	A5180C-100-ND	924.66	821.92	5180C SL005
	15	.032 (.81)	.55 (13.9)	A5180/15C-100-ND	1294.52	1150.68	5180/15C SL005
	20	.053 (1.35)	.65 (16.6)	A5180/20C-100-ND	1706.04	1516.48	5180/20C SL005
	25	.053 (1.35)	.71 (18.0)	A5180/25C-100-ND	2052.47	1824.42	5180/25C SL005
18 AWG (0.81mm^2) 16/30 (16 x 0.25mm)							
A	2	.032 (.81)	.25 (6.5)	A5162C-100-ND	260.46	231.52	5162C SL005
	2	.032 (.81)	.25 (6.5)	A5162/1C-100-ND	260.46	231.52	5162/1C SL005
	3	.032 (.81)	.28 (7.2)	A5163C-100-ND	304.74	270.88	5163C SL005
	3	.032 (.81)	.28 (7.2)	A5163/1C-100-ND	304.74	270.88	5163/1C SL005
	4	.032 (.81)	.31 (7.8)	A5164C-100-ND	341.21	303.30	5164C SL005
	6	.032 (.81)	.35 (8.9)	A5166C-100-ND	450.61	400.54	5166C SL005
	8	.032 (.81)	.38 (9.7)	A5168C-100-ND	549.59	488.52	5168C SL005
	10	.032 (.81)	.41 (10.5)	A5170C-100-ND	653.76	581.12	5170C SL005
	15	.032 (.81)	.48 (12.1)	A5170/15C-100-ND	940.28	835.80	5170/15C SL005
	20	.032 (.81)	.53 (13.5)	A5170/20C-100-ND	1190.32	1058.06	5170/20C SL005
	25	.053 (1.35)	.62 (15.8)	A5170/25C-100-ND	1487.25	1322.00	5170/25C SL005
	30	.053 (1.35)	.67 (16.9)	A5170/30C-100-ND	1724.29	1532.70	5170/30C SL005
	40	.053 (1.35)	.74 (18.9)	A5170/40C-100-ND	2138.42	1900.82	5170/40C SL005
20 AWG (0.56mm^2) 7/28 (7 x 0.32mm)							
A	2	.032 (.81)	.23 (5.9)	A5152C-100-ND	164.85	154.55	5152C SL005
	3	.032 (.81)	.26 (6.6)	A5153C-100-ND	188.93	177.12	5153C SL005
	4	.032 (.81)	.28 (7.1)	A5154C-100-ND	205.60	192.75	5154C SL005
	6	.032(.81)	.32 (8.0)	A5156C-100-ND	268.58	251.79	5156C SL005
	8	.032 (.81)	.35 (8.8)	A5158C-100-ND	294.50	276.09	5158C SL005
	10	.032 (.81)	.37 (9.5)	A5160C-100-ND	366.74	343.82	5160C SL005
	15	.032 (.81)	.43 (10.9)	A5160/15C-100-ND	518.62	486.21	5160/15C SL005
	20	.032 (.81)	.48 (12.1)	A5160/20C-100-ND	648.27	607.76	5160/20C SL005
	25	.032 (.81)	.52 (13.2)	A5160/25C-100-ND	798.30	748.41	5160/25C SL005
	30	.032 (.81)	.56 (14.2)	A5160/30C-100-ND	924.24	866.48	5160/30C SL005
	40	.053 (1.35)	.67 (17.0)	A5160/40C-100-ND	1268.75	1189.46	5160/40C SL005
	50	.053 (1.35)	.73 (18.5)	A5160/50C-100-ND	1520.66	1425.62	5160/50C SL005
	60	.053 (1.35)	.78 (19.8)	A5160/60C-100-ND	1789.23	1677.41	5160/60C SL005
22 AWG (0.35mm^2) 7/30 (7 x 0.25mm)							
B	2	.032 (.81)	.20 (5.0)	A5102C-100-ND	142.62	133.71	5102C SL005
	3	.032 (.81)	.21 (5.4)	A5103C-100-ND	159.30	149.34	5103C SL005
	4	.032 (.81)	.22 (5.6)	A5104C-100-ND	168.54	158.01	5104C SL005
	6	.032 (.81)	.25 (6.4)	A5106C-100-ND	205.60	192.75	5106C SL005
	8	.032 (.81)	.27 (6.9)	A5108C-100-ND	238.93	224.00	5108C SL005
	10	.032 (.81)	.30 (7.6)	A5110C-100-ND	279.68	262.20	5110C SL005
	15	.032 (.81)	.33 (8.4)	A5110/15C-100-ND	394.51	369.86	5110/15C SL005
	20	.032 (.81)	.36 (9.2)	A5110/20C-100-ND	483.42	453.21	5110/20C SL005
	25	.032 (.81)	.39 (9.8)	A5110/25C-100-ND	598.26	560.87	5110/25C SL005
	30	.032 (.81)	.42 (10.9)	A5110/30C-100-ND	694.58	651.17	5110/30C SL005
	40	.032 (.81)	.47 (11.8)	A5110/40C-100-ND	918.69	861.27	5110/40C SL005
	50	.032 (.81)	.51 (12.9)	A5110/50C-100-ND	1118.74	1048.82	5110/50C SL005
	60	.053 (1.35)	.60 (15.4)	A5110/60C-100-ND	1228.00	1151.25	5110/60C SL005
	70	.053 (1.35)	.63 (16.0)	A5110/70C-100-ND	1541.02	1444.71	5110/70C SL005

alpha

Hook-Up Wire

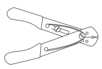


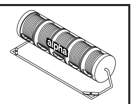
Description:
- Stranded or solid tinned copper conductor
- Color coded PVC insulation
- Flammability: Passes UL VW-1 flame test
- Wire is ordered per EIA-359-A color specifications which allows for some variation in shade

Operating Temperature:

300 Volt: -40°C to +90°C (CSA TR-64), -40°C to +80° (UL AWM 1007)
600 Volt: -20°C to +105°C (UL1015, CSA TEW-105), -55°C to +105°C (MIL-W-16878E Type B) also (MIL-W-76B Type LW)

1800 Series available in White, Black, or Red only.





‡ HU-KIT-20-ND
Five 100-ft. spools, 22AWG, 300V stranded wire (black, white, red, green and blue) **$105.06**

§ HU-KIT-40-ND
Five 100-ft. spools, 24AWG, 300V stranded wire (black, white, red, green and blue) **$105.06**

Each kit comes in convenient wall dispenser and includes wire cutter.

Conductor Size (AWG)	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No. for 100 ft.⁎	Price Per 100 ft.	Alpha Part No.⁎⁎	Digi-Key Part No.⁎	Price Per 1,000 ft.	Alpha Part No.⁎⁎
Stranded — 300 Volt Rating									
30	7/38	.016 (.41)	.043 (1.09)	A3047☐-100-ND•	14.47	3047 ☐ ☐005	A3047☐-1000-ND•	72.86	3047 ☐☐001
28	7/36	.016 (.41)	.047 (1.19)	A3048☐-100-ND•	13.03	3048 ☐ ☐005	A3048☐-1000-ND•	66.20	3048 ☐☐001
26	7/34	.016 (.41)	.051 (1.30)	A3049☐-100-ND•	13.95	3049 ☐ ☐005	A3049☐-1000-ND•	68.51	3049 ☐☐001
24	7/32	.016 (.41)	.057 (1.45)	A2015☐-100-ND§	14.38	3050 ☐ ☐005	A2015☐-1000-ND	69.35	3050 ☐☐001
22	7/30	.016 (.41)	.065 (1.65)	A2016☐-100-ND‡	16.20	3051 ☐ ☐005	A2016☐-1000-ND	76.46	3051 ☐☐001
20	10/30	.016 (.41)	.071 (1.80)	A2040☐-100-ND	19.85	3053 ☐ ☐005	A2040☐-1000-ND	97.00	3053 ☐☐001
18	16/30	.016 (.41)	.080 (2.03)	A2064☐-100-ND	21.06	3055 ☐ ☐005	A2064☐-1000-ND	103.55	3055 ☐☐001
16	26/30	.016 (.41)	.095 (2.41)	A2065☐-100-ND	30.50	3057 ☐ ☐005	A2065☐-1000-ND	147.75	3057 ☐☐001
Solid — 300 Volt Rating									
24	Solid	.016 (.41)	.057 (1.45)	A3050☐-100-ND•	10.86	3050/1 ☐ ☐005	—	—	—
22	Solid	.016 (.41)	.065 (1.65)	A3051☐-100-ND•	11.80	3051/1 ☐ ☐005	—	—	—
20	Solid	.016 (.41)	.071 (1.80)	A3053☐-100-ND•	14.96	3053/1 ☐ ☐005	—	—	—
16	Solid	.016 (.41)	.095 (2.41)	A3057☐-100-ND•	21.64	3057/1 ☐ ☐005	—	—	—
Stranded — 600 Volt Rating (-20°C to +105°C)									
24	7/32	.032 (.81)	.088 (2.24)	A3070☐-100-ND	14.56	3070 ☐ ☐005	—	—	—
22	7/30	.032 (.81)	.094 (2.39)	A2101☐-100-ND	17.42	3071 ☐ ☐005	A2101☐-1000-ND	91.91	3071 ☐☐001
20	10/30	.032 (.81)	.100 (2.54)	A2102☐-100-ND	19.38	3073 ☐ ☐005	A2102☐-1000-ND	103.14	3073 ☐☐001
18	16/30	.032 (.81)	.112 (2.84)	A2103☐-100-ND	23.96	3075 ☐ ☐005	A2103☐-1000-ND	123.20	3075 ☐☐001
16	26/30	.032 (.81)	.124 (3.15)	A2104☐-100-ND	28.96	3077 ☐ ☐005	A2104☐-1000-ND	177.78	3077 ☐☐001
14	41/30	.032 (.81)	.134 (3.61)	A3079☐-100-ND•	41.32	3079 ☐ ☐005	—	—	—
12	65/30	.032 (.81)	.162 (3.93)	A3080☐-100-ND•	67.32	3080 ☐ ☐005	—	—	—
10	105/30	.032 (.81)	.180 (4.83)	A3081☐-100-ND•	96.96	3081 ☐ ☐005	—	—	—
Stranded — 600 Volt Rating (-55°C to +105°C)									
28	7/36	.010 (.25)	.034 (.86)	A1852☐-100-ND	15.91	1852 ☐☐005	—	—	—
26	7/34	.010 (.25)	.038 (.96)	A1853☐-100-ND	15.91	1853 ☐☐005	—	—	—
24	7/32	.010 (.25)	.043 (1.09)	A1854☐-100-ND	16.20	1854 ☐☐005	—	—	—
24	19/36	.010 (.25)	.043 (1.09)	A185419☐-100-ND	26.06	1854/19 ☐☐005	—	—	—
22	7/30	.010 (.25)	.050 (1.27)	A1855☐-100-ND	17.42	1855 ☐☐005	—	—	—
22	19/34	.010 (.25)	.050 (1.27)	A185519☐-100-ND	34.38	1855/19 ☐☐005	—	—	—
20	7/28	.010 (.25)	.058 (1.47)	A1856☐-100-ND	21.80	1856 ☐☐005	—	—	—
20	19/32	.010 (.25)	.058 (1.47)	A185619☐-100-ND	33.86	1856/19 ☐☐005	—	—	—
18	19/30	.010 (.25)	.068 (1.73)	A185719☐-100-ND	45.32	1857/19 ☐☐005	—	—	—
16	19/29	.010 (.25)	.077 (1.96)	A185819☐-100-ND	29.84	1858/19 ☐☐005	—	—	—
14	19/27	.010 (.25)	.091 (2.31)	A185919☐-100-ND	60.68	1859/19 ☐☐005	—	—	—

⁎ For ☐ in Digi-Key Part No. choose letter which represents color of your choice:

A = Orange	**B** = Black	**G** = Green	**L** = Blue	**N** = Brown
R = Red	**S** = Gray	**V** = Violet	**W** = White	**Y** = Yellow

E = Green/Yellow (Stranded wire only)

⁎⁎ For ☐☐ in Alpha Part No. choose letters which represents color of your choice:

OR = Orange	**BK** = Black	**GR** = Green	**BL** = Blue	**BR** = Brown
RD = Red	**SL** = Gray	**VI** = Violet	**WH** = White	**YL** = Yellow

GY = Green/Yellow (Stranded wire only) • Not available in green/yellow

High Voltage Test Lead Wire

Operating Temperature: • -30° to 90°C **Voltage Rating**: • 1500V to 10,000V
Description: • Stranded Tinned Copper • Insulation: Color-Coded Rubber

⁎ For ☐ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **R** = Red

⁎⁎ For ☐☐ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **RD** = Red

Conductor Size (AWG)	Voltage	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.⁎	Price Per 100 ft.	Alpha Part No.⁎⁎
20	15,00V	41/36	.040 (1.02)	.125 (3.18)	A1632☐-100-ND	41.85	1632 ☐ ☐005
18	10,000V	65/36	.045 (1.14)	.140 (3.56)	A1636☐-100-ND	48.26	1636 ☐ ☐005

Tinned Copper Flat Braid

Description:
• Ground/Shielding Terminations • Used as a ground strap, provides excellent, low-resistant ground path • Ideal shielding material for short-run cables providing easy radial termination • Values shown for Current Carrying Capacity are for bare cable in free air at 30°C (86°F) and intended as a reference guide only. Actual values will depend on permissible temperature rise, permissible voltage drop and other conditions of service.

Specifications:
- QQ-W-343E, ASTM-B-33

Nom. Flat Width Inch (mm)	Nom. Thickness Inch (mm)	Braid Construction			Approx. AWG Equivalent	Approx. Current Carrying Capacity (Amps)	Digi-Key Part No.	Price Per 100ft.	Alpha Part No.
		AWG of Individual Ends	Carriers	Total No. of Individual Ends					
.188 (4.76)	.020 (.50)	36	24	120	15	25	A1230SV-100-ND⁎	38.12	1230 SV005
.250 (6.35)	.030 (.76)	36	24	168	14	32	A1231SV-100-ND⁎	51.73	1231 SV005
.375 (9.53)	.030 (.76)	36	48	288	12	46	A1232SV-100-ND	82.82	1232 SV005

⁎ Meets QQ-B-575B

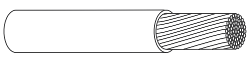
Non-Fraying Expandable Braid Sleeving

Description: • Protection of Wire, Cable and Hoses • Wire bundling and Harnessing, Wire splicing • Frayless cuts without a hot knife • Use with automatic cutting machines • Not affected by most chemical environments and common solvents • Fungus Resistance: No growth • Withstands short-term exposure to 230°C
Operating Temperature: • -70°C to 125°C (MIL-I-631D) (GRP-120NF passes UL VW-1 Flame Test) **Color Description:** • GRP-110NF: Black • GRP-120NF: Black with White Tracer **Nominal Wall Thickness, Inches (mm):** • .027 (.69)

Size O.D. Inch (mm)	Minimum Supplied I.D. Inch (mm)	Maximum Expanded I.D. Inch (mm)	Digi-Key Part No. (General Purpose)	Price Per 100ft.	Alpha Part No. (General Purpose)	Digi-Key Part No. (Flame Retardant)	Price Per 100ft.	Alpha Part No. (Flame Retardant)
.125 (3.18)	.093 (2.36)	.250 (6.35)	AG110NF18B-100-ND	56.70	G110NF18 BK005	AG120NF18B-100-ND	82.69	G120NF18 BK005
.250 (6.35)	.125 (3.18)	.440 (11.09)	AG110NF14B-100-ND	77.96	G110NF14 BK005	AG120NF14B-100-ND	118.13	G120NF14 BK005
.500 (12.70)	.250 (6.35)	.750 (19.05)	AG110NF12B-100-ND	155.93	G110NF12 BK005	AG120NF12B-100-ND	210.26	G120NF12 BK005
.750 (19.05)	.500 (12.70)	1.250 (31.75)	AG110NF34B-100-ND	233.89	G110NF34 BK005	AG120NF34B-100-ND	314.21	G120NF34 BK005

Teflon Hook-Up Wire

Certified Performance
High-Reliability
TFE Teflon® Insulation



Description:

- Stranded Silver-Plated Copper
- Color coded Extruded TFE Teflon® Insulation
- Flammability: Passes UL VW-1 Flame Test
- Not degraded by chemicals, ideal for harsh environments

Choose TFE Teflon® For:

- Resistance to All Chemicals
- High Temperature use up to 200°C
- Low Coefficient of Friction
- Outstanding Electrical Properties

Operating Temperature:
600 Volt: -60°C to +200°C (UL 105°C), (MIL-W-16878E Type E, UL AWM Style 1213)

Cond. Size (AWG)	Cond. Strand	Insulation Thick. Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No. **
Stranded 600 Volt Rating						
30	7/38	.010 (.25)	.032 (.81)	A5851☐-100-ND	16.85	5851 ☐☐005
28	7/36	.010 (.25)	.036 (.91)	A5852☐-100-ND	17.10	5852 ☐☐005
26	7/34	.010 (.25)	.040 (1.02)	A5853☐-100-ND	18.38	5853 ☐☐005
24	19/36	.010 (.25)	.045 (1.14)	A5854☐-100-ND	24.37	5854 ☐☐005
24	7/32	.010 (.25)	.044 (1.12)	A58547☐-100-ND	19.82	5854/7 ☐☐005
22	19/34	.010 (.25)	.051 (1.30)	A5855☐-100-ND	24.82	5855 ☐☐005
22	7/30	.010 (.25)	.055 (1.27)	A58557☐-100-ND	29.09	5855/7 ☐☐005
20	19/32	.010 (.25)	.059 (1.50)	A5856☐-100-ND	35.37	5856 ☐☐005
18	19/30	.010 (.25)	.070 (1.78)	A5857☐-100-ND	45.65	5857 ☐☐005
16	19/29	.010 (.25)	.077 (1.96)	A5858☐-100-ND	55.64	5858 ☐☐005
14	19/27	.012 (.30)	.094 (2.39)	A5859☐-100-ND†	80.57	5859 ☐☐005

† Not UL AWM Style 1213

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **R** = Red **W** = White

** For ☐☐ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **RD** = Red **WH** = White

Bus Bar Wire

Description: • Electrolytic Soft Drawn and Annealed Solid Tin Plated Copper **Specifications**: • MIL-W-3861 Type S • QQ-W-343 Type S

Conductor Size (AWG)	Diameter Inch (mm)	Digi-Key Part No.	Price Per 1000 ft.	Alpha Part No.
Bus Bar Wire				
30	.010 (.25)	A299/3SV-1000-ND	49.01	299/3 SV001
28	.013 (.33)	A299/2SV-1000-ND	52.36	299/2 SV001
26	.016 (.41)	A299/1SV-1000-ND	60.14	299/1 SV001
24	.020 (.51)	A299SV-1000-ND	63.25	299 SV001
22	.025 (.64)	A298SV-1000-ND	82.17	298 SV001
20	.032 (.81)	A297SV-1000-ND	109.15	297 SV001
18	.040 (1.02)	A296SV-1000-ND	155.03	296 SV001
16	.051 (1.30)	A295SV-1000-ND	239.00	295 SV001
14	.064 (1.62)	A286SV-1000-ND	351.52	286 SV001
12	.081 (2.06)	A289SV-1000-ND	520.11	289 SV001

Teflon Tubing

Application: • Wire Harness • High Temperature Component Covering; **Color**: • Transparent **Physical Properties**: • Tensile Strength 2500 psi (176Kg/cm2) • Ultimate Elongation 200% • Flammability: Self-Extinguishing **Chemical Properties**: • Corrosive Effect: Non-Corrosive • Fungus Resistance: No Growth • Water Absorption 0.01% **Electrical Properties**: • Dielectric Strength; 800V/mil **Specifications**: ASTN D 3295

Fits Bare Cond. Size (AWG)	Nominal Inside Dia. Inch (mm)	Wall Thick. Inch (mm)	Digi-Key Part No.	Price Per 100 ft.	Alpha Part No.
Teflon Tubing					
30	.012 (.30)	.009 (.22)	ATFT20030-100-ND	43.74	TFT20030 NA005
28	.015 (.38)	.009 (.22)	ATFT20028-100-ND	38.39	TFT20028 NA005
26	.018 (.45)	.009 (.22)	ATFT20026-100-ND	34.72	TFT20026 NA005
22	.028 (.71)	.010 (.25)	ATFT20022-100-ND	44.39	TFT20022 NA005
19	.038 (.96)	.012 (.30)	ATFT20019-100-ND	57.74	TFT20019 NA005
18	.042 (1.07)	.012 (.30)	ATFT20018-100-ND	62.75	TFT20018 NA005
17	.047 (1.19)	.012 (.30)	ATFT20017-100-ND	68.76	TFT20017 NA005
16	.053 (1.35)	.012 (.30)	ATFT20016-100-ND	74.75	TFT20016 NA005
15	.059 (1.50)	.012 (.30)	ATFT20015-100-ND	77.11	TFT20015 NA005
14	.066 (1.68)	.012 (.30)	ATFT20014-100-ND	66.76	TFT20014 NA005
13	.076 (1.93)	.012 (.30)	ATFT20013-100-ND	77.04	TFT20013 NA005
12	.085 (2.16)	.012 (.30)	ATFT20012-100-ND	82.15	TFT20012 NA005
11	.095 (2.41)	.012 (.30)	ATFT20011-100-ND	89.87	TFT20011 NA005
10	.106 (2.69)	.012 (.30)	ATFT20010-100-ND	97.58	TFT20010 NA005
2	.263 (6.68)	.015 (.38)	ATFT2002-100-ND	269.57	TFT2002 NA005
1	.294 (7.47)	.015 (.38)	ATFT2001-100-ND	295.27	TFT2001 NA005
0	.330 (8.38)	.015 (.38)	ATFT2000-100-ND	333.79	TFT2000 NA005

Local Area Network Unshielded Twisted Pair (UTP)

Category 5e (Enhanced): 4 Pair, 24 AWG, 300V / 60º C • **Application:** ANSI/TIA/EIA-568-A-5 Category 5e ISO/IEC 11801 Category 5 NEMA WC-63.1 Category 5e • **Nominal Impedance:** 100±25%Ω @ 100.1-200.0MHz • **DC Resistance (max.) Ω / 1000':** 28.4Ω/1000' (98.2Ω/Km) • **Maximum Attenuation @ 200MHz:** 9.88dB/100' (32.4dB/100m) • **Conductor:** 24 AWG Solid Bare Copper • **Maximum Capacitance @ 1KHz:** 15pF/FT (49.2pF/m)

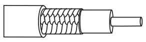
Color Code:

PR#1 = Blue/White-White/Blue
PR#2 = Orange/White-White/Orange
PR#3 = Green/White-White/Green
PR#4 = Brown/White-White/Brown

Conductor No. of Pairs	Jacket Color & Material	Nominal O.D. Inches (mm)	Rating	Type Code	Insulation Material Thickness Diameter Inches (mm)	Digi-Key Part No.	Pricing 1,000ft./Roll	Alpha Part No.
Category 5e								
4	Slate Gray PVC	0.21 (5.33)	Non-Plenum	CMG/CMG FT4	Polyolefin 0.037 (0.94)	A9504CESL-1000-ND	95.63	9504CE SL021
4	Slate Gray Plenum	0.20 (5.08)	Plenum	CMP/CMP FT6	Fluorinated Ethylene Propylene Teflon® 0.034 (0.860)	A9504FESL-1000-ND	292.50	9504FE SL021

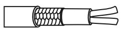
Coaxial, Ethernet, Thinnet, Twinaxial Cable

Coaxial Cables,
Non-Plenum Coaxial and
Data Systems



Thinnet —
Plenum and Non-Plenum
Ethernet Cables

Non-Plenum
Twinaxial Cable



Cond. RG Type	Inner Size (AWG)	Inner Cond. Strand.	Dielec. Cond. Mat'l†	Dia. Inch (mm)	Shield Dielec. Material†	Nom. Coverage	Jacket Shield Material†	Dia. Inch (mm)	Jacket Material†	Impe-dance (Ω)	Cap. pF/ft	Temperature Rate (°C)	Volt Rate	NEC/UL (See Below)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price per roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Coaxial Cable																			
58 A/U	20	19/0.0071"	TC	.116 (2.95)	PE	95%	TC Braid	.195 (4.95)	V Black	50	30.5	60	150	1	A305-X-ND	37.72	152.58	237.24	9058AC-X
58 C/U	20	19/0.0071"	TC	.116 (2.95)	PE	95%	TC Braid	.195 (4.95)	NCV Black	50	30.5	60	—	—	A306-X-ND	71.82	199.82	327.92	9058C-X
59/U	22	Solid	CW	.146 (3.71)	PE	95%	BC Braid	.242 (6.15)	V Black	75	21.4	60	150/CL2, 30/AWM	1, 7	A301-X-ND	38.38	—	218.62	9059C-X
62 A/U	22	Solid	CW	.146 (3.71)	SSP	95%	BC Braid	.242 (6.15)	V Black	93	13.2	60	150/CL2, 30/AWM	1, 8	A302-X-ND	35.46	133.40	183.72	9062A-X
174/U	26	7/34	CW	.060 (1.52)	PE	88%	TC Braid	.100 (2.54)	V Black	50	31.1	—	—	9	A307-X-ND	35.08	139.74	215.26	9174-X
178 B/U	30	7/38	SC/CW	.034 (.86)	TFE	96%	SC Braid	.071 (1.80)	FEP Natural	50	28.4	—	—	—	A316-X-ND	149.60	688.22	587.38	9178B-X
179 B/U	30	7/38	SC/CW	.063 (1.60)	TFE	93%	SC Braid	.100 (2.54)	Tint FEP Brown	75	19.6	—	—	—	A317-X-ND	155.92	717.22	694.88	9179B-X
214/U	13	7/0.0296"	SC	.285 (7.24)	PE	99%	SC Braid Dbl	.425 (10.79)	NCV Black	50	30.8	—	—	—	A308-X-ND•	731.14	3202.06	4971.80	9214-X
223/U	19	Solid	SC	.116 (2.95)	PE	99%	SC Braid Dbl	.212 (5.38)	NCV Black	50	31.5	—	—	—	A309-X-ND•	246.84	1135.42	1884.10	9223-X
316/U	26	7/0.0067"	SCCS	.060 (1.52)	TFE	93%	SC	.098 (2.49)	FEP	50	30.0	—	—	—	A315-X-ND	128.56	617.06	912.44	9316-X
8/U	13	7/21	BC	.285 (7.24)	PE	96%	BC Braid	.405 (10.29)	V Black	52	29.5	—	—	—	A318-X-ND	96.84	445.52	725.62	9008-X
Ethernet Cable																			
Thinnet**	20	19/0.0075"	TC	.112 (2.84)	FEP Teflon	95%	A/M/A + TC Braid	.182 (4.62)	F Gray	50	30.5	125	300	3, 4, 6	A311-X-ND*	—	—	877.80	9871F-X
Thinnet ‡	20	19/32	TC	.102 (2.59)	FPE	95%	A/M/A + TC Braid	.180 (4.57)	V Black	50	25.5	60	300	2, 4, 5	A312-1000-ND	—	—	343.72	9881C-1000
Twinaxial Cable																			
Twinax #	20	7/28	BC/TC	.236 (5.99)	PE	95%	TC Braid	.330 (8.38)	V Black	100	15.5	75/CL2, 80/AWM	150/CL2, 30/AWM	1, 10	A303-X-ND	—	307.62	580.96	9818C-X
Twinax	16	Solid	BC	.150 (3.81)	FPE	90%	A/M/A + TC Braid	.440 (11.18)	V Black	124	10.9	60	150/CL2, 30/AWM	1, 11	A314-X-ND	—	—	1290.85	9820C-X

† Code Description:

A/M/A — Aluminum/Polyester/Aluminum Tape
BC — Bare Copper
CW — Copper Coated Steel
F — Fluoropolymer
FEP — Fluorinated Ethylene-Propylene
FPE — Cellular (foam) Polyethylene
NCV — Non-contaminating Polyvinylchloride,Type II
PE — Solid Polyethylene
SC — Silver Coated Copper
SCCS — Silverz-Coated Copper Clad Steel
SSP — Semi-solid Polyethylene
TC — Tinned Copper
TFE — Tetrafluoroethylene
V — Polyvinylchloride - Type I

* Plenum

** ETHERNET IEEE 802.3 10base2 10Mbps

‡ THIN-NET 10Mbps

# IBM SYSTEM (34/36/38/AS 400)

• MIL-C-170D Type

NEC Rating —

1. CL2 **2.** CM **3.** CMP
4. CXC **5.** FT4 **6.** FT6

UL Style —

7. UL AWM 1354 **8.** UL AWM 1478 **9.** UL 1354
10. UL AWM 2498 **11.** UL AWM 2704

FIT® Shrinkable Tubing FIT® 221B

- Economical bulk packaging
- Flexibility
- Excellent flame retardancy
- Military, UL/CSA requirements

Characteristics:

- Operating Temperature: -55°C to +135°C
- Shrinkage Ratio: Approximately 2 to 1 at 121°C
- Color: Black, Clear

Physical Properties:

- Tensile Strength: 1800 psi, (127 kg/cm^2)
- Ultimate Elongation: 400%
- Longitudinal Shrinkage: 5%
- Specific Gravity: 1.35
- Secant Modulus: 2.5 x 10^4 max.
- Flammability: Self-extinguishing

Electrical Properties:

- Dielectric Strength: 500V/mil (197 kV/cm)
- Volume Resistivity: 10^{14} ohm-cm

Chemical Properties:

- Corrosive Effect: Passes copper stability test
- Fungus Resistance: No growth

Specifications:

- MIL-I-23053/5B
- UL Standard 224 (black only)
- CSA Standard 198 (black only)

CONTENTS for FIT-221 Variety Pack

Tubing Size	Number of Cut Pieces Black	White	Red	Blue	Yellow	Green
1/8”	4	3	2	2	2	1
3/16”	4	3	2	2	2	1
1/4”	4	3	2	2	2	1
3/8”	3	2	1	1	1	1
1/2”	3	2	1	1	1	1

Color	Minimum Supplied Inner Diameter Inch (mm)	Maximum Recovery Inner Diameter Inch (mm)	Nominal Nom. Rec. Wall Thickness Inch (mm)	Digi-Key Part No.	Pricing Sold in 4’ Lengths 4’ (1 pc.)	20’ (5 pcs.)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
FIT® 221B — Irradiated Polyolefin										
Black	0.046 (1.17)	0.023 (0.58)	0.016 (0.41)	A364B-4-ND	.57	2.55	A364B-1000-ND	1000	159.75	FIT-221B-3/64 BKXXX
Clear				A364C-4-ND	.57	2.55	A364C-1000-ND	1000	159.75	FIT-221B-3/64 CLXXX
Black	0.063 (1.60)	0.031 (0.78)	0.017 (0.43)	A116B-4-ND	.58	2.60	A116B-1000-ND	1000	169.88	FIT-221B-1/16 BKXXX
Clear				A116C-4-ND	.58	2.60	A116C-1000-ND	1000	169.88	FIT-221B-1/16 CLXXX
Black	0.093 (2.36)	0.046 (1.17)	0.020 (0.50)	A332B-4-ND	.62	2.75	A332B-500-ND	500	77.29	FIT-221B-3/32 BKXXX
Clear				A332C-4-ND	.62	2.75	A332C-500-ND	500	94.28	FIT-221B-3/32 CLXXX
Black	0.125 (3.18)	0.062 (1.58)	0.020 (0.50)	A018B-4-ND	.67	2.96	A018B-500-ND	500	83.36	FIT-221B-1/8 BKXXX
Clear				A018C-4-ND	.67	2.96	A018C-500-ND	500	83.36	FIT-221B-1/8 CLXXX
Black	0.187 (4.75)	0.093 (2.36)	0.020 (0.50)	A316B-4-ND	.81	3.60	A316B-500-ND	500	101.36	FIT-221B-3/16 BKXXX
Clear				A316C-4-ND	.81	3.60	A316C-500-ND	500	123.53	FIT-221B-3/16 CLXXX
Black	0.250 (6.35)	0.125 (3.18)	0.025 (0.63)	A014B-4-ND	1.01	4.50	A014B-250-ND	250	63.23	FIT-221B-1/4 BKXXX
Clear				A014C-4-ND	1.01	4.50	A014C-250-ND	250	63.23	FIT-221B-1/4 CLXXX
Black	0.375 (9.53)	0.187 (4.75)	0.025 (0.63)	A038B-4-ND	1.13	5.03	A038B-200-ND	200	68.94	FIT-221B-3/8 BKXXX
Clear				A038C-4-ND	1.13	5.03	A038C-200-ND	200	68.94	FIT-221B-3/8 CLXXX
Black	0.500 (12.70)	0.250 (6.35)	0.025 (0.63)	A012B-4-ND	1.28	5.67	A012B-150-ND	150	47.76	FIT-221B-1/2 BKXXX
Clear				A012C-4-ND	1.28	5.67	A012C-150-ND	150	47.82	FIT-221B-1/2 CLXXX
Black	0.750 (19.10)	0.375 (9.53)	0.030 (0.76)	A034B-4-ND	1.70	7.56	A034B-250-ND	250	106.27	FIT-221B-3/4 BKXXX
Clear				A034C-4-ND	1.70	7.56	A034C-250-ND	250	106.27	FIT-221B-3/4 CLXXX
Black	1.000 (25.40)	0.500 (12.70)	0.035 (0.88)	A100B-4-ND	2.54	11.30	A100B-250-ND	250	215.30	F2211IN BKXXX
Clear				A100C-4-ND	2.54	11.30	A100C-250-ND	250	158.85	F221B1IN CLXXX
FIT MGKIT 1 (Heat Gun plus FIT-221 Variety Pack)							FITMGKIT1-ND	93.69 each		FITMGKIT1 NC032
FIT-221 Variety Pack (60, 6 inch cut pieces, see chart above for contents)							FIT221R-ND	31.52 each		FIT-221-R MC213

FIT® Heat Shrink Fabric

Characteristics:

• Operating Temp. -40°C to 125°C • Shrink Ratio: approx. 2 to 1 or 3 to 1 at 135°C depending on size • Color Description: All standard packages: black

Physical Properties:

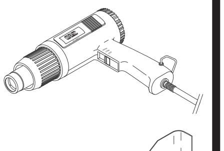
• Longitudinal Shrinkage: up to 20%@ 2:1 shrink ratio, up to 25%@ 3:1 shrink ratio • Flammability: Meets MVSS 302 horizontal burn test

Chemical Properties:

• Corrosive Effect: non-corrosive • Fungus Resistance: no growth • Chemical Resistance: antifreeze (50% ethylene glycol), engine oil, mineral hydraulic fluid, detergent (1% teepol), brake fluid (DOT 4), unleaded gasoline, diesel fuel, battery acid

Color	Minimum Supplied I.D. Inch (mm)	Maximum Recovered I.D. Inch (mm)	Nom. Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
Black	0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-50-ND	50	99.88	FITFAB-1 BK007
Black	0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-200-ND	200	285.95	FITFAB-1 BK004
Black	0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-50-ND	50	119.34	FITFAB-2 BK007
Black	0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-200-ND	200	339.48	FITFAB-2 BK004
Black	1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-50-ND	50	145.58	FITFAB-3 BK007
Black	1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-200-ND	200	413.71	FITFAB-3 BK004
Black	1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-50-ND	50	175.50	FITFAB-4 BK007
Black	1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-200-ND	200	498.89	FITFAB-4 BK004
Black	1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-25-ND	25	107.73	FITFAB-5 BK008
Black	1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-100-ND	100	306.32	FITFAB-5 BK005
Black	2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-25-ND	25	117.16	FITFAB-6 BK008
Black	2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-100-ND	100	333.70	FITFAB-6 BK005
Black	2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-25-ND	25	160.25	FITFAB-7 BK008
Black	2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-100-ND	100	455.38	FITFAB-7 BK005
Black	0.71 (18.0)	0.24 (6.0)	0.039 (0.99)	A0718B-50-ND	50	140.40	FITFAB-8 BK007
Black	0.71 (18.0)	0.24 (6.0)	0.039 (0.99)	A0718B-200-ND	200	400.32	FITFAB-8 BK004
Black	1.18 (30.0)	0.39 (10.0)	0.039 (0.99)	A1189B-50-ND	50	168.03	FITFAB-9 BK007
Black	1.18 (30.0)	0.39 (10.0)	0.039 (0.99)	A1189B-200-ND	200	478.19	FITFAB-9 BK004
Black	2.36 (60.0)	0.79 (20.0)	0.039 (0.99)	A11810B-25-ND	25	124.18	FITFAB-10 BK008
Black	2.36 (60.0)	0.79 (20.0)	0.039 (0.99)	A23610B-100-ND	100	353.18	FITFAB-10 BK005

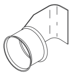
FIT® Multi-Functional Heat Gun



The economical and multi-functional FIT GUN-3 is a two-temperature heat gun that is lightweight in design. The low setting is at 400°C (750°F) while the high temperature is rated at 585°C (1090°F).

It features a durable plastic housing with a built-in ring stand and hanger, concentrator nozzle and hook reflector nozzle attachments.

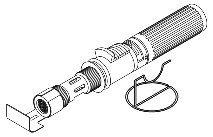
Concentrator Nozzle



Reflector Nozzle

FITGUN3-ND Heat Gun **$68.84**

FIT® Powerful Flameless Butane Torch

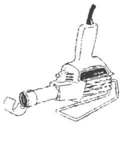


Lightweight and easy to use with a wide nozzle, the FIT TORCH-1 is a convenient repair solution for electrical and electronics technicians. With a temperature range of up to 750ºC (1400ºF), it can be used to shrink most heat shrinkable tubing products. The FIT TORCH-1 is ideal for general heating and drying applications and the heat testing of electronic components. Cordless and refillable, only 7.5 inches long, it can be used continuously up to 120 minutes before recharging with 100% butane fuel. Comes complete with one additional electronic ignition catalytic converter, one deflector attachment, and one tool stand. Butane fuel not included.

FITTORCH-1-ND Butane Torch **$68.64**

MASTER® APPLIANCE MASTERMITE®

Heat Gun



Quiet running. Comes standard with bench stand, heat shrink attachment, and interchangeable heating element. High impact plastic housing, lightweight, draws only 4.0 amps max., continuous duty brushless motor, temperature: 650°F (343°C), 120V, 60Hz, 4.0A.

UL CSA **Certified**

MA1006-ND Heat Gun **$78.36**
MA1007-ND Replacement Heat Element **$24.40**

STEINEL® Heat Guns

Fig. 1

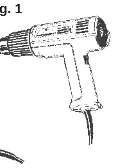


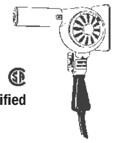
Fig. 2

UL CSA **Certified**

Fig.	Description	Digi-Key Part No.	Price Each
1	3 Speed Fixed Temp Heat Gun	SDL1100-ND	89.95
—	Heat Shrink Attachment for SDL1100-ND	SDL1300-ND	10.95
1	Variable Temp Indust. Heat Gun	SDL1200-ND	159.95
1	Variable, LCD Readout Heat Gun	SDL1350-ND	189.95
2	Variable Ergonomic Heat Gun	SDL1250-ND	159.95
—	Heat Gun Stand Benchtop	SDL1400-ND	24.95
—	Reducer-Reflector Nozzle 3/8” (9mm)	SDL1303-ND	15.95
—	Reducer Nozzle Attachment 3/8” (9mm)	SDL1301-ND	10.95
—	Reducer Nozzle Attachment 5/8” (14mm)	SDL1302-ND	10.95
—	Reflector Nozzle 3” (75mm)	SDL1304-ND	14.95
—	Refl. Nozzle 5/8” (14mm) (does not fit SDL1100)	SDL1305-ND	12.95

HL1502S (SDL1100-ND): Three temperature levels can be selected conveniently with one hand during use. **Specifications:** • Volt.: 120V AC • Output: 1400W • Temp.: • Step 1: 120°F (49°C) • Step 2: 800°F (427°C) • Step 3: 1050°F (566°C) • Air Flow: min. 8.8cfm, max. 17.6cfm. **HL1802E (SDL1200-ND), HG3002LCD (SDL1350-ND), HG2000E (SDL1250-ND):** Continuously adjustable, electronically controlled hot air. The electronic temp. regulator allows ideal temp. setting. Model HG3002LCD has a LCD continuous temp. display. **Specifications:** • Volt.: 120VAC • Output: 1500W • Temp.: 120°– 1100°F (49°– 593°C) • Air Flow: min. 8.8, max. 17.6cfm (HL1802E), min. 7, max. 17.6cfm (HG3002LCD) & min. 11.3, max. 17.6cfm (HG2000E).

MASTER® APPLIANCE Heat Gun



Features universal motor, high air velocity, volume and temperatures. Rugged die cast aluminum housing with externally replaceable carbon brushes, 3 wire oil resistant cord set, and reinforced ceramic heating element, temperature: 500-750°F (260-399°C), 120V, 14A.

UL CSA **Certified**

Description	Digi-Key Part No.	Price Each
Heat Gun	MA1001-ND	106.64
Heat Shrink Attachment - Shrink Tubing from 3/4” to 2” (19-51mm) O.D.	MA1002-ND	16.49
Shrink Wrap Attachment - 8” (203mm) Wide	MA1003-ND	43.91
Heat Reducer Attachment - 3/4” (19mm)	MA1004-ND	8.56
Replacement Heat Element	MA1005-ND	19.64

3M Heat Shrinkable Tubing

KYNAR®, EPS-300, SFTW202 GYS, SFTW203, 8420 & 8440 Series

KYNAR® Series-Modified Polyvinylidene Fluoride: Shrink Temperature: 175°C (347°F). **Color:** Clear. **Shrink Ratio:** 2:1. Cross-linked, thin-walled tubing offers a high degree of mechanical strength and high temperature resistance. This has outstanding abrasion resistance and cut-through properties in combination with high dielectric strength. It is inherently flame retardant, semi-rigid and highly resistant to most industrial fuels, chemicals and solvents. Kynar® is a registered trademark of Elf Atochem North America, Inc.

EPS-300 Series-Adhesive-Lined Flexible Polyolefin: Shrink Temperature: 121°C (250°F). **Color:** Black. **Shrink Ratio:** 3:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and waterproof barrier.

SFTW202 GYS Series-Very Flexible Polyolefin: Shrink Temperature: 100°C (212°F). **Color:** Green and yellow striped. **Shrink Ratio:** 2:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted.

SFTW203 Series-Very Flexible Polyolefin: Shrink Temperature: 100°C (212°F). **Color:** Black. **Shrink Ratio:** 3:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted.

8420 Series-EPDM and 8440 Series-Silicone Rubber Tubes: Color: Black (8420 Series) and Gray (8440 Series). **Cold Shrink™ Insulators-**Open-ended, tubular rubber sleeves that are factory expanded and assembled onto a removable plastic core. Provides a reliable seal without the use of heat, a torch or adhesive - simply position and unwind the core allowing the tube to shrink and form a water-resistant seal.

Tubing Size Dia.* In. (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nominal Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
KYNAR® Series - Modified Polyvinylidene Fluoride									
3/64 (1.19)	1.17	0.58	0.25	KY364C-ND	4.69	8.14	18.00	37.56	61.71
1/16 (1.60)	1.60	0.79	0.25	KY116C-ND	4.82	8.35	18.47	38.54	63.31
3/32 (2.38)	2.36	1.17	0.25	KY332C-ND	5.15	8.93	19.75	41.22	67.71
1/8 (3.18)	3.18	1.57	0.25	KY018C-ND	5.57	9.66	21.37	44.59	73.27
3/16 (4.78)	4.75	2.36	0.25	KY316C-ND	7.85	13.90	30.21	57.18	—
1/4 (6.35)	6.35	3.18	0.30	KY014C-ND	9.69	17.14	37.27	70.54	—
3/8 (9.52)	9.53	4.75	0.30	KY038C-ND	11.67	20.64	44.88	84.92	—
1/2 (12.70)	12.70	6.35	0.30	KY012C-ND	15.48	26.92	53.07	—	—

Tubing Size Dia.* In. (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nominal Recov. Wall Thick (mm)	Meltable Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
EPS-300 Series - Adhesive-lined, Flexible, Polyolefin										
1/8 (3.18)	3.18	1.02	1.02	0.51	EPS3018K-ND	8.53	14.78	32.69	68.23	101.64
3/16 (4.78)	4.75	1.57	1.02	0.51	EPS3316K-ND	8.10	14.33	31.16	57.86	—
1/4 (6.35)	6.35	2.03	1.02	0.51	EPS3014K-ND	10.03	17.75	38.58	71.65	—
3/8 (9.52)	9.53	3.05	1.40	0.62	EPS3038K-ND	11.35	20.08	43.65	81.07	—
1/2 (12.70)	12.70	4.06	1.78	0.76	EPS3012K-ND	13.26	23.46	51.01	94.74	—

Tubing Size Dia* In. (mm)	Expanded I.D. (Min.) (mm)	Recovered I.D (Max.) (mm)	Nominal Recovered Wall Thick. (mm)	(NOTE: "X" in Part No. Represents Number of Feet) Digi-Key Part No.	Price Per Length 5'	25'	50'	Reel Size	Price Per Full Reel
SFTW202 GYS Series - Very Flexible Polyolefin									
1/8 (3.18)	3.18	1.5	0.51	SFTW2018E-X-ND	5.42	21.68	31.07	500	224.34
3/16 (4.78)	4.76	2.5	0.55	SFTW2316E-X-ND	7.51	30.05	43.06	250	155.48
1/4 (6.35)	6.35	3.0	0.65	SFTW2014E-X-ND	8.29	33.17	47.55	200	137.33
3/8 (9.52)	9.53	4.5	0.76	SFTW2038E-X-ND	9.21	36.83	52.78	200	152.46
1/2 (12.70)	12.70	6.0	0.76	SFTW2012E-X-ND	10.34	41.37	59.30	200	171.27
SFTW203 Series - Very Flexible Polyolefin									
1/16 (1.59)	1.5	0.5	0.45	SFTW2116K-X-ND	1.95	7.79	11.16	1,000	161.15
1/8 (3.18)	3.0	1.0	0.55	SFTW2018K-X-ND	2.22	8.88	12.73	500	91.91
1/4 (6.35)	6.0	2.0	0.65	SFTW2014K-X-ND	3.37	13.49	19.33	200	55.83
3/8 (9.52)	9.0	3.0	0.75	SFTW2038K-X-ND	3.77	15.06	21.59	200	62.35
1/2 (12.70)	12.0	4.0	0.75	SFTW2012K-X-ND	4.25	17.00	24.36	200	70.36

* Indicates size BEFORE shrinking occurs.

Diameter Range In. (mm)	Relaxed Tube Length In. (mm)	Digi-Key Part No.	Pricing 1	10
8420 - EPDM Cold Shrink Tubes				
0.31 - 0.56 (7.87 - 14.22)	6.0 (152.40)	8423-6-ND	10.82	98.79
0.10 - 0.82 (2.54 - 20.83)	8.0 (203.20)	8424-8-ND	13.90	126.91
0.40 - 0.82 (10.16 - 20.83)	8.0 (203.20)	8425-8-ND	12.18	111.20
0.55 - 1.18 (13.97 - 29.97)	9.0 (228.60)	8426-9-ND	14.50	132.39
0.55 - 1.18 (13.97 - 29.97)	11.0 (279.40)	8426-11-ND	17.38	158.68
0.67 - 1.38 (17.02 - 35.05)	6.0 (152.40)	8427-6-ND	10.94	99.88
0.67 - 1.38 (17.02 - 35.05)	12.0 (304.80)	8427-12-ND	21.68	197.94
0.67 - 1.38 (17.02 - 35.05)	16.0 (406.40)	8427-16-ND	28.94	264.22
0.95 - 1.94 (24.13 - 49.28)	6.0 (152.40)	8428-6-ND	15.46	141.15
0.95 - 1.94 (24.13 - 49.28)	12.0 (304.80)	8428-12-ND	30.86	281.75
0.95 - 1.94 (24.13 - 49.28)	18.0 (457.20)	8428-18-ND	46.42	423.81
1.27 - 2.67 (32.26 - 67.82)	6.0 (152.40)	8429-6-ND	16.92	154.48
1.27 - 2.67 (32.26 - 67.82)	9.0 (228.60)	8429-9-ND	24.82	226.61
1.27 - 2.67 (32.26 - 67.82)	12.0 (304.80)	8429-12-ND	34.72	316.99
1.27 - 2.67 (32.26 - 67.82)	18.0 (457.20)	8429-18-ND	50.72	463.07
1.68 - 3.69 (42.67 - 93.73)	9.0 (228.60)	8430-9-ND	35.00	319.55
1.68 - 3.69 (42.67 - 93.73)	18.0 (457.20)	8430-18-ND	55.32	505.07
8440 - Silicone Cold Shrink Tubes				
.27 - .56 (6.86 - 14.22)	2.0 (50.80)	8443-2-ND	6.64	60.62
.27 - .56 (6.86 - 14.22)	6.5 (165.10)	8443-6.5-ND	9.16	83.63
.35 - .72 (8.89 - 18.29)	2.5 (63.50)	8445-2.5-ND	6.86	62.63
.35 - .72 (8.89 - 18.29)	7.5 (190.50)	8445-7.5-ND	10.04	91.67
.48 - .95 (12.19 - 24.13)	3.2 (81.28)	8447-3.2-ND	8.42	76.87
.48 - .95 (12.19 - 24.13)	8.0 (203.20)	8447-8-ND	12.10	110.47

SR-350 EPS-200, CP-221,& VFP-876, Series

SR-350 Series-Semi-Rigid Polyolefin: Shrink Temperature: 135°C, **Color:** Black, **Shrink Ratio:** 2:1. Ideally suited for strain-relief applications, wire marking, protective covering and packaging of delicate components.

EPS-200 Series: Shrink Temperature: 121°C, **Color:** Black, **Shrink Ratio:** 2:1 Rapidly shrinks to a skintight fit, forcing the melted adhesive lining to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and waterproof barrier. Rated for operation at -55°C (-67°F) to 110°C (230°F).

CP-221 Series-Commercial Grade Polyolefin: Shrink Temperature: 121°C, **Color:** Black, **Shrink Ratio:** 2:1. Recommended as a general purpose heat shrinkable tubing for new commercial applications where other types of tubing are now used.

VFP-876 Series-Very Flexible Polyolefin: Shrink Temperature: 100°C, **Color:** Black, **Shrink Ratio:** 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Dia.* Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)	200' (50pc.)
SR-350 Series - Semi-rigid Polyolefin										
3/64 (1.19)	1.17	.58	.51	SR364-ND	1.52	2.63	5.81	12.12	22.10	39.21
1/16 (1.59)	1.60	.79	.51	SR116-ND	1.57	2.72	6.01	12.54	22.86	40.55
3/32 (2.38)	2.36	1.17	.51	SR332-ND	1.66	2.88	6.37	13.29	24.22	42.97
1/8 (3.18)	3.18	1.57	.51	SR018-ND	1.77	3.07	6.80	14.19	25.87	45.89
3/16 (4.76)	4.75	2.36	.64	SR316-ND	2.18	3.77	8.34	17.41	31.75	56.32
1/4 (6.35)	6.35	3.18	.64	SR014-ND	2.70	4.67	10.34	21.57	34.89	—
3/8 (9.53)	9.52	4.75	.76	SR038-ND	2.53	4.38	9.68	20.21	32.68	—
1/2 (12.70)	12.70	6.35	.76	SR012-ND	3.42	5.93	13.11	27.37	44.26	—
EPS-200 Series - Adhesive-lined, Flexible, Polyolefin										
1/8 (3.18)	3.18	1.60	.69	EPS2018-ND	4.78	8.29	18.33	38.25	61.66	—
3/16 (4.76)	4.75	2.36	.69	EPS2316-ND	4.51	7.98	17.35	32.22	—	—
1/4 (6.35)	6.35	3.18	.76	EPS2014-ND	5.64	9.99	21.71	40.32	—	—
3/8 (9.53)	9.52	4.75	.79	EPS2038-ND	6.36	11.25	24.45	45.42	—	—
1/2 (12.70)	12.70	6.35	.81	EPS2012-ND	7.30	12.92	28.09	52.18	—	—
3/4 (19.05)	19.05	9.52	.94	EPS2034-ND	8.84	15.37	29.74	—	—	—
1 (25.40)	25.40	12.70	1.17	EPS2100-ND	12.99	22.59	43.71	—	—	—
1-1/2 (38.10)	38.10	19.05	1.24	EPS2112-ND	22.72	39.52	76.45	—	—	—
2 (50.80)	50.80	25.40	1.52	EPS2200-ND	31.62	48.93	—	—	—	—

Tubing Size Dia.* Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	(NOTE: "X" in Part No. Represents Number of Feet) Digi-Key Part No.	Price Per Length 5'	25'	50'	100'	200'
CP-221 Series - Commercial Grade Polyolefin									
3/64 (1.19)	1.17	.58	.41	CP364-X-ND	1.44	6.44	11.54	20.76	—
1/16 (1.59)	1.60	.79	.43	CP116-X-ND	1.47	6.58	11.79	21.22	—
3/32 (2.38)	2.36	1.17	.51	CP332-X-ND	1.56	6.96	11.22	17.87	—
1/8 (3.18)	3.18	1.57	.51	CP018-X-ND	1.67	7.44	11.99	19.09	—
3/16 (4.76)	4.75	2.36	.51	CP316-X-ND	1.99	7.95	11.40	20.14	—
1/4 (6.35)	6.35	3.18	.64	CP014-X-ND	2.51	10.02	14.36	25.38	41.48
3/8 (9.53)	9.52	4.75	.64	CP038-X-ND	2.85	11.39	16.33	28.86	47.16
1/2 (12.70)	12.70	6.35	.64	CP012-X-ND	3.41	13.62	19.52	34.50	56.39
3/4 (19.05)	19.05	9.52	.76	CP034-X-ND	4.59	18.38	26.34	46.55	76.07
1 (25.40)	25.40	12.70	.89	CP100-X-ND	6.91	27.64	39.61	57.21	—
1-1/2 (38.10)	38.10	19.05	1.02	CP112-X-ND	12.03	48.11	68.96	99.59	—
2 (50.80)	50.80	25.40	1.14	CP200-X-ND	16.58	66.33	95.07	137.30	—
VFP-876 Series - Very Flexible Polyolefin, Self-extinguishing									
3/64 (1.19)	1.17	.58	.41	VFP364-X-ND	1.83	8.17	14.64	26.35	—
1/16 (1.59)	1.60	.79	.43	VFP116-X-ND	1.86	8.32	14.91	26.84	—
3/32 (2.38)	2.36	1.17	.51	VFP332-X-ND	1.97	8.80	14.19	22.60	—
1/8 (3.18)	3.18	1.57	.51	VFP018-X-ND	2.13	9.50	15.31	24.38	—
3/16 (4.76)	4.75	2.36	.51	VFP316-X-ND	2.59	10.36	14.85	26.24	—
1/4 (6.35)	6.35	3.18	.64	VFP014-X-ND	3.23	12.92	18.52	32.74	42.48
3/8 (9.53)	9.52	4.75	.64	VFP038-X-ND	3.61	14.43	20.68	36.56	47.41
1/2 (12.70)	12.70	6.35	.64	VFP012-X-ND	4.07	16.28	23.34	41.25	53.50
3/4 (19.05)	19.05	9.52	.76	VFP034-X-ND	5.43	21.71	31.12	55.01	71.35
1 (25.40)	25.40	12.70	.89	VFP100-X-ND	8.12	32.46	46.53	53.33	—
1-1/2 (38.10)	38.10	19.05	1.02	VFP112-X-ND	15.13	60.50	86.72	99.39	—
2 (50.80)	50.80	25.40	1.14	VFP200-X-ND	20.90	83.60	119.83	137.35	—

* Indicates size BEFORE shrinking occurs.

3M Colored Heat Shrinkable Tubing (FP-301 Series)

Available in 7 Colors: (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow)

Shrink Temperature: 121°C. **Shrink Ratio:** 2:1. Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

Tubing Size Dia. * Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'	250'
FP-301 Series - Flexible Polyolefin, Self-extinguishing, Flame Retardant, Color										
3/64 (1.19)	1.17	.58	.41	FP364☐-X-ND†	1.53	6.83	12.24	22.04	—	43.86
1/16 (1.59)	1.60	.79	.43	FP116☐-X-ND	1.56	6.97	12.49	22.47	—	44.72
3/32 (2.38)	2.36	1.17	.51	FP332☐-X-ND	1.65	7.37	11.88	18.92	—	41.80
1/8 (3.18)	3.18	1.57	.51	FP018☐-X-ND	1.78	7.95	12.81	20.41	—	45.08
3/16 (4.76)	4.75	2.36	.51	FP316☐-X-ND	2.17	8.68	12.43	21.96	—	44.87
1/4 (6.35)	6.35	3.18	.64	FP014☐-X-ND	2.70	10.81	15.49	27.37	44.74	—
3/8 (9.53)	9.52	4.75	.64	FP038☐-X-ND	3.02	12.08	17.32	30.61	50.02	—
1/2 (12.70)	12.70	6.35	.64	FP012☐-X-ND	3.41	13.63	19.53	34.52	56.42	—
3/4 (19.05)	19.05	9.52	.76	FP034☐-X-ND	4.54	18.16	26.02	45.99	75.18	—
1 (25.40)	25.40	12.70	.89	FP100☐-X-ND	6.79	27.16	38.92	56.20	—	—
1-1/2 (38.10)	38.10	19.05	1.02	FP112☐-X-ND†	12.65	50.61	72.53	104.75	—	—
2 (50.80)	50.80	25.40	1.14	FP200☐-X-ND†	17.48	69.93	100.22	144.74	—	—

Note: For complete number, substitute ☐ with appropriate color (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow) and substitute "X" with length choice.

* Indicates size BEFORE shrinking occurs. † Not available in green.

FPC-KIT-ND ***Digi-Key® FP-301 Series Kit*** One 5 foot tubing of each color in the following series: FP364, FP116, FP332, FP018, FP316, FP014, FP038 and FP012 (55 pieces total of 8 sizes)..**$59.95**

3M Heat Shrink Precut Lengths and Kits

CP-221 Series-Commercial Grade Polyolefin:

Shrink Temp.: 121°C, Color: Black, Shrink Ratio: 2:1, recommended as a general purpose heat shrinkable tubing for new commercial applications where other types of tubing are now used.

FP-301 Series-Flexible Polyolefin:

Shrink Temp.: 121°C, Color: Black, Shrink Ratio: 2:1, Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

VFP-876 Series-Very Flexible Polyolefin:

Shrink Temp.: 100°C, Color: Black, Shrink Ratio: 2:1, Most flexible of the heat shrinkable, polyolefin tubings, Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Dia.* x Length Inch (mm)	Expanded I.D. (Min.) (mm)	Recovered I.D. (Max.) (mm)	Nom. Recovered Wall Thick. (mm)	Digi-Key Part No.	Pricing (50 pcs./ bag) 1 Bag	5 Bags
CP-221 Series						
3/64 x 1/2 (1.19 x 12.70)	1.19	0.58	0.41	CP364-R50-ND	.87	3.46
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.43	CP116-R50-ND**	.88	3.54
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	CP332-R50-ND**	.93	3.74
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	CP018-R75-ND**	1.33	5.33
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.51	CP316-R75-ND**	1.59	6.36
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.64	CP014-1R0-ND**	2.51	10.02
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.64	CP014-1R5-ND**	3.51	14.03
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.64	CP038-1R5-ND	3.99	15.95
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.64	CP012-1R5-ND	4.77	19.07
FP-301 Series — Self-extinguishing						
3/64 x 1/2 (1.19 x 12.70)	1.19)	0.58	0.41	FP364K-R50-ND	.92	3.67
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.43	FP116K-R50-ND‡	.94	3.74
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	FP332K-R50-ND‡	.99	3.96
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	FP018K-R75-ND‡	1.42	5.69
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.51	FP316K-R75-ND‡	1.73	6.94
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.64	FP014K-1R0-ND‡	2.70	10.81
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.64	FP014K-1R5-ND‡	3.78	15.13
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.64	FP038K-1R5-ND	4.23	16.92
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.64	FP012K-1R5-ND	4.77	19.08
VFP-876 Series — Self-extinguishing						
3/64 x 1/2 (1.19 x 12.70)	1.19	0.58	0.41	VFP364-R50-ND	1.10	4.39
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.41	VFP116-R50-ND†	1.12	4.47
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	VFP332-R50-ND†	1.18	4.73
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	VFP018-R75-ND†	1.70	6.80
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.58	VFP316-R75-ND†	2.07	8.29
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.71	VFP014-1R0-ND†	3.23	12.92
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.71	VFP014-1R5-ND†	4.52	18.09
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.71	VFP038-1R5-ND	5.05	20.20
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.71	VFP012-1R5-ND	5.70	22.80

* Indicates size BEFORE shrinking occurs.

** **CP-KIT-ND** ***Digi-Key® CP-221 Series Kit*** 50 each of pieces denoted (Exception: CP116-R50-ND has 100 pieces), 350 total pieces Plastic box and label card included **$13.95**

‡ **FP-KIT-ND** ***Digi-Key® FP-301 Series Kit*** 50 each of pieces denoted (Exception: FP116-R50-ND has 100 pieces), 350 total pieces. Black. Plastic box and label card included..**$14.95**

† **VFP-KIT-ND** ***Digi-Key® VFP-876 Series Kit*** 50 each of pieces denoted (Exception: VFP116-R50-ND has 100 pieces), 350 total pieces. Plastic box and label card included..**$15.95**

DABURN Shrinkable Tubing, Polyolefin: Black

The most widely used, general purpose heat shrinkable tubing. An irradiated flexible, flame-retardant polyolefin tubing with a wide scope of applications. These include: harnessing, wire bundling, strain reliefs, or any application where components or cables must be insulated or packaged. • UL E-38155 • CSA LR-31929 • MIL-I-23053/5A • MSFC-276B • AMS 3636B

Operating Temperature: –55°C to +135°C. **Shrinkage Ratio:** To 50% of supplied diameter at 121°C. **Electrical Properties:** Dielectric Strength: 1300 V/mil (512 kV/cm). Volume Resistivity: 10^{15} ohm-cm. **Physical Properties:** Tensile Strength: 2500 PSI, nominal (176 kg/cm^2). Ultimate Elongation: 400% nominal.

DABURN Shrink Tubing

Digi-Key®
Assortment Kit
Contains the following:
5 ft./W181-ND 5 ft./W184-ND
5 ft./W182-ND 5 ft./W185-ND
5 ft./W183-ND 5 ft./W186-ND
STA-KIT-ND.......**$10.95**

Min. Supp I.D. In. (mm)	Maximum Recov. I.D. In. (mm)	Nom. Recov. Wall Thick. In. (mm)	Digi-Key Part No.	(NOTE: "X" in Digi-Key Part No. Represents No. of Feet) Price Per Length 5'	25'	50'	100'	200'	500'	1,000'
.06 (1.60)	.03 (.78)	.017 (.43)	W181-X-ND	2.25	10.05	18.00	32.40	51.60	114.00	198.37
.09 (2.36)	.05 (1.17)	.020 (.50)	W182-X-ND	2.48	11.06	19.80	35.64	56.76	125.40	209.16
.13 (3.18)	.06 (1.58)	.020 (.50)	W183-X-ND	2.65	11.85	21.23	38.21	76.06	134.43	223.27
.19 (4.75)	.09 (2.36)	.020 (.50)	W184-X-ND	3.14	14.03	25.13	45.23	72.03	159.13	265.60
.25 (6.35)	.13 (3.18)	.025 (.63)	W185-X-ND	3.94	17.59	31.50	56.70	90.30	199.50	—
.38 (9.53)	.19 (4.75)	.025 (.63)	W186-X-ND	4.35	19.43	34.80	62.64	95.03	—	—
.50 (12.7)	.25 (6.35)	.025 (.63)	W187-X-ND	4.99	22.28	39.90	71.82	108.36	—	—
.75 (19.1)	.38 (9.53)	.030 (.76)	W188-X-ND	6.86	30.65	54.90	98.82	146.20	—	—
1.00 (25.4)	.50 (12.70)	.035 (.88)	W189-X-ND	9.80	43.76	78.38	130.50	—	—	—
3.00 (76.2)	1.50 (38.10)	.050 (1.27)	W192-X-ND	41.30	185.85	321.75	—	—	—	—
4.0 (101.6)	2.00 (50.80)	.055 (1.40)	W193-X-ND	51.00	229.50	420.17	—	—	—	—

DABURN Irradiated Polyolefin Heat Shrink

DAFLEX SH277 shrinkable irradiated polyolefin tubing is flame retardant and will withstand up to 300°C (572°F) for short durations and can be hot stamped.

Specifications: • **Shrink Ratio**: 4:1 • **Longitudinal Shrinkage**: 10% maximum • **Shrink Temperature**: 120°C (250°F) • **Continuous Operation Temperature**: -55°C to +135°C • Meets or exceeds MIL-I-23053/5 Class 1 and 3.

Descrip.	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nom. Recov. Wall Thickness Inch (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
BLK 1" x 4'	1.0 (25.4)	.26 (6.5)	.060 (1.5)	W203-ND	59.28	79.04	177.84	355.68	642.20
BLK 2" x 4'	2.0 (50.8)	.50 (12.7)	.060 (1.5)	W204-ND	87.00	116.00	261.00	522.00	942.50

DABURN Polyolefin Heat Shrink

DAFLEX SM278 is a flexible, large ratio, heat shrinkable tubing with a meltable adhesive liner. As the outer wall shrinks, the inner adhesive liner melts and flows. When cooled, it offers protection for a variety of electrical applications as well as "sealed-in" protection from chemicals and oils.

Specifications: • **Shrink Ratio**: 4:1 • **Longitudinal Shrinkage**: 10% maximum • **Shrink Temperature**: 120°C (250°F) • **Continuous Operation Temperature**: -55°C to +135°C • Meets or exceeds MIL-I-23053/4 Class 3 • UL VW-1, CSA OFT (outer wall only)

Description	Min. Supp. I.D. In. (mm)	Max. Recov. I.D. In. (mm)	Nom. Recov'd Wall Thick. In. (mm)	Digi-Key Part No.	(NOTE: "X" in Digi-Key Part No. Represents No. of Feet) Price Per Length 5'	25'	50'	100'	200'
Dual Wall 3/16" BLK	.16 (4.0)	.04 (1.0)	.035 (.9)	W207-X-ND	9.25	39.54	67.30	114.41	212.56
Dual Wall 5/16" BLK	2.0 (50.8)	.50 (12.7)	.035 (.9)	W208-X-ND	15.53	66.36	112.95	178.35	—

Description	Min. Supplied I.D. Inch (mm)	Max. Recovery I.D. Inch (mm)	Nom. Recov. Wall Thickness Inch (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
Dual Wall 1/2" BLK	.47 (12.0)	.12 (3.0)	.051 (1.3)	W206-ND	11.74	22.30	52.81	119.71	231.60
Dual Wall 3/4" BLK	.63 (16.0)	.16 (4.0)	.062 (1.6)	W209-ND	13.96	26.52	62.82	142.39	275.55
Dual Wall 1" BLK	.94 (24.0)	.24 (6.0)	.082 (2.1)	W205-ND	22.46	42.68	101.09	229.13	443.40
Dual Wall 1 1/4" BLK	1.26 (32.0)	.31 (8.0)	.091 (2.3)	W210-ND	27.88	52.97	125.46	284.38	550.25

DABURN Butyl Rubber Shrink Tape

DAFLEX ST250 cold shrinking Stretch-N-Seal tape requires no heat to provide a secure covering where the size and/or shape of an object does not permit the use of shrinkable tubing. Simply remove 2" to 3" of tape from the roll, remove the liner, stretch tape to 50% of the supplied width and wrap it spirally around the object, with 50% overlap. In minutes the tape will react with itself to form a mass which will provide protection from moisture, most chemicals, over 1KV per mil. **DAFLEX ST250** can be removed easily without leaving any residue since the tape does not use a mastic or adhesive liner. Shelf life is over 5 years. It is helpful for covering, sealing, splicing, holding bundles, joining and repair applications.

Specifications: • **Operating Temperature:** -40°C to +130°C • UL Approved for 80°C

Description	Nominal Width Inch (mm)	Nominal Thickness Inch (mm)	Roll Length Feet	Digi-Key Part No.	Pricing 1	5	10
Black 1"	1.0 (25.4)	.015 (0.38)	15	W211-ND	8.50	38.25	71.29
White 1"	1.0 (25.4)	.015 (0.38)	15	W212-ND	8.50	38.25	71.29
Black 1"	1.0 (25.4)	.015 (0.38)	8	W213-ND	6.50	29.25	53.80
Black .75"	.75 (19.05)	.015 (0.38)	30	W214-ND	16.20	72.90	142.88

Qualtek ELECTRONICS CORP. AC Line Cords

- **Temperature Rating:** +60°C
- **Volt Rating:** 125V/AC.
- **Small Appliance Line Cord:** NEMA 1-15 P Polarized Plug
- **Male Plug Power Cord:** NEMA 5-15 P Plug
- **Detachable Power Cord:** NEMA 5-15 P Plug, IEC 320 Connector

SPT-1: All thermoplastic, parallel-jacketed, with or without third conductor for grounding purposes only. Light duty cord for pendant or portable use in damp locations. 300V.

SVT: Two or three-conductor, all plastic construction with or without third conductor for grounding purposes only. 300V, +60° C.

SJT: Junior hard service thermoplastic or rubber-insulated conductors with overall thermoplastic jacket. 300V, +60°C to +105°C

Fig. 1

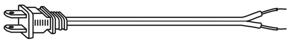


Fig. 2

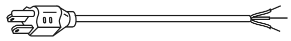


Fig. 3

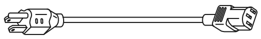


Fig. 4

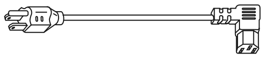


Fig. 5

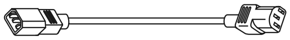


Fig. 6

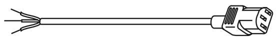


Fig. 7

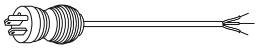


Fig. 8

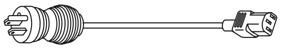


Fig. 9

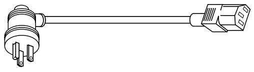


Fig. 10

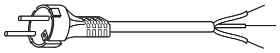


Fig. 11

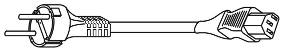


Fig. 12

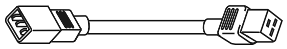


Fig. 13

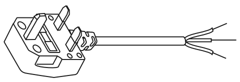


Fig. 14

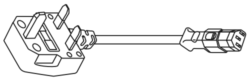
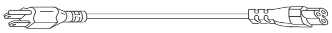


Fig. 15 *NEW!*



Description	Fig.	Length Feet (Meter)	Cord/Plug Color	AWG	Rating Amps @ 125V	Cord Type	Digi-Key Part No.	Price Each				Qualtek Part No.
								1	10	100	250	
Small Appliance Line Cord UL Listed	1	6'0" (1.83)	Brown/Brown	18/2	10	SPT-1	Q100-ND	1.58	1.43	1.15	.97	221001-03
		6'0" (1.83)	White/White	18/2	10	SPT-1	Q101-ND	2.29	2.08	1.67	1.41	221001-08
		6'0" (1.83)	Black/Black	18/2	10	SPT-1	Q114-ND	1.61	1.46	1.17	.99	221001-01
		9'0" (2.74)	Black/Black	18/2	10	SPT-1	Q121-ND	1.77	1.60	1.29	1.09	221002-01
Male Plug Power Cord UL Listed CSA Certified CEE Color Code	2	6'7" (2.01)	Black/Black	18/3	10	SVT	Q106-ND	3.10	2.80	2.25	1.90	311007-01
		9'10" (3.00)	Black/Black	18/3	10	SVT	Q107-ND	3.35	3.03	2.44	2.06	311010-01
		6'7" (2.01)	Black/Black	18/3	10	SJT	Q108-ND	2.98	2.69	2.16	1.83	311013-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q109-ND	4.99	4.51	3.63	3.06	311016-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q110-ND	3.21	2.91	2.34	1.98	311019-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q111-ND	5.63	5.09	4.09	3.46	311022-01
		6'7" (2.01)	Black/Black	14/3	15	SJT	Q112-ND	3.96	3.58	2.88	2.43	311024-01
		9'10" (3.00)	Black/Black	14/3	15	SJT	Q113-ND	4.86	4.39	3.53	2.98	311027-01
N. Amer. Color Code	2	8'0" (2.44)	Gray/Gray	18/3	10	SVT	Q122-ND	4.06	3.67	2.95	2.49	211012-06
		8'0" (2.44)	Gray/Gray	18/3	10	SJT	Q123-ND	3.26	2.95	2.37	2.01	211018-06
Detachable Power Cord UL Listed CSA Certified CEE Color Code	3	6'7" (2.01)	Black/Black	18/3	10	SJT	Q102-ND	3.37	3.05	2.45	2.07	312007-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q103-ND	6.67	6.03	4.85	4.09	312010-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q115-ND	3.92	3.54	2.85	2.41	312011-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q116-ND	4.88	4.41	3.55	3.00	312014-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q120-ND†	10.11	9.13	7.34	6.20	312040-01
		7'6" (2.29)	Black/Black	16/3	13	SJT	Q124-ND	4.23	3.83	3.08	2.60	212013-01
		7'6" (2.29)	Black/Black	18/3	10	SVT	Q125-ND	2.64	2.39	1.92	1.63	312003-01
		7'6" (2.29)	Black/Black	18/3	10	SVT	Q126-ND*	3.67	3.32	2.67	2.25	312021-01
	4	6'7" (2.01)	Black/Black	18/3	10	SJT	Q104-ND	5.85	5.29	4.25	3.59	313006-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q117-ND	6.23	5.64	4.53	3.83	313010-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q105-ND	4.50	4.07	3.27	2.76	313009-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q118-ND	7.66	6.92	5.56	4.70	313014-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q119-ND†	10.14	9.16	7.36	6.22	313026-01
	5	3'3" (.99)	Black/Black	18/3	10	SVT	Q127-ND	2.98	2.69	2.16	1.83	318002-01
		3'3" (.99)	Black/Black	18/3	10	SJT	Q128-ND	2.73	2.47	1.99	1.68	318005-01
	12	9'10" (3.00)	Black/Black	14/3	15	SJT	Q268-ND	14.13	12.77	10.26	8.67	331010-01
	6	9'10" (3.00)	Black/Black	18/3	10	SJT	Q129-ND	3.59	3.25	2.61	2.21	315008-01
	15	6'0" (1.83)	Black/Black	18/3	10	SVT	Q139-ND *NEW!*	2.41	2.19	1.76	1.49	350049-LD01
		10'0" (3.50)	Black/Black	18/3	10	SVT	Q140-ND *NEW!*	3.28	2.97	2.39	2.02	350050-LD01
Hospital Grade UL Listed CSA Certified N. Amer. Color Code	7	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q130-ND	5.53	5.00	4.02	3.39	232003-06
		10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q131-ND	11.05	9.98	8.02	6.77	232011-06
	8	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q132-ND	6.20	5.60	4.50	3.80	233003-06
		10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q133-ND	6.20	5.60	4.50	3.80	233009-06
	9	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q263-ND	13.51	12.20	9.81	8.28	243003-06

† Shielded with Mylar Foil　　* Temperature Rating: +105° C VW-1

Description	Fig.	Length Feet (Meter)	Color	Cordage	Conductors (MM2)	Rating Amps @ 250V	Digi-Key Part No.	Price Each				Qualtek Part No.
								1	10	100	250	
International Power Cords												
Continental Europe	10	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q134-ND	5.36	4.85	3.90	3.29	363012-D01
	11	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q135-ND	6.18	5.58	4.49	3.79	364002-D01
	5	8'2" (2.5)	Black	H05VV-F/SJT	3 X 1.00	10	Q136-ND	5.36	4.85	3.90	3.29	319004-T01
United Kingdom	13	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q137-ND	10.85	9.80	7.88	6.65	369003-E01
	14	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q138-ND	11.65	10.53	8.46	7.15	370001-E01

Qualtek ELECTRONICS CORP.

AC Receptacles

Approvals: 701W-15/XX and 716W-15/XX: IEC 320. **736W-B-101, -102:** UL, CSA, VDE, FIMKO, DEMKO, NEMKO, SEMKO. **738W-CX2-01:** UL, CSA. **743W-00/0X:** UL, CSA, VDE, SEV, DEMKO, NEMKO, SEMKO, FIMKO, CB. **744W-00/0X and 745W-XX/YY:** UL, CSA, VDE, SEV, SEMKO, DEMKO, FIMKO, NEMKO **770W-X2/03, /04, /05:** UL, CSA, VDE, SEV, SETI, DEMKO, NEMKO, SEMKO, ÖVE, CB. **770W-X2/09, /11, /12:** UL, CSA, VDE, SEV, FIMKO, DEMKO, NEMKO, SEMKO, ÖVE. **770W-X2/10:** UL, CSA, VDE, NEMKO. **771W-X2/01, /02:** ULR, CSA, VDE, SEV, DEMKO, NEMKO, SEMKO. **761-18/xxx and 762-18/xxx:** UL, CSA, VDE. **763-00/xxx and 763-00/xxx:** UL, CSA, VDE. **770W-00-01:** UL, CSA, VDE, SEMKO, DEMKO, NEMKO, SETI. **771W-xxx/01:** UL, CSA, VDE, NEMKO.

Fig. 1

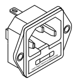


Fig. 2

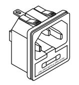
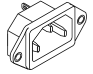


Fig. 3



Front/Rear Mount

Fig. 4

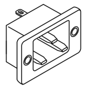


Fig. 5

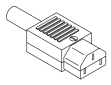


Fig. 6

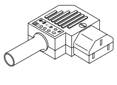


Fig. 7

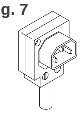


Fig. 8

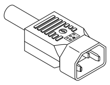


Fig. 9

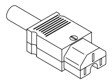
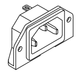
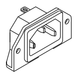


Fig. 10



7mm Terminal Pitch

Fig. 11



9mm Terminal Pitch

Fig. 12

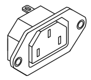


Fig. 13

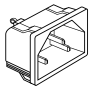


Fig. 14

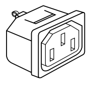


Fig. 15

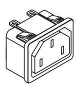


Fig. 16

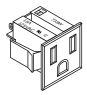


Fig. 17

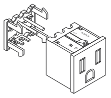


Fig. 18

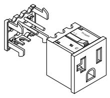


Fig. 19

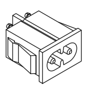


Fig. 20

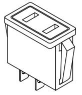


Fig. 21

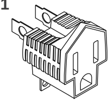


Fig. 22

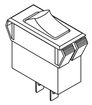


Fig. 23

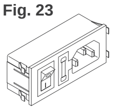


Fig. 24

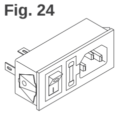


Fig. 25

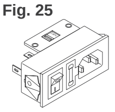


Fig. 26

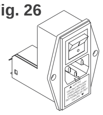


Fig. 27

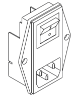


Fig. 28

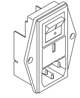


Fig. 29

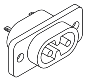


Fig. 30

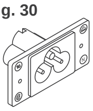


Fig. 31

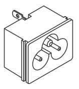


Fig. 32

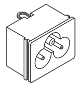


Fig. 33

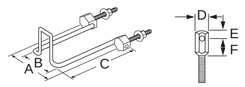


Fig.	Description	Mount Type	Panel Cutout H x W(mm)	Contact Type	Digi-Key Part No.	Price Each			Qualtek Part No.
						1	10	100	
	Power Inlets with Single 5x20mm Fuseholder								
1	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	Solder Tab	Q201-ND	2.42	2.19	1.76	719W-00/02
	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	.187" (4.75mm) Fast-On	Q202-ND	2.42	2.19	1.76	719W-00/03
	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	.248" (6.35mm) Fast-On	Q203-ND	2.42	2.19	1.76	719W-00/04
2	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	Solder Tab	Q204-ND	2.42	2.19	1.76	723W-X2/02
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	.187" (4.75mm) Fast-On	Q205-ND	2.42	2.19	1.76	723W-X2/03
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	.248" (6.35mm) Fast-On	Q206-ND	2.42	2.19	1.76	723W-X2/04
	AC Power Inlets								
3	AC Receptacle, Straight, Male	Screw	—	Solder Tab	Q210-ND	.64	.58	.47	703W-00/02
	AC Receptacle, Straight, Male	Screw	—	.187" (4.75mm) Fast-On	Q211-ND	.64	.58	.47	703W-00/03
	AC Receptacle, Straight, Male	Screw	—	.248" (6.35mm) Fast-On	Q212-ND	.74	.67	.54	703W-00/04
4	Power Receptacle	Screw	24.5 x 32.5	.248" (6.3mm) Quick Connect	Q235-ND	.79	.72	.58	744W-00/04
	AC Power Plug Assemblies								
5	In-Line Plug, Straight, Female	Cord	—	Screw Terminals	Q213-ND	3.93	3.55	2.86	704-00/00
6	In-Line Plug, Right Angle, Female	Cord	—	Screw Terminals	Q214-ND	5.08	4.59	3.69	705-00/00
7	In-Line Plug, Right Angle, Male	Cord	—	Screw Terminals	Q215-ND	7.11	6.43	5.17	711-00/00
8	In-Line Plug, Straight, Male	Cord	—	Screw Terminals	Q216-ND	7.11	6.43	5.17	712-00/00
9	In-Line Plug, Straight, Female	Cord	—	Screw Terminals	Q217-ND	4.45	4.03	3.24	709-00/00
	Angled Inlet PCB Mount								
10	AC Receptacle, Right Angle, Male	Screw	22.8 x 30.8	Round PC Terminals	Q218-ND	.74	.67	.54	703W-00/52
	AC Receptacle, Right Angle, Male	Screw	22.8 x 30.8	Flat PC Terminals	Q219-ND	.69	.63	.51	703W-00/53
11	AC Receptacle, Right Angle, Male	Screw	22.8 x 30.8	Flat PC Terminals	Q220-ND	.69	.63	.51	703W-00/54
	AC Power Inlets IEC 320								
12	AC Receptacle, Straight, Female	Screw	24.2 x 32.4	Solder Tab	Q221-ND	.64	.58	.47	710W-00/01
	AC Receptacle, Straight, Female	Screw	24.2 x 32.4	.187" (4.75mm) Fast-On	Q222-ND	.64	.58	.47	710W-00/02
	AC Receptacle, Straight, Female	Screw	24.2 x 32.4	.248" (6.35mm) Fast-On	Q223-ND	.74	.67	.54	710W-00/03
13	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27 x 20.5	Solder Tab	Q207-ND	.69	.63	.51	701W-X2/02
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27 x 20.5	.187" (4.75mm) Fast-On	Q208-ND	.69	.63	.51	701W-X2/03
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27 x 20.5	.248" (6.35mm) Fast-On	Q209-ND	.69	.63	.51	701W-X2/04
13	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	Solder Tab	Q256-ND	.59	.54	.43	701W-15/21
	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	.187" (4.7mm) Fast-On/Solder Tab	Q257-ND	.59	.54	.43	701W-15/26
	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	.250" (6.35mm) Fast-On	Q258-ND	.64	.58	.47	701W-15/31
14	Power Outlet, .059" (1.5mm), Female	Snap-In	25.2 x 32.8	Solder Tab	Q259-ND	.79	.72	.58	716W-15/05
	Power Outlet, .059" (1.5mm), Female	Snap-In	25.2 x 32.8	.187" (4.7mm) Fast-On/Solder Tab	Q260-ND	.79	.72	.58	716W-15/10
	Power Outlet, .059" (1.5mm), Female	Snap-In	25.2 x 32.8	.250" (6.35mm) Fast-On	Q261-ND	.84	.76	.61	716W-15/15
15	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	25.2 x 32.8	Solder Tab	Q224-ND	.79	.72	.58	716W-X2/01
	AC Recept. Straight, Female, .031" (0.8mm)	Snap-In	25.2 x 32.8	.187" (4.75mm) Fast-On	Q225-ND	.69	.63	.51	716W-X2/02
	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	25.2 x 32.8	.248" (6.35mm) Fast-On	Q226-ND	.69	.63	.51	716W-X2/03
	NEMA 5-15R Power Outlets								
16	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	22.3 x 24.6	.187" (4.75mm) Fast-On	Q227-ND	.59	.54	.43	738W-X2/03
17	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	24.6 x 24.6	IDC Crimp Terminals	Q228-ND	.79	.72	.58	739W-X2/03
	NEMA 5-20P Power Outlets								
18	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	24.5 x 24.5	IDC Crimp Terminals	Q282-ND	1.23	1.12	.90	739W-X2/20
	Power Receptacles								
19	Power Receptacle	Screw	12.4 x 21.0	Solder Tab	Q269-ND	.59	.54	.43	770W-X2/03
	Power Receptacle	Panel	12.4 x 21.0	Right Angle, PCB Pins	Q273-ND	.49	.45	.36	770W-X2/10
	Power Receptacle	Snap-In	12.5 x 24.5	PCB Pins	Q277-ND	.79	.72	.58	771W-X2/02
20	Power Receptacle, 2 Con.	Snap-In	12.4 x 22.1	4.8mm Tab	Q281-ND	.49	.45	.36	738W-CX2-01
	AC Adapter								
21	AC Adapter 3 Prong/2 Prong	—	—	Wall Plug	Q280-ND	.74	.67	.54	738W-E-01
	Circuit Breaker Switch								
22	Illuminated, Black Body w/Red Actuator, 15 Amp	Panel	14.0 x 28.5	Solder Tab	Q278-ND	1.62	1.46	1.18	736W-B-101
22	Non-illuminated, Black Body w/Red Actuator, 15 Amp	Panel	14.0 x 28.5	Solder Tab	Q279-ND	1.37	1.24	1.00	736W-B-102
	Multi-Function Modules								
23	Male, Plastic Housing, SPST, Sgl. Fuse 5x20	Snap-In	66.04 x 27.0	Solder Tab	Q300-ND	7.85	5.61	4.66	761-18/003
	Male, Plastic Housing, DPST, Sgl. Fuse 5x20	Snap-In	66.04 x 26.92	Solder Tab	Q301-ND	10.83	7.74	6.43	761-18/004
24	Male, Metal Housing, SPST, Single Fuse 5x20	Snap-In	66.04 x 27.0	.250" Fast-On	Q302-ND	10.45	7.47	6.20	762-18/002
	Male, Metal Housing, DPST, Single Fuse 5x20	Snap-In	66.04 x 27.0	.250" Fast-On	Q303-ND	16.34	11.67	9.69	762-18/003
25	Male, Metal Housing, SPST, Single Fuse 5x20	Snap-In	66.04 x 27.0	.250" Fast-On	Q304-ND	16.34	11.67	9.69	762-18/004
	Male, Metal Housing, DPST, Single Fuse 5x20	Snap-In	66.04 x 27.0	.250" Fast-On	Q305-ND	20.69	14.78	12.27	762-18/005
26	Male, Plastic Housing, DPST, Double + Fuse	Screw	58.93 x 27.51	Solder Tab	Q306-ND	8.49	6.07	5.04	763-00/001
27	Male, Plastic Housing, DPST, Double 5x20	Screw	72.39 x 27.94	Solder Tab	Q307-ND	9.77	6.98	5.80	764-00/002
28	Male, Plastic Housing, DPST, Double 5x20	Screw	72.39 x 27.94	Solder Tab	Q308-ND	11.26	8.05	6.68	764-00/003
	Low Power Inlets								
29	Male, Thermoplastic Housing	Screw	21 x 12.4	Solder Tab	Q309-ND	.74	.67	.54	770W-00/01
30	Male, Thermoplastic Housing	Screw	24.5 x 12.5	Solder Tab	Q310-ND	1.23	1.12	.90	771W-AX2/01
31	Male, Thermoplastic Housing	Panel	24.5 x 12.5	Solder Tab	Q311-ND	1.23	1.12	.90	771W-BX2/01
32	Male, Thermoplastic Housing	Panel	24.5 x 12.5	Solder Tab	Q312-ND	1.23	1.12	.90	771W-CX2/01

* **Note:** Fig. 3 - Front mount 19.8 x 27.4 and rear mount 22.8 x 30.0.

Fig.	Dimensions - Inch (mm)						Digi-Key Part No.	Price Each				Qualtek Part No.
	A	B	C	D	E	F		1	25	50	100	
	Power Plug Retainer Clips											
33	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.250 (6.35)	.125 (3.18)	.196 (4.98)	Q264-ND	2.44	2.06	1.86	1.63	730B-00/00
	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.218 (5.54)	.125 (3.18)	.196 (4.98)	Q265-ND	3.10	2.60	2.36	2.06	732B-00/00
	1.80 (45.72)	1.11 (28.19)	1.32 (33.53)	.250 (6.35)	.125 (3.18)	.196 (4.98)	Q266-ND	2.44	2.06	1.86	1.63	730-00/05
	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.250 (6.35)	.125 (3.18)	.352 (8.94)	Q267-ND	2.65	2.23	2.02	1.76	731B-00/00

Panasonic Micro Speakers

Features: • Thin and lightweight design • High efficiency and high fidelity sound • High reliability
Recommended Applications: • Compact AV equipment • Electronic office equipment • Information and communication equipment

Fig. 1

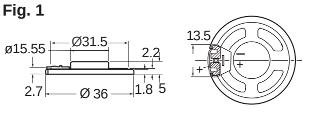


Fig. 2

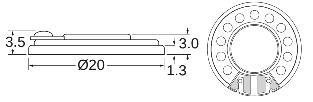


Fig. 3

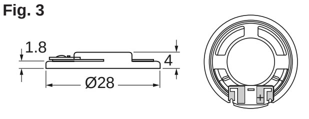


Fig. 4

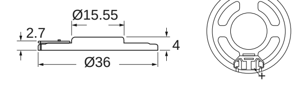


Fig.	Outer Dims. (mm.)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	36	0.20	8	325~3500	74	8	P9604-ND	6.88	6.19	5.50	EAS-3P128A
2	20	0.2	7	Full Range	77	2.5	P10173-ND	4.29	3.82	3.17	EAS-2P113D
3	28	0.3	8	Full Range	81	5	P10174-ND	6.01	5.34	4.44	EAS-2P104H
4	36	0.5	8	Full Range	84	8	P10175-ND	5.38	4.79	3.97	EAS-3P127A

Oval Magnetic Shielded Speakers

Features: • Low magnetic leakage flux • High tone quality **Recommended Applications:** • AV equipment

Fig. 1

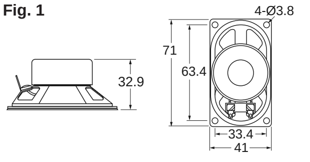


Fig. 2

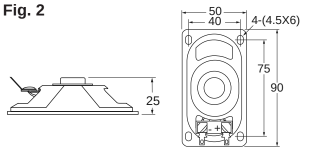


Fig. 3

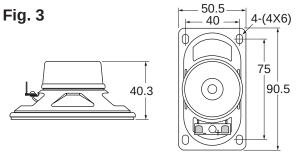


Fig. 4

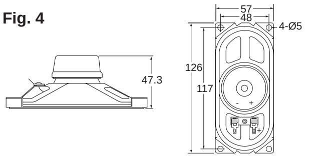
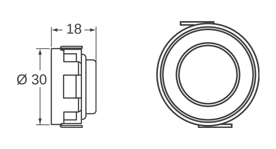


Fig.	Outer Dims. (mm.)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	70 x 40	1.5	16	Full Range	90	107	P10184-ND	3.63	3.23	2.68	EAS-G7D504A2
2	90 x 50	1.5	16	Full Range	87	45	P10185-ND	3.23	2.87	2.38	EAS-G9D550B2
3	90 x 50	3	8	Full Range	88.5	135	P10186-ND	4.54	4.04	3.35	EAS-G9D541A2
4	120 x 60	3	8	Full Range	93.5	180	P10187-ND	6.05	5.38	4.47	EAS-G12D531E2

NEW! Hi-Fi Mini Speaker

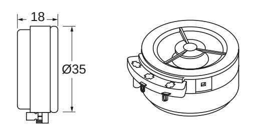


Features:
- Compact • High Power

Recommended Applications:
- Notebook type PC • DVD player • Game machine
- PDA • LCD monitor

Outer Dims. (mm.)	Input (W) Rated (Max)	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
30	3	3.5	fo to 20 k	76	21	P12055-ND	5.45	4.84	4.02	EAS-3P133B6

Balanced Dome Tweeter



Features:
- High efficiency • High quality sound • Compact and lightweight

Recommended Applications:
- Audio components • TV • Car speaker system

Outer Dims. (mm.)	Input (W) Rated (Max)	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
35	30	6	8kHz~20kHz	80	83	P10183-ND	19.91	17.70	14.69	EAS-13KH11HB4-A

Hi-Fi Micro Speakers

Features:
- Discrete edge surround, wide range reproduction • Slim design • Low magnetic leakage flux design

Recommended Applications:
- Multimedia equipment

Fig. 1

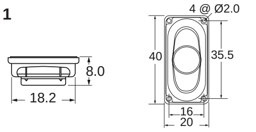


Fig. 2

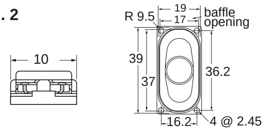


Fig. 3

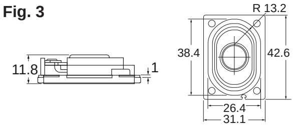


Fig.	Outer Dims. (mm.)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	40 x 20	0.5	8	Full Range	78	8	P9611-ND	8.69	7.73	6.42	EAS-4D06C
2	40 x 20	1	8	Full Range	76	7	P9612-ND	10.03	8.92	7.40	EAS-4D05A0
3	40 x 30	1	16	Full Range	73	12	P9613-ND	7.21	6.41	5.32	EAS-4D02C0

Small Size General Purpose Speakers

Features:
- Wide frequency range • Apply to wide variety of needs
- Wide range of product selection

Recommended Applications:
- CD-radio-cassette recorders • Information and communication equipment

Fig. 1

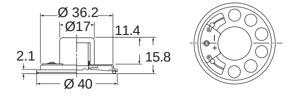


Fig. 2

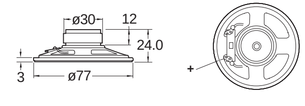


Fig. 3

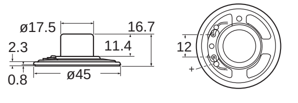


Fig. 4

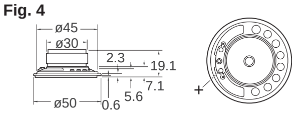


Fig. 5

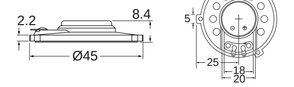


Fig. 6

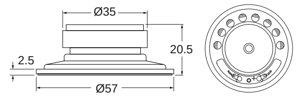


Fig. 7

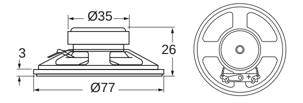
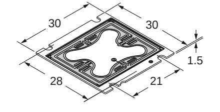


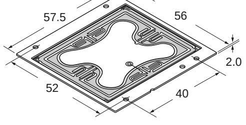
Fig.	Outer Dims. (mm.)	Input (W) Rated	Input (W) Max.	Imped-ance (Ω)	Frequency Range (Hz)	Sound Pressure Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	40	0.10	—	8	530~3000	92	25	P9605-ND	5.61	5.05	4.49	EAS-4P15SA
2	80	0.63	—	8	185~4000	93	68	P9607-ND	4.44	4.00	3.56	EAS-8P29SG
3	45	0.10	—	8	390~3000	93	24	P9608-ND	4.50	4.05	3.60	EAS-45P30S
4	50	0.16	—	8	350~3000	93	57	P9610-ND	3.76	3.39	3.01	EAS-5P13S
5	45	0.25	—	8	Full Range	77	13	P10176-ND	8.58	7.63	6.34	EAS-45P104S
6	57	0.5	—	8	Full Range	92	75	P10177-ND	7.21	6.41	5.32	EAS-6P22S
7	77	0.63	—	25	Full Range	95	83	P10178-ND	6.87	6.11	5.07	EAS-8P36S

Card Type Speakers

WM-R30B



WM-R57A



Ultra-thin and ultra-light, these new card type speakers deliver a wide frequency range of high-quality sound. These amazing new Card Type Speakers from Panasonic are only 1/5th the thickness of dynamic speakers (comparing the WM-R57A with dynamic speakers which have the same dimensions). Based on newly developed, original technology, they deliver top-quality, low-distortion reproduction across a wide frequency sound. So small and light, they are ideal for applications that range from notebook PCs, PDAs, and other mobile communications to AV equipment and home electronics.

Key Features: • Ultra-thin, ultra-light design using a piezo ceramic diaphragm. • Outstanding broad-spectrum audio reproduction made possible by the two-way mechanical structure of the divided diaphragm, combining one large speaker for low-frequency sounds with four small speakers for high-frequency sounds. • Newly developed double construction damper and high polymer material minimize distortion, ensuring superior reproduction. • Because no coil or magnet is used, there is no leakage of electromagnetic radiation to interfere with magnetic media. • The vibrating membrane is covered completely with a high polymer coating, to protect against dampness, dust, and corrosion.

Specifications: • **Storage Temperature:** -40°C to 70°C • **Operating Temperature:** -30°C to 60°C

Dimensions (H x W) (mm)	Depth (mm)	Frequency Response (Hz)	S.P.L at 3V RMS†	Distance of Mic & Speaker	Max. Input (V RMS)	Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
30.0 x 30.0	1.5	400Hz~100kHz	70dB	0.3 m	7	1.0	P11123-ND	6.32	5.62	4.67	WM-R30B
57.5 x 56.0	2.0	150Hz~100kHz	70dB	0.5 m	7	5.0	P11124-ND	8.57	7.62	6.33	WM-R57A

† ± 5dB average at .4 kHz, .8 kHz, 1.5 kHz, 3 kHz.

Ferrite Magnet Speakers

These low cost ferrite speakers are ideal for general applications such as information and communications equipment, portable audio equipment, and industrial use. Mylar cone versions offer additional protection in moist environments or conditions requiring enhanced weather resistance.

Fig. 1 — Paper Cone or Mylar Cone

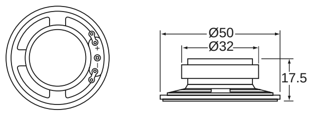


Fig. 2 — Paper Cone

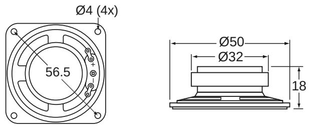


Fig. 3 — Paper Cone or Mylar Cone

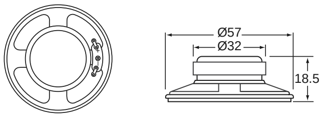


Fig. 4 — Paper Cone

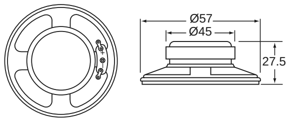


Fig. 5 — Paper Cone or Mylar Cone

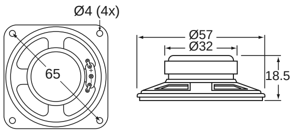


Fig. 6 — Paper Cone or Mylar Cone

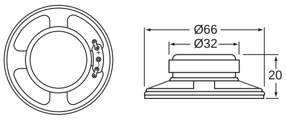


Fig. 7 — Paper Cone

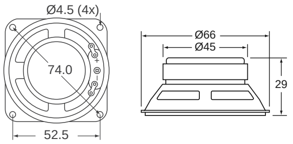


Fig. 8 — Paper Cone

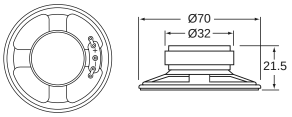


Fig. 9 — Paper Cone or Mylar Cone

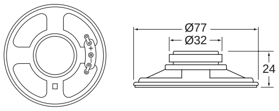


Fig. 10 — Paper Cone

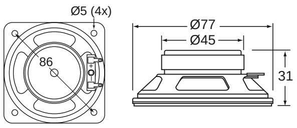


Fig. 11 — Paper Cone

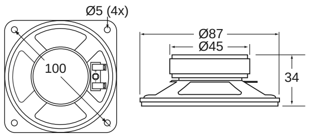


Fig. 12 — Paper Cone

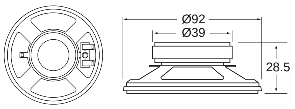


Fig. 13 — Paper Cone

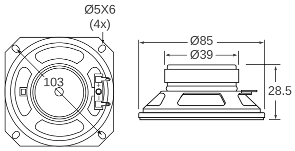


Fig. 14 — Paper Cone or Mylar Cone

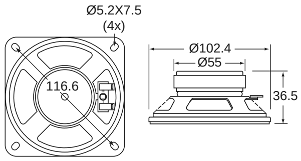


Fig. 15 — Paper Cone

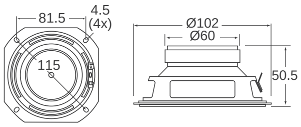


Fig. 16 — Mylar Cone

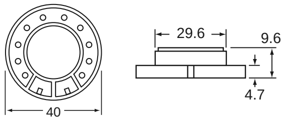


Fig. 17 — Mylar Cone

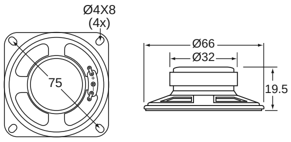


Fig. 18 — Mylar Cone

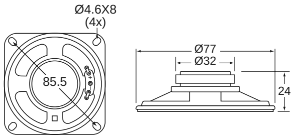


Fig. 19 — Mylar Cone

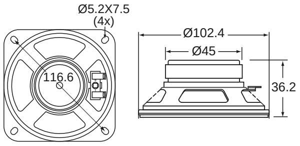


Fig.	Diameter (mm)	Depth (mm)	Speaker Shape	Frame Shape	Impedance (Ω)	Frequency Range (Hz)		Input (W) Norm/Max.		Magnet Weight (oz.)	S.P.L. (dB)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Inc. Part No.
Paper Cone Type																	
1	50	17.5	Round	Round	8	450	5.9K	0.25	0.5	0.58	87	GF0501-ND	2.45	1.96	1.72	1.63	GF0501
2	50	18.0	Round	Square	8	480	7.2K	0.25	0.5	0.58	90	GF0506-ND	2.48	1.98	1.73	1.65	GF0506
3	57	18.5	Round	Round	8	380	8.1K	0.25	0.5	0.58	86	GF0571-ND	2.45	1.96	1.72	1.63	GF0571
4	57	27.5	Round	Round	8	450	20K	3.00	5.0	1.70	92	GF0573-ND	3.35	2.68	2.35	2.23	GF0573
5	57	18.5	Round	Square	8	380	8.1K	0.25	0.5	0.58	86	GF0576-ND	2.48	1.98	1.73	1.65	GF0576
6	66	20.0	Round	Round	8	300	8K	0.30	0.5	0.58	86	GF0661-ND	2.80	2.24	1.96	1.87	GF0661
7	66	29	Round	Square	8	300	20K	3.00	5.0	1.70	90	GF0668-ND	3.67	2.93	2.57	2.44	GF0668
8	70	21.5	Round	Round	8	310	4K	0.50	1.0	0.58	91	GF0701-ND	2.88	2.31	2.02	1.92	GF0701
9	77	24	Round	Round	8	180	10K	1.00	2.0	0.58	92	GF0771-ND	2.88	2.30	2.01	1.92	GF0771
10	77	31	Round	Square	8	250	15K	3.00	5.0	1.70	95	GF0778-ND	3.86	3.09	2.70	2.57	GF0778B
11	87	34	Round	Square	8	290	18K	3.00	5.0	1.70	99	GF0876-ND	4.06	3.25	2.84	2.70	GF0876
12	92	28.5	Round	Round	8	300	13K	2.00	3.0	1.00	93	GF0922-ND	3.74	2.99	2.62	2.49	GF0922
13	92	28.5	Round	Square	8	300	5K	2.00	3.0	1.00	93	GF0927-ND	3.67	2.93	2.57	2.44	GF0927
14	102	36.5	Round	Square	8	145	17K	6.00	10.0	2.60	93	GF1004-ND	5.15	4.12	3.61	3.43	GF1004
15	102	50.5	Round	Square	8	100	10K	20.00	40.0	3.00	90	GF1004H-ND	8.36	6.69	5.85	5.57	GF1004H
Mylar Cone Type (Weather Resistant)																	
16	40	9.6	Round	Round	8	136	2.8K	0.1	0.2	—	110	GF0401M-ND	2.49	1.99	1.74	1.66	GF0401M
1	50	17.5	Round	Round	8	440	5.8K	0.25	0.5	0.58	86	GF0501M-ND	2.96	2.37	2.07	1.97	GF0501M
3	57	18.5	Round	Round	8	480	14K	0.25	0.5	0.58	86	GF0571M-ND	2.96	2.37	2.07	1.97	GF0571M
6	66	20	Round	Round	8	430	10K	0.5	1	0.58	88	GF0661M-ND	3.16	2.53	2.21	2.10	GF0661M
17	66	19.5	Round	Square	8	330	10.1K	0.5	1	0.58	83	GF0666M-ND	3.20	2.56	2.24	2.13	GF0666M
9	77	24	Round	Round	8	280	11K	1	2	0.58	90	GF0771M-ND	3.35	2.68	2.35	2.23	GF0771M
18	77	24	Round	Square	8	360	11K	1	2	0.58	91	GF0776M-ND	3.35	2.68	2.35	2.23	GF0776M
19	102	36.2	Round	Square	8	250	13K	3	5	1.70	93	GF1003M-ND	4.57	3.65	3.20	3.04	GF1003M
14	102	36.5	Round	Square	8	230	14K	6	10	3.00	93	GF1004M-ND	5.62	4.50	3.94	3.75	GF1004M

Alnico Magnet Speakers

These alnico magnet speakers are a good choice when magnet size and weight are a concern.
Mylar cone versions offer additional protection in moist environments or conditions requiring enhanced weather resistance.

Dimensions in mm

Fig. 1 — Paper Cone or Mylar Cone

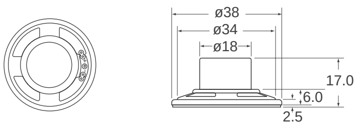


Fig. 2 — Paper Cone

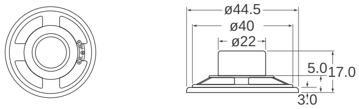


Fig. 3 — Paper Cone or Mylar Cone

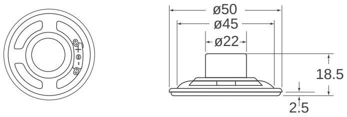


Fig. 4 — Paper Cone or Mylar Cone

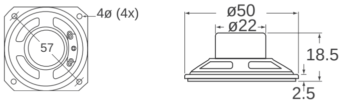


Fig. 5 — Paper Cone or Mylar Cone

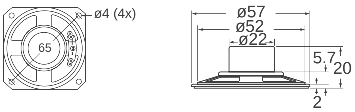


Fig. 6 — Paper Cone or Mylar Cone

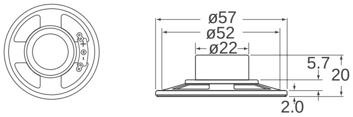


Fig. 7 — Paper Cone or Mylar Cone

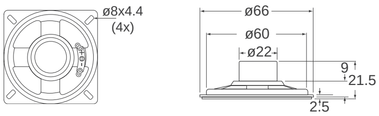


Fig. 8 — Paper Cone or Mylar Cone

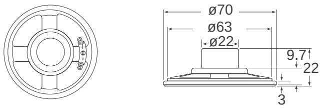


Fig. 9 — Paper Cone

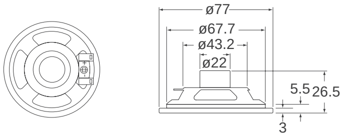


Fig. 10 — Paper Cone

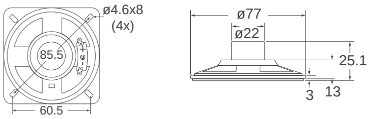


Fig. 11 — Paper Cone or Mylar Cone

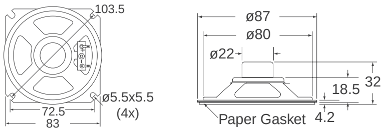


Fig. 12 — Paper Cone

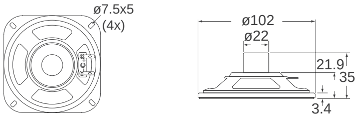


Fig. 13 — Mylar Cone

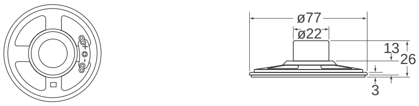


Fig. 14 — Mylar Cone

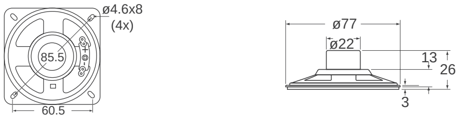


Fig.	Diameter (mm)	Depth (mm)	Speaker Shape	Frame Shape	Impedance (Ω)	Frequency Range	Input (W) Norm/Max.		Magnet Weight (oz.)	S.P.L. (dB)	Digi-Key Part No.	Price Each				CUI Inc. Part No.
												1	10	50	100	
Paper Cone Type																
1	38	17	Round	Round	8	800~8.5K	0.1	0.3	0.35	80	102-1171-ND	3.43	2.74	2.40	2.28	GA0381
2	45	17	Round	Round	8	500~9K	0.2	0.5	0.35	80	102-1172-ND	3.35	2.68	2.35	2.23	GA0451
3	50	18.5	Round	Round	8	430~4K	0.25	0.5	0.35	89	102-1173-ND	3.25	2.60	2.28	2.17	GA0501
4	50	18.5	Round	Square	8	430~4K	0.25	0.5	0.35	88	102-1174-ND	3.30	2.64	2.31	2.20	GA0506
5	57	20	Round	Square	8	360~7K	0.25	0.5	0.35	83	102-1175-ND	3.30	2.64	2.31	2.20	GA0576
6	57	20	Round	Round	8	400~4K	0.25	0.5	0.35	88	102-1176-ND	3.30	2.64	2.31	2.20	GA0571
7	66	21.5	Round	Square	8	320~7K	0.5	1	0.35	86	102-1177-ND	3.45	2.76	2.42	2.30	GA0666
8	70	22	Round	Round	8	320~6.5K	0.5	1	0.35	89	102-1178-ND	3.70	2.96	2.59	2.47	GA0701
9	77	26.5	Round	Round	8	240~21K	3	4	0.35	92	102-1179-ND	3.83	3.06	2.68	2.55	GA0771B
10	77	25.1	Round	Square	8	190~7K	1	2	0.35	90	102-1180-ND	3.75	3.00	2.63	2.50	GA0776
11	87	32	Round	Square	8	180~13K	1	2	0.35	90	102-1181-ND	4.10	3.28	2.87	2.73	GA0876
12	100	35	Round	Square	8	200~22K	2	4	0.42	92	102-1182-ND	4.23	3.38	2.96	2.82	GA1006
Mylar Cone Type (Weather Resistant)																
1	38	17	Round	Round	8	700~15K	0.1	0.2	0.35	72	102-1183-ND	3.63	2.90	2.54	2.42	GA0381M
3	50	18.5	Round	Round	8	500~7.8K	0.25	0.5	0.35	85	102-1184-ND	3.45	2.76	2.42	2.30	GA0501M
4	50	18.5	Round	Square	8	500~10K	0.25	0.5	0.35	79	102-1185-ND	3.50	2.80	2.45	2.33	GA0506M
5	57	20	Round	Square	8	500~12K	0.25	0.5	0.35	80	102-1187-ND	3.55	2.84	2.49	2.37	GA0576M
6	57	20	Round	Round	8	450~13K	0.25	0.5	0.35	88	102-1186-ND	3.50	2.80	2.45	2.33	GA0571M
7	66	21.5	Round	Square	8	400~11K	0.5	1	0.35	87	102-1188-ND	3.70	2.96	2.59	2.47	GA0666M
8	70	22	Round	Round	8	330~9K	0.5	1	0.35	91	102-1189-ND	3.98	3.18	2.78	2.65	GA0701M
13	77	26	Round	Round	8	300~22K	1	2	0.35	90	102-1190-ND	3.98	3.18	2.78	2.65	GA0771M
14	77	26	Round	Square	8	320~25K	1	2	0.35	90	102-1191-ND	4.03	3.22	2.82	2.68	GA0776M
11	87	32	Round	Square	8	260~22K	1	2	0.35	85	102-1192-ND	4.30	3.44	3.01	2.87	GA0876M

CUI INC

Notebook Speakers

Features: • Low profile rectangular design • Light weight rugged resin frame • Wide frequency range • Low resonant frequency
Recommended Applications: • Notebook Computers • Portable communication equipment • Multimedia equipment.

Fig. 1

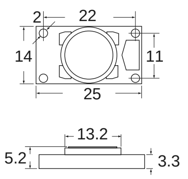


Fig. 2

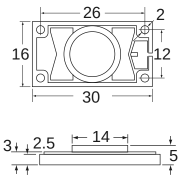


Fig. 3

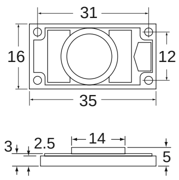


Fig. 4

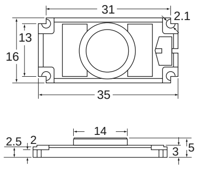


Fig. 5

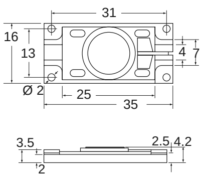


Fig. 6

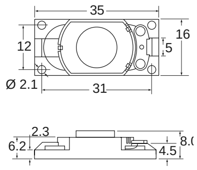


Fig. 7

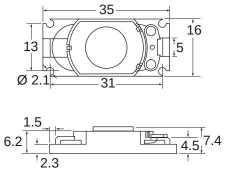


Fig. 8

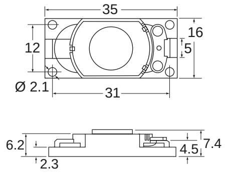


Fig. 9

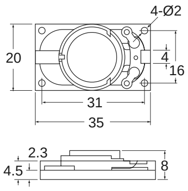


Fig. 10

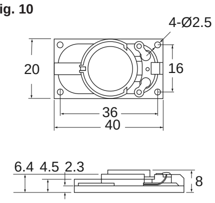


Fig. 11

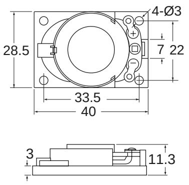


Fig.	Size (mm)	Depth (mm)	Frame Style	Resonant Freq. HZ +/-20%	Freq. Range (HZ)	Impedance Ohms	Power (W) Input NOM	MAX	Magnet Size (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Inc. Part No.
1	14 x 25	5.2	Plastic	750	750 ~ 3.5K	8	1.0	1.5	7.9 x 1.3	GC0251K-ND	3.95	3.16	2.77	2.63	GC0251K
2	16 x 30	5.0	Plastic	500	500 ~ 4K	8	0.5	1.0	7.9 x 1.3	GC0301K-ND	4.05	3.24	2.84	2.70	GC0301K
3	16 x 35	5.0	Plastic	650	650 ~ 20K	8	0.5	1.0	7.9 x 1.3	GC0351M-ND	3.30	2.64	2.31	2.20	GC0351M
4	16 x 35	5.0	Plastic	650	650 ~ 20K	8	0.5	1.0	7.9 x 1.3	GC0351M-3-ND	3.30	2.64	2.31	2.20	GC0351M-3
5	16 x 35	4.2	Plastic	650	650 ~ 4K	8	1.0	1.5	7.9 x 1.0	GC0351N-ND	4.23	3.38	2.96	2.82	GC0351N
6	16 x 35	8.0	Plastic	500	500 ~ 12K	8	1.0	2.0	8.0 x 2.0	GC0351P-ND	4.33	3.46	3.03	2.88	GC0351P
7	16 x 35	7.4	Plastic	630	630 ~ 13K	4	1.0	2.0	8.1 x 1.4	GC0351P-1-ND	4.33	3.46	3.03	2.88	GC0351P-1
8	16 x 35	7.4	Plastic	630	630 ~ 13K	4	1.0	2.0	8.1 x 1.4	GC0351P-3-ND	4.33	3.46	3.03	2.88	GC0351P-3
9	20 x 35	8.0	Plastic	550	550 ~ 11K	8	1.0	1.5	11.0 x 1.5	GC0351K-ND	4.33	3.46	3.03	2.88	GC0351K
10	20 x 40	8.0	Plastic	550	550 ~ 12K	8	1.0	1.5	11.0 x 1.5	GC0401S-ND	4.43	3.54	3.10	2.95	GC0401S
11	28.5 x 40	11.3	Plastic	390	390 ~ 20K	8	1.0	2.0	12.5 x 1.8	GC0401K-ND	4.43	3.54	3.10	2.95	GC0401K

CTS

Speakers

Fig. 1

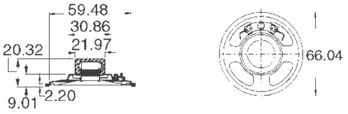


Fig. 2

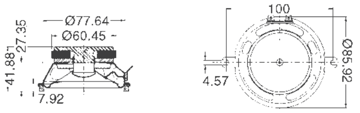


Fig.	Description	Nominal Impedance Ohm ± 15%	Power Rating Watt	Resonance Frequency Hz	Response Range Hz	Nominal Sensitivity* dB ± 2.0 avg	Voice Coil Diameter (mm)	Magnet Size (mm)	Weight (Oz)	Digi-Key Part No	Pricing 1	25	50	CTS Part No.
1	2.5" Round	8	0.5	390 ± 20%	390 ~ 3,000	82.0	12.70	12.96 X 9.98	0.34	10339-ND	16.51	373.06	682.63	400-212-08
2	3.5" Round	10	15	135 ± 15%	135 ~ 22,000	84.0	19.05	60.45 X 25.4 X 7.11	2.94	10340-ND	16.90	381.88	698.75	400-312-10

***** @ 300, 400, 500, & 600 Hz.

Panasonic. Miniature Audio Transducer For General Application

For use in: • burglar alarms • paging systems • smoke detectors • gas detectors • light and radiation detectors • data entry terminals • cash registers • alarm clocks • fish finders • metal detectors • medical equipment • test instruments • telephones • movie cameras • automotive warning systems • production machinery • various electronic equipment ***NOT WASHABLE UNLESS NOTED!***

Fig. 1

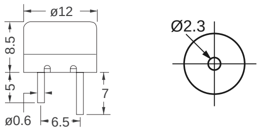
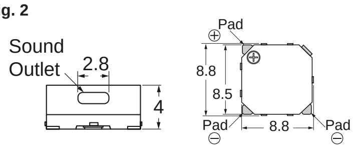
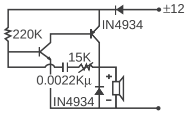


Fig. 2



Continuous Tone



Intermittent Tone

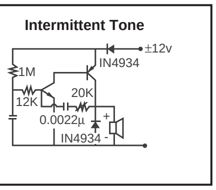


Fig.	Rated Input (mW)	D.C. Resistance (Ohms)	Impe-dance (Ohms)	S. P. L. (dB/1 W/1 m)	Fre-quency (Hz)	Physical Size (mm)	Terminal	Digi-Key Part No.	Pricing 1	10	100	500	Tape & Reel Pricing 1,000	Panasonic Part No.
1	50	12	35	86	3.8K~4.3K	12 x 8.5	Straight Pin	P9965-ND	4.44	39.37	318.20	1121.21	—	EAF-12RF04C
2	10	20	—	92	2.5K~2.7K	8.5 x 8.5	Surface Mount	P9902CT-ND‡	4.76	43.03	384.55	1611.46	2435.00	EAF-8RM08EF

‡ For Tape and Reel Part No. change "CT-ND" (cut-tape) to "TR-ND".

MALLORY SONALERT PRODUCTS, INC.

Sonalert® Audible Signal Devices (Buzzers)

Dimensions in Inches

Fig. 1

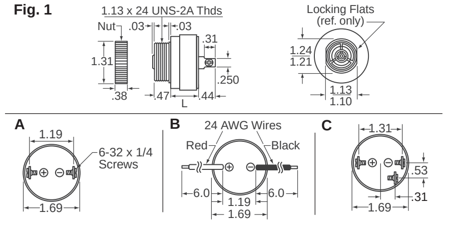


Fig. 2

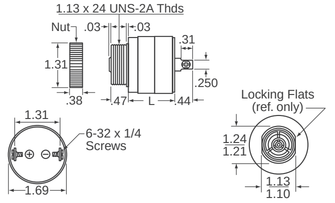


Fig. 3

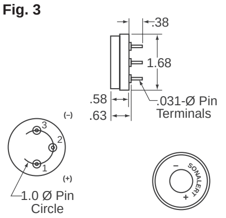


Fig. 4

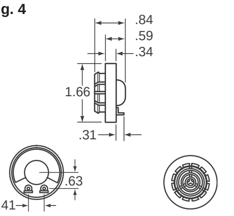


Fig.	Mounting Method	Dimension "L" (Inch)	Frequency ±500 (Hz)	Min. Sound Pressure dB (A) at Two Feet @Min. (V)	@Max. (V)	Operating Voltage (DC) Min.	Max.	Operating Current (mA) @Min. (V)	@Max. (V)	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
Continuous Tones															
1A	Panel	0.81	1900±300	60	75	6	28	6	23	458-1033-ND	16.15	14.60	12.95	12.17	SC628D
	Panel	0.81	2900	60	75	1	5	3	16	458-1012-ND	14.06	12.71	11.27	10.59	SC105
	Panel	0.81	2900	80	90	3	7	3	9	458-1021-ND	19.72	17.82	15.81	14.85	SC307N
	Panel	0.81	2900	68	80	4	16	4	14	458-1022-ND	14.06	12.71	11.27	10.59	SC416
	Panel	0.81	2900	80	95	6	16	6	22	458-1024-ND	17.71	16.01	14.20	13.34	SC616N
	Panel	0.81	2900	68	80	6	28	3	18	458-1029-ND	14.06	12.71	11.27	10.59	SC628
	Panel	0.81	2900	80	90	6	28	6	23	458-1036-ND	15.39	13.91	12.33	11.59	SC628N
	Panel	0.81	2900	68	80	10	48	5	22	458-1040-ND	14.64	13.23	11.74	11.03	SC648
	Panel	0.81	4500	68	80	6	28	6	23	458-1034-ND	17.88	16.16	14.33	13.47	SC628H
1B	Panel	0.81	2900	80	95	6	16	6	22	458-1026-ND	19.46	17.58	15.59	14.65	SC616NL
2	Panel	1.38	1900	60	75	30‡	120‡	6	21	458-1014-ND	31.22	28.22	25.02	23.52	SC110D
	Panel	1.38	2000±300	75	95	6	28	3	15	458-1037-ND	21.33	19.28	17.10	16.07	SC628ND
	Panel	1.38	2900	68	80	30‡	120‡	6	21	458-1013-ND	28.93	26.15	23.19	21.79	SC110
	Panel	1.38	2900	80	95	30‡	120‡	6	24	458-1016-ND	38.56	34.85	30.90	29.04	SC110N
	Panel	1.38	2900	68	80	60‡	250‡	5	18	458-1020-ND	26.99	24.39	21.63	20.33	SC250
	Panel	1.38	2900	68	80	6‡	28‡	6	23	458-1030-ND	24.49	22.13	19.62	18.44	SC628A
	Panel	1.38	2900	80	95	6‡	28‡	4	30	458-1031-ND	31.26	28.25	25.05	23.54	SC628AN
3	Printed Board	—	2900	64	78	4	28	3	16	458-1011-ND	15.32	13.85	12.28	11.54	SBM428
4	Snap In Panel	—	2900	55	68	1	5	3	12	458-1041-ND	13.13	11.87	10.53	9.89	SNP2
	Snap In Panel	—	2900	64	76	4	28	3	18	458-1042-ND	13.13	11.87	10.53	9.89	SNP428
Dual Mode Operation (Continuous or Fast Pulse)															
1C	Panel	0.81	2900	68	80	6	16	2	12	458-1028-ND	20.80	18.80	16.67	15.67	SC616PU-1
Intermittent Tones															
1A	Panel	0.81	2900	80	95	6	16	6	22	458-1025-ND†	22.71	20.52	18.20	17.10	SC616NJ
	Panel	0.81	2900	80	95	6	16	6	22	458-1027-ND•	22.71	20.52	18.20	17.10	SC616NP
2	Panel	1.38	2000±300	85	95	10	28	3	16	458-1038-ND•	23.02	20.81	18.45	17.34	SC628NDP
	Panel	1.38	2900	80	95	30‡	120‡	8	24	458-1017-ND†	39.06	35.30	31.30	29.42	SC110NJ
	Panel	1.38	2900	80	95	30‡	120‡	8	24	458-1018-ND•	39.06	35.30	31.30	29.42	SC110NP
	Panel	1.38	2900	80	95	6‡	28‡	4	30	458-1032-ND•	34.66	31.32	27.78	26.10	SC628ANP
	Panel	1.38	2900	68	80	6	28	6	26	458-1035-ND†	23.85	21.56	19.12	17.97	SC628J
	Panel	1.38	2900	68	80	6	28	6	26	458-1039-ND•	23.75	21.47	19.04	17.89	SC628P
2	Panel	1.94	2900	68	80	30‡	120‡	6	22	458-1015-ND†	37.58	33.96	30.12	28.30	SC110J
	Panel	1.94	2900	68	80	30‡	120‡	6	22	458-1019-ND•	37.50	33.89	30.05	28.24	SC110P
Chime Tone (Chimes Every One to Two Seconds)															
2	Panel	1.38	2900	68	78	6	16	6	23	458-1023-ND	27.57	24.92	22.10	20.77	SC616CP

‡ AC/DC Non-Polar

• Fast = Turns on and off at 2 to 10 pulses per second depending upon voltage at 50% duty cycle. † Slow = Turns on and off at .5 to 2 pulses per second depending upon voltage at 50% duty cycle.

Sonalert® Optical/Audible Signal Devices

Features:

• Panel Mounting • Flashing Ultra Bright Red LED Indicator • Loud Continuous Tone • 3-Way Terminals • Environmentally Sealed

Specifications:

• LED Pulse Rate: 2±1.5pps • LED View Angle: Wide 80° • Resonant Frequency: 2900 ±500Hz • Operating Temperature: -30°C to +65°C

Applications:

• Control Panels • Industrial Equipment • Medical Equipment • Home, Office, Auto, Fire, and Security • Alarms • Call Buzzers • Multi-Alarm Identification

Fig. 1

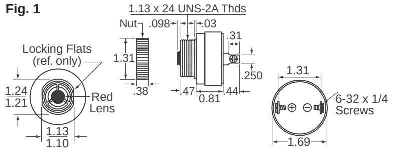


Fig. 2

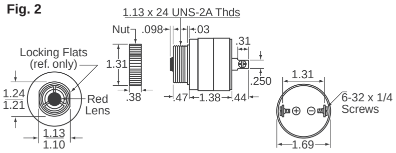


Fig.	Rated Voltage	Source Voltage Type	Min. Sound Pressure dB (A) at Two Feet @Min. (V)	@Max. (V)	Max. Operating Current (mA) @Min.	@Max.	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
1	6-16	DC	80@6	95@16	40@6	60@16	458-1002-ND	37.62	33.99	30.14	28.33	LSC616N
2	30-120	AC/DC	88@30	98@120	5@30	16@120	458-1000-ND	51.14	46.22	40.98	38.52	LSC110N
	60-250	AC/DC	84@60	87@250	4@60	14@250	458-1001-ND	51.21	46.28	41.04	38.57	LSC250N
	6-28	AC/DC	85@6	95@28	4@6	48@28	458-1003-ND	49.43	44.67	39.61	37.23	LSC628AN

Sonalert® Accessories

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Mallory Part No.
1	Boot, Black Vinyl, Terminal Insulating	458-1046-ND	1.02	.85	.74	RSB1
2	Manual Vol. Control - Approx. 10dB to -15dB Attenuation	458-1047-ND	1.26	1.05	.91	SCVC
3	Gasket for Sealing Nema Application	458-1048-ND	.60	.50	.43	SG1
4	Washer Compression SNP Series .063" Thickness	458-1043-ND	.24	.20	.18	PW1
	Washer Compression SNP Series .125" Thickness	458-1044-ND	.45	.38	.33	PW2
	Washer Compression SNP Series .187" Thickness	458-1045-ND	.60	.50	.43	PW3

Fig. 1

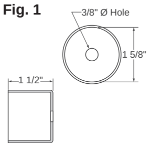


Fig. 2

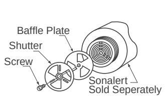


Fig. 3

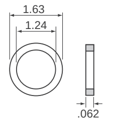
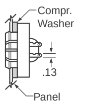


Fig. 4



MALLORY Sonalert® Audible Signal Devices

MALLORY SONALERT PRODUCTS, INC.

Dimensions in mm

Fig. 1

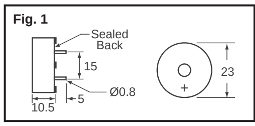
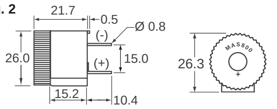


Fig. 2



Features: • Low Power Consumption • Low Cost • Compact Profile • Piezo Tone Quality • Extra Loud Sound Output • PCB Mount

Specifications: • Operating Temperature: -20°C to +65°C

Applications:

• Fire Alarm • Crime Prevention Alarm • Call Buzzer • Automotive • Clocks • P.O.S. Equipment • Medical Instruments • Electrical Instruments • Industrial and Safety Equipment

Fig.	Frequency ±400 (Hz)	Min. Sound Pressure dB (A) @ Two Feet @ Min. V	Min. Sound Pressure dB (A) @ Two Feet @ Max. V	Operating Voltage DC (V)	Max. Operating Current (mA) @ Min. V	Max. Operating Current (mA) @ Max. V	Pulse Rate Per Second	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
1	3850	75	86	5-16	3	14	Continuous	458-1006-ND	5.18	4.80	4.30	3.89	MSR516N
	3900	75	86	5-16	3	12	.5 - 2 (Slow)	458-1007-ND	5.70	5.28	4.74	4.28	MSR516NJ
	3900	75	86	5-16	3	12	2 - 10 (Fast)	458-1008-ND	5.40	5.00	4.49	4.05	MSR516NP
	3800 Avg.	75	86	5-16	3	12	2 - 4 (Siren)	458-1010-ND	9.24	8.55	7.67	6.93	MSR516X
	3700 Avg.	75	86	5-16	3	12	5 - 7 (Whooping)	458-1009-ND	9.26	8.57	7.69	6.95	MSR516W
	3400	75 @ 12V		3-20	3	16	Continuous	458-1005-ND	3.26	3.02	2.71	2.45	MSR320
2	2800 ± 500 (Hz)	80	93	9-12	—	50	Continuous	458-1004-ND	6.32	5.85	5.25	4.74	MAS800

Panasonic. Piezoelectric Ceramic Buzzer Units

Applications:

Smoke detectors, alarms, detectors, home appliances, radio beepers, electronic games, keyboard signalers, cameras, and telephone ringers.

P9948 and P9928 Features:

• Drive oscillator circuitry — will run directly from commonly used voltage source such as dry batteries • High sound level and low input voltage • Low power consumption. Wide operating range of supply voltage: 3 to 20VDC.

Features For All Others:

• Low power consumption • Long life and no noise due to non-contact • Thin thickness buzzer element • External drive type • Covering wide frequency range • No magnetic field is generated • High sound pressure level

Example Driving Circuit
(For Self Drive Type)

P9912 P9915 P9923
P9913 P9920
P9914 P9921

Q: ZTX451 or equivalent
D: 1N4148 or equivalent

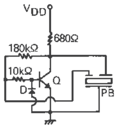


Fig. 1

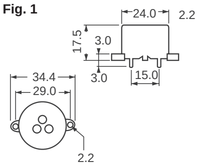


Fig. 2

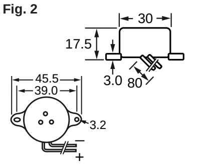


Fig. 3

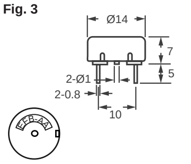


Fig. 4

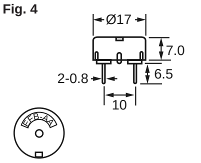


Fig. 5

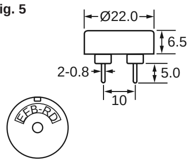


Fig. 6

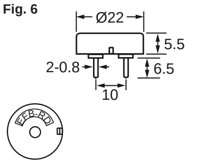


Fig. 7

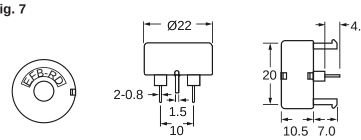


Fig. 8

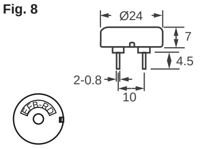


Fig. 9

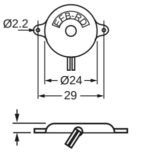


Fig. 10

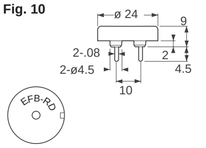


Fig. 11

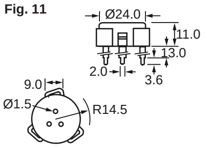


Fig. 12

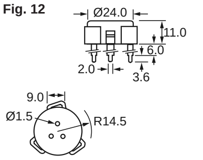


Fig. 13

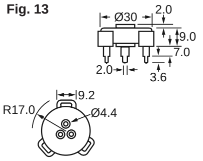


Fig. 14

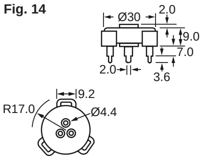


Fig. 15

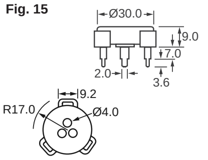


Fig. 16

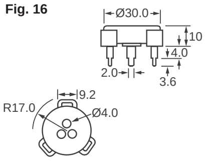


Fig. 17

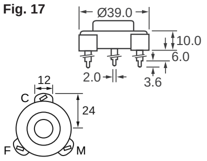


Fig.	Sound Pressure Level	Oscillating Freq.	Cap. (@1 KHz)	Current (12 VDC)	Input Voltage	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
1	80dB min. @ 12VDC	3.7KHz	—	15mA	3 ~ 20VDC	P9948-ND	8.34	70.53	551.43	1943.00	3664.00	3420.00/M	EFB-CB37C11
2	90dB min. @ 12VDC	2.8KHz	—	15mA	3 ~ 20VDC	P9928-ND	8.32	70.41	550.47	1939.50	3658.00	3414.00/M	EFB-CC28C15
3	74dB min. @ (15V p-p, 4KHz Sq. Wave)	—	8500pF	—	25V p-p	P9900-ND	3.19	27.01	211.18	744.00	1403.00	1310.00/M	EFB-AA14D001
4	86dB min. @ (15V p-p, 4KHz Sq. Wave)	—	7000pF	—	25V p-p	P9957-ND	2.13	17.99	140.63	495.50	934.00	872.00/M	EFB-AA40D102
5	85dB min. @ (15V p-p, 4KHz Sq. Wave)	—	15000pF	—	30V p-p	P9929-ND	2.18	18.48	144.48	509.00	960.00	896.00/M	EFB-RD22C41
6	80dB min. @ (15V p-p, 4KHz Sq. Wave)	—	15000pF	—	30V p-p	P9951-ND	2.14	18.14	141.83	500.00	942.00	880.00/M	EFB-RD22C413
7	98dB min. @ (15V p-p, 4KHz Sq. Wave)	—	15000pF	—	30V p-p	P9909-ND	2.26	19.10	149.30	526.00	992.00	926.00/M	EFB-RD22C415
8	85dB min. @ (15V p-p, 4KHz Sq. Wave)	—	10000pF	—	30V p-p	P9910-ND	2.80	23.72	185.42	653.50	1232.00	1150.00/M	EFB-RD24C41B
9	80dB min. @ (15V p-p, 4KHz Sq. Wave)	—	12000pF	—	30V p-p	P9911-ND	2.18	18.48	144.48	509.00	960.00	896.00/M	EFB-RC24C41
10	85dB min. @ (15V p-p, 4KHz Sq. Wave)	—	10000pF	—	30V p-p	P9924-ND	1.80	15.25	119.20	420.00	792.00	739.00/M	EFB-RD24C411
11	96dB min. @ 10VDC	3.5KHz	—	—	3 ~ 20VDC	P9912-ND*	3.41	28.86	225.63	795.00	1499.00	1399.00/M	EFB-RM38C13
12	93dB min. @ 10VDC	3.5KHz	—	—	3 ~ 20VDC	P9913-ND*	3.41	28.86	225.63	795.00	1499.00	1399.00/M	EFB-RM38C123
13	85dB min. @ 12VDC	2.0KHz	—	—	3 ~ 20VDC	P9914-ND*	2.98	25.19	196.97	694.00	1309.00	1222.00/M	EFB-RL20C102
14	104dB min. @ 12VDC	2.8KHz	—	—	3 ~ 20VDC	P9915-ND*	2.92	24.67	192.88	679.50	1282.00	1196.00/M	EFB-RL28C11
15	106dB min. @ 12VDC	3.7KHz	—	—	3 ~ 20VDC	P9920-ND*	3.17	26.83	209.74	739.00	1394.00	1301.00/M	EFB-RL37C20
16	106dB min. @ 12VDC	3.7KHz	—	—	3 ~ 20VDC	P9921-ND*	3.17	26.83	209.74	739.00	1394.00	1301.00/M	EFB-RL37C22
17	106dB min. @ 12VDC	3.2KHz	—	—	3 ~ 20VDC	P9923-ND*	6.08	51.41	401.90	1416.00	2670.00	2492.00/M	EFB-BD32B21

* Driving circuit required. ***NOTE****:* All buzzers and microphones are non-washable.

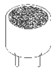
Ultrasonic Ceramic Sensor/Transducer

Ultrasonic Ceramic Sensor consisting of a disc/bimorph type piezoelectric ceramic vibrator that is used as a sensor for transmitting and receiving ultrasonics in the air. Since the ultrasonic sensor has a resonance type vibrator, it is high in sensitivity and has outstanding sound pressure level.

It has wide applications for burglar alarm systems, automatic door openers, flow rate detectors, and remote-control systems in TV, home appliance and toys, etc.

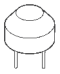
Sensors are not washable.

Type S Temperature Stable Type **



***** Temp. Range: -20°C to +60°C
****** Temp. Range: -40°C to +100°C

Type Q
Enclosed Type *



Type	Class	Ctr Freq. 51.0 (KHz)	Sensitivity (dB/V/mbar)	Sensitivity (0dB = 1V/Pa)	Min. Band-Width (KHz)	Sound Pressure Level (dB)	Max. Input Volt. (Vrms)	Dimensions (mm) Physical Size Dia.	Ht.	Leads Length	Space	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Panasonic Part No.
Q	Receiver	40.0	-75	-55	1.0	—	—	18.0	12.0	12.5	7.5	P9892-ND	21.63	194.64	1730.18	6488.16	12111.23	EFR-RQB40K5
Q	Transmitter	40.0	—	—	1.0	105	20	18.0	12.0	12.5	7.5	P9893-ND	21.63	194.64	1730.18	6488.16	12111.23	EFR-RTQB40KS
S	Receiver	40.0	-70	-50	4.0	—	—	16.0	12.0	10.0	10.0	P9894-ND	9.20	82.76	735.62	2758.56	5149.31	EFR-RSB40K5
S	Transmitter	40.0	—	—	4.0	105	20	16.0	12.0	10.0	10.0	P9895-ND	9.20	82.76	735.62	2758.56	5149.31	EFR-TSB40KS

CUI INC

Audio Transducers

Fig. 1

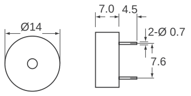


Fig. 2

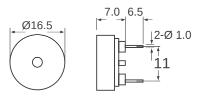


Fig. 3

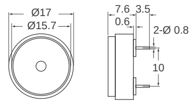


Fig. 4

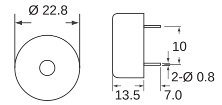
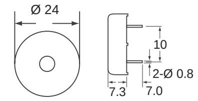


Fig. 5



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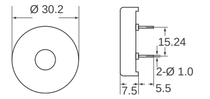

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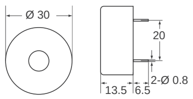

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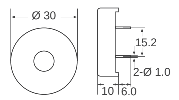

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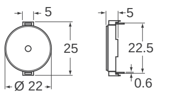

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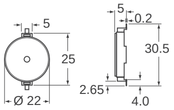

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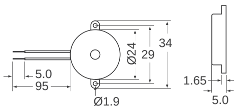

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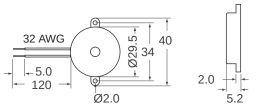

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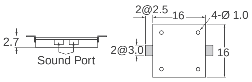
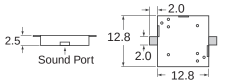


Fig. 14



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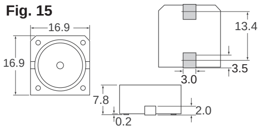

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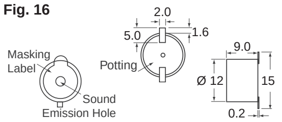

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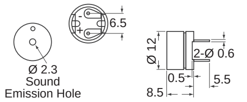

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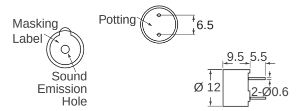

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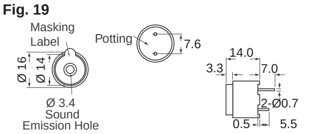


Fig. 20

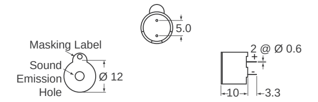


Fig. 21

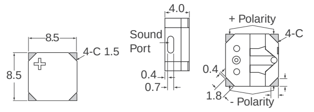
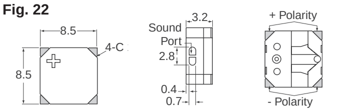


Fig. 22



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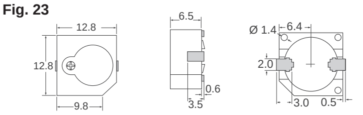

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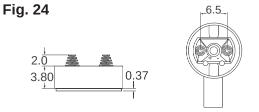


Fig. 25

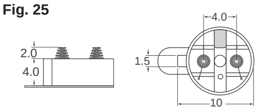
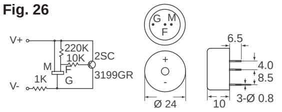


Fig. 26



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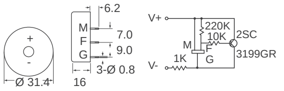

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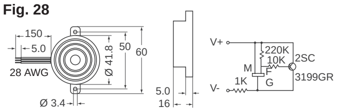

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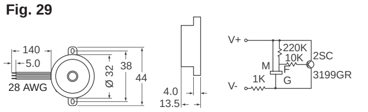


Piezo Ceramic Audio Transducers — External Drive Type

Fig.	Resonant Frequency (KHz)	Operating Voltage (Max.)	Sound Pressure Level	Current Consumption (Max.)	Capacitance	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each					Tape & Reel Pricing†	CUI Inc. Part No.
									1	10	100	500	1,000	1,000	
1	4.0	20V p-p	76dB min. @ 4.0KHz	10mA	17,000pF	-20 ~ +60	PCB Pin	102-1133-ND	2.34	2.13	1.70	1.42	1.24	—	CEP-1160
1	4.0	20V p-p	80dB min. @ 4.0KHz	7mA	14,000pF	-20 ~ +85	PCB Pin	102-1134-ND	2.50	2.28	1.82	1.52	1.32	—	CEP-1162
2	5.0	20V p-p	82dB min. @ 5.0KHz	11mA	7,500pF	-30 ~ +80	PCB Pin	102-1135-ND	1.40	1.28	1.02	.85	.74	—	CEP-1152
3	4.0	20V p-p	82dB min. @ 4.0KHz	7mA	13,000pF	-30 ~ +85	PCB Pin	102-1136-ND	1.54	1.40	1.12	.93	.82	—	CEP-1153
4	2.4	30V p-p	88dB min. @ 2.4KHz	18mA	80,000pF	-30 ~ +85	PCB Pin	102-1137-ND	2.89	2.63	2.10	1.75	1.53	—	CEP-1106
5	4.0	30V p-p	92dB min. @ 4.0KHz	11mA	21,000pF	-30 ~ +80	PCB Pin	102-1138-ND	1.38	1.25	1.00	.83	.73	—	CEP-1112
6	3.0	30V p-p	90dB min. @ 2.8KHz	10mA	18,000pF	-30 ~ +80	PCB Pin	102-1139-ND	1.90	1.73	1.38	1.15	1.01	—	CEP-1130
7	2.0	30V p-p	93dB min. @ 2.0KHz	11mA	45,000pF	-30 ~ +80	PCB Pin	102-1140-ND	2.26	2.05	1.64	1.37	1.19	—	CEP-1114
8	2.0	30V p-p	90dB min. @ 2.0KHz	8mA	28,000pF	-30 ~ +85	PCB Pin	102-1141-ND	2.04	1.85	1.48	1.23	1.08	—	CEP-1116
9	2.5	50V p-p	80dB min. @ 2.5KHz	7mA	18,000pF	-30 ~ +85	PCB Pin	102-1142-ND	1.57	1.43	1.14	.95	.83	—	CEP-1108
10	2.5	50V p-p	80dB min. @ 2.5KHz	7mA	18,000pF	-30 ~ +85	SMD	102-1143-ND	1.73	1.58	1.26	1.05	.92	—	CEP-1109
11	4.1	30V p-p	90dB min. @ 4.1KHz	12mA	21,000pF	-30 ~ +85	Lead Wire	102-1144-ND	1.40	1.28	1.02	.85	.74	—	CEP-1110
12	2.8	30V p-p	92dB min. @ 2.8KHz	10mA	18,000pF	-30 ~ +80	Lead Wire	102-1145-ND	1.79	1.63	1.30	1.08	.95	—	CEP-1126
13	4.0	25V p-p	75dB min. @ 4.0KHz	3mA	14,000pF	-30 ~ +70	SMD	102-1193-1-ND‡	1.90	1.73	1.38	1.15	—	966.00	CMT-1603
14	4.1	25V p-p	70dB min. @ 4.1KHz	5mA	16,000pF	-20 ~ +70	SMD	102-1195-ND	2.48	2.25	1.80	1.50	1.31	—	CMT-1303
15	5.0	20V p-p	88dB min. @ 5.0KHz	10mA	15,000pF	-30 ~ +70	SMD	102-1194-5-ND	2.50	2.28	1.82	1.52	1.82	—	CMT-1261

Magnetic Audio Transducers — External Drive Type

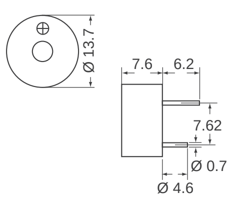
Fig.	Resonant Frequency (KHz)	Operating Voltage	Sound Pressure Level	Current Consumption (Max.)	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each					Tape & Reel Pricing†	CUI Inc. Part No.
								1	10	100	500	1,000		
16	2.4	4~8V 0-p	85dB min. @ 2.4KHz	40mA	-40 ~ +85	SMD	102-1150-ND+	2.15	1.95	1.56	1.30	1.14	—	CD-1206
17	2.048	1~2V 0-p	85dB min. @ 2.048KHz	20mA	-20 ~ +60	PCB Pin	102-1151-ND	.63	.58	.46	.39	.34	—	CEM-1201(42)
17	2.048	1~2V 0-p	80dB min. @ 2.048KHz	20mA	-20 ~ +60	PCB Pin	102-1152-ND	.63	.58	.46	.39	.34	—	CEM-1201(50)
17	2.048	3~5V 0-p	85dB min. @ 2.048KHz	20mA	-20 ~ +60	PCB Pin	102-1153-ND	.72	.65	.52	.44	.38	—	CEM-1203(42)
18	2.4	1~3V 0-p	80dB min. @ 2.4KHz	40mA	-20 ~ +60	PCB Pin	102-1154-ND+	.85	.78	.62	.52	.45	—	CEM-1201S
18	2.4	3~8V 0-p	85dB min. @ 2.4KHz	45mA	-20 ~ +60	PCB Pin	102-1155-ND+	.85	.78	.62	.52	.45	—	CEM-1206S
18	2.4	6~16V 0-p	85dB min. @ 2.4KHz	40mA	-20 ~ +60	PCB Pin	102-1156-ND+	.85	.78	.62	.52	.45	—	CEM-1212S
19	2.048	1~3V 0-p	80dB min. @ 2.048KHz	20mA	-20 ~ +60	PCB Pin	102-1112-ND+	1.32	1.20	.96	.80	.70	—	CEM-1601
19	2.048	3~12V 0-p	85dB min. @ 2.048KHz	50mA	-20 ~ +60	PCB Pin	102-1113-ND+	1.32	1.20	.96	.80	.70	—	CEM-1606
19	2.048	6~18V 0-p	85dB min. @ 2.048KHz	40mA	-20 ~ +60	PCB Pin	102-1114-ND+	1.32	1.20	.96	.80	.70	—	CEM-1612
20	2.8	1~1.7V 0-p	85dB min. @ 2.8KHz	40mA	-30 ~ +70	PCB Pin	102-1169-ND+	1.46	1.33	1.06	.88	.77	—	CEM-14R06CT
21	2.73	2.5~4.5V 0-p	87dB min. @ 2.73KHz	100mA	-30 ~ +70	SMD	102-1197-1-ND‡	2.34	2.13	1.70	1.42	—	1190.00/1000	CSS-73B16K
22	3.1	3~5.0V 0-p	90dB min. @ 3.1KHz	80mA	-30 ~ +70	SMD	102-1198-1-ND‡	2.45	2.23	1.78	1.48	—	1246.00/1000	CSS-J4D20
23	2.4	3~8.0V 0-p	87dB min. @ 2.4KHz	40mA	-30 ~ +70	SMD	102-1199-1-ND‡	1.76	1.60	1.28	—	—	417.60/450	CT-1205
24	2.0	1~3V 0-p	90dB min. @ 2.0KHz	90mA	-20 ~ +60	Spring	102-1201-ND	1.49	1.35	1.08	.90	.79	—	CSQ-706BS
25	2.73	2~4.5V 0-p	90dB min. @ 2.73KHz	80mA	-20 ~ +60	Spring	102-1202-ND	2.34	2.13	1.70	1.42	1.24	—	CST-934AS

Piezo Ceramic Audio Transducers — Self Drive Type with Feedback

Fig.	Resonant Frequency (KHz)	Operating Voltage	Sound Pressure Level	Current Consumption (Max.)	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each					CUI Inc. Part No.
								1	10	100	500	1,000	
26	3.2	3~28VDC	74dB min. @ 12VDC	7mA	-30 ~ +85	PCB Pin	102-1146-ND*	1.65	1.50	1.20	1.00	.87	CEP-1123
27	3.3	3~28VDC	81dB min. @ 12VDC	7mA	-30 ~ +80	PCB Pin	102-1147-ND*	2.15	1.95	1.56	1.30	1.14	CEP-1172
28	2.8	3~28VDC	85dB min. @ 12VDC	7mA	-30 ~ +85	Lead Wire	102-1148-ND*	2.39	2.18	1.74	1.45	1.27	CEP-1136
29	3.3	3~28VDC	82dB min. @ 12VDC	7mA	-30 ~ +80	Lead Wire	102-1149-ND*	2.04	1.85	1.48	1.23	1.08	CEP-1173

† For tape and reel part number, change -1-ND to -2-ND. ‡ Cut tape pricing + Wave solderable and washable * Feedback circuit required

Fig. 1



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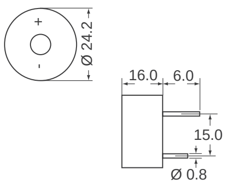

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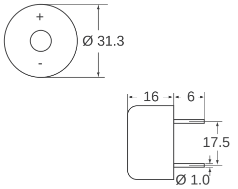


Fig. 4

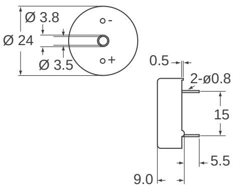


Fig. 5

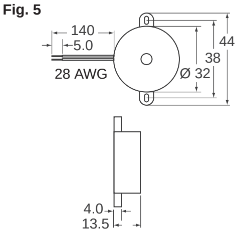


Fig. 6

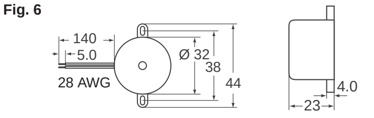


Fig. 7

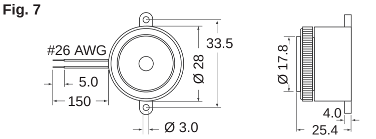


Fig. 8

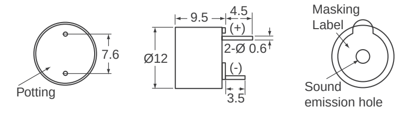


Fig. 9

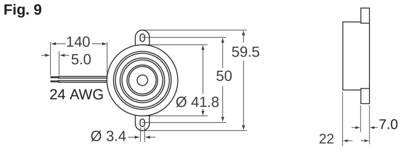


Fig. 10

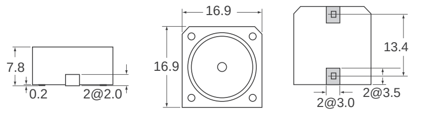
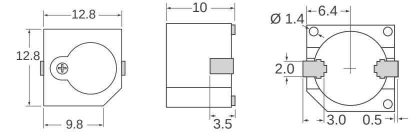


Fig. 11



Audio Indicators

Fig.	Sound Pressure Level	Resonant Frequency (KHz)	Current	Input Voltage	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Tape & Reel Pricing 320†	CUI Inc. Part No.
						Piezo Buzzers With Drive Circuits							
1	70dB min. @ 12VDC	4.1	7mA @ 12VDC	3~16VDC	PCB Pin	102-1115-ND+	2.72	2.48	1.98	1.65	1.44	—	CEP-2242
2	85dB min. @ 12VDC	3.0	11mA @12VDC	3~20VDC	PCB Pin	102-1116-ND	3.52	3.20	2.56	2.13	1.86	—	CEP-2202A
2	85dB min. @ 12VDC	3.0	11mA @12VDC	3~20VDC	PCB Pin	102-1117-ND+	3.85	3.50	2.80	2.33	2.03	—	CEP-2202AS
3	93dB min. @ 12VDC	3.5	10mA @ 12VDC	3~20VDC	PCB Pin	102-1118-ND	3.60	3.28	2.62	2.18	1.90	—	CEP-2272A
4	78dB min. @ 12VDC	3.4	15mA @ 12VDC	3~20VDC	PCB Pin	102-1119-ND	2.59	2.35	1.88	1.57	1.37	—	CEP-2224
5	93dB min. @ 12VDC	3.5	10mA @ 12VDC	3~20VDC	Lead Wires	102-1120-ND	3.36	3.05	2.44	2.03	1.77	—	CEP-2260A
6	88dB min @ 12VDC	2.5 - 3.8	17mA @ 12VDC	6~18VDC	Lead Wires	102-1121-ND	6.24	5.68	4.54	3.77	3.30	—	CEP-2280
7	85dB min. @ 12VDC	3.5	6mA @ 12VDC	3~28VDC	Lead Wires	102-1122-ND	4.40	4.00	3.20	2.66	2.32	—	CEP-2250
8	85dB min. @ 12VDC	2.3	35mA @ 12VDC	8~16VDC	PCB Pin	102-1123-ND+	2.37	2.15	1.72	1.43	1.25	—	CEM-1212C
8	85dB min. @ 5VDC	2.3	35mA @ 5VDC	4~7VDC	PCB Pin	102-1124-ND+	2.37	2.15	1.72	1.43	1.25	—	CEM-1205C
9	88dB min. @ 110VAC	2.8	7mA @ 110VAC	30~120VAC/DC	Lead Wires	102-1125-ND	5.78	5.25	4.20	3.49	3.05	—	CEP-4411AC
10	83dB min. @ 12VDC	4.0	8mA @ 12VDC	3~20VDC	SMD	102-1196-5-ND	4.15	3.78	3.02	2.51	2.19	—	CMI-1240
						Magnetic Buzzer With Drive Circuit							
11	90dB min. @ 5VDC	2.4	30mA @ 5VDC	4~7VDC	SMD	102-1200-1-ND‡	2.72	2.48	1.98	—	—	459.36	CT-1205C

+ Wave Solderable and Washable † For tape and reel part number, change -1-ND to -2-ND. ‡ Cut tape pricing

Piezoelectric Ceramic Buzzer Elements

Fig. 1

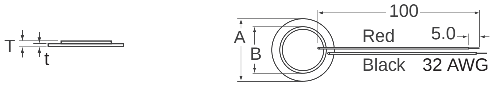
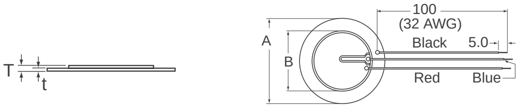


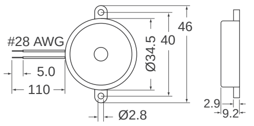
Fig. 2



Dimensions (mm) A	B	T	t	Resonant Frequency (KHz)	Resonant Impedance (Max. Ohm)	Electrostatic Capacity (@ 1KHz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each 1	10	100	500	1,000	CUI Inc. Part No.
								Standard Type — Fig. 1						
20.00	14.60	0.43	0.20	6.5	350	13,000pF	30V p-p	102-1126-ND	1.05	.95	.76	.64	.56	CEB-20D64
27.00	19.80	0.53	0.25	4.6	250	16,000pF	20V p-p	102-1127-ND	1.10	1.00	.80	.67	.58	CEB-27D44
35.00	25.00	0.53	0.25	2.6	300	30,000pF	30V p-p	102-1128-ND	1.43	1.30	1.04	.87	.76	CEB-35D26
44.00	25.00	0.23	0.1	0.6	1,000	70,000pF	20V p-p	102-1170-ND	1.62	1.48	1.18	.98	.86	CEB-44D06
								Feed Back Type — Fig. 2						
20.00	15.00	0.43	0.20	6.4	400	10,000pF	30V p-p	102-1129-ND	1.18	1.08	.86	.72	.63	CEB-20FD64
27.00	20.00	0.51	0.25	4.5	500	16,000pF	30V p-p	102-1130-ND	1.21	1.10	.88	.74	.64	CEB-27FD44
35.00	25.00	0.53	0.25	2.9	500	25,000pF	30V p-p	102-1131-ND	1.57	1.43	1.14	.95	.83	CEB-35FD29

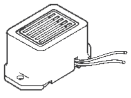
Piezo Telephone Ringer

Sound Pressure Level	Electrostatic Capacitance (@ 1KHz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each 1	10	100	500	1,000	CUI Inc. Part No.
81dB @ 1.1KHz	43,000pF	30V p-p	102-1132-ND	1.76	1.60	1.28	1.07	.93	CEP-1141



9-15VDC Buzzer

Operates from 9-15VDC. Case size: 23mm(L) x 15mm(W) x 13.5mm(H) with mounting hole centers at 27mm.



140CU-ND **$2.88/1**
.... **$26.40/10**

Soberton Inc. Magnetic Audio Transducers

Fig. 1

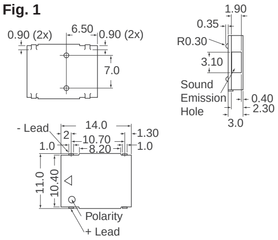


Fig. 2

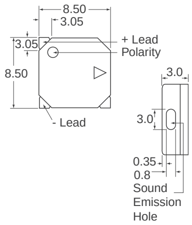


Fig. 3

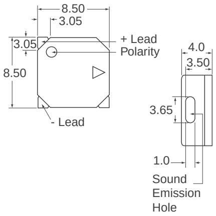


Fig. 4

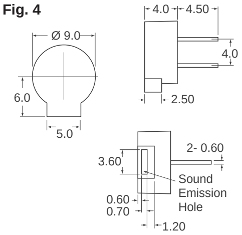


Fig. 5

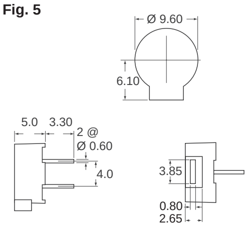


Fig. 6

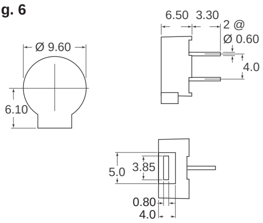


Fig. 7

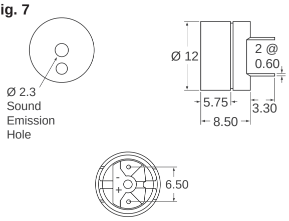


Fig. 8

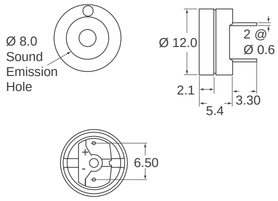


Fig. 9

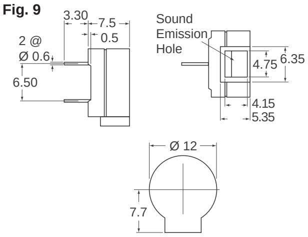


Fig. 10

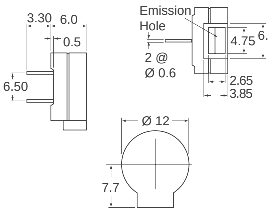


Fig. 11

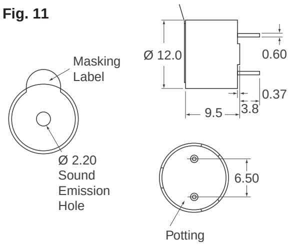


Fig. 12

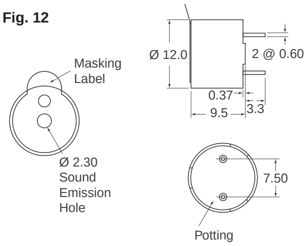
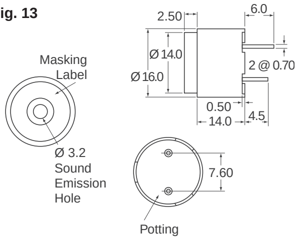


Fig. 13



Reflowable SMD Type — External Drive

Fig.	Rated Frequency (KHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA) (Max)	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Soberton Part No.
1	2.73	1-2	85db min. @ 2.73KHz	80	-30 ~ +85	SMD	433-1000-1-ND	3.12	2.60	2.08	1.73	433-1000-2-ND	1463.28	ST-01AH
	2.73	2-4	87db min. @ 2.73KHz	70	-30 ~ +85	SMD	433-1001-1-ND	3.12	2.60	2.08	1.73	433-1001-2-ND	1463.28	ST-01BH
	2.30	4-6	87db min. @ 2.30KHz	70	-30 ~ +85	SMD	433-1002-1-ND	3.12	2.60	2.08	1.73	433-1002-2-ND	1463.28	ST-01CL
	2.73	4-6	87db min. @ 2.73KHz	70	-30 ~ +85	SMD	433-1003-1-ND	3.12	2.60	2.08	1.73	433-1003-2-ND	1463.28	ST-01CH
2	2.73	1-2	85db min. @ 2.73KHz	80	-30 ~ +85	SMD	433-1004-1-ND	3.12	2.60	2.08	1.73	433-1004-2-ND	1463.28	ST-03AH
	2.30	2-4	87db min. @ 2.30KHz	70	-30 ~ +85	SMD	433-1005-1-ND	3.12	2.60	2.08	1.73	433-1005-2-ND	1463.28	ST-03BL
	2.73	2-4	87db min. @ 2.73KHz	70	-30 ~ +85	SMD	433-1006-1-ND	3.12	2.60	2.08	1.73	433-1006-2-ND	1463.28	ST-03BH
	2.73	4-6	87db min. @ 2.73KHz	70	-30 ~ +85	SMD	433-1007-1-ND	3.12	2.60	2.08	1.73	433-1007-2-ND	1463.28	ST-03CH
3	2.30	2-4	87db min. @ 2.30KHz	70	-30 ~ +85	SMD	433-1008-1-ND	3.12	2.60	2.08	1.73	433-1008-2-ND	1463.28	ST-04BL
	2.73	2-4	87db min. @ 2.73KHz	70	-30 ~ +85	SMD	433-1009-1-ND	3.12	2.60	2.08	1.73	433-1009-2-ND	1463.28	ST-04BH
	3.20	2-4	87db min. @ 3.20KHz	70	-30 ~ +85	SMD	433-1010-1-ND	3.12	2.60	2.08	1.73	433-1010-2-ND	1463.28	ST-04BT
	2.73	4-6	87db min. @ 2.73KHz	70	-30 ~ +85	SMD	433-1011-1-ND	3.12	2.60	2.08	1.73	433-1011-2-ND	1463.28	ST-04CH

Non-Washable Type — External Drive

Fig.	Rated Frequency (KHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA) (Max)	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Soberton Part No.
4	2.73	1-2	85db min. @ 2.73KHz	80	-20 ~ +60	PCB	433-1012-ND	1.27	.79	.58	.51	GT-0915RP2
	2.73	2-4	85db min. @ 2.73KHz	80	-20 ~ +60	PCB	433-1013-ND	1.27	.79	.58	.51	GT-0930RP2
	3.10	4-6	85db min. @ 3.10KHz	80	-20 ~ +60	PCB	433-1014-ND	1.27	.79	.58	.51	GT-0950RP3
5	2.73	1-2	85db min. @ 2.73KHz	80	-20 ~ +60	PCB	433-1015-ND	1.19	.74	.54	.48	GT-1515RP2
	3.10	1-2	87db min. @ 3.10KHz	80	-20 ~ +60	PCB	433-1016-ND	1.19	.74	.54	.48	GT-1515RP3
6	2.73	1-2	85db min. @ 2.73KHz	80	-20 ~ +60	PCB	433-1017-ND	1.19	.74	.54	.48	GT-1515RP2H
	3.10	1-2	87db min. @ 3.10KHz	80	-20 ~ +60	PCB	433-1018-ND	1.19	.74	.54	.48	GT-1515RP3H
7	2.048	1-2	85db min. @ 2.048KHz	35	-20 ~ +60	PCB	433-1019-ND	1.08	.63	.44	.39	GT-11P
	2.048	1-4	80db min. @ 2.048KHz	10	-20 ~ +60	PCB	433-1020-ND	.92	.54	.37	.32	GT-111P
	2.73	1-4	87db min. @ 2.73KHz	70	-20 ~ +60	PCB	433-1021-ND	1.08	.63	.44	.39	GT-11PB
8	2.048	1-2	70db min. @ 2.048KHz	35	-20 ~ +60	PCB	433-1022-ND	1.08	.63	.44	.39	GT-11PS
	2.048	1-4	70db min. @ 2.048KHz	15	-20 ~ +60	PCB	433-1023-ND	.92	.54	.37	.32	GT-111PS
9	2.048	1-2	80db min. @ 2.048KHz	35	-20 ~ +60	PCB	433-1024-ND	.92	.54	.37	.32	GT-12QP-1
	2.73	1-2	87db min. @ 2.73KHz	70	-20 ~ +60	PCB	433-1025-ND	.92	.54	.37	.32	GT-12QP-3
10	2.73	1-2	85db min. @ 2.73KHz	70	-20 ~ +60	PCB	433-1026-ND	.92	.54	.37	.32	GT-12QP-9

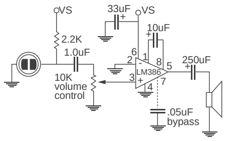
Washable Type — External Drive

Fig.	Rated Frequency (KHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA) (Max)	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Soberton Part No.
11	2.3±.2	1-2	85db min. @ 2.3KHz	35	-30 ~ +85	PCB	433-1027-ND	.87	.51	.35	.30	WT-1201
	2.3±.2	4-6	85db min. @ 2.3KHz	40	-30 ~ +85	PCB	433-1028-ND	.87	.51	.35	.30	WT-1205

Washable Type — Self Contained Drive

Fig.	Rated Frequency (KHz)	Operating Voltage (V) DC	Sound Pressure Level	Current Consumption (mA) (Max)	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Soberton Part No.
12	2.3±.2	4-6	85db min. @ 2.3KHz	40	-20 ~ +60	PCB	433-1029-ND	1.81	1.18	.90	.80	WST-1205S
13	2.2±.2	8-16	85db min. @ 2.2KHz	30	-30 ~ +85	PCB	433-1030-ND	2.30	1.50	1.15	1.01	WST-1612S

Panasonic® Electret Condenser Microphone Cartridge



Consists of a high voltage internal electret membrane, metal electrode and a Field Effect Transistor (FET). Doesn't need a high-voltage bias from the outside like ordinary condenser microphones. **Features:** Highly efficient electrical specification, pressure type operating principle, low impedance (2.2kΩ), omnidirectional back directivity, and a high degree of reliability under adverse shock, vibration and environmental tests. **Applications:** Telephone and telephone answering devices, tape recorders, intercoms, computer modems, completed microphones for recording, testing and monitoring, hearing aids, sonic controlled toys and sensors, and others. All buzzers and microphones are non-washable.

Fig. 1 *NEW!*

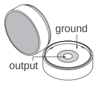


Fig. 2 *NEW!*

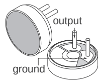


Fig. 3 *NEW!*

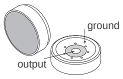


Fig. 4 *NEW!*

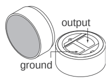


Fig. 5 *NEW!*

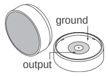


Fig. 6 *NEW!*

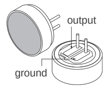


Fig. 7 *NEW!*

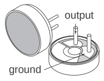


Fig. 8

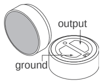


Fig. 9 *NEW!*

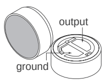


Fig. 10 *NEW!*

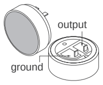


Fig. 11 *NEW!*

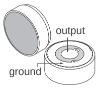


Fig. 12

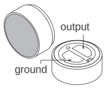


Fig. 13 *NEW!*

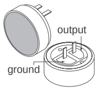


Fig. 14 *NEW!*

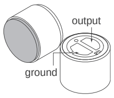


Fig. 15 *NEW!*

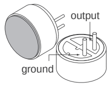


Fig. 16 *NEW!*

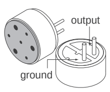


Fig. 17 *NEW!*

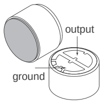


Fig. 18 *NEW!*

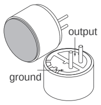


Fig. 19 *NEW!*

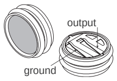


Fig. 20 *NEW!*

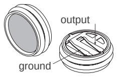


Fig. 21 *NEW!*

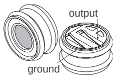


Fig. 22

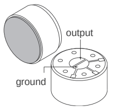


Fig. 23

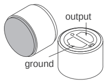


Fig. 24

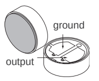


Fig. 25

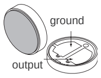


Fig. 26

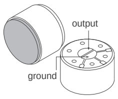


Fig.	Type	Physical Size (mm)	Sensitivity (0dB = 1V/Pa)	Frequency Range (Hz)	Operating Voltage Max./Std.	Current Consumption Max.	Sensitivity Reduction	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	Omnidirectional	ø6.0 X 1.3	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11957-ND† *NEW!*	2.83	2.51	2.03	WM-63GCT
1	Omnidirectional	ø6.0 X 1.3	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11958-ND† *NEW!*	2.93	2.60	2.10	WM-63GNT
2	Omnidirectional	ø6.0 X 1.3	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11961-ND *NEW!*	3.36	2.99	2.42	WM-63PRT
3	Omnidirectional	ø6.0 X 1.5	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11962-ND *NEW!*	2.77	2.46	1.99	WM-E15BT
4	Omnidirectional	ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11963-ND *NEW!*	2.04	1.82	1.47	WM-64AT
4	Omnidirectional	ø6.0 X 2.2	-45dB ±4dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9955-ND†	2.05	1.82	1.48	WM-64C
4	Omnidirectional	ø6.0 X 2.2	-45dB ±4dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9958-ND†	2.03	1.81	1.46	WM-64K
5	Omnidirectional	ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11964-ND† *NEW!*	1.99	1.77	1.43	WM-64MCT
5	Omnidirectional	ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11965-ND† *NEW!*	2.01	1.79	1.45	WM-64MNT
6	Omnidirectional	ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11967-ND† *NEW!*	2.40	2.13	1.72	WM-64PCT
6	Omnidirectional	ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11968-ND† *NEW!*	2.41	2.14	1.73	WM-64PKT
7	Omnidirectional	ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11969-ND† *NEW!*	2.74	2.43	1.97	WM-64PNT
8	Omnidirectional	ø6.0 X 2.7	-45dB ±4dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9933-ND	1.69	1.50	1.22	WM-62A
9	Omnidirectional	ø6.0 X 2.7	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11971-ND *NEW!*	2.03	1.80	1.46	WM-62CT
9	Omnidirectional	ø6.0 X 2.7	-45dB ±4dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9926-ND†	2.04	1.81	1.47	WM-62CC
9	Omnidirectional	ø6.0 X 2.7	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11972-ND† *NEW!*	2.03	1.81	1.46	WM-62KT
10	Omnidirectional	ø6.0 X 2.7	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11973-ND *NEW!*	2.15	1.91	1.55	WM-62BT
11	Omnidirectional	ø6.0 X 2.7	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11970-ND† *NEW!*	2.04	1.81	1.47	WM-62HNT
12	Omnidirectional	ø6.0 X 3.4	-35dB ±4dB	20-20k	10V/2V	0.5mA	within -3dB @ 1.5V	>62dB	P9925-ND	1.83	1.63	1.31	WM-61A
13	Omnidirectional	ø6.0 X 3.4	-35dB ±4dB	20-20k	10V/2V	0.5mA	within -3dB @ 1.5V	>62dB	P11974-ND *NEW!*	2.08	1.85	1.50	WM-61B
14	Omnidirectional	ø6.0 X 5.0	-44dB ±3dB	20-20k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11975-ND *NEW!*	1.71	1.52	1.23	WM-60AT
14	Omnidirectional	ø6.0 X 5.0	-42dB ±3dB	20-20k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9959-ND	2.64	2.35	1.90	WM-60AY
15	Omnidirectional	ø9.7 X 4.5	-42dB ±2dB	20-16k	10V/1.5V	0.3mA	within -3dB @ 1.1V	>60dB	P11977-ND *NEW!*	1.01	.90	.73	WM-52BH
15	Omnidirectional	ø9.7 X 4.5	-44dB ±2dB	20-16k	10V/1.5V	0.3mA	within -3dB @ 1.1V	>60dB	P9970-ND	1.06	.95	.77	WM-52BM
15	Omnidirectional	ø9.7 X 4.5	-42dB ±3dB	20-16k	10V/1.5V	0.3mA	within -3dB @ 1.1V	>60dB	P11976-ND *NEW!*	1.01	.90	.73	WM-52BY
16	Omnidirectional	ø9.7 X 4.5	-44dB ±2dB	20-16k	10V/2.5V	0.6mA	within -3dB @ 2V	>60dB	P11978-ND *NEW!*	.83	.74	.60	WM-54BM
16	Omnidirectional	ø9.7 X 4.5	-44dB ±3dB	20-16k	10V/2.5V	0.6mA	within -3dB @ 2V	>60dB	P9949-ND	.82	.73	.59	WM-54BT
17	Omnidirectional	ø9.7 X 6.7	-42dB ±3dB	20-16k	10V/4.5V	0.8mA	within -3dB @ 3V	>60dB	P9956-ND	1.09	.97	.79	WM-034CY
17	Omnidirectional	ø9.7 X 6.7	-42dB ±3dB	20-16k	10V/4.5V	0.8mA	within -3dB @ 3V	>60dB	P9962-ND*	2.77	2.46	1.99	WM-034CY195M
17	Omnidirectional	ø9.7 X 6.7	-42dB ±2dB	20-16k	10V/1.5V	0.3mA	within -3dB @ 1V	>60dB	P11979-ND *NEW!*	.93	.83	.67	WM-034DH
18	Omnidirectional	ø9.7 X 6.7	-42dB ±3dB	20-16k	10V/4.5V	0.8mA	within -3dB @ 3V	>60dB	P9931-ND	1.26	1.12	.91	WM-034BY
18	Omnidirectional	ø9.7 X 6.7	-42dB ±2dB	20-16k	10V/1.5V	0.3mA	within -3dB @ 1V	>60dB	P11980-ND *NEW!*	1.63	1.45	1.17	WM-034DBH
19	Omnidirectional	ø7.7 X 3.0	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11959-ND *NEW!*	4.78	4.24	3.43	WM-63GNT330
20	Omnidirectional	ø7.5 X 2.4	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11960-ND *NEW!*	5.01	4.44	3.59	WM-63GNT335
21	Omnidirectional	ø7.7 X 4.0	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11966-ND *NEW!*	3.76	3.34	2.70	WM-64MNT330A
22	Unidirectional	ø9.7 X 5.0	-47dB ±4dB	100-16k	10V/1.5V	0.5mA	within -3dB @ 1V	>60dB	P9961-ND	2.58	2.30	1.86	WM-55A103
22	Unidirectional	ø9.7 X 5.0	-50dB ±4dB	100-16k	10V/1.5V	0.5mA	within -3dB @ 1V	>58dB	P9963-ND	1.86	1.66	1.34	WM-56A103
23	Unidirectional	ø6.0 X 5.0	-50dB ±4dB	100-12k	10V/2V	0.5mA	within -3dB @ 1.5V	>55dB	P9964-ND	2.08	1.85	1.50	WM-65A103
24	Noise Canceling	ø6.0 X 2.7	-51dB ±4.5dB	100-10k	10V/2V	0.5mA	within -3dB @ 1.5V	>50dB	P9896-ND	1.95	1.74	1.40	WM-66D103
24	Noise Canceling	ø6.0 X 2.7	-45dB ±4dB	100-10k	10V/2V	0.5mA	within -3dB @ 1.5V	>50dB	P9968-ND†	2.48	2.20	1.78	WM-66DC103
25	Noise Canceling	ø6.0 X 2.2	-51dB ±4dB	100-10k	10V/2V	0.5mA	within -3dB @ 1.5V	>50dB	P9973-ND	2.19	1.95	1.58	WM-67D103
26	Noise Canceling	ø9.7 X 5.0	-54dB ±4dB	100-10k	10V/1.5V	0.5mA	within -3dB @ 1V	>58dB	P9897-ND	2.66	2.37	1.91	WM-55D103

***** Has 18mm long leads. † With built-in cap.

Microphone Holders

Fig. 1

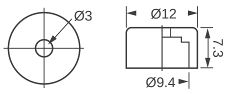


Fig. 2

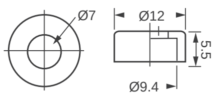


Fig. 3

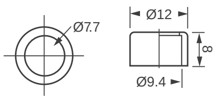


Fig. 4

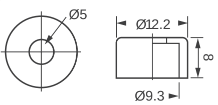


Fig. 5

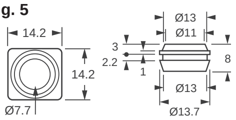


Fig. 6

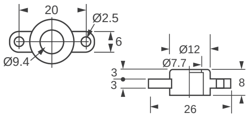


Fig. 7

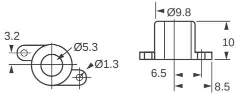


Fig.	Digi-Key Part No.	Price Each 1	10	100	500	Panasonic Part No.	Use With Panasonic Part No.
1	P9950-ND	.59	.50	.39	.28	M3CA0208A4	WM-52BM, WM-54BT, WM-55A103, WM-55D103, WM-56A103
2	P9952-ND	.59	.50	.39	.28	M3CA0207A4	WM-52BM, WM-54BT, WM-55A103, WM-55D103, WM-56A103
3	P9974-ND	.59	.50	.39	.28	YPM-CH022AA4	WM-034 Series
4	P9953-ND	.59	.50	.39	.28	M3CA0082A4	WM-034 Series
5	P9698-ND	.51	.44	.34	.24	YPMCH008	WM-034 Series
6	P9899-ND	.59	.50	.39	.28	YPM-CH009AA4	WM-034 Series
7	P9898-ND	.59	.50	.39	.28	YPM-CH021AA4	WM-063T, WM60AT, WM60AY, WM65A103

HORN INDUSTRIAL Electret Condenser Microphone

Electret condenser microphones consist of a high voltage internal electret membrane, a metal electrode, and a field effect transistor (FET). Horn Industrial microphones are manufactured in a quality controlled facility in China. All microphones are produced with Japanese made FETs to ensure high quality and reliability. This along with 100% testing ensure a zero defect rate. Horn's commitment to quality has earned them approval from a famous global manufacturer of mobile phones. Horn's ECMs utilize a highly efficient, low impedance design, available in omni directional, unidirectional, and noise canceling versions. Typical applications are telephone and telephone answering equipment, tape recorders, intercoms, hearing aids, and sonically controlled games and toys. All microphones are non-washable.

Fig. 1

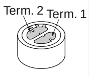


Fig. 2

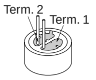


Fig. 3

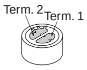


Fig. 4

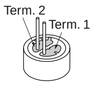


Fig. 5

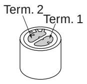


Fig. 6

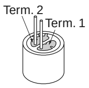


Fig. 7

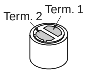


Fig. 8

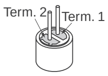


Fig. 9

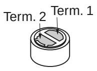


Fig. 10

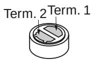


Fig. 11

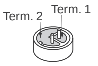


Fig. 12

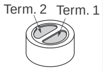


Fig. 13

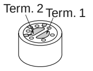


Fig. 14

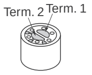


Fig. 15

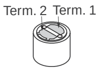


Fig. 16

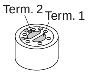


Fig. 17

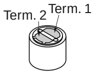


Fig.	Type	Physical Size (mm)	Sensitivity (0dB = 1V/Pa)	Frequency Range (Hz)	Operating Voltage Std.	Current Consumption Max.	Sensitivity Reduction	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Horn Part No.
1	Omnidirectional	ø9.7 x 6.5	-42dB ±2dB	100-9k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1001-ND	.91	.69	.46	EM9765-422
2	Omnidirectional	ø9.7 x 6.5	-42dB ±2dB	100-9k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1002-ND	.99	.75	.50	EM9765P-422
3	Omnidirectional	ø9.7 x 4.5	-44dB ±2dB	100-9k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1006-ND	1.03	.78	.52	EM9745-442
4	Omnidirectional	ø9.7 x 4.5	-44dB ±2dB	100-9k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1007-ND	1.11	.84	.56	EM9745P-442
5	Omnidirectional	ø9.4 x 6.5	-44dB ±2dB	100-9k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1008-ND	1.08	.81	.54	EM9465-442
6	Omnidirectional	ø9.4 x 6.5	-44dB ±2dB	100-9k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1009-ND	1.16	.87	.58	EM9465P-442
7	Omnidirectional	ø6.0 x 5.0	-42dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1011-ND	1.16	.87	.58	EM6050-423
7	Omnidirectional	ø6.0 x 5.0	-44dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1012-ND	1.16	.87	.58	EM6050-443
8	Omnidirectional	ø6.0 x 5.0	-42dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1013-ND	1.24	.94	.63	EM6050P-423
8	Omnidirectional	ø6.0 x 5.0	-44dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1014-ND	1.24	.94	.63	EM6050P-443
9	Omnidirectional	ø6.0 x 3.5	-38dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1017-ND	2.91	2.19	1.46	EM6035-383
9	Omnidirectional	ø6.0 x 3.5	-40dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1018-ND	2.81	2.11	1.41	EM6035-403
10	Omnidirectional	ø6.0 x 2.7	-42dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1019-ND	2.81	2.11	1.41	EM6027-423
11	Omnidirectional	ø6.0 x 2.7	-42dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1020-ND	3.14	2.36	1.57	EM6027PA-423
12	Omnidirectional	ø4.5 x 3.0	-44dB ±3dB	100-15k	4.5V	0.5mA	within -3dB @ 1.5V	>60dB	359-1021-ND	3.31	2.49	1.66	EM4530-443
13	Unidirectional	ø9.7 x 5.2	-47dB ±4dB	50-15k	1.5V	0.5mA	within -3dB @ 1V	>58dB	359-1003-ND	3.14	2.36	1.57	EM9752U-474
13	Unidirectional	ø9.7 x 5.2	-51dB ±4dB	50-15k	1.5V	0.5mA	within -3dB @ 1V	>58dB	359-1004-ND	3.14	2.36	1.57	EM9752U-514
14	Unidirectional	ø8.0 x 5.0	-51dB ±4dB	50-15k	1.5V	0.5mA	within -3dB @ 1V	>60dB	359-1010-ND	3.14	2.36	1.57	EM8050U-514
15	Unidirectional	ø6.0 x 5.0	-51dB ±4dB	50-15k	2.0V	0.5mA	within -3dB @ 1.5V	>58dB	359-1016-ND	2.97	2.24	1.49	EM6050U-514
16	Noise Cancelling	ø9.7 x 5.2	-51dB ±4dB	100-8k	1.5V	0.5mA	within -3dB @ 1V	>60dB	359-1005-ND	3.06	2.30	1.53	EM9752N-514
17	Noise Cancelling	ø6.0 x 5.0	-51dB ±4dB	100-8k	2.0V	0.5mA	within -3dB @ 1.5V	>58dB	359-1015-ND	2.97	2.24	1.49	EM6050N-514

KNOWLES ACOUSTICS High Performance Audio Products

Omni-Directional Electret Microphones

CA Series: • Integral FET amplifier • Withstands severe environmental conditions • High resistance to mechanical shock • Sintered steel sound port treated with water repellent • 3-Wire configuration **EA Series:** • Integral FET amplifier • Electret condenser microphone • Rugged construction to withstand severe environmental conditions • High resistance to mechanical shock • 3-Wire configuration **EK Series:** • Integral FET amplifier • High electroacoustical sensitivity • Low vibration sensitivity • Low noise • 3-Wire configuration **FG Series:** • Integral FET amplifier • Wide, flat frequency response • Low noise performance • High electroacoustic sensitivity • 3-Wire configuration **WP Series:** • Integral FET amplifier • High electroacoustical sensitivity • Low noise • Low vibration sensitivity • Flat response down to very low frequency • Survives submersion in water • 3-Wire configuration

Dim. in mm.

Fig. 1

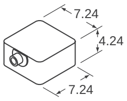


Fig. 2

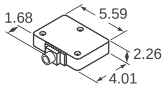


Fig. 3

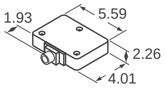


Fig. 4

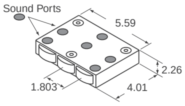


Fig. 5

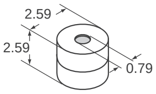


Fig. 6

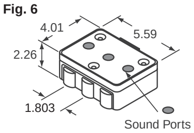


Fig.	Sensitivity @ 1KHz (dB re 1V/Pa)	(dB re 1V/0.1 Pa)	DC Supply Voltage	Max. Amplifier Current Drain (µA)	Max. "A" Weighted Noise (1KHz Equivalent SPL)	Output Impedance (Ohms)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
1	-40 ± 3	-60 ± 3	1.0 - 20	100	31.0 dB	2500	423-1013-ND	19.25	17.33	13.65	CA-2856
2	-39 ± 4	-59 ± 4	1.0 - 10	50	28.5 dB	3500	423-1005-ND	14.71	13.24	12.51	EA-1842
2	-33 ± 3	-53 ± 3	1.0 - 10	50	26.0 dB	4400	423-1006-ND	14.20	12.78	10.05	EK-3024
2	-33 ± 3	-53 ± 3	1.0 - 10	50	26.0 dB	4400	423-1007-ND	15.40	13.86	10.87	EK-3027
3	-33 ± 3	-53 ± 3	1.0 - 10	50	26.0 dB	4400	423-1009-ND	15.60	14.04	10.04	EK-3133
4	-33 ± 3	-53 ± 3	1.0 - 10	50	26.0 dB	4400	423-1008-ND	16.37	14.73	11.59	EK-3132
5	-33 ± 3	-53 ± 3	1.0 - 1.6	50	30.0 dB	4400	423-1000-ND	22.88	20.59	16.25	FG-3329
Water Resistant Microphone											
6	-34 ± 3	-54 ± 3	1.0 - 10	50	28.0 dB	4400	423-1012-ND	20.00	18.00	15.90	WP-3502

Noise-Canceling Close Talking Microphones

NR Series: • Integral FET amplifier • Diaphragm responds to pressure differential giving high rejection of background noise • Small size • High electroacoustical sensitivity • Low vibration sensitivity

CF Series: • Integral FET amplifier • Diaphragm responds to pressure differential giving high rejection of background noise • Withstands severe environmental conditions • Sound ports protected by woven mesh treated with water repellent • High resistance to mechanical shock

WP Series: • Integral FET amplifier • Survives submersion in 1m water • Corrosion resistant • Withstands explosive decompression • High resistance to mechanical shock • Small size

Fig. 1

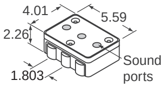


Fig. 2

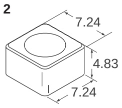


Fig.	Sensitivity @ 1KHz (dB re 1V/Pa)	(dB re 1V/0.1 Pa)	Microphone Configuration	DC Supply (V)	Max. Amplifier Current Drain (µA)	Nominal Output Imp. (Ohms)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
1	-32 ± 3	-52 ± 3	2-Wire	1.0 - 10	200	2500	423-1010-ND	18.00	16.20	13.60	NR-3160
2	-42 ± 3	-62 ± 3	3-Wire	1.0 - 10	50	3500	423-1014-ND	12.50	11.25	8.44	CF-2949
Waterproof Microphone											
1	-34 ± 3	-54 ± 3	2-Wire	1.0 - 10	300	2500	423-1011-ND	21.00	18.90	16.90	WP-3501

Waterproof Acoustical Transducers

MR Series: • Highly waterproof, no loss of performance after immersion in 15 m water • Corrosion resistant • Withstands explosive decompression • Excellent environmental performance • High resistance to mechanical shock • Wire leads attached

Fig. 1

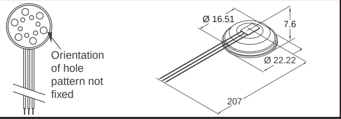


Fig. 2

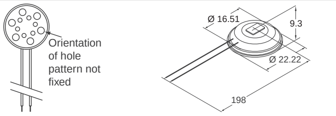


Fig.	Sensitivity @ 1 KHz (dB re 1V/Pa)	(dB re 1V/0.1 Pa)	DC Supply Voltage	Max. Amplifier Current Drain (µA)	DCR @ 20 dC ±10% (Ohms)	Max. "A" Weighted Noise (1KHz Equivalent SPL)	Load Condition (Ohms)	Output Imp. @ 1KHz (Ohms)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Electret Microphone													
1	-41 ± 4	-61 ± 4	1.0 - 20	50	—	30	10K	3.5K	423-1016-ND	46.68	42.01	33.24	MR-8406
Magnetic Microphone													
2	-67.5 ± 3	-87.5 ± 3	—	—	75.5	—	300	300	423-1015-ND	42.00	37.80	34.90	MR-3151

(Continued)

Piezo Ceramic, Accelerometer, Magnetic Balanced Armature

Dim in mm.

BL Series: • High sensitivity • Wide frequency range and flat response • Integral FET amplifier • High resistance to mechanical shock • BL-1785 typically used for instrumentation applications • 3-Wire configuration **BU Series:** • Ceramic vibration transducer • High vibration sensitivity and small size • Wide frequency range • Internal FET preamplifier • 2 or 3-Wire configuration **BJ Series:** • Balanced armature technology • High efficiency, stability and reliability • Self-shielded against external magnetic fields • Small size • Omni-directional • 2-Wire configuration

Fig. 1

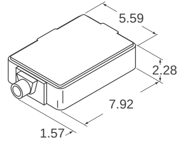


Fig. 2

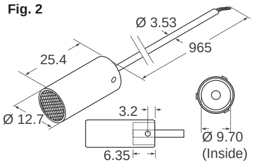


Fig. 3

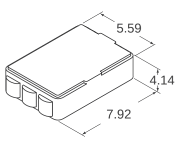


Fig. 4

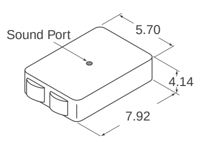


Fig.	Sensitivity @ 1KHz (dB re 1V/Pa)	Sensitivity @ 1KHz (dB re 1V/0.1 Pa)	Sensitivity @ 1KHz (dB re 1V/g)	DC Supply Voltage	Nominal DC Res. (Ohms)	Max. Amplifier Current Drain (µA)	Max. "A" Weighted Noise (1KHz Equivalent SPL)	Output Imp. @ 1KHz (Ohms)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Knowles Acoustics Part No.
Piezo Ceramic Microphones													
1	-49 ± 3	-69 ± 3	—	3.0	—	160	34.0 dB	4000	423-1003-ND	53.10	47.79	37.83	BL-1785
2	-49 ± 3	-69 ± 3	—	3.0	—	160	34.0 dB	4000	423-1002-ND	94.84	85.19	67.64	BL-1994
Accelerometer (Vibration-Sensing Transducer)													
3	—	—	-45.0 ± 4.5	1.5 - 10	—	50	—	5200	423-1004-ND	42.56	38.30	30.30	BU-1771
Magnetic Balanced Armature													
4	-55.5 ± 3	-75.5 ± 3	—	—	900	—	—	3900	423-1001-ND	21.21	19.09	16.05	BJ-1590

Specialty Speakers

CB Series: • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • Excellent sound quality • High speech intelligibility • Suitable for PCB mounting • Can function as a microphone or beeper • Stainless steel enclosure • 3 Position male header attached
CM Series: • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High acoustic efficiency enables sufficient sound output even when limited power is available • In-built static protection • Lightweight, matt-black, plastic housing • Ergonomically designed with rounded edge to fit the concha • High-quality sound output • Tailored bandwidth for superb speech intelligibility • Rugged construction • 2 Position flexi-circuit attached
MR Series: • Highly waterproof no loss of performance after immersion in 15m water • Corrosion resistant • Withstands explosive decompression • Excellent environmental performance • High resistance to mechanical shock • 3 Wire leads attached

Fig. 1

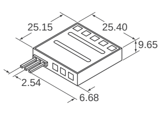


Fig. 2

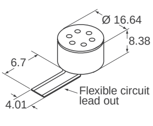


Fig. 3

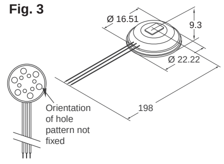
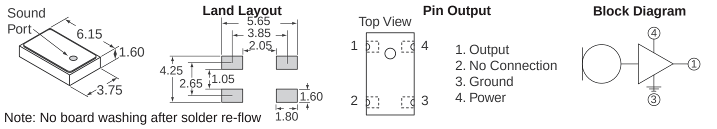


Fig.	Nominal DC Resistance (Ohms)	Impedance @ 1KHz (Ohms)	Sound Port Location	Nominal Output @ 1K Hz, Distance= 30cm (dB SPL)	Nominal Output @ 1K Hz, Sealed to IEC 318 Coupler (dB SPL)	Distortion Max %	Distortion @ Hz	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Knowles Acoustics Part No.
Handset Tranceiver												
1	4.2	12	Top Edge	73	—	15	500	423-1030-ND	20.00	17.00	15.40	CB-2844
	4.2	12	Face	73	—	15	500	423-1033-ND	20.00	17.00	15.40	CB-2846
	11.5	24	Face	73	—	15	500	423-1034-ND	20.00	17.00	15.40	CB-2847
	21.5	48	Face	73	—	15	500	423-1035-ND	20.00	17.00	15.40	CB-2848
	11.5	24	Top Edge	73	—	15	500	423-1031-ND	20.00	17.00	15.40	CB-2849
	21.5	48	Top Edge	73	—	15	500	423-1032-ND	20.00	17.00	15.40	CB-2850
Headset Speaker — Flexi-Circuit												
2	65	150	—	—	103	2	300	423-1036-ND	15.00	12.75	11.00	CM-3152
	8.5	30	—	—	103	2	300	423-1037-ND	15.00	12.75	11.00	CM-8431
Headset Speaker — Wire Lead Out												
3	10	21	—	—	100	5	300	423-1038-ND	48.00	40.80	33.24	MR-3243

SiSonic™ Silicon Microphone

Features: • Surface mount microphone • Compatible with standard surface mount soldering process • Automated pick 'n' place using standard equipment • No off-line soldering or insertion • Highly shock resistant • Low vibration sensitivity • Operation at high and low temperature • Ability to integrate additional electronics into package • Omni-directional

Applications: • Cellular phones • Corded and cordless telephones • PCs, PC tablets, laptops • PDAs, MP3 players • Automotive and automotive accessories • General electronics



Note: No board washing after solder re-flow

Sensitivity @ 1KHz (dB re 1V/Pa)	Freq. Range (Hz)	Voltage DC	Current Consumption	S/N Ratio	Typ. Operating Temp.	Built-in Capacitor	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape and Reel Pricing 1,250	Knowles Acoustics Part No.
-42 ± 4	100 to 10K	2.0	<0.250mA @2VDC	>55dB	-40° to +100°C	33pF, 10pF	423-1028-1-ND	7.50	6.60	5.50	423-1028-2-ND	4500.00/M	SP0101NC1-2
-42 ± 4	100 to 10K	3-5	<0.500mA @5VDC	>55dB	-40° to +100°C	33pF, 10pF	423-1029-1-ND	7.50	6.60	5.50	423-1029-2-ND	4500.00/M	SP0101NC2-2

Electret Condenser Microphones

Applications: • Headsets • Corded and cordless telephones • PCs, PC tablets, laptops • PDAs, MP3 players • Automotive and automotive accessories • General electronics • Operating temp. -25° to + 55°C

Fig. 1

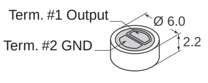


Fig. 2

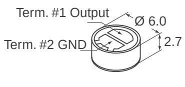


Fig. 3

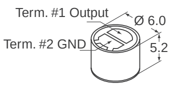


Fig. 4

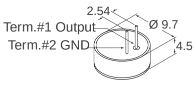


Fig. 5

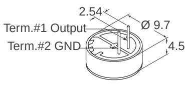


Fig. 6

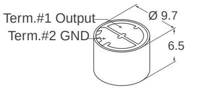


Fig. 7

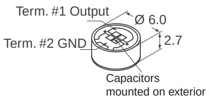


Fig. 8

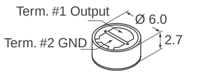


Fig. 9

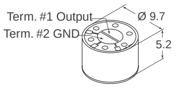


Fig. 10

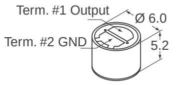


Fig. 11

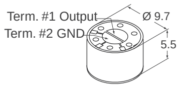
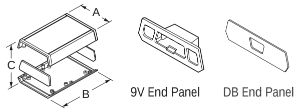


Fig.	Physical Size (mm)	Sensitivity @ 1KHz (dB re 1V/Pa)	Freq. Range (Hz)	Standard Operating Voltage	Max. Operating Voltage	Max. Current Consumption (mA)	Sensitivity Reduction	S/N Ratio	Built-in Capacitor	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Knowles Acoustics Part No.
Omni-Directional														
1	ø6.0 x 2.2	-42 ± 3	100-10K	2.0	10	0.500	within -3dB @ 1.5V	>52dB	33pF, 10pF	423-1017-ND	4.54	4.05	3.24	MD6022ASC-0
2	ø6.0 x 2.7	-38 ± 4	100-10K	3.0	10	0.500	within -3dB @ 2.5V	>55dB	None	423-1018-ND	3.93	3.51	2.81	MD6030ASZ-1
3	ø6.0 x 5.2	-44 ± 3	100-10K	2.0	10	0.500	within -3dB @ 1.5V	>55dB	None	423-1021-ND	2.13	1.90	1.52	MD6052ASZ-2
4	ø9.7 x 4.5	-41 ± 3	100-10K	2.0	10	0.500	within -3dB @ 1.5V	>55dB	10pF	423-1024-ND	.97	.87	.69	MD9745APA-1
5	ø9.7 x 4.5	-44 ± 2	100-10K	2.0	10	0.500	within -3dB @ 1.5V	>55dB	None	423-1023-ND	.99	.89	.71	MD9745APZ-F
6	ø9.7 x 6.5	-42 ± 4	100-10K	3.0	10	0.500	within -3dB @ 2.5V	>55dB	None	423-1026-ND	1.19	1.06	.85	MD9765ASZ-0
Noise Canceling														
7	ø6.0 x 2.7	-37 ± 4	300-6K	3.0	10	0.500	within -3dB @ 2.5V	>55dB	33pF, 10pF	423-1020-ND	4.04	3.61	2.89	MD6030NSC-0
8	ø6.0 x 2.7	-39 ± 4	300-6K	3.0	10	0.500	within -3db @ 2.5V	>55dB	None	423-1019-ND	3.93	3.51	2.81	MD6030NSZ-0
9	ø9.7 x 5.2	-38 ± 3	300-6K	3.0	10	0.500	within -3dB @ 2.5V	>55dB	None	423-1027-ND	2.76	2.46	1.97	MD9752NSZ-0
Unidirectional														
10	ø6.0 x 5.2	-42 ± 3	100-10K	2.0	10	0.500	within -3dB @ 1.5V	>55dB	None	423-1022-ND	3.21	2.87	2.30	MD6052USZ-1
11	ø9.7 x 5.5	-44 ± 2	100-10K	1.5	10	0.500	within -3dB @ 1.2V	>55dB	None	423-1025-ND	2.86	2.55	2.04	MD9755USZ-1

Plastic Electronic Enclosures

Models available with or without 9-volt battery compartments. All models come with vertical card guides and are bossed for mounting horizontal circuit boards. All enclosures are made from ABS GSM UL Rated 94 HB plastic.

Fig. 1 — "A" Series



9V End Panel
DB End Panel

Fig. 2 — Standard/ Standard with Insert

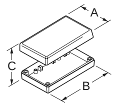


Fig. 3 — Standard Enclosure Copper Clad Board

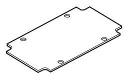


Fig. 4 — Gasket

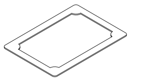


Fig. 5 — 9V Standard/ 9V Standard with Insert

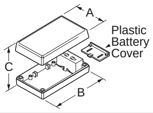


Fig. 6 — Slanted

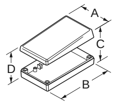


Fig. 7 — 9V Slanted

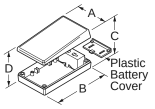


Fig. 8 — "C" Series

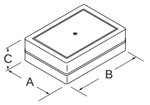


Fig. 9 — "M4", "M6", "M8" Series

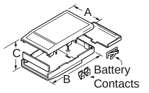
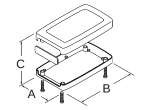


Fig. 10 — "H" Series



9V "H" Series

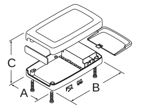
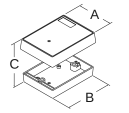


Fig. 11 — "G10A" Series



Accessories

Description	Digi-Key Part No.	Price Each 1	25	50	Serpac Model No.
H-65 Series Optional End Panel, Clear	SRH65-FPC-ND	2.11	1.68	1.45	2105CL
H-65 Series Optional End Panel, Infrared	SRH65-FPI-ND	3.94	3.13	2.69	2105IR
Rubber Feet 1xx, 2xx	SR50-ND	.19	.15	.13	SR50
Rubber Feet, Bumpon, Black	SR51-ND	.28	.23	.20	51
Rubber Feet For A Series	SR52-ND	.28	.23	.20	52
100 pc. Standoff Screws	SR60KIT-ND	61.93	49.15	42.27	60 KIT
100 pc. Standoff Posts	SR61KIT-ND	60.48	48.00	41.28	61 KIT
Standoff with Hole	SR60-ND	.38	.30	.26	60
Standoff with Post	SR61-ND	.32	.25	.22	61
Glue for SR60 and SR61	SR65-ND	11.69	9.28	7.98	65
Battery Clip; dbl. contact for M-6, M-8, H65-9V, H65-AA H67-9V, and H67-AA	SR71-ND	.61	.49	.42	71
Battery Clip; single contact for M-6, M-8, H65-9V, H65-AA, H67-9V, and H67-AA boxes	SR72-ND	.61	.49	.42	72
Battery Clip; battery contacts for M-4 boxes	SR74-ND	.61	.49	.42	74
Battery Clip; battery contacts for M-4 boxes	SR75-ND	.61	.49	.42	75
Screw #0 x 9/16 Flat; fits M-4	SR6001-ND	.20	.17	.14	6001
Screw #2 x 1/2 Flat; fits M-6, M-8, C-4, CH-4 and H Series	SR6003-ND	.20	.17	.14	6003
Screw #4 x 1/4 H/L Pan; fits 110-I, 05-S, 9V, 15-S, 9V Standoff Holes and All Bosses	SR6004-ND	.20	.17	.14	6004
Screw #4 x 3/8 H/L Pan; fits All S and SL Series	SR6005-ND	.20	.17	.14	6005
Screw #4 x 1/2 Flat; fits A Series and Wall-Mount Plates	SR6006-ND	.20	.17	.14	6006
Screw #2 x 3/4 Flat; fits M-6, IND M-8, IND C-8, CH-8	SR6007-ND	.20	.17	.14	6007
Screw #2 x 5/8 Flat; fits C-6 and CH-6	SR6008-ND	.20	.17	.14	6008

Dimensions — Inch (mm)				Digi-Key Part No.	Price Each			Serpac Series No.
A	B	C	D		1	25	50	
Fig. 1 — "A" Series								
2.60 (66.04)	4.25 (107.95)	.88 (22.35)	—	SRA20□-ND	6.14	4.88	4.20	A-20
2.60 (66.04)	4.25 (107.95)	1.12 (28.45)	—	SRA21□-ND	6.33	5.03	4.33	A-21
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27□-ND	9.23	7.33	6.30	A-27
5.10 (129.54)	5.30 (134.62)	1.71 (43.43)	—	SRA31□-ND	11.72	9.30	8.00	A-31
5.00 (127.00)	7.10 (180.34)	1.30 (33.02)	—	SRA41□-ND	13.10	10.40	8.95	A-41
5.00 (127.00)	7.10 (180.34)	1.62 (41.15)	—	SRA42□-ND	14.14	11.23	9.66	A-42
Fig. 1 — "A" Series - 9-Volt								
2.60 (66.04)	4.30 (109.22)	1.10 (27.94)	—	SRA21-9V□-ND	7.94	6.30	5.42	A-219V
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27-9V□-ND	12.41	9.85	8.48	A-279V
5.10 (129.54)	5.30 (134.62)	1.80 (45.72)	—	SRA31-9V□-ND	15.37	12.20	10.50	A-319V
5.00 (127.00)	7.10 (180.34)	1.30 (33.02)	—	SRA41-9V□-ND	15.31	12.15	10.45	A-419V
5.00 (127.00)	7.10 (180.34)	1.60 (40.64)	—	SRA42-9V□-ND	16.35	12.98	11.16	A-429V
Fig. 1 — "A" Series Optional End Panels								
A20 Series End Panel				SRA20-□□-ND	2.27	1.80	1.55	2003
A20 Series End Panel with DB9				SR2003-DB9B-ND	4.76	3.78	3.25	2003 DB9 BK
A20 Series End Panel with DB25				SR2003-DB25B-ND	4.76	3.78	3.25	2003 DB25 BK
A21 Series End Panel				SRA21-□□-ND	2.27	1.80	1.55	2005
A21 9V Series Black End Panel				SRA21-9VBK-ND	4.63	3.68	3.17	2006 BK
A21 Series End Panel with DB9				SR2005-DB9B-ND	4.76	3.78	3.25	2005 DB9 BK
A21 Series End Panel with DB25				SR2005-DB25B-ND	4.76	3.78	3.25	2005 DB25 BK
A27 Series End Panel				SRA27-□□-ND	2.43	1.93	1.66	2010
A27 9V Series Black End Panel				SRA27-9VBK-ND	4.82	3.83	3.29	2011 BK
A27 Series End Panel with DB9				SR2010-DB9B-ND	4.85	3.85	3.32	2010 DB9 BK
A27 Series End Panel with DB25				SR2010-DB25B-ND	4.85	3.85	3.32	2010 DB25 BK
A31 Series End Panel				SRA31-□□-ND	3.56	2.83	2.43	2015
A31 9V Series Black End Panel				SRA31-9VBK-ND	4.82	3.83	3.29	2016 BK
A31 Series End Panel with DB9				SR2015-DB9B-ND	5.76	4.58	3.94	2015 DB9 BK
A31 Series End Panel with DB25				SR2015-DB25B-ND	5.76	4.58	3.94	2015 DB25 BK
A41 Series End Panel				SRA41-□□-ND	3.12	2.48	2.13	2020
A41 9V Series Black End Panel				SRA41-9VBK-ND	5.07	4.03	3.47	2021 BK
A41 Series End Panel with DB9				SR2020-DB9B-ND	5.45	4.33	3.72	2020 DB9 BK
A41 Series End Panel with DB25				SR2020-DB25B-ND	5.45	4.33	3.72	2020 DB25 BK
A42 Series End Panel				SRA42-□□-ND	3.56	2.83	2.43	2024
A42 9V Series Black End Panel				SRA42-9VBK-ND	5.29	4.20	3.62	2025 BK
A42 Series End Panel with DB9				SR2024-DB9B-ND	5.76	4.58	3.94	2024 DB9 BK
A42 Series End Panel with DB25				SR2024-DB25B-ND	5.76	4.58	3.94	2024 DB25 BK
Fig. 2 — Standard								
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111□-ND	4.47	3.55	3.06	111
2.27 (57.67)	3.63 (92.20)	2.01 (51.05)	—	SR112□-ND	4.79	3.80	3.27	112
2.27 (57.67)	3.63 (92.20)	2.51 (63.75)	—	SR113□-ND	4.98	3.95	3.40	113
2.60 (66.04)	4.10 (104.14)	0.91 (23.11)	—	SR021□-ND	4.32	3.43	2.95	021
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031□-ND	5.20	4.13	3.55	031
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131□-ND	5.70	4.53	3.90	131
3.25 (82.55)	4.38 (111.25)	1.41 (35.81)	—	SR032□-ND	5.70	4.53	3.90	032
3.25 (82.55)	4.38 (111.25)	2.01 (51.05)	—	SR132□-ND	6.08	4.83	4.15	132
3.25 (82.55)	4.38 (111.25)	1.90 (48.26)	—	SR033□-ND	6.08	4.83	4.15	033
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133□-ND	6.43	5.10	4.39	133
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	—	SR151□-ND	6.71	5.33	4.58	151
3.25 (82.55)	5.63 (143.00)	1.40 (35.56)	—	SR052□-ND	6.52	5.18	4.46	052
3.25 (82.55)	5.63 (143.00)	2.00 (50.80)	—	SR152□-ND	7.02	5.58	4.80	152
3.25 (82.55)	5.63 (143.00)	1.90 (48.26)	—	SR053□-ND	7.02	5.58	4.80	053
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153□-ND	7.62	6.05	5.21	153
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051□-ND	6.14	4.88	4.20	051
4.88 (123.95)	6.88 (174.75)	0.90 (22.86)	—	SR071□-ND	8.88	7.05	6.07	071
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171□-ND	9.73	7.73	6.65	171
4.88 (123.95)	6.88 (174.75)	1.41 (35.81)	—	SR072□-ND	10.40	8.25	7.10	072
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172□-ND	10.68	8.48	7.29	172
4.88 (123.95)	6.88 (174.75)	1.91 (48.51)	—	SR073□-ND	10.55	8.38	7.21	073
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173□-ND	11.21	8.90	7.66	173
4.88 (123.95)	14.21 (360.93)	2.01 (51.05)	—	SR182□-ND	16.44	13.05	11.23	182
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191□-ND	14.62	11.60	9.98	191
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193□-ND	15.28	12.13	10.43	193
6.35 (161.29)	9.50 (241.30)	0.91 (23.11)	—	SR091□-ND	13.61	10.80	9.29	091
6.35 (161.29)	9.50 (241.30)	1.90 (48.26)	—	SR093□-ND	14.36	11.40	9.81	093
Fig. 2 — Standard with Insert (Non-Textured Top)								
2.25 (57.15)	3.60 (91.44)	1.00 (25.40)	—	SR110-I□-ND	3.87	3.08	2.65	110-I
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111-I□-ND	4.47	3.55	3.06	111-I
2.60 (66.04)	4.10 (104.14)	0.91 (23.11)	—	SR021-I□-ND	4.32	3.43	2.95	021-I
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031-I□-ND	5.20	4.13	3.55	031-I
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131-I□-ND	5.70	4.53	3.90	131-I
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-I□-ND	6.08	4.83	4.15	033-I
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133-I□-ND	6.43	5.10	4.39	133-I
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-I□-ND	6.71	5.33	4.58	151-I
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-I□-ND	7.62	6.05	5.21	153-I
3.26 (82.80)	5.63 (143.00)	0.91 (22.86)	—	SR051-I□-ND	6.14	4.88	4.20	051-I
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-I□-ND	7.02	5.58	4.80	053-I
4.88 (123.95)	6.88 (174.75)	0.90 (22.86)	—	SR071-I□-ND	8.88	7.05	6.07	071-I
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171I□-ND	9.73	7.73	6.65	171I
4.88 (123.95)	6.88 (174.75)	1.41 (35.81)	—	SR072-I□-ND	10.40	8.25	7.10	072-I
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172-I□-ND	10.68	8.48	7.29	172-I
4.88 (123.95)	6.88 (174.75)	1.91 (48.51)	—	SR073-I□-ND	10.55	8.38	7.21	073-I
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173-I□-ND	11.21	8.90	7.66	173-I
4.88 (123.95)	14.21 (360.93)	2.01 (51.05)	—	SR182I□-ND	16.44	13.05	11.23	182I
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191I□-ND	14.62	11.60	9.98	191-I
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193I□-ND	15.28	12.13	10.43	193I
6.35 (161.29)	9.50 (241.30)	0.91 (23.11)	—	SR091-I□-ND	13.61	10.80	9.29	091-I
6.35 (161.29)	9.50 (241.30)	1.90 (48.26)	—	SR093I□-ND	14.36	11.40	9.81	093I
Fig. 2 — Standard Wall Mount								
3.25 (82.55)	4.38 (111.25)	0.91 (23.11)	—	SR031-W□-ND	6.49	5.15	4.43	031-W
3.25 (82.55)	4.38 (111.25)	1.41 (35.81)	—	SR032-W□-ND	6.96	5.53	4.76	032-W
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-W□-ND	7.34	5.83	5.01	033-W
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-W□-ND	8.91	7.08	6.09	151-W
3.25 (82.55)	5.63 (143.00)	2.01 (51.05)	—	SR152-W□-ND	9.61	7.63	6.56	152-W
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-W□-ND	10.08	8.00	6.88	153-W
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051-W□-ND	8.91	7.08	6.09	051-W
3.26 (82.80)	5.63 (143.00)	1.41 (35.81)	—	SR052-W□-ND	9.61	7.63	6.56	052-W
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-W□-ND	9.86	7.83	6.73	053-W
Fig. 2 — Standard Wall Mount with Insert								
3.25 (82.55)	4.38 (111.25)	0.91 (23.11)	—	SR031-WI□-ND	6.49	5.15	4.43	031-WI
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-WI□-ND	7.34	5.83	5.01	033-WI
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-WI□-ND	8.91	7.08	6.09	151-WI
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-WI□-ND	10.08	8.00	6.88	153-WI
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051-WI□-ND	8.91	7.08	6.09	051-WI
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-WI□-ND	9.86	7.83	6.73	053-WI
Fig. 3 — Standard Enclosure Prototyping Boards — .1" (2.54mm) Grid Perfboard								
For Box #'s "SRx1x"				SR310-ND	9.83	7.80	6.71	310SR
For Box #'s "SRx3x"				SR330-ND	19.12	15.18	13.06	330SR
For Box #'s "SRx5x"				SR350-ND	22.21	17.63	15.16	350SR
For Box #'s "SRx7x"				SR370-ND	28.38	22.53	19.38	370SR
Fig. 3 — Standard Enclosure Prototyping Boards — Copper Clad Board (1 Side)								
For Box #'s "SRx1x"				SR410-ND	9.83	7.80	6.71	410SR
For Box #'s "SRx3x"				SR430-ND	10.74	8.53	7.34	430SR
For Box #'s "SRx5x"				SR450-ND	11.69	9.28	7.98	450SR
For Box #'s "SRx7x"				SR470-ND	14.74	11.70	10.07	470SR
Fig. 4 — Gaskets								
Gasket, 3.63" x 2.27" (92.20mm x 57.66mm); fits 111, 111-1, 112, and 113				SRPS-11-ND	3.75	2.98	2.56	PS-11
Gasket, 4.38" x 3.25" (111.25mm x 82.55mm); fits 131, 131-1, 132, 132-1; 133, and 133-1				SRPS-13-ND	4.16	3.30	2.84	PS-13
Gasket, 5.63" x 3.25" (143.00mm x 82.55mm); fits 151, 151-1, 152, 153, and 153-1				SRPS-15-ND	4.88	3.88	3.34	PS-15
Fig. 5 — 9-Volt Standard								
2.60 (66.04)	4.10 (104.14)	1.51 (38.10)	—	SR211□-ND	5.45	4.33	3.72	211
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231□-ND	6.71	5.33	4.58	231
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232□-ND	7.09	5.63	4.84	232
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233□-ND	7.40	5.88	5.06	233
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251□-ND	8.19	6.50	5.59	251
3.25 (82.55)	5.63 (143.00)	2.00 (50.80)	—	SR252□-ND	8.73	6.93	5.96	252
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253□-ND	9.14	7.25	6.24	253
4.88 (123.95)	6.88 (174.75)	1.51 (38.35)	—	SR271□-ND	10.87	8.63	7.42	271
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272□-ND	11.66	9.25	7.96	272
4.88 (123.95)	6.88 (174.75)	2.51 (63.75)	—	SR273□-ND	11.84	9.40	8.09	273
Fig. 5 — 9-Volt Standard with Insert (Non-Textured Top)								
2.60 (66.04)	4.10 (104.14)	1.51 (38.35)	—	SR221-I□-ND	5.45	4.33	3.72	211-I
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-I□-ND	6.71	5.33	4.58	231-I
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-I□-ND	7.40	5.88	5.06	233-I
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-I□-ND	8.19	6.50	5.59	251-I
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-I□-ND	9.14	7.25	6.24	253-I
4.88 (123.95)	6.88 (174.75)	1.51 (38.35)	—	SR271-I□-ND	10.87	8.63	7.42	271-I
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272-I□-ND	11.66	9.25	7.96	272-I
4.88 (123.95)	6.88 (174.75)	2.51 (63.75)	—	SR273-I□-ND	11.84	9.40	8.09	273-I
Fig. 5 — 9-Volt Standard Wall Mount								
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-W□-ND	7.37	5.85	5.04	231-W
3.25 (82.55)	4.38 (111.25)	2.01 (51.05)	—	SR232-W□-ND	7.84	6.23	5.36	232-W
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-W□-ND	8.19	6.50	5.59	233-W
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-W□-ND	9.80	7.78	6.69	251-W
3.25 (82.55)	5.63 (143.00)	2.01 (51.05)	—	SR252-W□-ND	10.49	8.33	7.16	252-W
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-W□-ND	10.65	8.45	7.27	253-W

Note: **Box color** □: **B** = Black, **G** = Gray, **A** = Almond **Lens color** □□ **IR** = Infrared, **CL** = Clear, **BK** = Black

(Continued)

SERPAC Electronic Enclosures Plastic Electronic Enclosures *(Cont.)*

Dimensions — Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
Fig. 5 — 9-Volt Standard Wall Mount with Insert (Non-Textured Top)								
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-WI□-ND	7.37	5.85	5.04	231-WI
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-WI□-ND	8.19	6.50	5.59	233-WI
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-WI□-ND	9.80	7.78	6.69	251-WI
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-WI□-ND	10.65	8.45	7.27	253-WI
Fig. 6 — Standard Slant								
3.25 (82.55)	5.63 (143.00)	0.90 (22.86)	0.39 (9.91)	SR05S□-ND	6.14	4.88	4.20	05S
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	0.97 (24.64)	SR15-S□-ND	6.71	5.33	4.58	15-S
6.88 (174.75)	4.88 (123.95)	1.88 (47.75)	0.90 (22.86)	SR07S□-ND	8.88	7.05	6.07	07-S
6.88 (174.75)	4.88 (123.95)	2.48 (62.99)	1.50 (38.10)	SR17S□-ND	9.73	7.73	6.65	17-S
Fig. 6 — Standard Slant Wall Mount								
3.25 (82.55)	5.63 (143.00)	0.90 (22.86)	0.39 (9.91)	SR05SW□-ND	6.49	5.15	4.43	05-SW
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	1.0 (25.4)	SR15SW□-ND	7.34	5.83	5.01	15-SW
Fig. 6 — 9-Volt Standard Slant Wall Mount								
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	1.0 (25.4)	SR25SW□-ND	8.82	7.00	6.02	25-SW
Fig. 7 — 9-Volt Slanted								
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	0.97 (24.64)	SR25-S□-ND	8.19	6.50	5.59	25-S
6.88 (174.75)	4.88 (123.95)	2.48 (62.99)	1.50 (38.10)	SR27S□-ND	10.87	8.63	7.42	27-S
Fig. 8 — “C” Series								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4□-ND	3.24	2.58	2.22	C-4
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6□-ND	3.24	2.58	2.22	C-6
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8□-ND	3.24	2.58	2.22	C-8
1.85 (46.99)	5.00 (127.00)	1.00 (25.40)	—	SCR28□-ND	4.22	3.35	2.89	C-28
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10□-ND	3.53	2.80	2.41	C-10
2.40 (60.96)	3.75 (95.25)	1.00 (25.40)	—	SCR12□-ND	4.10	3.25	2.80	C-12
Fig 8 — "C" Series Translucent								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4T□-ND*	5.36	4.25	3.66	C-4 TR
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6T□-ND*	5.36	4.25	3.66	C-6 TR
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8T□-ND*	5.36	4.25	3.66	C-8 TR
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10T□-ND*	6.27	4.98	4.28	C-10 TR
Fig 8 — "C" Series with Key Holder								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4KH□-ND	4.60	3.65	3.14	C-4 KH
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6KH□-ND	4.60	3.65	3.14	C-6 KH
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8KH□-ND	4.60	3.65	3.14	C-8 KH
Fig 8 — "C" Series with Pocket Clip								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4PC□-ND	6.02	4.78	4.11	C-4 PC
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6PC□-ND	6.02	4.78	4.11	C-6 PC
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8PC□-ND	6.02	4.78	4.11	C-8 PC
1.85 (46.99)	5.00 (127.00)	1.00 (25.40)	—	SCR28PC□-ND	6.99	5.55	4.78	C-28 PC
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10PC□-ND	6.52	5.18	4.46	C-10 PC
2.40 (60.96)	3.75 (95.25)	1.00 (25.40)	—	SCR12PC□-ND	6.87	5.45	4.69	C-12 PC
Fig. 8 — “CH” Series								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4□-ND	3.24	2.58	2.22	CH-4
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6□-ND	3.24	2.58	2.22	CH-6
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8□-ND	3.24	2.58	2.22	CH-8
Fig. 8 — “CH” Series with Key Holder								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4KH□-ND	4.60	3.65	3.14	CH-4 KH
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6KH□-ND	4.60	3.65	3.14	CH-6 KH
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8KH□-ND	4.60	3.65	3.14	CH-8 KH
Fig. 8 — “CH” Series with Pocket Clip								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4PC□-ND	6.02	4.78	4.11	CH-4 PC
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6PC□-ND	6.02	4.78	4.11	CH-6 PC
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8PC□-ND	6.02	4.78	4.11	CH-8 PC
Fig. 9 — "M" Series								
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4□-ND	5.83	4.63	3.98	M-4
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6□-ND	7.21	5.73	4.93	M-6
2.40 (60.96)	6.97 (177.04)	0.86 (21.84)	—	SRM8□-ND	8.54	6.78	5.83	M-8
Fig. 9 — "M" Series Translucent								
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4T□-ND*	10.02	7.95	6.84	M-4 TR
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6T□-ND*	12.51	9.93	8.54	M-6 TR
Fig. 9 — "M" Series with Pocket Clip								
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4PC□-ND	8.10	6.43	5.53	M-4 PC
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6PC□-ND	9.80	7.78	6.69	M-6 PC
2.40 (60.96)	6.97 (177.04)	0.85 (21.59)	—	SRM8PC□-ND	11.66	9.25	7.96	M-8 PC
Fig. 9 — "M" Series with External Screws								
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6IND□-ND	8.28	6.58	5.66	M-6 IND
2.40 (60.96)	6.97 (177.04)	0.85 (21.59)	—	SRM8IND□-ND	9.61	7.63	6.56	M-8 IND
Fig. 11 — “G10” Series — No Insert or Access Hole								
4.38 (111.25)	3.25 (82.55)	0.885 (22.48)	—	SRG10□-ND	6.71	5.33	4.58	G10
Fig. 11 — “G10A” Series with Insert and Access Hole								
4.38 (111.25)	3.25 (82.55)	0.885 (22.48)	—	SRG10A□-ND	6.71	5.33	4.58	G10A
“M” Series Lenses								
M4 Series Clear				SRM4-FPC-ND	3.65	2.90	2.50	4004CL
M4 Series Infrared				SRM4-FPI-ND	3.94	3.13	2.69	4004IR
M6/8 Series Clear				SRM6/8-FPC-ND	3.65	2.90	2.50	4008CL
M6/8 Series Infrared				SRM6/8-FPI-ND	3.94	3.13	2.69	4008IR
Fig. 10 — “H” Series (Standard, AC, 9V, or AA)								
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65□-ND	6.77	5.38	4.63	H-65
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AA□-ND	7.65	6.08	5.23	H-65 AA
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AC□-ND	6.77	5.38	4.63	H-65 AC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9V□-ND	7.43	5.90	5.08	H-65 9V
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67□-ND	6.93	5.50	4.73	H-67
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AA□-ND	7.84	6.23	5.36	H-67 AA
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AC□-ND	6.93	5.50	4.73	H-67 AC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-9V□-ND	7.62	6.05	5.21	H-67 9V
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75□-ND	8.63	6.85	5.90	H-75
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75-9V□-ND	9.58	7.60	6.54	H-75 9V
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75-4AA□-ND	11.59	9.20	7.92	H-75 4AA
Fig. 10 — “H” Series Translucent								
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65T□-ND*	11.72	9.30	8.00	H-65 TR
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AAT□-ND*	13.29	10.55	9.08	H-65 AA TR
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9VT□-ND*	12.95	10.28	8.84	H-65 9V TR
Fig. 10 — “H” Series with Pocket Clip								
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-PC□-ND	9.54	7.58	6.52	H-65 PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AAPC□-ND	10.43	8.28	7.12	H-65 AA-PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-ACPC□-ND	9.54	7.58	6.52	H-65 AC-PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9VPC□-ND	10.21	8.10	6.97	H-65 9V-PC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AAPC□-ND	10.62	8.43	7.25	H-67 AA-PC
2.75 (69.85)	4.94 (125.48)	0.28 (7.11)	—	SRH67-ACPC□-ND	9.70	7.70	6.63	H-67 AC-PC
2.75 (69.85)	4.94 (125.48)	0.28 (7.11)	—	SRH67-PC□-ND	9.70	7.70	6.63	H-67 PC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-9VPC□-ND	10.40	8.25	7.10	H-67 9V-PC
EMI Enclosures (No Battery Clips)								
Fig. 1 — “A” Series - EMI - 9-Volt								
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27E-B-ND	17.96	14.25	12.26	A-219V
Fig. 2 — Standard								
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111E-B-ND	4.50	3.58	3.08	111-EMI-BLACK
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131E-B-ND	8.10	6.43	5.53	131-EMI-BLACK
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151E-B-ND	9.61	7.63	6.56	151-EMI-BLACK
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172E-B-ND	15.44	12.25	10.54	172-EMI-BLACK
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191E-B-ND	21.23	16.85	14.50	191-EMI-BLACK
Fig. 5 — 9-Volt Standard								
2.60 (66.04)	4.10 (104.14)	1.50 (38.10)	—	SR211E-B-ND	7.75	6.15	5.29	211-EMI-BLACK
Fig. 5 — 9-Volt with Insert (Non-Textured Top)								
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231E-B-ND	9.61	7.63	6.56	231-I-EMI-BLACK
Fig. 6 — Standard Slant								
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	.968 (24.59)	SR015E-B-ND	9.61	7.63	6.56	15-S-EMI-BLACK
Fig. 9 — Remote “M” Series								
2.40 (60.96)	4.15 (105.41)	.85 (21.59)	—	SRM6E-9VB-ND	10.33	8.20	7.06	M-6-EMI-BLACK

Note: **Box color** □: **B** = Black, **G** = Gray, **A** = Almond ***Translucent Box color** □: **L** = Translucent Blue, **G** = Translucent Green, **S** = Translucent Gray, **R** = Translucent Red

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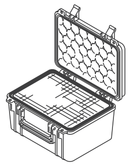
SERPAC Electronic Enclosures R-Series Enclosures

Features:

- SR-RX = Flame Retardant, UV protected, Chemical resistant
- Unbreakable light-weight structural resin
- O-Ring watertight/airtight seal
- Pressure purge valve under latch
- Ergonomic handle
- Corrosion proof
- Material: SR-R Polypropylen, SR-RX PVC



Dimensions — L x W x H (Inch) Internal	External	Digi-Key Part No.	Price Each 1	10	Serpac Model No.
R-Series Case					
Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-□-ND	17.48	14.57	R-120
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-□-ND	26.84	22.37	R-300
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-□-ND	51.76	43.14	R-520
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-□-ND	84.56	70.47	R-720
With Plastic Lock Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-PLL□-ND	27.48	22.91	R-120 PLL
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-PLL□-ND	36.84	30.71	R-300 PLL
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-PLL□-ND	61.76	51.47	R-520 PLL
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-PLL□-ND	94.56	78.81	R-720 PLL
With Metal Lock Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-MLL□-ND	31.48	26.24	R-120 MLL
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-MLL□-ND	40.84	34.04	R-300 MLL
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-MLL□-ND	65.76	54.81	R-520 MLL
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-MLL□-ND	98.56	82.14	R-720 MLL
With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-F□-ND	19.54	16.29	R-120 FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-F□-ND	31.56	26.31	R-300 FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-F□-ND	59.12	49.27	R-520 FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-F□-ND	97.88	81.57	R-720 FOAM
With Plastic Lock With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-PLLF□-ND	29.54	24.62	R-120 PLL FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-PLLF□-ND	41.56	34.64	R-300 PLL FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-PLLF□-ND	69.12	57.61	R-520 PLL FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-PLLF□-ND	107.88	89.91	R-720 PLL FOAM
With Metal Lock With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-MLLF□-ND	33.54	27.96	R-120 MLL FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-MLLF□-ND	45.56	37.97	R-300 MLL FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-MLLF□-ND	73.12	60.94	R-520 MLL FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-MLLF□-ND	111.88	93.24	R-720 MLL FOAM

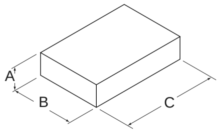
Note: □ = Case Color: **B** = Black; **G** = Gray; **Y** = Yellow; **O** = Orange

Dimensions — L x W x H (Inch) Internal	External	Digi-Key Part No.	Price Each 1	10	Serpac Model No.
RX-Series Black Case					
Without Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-B-ND	28.96	24.14	RX-120 BLACK
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-B-ND	44.58	37.16	RX-300 BLACK
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-B-ND	82.62	68.86	RX-520 BLACK
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-B-ND	135.06	112.56	RX-720 BLACK
With Plastic Lock Without Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-PLLB-ND	38.96	32.47	RX-120 PLL BLACK
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-PLLB-ND	54.58	45.49	RX-300 PLL BLACK
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-PLLB-ND	92.62	77.19	RX-520 PLL BLACK
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-PLLB-ND	145.06	120.89	RX-720 PLL BLACK
With Metal Lock Without Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-MLLB-ND	42.96	35.81	RX-120 MLL BLACK
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-MLLB-ND	58.58	48.82	RX-300 MLL BLACK
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-MLLB-ND	96.62	80.52	RX-520 MLL BLACK
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-MLLB-ND	149.06	124.23	RX-720 MLL BLACK
With Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-FB-ND	32.40	27.01	RX-120 BLACK FOAM
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-FB-ND	52.46	43.72	RX-300 BLACK FOAM
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-FB-ND	94.40	78.67	RX-520 BLACK FOAM
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-FB-ND	195.36	162.81	RX-720 BLACK FOAM
With Plastic Lock With Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-PLLFB-ND	42.40	35.34	RX-120 PLL BLACK FOAM
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-PLLFB-ND	62.46	52.06	RX-300 PLL BLACK FOAM
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-PLLFB-ND	104.40	87.01	RX-520 PLL BLACK FOAM
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-PLLFB-ND	205.36	171.14	RX-720 PLL BLACK FOAM
With Metal Lock With Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-MLLFB-ND	46.40	38.67	RX-120 MLL BLACK FOAM
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-MLLFB-ND	66.46	55.39	RX-300 MLL BLACK FOAM
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-MLLFB-ND	108.40	90.34	RX-520 MLL BLACK FOAM
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-MLLFB-ND	209.36	174.48	RX-720 MLL BLACK FOAM
Description	**Series**	**Digi-Key Part No.**	**Price Each 1**	**10**	**Serpac Model No.**
“R” Series Panel Kits					
Top Plate	R120	SR7150T-ND	18.28	15.24	7150T
	R300	SR7350T-ND	25.90	21.59	7350T
	R520	SR7550T-ND	30.04	25.04	7550T
	R720	SR7750T-ND	42.36	35.31	7750T
Bottom Plate	R120	SR7150B-ND	21.00	17.51	7150B
	R300	SR7350B-ND	27.62	23.02	7350B
	R520	SR7550B-ND	32.80	27.34	7550B
	R720	SR7750B-ND	46.94	39.12	7750B

NOTE: Hardware supplied with kits. Bottom plate kit includes perimeter seal and o-rings. Panel kits for R-Series only.

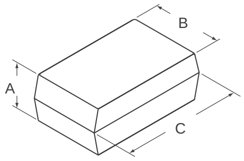
Enclosures

Fig. 1 — Aluminum Chassis



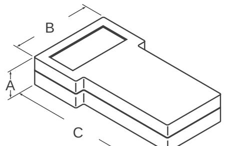
Welded at stress points for assured, maximum strength and rigidity. Sides folded in at bottom for additional support. Bottom plate easily attached. Natural finish.

Fig. 2 — Plasti Box



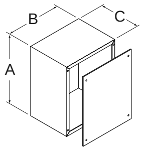
ABS plastic, UL94-HB flammability rating, suggested service temperature -40°C to +60°C.

Fig. 3 — Grabbers



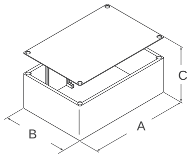
ABS plastic in a light gray finish, with UL94V-0 flammability rating.

Fig. 4 — Utility Cabinets



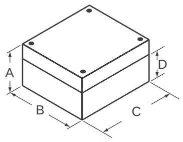
Available in 20 gauge steel or .04" aluminum. Sturdy, all-welded body. "CU" prefix: Steel with Metallic Gray, "AU" prefix; Aluminum alloy in Natural.

Fig. 5 — ABS Plastic Utilibox



Aluminum or plastic cover.

Fig. 6 — Die-Cast and Plastic Enclosures

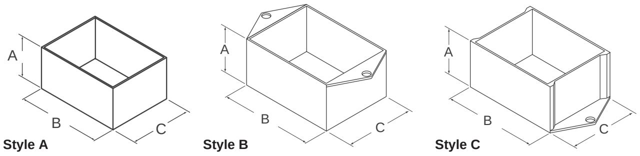


Style 1: Light gray polycarbonate body and cover. UV stabilized, UL94V-2 flammability rating.

Style 2: Light gray polycarbonate body and clear polycarbonate cover. UV stabilized, UL94V-2 flammability rating.

Style 3: Dark gray ABS body and cover. UL94-HB flammability rating.

Fig. 7 — Potting Boxes



Style A **Style B** **Style C**

ABS thermoplastic. Flammability rating: UL94V-0. Service temperature -20°C to +70°C. Optional close-fitting covers are available in all sizes.

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 1 — Chassis								
Alum./Natural	1.50 (38.1)	4.00 (100.4)	6.00 (152.4)	377-1000-ND	8.90	7.45	6.70	AC-1405
	2.00 (50.8)	6.00 (152.4)	8.00 (203.2)	377-1001-ND	11.30	9.40	8.45	AC-1413
	2.50 (63.5)	8.00 (203.2)	10.00 (254)	377-1002-ND	18.30	15.30	13.75	AC-1418
	2.50 (63.5)	8.00 (203.2)	12.00 (304.8)	377-1003-ND	22.70	18.90	17.00	AC-1419
	5.00 (127)	10.00 (254)	17.00 (431.8)	377-1004-ND	52.10	43.50	39.15	AC-1422
	5.00 (127)	13.00 (330.2)	17.00 (431.8)	377-1005-ND	60.00	50.10	45.10	AC-1426
	3.00 (76.2)	14.00 (355.6)	17.00 (431.8)	377-1006-ND	43.70	36.45	32.80	AC-1427
	4.00 (101.6)	15.00 (381)	17.00 (431.8)	377-1007-ND	59.30	49.50	44.55	AC-1428
	6.00 (152.4)	15.00 (381)	17.00 (431.8)	377-1008-ND	84.00	70.15	63.15	AC-1429
	3.00 (76.2)	17.00 (431.8)	17.00 (431.8)	377-1009-ND	50.90	42.50	38.25	AC-1430
	4.00 (101.6)	17.00 (431.8)	17.00 (431.8)	377-1010-ND	59.60	49.75	44.81	AC-1431
	2.00 (50.8)	5.00 (127)	7.00 (177.8)	377-1011-ND	9.90	8.20	7.40	AC-402
	2.00 (50.8)	5.00 (127)	9.50 (241.3)	377-1012-ND	12.00	9.95	8.95	AC-403
	3.00 (76.2)	5.00 (127)	10.00 (254)	377-1013-ND	15.20	12.65	11.40	AC-404
	2.00 (50.8)	7.00 (177.8)	7.00 (177.8)	377-1014-ND	10.40	8.60	7.75	AC-405
	2.00 (50.8)	7.00 (177.8)	9.00 (228.6)	377-1015-ND	12.50	10.40	9.35	AC-406
	2.00 (50.8)	7.00 (177.8)	11.00 (279.4)	377-1016-ND	14.50	12.05	10.85	AC-407
	3.00 (76.2)	7.00 (177.8)	12.00 (304.8)	377-1017-ND	19.20	16.05	14.45	AC-408
	2.00 (50.8)	7.00 (177.8)	13.00 (330.2)	377-1018-ND	15.80	13.25	11.95	AC-409
	3.00 (76.2)	7.00 (177.8)	15.00 (381)	377-1019-ND	25.00	20.85	18.75	AC-411
	3.00 (76.2)	8.00 (203.2)	17.00 (431.8)	377-1020-ND	26.00	21.80	19.60	AC-412
	3.00 (76.2)	10.00 (254)	12.00 (304.8)	377-1021-ND	29.20	24.45	22.00	AC-413
	3.00 (76.2)	10.00 (254)	14.00 (355.6)	377-1022-ND	29.70	24.90	22.40	AC-414
	2.00 (50.8)	10.00 (254)	17.00 (431.8)	377-1023-ND	26.50	22.15	19.95	AC-415
	3.00 (76.2)	10.00 (254)	17.00 (431.8)	377-1024-ND	31.00	25.85	23.25	AC-416
	3.00 (76.2)	12.00 (304.8)	17.00 (431.8)	377-1025-ND	32.80	27.35	24.60	AC-418
	2.00 (50.8)	13.00 (330.2)	17.00 (431.8)	377-1026-ND	33.50	27.90	25.10	AC-419
	3.00 (76.2)	13.00 (330.2)	17.00 (431.8)	377-1027-ND	38.70	32.35	29.10	AC-420
	3.00 (76.2)	5.00 (127)	9.50 (241.3)	377-1028-ND	15.10	12.60	11.35	AC-421
	3.00 (76.2)	8.00 (203.2)	12.00 (304.8)	377-1029-ND	23.00	19.20	17.30	AC-424
	4.00 (101.6)	10.00 (254)	17.00 (431.8)	377-1030-ND	44.70	37.35	33.60	AC-427
	4.00 (101.6)	13.00 (330.2)	17.00 (431.8)	377-1031-ND	47.00	39.20	35.30	AC-428
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1032-ND	12.70	10.60	9.55	AC-429
	3.00 (76.2)	4.00 (101.6)	6.00 (152.4)	377-1033-ND	11.20	9.30	8.35	AC-430
	2.00 (50.8)	4.00 (101.6)	6.00 (152.4)	377-1034-ND	9.10	7.60	6.85	AC-431

Chassis Bottom Plates

Color	Dimensions - Inch (mm) Fits Width	Chassis Length	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Alum./Natural	4.00 (101.6)	6.00 (152.4)	377-1035-ND	4.60	3.85	3.45	BPA-1505
	6.00 (152.4)	8.00 (203.2)	377-1036-ND	6.50	5.35	4.80	BPA-1513
	8.00 (203.2)	10.00 (254)	377-1037-ND	8.00	6.65	6.00	BPA-1518
	8.00 (203.2)	12.00 (304.8)	377-1038-ND	9.70	8.10	7.30	BPA-1519
	8.00 (203.2)	17.00 (431.8)	377-1039-ND	10.00	8.40	7.55	BPA-1520
	10.00 (254)	12.00 (304.8)	377-1040-ND	9.70	8.10	7.30	BPA-1523
	10.00 (254)	14.00 (355.6)	377-1041-ND	9.70	8.10	7.30	BPA-1524
	12.00 (304.8)	17.00 (431.8)	377-1042-ND	13.90	11.65	10.50	BPA-1528
	14.00 (355.6)	17.00 (431.8)	377-1043-ND	14.70	12.30	11.05	BPA-1529
	15.00 (381)	17.00 (431.8)	377-1044-ND	18.40	15.35	13.80	BPA-1530
	17.00 (431.8)	17.00 (431.8)	377-1045-ND	20.40	17.05	15.35	BPA-1531
	5.00 (127)	7.00 (177.8)	377-1046-ND	4.50	3.75	3.40	BPA-1589
	5.00 (127)	9.50 (241.3)	377-1047-ND	4.60	3.85	3.45	BPA-1590
	5.00 (127)	10.00 (254)	377-1048-ND	4.50	3.75	3.40	BPA-1591
	7.00 (177.8)	7.00 (177.8)	377-1049-ND	4.50	3.75	3.40	BPA-1592
	7.00 (177.8)	9.00 (228.6)	377-1050-ND	5.50	4.60	4.15	BPA-1593
	7.00 (177.8)	11.00 (279.4)	377-1051-ND	5.70	4.75	4.30	BPA-1594
	7.00 (177.8)	12.00 (304.8)	377-1052-ND	6.30	5.25	4.75	BPA-1595
	10.00 (254)	17.00 (431.8)	377-1053-ND	10.30	8.65	7.80	BPA-1597
	13.00 (330.2)	17.00 (431.8)	377-1054-ND	14.30	11.90	10.70	BPA-1598

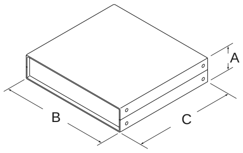
Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 2 — Plasti Box							
Gray	1.50 (38.1)	2.25 (57.15)	3.62 (91.95)	377-1161-ND	5.40	4.50	PT-11308-G
	1.50 (38.1)	3.25 (82.55)	5.62 (142.75)	377-1157-ND	10.30	8.60	PBS-11327-G
	2.48 (62.99)	3.25 (82.55)	5.62 (142.75)	377-1162-ND	9.80	8.20	PT-11388-G
	1.52 (38.61)	3.25 (82.55)	4.37 (110.99)	377-1158-ND	4.80	4.00	PBS-11532-G
	1.52 (38.61)	3.25 (82.55)	5.62 (142.75)	377-1159-ND	5.50	4.60	PS-11543-G
	1.52 (38.61)	4.87 (123.70)	6.87 (174.50)	377-1160-ND	6.80	5.65	PS-11553-G
	2.52 (64.01)	4.87 (123.70)	6.87 (174.50)	377-1163-ND	7.20	6.00	PT-11557-G
Fig. 3 — Grabbers							
Gray	1.71 (43.43)	5.16 (131.06)	9.33 (236.98)	377-1170-ND	19.00	15.85	HH-3420
Accessories for Grabbers							
Tilt Stand for HH-3420				377-1171-ND	.90	.75	HH-3440-TS
Gasket for HH-3420				377-1172-ND	1.00	.85	HH-3441-G
Fig. 4 — Utility Cabinets							
Alum./Natural	5.00 (127)	6.00 (152.4)	4.00 (101.6)	377-1056-ND	14.10	11.75	AU-1029
	6.00 (152.4)	6.00 (152.4)	6.00 (152.4)	377-1057-ND	20.60	17.20	AU-1039
	9.00 (228.6)	6.00 (152.4)	5.00 (127)	377-1058-ND	22.40	18.70	AU-1040
Steel/Natural	6.00 (152.4)	6.00 (152.4)	6.00 (152.4)	377-1059-ND	25.40	21.15	CU-1098
	9.00 (228.6)	6.00 (152.4)	5.00 (127)	377-1060-ND	27.50	22.95	CU-1099
	12.00 (304.8)	7.00 (177.8)	6.00 (152.4)	377-1061-ND	41.40	34.60	CU-1124
	4.00 (101.6)	5.00 (127)	3.00 (76.2)	377-1062-ND	12.40	10.45	CU-728
	5.00 (127)	6.00 (152.4)	4.00 (101.6)	377-1063-ND	15.80	13.15	CU-729
	10.00 (254)	8.00 (203.2)	7.00 (177.8)	377-1064-ND	41.60	34.75	CU-879
	15.00 (381)	9.00 (228.6)	7.00 (177.8)	377-1065-ND	59.10	49.40	CU-882
Fig. 5 — Utilibox ABS Plastic							
Black	8.66 (219.96)	5.32 (135.13)	2.95 (74.93)	377-1164-ND*	21.70	18.10	CU-1495
Black	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1165-ND	2.70	2.25	CU-1874-B
Gray	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1166-ND	2.70	2.25	CU-1874-G
Black	4.10 (104.14)	2.23 (57.40)	2.00 (50.8)	377-1167-ND	4.10	3.40	CU-793
	5.59 (141.99)	4.34 (110.27)	1.84 (46.77)	377-1168-ND	7.20	6.00	CU-387
	4.31 (109.47)	3.06 (77.72)	1.46 (37.08)	377-1169-ND	5.80	4.85	CU-388
Black	4.6 (116.84)	3.1 (78.74)	1.87 (47.50)	377-1216-ND	7.20	6.00	CU-3281
	4.6 (116.84)	4.6 (116.84)	2.37 (60.20)	377-1217-ND	7.60	6.35	CU-3282
	6.1 (154.94)	4.6 (116.84)	2.37 (60.20)	377-1218-ND	9.20	7.70	CU-3283
	7.6 (193.04)	4.6 (116.84)	2.37 (60.20)	377-1219-ND	10.60	8.85	CU-3284
	5.07 (128.78)	3.57 (90.68)	1.59 (40.39)	377-1220-ND	6.70	5.60	CU-389

Color	Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 6 — NEMA 4 Sealed Die-Cast Enclosures (Aluminum Alloy #ADC-10, Gasket-EPDM)								
Alum./Natural	1.38 (35.05)	2.28 (57.91)	2.52 (64.01)	1.17 (29.72)	377-1100-ND	6.00	5.00	AN-1301
	1.18 (29.98)	2.56 (65.02)	4.53 (115.06)	.98 (24.89)	377-1101-ND	8.70	7.25	AN-1302
	2.17 (55.19)	2.56 (65.02)	4.53 (115.06)	1.96 (49.78)	377-1102-ND	10.60	8.85	AN-1303
	2.17 (55.19)	3.54 (89.92)	4.53 (115.06)	1.96 (49.78)	377-1103-ND	12.40	10.35	AN-1304
	2.17 (55.19)	5.75 (146.05)	8.75 (222.25)	1.98 (50.29)	377-1106-ND	23.80	19.85	AN-1307
	1.18 (29.98)	1.42 (36.07)	3.54 (89.92)	.98 (24.89)	377-1099-ND§	5.80	4.85	AN-1300
	2.95 (74.93)	4.25 (107.95)	5.83 (148.08)	2.52 (64.01)	377-1104-ND§	22.20	18.50	AN-1305
	2.17 (55.19)	4.76 (120.90)	6.73 (170.94)	1.73 (43.94)	377-1105-ND§	22.60	18.85	AN-1306
Gray	1.18 (29.97)	2.56 (65.02)	4.53 (115.06)	.98 (24.89)	377-1190-ND	14.10	11.75	AN-1302-G
	2.17 (55.12)	2.56 (65.02)	4.53 (115.06)	1.96 (49.78)	377-1191-ND	16.50	13.75	AN-1303-G
	2.17 (55.12)	3.54 (89.92)	4.53 (115.06)	1.96 (49.78)	377-1192-ND	19.80	16.50	AN-1304-G
	2.95 (74.93)	4.25 (107.95)	5.83 (148.08)	2.52 (64.01)	377-1193-ND	31.80	26.50	AN-1305-G
	2.17 (55.12)	4.76 (120.90)	6.73 (170.94)	1.73 (43.94)	377-1194-ND	32.20	26.85	AN-1306-G
	2.17 (55.12)	5.75 (146.05)	8.75 (222.25)	1.98 (50.29)	377-1195-ND	34.60	28.85	AN-1307-G
Fig. 6 — Econobox Enclosure (Aluminum Alloy #ADC-10)								
Alum./Natural	1.21 (30.73)	1.50 (38.1)	3.62 (91.95)	1.06 (26.92)	377-1107-ND	6.90	5.75	CU-123
	1.21 (30.73)	2.37 (60.198)	4.37 (177.8)	1.06 (26.92)	377-1108-ND	7.20	6.05	CU-124
	2.21 (56.13)	3.68 (93.47)	4.68 (118.87)	2.06 (52.32)	377-1109-ND	11.60	9.65	CU-234
	2.21 (56.13)	4.70 (119.38)	7.39 (187.71)	2.06 (52.32)	377-1110-ND	19.60	16.35	CU-247
	3.21 (81.53)	4.70 (119.38)	7.39 (187.71)	3.06 (77.72)	377-1111-ND	23.00	19.20	CU-347

*Cover panel .05 inch aluminum § No wall mounting holes

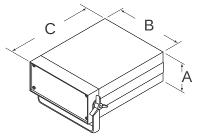
(Continued)

Fig. 8 — Desktop Cabinets



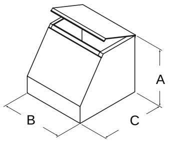
Cover .05" aluminum, panels 12" "Surface Shield" Aluminum. Sides vented for cooling.

Fig. 9 — Small Cabinets



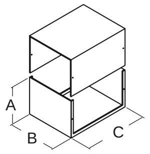
Top and bottom, .05" aluminum; front panel, .09" aluminum. Extruded aluminum frame. Corner gussets for added support. Carrying handle may be used as tilting bail. Front panel, self-adhesive rubber feet and handle/bail included. Royal blue texture body with white frame and bail.

Fig. 10 — Sloping Cabinets



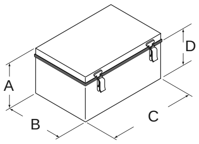
Removable front panel. Hinged top opens completely for access to components mounted on chassis.

Fig. 11 — Mini Boxes



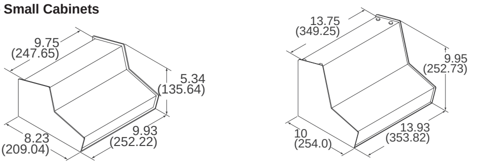
04" aluminum alloy. Two sections slip together and may be joined by either built-in snap lock or sheet metal screws (included).

Fig. 12 — Gasketed Enclosures



Indoor Version: ABS/PC blended plastic with UL94-5VB flammability rating. Suggested service temperature range -40°C to +70°C. Clear doors are polycarbonate with UL94V-0 flammability rating.

Fig. 13 — Small Cabinets

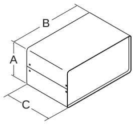


2 Piece Design

3 Piece Design

Dual-slope keyboard styling. Base and side .09", back panel and cover .05" aluminum. Rubber feet furnished.

Fig. 14 — Champion Cabinets



No screws on front or rear panel. Ventilation slots in bottom and rear panel. Black top and bottom, white front and rear. .05" aluminum. Four adhesive rubber feet furnished.

NEMA 4X Sealed Polycarbonate and ABS Enclosures

Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 6 — Style 1								
1.38 (35.05)	2.56 (65.02)	2.28 (57.91)	0.99 (25.146)	377-1112-ND	7.40	6.15	5.55	PN-1320
1.57 (39.88)	4.53 (115.06)	2.56 (65.02)	0.99 (25.146)	377-1114-ND	10.30	8.60	7.75	PN-1321
2.17 (55.19)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1116-ND	11.10	9.25	8.35	PN-1322
2.17 (55.19)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1119-ND	12.80	10.65	9.60	PN-1323
2.17 (55.19)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1122-ND	17.90	14.90	13.40	PN-1324
2.17 (55.19)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1125-ND	23.70	19.75	17.80	PN-1325
3.15 (80.01)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1127-ND	19.40	16.15	14.55	PN-1327
3.15 (80.01)	4.53 (115.06)	3.54 (89.92)	2.56 (65.02)	377-1129-ND	14.90	12.40	11.15	PN-1328
2.95 (74.93)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1131-ND	26.00	21.65	19.50	PN-1329
3.35 (85.09)	6.30 (160.02)	3.15 (80.01)	2.76 (70.10)	377-1134-ND	16.50	13.75	12.40	PN-1333
2.95 (74.93)	7.87 (199.90)	4.72 (119.89)	2.37 (60.199)	377-1136-ND	23.40	19.50	17.55	PN-1334
3.74 (94.99)	10.43 (264.93)	7.28 (184.91)	2.95 (74.93)	377-1258-ND	38.40	32.15	26.90	PN-1335
Fig. 6 — Style 2								
2.17 (55.19)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1117-ND	11.40	9.50	8.55	PN-1322-C
2.17 (55.19)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1120-ND	13.20	11.00	9.90	PN-1323-C
2.17 (55.19)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1123-ND	18.50	15.40	13.85	PN-1324-C
2.17 (55.19)	6.30 (160.02)	3.15 (80.01)	1.58 (40.13)	377-1133-ND	15.70	13.10	11.80	PN-1332-C
1.57 (39.88)	4.53(115.06)	2.56 (65.02)	0.99 (25.15)	377-1255-ND	10.60	8.85	7.95	PN-1321-C
2.95 (74.93)	8.74(221.99)	5.75 (146.05)	1.58 (40.13)	377-1256-ND	26.00	21.65	19.50	PN-1329-C
2.95 (74.93)	7.87(199.90)	4.72 (119.89)	2.37 (60.20)	377-1257-ND	23.70	19.75	17.80	PN-1334-C
Fig. 6 — Style 3								
1.38 (35.05)	2.56 (65.02)	2.28 (57.91)	0.99 (25.146)	377-1113-ND	5.90	4.90	4.40	PN-1320-DG
1.57 (39.88)	4.53 (115.06)	2.56 (65.02)	0.99 (25.146)	377-1115-ND	7.20	6.00	5.40	PN-1321-DG
2.17 (55.19)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1118-ND	8.10	6.75	6.10	PN-1322-DG
2.17 (55.19)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1121-ND	9.80	8.15	7.35	PN-1323-DG
2.17 (55.19)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1124-ND	14.20	11.85	10.65	PN-1324-DG
2.17 (55.19)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1126-ND	19.20	16.00	14.40	PN-1325-DG
3.15 (80.01)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1128-ND	13.40	11.15	10.05	PN-1327-DG
3.15 (80.01)	4.53 (115.06)	3.54 (89.92)	2.56 (65.02)	377-1130-ND	10.10	8.40	7.55	PN-1328-DG
2.95 (74.93)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1132-ND	16.40	13.65	12.30	PN-1329-DG
3.35 (85.09)	6.30 (160.02)	3.15 (80.01)	2.76 (70.10)	377-1135-ND	13.00	10.85	9.75	PN-1333-DG
2.95 (74.93)	7.87 (199.90)	4.72 (119.89)	2.37 (60.199)	377-1137-ND	17.30	14.40	12.95	PN-1334-DG
3.74 (94.99)	10.43 (264.93)	7.28 (184.91)	2.95 (74.93)	377-1259-ND	29.10	24.35	20.36	PN-1335-DG

Style	Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 7 — Potting Boxes								
A	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1173-ND	1.16	.97	PB-1558
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1176-ND	1.69	1.41	PB-1559
		.75 (19.05)	1.00 (25.4)	1.00 (25.4)	377-1180-ND	.68	.57	PB-1577
B	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1175-ND	1.27	1.06	PB-1558-TF
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1178-ND	1.82	1.52	PB-1559-TF
		1.50 (38.1)	3.00 (76.2)	3.00 (76.2)	377-1179-ND	1.83	1.53	PB-1576-TF
C	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1174-ND	1.27	1.06	PB-1558-BF
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1177-ND	1.82	1.52	PB-1559-BF
Optional Close-Fitting Covers								
Cover for PB-1558-BF					377-1181-ND	.67	.56	PBC-1558-C
Cover for PB-1558/1558-TF					377-1182-ND	.67	.56	PBC-1558-CN
Cover for PB-1559-BF					377-1183-ND	.78	.65	PBC-1559-C
Cover for PB-1559/1559-TF					377-1184-ND	.76	.64	PBC-1575-C
Cover for PB-1576-TF					377-1185-ND	.99	.83	PBC-1576-C
Cover for PB-1577					377-1186-ND	.40	.34	PBC-1577-C

Small Cabinets

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 8 — SLIMCAB™ Desktop Cabinets								
Alum. Sand Text.	1.75 (44.45)	8.50 (215.9)	8.0 (203.2)	377-1187-ND	63.40	—	52.90	CS-11221-S
Fig. 9 — TR Series								
Alum. Blue/White	7.00 (177.8)	11.06 (280.9)	13.25 (336.55)	377-1055-ND	253.60	211.75	—	TR-6102
Blue/White	3.50 (88.9)	8.31 (211.07)	10.75 (273.05)	377-1312-ND	206.90	172.80	—	TR-6100
	5.25 (133.35)	8.31 (211.07)	13.25 (336.55)	377-1313-ND	221.50	184.95	—	TR-6101

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 10 — Sloping Panel Cabinets							
Steel Metallic Gray	6.50 (165.1)	7.06 (179.3)	7.31 (185.7)	377-1066-ND	44.10	36.90	C-1584
	6.50 (165.1)	9.06 (230.1)	7.31 (185.7)	377-1067-ND	42.50	35.45	C-1585
	6.50 (165.1)	11.06 (280.9)	7.31 (185.7)	377-1068-ND	47.60	39.70	C-1586
	8.00 (203.2)	10.06 (255.5)	8.00 (203.2)	377-1069-ND	53.40	44.60	C-1588
	8.00 (203.2)	13.06 (331.7)	8.50 (215.9)	377-1070-ND	61.80	51.65	C-1892
	10.00 (254)	18.06 (458.37)	10.50 (266.7)	377-1071-ND	91.20	76.10	C-1893
	8.00 (203.2)	14.06 (357.1)	8.00 (203.2)	377-1072-ND	56.30	47.00	C-1894
	9.00 (228.6)	18.06 (458.7)	8.18 (207.78)	377-1073-ND	78.40	65.50	C-1896

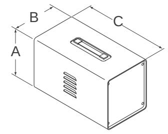
Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Slope Enclosures, Solid Top (.09" Base, .05" Cover with Rubber Feet)							
Black/White	4.25 (107.95)	4.93 (125.22)	5.00 (127)	377-1074-ND*	37.30	31.15	SC-12100
	3.25 (82.55)	11.93 (303.02)	10.00 (254)	377-1075-ND	67.00	55.95	SC-12101

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 11 — Miniboxes							
Alum./ Gray	1.62 (41.15)	2.12 (53.85)	2.75 (69.85)	377-1076-ND	4.60	3.80	CU-2100-B
	1.62 (41.15)	2.12 (53.85)	3.25 (82.55)	377-1077-ND	4.75	3.90	CU-2101-B
	1.62 (41.15)	2.12 (53.85)	4.00 (101.6)	377-1078-ND	4.95	4.05	CU-2102-B
	2.25 (57.15)	2.25 (57.15)	4.00 (101.6)	377-1079-ND	5.00	4.15	CU-2103-B
	3.00 (76.2)	4.00 (101.6)	5.00 (127)	377-1080-ND	7.40	6.15	CU-2105-B
	2.12 (53.85)	3.00 (76.2)	5.25 (133.35)	377-1081-ND	6.00	4.95	CU-2106-B
	4.00 (101.6)	5.00 (127)	6.00 (152.4)	377-1082-ND	10.40	8.75	CU-2107-B
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1083-ND	10.10	8.45	CU-2108-B
	3.50 (88.9)	6.00 (152.4)	8.00 (203.2)	377-1084-ND	20.30	17.00	CU-2109-B
	3.50 (88.9)	6.00 (152.4)	10.00 (254)	377-1085-ND	21.50	17.95	CU-2110-B
	4.00 (101.6)	7.00 (177.8)	12.00 (304.8)	377-1086-ND	28.40	23.75	CU-2111-B
Alum./ Natural	1.62 (41.15)	2.12 (53.85)	2.75 (69.85)	377-1087-ND	3.00	2.50	CU-3000-A
	1.62 (41.15)	2.12 (53.85)	3.25 (82.55)	377-1088-ND	3.40	2.85	CU-3001-A
	1.62 (41.15)	2.12 (53.85)	4.00 (101.6)	377-1089-ND	3.70	3.10	CU-3002-A
	2.25 (57.15)	2.25 (57.15)	4.00 (101.6)	377-1090-ND	4.00	3.30	CU-3003-A
	2.25 (57.15)	2.25 (57.15)	5.00 (127)	377-1091-ND	4.80	4.00	CU-3004-A
	3.00 (76.2)	4.00 (101.6)	5.00 (127)	377-1092-ND	6.10	5.10	CU-3005-A
	2.12 (53.85)	3.00 (76.2)	5.25 (133.35)	377-1093-ND	4.95	4.05	CU-3006-A
	4.00 (101.6)	5.00 (127)	6.00 (152.4)	377-1094-ND	8.70	7.30	CU-3007-A
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1095-ND	7.80	6.50	CU-3008-A
	3.50 (88.9)	6.00 (152.4)	8.00 (203.2)	377-1096-ND	12.30	10.25	CU-3009-A
	3.50 (88.9)	6.00 (152.4)	10.00 (254)	377-1097-ND	15.50	12.90	CU-3010-A
	4.00 (101.6)	7.00 (177.8)	12.00 (304.8)	377-1098-ND	19.60	16.35	CU-3011-A

* Single knockout only — centered

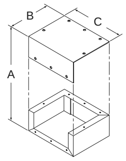
(*Continued*)

Fig. 15 — Portacab Cabinets



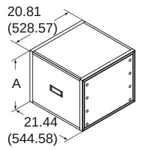
Designed for bench or portable use. Louvered sides .05" aluminum. Metallic gray. Handle capacity 25 lbs. Four plastic feet furnished.

Fig. 16 — Converta Boxes



Welded base and two-sided cover .05" aluminum. Natural finish.

Fig. 17 — Portable Cabinets



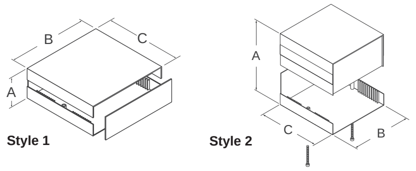
.05" aluminum. Frame, 6063-T5 extrusion. Accommodate 19" panels. Mounting rails have 10-32 tapped holes. Use 377-1403-ND screws. Cabinet 500 lbs. load, handles 100 lbs. load capacity. Door sold separately.

Fig. 18 — Plasticases

PC-11402 – PC-11416: Impact resistant polystyrene. UL94-HB flammability rating. Molded-in card guides and mounting bosses. Double-textured PC Bone Gray.

PC-11438: Black ABS covers. UL94-HB flammability rating. Clear anodized aluminum front and rear panels. Internal steel channels provide extra strength and ease of assembly. Formed guide tabs accept vertical or horizontal circuit boards.

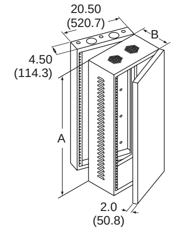
PC-11482-A: Dark gray ABS covers with natural finish aluminum end panels. UL94V-0 flammability rating, suggested service temp -40°C to +80°C.



Style 1 **Style 2**

Fig. 19 — Wall Mount Cabinets

Three section ventilated swing frame. Lockable door. Left or right hand hinge. Fan mounting option. 16-gauge steel. 19" rails in rear and center. Use 377-1405-ND cagenut and 377-1403-ND screws. 150 lbs. capacity.



UL/NEMA/IEC Gasketed Enclosures

Dimensions - Inch (mm)				Digi-Key	Price Each			Bud Ind.
A	B	C	D	Part No.	1	5	15	Part No.
Fig. 12 — NBA Series - Stainless Steel Hinges								
7.09 (180.09)	11.80 (299.72)	7.85 (199.39)	5.90 (149.86)	377-1138-ND†	55.50	46.25	41.65	NBA-10144
7.09 (180.09)	15.75 (400.05)	11.80 (299.72)	5.90 (149.86)	377-1139-ND†	81.80	68.15	61.35	NBA-10148
5.97 (151.64)	11.80 (299.72)	7.85 (199.39)	4.80 (121.92)	377-1140-ND§	52.80	44.00	39.60	NBA-10162
Fig. 12 — NBB Series - Plastic Hinges								
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1141-ND†	17.50	14.60	13.15	NBB-10240
5.50 (141.35)	11.28 (286.512)	7.47 (189.79)	4.33 (109.98)	377-1142-ND†	36.30	30.25	27.25	NBB-10243
7.04 (178.82)	13.00 (330.2)	13.00 (330.2)	5.86 (148.84)	377-1143-ND†	50.10	41.75	37.60	NBB-10245
6.30 (160.02)	15.68 (398.27)	11.73 (297.94)	5.11 (129.79)	377-1144-ND†	50.60	42.15	37.95	NBB-10247
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1245-ND§	19.10	15.90	14.30	NBB-10260
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1246-ND†	19.30	16.10	14.50	NBB-15240
Fig. 12 — NBD Series - Non-Metallic Phillips Drive Fasteners								
5.03 (127.76)	7.48 (189.99)	11.02 (279.91)	3.85 (97.79)	377-1145-ND†	36.90	30.75	27.70	NBD-10442
Fig. 12 — NBE Series - Plastic Hinges/Aluminum Swing-out Panel								
5.50 (141.35)	7.47 (189.79)	11.28 (286.512)	4.33 (109.98)	377-1146-ND§	68.20	56.95	51.25	NBE-10563
6.30 (160.02)	11.73 (297.94)	15.68 (398.27)	5.11 (129.79)	377-1147-ND§	89.20	74.50	67.05	NBE-10567
7.85 (199.39)	14.64 (371.86)	19.17 (486.92)	6.67 (169.42)	377-1148-ND§	135.10	112.80	101.50	NBE-10573

† Solid doors § Clear doors

Small Cabinets

Description	Digi-Key Part No.	Price Each 1	5	15	Bud Ind. Part No.
Fig. 13 — Small Metal Enclosures – Compucab Series					
2 pc. Design	377-1296-ND	72.20	60.30	54.25	SC-13100
3 pc. Design	377-1297-ND	140.50	117.30	105.55	SC-13101

Color	Dimensions - Inch (mm)			Digi-Key	Price Each		Bud Ind.
	A	B	C	Part No	1	10	Part No.
Fig. 14 — Champion Series Cabinets							
Black	6.00 (152.4)	12.00 (304.8)	10.00 (254)	377-1210-ND	77.30	64.50	CS-11212-BT
	8.00 (203.2)	9.00 (228.6)	8.00 (203.2)	377-1211-ND	75.40	62.90	CS-11214-BT
	8.00 (203.2)	12.00 (304.8)	10.00 (254)	377-1212-ND	84.60	70.60	CS-11216-BT
Color	A	B	C	Part No	1	5	Part No.
Fig. 15 — Portacab Cabinets							
Gray	8.00 (203.2)	6.12 (155.45)	8.00 (203.2)	377-1315-ND	71.00	59.25	WA-1540
	9.00 (228.6)	8.12 (206.25)	12.00 (304.8)	377-1316-ND	97.90	81.75	WA-1541
	8.00 (203.2)	10.12 (257.05)	8.00 (203.2)	377-1317-ND	83.30	69.60	WA-1542
	11.00 (279.4)	11.12 (282.45)	18.00 (457.2)	377-1318-ND	133.60	111.55	WA-1543
Color	A	B	C	Part No	1	10	Part No.
Fig. 16 — Converta Boxes							
Alum./ Natural	2.00 (50.8)	8.00 (203.2)	4.00 (101.6)	377-1221-ND	14.40	12.00	CU-482-A
	2.50 (63.5)	9.50 (241.3)	5.00 (127)	377-1222-ND	15.80	13.20	CU-592-A
	2.50 (63.5)	12.00 (304.8)	6.00 (152.4)	377-1223-ND	20.80	17.34	CU-622-A

Color	Dimensions - Inch (mm)		Weight	Digi-Key	Price Each		Bud Ind.
	A	Panel Space	Lbs.	Part No.	1	3	Part No.
*Fig. 17 — Classic II Portable Cabinets**							
Gray	22.81 (579.37)	21.00 (533.4)	40	377-1335-ND	477.45	445.55	AGC-9276-GT
Blue	22.81 (579.37)	21.00 (533.4)	40	377-1336-ND	477.45	445.55	AGC-9276-RB
White	—	—	6.25	377-1398-ND†	100.60	90.55	AGD-376-WH
Gray	24.56 (623.82)	22.75 (577.85)	41	377-1337-ND	494.55	461.60	AGC-9277-GT
Blue	24.56 (623.82)	22.75 (577.85)	41	377-1338-ND	494.55	461.60	AGC-9277-RB
White	—	—	6.75	377-1399-ND†	105.15	94.65	AGD-377-WH
Gray	26.31 (668.27)	24.50 (622.3)	42	377-1339-ND	508.75	474.80	AGC-9278-GT
Blue	26.31 (668.27)	24.50 (622.3)	42	377-1340-ND	508.75	474.80	AGC-9278-RB
White	—	—	7.25	377-1400-ND†	112.55	101.30	AGD-378-WH
Gray	28.06 (712.72)	26.25 (666.75)	43	377-1341-ND	527.45	492.25	AGC-9279-GT
Blue	28.06 (712.72)	26.25 (666.75)	43	377-1342-ND	527.45	492.25	AGC-9279-RB
White	—	—	7.50	377-1401-ND†	115.70	104.15	AGD-379-WH
Gray	29.81 (757.17)	28.00 (711.2)	45	377-1343-ND	531.10	495.75	AGC-9280-GT
Blue	29.81 (757.17)	28.00 (711.2)	45	377-1344-ND	531.10	495.75	AGC-9280-RB
White	—	—	8.00	377-1402-ND†	122.20	110.00	AGD-380-WH

*Due to weight and size, product will be drop shipped from Bud Industries direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.
† These are the doors that go with the cabinets.

Style	Color	Dimensions - Inch (mm)			Digi-Key	Price Each		Bud Ind.
		A	B	C	Part No.	1	10	Part No.
Fig. 18 — Plasticases								
1	Gray	1.53 (38.86)	5.08 (129.03)	5.30 (134.62)	377-1149-ND	13.30	11.10	PC-11402
		2.52 (64.01)	8.10 (205.74)	6.32 (160.53)	377-1150-ND	20.40	17.00	PC-11408
2	Gray	3.30 (83.82)	6.12 (155.49)	6.32 (160.53)	377-1151-ND	21.00	17.50	PC-11410
		3.30 (83.82)	8.10 (205.74)	6.32 (160.53)	377-1152-ND	24.30	20.30	PC-11412
		4.04 (102.62)	6.12 (155.49)	6.32 (160.53)	377-1153-ND	22.10	18.45	PC-11414
		4.04 (102.62)	8.10 (205.74)	6.32 (160.53)	377-1154-ND	25.80	21.55	PC-11416
1	Black	4.02 (102.11)	9.72 (246.89)	8.66 (219.96)	377-1155-ND	52.90	44.15	PC-11438
	Gray	2.56 (65.02)	10.24 (260.10)	7.09 (180.09)	377-1156-ND	32.80	27.35	PC-11482-A

Cabinets

Color	Dimensions - Inch (mm)			Weight	Digi-Key	Price Each		Bud Ind.
	A	B	Panel Space	Lbs.	Part No.	1	3	Part No.
Steel Door								
*Fig. 19 — Wall Mount Cabinets**								
Black	24.00 (609.6)	11.00 (279.4)	21.00 (533.4)	46	377-1319-ND	385.75	360.00	WM-5412-BRT
Off-White	24.00 (609.6)	11.00 (279.4)	21.00 (533.4)	46	377-1320-ND	385.75	360.00	WM-5412-WRT
Black	48.50 (1231.9)	11.00 (279.4)	45.00 (1143)	96	377-1321-ND	522.65	487.75	WM-5414-BRT
Off-White	48.50 (1231.9)	11.00 (279.4)	45.00 (1143)	96	377-1322-ND	522.65	487.75	WM-5414-WRT
Black	24.00 (609.6)	11.00 (279.4)	21.00 (533.4)	66	377-1323-ND	423.10	394.85	WM-5422-BRT
Off-White	24.00 (609.6)	11.00 (279.4)	21.00 (533.4)	66	377-1324-ND	423.10	394.85	WM-5422-WRT
Black	48.50 (1231.9)	16.00 (406.4)	45.00 (1143)	107	377-1325-ND	550.40	513.65	WM-5424-BRT
Off-White	48.50 (1231.9)	16.00 (406.4)	45.00 (1143)	107	377-1326-ND	550.40	513.65	WM-5424-WRT

Color	Dimensions - Inch (mm)			Weight	Digi-Key	Price Each		Bud Ind.
	A	B	Panel Space	Lbs.	Part No.	1	3	Part No.
Plexiglass Door								
*Fig. 19 — Wall Mount Cabinets**								
Black	24.00 (609.6)	11.00 (279.4)	21.00 (533.4)	46	377-1327-ND	432.25	403.40	WM-5442-BRT
Off-White	24.00 (609.6)	11.00 (279.4)	21.00 (533.4)	46	377-1328-ND	432.25	403.40	WM-5442-WRT
Black	48.50 (1231.9)	11.00 (279.4)	45.00 (1143)	96	377-1329-ND	602.10	561.90	WM-5444-BRT
Off-White	48.50 (1231.9)	11.00 (279.4)	45.00 (1143)	96	377-1330-ND	602.10	561.90	WM-5444-WRT
Black	24.00 (609.6)	11.00 (279.4)	21.00 (533.4)	66	377-1331-ND	438.40	409.15	WM-5452-BRT
Off-White	24.00 (609.6)	11.00 (279.4)	21.00 (533.4)	66	377-1332-ND	438.40	409.15	WM-5452-WRT
Black	48.50 (1231.9)	16.00 (406.4)	45.00 (1143)	107	377-1333-ND	614.75	573.70	WM-5454-BRT
Off-White	48.50 (1231.9)	16.00 (406.4)	45.00 (1143)	107	377-1334-ND	614.75	573.70	WM-5454-WRT

*Due to weight and size, product will be drop shipped from Bud Industries direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.

Bud Industries, Inc.

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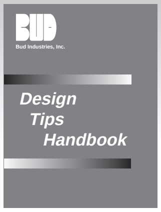

Call for Your Enclosure Design Tips Handbook from Digi-Key and Bud

When You Use Bud Cabinet Racks You Get:

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- *Fully Assembled Cabinets*
- *Ease of Ordering Under One Part Number*
- *Complete Line of Easy-to-Use Accessories*
- *Availability of Modifications and Custom Designs*

#1 Preferred Enclosure Brand*

*2002 Reed Business Survey

Bud's Quick-Pick Cabinet Accessory Chart

Description	Digi-Key Part No.	Price Each 1	10	20	Bud Ind. Part No.
Mounting Rail for 70" Panel Space (1 pr.)	377-1413-ND	97.10	64.90	60.85	PMR-9453
Casters (1 pr.)	377-1264-ND	28.60	23.85	22.88	RC-7758-PR
Leveler Kit for Economizer Rack	377-1267-ND	47.90	40.00	38.32	RL-7770
Power Strip – Rack Mounted (Front)	377-1414-ND	66.00	46.25	39.60	POS-194-S
Shelf – Stationary and Vented	377-1307-ND	68.20	42.65	40.92	SH-2384
Shelf – Stationary and Solid	377-1306-ND	73.20	45.75	43.92	SH-2382
Shelf – Sliding and Vented	377-1415-ND	120.00	93.34	72.00	SH-2392
Shelf – Sliding and Solid	377-1416-ND	118.00	82.60	70.80	SH-2388
Fan Tray	377-1227-ND	208.40	145.90	135.46	FT-1170-MG
Fans for Tray	377-1225-ND	46.88	28.15	26.25	FN-1280
Blower	377-1411-ND	498.40	348.90	299.04	B-62
Panel – 1U	377-1247-ND	10.35	8.65	8.24	PA-1101-MG
Panel – 2U	377-1248-ND	14.40	12.00	11.52	PA-1102-MG
Panel – 2U	377-1249-ND	19.70	16.40	15.76	PA-1103-MG
Handbook	377-1412-ND	1.99	—	—	HANDBOOK

Bud Industries, Inc.

Racks

377-1412-ND *NEW!* Design Tips Handbook **$1.99**

Fig. 1 – Open Racks Swing Frame

Left or right hand hinge. Velcro cable straps included. 75 lbs. load capacity. Use 377-1404-ND screws. Black texture.

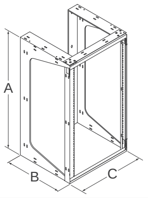


Fig. 2 – Aluminum Racks

Aluminum rack. Panel holes #12-24 tapped. Use 377-1404-ND. 1,000 lbs. load capacity.

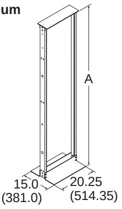


Fig. 3 – Open Racks

Steel construction. Rails tapped #10-32, use 377-1403-ND screws. Heavy duty steel rack. Panel holes are #12-24, use 377-1404-ND screws.

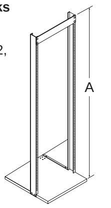


Fig. 4 – Table Top Racks

Chassis-type base holds heavy components for table mounting. Panel holes tapped #10-32, use 377-1403-ND Screws. Base 20.37" (517.4)mm x 12.00" (304.8)mm. Shipped knocked down.

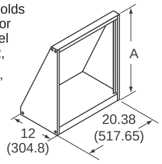
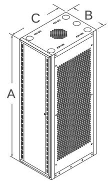


Fig. 5 – Server Cabinets

Ventilated sides, rear door, Econoglas front door, right or left hand operation. Multiple cable access ports. Panel rails have provisions for vertical cable management. Black texture finish.



Open Racks

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No	Price Each 1	5	Bud Ind. Part No.
Fig. 1 — Open Rack Swing Frame – Knockdown Assembly							
Black	24.00 (609.6)	21.25 (539.75)	18.00 (457.2)	377-1298-ND	154.60	115.95	SF-2184
	38.00 (965.2)	21.25 (539.75)	18.00 (457.2)	377-1299-ND	174.10	130.60	SF-2194

Color	Dimensions - Inch (mm) A	Panel Space	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 2 — Aluminum Racks						
Black	84.00 (2133.6)	77.00 x 19.00 (1955.8 x 482.6)	377-1196-ND	168.00	140.30	ARR-1272-BT
Natural	84.00 (2133.6)	77.00 x 19.00 (1955.8 x 482.6)	377-1197-ND	158.00	131.95	ARR-1272-NF
Natural	50.00 (1270)	42.00 x 19.00 (1066.8 x 482.6)	377-1198-ND	150.00	125.26	ARR-1276-NF

Color	Dimensions - Inch (mm) A	Panel Space	Weight Lbs.	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
*Fig. 3 — Open Racks – RR1263 Series**							
Black	35.62 (904.75)	31.50 x 19.00 (800.1 x 482.6)	36	377-1274-ND	175.20	146.30	RR-1263-BT
Gray	35.62 (904.75)	31.50 x 19.00 (800.1 x 482.6)	36	377-1408-ND	175.20	146.30	RR-1263-MG
Black	70.62 (1793.75)	66.50 x 19.00 (1689.1 x 482.6)	46	377-1407-ND	210.50	175.80	RR-1264-BT
Gray	70.62 (1793.75)	66.50 x 19.00 (1689.1 x 482.6)	46	377-1275-ND	210.50	175.80	RR-1264-MG
Black	40.87 (1038.10)	36.75 x 19.00 (933.45 x 482.6)	37	377-1279-ND	186.50	155.75	RR-1363-BT
Gray	40.87 (1038.10)	36.75 x 19.00 (933.45 x 482.6)	37	377-1280-ND	186.50	155.75	RR-1363-MG
Black	75.62 (1920.75)	71.75 x 19.00 (1822.45 x 482.6)	46	377-1281-ND	215.20	179.70	RR-1364-BT
Gray	75.62 (1920.75)	71.75 x 19.00 (1822.45 x 482.6)	46	377-1282-ND	215.20	179.70	RR-1364-MG
Black	81.12 (2060.45)	77.00 x 19.00 (1955.8 x 482.6)	49	377-1283-ND	219.90	183.60	RR-1366-BT
Gray	81.12 (2060.45)	77.00 x 19.00 (1955.8 x 482.6)	49	377-1284-ND	219.90	183.60	RR-1366-MG

Color	Dimensions - Inch (mm) A	Panel Space	Weight Lbs.	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 3 — Open Racks – RR1367 Series							
Black	73.37 (1863.60)	70.00 x 19.00 (1778 x 482.6)	77	377-1285-ND	407.80	340.50	RR-1368-BT
Gray	73.37 (1863.60)	70.00 x 19.00 (1778 x 482.6)	77	377-1286-ND	407.80	340.50	RR-1368-MG
Black	80.37 (2041.40)	77.00 x 19.00 (1955.8 x 482.6)	81	377-1287-ND	421.40	351.80	RR-1369-BT
Gray	80.37 (2041.40)	77.00 x 19.00 (1955.8 x 482.6)	81	377-1288-ND	421.40	351.80	RR-1369-MG
Fig. 3 — Heavy Duty Steel Racks							
Black	82.75 (2101.85)	77.00 x 19.00 (1955.8 x 482.6)	73	377-1276-ND	270.60	225.95	RR-1269
	107.25 (2724.15)	101.50 x 19.00 (2578.1 x 482.6)	85	377-1277-ND	298.20	249.00	RR-1270
	82.75 (2101.85)	77.00 x 23.00 (1955.8 x 584.2)	79	377-1278-ND	289.60	241.80	RR-1291

*Due to weight and size, product will be drop shipped from Bud Industries direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.

Color	Dimensions - Inch (mm) A	Panel Space	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 4 — Table Top Racks						
Black	24.00 (609.6)	21.00 (533.4)	377-1270-ND	114.20	95.35	RR-1248-BT
Gray	24.00 (609.6)	21.00 (533.4)	377-1271-ND	114.20	95.35	RR-1248-MG
Black	31.00 (5.6)	28.00 (711.2)	377-1272-ND	124.80	104.25	RR-1249-BT
Gray	31.00 (5.6)	28.00 (711.2)	377-1273-ND	124.80	104.25	RR-1249-MG

Cabinet Racks

Dimensions - Inch (mm) A x B x C	Panel Space	Weight Lbs.	Digi-Key Part No.	Price Each 1	3	Bud Ind. Part No.
*Fig. 5 — Large Server Cabinets**						
84.06 x 24 x 35.43 (2135.12 x 609.6 x 899.92)	78.75 x 19 (2000.25 x 482.6)	247	377-1351-ND	1406.25	1312.50	DC-8105
84.06 x 24 x 43.31 (2135.12 x 609.6 x 1100.07)	78.75 x 19 (2000.25 x 482.6)	270	377-1352-ND	1461.70	1364.00	DC-8110

*Due to weight and size, product will be drop shipped from Bud Industries direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.

(*Continued*)

Racks *(Cont.)*

Fig. 6 – **Economizer Cabinet**

Welded frame. Panel mounting rails fully adjustable, tapped #10-32, use 377-1403-ND screws. Removable side panels. 1,200 lbs. load capacity.

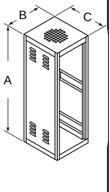


Fig. 7 – **Turn Key Cabinets**

Welded Steel. Louvered side panels and rear door. Econoglas locking front door. Full height panel mounting rails, use 377-1403-ND screws. 1,200 lbs. load capacity.

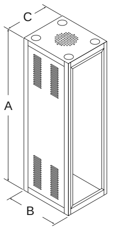


Fig. 8 – **Rack Mount Chassis**

Front panel -.12" thick mill finish aluminum with "Surface Shield" protection. Side panels are punched on a .87" grid. Handles and covers sold separately.

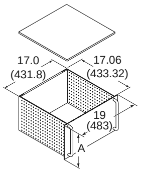
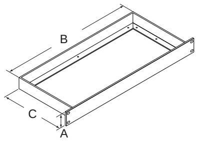
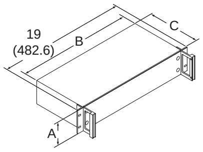


Fig. 9 – **Small Rack Mount Chassis**



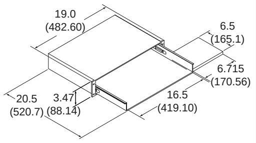
Small rack mount chassis. Panels are .10" thick. Chassis are .05" thick aluminum. Covers sold separately.

Fig. 10 – **ValuLine Cabinets**



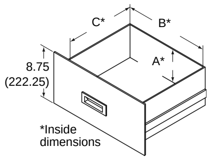
Side and front panel .09" aluminum: base, rear and top .05" aluminum. Rack mounting brackets and rubber feet included. 25 lbs. load capacity.

Fig. 11 – **Keyboard Shelves**



Fits 19" panel. Mouse pad slides underneath right or left. Takes up 2-U of panel space.

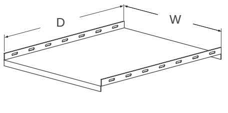
Fig. 12 – **Sliding Drawers**



*Inside dimensions

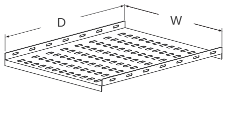
Fits 19" panel. Supports heavy loads even when fully extended.

Fig. 13 – **Shelves**



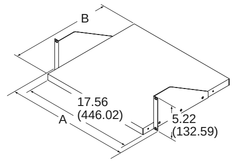
Fits 19" wide panel spaces. Supports up to 200 lbs. Requires two pair of panel mounting rails per cabinet.

Fig. 14 – **Vented Shelves**



Fits 19" wide panel spaces. Supports up to 200 lbs. Requires two pair of panel mounting rails per cabinet. Ventilated.

Fig. 15 – **Adjustable Shelves**



Fits 19" panel spaces. Adjustable for depth within rack. Supports 150 lbs.

Color	Dimensions - Inch (mm) A	B	C	Weight Lbs.	Digi-Key Part No	Price Each 1	3	Bud Ind. Part No.
*Fig. 6 — Economizer Upright Cabinet Racks – Ventilated**								
Black	47.31 (1201.67)	22.00 (558.8)	18.50 (469.9)	110	377-1360-ND	634.40	592.00	ER-16602-BT
Blue	47.31 (1201.67)	22.00 (558.8)	18.50 (469.9)	110	377-1361-ND	634.40	592.00	ER-16602-RB
Black	57.81 (1468.37)	22.00 (558.8)	18.50 (469.9)	124	377-1362-ND	653.75	610.05	ER-16603-BT
Blue	57.81 (1468.37)	22.00 (558.8)	18.50 (469.9)	124	377-1363-ND	653.75	610.05	ER-16603-RB
Black	66.56 (1690.62)	22.00 (558.8)	18.50 (469.9)	139	377-1364-ND	703.70	656.65	ER-16604-BT
Blue	66.56 (1690.62)	22.00 (558.8)	18.50 (469.9)	139	377-1365-ND	703.70	656.65	ER-16604-RB
Black	75.31 (49.91)	22.00 (558.8)	18.50 (469.9)	151	377-1366-ND	742.35	692.70	ER-16605-BT
Blue	75.31 (49.91)	22.00 (558.8)	18.50 (469.9)	151	377-1367-ND	742.35	692.70	ER-16605-RB
Black	84.06 (2135.12)	22.00 (558.8)	18.50 (469.9)	163	377-1368-ND	768.30	716.95	ER-16606-BT
Blue	84.06 (2135.12)	22.00 (558.8)	18.50 (469.9)	163	377-1369-ND	768.30	716.95	ER-16606-RB
Black	47.31 (1201.67)	22.00 (558.8)	25.50 (647.7)	128	377-1370-ND	676.90	631.70	ER-16612-BT
Blue	47.31 (1201.67)	22.00 (558.8)	25.50 (647.7)	128	377-1371-ND	676.90	631.70	ER-16612-RB
Black	57.81 (1468.37)	22.00 (558.8)	25.50 (647.7)	145	377-1372-ND	704.05	657.00	ER-16613-BT
Blue	57.81 (1468.37)	22.00 (558.8)	25.50 (647.7)	145	377-1373-ND	704.05	657.00	ER-16613-RB
Black	66.56 (1690.62)	22.00 (558.8)	25.50 (647.7)	162	377-1374-ND	765.20	714.05	ER-16614-BT
Blue	66.56 (1690.62)	22.00 (558.8)	25.50 (647.7)	162	377-1375-ND	765.20	714.05	ER-16614-RB
Black	75.31 (49.91)	22.00 (558.8)	25.50 (647.7)	175	377-1376-ND	796.65	743.40	ER-16615-BT
Blue	75.31 (49.91)	22.00 (558.8)	25.50 (647.7)	175	377-1377-ND	796.65	743.40	ER-16615-RB
Black	84.06 (2135.12)	22.00 (558.8)	25.50 (647.7)	189	377-1378-ND	840.05	783.96	ER-16616-BT
Blue	84.06 (2135.12)	22.00 (558.8)	25.50 (647.7)	189	377-1379-ND	840.05	783.96	ER-16616-RB
Black	47.31 (1201.67)	22.00 (558.8)	30.75 (781.05)	143	377-1380-ND	716.95	669.05	ER-16622-BT
Blue	47.31 (1201.67)	22.00 (558.8)	30.75 (781.05)	143	377-1381-ND	716.95	669.05	ER-16622-RB
Black	57.81 (1468.37)	22.00 (558.8)	30.75 (781.05)	160	377-1382-ND	747.75	697.75	ER-16623-BT
Blue	57.81 (1468.37)	22.00 (558.8)	30.75 (781.05)	160	377-1383-ND	747.75	697.75	ER-16623-RB
Black	66.56 (1690.62)	22.00 (558.8)	30.75 (781.05)	180	377-1384-ND	828.45	773.11	ER-16624-BT
Blue	66.56 (1690.62)	22.00 (558.8)	30.75 (781.05)	180	377-1385-ND	828.45	773.11	ER-16624-RB
Black	75.31 (49.91)	22.00 (558.8)	30.75 (781.05)	194	377-1386-ND	847.85	791.20	ER-16625-BT
Blue	75.31 (49.91)	22.00 (558.8)	30.75 (781.05)	194	377-1387-ND	847.85	791.20	ER-16625-RB
Black	84.06 (2135.12)	22.00 (558.8)	30.75 (781.05)	209	377-1388-ND	921.55	859.95	ER-16626-BT
Blue	84.06 (2135.12)	22.00 (558.8)	30.75 (781.05)	209	377-1389-ND	921.55	859.95	ER-16626-RB
*Economizer Upright Cabinet Racks – Non-Ventilated**								
Blue	47.31 (1201.67)	22.00 (558.8)	25.50 (647.7)	128	377-1353-ND	635.60	593.10	ER-16512-RB
Blue	57.81 (1468.37)	22.00 (558.8)	25.50 (647.7)	145	377-1354-ND	663.35	619.00	ER-16513-RB
Blue	66.56 (1690.62)	22.00 (558.8)	25.50 (647.7)	162	377-1355-ND	725.60	677.10	ER-16514-RB
Black	75.31 (49.91)	22.00 (558.8)	25.50 (647.7)	175	377-1356-ND	757.65	707.00	ER-16515-BT
Blue	75.31 (49.91)	22.00 (558.8)	25.50 (647.7)	175	377-1357-ND	757.65	707.00	ER-16515-RB
Black	84.06 (2135.12)	22.00 (558.8)	25.50 (647.7)	189	377-1358-ND	801.80	748.25	ER-16516-BT
Blue	84.06 (2135.12)	22.00 (558.8)	25.50 (647.7)	189	377-1359-ND	801.80	748.25	ER-16516-RB

*Due to weight and size, product will be drop shipped from Bud Industries direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.

Color	Dimensions - Inch (mm) A	B	C	Weight Lbs.	Digi-Key Part No	Price Each 1	3	Bud Ind. Part No.
*Fig. 7 — Turn-Key Cabinet Assembly**								
Black	75.31 (1912.87)	22.00 (558.8)	25.50 (647.7)	208	377-1345-ND†	1081.45	1009.40	DC-8002-BT
Blue	75.31 (1912.87)	22.00 (558.8)	25.50 (647.7)	208	377-1346-ND†	1081.45	1009.40	DC-8002-RB
Sand	75.31 (1912.87)	22.00 (558.8)	25.50 (647.7)	208	377-1347-ND†	1081.45	1009.40	DC-8002-S
Black	75.31 (1912.87)	22.00 (558.8)	25.50 (647.7)	208	377-1348-ND§	1030.45	961.60	DC-8075-BT
Black	84.06 (2135.12)	22.00 (558.8)	25.50 (647.7)	215	377-1349-ND§	1107.40	1033.41	DC-8076-BT
Black	84.06 (2135.12)	22.00 (558.8)	30.75 (781.05)	229	377-1350-ND§	1149.35	1072.55	DC-8078-BT

*Due to weight and size, product will be drop shipped from Bud Industries direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.
† Includes two SH-2385 ventilated shelves § Includes leveler kits

Rack Mount Chassis

Dim. A Inch (mm)	Handles	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 8 — Rack Mount Chassis						
5.25 (133.35)	H-9160-B	377-1268-ND	64.80	54.10	48.70	RM-14212
7.00 (177.8)	H-9111-B	377-1269-ND	74.20	61.95	55.75	RM-14213
5.25 (133.35)	H-9160-B	377-1392-ND	73.00	60.95	54.85	RM14222
7.00 (177.8)	H-9111-B	377-1393-ND	85.60	71.50	64.35	RM14223
8.75 (222.25)	H-9112-B	377-1394-ND	104.30	87.10	78.40	RM14224
10.50 (266.7)	H-9113-B	377-1395-ND	124.30	103.80	93.40	RM14225

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	25	Bud Ind. Part No.
Rack Mount Chassis Covers						
Solid Top or Bottom Cover	RM-14212-13	377-1310-ND	29.60	24.75	22.30	TBC-14252
Ventilated Top or Bottom Cover		377-1311-ND	33.10	27.65	24.90	TBC-14262
Solid Top or Bottom Cover	RM-14222-25	377-1396-ND	33.60	28.10	25.30	TBC14253
Ventilated Top or Bottom Cover		377-1397-ND	35.50	29.70	26.75	TBC14263

Dimensions - A x B x C Inch (mm)	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 9 — Small Rack Mount Chassis					
1.75 x 17.00 x 4.00 (44.45 x 431.8 x 101.6)	19.00 (482.6)	377-1205-ND	24.30	20.30	CH-14400
1.75 x 17.00 x 8.00 (44.45 x 431.8 x 203.2)	19.00 (482.6)	377-1206-ND	41.60	34.75	CH-14401
1.75 x 17.00 x 16.00 (44.45 x 431.8 x 406.4)	19.00 (482.6)	377-1207-ND	60.00	50.15	CH-14402
3.50 x 17.00 x 8.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1208-ND	61.40	51.25	CH-14403
3.50 x 17.00 x 16.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1209-ND	78.80	65.80	CH-14404

Dimensions - A x B x C Inch (mm)	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 10 — ValuLine Series Cabinets (with handles)					
3.50 x 17.00 x 8.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1238-ND	97.00	81.00	HC-14099
3.50 x 17.00 x 13.00 (88.9 x 431.8 x 330.2)	19.00 (482.6)	377-1239-ND	188.90	157.70	HC-14101
5.25 x 17.00 x 13.00 (133.35 x 431.8 x 330.2)	19.00 (482.6)	377-1240-ND	194.70	162.60	HC-14103
7.00 x 17.00 x 13.00 (177.8 x 431.8 x 330.2)	19.00 (482.6)	377-1241-ND	204.40	170.70	HC-14104
8.75 x 17.00 x 13.00 (222.25 x 431.8 x 330.2)	19.00 (482.6)	377-1242-ND	214.20	178.85	HC-14105
10.50 x 17.00 x 15.00 (266.7 x 431.8 x 381)	19.00 (482.6)	377-1243-ND	239.60	200.05	HC-14107

Accessories

Color	Max. Panel Keyboard Width – Inch (mm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 11 — Keyboard/Mouse Shelves					
Black	19.0 x 16.5 (482.6 x 419.1)	377-1244-ND	147.50	123.15	KS-1785-BT

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 12 — Sliding Drawers (inside dimensions)							
Black	6.31 (160.27)	19.18 (487.17)	16.56 (420.62)	377-1224-ND	220.00	183.70	D-1723-BT

Color	Dimensions - Inch (mm) Width	Depth	Digi-Key Part No.	Price Each 1	3	5	Bud Ind. Part No.
Fig. 13 — Stationary Shelves-Non Ventilated							
Black	17.90 (454.66)	26.50 (673.1)	377-1306-ND	73.20	54.85	51.25	SH-2382
	17.90 (454.66)	19.25 (488.95)	377-1188-ND	65.10	52.08	48.80	60-2380
	17.90 (454.66)	22.75 (577.85)	377-1189-ND	68.30	54.64	51.20	60-2381
	17.00 (431.8)	17.75 (450.85)	377-1416-ND† *NEW!*	118.00	—	88.40	SH-2388
Fig. 14 — Stationary Shelves-Ventilated							
Black	17.90 (454.66)	17.75 (450.85)	377-1307-ND	68.20	51.10	47.75	SH-2384
	17.90 (454.66)	21.25 (539.75)	377-1308-ND	70.70	53.00	49.50	SH-2385
	17.90 (454.66)	26.50 (673.1)	377-1309-ND	76.60	57.40	53.60	SH-2386
	17.00 (431.8)	17.75 (450.85)	377-1415-ND† *NEW!*	120.00	—	99.89	SH-2392

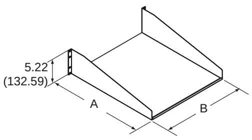
† Sliding Shelf

Color	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 15 — Adjustable Shelf-Open Rack							
Black	17.62 (447.55)	16.00 (406.4)	377-1289-ND	82.80	69.10	62.21	SA-1278-BT
	17.62 (447.55)	20.00 (508)	377-1290-ND	89.20	74.45	67.00	SA-1279-BT

(*Continued*)

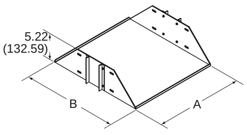
Racks *(Cont.)*

Fig. 16 – Equipment Shelves



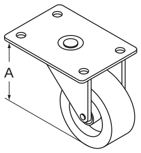
Fits 19" panel spaces. One piece construction. Supports 150 lbs.

Fig. 17 – Open Rack Shelves



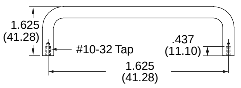
Fits 19" panel spaces. Supports 200 lbs.

Fig. 18 – Casters



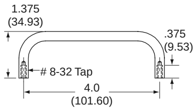
Heavy duty, ball bearing, swivel type. Hard tread rubber.

Fig. 19 – Handles



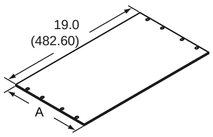
High quality, designed for long wear.

Fig. 20 – Handles



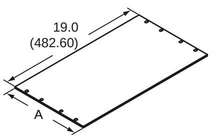
High quality, designed for long wear.

Fig. 21 – Shield Panels



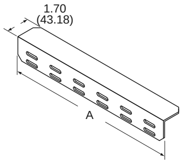
Mill finish aluminum panels. Pressure-sensitive paper on one side to protect and provides a surface for layouts.

Fig. 22 – Panels



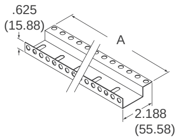
Hard aluminum 6061-T6.

Fig. 23 – Chassis Brackets



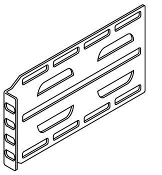
Attaches to panel mounting rail accessory flange. Sold in pairs.

Fig. 24 – Panel Mounting Rail *NEW!*



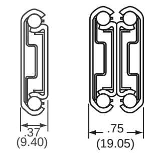
12 Gauge Steel. Rail mounting hardware included. (Uses #7346 screws, order separately.) Sold in pairs. Black finish.

Fig. 25 – Slide Brackets



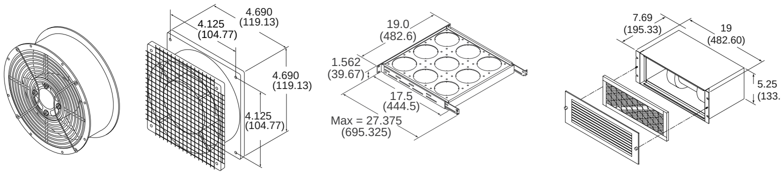
Designed for mounting two and three piece slides. Sold in pairs.

Fig. 26 – Slides



Telescoping slides are zinc plated, alloy steel, with ball bearings.

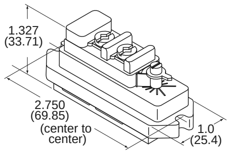
Fig. 27 – Fans and Blowers



FN-1280 mounts in FT-1170 fan tray or can be used for individual applications. Supplied with finger guard. UL approved, 105 CFM. FN-1282 mounts in the top of ventilated Economizer racks. Supplied with finger guard. UL/CSA rated, 535 CFM.

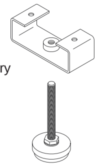
19" panel width with standard E.I.A. notching for rack mounting. Motors are U.L and CSA approved for 115 VAC 50/60Hz.

Fig. 28 – Tem - Stat



Prevent shut-downs caused by overheating. Contacts open when there is a 10° +5°F drop in temperature.

Fig. 29 – Levelers



All necessary hardware included

Nickel-plated steel cap and stem. Kit consists of two levelers and mounting brackets. Used on Economizer and Classic II.

Color	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 16 — Equipment Shelf-Open Rack-Non Ventilated							
Black	17.62 (447.55)	15.00 (381)	377-1291-ND	60.30	50.35	45.30	SA-1750-BT
	17.62 (447.55)	20.00 (508)	377-1293-ND	72.10	60.20	54.20	SA-1752-BT
Fig. 16 — Equipment Shelf-Open Rack-Ventilated							
Black	17.62 (447.55)	15.00 (381)	377-1292-ND	65.90	55.05	49.55	SA-1751-BT
	17.62 (447.55)	20.00 (508)	377-1294-ND	78.20	65.30	58.75	SA-1753-BT
Fig. 17 — Open Rack Shelf-Non Ventilated							
Black	17.62 (447.55)	19.00 (482.6)	377-1295-ND	76.00	63.45	57.10	SA-1765-BT

Wheel Description	Dim. A Inch (mm)	Load Rating	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 18 — Casters (Sold in Pairs)							
Composition	3.25 (82.55)	200 lbs.	377-1264-ND	28.60	23.85	21.45	RC-7758-PR
Rubber w/Brake	5.13 (130.18)	240 lbs.	377-1265-ND	67.45	56.15	50.55	RC-7761-PR
Rubber	5.13 (130.18)	240 lbs.	377-1266-ND	58.30	48.60	43.75	RC-7762-PR

Dimensions - Inch (mm) Hand Clearance	Mounting Center	Diameter	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 19 — Chrome Plated Handles							
1.25 (31.75)	6.00 (152.4)	.37 (9.398)	377-1228-ND*	8.30	6.95	6.25	H-9110-B
.93 (23.62)	4.00 (101.6)	.37 (9.398)	377-1229-ND*	6.40	5.30	4.75	H-9111-B
.93 (23.62)	6.00 (152.4)	.37 (9.398)	377-1230-ND*	7.80	6.50	5.85	H-9112-B
.93 (23.62)	8.00 (203.2)	.37 (9.398)	377-1231-ND	10.60	8.85	7.95	H-9113-B
1.50 (38.1)	8.00 (203.2)	.50 (12.7)	377-1232-ND†	16.50	13.80	12.40	H-9114-B
1.68 (3.36)	3.50 (88.9)	.37 (9.398)	377-1233-ND†	12.40	10.35	9.30	H-9160-B
1.68 (3.36)	5.25 (133.35)	.37 (9.398)	377-1234-ND†	10.60	8.90	8.00	H-9161-B
1.00 (25.4)	1.90 (48.26)	.25 (6.35)	377-1235-ND§	6.00	5.00	4.50	H-9166-B
1.00 (25.4)	3.00 (76.2)	.25 (6.35)	377-1236-ND§	5.70	4.70	4.25	H-9168-B

* Includes 2 - #10-32 x .37" screws. † Includes 2 - #6-32 x .50" screws. § Includes 2 - 1/4"-28 Hex nuts.

Dimensions - Inch (mm) Hand Clearance	Mounting Center	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 20 — Clear Anodized Aluminum Handles						
1.09 (27.69)	4.00 (101.6)	377-1237-ND*	10.85	9.05	8.15	H-9174-B

* Includes 2-8.32 x .37" screws

Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 21 — 19" Aluminum Surface Shield Panels - .12" Thick					
1.75 (44.45)	377-1300-ND	9.50	7.95	7.15	SFA-1831
3.50 (88.9)	377-1301-ND	13.90	11.55	10.40	SFA-1832
5.25 (133.35)	377-1302-ND	17.80	14.90	13.40	SFA-1833
7.00 (177.8)	377-1303-ND	22.80	19.05	17.15	SFA-1834
8.75 (222.25)	377-1304-ND	25.00	20.85	18.75	SFA-1835
10.50 (266.7)	377-1305-ND	32.40	27.00	24.30	SFA-1836
Fig. 22 — 19" Aluminum Panels – .12" Thick (Gray)					
1.75 (44.45)	377-1247-ND	10.35	8.65	7.80	PA-1101-MG
3.50 (88.9)	377-1248-ND	14.40	12.00	10.80	PA-1102-MG
5.25 (133.35)	377-1249-ND	19.70	16.40	14.75	PA-1103-MG
7.00 (177.8)	377-1250-ND	24.50	20.50	18.45	PA-1104-MG
8.75 (222.25)	377-1251-ND	29.70	24.80	22.30	PA-1105-MG

Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
10.50 (266.7)	377-1252-ND	37.70	31.50	28.35	PA-1106-MG
12.25 (311.15)	377-1253-ND	41.40	34.50	31.05	PA-1107-MG
14.00 (355.6)	377-1254-ND	46.10	38.45	34.60	PA-1108-MG

Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 23 — Chassis Support Brackets (Sold in Pairs)					
13.00 (330.2)	377-1213-ND	26.80	22.35	20.10	CSB-1352
16.00 (406.4)	377-1214-ND	29.00	24.20	21.80	CSB-1353
23.00 (584.2)	377-1215-ND	31.40	26.20	23.60	CSB-1354

Dim. A Inch (m)	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
NEW! Fig. 24 — Panel Mounting Rails (Sold in Pairs) NEW!					
70.0 (21.34)	377-1413-ND	97.10	81.10	64.90	PMR-9453

Description	Digi-Key Part No.	Price Each 1	3	5	Bud Ind. Part No.
Fig. 25 — Slide Mounting Brackets (Sold in Pairs)					
Universal Kit	377-1204-ND	30.20	25.05	22.55	BAS-5106

Dimensions - Inch (mm) Slide Length	Travel	Load Rating (per pair)	Digi-Key Part No.	Price Each 1	3	5	Bud Ind. Part No.
Fig. 26 — Sliding Mechanisms - 2 Piece Slide							
12 (304.8)	8 (203.2)	140 lbs.	377-1199-ND	30.50	25.45	22.90	AS-5000-A
16 (406.4)	12 (304.8)	120 lbs.	377-1200-ND	40.10	33.50	30.15	AS-5001-A
20 (508)	15 (381)	92 lbs.	377-1201-ND	42.00	35.10	31.60	AS-5002-A
26 (660.4)	19 (482.6)	70 lbs.	377-1202-ND	46.40	38.75	34.90	AS-5004-A
20 (508)	20.875 (530.23)	91 lbs.	377-1203-ND*	91.00	76.00	68.40	AS-5042-A

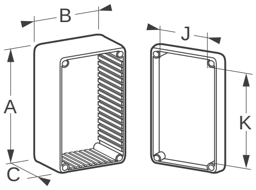
* 3 Piece slide full extension

Description	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 27 — Fans, Blowers					
Tubeaxial, 110 Volt .21 Amps	377-1225-ND	46.88	37.50	28.15	FN-1280
Exhaust, 10 inch 115 VAC	377-1226-ND	158.90	119.20	111.25	FN-1282
Fan Tray Assembly	377-1227-ND*	208.40	156.30	145.90	FT-1170-MG
Blower, 115VAC	377-1411-ND *NEW!*	498.40	373.85	348.90	B-62
Fig. 28 — Tem-Stat Temperature Control					
Normally Open; Closes on Temperature Rise	377-1314-ND	23.70	—	17.80	TS-15
Fig. 29 — Stem Levelers Kit					
Kit (Two Levelers and Mounting Brackets)	377-1267-ND	47.90	—	40.00	RL-7770
NEW! Rackmount Power Outlet Strip NEW!					
15 Amps	377-1414-ND	66.00	49.50	46.25	POS-194-S
Mounting Hardware					
6-32 X .5" Phillips Screw Flat Head	377-1406-ND		6.00/25		3313
10-32 X .62" Phillips Screw Truss Head	377-1403-ND		4.00/25		7346
10-32 X .62" Phillips Screw with Pilot, Black	377-1409-ND		4.00/25		7346B
#10 Recessed Nylon Washer	377-1410-ND		6.00/25		TP 2070
10-32 Cage Nut, Zinc Plated	377-1405-ND		21.25/25		295
12-24 X .5" Phillips Screw Truss Head	377-1404-ND		5.00/25		9260

* Order fans separately. Part Number: 377-1225-ND.

Plastic and Aluminum Enclosures

Fig. 1 – Plastic Instrument Enclosures - 1591 Series

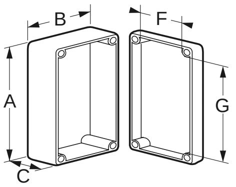


Lid adds 4mm to height of box.
For dimensions A, B and C, see charts below.

Part No.	Dim. Inch (mm) J	K
1591L	1.4 (36)	2.5 (64)
1591A	1.1 (28)	3.1 (79)
1591B	1.6 (41)	3.5 (89)
1591C	1.7 (43)	3.9 (99)
1591D	2.3 (58)	5.0 (127)
1591E	3.5 (89)	6.6 (168)
1591G	2.8 (71)	3.9 (99)
1591H	1.9 (48)	5.6 (142)
1591M	1.3 (33)	2.5 (64)
1591S	2.4 (61)	3.5 (89)
1591T	2.3 (58)	3.9 (99)
1591U	3.9 (99)	3.9 (99)
1591V	3.9 (99)	3.9 (99)

Available in both High Impact Polystyrene (black) and in Flame Retardant ABS (black, blue, translucent blue, or light grey). Economical styrene versions come with four self-tapping #4 x 1/2" (12.7mm) flat head screws countersunk into the lid. ABS versions carry a UL flammability rating of 94V-0 at 1.47mm thickness and a continuous use temperature rating of 60°C. ABS versions come with M3 x .5 x 10mm Phillips head screws, countersunk lid, and integral tapped brass bushings. Both versions have interlocking flanged lid and integral card guides to accept .062" (1.57mm) PC cards.

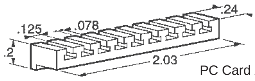
Fig. 2 – Diecast Aluminum Enclosures



Lid adds 4mm to height of box (except for 1500Z series). For dimensions A, B, and C, see charts below.

Lid Height for 1590 Heavy Duty Watertight Diecast Aluminum Alloy Enclosure	
Part No.	**Dim. Inch (mm)**
1590Z100	0.5 (13)
1590Z110	0.5 (13)
1590Z120	0.6 (15)
1590Z130	0.5 (13)
1590Z135	0.8 (20)
1590Z150	0.8 (20)
1590Z160	0.8 (20)

Part No.	Dim. - Inch (mm) F	G
1590A	0.9 (23)	3.0 (76)
1590B	1.7 (43)	3.8 (97)
1590BB	3.1 (77)	4.0 (102)
1590C	3.1 (77)	4.1 (104)
1590D	4.1 (104)	6.8 (173)
1590DD	4.1 (104)	6.8 (173)
1590E	4.1 (104)	6.8 (173)
1590F	6.8 (173)	6.8 (173)
1590H	0.9 (23)	1.4 (36)
1590J	3.1 (79)	5.1 (130)
1590K	4.3 (109)	4.3 (109)
1590LB	1.4 (36)	1.4 (36)
1590P1	2.9 (74)	5.4 (137)
1590S	2.6 (66)	3.7 (94)
1590T	2.5 (64)	4.1 (104)
1590U	4.1 (104)	4.1 (104)
1590V	4.1 (104)	4.1 (104)
1590G	1.3 (33)	3.3 (84)
1590N1	1.9 (48)	4.1(104)
1590R1	4.0 (102)	6.9 (175)



PC Card Adapter

1590 Series: Drilled and tapped with lid and 6-32 x 1/2" (12.7mm) countersunk Phillips screws. Choice of standard, flanged or watertight lid. Interlocking flanged lid provides complete RF shielding. Watertight lid has a clear bead of rubberlike silicon around the perimeter to provide protection against dust and water. Designed to meet IP54.

1590Z Series: Watertight, heavy duty - thick wall. Two piece "tongue and groove" construction with a neoprene gasket provides protection against dust and water. Four recessed stainless steel machine screws and individual neoprene "O" rings secure lid. Optional M4x6mm copper grounding screws with designated enclosures. Designed to meet IP65.

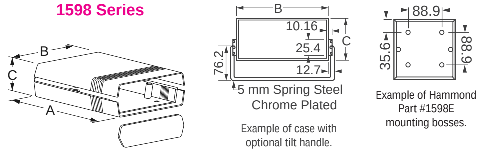
Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Hammond
	A	B	C	Part No.	1	10	100	Part No.
Fig. 1 - 1591 Economy Styrene Plastic Enclosures								
Black	3.3 (85)	2.2 (56)	1.4 (35)	HM100-ND	3.42	2.85	2.63	1591LSBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM361-ND	2.88	2.40	2.22	1591MSBK
	3.9 (100)	2.0 (50)	0.8 (21)	HM102-ND	3.18	2.65	2.45	1591ASBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM109-ND	4.64	3.87	3.57	1591SSBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM103-ND	3.44	2.87	2.65	1591BSBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM104-ND	3.64	3.03	2.80	1591CSBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM110-ND	5.10	4.25	3.92	1591TSBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM111-ND	5.48	4.57	4.22	1591USBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM112-ND	6.56	5.47	5.05	1591VSBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM107-ND	4.32	3.60	3.32	1591GSBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM105-ND	5.42	4.52	4.17	1591DSBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM108-ND	4.30	3.58	3.31	1591HSBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM106-ND	6.48	5.40	4.98	1591ESBK
Fig. 1 - 1591 ABS Flame Retardant Plastic Enclosures								
Black	3.3 (85)	2.2 (56)	1.4 (35)	HM113-ND	5.46	4.55	4.20	1591LBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM362-ND	4.32	3.60	3.32	1591MBK
	3.3 (85)	2.2 (56)	1.4 (35)	HM847-ND	5.74	4.78	4.42	1591LFLBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM848-ND	4.54	3.78	3.49	1591MFLBK
	3.9 (100)	2.0 (50)	0.8 (21)	HM114-ND	5.08	4.23	3.91	1591ABK
	3.9 (100)	2.0 (50)	0.8 (21)	HM858-ND	5.34	4.45	4.11	1591AFLBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM849-ND	7.76	6.47	5.97	1591SFLBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM121-ND	7.40	6.17	5.69	1591SBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM850-ND	5.78	4.82	4.45	1591BFLBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM115-ND	5.50	4.58	4.23	1591BBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM854-ND	11.00	9.17	8.46	1591VFLBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM853-ND	9.20	7.67	7.08	1591UFLBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM851-ND	6.14	5.12	4.72	1591CFLBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM852-ND	8.58	7.15	6.60	1591TFLBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM855-ND	7.26	6.05	5.58	1591GFLBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM116-ND	5.86	4.88	4.51	1591CBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM122-ND	8.18	6.82	6.29	1591TBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM123-ND	8.76	7.30	6.74	1591UBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM124-ND	10.48	8.73	8.06	1591VBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM119-ND	6.92	5.77	5.32	1591GBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM856-ND	9.08	7.57	6.98	1591DFLBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM117-ND	8.66	7.22	6.66	1591DBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM120-ND	6.88	5.73	5.29	1591HBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM859-ND	7.22	6.02	5.55	1591HFLBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM857-ND	10.31	8.83	8.15	1591EFLBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM118-ND	10.38	8.65	7.98	1591EBK
Blue	3.3 (85)	2.2 (56)	1.4 (35)	HM125-ND	5.46	4.78	4.42	1591LBU
	3.3 (85)	2.2 (56)	0.8 (21)	HM363-ND	4.32	3.60	3.32	1591MBU
	3.9 (100)	2.0 (50)	0.8 (21)	HM126-ND	5.08	4.23	3.91	1591ABU
	4.3 (110)	3.2 (82)	1.6 (41)	HM134-ND	7.40	6.17	5.69	1591SBU
	4.4 (112)	2.4 (62)	1.1 (27)	HM127-ND	5.50	4.58	4.23	1591BBU
	4.7 (120)	2.6 (65)	1.4 (36)	HM128-ND	5.86	4.88	4.51	1591CBU
	4.7 (120)	3.2 (80)	2.2 (56)	HM135-ND	8.18	6.82	6.29	1591TBU
	4.7 (120)	4.7 (120)	2.2 (56)	HM136-ND	8.76	7.30	6.74	1591UBU
	4.7 (120)	4.7 (120)	3.5 (90)	HM137-ND	10.48	8.73	8.06	1591VBU
	4.8 (121)	3.7 (94)	1.2 (30)	HM132-ND	6.92	5.77	5.32	1591GBU
	5.9 (150)	3.2 (80)	1.8 (46)	HM129-ND	8.66	7.22	6.66	1591DBU
	6.5 (165)	2.8 (71)	1.0 (25)	HM133-ND	6.88	5.73	5.29	1591HBU
	7.5 (191)	4.3 (110)	2.2 (56)	HM131-ND	10.38	8.65	7.98	1591EBU
Lt. Grey	3.3 (85)	2.2 (56)	1.4 (35)	HM138-ND	5.46	4.55	4.20	1591LGY
	3.3 (85)	2.2 (56)	0.8 (21)	HM364-ND	4.32	3.60	3.32	1591MGY
	3.9 (100)	2.0 (50)	0.8 (21)	HM139-ND	5.08	4.23	3.91	1591AGY
	4.3 (110)	3.2 (82)	1.6 (41)	HM146-ND	7.40	6.17	5.69	1591SGY
	4.4 (112)	2.4 (62)	1.1 (27)	HM140-ND	5.50	4.58	4.23	1591BGY
	4.7 (120)	2.6 (65)	1.4 (36)	HM141-ND	5.86	4.88	4.51	1591CGY
	4.7 (120)	3.2 (80)	2.2 (56)	HM147-ND	8.18	6.82	6.29	1591TGY
	4.7 (120)	4.7 (120)	2.2 (56)	HM148-ND	8.76	7.30	6.74	1591UGY
	4.7 (120)	4.7 (120)	3.5 (90)	HM149-ND	10.48	8.73	8.06	1591VGY
	4.8 (121)	3.7 (94)	1.2 (30)	HM144-ND	6.92	5.77	5.32	1591GGY
	5.9 (150)	3.2 (80)	1.8 (46)	HM142-ND	8.66	7.22	6.66	1591DGY
	6.5 (165)	2.8 (71)	1.0 (25)	HM145-ND	6.88	5.73	5.29	1591HGY
	7.5 (191)	4.3 (110)	2.2 (56)	HM143-ND	10.38	8.65	7.98	1591EGY

Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Hammond
	A	B	C	Part No.	1	10	100	Part No.
Fig. 1 - 1591 Translucent Polycarbonate Enclosures								
Ice Blue	3.9 (100)	2.0 (50)	0.8 (21)	HM878-ND	5.08	4.23	3.91	1591ATBU
	4.4 (112)	2.4 (62)	1.1 (27)	HM876-ND	5.50	4.58	4.23	1591BTBU
	4.7 (120)	2.6 (65)	1.4 (36)	HM877-ND	5.86	4.88	4.51	1591CTBU
Fig. 2 - PC Card Adapter								
PC Card Adapter for 1591 Boxes				HM204-ND	2.25	1.91	1.77	1591Z6
Fig. 2 - 1590 Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM157-ND	7.44	6.20	5.72	1590LB
	2.1 (53)	1.5 (38)	1.1 (28)	HM365-ND	6.40	5.33	4.92	1590H
	3.6 (91)	1.5 (38)	1.1 (28)	HM150-ND	7.22	6.02	5.56	1590A
	3.9 (99)	2.0 (51)	0.8 (20)	HM841-ND	7.72	6.43	5.94	1590G
	4.4 (112)	3.2 (81)	1.6 (41)	HM158-ND	10.88	9.07	8.37	1590S
	4.4 (112)	2.3 (58)	1.1 (28)	HM151-ND	8.24	6.87	6.34	1590B
	4.7 (119)	3.7 (94)	1.2 (30)	HM152-ND	10.72	8.93	8.25	1590BB
	4.7 (119)	4.7 (119)	2.2 (56)	HM160-ND	16.48	13.73	12.68	1590U
	4.7 (119)	4.7 (119)	3.5 (89)	HM161-ND	22.66	18.88	17.43	1590V
	4.7 (119)	3.7 (94)	2.1 (53)	HM153-ND	12.06	10.05	9.28	1590C
	4.7 (119)	3.1 (79)	2.2 (56)	HM159-ND	11.22	9.35	8.63	1590T
	4.8 (122)	2.6 (66)	1.4 (36)	HM842-ND	11.24	9.37	8.65	1590N1
	4.9 (124)	4.9 (124)	3.0 (76)	HM367-ND	20.60	17.17	15.85	1590K
	5.7 (145)	3.7 (94)	1.8 (45)	HM366-ND	12.66	10.55	9.74	1590J
	6.0 (152)	3.2 (81)	1.8 (45)	HM348-ND	14.72	12.27	11.32	1590P1
	7.4 (188)	4.7 (119)	2.1 (53)	HM154-ND	19.74	16.45	15.18	1590D
	7.4 (188)	4.7 (119)	3.1 (79)	HM155-ND	21.12	17.61	16.25	1590E
	7.4 (188)	7.4 (188)	2.5 (64)	HM156-ND	28.38	23.65	21.83	1590F
	7.4 (188)	4.7 (119)	1.3 (33)	HM347-ND	17.36	14.47	13.65	1590DD
	7.6 (193)	4.4 (112)	2.2 (56)	HM843-ND	23.62	19.68	18.17	1590R1
Fig. 2 - 1590 Flanged Lid Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM570-ND	8.18	6.82	6.29	1590LBFL
	3.7 (94)	1.5 (38)	1.1 (28)	HM571-ND	7.94	6.62	6.11	1590AFL
	3.9 (99)	2.0 (51)	0.8 (20)	HM879-ND	8.50	7.08	6.54	1590GFL
	4.4 (112)	3.2 (81)	1.6 (41)	HM575-ND	11.96	9.97	9.20	1590SFL
	4.4 (112)	2.3 (58)	1.1 (28)	HM572-ND	9.06	7.55	6.97	1590BFL
	4.7 (119)	3.7 (94)	1.2 (30)	HM573-ND	11.78	9.82	9.06	1590BBFL
	4.7 (119)	4.7 (119)	2.2 (56)	HM580-ND	18.12	15.10	13.94	1590UFL
	4.7 (119)	4.7 (119)	3.5 (89)	HM583-ND	24.92	20.77	19.17	1590VFL
	4.7 (119)	3.7 (94)	2.1 (53)	HM578-ND	13.26	11.05	10.20	1590CFL
	4.7 (119)	3.1 (79)	2.2 (56)	HM579-ND	12.34	10.28	9.49	1590TFL
	4.8 (122)	2.6 (66)	1.4 (36)	HM881-ND	11.44	9.53	8.80	1590N1FL
	6.0 (152)	3.2 (81)	1.8 (45)	HM576-ND	16.20	13.50	12.46	1590P1FL
	7.4 (188)	4.7 (119)	2.1 (53)	HM577-ND	21.70	18.08	16.69	1590DFL
	7.4 (188)	7.4 (188)	2.5 (64)	HM581-ND	31.22	26.02	24.02	1590FFL
	7.4 (188)	4.7 (119)	3.1 (79)	HM582-ND	23.22	19.35	17.86	1590EFL
	7.4 (188)	4.7 (119)	1.3 (33)	HM574-ND	19.10	15.92	14.69	1590DDFL
	7.6 (193)	4.4 (112)	2.2 (56)	HM880-ND	26.00	21.67	20.00	1590R1FL
Fig. 2 - 1590 Watertight Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM584-ND	8.14	6.78	6.26	1590WLB
	2.1 (53)	1.5 (38)	1.1 (28)	HM835-ND	7.14	5.95	5.49	1590WH
	3.6 (91)	1.5 (38)	1.1 (28)	HM585-ND	8.32	6.93	6.40	1590WA
	3.9 (99)	2.0 (51)	0.8 (20)	HM837-ND	7.72	6.43	5.94	1590WG
	4.4 (112)	3.2 (81)	1.6 (41)	HM589-ND	12.04	10.03	9.26	1590WS
	4.4 (112)	2.3 (58)	1.1 (28)	HM586-ND	9.44	7.87	7.26	1590WB
	4.7 (119)	3.7 (94)	1.2 (30)	HM587-ND	11.94	9.95	9.18	1590WBB
	4.7 (119)	4.7 (119)	2.2 (56)	HM594-ND	17.92	14.93	13.78	1590WU
	4.7 (119)	4.7 (119)	3.5 (89)	HM597-ND	24.08	20.07	18.52	1590WV
	4.7 (119)	3.7 (94)	2.1 (53)	HM592-ND	13.20	11.00	10.15	1590WC
	4.7 (119)	3.1 (79)	2.2 (56)	HM593-ND	12.38	10.32	9.52	1590WT
	4.8 (122)	2.6 (66)	1.4 (36)	HM840-ND	13.28	11.07	10.22	1590WN1
	4.9 (124)	4.9 (124)	3.0 (76)	HM838-ND	22.06	18.38	16.97	1590WK
	5.7 (145)	3.7 (94)	1.8 (45)	HM839-ND	13.86	11.55	10.66	1590WJ
	6.0 (152)	3.2 (81)	1.8 (45)	HM590-ND	16.22	13.52	12.48	1590WP1
	7.4 (188)	4.7 (119)	2.1 (53)	HM591-ND	21.36	17.80	16.43	1590WD
	7.4 (188)	7.4 (188)	2.5 (64)	HM595-ND	30.58	25.48	23.52	1590WF
	7.4 (188)	4.7 (119)	3.1 (79)	HM596-ND	22.74	18.95	17.49	1590WE
	7.4 (188)	4.7 (119)	1.3 (33)	HM588-ND	19.02	15.85	14.63	1590WDD
	7.6 (193)	4.4 (112)	2.2 (56)	HM833-ND	26.00	21.67	20.00	1590WR1

(Continued)

Plastic and Aluminum Enclosures *(Cont.)*

Fig. 3 – Plastic Instrument Cases - 1598 Series



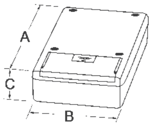
5 mm Spring Steel Chrome Plated

Example of case with optional tilt handle.

Example of Hammond Part #1598E mounting bosses.

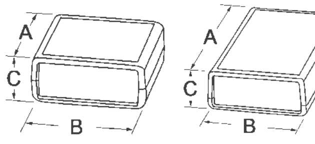
Available in both Flame Retardant ABS (black or light grey) and High Impact Polystyrene (light grey). Both versions have a matte textured finish, .064" (1.63mm) thick brushed aluminum front and rear panels, integral horizontal PC board mounts on Eurocard centers, front and rear vertical PC board slots. Both versions accept optional tilt handles. ABS versions carry a UL flammability rating of 94V-0 and are secured with M3 x .5 x 10mm Phillips head screws into integral brass bushings. Styrene versions are secured with #4 x 1/2" (12.7mm) self-tapping screws.

Fig. 4 – Plastic Hand Held Cases - 1599 Series



Available in both High Impact Polystyrene (light grey) and Flame Retardant ABS (black or light grey). Both versions have these features: attractively styled and ergonomically designed for use as a hand held enclosure; ends sized for infra-red applications; extra deep top and ultra shallow base; two piece lap joint construction; recessed top area ideal for membrane display; internal universal battery compartment; user friendly 10mm x 10mm reference grid is molded into the top interior; six PC board mounting bosses molded into both the top and the base; vertical mounting slots molded into the top for PC boards or optional dividers. ABS versions carry UL flammability rating of 94V-0 and are secured with integral tapped brass bushings. Styrene versions are secured with self-tapping screws.

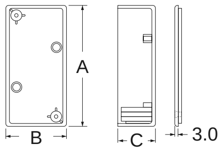
Fig. 5 – Plastic Hand Held Instrument Boxes -1593 Series



1593K **1593Q**

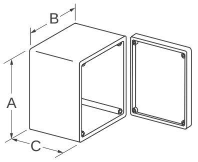
Electronic instrument enclosures. Two-piece lap joint construction. ABS plastic. Unit is secured with self-tapping screws.

Fig. 6 – Miniature General Purpose Enclosures - 1551 Series



Two piece lap joint construction. Choice of black or grey ABS plastic. Designed to meet IP54.

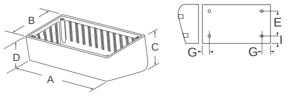
Fig. 7 – Plastic Instrument Boxes - 1594 Series



Cover adds 12mm to height

Available in both High Impact Polystyrene (light grey) and Flame Retardant ABS (black or light grey). Both versions feature lap joint construction, interlocking flange on lid, and a rugged and robust design.

Fig. 8 – Plastic Instrument Consoles - 1595 Series



Part No.	Dimensions			
	D	E	G	I
1595C	39.6	62.2	21.8	10.2
1595E	51.6	85.1	21.8	10.2

Aluminum lid and rubber feet included.

For dimensions A, B and C, see charts below.

Available in Flame Retardant ABS (black or light grey) which meets UL 94V-0 flammability tests. Unique sloped front design comes with 0.04" (1.02mm) thick brushed aluminum front panel, four self-adhesive rubber feet, and four M3 x .5 x 10mm machine screws threaded into integral brass bushings. Integral card guides accept .062" (1.57mm) PC boards. Base has four internal 0.20" (5.08mm) stand-off bosses.

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
Fig. 2 - 1590 Heavy Duty Watertight Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (50)	1.8 (46)	1.0 (25)	HM834-ND	8.44	7.14	6.63	1590Z060
	2.5 (64)	2.3 (58)	1.0 (25)	HM836-ND	11.42	9.66	8.97	1590Z061
	3.0 (76)	3.1 (79)	1.6 (41)†	HM598-ND⋆	16.67	14.11	13.10	1590Z100
	2.9 (75)	3.1 (80)	1.6 (41)†	HM599-ND	16.67	14.11	13.10	1590Z110
	3.9 (99)	2.5 (64)	1.0 (25)	HM831-ND	13.49	11.42	10.60	1590Z062
	4.8 (121)	4.7 (120)	2.4 (62)	HM845-ND	36.71	31.06	28.84	1590Z119
	4.9 (124)	3.2 (81)	1.7 (43)†	HM600-ND⋆	20.22	17.11	15.89	1590Z120
	5.9 (150)	2.5 (64)	1.0 (25)	HM832-ND	19.67	16.65	15.46	1590Z063
	6.3 (160)	6.3 (160)	2.8 (71)†	HM604-ND⋆‡	48.69	41.20	38.27	1590Z160
	6.9 (175)	3.2 (81)	1.6 (41)†	HM601-ND	23.96	20.28	18.83	1590Z130
	6.9 (175)	3.2 (81)	1.6 (41)†	HM602-ND‡	24.35	20.60	19.13	1590Z135
	8.7 (221)	4.8 (120)	2.4 (61)†	HM603-ND⋆	44.02	37.25	34.59	1590Z150
	7.9 (201)	9.1 (231)	3.6 (91)	HM846-ND	106.75	90.32	83.88	1590Z231
	10.2 (259)	6.3 (160)	2.8 (71)	HM844-ND	66.11	55.94	51.94	1590Z162
Fig. 3 - 1598 ABS Flame Retardant 2-Piece Plastic Instrument Case								
Black	5.3 (135)	5.3 (135)	2.0 (50)	HM163-ND	11.00	9.17	8.46	1598BBK
	6.2 (157)	3.7 (94)	1.4 (36)	HM162-ND	10.02	8.35	7.71	1598ABK
	6.3 (160)	6.3 (160)	3.4 (86)	HM166-ND	16.52	13.77	12.71	1598EBK
	7.1 (180)	6.1 (155)	1.4 (36)	HM368-ND	11.16	9.30	8.58	1598BBBK
	7.1 (180)	6.1 (155)	2.0 (50)	HM164-ND	13.76	11.47	10.58	1598CBK
	7.1 (180)	8.1 (206)	2.5 (64)	HM165-ND	16.80	14.00	12.92	1598DBK
	9.8 (249)	6.3 (160)	1.6 (41)	HM167-ND	17.64	14.70	13.57	1598FBK
	9.8 (249)	6.3 (160)	3.0 (76)	HM168-ND	20.68	17.23	15.91	1598GBK
	11.0 (279)	7.9 (201)	1.6 (41)	HM169-ND	21.70	18.08	16.69	1598HBK
	11.0 (279)	7.9 (201)	3.0 (76)	HM170-ND	26.90	22.42	20.69	1598JBK
Lt. Grey	5.3 (135)	5.3 (135)	2.0 (50)	HM172-ND	11.00	9.17	8.46	1598BGY
	6.2 (157)	3.7 (94)	1.4 (36)	HM171-ND	10.02	8.35	7.71	1598AGY
	7.1 (180)	6.1 (155)	1.4 (36)	HM369-ND	11.16	9.30	8.58	1598BBGY
	7.1 (180)	6.1 (155)	2.0 (50)	HM173-ND	13.76	11.47	10.58	1598CGY
	7.1 (180)	8.1 (206)	2.5 (64)	HM174-ND	16.80	14.00	12.92	1598DGY
	6.3 (160)	6.3 (160)	3.4 (86)	HM175-ND	16.52	13.77	12.71	1598EGY
	9.8 (249)	6.3 (160)	1.6 (41)	HM176-ND	17.64	14.70	13.57	1598FGY
	9.8 (249)	6.3 (160)	3.0 (76)	HM177-ND	20.68	17.23	15.91	1598GGY
	11.0 (279)	7.9 (201)	1.6 (41)	HM178-ND	21.70	18.08	16.69	1598HGY
	11.0 (279)	7.9 (201)	3.0 (76)	HM179-ND	26.90	22.42	20.69	1598JGY
Fig. 3 - 1598 Styrene 2-Piece Plastic Instrument Cases								
Lt. Grey	5.3 (135)	5.3 (135)	2.0 (50)	HM246-ND	8.24	6.87	6.34	1598BSGY
	6.2 (157)	3.7 (94)	1.4 (36)	HM245-ND	7.36	6.13	5.66	1598ASGY
	6.3 (160)	6.3 (160)	3.4 (86)	HM249-ND	11.52	9.60	8.86	1598ESGY
	7.1 (180)	6.1 (155)	1.4 (36)	HM370-ND	8.90	7.42	6.85	1598BBSGY
	7.1 (180)	6.1 (155)	2.0 (50)	HM247-ND	9.66	8.05	7.43	1598CSGY
	7.1 (180)	8.1 (206)	2.5 (64)	HM248-ND	11.58	9.65	8.91	1598DSGY
	9.8 (249)	6.3 (160)	1.6 (41)	HM250-ND	11.28	9.40	8.68	1598FSGY
	9.8 (249)	6.3 (160)	3.0 (76)	HM251-ND	13.22	11.02	10.17	1598GSGY
	11.0 (279)	7.9 (201)	1.6 (41)	HM252-ND	13.20	11.00	10.15	1598HSGY
	11.0 (279)	7.9 (201)	3.0 (76)	HM253-ND	15.38	12.82	11.83	1598JSGY
Chrome Plated Tilt Handles for Instrument Cases								
Handle for 1598C, E, F, G Series				HM255-ND	11.48	9.57	8.83	1598TH1
Handle for 1598D, H, J Series				HM256-ND	11.48	9.57	8.83	1598TH2
Fig. 4 - 1599 Styrene Hand Held Cases								
Grey	5.1 (130)	2.6 (66)	1.0 (25)	HM209-ND	5.40	4.50	4.15	1599BSGY
	6.7 (170)	3.4 (86)	1.3 (33)	HM210-ND	6.08	5.07	4.68	1599ESGY
	8.7 (221)	4.3 (109)	1.7 (43)	HM211-ND	6.98	5.82	5.37	1599HSGY
	8.7 (221)	5.5 (140)	1.2 (30)	HM873-ND	9.48	7.90	7.29	1599KSGY
Fig. 4 - 1599 ABS Hand Held Cases								
Black	5.1 (130)	2.6 (66)	1.0 (25)	HM212-ND	7.10	5.92	5.46	1599BBK
	6.7 (170)	3.4 (86)	1.3 (33)	HM213-ND	8.64	7.20	6.65	1599EBK
	8.7 (221)	4.3 (109)	1.7 (43)	HM214-ND	10.58	8.82	8.14	1599HBK
Lt. Grey	5.1 (130)	2.6 (66)	1.0 (25)	HM215-ND	7.10	5.92	5.46	1599BGY
	6.7 (170)	3.4 (86)	1.3 (33)	HM216-ND	8.64	7.20	6.65	1599EGY
	8.7 (221)	4.3 (109)	1.7 (43)	HM217-ND	10.58	8.82	8.14	1599HGY
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM865-ND	11.34	9.45	8.73	1599KBK
Grey	8.7 (221)	5.5 (140)	1.6 (41)	HM866-ND	11.34	9.45	8.73	1599KGY

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
Fig. 4 - 1599 ABS Hand Held Case with Battery Box								
Black	5.1 (130)	2.6 (66)	1.0 (25)	HM351-ND	8.96	7.47	6.89	1599BBKBAT
	6.7 (170)	3.4 (86)	1.3 (33)	HM353-ND	10.66	8.88	8.20	1599EBKBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM863-ND	14.42	12.02	11.09	1599HBKBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM864-ND	15.66	13.05	12.05	1599KBKBAT
Grey	5.1 (130)	2.6 (66)	1.0 (25)	HM352-ND	8.96	7.47	6.89	1599BGYBAT
	6.7 (170)	3.4 (86)	1.3 (33)	HM354-ND	10.66	8.88	8.20	1599EGYBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM871-ND	14.42	12.02	11.09	1599HGYBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM872-ND	15.66	13.05	12.05	1599KGYBAT
Fig. 4 - 1599 Styrene Plastic Case with Battery Box								
Grey	5.1 (130)	2.6 (66)	1.0 (25)	HM349-ND	6.84	5.70	5.26	1599BSGYBAT
	6.7 (170)	3.4 (86)	1.3 (34)	HM350-ND	7.92	6.60	6.09	1599ESGYBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM875-ND	11.94	9.95	9.18	1599HSGYBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM874-ND	12.88	10.73	9.91	1599KSGYBAT
Fig. 5 - 1593 ABS Plastic Hand Held Boxes								
Black	2.6 (66)	2.6 (66)	1.1 (28)	HM355-ND	2.16	1.80	1.66	1593KBK
	2.6 (66)	2.6 (66)	1.1 (28)	HM860-ND	2.16	1.80	1.66	1593JBK
	3.6 (92)	2.6 (66)	1.1 (28)	HM357-ND	3.10	2.59	2.39	1593PBK
	3.6 (92)	2.6 (66)	0.8 (20)	HM371-ND	2.88	2.40	2.22	1593SBK
	4.4 (112)	2.6 (66)	1.1 (28)	HM359-ND	3.48	2.90	2.68	1593QBK
	4.4 (112)	2.6 (66)	0.8 (20)	HM372-ND	3.28	2.73	2.52	1593TBK
	4.5 (114)	1.4 (36)	1.0 (25)	HM861-ND	3.32	2.77	2.55	1593DBK
	5.5 (140)	2.6 (66)	1.1 (28)	HM862-ND	4.02	3.35	3.09	1593YBK
Grey	2.6 (66)	2.6 (66)	1.1 (28)	HM356-ND	2.16	1.80	1.66	1593KGY
	2.6 (66)	2.6 (66)	1.1 (28)	HM867-ND	2.16	1.80	1.66	1593JGY
	3.6 (92)	2.6 (66)	1.1 (28)	HM358-ND	3.10	2.59	2.39	1593PGY
	3.6 (92)	2.6 (66)	0.8 (20)	HM373-ND	2.88	2.40	2.22	1593SGY
	4.4 (112)	2.6 (66)	1.1 (28)	HM360-ND	3.48	2.90	2.68	1593QGY
	4.4 (112)	2.6 (66)	0.8 (20)	HM374-ND	3.28	2.73	2.52	1593TGY
	4.5 (114)	1.4 (36)	1.0 (25)	HM868-ND	3.32	2.77	2.55	1593DGY
	5.5 (140)	2.6 (66)	1.1 (28)	HM870-ND	4.02	3.35	3.09	1593XGY
	5.5 (140)	2.6 (66)	1.1 (28)	HM869-ND	4.02	3.35	3.09	1593YGY
Infrared Replacement Panels for 1593 Series								
Replacement Panel for 1593D Series				HM887-ND	.40	.34	.31	1593DIR10
Replacement Panel for 1593J, K, P, Q, Y, X Series				HM888-ND	.46	.39	.36	1593PIR10
Replacement Panel for 1593S, T Series				HM889-ND	.28	.24	.22	1593SIR10
Fig. 6 - 1551 ABS Plastic General Purpose Boxes								
Black	2.0 (50)	1.4 (35)	0.7 (18)	HM375-ND	1.04	.87	.80	1551GBK
	2.4 (60)	1.4 (35)	0.7 (18)	HM376-ND	1.18	.98	.91	1551HBK
	3.2 (80)	1.6 (40)	0.7 (18)	HM377-ND	1.24	1.03	.95	1551KBK
Lt. Grey	2.0 (50)	1.4 (35)	0.7 (18)	HM378-ND	1.04	.87	.80	1551GGY
	2.4 (60)	1.4 (35)	0.7 (18)	HM379-ND	1.18	.98	.91	1551HGY
	3.2 (80)	1.6 (40)	0.7 (18)	HM380-ND	1.24	1.03	.95	1551KGY
Fig. 7 - 1594 Styrene Plastic Instrument Boxes								
Lt. Grey	2.2 (56)	2.2 (56)	1.1 (28)	HM221-ND	3.72	3.10	2.86	1594ASGY
	3.2 (81)	2.2 (56)	1.1 (28)	HM222-ND	3.92	3.27	3.02	1594BSGY
	4.1 (105)	2.6 (66)	1.3 (33)	HM223-ND	4.28	3.57	3.29	1594CSGY
	5.2 (131)	2.6 (66)	1.7 (43)	HM224-ND	4.58	3.82	3.52	1594DSGY
	6.6 (167)	4.2 (107)	2.1 (53)	HM225-ND	5.96	4.97	4.58	1594ESGY
Fig. 7 - 1594 ABS Plastic Instrument Boxes								
Black	2.2 (56)	2.2 (56)	1.1 (28)	HM226-ND	6.48	5.40	4.98	1594ABK
	3.2 (81)	2.2 (56)	1.1 (28)	HM227-ND	6.78	5.65	5.22	1594BBK
	4.1 (105)	2.6 (66)	1.3 (33)	HM228-ND	8.34	6.98	6.42	1594CBK
	5.2 (131)	2.6 (66)	1.7 (43)	HM229-ND	9.92	8.27	7.63	1594DBK
Lt. Grey	2.2 (56)	2.2 (56)	1.1 (28)	HM231-ND	6.48	5.40	4.98	1594AGY
	3.2 (81)	2.2 (56)	1.1 (28)	HM232-ND	6.78	5.65	5.22	1594BGY
	4.1 (105)	2.6 (66)	1.3 (33)	HM233-ND	8.34	6.95	6.42	1594CGY
	5.2 (131)	2.6 (66)	1.7 (43)	HM234-ND	9.92	8.27	7.63	1594DGY
	6.6 (167)	4.2 (107)	2.1 (53)	HM230-ND	12.22	10.18	9.40	1594EBK
	6.6 (167)	4.2 (107)	2.1 (53)	HM235-ND	12.22	10.18	9.40	1594EGY

⋆ With mounting shelf ‡ With lid ground screw † Dimension "C" does not include lid height *(Continued)*

Plastic and Aluminum Enclosures *(Cont.)*

Fig. 9 – Aluminum Utility Cases - 1411 Series

.040" (1.02mm) thick aluminum. Four self-tapping screws included. Choice of unpainted or ASA 61 grey baked enamel finish (outside only).

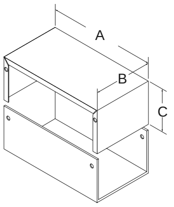
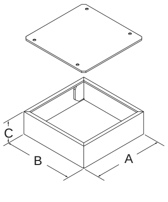


Fig. 10 – Heavy Duty Chassis Case and Cover Plates - 1444 Series

Cover No.	Use with Digi-Key #	Use with Hammond #
HM275-ND	HM257-ND	1444-6
HM276-ND	HM258-ND	1444-8
HM277-ND	HM259-ND	1444-9
	HM260-ND	1444-10
HM278-ND	HM261-ND	1444-12
HM279-ND	HM262-ND	1444-14
HM280-ND	HM263-ND	1444-15
	HM264-ND	1444-16
HM281-ND	HM265-ND	1444-18

Cover No.	Use with Digi-Key #	Use with Hammond #
HM282-ND	HM266-ND	1444-20
HM283-ND	HM267-ND	1444-22
	HM268-ND	1444-24
HM284-ND	HM269-ND	1444-26
	HM270-ND	1444-28
HM285-ND	HM271-ND	1444-29
HM286-ND	HM272-ND	1444-30
	HM273-ND	1444-32
	HM274-ND	1444-33



Cover sold separately.

Spot welded heavy duty construction chassis. Cover holes are punched with 4 holes (hardware not provided). Unpainted finish.

Fig. 11 – Metal Utility Cases - 1415 Series

Sizes A to E are 20 gauge 0.036" (.91mm) thick steel. Sizes F to J are 18 gauge 0.048" (1.22mm) thick steel. Self-tapping screws included. ASA 61 grey baked enamel finish (outside only). Models A to D have 4 mounting holes. Models E to J have 6 mounting holes

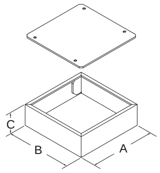


Fig. 12 – Ventilated Low Profile Instrument Cases -1426 Series

20 gauge steel enclosure finished in satin off-white. 0.064" (1.63mm) thick aluminum panels front and rear. Front panel is satin black, rear panel matches case color.

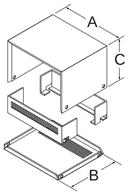


Fig. 13 – Low Profile Instrument Cases - 1458 Series

20 gauge steel case with black satin finish. 0.064" (1.63mm) thick aluminum panels (one satin black and one satin white for each case). Symmetrical design so either end can be front. 6-32 Phillips nickel plated screws and self-adhesive rubber feet included.

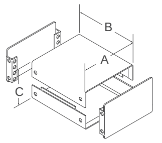
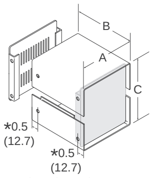


Fig. 14 – Ventilated High Profile Instrument Cases - 1401 Series

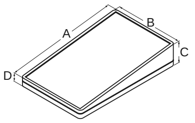
20 gauge steel case finished in satin off-white. 0.064" (1.63mm) thick aluminum panels, front finished in satin black; vented back finished in satin off-white. Rear panel is vented top and bottom 6-32 Phillips nickel plated screws and self-adhesive rubber feet included.



*Both end panels are recessed

Fig. 15 – Plastic Sloping Consoles - 1599 "T" Series

Available in High Impact Polystyrene (light grey) which is non-Flame Retardant and Flame Retardant ABS (light grey or black) which meets UL94V-O flammability tests. Flame Retardant ABS plastic versions include integral threaded brass inserts and machine screws providing extra strength for repeated assembly and disassembly of lid.

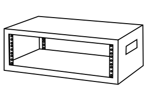


Dimensions - Inch (mm)	
Part No.	**D**
1599ETSBK	.72 (18)
1599HTSBK	.75 (19)
1599KTSBK	.67 (17)
1599KTLBK	.71 (18)
1599KTLBKBAT	.71 (18)

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 8 - 1595 ABS Plastic Instrument Consoles								
Lt. Grey	6.3 (160)	3.8 (97)	2.3 (58)	HM241-ND	10.36	8.63	7.73	1595CGY
	8.5 (216)	5.1 (130)	3.0 (76)	HM242-ND	12.82	10.68	9.57	1595EGY
Black	6.3 (160)	3.8 (97)	2.3 (58)	HM243-ND	10.36	8.63	7.73	1595CBK
	8.5 (216)	5.1 (130)	3.0 (76)	HM244-ND	12.82	10.68	9.57	1595EBK
Fig. 9 - 1411 Aluminum Utility Cases								
Lt. Grey	2.7 (69)	2.2 (56)	1.6 (41)	HM315-ND	5.00	4.16	3.84	1411B
	3.2 (81)	2.2 (56)	1.1 (28)	HM316-ND	5.07	4.23	3.90	1411C
	3.2 (81)	2.2 (56)	1.6 (41)	HM317-ND	5.10	4.25	3.92	1411D
	4.0 (102)	2.2 (56)	3.0 (76)	HM318-ND	5.60	4.66	4.30	1411F
	4.0 (102)	2.2 (56)	1.6 (41)	HM319-ND	5.30	4.41	4.07	1411G
	4.0 (102)	2.2 (56)	2.2 (56)	HM320-ND	5.39	4.49	4.14	1411H
	5.0 (127)	2.2 (56)	2.2 (56)	HM321-ND	6.18	5.15	4.75	1411K
	5.0 (127)	4.0 (102)	3.0 (76)	HM322-ND	8.04	6.70	6.18	1411L
	5.0 (127)	3.0 (76)	2.2 (56)	HM324-ND	6.57	5.48	5.05	1411N
	6.0 (152)	3.0 (76)	3.0 (76)	HM323-ND	9.00	7.50	6.92	1411M
	6.0 (152)	5.0 (127)	4.0 (102)	HM325-ND	11.27	9.39	8.67	1411P
	7.0 (178)	5.0 (127)	3.0 (76)	HM326-ND	10.98	9.15	8.45	1411Q
	8.0 (203)	6.0 (152)	3.5 (89)	HM327-ND	18.00	15.00	13.85	1411R
	8.0 (203)	4.0 (102)	3.0 (76)	HM328-ND	16.50	13.75	12.69	1411S
	10.0 (254)	2.2 (56)	1.6 (41)	HM329-ND	18.08	15.06	13.90	1411T
	10.0 (254)	6.0 (152)	3.5 (89)	HM330-ND	21.92	18.26	16.86	1411U
	12.0 (305)	3.0 (76)	2.2 (56)	HM331-ND	21.00	17.50	16.16	1411W
	12.0 (305)	7.0 (178)	4.0 (102)	HM332-ND	26.25	21.88	20.19	1411X
	17.0 (432)	5.0 (127)	4.0 (102)	HM333-ND	28.50	23.75	21.93	1411Z
Un-painted	2.7 (69)	2.2 (56)	1.6 (41)	HM605-ND	3.24	2.70	2.49	1411BU
	3.2 (81)	2.2 (56)	1.1 (28)	HM606-ND	3.45	2.88	2.65	1411CU
	3.2 (81)	2.2 (56)	1.6 (41)	HM607-ND	3.72	3.10	2.86	1411DU
	4.0 (102)	2.2 (56)	3.0 (76)	HM608-ND	4.17	3.48	3.21	1411FU
	4.0 (102)	2.2 (56)	1.6 (41)	HM609-ND	4.02	3.35	3.09	1411GU
	4.0 (102)	2.2 (56)	2.2 (56)	HM610-ND	4.32	3.60	3.32	1411HU
	5.0 (127)	2.2 (56)	2.2 (56)	HM611-ND	5.36	4.46	4.12	1411KU
	5.0 (127)	4.0 (102)	3.0 (76)	HM612-ND	6.66	5.55	5.12	1411LU
	5.0 (127)	3.0 (76)	2.2 (56)	HM614-ND	5.30	4.41	4.07	1411NU
	6.0 (152)	3.0 (76)	3.0 (76)	HM613-ND	7.50	6.25	5.77	1411MU
	6.0 (152)	5.0 (127)	4 .0 (102)	HM615-ND	9.51	7.92	7.32	1411PU
	7.0 (178)	5.0 (127)	3.0 (76)	HM616-ND	6.39	5.33	4.92	1411QU
	8.0 (203)	6.0 (152)	3.5 (89)	HM617-ND	13.43	11.19	10.33	1411RU
	8.0 (203)	4.0 (102)	3.0 (76)	HM618-ND	12.00	10.00	9.23	1411SU
	10.0 (254)	2.2 (56)	1.6 (41)	HM619-ND	13.50	11.25	10.38	1411TU
	10.0 (254)	6.0 (152)	3.5 (89)	HM620-ND	16.86	14.05	12.97	1411UU
	12.0 (305)	3.0 (76)	2.2 (56)	HM621-ND	16.50	13.75	12.69	1411WU
	12.0 (305)	7.0 (178)	4.0 (102)	HM622-ND	21.36	17.80	16.43	1411XU
	17.0 (432)	5.0 (127)	4.0 (102)	HM623-ND	24.00	20.00	18.46	1411ZU
Fig. 10 - 1444 Heavy Duty Chassis Cases								
Un-painted	4.0 (102)	4.0 (102)	2.0 (51)	HM257-ND	7.91	6.69	6.21	1444-6
	6.0 (152)	4.0 (102)	2.0 (51)	HM258-ND	8.11	6.87	6.38	1444-8
	7.0 (178)	5.0 (127)	2.0 (51)	HM261-ND	8.86	7.50	6.96	1444-12
	8.0 (203)	4.0 (102)	1.0 (25)	HM259-ND	8.45	7.15	6.64	1444-9
	8.0 (203)	4.0 (102)	2.0 (51)	HM260-ND	8.66	7.33	6.80	1444-10
	9.0 (229)	5.0 (127)	2.0 (51)	HM262-ND	10.69	9.05	8.40	1444-14
	10.0 (254)	6.0 (152)	1.0 (25)	HM263-ND	9.33	7.89	7.33	1444-15
	10.0 (254)	6.0 (152)	2.0 (51)	HM264-ND	11.59	9.81	9.11	1444-16
	12.0 (305)	8.0 (203)	2.0 (51)	HM267-ND	20.22	17.11	15.89	1444-22
	12.0 (305)	8.0 (203)	3.0 (76)	HM268-ND	20.45	17.31	16.07	1444-24
	12.0 (305)	10.0 (254)	2.0 (51)	HM271-ND	20.35	17.22	15.99	1444-29
	13.5 (343)	5.0 (127)	2.0 (51)	HM265-ND	12.27	10.38	9.64	1444-18
	16.0 (406)	8.0 (203)	2.0 (51)	HM269-ND	20.39	17.25	16.02	1444-26
	16.0 (406)	8.0 (203)	3.0 (76)	HM270-ND	24.27	20.54	19.07	1444-28
	17.0 (432)	4.0 (102)	3.0 (76)	HM266-ND	20.32	17.19	15.96	1444-20
	17.0 (432)	10.0 (254)	2.0 (51)	HM272-ND	23.59	19.96	18.54	1444-30
	17.0 (432)	10.0 (254)	3.0 (76)	HM273-ND	27.61	23.37	21.70	1444-32
	17.0 (432)	10.0 (254)	4.0 (102)	HM274-ND	39.82	33.69	31.30	1444-33

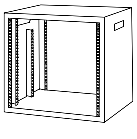
Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 10 - Cover Plates (See Fig. 10 Diagram)								
Un-painted	4.0 (102)	4.0 (102)	Panel Thickness	HM275-ND	3.82	3.23	3.00	1434-6
	6.0 (152)	4.0 (102)		HM276-ND	4.09	3.46	3.21	1434-8
	7.0 (178)	5.0 (127)		HM278-ND	4.01	3.39	3.15	1434-12
	8.0 (203)	4.0 (102)		HM277-ND	3.89	3.29	3.05	1434-10
	9.0 (229)	5.0 (127)		HM279-ND	4.09	3.46	3.21	1434-14
	10.0 (254)	6.0 (152)		HM280-ND	6.14	5.19	4.82	1434-16
	12.0 (305)	8.0 (203)		HM283-ND	8.66	7.33	6.80	1434-22
	12.0 (305)	10.0 (254)		HM285-ND	8.66	7.33	6.80	1434-29
	13.5 (343)	5.0 (127)		HM281-ND	6.55	5.54	5.14	1434-18
	16.0 (406)	8.0 (203)		HM284-ND	8.66	7.33	6.80	1434-26
	17.0 (432)	4.0 (102)		HM282-ND	6.61	5.60	5.20	1434-20
	17.0 (432)	10.0 (254)		HM286-ND	9.18	7.77	7.21	1434-30
Fig. 11 - 1415 Metal Utility Cases								
Grey	4.0 (102)	2.0 (51)	4.0 (102)	HM305-ND	10.87	9.20	8.54	1415A
	4.0 (102)	3.0 (76)	5.0 (127)	HM306-ND	11.05	9.35	8.68	1415B
	6.0 (152)	4.0 (102)	5.0 (127)	HM307-ND	14.05	11.88	11.04	1415C
	6.0 (152)	6.0 (152)	6.0 (152)	HM308-ND	21.55	18.23	16.93	1415D
	9.0 (229)	5.0 (127)	6.0 (152)	HM309-ND	23.33	19.74	18.33	1415E
	10.0 (254)	7.0 (178)	8.0 (203)	HM310-ND	35.29	29.86	27.74	1415F
	10.0 (254)	8.0 (203)	10.0 (254)	HM312-ND	45.44	38.45	35.70	1415H
	12.0 (305)	6.0 (152)	7.0 (178)	HM311-ND	35.10	29.70	27.59	1415G
	12.0 (305)	8.0 (203)	11.0 (279)	HM313-ND	51.22	43.34	40.24	1415I
	15.0 (383)	7.0 (179)	9.0 (230)	HM314-ND	50.15	42.44	39.42	1415J
Fig. 12 - 1426 Ventilated Low Profile Cases								
Off-White	6.0 (152)	5.0 (127)	4.0 (102)	HM297-ND	34.36	29.08	27.00	1426K
	8.0 (203)	6.0 (152)	4.0 (102)	HM298-ND	35.80	30.29	28.13	1426M
	10.0 (254)	7.0 (178)	4.0 (102)	HM299-ND	40.09	33.92	31.50	1426O
	11.0 (279)	11.7 (297)	5.5 (140)	HM300-ND	40.09	33.92	31.50	1426Q
	12.0 (305)	6.0 (152)	4.0 (102)	HM301-ND	42.95	36.35	33.75	1426S
	12.0 (305)	8.0 (203)	4.0 (102)	HM302-ND	42.95	36.35	33.75	1426V
	12.0 (305)	10.0 (254)	4.0 (102)	HM303-ND	45.82	38.77	36.00	1426W
	12.0 (305)	6.0 (152)	5.5 (140)	HM304-ND	42.95	36.35	33.75	1426Y
Fig. 13 - 1458 Low Profile Instrument Cases								
Black	4.0 (102)	4.0 (102)	3.0 (76)	HM334-ND	28.64	24.23	22.50	1458A3
	6.0 (152)	4.0 (102)	4.0 (102)	HM335-ND	31.75	26.86	24.95	1458B4
	6.0 (152)	6.0 (152)	3.0 (76)	HM336-ND	28.64	24.23	22.50	1458C3
	6.0 (152)	6.0 (152)	4.0 (102)	HM337-ND	29.59	25.04	23.25	1458C4
	8.0 (203)	8.0 (203)	3.0 (76)	HM338-ND	34.61	29.28	27.20	1458D3
	8.0 (203)	8.0 (203)	4.0 (102)	HM339-ND	36.52	30.90	28.70	1458D4
	8.0 (203)	8.0 (203)	5.0 (127)	HM340-ND	39.38	33.33	30.95	1458D5
	8.0 (203)	10.0 (254)	3.0 (76)	HM341-ND	37.47	31.71	29.44	1458E3
	8.0 (203)	10.0 (254)	4.0 (102)	HM342-ND	39.61	33.52	31.14	1458E4
	8.0 (203)	10.0 (254)	5.0 (127)	HM343-ND	41.77	35.34	32.82	1458E5
	10.0 (254)	8.0 (203)	3.0 (76)	HM344-ND	39.61	33.52	31.14	1458G3
	10.0 (254)	8.0 (203)	4.0 (102)	HM345-ND	42.95	36.35	33.75	1458G4
	10.0 (254)	8.0 (203)	5.0 (127)	HM346-ND	40.57	34.33	31.89	1458G5
Fig. 14 - 1401 Ventilated High Profile Cases								
Off-White	4.0 (102)	6.0 (152)	4.0 (102)	HM287-ND	39.09	33.08	30.71	1401AAA
	6.0 (152)	6.0 (152)	5.0 (127)	HM288-ND	42.10	35.62	33.08	1401AA
	6.0 (152)	10.0 (254)	5.0 (127)	HM289-ND	45.11	38.17	35.45	1401A
	8.0 (203)	10.0 (254)	9.0 (229)	HM290-ND	52.62	44.53	41.36	1401C
	8.0 (203)	8.0 (203)	8.0 (203)	HM291-ND	49.62	41.99	38.99	1401E
	10.0 (254)	12.0 (305)	9.0 (229)	HM292-ND	66.15	55.97	51.99	1401G
	10.0 (254)	14.0 (356)	6.5 (165)	HM293-ND	67.65	57.24	53.15	1401K
	12.0 (305)	8.0 (203)	9.0 (229)	HM294-ND	70.66	59.79	55.52	1401M
	14.0 (356)	8.0 (203)	9.0 (229)	HM295-ND	72.16	61.06	56.70	1401N
	14.0 (356)	10.0 (254)	5.0 (127)	HM296-ND	64.65	54.70	50.80	1401P
Fig. 15 - 1599 "T" Series Flame Retardant Styrene ABS Plastic Short Slope Console								
Black	3.4 (86)	6.7 (170)	1.3 (33)	HM882-ND	12.36	10.30	9.51	1599ETSBK
	4.3 (109)	8.7 (221)	1.8 (46))	HM883-ND	16.06	13.38	12.35	1599HTSBK
	5.5 (140)	8.7 (221)	1.6 (41)	HM884-ND	14.84	12.37	11.42	1599KTSBK
Fig. 15 - 1599 "T" Series Flame Retardant ABS Plastic Long Slope Console								
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM885-ND	14.84	12.37	11.42	1599KTLBK
Fig. 15 - 1599 "T" Series Flame Retardant ABS Plastic Long Slope Console w/Battery Box								
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM886-ND	18.54	15.45	14.26	1599KTLBKBAT

Fig. 1



Desk Top Rack (Light-Duty)- RCBS Series - 18-gauge steel economy 19" table top rack. Rails are fixed at both front and rear. Includes rubber feet, 2 lifting handles and 10-32 clip nuts. Overall width 20", overall height 1" over panel space. Finish textured; black or gray/beige (Ral7032) powder paint.

Fig. 2



Desk Top Rack (Heavy-Duty) - RCHS Series- 18 gauge steel 19" table top rack. Rails are fixed at both front and rear. Includes 2 pair of fixed accessory rails (for rear support of heavier equipment), rubber feet, 2 lifting handles and 10-32 clip nuts. Overall height: 2" larger than panel height. Finish textured; black, gray/beige (RAL7032) or gulf blue powder paint.

Fig. 3

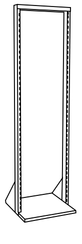
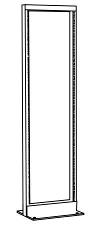


Fig. 4



Open Relay Rack DNRR Series- welded 19" racks (20" wide overall) are available in both light (12-gauge steel) and heavy duty (10-gauge steel) versions. No assembly required. Front flange is drilled and tapped (10-32) EIA .5-1.25" spacing. For use as a single, free standing unit for sturdy support of standard 19" rack mount devices. Finished in textured black powder paint.

Fig. 5

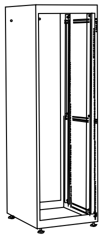


Fig. 6

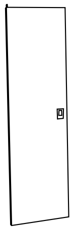
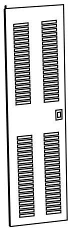


Fig. 7



Knockdown Racks REFK Series - offer a standard 19" panel width (22" overall), 24" usable depth (24.5" overall). Unit is shipped complete with 4 infinitely adjustable (front to back) combination rack mount rails, drilled and tapped 10-32 (full EIA spacing) and 4 leveling feet. Shipped in a flat pack container for damage-free receipt. Simple assembly using one bolt in each corner to lock the sides to the top and bottom Heavy duty 16-gauge steel tip, bottom and sides. Rails are made of 10-gauge steel finished in black powder paint. Rack is finished in a textured black or gray/beige (RAL7032) powder paint. Order doors separately below.

Color	Dimensions–Inch (mm) Panel H	Panel W	Panel D	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 1 - RCBS Desk Top Racks (Light Duty)								
Black	3.50 (89)	19.00 (483)	13.00 (330)	HM624-ND	88.12	81.34	70.49	RCBS1900313BK1
	5.25 (133)	19.00 (483)	13.00 (330)	HM625-ND	94.82	87.52	75.85	RCBS1900513BK1
	7.00 (178)	19.00 (483)	13.00 (330)	HM626-ND	102.53	94.65	82.03	RCBS1900713BK1
	8.75 (222)	19.00 (483)	13.00 (330)	HM627-ND	116.17	107.23	92.93	RCBS1900813BK1
	10.50 (267)	19.00 (483)	13.00 (330)	HM628-ND	121.52	112.17	97.21	RCBS1901013BK1
	12.25 (311)	19.00 (483)	13.00 (330)	HM629-ND	132.18	122.02	105.75	RCBS1901213BK1
	14.00 (356)	19.00 (483)	13.00 (330)	HM630-ND	165.57	152.83	132.45	RCBS1901413BK1
	5.25 (133)	19.00 (483)	17.50 (445)	HM631-ND	113.50	104.77	90.80	RCBS1900517BK1
	7.00 (178)	19.00 (483)	17.50 (445)	HM632-ND	132.18	122.02	105.75	RCBS1900717BK1
	8.75 (222)	19.00 (483)	17.50 (445)	HM633-ND	157.55	145.43	126.04	RCBS1900817BK1
	10.50 (267)	19.00 (483)	17.50 (445)	HM634-ND	166.90	154.06	133.52	RCBS1901017BK1
	12.25 (311)	19.00 (483)	17.50 (445)	HM635-ND	182.93	168.86	146.35	RCBS1901217BK1
	14.00 (356)	19.00 (483)	17.50 (445)	HM636-ND	186.92	172.54	149.53	RCBS1901417BK1
Gray	3.50 (89)	19.00 (483)	13.00 (330)	HM637-ND	88.12	81.34	70.49	RCBS1900313CG1
	5.25 (133)	19.00 (483)	13.00 (330)	HM638-ND	94.82	87.52	75.85	RCBS1900513CG1
	7.00 (178)	19.00 (483)	13.00 (330)	HM639-ND	102.53	94.65	82.03	RCBS1900713CG1
	8.75 (222)	19.00 (483)	13.00 (330)	HM640-ND	116.17	107.23	92.93	RCBS1900813CG1
	10.50 (267)	19.00 (483)	13.00 (330)	HM641-ND	121.52	112.17	97.21	RCBS1901013CG1
	12.25 (311)	19.00 (483)	13.00 (330)	HM642-ND	132.18	122.02	105.75	RCBS1901213CG1
	14.00 (356)	19.00 (483)	13.00 (330)	HM643-ND	165.57	152.83	132.45	RCBS1901413CG1
	5.25 (133)	19.00 (483)	17.50 (445)	HM644-ND	113.50	104.77	90.80	RCBS1900517CG1
	7.00 (178)	19.00 (483)	17.50 (445)	HM645-ND	132.18	122.02	105.75	RCBS1900717CG1
	8.75 (222)	19.00 (483)	17.50 (445)	HM646-ND	157.55	145.43	126.04	RCBS1900817CG1
	10.50 (267)	19.00 (483)	17.50 (445)	HM647-ND	166.90	154.06	133.52	RCBS1901017CG1
	12.25 (311)	19.00 (483)	17.50 (445)	HM648-ND	182.93	168.86	146.35	RCBS1901217CG1
	14.00 (356)	19.00 (483)	17.50 (445)	HM649-ND	186.92	172.54	149.53	RCBS1901417CG1
Fig. 2 - RCHS Desk Top (Heavy Duty)								
Black	8.75 (222)	19.00 (483)	17.50 (445)	HM650-ND	170.83	157.69	136.67	RCHS1900817BK1
	10.50 (267)	19.00 (483)	17.50 (445)	HM651-ND	197.57	182.37	158.05	RCHS1901017BK1
	14.00 (356)	19.00 (483)	17.50 (445)	HM652-ND	202.27	186.71	161.81	RCHS1901417BK1
	17.50 (445)	19.00 (483)	17.50 (445)	HM653-ND	210.03	193.88	168.03	RCHS1901717BK1
	22.75 (578)	19.00 (483)	17.50 (445)	HM654-ND	228.70	211.11	182.96	RCHS1902217BK1
	28.00 (711)	19.00 (483)	17.50 (445)	HM655-ND	268.82	248.14	215.05	RCHS1902817BK1
	10.50 (267)	19.00 (483)	24.50 (622)	HM656-ND	266.03	245.57	212.83	RCHS1901024BK1
	14.00 (356)	19.00 (483)	24.50 (622)	HM657-ND	280.02	258.48	224.01	RCHS1901424BK1
	17.50 (445)	19.00 (483)	24.50 (622)	HM658-ND	289.37	267.11	231.49	RCHS1901724BK1
	22.75 (578)	19.00 (483)	24.50 (622)	HM659-ND	298.70	275.72	238.96	RCHS1902224BK1
	28.00 (711)	19.00 (483)	24.50 (622)	HM660-ND	311.12	287.18	248.89	RCHS1902824BK1
Gray	8.75 (222)	19.00 (483)	17.50 (445)	HM661-ND	170.83	157.69	136.67	RCHS1900817CG1
	10.50 (267)	19.00 (483)	17.50 (445)	HM662-ND	197.57	182.37	158.05	RCHS1901017CG1
	14.00 (356)	19.00 (483)	17.50 (445)	HM663-ND	202.27	186.71	161.81	RCHS1901417CG1
	17.50 (445)	19.00 (483)	17.50 (445)	HM664-ND	210.03	193.88	168.03	RCHS1901717CG1
	22.75 (578)	19.00 (483)	17.50 (445)	HM665-ND	228.70	211.11	182.96	RCHS1902217CG1
	28.00 (711)	19.00 (483)	17.50 (445)	HM666-ND	268.82	248.14	215.05	RCHS1902817CG1
	10.50 (267)	19.00 (483)	24.50 (622)	HM667-ND	266.03	245.57	212.83	RCHS1901024CG1
	14.00 (356)	19.00 (483)	24.50 (622)	HM668-ND	280.02	258.48	224.01	RCHS1901424CG1
	17.50 (445)	19.00 (483)	24.00 (622)	HM669-ND	289.37	267.11	231.49	RCHS1901724CG1
	22.75 (578)	19.00 (483)	24.50 (622)	HM670-ND	298.70	275.72	238.96	RCHS1902224CG1
	28.00 (711)	19.00 (483)	24.50 (622)	HM671-ND	311.12	287.18	248.89	RCHS1902824CG1
Blue	8.75 (222)	19.00 (483)	17.50 (445)	HM672-ND	170.83	157.69	136.67	RCHS1900817GF1
	10.50 (267)	19.00 (483)	17.50 (445)	HM673-ND	197.57	182.37	158.05	RCHS1901017GF1
	14.00 (356)	19.00 (483)	17.50 (445)	HM674-ND	202.27	186.71	161.81	RCHS1901417GF1
	17.50 (445)	19.00 (483)	17.50 (445)	HM675-ND	210.03	193.88	168.03	RCHS1901717GF1
	22.75 (578)	19.00 (483)	17.50 (445)	HM676-ND	228.70	211.11	182.96	RCHS1902217GF1
	28.00 (711)	19.00 (483)	17.50 (445)	HM677-ND	268.82	248.14	215.05	RCHS1902817GF1
	10.50 (267)	19.00 (483)	24.50 (622)	HM678-ND	266.03	245.57	212.83	RCHS1901024GF1
	14.00 (356)	19.00 (483)	24.50 (622)	HM679-ND	280.02	258.48	224.01	RCHS1901424GF1
	17.50 (445)	19.00 (483)	24.50 (622)	HM680-ND	289.37	267.11	231.49	RCHS1901724GF1
	22.75 (578)	19.00 (483)	24.50 (622)	HM681-ND	298.70	275.72	238.96	RCHS1902224GF1
	28.00 (711)	19.00 (483)	24.50 (622)	HM682-ND	311.12	287.18	248.89	RCHS1902824GF1

Dimensions–Inch (mm) Panel H	Panel W	Panel Units	Overall Height	Wt. (Lbs.)	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
*Fig. 3 - DNRR Open Welded (Light-Duty) Relay Rack**									
42 (1067)	19 (483)	24	48.13 (1223)	38	HM683-ND	169.60	156.55	135.68	DNRR42LDW
63 (1600)	19 (483)	36	69.13 (1756)	41	HM684-ND	188.65	174.14	150.92	DNRR63LDW
70 (1778)	19 (483)	40	76.13 (1934)	42	HM685-ND	191.15	176.45	152.92	DNRR70LDW
77 (1956)	19 (483)	44	83.13 (2112)	45	HM686-ND	199.55	184.20	159.64	DNRR77LDW
84 (2134)	19 (483)	48	90.13 (2289)	47	HM687-ND	203.58	187.92	162.87	DNRR84LDW
*Fig. 4 - DNRR Open Welded (Heavy-Duty) Relay Rack**									
42 (1067)	19 (483)	24	48.13 (1223)	65	HM688-ND	205.37	189.57	164.29	DNRR42HDW
63 (1600)	19 (483)	36	69.13 (1756)	77	HM689-ND	229.52	211.86	183.61	DNRR63HDW
70 (1778)	19 (483)	40	76.13 (1934)	80	HM690-ND	233.07	215.14	186.45	DNRR70HDW
77 (1956)	19 (483)	44	83.13 (2112)	82	HM691-ND	241.60	223.02	193.28	DNRR77HDW
84 (2134)	19 (483)	48	90.13 (2289)	87	HM692-ND	244.98	226.14	195.99	DNRR84HDW

* Due to weight and size, product will be drop shipped from Hammond direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.

Color	Dim.–In. (mm) Panel H	Panel Units	Overall Height	Wt. (Lbs.)	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
*Fig. 5 - REFK Knockdown Rack**									
Black	35 (889)	20	40.19 (1021)	103	HM693-ND	370.17	341.69	296.13	REFK1903524BK1
	42 (1067)	24	47.19 (1199)	111	HM694-ND	398.10	367.48	318.48	REFK1904224BK1
	49 (1245)	28	54.19 (1376)	126	HM696-ND	453.98	419.05	363.19	REFK1904924BK1
	56 (1422)	32	61.19 (1554)	136	HM697-ND	481.90	444.83	385.52	REFK1905624BK1
	63 (1600)	36	68.19 (1732)	145	HM698-ND	502.87	464.18	402.29	REFK1906324BK1
	70 (1778)	40	75.19 (1910)	160	HM699-ND	558.75	515.77	447.00	REFK1907024BK1
	77 (1956)	44	82.19 (2088)	185	HM700-ND	583.88	538.97	467.11	REFK1907724BK1
Lt. Gray	35 (889)	20	40.19 (1021)	103	HM701-ND	370.17	341.69	296.13	REFK1903524CG1
	42 (1067)	24	47.19 (1199)	111	HM702-ND	398.10	367.48	318.48	REFK1904224CG1
	49 (1245)	28	54.19 (1376)	126	HM703-ND	453.98	419.05	363.19	REFK1904924CG1
	56 (1422)	32	61.19 (1554)	136	HM704-ND	481.90	444.83	385.52	REFK1905624CG1
	63 (1600)	36	68.19 (1732)	145	HM705-ND	502.87	464.18	402.29	REFK1906324CG1
	70 (1778)	40	75.19 (1910)	160	HM706-ND	558.75	515.77	447.00	REFK1907024CG1
	77 (1956)	44	82.19 (2088)	185	HM707-ND	583.88	538.97	467.11	REFK1907724CG1

* Due to weight and size, product will be drop shipped from Hammond direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.

Color	Dim.–Inch (mm) Panel H	Panel Units	Wt. (Lbs.)	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
*Fig. 6 - RSDF Solid Door**								
Black	35 (889)	20	13	HM708-ND	97.78	90.26	78.23	RSDF19035BK1
	42 (1067)	24	18	HM709-ND	115.27	106.40	92.21	RSDF19042BK1
	49 (1245)	28	26	HM710-ND	127.80	117.97	102.24	RSDF19049BK1
	56 (1422)	32	30	HM711-ND	139.68	128.94	111.75	RSDF19056BK1
	63 (1600)	36	33	HM712-ND	148.08	136.69	118.47	RSDF19063BK1
	70 (1778)	40	37	HM713-ND	156.45	144.42	125.16	RSDF19070BK1
	77 (1956)	44	41	HM714-ND	169.03	156.03	135.23	RSDF19077BK1
Lt. Gray	35 (889)	20	13	HM715-ND	97.78	90.26	78.23	RSDF19035CG1
	42 (1067)	24	18	HM716-ND	115.27	106.40	92.21	RSDF19042CG1
	49 (1245)	28	26	HM717-ND	127.80	117.97	102.24	RSDF19049CG1
	56 (1422)	32	30	HM718-ND	139.68	128.94	111.75	RSDF19056CG1
	63 (1600)	36	33	HM719-ND	148.08	136.69	118.47	RSDF19063CG1
	70 (1778)	40	37	HM720-ND	156.45	144.42	125.16	RSDF19070CG1
	77 (1956)	44	41	HM721-ND	169.03	156.03	135.23	RDSF19077CG1
*Fig. 7 - RSDL Louvered Door**								
Black	35 (889)	20	13	HM722-ND	110.87	102.34	88.69	RSDL19035BK1
	42 (1067)	24	18	HM723-ND	126.68	116.94	101.35	RSDL19042BK1
	49 (1245)	28	26	HM724-ND	142.57	131.60	114.05	RSDL19049BK1
	56 (1422)	32	30	HM725-ND	156.13	144.12	124.91	RSDL19056BK1
	63 (1600)	36	33	HM726-ND	169.70	156.65	135.76	RSDL19063BK1
	70 (1778)	40	37	HM727-ND	181.02	167.09	144.81	RSDL19070BK1
	77 (1956)	44	41	HM728-ND	192.35	177.55	153.88	RSDL19077BK1
Lt. Gray	35 (889)	20	13	HM729-ND	110.87	102.34	88.69	RSDL19035CG1
	42 (1067)	24	18	HM730-ND	126.68	116.94	101.35	RSDL19042CG1
	49 (1245)	28	26	HM731-ND	142.57	131.60	114.05	RSDL19049CG1
	56 (1422)	32	30	HM732-ND	156.13	144.12	124.91	RSDL19056CG1
	63 (1600)	36	33	HM733-ND	169.70	156.65	135.76	RSDL19063CG1
	70 (1778)	40	37	HM734-ND	181.02	167.09	144.81	RSDL19070CG1
	77 (1956)	44	41	HM735-ND	192.35	177.55	153.88	RSDL19077CG1

* Due to weight and size, product will be drop shipped from Hammond direct to our customers. Contact Digi-Key Specialty Sales at 1-888-671-1741.

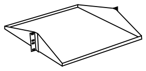
(Continued)

Racks and Accessories *(Cont.)*

Fig. 8

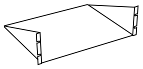
Rack Mount/Desk Top Enclosure RMCS & RMCV Series- mounts in standard 19" rack space or can be used table top. Aluminum panels can be removed from any of all 6 sides with only 4 screws. Shipped knocked down and includes all hardware, rack mount ears and rubber feet. Finished in textured black powder paint.

Fig. 9



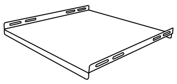
Dual Modem Shelf DNDMS Series- permits front and rear access to modems on 19" relay racks.Formed 16-gauge steel construction. Overall 19.5" deep. Finished in textured black powder paint finish.

Fig. 10



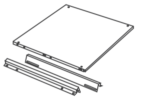
Rack Mount Shelf RASU & RASV Series- 14 gauge steel, 19" relay rack mount shelf available either solid or ventilated. Finished in textured black powder paint.

Fig. 11



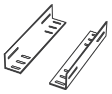
Rail Mount Shelf RFUS & RFVS Series - 14 gauge steel, 19" rack mount shelf available either solid or ventilated. Side slotted for easy front to back adjustment. Finished in textured black powder paint.

Fig. 12



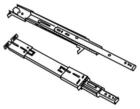
Fixed / Pull-Out Shelf RASC Series - 18 gauge steel with 14 gauge brackets. Mounts to internal rails. 19" relay rack mount shelf available either solid or ventilated. Brackets are side slotted for easy front to back adjustment. Shelf is finished in smooth white.

Fig. 13



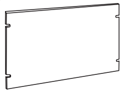
Rail Mount Support Angles RASA Series- 14 gauge steel, 1.75" x 1.75" to support heavy equipment and reduce load on front panel. Slots allow up/down or front back adjustment. Finished in textured black powder paint.

Fig. 14



Equipment slides RSLIDE Series - 19" rack panel mount (to front and back panel rails). Occupies only 1U(1.75") of panel height. Heavy duty, ball bearing mechanism. Also converts RASC slides to a pull out shelf. Sold in packages of 2.

Fig. 15



19" Aluminum Rack Panels PBPA - .125" thick, 19" rack mount panels. Finished in smooth black or gray/beige (RAL7032) powder paint and paper covered (one side) natural finish.

Type	Dimensions–Inch (mm) Panel H	Depth	Panel Units	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 8 - RMCS & RMCV Rack Mount/Desk Top								
Solid	1.75 (45)	8 (203)	1	HM736-ND	58.37	53.88	46.69	RMCS19018BK1
	1.75 (45)	13 (330)	1	HM737-ND	68.67	63.38	54.93	RMCS190113BK1
	3.50 (89)	8 (203)	2	HM738-ND	65.23	60.22	52.19	RMCS19038BK1
	3.50 (89)	13 (330)	2	HM739-ND	82.40	76.06	65.92	RMCS190313BK1
	5.25 (133)	13 (330)	3	HM740-ND	94.42	87.15	75.53	RMCS190513BK1
	7.00 (178)	13 (330)	4	HM741-ND	108.15	99.83	86.52	RMCS190713BK1
	8.75 (222)	13 (330)	5	HM742-ND	130.47	120.43	104.37	RMCS190813BK1
	10.50 (267)	13 (330)	6	HM743-ND	144.20	133.11	115.36	RMCS191013BK1
	10.50 (267)	15 (381)	6	HM744-ND	142.48	131.52	113.99	RMCS191015BK1
Vented	1.75 (45)	8 (203)	1	HM745-ND	64.20	59.26	51.36	RMCV19018BK1
	1.75 (45)	13 (330)	1	HM746-ND	75.53	69.72	60.43	RMCV190113BK1
	3.50 (89)	8 (203)	2	HM747-ND	71.75	66.23	57.40	RMCV19038BK1
	3.50 (89)	13 (330)	2	HM748-ND	90.63	83.66	72.51	RMCV190313BK1
	5.25 (133)	13 (330)	3	HM749-ND	103.87	95.88	83.09	RMCV190513BK1
	7.00 (178)	13 (330)	4	HM750-ND	118.97	109.82	95.17	RMCV190713BK1
	8.75 (222)	13 (330)	5	HM751-ND	143.52	132.48	114.81	RMCV190813BK1
	10.50 (267)	13 (330)	6	HM752-ND	158.62	146.42	126.89	RMCV191013BK1
	10.50 (267)	15 (381)	6	HM753-ND	156.73	144.68	125.39	RMCV19015BK1

Dimensions - Inch (mm) Depth	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 9 - DNDMS Dual Modem Shelf					
19.5 (495)	HM754-ND	56.40	52.06	45.12	DNDMS19BK1

Type	Dimensions–Inch (mm) Panel H	Shelf Depth	Panel Units	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 10 - RASU & RASV Panel Mount Shelf								
Solid	5.25 (133)	15 (381)	3	HM755-ND	60.60	55.94	48.48	RASU190515BK1
Vented	5.25 (133)	15 (381)	3	HM756-ND	68.43	63.17	54.75	RASV190515BK1

Type	Dimensions - Inch (mm) Panel W	Shelf Depth	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 11 - RFUS & RFVS Rail Shelf							
Solid	19 (483)	19 (483)	HM757-ND	35.83	33.08	28.67	RFUS1918BK1
	19 (483)	21 (533)	HM758-ND	37.98	35.06	30.39	RFUS1921BK1
	19 (483)	26 (660)	HM759-ND	40.68	37.55	32.55	RFUS1926BK1
Vented	19 (483)	19 (483)	HM760-ND	35.83	33.08	28.67	RFVS1918BK1
	19 (483)	21 (533)	HM761-ND	37.98	35.06	30.39	RFVS1921BK1
	19 (483)	26 (660)	HM762-ND	40.68	37.55	32.55	RFVS1926BK1

Dimensions - Inch (mm) Panel W	Shell Depth	Bracket Depth	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 12 - RASC Fixed/Pull Out Shelf							
19 (483)	11.9 (302)	13.2 (335)	HM763-ND	57.75	53.31	46.20	RASC1912WH2
19 (483)	15.9 (404)	14.9 (378)	HM764-ND	64.87	59.88	51.89	RASC1916WH2
19 (483)	21.9 (556)	20.9 (531)	HM765-ND	73.97	68.28	59.17	RASC1922WH2

Dimensions - Inch (mm) Depth	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 13 - RASA Rack Support Angles					
9.97 (253)	HM766-ND	21.70	20.03	17.36	RASA12BK3
14.95 (380)	HM767-ND	23.67	21.85	18.93	RASA16BK3
20.95 (532)	HM768-ND	26.70	24.65	21.36	RASA22BK3

Dimensions - Inch (mm) Side Length	Capacity (Pair)	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 14 - RSLIDE Chassis Slide						
12 (305)	120 lbs.	HM769-ND	54.33	50.15	43.47	RSLIDE12
16 (406)	130 lbs.	HM770-ND	56.63	52.28	45.31	RSLIDE16
22 (559)	120 lbs.	HM771-ND	60.07	55.45	48.05	RSLIDE22

Color	Dimensions - Inch (mm) Panel H	Panel Units	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 15 - PBPA Aluminum 19" Rack Panels							
Black	1.75 (45)	1	HM772-ND	8.67	8.00	6.93	PBPA19001BK2
	3.50 (89)	2	HM773-ND	12.77	11.78	10.21	PBPA19003BK2
	5.25 (133)	3	HM774-ND	18.22	16.82	14.57	PBPA19005BK2
	7.00 (178)	4	HM775-ND	22.77	21.02	18.21	PBPA19007BK2
	8.75 (222)	5	HM776-ND	26.95	24.88	21.56	PBPA19008BK2
	10.50 (267)	6	HM777-ND	30.37	28.03	24.29	PBPA19010BK2
	12.25 (311)	7	HM778-ND	36.42	33.62	29.13	PBPA19012BK2
	14.00 (356)	8	HM779-ND	40.98	37.83	32.79	PBPA19014BK2
	15.75 (400)	9	HM780-ND	44.03	40.65	35.23	PBPA19015BK2
	17.50 (445)	10	HM781-ND	50.13	46.28	40.11	PBPA19017BK2
	19.25 (489)	11	HM782-ND	58.08	53.62	46.47	PBPA19019BK2
	21.00 (533)	12	HM783-ND	62.25	57.46	49.80	PBPA19021BK2
	22.75 (578)	13	HM784-ND	66.05	60.97	52.84	PBPA19022BK2
	24.50 (622)	14	HM785-ND	72.13	66.58	57.71	PBPA19024BK2
	26.25 (667)	15	HM786-ND	77.45	71.49	61.96	PBPA19026BK2
	28.00 (711)	16	HM787-ND	82.75	76.38	66.20	PBPA19028BK2
	29.75 (756)	17	HM788-ND	86.55	79.89	69.24	PBPA19029BK2
	31.00 (787)	18	HM789-ND	88.85	82.02	71.08	PBPA19031BK2
Lt. Gray	1.75 (45)	1	HM790-ND	8.67	8.00	6.93	PBPA19001CG2
	3.50 (89)	2	HM791-ND	12.77	11.78	10.21	PBPA19003CG2
	5.25 (133)	3	HM792-ND	18.22	16.82	14.57	PBPA19005CG2
	7.00 (178)	4	HM793-ND	22.77	21.02	18.21	PBPA19007CG2
	8.75 (222)	5	HM794-ND	26.95	24.88	21.56	PBPA19008CG2
	10.50 (267)	6	HM795-ND	30.37	28.03	24.29	PBPA19010CG2
	12.25 (311)	7	HM796-ND	36.42	33.62	29.13	PBPA19012CG2
	14.00 (356)	8	HM797-ND	40.98	37.83	32.79	PBPA19014CG2
	15.75 (400)	9	HM798-ND	44.03	40.65	35.23	PBPA19015CG2
	17.50 (445)	10	HM799-ND	50.13	46.28	40.11	PBPA19017CG2
	19.25 (489)	11	HM800-ND	58.08	53.62	46.47	PBPA19019CG2
	21.00 (533)	12	HM801-ND	62.25	57.46	49.80	PBPA19021CG2
	22.75 (578)	13	HM802-ND	66.05	60.97	52.84	PBPA19022CG2
	24.50 (622)	14	HM803-ND	72.13	66.58	57.71	PBPA19024CG2
	26.25 (667)	15	HM804-ND	77.45	71.49	61.96	PBPA19026CG2
	28.00 (711)	16	HM805-ND	82.75	76.38	66.20	PBPA19028CG2
	29.75 (756)	17	HM806-ND	86.55	79.89	69.24	PBPA19029CG2
	31.50 (787)	18	HM807-ND	88.85	82.02	71.08	PBPA19031CG2
Unfin-ished	1.75 (45)	1	HM808-ND	8.67	8.00	6.93	PBPA19001UNF
	3.50 (89)	2	HM809-ND	12.77	11.78	10.21	PBPA19003UNF
	5.25 (133)	3	HM810-ND	18.22	16.82	14.57	PBPA19005UNF
	7.00 (178)	4	HM811-ND	22.77	21.02	18.21	PBPA19007UNF
	8.75 (222)	5	HM812-ND	26.95	24.88	21.56	PBPA19008UNF
	10.50 (267)	6	HM813-ND	30.37	28.03	24.29	PBPA19010UNF
	12.25 (311)	7	HM814-ND	36.42	33.62	29.13	PBPA19012UNF
	14.00 (356)	8	HM815-ND	40.98	37.83	32.79	PBPA19014UNF
	15.75 (400)	9	HM816-ND	44.03	40.65	35.23	PBPA19015UNF
	17.50 (445)	10	HM817-ND	50.13	46.28	40.11	PBPA19017UNF
	19.25 (489)	11	HM818-ND	58.08	53.62	46.47	PBPA19019UNF
	21.00 (533)	12	HM819-ND	62.25	57.46	49.80	PBPA19021UNF
	22.75 (578)	13	HM820-ND	66.05	60.97	52.84	PBPA19022UNF
	24.50 (622)	14	HM821-ND	72.13	66.58	57.71	PBPA19024UNF
	26.25 (667)	15	HM822-ND	77.45	71.49	61.96	PBPA19026UNF
	28.00 (711)	16	HM823-ND	82.75	76.38	66.20	PBPA19028UNF
	29.75 (756)	17	HM824-ND	86.55	79.89	69.24	PBPA19029UNF
	31.50 (787)	18	HM825-ND	88.85	82.02	71.08	PBPA19031UNF

Description	Qty. Per Pack	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
19" Rack Mount Hardware						
10-32 x 0.75" Phillips oval head screw/plastic washer	4	HM826-ND	2.47	2.28	1.97	1421A
Nickel plated 10-32 x 0.625" countersunk Phillips head	100	HM827-ND	14.28	13.18	11.43	1421A100B
Black plastic cup washer for countersunk 10-32 screws	100	HM828-ND	25.97	23.97	20.77	1421A100W
Nickel plated cup washer for countersunk 10-32 screws	100	HM829-ND	10.53	9.72	8.43	1421E100W
10-32 clip nuts for all panel rails	25	HM830-ND	11.32	10.45	9.05	1421N25

LMB HEEGER Aluminum Enclosures

Fig. 1 - Aluminum Boxes: • .040" (1.02mm) Plain aluminum • Screw fastening, punched and tapped

Fig. 2 - Snap Together Aluminum Boxes: • .040" (1.02mm) Plain aluminum • An ideal box for construction where screws cannot be used and where access to the box must be quick and often. the catches hold the box together tightly

Fig. 2 - Crown Royal Series Chassis: • Versatile and rugged construction • Constructed of .050" (1.27mm) aluminum, Type 3003-H14 • Plain aluminum • Screws included

Fig. 3 - Aluminum Consoles: • Plain aluminum • The length of the Flat Top of the MDC Series is 1/2 the total depth

Figs. 3 and 4 - Uni-Cab Universal Cabinet System: • Bases are .090 (2.29mm) aluminum. Covers are .063" (1.60mm) aluminum, Type 3003-H14 metal • Pem nuts used throughout for longer life and ease of assembly and disassembly • All parts are primed to protect the metal against the elements and to serve as a paint base. Bases are finished in textured blue, covers are finished in semi-gloss white • The base is approximately 1/4" (6.35mm) larger than the cover dimensions

Fig. 5 - Small Cabinets: • Finished in Grey • By removing four screws in bottom, cover slides off for easy access to interior of enclosure • A housing for small instruments, amplifiers, intercoms, public address systems, and for any small or medium sized item that is being prepared for the market and where price and appearance is a major factor

Fig. 6 - Die Cast Enclosures: Easily machined units useful as instrument and meter cases • Close-fitted flange lids fasten to bosses in the body with counter sunk screws • Aluminum alloy (380) offers excellent screening properties. • Lid adds .156" (3.96mm) to height of enclosure.

Fig. 7 - LMB Perforated Box Chassis: • LMB perforated boxes are adaptable wherever heat dissipation is required, as well as utmost shielding • Plain aluminum

Fig. 8 - UNI-PAC Universal Packaging System: A quality cabinet, engineered for versatility and value, at an affordable price. The Uni-Pac is constructed with .063" (1.60mm) aluminum, with .125" (3.18mm) aluminum sides and four adhesive rubber feet. The top, bottom, and sides are finished in textured blue, the front and rear panels are finished in semi-gloss white • Interchangeable front, back, top and bottom panels

Fig. 9 - Cap Cover Chassis: • Cap cover construction enables the builder to use either the top or the bottom of the chassis for construction • Chassis can also be mounted on its side and construction can be on both top and bottom at the same time • Built from Aircraft quality .040" (1.02mm) aluminum, Type 3003-H14 • Plain aluminum

Fig. 10 - Drawn Miniature Box: • Cold rolled steel, with mounting ears • Made of steel only • Covers are soldered-in when used in assembly • Not fabricated (holes punched in the box) • Plain steel

Fig. 1

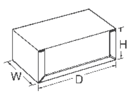
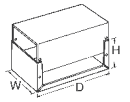


Fig. 2



Snap Together Box Shown

Fig. 3

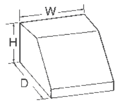


Fig. 4

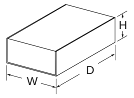


Fig. 5

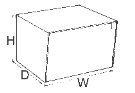


Fig. 6

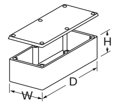


Fig. 7

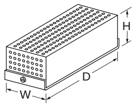


Fig. 8

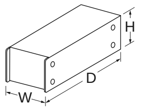


Fig. 9

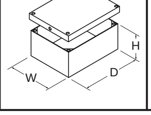
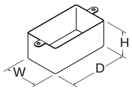


Fig. 10



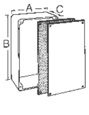
Dimensions – Inches (mm) D x W x H	Digi-Key Part No.	Pricing 1	10	100
Fig. 1 - Aluminum Boxes				
2.75 x 2.13 x 2.75 (69.85 x 53.98 x 69.85)	L100-ND	5.32	44.16	399.00
3.50 x 2.13 x 1.63 (88.90 x 53.98 x 41.28)	L101-ND	5.06	42.00	379.50
4.00 x 2.25 x 2.25 (101.60 x 57.15 x 57.15)	L102-ND	6.40	53.12	480.00
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L103-ND	6.88	57.10	516.00
5.00 x 4.00 x 3.00 (127.00 x 101.60 x 76.20)	L104-ND	9.60	79.68	720.00
6.00 x 5.00 x 4.00 (152.40 x 127.00 x 101.60)	L105-ND	13.42	111.39	1006.50
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L106-ND	13.58	112.71	1018.50
8.00 x 6.00 x 3.50 (203.20 x 152.40 x 88.90)	L107-ND	16.52	137.12	1239.00
10.00 x 6.00 x 3.50 (254.00 x 152.40 x 88.90)	L108-ND	19.56	162.35	1467.00
12.00 x 7.00 x 4.00 (304.80 x 177.80 x 101.60)	L109-ND	27.14	225.26	2035.50
17.00 x 5.00 x 4.00 (431.80 x 127.00 x 101.60)	L110-ND	29.82	247.51	2236.50
Fig. 2 - Aluminum Boxes (Snap Together)				
2.75 x 2.13 x 1.63 (69.85 x 53.98 x 41.28)	L111-ND	4.70	39.01	352.50
2.75 x 2.13 x 2.75 (69.85 x 53.98 x 69.85)	L112-ND	5.32	44.16	399.00
3.25 x 2.13 x 1.13 (82.55 x 53.98 x 28.58)	L113-ND	4.70	39.01	352.50
4.00 x 2.13 x 1.63 (101.60 x 53.98 x 41.28)	L114-ND	5.32	44.16	399.00
4.00 x 2.00 x 2.75 (101.60 x 50.80 x 69.85)	L115-ND	6.42	53.29	481.50
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L116-ND	6.88	57.10	516.00
5.00 x 4.00 x 3.00 (127.00 x 101.60 x 76.20)	L117-ND	9.60	79.68	720.00
6.00 x 5.00 x 4.00 (152.40 x 127.00 x 101.60)	L118-ND	13.42	111.39	1006.50
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L119-ND	13.58	112.71	1018.50
8.00 x 6.00 x 3.50 (203.20 x 152.40 x 88.90)	L120-ND	16.52	137.12	1239.00
10.00 x 6.00 x 3.50 (254.00 x 152.40 x 88.90)	L121-ND	19.56	162.35	1467.00
Fig. 2 - Crown Royal Series Aluminum Boxes				
2.25 x 1.50 x 1.38 (57.15 x 38.10 x 35.05)	L198-ND	5.64	46.81	423.00
4.25 x 2.25 x 1.25 (107.95 x 57.15 x 31.75)	L199-ND	7.68	63.74	576.00
5.50 x 3.00 x 1.25 (139.70 x 76.20 x 31.75)	L200-ND	10.60	87.98	795.00
5.25 x 3.00 x 2.13 (133.35 x 76.20 x 53.98)	L201-ND	11.12	92.30	834.00
6.25 x 3.50 x 2.13 (158.75 x 88.90 x 53.98)	L202-ND	13.98	116.03	1048.50
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L203-ND	21.08	174.96	1581.00
8.00 x 6.00 x 4.50 (203.20 x 152.40 x 114.30)	L204-ND	28.42	235.89	2131.50
Fig. 3 - Aluminum Consoles				
4.00 x 3.00 x 2.00 (101.60 x 76.20 x 50.80)	L122-ND	8.74	72.54	655.50
5.00 x 3.00 x 2.00 (127.00 x 76.20 x 50.80)	L123-ND	10.08	83.66	756.00
6.00 x 4.00 x 2.25 (152.40 x 101.60 x 57.15)	L124-ND	12.04	99.93	903.00
7.00 x 5.00 x 2.50 (177.80 x 127.00 x 63.50)	L125-ND	13.88	115.20	1041.00
8.00 x 6.00 x 2.75 (203.20 x 152.40 x 69.85)	L126-ND	18.24	151.39	1368.00
9.00 x 7.00 x 3.00 (228.60 x 177.80 x 76.20)	L127-ND	20.06	166.50	1504.50
10.00 x 4.50 x 2.50 (254.00 x 114.30 x 63.50)	L128-ND	18.00	149.40	1350.00
11.00 x 8.00 x 3.50 (279.40 x 203.20 x 88.90)	L129-ND	30.00	249.00	2250.00
13.00 x 10.00 x 4.00 (330.20 x 254.00 x 101.60)	L130-ND	40.74	338.14	3055.50
15.00 x 15.00 x 4.50 (381.00 x 381.00 x 114.30)	L131-ND	66.44	551.45	4983.00
Fig. 3 - Uni-Cab Universal Cabinet System				
5.00 x 5.00 x 1.75 (127.00 x 127.00 x 44.45)	L155-ND	29.90	248.17	2242.50
6.00 x 6.00 x 2.75 (152.40 x 152.40 x 69.85)	L156-ND	31.60	262.28	2370.00
7.00 x 6.00 x 3.50 (177.80 x 152.40 x 88.90)	L157-ND	37.04	307.43	2778.00
5.00 x 7.00 x 3.00 (127.00 x 177.80 x 76.20)	L158-ND	34.36	285.19	2577.00
6.00 x 6.00 x 5.00 (152.40 x 152.40 x 127.00)	L159-ND	39.78	330.17	2983.50
10.00 x 10.00 x 3.00 (254.00 x 254.00 x 76.20)	L161-ND	54.84	455.17	4113.00
10.00 x 12.00 x 4.00 (254.00 x 304.80 x 101.60)	L162-ND	67.96	564.07	5097.00
Fig. 4 - Uni-Cab Universal Cabinet System				
6.00 x 4.00 x 2.00 (152.40 x 101.60 x 50.80)	L154-ND	31.04	257.63	2328.00
10.00 x 6.00 x 4.00 (254.00 x 152.40 x 101.60)	L160-ND	43.90	364.37	3292.50
Fig. 5 - Small Cabinets				
5.00 x 6.00 x 4.00 (127.00 x 152.40 x 101.60)	L147-ND	27.28	226.42	2046.00
6.00 x 8.00 x 5.00 (152.40 x 203.20 x 127.00)	L148-ND	40.04	332.33	3003.00

Dimensions – Inches (mm) D x W x H	Digi-Key Part No.	Pricing 1	10	100
Fig. 6 - Die Cast Enclosures				
3.63 x 1.50 x 1.06 (92.20 x 38.10 x 26.99)	L149-ND	8.26	68.56	619.50
4.38 x 2.38 x 1.06 (111.13 x 60.33 x 26.99)	L150-ND	9.32	77.36	699.00
4.69 x 3.69 x 2.06 (119.08 x 93.65 x 52.40)	L151-ND	14.90	123.67	1117.50
7.39 x 4.70 x 2.06 (187.73 x 119.46 x 52.40)	L152-ND	23.70	196.71	1777.50
7.39 x 4.70 x 3.06 (187.73 x 119.46 x 77.80)	L153-ND	25.56	212.15	1917.00
Fig. 7 - LMB Perforated Box Chassis				
2.75 x 2.13 x 2.63 (69.85 x 53.98 x 66.68)	L163-ND	8.36	69.39	627.00
4.25 x 2.25 x 1.25 (107.95 x 57.15 x 31.75)	L164-ND	7.88	65.40	591.00
4.00 x 2.00 x 2.75 (101.60 x 50.80 x 69.85)	L165-ND	10.20	84.66	765.00
2.75 x 2.13 x 2.13 (69.85 x 53.98 x 53.98)	L166-ND	10.74	89.14	805.50
4.00 x 2.25 x 2.25 (101.60 x 57.15 x 57.15)	L167-ND	9.58	79.51	718.50
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L168-ND	11.14	92.46	835.50
3.75 x 3.00 x 2.13 (95.25 x 76.20 x 53.98)	L169-ND	10.94	90.80	820.50
5.25 x 3.00 x 2.13 (133.35 x 76.20 x 53.98)	L170-ND	12.38	102.75	928.50
8.00 x 3.00 x 2.75 (203.20 x 76.20 x 69.85)	L171-ND	18.12	150.40	1359.00
6.25 x 3.50 x 2.13 (158.75 x 88.90 x 53.98)	L172-ND	15.62	129.65	1171.50
5.50 x 3.00 x 1.25 (139.70 x 76.20 x 31.75)	L173-ND	11.96	99.27	897.00
3.00 x 4.00 x 5.00 (76.20 x 101.60 x 127.00)	L174-ND	16.02	132.97	1201.50
6.00 x 4.00 x 3.00 (152.40 x 101.60 x 76.20)	L175-ND	18.62	154.55	1396.50
6.00 x 4.00 x 5.00 (152.40 x 101.60 x 127.00)	L176-ND	22.62	187.75	1696.50
4.00 x 4.00 x 2.00 (101.60 x 101.60 x 50.80)	L177-ND	12.12	100.60	909.00
10.00 x 4.00 x 2.50 (254.00 x 101.60 x 63.50)	L178-ND	23.46	194.72	1759.50
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L179-ND	23.26	193.06	1744.50
8.00 x 6.00 x 4.50 (203.20 x 152.40 x 114.30)	L180-ND	32.60	270.58	2445.00
Fig. 8 - UNI-PAC Universal Packaging System				
7.00 x 12.00 x 1.75 (177.80 x 304.80 x 44.45)	L181-ND	73.98	614.03	5548.50
9.00 x 12.00 x 3.50 (228.60 x 304.80 x 88.90)	L182-ND	90.80	753.64	6810.00
9.00 x 17.00 x 3.50 (228.60 x 431.80 x 88.90)	L183-ND	105.84	878.47	7938.00
12.00 x 17.00 x 3.50 (304.80 x 431.80 x 88.90)	L184-ND	123.70	1026.71	9277.50
7.00 x 14.00 x 5.25 (177.80 x 355.60 x 133.35)	L185-ND	97.62	810.25	7321.50
9.00 x 17.00 x 5.25 (228.60 x 431.80 x 133.35)	L186-ND	117.84	978.07	8838.00
12.00 x 17.00 x 5.25 (304.80 x 431.80 x 133.35)	L187-ND	138.90	1152.87	10417.50
12.00 x 17.00 x 7.00 (304.80 x 431.80 x 177.80)	L188-ND	155.46	1290.32	11659.50
14.00 x 17.00 x 7.00 (355.60 x 431.80 x 177.80)	L189-ND	169.70	1408.51	12727.50
Fig. 9 - Cap Cover Chassis				
5.00 x 7.00 x 2.00 (127.00 x 177.80 x 50.80)	L190-ND	19.82	164.51	1486.50
5.00 x 7.00 x 3.00 (127.00 x 177.80 x 76.20)	L191-ND	21.36	177.29	1602.00
6.00 x 4.00 x 3.00 (152.40 x 101.60 x 76.20)	L192-ND	19.04	158.03	1428.00
7.00 x 10.00 x 3.00 (177.80 x 254.00 x 76.20)	L193-ND	30.54	253.48	2290.50
8.00 x 10.00 x 2.00 (203.20 x 254.00 x 50.80)	L194-ND	27.90	231.57	2092.50
8.00 x 10.00 x 3.00 (203.20 x 254.00 x 76.20)	L195-ND	31.90	264.77	2392.50
8.00 x 10.00 x 4.00 (203.20 x 254.00 x 101.60)	L196-ND	34.44	285.85	2583.00
8.00 x 12.00 x 3.00 (203.20 x 304.80 x 76.20)	L197-ND	35.36	293.49	2652.00
Fig. 10 - Drawn Miniature Box with Ears (Lids Sold Separately)				
1.75 x 1.25 x .88 (44.45 x 31.75 x 22.23)	L206-ND	1.76	14.61	132.00
2.00 x 1.75 x .75 (50.80 x 44.45 x 19.05)	L208-ND	1.76	14.61	132.00
2.00 x 1.75 x 1.00 (50.80 x 44.45 x 25.40)	L210-ND	1.76	14.61	132.00
2.00 x 2.00 x 1.25 (50.80 x 50.80 x 31.75)	L212-ND	1.76	14.61	132.00
Optional Lids for Drawn Miniature Boxes				
Lid for L206-ND Box................................	L205-ND	1.22	10.13	91.50
Lid for L208-ND Box................................	L207-ND	1.22	10.13	91.50
Lid for L210-ND Box................................	L209-ND	1.22	10.13	91.50
Lid for L212-ND Box................................	L211-ND	1.22	10.13	91.50

ISO 9002 CERTIFIED MANUFACTURER

KEYSTONE ELECTRONICS CORP. Instrument Boxes

• **Panels:** Mount flush inside of case, holes drilled in panel positioned for the inserts • **Phenolic Panel:** ≤ 3/32" (2.38mm) thick glossy black MIL-P-3115C • **Aluminum Panel:** .055" (1.40mm) thick, #5052-H34 per QQ 318 C • **Boxes:** Precision molded with rounded outside corners, and ≤ 3/16" x 3/16" (4.76mm x 4.76mm) deep threaded brass inserts in base.

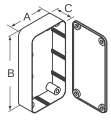


Note 1: 703 and 704 have 4-40 tapped hole in each corner - no inserts
Note 2: 705 mounting holes untapped - Use #4 self tapping screw.

Dimensions Inches (mm)			Case Only		Black Phenolic Panel Only		Aluminum Panel Only	
A	B	C	Digi-Key Part No.	Price Each	Digi-Key Part No.	Price Each	Digi-Key Part No.	Price Each
2.88 (73.15)	4.00 (101.60)	1.56 (39.62)	703K-ND	2.16	2042K-ND	.84	2044K-ND	1.34
2.88 (73.15)	4.00 (101.60)	1.56 (39.62)	705K-ND	1.98	2042K-ND	.84	2044K-ND	1.34
3.13 (79.50)	5.88 (149.35)	2.25 (57.15)	704K-ND	5.06	2043K-ND	1.39	2045K-ND	2.18
3.75 (95.25)	6.25 (158.75)	2.00 (50.80)	700K-ND	4.93	2037K-ND	2.11	2046K-ND	1.99
5.25 (133.35)	6.81 (172.97)	2.31 (58.67)	701K-ND	9.02	2038K-ND	3.17	2047K-ND	2.95
7.38 (187.45)	8.38 (212.85)	3.00 (76.20)	702K-ND	15.73	2039K-ND	6.91	2048K-ND	6.62

Instrument Boxes

Economical cases molded of high impact material. Mating cover has interlocking flange on lid, countersunk holes for flush mounting. Internal grooved guides to hold PC boards and circuit cards from .062 to .093 thick. Ideal for prototype or production usage. • Low cost • Choice of 7 sizes • Sturdy construction



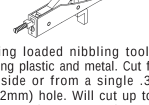
Cases supplied with cover and mounting screws

Dimensions Inches (mm)			Color/ Material	Digi-Key Part No.	Price Each 1	10	100
A	B	C					
2.00 (50.80)	4.00 (101.60)	.812 (20.62)	Blue Styrene	760KE-ND	3.45	3.18	1.88
2.44 (61.90)	4.38 (111.13)	1.06 (26.97)	Blue Styrene	761KE-ND	4.16	3.84	2.26
2.50 (63.50)	4.75 (120.65)	1.40 (35.56)	Blue Styrene	762K-ND	4.49	4.14	2.44
2.88 (73.03)	4.00 (101.60)	1.56 (39.67)	Black ABS	706K-ND	6.60	6.09	3.79
3.15 (80.01)	6.00 (152.40)	1.84 (46.74)	Blue Styrene	763K-ND	6.99	6.45	3.81
3.75 (95.25)	6.25 (158.75)	2.00 (50.80)	Black ABS	707K-ND	10.37	9.57	5.96
4.33 (109.98)	7.50 (190.50)	2.22 (56.39)	Blue Styrene	764K-ND	8.84	8.16	4.83

GC ELECTRONICS™

Nibbler Tool

For Panels, Boxes



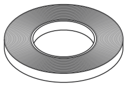
Spring loaded nibbling tool for cutting plastic and metal. Cut from the side or from a single .375" (9.52mm) hole. Will cut up to 18 AWG steel or .062" (1.57mm) copper, brass, aluminum or plastics.

GC395-ND Nibbler Tool....**$12.55**

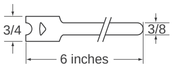
3M Scotch® 100 Wire Tie Wraps

Solid Roll: Scotch® 100 Cable and Wire Tie Wrap incorporates flexibility, a thin profile, and superior strength for unique cable bundling, wire harnessing, and fastening system. Scotch® 100 tie wraps secure quickly and easily, remain locked without slipping, and can be re-used for maximum efficiency. These fasteners are ideal for use on cable and wire assemblies, fiber optic installations, or bundling and wrapping of most items.

6-Inch Straps: Scotch® 100 Cable and Wire Tie Wraps come in 6-inch straps for quick, secure cable and fiber optic bundling, wire harnessing and other fastening needs. The wide strap head allows a tight grip and the pull-through hole allows tight cinching without damaging sensitive cable and components.



Solid Roll



Straps

Tensile Strength of 1/2 inch: 40 lbs. (Other sizes unavailable.)

Features: • Easy to install • Flexible • Superior Strength • Re-usable • Thin Construction • Cable Friendly
Specifications: • **Hook Type:** Polypropylene (Clear) • **Loop Type:** Nylon • **Temp. Rating:** 100°C (212°F)

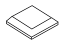
Description	Thick-ness	Shear Strength	Digi-Key Part No.	Price Each
Solid Roll				
Black, 3/8" x 18 yd.	.84 mm (0.033 in.)	20 psi	3M53593-ND	2.82
Black, 1/2" x 18 yd.			3M53594-ND	3.53
Black, 1" x 18 yd.			3M53595-ND	6.35
Perforated Roll (100 count roll)				
Black, 3/8" x 6"	.84 mm (0.033 in.)	20 psi	3M53596-ND	2.82
Black, 1/2" x 6"			3M53597-ND	3.53
Black, 1" x 6"			3M53598-ND	6.35
Perforated Roll (75 count roll)				
Black 3/8" x 8"	.84 mm (0.033 in.)	20psi	3M53599-ND	2.82
Black, 1/2" x 8"	.84 mm (0.033 in.)	20psi	3M53600-ND	3.53
Blue, 1/2" x 8"			3M54141-ND	3.53
Green, 1/2" x 8"			3M54140-ND	3.53
Red, 1/2" x 8"			3M54142-ND	3.53
White, 1/2" x 8"			3M54139-ND	3.53
Yellow, 1/2" x 8"			3M54143-ND	3.53
Black, 1" x 8"	.84 mm (0.033 in.)	20 psi	3M53601-ND	6.35
Blue, 1" x 8"			3M54153-ND	6.35
Green, 1" x 8"			3M54152-ND	6.35
Red, 1" x 8"			3M54154-ND	6.35
White, 1"x 8"			3M54151-ND	6.35
Yellow, 1" x 8"			3M54155-ND	6.35
Straps (50 straps/roll)				
Black, 3/8" x 6"	84 mm (0.033 in.)	27 psi	3M54040-ND	7.50
Yellow, 3/8" x 6"			3M54119-ND	7.50
Blue, 3/8" x 6"			3M54121-ND	7.50
Green, 3/8" x 6"			3M54122-ND	7.50
Red, 3/8" x 6"			3M54120-ND	7.50
White, 3/8" x 6"			3M54118-ND	7.50
HHD 100 Hand Held Dispenser			3M53604-ND	8.72

3M

Bumpons® Protective Products

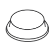
Available in: White, Gray, Brown, Black. Dimensions in inches (mm).

Fig. 1



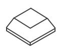
W: .50 (12.70)
H: .12 (3.05)

Fig. 2



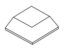
W: .50 (12.70)
Ht: .14 (3.56)

Fig. 3



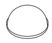
W: .50 (12.70)
Ht: .23 (5.84)

Fig. 4



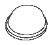
W: .81 (20.57)
Ht: .30 (7.62)

Fig. 5



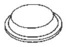
W: .63 (16.00)
Ht: .31 (7.87)

Fig. 6



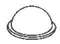
W: .44 (11.18)
Ht: .20 (5.08)

Fig. 7



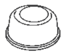
W: .50 (12.70)
Ht: .14 (3.56)

Fig. 8



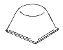
W: .44 (11.18)
Ht: .20 (5.08)

Fig. 9



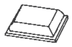
W: .88 (22.35)
Ht: .40 (10.16)

Fig. 10



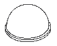
W: .81 (20.57)
Ht: .52 (13.21)

Fig. 11



W: .40 (10.16)
Ht: .10 (2.54)

Fig. 12



W: .75 (19.05)
Ht: .38 (9.65)

Fig.	Digi-Key Part No.*	Pricing			
1	SJ5508-☐-ND	5.02/**64**	43.03/**640**	57.37/**1,024**	118.76/**3,072**
2	SJ5012-☐-ND	4.69/**56**	40.20/**560**	60.30/**1,008**	124.83/**3,024**
3	SJ5518-☐-ND	8.67/**64**	74.34/**640**	99.12/**1,024**	205.19/**3,072**
4	SJ5523-☐-ND	.82/**4**	6.34/**36**	73.99/**504**	102.10/**1,008**
5	SJ5027-☐-ND	8.42/**40**	93.87/**520**	107.94/**1,040**	509.53/**5,200**
6	SJ5303-7-ND†	4.35/**56**	37.31/**560**	55.97/**1,008**	115.86/**3,024**
7	SJ5312-7-ND†	4.69/**56**	40.20/**560**	60.30/**1,008**	124.83/**3,024**
8	SJ5003-☐-ND	4.35/**56**	37.31/**560**	55.97/**1,008**	115.86/**3,024**
9	SJ5009-☐-ND	8.44/**24**	21.70/**72**	126.60/**504**	174.71/**1,008**
10	SJ5514-☐-ND	1.92/**4**	14.83/**36**	173.01/**504**	238.75/**1,008**
11	SJ5007-0-ND	3.93/**54**	33.71/**540**	56.19/**1,080**	108.55/**3,024**
12	SJ5017-☐-ND	10.79/**40**	120.23/**520**	138.26/**1,040**	656.65/**5,200**

* *To designate color, use the following numbers:*
9–white, **8**–gray, **1**–brown, **0**–black, in the ☐ of each part #. † Transparent.

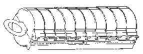
3M Tape

Foil Shielding Tape

Scotch® EMI/RFI Copper Foil Shielding Tapes provide an easy-to-apply, time saving, cost-effective way to shield against EMI/RFI radiation. Foil tapes are conductive through the adhesive, and offer mechanical, electrical and thermal values to your shielding effectiveness/frequency requirements.

Description	Digi-Key Part No.	Price Each 1	5
1/4" x 18 yds. (6.35mm x 16.46 meters)	3M1181A-ND	10.50	9.00
1/2" x 18 yds. (12.70mm x 16.46 meters)	3M1181B-ND	20.98	17.99
1" x 18 yds.(25.40mm x 16.46 meters)	3M1181C-ND	41.97	35.97

Scotchcode Wire Marker Tape Dispenser



BK = Black
BL = Blue
BN = Brown
GN = Green
GY = Gray
OR = Orange
RD = Red
VL = Violet
WH = White
YL = Yellow

Description	Digi-Key Part No.	Price Each
Dispenser Only	STD-ND	11.18
Dispenser with 0-9 Marker Tape	STD-0-9-ND	34.08
Dispenser with Colored Marker Tape	STD-C-ND	34.08
Refill, 1 roll, number - ☐ = 0 thru 9	SDR-☐-ND*	2.46
Refill, 1 roll, colors - ☐☐ = Color Designation	SDR-☐☐-ND*	2.46

***** Refill Rolls 8 Feet (2.44 Meters) in Length

Scotch™ Adhesive Transfer Tapes 9703

Scotch Adhesive Transfer Tapes aren't really "tapes" at all. They're actually thin strips of pressure sensitive adhesive pre-applied on special release liners. This allows you to quickly and easily apply a neat, precise strip of clean, dry adhesive exactly where you want it. **Mounts fast, flexible circuits:** Features electrical conductivity only through the adhesive thickness. Completely eliminates the need for soldering, solvents, messy cleanup. • Thickness: 0.002" (.05mm) • Adhesive: Acrylic A-40 **Applications:** • Attach EMI/RFI shields • Connect flat flexible circuits • Attach electronic components

Description	Digi-Key Part No.	Price Each
Width, 0.75 (19.05)	3M970334-ND	86.48
Width, 0.5 (12.70)	3M970312-ND	65.50

Scotch™ 130C-mil Linerless Rubber Splicing Tape

3M's premier rubber-based, high-voltage insulating tape. Its thermally conductive design eliminates hot spots in splicing and terminating 600V to 69k V. Meets requirements of HH-I-553C, Grade A and B, and ASTM D-4388, Type III.

Description	Digi-Key Part No.	Price Each
3/4" x 30 ft. (19.05mm x 9.1m)	3M130C-ND	11.86

Scotch™ 35 7-mil Vinyl Electrical Color Coding Tape

Agile and versatile performer that stretches to conform to virtually any shape that requires color-coded insulation. Its excellent elongation, flexibility and strength make it easy to handle. The eight fade-resistant colors are easily distinguished for fast identification of electrical phases, leads, piping and safety areas. Meets requirements of UL 510 & CSA 22.2 **Features:** • Aggressive pressure-sensitive, rubber-based adhesive • Excellent electrical insulating properties • Resists weather, abrasion, corrosion, alkalies and acids • Flame retardant

Description	Digi-Key Part No.	Price Each
3/4 inch x 66 feet (19mm x 20.1m) Color Designation ☐☐	3M35-☐☐-ND	4.70

BL = Blue
GN = Green
GY = Gray
OR = Orange
RD = Red
VL = Violet
WH = White
YL = Yellow

Scotch™ 70 Self- Fusing Silicone Rubber Electrical Tape

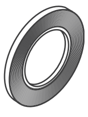
High-temperature, arc- and track-resistant self-fusing tape. It's composed of long-lasting silicone rubber with an easy-tear, easy-strip liner. Scotch 70 Tape is well-suited to protect high-voltage cable terminations against arcing and tracking. Operating Temperature: 180°C.

Description	Digi-Key Part No.	Price Each 1	10
1" x 30 ft. (25.4mm x 9.1 meters)	3M70-ND	38.30	33.52

Electrical Tape

Description	Digi-Key Part No.	Price Each
Super 33` Vinyl Plastic Electrical Tape, 3/4" x 66 ft. (19.05mm x 20.12m)	3M33+A-ND	5.06/Roll
Super 88 Vinyl Plastic Electrical Tape, 3/4" x 66 ft. (19.05mm x 20.12m)	3M88A-ND	5.70/Roll
Highland Vinyl Plastic Tape, 3/4" x 60 ft. (19.05mm x 18.2m)	3M1700-ND	.98/Roll
Vinyl Mastic Pad, 3-1/4" x 4-1/2" (82.55mm x 114.30mm)	3M11008-ND	3.02/Roll

Scotch-Mount™
No. 4008 & 4026 Double Coated Foam Tapes



The foam carrier makes them flexible and conformable, great for filling space and ideal for joining rough and irregular surfaces. • Adhesive: Acrylic A-20 **Applications:** • Bond mirrors to walls or furniture • Bond acoustic panels to walls

Description	Digi-Key Part No.	Price Each
Thickness, 0.125 (3.18)	3M4008-ND	48.59
Thickness, 0.062 (1.57)	3M4026-ND	28.10

(Continued)

3M Tape *(Cont.)*

Scotch-Mount™ Double-Coated Foam Tape

Urethane Foam: Soft, conformable, and high in internal strength which makes it ideal for general purpose mounting and joining. The excellent cold temperature properties make it suited for application on snowmobiles, freezers, etc. Vinyl Foam: Designed for general purpose mounting and joining, they offer one-piece removal. Their high degree of conformability makes them well suited for joining rough, mismatched surfaces and the closed-cell foam makes excellent water and air seal in certain applications.

Description	Digi-Key Part No.	Price Each
Urethane 1/16” Thick, 1” x 36 yards, white (1.59mm x 25.40mm x 32.92meters)	3M40161-ND	32.70
Vinyl 1/8” Thick, 1” x 36 yards (3.18mm x 25.40mm x 32.92meters)	3M44081-ND	67.47
Vinyl 1/16” Thick, 1” x 36 yards, black (1.59mm x 25.40mm x 32.92meters)	3M44161B-ND	51.74
Vinyl 1/16” Thick, 1” x 36 yards, white (1.59mm x 25.40mm x 32.92meters)	3M44161W-ND	51.74

6969 Duct Tape

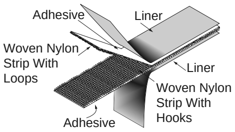
3M Highland 6969 is a 10.8-mil (0.27mm) commercial grade polyethylene coated cloth tape with rubber adhesive for moisture proofing plumbing, duct sealing, protecting, holding and other general purpose uses. It is silver colored, high tack, conformable, strong and easily torn. 6969 resists backing distortion at temperatures up to 150°F (65°C) for one hour.

Description	Digi-Key Part No.	Price Each
2” x 60 yd. roll (50.8mm x 54.8m), Black	3M69692B-ND	9.40
2” x 60 yd. roll (50.8mm x 54.8m), Silver	3M69692S-ND	17.05

3M Fastening Systems

Scotchmate™ Hook and Loop Fastening Systems

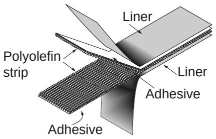
When the two sides of a Scotch-mate Hook and Loop Fastener are pressed together, hundreds of tiny, stiff hooks mesh with a surface of pliable loops. Simply press together to fasten and pull apart to open. And do it thousands of times during the life of your product. Depending on the application, select either plain-backed or adhesive-backed versions. Plain-backed versions are easily sewn, stapled or sewn in place. Adhesive-backed fasteners are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more. **Plain, standard sew on:** Wash or dry clean • Operating Temperature: Up to 250°F (121°C) continuous • Features: Tailored appearance for garments **Pressure sensitive rubber adhesive:** • **Features:** General purpose adhesion to most smooth surfaces • **Operating Temp.:** -20°F to 120°F (-29°C to 49°C) ***Note: Roll length is 50 yards (45.72 meters)***



Description	Digi-Key Part No.	Price Each
Hook & Loop Fastening Systems - 50 yds. (45.72meters)		
Loop, plain back sew on, 5/8” (15.88mm), black	SJ340158-0-ND	13.50
Hook, plain back sew on, 5/8” (15.88mm), black	SJ340258-0-ND	13.50
Loop, plain back sew on, 5/8” (15.88mm), white	SJ340158-9-ND	13.49
Hook, plain back sew on, 5/8” (15.88mm), white	SJ340258-9-ND	13.49
Loop, plain back sew on, 1” (25.40mm), black	SJ340110-0-ND	19.25
Hook, plain back sew on, 1” (25.40mm), black	SJ340210-0-ND	19.25
Loop, plain back sew on, 1” (25.40mm), white	SJ340110-9-ND	19.23
Hook, plain back sew on, 1” (25.40mm), white	SJ340210-9-ND	19.23
Hook, adhesive back, 5/8” (15.88mm), black	SJ352658-0-ND	57.91
Loop, adhesive back, 5/8” (15.88mm), black	SJ352758-0-ND	57.91
Hook, adhesive back, 1” (25.40mm), black	SJ352610-0-ND	71.37
Loop, adhesive back, 1” (25.40mm), black	SJ352710-0-ND	71.37

Dual Lock™ Reclosable Fastening Systems

When Dual Lock brand Reclosable Fasteners are pressed together, hundreds of mushroom-shaped stems interlock with one another. An audible snap announces that the closure is locked. Compared to hook and loop fasteners, you get improved tensile strength with five times more holding power. Open and close hundreds of times during the life of your product. Depending on the applications, you can select either plain-backed or adhesive-backed versions. Plain-backed versions can be easily sewn, stapled or ultrasonically bonded in place. Adhesive-backed versions are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more. Mating Type 400 and Type 170 stems provides the most universal Dual Lock fastener combination. As an alternative when the closure involves two flexible surfaces, Type 400 can be mated with itself. For even greater strength closures with limited openings and closing, Type 170 can be mated with Scotchmate Loop Products. **Plain-backed:** Sew on or staple. Wash or dry clean. • Operating Temperature: -20°F to 200°F (-29°C to 93°C) **Pressure sensitive rubber adhesive:** General purpose. Bonds to most surfaces. • Operating Temperature: -20°F to 120°F (-29°C to 49°C) continuous. **Pressure sensitive very high bond Scotch™ VHB™ acrylic adhesive:** High performance for aircraft, automotive, business equipment, electronics. Resists harsh wet/dry, hot/cold cycles. • Operating Temperature: -20°F to 158°F (-29°C to 70°C) continuous ***Note: Roll length is 50 yards (45.72 meters)***



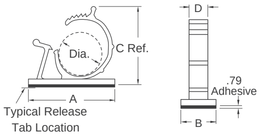
Description	Digi-Key Part No.	Price Each
Dual-Lock Fastening Systems		
Loop, plain back sew on, .5” (12.70mm), black	SJ344112-ND†	64.37
Hook, plain back sew on, .5” (12.70mm), black	SJ344212-ND•	64.37
Loop, plain back sew on, 1” (25.40mm), black	SJ344110-ND†	107.28
Hook, plain back sew on, 1” (25.40mm), black	SJ344210-ND•	107.28
Loop, pressure sensitive adhesive back, .5” (12.70mm), black	SJ354112-ND†	77.62
Hook, pressure sensitive adhesive back, .5” (12.70mm), black	SJ354212-ND•	77.62
Loop, pressure sensitive adhesive back, 1” (25.40mm), black	SJ354110-ND†	127.45
Hook, pressure sensitive adhesive back, 1” (25.40mm), black	SJ354210-ND•	127.45
Dual-Lock High Bond Fastening Systems		
Loop, pressure sensitive adhesive back, .5” (12.70mm), black	SJ355112-ND†	113.83
Hook, pressure sensitive adhesive back, .5” (12.70mm), black	SJ355212-ND•	113.83
Loop, pressure sensitive adhesive back, 1” (25.40mm), black	SJ355110-ND†	181.84
Hook, pressure sensitive adhesive back, 1” (25.40mm), black	SJ355210-ND•	181.84
Hook, plain back sew on, .5” (12.70mm), clear	SJ346012-ND	74.73
Loop, pressure sensitive very hi bond back, .5” (12.70mm), clear	SJ356012-ND	133.32
Hook, plain back sew on, 1” (25.40mm), clear	SJ346010-ND	124.55
Loop, pressure sensitive very hi bond back, 1” (25.40mm), clear	SJ356010-ND	209.97

† Mating Type 400 • Mating Type 170

Richco

Adjustable Kwik Klip

• 4 sizes adjust to any holding diameter from 5/16" to 1" (7.9-25.4mm) • Locks securely, easily reopened for routing changes. Adhesive back • Material: Nylon 6/6 • Color: Natural



Dia. Range (mm)	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
7.87-10.16	25.40	19.05	22.10	10.16	RP309-ND	7.79	64.93	259.70	AKKL-3140A-RT
11.68-14.22	31.75	19.05	27.69	10.16	RP310-ND	9.74	81.17	324.68	AKKL-4756A-RT
14.48-19.05	38.10	19.05	31.75	12.70	RP311-ND	12.01	100.11	400.44	AKKL-5775A-RT
22.10-25.40	50.80	25.40	44.45	12.70	RP312-ND	15.20	126.66	506.62	AKKL-8710A-RT

Tie Holders

Fig. 1

• Multi-directional • Material: Nylon 6/6, UV Stabilized Nylon 6/6

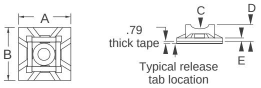
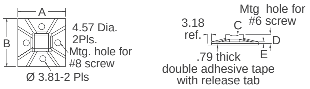


Fig. 2

• Ramp feature allows ties to pass through easily • 4-way entry • Material: Nylon 6/6, Adhesive, UV Stabilized Nylon 6/6



Digi-Key Part No.	Digi-Key Part No.	Description (mm) A	B	C	D	E	Tensile Force (kg)
RP301-ND	RP305-ND	19.05	19.05	6.35	6.10	1.52	6.72/11.20
RP302-ND	RP306-ND	25.40	25.40	11.68	7.11	1.78	18.66/22.39
RP303-ND	RP307-ND	38.10	38.10	10.92	7.62	2.03	44.79
RP304-ND	RP308-ND	50.80	50.80	10.92	7.62	2.03	44.79

Fig.	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
Nylon					
1	RP301-ND	3.75	31.26	125.04	FTH-5A-01A-RT
1	RP302-ND	4.70	39.17	156.66	FTH-7-01A-RT
2	RP303-ND	12.70	105.81	423.22	FTH-8-01A-RT
2	RP304-ND	16.93	141.08	564.32	FTH-10-01A-RT
Ultra Violet – Exterior or Outdoor Use (Black)					
1	RP305-ND	3.55	29.61	118.42	FTH-5-01A-RT-UVB
1	RP306-ND	6.19	51.59	206.36	FTH-7-01A-RT-UVB
2	RP307-ND	14.15	117.95	471.78	FTH-8-01A-RT-UVB
2	RP308-ND	18.62	155.19	620.76	FTH-10-01A-RT-UVB

LED Spacers

• Spaces LED from surface of board • Easily installed by hand • Insulates and spaces leads • Slots and holes for choice of mount • Material for LEDS1E and LEDS2E: Nylon 6/6 • Color: Natural

Fig. 1

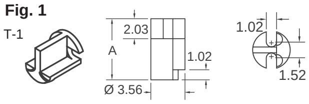


Fig. 2

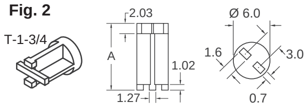
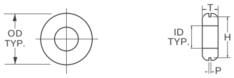


Fig.	Dim. A (mm)	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
1	4.57	RP500-ND	3.47	28.93	115.72	LEDS1E-3-01
	6.35	RP501-ND	3.67	30.57	122.28	LEDS1E-4-01
	12.70	RP502-ND	4.05	33.79	135.16	LEDS1E-8-01
	15.75	RP503-ND	4.15	34.62	138.46	LEDS1E-10-01
	19.05	RP504-ND	4.23	35.23	140.90	LEDS1E-12-01
2	4.57	RP505-ND	4.39	36.61	146.42	LEDS2E-3-01
	6.35	RP506-ND	4.59	38.24	152.94	LEDS2E-4-01
	12.70	RP507-ND	4.97	41.44	165.76	LEDS2E-8-01
	15.75	RP508-ND	5.06	42.13	168.50	LEDS2E-10-01
	19.05	RP509-ND	5.13	42.75	170.98	LEDS2E-12-01

Hole Grommet

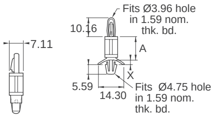
- Installs instantly
- Material: Flexible vinyl
- Color: Black



Inside Dia. ID (mm)	Hole Size H (mm)	Panel Thick. P (mm)	Outside Dia. OD (mm)	Grommet Thick. T (mm)	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
3.05	4.57	1.52	7.87	6.35	RP450-ND	1.53	12.73	50.90	HG-2
3.81	6.35	1.52	9.40	6.35	RP451-ND	1.57	13.11	52.44	HG-2.5
4.57	7.87	.76	10.92	4.57	RP452-ND	1.73	14.40	57.58	HG-3
5.33	7.87	1.52	10.92	5.33	RP453-ND	1.93	16.05	64.20	HG-3.5
6.35	9.40	2.29	14.22	7.11	RP454-ND	2.12	17.68	70.72	HG-4
9.40	12.70	1.52	17.27	7.11	RP455-ND	3.53	29.46	117.82	HG-6
14.22	17.27	1.52	22.10	4.57	RP456-ND	4.48	37.32	149.28	HG-9
17.27	19.05	1.52	23.62	4.57	RP457-ND	4.95	41.23	164.92	HG-11

Richco

Locking Circuit Board Supports


7.11
10.16
Fits Ø3.96 hole in 1.59 nom. thk. bd.
A
X
5.59
14.30
Fits Ø4.75 hole in 1.59 nom. thk. bd.

- Both ends lock by hand; no tools required
- Strong, dependable grip
- Material: Nylon 6/6
- Color: Natural

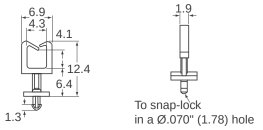
Dim. A (mm)	Digi-Key Part No.	Pricing 10	100	500	1,000	Richco Part No.
4.57	RP425-ND	2.24	18.67	74.68	112.02	LCBS-3
6.35	RP426-ND	2.38	19.87	79.48	119.22	LCBS-4
9.40	RP428-ND	2.50	20.87	83.48	125.22	LCBS-6
10.92	RP429-ND	2.60	21.71	86.82	130.23	LCBS-7
12.70	RP430-ND	2.69	22.45	89.78	134.67	LCBS-8
15.75	RP431-ND	2.88	24.01	96.02	144.03	LCBS-10
19.05	RP432-ND	3.07	25.59	102.36	153.54	LCBS-12
25.40	RP434-ND	3.45	28.77	115.08	172.62	LCBS-16

Wire Saddle

Wire Saddles are ideal for routing wires or optical fiber. Wires can be easily inserted into the top side of the saddle to protect them from abrasion. The “micro” is ideal for low profile applications and takes up very little real estate.

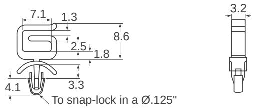
The MOFNSA is designed to snap into a .125” diameter hole in a .093” thick panel for applications that require a thicker board than the standard 1/16” board.

Micro



To snap-lock in a Ø.070" (1.78) hole

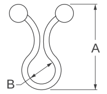
MOFNSA



To snap-lock in a Ø.125" (3.15) hole in a .093" (2.36) nom. thick panel

Hole Dim In. (mm)	Panel Thick. In. (mm)	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
Standoff Micro Wire Saddle						
.070 (1.75)	.062 (1.57)	RP738-ND	3.19	26.62	106.46	SMWS-1-01
.070 (1.75)	.093 (2.36)	RP739-ND	3.19	26.62	106.46	SMWS1-1-01
Mini Optical Fiber Network Saddle						
.125 (3.18)	.093 (2.36)	RP737-ND	2.55	21.26	85.02	MOFNSA-2-01

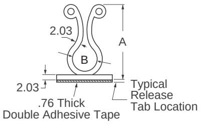
Twist-Lok (TL Series)



- Twist to secure wire bundles
- Material: Nylon 6/6, RMS-01
- Color: Natural

“A” Overall Hgt. (mm)	“B” Wire Bundle Dia. (mm)	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
22.86	5.08-7.62	RP600-ND	2.81	9.64	57.82	TL-250
26.16	7.62-10.16	RP601-ND	3.01	10.31	61.85	TL-350
30.48	10.16-12.70	RP602-ND	3.24	11.11	66.67	TL-450
33.78	13.97-16.51	RP603-ND	3.38	11.60	69.62	TL-600
39.37	17.78-20.32	RP604-ND	3.93	13.47	80.82	TL-750
43.18	Max. 25.40	RP605-ND	4.04	13.86	83.16	TL-950
55.63	Max. 30.23	RP606-ND	5.47	18.77	112.61	TL-1125
68.07	Max. 36.58	RP607-ND	6.51	22.33	133.99	TL-1375
74.42	Max. 39.62	RP608-ND	8.08	27.71	166.28	TL-1500
87.63	Max. 45.97	RP609-ND	8.57	29.39	176.33	TL-1750

Kurly-Lok On Base (KLB Series)

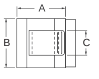


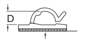
- Adhesive backing, RMS-15
- Material: Nylon 6/6, RMS-01
- Color: Natural

“A” Overall Height (mm)	“B” Wire Bundle (mm)	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
27.18	7.62-10.16	RP610-ND	12.57	43.08	258.48	KLB-350A-RT
31.24	10.16-12.70	RP611-ND	13.89	47.63	285.77	KLB-450A-RT
40.13	17.78-20.32	RP612-ND	14.60	50.04	300.24	KLB-750A-RT

Wire Cord Klip (WCK Series)

- Adhesive backing for quick mounting
- Material: Nylon 6/6, RMS-01
- Color: Natural





7.62 Thick Double Adhesive Tape with Release Tab

Hole Dia.	Dimensions (mm) A	B	C	D
4.57	16.00	15.75	7.87	4.06
11.43	25.15	25.15	11.94	7.11
18.29	25.40	25.40	12.70	13.46

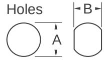
Description	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
4.57mm. Dia., w/Tape	RP617-ND	13.90	47.66	285.95	WCK-180-01A-RT
11.43mm. Dia., w/Tape	RP618-ND	24.40	83.64	501.84	WCK-460-01A-RT
18.29mm. Dia., w/Tape	RP619-ND	30.33	103.99	623.92	WCK-720-01A-RT
4.57mm. Dia., w/oTape	RP620-ND	4.69	15.10	130.18	WCK-180-01
11.43mm. Dia., w/oTape	RP621-ND	9.45	30.45	262.50	WCK-460-01
18.29mm. Dia., w/oTape	RP622-ND	11.68	37.64	324.50	WCK-720-01

Strain Relief Bushings

(SRB-D/F/R Series)

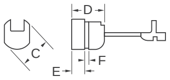
- Bushing eliminates strain and wear on wires and cords
- Withstands temperatures to 150°F (65°C)
- Material: Nylon 6/6, RMS-40
- Color: Black
- UL #E40234, CSA #LR52044

Mounting Holes



Style A Style B

Bushing Dimensions



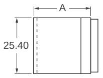
Digi-Key Part No.	Approx. Wire Size (mm)	Mntg. Hole (mm) Style A	Style B	Dimensions (mm) C	D	E	F*
RP460-ND	3.05 x .5.59	11.10	10.03	11.68	10.41	4.06	1.57
RP461-ND	2.79 x 5.33	9.52	8.76	10.79	10.41	3.94	1.57
	2.29 x 4.57						
RP462-ND	4.09 x 7.62	13.08	11.81	14.48	12.70	4.34	2.54
	3.81 x 7.11	12.70					
RP463-ND	4.06 x 9.40	14.27	13.46	15.49	15.24	6.10	3.30
	3.81 x 8.64						
	5.08 x 9.40						
	4.57 x 8.89						
RP464-ND	4.83 x 7.62	12.70	11.58	13.84	10.19	3.61	1.80
	3.81 x 7.11						
	4.06 x 7.62						
RP465-ND	6.35	12.70	11.81	14.22	10.92	4.19	2.54
	6.73	13.08					
	7.37	13.08					
	6.86	12.70					
RP466-ND	8.25	16.66	14.48	18.45	17.27	6.98	3.18
	7.62						
	9.02	17.45					
	8.38						

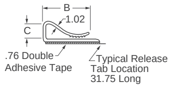
* Maximum Panel Thickness

Digi-Key Part No.	Pricing 25	100	1,000	5,000	Richco Part No.
RP460-ND	3.25	11.15	66.92	53.92/M	SRB-D-3
RP461-ND	9.74	33.40	200.41	161.45/M	SRB-F-2
RP462-ND	4.14	14.20	85.21	68.65/M	SRB-F-4
RP463-ND	13.15	45.07	270.43	217.85/M	SRB-F-5
RP464-ND	3.37	11.57	69.41	55.92/M	SRB-F-7
RP465-ND	3.59	12.30	73.80	59.45/M	SRB-R-5
RP466-ND	7.97	27.31	163.87	132.01/M	SRB-R-6
RPSRPL-ND	SRB Pincher Tool.................................$79.43 each				SRPL-2

C-Type Flat Cable Clamps

(CFCC Series)





- Designed for routing flat ribbon cable • Serrated grip to prevent slippage • Adhesive backing for quick mount in any direction • Material: Noryl-White, RMS-05; PVC-Gray RMS-04

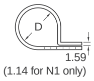
Digi-Key Part No.	Dimensions (mm) A	B	C	Material
RP391-ND	14.27	12.45	4.57	Noryl (White)
RP392-ND	14.27	10.16	6.35	Noryl (White)
RP393-ND	26.97	22.35	6.35	Noryl (White)
RP394-ND	26.97	22.35	6.35	Rigid PVC (Gray)

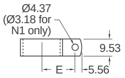
Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
RP391-ND	11.95	40.97	245.84	CFCC-3-05A-RT
RP392-ND	15.17	52.00	311.98	CFCC-4-05A-RT
RP393-ND	18.93	64.89	389.34	CFCC-8-05A-RT
RP394-ND	14.60	50.05	300.28	CFCC-8-04A-RT

Cable Clamps

(N Series)

- Material: Nylon 6/6, RMS-01
- Colors: Natural and Black





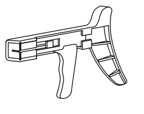
Description	Dim. (mm) D	E	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
Black, RMS-49	1.60	6.86	RP322-ND	1.74	5.95	35.71	N-1-BK
Black, RMS-49	3.18	8.33	RP323-ND	1.77	6.07	36.40	N-2-BK
Black, RMS-49	4.78	9.91	RP324-ND	2.03	6.97	41.83	N-3-BK
Black, RMS-49	6.35	10.69	RP325-ND	2.11	7.24	43.42	N-4-BK
Black, RMS-49	7.95	11.51	RP326-ND	2.14	7.32	43.92	N-5-BK
Black, RMS-49	9.52	12.29	RP327-ND	2.32	7.94	47.63	N-6-BK
Black, RMS-49	11.13	11.99	RP328-ND	2.40	8.23	49.39	N-7-BK
Black, RMS-49	12.70	14.27	RP329-ND	2.43	8.33	49.97	N-8-BK
Natural, RMS-01	1.60	6.86	RP314-ND	1.93	6.62	39.71	N-1
Natural, RMS-01	3.18	8.33	RP315-ND	1.76	6.03	36.18	N-2
Natural, RMS-01	4.78	9.91	RP316-ND	2.02	6.92	41.51	N-3
Natural, RMS-01	6.35	10.69	RP317-ND	2.10	7.19	43.13	N-4
Natural, RMS-01	7.95	11.51	RP318-ND	2.12	7.28	43.67	N-5
Natural, RMS-01	9.52	12.29	RP319-ND	2.57	8.82	52.92	N-6.173
Natural, RMS-01	11.13	11.99	RP320-ND	2.39	8.19	49.14	N-7
Natural, RMS-01	12.70	14.27	RP321-ND	2.42	8.28	49.68	N-8

Richco

Wrap-It-Ties

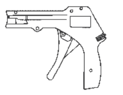
• Easy to use permanent lock • Strong, one-piece construction • Serviceable to 185°F (85°C) • UL recognized #E71558

Wire Tie Gun



RPWTA-ND $10.88

Economy Installation Tool



RPWTG-ND $47.52

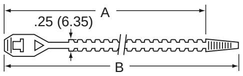
Replace □ with "C" for package of 100, "M" for package of 1,000.

Max. Bundle Dia. (in.)	Approx. Length (in.)	Tensile Strength (Lbs.)	Approx. Width (in.)	Color	Digi-Key Part No.	Package Size		Richco Part No.
						Price Per Pkg. C = 100	Price Per Pkg. M = 1000	
Nylon 6/6								
0.6	3.25	18	.10	Natural	RP101□-ND	3.29	16.70	WIT-18SF
0.6	3.25	18	.10	Green	RP101GN□-ND	3.29	—	WIT-18SF-GN
0.6	3.25	18	.10	Red	RP101RD□-ND	3.29	16.70	WIT-18SF-RD
0.6	3.25	18	.10	Yellow	RP101YL□-ND	3.29	—	WIT-18SF-YL
0.7	4.5	18	.10	Natural	RP102□-ND	3.59	18.22	WIT-18R
0.7	4.5	18	.10	Blue	RP102BL□-ND	3.59	18.36	WIT-18R-BL
0.7	4.5	18	.10	Green	RP102GN□-ND	3.59	18.22	WIT-18R-GN
0.7	4.5	18	.10	Red	RP102RD□-ND	3.59	18.22	WIT-18R-RD
0.7	4.5	18	.10	Yellow	RP102YL□-ND	3.59	18.22	WIT-18R-YL
1.3	5.75	18	.10	Natural	RP213□-ND	4.19	21.28	WIT-18L
2.1	8.0	18	.10	Natural	RP103□-ND	6.83	34.74	WIT-18V
2.1	8.0	18	.10	Blue	RP103BL□-ND	6.83	—	WIT-18V-BL
2.1	8.0	18	.10	Green	RP103GN□-ND	6.83	—	WIT-18V-GN
2.1	8.0	18	.10	Yellow	RP103YL□-ND	6.83	34.74	WIT-18V-YL
1.2	5.75	30	.14	Natural	RP104□-ND	6.64	33.77	WIT-30R
1.2	5.75	30	.14	Blue	RP104BL□-ND	6.64	33.77	WIT-30R-BL
1.2	5.75	30	.14	Green	RP104GN□-ND	6.64	33.77	WIT-30R-GN
1.2	5.75	30	.14	Red	RP104RD□-ND	6.64	33.77	WIT-30R-RD
1.2	5.75	30	.14	Yellow	RP104YL□-ND	6.64	33.77	WIT-30R-YL
1.8	7.3	30	.14	Natural	RP105□-ND	7.16	36.36	WIT-30L
1.8	7.3	30	.14	Blue	RP105BL□-ND	7.16	—	WIT-30L-BL
1.8	7.3	30	.14	Green	RP105GN□-ND	9.62	—	WIT-30L-GN
1.8	7.3	30	.14	Red	RP105RD□-ND	—	36.36	WIT-30L-RD
1.8	7.3	30	.14	Yellow	RP105YL□-ND	7.16	36.36	WIT-30L-YL
0.7	4.5	40	.14	Natural	RP214□-ND	5.86	32.76	WIT-40S
1.2	5.75	40	.14	Natural	RP106□-ND	7.70	39.10	WIT-40R
1.2	5.75	40	.14	Blue	RP106BL□-ND	7.70	39.10	WIT-40R-BL
1.2	5.75	40	.14	Green	RP106GN□-ND	7.70	39.10	WIT-40R-GN
1.2	5.75	40	.14	Red	RP106RD□-ND	7.70	39.10	WIT-40R-RD
1.2	5.75	40	.14	Yellow	RP106YL□-ND	7.70	39.10	WIT-40R-YL
1.8	7.3	40	.14	Natural	RP107□-ND	9.59	48.71	WIT-40L
1.8	7.3	40	.14	Blue	RP107BL□-ND	9.59	48.71	WIT-40L-BL
1.8	7.3	40	.14	Green	RP107GN□-ND	9.59	48.71	WIT-40L-GN
1.8	7.3	40	.14	Red	RP107RD□-ND	9.59	48.71	WIT-40L-RD
1.8	7.3	40	.14	Yellow	RP107YL□-ND	9.59	48.71	WIT-40L-YL
3.1	11.1	40	.15	Natural	RP215□-ND	19.19	107.60	WIT-40VL
1.5	6.0	50	.19	Natural	RP108□-ND	7.84	39.82	WIT-50S
1.5	6.0	50	.19	Blue	RP108BL□-ND	—	39.82	WIT-50S-BL
1.5	6.0	50	.19	Green	RP108GN□-ND	7.84	39.82	WIT-50S-GN
1.5	6.0	50	.19	Red	RP108RD□-ND	7.84	—	WIT-50S-RD
1.5	6.0	50	.19	Yellow	RP108YL□-ND	7.84	39.82	WIT-50S-YL
2.0	8.0	50	.19	Natural	RP109□-ND	9.23	46.87	WIT-50R
2.0	8.0	50	.19	Blue	RP109BL□-ND	9.23	46.87	WIT-50R-BL
2.0	8.0	50	.19	Green	RP109GN□-ND	9.23	46.87	WIT-50R-GN
2.0	8.0	50	.19	Red	RP109RD□-ND	9.23	46.87	WIT-50R-RD
2.0	8.0	50	.19	Yellow	RP109YL□-ND	9.23	46.87	WIT-50R-YL
4.5	15.3	50	.18	Natural	RP110□-ND	15.95	80.96	WIT-50L
4.5	15.3	50	.18	Blue	RP110BL□-ND	15.95	—	WIT-50L-BL
4.5	15.3	50	.18	Yellow	RP110YL□-ND	15.95	—	WIT-50L-YL
2.7	10.7	60	.18	Natural	RP216□-ND	13.74	69.73	WIT-60R
4.2	15.06	120	.30	Natural	RP111C-ND	37.18	—	WIT-120R
UV Stabilized Nylon 6/6 – Exterior or Outdoor Use								
0.6	3.25	18	.10	Black	RP201□-ND	3.61	18.36	WIT-18SF-UVB
0.7	4.5	18	.10	Black	RP202□-ND	3.95	20.02	WIT-18R-UVB
2.1	8.0	18	.10	Black	RP203□-ND	7.51	38.20	WIT-18V-UVB
1.2	5.75	30	.14	Black	RP204□-ND	7.31	37.15	WIT-30R-UVB
1.8	7.3	30	.14	Black	RP205□-ND	7.88	40.00	WIT-30L-UVB
1.2	5.75	40	.14	Black	RP206□-ND	8.47	43.02	WIT-40R-UVB
1.8	7.3	40	.14	Black	RP207□-ND	10.55	53.57	WIT-40L-UVB
1.5	6.0	50	.19	Black	RP208□-ND	8.62	43.78	WIT-50S-UVB
2.0	8.0	50	.19	Black	RP209□-ND	10.15	51.55	WIT-50R-UVB
4.5	15.3	50	.18	Black	RP210□-ND	17.55	89.06	WIT-50L-UVB
4.2	15.06	120	.30	Black	RP211C-ND	40.89	—	WIT-120R-UVB
Nylon 6/6, Size 10 / Screw Mount								
1.5	6.75	50	.19	Natural	RP224□-ND	18.11	91.94	WITSH-10-50MS
2	8.69	50	.19	Natural	RP225□-ND	20.47	103.90	WITSH-10-50MRL
3	11.25	50	.19	Natural	RP226□-ND	21.69	110.12	WITSH-10-50MR
Nylon 6/6 Release Tab								
1.25	5.5	40	.21	Natural	RP217□-ND	16.84	85.43	WIT-RT-0550
2	8.0	40	.21	Natural	RP218□-ND	18.55	94.18	WIT-RT-0800
2.5	10.5	40	.21	Natural	RP219□-ND	28.05	142.31	WIT-RT-1050

Max. Bundle Dia. (In.)	Approx. Length (In.)	Tensile Strength (Lbs.)	Approx. Width (In.)	Color	Digi-Key Part No.	Pricing 25	100	Richco Part No.
Nylon 6/6 Release Tab (Large Size)								
4	15.25	250	.52	Natural	RP221-ND	37.37	128.12	WIT-RT-1525
6	21.5	250	.52	Natural	RP222-ND	44.84	153.74	WIT-RT-2150
8	27.75	250	.52	Natural	RP223-ND	51.21	175.57	WIT-RT-2775

Hanking Ties

- Wrap electrical cords for shipping and packaging
- Material: Polyethylene
- Color: Natural



Max. Bundle Dia. Inch (mm)	Dimension Inch (mm) A	B	Digi-Key Part No.	Price Per Package 100	1,000	Richco Part No.
.9 (22.86)	3.2 (81.28)	3.9 (99.06)	RP701-ND	23.22	139.32	HT-3.9
1.1 (27.94)	4.2 (106.68)	4.9 (124.46)	RP702-ND	25.57	153.43	HT-4.9
1.4 (35.56)	5.2 (132.08)	5.9 (149.86)	RP703-ND	26.09	156.56	HT-5.9

Beaded Ties

• Easy to install and release • Material: Nylon 6/6 • Color: Natural

Fig. 1

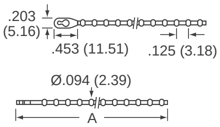


Fig. 2

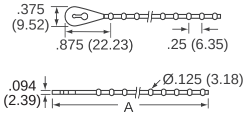
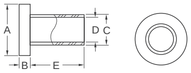


Fig.	Dim "A" (approx.) Inch (mm)	Digi-Key Part No.	Price Per Package 100	1,000	Richco Part No.
1	4.0 (101.60)	RP731-ND	8.95	53.68	BT-4-01-NT
	5.0 (127.00)	RP732-ND	9.89	59.33	BT-5-01-NT
	6.0 (152.40)	RP733-ND	14.62	87.70	BT-6-01-NT
2	8.75 (222.25)	RP734-ND	21.68	130.10	BT-8-01-NT
	10.75 (273.05)	RP735-ND	27.06	162.36	BT-10-01-NT
	12.75 (323.85)	RP736-ND	30.86	185.18	BT-12-01-NT

Molded Nylon Insulators

(MNI Series)

• Use as screw insulators and in many bushing applications • Lightweight • High dielectric strength • Resistant to corrosion and abrasion • Material: Nylon 6/6, RMS-48 • Color: Natural



Screw Size	Approx. Met. Equiv.	Dimensions (Inch) A	B	C	D	E	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
#2	M2.2	.181	.047	.120	.090	.031	RP330-ND	5.92	20.30	121.79	MNI #2-2
		.181	.047	.120	.090	.063	RP331-ND	5.92	20.30	121.79	MNI #2-4
		.181	.047	.120	.090	.093	RP332-ND	5.92	20.30	121.79	MNI #2-6
		.181	.047	.120	.090	.125	RP333-ND	5.92	20.30	121.79	MNI #2-8
		.181	.047	.120	.090	.187	RP334-ND	5.92	20.30	121.79	MNI #2-12
		.181	.047	.120	.090	.250	RP335-ND	5.92	20.30	121.79	MNI #2-16
		.181	.047	.120	.090	.375	RP336-ND	5.92	20.30	121.79	MNI #2-24
#4	M3	.235	.047	.145	.115	.031	RP337-ND	5.29	18.15	108.90	MNI #4-2
		.252	.047	.140	.115	.046	RP338-ND	5.92	20.30	121.79	MNI #4-3
		.235	.047	.145	.115	.063	RP339-ND	5.92	20.30	121.79	MNI #4-4
		.252	.047	.140	.115	.084	RP340-ND	5.92	20.30	121.79	MNI #4-5
		.252	.047	.140	.115	.093	RP341-ND	5.92	20.30	121.79	MNI #4-6
		.235	.047	.145	.115	.125	RP342-ND	5.92	20.30	121.79	MNI #4-8
		.252	.047	.140	.115	.156	RP343-ND	5.92	20.30	121.79	MNI #4-10
		.235	.047	.145	.115	.187	RP344-ND	5.92	20.30	121.79	MNI #4-12
		.252	.047	.140	.115	.250	RP345-ND	5.92	20.30	121.79	MNI #4-16
		.235	.047	.145	.115	.375	RP346-ND	5.92	20.30	121.79	MNI #4-24
#5	M3	.370	.050	.236	.126	.050	RP347-ND	7.10	24.34	146.05	MNI #5.3
#6	M3.5	.290	.047	.170	.140	.031	RP348-ND	5.93	20.32	121.90	MNI #6-2
		.290	.047	.170	.140	.063	RP349-ND	5.93	20.32	121.90	MNI #6-4
		.290	.047	.170	.140	.093	RP350-ND	5.93	20.32	121.90	MNI #6-6
		.290	.047	.170	.140	.125	RP351-ND	5.93	20.32	121.90	MNI #6-8
		.290	.047	.170	.140	.187	RP352-ND	5.93	20.32	121.90	MNI #6-12
		.300	.047	.170	.138	.250	RP353-ND	5.93	20.32	121.90	MNI #6-16
		.290	.047	.170	.140	.375	RP354-ND	5.93	20.32	121.90	MNI #6-24
		.290	.047	.170	.140	.500	RP355-ND	5.93	20.32	121.90	MNI #6-32
#8	M4	.344	.063	.205	.173	.031	RP356-ND	6.22	21.32	127.94	MNI #8-2
		.344	.063	.205	.173	.063	RP357-ND	6.22	21.32	127.94	MNI #8-4
		.344	.063	.205	.173	.093	RP358-ND	6.22	21.32	127.94	MNI #8-6
		.344	.063	.205	.173	.125	RP359-ND	6.22	21.32	127.94	MNI #8-8
		.344	.063	.205	.173	.187	RP360-ND	6.22	21.32	127.94	MNI #8-12
		.344	.063	.205	.173	.250	RP361-ND	6.22	21.32	127.94	MNI #8-16
		.344	.063	.205	.173	.375	RP362-ND	6.22	21.32	127.94	MNI #8-24
		.344	.063	.205	.173	.500	RP363-ND	6.22	21.32	127.94	MNI #8-32
#10	M5	.399	.063	.260	.200	.031	RP364-ND	6.47	22.19	133.13	MNI #10-2
		.399	.063	.260	.200	.063	RP365-ND	6.47	22.19	133.13	MNI #10-4
		.399	.063	.260	.200	.093	RP366-ND	6.47	22.19	133.13	MNI #10-6
		.399	.063	.260	.200	.125	RP367-ND	6.47	22.19	133.13	MNI #10-8
		.399	.063	.260	.200	.187	RP368-ND	6.47	22.19	133.13	MNI #10-12
		.399	.063	.260	.200	.250	RP369-ND	6.47	22.19	133.13	MNI #10-16
		.399	.063	.260	.200	.375	RP370-ND	6.47	22.19	133.13	MNI #10-24
		.399	.063	.260	.200	.500	RP371-ND	6.47	22.19	133.13	MNI #10-32
1/4	M6	.513	.065	.312	.260	.031	RP376-ND	7.31	25.05	150.30	MNI 1/4-2
		.513	.065	.312	.260	.063	RP377-ND	7.31	25.05	150.30	MNI 1/4-4
		.513	.065	.312	.260	.093	RP378-ND	7.31	25.05	150.30	MNI 1/4-6
		.513	.065	.312	.260	.125	RP379-ND	7.31	25.05	150.30	MNI 1/4-8
		.513	.065	.312	.260	.187	RP380-ND	7.31	25.05	150.30	MNI 1/4-12
		.513	.065	.312	.260	.250	RP381-ND	7.31	25.05	150.30	MNI 1/4-16
		.535	.065	.315	.260	.375	RP382-ND	7.31	25.05	150.30	MNI 1/4-24
		.513	.065	.312	.260	.500	RP383-ND	7.31	25.05	150.30	MNI 1/4-32
5/16	M8	.620	.063	.360	.320	.031	RP384-ND	7.64	26.18	157.10	MNI 5/16-2
		.620	.063	.360	.320	.063	RP385-ND	7.64	26.18	157.10	MNI 5/16-4
		.620	.063	.360	.320	.093	RP386-ND	7.64	26.18	157.10	MNI 5/16-6
		.620	.063	.360	.320	.125	RP387-ND	7.64	26.18	157.10	MNI 5/16-8
		.620	.063	.360	.320	.187	RP388-ND	7.64	26.18	157.10	MNI 5/16-12
		.620	.063	.360	.320	.250	RP389-ND	7.64	26.18	157.10	MNI 5/16-16
		.620	.063	.360	.320	.375	RP390-ND	7.64	26.18	157.10	MNI 5/16-24

Wire Ties and Accessories

Fig. 1

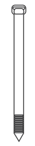


Fig. 2

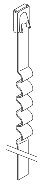


Fig. 3

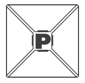


Fig. 4

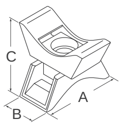


Fig. 5

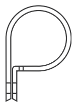


Fig. 6

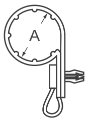


Fig. 7

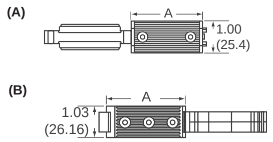


Fig. 8

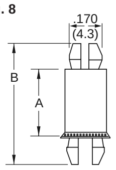


Fig. 9

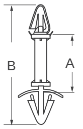


Fig. 10

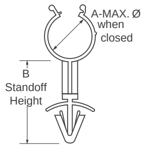


Fig. 11

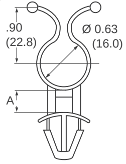


Fig. 12

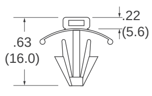


Fig. 13

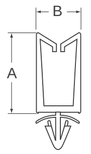


Fig. 14

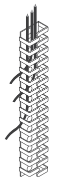


Fig.	Min. #'s Loop Tensile Strength	Length Inch (mm)	Width Inch (mm)	Max. Bundle Diameter Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
PAN-TY® Clamp Tie With Mounting Hole — Nylon								
1	18	4.3 (109.2)	0.100 (2.5)	0.75 (19.1)	298-1000-ND	100	30.27	PLC1M-S4-C
	40	6.1 (154.9)	0.135 (3.4)	1.25 (31.8)	298-1001-ND		30.43	PLC1.5I-S8-C
	50	7.9 (200.7)	0.190 (4.8)	1.84 (46.7)	298-1002-ND		31.89	PLC2S-S10-C
	50	12.0 (304.8)	0.190 (4.8)	3.00 (76.2)	298-1003-ND		73.65	PLC3S-S10-C
	50	15.0 (381.0)	0.190 (4.8)	4.00 (101.6)	298-1004-ND		83.24	PLC4S-S10-C
PAN-TY® Clamp Tie With Mounting Hole — Weather Resistant — Black								
1	18	4.3 (109.2)	0.100 (2.5)	0.75 (19.1)	298-1005-ND	100	53.39	PLC1M-S4-C0
	40	6.1 (154.9)	0.135 (3.4)	1.25 (31.8)	298-1006-ND		38.46	PLC1.5I-S8-C0
	50	7.9 (200.7)	0.190 (4.8)	1.84 (46.7)	298-1007-ND		40.05	PLC2S-S10-C0
	50	12.0 (304.8)	0.190 (4.8)	3.00 (76.2)	298-1008-ND		85.37	PLC3S-S10-C0
	50	15.0 (381.0)	0.190 (4.8)	4.00 (101.6)	298-1009-ND		96.27	PLC4S-S10-C0
PAN-TY® Cable Tie — Nylon								
1	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1016-ND	100	12.50	PLT.6SM-C
	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1017-ND	1,000	26.00	PLT.6SM-M
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1018-ND	100	13.08	PLT.7M-C
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1019-ND	1,000	24.72	PLT.7M-M
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1020-ND	100	14.06	PLT1M-C
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1021-ND	1,000	28.23	PLT1M-M
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1022-ND	100	16.27	PLT1.5I-C
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1023-ND	1,000	43.17	PLT1.5I-M
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1024-ND	100	17.61	PLT1.5M-C
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1025-ND	1,000	41.39	PLT1.5M-M
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1026-ND	100	24.53	PLT2I-C
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1027-ND	1,000	55.53	PLT2I-M
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1028-ND	100	19.58	PLT2M-C
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1029-ND	1,000	42.03	PLT2M-M
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1030-ND	100	20.56	PLT2S-C
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1031-ND	1,000	58.41	PLT2S-M
	40	11.4 (289.6)	0.145 (3.7)	3.00 (76.2)	298-1032-ND	100	30.24	PLT3I-C
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1033-ND	100	41.52	PLT3S-C
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1034-ND	1,000	153.62	PLT3S-M
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1035-ND	100	47.26	PLT4S-C
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1036-ND	1,000	173.30	PLT4S-M
PAN-TY® Cable Tie — Weather Resistant — Black								
1	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1037-ND	100	17.21	PLT.6SM-C0
	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1038-ND	1,000	37.09	PLT.6SM-M0
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1039-ND	1,000	34.19	PLT.7M-M0
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1040-ND	100	18.26	PLT1M-C0
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1041-ND	1,000	43.80	PLT1M-M0
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1042-ND	100	20.02	PLT1.5I-C0
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1043-ND	1,000	58.89	PLT1.5I-M0
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1044-ND	100	20.26	PLT1.5M-C0
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1045-ND	1,000	59.49	PLT1.5M-M0
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1046-ND	100	29.50	PLT2I-C0
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1047-ND	1,000	76.86	PLT2I-M0
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1048-ND	100	26.04	PLT2M-C0
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1049-ND	1,000	63.16	PLT2M-M0
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1050-ND	100	21.97	PLT2S-C0
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1051-ND	1,000	65.22	PLT2S-M0
	40	11.4 (289.6)	0.145 (3.7)	3.00 (76.2)	298-1052-ND	100	40.41	PLT3I-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1053-ND	100	44.50	PLT3S-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1054-ND	1,000	182.54	PLT3S-M0
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1055-ND	100	49.56	PLT4S-C0
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1056-ND	1,000	195.81	PLT4S-M0
BARB-TY® Cable Tie — Nylon Tie With Metal Clip								
1	18	4.0 (101.6)	0.095 (2.4)	0.90 (22.9)	298-1063-ND	100	14.06	BT1M-C
	40	6.1 (154.9)	0.141 (3.6)	1.50 (38.1)	298-1064-ND	100	16.27	BT1.5I-C
	40	8.0 (203.2)	0.141 (3.6)	2.00 (50.8)	298-1065-ND	100	24.53	BT2I-C
	40	11.1 (281.9)	0.141 (3.6)	3.00 (76.2)	298-1066-ND	100	30.24	BT3I-C
	40	14.3 (363.2)	0.141 (3.6)	4.00 (101.6)	298-1067-ND	100	42.25	BT4I-C

Fig.	Min. #'s Loop Tensile Strength	Length Inch (mm)	Width Inch (mm)	Max. Bundle Diameter Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
1	50	8.0 (203.2)	0.185 (4.7)	2.00 (50.8)	298-1068-ND	100	20.56	BT2S-C
	50	11.2 (284.5)	0.185 (4.7)	3.00 (76.2)	298-1069-ND	100	41.52	BT3S-C
	50	14.4 (365.8)	0.185 (4.7)	4.00 (101.6)	298-1070-ND	100	47.26	BT4S-C
	18	6.1 (154.9)	0.095 (2.4)	1.50 (38.1)	298-1071-ND	100	17.61	BT1.5M-C
	18	7.7 (195.6)	0.095 (2.4)	2.00 (50.8)	298-1072-ND	100	19.58	BT2M-C
	18	14.0 (355.6)	0.095 (2.4)	4.00 (101.6)	298-1074-ND	100	28.54	BT4M-C
	120	18.1 (459.7)	0.275 (7.0)	5.00 (127.0)	298-1075-ND	50	41.60	BT5LH-L
	120	21.2 (538.5)	0.275 (7.0)	6.00 (152.4)	298-1076-ND	50	52.21	BT6LH-L
	120	24.4 (619.8)	0.275 (7.0)	7.00 (177.8)	298-1077-ND	50	58.50	BT7LH-L
	120	27.5 (698.5)	0.275 (7.0)	8.00 (203.2)	298-1078-ND	50	70.85	BT8LH-L
	120	30.7 (799.8)	0.275 (7.0)	9.00 (228.6)	298-1079-ND	50	73.41	BT9LH-L
BARB-TY® Cable Tie — Weather Resistant Tie With Metal Clip — Black								
1	18	4.0 (101.6)	0.095 (2.4)	0.90 (22.9)	298-1080-ND	100	18.26	BT1M-C0
	40	6.1 (154.9)	0.141 (3.6)	1.50 (38.1)	298-1081-ND	100	20.02	BT1.5I-C0
	40	8.0 (203.2)	0.141 (3.6)	2.00 (50.8)	298-1082-ND	100	29.48	BT2I-C0
	40	11.1 (281.9)	0.141 (3.6)	3.00 (76.2)	298-1083-ND	100	40.41	BT3I-C0
	40	14.3 (363.2)	0.141 (3.6)	4.00 (101.6)	298-1084-ND	100	52.67	BT4I-C0
	50	8.0 (203.2)	0.185 (4.7)	2.00 (50.8)	298-1085-ND	100	21.97	BT2S-C0
	50	11.2 (284.5)	0.185 (4.7)	3.00 (76.2)	298-1086-ND	100	44.50	BT3S-C0
	50	14.4 (365.8)	0.185 (4.7)	4.00 (101.6)	298-1087-ND	100	49.56	BT4S-C0
	18	6.1 (154.9)	0.095 (2.4)	1.50 (38.1)	298-1088-ND	100	20.26	BT1.5M-C0
	18	7.7 (195.6)	0.095 (2.4)	2.00 (50.8)	298-1089-ND	100	24.90	BT2M-C0
	18	10.9 (276.9)	0.095 (2.4)	3.00 (76.2)	298-1090-ND	100	26.94	BT3M-C0
	18	14.0 (355.6)	0.095 (2.4)	4.00 (101.6)	298-1091-ND	100	36.42	BT4M-C0
	120	18.1 (459.7)	0.275 (7.0)	5.00 (127.0)	298-1092-ND	50	47.74	BT5LH-L0
	120	21.2 (538.5)	0.275 (7.0)	6.00 (152.4)	298-1093-ND	50	59.98	BT6LH-L0
	120	24.4 (619.8)	0.275 (7.0)	7.00 (177.8)	298-1094-ND	50	67.74	BT7LH-L0
	120	27.5 (698.5)	0.275 (7.0)	8.00 (203.2)	298-1095-ND	50	82.29	BT8LH-L0
	120	30.7 (779.8)	0.275 (7.0)	9.00 (228.6)	298-1096-ND	50	90.81	BT9LH-L0
PAN-TY® Releasable Tie — Nylon								
1	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1057-ND	100	37.40	PRT2S-C
		11.5 (292.1)		3.00 (76.2)	298-1058-ND		65.17	PRT3S-C
		14.5 (368.3)		4.00 (101.6)	298-1059-ND		77.01	PRT4S-C
PAN-TY® Releasable Tie — Weather Resistant — Black								
1	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1060-ND	100	39.62	PRT2S-C0
		11.5 (292.1)		3.00 (76.2)	298-1061-ND		72.90	PRT3S-C0
		14.5 (368.3)		4.00 (101.6)	298-1062-ND		84.56	PRT4S-C0
PAN-TY® Marker Tie With Write On Area — Nylon								
1	18	4.3 (109.2)	0.098 (2.5)	0.87 (22.1)	298-1010-ND	100	31.25	PLF1M-C
	18	3.9 (99.1)		0.75 (19.1)	298-1011-ND		32.46	PLM1M-C
	50	7.4 (188.0)		2.00 (50.8)	298-1012-ND		61.39	PLM2S-C
PAN-TY® Marker Tie With Write On Area — Weather Resistant — Black								
1	18	4.3 (109.2)	0.098 (2.5)	0.87 (22.1)	298-1013-ND	100	43.05	PLF1M-C0
	18	3.9 (99.1)		0.75 (19.1)	298-1014-ND		42.23	PLM1M-C0
	50	7.4 (188.0)		2.00 (50.8)	298-1015-ND		74.77	PLM2S-C0
Cushion Sleeve For Use With Metal Locking Tie — Black								
—	—	100ft. (30.48m)	0.330 (8.0)	—	298-1103-ND	1 Reel	172.76	PCSS-B-CR
	—		0.470 (12.0)	—	298-1104-ND		212.09	PCSH-B-CR
TAK TY® (VELCRO®) Easy Release And Reuse Brand Cable Tie — Black*								
1	50	12.0 (304.8)	0.75 (19.1)	3.00 (76.2)	298-1108-ND	10	17.00	HLC3S-X0
	50	18.0 (457.2)	0.75 (19.1)	5.00 (127.0)	298-1109-ND	10	20.84	HLC5S-X0
	50	6.0 (152.4)	0.75 (19.1)	1.50 (38.1)	298-1110-ND	10	10.24	HLS1.5S-X0
	50	12.0 (304.8)	0.75 (19.1)	3.00 (76.2)	298-1111-ND	10	17.08	HLS3S-X0
	50	18.0 (457.2)	0.75 (19.1)	5.00 (127.0)	298-1112-ND	10	24.89	HLS5S-X0
	40	8.0 (203.2)	0.50 (12.7)	1.90 (48.3)	298-1113-ND	10	11.81	HLT2I-X0
	40	12.0 (304.8)	0.50 (12.7)	3.20 (81.3)	298-1114-ND	10	15.34	HLT3I-X0
	50	15ft. (4.572m)	0.75 (19.1)	Various	298-1115-ND	1 Reel	16.37	HLS-15R0

* VELCRO is a registered trademark of the Velcro Companies

(Continued)

Wire Ties and Accessories *(Cont.)*

Fig.	Max. Bundle Diameter Inch (mm)	Length Inch (mm)	Thickness & Width In. (mm)	Loop Tensile Strength Lbs.	Recommend Installation Tools	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Metal Locking Tie — Stainless Steel									
1	1.00 (25.4)	5.0 (127.0)	.010 x .18 (.25 x 4.4)	100	GS4MT, ST2MT or HTMT	298-1100-ND	100	70.96	MLT1S-CP
	2.00 (50.8)	7.9 (200.7)				298-1101-ND		72.59	MLT1S-CP
	4.00 (101.6)	14.2 (360.7)				298-1102-ND		85.19	MLT1S-CP
WAVE-TY™ Superior Grip Stainless Steel Ties									
2	2.70 (70)	10.2 (259)	.010 x.31 (.25 x 7.9)	200 Min.	GS4MT ST2MT or HTMT	298-1330-ND	50	56.97	MLT2.7WH-LP
	4.00 (102)	14.2 (361)				298-1331-ND		61.33	MLT4WH-LP
	6.00 (152)	20.5 (521)				298-1332-ND		91.85	MLT6WH-LP
	8.00 (203)	26.8 (631)				298-1333-ND		118.47	MLT8WH-LP
	10.00 (254)	33.0 (838)				298-1334-ND		145.23	MLT10WH-LP

Fig.	Length Inch (mm)	Width Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Tie Holder With Adhesive — Nylon						
3	0.75 (19.1)	0.75 (19.1)	298-1116-ND	100	76.08	ABMM-A-C
	1.00 (25.4)	1.00 (25.4)	298-1118-ND	100	102.47	ABM100-A-C
	1.12 (28.6)	1.12 (28.6)	298-1268-ND	100	113.98	ABM112-A-C
	1.13 (28.7)	1.13 (28.7)	298-1117-ND	100	104.46	ABMS-A-C
	1.50 (38.1)	1.50 (38.1)	298-1119-ND	50	81.80	ABM3H-A-L

Fig.	Dimensions - Inch (mm) A	B	C	Pull Apart Force	Digi-Key Part No.	Price Each 1	50	100	Panduit Part No.
Swivel Cable Tie Mounts — Weather Resistant Black Nylon									
4	1.64 (41.66)	0.73 (18.54)	1.23 (31.24)	>250 lbs.	298-1307-ND	3.16	2.45	—	TMEH-X2-L0
	0.87 (22.10)	0.62 (15.75)	0.75 (19.05)	>120 lbs.	298-1308-ND	2.64	—	2.05	TM3-X2-C0

Fig.	Width Inch (mm)	Max. Bundle Dia. Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Cable Clamp — Nylon						
5	0.4 (9.5)	0.13 (3.2)	298-1120-ND	100	12.09	CCS12-S8-C
		0.25 (6.4)	298-1121-ND		12.57	CCS25-S8-C
		0.38 (9.7)	298-1122-ND		13.60	CCS38-S8-C
		0.50 (12.7)	298-1123-ND		14.44	CCS50-S8-C

Fig.	Dimension A Inch	Digi-Key Part No.	Price Each 1	100	500	Panduit Part No.
PAN-CLAMP™ Heavy Duty Fixed Diameter Clamps						
6	3/8	298-1299-ND	.60	.47	.38	PC038-H25D-C0
	1/2	298-1300-ND	.65	.51	.41	PC050-H25D-C0
	5/8	298-1301-ND	.70	.55	.45	PC062-H25D-C0
	3/4	298-1302-ND	.76	.60	.48	PC075-H25D-C0
	7/8	298-1303-ND	.81	.64	.51	PC087-H25D-C0
	1	298-1304-ND	.87	.68	.55	PC100-H25D-C0
	1 1/8	298-1305-ND	.92	.72	.58	PC112-H25D-C0
	1 1/4	298-1306-ND	.97	.77	.61	PC125-H25D-C0

Fig.	Max. Cable Width Inch (mm)	Mounting Method	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	50	100	Panduit Part No.
Type FCM Adhesive Mount For Stack Height up to .17" (4.3mm) - Nylon, Gray								
7A	1.0 (25.4)	Adh. Foam Tape	1.21 (30.7)	298-1309-ND	1.16	—	.91	FCM1-A-C14
	1.0 (25.4)	#6 Screw	1.21 (30.7)	298-1314-ND	1.11	—	.87	FCM1-S6-C14
	1.2 (30.5)	Adh. Foam Tape	1.37 (34.8)	298-1310-ND	1.44	—	1.13	FCM1.2-A-C14
	1.2 (30.5)	#6 Screw	1.37 (34.8)	298-1315-ND	1.19	—	.93	FCM1.2-S6-C14
	2.0 (50.8)	Adh. Foam Tape	2.22 (56.3)	298-1311-ND	1.29	—	1.01	FCM2-A-C14
	2.0 (50.8)	#6 Screw	2.22 (56.3)	298-1316-ND	1.23	—	.97	FCM2-S6-C14
	3.25 (82.6)	Adh. Foam Tape	3.38 (85.9)	298-1312-ND	1.95	1.53	—	FCM3.25-A-L14
	3.25 (82.6)	#6 Screw	3.38 (85.9)	298-1317-ND	1.68	1.32	—	FCM3.25-S6-L14
Type FCH Adhesive Mount For Stack Height up to .25" (6.3mm) - Nylon, TELCO Gray								
7B	2.00 (50.8)	Adh. Foam Tape	2.5 (63.5)	298-1313-ND	2.01	—	1.56	FCH2-A-C14
		#6 Screw		298-1318-ND	1.81	—	1.41	FCH2-S6-C14

Fig.	Dimension A Inch (mm)	Diameter Inch (mm)	Dimension B Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Circuit Board Post — Nylon							
8	0.125 (3.2)	0.19 (4.7)	0.4 (10.3)	298-1128-ND	100	22.63	CBP12-C
	0.250 (6.4)		0.5 (13.5)	298-1129-ND		23.18	CBP25-C
	0.375 (9.5)		0.7 (16.6)	298-1130-ND		23.61	CBP37-C
	0.500 (12.7)		0.8 (19.8)	298-1131-ND		24.04	CBP50-C
	0.750 (19.1)		1.0 (26.2)	298-1132-ND		25.84	CBP75-C
	1.000 (25.4)		1.3 (32.5)	298-1133-ND		27.77	CBP100-C
Lock Circuit Board Support .156” / .187” (3.96 / 4.750mm) Diameter — Nylon							
9	0.25 (6.4)	0.156 / 0.187 (3.960 /4.750)	0.980 (24.900)	298-1134-ND	100	21.41	CBLS25-C
	0.50 (12.7)		1.230 (31.200)	298-1135-ND		24.12	CBLS50-C
	0.75 (19.1)		1.480 (37.500)	298-1136-ND		27.39	CBLS75-C

Fig.	Dim. A - Dia. Inch (mm)	Dim. B - Length Inch (mm)	Hole Diameter Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Wire Standoff — Nylon							
10	0.25 (6.4)	0.25 (6.4)	0.187 - 0.192 (4.7 to 4.9)	298-1124-ND	100	33.20	WS25-25-C
	0.50 (12.7)	0.25 (6.4)		298-1125-ND		34.82	WS25-50-C
	0.25 (6.4)	0.48 (12.2)		298-1126-ND		38.65	WS50-25-C
	0.48 (12.2)	0.48 (12.2)		298-1127-ND		40.63	WS50-50-C

Fig.	Dim. A Inch (mm)	Material/ Color	Mounting Method	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Twister Push Mounts							
11	—	Nylon, Natural	For Circuit Boards or Chassis: .025” - .105” (0.64 - 2.67) thick in a .187” (4.7) dia. mtg. hole	298-1323-ND	100	19.69	TPM-16-C
	0.20 (5.0)			298-1324-ND		21.44	TPM5-16-C
	0.39 (10.0)			298-1325-ND		22.80	TPM10-16-C
	0.59 (15.0)			298-1326-ND		24.63	TPM15-16-C
	0.79 (20.0)			298-1327-ND		25.35	TPM20-16-C
	0.98 (25.0)			298-1328-ND		25.94	TPM25-16-C
	1.18 (30.0)			298-1329-ND		26.47	TPM30-16-C

Fig.	Min. #’s Loop Tensile Strength	Length Inch (mm)	Diameter Inch (mm)	Hole Dia. Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Push Cable Tie Mount, STD — Natural								
12	18-50	0.6 (16.0)	0.230 (5.8)	0.25 (6.4)	298-1143-ND	100	41.08	PWMS-H25-C

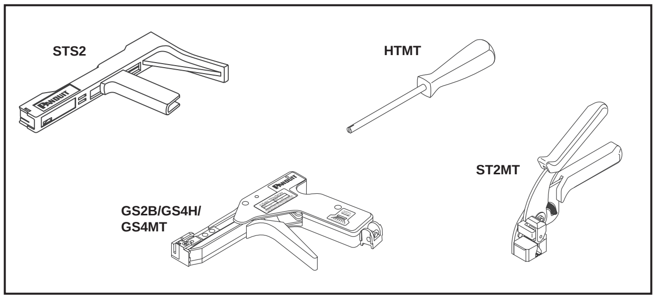
Fig.	Max. Bundle Dia. - Inch (mm)	Dimensions A	B	Mat’l/ Color	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Push Mount Wire Saddle (Vertical)								
13	.42 x .18 (11 x 5)	.58 (14.7)	.60 (15.2)	Nylon Natural	298-1319-ND	100	10.01	VWS4218-C
	.42 x .40 (11 x 10)	.78 (19.8)			298-1320-ND		10.36	VWS4238-C
	.42 x .74 (11 x 19)	1.14 (29)			298-1321-ND		15.11	VWS4274-C
	.42 x 1.05 (11 x 27)	1.45 (36.8)			298-1322-ND		16.37	VWS42105-C

Fig.	Min. #’s Loop Tensile Strength	Tie Length Inch (mm)	Base Width Inch (mm)	Base Length Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Mount/Tie Combination — Natural								
1 & 3	50	7.3 (185.0)	0.190 (4.8)	1.85 (47.0)	298-1144-ND	25	39.24	PLA2S-A-Q

Length Feet (meters)	Diameter Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Spiral Wrap — Natural					
100 (30.48)	0.125 (3.2)	298-1137-ND	1 Reel	37.02	T12F-C
	0.250 (6.4)	298-1138-ND		49.97	T25F-C
	0.500 (12.7)	298-1139-ND		136.20	T50F-C
	0.750 (19.1)	298-1140-ND		165.90	T75F-C
Corrugated Loom Tubing — Black					
100 (30.48)	0.250 (6.4)	298-1141-ND	1 Reel	33.33	CLT25F-C20
	0.500 (12.7)	298-1142-ND		41.70	CLT50F-C20

Length Feet (meters)	Width Inch (mm)	Height Inch (mm)	Panel Thickness Inches (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Grommet Edging -— Natural							
100 (30.48)	0.106 (2.7)	0.12 (3.0)	.026 (.7) - .036 (.9)	298-1145-ND	1 Reel	30.45	GEE36F-C
	0.131 (3.3)	0.16 (4.1)	.036 (.9) - .062 (1.6)	298-1146-ND		32.40	GEE62F-C
	0.131 (3.3)	0.16 (4.1)	.036 (.9) - .062 (1.6)	298-1147-ND		43.74	GEE62FR-C
	0.169 (4.3)	0.19 (4.7)	.62 (1.6) - .099 (2.5)	298-1148-ND		55.64	GEE99FR-C

Fig.	Duct External Dim.- B x H Dim. B x H - Inch (mm)	Std. Length Inch (mm)	Tape Width Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Panduit Part No.
PANDUCT® Type FL - Flexible Wiring Duct w/Adhesive Tape Halogen-Free Polypropoylene Material - UL94-O Flammablity Rating								
14	0.49 x 0.49 (12.5 x 12.5)	19.7 (500)	.24 (25)	298-1335-ND	5.72	4.59	4.07	FL12X12GR-A
	0.98 x 0.98 (25 x 25)		.58 (14.7)	298-1336-ND	8.24	7.41	6.57	FL25X25GR-A
	1.97 x 1.97 (50 x 50)		.58 (14.7)x2	298-1337-ND	16.90	13.54	12.00	FL50X50GR-A



Description	Digi-Key Part No.	Price Each	Panduit Part No.
Tools			
Gun Cable Tie Tool - Black Handle, Tensile Strength: ≤ 50 lbs.	298-1097-ND	23.69	STS2
Gun Cable Tie Tool - Black Plastic & Metal Body, Tensile Strength: ≤ 50 lbs.	298-1098-ND	181.60	GS2B
Gun Cable Tie Tool - Red Handle & Metal Body, Tensile Strength: ≤ 50 lbs.	298-1099-ND	311.22	GS4H
Stainless Stl. Locking Tie Tool - Screwdriver Type, For Tension/Coil Tail of Tie	298-1105-ND	17.69	HTMT
Stainless Steel Locking Tie Tool - Ratchet Type, To Control Tension & Cutoff	298-1106-ND	296.28	ST2MT
Stainless Steel Locking Tie Tool - Gun Type	298-1107-ND	709.08	GS4MT

Thermal Transfer Printer and Labels

Handheld Thermal Transfer Printer – LS6

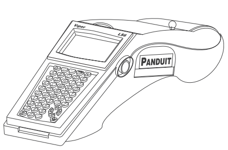


Fig. 1

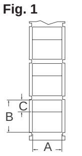


Fig. 2

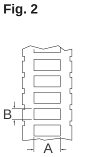


Fig. 3

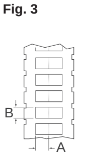
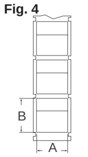


Fig. 4



Description	Digi-Key Part No.	Roll Size	Price/ Pkg.	Panduit Part No.
VIPER™ LS6 Printer and Accessories				
Includes Printer, LS6-RWBLK Ribbon, Battery Pack, AC Adapter/Battery Charger, Hardside Case, Operator's Manual	298-1228-ND	1	798.00	LS6-KIT
Wax Ribbon, Black, 2"x100', for use with Self-Laminating and Heat Shrink Markers Listed Below	298-1230-ND	1	21.11	LS6-RWBLK
Resin Ribbon, Black 2"x100', for use with Component Labels Listed Below	298-1229-ND	1	21.11	LS6-RRBLK
Thermal Transfer Hybrid Ribbon, Black, 4.33" x 299', for use with all Panduit Thermal Transfer Materials	298-4001-ND	1	41.53	TTRH-BL
Replacement Battery Pack	298-1227-ND	1	95.10	LS6-BP
Replacement AC Adapter/Battery Charger	298-1226-ND	1	93.37	LS6-ACS
Pan-Mark for Windows Labeling Software on CD-ROM	298-4000-ND	1	329.15	PROG-WIN2CD
Includes ViperLink Software (CD) and 9 Pin Serial Cable for Connecting LS6 to PC	298-4002-ND	1	44.61	LS6-PCKIT
LS6 Cleaning Kit	298-4003-ND	1	12.97	LS6-CLN

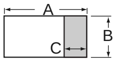
Thermal Transfer Labels

Fig.	Label Size A x B x C (In.)	Cable O.D. Range (In.)	For THHN Cable Size	Digi-Key Part No.	Roll Size	Price/ Pkg.	Panduit Part No.
Self-Laminating Wire Markers – Vinyl							
1	0.50 x 0.75 x 0.38	0.12	12 AWG	298-1261-ND	500	27.86	TWS-6V
	0.50 x 1.00 x 0.38	0.12 – 0.20	12-10 AWG	298-1259-ND	400	29.71	TWS-4V
	0.50 x 1.25 x 0.50	0.16 – 0.24	8 AWG	298-1255-ND	350	36.37	TWS-1V
	1.00 x 0.75 x 0.38	0.12	12 AWG	298-1262-ND	250	24.38	TWS-7V
	1.00 x 1.00 x 0.38	0.12 – 0.20	12-10 AWG	298-1260-ND	250	26.78	TWS-5V
	1.00 x 1.25 x 0.50	0.16 – 0.24	8 AWG	298-1256-ND	250	34.37	TWS-2V
	1.00 x 2.50 x 0.75	0.24 – 0.56	6 AWG 2/0	298-1252-ND	100	20.53	TWS-10V
	1.50 x 1.25 x 0.50	0.16 – 0.24	8 AWG	298-1257-ND	250	35.31	TWS-3V
	1.50 x 2.50 x 0.75	0.24 – 0.56	6 AWG 2/0	298-1253-ND	100	26.67	TWS-11V
	2.00 x 1.50 x 0.50	0.16 – 0.32	8-6 AWG	298-1258-ND	250	45.91	TWS-40V
	1.50 x 4.00 x 1.00	0.32 – 0.96	4 AWG	298-4005-ND	100	31.86	TWS-13V

Fig.	Label Size A x B (In.)	Cable O. D. Range (In.)	For THHN Cable Size	Digi-Key Part No.	Roll Size	Price/ Pkg.	Panduit Part No.
Heat Shrink Wire Markers – 3:1 Flattened White Polyolefin							
2	1.00 x 0.25	0.04 – 0.13	18-12 AWG	298-1246-ND	100	35.19	THSW-2
	1.00 x 0.34	0.06 – 0.18	18-10 AWG	298-1251-ND	100	39.19	THSW-7
	1.00 x 0.44	0.08 – 0.25	18-8 AWG	298-1248-ND	100	47.48	THSW-4
	1.00 x 0.84	0.17 – 0.50	8-1 AWG	298-1249-ND	100	80.97	THSW-5
3	0.50 x 0.25	0.04 – 0.13	18-12 AWG	298-1245-ND	200	35.19	THSW-1
	0.50 x 0.34	0.06 – 0.18	18-10 AWG	298-1250-ND	200	39.19	THSW-6
	0.50 x 0.44	0.08 – 0.25	18-8 AWG	298-1247-ND	200	47.48	THSW-3

Fig.	Label Size A x B	Material	Color	Digi-Key Part No.	Roll Size	Price/ Pkg.	Panduit Part No.
Component Labels							
4	0.65 x 0.20	Polyester	White	298-1243-ND	750	35.57	TC-19Y
	1.00 x 0.38	Polyester	White	298-1240-ND	500	30.66	TC-17Y
	1.00 x 0.50	Polyester	Silver	298-1232-ND	500	37.82	TC-10YS
	1.50 x 0.50	Polyester	White	298-1233-ND	500	34.16	TC-11Y
	2.00 x 0.25	Polyester	White	298-1237-ND	250	32.99	TC-16Y
	1.00 x 0.50	Vinyl Cloth	White	298-1231-ND	500	41.13	TC-10C
	1.00 x 0.75	Vinyl Cloth	White	298-4004-ND	250	25.96	TC-4C

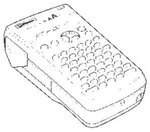
Laser Printable Labels (Functions with most Desktop Laser Printers)



Label Size A x B (In.)	Label Size C - Print Area (In.)	Cable O.D. Range (In.)	For THHN Cable Size	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Laser Self Laminated Wire Markers - White Polyester (Box)							
1.00 x 1.00	0.34	0.11 – 0.21	12-10 AWG	298-1162-ND	2,500	160.21	LJSL4-Y3-2.5
1.00 x 1.33	0.50	0.16 – 0.26	8-6 AWG	298-1163-ND	2,500	190.92	LJSL5-Y3-2.5
1.00 x 3.17	0.97	0.31 – 0.70	4-4/0 AWG	298-1164-ND	1,000	156.77	LJSL6-Y3-1
2.00 x 3.17	1.00	0.32 – 0.69	4-4/0 AWG	298-1169-ND	1,000	197.96	LJSL8-Y3-1
0.50 x 1.50	0.50	0.16 – 0.32	8-6 AWG	298-1174-ND	5,000	190.88	LJSL2-Y3-5
2.00 x 1.50	0.50	0.16 – 0.32	8-6 AWG	298-1175-ND	1,000	209.10	LJSL7-Y3-1

Label Size A x B (In.)	Material	Color	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Laser Component Labels - Polyester (Box)						
1.50 x 0.25	Polyester	White	298-1165-ND	10,000	214.89	PLL-14-Y2-10
1.88 x 0.25	Polyester	White	298-1166-ND	10,000	288.67	PLL-15-Y2-10
3.00 x 0.38	Polyester	White	298-1167-ND	1,000	90.08	PLL-19-Y2-1
0.80 x 0.20	Polyester	White	298-1168-ND	10,000	167.56	PLL-20-Y2-10
0.38 x 0.38	Polyester	White	298-1170-ND	10,000	125.63	PLL-2-Y2-10
0.25 x 0.25	Polyester	White	298-1171-ND	10,000	158.17	PLL-30-Y2-10
0.50 x 0.44	Polyester	White	298-1172-ND	10,000	213.15	PLL-31-Y2-10
0.65 x 0.20	Polyester	White	298-1173-ND	10,000	142.16	PLL-32-Y2-10
0.80 x 0.25	Polyester	White	298-1176-ND	10,000	167.56	PLL-5-Y2-10
1.00 x 0.38	Polyester	White	298-1177-ND	10,000	227.07	PLL-8-Y2-10
1.00 x 0.50	Polyester	White	298-1178-ND	10,000	294.76	PLL-9-Y2-10

LS7 Thermal Transfer Printer and Cassettes



The LS7 Hand-Held Thermal Transfer printer is designed for fast and easy TIA/EIA-606-A compliant labeling.

Features and Benefits: • High quality labels that stay where you put them and won't smear • Fast loading cassettes and simple operation • Label cassette includes both label material and ribbon • Firmware designed specifically to meet data-comm market needs • Advanced programming allows you to specify legend spacing • Label materials developed for use on textured and curved surfaces • Repeat legend function • Advanced alpha and numeric serialization • Store up to 10 label files • Symbol library

Description	Digi-Key Part No.	Price Each	Panduit Part No.
LS7 Printer and Accessories			
Printer Kit: Includes 3/4" Non-Laminated Black/White Cassette, Hardside Carrying Case, Wrist Strap, 6 AA Alkaline Batteries, Label Separator Tool, and Operator's Manual	298-1338-ND	206.75	LS7
120VAC Adapter	298-1347-ND	46.20	LS7-ACS
Cleaning Cassette	298-1348-ND	30.80	LS7-CLN

Application	Width	Length	Color	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 25	Panduit Part No.
Laminated Label Cassettes								
110 Punchdown Blocks, Patch Panels	1/4" (6mm)	26.2' (8m)	Black/White	298-1339-ND	21.02	18.16	16.11	LS7-25-1
			Black/Clear	298-1340-ND	21.02	18.16	16.11	LS7-25-2
Faceplates, Junction Boxes, Patch Panels	3/8" (9mm)	26.2' (8m)	Black/White	298-1341-ND	23.02	19.89	17.65	LS7-38-1
			Black/Clear	298-1342-ND	23.02	19.89	17.65	LS7-38-2
Pathways, Racks, Spaces	1/2" (12mm)	26.2' (8m)	Black/White	298-1343-ND	23.02	19.89	17.65	LS7-50-1
			Black/Clear	298-1344-ND	23.02	19.89	17.65	LS7-50-2
Non-Laminated Label Cassettes								
Cables, Pathways, Racks, Spaces	3/4" (18mm)	26.2' (8m)	Black/White	298-1345-ND	26.03	22.48	19.95	LS7-75NL-1
			Black/Clear	298-1346-ND	26.03	22.48	19.95	LS7-75NL-2

Labels

Fig. 1

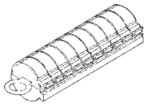
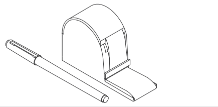


Fig. 2



Standard Package	Legend	No. of Each Legend	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Panduit Part No.
Wire Marker Books							
1 (10 pages)	0-9	45	298-1269-ND	17.69	15.90	14.09	PCMB-1
	A-Z, 0-15, +, -, /	10	298-1270-ND	17.69	15.90	14.09	PCMB-2
	1-45	10	298-1271-ND	17.69	15.90	14.09	PCMB-3
	1, 2, 3	150	298-1272-ND	17.69	15.90	14.09	PCMB-4
	1-15 16-90 A-Z, +, -, /, 0	6 4 2	298-1273-ND	17.69	15.90	14.09	PCMB-8
	1, 2, 3, A, B, C L1, L2, L3, T1, T2, T3	45 30	298-1274-ND	17.69	15.90	14.09	PCMB-9
	1-30	15	298-1275-ND	17.69	15.90	14.09	PCMB-11
	A-Z +, - Blank	15 8, 7 21	298-1276-ND	17.69	15.90	14.09	PCMB-12
	46-90	10	298-1277-ND	17.69	15.90	14.09	PCMB-14
1 (12 pages)	0-9 L1, L2, L3, T1, T2, T3	45 15	298-1278-ND	17.69	15.90	14.09	PCMB-25

Std. Pkg.	Write-on Area Dim. W x L - Inch (mm)	No. of Markers	Overall Size Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Panduit Part No.
Cable Marker Book for Self Laminating Wire Markers								
1 (10 pgs.)	1.00 x 0.75 (25.4x19.1)	60	1.00 x 3.00 (25.4x76.2)	298-1279-ND	22.26	20.00	17.73	PSCB-3
	1.00 x 1.00 (25.4x25.4)	30	1.00 x 5.00 (25.4x127)	298-1280-ND	21.85	19.63	17.40	PSCB-5
	0.50 x 0.63 (12.7x15.9)	180	0.50 x 1.50 (12.7x38.1)	298-1281-ND	22.26	20.00	17.73	PSCB-12
	1.50 x 0.75 (38.1x19.1)	40	1.50 x 3.00 (38.1x76.2)	298-1282-ND	21.85	19.63	17.40	PSCB-13

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Panduit Part No.
Wire Marker Tape Dispensers						
1	0 - 9 Legends in Dispenser, 8" Black	298-1283-ND	35.17	31.73	28.91	PMD-0-9
	Empty Dispenser	298-1294-ND	14.25	12.86	11.72	PMD

Legend	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Panduit Part No.
Refill Wire Marker Tape- 8 Ft. Length						
0	Fits PMD Dispenser 298-1294-ND (sold above)	298-1284-ND	2.07	1.87	1.65	PMDR-0
1		298-1285-ND	2.07	1.87	1.65	PMDR-1
2		298-1286-ND	2.07	1.87	1.65	PMDR-2
3		298-1287-ND	2.07	1.87	1.65	PMDR-3
4		298-1288-ND	2.07	1.87	1.65	PMDR-4
5		298-1289-ND	2.07	1.87	1.65	PMDR-5
6		298-1290-ND	2.07	1.87	1.65	PMDR-6
7		298-1291-ND	2.07	1.87	1.65	PMDR-7
8		298-1292-ND	2.07	1.87	1.65	PMDR-8
9		298-1293-ND	2.07	1.87	1.65	PMDR-9

Fig.	Description	Std. Pkg.	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 25	Panduit Part No.
Dispenser Kit and Tape							
2	With PLDR-1 Tape, Write-on Area 1" x 1.5" (25.4 x 38.1)	1	298-1295-ND	25.80	23.17	20.54	PLD-1
	With PLDR-2 Tape, Write-on Area 1" x 3" (25.4 x 76.2)		298-1296-ND	25.80	23.17	20.54	PLD-2
Refill Blank Tape — Self-Laminated							
—	Write-on Area 1.00 x 0.38 (25.4 x 9.5) Overall-1.00 x 1.50 (25.4 x 38.1)	200/ roll	298-1297-ND	17.95	16.12	14.29	PLDR-1
—	Write-on Area 1.00 x 0.75 (25.4 x 19.1) Overall-1.00 x 3.00 (25.4 x 76.2)	100/ roll	298-1298-ND	17.95	16.12	14.29	PLDR-2

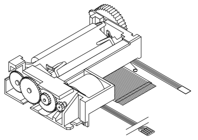
CITIZEN Thermal Printers

THERMAL PRINTERS:
Use a non-impact method for printing. This is accomplished by using chemically treated thermal paper. Chemicals suspended in the paper react to heat generated by the print head to form dots that make up the characters or image. Citizen offers a thermal serial printer and a thermal line printer. The serial printer uses a moving head that prints one character at a time, it is most suited for character printing, although the high speed model does support graphics. Its main benefit is low cost. Line printers have a fixed print head, printing one line at a time. It is suited for both high speed character and graphic printing. Its main benefits are higher definition graphic printing along with fewer moving parts.

INTERFACE BOARDS:
Acts as an interface between user's system and the thermal printer. Monitors temperature and paper status. Controls motor(s) and thermal head energy for optimal printing. Generates built in test pattern. Accepts both simplified Centronics or RS-232C (TTL only) interface.

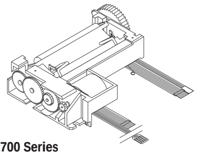
NOTE: CBMA now markets the former Panasonic line of Thermal Printer Mechanisms. Please call Digi-Key for details.

Fig. 1 – Line Printer



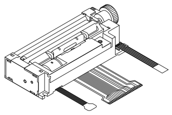
EPL1600 Series
• Compact size, light weight • High resolution (8 dots/mm), high printing speed • Operatable by batteries (4.2 to 8.5 volts) • Low current consumption • Semi-auto paper loading function
Note: Available in 58, 80, and 112mm paper widths

Fig. 2 – Line Printer



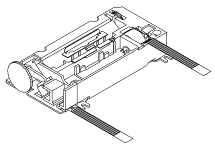
EPL1700 Series
• Compact size, light weight • High resolution (8 dots/mm), high printing speed • Semi-auto paper loading function • Thick (label paper) paper printing possible
Note: Available in 58,80, and 112mm paper widths

Fig. 3 – Miniature Line Printer



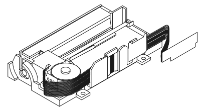
EPL1802S2 Series
• High speed printing • Very small size • Very light weight (40g) • Low power consumption

Fig. 4 – Compact Line Printer



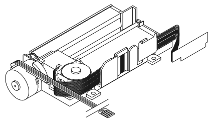
EPL1900 Series
• Compact size • Low weight (55g) • High reliability • Easy maintenance
Note: Available with paper cutter (PT1034-ND)

Fig. 5 – Serial Printer



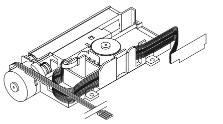
EPT2000L Series
• High speed printing • Uni-directional character printing (L to R) • 8 vertical dots per line • Low noise, less than 55dB • Compact size, lightweight • Single 5 volt power source (battery operation) • Low cost
Note: Available in 58, 80, and 112mm paper widths

Fig. 6 – Serial Printer



EPT2000H Series
• High speed printing • Suitable for graphic printing • Bi-directional character printing • 8 vertical dots per line • Uni-directional graphic printing (L to R) • Low noise, less than 55dB • Compact size, lightweight • Single 5 volt power source (battery operation) • Low cost
Note: Available in 58, 80, and 112mm paper widths

Fig. 7 – High Speed Serial Printer



EPT2214S2H Series
• Character printing only • 8 vertical dots per line • High speed printing 140 cps • High reliability 2 million lines • Compact size lightweight • Single 5 volt power source (battery operation)

Fig.	Print Method	Paper Width	Head Volt	Logic Volt	Print Speed (max)	Char. / line	Head life	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Citizen Part No.
1	Line	58mm	5V	5V	450 dots-line/s max	24/48	5x10^7 pulse/50 km	79x51x20	PT1000-ND	107.72	99.33	92.24	86.43	EPL1601S2
		80mm			400 dots-line/s max	36/72		101x52x20	PT1001-ND	127.76	117.81	109.40	102.51	EPL1602S3
		112mm			360 dots-line/s max	52/104		147x54x20	PT1002-ND	147.80	136.29	126.56	118.59	EPL1603S4
2	Line	60mm	24V	5V	432 dots-line/s max	27/54	5x10^7 pulse/50 km	81x52x20	PT1003-ND	80.16	73.92	68.64	64.32	EPL1701S2
		80mm			576 dots-line/s max	36/72		101x52x20	PT1004-ND	99.37	91.63	85.09	79.73	EPL1702S3
		112mm			864 dots-line/s max	54/108		147x54x20	PT1005-ND	119.41	110.11	102.25	95.81	EPL1703S4
3	Line	58mm	5V	5V	450 dots-line/s max	24/48	1x10^8 pulse/50km	72x32x15	PT1032-ND	120.24	110.88	102.96	96.48	EPL1802S2
4	Line	58mm	5V	5V	300 dots-line/s max	24/36	5x107 pulse/30km	82x41x15.8	PT1033-ND	78.49	72.38	67.21	62.98	EPL1902S2C
								82x41x25	PT1034-ND	75.15	69.30	64.35	60.30	EPL1904S2C
5	Serial	58mm	5V	5V	70cps	24	5x10^5 pulse/50 MCTF	87x43x24	PT1006-ND	61.79	56.98	52.91	49.58	EPT2014S2L
		80mm				32		111x43x24	PT1007-ND	65.13	60.06	55.77	52.26	EPT2019S3L
		112mm				53		143x43x24	PT1008-ND	50.38	46.47	43.15	40.43	EPT2025S4L
6	Serial	58mm	5V	5V	70cps	24	5x105 pulse/50 MCTF	100x43x24	PT1009-ND	71.81	66.22	61.49	57.62	EPT2014S2H
		80mm				32		124x43x24	PT1010-ND	56.23	51.86	48.15	45.12	EPT2019S3H
7	Serial	58mm	5V	5V	140cps	24	2x10^6 pulse/50 MCTF	100x43x24	PT1012-ND	55.76	51.43	47.75	44.75	EPT2214S2H

Interface Boards

EPLR1601/EPLR1701 Series
• Supports EPLR1600/EPLR1700 series • 364 built in character fonts • ASCII JIS C6220 character codes • Automatic loading • Marker detection • Bar code printing (UPC, JAN, EAN, CODE39, ITF, NW7) • Operates on 5 volts EPLR1601, 24 volts for EPLR1701

EPTR2002/EPTR2102 Series
•Supports EPT2000 series (not EPT2214S2H) • 353 built in character fonts • ASCII JIS C6220 character codes • Operates on 5 volts

Description	Digi-Key Part No.	Price Each 1	10	100	250	Citizen Part No.
Interface Board for EPL1600 Series	PT1013-ND	161.57	149.00	138.36	129.65	EPLR1601
Interface Board for EPL1700 Series	PT1014-ND	161.57	149.00	138.36	129.65	EPLR1701
Interface Board for EPL1900 Series	PT1035-ND	208.75	192.50	178.75	167.50	EPLZR1901E
Power Cable for EPLR1601/1701 Interface Boards	PT1017-ND	8.02	7.40	6.87	6.44	EPLSRDSP303
Centronics Cable for EPLR1601/1701 Interface Boards	PT1018-ND	7.52	6.93	6.44	6.03	EPLSRDSP304
RS232 Cable for EPLR1601/1701 Interface Boards	PT1019-ND	5.85	5.39	5.01	4.69	EPLSRDSP305
Centronics Cable for EPTR2000L/H Interface Boards	PT1021-ND	5.90	5.44	5.05	4.74	EPLSRDSP276
EPLR1601 CPU Replacement Chip for User Designed Interfaces	PT1023-ND	24.80	22.87	21.24	19.90	EPLSAR1601
EPLR1701 CPU Replacement Chip for User Designed Interfaces	PT1024-ND	24.80	22.87	21.24	19.90	EPLSAR1701
EPLR1601/1701 Gate-array for User Designed Interfaces	PT1025-ND	10.44	9.63	8.94	8.38	EPLASR1101

NAKAGAWA MFG. (USA), INC. Thermal Paper

Quality thermal paper available in 58, 60, 80 and 112mm paper widths.

SPECIFICATIONS:
Paper core: 12mm
Paper length: 30M
Outer diameter: 55mm
End mark: red, 50cm from end of roll.
Paper weight: 65um
Print life: greater than 5 years when stored in a dark location, 25°C or less, 65% R.H. max.

Description	Digi-Key Part No.	Price Each 1	10	100	250	Nakagawa Part No.
58mm Thermal Printer Paper	PT1028-ND	2.08	1.66	1.46	1.39	EPT-58
60mm Thermal Printer Paper	PT1029-ND	2.43	1.94	1.70	1.62	EPL-60
80mm Thermal Printer Paper	PT1030-ND	2.73	2.18	1.91	1.83	EPT-80
112mm Thermal Printer Paper	PT1031-ND	2.93	2.34	2.05	1.96	EPL-112

P&B tyco Electronics
Authorized Distributor

Magnetic Hydraulic Circuit Breaker W67, W68, W69, W91, W92, W93 Series

Fig. 1

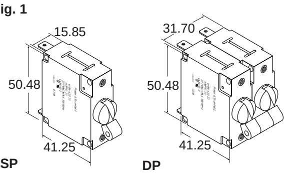
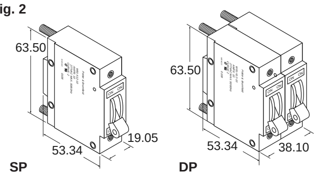


Fig. 2



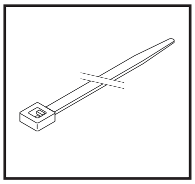
The W6/W9 series are designed for the international market. Magnetic hydraulic breakers are a proven design where the hydraulic delay provides tripping that is highly tolerant to changes in ambient temperatures. W9 units have ON/OFF molded into the area at the base of the toggle.

- **Calibration:** Breakers will hold 100% of rated current. Breakers may trip between 101% and 124% of rated load. Breakers must trip at 125% of rated load and above.
- **Operating Temperature:**
-40°C to +85°C.

Current (A)	Description	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Fig. 1 — White Toggle Actuator						
5	Toggle Type, SP, Instantaneous	PB426-ND	18.19	15.92	14.41	W67-X2Q10-5
10	Toggle Type, SP, Std Delay	PB427-ND	18.19	15.92	14.41	W67-X2Q52-10
15	Toggle Type, SP, Std Delay	PB428-ND	18.19	15.92	14.41	W67-X2Q12-15
10	Toggle Type, DP, Std Delay	PB429-ND	42.22	36.94	33.43	W68-X2Q12-10
15	Toggle Type, DP, Std Delay	PB430-ND	42.22	36.94	33.43	W68-X2Q12-15
20	Toggle Type, DP, Std Delay	PB431-ND	42.22	36.94	33.43	W68-X2Q12-20
10	Toggle Type, 3P, Std Delay	PB432-ND	57.36	50.19	45.41	W69-X2Q12-10
Fig. 2 — Black Toggle Actuator						
10	Toggle Type, SP, Std Delay	PB433-ND	18.19	15.92	14.41	W91-X112-10
20	Toggle Type, SP, Std Delay	PB434-ND	18.19	15.92	14.41	W91-X112-20
1	Toggle Type, DP, Std Delay	PB435-ND	42.22	36.94	33.43	W92-X112-1
15	Toggle Type, DP, Std Delay	PB436-ND	42.22	36.94	33.43	W92-X112-15
20	Toggle Type, DP, Std Delay	PB437-ND	42.22	36.94	33.43	W92-X112-20
30	Toggle Type, DP, Std Delay	PB438-ND	42.22	36.94	33.43	W92-X112-30
50	Toggle Type, DP, Std Delay	PB439-ND	42.22	36.94	33.43	W92-X112-50
50	Toggle Type, 3P, Std Delay	PB440-ND	77.76	68.04	61.56	W93-X112-50

3M

Cable Ties



3M Cable Ties secure wire bundles and harness components quickly, without slipping

The self-locking head, with heavy double teeth on the one piece lock mechanism.

Molded from 6/6 nylon, 3M cable ties are designed to meet a wide range of temperatures from -40°F (-40°C) to 185°F (85°C).

Weather resistant black nylon for indoor and outdoor use and natural nylon for indoor use only.

Length Inch(mm)	Width Inch(mm)	Max Bundle Dia. Inch(mm)	Tensile Lb/Kg	Color	Digi-Key Part No.	Bag Qty Size	Price Each	Digi-Key Part No.	Bag Qty Size	Price Each
Miniature Cable Ties										
4.0 (101.6)	.10 (2.54)	.8 (20.32)	18 (8.16)	Natural	3M101C-ND	100	2.52	3M101M-ND	1,000	13.25
4.0 (101.6)	.10 (2.54)	.8 (20.32)	18 (8.16)	Black	3M101BKC-ND	100	2.77	3M101BKM-ND	1,000	14.76
6.5 (165.1)	.10 (2.54)	1.7 (43.18)	18 (8.16)	Natural	3M110C-ND	100	4.17	3M110M-ND	1,000	24.30
6.5 (165.1)	.10 (2.54)	1.7 (43.18)	18 (8.16)	Black	3M110BKC-ND	100	4.89	3M110BKM-ND	1,000	27.72
8.0 (203.2)	.10 (2.54)	2.2 (55.88)	18 (8.16)	Natural	3M111C-ND	100	5.01	3M111M-ND	1,000	29.16
8.0 (203.2)	.10 (2.54)	2.2 (55.88)	18 (8.16)	Black	3M111BKC-ND	100	5.97	3M111BKM-ND	1,000	34.20
Intermediate Cable Ties										
5.7 (144.78)	.14 (3.56)	1.4 (35.56)	40 (18.14)	Natural	3M102C-ND	100	4.57	3M102M-ND	1,000	26.46
5.7 (144.78)	.14 (3.56)	1.4 (35.56)	40 (18.14)	Black	3M102BKC-ND	100	5.36	3M102BKM-ND	1,000	30.24
Standard Cable Ties										
7.5 (190.5)	.18 (4.57)	1.9 (48.26)	50 (22.68)	Natural	3M103C-ND	100	5.51	3M103M-ND	1,000	32.15
7.5 (190.5)	.18 (4.57)	1.9 (48.26)	50 (22.68)	Black	3M103BKC-ND	100	6.62	3M103BKM-ND	1,000	37.80
11.3 (287.02)	.18 (4.57)	3.1 (78.74)	50 (22.68)	Natural	3M104C-ND	100	10.92	3M106D-ND	1,000	63.36
11.3 (287.02)	.18 (4.57)	3.1 (78.74)	50 (22.68)	Black	3M104BKC-ND	100	11.88	3M106BKD-ND	1,000	69.84
14.5 (368.3)	.18 (4.57)	4.1 (104.14)	50 (22.68)	Natural	3M105C-ND	100	15.18	3M105D-ND	500	63.30
14.5 (368.3)	.18 (4.57)	4.1 (104.14)	50 (22.68)	Black	3M105BKC-ND	100	16.44	3M105BKD-ND	500	72.90
Heavy Duty Cable Ties										
15.1 (383.54)	.30 (7.62)	4.0 (101.6)	120 (54.43)	Natural	3M107HDC-ND	100	26.76	3M105HDD-ND	500	132.30
15.1 (383.54)	.30 (7.62)	4.0 (101.6)	120 (54.43)	Black	3M107HDBKC-ND	100	29.70	3M105HDBKD-ND	500	146.40
Extra Heavy Duty Cable Ties										
21.7 (551.18)	.31 (7.87)	6.5 (165.1)	175 (79.38)	Natural	3M112HDL-ND	50	28.05	—	—	—
21.7 (551.18)	.31 (7.87)	6.5 (165.1)	175 (79.38)	Black	3M112HDBKL-ND	50	29.55	—	—	—
27.7 (703.58)	.35 (8.89)	8.7 (220.98)	175 (79.38)	Natural	3M113HDL-ND	50	39.90	—	—	—
27.7 (703.58	.35 (8.89)	8.7 (220.98)	175 (79.38)	Black	3M113HDBKL-ND	50	42.00	—	—	—
33.1 (840.74)	.34 (8.64)	9.8 (248.92)	175 (79.38)	Natural	3M108HDL-ND	50	51.30	—	—	—
33.1 (840.74)	.34 (8.64)	9.8 (248.92)	175 (79.38)	Black	3M108HDBKL-ND	50	52.56	—	—	—
37.1 (942.34)	.34 (8.64)	11 (279.4)	175 (79.38)	Natural	3M109HDL-ND	50	61.71	—	—	—
37.1 (942.34)	.34 (8.64)	11 (279.4)	175 (79.38)	Black	3M109HDBKL-ND	50	67.86	—	—	—
48 (1219.2)	.35 (8.89)	15 (381)	175 (79.38)	Natural	3M114HDL-ND	50	89.37	—	—	—
48 (1219.2)	.35 (8.89)	15 (381)	175 (79.38)	Black	3M114HDBKL-ND	50	99.30	—	—	—

KEYSTONE ELECTRONICS CORP.

Terminals

Fig. 1

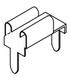


Fig. 2

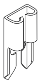


Fig. 3

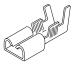


Fig. 4

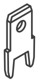


Fig. 5

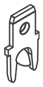
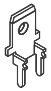


Fig. 6



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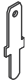


Fig. 8

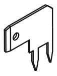
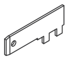


Fig. 9



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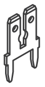


Fig. 11

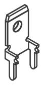


Fig. 12

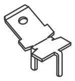


Fig. 13

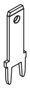


Fig. 14

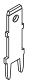


Fig. 15

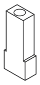


Fig. 16

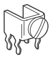


Fig. 17

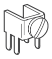


Fig. 18

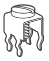


Fig. 19

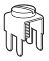


Fig. 20

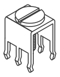


Fig. 21

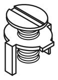


Fig. 22

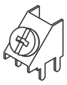


Fig.	Description	Digi-Key Part No.	Pricing 10	Pricing 100
	PC Quick-Fit Tab Terminal			
1	.110" Female, Horizontal	3545K-ND	3.18	25.03
	.110" Female, Horizontal	3549K-ND	3.18	25.03
	.205" Female, Horizontal	3546K-ND	3.31	26.16
	.205" Female, Horizontal	3550K-ND	3.31	26.16
	.250" Female, Horizontal	3547K-ND	3.48	27.40
2	.110" Female, Vertical	3534K-ND	1.51	9.17
	.110" Female, Vertical	3544K-ND	1.51	9.17
	.205" Female, Vertical	3525K-ND	1.51	9.17
	.250" Female, Vertical	3528K-ND	1.51	9.17
	.187" Female, Vertical	3548K-ND	2.81	23.38
2	.187" Female, Vertical	3551K-ND	2.81	23.38
2	.205" Quick-Fit Vert Terminal	3522K-ND	1.51	9.22
3	.110" Female, 18-22 Gage	1252K-ND	1.16	9.06
3	.187" Female, 16-22 Gage	1264K-ND	2.78	21.83
3	.205" Female, 16-20 Gage	4469K-ND	3.82	30.17
3	.250" Female, 16-20 Gage	4470K-ND	2.11	16.68
4	.205" Male, .020 Brass, Tin Plate, .046 Diameter	1286K-ND	.65	5.15
4	.205" Male, .032 Brass, Tin Plate, .052 Diameter	1213K-ND	.70	6.08
5	.205" Male, .020 Brass, Tin Plate, .046 Diameter	1286-STK-ND	.65	3.56
5	.205" Male, .032 Brass, Tin Plate, .052 Diameter	1213-STK-ND	.70	3.83
6	.187" Male, .020 Brass, Tin Plate, .043 Diameter	4900K-ND	1.06	8.35
4	.187" Male, .020 Brass, Tin Plate, .046 Diameter	1285K-ND	.62	4.94
4	.187" Male, .032 Brass, Tin Plate, .052 Diameter	1212K-ND	.67	5.97
5	.187" Male, .020 Brass, Tin Plate, .046 Diameter	1285-STK-ND	.62	4.94
5	.187" Male, .032 Brass, Tin Plate, .052 Diameter	1212-STK-ND	.67	5.97
7	.110" Male, .020 Brass, Tin Plate, .046 Diameter	1267K-ND	.80	6.38
7	.110" Male, .032 Brass, Tin Plate, .052 Diameter	1211K-ND	.84	7.01
8	.110" Male, .020 Brass, Tin Plate, .046 Diameter	4903K-ND	1.66	13.09
8	.110" Male, .032 Brass, Tin Plate, .052 Diameter	4906K-ND	1.70	13.18
8	.187" Male, .020 Brass, Tin Plate, .046 Diameter	4904K-ND	1.59	12.56
8	.187" Male, .032 Brass, Tin Plate, .052 Diameter	4907K-ND	1.63	12.67
8	.250" Male, .032 Brass, Tin Plate, .056 Diameter	4966K-ND	1.16	7.00
8	.250" Male, .032 Brass, Tin Plate, .052 Diameter	1266K-ND	1.19	7.21
9	.250" Male, .032 Brass, Tin Plate, .106 Diameter	1265K-ND	1.61	9.17
4	.250" Male, .032 Brass, Tin Plate, .052 Diameter	1287K-ND	.76	6.08
5	.250" Male, .032 Brass, Tin Plate, .052 Diameter	1287-STK-ND	.76	6.08
10	.110"/.250" Male, .032 Brass, Tin Plate, .052 Diameter	1282K-ND	.76	6.08
6	.250" Male, .032 Brass, Tin Plate, .067 Diameter	4901K-ND	1.06	8.35
11	.250" Male, .032 Brass, Tin Plate, .067 Diameter	4902K-ND	1.06	8.35
12	.250" Male, .032 Brass, Tin Plate, .052 Diameter	4908K-ND	2.25	17.81
13	.250" Male, .032 Brass, Tin Plate, .052 Diameter	1289K-ND	1.18	6.18
13	.250" Male, .032 Brass, Tin Plate, .052 Diameter	1289-STK-ND	1.65	9.01
14	.250" Male, .032 Brass, Tin Plate, .052 Diameter	1281K-ND	1.87	9.68
15	.250" Quick-Fit Vinyl Boot, Clear	4471K-ND	.85	6.80

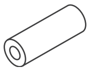
Fig.	Description	Digi-Key Part No.	Pricing 10	Pricing 100
15	.250" Quick-Fit Vinyl Boot, Red	4472K-ND	.85	6.80
	.250" Quick-Fit Vinyl Boot, Blue	4473K-ND	.85	6.80
	.250" Quick-Fit Vinyl Boot, Yellow	4474K-ND	.85	6.80
—	Terminal Hand Insertion Tool	1288K-ND	14.91 each	
	MT Screw Terminal			
16	Snap-In PC Horizontal	7690K-ND	—	21.11
16	Snap-In PC Horizontal, Captivated	7692K-ND⋆	—	25.02
17	PC Horizontal	8190K-ND	—	19.67
17	PC Horizontal, Captivated	7700K-ND⋆	—	21.73
18	Snap-In PC Vertical	7691K-ND	—	20.70
18	Snap-In PC Vertical, Captivated	7693K-ND⋆	—	23.79
19	PC Vertical	8191K-ND	—	19.36
19	PC Vertical, Captivated	7701K-ND⋆	—	22.35
20	Terminal PC Vertical Heavy Duty	8196K-ND	—	36.16
21	Terminal Insert 10/32 Thread Captivated	1202K-ND	7.54	59.25
21	Screw Terminal Insert 10/32	1299K-ND	7.54	59.25
22	Screw Supplied Unassembled	8189K-ND	3.31	21.22
22	Screw Installed and Captivated	7702K-ND	3.74	23.27

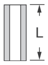
⋆ Screw Installed and Captivated

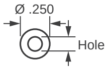
Round Clear Spacers (Non Threaded)

Materials: **Brass:** Nickel Plate (QQ-N-290) • **Aluminum:** Iridite Finish (MIL-C-5541)

Clearance Hole: • .120" for #4 Screw • .140 for #6 Screw • .171 for #8 Screw







Screw (Hole)	"L" Length (Inch)	Brass Spacers Part No.	Pricing 10	Pricing 100	Aluminum Spacers Part No.	Pricing 10	Pricing 100
#4 (.120)	.125	1909K-ND	1.90	16.27	2036K-ND	1.38	10.20
	.250	1454AK-ND	2.16	18.54	3457K-ND	1.61	10.40
	.375	1454BK-ND	2.30	19.77	3458K-ND	1.91	12.36
	.500	1454CK-ND	2.76	23.48	3459K-ND	2.09	14.00
	.625	1919K-ND	3.08	26.47	2314K-ND	2.31	15.45
	.750	1454DK-ND	3.12	26.88	3460K-ND	2.59	16.68
	.875	1920K-ND	4.83	41.60	3402K-ND	2.91	20.91
	1.000	1454EK-ND	4.97	42.80	3461K-ND	3.16	21.74
	1.500	1924K-ND	10.69	67.36	3462K-ND	7.03	44.50
	2.000	1925K-ND	14.16	89.30	3463K-ND	9.33	58.81
#6 (.140)	.125	1934K-ND	1.90	16.27	3403K-ND	1.38	10.20
	.250	1457AK-ND	2.16	18.54	3464K-ND	1.61	10.40
	.375	1457BK-ND	2.30	19.77	3465K-ND	1.91	12.36
	.500	1457CK-ND	2.76	23.48	3466K-ND	2.09	14.00
	.625	1935K-ND	3.08	26.47	3429K-ND	2.31	15.45
	.750	1457DK-ND	3.12	26.88	3467K-ND	2.59	16.68
	.875	1936K-ND	4.83	41.60	3438K-ND	2.91	20.91
	1.000	1457EK-ND	4.97	42.80	3468K-ND	3.16	21.74
	1.500	1937K-ND	10.69	67.36	3469K-ND	7.03	44.50
	2.000	1938K-ND	14.08	89.19	3470K-ND	9.33	58.81
#8 (.171)	.125	1942K-ND	1.90	16.27	4258K-ND	1.38	10.20
	.250	1480K-ND	2.16	18.54	3471K-ND	1.61	10.40
	.375	1481K-ND	2.30	19.77	3472K-ND	1.91	12.36
	.500	1482K-ND	2.76	23.48	3473K-ND	2.09	14.00
	.625	2032K-ND	3.08	26.47	4259K-ND	2.31	15.45
	.750	1483K-ND	3.12	26.88	3474K-ND	2.59	16.68
	.875	2033K-ND	4.83	41.60	4260K-ND	2.91	20.91
	1.000	1484K-ND	4.97	42.64	3475K-ND	3.16	21.74
	1.500	2034K-ND	10.69	67.36	3476K-ND	7.03	44.50
	2.000	2035K-ND	14.08	89.19	3477K-ND	9.33	58.81

Round Spacer Kits

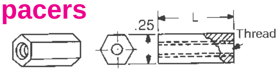
Brass Nickel Plated - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with clearance holes for #4, #6, and #8. 100 pieces of each size complete with cabinet.

SPR-13KIT-ND **$244.08**

Aluminum Iridite - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with clearance holes for #4, #6, and #8. 100 pieces of each size complete with cabinet.

SPR-34KIT-ND **$229.74**

Nylon Spacers



Hex Threaded Standoffs

Material: Nylon 6/6   Economical for terminal or printed circuit board supports.

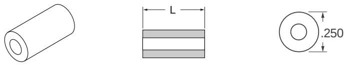
“L” Length (Inch)	4-40 Thread Part No.	6-32 Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	1902AK-ND	1903AK-ND	1904AK-ND	4.91	25.23
.375	1902BK-ND	1903BK-ND	1904BK-ND	5.03	25.85
.500	1902CK-ND	1903CK-ND	1904CK-ND	5.24	26.98
.625	1902FK-ND	1903FK-ND	1904FK-ND	4.56	31.92
.750	1902DK-ND	1903DK-ND	1904DK-ND	6.73	34.61
.875	1902GK-ND	1903GK-ND	1904GK-ND	5.14	36.05
1.000	1902EK-ND	1903EK-ND	1904EK-ND	6.77	34.71

Hex Threaded Standoffs - Flame Retardant

Material: Monsanto 340 FR UL 94V-0 rating

“L” Length (Inch)	4-40 Thread Part No.	6-32 Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	8440AK-ND	8441AK-ND	8442AK-ND	5.44	38.00
.375	8440BK-ND	8441BK-ND	8442BK-ND	5.55	38.88
.500	8440CK-ND	8441CK-ND	8442CK-ND	5.78	40.37
.625	8440DK-ND	8441DK-ND	8442DK-ND	6.89	47.48
.750	8440EK-ND	8441EK-ND	8442EK-ND	6.91	48.31
.875	8440FK-ND	8441FK-ND	8442FK-ND	7.14	50.06
1.000	8440GK-ND	8441GK-ND	8442GK-ND	7.48	52.32

Round Thru-Hole Spacers

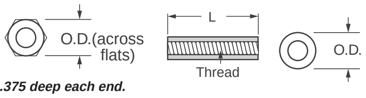


Material: Nylon 6/6

“L” Length (Inch)	#4 Screw .120 Hole Part No.	#6 Screw .140 Hole Part No.	#8 Screw .171 Hole Part No.	Pricing 10	Pricing 100
.125	875K-ND	883K-ND	891K-ND	.91	8.34
.250	876K-ND	884K-ND	892K-ND	.99	9.17
.375	877K-ND	885K-ND	893K-ND	1.29	11.33
.500	878K-ND	886K-ND	894K-ND	1.37	12.57
.625	879K-ND	887K-ND	895K-ND	1.48	13.07
.750	880K-ND	888K-ND	896K-ND	1.50	14.11
.875	881K-ND	889K-ND	897K-ND	1.63	15.55
1.000	882K-ND	890K-ND	898K-ND	1.73	17.00

Threaded Standoffs

- **Brass:** ASTM-B16
- **Plating:** Zinc (ASTM B633)
- **Aluminum:** QQ-A-225/3, Alloy 2011-T3
- **Plating:** Clear Iridite (Mil-C-5541



Note: Spacers over 1.000 long are tapped .375 deep each end.

Thread	O.D.	“L” Length (Inch)	Hex Thread Part No.	Pricing 10	Pricing 100	Round Thread Part No.	Pricing 10	Pricing 100
Aluminum Iridite Finish								
2-56	.156	.187	1797AK-ND	3.79	35.32	1801AK-ND	3.85	33.17
		.250	1797BK-ND	4.07	37.90	1801BK-ND	3.81	32.96
		.312	1797CK-ND	4.23	39.45	1801CK-ND	4.13	35.64
		.375	1797DK-ND	3.21	29.97	1801DK-ND	4.77	41.09
4-40	.187	.250	1891K-ND	2.17	15.86	2025K-ND	2.16	15.45
		.375	1892K-ND	2.55	18.44	2026K-ND	2.49	18.22
		.500	1893K-ND	2.81	21.52	2027K-ND	2.74	19.88
		.625	1894K-ND	3.30	23.38	2028K-ND	3.24	21.73
		.750	1895K-ND	3.66	26.27	2029K-ND	3.61	25.24
		.875	1896K-ND	4.03	29.04	2030K-ND	3.96	27.19
		1.000	1897K-ND	4.42	38.00	2031K-ND	4.42	38.00
4-40	.250	.250	2201K-ND	2.10	15.56	3478K-ND	1.91	13.39
		.375	2202K-ND	2.35	17.10	3479K-ND	2.11	15.55
		.500	2203K-ND	2.60	18.96	3480K-ND	2.37	16.78
		.625	1808K-ND	2.81	20.80	1839K-ND	2.57	24.72
		.750	2204K-ND	3.17	22.66	3481K-ND	2.89	20.81
		.875	1809K-ND	3.91	31.32	1846K-ND	3.56	30.59
		1.000	2205K-ND	4.03	34.86	3482K-ND	3.93	33.88
		1.500	2206K-ND	6.87	59.02	3483K-ND	6.64	57.16
		2.000	2207K-ND	7.92	68.29	3484K-ND	7.69	66.23
6-32	.250	.250	2208K-ND	2.10	15.56	3485K-ND	1.91	13.39
		.375	2209K-ND	2.35	17.10	3486K-ND	2.11	15.55
		.500	2210K-ND	2.60	18.96	3487K-ND	2.37	16.78
		.625	1813K-ND	2.97	21.22	1847K-ND	2.82	24.30
		.750	2211K-ND	3.17	22.66	3488K-ND	2.89	20.81
		.875	1816K-ND	3.38	23.99	1848K-ND	3.18	22.76
		1.000	2212K-ND	4.03	34.86	3489K-ND	3.93	33.88
		1.250	1818K-ND	6.08	52.32	1853K-ND	5.96	51.30
		1.500	2213K-ND	6.87	59.02	3490K-ND	6.64	57.16
		1.750	1819K-ND	7.17	61.79	1855K-ND	7.05	60.77
		2.000	2214K-ND	7.92	68.29	3491K-ND	7.69	66.23
		2.250	1820K-ND	8.79	75.71	1856K-ND	8.56	73.69
		2.500	1825K-ND	9.62	82.91	1857K-ND	9.38	80.85
8-32	.250	.250	2215K-ND	2.10	15.56	3492K-ND	1.91	13.39
		.375	2216K-ND	2.35	17.10	3493K-ND	2.11	15.55
		.500	2217K-ND	2.60	18.96	3494K-ND	2.37	16.78
		.625	1827K-ND	2.87	24.71	1858K-ND	2.57	19.16
		.750	2218K-ND	3.10	26.57	3495K-ND	2.89	20.81
		.875	1828K-ND	3.85	33.06	1859K-ND	3.18	22.76
		1.000	2219K-ND	4.03	34.86	3496K-ND	3.93	33.88
		1.500	2220K-ND	6.87	59.02	3497K-ND	6.64	57.16
		2.000	2221K-ND	7.92	68.29	3498K-ND	7.69	66.23
8-32	.375	.375	1926AK-ND	3.56	30.68	2315AK-ND	5.25	47.89
		.500	1926BK-ND	3.71	31.92	2315BK-ND	5.89	50.68
		.625	1926CK-ND	4.86	41.82	2315CK-ND	6.35	54.59
		.750	1926DK-ND	5.65	48.61	2315DK-ND	6.81	58.61
		1.000	1926EK-ND	6.86	58.92	2315EK-ND	8.12	70.03
Brass Zinc Plate								
2-56	.156	.187	1798AK-ND	4.45	41.45	1802AK-ND	3.81	32.96
		.250	1798BK-ND	3.73	34.81	1802BK-ND	4.10	35.32
		.312	1798CK-ND	5.76	53.77	1802CK-ND	4.25	36.67
		.375	1798DK-ND	5.35	49.96	1802DK-ND	4.25	36.67
4-40	.187	.250	1450K-ND	2.25	16.79	1547K-ND	2.45	15.45
		.375	1803K-ND	2.86	19.26	1864K-ND	2.82	23.37
		.500	1656K-ND	3.09	22.81	1657K-ND	3.06	22.35
		.625	1804K-ND	4.07	30.69	1865K-ND	4.06	26.37
		.750	1656AK-ND	4.25	29.14	1657AK-ND	4.14	28.42
		.875	1805K-ND	5.65	37.70	1866K-ND	5.64	36.36
		1.000	1656BK-ND	5.48	37.69	1657BK-ND	5.43	36.15
4-40	.250	.250	1450AK-ND	2.10	15.56	1547AK-ND	2.62	22.56
		.375	1450BK-ND	2.63	18.02	1547BK-ND	3.07	26.37
		.500	1450CK-ND	3.04	22.66	1547CK-ND	3.74	32.13
		.625	1829K-ND	4.45	30.59	1867K-ND	4.23	36.36
		.750	1450DK-ND	4.70	35.74	1547DK-ND	4.73	40.79
		.875	1830K-ND	5.42	37.18	1876K-ND	5.34	45.94
		1.000	1450EK-ND	5.29	36.16	1547EK-ND	5.94	51.18
		1.500	1831K-ND	10.86	93.52	1877K-ND	10.53	90.64
		2.000	1832K-ND	11.14	96.03	1878K-ND	10.76	92.70
6-32	.250	.250	1451AK-ND	2.10	15.56	1548AK-ND	2.10	14.32
		.375	1451BK-ND	2.63	18.02	1548BK-ND	2.30	16.78
		.500	1451CK-ND	3.04	22.66	1548CK-ND	3.06	21.73
		.625	1451DK-ND	4.11	30.59	1548DK-ND	3.34	29.15
		.750	1451EK-ND	4.70	35.74	1548EK-ND	4.25	34.91
		.875	1833K-ND	5.42	37.18	1879K-ND	5.08	36.26
		1.000	1635K-ND	5.29	36.16	1548FK-ND	4.87	35.54
		1.250	1636K-ND	6.89	64.33	1881K-ND	7.33	63.13
		1.500	1637K-ND	7.97	74.27	1882K-ND	10.53	90.64
		1.750	1638K-ND	10.15	94.66	1883K-ND	10.67	91.87
		2.000	1639K-ND	10.27	95.89	1884K-ND	10.76	92.70
		2.250	1642K-ND	10.48	97.79	1885K-ND	11.04	94.97
		2.500	1643K-ND	10.78	100.47	1886K-ND	11.35	97.79
8-32	.250	.250	1474AK-ND	2.10	17.36	1692AK-ND	2.90	26.98
		.375	1474BK-ND	2.63	18.02	1692BK-ND	3.04	28.43
		.500	1474CK-ND	3.04	22.66	1692CK-ND	3.87	36.10
		.625	1834K-ND	4.45	30.59	1887K-ND	4.79	41.20
		.750	1474DK-ND	4.70	35.74	1692DK-ND	5.24	48.83
		.875	1836K-ND	5.42	37.18	1888K-ND	5.43	46.91
		1.000	1474EK-ND	5.29	36.16	1692EK-ND	5.40	50.37
		1.500	1837K-ND	10.86	93.52	1889K-ND	10.53	90.64
		2.000	1838K-ND	11.13	95.89	1899K-ND	11.32	97.54
8-32	.375	.375	1452AK-ND	4.57	39.35	1549AK-ND	5.69	53.14
		.500	1452BK-ND	5.88	50.57	1549BK-ND	6.14	57.26
		.625	1452CK-ND	7.60	65.40	1549CK-ND	6.76	63.14
		.750	1452DK-ND	8.19	70.56	1549DK-ND	7.43	69.32
		1.000	1452EK-ND	10.58	90.94	1549EK-ND	9.12	85.08

1/4” Hex Threaded Standoff Kit

Brass - Assortment of 1500 in 1/4”, 3/8”, 1/2”, 3/4” and 1” lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.

STH-14KIT-ND............................**$394.88**

Aluminum - Assortment of 1500 pieces in 1/4”, 3/8”, 1/2”, 3/4” and 1” lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.

STH-22KIT-ND............................**$285.62**

1/4” Round Threaded Standoff Kit

Brass - Assortment of 1500 pieces in 1/4”, 3/8”, 1/2”, 3/4” and 1” lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.

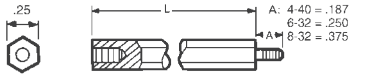
STR-15KIT-ND............................**$358.96**

Aluminum - Assortment of 1500 pieces in 1/4”, 3/8”, 1/2”, 3/4” and 1” lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.

STR-35KIT-ND............................**$280.01**

Male/Female .250” Hex Threaded Standoffs

- **Brass:** ASTM-B16
- **Plating:** Nickel (QQ-N-290)
- **Aluminum:** QQ-Q-225/3
- **Plating:** Clear Iridite (Mil-C-5541)



Length (Inch)	4-40 Thread Part No.	Pricing 10	Pricing 100	6-32 Thread Part No.	Pricing 10	Pricing 100	8-32 Thread Part No.	Pricing 10	Pricing 100
Aluminum (Iridite MIL-C-5441)									
.250	8714K-ND*	2.44	20.71	8717K-ND*	2.50	14.53	—	—	—
.375	8400K-ND†	2.77	23.49	8413K-ND†	2.86	24.41	8426K-ND†	3.50	32.14
.500	8401K-ND	3.86	32.86	8414K-ND	2.90	24.62	8427K-ND	3.56	32.86
.625	8402K-ND	4.15	35.22	8415K-ND	3.66	31.11	8428K-ND	3.83	35.22
.750	8403K-ND	4.22	35.85	8416K-ND	3.69	31.41	8429K-ND	4.08	37.54
.875	8404K-ND	4.58	38.93	8417K-ND	4.02	34.20	8430K-ND	4.53	41.71
1.000	8405K-ND	4.85	41.20	8418K-ND	4.22	35.85	8431K-ND	4.81	44.23
1.125	8406K-ND	5.93	50.36	8419K-ND	4.35	36.98	8432K-ND	6.45	60.25
1.250	8407K-ND	6.00	50.98	8420K-ND	4.65	39.44	8433K-ND	6.68	62.32
1.375	8408K-ND	7.03	60.56	8421K-ND	5.27	44.80	8434K-ND	7.21	67.26
1.500	8409K-ND	7.19	61.90	8422K-ND	6.03	51.29	8435K-ND	7.29	67.97
1.625	8410K-ND	7.40	63.76	8423K-ND	6.13	52.02	8436K-ND	7.36	68.60
1.750	8411K-ND	7.57	65.10	8424K-ND	6.43	54.59	8437K-ND	7.44	69.42
2.000	8412K-ND	7.81	67.26	8425K-ND	6.56	55.82	8438K-ND	7.52	70.14
Brass									
.250	8713K-ND*	2.62	24.10	8716K-ND*	2.56	23.49	—	—	—
.375	7200K-ND†	2.89	26.57	7210K-ND†	2.98	27.50	7220K-ND†	3.47	31.82
.500	1944K-ND	4.09	34.76	1952K-ND	3.53	29.97	1957K-ND	3.79	32.14
.625	1945K-ND	4.15	35.22	1953K-ND	4.48	38.00	1958K-ND	5.27	44.80
.750	1946K-ND	4.94	42.03	1954K-ND	4.71	40.06	1959K-ND	5.54	47.17
.875	7201K-ND	4.63	42.54	7211K-ND	4.99	45.94	7221K-ND	5.60	51.50
1.000	1947K-ND	5.54	47.17	1644K-ND	5.14	47.38	1960K-ND	6.36	54.07
1.125	7202K-ND	5.54	50.98	7212K-ND	5.48	50.36	7222K-ND	6.30	58.71
1.250	1948K-ND	8.51	73.33	1955K-ND	7.02	59.64	1961K-ND	8.51	73.33
1.375	1949K-ND	8.72	75.03	1956K-ND	7.61	64.68	1962K-ND	8.72	75.03
1.500	1950K-ND	9.12	78.58	1645K-ND	7.12	65.50	1963K-ND	9.12	78.58
1.625	7203K-ND	8.50	79.31	7214K-ND	8.50	79.31	7224K-ND	8.50	79.31
1.750	7205K-ND	9.49	88.58	7215K-ND	9.49	88.58	7225K-ND	9.49	88.58
2.000	1951K-ND	10.36	89.20	1646K-ND	9.56	89.20	1964K-ND	10.36	89.20
.600	8799K-ND‡	4.12	35.05	—	—	—	—	—	—
Nylon 6/6									
.250	4800K-ND	3.06	24.51	4814K-ND*	3.06	24.51	4828K-ND*	3.50	24.51
.375	4801K-ND	3.13	25.03	4815K-ND	3.13	25.03	4829K-ND†	3.57	25.03
.500	4802K-ND	3.25	25.95	4816K-ND	3.25	25.95	4830K-ND	3.72	25.95
.625	4803K-ND	3.32	26.47	4817K-ND	3.32	26.47	4831K-ND	3.79	26.47
.750	4804K-ND	3.38	26.98	4818K-ND	3.38	26.98	4832K-ND	3.86	26.98
.875	4805K-ND	3.44	27.50	4819K-ND	3.44	27.50	4833K-ND	3.93	27.50
1.000	4806K-ND	3.50	28.01	4820K-ND	3.50	28.01	4834K-ND	4.00	28.01
1.125	4807K-ND	3.54	28.33	4821K-ND	3.54	28.33	4835K-ND	4.05	28.33
1.250	4808K-ND	3.57	28.53	4822K-ND	3.57	28.53	4836K-ND	4.08	28.53
1.375	4809K-ND	3.63	29.04	4823K-ND	3.63	29.04	4837K-ND	4.15	29.04
1.500	4810K-ND	3.69	29.45	4824K-ND	3.69	29.45	4838K-ND	4.22	29.45
1.625	4811K-ND	3.76	30.07	4825K-ND	3.76	30.07	4839K-ND	4.29	30.07
1.750	4812K-ND	3.82	30.60	4826K-ND	3.82	30.60	4840K-ND	4.37	30.60
2.000	4813K-ND	3.88	31.11	4827K-ND	3.88	31.11	4841K-ND	4.44	31.11
.600	4799K-ND‡	3.05	25.94	—	—	—	—	—	—

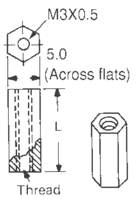
* Internal Thread .130/.150 deep   † Internal Thread .250 deep   ‡ PC/104 and PC/104 Plus

Hex Brass Standoff Kit Assortment of 750 in 1/2”, 3/4”, 1”, 1-1/4”, and 1-1/2” lengths with thread sizes of 4-40, 6-32 and 8-32. 50 pieces of each size complete with cabinet.

STH-19KIT-ND **$358.96**

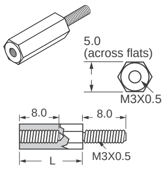
ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP.

Metric 5mm Hex Threaded Standoffs



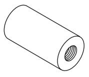
"L" Length (mm)	Digi-Key Part No.	Pricing 10	100
5	4390K-ND	2.89	26.99
10	4391K-ND	3.42	31.92
15	4392K-ND	3.81	35.43
20	4393K-ND	4.49	41.82
25	4394K-ND	4.92	45.93

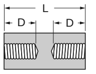
Metric Male/Female 5mm Hex Threaded Standoffs

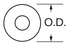


"L" Length (mm)	Digi-Key Part No.	Pricing 10	100
10	4313K-ND	4.40	40.99
12	4314K-ND	4.51	42.03
15	4315K-ND	4.71	43.87
18	4316K-ND	5.08	47.49
20	4317K-ND	5.23	48.81
25	4318K-ND	5.77	53.77

Ceramic Standoffs

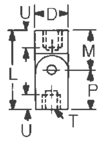




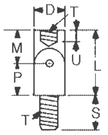


Thread	O.D.	"L" Length (Inch)	D (2) Depth	Digi-Key Part No.	Pricing 10	100
6-32	.250	.250	thru	7710K-ND	18.42	126.20
	.250	.500	.156	7711K-ND	20.93	141.05
	.375	.375	.156	7712K-ND	17.43	118.67
	.375	.500	.187	7713K-ND	17.93	122.49
	.500	.500	.140	7714K-ND	19.44	133.62
	.500	.750	.250	7715K-ND	20.43	141.04
	.500	1.000	.375	7716K-ND	21.90	148.37
	.500	1.500	.562	7717K-ND	25.89	178.06
	.500	2.500	.500	7718K-ND	33.38	226.36
1/4-20	.750	2.500	.750	7719K-ND	46.50	322.72
	.750	4.000	.750	7720K-ND	56.15	389.54

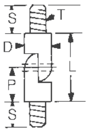
Hinged Standoffs



Female/Female



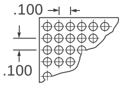
Male/Female



Male/Male

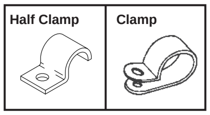
T Thread	D Dia. (In.)	Dimensions (Inch) L	S	U	M	P	Digi-Key Part No.	Pricing 10	100
Female/Female Hinge									
4-40	.187	.750	—	.172	.375	.375	351K-ND	6.87	56.14
4-40	.187	1.000	—	.250	.375	.625	352K-ND	7.33	59.85
6-32	.250	.750	—	.172	.375	.375	353K-ND	9.80	79.93
6-32	.250	1.000	—	.250	.375	.625	354K-ND	10.01	81.78
8-32	.250	.750	—	.172	.375	.375	355K-ND	8.86	72.51
8-32	.250	1.000	—	.250	.375	.625	356K-ND	9.32	76.22
Male/Female Hinge									
4-40	.187	.625	.250	.172	.375	.250	333K-ND	8.06	65.81
4-40	.187	.875	.250	.250	.625	.250	334K-ND	8.51	69.42
6-32	.250	.625	.312	.172	.375	.250	335K-ND	9.69	79.21
6-32	.250	.875	.312	.250	.625	.250	336K-ND	9.90	80.95
Male/Male Hinge									
4-40	.187	.500	.250	—	—	.250	357K-ND	9.24	75.60
6-32	.250	.500	.312	—	—	.250	358K-ND	9.59	78.28
8-32	.250	.500	.312	—	—	.250	359K-ND	10.77	87.86

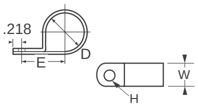
Prepunched Insulating Boards



Dim. – Inch Width	Length	Digi-Key Part No.	Pricing 1	10	Mfg. Part No.
Perfboard — Holes .042" (1.07mm) Dia., Glass Epoxy					
2.00	4.50	3405K-ND	2.68	22.24	3405
2.00	6.00	3406K-ND	3.50	29.05	3406
2.75	17.00	3407K-ND	10.52	87.32	3407
3.00	4.50	3408K-ND	3.66	30.38	3408
4.50	6.00	3409K-ND	5.14	42.66	3409
4.50	6.50	3410K-ND	5.94	49.30	3410
4.50	8.50	3411K-ND	6.50	53.95	3411
4.50	17.00	3412K-ND	14.46	120.02	3412
6.00	17.00	3413K-ND	19.46	161.52	3413

Metal Cable Clamps

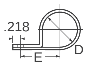


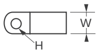


Dimensions – Inch D	E	W	H	Digi-Key Part No.	Pricing 10	100
Steel Half Clamps						
.125	.250	.500	.218	8140K-ND	1.14	9.17
.187	.250	.500	.218	8141K-ND	1.20	9.89
.250	.250	.500	.218	8142K-ND	1.29	10.29
.312	.250	.500	.218	8143K-ND	1.38	11.12
.375	.312	.625	.218	8144K-ND	1.62	12.88
.437	.312	.625	.218	8145K-ND	1.70	13.59
.500	.312	.625	.218	8146K-ND	2.13	16.99
.562	.312	.625	.218	8147K-ND	2.18	17.45
.625	.312	.625	.218	8148K-ND	2.28	18.33
.687	.312	.625	.218	8149K-ND	2.34	18.75
.750	.312	.625	.218	8150K-ND	2.43	19.46
.812	.312	.625	.218	8151K-ND	2.53	20.29
.875	.375	.750	.281	8152K-ND	2.76	22.04
.937	.437	.750	.281	8153K-ND	2.86	22.97
1.000	.437	.750	.281	8154K-ND	2.97	23.68
Insulated Steel Half Clamps						
.187	.250	.500	.218	8160K-ND	3.09	24.40
.250	.250	.500	.218	8161K-ND	3.50	27.60
.312	.312	.625	.218	8162K-ND	3.96	31.21
.375	.312	.625	.218	8163K-ND	4.14	32.65
.437	.312	.625	.218	8164K-ND	4.67	36.78
.500	.312	.625	.218	8165K-ND	3.43	27.09
.562	.312	.625	.218	8166K-ND	3.55	28.01
.625	.312	.625	.218	8167K-ND	3.64	28.85
.687	.312	.625	.218	8168K-ND	3.77	29.77
.750	.312	.625	.218	8169K-ND	4.11	32.44
.812	.375	.750	.281	8170K-ND	5.18	40.79
.875	.437	.750	.281	8171K-ND	5.37	42.33
.937	.437	.750	.281	8172K-ND	6.33	49.85
1.000	.437	.750	.281	8173K-ND	5.96	47.07
Steel Clamps						
.187	.218	.500	.203	8100K-ND	1.36	10.77
.250	.218	.500	.203	8101K-ND	1.41	11.32
.312	.218	.500	.203	8102K-ND	1.47	11.74
.375	.218	.500	.203	8103K-ND	1.52	12.25
.437	.218	.500	.203	8104K-ND	1.59	12.77
.500	.218	.500	.203	8105K-ND	1.67	13.34
.562	.218	.500	.203	8106K-ND	1.76	14.11
.625	.218	.500	.203	8107K-ND	1.81	14.52
.687	.218	.500	.203	8108K-ND	1.87	15.04
.750	.218	.500	.203	8109K-ND	1.93	15.45
.812	.218	.500	.203	8110K-ND	1.99	15.86
.875	.218	.500	.203	8111K-ND	2.06	16.48
.937	.218	.500	.203	8112KS-ND	2.13	17.09
1.000	.218	.500	.203	8113K-ND	2.18	17.50
Insulated Steel Clamps						
.125	.218	.500	.203	8120K-ND	2.53	20.39
.187	.218	.500	.203	8121K-ND	2.64	21.12
.250	.218	.500	.203	8122K-ND	2.72	21.83
.312	.218	.500	.203	8123K-ND	2.83	22.81
.375	.218	.500	.203	8124KS-ND	2.93	23.38
.437	.218	.500	.203	8125K-ND	3.04	24.51
.500	.218	.500	.203	8126K-ND	3.15	25.23
.562	.218	.500	.203	8127K-ND	3.27	26.26
.625	.218	.500	.203	8128K-ND	3.37	26.88
.687	.218	.500	.203	8129K-ND	3.46	27.70
.750	.218	.500	.203	8130K-ND	3.57	28.63
.812	.218	.500	.203	8131K-ND	3.66	29.25
.875	.218	.500	.203	8132K-ND	3.77	30.18
.937	.218	.500	.203	8133K-ND	3.87	30.79
1.000	.218	.500	.203	8134K-ND	3.97	31.83

Nylon Cable Clamps

Ideal for securing, insulating and routing cable wiring, piping, tubing, components and fibre optics. Made of .050" thick nylon 6/6, white.





Dimensions – Inch D	E	W	H	Digi-Key Part No.	Pricing 100	500	1,000
.125	.325	.375	.140	7620K-ND	4.11	18.00	20.67
.125	.325	.375	.203	7621K-ND	4.11	18.00	20.67
.187	.380	.375	.140	7622K-ND	4.21	18.50	20.97
.187	.380	.375	.203	7623K-ND	4.21	18.50	20.97
.250	.410	.375	.140	7624K-ND	4.33	18.55	21.75
.250	.410	.375	.203	7625K-ND	4.33	18.55	21.75
.312	.445	.375	.140	7626K-ND	4.32	19.04	22.24
.312	.445	.375	.203	7627K-ND	4.32	19.04	22.24
.375	.475	.375	.140	7628K-ND	4.64	19.84	23.91
.375	.475	.375	.203	7629K-ND	4.64	19.84	23.91
.437	.525	.375	.140	7630K-ND	4.94	21.10	24.81
.437	.525	.375	.203	7631K-ND	4.94	21.10	24.81
.500	.550	.375	.140	7632K-ND	4.94	21.60	25.41
.500	.550	.375	.203	7633K-ND	4.94	21.60	25.41
.562	.625	.500	.203	7634K-ND	7.72	33.22	39.04
.625	.660	.500	.203	7635K-ND	8.24	34.52	41.01
.750	.785	.500	.203	7636K-ND	9.16	39.12	47.05
.875	.845	.500	.203	7637K-ND	9.98	42.20	50.12
1.000	.910	.500	.203	7638K-ND	10.29	43.75	52.40
1.125	.970	.500	.203	7639K-ND	14.73	62.30	73.84
1.125	1.060	.500	.203	7640K-ND	15.76	67.22	80.25

Recessed Bumpers

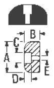


Fig. 1

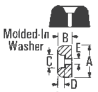


Fig. 2

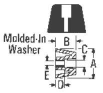


Fig. 3

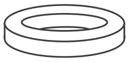
Provides excellent traction and shock absorbing qualities. Materials: Rubber, BUNA S, (fig. 1 & 2) Vinyl, (fig. 3).

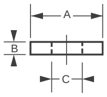
Fig.	Dimensions (Inch) A	B	C	D	E	Screw Size	Digi-Key Part No.	Pricing 10	100
1	.500	.250	.250	.125	.125	#4	720K-ND	1.53	12.25
1	.625	.312	.250	.187	.125	#4	721K-ND	2.43	19.46
1	.718	.437	.250	.218	.125	#4	722K-ND	4.88	39.03
2	.937	.375	.375	.187	.187	#8	723K-ND	4.68	37.55
3	.687	.250	.343	.125	.155	#6	724K-ND*	3.60	28.84
3	.875	.312	.406	.187	.187	#8	725K-ND*	6.64	53.14
3	1.062	.437	.468	.234	.200	#10	726K-ND*	8.27	66.13
3	.562	.375	.218	.187	.115	#4	727K-ND	4.35	34.81
3	.750	.437	.265	.250	.148	#6	728K-ND	4.91	39.25
3	.937	.625	.359	.297	.174	#8	729K-ND	7.25	57.99

* Gray — all others black.

Flat Washers

Fibre: Commercial per MIL-F-1148A, Grade CH Nylon: Grade 6/6 per ASTM D4066

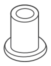


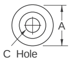


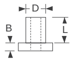
Dimensions – Inch A O.D.	B Thick	C I.D.	Digi-Key Part No.	Pricing 100	500	1,000
Fibre Material — #4 Screw Size						
.250	.032	.120	3116K-ND	2.73	11.83	—
.312	.032	.120	348K-ND	2.72	11.82	—
.375	.032	.120	3117K-ND	2.78	11.86	—
.250	.047	.120	3154K-ND	2.72	11.81	—
.312	.047	.120	3155K-ND	2.73	11.85	11.95
.375	.047	.120	3156K-ND	2.98	12.84	13.56
.250	.062	.120	3368K-ND	2.73	11.85	12.00
.312	.062	.120	3196K-ND	2.73	11.84	14.82
.375	.062	.120	3197K-ND	2.79	11.86	14.13
Nylon Material — #4 Screw Size						
.250	.032	.120	3348K-ND	2.63	11.34	—
.312	.032	.120	3359K-ND	3.10	13.41	15.89
.375	.032	.120	3118K-ND	3.30	14.42	17.00
.250	.047	.120	345K-ND	3.09	13.13	—
.312	.047	.120	3157K-ND	2.67	11.31	15.32
.375	.047	.120	3158K-ND	2.68	11.33	16.89
.250	.062	.120	3358K-ND	2.67	11.32	15.33
.312	.062	.120	3198K-ND	3.09	13.37	20.26
.375	.062	.120	3200K-ND	3.09	13.13	19.16
Fibre Material — #6 Screw Size						
.250	.032	.140	3119K-ND	2.73	11.83	—
.312	.032	.140	3120K-ND	2.72	11.82	—
.375	.032	.140	3121K-ND	2.78	11.86	—
.250	.047	.140	3159K-ND	2.72	11.81	—
.312	.047	.140	3160K-ND	2.73	11.85	11.95
.375	.047	.140	3161K-ND	2.98	12.84	13.56
.250	.062	.140	3369K-ND	2.73	11.85	12.00
.312	.062	.140	3370K-ND	2.72	11.82	12.95
.375	.062	.140	3201K-ND	2.79	11.86	14.13
Nylon Material — #6 Screw Size						
.250	.032	.140	3122K-ND	2.63	11.34	—
.312	.032	.140	3349K-ND	2.62	11.32	12.65
.375	.032	.140	3123K-ND	3.30	14.42	17.00
.250	.047	.140	3162K-ND	2.63	11.33	12.25
.312	.047	.140	346K-ND	3.29	13.88	15.32
.375	.047	.140	3163K-ND	2.68	11.33	16.89
.250	.062	.140	3360K-ND	2.62	11.32	15.33
.312	.062	.140	3361K-ND	3.09	13.37	20.26
.375	.062	.140	3202K-ND	3.09	13.13	19.16

Nylon Shoulder Washers/Bushings

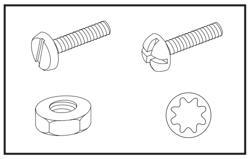
Material:
Nylon, Grades 6/6 per ASTM D4066

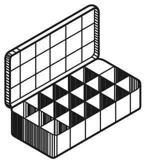






Dimensions – Inch L	A	B	C	D	Digi-Key Part No.	Pricing 100	500
#4 Screw Size							
.031	.218	.040	.115	.135	3049K-ND	3.81	15.95
.047	.250	.032	.115	.185	7681K-ND	4.94	21.60
.093	.235	.047	.115	.145	3053K-ND	7.21	30.37
.125	.235	.047	.115	.145	3102K-ND	7.21	30.37
.18	.235	.047	.115	.145	3103K-ND	7.21	30.37
.250	.235	.047	.115	.145	340K-ND	8.08	34.49
#6 Screw Size							
.032	.385	.062	.145	.240	7682K-ND	5.66	23.14
.032	.250	.062	.140	.187	7683K-ND	4.74	20.09
.032	.312	.062	.140	.187	7684K-ND	5.26	22.16
.125	.290	.047	.140	.170	3054K-ND	7.22	30.41
.187	.290	.047	.140	.170	3104K-ND	7.52	32.46
.250	.290	.047	.140	.170	341K-ND	8.08	34.49
.500	.290	.047	.140	.170	3055K-ND	8.25	35.05





Digi-Key® Electronic Hardware Kits come complete with a divided plastic box for easy storage.

Zinc Plated Nuts and Washers

Description	Digi-Key Part No.	Pricing	
		100	1,000
Hex Nuts			
No. 2 - 56	H212-ND†★	1.31	10.51
No. 4 - 40	H216-ND†★	.93	7.44
No. 6 - 32	H220-ND♦†★§	1.28	10.27
No. 8 - 32	H224-ND♦†★§	1.57	12.58
No. 10 - 32	H228-ND♦§	1.76	14.11
Internal Tooth Lock Washers			
No. 2	H232-ND†★	3.65	29.23
No. 4	H236-ND†★	1.07	8.59
No. 6	H240-ND♦†★§	1.13	9.07
No. 8	H244-ND♦†★§	1.20	9.60
No. 10	H248-ND♦§	1.47	11.76
Flat Washers			
No. 2	H776-ND	1.62	12.96
No. 4	H777-ND	2.81	22.46
No. 6	H778-ND	.97	7.78
No. 8	H779-ND	1.19	9.50
No. 10	H780-ND	1.62	12.96

Phillips Panhead Sheet Metal Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing	
		100	1,000
4 x 3/8	H800-ND	1.37	10.99
4 x 1/2	H801-ND	2.40	19.20
4 x 3/4	H802-ND	2.55	20.40
6 x 3/8	H803-ND	1.68	13.44
6 x 1/2	H804-ND	2.46	19.68
6 x 3/4	H805-ND	2.60	20.83
8 x 3/8	H806-ND	2.10	16.80
8 x1/2	H807-ND	2.76	22.08
8 x 3/4	H808-ND	4.41	35.28

Hex Head Sheet Metal Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing	
		100	1,000
4 x 3/8	H809-ND	9.72	77.76
4 x 1/2	H810-ND	10.73	85.87
4 x 3/4	H811-ND	13.38	107.04
6 x 3/8	H812-ND	5.58	44.64
6 x 1/2	H813-ND	7.60	60.82
6 x 3/4	H814-ND	9.54	76.32
8 x 3/8	H815-ND	7.84	62.74
8 x1/2	H816-ND	8.16	65.28
8 x 3/4	H817-ND	9.95	79.63

Phillips Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing	
		100	1,000
2-56 x 1/4	H330-ND†	4.12	32.93
2-56 x 1/2	H334-ND†	4.64	37.15
2-56 x 3/4	H338-ND	5.57	44.54
4-40 x 1/4	H342-ND†	1.11	8.88
4-40 x 5/16	H343-ND	1.21	9.70
4-40 x 3/8	H781-ND	1.62	12.96
4-40 x 1/2	H346-ND†	1.37	10.99
4-40 x 5/8	H348-ND	1.52	12.14
4-40 x 3/4)	H350-ND	1.68	13.44
6-32 x 1/4	H354-ND†	1.48	11.81
6-32 x 5/16	H355-ND	1.54	12.34
6-32 x 3/8	H356-ND♦	1.59	12.72
6-32 x 7/16	H357-ND	4.74	37.92
6-32 x 1/2	H360-ND†	1.69	13.54
6-32 x 5/8	H364-ND♦	1.84	14.69
6-32 x 3/4	H368-ND♦	1.95	15.60
6-32 x 1	H372-ND♦	2.29	18.34
8-32 x 1/4	H376-ND	2.01	16.08
8-32 x 3/8	H380-ND†	2.15	17.23
8-32 x 1/2	H384-ND♦	2.27	18.19
8-32 x 5/8	H388-ND†	2.50	19.97
8-32 x 3/4	H392-ND♦	2.71	21.70
8-32 x 1	H396-ND♦	3.23	25.87
10-32 x 1/2	H400-ND♦	3.30	26.40
10-32 x 3/4	H404-ND♦	4.06	32.45
10-32 x 1	H408-ND♦	5.48	43.87

Slotted Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing	
		100	1,000
2-56 x 1/4	H130-ND★	4.12	32.93
2-56 x 1/2	H134-ND★	4.64	37.15
2-56 x 3/4	H138-ND	5.55	44.40
4-36 x 1/2	H140-ND	2.40	19.20
4-40 x 1/4	H142-ND★	1.11	8.88
4-40 x 5/16	H143-ND	1.21	9.70
4-40 x 1/2	H146-ND★	1.37	10.99
4-40 x 5/8	H148-ND	1.52	12.14
4-40 x 3/4	H150-ND	1.68	13.44
6-32 x 1/4	H154-ND★	1.48	11.81
6-32 x 5/16	H155-ND	1.54	12.34
6-32 x 3/8	H156-ND§	1.59	12.72
6-32 x 7/16	H157-ND	1.65	13.20
6-32 x 1/2	H160-ND★	1.69	13.54
6-32 x 5/8	H164-ND§	1.84	14.69
6-32 x 3/4	H168-ND§	1.95	15.60
6-32 x 1	H172-ND§	2.29	18.34
8-32 x 1/4	H176-ND	2.01	16.08
8-32 x 3/8	H180-ND★	2.15	17.23
8-32 x 1/2	H184-ND§	2.27	18.19
8-32 x 5/8	H188-ND★	2.50	19.97
8-32 x 3/4	H192-ND§	2.71	21.70
8-32 x 1	H196-ND§	3.23	25.87
10-32 x 1/2	H200-ND§	3.30	26.40
10-32 x 3/4	H204-ND§	4.06	32.45
10-32 x 1	H208-ND§	5.48	43.87

Digi-Key® Zinc Plated Hardware Kits

Sizes #2, #4, #6, and #8.
1600 pieces total.
100 pieces each of the following:

★**1600-KIT-ND** (Slotted) . . . **$17.95**
†**1602-KIT-ND** (Phillips) . . . **$17.95**

Sizes #6, #8, and #10.
1600 pieces total.
100 pieces each of the following:

§**1601-KIT-ND** (Slotted) **$27.95**
♦**1603-KIT-ND** (Phillips) **$27.78**

Phillips Nylon Machine Screws

Nylon 66 - Melting Point is 500°F (260°C)

Description	Digi-Key Part No.	Pricing	
		100	1,000
2-56 x 1/4	H530-ND	8.86	70.90
2-56 x 1/2	H534-ND♦	9.10	72.82
2-56 x 3/4	H538-ND	9.26	74.11
4-40 x 1/4	H542-ND♦	8.86	70.90
4-40 x 3/8	H544-ND♦	9.00	72.00
4-40 x 1/2	H546-ND♦	9.10	72.82
4-40 x 5/8	H548-ND	9.19	73.54
4-40 x 3/4	H550-ND♦	9.26	74.11
6-32 x 1/4	H554-ND♦	9.26	74.11
6-32 x 3/8	H556-ND	9.43	75.46
6-32 x 1/2	H560-ND♦	9.51	76.08
6-32 x 5/8	H564-ND	9.57	76.56
6-32 x 3/4	H568-ND	9.59	76.75
6-32 x 1	H572-ND	9.66	77.28
8-32 x 1/4	H576-ND♦	9.17	73.34
8-32 x 3/8	H580-ND	9.24	73.92
8-32 x 1/2	H584-ND	9.04	72.34
8-32 x 5/8	H588-ND	9.46	75.70
8-32 x 3/4	H592-ND	9.42	75.36
8-32 x 1	H596-ND♦	9.46	75.65
10-32 x 1/2	H600-ND	10.19	81.55
10-32 x 3/4	H604-ND	10.20	81.60
10-32 x 1	H608-ND♦	10.38	83.04

Description	Digi-Key Part No.	Pricing	
		100	1,000
Nylon Hex Nuts			
2-56	H612-ND♦	10.55	84.38
4-40	H616-ND♦	10.50	84.00
6-32	H620-ND♦	10.80	86.40
8-32	H624-ND♦	11.06	88.46
10-32	H628-ND♦	11.30	90.43

Digi-Key® Nylon Hardware Kits

Sizes #2, #4, #6, #8 and #10.
1500 pieces total.
100 pieces each
of the following:

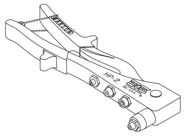
♦**1604-KIT-ND** (Phillips) **$53.94**

Rivets

Description	Digi-Key Part No.	Pricing	
		100	1,000
Aluminum Rivets			
3/32 x .250	H251-ND	7.56	60.48
3/32 x .375	H252-ND	7.60	60.80
1/8 x .212	H253-ND	6.15	49.20
1/8 x .275	H254-ND	4.65	37.20
1/8 x .337	H255-ND	5.03	40.20
1/8 x .400	H256-ND	5.18	41.40
1/8 x .462	H257-ND	8.40	67.20
1/8 x .650	H258-ND	10.28	82.20
Aluminum Large Flange Rivets			
1/8 x .275	H260-ND	8.65	69.20
1/8 x .400	H261-ND	9.00	72.00
1/8 x .525	H262-ND	11.00	88.00
Steel Rivets			
3/32 x .250	H263-ND	8.73	69.80
3/32 x .375	H264-ND	9.00	72.00
1/8 x .212	H265-ND	4.14	33.08
1/8 x .275	H266-ND	4.64	37.12
1/8 x .337	H267-ND	5.22	41.76
1/8 x .400	H268-ND	5.30	42.36
1/8 x .526	H269-ND	7.98	63.80
Steel Large Flange Rivets			
1/8 x .275	H270-ND	8.93	71.40
1/8 x .400	H271-ND	9.21	73.68
1/8 x .525	H272-ND	11.25	90.00

Hand Rivet Tools

HP-2®/39000



The HP-2 is the largest selling hand rivet tool in the industry. Its square shoulder fulcrum pin of cold-formed heat-treated steel prevents pin rotation that can elongate the engaging holes and cause premature tool failure in imitation tools. The HP-2 hand rivet tool sets up to 3/16" steel rivets and comes with four mounted nosepieces (3/32". 1/8". 5/32" and 3/16") and a service wrench.

H1001-ND. **$37.70**

200 Kit™/39001

The deluxe hand riveter kit includes the HP-2 and 200 assorted Klik-Fast rivets in popular sizes.

H1002-ND. **$68.12**

Metric Phillips, Panhead Machine Screws

Zinc Plated

Description	Digi-Key Part No.	Pricing	
		100	1,000
M2 x 5mm	H738-ND§	5.38	43.06
M2 x 8mm	H739-ND§	5.76	46.08
M2 x 12mm	H740-ND§	5.90	47.23
M3 x 5mm	H742-ND§	5.94	47.52
M3 x 8mm	H743-ND§	6.60	52.80
M3 x 12mm	H744-ND§	6.90	55.20
M3 x 20mm	H745-ND§	8.40	67.20
M3 x 25mm	H746-ND§	8.70	69.60
M4 x 5mm	H747-ND★	7.20	57.60
M4 x 8mm	H748-ND★	7.56	60.48
M4 x 12mm	H749-ND★	8.76	70.08
M4 x 20mm	H750-ND★	11.55	92.40
M4 x 25mm	H751-ND★	12.60	100.80
M5 x 6mm	H752-ND	10.56	84.48
M5 x 8mm	H753-ND	10.80	86.40
M5 x 12mm	H754-ND	12.60	100.80
M5 x 20mm	H755-ND	17.70	141.60
M5 x 25mm	H756-ND	18.60	148.80
M6 x 8mm	H757-ND★	20.40	163.20
M6 x 12mm	H758-ND★	21.60	172.80
M6 x 20mm	H759-ND★	25.80	206.40
M6 x 25mm	H760-ND★	27.60	220.80

Metric Nuts and Washers

Zinc Plated

Description	Digi-Key Part No.	Pricing	
		100	1,000
Hex Nuts			
M2 Metric Hex Nut	H761-ND§	3.60	28.80
M3 Metric Hex Nut	H762-ND§	3.84	30.72
M4 Metric Hex Nut	H763-ND★	4.20	33.60
M5 Metric Hex Nut	H764-ND	4.80	38.40
M6 Metric Hex Nut	H765-ND★	5.34	42.72
Split Lock Washers			
M2 Lock Washers	H771-ND§	5.40	43.20
M3 Lock Washers	H772-ND§	4.26	34.08
M4 Lock Washers	H773-ND★	4.74	37.92
M5 Lock Washers	H774-ND	5.34	42.72
M6 Lock Washers	H775-ND★	6.30	50.40
Flat Washers			
M2 Flat Washers	H766-ND	3.30	26.40
M3 Flat Washers	H767-ND	3.60	28.80
M4 Flat Washers	H768-ND★§	3.66	29.28
M5 Flat Washers	H769-ND	3.75	30.00
M6 Flat Washers	H770-ND★§	4.80	38.40

Digi-Key® Metric Hardware Kits

Sizes M2 and M3. Zinc Plated.
1400 pieces total.
100 pieces each of the following:

§**1605-KIT-ND** (Phillips). **$59.95**

Sizes M4 and M6. Zinc Plated.
1500 pieces total.
100 pieces each of the following:

★**1606-KIT-ND** (Phillips) **$99.95**

Phillips, Panhead Machine Screws

Stainless Steel

Description	Digi-Key Part No.	Pricing	
		100	1,000
2-56 x 1/4	H700-ND★	2.64	21.12
2-56 x 1/2	H701-ND★	3.84	30.72
2-56 x 3/4	H702-ND★	4.98	39.84
4-40 x 1/4	H703-ND★	2.88	23.04
4-40 x 5/16	H704-ND★	3.34	26.74
4-40 x 1/2	H705-ND★	3.79	30.29
4-40 x 3/8	H782-ND	3.60	28.80
4-40 x 5/8	H706-ND★	4.16	33.31
4-40 x 3/4	H707-ND★	6.36	50.88
6-32 x 1/4	H708-ND†	4.08	32.64
6-32 x 5/16	H709-ND	4.39	35.09
6-32 x 3/8	H710-ND	4.51	36.10
6-32 x 1/2	H711-ND†	4.56	36.48
6-32 x 5/8	H712-ND	5.52	44.16
6-32 x 3/4	H713-ND†	5.38	43.01
6-32 x 1	H714-ND	6.64	53.09
8-32 x 3/8	H715-ND†	6.16	49.25
8-32 x 1/2	H716-ND†	6.70	53.62
8-32 x 5/8	H717-ND	7.33	58.66
8-32 x 3/4	H718-ND†	8.54	68.35
8-32 x 1	H719-ND	9.94	79.49
10-32 x 1/2	H720-ND†	9.31	74.50
10-32 x 3/4	H721-ND†	11.68	93.46
10-32 x 1	H722-ND†	14.74	117.89

Stainless Steel Nuts and Washers

Description	Digi-Key Part No.	Pricing	
		100	1,000
Hex Nuts			
No. 2 - 56 Hex Nut	H723-ND★	4.99	39.94
No. 4 - 40 Hex Nut	H724-ND★	4.13	33.02
No. 6 - 32 Hex Nut	H725-ND†	5.57	44.54
No. 8 - 32 Hex Nut	H726-ND†	5.95	47.62
No. 10 - 32 Hex Nut	H727-ND†	6.05	48.38
Internal Tooth Lock Washers			
No. 2 Lock Washer	H728-ND★	3.55	28.42
No. 4 Lock Washer	H729-ND★	2.50	19.97
No. 6 Lock Washer	H730-ND†	2.30	18.43
No. 8 Lock Washer	H731-ND†	2.88	23.04
No. 10 Lock Washer	H732-ND†	3.07	24.58
Flat Washers			
No. 2 Flat Washer	H733-ND★	2.30	18.43
No. 4 Flat Washer	H734-ND★	3.36	26.88
No. 6 Flat Washer	H735-ND	3.66	29.28
No. 8 Flat Washer	H736-ND	3.90	31.20
No. 10 Flat Washer	H737-ND	4.74	37.92

Digi-Key® Stainless Steel Hardware Kits

Sizes #2 and #4.
1400 pieces total.
100 pieces each of the following:

★**1607-KIT-ND** (Phillips) **$39.95**

Sizes #6, #8, and #10.
1500 pieces total.
100 pieces each of the following:

†**1608-KIT-ND** (Phillips) **$79.95**

KEYSTONE PC Test Points

Features: • Color keyed for visibility and quick identification • Economical choice for PC test point terminations • Snap-fit mounting provides positive retention for wave soldering • Wire form loop for safe, non-slip testing • Space saving, ultra low and low profile designs • High profile for difficult to reach applications • Suitable for high density packaging on .062” (1.57mm) & .093” (2.36mm) PC boards • Practical replacement for wire-wrap posts and turrets • Secure grip for J hooks, EZ hooks, grabbers, alligator clips, tips or probes • Plastic base strengthens terminal for positive holding power • Ideal for reliable production testing and field service troubleshooting

Fig. 1 Miniature

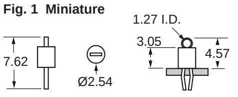


Fig. 2 Compact

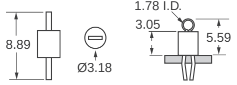


Fig. 3 Multipurpose

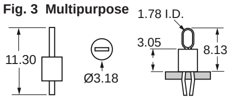


Fig. 4

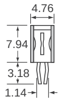


Fig.	Base Color	Digi-Key Part No.	Price Each 10	100	500	Keystone Part No.
1	Red	5000K-ND	.23	.17	.16	5000
	Black	5001K-ND	.23	.17	.16	5001
	White	5002K-ND	.23	.17	.16	5002
	Orange	5003K-ND	.23	.17	.16	5003
	Yellow	5004K-ND	.23	.17	.16	5004
2	Red	5005K-ND	.23	.18	.16	5005
	Black	5006K-ND	.23	.18	.16	5006
	White	5007K-ND	.23	.18	.16	5007
	Orange	5008K-ND	.23	.18	.16	5008
	Yellow	5009K-ND	.23	.18	.16	5009
3	Red	5010K-ND	.23	.18	.16	5010
	Black	5011K-ND	.23	.18	.16	5011
	White	5012K-ND	.23	.18	.16	5012
	Orange	5013K-ND	.23	.18	.16	5013
	Yellow	5014K-ND	.23	.18	.16	5014
4	Red	6043K-ND	1.27	1.00	.91	6043
	Black	6044K-ND	1.27	1.00	.91	6044

KEYSTONE SMT Test Points

Miniature • Ultra low profile ideally suited for advanced surface mount printed circuit board applications • Designed for long life and durability • Manufactured using flat wire to provide a large mounting surface area • Ideal for use with miniature probes, clips, and hooks • Efficient, safe, board level testing.
Compact • Unique design provides exceptional strength and durability • Simplifies testing on dense SMT circuit boards • Ideal for use with most standard probes, clips and hooks • Efficient, safe, board level testing

Fig. 1 Miniature

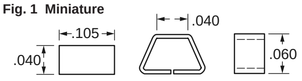


Fig. 2 Compact

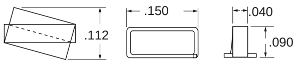


Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 50	250	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Keystone Part No.
1	Miniature	5015KCT-ND	.25	.22	.18	5015KTR-ND	108.55	5015
2	Compact	5016KCT-ND	.23	.20	.17	5016KTR-ND	100.93	5016

KEYSTONE Binding Post

Fig. 1

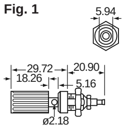


Fig. 2

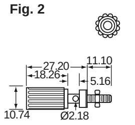


Fig. 3

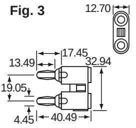
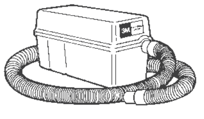


Fig.	Description	Base Color	Digi-Key Part No.	Price Each 10	100	Keystone Part No.
1	Standard	Red	7004K-ND	3.68	2.89	7004
1	Standard	Black	7005K-ND	3.68	2.89	7005
2	Economy	Red	7006K-ND	4.10	3.22	7006
2	Economy	Black	7007K-ND	4.10	3.22	7007
3	Dual Banana Plugs	Red	6088K-ND	11.38	8.95	6088K
3	Dual Banana Plugs	Black	6089K-ND	11.38	8.95	6089K

3M Electronics Vacuum and Accessories

Electronic Vacuum



Complete with hose, 32” - 10 ft. (81.28cm - 3.05 meters), wand, crevice tool, crevice tool brush, dusting brush, needle nozzle, 3-year warranty.

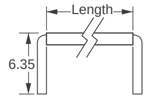
OPTIONS: Shoulder strap with shoulder pad.

SPECIFICATIONS: Electrical: 115 VAC, 50/60Hz, 5.0 amps. **Dimensions:** Length: 17.80” (45.21cm). Width: 7.75” (19.69cm). Height: 9.25” (23.50cm). Weight: 9 lbs. 14 oz. (4.48kg). **Motor:** 1HP, continuous duty, thermally protected with automatic reset. Conducted RFI filtered (reduces EMI to be below FCC requirements).

Filter: Type 1, Small Particle: For trapping extremely fine particles. Typical applications color laser printers, color copiers and highly sensitive equipment. **Type 2, Medium Particle:** Designed to trap unwanted toner from copiers and laser printers, cleaning typewriters and data processing equipment.

Description	Digi-Key Part No.	Price Each 1	10	3M Part No.
Electronic Vacuum Cleaner 115 Vac	SCP148-ND	220.88	206.15	SV-497AJM
Carrying Strap with Shoulder Pad	SCP149-ND	9.98	9.31	SV-CS1
Type 1 Filter, Small Particle	SCP150-ND	22.79	21.27	SV-SPF1
Type 2 Filter, Medium Particle	SCP151-ND	12.81	11.96	SV-MPF2
Replacement Hose for Electronic and Tool Case Vacuum Cleaners				
30” Hose, Stretches to Approx. 10’	SCP230-ND	33.00	—	SV-SH32
50” Hose, Stretches to Approx. 16’	SCP231-ND	60.00	—	SV-SH50

3M Breadboard Jumper Wire Kit



• 350 wires • 14 different lengths • Wire is stripped • Leads bent 907 • Length is classified by color coding • Wire is solid tinned 22 gauge • PVC insulation.

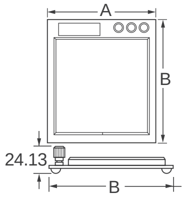
Kit contains 25 each of 14 different lengths.

923351-ND $27.24

Replacement Wire

Length In. (mm)	Qty./ Pkg.	Color	Digi-Key Part No.	Price/ Pkg.
0.1 (2.54)	200	(No Insulation)	923345-01-ND	
0.2 (5.08)	200	Red	923345-02-ND	
0.3 (7.62)	200	Orange	923345-03-ND	
0.4 (10.16)	200	Yellow	923345-04-ND	
0.5 (12.70)	200	Green	923345-05-ND	
0.6 (15.24)	150	Blue	923345-06-ND	$9.78 per Pkg.
0.7 (17.78)	150	Violet	923345-07-ND	
0.8 (20.32)	150	Gray	923345-08-ND	
0.9 (22.86)	150	White	923345-09-ND	
1.0 (25.40)	100	Brown	923345-10-ND	
2.0 (50.80)	100	Red	923345-20-ND	
3.0 (76.20)	75	Orange	923345-30-ND	
4.0 (101.60)	75	Yellow	923345-40-ND	
5.0 (127.00)	75	Green	923345-50-ND	

3M A●C●E Board™
Solderless Breadboards



FEATURES:

• 0.1” x 0.1” (2.54mm) solderless tie point matrix accepts all DIP sizes and a wide variety of discrete components with lead diameters up to .032” (.81mm) • Capacities range from 610 to 5424 tie points

• Accommodate from 6 to 54, 14 pin DIPs • Separate distribution bases for power, ground and signal lines • Molded alphanumeric grid for faster, easier tie point identification • Circuit elements are easily connected with #22 AWG solid wire • Strip bodies are constructed of durable Acetal Copolymer with Alloy 688 terminals • Durable baseplates keep boards stationary during use and help to minimize noise and voltage spikes in today’s high speed circuits.

AxCxE Model	DIP Capacity (Size)	Base Dim. Inch (cm) A	B	Total Tie Points	Total 5-Tie Point Term.	Binding Posts	Digi-Key Part No.	Price Each
354	54(14-Pin)	14.69 (37.31)	9.75 (24.77)	5424	768	4	922354-ND	111.56
345	45(14-Pin)	12.44 (31.60)	9.75 (24.77)	4520	640	4	922345-ND	91.07
336	36 (14-Pin)	10.25 (26.04)	9.25 (23.50)	3648	512	4	922336-ND	72.65
327	27 (14-Pin)	8.0 (20.32)	9.25 (23.50)	2712	384	4	922327-ND	55.88
318	18 (14-Pin)	7.75 (19.69)	6.25 (15.88)	1824	256	3	922318-ND	43.71
309	9 (14-Pin)	7.0 (17.78)	4.0 (10.16)	840	128	3	922309-ND	21.89
306	6 (14-Pin)	5.4 (13.72)	4.0 (10.16)	610	94	2	922306-ND	22.19

3M Super Strips and Circuit Strips

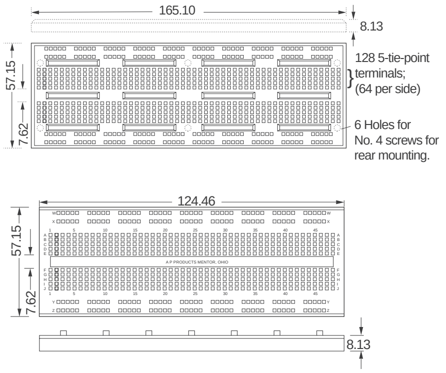
Universal Breadboarding Elements with Solderless Plug-In Tie Points

As with all solderless breadboarding units from 3M, components simply plug-in and are interconnected with ordinary solid hook-up wire; #22 AWG is recommended.

All sizes of DIPs and discrete components with lead diameters up to .032” (.82mm) can be accommodated.

These handy strips may be permanently mounted with the integral non-shorting instant-mounting backing, or for quick removal, they may be mounted with screws on panels up to 1/8” (3.18mm) thick.

Hardware and mounting templates are provided with every strip.


165.10
8.13
57.15
7.62
128 5-tie-point terminals; (64 per side)
6 Holes for No. 4 screws for rear mounting.
124.46
57.15
7.62
8.13

SPECIFICATIONS

	SUPER-STRIP	CIRCUIT-STRIP
Size:	2.25” x 6.50” x .32” (57.15mm x 165.10mm x 8.13mm)	2.25” x 4.90” x .32” (57.15mm x 124.46mm x 8.13mm)
Plug-In Tie-Points:	840	610
Materials: Body	Acetal Copolymer	Acetal Copolymer

SUPER-STRIP Terminals	Part No.	Price Each	CIRCUIT-STRIP Terminals	Part No.	Price Each
Alloy 770	923252-ND	21.89	Alloy	923253-ND	15.44
Gold (10m)	923748-ND	69.21	Gold (10m)	923749-ND	57.89

VECTOR ELECTRONICS & TECHNOLOGY, INC

Prototype Boards

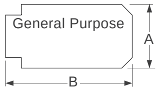
Vector Prototyping Boards with punched holes are convenient economical tools for assembling circuit components and cost effective alternatives to custom designs. Use general purpose Plugboards and Bus specific for edgeboard connection prototyping, while Circboards are ideal for cutting down to smaller board sizes.

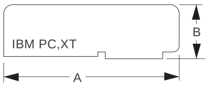
• Holes on 0.1" (2.54mm) grid .042" (1.07mm) dia. (.043" [1.09mm] on V1018 and V1029) • Ejector Hole • Plating: Gold/Nickel • Board Material: Epoxy Glass Composite.

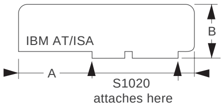
IBM PC, XT and AT Expansion Units. • Marked edge contact identification • Gold plated edge contacts on 0.1" centers • Power & ground buses terminate to connectors • Pads on board & bracket accepts DB9-, 15-, 25- or 37-Pin I/O connector • Accepts Vector's press terminals for wiring & soldering • Holes are .042" (1.07mm) dia. or 0.1" (2.54mm) grid • 1/16" (1.59mm) thick epoxy glass material, gold/nickel contacts • Universal mounting bracket and card guide incl. • Layout planning sheets & instructions incl. • Plugs into any IBM AT slot with dual connectors (AT unit only) • Pads for mounting dual, row 0.1" (2.54mm) spaced header (AT unit only).

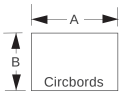
Circbords™ • .042" (1.07mm) dia. holes on 0.1" (2.54mm) grid • 1/16" (1.59mm) thick, epoxy glass composite boards • Flame retardant • Etched copper patterns are solder plated.

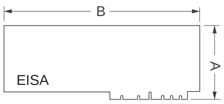
EISA • Accepts DIPs, PGAs, PLCC, most component geometries • Multilayer design ensures signal handling integrity • Mounting area for D-sub and ribbon header connectors • On-board I/O break out field at connector for circuit analysis • Solder coated

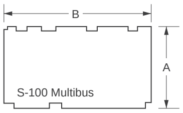




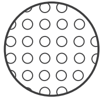






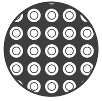


A



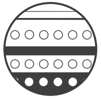
Bare Board

B1/B2



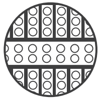
Pad per Hole

C



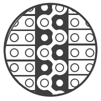
Buses only

D



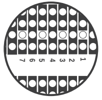
3 Hole Solder Pad

E



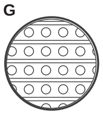
3 Hole with Zig Zag

F



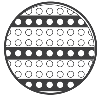
Voltage/Gnd. Planes

G



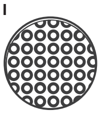
Continuous Buses

H



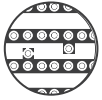
Interleaved Buses

I



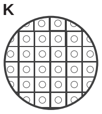
Ground Plane

J



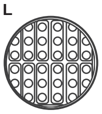
Volt/Gnd. Planes

K



Square Pad per Hole

L



3 Hole Solder

PC BOARD PATTERNS

A	Edgeboard Contacts Only
B1	Pad Per Hole W/ Buses
B2	Pad Per Hole Only
C	Buses Only Around Bare Board
D	3-Hole Solder Pad W/Buses
E	3-Hole Solder Pad, Zig-Zag Buses & Ground Plane
F	Voltage/Gnd. Planes
G	Buses Only - 2 Sides
H	Interleaved Buses
I	Clearance-Hole Ground Plane
J	Voltage/Ground Planes
K	Pad-Per-Hole Only
L	3-Hole Solder Pad

PCB Pattern	Edge Contacts		Dimensions Inch (cm)		16-Pin Dip Cap.	Digi-Key Part No.	Price Each			Accessories				Vector Part No.
										Connectors				
	No.	Spacing In. (mm)	A	B			1	10	25	Solder Tail	Wire Wrap	Card Extender	Card Racks	
General Purpose Plugboards														
A	44	.156" (3.96)	4.50 (11.43)	4.50 (11.43)	40	V1017-ND	18.18	15.99	14.19	V1062	V1196	V1024	V1050-52	3662-5
A			4.50 (11.43)	6.50 (16.51)	50	V1016-ND	20.44	17.97	15.95	V1062	V1196	V1024	V1050-52	3662
A			4.50 (11.43)	9.60 (24.38)	90	V1129-ND	26.39	23.20	20.59	V1062	V1196	V1024	V1050	3662-2
B1/B1			4.50 (11.43)	6.50 (16.51)	45	V1018-ND	32.76	28.80	25.56	V1062	V1196	V1024	V1050-52	3662-9
H			4.50 (11.43)	6.50 (16.51)	24	V1023-ND	27.28	23.99	21.29	V1062	V1196	V1024	V1050-52	3682-2
D			4.50 (11.43)	6.50 (16.51)	12	V1020-ND	21.84	19.20	17.04	V1062	V1196	V1024	V1050-52	3677-2
E			4.50 (11.43)	9.60 (24.38)	40	V1128-ND	34.56	30.39	26.97	V1062	V1196	V1024	V1050	4112
E			4.50 (11.43)	6.50 (16.51)	25	V1031-ND	27.30	24.00	21.30	V1062	V1196	V1024	V1050-52	4112-4
E			4.50 (11.43)	4.50 (11.43)	8	V1032-ND	25.48	22.40	19.88	V1062	V1196	—	—	4112-5
D			4.50 (11.43)	9.60 (24.38)	21	V1019-ND	26.39	23.20	20.59	V1062	V1196	V1080	V1053	3677
—			4.50 (11.43)	6.50 (16.51)	24	V1130-ND	39.82	35.01	31.07	V1062	V1196	V1024	V1050	3682-4
I			4.50 (11.43)	6.50 (16.51)	90	V1131-ND	32.76	28.80	25.56	V1062	V1196	V1024	V1050	3662A6
A	72	.100 (2.54)	4.50 (11.43)	6.50 (16.51)	50	V1027-ND	24.57	21.60	19.17	S1364	V1061	V1079	V1050-52	3719-1
B1			4.50 (11.43)	6.50 (16.51)	40	V1029-ND	40.04	35.20	31.24	S1364	V1061	V1079	V1050-52	3719-6
—			4.50 (11.43)	6.50 (16.51)	34	V1132-ND	31.69	27.86	24.73	S1364	V1061	V1024	V1050	4066-4
A			4.50 (11.43)	9.60 (24.38)	90	V1028-ND	27.28	23.99	21.29	S1364	V1061	V1079	V1053	3719-4
IBM PC, XT (Standard Bus)														
D	56	.125	4.50 (11.43)	6.50 (16.51)	20	V1111-ND	28.21	24.80	22.01	S2284	—	V1115	V1050-52	4610V
A			4.50 (11.43)	6.50 (16.51)	59	V1112-ND	37.93	33.35	29.60	S2284	—	V1115	V1050-52	4610-1
B1/B2			4.50 (11.43)	6.50 (16.51)	52	V1114-ND	40.04	35.20	31.24	S2284	—	V1115	V1050-52	4610-3
IBM AT/ISA Expansion Units*														
C	(XT)	(2.54)	13.23 (33.60)	4.20 (10.67)	84	V1036-ND	56.17	49.38	43.83	S1314	—	V1025	—	4613-1
B1			13.23 (33.60)	4.20 (10.67)	91	V1038-ND	56.75	49.89	44.28	S1314	—	V1025	—	4613-3
D	62/36 (AT)	.100 (2.54)	13.25 (33.66)	4.80 (12.19)	—	V1039-ND	70.96	62.39	55.37	—	—	V1026	—	4617
C			13.25 (33.66)	4.80 (12.19)	108	V1040-ND	58.97	51.84	46.01	—	—	V1026	—	4617-1
B1			13.25 (33.66)	4.80 (12.19)	—	V1041-ND	72.25	63.52	56.38	—	—	V1026	—	4617-3
I	98	.100 (2.54)	13.25 (33.66)	4.80 (12.19)	140	V1137-ND	72.25	63.52	56.38	S1499-967	—	—	—	4617-4
—			13.25 (33.66)	4.80 (12.19)	140	V1138-ND	82.70	72.71	64.53	S1499-967	—	—	—	4617-5
—	49/98	.1 (2.54)	—	—	—	S1020-ND	3.12	24.75	—	PCB Expansion Port Edge Card				
CIRCBORDS (Plugboard Patterns Without The Expense Of Edgeboard Connectors)														
G	—	—	4.00 (10.16)	6.00 (15.24)	15	V1035-ND	17.44	15.33	13.61	—	—	—	—	8019
D	—	—	4.50 (11.43)	6.50 (16.51)	20	V1044-ND	18.18	15.99	14.19	—	—	—	—	8001
H	—	—	4.50 (11.43)	6.50 (16.51)	35	V1045-ND	20.02	17.60	15.62	—	—	—	—	8002
K	—	—	4.50 (11.43)	6.50 (16.51)	60	V1046-ND	20.00	17.59	15.61	—	—	—	—	8003
I	—	—	4.50 (11.43)	6.50 (16.51)	50	V1047-ND	21.84	19.20	17.04	—	—	—	—	8004
B2/B2	—	—	5.00 (12.70)	13.25 (33.66)	154	V1048-ND	40.02	35.19	31.23	—	—	—	—	8006
B2/J	—	—	4.50 (11.43)	6.50 (16.51)	60	V1049-ND	21.82	19.19	17.03	—	—	—	—	8007
D	—	—	4.50 (11.43)	8.08 (20.52)	21	V1021-ND	17.42	15.32	13.59	—	—	—	—	3677-6
K/K	—	—	4.50 (11.43)	8.08 (20.52)	80	V1034-ND	22.75	20.00	17.75	—	—	—	—	45P80-1
B2/B2	—	—	10.60 (26.92)	10.60 (26.92)	275	V1001-ND	57.33	50.40	44.73	—	—	—	—	106P106-1
—	—	—	18.00 (45.72)	10.69 (27.15)	—	V1116-ND†	146.91	129.16	114.63	—	—	—	—	106P180-4
B2/B2	—	—	12.86 (32.66)	4.00 (10.16)	124	V1117-ND	80.01	70.34	62.43	—	—	—	—	8010
B2/B2	—	—	11.00 (27.94)	9.20 (23.37)	283	V1118-ND	58.24	51.20	45.44	—	—	—	—	8012
CIRCBORDS 2mm and Combo 2mm x .1" Board														
B2	—	—	6.3 (16.0)	3.94 (10.0)	—	V2013-ND•	15.93	14.00	12.43	—	—	—	—	8017
B2	—	—	6.3 (16.0)	3.94 (10.0)	—	V2014-ND‡	15.91	13.99	12.42	—	—	—	—	8018
NEW! CIRCBORD 1mm Pad Per Hole - Prototyping Board NEW!														
B2	—	—	6.3 (16.0)	3.94 (10.0)	—	V2016-ND	27.30	24.00	21.30	—	—	—	—	8020
Low Cost Prototype CIRCBORDS														
B2/B2	—	—	4.00 (10.16)	6.00 (15.24)	40	V2009-ND	10.47	9.20	8.17	—	—	—	—	8015
B2	—	—	4.00 (10.16)	4.00 (10.16)	40	V2010-ND	6.66	5.86	5.20	—	—	—	—	8015-1
B2/B2	—	—	6.00 (15.24)	9.00 (22.86)	60	V2011-ND	15.38	13.52	12.00	—	—	—	—	8016
B2	—	—	6.00 (15.24)	6.00 (15.24)	60	V2012-ND	9.63	8.47	7.52	—	—	—	—	8016-1
EISA Prototyping Boards														
B1	188	.050 (1.27)	4.50 (11.43)	13.25 (33.66)	—	V1107-ND	269.41	236.85	210.21	—	—	V1108	—	4619-3
—			13.25 (33.66)	4.50 (11.43)	140	V1139-ND	295.22	259.54	230.34	—	—	—	—	4619-5
S-100 Prototyping Boards														
B2/B2	50/100	.125 (3.18)	10.00 (25.40)	5.30 (13.46)	80	V1134-ND	63.75	56.05	49.75	—	—	—	—	8801-6
A	50/100		10.00 (25.40)	5.30 (13.46)	110	V1135-ND	52.45	46.12	40.93	—	—	—	—	8801-1
F/F	50/100		10.00 (25.40)	5.30 (13.46)	—	V1136-ND	63.61	55.92	49.63	—	—	—	—	8804
VME/Euro Circboard Prototyping Boards														
B1	—	—	3.94 (10.01)	6.3 (16.00)	35	V1222-ND	16.36	14.39	12.77	—	—	—	—	E160-3U-1
I	—	—	3.94 (10.01)	6.3 (16.00)	45	V1223-ND	23.64	20.79	18.45	—	—	—	—	E160-3U-3
B1	—	—	6.3 (16.0)	9.19 (23.34)	100	V1226-ND	29.10	25.59	22.71	—	—	—	—	E160-6U-1
I	—	—	6.3 (16.0)	9.19 (23.34)	105	V1227-ND	25.46	22.39	19.87	—	—	—	—	E160-6U-3
L	—	—	6.3 (16.0)	3.94(10.01)	20	V1224-ND	27.28	23.99	21.29	—	—	—	—	4614
B1	—	—	6.3 (16.0)	3.94(10.01)	30	V1225-ND	29.10	25.59	22.71	—	—	—	—	4614-3
D	—	—	6.3 (16.0)	9.19 (23.34)	50	V1228-ND	32.74	28.79	25.55	—	—	—	—	4615
B1	—	—	8.66 (22.0)	9.19 (23.34)	140	V1229-ND	45.48	39.99	35.49	—	—	—	—	E220-6U-1
C	—	—	8.66 (22.0)	9.19 (23.34)	140	V1230-ND	40.02	35.19	31.23	—	—	—	—	E220-6U-2
F	—	—	8.66 (22.0)	9.19 (23.34)	168	V1231-ND	26.39	23.20	20.59	—	—	—	—	E220-6U-3
F	—	—	11.02 (28.0)	14.44 (36.68)	348	V1232-ND	60.04	52.79	46.85	—	—	—	—	E280-9U-3

* IBM is a registered trademark of International Business Machines. Apple II and IIe are trademarks of Apple Computer, Inc.
† V1116-ND has pad per hole with PTH, GND plane both sides.
• 2mm board only. ‡ 2mm x .1" combo board.

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Circuit Board Accessories

Contacts slip on .025” (.64mm) squared wrap or pins. Contacts are tin plated, and offered in a reel of contacts wired together, “daisy-chain” style, to 28 gauge blue insulated wire. Each contact is spaced 5” (127mm) apart. Sold in reels of 50.

Fig. 1

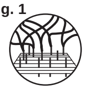


Fig. 2

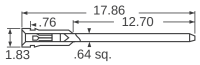


Fig. 3

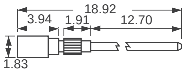


Fig. 4

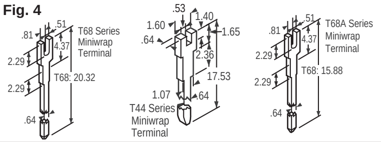


Fig. 5A

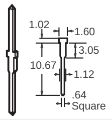


Fig. 5B

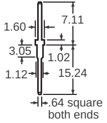


Fig. 6

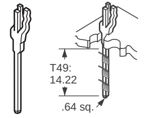
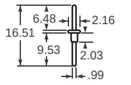


Fig. 7



Material: Phosphor bronze

Fig. 8

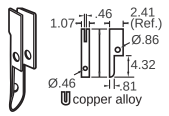


Fig. 9

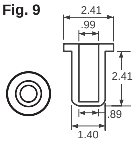


Fig. 10

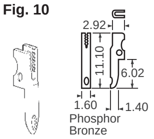
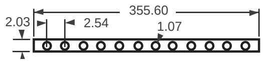
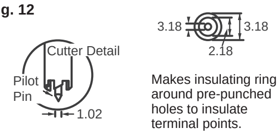


Fig. 11



Install on circuit boards as an alternative to etched bus lines.

Fig. 12



Makes insulating rings around pre-punched holes to insulate terminal points.

Fig. 13

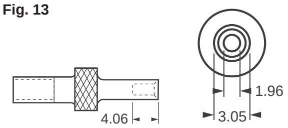


Fig. 14

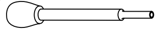


Fig. 15

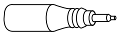


Fig. 16

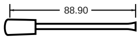


Fig. 17

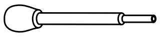
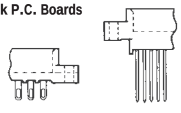


Fig. 18

Fig.	Description	Pkg. Qty.	Digi-Key Part No.	Price Each		Vector Part No.
				1	10	
1	Slip-On contacts For Tab-To-Wire Connection	50	V1065-ND	118.30	104.00	T120-1/50
2	Lo-Profile IC Socket Pins for .055” (1.40mm) Dia. Holes, Wrap Post	100	V1058-ND	27.01	23.75	R31/C
3	Lo-Profile IC Socket Pins for .042” (1.07mm) Dia. Holes, Wrap Post	100	V1059-ND	32.32	28.42	R32/C
	Lo-Profile IC Socket Pins for .042” (1.07mm) Dia. Holes, Wrap Post	1000	V1060-ND	236.58	207.99	R32/M
4	T44 Series Bifurcated Miniwrap Term. with .025” (.64mm) Sq. Posts	100	V1071-ND	9.50	8.36	T44/C
	T44 Series Bifurcated Miniwrap Term. with .025” (.64mm) Sq. Posts	1000	V1072-ND	54.67	48.07	T44/M
	T68 Series Bifurcated Miniwrap Term. with .025” (.64mm) Sq. Posts	100	V1077-ND	8.81	7.75	T68/C
	T68 Series Bifurcated Miniwrap Term. with .025” (.64mm) Sq. Posts	1000	V1078-ND	51.91	45.64	T68/M
	T68A Series Miniwrap Terminal	1000	V1110-ND	96.95	85.24	T68A/M
5A	Press-In Terminals with .025” (.64mm) Sq. Posts	1000	V1073-ND	85.89	75.51	T46-4-9/M
5B	Press-In Terminals with .025” (.64mm) Sq. Posts	100	V1074-ND	12.85	11.30	T46-5-9/C
6	Trifurcated Klipwrap Terminals with .025” (.64mm) Sq. Posts	100	V1075-ND	13.21	11.62	T49/C
	Trifurcated Klipwrap Terminals with .025” (.64mm) Sq. Posts	1000	V1076-ND	116.73	102.63	T49/M
7	Inboard Pins for 1/16” (1.60mm) Boards with .042” (1.07mm) Dia. Holes, Gold	1000	V1054-ND	91.00	80.00	K24A/M
	Inboard Pins for 1/16” (1.60mm) Boards with .042” (1.07mm) Dia. Holes, Tin	1000	V1055-ND	54.58	47.99	K24C/M
8	Micro-Klip Term. for 1/16” (1.60mm) Boards, .042” (1.07mm) Dia. Holes, Tin	100	V1069-ND	8.77	7.72	T42-1/C
	Micro-Klip Term. for 1/16” (1.60mm) Boards, .042” (1.07mm) Dia. Holes, Tin	1000	V1070-ND	42.11	37.03	T42-1/M
9	Rolled Flange Eyelet	500	V1066-ND	30.05	26.42	T123/500
10	Mini-Klip Term. for 1/16” (1.60mm) Boards with .062” (1.574mm) Dia. Holes, Tin	100	V1067-ND	9.01	7.92	T28/C
	Mini-Klip Term. for 1/16” (1.60mm) Boards with .062” (1.574mm) Dia. Holes, Tin	1000	V1068-ND	48.12	42.31	T28/M
11	Bus Strips With Round Punched Holes	10	V1064-ND	8.95	7.88	T107/10
12	Pad Cutter Tool with Handle, .040” (1.02mm) Holes For Copper Clad Boards	1	V1056-ND	50.83	44.69	P138A
	Pad Cutter Tool Shank only, .040” (1.02mm) Holes For Copper Clad Boards	1	V1057-ND	61.12	53.73	P138C
14	Hand Insertion Tool for T44		V1098-ND	22.13	19.46	A13
14	Hand Insertion Tool for T68		V1099-ND	23.53	20.69	A13-1
15	Hand Insertion Tool for T49		V1100-ND	21.55	18.95	P156V
16	Hand Insertion Tool for T42-1		V1101-ND	29.54	25.97	P149V
17	Hand Insertion Tool for K24A, T46		V1103-ND	61.90	54.42	P133A
18	Hand Insertion Tool for R31, R32		V1104-ND	104.61	91.97	P158V
13	Die for R32 Socket Pins		V1106-ND	57.77	50.79	D9
—	Die for R31 Socket Pins		V1173-ND	22.84	20.08	D10

Edgeboard Connectors

For 1/16" (1.60mm) Thick P.C. Boards



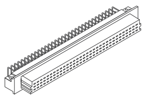
Solder Eyelet Type Insulator Material: Phenolic, UL-94V-0 or Glass filled diallyl; Phthalate UL-94V-1 or Ryton R10. **Wrap Tail Type Insulator Material:** Phenolic, UL-94V-0 or Glass filled diallyl; Phthalate UL-94V-1 or Polyester (VALOX) UL-94V-0. **Contact Material:** Phosphor bronze QQ-B-750 or Beryllium copper. **Contact Plating:** .000010” gold over .000050” nickel. **Test Voltage:** 650 VAC. **Rated Current:** 3 Amps. **Contact Res. Drop: 30 Mv Max** @ rated current. **Insulation Resistance:** 5000 megohms, mon. @ 500 VDC.

Ctrs. In. (mm)	No. Of Contacts	Termination Type	Mounting Ears	Digi-Key Part No.	Price Each			Vector Part No.
					1	10	25	
.100 (2.54)	72	Wrap Tail	Center	V1061-ND†*	18.04	15.86	14.08	R636-1
.156 (3.96)	44	Solder Eye	Flush	V1062-ND††	11.90	10.47	9.29	R644
.156 (3.96)	44	Wire Wrap	Flush	V1195-ND	10.57	9.30	8.26	R644-3F
.156 (3.96)	44	Wire Wrap	Center	V1196-ND	10.57	9.30	8.26	R644-3C

† Supplied with between-contact polarizing key. * Wrap Tail: 3-level, .025” (.64mm) Sq.
†† Supplied with between-contact polarizing key and in-contact polarizing key.

Edgeboard Connectors

96 Pin Din

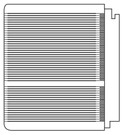


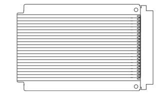
Connector Material: Glass filled polycarbonate or polyester sulphane
Temp. Rating: -55°C ~ +105°C

Termination Type	Male/ Female	Digi-Key Part No.	Price Each			Vector Part No.
			1	10	25	
Right Angle PC Mount	Female	V1233-ND	13.63	11.99	10.64	RE96FSR
Right Angle Wire Wrap	Female	V1250-ND *NEW!*	17.45	15.35	13.62	RE96FWR
Right Angle PC Mount	Male	V1235-ND	9.56	8.40	7.46	RE96MSR-062
Right Angle Long Lead PCB	Male	V1236-ND	11.81	10.39	9.22	RE96MSR-125
Right Angle Wire Wrap	Male	V1243-ND	18.87	16.60	14.73	RE96MWR
Straight Wire Wrap	Female	V1237-ND	10.90	9.59	8.51	RE96FW
Straight Wire Wrap	Male	V1238-ND	11.99	10.55	9.36	RE96MW
Straight PC Mount	Female (AutoBus)	V1239-ND	17.75	15.60	13.85	RE96FABG
Straight PC Mount	Female	V1234-ND	11.85	10.42	9.25	RE96FSD
Straight Press-Fit	Female	V1240-ND	7.26	6.39	5.67	RE96FSP
Straight Press-Fit Wire Wrap	Female	V1241-ND	11.81	10.39	9.22	RE96FWP

Card Extenders

Current rating: 5A @ 108°F temp. rise; **Voltage rating**: 200 RMS or 300 VDC. Circuit contacts are gold/nickel plated .000010” gold over .000050” nickel. **Connector contacts**: Gold inlay .000030” thick, on CA725 copper/nickel alloy base. **Board**: epoxy glass composite - 2 oz. copperclad or FR4 per MIL-P-13949.





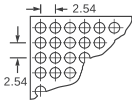
Vector Card Extenders are specifically designed to provide in-system testing of functioning circuit boards.

Total	Contacts		Dimensions Width x Height Inch (cm)	Bus System Application	Digi-Key Part No.	Price Each		Vector Part No.
	Each Side	Ctrs. In. (mm)				1	10	
44	22	.156 (3.96)	4.5 x 6.5 (11.43 x 16.51)	—	V1024-ND	38.22	33.60	3690
36/62	18/31	.100 (2.54)	6.7 x 5.6 (17.02 x 14.22)	IBM AT	V1026-ND	72.78	63.99	3690-26
62	31	.100 (2.54)	3.18 x 5.7 (8.08 x 14.48)	IBM PC	V1025-ND	73.58	64.69	3690-22
72	36	.100 (2.54)	4.5 x 11.5 (11.43 x 29.21)	—	V1143-ND	68.49	60.21	3690-2
60/86	30/43	.1/.156 (2.54/3.96)	12 x 7.5 (30.48 x 19.05)	Multibus I	V1095-ND	112.77	99.14	3690-18
188	94	.050 (1.27)	6.7 x 5.6 (17.02 x 14.22)	EISA	V1108-ND	279.08	245.59	3690-32
56	28	.125 (3.18)	4.5 x 6.5 (11.43 x 16.51)	SDTI	V1115-ND	45.41	39.92	3690-16
100	50	—	Hgt. 7.5 (19.05)	S-100	V1144-ND	72.78	63.99	3690-12

Prepunched Insulating Boards

- Epoxy glass, except as noted
- .062” (1.57mm) thick except

‡ V1122-ND .047” (1.19mm) thick
‡ V1123-ND .031” (.79mm) thick



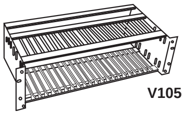
Dimensions - Inch (mm) Width x Length	Digi-Key Part No.	Price Each			Vector Part No.
		1	10	25	
Micro-Vectorboards — Holes .042” (1.07mm) Diameter; .100” (2.54mm) Grid					
4.5 x 17 (114.30 x 431.80)	V1005-ND#	11.88	10.45	9.28	169P44XXXP
4.5 x 6.5 (114.30 x 165.10)	V1043-ND#	6.44	5.67	5.03	64P44XXXP
4.5 x 17 (114.30 x 431.80)	V1004-ND	17.07	15.01	13.32	169P44WE
8 x 17 (203.20 x 431.80)	V1007-ND	26.43	23.24	20.62	169P79WE
8.5 x 17 (215.90 x 431.80)	V1011-ND	24.17	21.25	18.86	169P84WE
8.5 x 17 (215.90 x 431.80)	V1012-ND*	28.70	25.24	22.40	169P84WEC1
4.5 x 6.5 (114.30 x 165.10)	V1042-ND	6.41	5.64	5.00	64P44WE
4.5 x 17 (114.30 x 431.80)	V1002-ND†	11.12	9.78	8.68	169P44
4.5 x 17 (114.30 x 431.80)	V1003-ND*†	20.73	18.23	16.18	169P44C1
8 x 17 (203.20 x 431.80)	V1006-ND†	29.10	25.59	22.71	169P79
8.5 x 17 (215.90 x 431.80)	V1008-ND†	29.10	25.59	22.71	169P84
8.5 x 17 (215.90 x 431.80)	V1009-ND*†	33.74	29.67	26.33	169P84C1
10 x 17 (254 x 431.80)	V1013-ND†	35.65	31.35	27.82	169P99
6.5 x 4.5 (165.10 x 114.30)	V1119-ND†	6.41	5.64	5.00	64P44
4.5 x 8.5 (114.30 x 215.90)	V1120-ND	10.10	8.88	7.89	84P44WE
6 x 17 (152.40 x 431.80)	V1122-ND‡	16.67	14.66	13.01	169P59-047
6 x 17 (152.40 x 431.80)	V1123-ND‡	17.05	15.00	13.31	169P59-032
6 x 17 (152.40 x 431.80)	V1124-ND#	13.21	11.62	10.31	169P59XXXP
4.5 x 17 (114.30 x 431.80)	V1126-ND*	16.67	14.66	13.01	169P44WEC1
4.5 x 17 (114.30 x 431.80)	V1127-ND**	17.45	15.35	13.62	169P44C2
Vectorboard® — Holes .062” (1.57mm) Diameter; .100” (2.54mm) Grid					
4.8 x 17 (121.92 x 431.80)	V1014-ND	25.26	22.21	19.71	170H48WE
8.51 x 17 (216.15 x 431.80)	V1015-ND	38.77	34.08	30.25	170H85WE
8.5 x 8.5 (215.90 x 215.90)	V1121-ND	26.19	23.03	20.44	85H85WE
4.8 x 8.5 (121.92 x 215.90)	V1125-ND	13.47	11.84	10.51	85H48WE
Vectorboard® — Holes .025” (.64mm) Diameter; .050” (1.27mm) Grid					
4 x 6.5 (101.60 x 165.10)	V1140-ND	49.36	43.40	38.52	126M76-032
4 x 17 (101.60 x 431.80)	V1141-ND	64.79	56.96	50.56	336M76-032
4 x 17 (101.60 x 431.80)	V1142-ND*	52.98	46.58	41.34	336M76-032C1
Vectorboard® — Holes .025” (.64mm) Diameter; .079” (2mm) Grid					
3.94 x 6.3 (100 x 160)	V2015-ND	12.65	11.12	9.87	47Q78WE

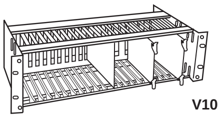
# Material: Phenolic. * Copper clad, 1 side. ** Copper clad, 2 side. WE = Epoxy Glass. † Epoxy Glass Composite

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Card Racks

Designed in accordance with EIA standard, these 19” (48.26cm) subracks are compatible with Vector prototyping boards. All racks are adjustable in both height and depth and can be used with snap-in, plastic or metal card guides. Available in kit form (CCK) or fully assembled (CCA) all models feature brushed aluminum construction with a full line of prototyping boards, extenders and backplanes available. Card racks include nylon snap-in card guides.


V1050-51-53


V1052

Card Size Range Inch (cm) Width x Height	Size Inch (cm) Width x Depth	Hgt*	Guide Mount Method	Mat-erial	Digi-Key Part No.	Price Each 1	10	Vector Part No.
3.00-5.00 x 4.5 (7.62-12.70 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1145-ND	119.03	104.64	CCK12S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1052-ND	119.03	104.64	CCK13S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1051-ND	149.33	131.28	CCA13S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Riveted	Zinc	V1050-ND	179.07	157.43	CCA13M/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1146-ND	99.44	87.43	CCK13S-H/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1147-ND	479.15	421.24	CCK13S-16/90
8.60-10.1 x 4.5 (21.84-25.65 x 11.43)	19.00 x 12.00 (48.26 x 30.48)	3U	Snap-In	Nylon	V1053-ND	155.86	137.03	CCA14S/90
8.60-10.1 x 8 (21.84-25.65 x 20.32)	19.00 x 12.00 (48.26 x 30.48)	5U	Snap-In	Nylon	V1148-ND	187.88	165.17	CCA17S/90
4.0-8.50 x 10.0 (10.16-21.59 x 25.40)	19.00 x 9.00 (48.26 x 22.86)	7U	Snap-In	Nylon	V1149-ND	151.26	132.98	CCK100S/90
4.5 X 6.5 (11.43 x 16.51)	19.00 X 9.00 (48.26 x 22.86)	3U	Guide Plate	Alum.	V2001-ND	161.29	141.80	CCA13C/90

* 3U = 5.25” (13.34cm); 5U = 8.75U (22.23cm); 7U= 12.25” (31.12cm)

EIA Backplanes

Description	Width x Length Inch (cm)	Plug-board Series	Digi-Key Part No.	Price Each 1	10	Vector Part No.
8 Slot CCK13 Series Backplane	4.35 x 7.00 (11.05 x 17.78)	4610	V1096-ND	216.25	190.12	4610-8-1A
16 Slot CCK13 Series Backplane	4.35 x 13.00 (11.05 x 33.02)	4610	V1097-ND	289.33	254.36	4610-16-1A

Card Rack Accessories

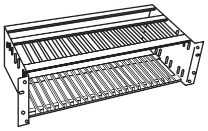
Accessories for card rack enclosures for customizing your application. Card guides are tapered slides for PCB cards to slide along. Snap-In versions provide easy installation without the need for tools. Screw mount versions (comes with hardware) allow card placement anywhere within .25” (6.35mm) spacing.

Description	Length Inch (cm)	Digi-Key Part No.	Price Each 1	10	Vector Part No.
Optional Assemblies					
Grab Handle with Hardware for Card Racks 5.25” (13.34cm) and 8.75” (22.23cm) height	—	V1161-ND	13.32	11.72	HA12
Ejector Handle with Hardware for Cards (4 pcs/bag)	—	V1162-ND	8.72	7.67	HA9/4
T-Strut 1" wide for Customizing Card Rack	16.85 (42.80)	V2002-ND	8.03	7.06	TS169
T-Strut 1" wide for Customizing Card Rack	20.85 (52.96)	V2005-ND	8.88	7.81	TS209
Hardware Kit for Backplane Connector (42 pcs/total)	—	V2006-ND	10.68	9.40	HD34
Nut 4-40 Square Head for T-Strut (25 pcs/bag)	—	V2007-ND	5.66	4.98	NT4-7PA
Flat Head Screw 4-40 THD for T-Struts (25 pcs/bag)	.25 (.64)	V2004-ND	5.10	4.48	SC4-27/25
Bracket Kit for T-Struts	—	V2000-ND	8.92	7.84	BR16A
Card Guides — Plastic Screw Mount					
Plastic Screw Mount (Pkg. of 12)	2.89 (7.34)	V1151-ND	21.57	18.96	CG2-45P
Plastic Screw Mount (Pkg. of 12)	5.42 (13.77)	V1153-ND	20.26	17.81	CG2-65P
Plastic Screw Mount (Pkg. of 12)	6.93 (17.60)	V1156-ND	20.60	18.12	CG2-80P
Plastic Screw Mount (Pkg. of 12)	8.14 (20.68)	V1160-ND	20.93	18.40	CG2-95P
Card Guides — Nylon Snap-In Mount					
Nylon Snap-In Mount (Pkg. of 12)	3.17 (8.05)	V1150-ND	13.09	11.51	CG2-45S
Nylon Snap-In Mount (Pkg. of 12)	5.42 (13.77)	V1152-ND	11.54	10.15	CG2-65S
Nylon Snap-In Mount (Pkg. of 12)	6.93 (17.60)	V1155-ND	16.96	14.92	CG2-80S
Nylon Snap-In Mount (Pkg. of 12)	8.43 (21.41)	V1158-ND	14.71	12.93	CG2-95S
Card Guides — Metal Screw Mount					
Metal Screw Mount (Pkg. of 12)	5.42 (13.77)	V1154-ND	26.14	22.98	CG2-65M
Metal Screw Mount (Pkg. of 12)	6.93 (17.60)	V1157-ND	32.92	28.95	CG2-80M

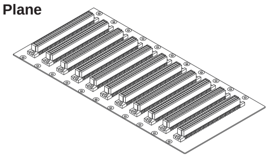
VME Card Racks

Vector VME Subracks are designed for 19” systems based on the DIN 41914 standard. Card Racks come in either completely assembled (CCA) or kit form (CCK). Card Guides are ordered separately. Vector backplanes are designed to meet VME bus Spec Rev C1 and Rev D.

Card Cage



Back Plane



Card Size	Rack Size	Hgt	Guide Mount Method	Mat-erial	Digi-Key Part No.	Price Each 1	10	Vector Part No.
Assembled Racks								
3U x 160mm	19” x 9.27	3U	Snap-In	Nylon	V1212-ND	161.49	141.97	CCA160-3U
6U x 160mm	19” x 9.27	6U	Snap-In	Nylon	V1213-ND	180.11	158.34	CCA160-6U
3U x 220mm	19” x 11.63	3U	Snap-In	Nylon	V1214-ND	173.34	152.39	CCA220-3U
6U x 220mm	19” x 11.63	6U	Snap-In	Nylon	V1215-ND	188.95	166.12	CCA220-6U
Kitted Racks								
3U x 160mm	19” x 9.27	3U	Snap-In	Nylon	V1216-ND	155.66	136.85	CCK160-3U
3U x 220mm	19” x 11.63	3U	Snap-In	Nylon	V1218-ND	154.75	136.05	CCK220-3U
6U x 220mm	19” x 11.63	6U	Snap-In	Nylon	V1219-ND	172.61	151.75	CCK220-6U
Card Guide 160mm Nylon Snap-In Mount, (pkg of 12)					V1220-ND	17.75	15.60	CG1-160/12
Card Guide 220mm Nylon Snap-In Mount, (pkg of 12)					V1221-ND	21.22	18.66	CG1-220/12

VME/DIN Backplanes

Vector Monolithic Series back planes are designed to meet VMEbus Specification Rev C1 and Rev D. All termination is placed inboard of the two end connectors to allow the maximum number of slots (21) in a 19” RETMA rack. Decoupling capacitors are provided at the ends. The resulting improved power distrubution as well as signal shielding in ground layers creates a high performance back plane with low signal cross talks. Press-fit 96-pin DIN connectors are used. AutoBusGrant (ABG): This option calls for the replacement of standard connectors with 96-pin connectors with automatic switching capability mechanically built in. They eliminate the need for manual jumpering entirely. The “P” series which uses a 10-pin power block or “bug” and #6-32 hardware or the “M” series which uses a combination of power bugs and Mate-N-Lok connectors.

Description	Digi-Key Part No.	Price Each 1	10	Vector Part No.
PCI BUS, PCMCIA Prototype Kits				
5 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1200-ND	591.50	520.00	VMEBP05P11
7 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1201-ND	873.60	768.00	VMEBP07P11
10 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1202-ND	718.90	632.00	VMEBP10P11
12 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1203-ND	1183.00	1040.00	VMEBP12P11
21 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1204-ND	1738.10	1528.00	VMEBP21P11
5 Slot VME J1/J2, 6U Backplane with Mate-N-Lok Power.............	V1205-ND	591.50	520.00	VMEBP05M00
7 Slot VME J1/J2, 6U Backplane with Mate-N-Lok Power.............	V1206-ND	873.60	768.00	VMEBP07P00
10 Slot VME J1/J2, 6U Backplane with Mate-N-Lok Power.............	V1207-ND	718.90	632.00	VMEBP10M00
12 Slot VME J1/J2, 6U Backplane with Mate-N-Lok Power.............	V1208-ND	1183.00	1040.00	VMEBP12M00
5 Slot VME J1/J2, 6U Backplane with Power Bugs & Mate-N-Lok.....	V1210-ND	591.50	520.00	VMEBP05S00
21 Slot VME J1, 6U Backplane	V1211-ND	910.00	800.00	VMEBP21J1

PCI Development Boards

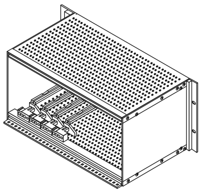
For fast development of adapter card to PCI bus.

P/N V1163-ND Features:
- Multilayer board contains pad per hole patterns.
- Power and ground accessible throughout the board.
- For use in 5 Volt or 3.3 Volt applications.
- For use with Vector prototype accessories.

Description	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
PCI BUS, PCMCIA Prototype Kits					
PCI Plugboard +5V or 3.3V, Pad Per Hole, PTH	V1163-ND	238.02	209.25	185.71	4624-3
PCI Extender Test Card 5V for 32 or 64 Bit...................	V1166-ND	367.28	322.88	286.56	3690-34-5V
PCI Extender Test Card 3.3V for 32 or 64 Bit................	V1167-ND	367.28	322.88	286.56	3690-34-3V
PCMCIA Adapter Board Assembly	V1168-ND	89.18	78.40	69.58	4625-1
PCMCIA Proto Board Kit 4.5” x 6.00” (11.43cm x 15.24cm) Pad Per Hole........................	V1169-ND	107.38	94.40	83.78	4625-3
PCMCIA Extender Test Card for Type II or III Slots................	V1170-ND	136.48	119.99	106.49	3690-35

VECTOR
ELECTRONICS & TECHNOLOGY, INC

CompactPCI® Card Racks

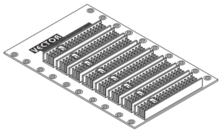


The newest specification for PCI-based computers is CompactPCI. It is electrically a superset of desktop PCI with a different physical form factor. CompactPCI utilizes the Eurocard form factor popularized by the VME bus. Card racks for CompactPCI Bus come completely assembled with card guides. Plug-in power supply and backplane are ordered separately. Standard 3U and 6U heights available with 4 or 8 slot card configurations.

Note: Vented top and bottoms are not included.

Description	Dim. – Inch (cm) Width	Depth	Hgt.	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Card Rack cPCI	7.4 (18.80)	8.5 (21.59)	3U	V1176-ND	204.06	—	—	CCA26-36
Card Rack cPCI	9.0 (22.86)	8.5 (21.59)	3U	V1177-ND	218.00	—	—	CCA26-44
Card Rack cPCI	7.4 (18.80)	12 (30.48)	3U	V1174-ND	234.11	—	—	CCA27-36
Card Rack cPCI	9.0 (22.86)	12 (30.48)	3U	V1175-ND	258.95	227.65	202.04	CCA27-44
Card Rack cPCI	19 (48.26)	10 (25.40)	6U	V1178-ND	270.89	238.15	211.36	CCA28-84-00
Optional Hardware Kit for Above Racks, 24 pcs. Total				V2003-ND	8.12	7.14	6.34	HD91
Card Guides Snap-In Style for Above Racks				V2008-ND	1.62	1.43	1.27	3250-0001-01

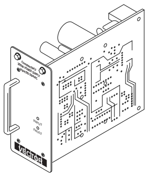
CompactPCI® Backplane



Features: • Backplane design is compliant with the CompactPCI specification 1.0 • CPU slot is on the right • A Drive connector for Peripheral Power is provided • A 4-pin Connector is provided for 12 VDC fan connection

Description	Digi-Key Part No.	Price Each	Vector Part No.
Backplane for CompactPCI, 8 Slot, 6U	V1184-ND	657.93	CPCIBP8-6-64

CompactPCI® Power Supply

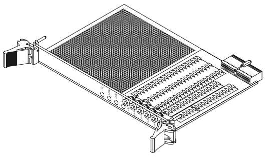


Available in 5 wattage outputs and 4 voltage outputs (5V, 3.3V, +12V, and -12V), this cPCI power supplies plug directly into the CompactPCI card rack and connect to the backplane to supply system voltages to all slots on backplane connectors.

Supplies are hot swappable and redundant sharing with Overvoltage/Overtemperature/Short circuit protection on all outputs and inputs. Input voltage is 90-264VAC (47Hz to 440Hz)

Description	Digi-Key Part No.	Price Each	Vector Part No.
75 Watt cPCI, Closed Frame	V1186-ND	282.10	2600-075
300 Watt cPCI, Open Frame	V1180-ND	754.85	2600-300
300 Watt cPCI, Closed Frame	V1190-ND	859.95	2650-300
350 Watt cPCI, Closed Frame	V1191-ND	819.00	2600-350
Adapter Board for Aux. Power Supply	V1181-ND	294.44	4626

CompactPCI® Test Load Boards



For enclosure and backplane monitoring without separate probes. Gives test loading for power supply for remote voltage calibration. Mount-in card slot and is fully assembled and tested.

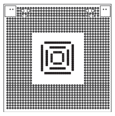
Description	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Resistive Load Board for 3U Systems	V1182-ND	286.65	252.00	223.65	CPCI-3U-25-L
Resistive Load Board for 6U Systems	V1183-ND	317.39	279.03	247.64	CPCI-6U-25-L

Twin Industries

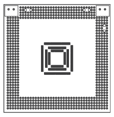
SMT Adapter Boards

Surface mount components are soldered to pads on boards. Traces extend from pads to prototyping holes on standard 0.1" x 0.1" (2.54mm x 2.54mm) grid. Individual leads can be monitored or other components can be added to evaluate performance of surface mount product. Saves time and prototyping cost. All boards made with FR4 laminate, and featuring ground plane on back side. Pad to pad spacing (pitch) is measured in mils (thousandths of inch).

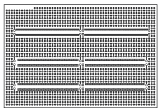
QFP44-100



QFP100, 128



SOIC



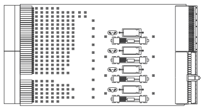
Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
QFP 44-100, 160, 25 mil pitch	438-1015-ND	29.12	25.60	8100-SMT6
QFP 100, 128, 144, 208, 240, 20 mil pitch	438-1016-ND	41.86	36.80	8100-SMT7
SOIC Medium, Wide, Platic, 50 mil pitch	438-1014-ND	21.84	19.20	8100-SMT4
SOIC Medium, Tiny, Metric, 25 mil/50mil	438-1017-ND	41.86	36.80	8100-SMT8
TSOP 40, 48, 56, (20 mil pitch); PSOP 44 (50 mil pitch); SSOP 56 (30 mil pitch)	438-1018-ND	69.16	60.80	8100-SMT9

Twin Industries

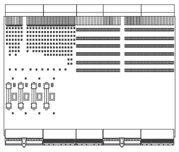
Extender Cards

Bus extender cards allow units under test (UUT) to be developed in functioning systems. The extenders allow access to the UUT and prevent damage to test systems from repeated removals and insertions. Models with test point allow monitoring of signal activity.

438-1000



438-1001



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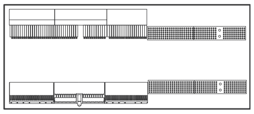

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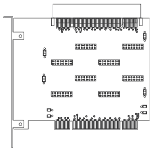
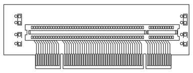
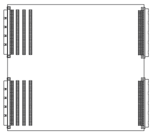


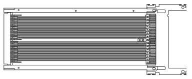
438-1008



438-1009



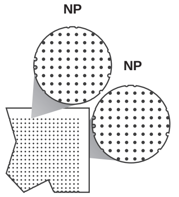
438-1010

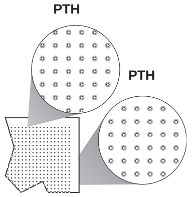


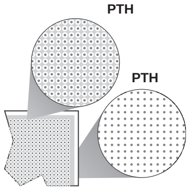
Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
CompactPCI 3U with Test Points 160mm x 3U	438-1000-ND	273.00	263.90	2000-EXTM
CompactPCI 6U with Test Points 160mm x 6U	438-1001-ND	492.00	475.60	2000-6U-EXTM
CompactPCI 3U x 80mm	438-1002-ND	210.00	203.00	2000-3U-80EX
CompactPCI 6U x 80mm	438-1003-ND	450.00	435.00	2000-6U-80EX
CompactPCI 6U x 80mm Rear I/O (J3-5)	438-1004-ND	417.00	403.10	2000-6U-80EX-REAR
PCI, 32 Bit, 4 Layer with Test Points	438-1005-ND	167.44	147.20	7586-5EXTM
PCI, 64 Bit, 4 Layer with Test Points (3.3 or 5V)	438-1006-ND	141.96	124.80	7564-UEXTM
PCI, 32 Bit, Right Angle Riser Card	438-1007-ND	72.80	64.00	7586-RAEXTM
PCI, 32 Bit, Left Angle Riser Card	438-1008-ND	72.80	64.00	7586-LAEXTM
VME with Test Points for All Signals	438-1009-ND	123.76	108.80	8196-6U-EXT
PCMCIA, 4 Layer, 2.13" x 6.35" (54mm x 161mm)	438-1010-ND	112.84	99.20	3300-EXTM
AGP, RIght Angle Riser Card	438-1011-ND	47.32	41.60	AGP-RAEXTM
AGP, Left Angle Riser Card	438-1012-ND	47.32	41.60	AGP-LAEXTM
ISA, 2 Layer	438-1013-ND	58.24	51.20	7098-EXT

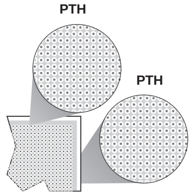
General Purpose Prototyping Boards

High quality prototyping boards for use in hardware development, rapid prototyping, and wire wrapping projects. **Features**: • FR4 glass epoxy material, 0.062" thick • Grid holes spaced on 0.1" x 0.1" (2.54mm x 2.54mm) centers • Hole size .042" (.035 plated) • PPH = Pad Per Hole • PTH = Plated Thru Hole • NP = Non-Plated



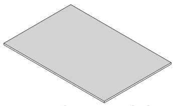






Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
4" x 5" (101.6mm x 127mm) Unclad (No Copper)	438-1019-ND	4.73	4.16	7100-45
10" x 10" (25.4cm x 25.4cm) Unclad (No Copper)	438-1020-ND	23.66	20.80	7100-1010
10" x 20" (25.4cm x 50.8cm) Unclad (No Copper)	438-1021-ND	45.50	40.00	7100-1020
4" x 5" (101.6mm x 127mm) Pad Per Hole (PTH), Double Sided	438-1022-ND	13.78	12.12	8000-45
10" x 10" (25.4cm x 25.4cm) Pad Per Hole (PTH), Double Sided	438-1023-ND	61.88	54.40	8000-1010
10" x 20" (25.4cm x 50.8cm) Pad Per Hole (PTH), Double Sided	438-1024-ND	116.48	102.40	8000-1020
4" x 5" (101.6mm x 127mm) Pad Per Hole (PTH), GND Plane	438-1025-ND	13.78	12.12	8100-45
10" x 10" (25.4cm x 25.4cm) Pad Per Hole (PTH), GND Plane	438-1026-ND	61.88	54.40	8100-1010
10" x 20" (25.4cm x 50.8cm) Pad Per Hole (PTH), GND Plane	438-1027-ND	116.48	102.40	8100-1020
4" x 5" (101.6mm x 127mm) Pad Per Hole (PTH), Two GND Plane	438-1028-ND	13.78	12.12	8200-45
10" x 10" (25.4cm x 25.4cm) Pad Per Hole (PTH), Two GND Plane	438-1029-ND	61.88	54.40	8200-1010
10" x 20" (25.4cm x 50.8cm) Pad Per Hole (PTH), Two GND Plane	438-1030-ND	116.48	102.40	8200-1020

INJECTORALL
Electronics Corp.


Coated Copper Clad PC Board

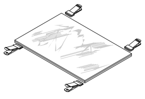
Positive Coated Sensitized Copper Clad Boards

Make your own professional looking prototype boards with trace widths as narrow as .005" (.13mm). All boards are FR4 material and come packaged individually in a black bag with blue header. *CAUTION: Do not open in direct sunlight, open in darkroom environment only.*

Developer and etchant solution available from Injectorall.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
Single Sided			
1/16" (.159cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC17P-ND	4.95	PC17P
4 x 6 (10.16 x 15.24)	PC18P-ND	7.93	PC18P
4.5 x 7 (11.43 x 17.78)	PC18P-C-ND	9.08	PC18P-C
6 x 6 (15.24 x 15.24)	PC18P-S-ND	10.36	PC18P-S
6 x 9 (15.24 x 22.86)	PC19P-ND	15.53	PC19P
12 x 12 (30.48 x 30.48)	PC19P-T-ND	35.05	PC19P-T
12 x 18 (30.48 x 45.72)	PC19AP-ND	52.55	PC19AP
18 x 18 (45.72 x 45.72)	PC19AP-E-ND	70.94	PC19AP-E
1/16" (.159cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC9P-ND	5.71	PC9P
4 x 6 (10.16 x 15.24)	PC10P-ND	9.70	PC10P
4.5 x 7 (11.43 x 17.78)	PC10P-C-ND	11.70	PC10P-C
6 x 6 (15.24 x 15.24)	PC10P-S-ND	13.36	PC10P-S
6 x 9 (15.24 x 22.86)	PC11P-ND	20.04	PC11P
12 x 12 (30.48 x 30.48)	PC11P-T-ND	41.30	PC11P-T
12 x 18 (30.48 x 45.72)	PC12P-ND	61.94	PC12P
18 x 18 (45.72 x 45.72)	PC12P-E-ND	83.65	PC12P-E
Double Sided			
1/16" (.159cm) Thick, 1/2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC74P-ND	7.06	PC74P
4 x 6 (10.16 x 15.24)	PC75P-ND	11.61	PC75P
4.5 x 7 (11.43 x 17.78)	PC75P-C-ND	14.39	PC75P-C
6 x 6 (15.24 x 15.24)	PC75P-S-ND	16.46	PC75P-S
6 x 9 (15.24 x 22.86)	PC76P-ND	24.69	PC76P
12 x 12 (30.48 x 30.48)	PC76P-T-ND	57.74	PC76P-T
12 x 18 (30.48 x 45.72)	PC77P-ND	86.62	PC77P
18 x 18 (45.72 x 45.72)	PC77P-E-ND	116.92	PC77P-E
1/16" (.159cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC40P-ND	7.06	PC40P
4 x 6 (10.16 x 15.24)	PC41P-ND	11.61	PC41P
4.5 x 7 (11.43 x 17.78)	PC41P-C-ND	14.39	PC41P-C
6 x 6 (15.24 x 15.24)	PC41P-S-ND	16.46	PC41P-S
6 x 9 (15.24 x 22.86)	PC42P-ND	24.69	PC42P
12 x 12 (30.48 x 30.48)	PC42P-T-ND	57.74	PC42P-T
12 x 18 (30.48 x 45.72)	PC43P-ND	86.62	PC43P
18 x 18 (45.72 x 45.72)	PC43P-E-ND	116.92	PC43P-E
1/16" (.159cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC51P-ND	7.36	PC51P
4 x 6 (10.16 x 15.24)	PC52P-ND	12.16	PC52P
4.5 x 7 (11.43 x 17.78)	PC52P-C-ND	15.09	PC52P-C
6 x 6 (15.24 x 15.24)	PC52P-S-ND	17.26	PC52P-S
6 x 9 (15.24 x 22.86)	PC53P-ND	25.87	PC53P
12 x 12 (30.48 x 30.48)	PC53P-T-ND	60.89	PC53P-T
12 x 18 (30.48 x 45.72)	PC54P-ND	91.33	PC54P
18 x 18 (45.72 x 45.72)	PC54P-E-ND	123.32	PC54P-E
1/16" (.159cm) Thick, 4 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC79P-ND	10.13	PC79P
4 x 6 (10.16 x 15.24)	PC80P-ND	16.37	PC80P
4.5 x 7 (11.43 x 17.78)	PC80P-C-ND	19.54	PC80P-C
6 x 6 (15.24 x 15.24)	PC80P-S-ND	22.36	PC80P-S
6 x 9 (15.24 x 22.86)	PC81P-ND	30.47	PC81P
12 x 12 (30.48 x 30.48)	PC81P-T-ND	73.86	PC81P-T
12 x 18 (30.48 x 45.72)	PC82P-ND	100.75	PC82P
18 x 18 (45.72 x 45.72)	PC82P-E-ND	137.38	PC82P-E
Single Sided			
1/32" (.079cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC55P-ND	4.26	PC55P
4 x 6 (10.16 x 15.24)	PC56P-ND	7.16	PC56P
4.5 x 7 (11.43 x 17.78)	PC56P-C-ND	8.51	PC56P-C
6 x 6 (15.24 x 15.24)	PC56P-S-ND	9.75	PC56P-S
6 x 9 (15.24 x 22.86)	PC57P-ND	14.61	PC57P
12 x 12 (30.48 x 30.48)	PC57P-T-ND	30.72	PC57P-T
12 x 18 (30.48 x 45.72)	PC58P-ND	46.05	PC58P
18 x 18 (45.72 x 45.72)	PC58P-E-ND	62.19	PC58P-E
Double Sided			
1/32" (.079cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC44P-ND	5.90	PC44P
4 x 6 (10.16 x 15.24)	PC45P-ND	9.81	PC45P
4.5 x 7 (11.43 x 17.78)	PC45P-C-ND	11.66	PC45P-C
6 x 6 (15.24 x 15.24)	PC45P-S-ND	13.33	PC45P-S
6 x 9 (15.24 x 22.86)	PC46P-ND	19.98	PC46P
12 x 12 (30.48 x 30.48)	PC46P-T-ND	42.32	PC46P-T
12 x 18 (30.48 x 45.72)	PC47P-ND	63.47	PC47P
18 x 18 (45.72 x 45.72)	PC47P-E-ND	85.72	PC47P-E
1/32" (.079cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC64P-ND	7.36	PC64P
4 x 6 (10.16 x 15.24)	PC65P-ND	12.15	PC65P
4.5 x 7 (11.43 x 17.78)	PC65P-C-ND	15.09	PC65P-C
6 x 6 (15.24 x 15.24)	PC65P-S-ND	17.26	PC65P-S
6 x 9 (15.24 x 22.86)	PC66P-ND	25.87	PC66P
12 x 12 (30.48 x 30.48)	PC66P-T-ND	60.89	PC66P-T
12 x 18 (30.48 x 45.72)	PC67P-ND	91.33	PC67P
18 x 18 (45.72 x 45.72)	PC67P-E-ND	123.32	PC67P-E
Single Sided			
.014" (.036cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC94P-ND	4.26	PC94P
4 x 6 (10.16 x 15.24)	PC95P-ND	7.16	PC95P
4.5 x 7 (11.43 x 17.78)	PC95P-C-ND	8.51	PC95P-C
6 x 6 (15.24 x 15.24)	PC95P-S-ND	9.75	PC95P-S
6 x 9 (15.24 x 22.86)	PC96P-ND	14.61	PC96P
12 x 12 (30.48 x 30.48)	PC96P-T-ND	30.72	PC96P-T
12 x 18 (30.48 x 45.72)	PC97P-ND	46.05	PC97P
18 x 18 (45.72 x 45.72)	PC97P-E-ND	62.19	PC97P-E
Double Sided			
.010" (.025cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC60P-ND	5.90	PC60P
4 x 6 (10.16 x 15.24)	PC61P-ND	9.81	PC61P
4.5 x 7 (11.43 x 17.78)	PC61P-C-ND	11.66	PC61P-C
6 x 6 (15.24 x 15.24)	PC61P-S-ND	13.33	PC61P-S
6 x 9 (15.24 x 22.86)	PC62P-ND	19.98	PC62P
12 x 12 (30.48 x 30.48)	PC62P-T-ND	42.32	PC62P-T
12 x 18 (30.48 x 45.72)	PC63P-ND	63.47	PC63P
18 x 18 (45.72 x 45.72)	PC63P-E-ND	85.36	PC63P-E
.005" (.013cm) Thick, .5 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC90P-ND	5.90	PC90P
4 x 6 (10.16 x 15.24)	PC91P-ND	9.81	PC91P
4.5 x 7 (11.43 x 17.78)	PC91P-C-ND	11.66	PC91P-C
6 x 6 (15.24 x 15.24)	PC91P-S-ND	13.33	PC91P-S
6 x 9 (15.24 x 22.86)	PC92P-ND	19.98	PC92P
12 x 12 (30.48 x 30.48)	PC92P-T-ND	42.32	PC92P-T
12 x 18 (30.48 x 45.72)	PC93P-ND	63.47	PC93P
18 x 18 (45.72 x 45.72)	PC93P-E-ND	85.72	PC93P-E

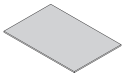
Positive PC Board Accessories


Glass Exposure Kit

Use re-useable exposure guide for determining your exposure time to the distance of the exposure lamp for your application. The UV exposure lamp is a 15W lamp for exposing the presensitized board. Intended to be used with your fluorescent 18" bi-pin fixture. Glass exposure kit consists of two pieces of properly sized glass with spring clips. Used to position and hold mylar positive and board during the exposure process.

Description	Digi-Key Part No.	Price Each	Injectorall Part No.
Reusable Exposure Guide Kit	PC50A-ND	2.78	PC50A
18" Fluorescent Exposure Lamp, Bi-Pin	PC557F-ND	20.74	PC557F
Glass Exposure Kit for 4x6"(10.16x15.24cm) and smaller, 6 Pcs.	PC-GL46-ND	4.78	PC-GL46
Glass Exposure Kit for 6x9" (15.24x22.86cm) and smaller, 6 Pcs.	PC-GL69-ND	7.78	PC-GL69
Glass Exposure Kit for 14x18" (35.56x45.72cm) and smaller, 8 Pcs.	PC-GL1218-ND	20.91	PC-GL1218
Clear Mylar Film, 4x6" (10.16x15.24cm) 2 Sheet Pack	PC36-ND	2.00	PC36
Clear Mylar Film, 6x9" (15.24x22.86cm) 2 Sheet Pack	PC37-ND	2.85	PC37
Clear Mylar Film, 12x18" (30.48x45.72cm) 2 Sheet Pack	PC38-ND	5.00	PC38

Uncoated Copper Clad Boards



All boards are made from FR4 material. 1/2 oz. copper is ideal for shorter etching times and very fine trace lines. Use 2 oz. and thicker for higher current applications and heatsinking. 1/16 inch thick boards are standard with thinner boards offering board flexibility and reduced weight.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
Single Sided			
1/16" (.159cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC5-ND	3.10	PC5
4 x 6 (10.16 x 15.24)	PC6-ND	4.85	PC6
4.5 x 7 (11.43 x 17.78)	PC6-C-ND	5.43	PC6-C
6 x 6 (15.24 x 15.24)	PC6-S-ND	6.20	PC6-S
6 x 9 (15.24 x 22.86)	PC7-ND	9.30	PC7
12 x 12 (30.48 x 30.48)	PC7-T-ND	19.58	PC7-T
12 x 18 (30.48 x 45.72)	PC8-ND	29.32	PC8
18 x 18 (45.72 x 45.72)	PC8-E-ND	37.85	PC8-E
1/16" (.159cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC9-ND	3.13	PC9
4 x 6 (10.16 x 15.24)	PC10-ND	4.98	PC10
4.5 x 7 (11.43 x 17.78)	PC10-C-ND	5.81	PC10-C
6 x 6 (15.24 x 15.24)	PC10-S-ND	6.65	PC10-S
6 x 9 (15.24 x 22.86)	PC11-ND	9.95	PC11
12 x 12 (30.48 x 30.48)	PC11-T-ND	22.12	PC11-T
12 x 18 (30.48 x 45.72)	PC12-ND	33.17	PC12
18 x 18 (45.72 x 45.72)	PC12-E-ND	42.13	PC12-E
Double Sided			
1/16" (.159cm) Thick, 1/2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC74-ND	4.26	PC74
4 x 6 (10.16 x 15.24)	PC75-ND	6.73	PC75
4.5 x 7 (11.43 x 17.78)	PC75-C-ND	7.93	PC75-C
6 x 6 (15.24 x 15.24)	PC75-S-ND	9.03	PC75-S
6 x 9 (15.24 x 22.86)	PC76-ND	14.31	PC76
12 x 12 (30.48 x 30.48)	PC76-T-ND	24.34	PC76-T
12 x 18 (30.48 x 45.72)	PC77-ND	36.50	PC77
18 x 18 (45.72 x 45.72)	PC77-E-ND	45.68	PC77-E
1/16" (.159cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC40-ND	4.26	PC40
4 x 6 (10.16 x 15.24)	PC41-ND	6.73	PC41
4.5 x 7 (11.43 x 17.78)	PC41-C-ND	7.93	PC41-C
6 x 6 (15.24 x 15.24)	PC41-S-ND	9.06	PC41-S
6 x 9 (15.24 x 22.86)	PC42-ND	14.31	PC42
12 x 12 (30.48 x 30.48)	PC42-T-ND	24.34	PC42-T
12 x 18 (30.48 x 45.72)	PC43-ND	36.50	PC43
18 x 18 (45.72 x 45.72)	PC43-E-ND	45.68	PC43-E
1/16" (.159cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC51-ND	4.66	PC51
4 x 6 (10.16 x 15.24)	PC52-ND	7.45	PC52
4.5 x 7 (11.43 x 17.78)	PC52-C-ND	8.81	PC52-C
6 x 6 (15.24 x 15.24)	PC52-S-ND	10.08	PC52-S
6 x 9 (15.24 x 22.86)	PC53-ND	15.11	PC53
12 x 12 (30.48 x 30.48)	PC53-T-ND	28.46	PC53-T
12 x 18 (30.48 x 45.72)	PC54-ND	42.67	PC54
18 x 18 (45.72 x 45.72)	PC54-E-ND	54.64	PC54-E
1/16" (.159cm) Thick, 4 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC79-ND	4.56	PC79
4 x 6 (10.16 x 15.24)	PC80-ND	7.36	PC80
4.5 x 7 (11.43 x 17.78)	PC80-C-ND	9.66	PC80-C
6 x 6 (15.24 x 15.24)	PC80-S-ND	10.08	PC80-S
6 x 9 (15.24 x 22.86)	PC81-ND	15.11	PC81
12 x 12 (30.48 x 30.48)	PC81-T-ND	36.64	PC81-T
12 x 18 (30.48 x 45.72)	PC82-ND	54.96	PC82
18 x 18 (45.72 x 45.72)	PC82-E-ND	82.45	PC82-E
Single Sided			
1/32" (.079cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC55-ND	3.33	PC55
4 x 6 (10.16 x 15.24)	PC56-ND	4.35	PC56
4.5 x 7 (11.43 x 17.78)	PC56-C-ND	4.53	PC56-C
6 x 6 (15.24 x 15.24)	PC56-S-ND	5.18	PC56-S
6 x 9 (15.24 x 22.86)	PC57-ND	7.78	PC57
12 x 12 (30.48 x 30.48)	PC57-T-ND	15.59	PC57-T
12 x 18 (30.48 x 45.72)	PC58-ND	23.37	PC58
18 x 18 (45.72 x 45.72)	PC58-E-ND	29.34	PC58-E
Double Sided			
1/32" (.079cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC44-ND	3.23	PC44
4 x 6 (10.16 x 15.24)	PC45-ND	5.10	PC45
4.5 x 7 (11.43 x 17.78)	PC45-C-ND	6.06	PC45-C
6 x 6 (15.24 x 15.24)	PC45-S-ND	6.93	PC45-S
6 x 9 (15.24 x 22.86)	PC46-ND	10.36	PC46
12 x 12 (30.48 x 30.48)	PC46-T-ND	17.31	PC46-T
12 x 18 (30.48 x 45.72)	PC47-ND	25.97	PC47
18 x 18 (45.72 x 45.72)	PC47-E-ND	32.47	PC47-E
1/32" (.079cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC64-ND	4.66	PC64
4 x 6 (10.16 x 15.24)	PC65-ND	7.45	PC65
4.5 x 7 (11.43 x 17.78)	PC65-C-ND	8.81	PC65-C
6 x 6 (15.24 x 15.24)	PC65-S-ND	10.08	PC65-S
6 x 9 (15.24 x 22.86)	PC66-ND	14.11	PC66
12 x 12 (30.48 x 30.48)	PC66-T-ND	28.46	PC66-T
12 x 18 (30.48 x 45.72)	PC67-ND	42.67	PC67
18 x 18 (45.72 x 45.72)	PC67-E-ND	54.64	PC67-E
Single Sided			
.014" (.036cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC94-ND	2.33	PC94
4 x 6 (10.16 x 15.24)	PC95-ND	4.35	PC95
4.5 x 7 (11.43 x 17.78)	PC95-C-ND	4.53	PC95-C
6 x 6 (15.24 x 15.24)	PC95-S-ND	5.18	PC95-S
6 x 9 (15.24 x 22.86)	PC96-ND	7.78	PC96
12 x 12 (30.48 x 30.48)	PC96-T-ND	15.59	PC96-T
12 x 18 (30.48 x 45.72)	PC97-ND	23.37	PC97
18 x 18 (45.72 x 45.72)	PC97-E-ND	29.34	PC97-E
Double Sided			
.010" (.025cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC60-ND	3.23	PC60
4 x 6 (10.16 x 15.24)	PC61-ND	5.10	PC61
4.5 x 7 (11.43 x 17.78)	PC61-C-ND	6.06	PC61-C
6 x 6 (15.24 x 15.24)	PC61-S-ND	6.93	PC61-S
6 x 9 (15.24 x 22.86)	PC62-ND	10.36	PC62
12 x 12 (30.48 x 30.48)	PC62-T-ND	17.31	PC62-T
12 x 18 (30.48 x 45.72)	PC63-ND	25.97	PC63
18 x 18 (45.72 x 45.72)	PC63-E-ND	32.47	PC63-E
.005" (.013cm) Thick, .5 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC90-ND	3.23	PC90
4 x 6 (10.16 x 15.24)	PC91-ND	5.10	PC91
4.5 x 7 (11.43 x 17.78)	PC91-C-ND	6.06	PC91-C
6 x 6 (15.24 x 15.24)	PC91-S-ND	6.93	PC91-S
6 x 9 (15.24 x 22.86)	PC92-ND	10.36	PC92
12 x 12 (30.48 x 30.48)	PC92-T-ND	17.31	PC92-T
12 x 18 (30.48 x 45.72)	PC93-ND	25.97	PC93
18 x 18 (45.72 x 45.72)	PC93-E-ND	32.47	PC93-E

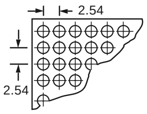
Unclad PC Boards

Unclad (no copper) pc boards made of FR4 fiberglass material. Ideal for isolation of point-to-point wiring and wire wrapping applications. 1/16" thick board.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
1/16" (.159cm) Thick, Unclad			
3 x 4.5 (7.62 x 11.43)	PC5-UNCLAD-ND	3.00	PC5-UNCLAD
4 x 6 (10.16 x 15.24)	PC6-UNCLAD-ND	4.66	PC6-UNCLAD
6 x 9 (15.24 x 22.86)	PC7-UNCLAD-ND	9.00	PC7-UNCLAD
12 x 18 (30.48 x 45.72)	PC8-UNCLAD-ND	23.99	PC8-UNCLAD

Drilled Copper Clad Breadboards

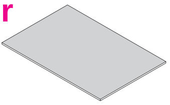
Double sided copper clad boards with drilled holes on .1" centers. Hole diameter of .042" fits most components. Perfect for use with pad cutting tool to customize your circuits. 1/16" thick board.



Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
3 x 4.5 (7.62 x 11.43)	B3426D-ND	9.05	B3426D
4 x 6 (10.16 x 15.24)	B3427D-ND	13.42	B3427D
5.75 x 8.5 (14.60 x 21.59)	B3428D-ND	22.80	B3428D
5.75 x 17 (14.60 x 43.18)	B3429D-ND	38.00	B3429D
11.5 x 17 (29.21 x 43.18)	B3429AD-ND	70.00	B3429AD

NEW! MG Chemicals

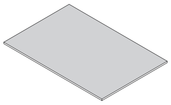
Uncoated Copper Clad Boards



We offer 1/16", 1/32" and 1/64" FR4 laminate with 1 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuous woven glass cloth impregnated with epoxy resin. The copper on 1 ounce board is 1.34 mil thick (0.0341mm). The boards are made of FR4 which is a flame retardant version of G-10 material. Developed specifically for the circuit processing industries requirements. Complies with Mil-S-13949H-GFK. Provides ultraviolet blocking and fluorescence when using automated optical inspection (AOI). UL #E37002A;4/5/91

PCB Thickness	Dimension	Copper	Digi-Key Part No.	Price Each
Single Sided				
1/16"	3" x 5"	1oz.	473-1000-ND	3.68
1/16"	4" x 6"	1oz.	473-1001-ND	4.62
1/16"	6" x 6"	1oz.	473-1002-ND	5.68
1/16"	6" x 9"	1oz.	473-1003-ND	7.96
1/16"	8" x 10"	1oz.	473-1004-ND	11.72
1/16"	12" x 12"	1oz.	473-1005-ND	15.74
1/32"	4" x 6"	1oz.	473-1008-ND	4.62
1/32"	6" x 9"	1oz.	473-1009-ND	7.96
1/32"	12" x 12"	1oz.	473-1026-ND	15.74
1/64"	6" x 9"	1oz.	473-1012-ND	7.96
Double Sided				
1/16"	6" x 6"	1oz.	473-1006-ND	6.48
1/16"	12" x 12"	1oz.	473-1007-ND	18.02
1/32"	4" x 6"	1oz.	473-1010-ND	5.02
1/32"	6" x 9"	1oz.	473-1011-ND	8.36
1/32"	12" x 12"	1oz.	473-1027-ND	18.02
1/64"	6" x 9"	1oz.	473-1013-ND	8.36

NEW! Positive Coated Presensitized Boards



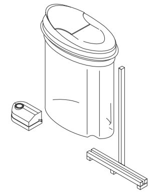
Our presensitized boards provide high resolution and excellent fine line control. They are ideal for prototypes, small production runs, and student training. White protective peel-off liner is attached to protect board from incident light and scratching.

We also offer a large thing (12" x 18" x 1/32 inch) cat#675 paper phenolic presensitized board (Easy Cutting!!), perfect for cutting into smaller boards with no special equipment. Perfect for the classroom.

PCB Thickness	Dimension	Copper	Digi-Key Part No.	Price Each
Single Sided				
1/16"	3" x 5"	1oz.	473-1014-ND	8.50
1/16"	4" x 6"	1oz.	473-1015-ND	9.04
1/16"	6" x 6"	1oz.	473-1016-ND	9.98
1/16"	6" x 9"	1oz.	473-1017-ND	14.94
1/32"	4" x 6"	1oz.	473-1020-ND	9.04
1/32"	6" x 9"	1oz.	473-1021-ND	14.94
Paper Phenolic Single Sided				
1/32"	12" x 18"	1oz.	473-1018-ND	32.08
Double Sided				
1/16"	6" x 6"	1oz.	473-1023-ND	13.86
1/16"	6" x 9"	1oz.	473-1024-ND	19.22
1/32"	6" x 9"	1oz.	473-1025-ND	19.22
1/64"	6" x 9"	1oz.	473-1022-ND	19.22
Paper Phenolic Double Sided				
1/32"	8" x 12"	1oz.	473-1019-ND	27.12

NEW! MG Chemicals

Economical Etching System

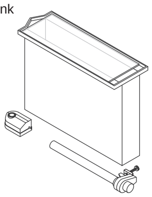


Ideal for students and hobbyists.
An inexpensive etching solution.

- 5 liter heavy duty polyethylene etching tank
- Air pump and tubing
- Sparging unit
- Bag of vinyl gloves
- Complete instructions

473-1029-ND Aromat Relay Guide.................**$42.80**

NEW! Etching Copper Clad Circuits



- 7 liter heavy duty polyethylene etching tank
- Sturdy mounting bracket
- Clear acrylic lid
- Heavy duty air pump
- Three way adjustable airline manifold
- Triple line sparging unit
- 200 watt "Over the Side" immersion heater with quartz element, preset/ adjustable temperature control
- Adhesive digital thermometer
- Bag of vinyl gloves
- Complete instructions

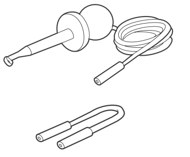
473-1028-ND Kit Etching PCB with Heater and Pump **$166.88**

INJECTORALL Electronics Corp.

Drill Bits

Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Injectorall Part No.
High Speed Steel				
.062" (1.57)	PC300-52-ND	1.77	1.29	PC300-52
.052" (1.32)	PC300-55-ND	1.96	1.43	PC300-55
.040" (1.02)	PC300-60-ND	1.96	1.43	PC300-60
.033" (.84)	PC300-66-ND	2.23	1.63	PC300-66
.029" (.74)	PC300-69-ND	2.51	1.83	PC300-69
.021" (.53)	PC300-75-ND	2.51	1.83	PC300-75
.0135" (.34)	PC300-80-ND	2.51	1.83	PC300-80
Carbide – All carbide bits have 1/8" (3.18mm) shank				
.062" (1.57)	PC300C-52-ND	9.26	8.11	PC300C-52
.052" (1.32)	PC300C-55-ND	7.55	6.61	PC300C-55
.040" (1.02)	PC300C-60-ND	7.55	6.61	PC300C-60
.033" (.84)	PC300C-66-ND	7.55	6.61	PC300C-66
.031" (.79)	PC300C-68-ND	7.55	6.61	PC300C-68
.029" (.74)	PC300C-69-ND	7.55	6.61	PC300C-69
.021" (.53)	PC300C-75-ND	12.01	10.51	PC300C-75
.0135" (.34)	PC300C-80-ND	12.01	10.51	PC300C-80

3M Patch Cords and Accessories



Compatible with 3M breadboards, terminal strips, super-strips, distribution strips, test clips, miniature 8-pin connectors and .025" (.64mm) square wrap posts.

• Ideal for breadboarding and troubleshooting • Incorporate #26 AWG stranded wire with PVC insulation • Rugged, integral strain relief • Choices of two pin sizes — .019" and .030" (.48mm and .76mm), and two socket sizes — .019"-.028" and .028"-.035" (.48mm–.71mm and .71mm–.89mm) and E-Z Hook terminations

ASSORTMENT A (20 Pieces) — 9 pieces 2" (50.80mm) long yellow, 6 pieces 4" (101.60mm) long blue, 3 pieces 6" (152.40mm) long red, 2 pieces 9" (228.60mm) long black.

ASSORTMENT B (10 Pieces) — 5 pieces 15" (381mm) long red, 5 pieces 15" (381mm) long black.

Pin/Socket – Size Inch	Pin/Socket – Size mm	Color/Length Assortment	Pieces/ Pack	Recommended Applications	Digi-Key Part No.	Price Per Pack
Pin Plug to Pin Plug						
.019	.48	Assortment A	20	IC Sockets	924961-ND	48.48
.030	.76	Assortment A	20	A P Hardware	924962-ND	48.48
Socket to Socket						
.019/.028	.48 / .71	Assortment A	20	Extension for .019" (.48mm) Pin Plug	924963-ND	91.42
.028/.035	.71 / .89	Assortment A	20	TC to TC, TC to .025" (.64mm) Square Post	924964-ND	106.00
Pin Plug to Socket						
.019 (.019/.028)	48(.48 / .71)	Assortment A	20	IC Socket to .019" (.48m)m Pin Plug	924965-ND	71.08
.030 (.028/.035)	.76 (.71 / .89)	Assortment A	20	A P Hardware to TC, .025" (.64mm) Sq. Post	924966-ND	71.84
Pin Plug to E-Z Hook						
.019	.48	Assortment B	10	IC Socket to TC, .025" (.64mm) Sq. Post, etc.	924967-ND	45.18
.030	.76	Assortment B	10	A P Hardware to TC, .025" (.64mm) Post, etc.	924968-ND	45.84
Socket to E-Z Hook						
.019/.028	.48 / .71	Assortment B	10	.019" Pin Plug to TC, .025" (.64mm) Sq. Post, etc.	924969-ND	49.74
.028/.035	.71 / .89	Assortment B	10	TC, .025" Post to TC, .025" (.64mm) Post, etc.	924970-ND	51.90

3M Terminal and Distribution Strips

Fig. 1

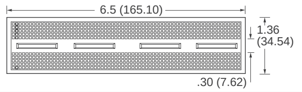


Fig. 2

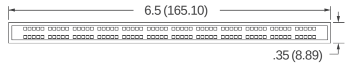


Fig. 3

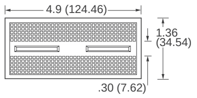


Fig. 4

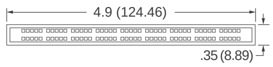


Fig. 5

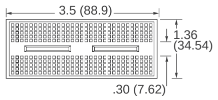


Fig. 6

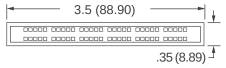


Fig. 7

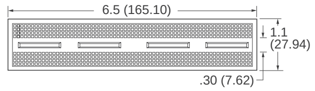


Fig. 8

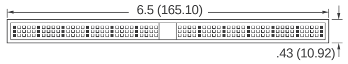


Fig. 9

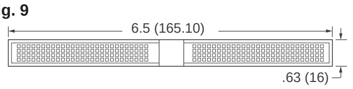


Fig. 10

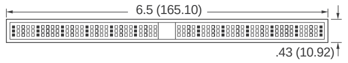


Fig. 11

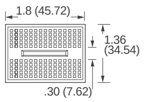


Fig.	Description	Digi-Key Part No.	Price Each
1	Terminal Strip, 128 five-tie-point terminals.............	923261-ND	16.92
2	Distribution Strip, 24 four-tie-point terminals.............	923277-ND	6.87
3	Terminal Strip, 96 five-tie-point terminals.............	923265-ND	13.99
4	Distribution Strip, 18 four-tie-point terminals.............	923281-ND	6.57
5	Terminal Strip, 68 five-tie-point terminals.............	923269-ND	10.97
6	Distribution Strip, 24 four-tie-point terminals.............	923285-ND	6.22
7	Terminal Strip, 128 four-tie-point terminals	923289-ND	15.72
8	Terminal Strip, 54 four-tie-point terminals w/solder tails, vinyl backed, mounting screws provided............	923292-ND	12.80
9	Terminal Strip, 54 four-tie-point terminals.............	923291-ND	10.10
10	Distribution Strip, 36 four-tie point terminals.............	923293-ND	9.05
11	Terminal Strip, 34 five-tie-point terminals.............	923273-ND	7.37

Pulsar

TONER TRANSFER SYSTEM

Make instant circuit boards using any laser printer or photocopier!

NO DARKROOM!
NO NEGATIVES!
NO CHEMICALS!
NO LOST TIME!

Simple 3-Step Process : *1. Print circuit layout directly to TTS paper; 2. Iron the image to copper-clad board; 3. Soak in water to remove paper;* ***now ready to etch!***

• Detailed instructions included for making single & double sided pcb's • Also shows how to make custom full color decals for any application • Sheet size: 8-1/2" x 11" (21.59cm x 27.94cm)

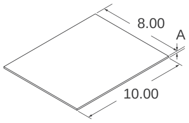
182-1003-ND (10 sheet pack) **$24.95**

Plated Thru-Hole Kit

Registers double-sided artwork and for making plated thru-holes. Once the two images are attached to the board, it is run through the SuperFuser. Also it can be used for installing the eyelets after the PCB. The eyelets are so small they have to be inserted via a pin! Kit comes complete with bag of 250 eyelets, special forming tool, 10 carbide drill bits, mounting pins, scrubbing pad with full instructions.

182-1001-ND **$70.00**

Printed Circuit Boards



Copper Clad Boards
1/4oz. Copper

182-1006-ND	Single Sided 8"x10", .064" thick, 4 Panels	**$40.00**
182-1007-ND	Double Sided 8"x10", .064" thick, 4 Panels	**$45.00**
182-1008-ND	Single Sided 8"x10", .032" thick, 4 Panels	**$40.00**
182-1009-ND	Double Sided "8x10", .032" thick, 4 Panels	**$45.00**

• Note: Must remove 1oz. Copper carrier before using, peel completely off and discard.

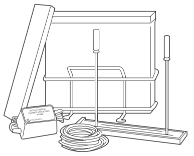
Silverlining Kit

This kit provides you with everything that you need to plate your PCB'S in minutes. You simply dampen a corner of a soft cloth, dip it into the powder and rub over the copper surface. Within a minute, the copper traces are coated with silver plating that will protect the copper from oxidation and provide a highly conductive pad for soldering.

182-1010-ND **$30.00**

GC ELECTRONICS

Professional PC Board Power Etching System

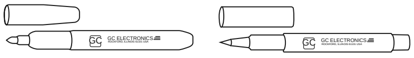


A semi-automatic etching device for use in labs, schools, prototype shops and for limited PC board production. Air pump agitates etching solution for fast, very even etches. Handles up to two 8" x 10" (20.32cm x 25.40cm) PC boards at a time, either single or double sided.

Kit contains: • 1 Etching Tank (1.25 Gallon capacity; 4.73 Liters) and Reservoir Lid, 12"H x 2 1/2"W x 10 1/2"L (30.48cm x 6.35cm x 26.67cm), (Molded Polyethylene — ABS PC Board Holder), Capacity • 1 Etch-O-Matic Power Agitating Pump, 120V AC Operation • 1 Permanent or Portable Tip-Free Base • 1 PC Board Holder and Handle • 4 Feet (1.22 Meters) of Supply Hose

GC394-ND.. **$96.03**

Etch Resist Ink Pens

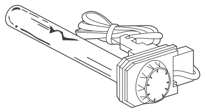


Black felt tip pen for making resist circuits directly on PC boards. Dries instantly for neat, easy application.

GC220-ND Standard Size - draws lines approx. 1/32" (.79mm) wide... **$4.19**
GC222-ND Fine Line - draws lines as thin as 1/64" (.40mm) wide...... **$4.46**

GC ELECTRONICS

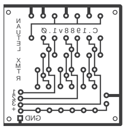
Etching Solution Heater



Fits in tank and heats solution up to 38°C (100°F). Used to further reduce etching time. Built-in adjustable thermostat controls temperature continuously to 100°F (38°C). 120V AC/100 W Max.

GC392-ND.................. **$20.47**

PCBoards



Board Layout Software

An Effective and Low-Cost Software Tool for Creating Printed Circuit Artwork

PCBoards printed circuit layout software is ideal for creating high quality PCB artwork for your electronic projects. Its low cost and ease-of-use make it perfect for professional and hobbyist applications.

FEATURES: • Supports EGA, VGA, and Super VGA • Copper flooding for building ground planes • Gerber and Exellon output • Mirror imaging for laser and deskjet printers • Positive and negative artwork printouts • Single or double-sided boards up to 6" x 13" (15.24cm x 33.02cm) or 8" x 16" (20.32cm x 40.64cm) for Windows version • 0.05" (1.27mm) Grid/Snap; 0.001" to 0.05" (.03mm to 1.27mm) for Windows version • 1X Laser output - ideal for use with Toner Transfer System • Menu driven • Help screens • Silk screen layer • Parts library • Point A-B routing in Windows version

System Requirements: DOS
• IBM PC or Compatible • DOS 3.0 or later • 640K minimum RAM.
Windows: • Windows version 3.0 or later • 1Meg Memory

PCBL-ND (3.5" disk; supports only orthogonal traces) **$49.95**
PCWN-ND (3.5" disk)... **$198.00**

SuperTools and SuperTools Plus for Windows™ 32-Bit Version

System Requirements: Windows™ 95, 98, or NT • **Graphics:** EGA, VGA, SVGA • **Printers:** Any printer supported with Windows™ driver • **Memory: 4M or greater** • Mouse: Windows™ compatible. required Microsoft and Windows are trademarks of Microsoft Corporation

SuperTools for Windows™

FEATURES: • **Schematic Capture:** SuperCad schematic program and autorouter included • **Visually Cued Command Entry:** Pull-down menus, dialog boxes, toolbar buttons • **On-Line Help Manual:** Pull-down HELP menu, corresponding help topic selection • **Draw-to-Fit and Zoom Operations:** Display entire layout, zoom any portion to normal size • **Object Entry Commands:** Entry of traces, pads, rectangles, ellipses, text • **Graphics Edit Commands:** Copy, move, rotate, stretch, erase, single and group edits • **Advanced Editing Features:** Rubberbanding, snap modes, auto-increment text • **Routing:** Point to point and incremental • **Board Layers:** Single and double sided boards with solder mask and silk screen • **Board Size/Resolution:** 8" x 16" (20.32cm x 40.64cm) boards, specify dimensions/traces down to 1 mil • **Flexible Artwork Output:** Dot-matrix, laser, postscript, plotter, Gerber file format output • **Library Support:** Dip, PGA, surface mount, discretes, format library parts from drawings • **Library:** 1500 schematic/component library parts with parts editor/build utility

PCBD3-ND SuperTools for Windows™ **$399.00**

SuperTools Plus for Windows™

Includes all the features of the PCBoards SuperTools with the following additions:

• **SuperCad Schematic Plus:** Schematic layout/capture, netlist conversion, autowire and autoplacement utilities • **Built-In Auto-router:** Point to point, incremental, batch routing (1-16 layers) • **Large Boards/High Resolution:** 32" x 32" (81.28cm x 81.28cm) boards, specify dimensions/traces to 1 mil • **Multiple Circuit Layers:** Up to 16 layers plus silk screen and solder mask layers • **Library:** 5000 schematic/component library parts with parts editor/build utility

PCBD4-ND SuperTools Plus for Windows™ **$699.00**

MentalMAX Plus 32-Bit Version

Contains:
- **SuperTools Plus,** 32-bit version.
- **SuperSIM**, a digital simulation program which works directly with SuperTools Plus. Includes a library of TTL and CMOS part models. Up to 500 signal capacity.
- **MentalSPICE**, an analog simulator program which works directly with SuperTools Plus. 350 discrete part models, 500 op amp-comparator models, and 30 mixed mode digital models. 30 ready-to-use examples.

System Requirements: Windows™ 95, 98, or NT

PCBD5-ND **$1099.00**

CAPITAL ADVANCED TECHNOLOGIES INC.™ UNI-SIP™ UNIVERSAL SINGLE-IN-LINE PACKAGE

Single-In-Line Universal Boards for Thru-Hole Components

Miniature Breadboard Modules feature pins on .1" (2.54mm) Centers

• Often useful hole patterns and pad designs • Greatly increase packaging density • Compatible with standard breadboards, sockets, and solderless breadboards using .1" (2.54mm) centerlines

From simple networks and component arrays to IC circuits using up to .600 wide Dips, UNI-SIP breadboards offer the perfect packaging solution for building both prototype and production thru-hole circuit modules. Use a solderless breadboard to test your idea, use a UNI-SIP breadboard to "KEEP IT." **Specifications:** • **Board Material:** G-10 FR-4 Glass Epoxy • **Thickness:** .032" (.81mm) • **Foils:** Solder coated 1 oz. copper 1-side • **Holes:** .036" (.91mm) Diameter • **Pins:** .1" (2.54mm) centers • **Pin Length:** .130" (3.30mm). Pins are soldered in position • **Board Tolerances:** ±.015" (.38mm) Typ. Overall

Fig. 1 – Series 1000
For basic networks and component arrays
Available in 6, 7, 8, 9, and 10 pin models. Excellent for prototype or production circuits.

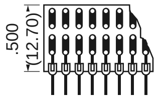


Fig. 2 – Series 2000
Accepts components on .1" (2.54mm), .2" (5.08mm), .3" (7.62mm), or .4" (10.16mm) centers
Available in 6, 7, 8, 10, and 12 pin models. Foil modifications expand layout options.

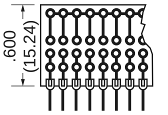


Fig. 3 – Series 3000
For Higher Density General Purpose Applications
Available in 8, 10, 12, and 14 pin models. For general use applications where compatibility with a large number of device sizes is desirable. Features 2 holes per pad on a .100" (2.54mm) matrix.

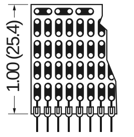


Fig. 4 – Series 4000
Accepts Dips on Standard .300" (7.62mm) Centerline
Available in 7, 8, 10, 12, 14, and 16 pin models. Make selection based on signal connections required. Example: 8 pin model can support 1-16 pin Dip, with 8 signal lines (pins).

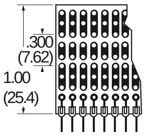


Fig. 5 – Series 5000
Accepts Standard .300" (7.62mm) or .600" (15.24mm) Centerline Dips
Available in 8, 10, 12, 14, 16, and 20 pin models. 20 pin model can hold 1-40 pin Dip with 20 signal lines to input/output pins.

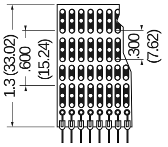


Fig.	No. of Pins	Board Width Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Mfg. Part No.
			1000 Series			
1	6	.6 (15.24)	1006CA-ND	.92	7.02	US-1006
	7	.7 (17.78)	1007CA-ND	1.03	7.92	US-1007
	8	.8 (20.32)	1008CA-ND	1.15	8.82	US-1008
	9	.9 (22.86)	1009CA-ND	1.27	9.72	US-1009
	10	1.0 (25.40)	1010CA-ND	1.39	10.62	US-1010
			2000 Series			
2	6	.6 (15.24)	2006CA-ND	1.03	7.92	US-2006
	7	.7 (17.78)	2007CA-ND	1.15	8.82	US-2007
	8	.8 (20.32)	2008CA-ND	1.27	9.72	US-2008
	10	1.0 (25.40)	2010CA-ND	1.62	12.42	US-2010
	12	1.2 (30.48)	2012CA-ND	1.86	14.22	US-2012
			3000 Series			
3	8	.8 (20.32)	3008CA-ND	1.74	13.32	US-3008
	10	1.0 (25.40)	3010CA-ND	2.09	16.02	US-3010
	12	1.2 (30.48)	3012CA-ND	2.44	18.72	US-3012
	14	1.4 (35.56)	3014CA-ND	2.80	21.42	US-3014
			4000 Series			
4	7	.7 (17.78)	4007CA-ND	1.50	11.52	US-4007
	8	.8 (20.32)	4008CA-ND	1.74	13.32	US-4008
	10	1.0 (25.40)	4010CA-ND	2.09	16.02	US-4010
	12	1.2 (30.48)	4012CA-ND	2.44	18.72	US-4012
	14	1.4 (35.56)	4014CA-ND	2.80	21.42	US-4014
	16	1.6 (40.64)	4016CA-ND	3.15	24.12	US-4016
			5000 Series			
5	8	.8 (20.32)	5008CA-ND	1.97	15.12	US-5008
	10	1.0 (25.40)	5010CA-ND	2.33	17.82	US-5010
	12	1.2 (30.48)	5012CA-ND	2.80	21.42	US-5012
	14	1.4 (35.56)	5014CA-ND	3.15	24.12	US-5014
	16	1.6 (40.64)	5016CA-ND	3.50	26.82	US-5016
	20	2.0 (50.80)	5020CA-ND	4.32	33.12	US-5020

Master Assortment Kit for UNI-SIP: The MK260CA Assortment contains 2 each of all 26 types in the UNI-SIP Series, packaged in reclosable bags grouped by series number.
MK260CA-ND **$79.00**

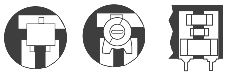
SURFBOARDS® by CAPITAL ADVANCED TECHNOLOGIES INC.™

The Breadboarding Medium for Surface Mount

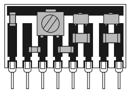
The Surfboard Concept: The concept behind SURFBOARDS is elegantly simple. Many models incorporate foil patterns that are designed to accommodate a wide variety of component mounting footprints. SURFBOARD® models for SOICs and PLCCs provide standard mounting footprints for the IC and depending on the model chosen, will include a prototyping area for additional components or provide a direct pin-out. Most SURFBOARD® models feature SIP (single in line) pins that make prototyping and interfacing with other circuits easy.

Specifications: • Material: G-10 FR-4 Fiberglass laminate, 1oz. Cu. .032" (.81mm). Thickness ±.005" (±.13mm) • Finish: Level 60/40 Solder alloy • S.I.P. Pins: On applicable models. Soldered on .100" (2.54mm) centers. SURFBOARDS® can be hand soldered and are compatible with most industrial soldering processes. (Suggested soldering and assembly guidelines included).

The universal circuit patterns allow for the mounting of 0603, 0805, 1206 and mini-melf packages as well as a wide variety of 3 terminal devices.



6000 Series for Discrete Devices — .1" (2.54mm) Pin Spacing



For building:
- Resistor Networks
- Capacitor Networks
- R-C Networks
- Diode Arrays
- Transistor Arrays
- SMD Sub-Assemblies

Fig. 1

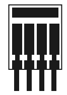


Fig. 2

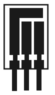


Fig. 3

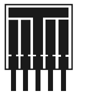


Fig. 4

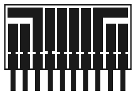


Fig. 5

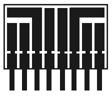


Fig. 6

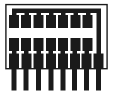
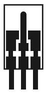


Fig. 7



All 6000 Series boards are .5" (12.7mm) high with .1" (2.54mm) pin spacing. SURFBOARDS® with a greater pin count repeat the same basic pattern as shown.

Fig.	No.of Pins	Digi-Key Part No.	Pricing 1	10
SURFBOARDS® for Discrete Components				
1	4	6004CA-ND	1.72	13.14
	6	6006CA-ND	2.04	15.66
	7	6007CA-ND	2.28	17.46
	8	6008CA-ND	2.51	19.26
	10	6010CA-ND	3.08	23.58
	12	6012CA-ND	3.67	28.08
2	3	6103CA-ND	1.48	11.34
	6	6106CA-ND	2.04	15.66
	9	6109CA-ND	2.63	20.16
	12	6112CA-ND	3.67	28.08
	15	6115CA-ND	4.23	32.40

Fig.	No.of Pins	Digi-Key Part No.	Pricing 1	10
3	5	6405CA-ND	1.93	14.76
	10	6410CA-ND	3.08	23.58
	15	6415CA-ND	4.23	32.40
4	10	6510CA-ND	3.08	23.58
	20	6520CA-ND	5.17	39.60
5	8	6808CA-ND	2.51	19.26
	16	6816CA-ND	4.11	31.50
6	8	6908CA-ND	2.51	19.26
	16	6916CA-ND	4.11	31.50
SURFBOARDS® for SOT-89				
7	3	6303CA-ND	1.48	11.34
	6	6306CA-ND	2.04	15.66
	9	6309CA-ND	2.63	20.16

Master Assortment Kit for Discretes: The MK-6000 assortment contains 2 each of all 23 models in the 6000 series of SURFBOARDS® for discrete components.

MK-6000CA-ND..**$99.00**

9000 Series for ICs

Build • prototype circuits • Evaluate ICs easily • Build circuit upgrades • Adapt SMD to thru-hole

Fig. 1 – Model 9081

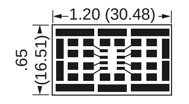


Fig. 2 – Model 9082

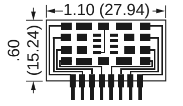


Fig. 3 – Model 9161

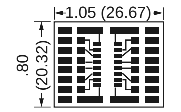


Fig. 4 – Model 9162

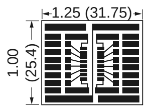


Fig. 5 – Model 9163

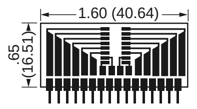


Fig. 6 – Model 9164

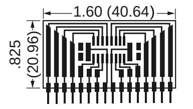


Fig. 7 – Model 9165

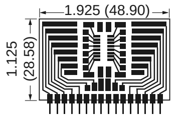


Fig. 8 – Model 9210

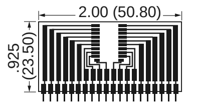


Fig. 9 – Model 9301

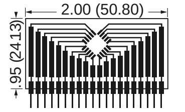


Fig. 10 – Model 9302

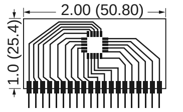


Fig.	Digi-Key Part No.	Pricing 1	10
8 Pin SOIC			
1	9081CA-ND	1.60	12.24
2	9082CA-ND	4.11	31.50
16 Pin SOIC			
3	9161CA-ND	2.04	15.66
4	9162CA-ND	2.16	16.56
5	9163CA-ND	6.32	48.42
6	9164CA-ND	6.53	50.04
7	9165CA-ND	6.89	52.74
20 Pin, .3" (7.62mm) WIde			
8	9210CA-ND	7.47	57.24
20 Pin PLCC			
9	9301CA-ND	7.47	57.24
10	9302CA-ND	7.47	57.24

Master Asst. Kit for ICs:
32 pcs total (5 each of 9081, 9082, 9161, 9162, and 2 each of 9163, 9164, 9165, 9210, 9301, 9302)
MK-9000CA-ND............**$99.00**

SURFBOARDS® by CAPITAL ADVANCED TECHNOLOGIES INC.™

Application-Specific Adapters

- **Accept Wide Range of Surface Mount Discrete Semiconductors and ICs**
- **Provide Convenient Medium for Prototyping, Test, and Development**

The 33000 Series of Surfboards® are application-specific adapters that convert surface mount component footprints to Single-In-Line (SIP) format. The boards feature pre-installed pins on .100" (2.54mm) centers making them compatible with conventional breadboards, solderless breadboards, and sockets. The SIP format provides ease of signal probing as well as higher densities when prototyping. Models are available to accept a wide range of surface mount semiconductors and integrated circuits.

Models 33113 and 33623 feature two SIP pins for each pad for higher current applications. Model 33213 features large soldering pads as connection points and SIP pins for measuring purposes. Boards are .031" ± .005" (.79mm ±.13mm) thick FR-4 and feature solder-coated 1-oz. Circuit Foils that can be hand-soldered or soldered by most conventional processes.

SIP pins are soldered in place on .100" (2.54mm) centers. All boards feature solder mask to limit flow of solder to pad area and aid assembly. Just add parts and plug in.

Fig.	Dimensions — Inch (mm)					SIP		Digi-Key	Pricing	
	A	B	C	D	E	Pins	Accepts These Devices	Part No.	1	10
1	.400 (10.16)	.300 (7.62)	.100 (2.54)	.080 (2.03)	.0512 (1.30)	3	SC-70-3, SOT-323, *NEC* Pkg-30	33003CA-ND	1.01	7.74
2	.400 (10.16)	.600 (15.24)	.100 (2.54)	.090 (2.28)	.0256 (.650)	6	SC-70-6, SOT-363..................................	33006CA-ND	2.07	15.84
3	.400 (10.16)	.800 (20.32)	.100 (2.54)	.180 (4.57)	.0375 (.9530)	8	SuperSOT-8™ *(Fairchild)*..........................	33008CA-ND	2.80	21.42
4	.400 (10.16)	1.0 (25.4)	.100 (2.54)	.200 (5.08)	.0197 (.500)	10	Micromax-10 *(Maxim)*..............................	33010CA-ND	3.22	24.66
5	.400 (10.16)	.500 (12.7)	.100 (2.54)	.165 (4.19)	.060 (1.50)	5	SOT-89-5	33105CA-ND	1.81	13.86
6	.400 (10.16)	.800 (20.32)	.100 (2.54)	.200 (5.08)	.0256 (.650)	8	MSOP-8, TSSOP-8, Micromax-8 *(Maxim)*, Micro-8 *(Int'l Rect.)*, Mini SO-8 *(Burr-Brown)*	33108CA-ND	2.80	21.42
7	.800 (20.32)	.600 (15.24)	.100 (2.54)	.625 (15.87)	.100 (2.54)	6	TO-263AB, 3-Lead D-Pkg	33113CA-ND•	2.84	21.78
8	.800 (20.32)	.500 (12.70)	.100 (2.54)	.625 (15.87)	.067 (1.70)	5	5-Lead DD Pkg., Surface Mount Device...........	33115CA-ND	2.37	18.18
9	.800 (20.32)	.700 (17.78)	.100 (2.54)	.625 (15.87)	.050 (1.27)	7	7-Lead DD Pkg., Surface Mount Device...........	33117CA-ND	3.22	24.66
10	.400 (10.16)	.400 (10.16)	.100 (2.54)	.100 (2.54)	.078 (1.99)	4	SOT-143, Surface Mount Device	33143CA-ND	1.53	11.70
11	.400 (10.16)	.500 (12.7)	.100 (2.54)	.110 (2.79)	.0375 (.953)	5	SOT-23-5, SC59-5, *Burr-Brown* Pkg. 331, Tinylogic™ *(Fairchild)*, Microgate *(Texas Inst.)*....	33205CA-ND	1.86	14.22
12	.400 (10.16)	.600 (15.24)	.100 (2.54)	.110 (2.79)	.0375 (.953)	6	SOT-23-6, SOT-23-L, SC59-6, TSOP-6‡, SuperSot-6™ *(Fairchild)*, Micro-6™ *(Int'l Rect.)*...	33206CA-ND	2.07	15.84
13	.400 (10.16)	.800 (20.32)	.100 (2.54)	.300 (7.62)	.025 (.650)	8	SSOP-8..	33208CA-ND	2.80	21.42
14	1.125 (28.57)	.850 (21.59)	.100 (2.54)	.625 (15.87)	.100 (2.54)	3	TO-263AB, 3-Lead D-Pkg..........................	33213CA-ND•	3.45	26.46
15	.500 (12.70)	.300 (7.62)	.100 (2.54)	.275 (6.98)	.090 (2.28)	3	SOT-223, Surface Mount Device	33223CA-ND	1.27	9.72
16	.400 (10.16)	.400 (10.16)	.100 (2.54)	.080 (2.03)	.051 (1.3)	4	SOT-343	33343CA-ND	1.53	11.70
17	.500 (12.70)	.600 (15.24)	.100 (2.54)	.275 (6.98)	.090 (2.28)	6	SOT-223	33623CA-ND•	2.30	17.64

• Higher Current Applications ‡ Not exact device/pad match

Fig. 1 – Model 33003

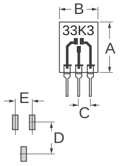


Fig. 2 – Model 33006

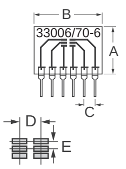


Fig. 3 – Model 33008

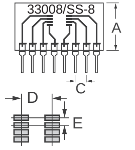


Fig. 4 – Model 33010

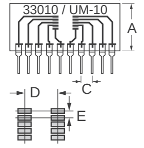


Fig. 5 – Model 33105

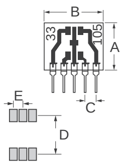


Fig. 6 – Model 33108

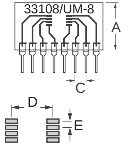


Fig. 7 – Model 33113

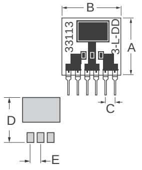


Fig. 8 – Model 33115

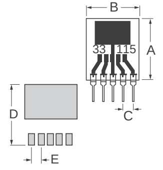


Fig. 9 – Model 33117

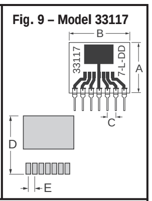


Fig. 10 – Model 33143

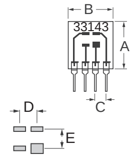


Fig. 11 – Model 33205

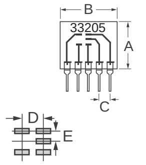


Fig. 12 – Model 33206

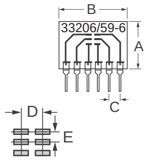


Fig. 13 – Model 33208

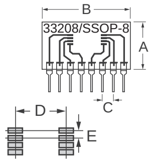


Fig. 14 – Model 33213

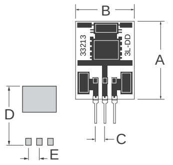


Fig. 15 – Model 33223

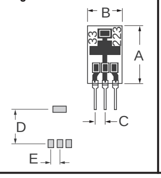


Fig. 16 – Model 33343

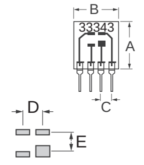
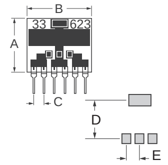
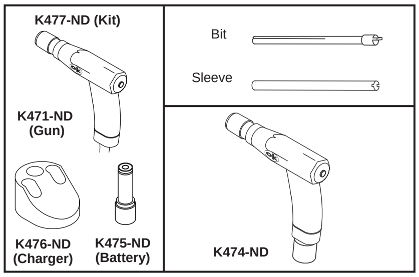


Fig. 17 – Model 33623



OK Industries
Division of Jonard Industries Corp.

Wire Wrap Gun and Bits

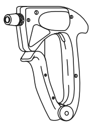


The PTX Series Wire Wrapping Tools for OK Industries bring revolutionary new benefits to installers, telcom technicians and other users. With worker safety in mind, OK Industries created an ergonomic tool which includes a lightweight, well-balanced construction, dual finger short throw trigger, and a long handle to mitigate pressure on the palm. These features help to prevent repetitive stresses and result in an industry leading design from a comfort and safety standpoint.

Choose either 115V powered wire wrap/unwrap gun or the portable battery powered wrap/unwrap tool. PTX wire wrapping kit includes the ergonomic battery wrap/unwrap tool, battery charger and 2 batteries for continuous wire wrapping jobs.

Description	Digi-Key Part No.	Price Each
Tools / Guns		
Wire Wrap/Unwrap Gun 115V	K471-ND	310.86
Wire Wrap/Unwrap Gun w/ Backforce 115V	K472-ND	322.16
Cordura Tool Pouch for Battery Powered Tool	K473-ND	59.00
Battery Powered Wrap/Unwrap Gun	K474-ND	243.03
Kit		
Complete PTX Wire Wrap Kit, Gun, Charger, 2 Batteries	K477-ND	422.49
Replacement Battery / Charger		
Replacement Battery for PTX Wire Wrap Gun	K475-ND	62.16
Battery Charger for PTX Wire Wrap Gun	K476-ND	78.01
Sleeves and Bits		
Sleeve, 22AWG Insulated	K479-ND	28.25
Sleeve, 24-26AWG Insulated	K480-ND	28.25
Sleeve, 26AWG WW Gun, .046" Max. Insul.	K481-ND	45.20
Bit, 26AWG for .025" sq. Post	K483-ND	50.87
Sleeve, 28AWG WW	K482-ND	39.55
Bit, 28AWG for .025" sq. Post	K321-ND	56.53
Sleeve for 26AWG Bit	K324-ND	37.30
Bit, 26AWG for .025" sq. Post, .031" Max. Insul.	K323-ND	50.88
Sleeve for 28 and 30AWG Bit	K322-ND	37.29
Bit, 28AWG for .025" sq. Post	K484-ND	50.87
Bit, 30-32AWG for .025" sq. Post	K485-ND	56.53
Bit, 30AWG for .025" sq. Post	K320-ND	56.51
Power Unwrap Bit / Sleeve		
Power Unwrap Bit/Sleeve for 20-26AWG	K384-ND	62.16
Power Unwrap Bit/Sleeve for 26-32AWG	K385-ND	62.16
Wire Wrap Wire		
26AWG, Blue, 100' (30.48m)	K327-ND	13.38
26AWG, Black, 100' (30.48m)	K386-ND	13.38
26AWG, Red, 100' (30.48m)	K387-ND	13.38
26AWG, Yellow, 100' (30.48m)	K388-ND	13.38
26AWG, White, 100' (30.48m)	K389-ND	13.38
28AWG, Blue, 100' (30.48m)	K326-ND	11.71
28AWG, Black, 100' (30.48m)	K390-ND	11.71
28AWG, Red, 100' (30.48m)	K391-ND	11.71
28AWG, Yellow, 100' (30.48m)	K392-ND	11.71
28AWG, White, 100' (30.48m)	K393-ND	11.71
30AWG, Blue, 100' (30.48m)	K325-ND	10.37
30AWG, Black, 100' (30.48m)	K394-ND	10.37
30AWG, Red, 100' (30.48m)	K395-ND	10.37
30AWG, Yellow, 100' (30.48m)	K396-ND	10.37
30AWG, White, 100' (30.48m)	K397-ND	10.37
Kynar, Blue 30AWG 100' (30.48m)	K329-ND	22.62
Kynar, White 30AWG 100' (30.48m)	K443-ND	22.62
Kynar, Red 30AWG 100' (30.48m)	K444-ND	22.62
Kynar, Black 30AWG 100' (30.48m)	K445-ND	22.62

Manual Wire Wrap Tools



K398-ND
K399-ND

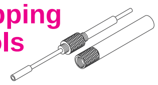
Description	Digi-Key Part No.	Price Each
Manual Wrap Tool Lexan for use w/ bits and sleeves above	K398-ND	124.35
Manual Wrap Tool Aluminum for use w/ bits and sleeves above	K399-ND	163.90
Manual Wrap Tool Insulated Version	K478-ND	175.21

Hobby Wrap Hand Tools

Wire-wrapping, stripping and unwrapping tool. For 30AWG on .025" (0.63mm) and 22-24AWG on .030" (0.76mm) and .045" (1.14mm) Square Post.

K104-ND	Regular Wrap (30AWG)	**$33.90**
K105-ND	Modified Wrap (30AWG)	**$33.91**
K107-ND	*NEW!* Regular Wrap (22-24AWG)	**$45.00**

Precision Hand Wrapping and Unwrapping Tools



K463-ND	Combination Hand Wrap-Unwrap Tool (30AWG)	**$103.99**
K464-ND	Combination Hand Wrap-Unwrap Tool (22-24AWG)	**$90.44**
K465-ND	Hand Unwrap Tool (20-26AWG)	**$39.55**
K330-ND	Universal Wire Unwrap Hand Tool (24-32 AWG)	**$28.25**

Single Wire Dispenser

- With 50 ft. (15.24 meter) roll of AWG 30 KYNAR wire-wrapping wire
- Built-in Plunger cuts wire to desired length
- Built-In Stripper strips 1" (2.54cm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Blue Wire	K223-ND	21.47
Yellow Wire	K224-ND	21.47
White Wire	K225-ND	21.47
Red Wire	K226-ND	21.47
Dispenser Replacement Rolls		
30AWG Blue 50 Ft. (15.24 meter) Roll	K229-ND	8.49
30AWG Yellow 50 Ft. (15.24 meter) Roll	K230-ND	8.49

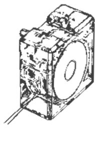
Wire Wrap Wire

30AWG, Pre-Cut/Pre-Stripped — 50 Wires/Pkg.

1˝ (2.54cm) Stripped Ends

Description	Digi-Key Part No.	Price Each
Blue Wire, 3˝ (7.62cm) Overall Length	B3-ND	7.35
Yellow Wire, 3˝ (7.62cm) Overall Length	Y3-ND	7.35
White Wire, 3˝ (7.62cm) Overall Length	W3-ND	7.35
Red Wire, 3˝ (7.62cm) Overall Length	R3-ND	7.35
Blue Wire, 4˝ (10.16cm) Overall Length	B4-ND	7.36
Yellow Wire, 4˝ (10.16cm) Overall Length	Y4-ND	7.36
Blue Wire, 5˝ (12.70cm) Overall Length	B5-ND	8.48
Yellow Wire, 5˝ (12.70cm) Overall Length	Y5-ND	8.48
White Wire, 5˝ (12.70cm) Overall Length	W5-ND	8.48
Red Wire, 5˝ (12.70cm) Overall Length	R5-ND	8.48
Blue Wire, 7˝ (17.78cm) Overall Length	B7-ND	8.48
Yellow Wire, 7˝ (17.78cm) Overall Length	Y7-ND	8.48
White Wire, 7˝ (17.78cm) Overall Length	W7-ND	8.48
Red Wire, 7˝ (17.78cm) Overall Length	R7-ND	8.48

Tri-Color Dispenser



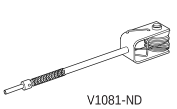
- 3 Rolls of wire in one dispenser
- 3 Colors: blue, white, red; 50 feet (15.24 meters) of each color
- AWG30 (0.25 mm) KYNAR insulated wire
- Built-in plunger cuts wire to desired length
- Built-In stripper strips 1" (25.40mm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Tri-Color Dispenser	K227-ND	45.20
Replacement Rolls	K228-ND	16.90

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Slit-N-Wrap Tools and Wire

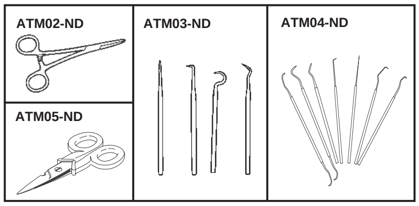
- No Pre-cutting or Pre-stripping
- Fast, reliable, spool fed wire
- Slits and opens insulation exposing bare wire before wire is wrapped on post, forming actual wire wrapped gas tight joint as tool is rotated.



V1081-ND

Description	Digi-Key Part No.	Price Each
Manual Slit-N-Wrap Tool (#28), Includes Bit, 50' (15.24m) Roll of Green Wire	V1081-ND	183.57
Replacement Wirewrap Bit #28	V1083-ND	59.95
Replacement Wirewrap Bit #30	V1084-ND	57.62
150' (45.72m) 28AWG Tefzel Wire Green	V1085-ND	20.33
150' (45.72m) 28AWG Tefzel Wire Red	V1086-ND	19.64
150' (45.72m) 28AWG Tefzel Wire Blue	V1087-ND	19.64
150' (45.72m) 28AWG Tefzel Wire White	V1088-ND	19.64
150' (45.72m) 28AWG Tefzel Wire Yellow	V1089-ND	19.64

BRAND 77 TOOLS



5$^1/_2$" (13.97cm) Straight-Tip Hemoclamp/Hemostat

Professional grade hemo made of 410 A.I.S.I. stainless steel. Hand finished and polished. Hand serrated for extra gripping power. Has 3 locking positions.

ATM01-ND **$4.95**

Curved-Tip Hemoclamp/Hemostat

Professional grade hemo made of 410 A.I.S.I. stainless steel. Hand finished and polished. Hand serrated for extra gripping power. Has 3 locking positions.

ATM02-ND **$4.95**

Compact Electrician's Scissors

Stainless steel double notched blade with file on back. Notches are for stripping wire. Can be used for many telephone installation and electrical service applications. 5 1/2" overall length, cut length is 1 7/8". PVC comfort coated handles.

ATM05-ND **$8.08**

4-Piece Probe Set

Forged from 420 A.I.S.I. stainless steel. Set includes four probes and a plastic (vinyl) pouch.

ATM03-ND **$7.88**

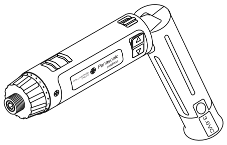
7-Piece Probe Set

Hardened, tempered stainless steel. Set includes seven probes and a plastic (vinyl) pouch.

ATM04-ND **$15.70**

Panasonic

Power Screwdriver



Accurate, High Speed, Powerful!

FEATURES:
• "Auto Shut-Off Clutch" extends battery and clutch life by immediately stopping rotation once torque setting is reached • 22-stage clutch offers you more precise torque setting • Clutch torque accuracy is ±5% • Maximum 600 rpm for high speed screw driving • Maximum 39 in.-lbs. torque (in low gear) even with compact size • 1/4" hex quick connect chuck • 15-minute charging system • Easily converts from straight to pistol form

TECHNICAL DATA:
• **Motor Voltage:** 3.6V DC • **Rotating Speed:** Low: 200 rpm; High: 600 rpm • **Max. Torque:** Low: 39 in.-lb.; High: 13 in. -lbs. • **Clutch Torque/Auto Shut-Off Clutch:** 21 stage/2.6 to 26 in.-lb. • **Size in Straight Position:** 11-21/32" x 1-17/32" • **Weight (includes battery):** 1.15 lbs. • **Battery Capacity:** 1.2Ah • **Charging Time:** 15 minutes • **Working Capacity:** Screw (Ø5/32 x 3/8): 600 screws

INCLUDES: Battery Pack, Battery Charger, #1 Phillips Bit, #2 Phillips Bit

P10861-ND	Screwdriver (EY6225CQ)	**$159.00**
P10862-ND	Extra Battery Pack (EY9025B)	**$39.00**

Wiss®

Utility and Snap Knives

Fig. 1 — Heavy Duty Utility Knife

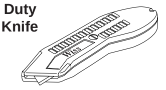


Fig. 2 — Retractable Utility Knife

Fig. 3 — 2-piece Snap Knife Set

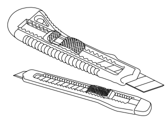


Fig.	Description	Digi-Key Part No.	Price Each
1	Heavy Duty Utility Knife w/3 Blades	WK5V-ND	5.96
2	Retractable Utility Knife w/3 Blades	WK8V-ND	4.46
3	Economy Snap Knife 2-Piece Combination Set	WSK34VCDP-ND	2.20

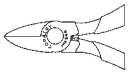
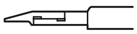
Xcelite®

Electronic Pliers

All pliers are furnished with coil spring and ESD safe cushioned grip handles.

• Each plier is manufactured from extreme toughness and rigidity • Cutting edges are electronically hardened • Machining is to close tolerances, with individual finishing and testing for exact fit of jaws • All have polished heads with gun metal handles

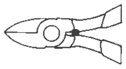
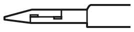
Full Flushed Relieved Tapered Cutter

• Diagonal flush cutter • Ground down on back side for reaching into confined places • Size: 4" (102.00mm)

MS54-3-ND **$14.90**

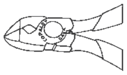
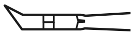
Semi-Flush Diagonal Cutter

• Diagonal cutter with flush ground cutting edges • Size: 4" (102.00mm)

MS54-ND **$13.08**

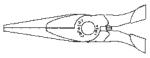
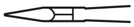
Angled Flush Cutter

• Cutting blade is flush ground and angled at 29° • Cutting plier is designed to give long wear for cutting soft wire • Size: 4" (102.00mm)

GA54-ND.. **$23.40**

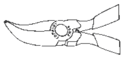
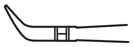
Long Nose Pliers

• Miniature very fine point for delicate work in very confined areas • Has scored jaws • Size: 4" (102.00mm)

L4-ND... **$13.04**

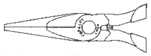
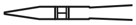
Curved Long Nose Pliers

• For reaching into confined places • Nose bent approximately 60° • Smooth jaws • Size: 5" (127.00mm)

CN54-ND **$16.08**

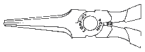
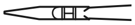
Long Nose Pliers

• Has finely scored jaws • Size: 5" (127.00mm)

COO-LN54-ND.. **$14.33**

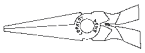
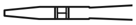
Needle Nose Pliers

• Has scoring on jaws • Size: 5" (127.00mm)

NN54-2-ND **$16.96**

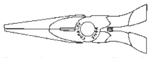
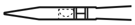
Duck Bill Pliers

• Flat nose duck bill pliers with smooth jaws • Size: 5" (127.00mm)

DN54-G-ND.. **$13.08**

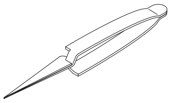
Long Nose Side Cutter

• Similar to long nose pliers but with 7/32" (5.56mm) cutter near joint • Size: 5" (127.00mm)

SN54-ND... **$16.08**

Reverse Action Tweezers

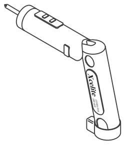


XHT412 4 1/2" (115mm) • Self closing, smooth, sharp points for holding work

XHT412-ND **$4.95**

Xcelite®

Cordless Rechargeable Screwdriver Kit



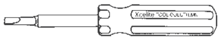
Kit contains: • Driver • Battery • Charger • 99PA adapter • 1 slotted, 2 Phillips bits

Features: • 3.6V power • 2 speeds • 1 hour full recharge • 8 stage torque adjustable • Easily converts from in-line to pistol form • Replaceable battery pack • 99PA adapter enables use with all Xcelite Series 99 blades

XP1-ND... **$99.00**

XP1B-ND Replacement Battery............................. **$24.83**

4-in-1 Screwdriver



• 4 Bits in one compact tool • Changes in seconds: pull out, reverse, snap back • 2 Phillips bits and 2 slotted bits are always ready • Alloy steel, heat treated for maximum strength, precision ground and polished • Large, 6-spline, easy-to-grip red Tenite handle

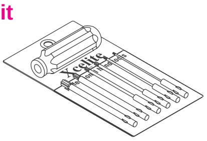
FSD-1V-ND **$9.69**

Screwdrivers

• **5 Piece Phillips Set Includes:** Point #0, 1, 2, 3 and Short #2, Packed in Pouch • **5 Piece Slotted Set Includes:** 1/8", 5/32", 3/16", 1/4" and 5/16" Packed in Pouch • **6 Piece Set Includes:** 4 Round Blade for Slotted Screws & 2 Phillips Types, Slotted: 1/8", 3/16", 1/4" and 5/16", Phillips: 1 & 2 Pt. Size, Packed In Pouch • **7 Piece PRO-SERIES Ergonomic Set Includes:** 5 Slotted Screws & 2 Phillips Types, Slotted: 1/8", 5/32", 3/16", 1/4" and 5/16" Phillips: 1 & 2 Pt. Size, Packed In Box

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
5 Pc. Phillips Screwdriver Set...	SDX-22-ND	23.23	SDX-22
5 Pc. Slotted Screwdriver Set...	SDR-11-ND	21.36	SDR-11
6 Pc. Screwdriver Set...........	SRX-33-ND	28.97	SRX-33
7 Pc. PRO-SERIES Ergonomic Set.................	XPE700-ND	31.99	XPE700

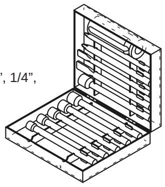
99-XTD7 Torx® Screwdriver Blade Kit



- Interchangeable blades
- Contains 6 blades (#10, 15, 20, 25, 27, 30), 4" (102.00mm) long and regular 99-1 handle
- 4" (102.00mm) approximate working length

99-XTD7-ND.. **$27.37**

Screwdriver & Nutdriver Sets - Inch Sizes



See-through stand-up plastic cases.

99PS-50 Regular Nutdrivers: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"

Slotted Screwdriver: 3/16", 1/4"

Phillips Screwdriver: No. 1, No. 2

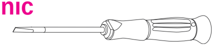
Extension

Regular Handle

PS-120 Color-coded handles. Comes with black "piggyback" torque amplifier handle **Regular Nutdrivers:** 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
13 Pc. Screwdriver and Nutdriver Set...............	99PS50-ND	49.65	99PS-50
11 Pc. Nutdriver Set...........	PS120-ND	31.90	PS120

Precision Electronic Screwdriver Set



• Chrome-molybdenum vanadium steel blades • Fast-turning swivel caps with cavity for precise centering • Precision tolerance black tips • No-roll handle design

XP600-ND Includes: 1.5mm x 60mm Slotted Screwdriver, 2.0mm x 60mm Slotted Screwdriver, 2.5mm x 60mm Slotted Screwdriver, 3.0mm x 60mm Slotted Screwdriver, #00 Point Size Phillips Screwdriver, #0 Point Size Phillips Screwdriver

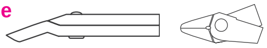
XPTX600-ND Includes: #5pt. Standard Torx Screwdriver, #6pt. Standard Torx Screwdriver, #7pt. Tamper-proof Torx Screwdriver, #8pt. Tamper-proof Torx Screwdriver, #10pt. Tamper-proof Torx Screwdriver, #15pt. Tamper-proof Torx Screwdriver

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
6 Pc. Screwdriver Set.........	XP600-ND	20.99	XP600
6 Pc. Torx Screwdriver Set....	XPTX600-ND	23.99	XPTX600

Xcelite®

Micro Series Shearcutters

General Purpose



• Low profile • Superior blade by-pass shear cutting action • Better cuts with half the effort • Greatly reduced mechanical shock delivered to the work • 170M, 175M feature red grips • 170D, 175D feature static-dissipative black grips • 175M, 175D feature safety clips • 170D, 175D especially hardened and plated

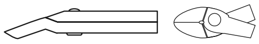
170M-ND.. **$5.06**

170DCI-ND.. **$5.60**

175M-ND.. **$6.20**

175DCI-ND.. **$6.81**

Heavy Duty



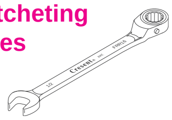
• Heavy-duty for IC pins, cables and harnesses • Maximum durability • Maximum operator safety • 1178M features light blue grips • 1178D features static-dissipative black grips • 1178D especially hardened and plated

1178M-ND **$9.10**

1178D-ND **$10.98**

Crescent®

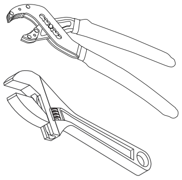
NEW! Reversible Ratcheting Combination Wrenches



• Mirror finished chrome vanadium steel construction • Narrow cross-section design on box and open ends allows access to tighter work spaces • Reverses at the push of a button • Ratcheting end is offset 15° • Rachet feature turns fasteners with just a 5° swing

Description	Digi-Key Part No.	Price Each	Crescent Part No.
4 Pc. SAE (3/8", 7/16", 1/2", 9/16")	FRR4-ND	35.33	FRR4
7 Pc. SAE (5/16", 3/8", 7/16",1/2", 9/16", 5/8", 3/4")	FRR7-ND	67.48	FRR7
4 Pc. Metric (10, 12, 13 and 15mm)	FRRM4-ND	35.33	FRRM4
7 Pc. Metric (8, 10, 12, 13, 14, 15 and 18mm)	FRRM7-ND	67.48	FRRM7

Pliers, Wrenches



DURA-PLYERS™

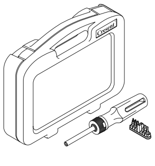
- Laminated and riveted "ply" construction
- Box-joint design
- Textured air-cushioned grips
- Multiple positions

Wrenches

• Adjustable • Chrome finish

Description	Digi-Key Part No.	Price Each	Crescent Part No.
8" Dura-Plyers™..........	LB8-ND	8.34	LB8
10" Dura-Plyers™	LB10-ND	9.38	LB10
6" Crescent Wrench	AC16V-ND	17.68	AC16V
8" Crescent Wrench	AC18V-ND	18.06	AC18V
10" Crescent Wrench.....	AC110V-ND	23.00	AC110V

Ratcheting Screwdriver Set

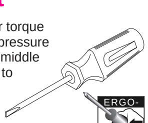


SDMBRV-ND Includes: • **6 Screwdriver Bits:** #1 Phillips®, #2 Phillips®, 3/16" Slotted, 1/4" Slotted, #1 Square Recess, #2 Square Recess

SDMBR2-ND Includes: • **7 Fractional Power Nutdrivers:** 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" • **7 Metric Power Nutdrivers:** 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm • **18 Screwdriver Bits:** #1, #2, #3. Phillips®, 1/4", 5/32", 3/16" • **Slotted:** #1, #2, #3 Square Recess • **Stainless Steel Bit Holder w/ 1/4" Hex Drive:** TX6, TX8, TX10, TX15, TX20, TX25 • **Torx®:** 1/4", 5/32", 3/16" Hex.

Description	Digi-Key Part No.	Price Each	Crescent Part No.
7 Pc.	SDMBRV-ND	13.96	SDMBRV
34 Pc.................	SDMBR2-ND	31.76	SDMBR2

4 Piece Screwdriver Set



• No-slip grip handle stops slippage for higher torque • Extra long, rounded tri-oval shape reduces pressure points to improve comfort • Enlarged handle middle optimizes grip strength and turning efficiency to reduce fatigue • Plated tool steel shafts specially hardened for strength and durability: Includes: #1 and #2 Phillips, 1/4" x 4" Slotted, 3/16" x 3" Slotted

ERGO-HANDLE

SDD4-ND................................... **$10.98**

Swanstrom Tools USA

Cutters and Pliers

Standard or Ergonomic Handles

Fig. 1

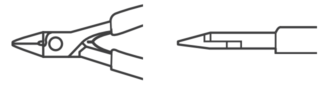


Fig. 2

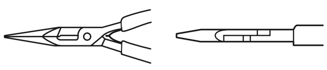


Fig. 3

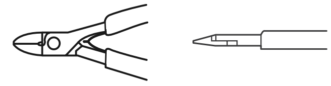


Fig. 4

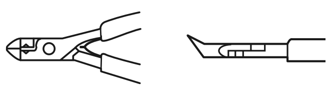
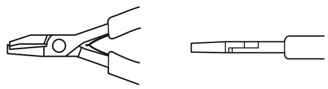
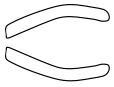


Fig. 5



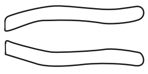
Spartan Standard:



• High carbon, alloy forged American steel—for long tool life. • Alloy steel rivets—for smooth action. • Machined and lapped joints. • Polished finish—for cleanliness and rust prevention. • Double stainless steel leaf spring. • Soft touch static dissipative foam grips—to minimize ESD & CTS.

Fig. No.	Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Cutter Tapered				
1	Flush Standard. Size: 4” (101.60mm)	232-1010-ND	25.00	415
	Flush Standard. Size: 5” (127.00mm)	232-1016-ND	27.00	515
Long Nose Serrated Shear Cut				
2	Standard. Size: 6” (152.40mm)	232-1012-ND	30.00	351
Long Slim Nose Smooth Jaw				
2	Standard. Size: 5” (127.00mm)	232-1017-ND	22.00	324
Long Slim Nose Serrated Jaw				
2	Standard. Size: 5” (127.00mm)	232-1013-ND	22.00	325
	Standard. HD. Size: 6” (152.40mm)	232-1019-ND	24.00	631
Cutter Oval				
3	Flush Standard. Size: 4” (101.60mm)	232-1009-ND	25.00	411
	Flush Standard. Size: 5” (127.00mm)	232-1015-ND	27.00	511
	Flush Standard. Size: 6” (152.40mm)	232-1018-ND	28.00	611
Angle End Nipper				
4	Standard. Size: 4” (101.60mm) Flush	232-1011-ND	35.00	491

Super Ergonomic:

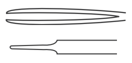


• Swedish American high chromium, alloy forged steel—for maximum tool life. • Electronic induction hardening—for maximum cutter life. • Hard alloy self-lubricating bearings—for perfect jaw alignment. • Precision machined and lapped joints. • Double stainless steel leaf springs. • Soft touch static dissipative foam grips—to minimize ESD and CTS.

Fig. No.	Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Cutter Tapered				
1	Flush Ergonomic Size: 4” (101.60mm)	232-1001-ND	54.00	S415E
	Flush Ergonomic Size: 5” (127.00mm)	232-1007-ND	54.00	S515E
Long Slim Nose Serrated Jaw				
2	Micro. Needle Nose. Size: 4” (101.60mm)	232-1021-ND	26.00	S109
	Ergonomic Size: 5” (127.00mm)	232-1008-ND	32.00	S325E
Cutter Oval				
3	Flush Ergonomic Size: 4” (101.60mm)	232-1000-ND	54.00	S411E
	Flush Ergonomic Size: 5” (127.00mm)	232-1006-ND	54.00	S511E
Angle End Nipper				
4	Flush Ergonomic Size: 4” (101.60mm)	232-1002-ND	60.00	S491E
Crimp & Bend Cutter				
5	Anti-Shock Shear Cut. .040” (1.02mm)	232-1022-ND	55.00	S205B.040

EREM® Tweezers

Straight Tapered Tip Tweezers



EROP 4.5” (114.30mm). Straight, round, tapered tip tweezers. Provide larger, flat gripping surface for handling a variety of small components.

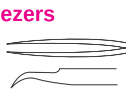
EROP2A-SA-ND $2.49

Straight Precision Tip Tweezers

EROP 4.25” (107.95mm). Straight Point Tweezers. For general use.

EROP3C-SA-ND $2.49

Curved Precision Tip Tweezers



EROP 4.5” (114.30mm). Curved precision tip tweezers improve visibility when used under magnification.

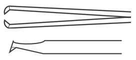
EROP7-SA-ND.........................$2.49

Straight Fine Tip Tweezers

EROP 5” (127.00mm). General use straight point tweezers with hardened tips.

EROPAA-SA-ND $2.49

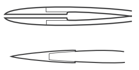
Angled Cutting Tip Tweezers



EREM 4.5” (114.30mm). Angled cutting tweezers. Tempered carbon steel, hard but low rust resistance.

15AGS-ND $22.72

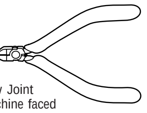
Straight Soft Carbon Tip Tweezers



EREM 5” (127.00mm). 304/305 stainless steel. Soft carbon tipped handling tweezers. Soft tips minimize scratching or nicking of fragile wires and parts. Temp. range is 250° to 300°F (121° to 149°C). Nonmagnetic and non-corrosive. Resistant to hydrochloric and nitric acids.

249-SA-ND $22.86

Diagonal Cutters



N Series - Magic Springs: • Superior to Leaf Springs • Invisible, internal EREM-Magic springs provide uniform, constant tension and ultimate performance • Linear closing and opening force • High Precision Inter-Lock Screw Joint System: Surfaces between the two halves are machine faced to provide smooth, wobble-free operation with no blade overlap

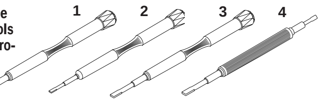
I Series: • ESD Safe foam grips • Forged stainless steel inhibits oxidation • Precision box joint for perfect jaw alignment • Dual leaf springs give you smooth, fast action

Description	Digi-Key Part No.	Price Each	EREM Part No.
“N” Series			
4” (101.6mm), Oval, Semi-Flush	612N-ND	41.29	612N
4” (101.6mm), Oval, Full-Flush	622N-ND	42.81	622N
4.75” (120.7mm), Large Oval, Semi-Flush	812N-ND	48.12	812N
4.75” (120.7mm), Large Oval, Full-Flush	822N-ND	48.82	822N
5” (127.0mm), Oval, Semi-Flush	512N-ND	43.65	512N
5” (127.0mm), Oval, Full-Flush	522N-ND	45.61	522N
“I” Series			
4.25” (108.0mm), Hd. Flat-Flush	92EI-ND	23.18	92EI

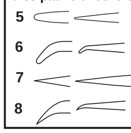
AVEN

Ceramic Tuning Tools, Tweezers, Knives & Blades

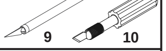
Ceramic blade alignment tools for zero electro-magnetic induction



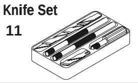
Plastic static dissipative tweezers



Knife



Knife Set



Blades

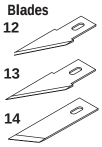


Fig.	Description	Digi-Key Part No.	Price Each
1	1.7 mm Phillips Blade	243-1011-ND	8.70
2	1.3 mm Flat Blade	243-1012-ND	8.70
3	2.6 mm Flat Blade	243-1013-ND	8.70
4	4-in-1 Reversible, (#0 & #1 Phillips, .9 mm & 1.8 mm Flat Blade)	243-1014-ND	18.70
5	Straight, Flat, Rounded Tips	243-1001-ND	1.50
6	Curved, Rounded Tips	243-1002-ND	1.50
7	Very Fine, Straight Tips	243-1003-ND	1.50
8	Very Fine, Curved Tips	243-1004-ND	1.50
9	Utility Knife with Rubber Grip	243-1005-ND	3.40
10	Heavy Duty Utility Knife	243-1006-ND	3.10
11	3-Piece Knife Set (Light, Med. & Hvy. Duty, 10 Asst. Blades)	243-1010-ND	13.80
12	No. 2 Med. to Heavy Blade, 5 Pc.	243-1007-ND	1.60
13	No. 11 Precision Blade, Stainless Steel, 5 Pc.	243-1015-ND	1.65
14	No. 24 Deburring Blade, 5 Pc.	243-1009-ND	1.50

PANAVISE®

Fig. 1

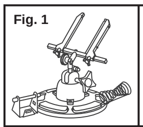


Fig. 2

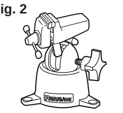


Fig. 3

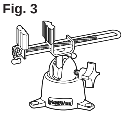


Fig. 4

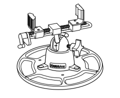


Fig. 5

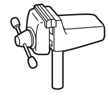


Fig. 6

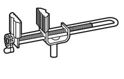


Fig. 7

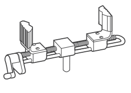


Fig. 8

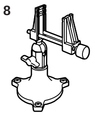


Fig. 9

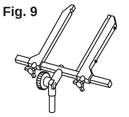


Fig. 10

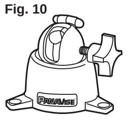


Fig. 11

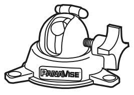


Fig. 12

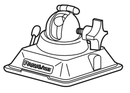


Fig. 13

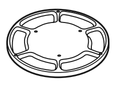


Fig. 14

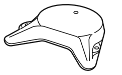


Fig. 15

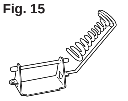


Fig. 16

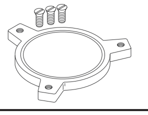


Fig. 17

Must be used with Fig. 6 or Fig. 7 (sold separately).

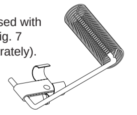


Fig.	Description	Digi-Key Part No.	Price Each
1	Deluxe Electronic Work Center - Solder wire & soldering station not included	324PV-ND	81.99
2	Standard Station (303 head/300 base)	301PV-ND	44.99
3	Wide Opening Station (366 head/300 base)	396PV-ND	53.99
4	Wide Opening-Self Centering Work Station (376 head/300 base/312 tray base mount)	350PV-ND	83.99
5	Standard Head - 2 1/2” (63.50mm) wide,) opens to 2 1/4” (57.15mm)	303PV-ND	24.99
6	Wide Opening Head - 1 3/4” (44.45mm) wide, opens to 6” (152.40mm)	366PV-ND	33.99
7	Wide Opening-Self Centering Head - 1 3/4” (44.45mm) wide, opens to 9” (228.6mm)	376PV-ND	45.99
8	Junior Universal Vise	201PV-ND	23.99
9	Circuit-Board Holder - 6” (152.40mm) arms, extends to 12” (304.80mm) wide	315PV-ND	32.99
10	Standard Base 3 3/4” (95.25mm) high	300PV-ND	20.99
11	Low-Profile Base - Only 2 1/2” (63.50mm) high	305PV-ND	20.99
12	Vacuum Base	380PV-ND	33.99
13	Tray Base Mount - 8 1/2” (215.90mm) diameter, base mount only	312PV-ND	19.99
14	Weighted Base Mount	308PV-ND	29.99
15	Solder Station - Solder iron holder, wire holder & 2 slit sponges, can be used for left or right hand use	371PV-ND	11.99
16	Magnetic Base - Adapts to 201, 300 & 305 bases	335PV-ND	18.99
17	Universal Wire Holder for 366 & 376 jaws	358PV-ND	21.99

Fig. 1 –
502 Precision PanaPress

A 501 Standard Pana-Press with four nylon gibs for precision directional control of the vertical ram.

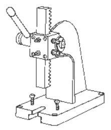


Fig. 2 – 506 Retrofit Kit

Converts a 502 Precision PanaPress into the 505 IDC Bench Assembly Press. The kit includes the assembly base, standard platen, modified ram, guide arm, and an allen wrench.

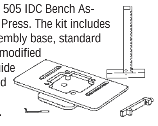


Fig. 3

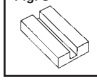


Fig. 4

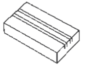


Fig. 5

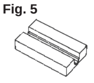


Fig. 6

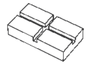


Fig.	Description	Digi-Key Part No.	Price Each
1	Hand Press Bench Mount	502PV-ND	119.99
2	Hand Press IDC Conversion Kit	506PV-ND	59.99
3	Standard IDC Card Edge Connector Base Plate	511PV-ND	29.99
4	Standard IDC Dip Plugs Base Plate	512PV-ND	29.99
5	Standard IDC D-Sub Connector Base Plate	513PV-ND*	29.99
6	Standard Female IDC Socket Base Plate	510PV-ND	29.99

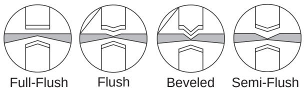
* Do not use with CW Industries all plastic D-sub connectors.

NEW!

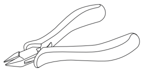
Quality Tools

ESD Cutters and Safe Pliers

- Two component handle with non-slip soft grip surface, protects the hand and reduces manual effort and user fatigue.
- Box joint for longer tool life and endurance, mirror polished finish.
- Welded double leaf spring.
- Hardened and annealed high carbon tool steel, induction hardened cutting edges.



Side Cutters



Small Tapered Head w/ Hollow Grd. Back, Flush, 115mm
431-1041-ND (32704)............................**$39.98**

Small Tapered Head, Flush, 115mm
431-1039-ND (32705)............................**$38.98**

Slim Oval Head, Flush, 115mm
431-1044-ND (32712)............................**$38.98**

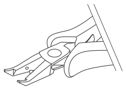
Slim Oval Head, Flush, 115mm
431-1035-ND (32714)............................**$42.98**

Wide Oval Head Carbide Cutting Edges, Bevel, 110mm
431-1036-ND (32718)............................**$89.98**

Wide Oval Head, Flush, 115mm
431-1037-ND (32720)............................**$38.49**

Wide Oval Head w/ Wire Trapping, Flush, 115mm
431-1038-ND (32721)............................**$39.98**

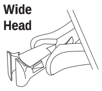
Oblique Cutters



Angled,
29°, Full Flush, 115mm
431-1030-ND (32724)............................**$48.98**

Front, Very Small Head, 40°, Flush, 110mm
431-1045-ND (32728)............................**$42.98**

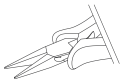
End Cutters



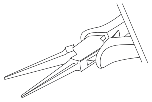
Extra Slim,
Flush, 110mm
431-1040-ND (32732)............................**$43.49**

Wide Head, Flush, 115mm
431-1043-ND (32734)............................**$43.98**

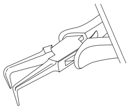
Pliers



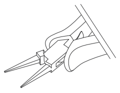
Short Snipe Nose
(Chain Nose)
Straight, Serrated Jaws,
120mm
431-1031-ND (32742)............................**$34.98**



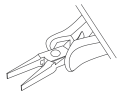
Long Needle Nose,
Straight,
Serrated Jaws,
145mm
431-1042-ND (32746)............................**$39.98**



Needle Nose,
Bent 90°,
Serrated Jaws,
145mm
431-1032-ND (32748)............................**$39.98**



Short Round Nose,
Smooth Jaws,
120mm
431-1033-ND (32750)............................**$34.98**



Short Flat Nose,
Smooth Jaws,
120mm
431-1034-ND (32752)............................**$34.98**

ESD Safe Tweezers

Conductive ESD coating is hypo-allergenic. Resistance is 10^4 to 10^6 ohm. All tweezers are made from premium stainless steel and are anti-magnetic and acid resistant.

Style AA SA IND

130mm long.
Universal fine point tweezers with non-glare finish.
431-1020-ND (44501)............................**$12.88**

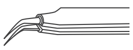
Style SS SA IND

135mm long.
Long narrow body, low force with non-glare finish.
431-1021-ND (44503)............................**$16.38**

Style 3 SA IND

120mm long. Fine tip, round body assembly style with non-glare finish.
431-1022-ND (44506)............................**$16.38**

Style 7a SA IND



120mm long.
Curved with extra fine round tip and non-glare finish.
431-1023-ND (44510)............................**$21.20**

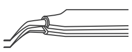
Style 22 SA IND

150mm long. Narrow rounded tip and guide pin, serrated and non-glare finish.
431-1024-ND (44518)............................**$17.02**

Style PSF SA IND

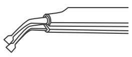
125mm long.
Long rounded to 1mm blunt tip, non-glare finish.
431-1025-ND (44523)............................**$15.84**

Style 7abb SA IND



120mm long.
Curved, extra fine with 3mm extended tip, non-glare finish.
431-1026-ND (44525)............................**$25.34**

Style 8b SA IND



120mm long.
Micro tip 30º bend, 0.5mm slot, 1mm flat, non-glare finish.
431-1027-ND (44529)............................**$22.48**

Style 1 SA IND

120mm long.
General purpose fine point with non-glare finish.
431-1028-ND (44531)............................**$16.94**

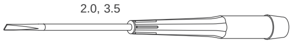
Style 00 SA IND

120mm long.
Universal fine point tweezers with non-glare finish.
431-1029-ND (44532)............................**$21.56**

ESD Safe Fixed Handle Precision Screwdriver Sets

- With finger tip control cap

SLOTTED: 1.5, 2.5, 2.0, 3.5
PHILLIPS: 00, 0, 1



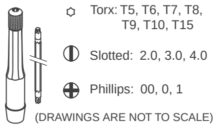
Slotted and Phillips Precision Technicians Set

Blades are CVM hardened tool steel, satin chrome finish.
431-1000-ND (27390)............................**$27.00**

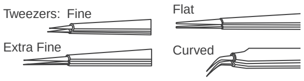
TORX Precision Technicians Set

Blades are CVM hardened tool steel, satin chrome finish. Includes Torx sizes: T4, T5, T6, T7, T8, T9, T10.
431-1001-ND (27890)............................**$33.60**

ESD Safe Field Service Kit



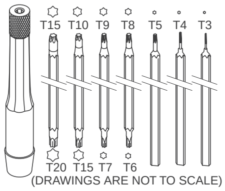
Torx: T5, T6, T7, T8, T9, T10, T15
Slotted: 2.0, 3.0, 4.0
Phillips: 00, 0, 1
(DRAWINGS ARE NOT TO SCALE)



ESD Slotted, Phillips and TORX interchangeable blades with ESD safe tweezers. Packed in rugged canvas storage pouch.
431-1002-ND (44590)............................**$99.88**

ESD Safe Interchangeable Precision Screwdriver Sets

- Adjustable Blade Lengths – .75” to 3.75”
- Anti-Static Conductive Handle



(DRAWINGS ARE NOT TO SCALE)

Slotted and Phillips Interchangeable Blade Precision Technicians Set

Blades; CVM hardened tool steel, satin chrome finish with molded indexed storage box. Includes: Slotted - 1.5, 2.0, 3.0, 3.5mm; Phillips: #000, #00, #0, #1.
431-1003-ND (26996)............................**$32.00**

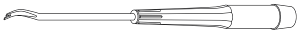
Slotted, Phillips and TORX Interchangeable Blade Precision Technicians Set

Includes: Slotted - 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm; Phillips: #000, #00, #0, #1, TORX: T6, 7, 8, 9, 10, T15.
431-1004-ND (26997)............................**$53.40**

TORX Interchangeable Blade Precision Technicians Set

Blades CVM hardened tool steel. Storage box. Includes TORX Sizes: - T3, T4, T5, T6 + 8, T7 + 9, T10 + 15, T15 + 20.
431-1005-ND (26987)............................**$38.00**

ESD Safe Chip-Lifter

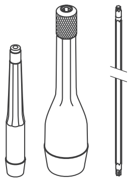


Split tip is perfect for reaching around pins and lifting chips and other components from sockets or from desoldered boards. Handle is conductive anti-static.
431-1016-ND (27920)............................**$5.90**

Interchangeable Blade Field Service Kits – ESD Safe

- System 6
- Palm control cap
- Tapered long reach design
- Fast slide and lock design
- ESD safe anti-static material

TORX SYSTEM 4
T5, T6, T7, T8, T9, T10, T15
TORX SYSTEM 6
T20, T25, T30



(431-1015-ND IS SHOWN)

9 pc. Interchangeable TORX Set

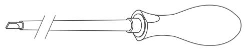
Rugged pouch. Blades of CVM hardened tool steel, corrosion protected. Molded ESD safe ergo handles with collet lock blade holder.
431-1015-ND (10791)............................**$37.55**

8 pc. Combination Set

Rugged canvas pouch. Blades of CVM hardened tool steel, corrosion protected. Molded ESD safe ergo handle with collet lock blade holder. Blades extend 4" out of handle. O.A.L 9.25". Slotted blades: 3, 4, 6, 8mm; Phillips blades: #0, #1, #2.
431-1014-ND (10191)............................**$34.45**

Safety Insulated Screwdrivers

SLOTTED: 3.5 x 100, 4.5 x 125, 6.5 x 150
PHILLIPS: #1 x 80, #2 x 100, #3 x 150

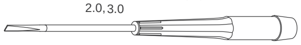


6 pc. insulated screwdriver set. Tools certified to 1000 volts. Meets VDE 0680-2, IEC 900 and ASTM -F1505. Specifications for insulated tools. Blades of CVM hardened tool steel. Ergonomic molded on soft grips.
431-1018-ND (32092)............................**$38.70**

Standard Precision Technicians Tool Sets

- Finger tip control cap
- Narrow tapered handle

SLOTTED: 1.5, 2.5, 2.0, 3.0
PHILLIPS: 00, 0, 1



7 pc. Slotted and Phillips Standard Precision Technicians Set

Blades of CVM hardened tool steel, satin chrome finish. Molded on handles proportioned to blade size.
431-1006-ND (26190)............................**$29.98**

7 pc. Slotted and Phillips Precision Extra Long Blade Set

Slotted - 2.5 x 50, 2.5 x 100mm, 3.0 x 100, 3.0 x 150mm, 4.0 x 100, 4.0 x 150mm. Phillips: #0 x 75mm.
431-1007-ND (26092)............................**$33.00**

8 pc. Precision Inch Size Hex Driver Set

Tip sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8".
431-1008-ND (26391)............................**$33.20**

7 pc. Precision Metric Size Hex Driver Set

Tip sizes: .7, .9, 1.3, 1.5, 2.0, 2.5, 3.0mm.
431-1009-ND (26390)............................**$29.70**

8 pc. Precision Inch Size Nut Driver Set

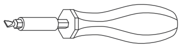
Sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4”.
431-1011-ND (26591)............................**$46.90**

8 pc. Precision Metric Size Nut Driver Set

Sizes: 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm.
431-1010-ND (26590)............................**$47.30**

Security Bit Set

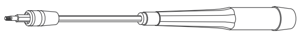
Tamper Resistant Torx: TR8, TR10, TR15, TR20, TR25, TR27, TR30, TR40
Tamper Resistant Hex: 5/64, 3/32, 7/64,1/8, 9/64, 5/32
Slotted: 6.8, 8.0
Phillips: 1, 2
Pozidriv: 0, 1, 2, 3
Spanner: 4, 6, 8, 10
Triwing: 1, 2, 3, 4
Square: 1, 2, 3
Torq: 6, 8, 10



39 pc. set in molded storage box with hard-to-find security bit sizes. Includes: handle, 1/4” magnetic power tool adapter, and 1/4 socket bit holder.
431-1013-ND (71990)............................**$66.98**

MicroBit Set with ESD Handle

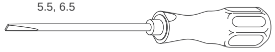
PHILLIPS: 000, 00, 0, 1
HEX: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32
TORX: T3, T4, T5, T6, T7, T8, T9, T10, T15
SLOTTED: 1.5, 2.0, 3.0, 4.0



27 pc. set with molded storage box extension, ESD handle and assorted MicroBits.
431-1012-ND (75992)............................**$49.98**

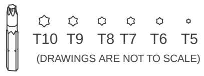
6 Piece Ergonomic Grip Driver Set with Two Components

SLOTTED: 3.0, 4.5, 5.5, 6.5
PHILLIPS: #1, #2



Comfort grip handles. Hardened tool steel blades.
431-1019-ND (46094)............................**$23.30**

TORX Insert Bit Set

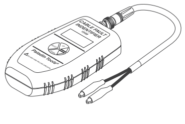


(DRAWINGS ARE NOT TO SCALE)

6 pc. Small Torx insert bit set. Bits of CVM hardened tool steel. Smallest hard-to-find sizes on standard 1/4" Hex Drive. 25mm (1") length.
431-1017-ND (71570)............................**$9.98**

Paladin Tools® Cable Tester

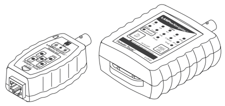
Tester displays length of cable, cable remaining on spool, distance to short, distance to open, and injects tone into cable. The most accurate true TDR technology with ±1.5% accuracy. Measures to 3200'. Built-in tone generator with warble tone. Scroll through pre-programmed NVP values for common cable types. Fast 1 second tests. Detects live voltage. Easy-to-read large display. Push-button controls. BNC-to-Alligator clips adapter make testing fast. Requires only one 9V battery, included.



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Cable Fault Identifier TDR Tester	PAL1549.1-ND	319.00	1549.1

LAN ProNavigator™ Tester and Remote

LAN ProNavigator™: Two-piece tester includes main unit and remote with test results at both ends. One-button, simple testing (PASS/FAIL or fault find). Detects opens, shorts, crossed wires and split pairs. Cable types, RG58, RG59, RG6, RG6 Quad, Belden 8281, RG8, RG11, CAT-5, CAT-5e or CAT-6 (UTP/STP).



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
LAN ProNavigator Test Set (Main and Remote), 2 RJ45 Patch Cords, 2 Belt Clips	PAL1543.1-ND	124.99	1543.1

Cable Stripping Tools

Fig. 1

Coaxial stripping tool producing 2 and 3 level strips in cables from .100" to .315" (2.54 to 8mm) dia.
Replacement blades and easy adjustment, make this tool the perfect choice.

Cassette Type	Dim. (mm) A	B
Green Cassette	7.09	5.11
Brown Cassette	7.49	3.48

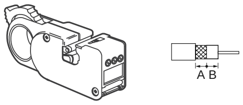


Fig. 2

AM12 Multi-level adjustable cable stripper.

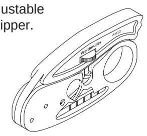
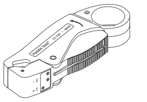


Fig.	Description	Digi-Key Part No.	Price Each	Mfg. Part No.
	3 Level Coaxial Cable Stripper			
1	Adjustable with Green Cassette	PA1240-ND	69.64	1240
1	Adjustable with Brown Cassette	PA1243-ND	69.64	1243
—	Replacement Blade for PA1240	PA2240-ND	27.96	2240
—	Replacement Blade for PA1243	PA2243-ND	27.96	2243
	Cutter and Stripper for UTP and STP Cables			
2	Cable Stripper	PAL1112-ND	21.71	1112

LC CST Strippers

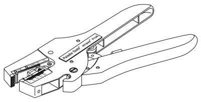
Coaxial stripping tool producing 2 and 3 level stripping of outer jacket, shield braid and inner dielectric. Hex key makes it easy to adjust the blades to set the cutting depth. Self-regulating tensions. Pre-set strip lengths for most common lengths.



Preset Strip Lengths	Strip Types	Cable Usage	Digi-Key Part No.	Price Each	Mfg. Part No.
0.315" Outer Jacket 0.157" Inner Dielectric	2 & 3 Level Adjustable	RG58, RG59, RG62, AU & RG6	PAL1255.1-ND	16.99	1255.1
0.236" Outer Jacket	2-Level	RG59, RG6 & RG6 QUAD CATV "F"	PAL1257.1-ND	16.99	1257.1

Universal Strippers and Cutters

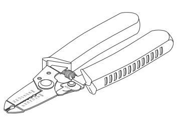
The new Stripax® performs powerful stripping and cutting of standard and industrial insulations including PVC, THHN, THHW, silicone and polyethylene. The PAL1113.1-ND stripping blades are composed of 68 individual spring-compression blades to adjust precisely to the insulation. Not for Teflon or Kapton hard insulations.



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Stripax® Pro 6 (AWG 28-10)	PAL1113.1-ND	75.48	1113.1
Mini-Stripax Plus (AWG 28-18)	PAL1115-ND	82.94	1115P
SureStrip™ 4.0 (AWG 20-12)	PA904893-ND	56.99	904893

P-Strippers 10 and 20

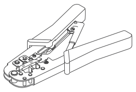
Cuts and strips a wire range of AWG 30-10. Works well for round voice and data cable, electrical wiring, hook-up wire, multi-conductor cables and coaxial cable. These strippers cover the most common range of insulated wire with precise, reliable action and durable steel craftsmanship. Strip standard insulations including PVC, rubber, polyurethane, polyethylene and silicone. Includes built-in safety lock, nose clamp, steel screw cutter and wire loop. PAL1105 is for use on Romex household wiring cable. Not for steel or armored wire and cable.



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
P-Stripper 10 Cutter/Stripper (AWG 22-10)	PAL1105.1-ND	10.99	1105.1
P-Stripper 20 Cutter/Stripper (AWG 30-20)	PAL1106.1-ND	10.99	1106.1

All-in-One Telephone Tool

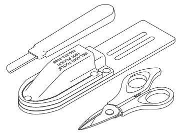
Ratcheted design. 6 position, (RJ11/RJ12). 8-position, (RJ45) modular telephone plugs. Cuts, strips, and crimps 28-24 AWG telephone and data cables.



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
All-in-One Telephone Tool	PAL1545.1-ND	39.71	1545.1

Datacomm Scissors and Knife Kit

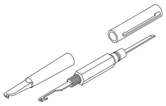
The cable-splicing ProSnips Kit in a leather pouch is designed for cutting cable, telephone wire and stripping insulation. Fiskars® datacomm scissors feature an ergonomic design for the professional user. Leather pouch slotted to fit 2" belts. Scissor is fastened with a solid steel rivet and have stainless steel blades to cut copper or fiber optic cables. Utility knife has a full-size, no-slip textured handle.



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Knife and Scissors in Leather Pouch	PAL1912.1-ND	35.95	1912.1

Probe Pick

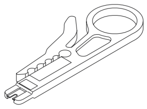
Probe pick for pulling wire, slicing, stripping cable and cleaning debris off terminal panels. Small and light weight pen-sized with clip for carrying in pocket. Spludger tip, wire hook, wire stripper, slitter tooth, and a non-conductive scraping tip.



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Pocket Probe Pick	PAL1915.1-ND	5.95	1915.1

Punchdown Stripper

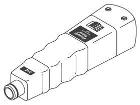
Strips twisted-pair UTP/STP data cables and wires and terminates wires into 110 blocks. Use on UTP/STP data cable, multi-pair cable, hook-up wire and more. Comes in bright Paladin Tool orange. Length: 4" (102mm)



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Punchdown Stripper	PAL1913.1-ND	3.99	1913.1

Surepunch™ Tools

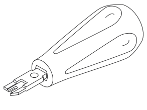
Terminates and cuts telephone wire and data cable into a variety of termination panels including 66, 88, 108, 109, 110, BIX™ and Krone® LSA for insulation displacement type bifurcated terminals. Adjustable spring-compression HI/LO impact tool. For 28-22 AWG, solid or stranded wire. Latch cover blade storage area in end of handle.



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
SurePunch PDT Handle (no blade)	PAL3570.1-ND	40.15	3570.1
SurePunch 110 Reversible Blade	PAL4572.1-ND	15.87	4572.1
SurePunch 66 Reversible Blade	PAL4573.1-ND	15.87	4573.1

Non-Impact Punchdown Tools with Fixed Blades

Terminates and cuts telephone and data wire into various types of terminating panels including the 66, 88, 108, 109, 110. For insulation displacement type bifurcated terminals. 28-22 AWG. Performs both cut and punch functions. Perfect for small jobs. Length: 4"



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
110 Punchdown Tool	PAL3580.1-ND	10.95	3580.1
66 Punchdown Tool	PAL3581.1-ND	10.95	3581.1

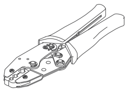
DataShark Network Termination Kit

Modular plug crimper for RJ45 and RJ11/12 connectors. Universal stripper for twisted pair and flat cable. Non-impact punchdown tool with 110 blade, 10 pieces of RJ45 modular plug connectors. Detailed instructions for cable assembly.

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Network Tool Kit	PAL70007.1-ND	45.98	70007.1

Coaxial Crimper

Fully ratcheted crimp tool for RG6/6QS CATV "F" terminations. With safety release.



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
CATV "F" Coaxial Crimper	PAL70006.1-ND	27.99	70006.1

DESCO

Static Control Products

EMI Shielding Bags - Moisture Vapor Barrier

This bag combines the properties of MOISTURE-VAPOR-BARRIER with EMI-RFI-ESD shielding. Manufactured from a Type 1 Class N652-260M film which is qualified to MIL-B-81705- Rev C Type I.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Mfg. Part No.
6 x 10 (15.24 x 25.40)	16-1016-ND	8.05	16.53	13808
10 x 12 (25.40 x 30.48)	16-1018-ND	14.59	29.97	13816
12 x 16 (30.48 x 40.64)	16-1019-ND	23.06	47.33	13824
18 x 24 (45.72 x 60.96)	16-1020-ND	48.66	99.91	13832

NEW! Static Shielding Bags – Metal Out

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Meets the electrical and mechanical requirements of MIL-PRF-81705D, EIA541. Superior durability at a low cost.

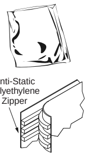
Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Mfg. Part No.
3 x 5 (7.62 x 12.70)	16-1056-ND	2.88	7.42	13010
4 x 6 (10.16 x 15.24)	16-1057-ND	3.58	9.22	13020
5 x 8 (12.70 x 20.32)	16-1058-ND	4.82	12.41	13035
6 x 10 (15.24 x 25.40)	16-1059-ND	6.01	15.50	13050
8 x 10 (20.32 x 25.40)	16-1060-ND	7.20	18.54	13065
8 x 12 (20.32 x 30.48)	16-1061-ND	8.43	21.63	13070

Static Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Meets the electrical and mechanical requirements of MIL-B-81705C. Superior durability at a low cost.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Mfg. Part No.
3 x 5 (7.62 x 12.70)	16-1027-ND	1.87	4.95	13405
4 x 6 (10.16 x 15.24)	16-1028-ND	2.09	5.55	13415
5 x 8 (12.70 x 20.32)	16-1029-ND	3.31	8.80	13430
6 x 10 (15.24 x 25.40)	16-1030-ND	4.01	10.60	13445
8 x 10 (20.32 x 25.40)	16-1031-ND	5.73	15.15	13460

Zipper-Style Static Shielding Bags – Metal In



ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Features a reclosable polyethylene zipper for safe and easy opening and reclosing of bag. Meets the electrical and mechanical requirements of MIL-B-81705C.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Mfg. Part No.
3 x 5 (7.62 x 12.70)	16-1032-ND	3.00	7.95	13605
4 x 6 (10.16 x 15.24)	16-1033-ND	3.89	10.30	13615
5 x 8 (12.70 x 20.32)	16-1034-ND	5.68	15.05	13630
6 x 10 (15.24 x 25.40)	16-1035-ND	6.79	18.00	13645
8 x 10 (20.32 x 25.40)	16-1036-ND	9.65	25.55	13660

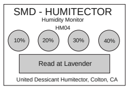
Static Label for Packaging

Static Attention labels used for sealing Shielding Bags and marking ESD Containers.

Color: Yellow/Black.

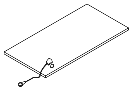
Description	Digi-Key Part No.	Price Each	Mfg. Part No.
2" x 2" (50.8mm x 50.8mm) 500 pieces	16-1001-ND	13.02	06722

Humidity Card and Desiccant Pack



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Humidity Card ESD 2" x 3" (50.80mm x 76.20mm)100 pcs/pk	16-1048-ND	27.40	13870
Desiccant Pack 3" x 3.5" (76.20mm x 88.90mm) 550 pcs/pk	16-1049-ND	76.79	13850

Statfree® Type B Dissipative Homogeneous Vinyl Table Mat



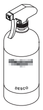
These tabletop kits are perfect for individual workstation ESD control.

Smooth finish on one side and a non glare finish on the other, .100" (2.54mm).

Complete common point ground kit is included with table mat kits.

Dim. Ft. (Meters)	Color	Kit Includes	Digi-Key Part No.	Price Each	Mfg. Part No.
2 x 3 (.61 x .91)	Beige Blue Brown	Bench Ground Kit	16-1042-ND 16-1044-ND 16-1046-ND	44.77 44.77 44.77	16201 16213 16224
2 x 4 (.61 x 1.22)	Beige Blue Brown	Bench Ground Kit	16-1043-ND 16-1045-ND 16-1047-ND	53.78 53.78 53.78	16202 16214 16226

Reztore Antistatic Cleaner



Cleans and restores ESD mats and will not degrade surface's ability to drain charges. Does not contain silicon or alcohol.

Ideal for cleaning mats, electronic instrumentation, medical equipment and computer monitors keyboards and equipment.

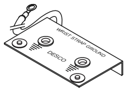
Description	Digi-Key Part No.	Pricing 1	 12	Mfg. Part No.
Cleaner, (One Quart)	16-1054-ND	8.52	78.00	10435

Statfree ESD Bench Top Mat - Type B+

ESD Grounding Mats for use along benchtops and shelving. These 24" wide by 40' long bench mats are reversible single layer vinyl and can be easily cut to dimension — .100" thick. Their durability and general purpose construction make them ideal for benchtops, shelving and floor mats.

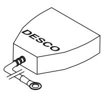
Description	Digi-Key Part No.	Price Each	Mfg. Part No.
24" x 40' (60.96cm x 12.2 M) ESD Bench Mat			
Blue, Lightly Textured	16-1009-ND	371.79	16350
Grey, Lightly Textured	16-1010-ND	354.09	16352
Universal Snap Kit for Mats, 6 pc. (connects wrist strap to mat)	16-1012-ND	3.73	09864
Push and Clinch Snaps			
Pronged 10mm Stud Snap	16-1052-ND	3.00	09861
Pronged 10mm Socket Snap	16-1053-ND	3.00	09863

Dual ESD Ground Point Bench Mount



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
With 10' (3.05M) Cord	16-1055-ND	18.42	09740

Ground Point for Bench Mat and Two Wrist Straps without Resistor



Description	Digi-Key Part No.	Price Each	Mfg. Part No.
10mm Socket, 10' (3.05M) Cord	16-1050-ND	17.38	09820
10mm Stud, 15' (4.57M) Cord	16-1051-ND	17.38	09825

ESD Awareness Guide - Booklet

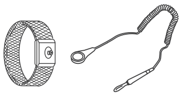
An introduction to ESD. This booklet uses easy-to-understand language and drawings to describe the causes of static electricity and the importance of an ESD program.

Ideal for training personnel who handle static sensitive components.

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
ESD Awareness Guide - English	16-1013-ND	9.88	06821

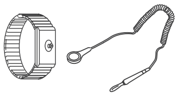
Adjustable Wrist Straps

Fig. 1



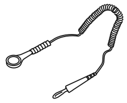
Elastic wrist straps have silver impregnated nylon knitted inside with a soft lightweight fabric, allowing softness, comfort and flexibility. May be fitted to any size.

Fig. 2



Speidel wrist straps are Twist-O-Flex metal wrist straps made of nonallergenic stainless steel for reducing reactions and providing long service life.

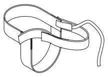
Fig. 3



Use for wrist straps, smocks and gloves. 4mm stainless steel contact snap to connect directly to wrist straps. Molded in one meg ohm series resistor at snap end to protect operator from line voltage.

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Fig. 1 — Elastic Band Wrist Strap			
With 6' (1.8M) Coiled Cord, Blue	16-1003-ND	21.74	14810
With 10' (3.0M) Coiled Cord, Blue	16-1004-ND	22.76	14830
Strap Only (no cord)	16-1005-ND	8.54	14840
Economy Adjustable Wrist Strap with 6' (1.8M) Coiled Cord	16-1021-ND	9.50	09039
Fig. 2 — Speidel Metal Band Wrist Strap			
With 6' (1.8M) Coiled Cord, Black	16-1006-ND	34.62	09085
Strap Only (extra large, no cord)	16-1008-ND	25.28	09042
Fig. 3 — Replacement Coiled Cords			
6' (1.8M) Economy Coiled Cord Only, Blk, 4mm Snap	16-1022-ND	14.80	09480
12' (3.66M) Economy Coiled Cord Only, Blk, 4mm Snap	16-1023-ND	18.52	09680

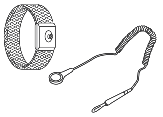
Foot / Heel Grounders



- Exceptionally tear resistant dual layer rubber with inner scrim
- Hook and loop fastening assembly
- 8 strand nylon polyester grounding tab
- Will not mark shoes

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Adjustable Hook and Loop Heel Strap w/1 Meg Res.	16-1024-ND	10.24	17200
D-Ring Adjustable Heel Strap w/1 Meg Res.	16-1025-ND	14.02	07590

Jewel Premium Wrist Straps



Desco-Charleswaters new Jewel series of adjustable wristbands are a patented lifetime warranty cord and wrist strap. Reliable path to ground construction that are available in a variety of matching colors. Elastic Adjustable Wrist Straps and Coil Cords

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Wrist Strap 6' Cord (Sapphire)	16-1037-ND	24.34	09100
Wrist Strap 6' Cord (Ruby)	16-1038-ND	24.34	09102
Wrist Strap 6' Cord (Topaz)	16-1039-ND	24.34	09103
Wrist Strap 6' Cord (Emerald)	16-1040-ND	24.34	09104
Wrist Strap 6' Cord (Amethyst)	16-1041-ND	24.34	09110

Chemtronics®

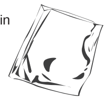
ESD Hand Lotion

Non-contaminating hand lotion for electronics. Contains no silicon. Non-greasy formula with a fresh natural fragrance in an 8 oz. (.24 liter) pump. Minimizes potential for static damage and build-up. Won't affect the solderability of components or PCBs.

Digi-Key Part No.	Price Each 1	 25	 100	 500	Chemtronics Part No.
C805-ND	6.26	5.66	5.28	4.81	C805

3M Static Control Products

Reusable Transparent Static-Shielding Bags



(2100 Series Metal-Out): 3M 2100R bags are produced with a proprietary "metal-out" construction in which the shielding layer is very near the exterior surface. A thin abrasion-resistant coating protects this metal surface from scratches, but still permits measurement of electrical continuity with common volt-ohmmeters for easy verification of shielding performance prior to reuse.

Economy Static-Shielding Bags

(1900 Series Metal-In): Use these more economical Static Shielding Bags for less demanding applications where reuse and high durability are not a prime consideration. The metal-in aluminum vapor coating is on a thinner 0.48 mil polyester as opposed to the 0.92 mil polyester in the 2100 series.

Economy ZipBag Static-Shielding Bags

(1910 Series Metal-In): The 1910 features a dual track closure for easy opening and closing.

Size Inch (cm)	Digi-Key Part No.	Price Each 25	 100	3M Part No.
2100R Series Metal-Out Transparent Shielding Bags, 3 mil				
3 x 5 (7.62 x 12.70)	SCP193-ND	.20	.18	2100R 3x5
4 x 6 (10.16 x 15.24)	SCP194-ND	.26	.23	2100R 4x6
5 x 8 (12.70 x 20.32)	SCP195-ND	.43	.38	2100R 5x8
6 x 10 (15.24 x 25.40)	SCP196-ND	.49	.44	2100R 6x10
7 x 15 (17.78 x 38.10)	SCP200-ND	.68	.61	2100R 7x15
8 x 10 (20.32 x 25.40)	SCP201-ND	.54	.49	2100R 8x10
1900 Series Metal-In Transparent Shielding Bags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP153-ND	.10	.09	1900 3x5
4 x 6 (10.16 x 15.24)	SCP154-ND	.11	.10	1900 4x6
4 x 24 (10.16 x 60.96)	SCP155-ND	.29	.26	1900 4x24
4 x 30 (10.16 x 76.20)	SCP156-ND	.36	.33	1900 4x30
5 x 8 (12.70 x 20.32)	SCP157-ND	.16	.14	1900 5x8
6 x 10 (15.24 x 25.40)	SCP158-ND	.20	.18	1900 6x10
8 x 10 (20.32 x 25.40)	SCP159-ND	.25	.22	1900 8x10
8 x 12 (20.32 x 30.48)	SCP160-ND	.27	.24	1900 8x12
10 x 14 (25.40 x 35.56)	SCP161-ND	.38	.35	1900 10x14
12 x 16 (30.48 x 40.64)	SCP162-ND	.52	.47	1900 12x16
1910 Series Metal-In Shielding ZipBags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP165-ND	.13	.12	1910 3x5
4 x 6 (10.16 x 15.24)	SCP166-ND	.15	.14	1910 4x6
5 x 8 (12.70 x 20.32)	SCP167-ND	.21	.19	1910 5x8
6 x 10 (15.24 x 25.40)	SCP168-ND	.27	.25	1910 6x10
8 x 10 (20.32 x 25.40)	SCP169-ND	.34	.30	1910 8x10
10 x 12 (25.40 x 30.48)	SCP170-ND	.45	.41	1910 10x12
12 x 16 (30.48 x 40.64)	SCP171-ND	.70	.63	1910 12x16

Labels

Fig. 1

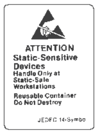

ATTENTION
Static-Sensitive Devices
Handle Only at Static-Safe Workstations
Reusable Container Do Not Destroy
JEDEC 14-Symbo

Fig. 2

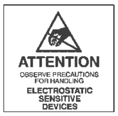
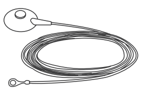

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

Fig.	Digi-Key Part No.	Size Inch (mm)
1	SCP129-ND	1.75 x 2.5 (44.45 x 63.5)
	SCP128-ND	1.75 x 2.5 (44.45 x 63.5)
2	SCP127-ND	2 x 2 (50.80 x 50.80)
	SCP126-ND	2 x 2 (50.80 x 50.80)
	SCP130-ND	4 x 4 (101.60 x 101.60)

Description	Quantity (per roll)	Digi-Key Part No.	Price Each	3M Part No.
(JEDEC-14) Orange†•	500	SCP129-ND	31.14	7101
(JEDEC-14) Yellow†*	500	SCP128-ND	34.62	7102
(Mil. Std. 129J) Yellow†•	500	SCP127-ND	39.38	7201
(Mil. Std. 129J) Yellow†*	500	SCP126-ND	39.38	7202
(Mil. Std. 129J) Yellow†•	250	SCP130-ND	63.78	7203

† With Black type • Reusable * Destructible

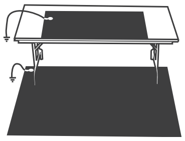
Grounding Cord



15 ft. (4.6 meter) Pre-installed male snap fastener with integral one megohm resistor on one end, solderless terminal on other end.

Description	Digi-Key Part No.	Price Each	3M Part No.
Grounding Cord	SCP114-ND	11.71	3040

Workstation Grounding Kits



Grounding Kits provide the basic items needed to create a static-safe work environment They include a floor mat, table mat, adjustable wrist strap with grounding cord and accessories to properly connect all of the kit components.

Kit Includes:

- Table Mat, 2 ft. x 4 ft. (.6m x 1.2m)
- Floor Mat, 4 ft. x 6 ft. (1.2m x 1.8m)
- 3M 3040 Ground Cord, 15 ft. (4.6m)
- 3M 3048 Grounding System for Wrist Strap/Table Mat
- 3M 2214 Adjustable Wrist Strap

8020 Series Workstation Grounding Kit:

The 3M 8020 Workstation Grounding Kits provide the complete static protection offered by all the 3M kits. Both the floor and table (8200) mats are made from soft three layer static dissipative material.

8030 Series Workstation Grounding Kit:

These kits contain two different types of static control mats. The table mat is made of the soft three-layered, static dissipative 8200 material, while the floor (1864) mat is of the more rigid, conductive Velostat material.

Description	Digi-Key Part No.	Price Each	3M Part No.
Matching Table and Floor Mats			
Brown, 3 Layer Construction	SCP121-ND	392.00	8021
Beige, 3 Layer Construction	SCP122-ND	392.00	8022
Gray, 3 Layer Construction	SCP123-ND	392.00	8023
Blue, 3 Layer Construction	SCP211-ND	392.00	8024
Granite, 3 Layer Construction	SCP178-ND	392.00	8025
Colored Table Mat with Black Velostat Floor Mat			
Brown, 3 Layer Table Mat	SCP179-ND	369.23	8031
Gray, 3 Layer Table Mat	SCP180-ND	369.23	8033
Blue, 3 Layer Table Mat	SCP213-ND	369.23	8034
Granite, 3 Layer Table Mat	SCP181-ND	369.23	8035

Grounding System for Wrist Strap/Table Mat

Easily snaps onto mats and runners; grounds two single conductor wrist straps. Comes complete with ring connector and 15 ft. (4.6 m) ground cord. Ground cord has 1-megohm resistor for mat connection only.

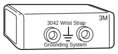
SCP206-ND..$16.29 each

Single Card Carrier

Single card carriers protect individual PCB's from static and physical damage during storage and transport. Interiors are lined with dissipative foam cushioning. The lid of each carrier can be modified for identification labels or company logos.
The 12 compartment tray is a molded ESD safe tray for transporting components within the plant or for storing components during PCB assembly.

Description	Digi-Key Part No.	Price Each	3M Part No.
12 Compartment ESD Safe Molded Tray for Components	SCP236-ND	42.84	4063
Card Carrier 10" x 8" x 1.25" with Hinged Lid	SCP237-ND	23.27	8520
Card Carrier 12" x 9" x 1.25" with Hinged Lid	SCP238-ND	28.92	8521
Card Carrier 18" x 17" x 2" with Hinged Lid	SCP239-ND	58.99	8522
Card Carrier 10" x 8" x 2" with Hinged Lid	SCP190-ND	27.00	8523

Wrist Strap Grounding System



Wrist Strap Grounding System with two banana jacks and one 10 ft. (3.0m) grounding cord.

SCP115-ND..$20.60 each

Wrist Strap Workstation Monitor

The 3M 724 Wrist Strap Workstation Monitor continuously verifies the resistance of the operator and work surface ground connections. The monitor uses a reliable resistance method that actually includes the operator's skin resistance to determine if the system is operating properly. If the operator's resistance exceeds 10 megohms or 35 megohms, or the wiring connections exceed 3.7 megohms, audible and visible alarms are triggered. The unit will also warn of potentially dangerous low-resistance situations.

The monitor uses the light and compact dual conductor wrist strap. Dual conductors provide the resistance circuit that is monitored as well as provide grounding redundancy. If one conductor fails, the other will still function to prevent sensitive components from being exposed to static.

Comes complete with a quick connect/disconnect 732 Remote Jack and mounting hardware. 6.5 in. x 3.25 in. x 1.5 in. (162mm x 82mm x 38mm)

Description	Digi-Key Part No.	Price Each	3M Part No.
Workstation Monitor Kit w/HDWR	SCP226-ND	145.14	724
Dual Conductor Fabric Wrist Strap Adjustable	SCP232-ND	8.12	2368
Dual Conductor Coiled Cord 5'	SCP233-ND	16.36	2360
Dual Conductor Coiled Cord 10'	SCP234-ND	18.99	2370

Dissipative Mats

8200 Series:

Vinyl mats are soft table and floor mats with a unique three-layer construction. The top layer is durable static dissipative vinyl, which has sufficiently low resistance to discharge static-laden conductors, yet will prevent the shorting of pins on the backs of printed circuit boards laid on the mat.

8200 Series Floor Mats includes one 15 ft. (4.6m) 3040 Ground Cord and two 3050 Snap Fasteners (installed).

8210 Series Table Mats includes two 3M 3050 Snap Fasteners (installed) and one 3M 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

8800 Series:

Rubber mats consist of a top layer of static dissipative rubber laminated to a bottom layer of conductive rubber. Both layers are made from vulcanized synthetic rubber, which offers excellent resistance to oil, grease and most common solvents. They offer superior resistance to heat and hot solder as compared to vinyl or olefinic materials.

8810 Series Table Mats includes two 3034 Snap Fasteners (installed) and one 3048 Wrist Strap Grounding System.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mats			
Vinyl, Brown, 4 x 6 ft.	SCP214-ND	138.62	8201
Vinyl, Gray, 4 x 6 ft.	SCP215-ND	138.62	8203 FLOOR MAT
Vinyl, Blue, 4 x 6 ft.	SCP216-ND	138.62	8204 FLOOR MAT
Vinyl, Granite, 4 x 6 ft.	SCP217-ND	198.59	8205
Table Mats			
Vinyl, Gold, 2 x 4 ft.	SCP218-ND	84.11	8210 TABLE MAT
Vinyl, Brown, 2 x 4 ft.	SCP219-ND	55.17	8211 TABLE MAT
Vinyl, Beige, 2 x 4 ft.	SCP220-ND	84.11	8212
Vinyl, Gray, 2 x 4 ft.	SCP221-ND	55.17	8213
Vinyl, Blue, 2 x 4 ft.	SCP222-ND	55.17	8214
Vinyl, Granite, 2 x 4 ft.	SCP223-ND	84.11	8215
Rubber, Gray, 2 x 4 ft.	SCP224-ND	63.39	8810
Rubber, Blue, 2 x 4 ft.	SCP225-ND	63.39	8811

Conductive Mats and Runners

1864 Floor Mat is a semi-flexible conductive floor mat that contains a rubber filler for resilience. It also has a textured surface for better traction. It includes two 3034 Snap Fasteners (installed) and one 15 ft. (3.0m) Ground cord with a 1 megohm resistor.

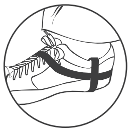
1864R Floor Runner is a 50 ft. (15.24m) long runner of the 1864 mat material. It includes two 15 ft. (3.0m) 3040 Ground Cords with 1 megohm resistor, five 3034 Snap Fasteners and one Snap Fastener Installation Tool.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mat, Black, 0.125 in. (3mm) 4 x 6 ft. (1.2 x 1.8m)	SCP209-ND	245.39	1864 (1/8x4x6)
Floor Runner, Black, 0.125 in. (3mm) 2 x 50 ft. (0.6 x 15m)	SCP210-ND	920.79	1864R

3M

Static Control Products

Static Control Shoe Grounding Assemblies (Heel Straps)



Long lasting Static Control heel straps provide static protection while retaining worker mobility

- Increase personnel mobility
- One size fits most shoe
- Extra long contact ribbon accommodates most boots.

Note: The Grounding Assemblies are not to be used in areas where the individual may come in contact with electrical circuitry exceeding 250 volts.

Description	Digi-Key Part No.	Price Each	3M Part No.
With 1meg Ohm Resistor	SCP163-ND	7.86	2051
With 240K Ohm Resistor	SCP164-ND	7.86	2052

Field Service Kit

Static-Dissipative Portable Field Service Kit:

- Static-dissipative work mat with two pockets, .024 in. x 2 ft. x 2 ft. (0.6mm x 61cm x 61cm)
- Grounding cord assembly with alligator clip
- Charge-Guard™ Series adjustable wrist strap

Lightweight Field Service Kit

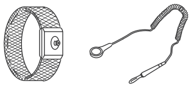
The small lightweight kit offers the same level of static control as the full-sized 3M 8501 Field Service Kit, yet is small enough to fit in a shirt pocket.

Kit Includes:

- Static-dissipative work surface with pocket 0.015 in. x 15 in. x 20 in. (.38mm x 38.10cm x 50.80cm)
- 2204 Adjustable Wrist Band
- Lightweight Heavy-Duty Coiled Ground Cords: 2240 Wrist strap ground cord, 5 ft. (1.52m); 2243 Extension ground cord, 5 ft. (1.52m); 3063 Work surface ground cord 5 ft. (1.52m)
- 3038 Alligator Clip

Description	Digi-Key Part No.	Price Each	3M Part No.
Field Service Kit	SCP124-ND	59.89	8501
Lightweight Field Service Kit	SCP182-ND	87.69	8505

Charge-Guard™ Adjustable Wrist Strap



Flex life 1,000,000.

Wrist straps are the front line of defense in all static control processes.

Ensure a comfortable fit with the Charge-Guard™ Series Adjustable Wrist Strap.

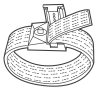
One size adjusts to any size wrist to provide reliable, 360 degree protection.

Charge-Guard™ Disposable Wrist Strap

The Charge-Guard™ Disposable Wrist Strap provides cost-effective and reliable static protection.

The wrist strap is suited for shipping valuable products to ensure protection at the receiving end.

Highland Model™ 2272 Adjustable Static Control Wrist Strap



Flex life 350,000.

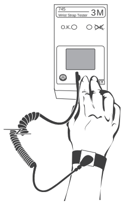
Conductive comfort band — Silver-plated, continuous monofilament threads establish a 360° contact zone and a reliable path to ground.

The banding gently contacts the skin and allows it to breathe for extreme comfort.

The stainless steel backplate secures the end of the band in the clasp and ensures reliable electrical bond.

Description	Digi-Key Part No.	Price Each	3M Part No.
Wrist Strap with Coiled Cord, 5 ft.	SCP141-ND	16.38	2214
Wrist Strap with Coiled Cord, 10 ft.	SCP142-ND	22.75	2224
Wrist Strap with Heavy-Duty, Coiled, 5 ft.	SCP143-ND	19.96	2244
Replacement Wrist Bands	SCP144-ND	6.53	2204
Disposable Wrist Strap	SCP145-ND	1.14	2209
Adjustable Wrist Strap, with 5 ft. Coiled Grounding Cord and Alligator Clip	SCP172-ND	7.10	2272
Adjustable Wrist Strap	SCP173-ND	3.09	2271
Adjustable Lay-in Wrist Strap	SCP176-ND	4.10	2216

Charge-Guard™ 746 Wrist Strap Tester



The 746 wrist strap tester is a compact unit much like the 745 but it operates on either battery or AC power.

Can be used in production facilities to field service locations.

Unit comes complete with an AC adapter, lithium battery and wall mounting kit.

SCP235-ND...$195.21

Wall Mount Wrist Strap Tester

The 3M 740 Wrist Strap Tester is an AC-powered unit designed to be wall-mounted in a production facility for daily testing of employees' static control wrist straps.

Simple to operate, with red and green LEDs giving a clear "go" or "no go" indication.

Comes with the base unit, output connector, wall-mounting system and template, cover for the wrist strap plug-in jack and the AC/DC transformer.

5.43 x 7.48 x 2.09 in. (13.8 x 19.0 x 5.3cm).

SCP204-ND...$414.12

Velostat™ Table Mat

Velostat Table Mat. Conductive 1/15 in. (1.5mm) thick, 2 ft. x 4 ft. (0.6mm x 1.2 mm), with two female snap connectors installed, and one Table Mat Grounding System.

SCP102-ND...$73.31 each

Ionized Air Blowers

The 963 neutralizes static charge on nonconductive materials and helps prevent static from damaging sensitive electronic components.

120 Volts, 6 x 6 x 2.5 inches.

SCP207-ND ....$387.19 each

ACL Staticide® Static Control Products

General Purpose Staticide

(For Non-Porous Surfaces)

Solves static related problems such as:

- The attraction of dirt, dust and bacteria to all environmental surfaces, products and product packaging.
- Charge generation on surfaces of tote boxes and carriers used to process and store electronic components.
- Damage or destruction of sensitive electronic components and subassemblies during their manufacture, shipping or receiving.
- Data processing "glitches" ... memory loss, data errors, paper jams.

ST1002-ND (quart) $9.16

Heavy Duty Staticide

(For Porous Surfaces)

- Ideal for eliminating costly static problems on carpeting.
- Ideal for eliminating jamming or slipping of materials during printing, packaging or converting.
- Ideal for eliminating ignition of combustible vapors, dust or solvents causing fire or explosion.

ST1003-ND (quart)...$15.17

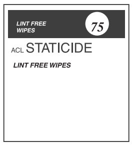
Anti-Glare Screen Cleaner

Perfect for monitors and screens, won't streak or stain.

4oz. bottle with pump.

ST1025-ND...$4.57

Industrial Size Wipes



These strong, highly absorbent lint free cloths are for use on any surface. Ideal for computer screens and computer screen filters.

ST1031-ND (Bundle of 75).........$10.04

Twice the size of a conventional wipe 11 x 8. The extra big wipe with muscle.

- Ideal for use in industrial, commercial and technical environments.

ST1006-ND (Box of 50)....................................$28.19

Notebook/Laptop Cleaning Wipes

Designed exclusively for all notebook computer screens for use to remove fingerprints, ink, nicotine and other contaminants.

60 presaturated wipes in a handy dispenser.

ST1020-ND $11.54

ESD Hand Sanitizer

This product provides excellent sanitization without the use of water or towels; contains 60% ethyl alcohol to prevent bacterial transfer.

Use in place of bacterial soap where static conditioning of the hands are not affected.

ST1030-ND..................................$10.53

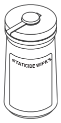
CD-ROM Scratch Repair Kit

Fix those damaged CD's.

Repairs scratches and cleans fingerprints, dust and dirt. Staticide's new solution combines safe and effective cleaners with special polymers that actually molecularly bond to the disc surface repairing the toughest scratches. Use on both old and new discs, regularly to actually make them more durable.

ST1019-ND...$14.69

Premoistened Wipes



Meets or exceeds military electrostatic decay criteria. This long lasting wipe prevents dust attraction, is biodegradable, and is safe and easy to use. For use on all materials that are not adversely affected by water or alcohol.

Wipes supplied in reclosable container.

ST1027-ND Premoistened Staticide Wipes..............$12.11

An effective way to clean and disinfect hard non-porous surfaces. Cleans and disinfects telephones, earphones, and other telecommunications equipment.

Wipes supplied in reclosable container.

ST1028-ND Staticide Telephone Cleaning Wipes.......$12.11

These pre-moistened wipes contain a unique solution that cleans better and keeps lenses cleaner longer. Ideal for cleaning most types of glass and plastic lenses including goggles, cameras, binoculars, microscopes, camcorders and magnifiers. It also fights fog build-up.

Wipes supplied in reclosable container.

ST1029-ND Staticide Clean & Clear Optical Wipes $12.11

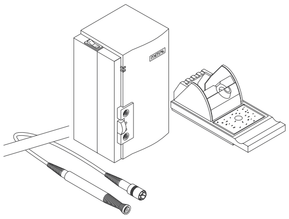
METCAL
DIVISION OF OK INTERNATIONAL

MX Series Rework Soldering Systems and Replacement Parts

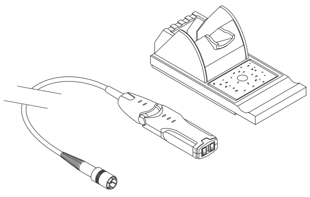
Features:

SmartHeat® Technology. Metcal's tip cartridges sense the load and instantly adjust power to quickly deliver the right amount of heat precisely where it is needed. Metcal systems use SmartHeat® technology that is incapable of overshoot and can deliver high throughput at lower temperatures. Because the interchangeable SmartHeat® cartridges contain a heater and temperature self-regulating alloy, Smart-Heat® systems require no calibration. SmartHeat® technology systems need no dials or readouts, tip cartridges specify the temperature by series, providing continuous temperature for fast, easy, and safe soldering.

Metcal's Talon® easy-squeeze design makes removing SMD components a snap. Talon® was designed with ergonomics, style, and superior performance in mind. Beveled edge tips allows rework of several different components without changing tip cartridges.



Includes: Two port systems, workstation, sponge and cartridge removal pad.
Tips sold separately.



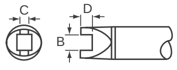
Talon SMT Tweezer Kit.
Tips sold separately.

Description	Digi-Key Part No.	Price Each	Metcal Part No.
Rework System with Dual Expansion Port,100/120VAC	389-1000-ND	705.73	MX-500S-11
Replacement Rework Handpiece with Cord, ESD Safe, for MX Systems	389-1001-ND	92.22	MX-RM3E
Optional Talon® SMT Tweezer Kit, Includes Handpiece with Cord, Workstand, Sponge, and Cartridge Removal Pad	389-1002-ND	347.95	MX-TALON-01
Tip Stand for MX Series	389-1045-ND *NEW!*	40.00	AC-TSTAND

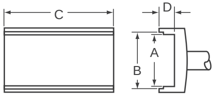
Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
500°F Tip Cartridges for MX Series Rework Systems				
.203 (5.156)	XL Chisel	389-1003-ND	23.80	STTC-517
.094 (2.388)	Chisel	389-1006-ND	23.80	STTC-536
.050 (1.270)	Chisel	389-1082-ND *NEW!*	22.59	STTC-541
.047 (1.194)	Chisel	389-1007-ND	23.80	STTC-538
.031 (0.787)	Chisel	389-1005-ND	23.80	STTC-525
.016 (0.406)	Conical Sharp	389-1004-ND	23.80	STTC-522
.016 (0.406)	Sharp Bent	389-1080-ND *NEW!*	22.59	STTC-526
.016 (0.406)	Sharp Bent	389-1081-ND *NEW!*	22.59	STTC-540
.008 (0.203)	Bevel	389-1008-ND	23.80	STTC-545
.008 (0.203)	Bevel	389-1083-ND *NEW!*	22.59	STTC-590
600°F Tip Cartridges for MX Series Rework Systems				
.203 (5.156)	XL Chisel	389-1009-ND	23.80	STTC-017
.094 (2.388)	Chisel	389-1011-ND	23.80	STTC-036
.063 (1.600)	Chisel	389-1012-ND	23.80	STTC-037
.047 (1.194)	Chisel	389-1013-ND	23.80	STTC-038
.040 (1.020)	Chisel	389-1064-ND *NEW!*	22.59	STTC-025
.016 (0.406)	Conical Sharp	389-1010-ND	23.80	STTC-022
.016 (0.406)	Sharp Bent	389-1065-ND *NEW!*	22.59	STTC-026
.016 (0.406)	Sharp Bent	389-1066-ND *NEW!*	22.59	STTC-040
.008 (0.203)	Bevel	389-1014-ND	23.80	STTC-045
.008 (0.203)	Bevel	389-1067-ND *NEW!*	22.59	STTC-090
NEW! 700°F Tip Cartridges for MX Series Rework Systems NEW!				
.200 (5.080)	X-Large Chisel	389-1070-ND	22.59	STTC-117
.100 (2.540)	Chisel	389-1074-ND	22.59	STTC-136
.070 (1.780)	Chisel	389-1075-ND	22.59	STTC-137
.060 (1.520)	Chisel	389-1076-ND	22.59	STTC-138
.040 (1.020)	Conical Sharp	389-1069-ND	22.59	STTC-107
.040 (1.020)	Chisel	389-1072-ND	22.59	STTC-125
.020 (0.510)	Sharp Bent	389-1078-ND	22.59	STTC-144
.016 (0.406)	Conical Sharp	389-1068-ND	22.59	STTC-106
.016 (0.406)	Conical Sharp	389-1071-ND	22.59	STTC-122
.016 (0.406)	Sharp Bent	389-1073-ND	22.59	STTC-126
.016 (0.406)	Sharp Bent	389-1077-ND	22.59	STTC-140
.016 (0.406)	Bevel	389-1079-ND	22.59	STTC-145
NEW! 800°F Tip Cartridges for MX Series Rework Systems NEW!				
.120 (3.050)	Chisel	389-1084-ND	25.70	STTC-803

SMT Solder - Desolder Tips

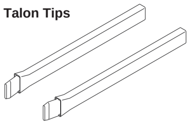
Slot Tip



Tunnel Tip - SOIC



Talon Tips



Tip Dimensions Inches (mm) A	B	C	D	SMD Component	Digi-Key Part No.	Price Each	Metcal Part No.
500°F SMD Slot Tip Cartridges for MX Series Rework Systems							
—	.090(2.286)	.050(1.270)	.070(1.778)	Chip 0805	389-1015-ND	38.45	SMTC-501
—	.140(3.556)	.060(1.524)	.070(1.778)	Chip 1206, 1210	389-1016-ND	38.45	SMTC-502
—	.068(1.727)	.100(2.540)	.050(1.270)	SOT-23	389-1017-ND	38.45	SMTC-505
—	.110(2.794)	.250(6.350)	.080(2.032)	SOT-89	389-1018-ND	38.45	SMTC-508
—	.070(1.778)	.040(1.016)	.035(0.889)	Chip 0402, 0603	389-1019-ND	38.45	SMTC-596
—	.080(2.030)	.050(1.270)	.060(1.520)	Chip 0402, 0603, 0805	389-1050-ND *NEW!*	36.51	SMTC-588
600°F SMD Tunnel Tip Cartridges for MX Series Rework Systems							
.200(5.080)	.200(5.080)	.170(4.318)	.090(2.286)	SOIC-8	389-1020-ND	43.98	SMTC-004
.200(5.080)	.200(5.080)	.400(10.160)	.090(2.286)	SOIC-14, SOIC-16	389-1021-ND	43.98	SMTC-006
.375(9.525)	.375(9.525)	.720(18.288)	.125(3.175)	SOIC-28, SOL-34	389-1022-ND	43.98	SMTC-007
.375(9.525)	.375(9.525)	.620(15.748)	.125(3.175)	SOIC-24	389-1023-ND	43.98	SMTC-009
.375(9.525)	.375(9.525)	.520(13.208)	.125(3.175)	SOIC-20	389-1024-ND	43.98	SMTC-010
NEW! 700°F Quad Tip Cartridges for QFP NEW!							
.440(11.18)	.480(12.19)	.480(12.19)	.110(2.79)	TQFP-44	389-1047-ND	65.51	SMTC-1159

Description	Digi-Key Part No.	Price Each	Metcal Part No.
NEW! Hoof and Knife Tip Cartridges for Drag Soldering NEW!			
.650 x .060 (16.51 x 1.52), Mini Hoof, 600°F	389-1046-ND	43.78	SMTC-0167
.650 x .190 (16.51 x 4.83), Knife, 700°F	389-1047-ND	65.51	SMTC-1161
.650 x .060 (16.51 x 1.52), Mini Hoof, 700°F	389-1048-ND	43.78	SMTC-1167

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
500°F Tip Cartridges for Talon® Series Tweezer Handpiece				
0.250 (6.350)	Beveled Blades	389-1025-ND	108.49	TATC-502
0.620 (15.748)	Beveled Blades	389-1026-ND	108.49	TATC-503
0.810 (20.574)	Beveled Blades	389-1027-ND	108.49	TATC-504
600°F Tip Cartridges for Talon® Series Tweezer Handpiece				
0.050 (1.270)	Angled Viper Tip	389-1086-ND *NEW!*	103.00	TATC-608
0.200 (5.080)	Fine Point Tip	389-1085-ND *NEW!*	103.00	TATC-601
0.250 (6.350)	Beveled Blades	389-1028-ND	108.49	TATC-602
0.620 (15.748)	Beveled Blades	389-1029-ND	108.49	TATC-603
0.810 (20.574)	Beveled Blades	389-1030-ND	108.49	TATC-604

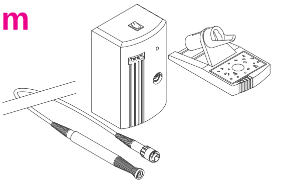
Note: TATC tip cartridges are for use with Talon only.

Desoldering Tips for MX Rework Systems

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
.025 (.635)	600 Series	389-1062-ND *NEW!*	37.65	STDC-002
.040 (1.020)	700 Series	389-1063-ND *NEW!*	37.65	STDC-104

SP200 Soldering System

Features:
The SP200 is an ideal choice for thru-hole soldering and surface mount touchup. As with all Metcal SmartHeat systems, there is no calibration required.



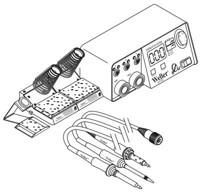
Replacement Handle Includes:
- Handle
- Cord

Tips are sold separately.

Description	Digi-Key Part No.	Price Each	Metcal Part No.
Soldering System, 115VAC	389-1031-ND	326.53	SP200-11
Replacement Solder Handpiece for SP200	389-1032-ND	65.09	SP-HC1
Cartridge Removal Pad	389-1044-ND *NEW!*	6.18	AC-CP2

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
500°F Soldering Tip Cartridges for SP200 Series				
.125 (3.175)	Multi-lead Hoof	389-1035-ND	26.63	SSC-539A
.050 (1.270)	Mini Hoof	389-1037-ND	26.63	SSC-567A
.031 (0.787)	Conical Sharp	389-1033-ND	16.33	SSC-501A
.016 (0.406)	Conical Sharp	389-1034-ND	16.33	SSC-522A
.016 (0.406)	Conical Sharp	389-1036-ND	16.33	SSC-545A
600°F Soldering Tip Cartridges for SP200 Series				
.094 (2.388)	Chisel	389-1040-ND	16.33	SSC-636A
.063 (1.600)	Chisel	389-1041-ND	16.33	SSC-637A
.047 (1.194)	Chisel	389-1042-ND	16.33	SSC-638A
.040 (1.020)	Conical Sharp	389-1051-ND *NEW!*	15.51	SSC-601A
.031 (0.787)	Chisel	389-1039-ND	16.33	SSC-625A
.020 (0.510)	Sharp Bent	389-1053-ND *NEW!*	15.51	SSC-654A
.016 (0.406)	Conical Sharp	389-1038-ND	16.33	SSC-622A
.016 (0.406)	Conical Sharp	389-1043-ND	16.33	SSC-645A
.016 (0.406)	Sharp Bent	389-1052-ND *NEW!*	15.51	SSC-626A
NEW! 700°F Soldering Tip Cartridges for SP200 Series NEW!				
.100 (2.540)	Chisel	389-1058-ND	15.51	SSC-736A
.070 (1.780)	Chisel	389-1059-ND	15.51	SSC-737A
.040 (1.020)	Conical Sharp	389-1054-ND	15.51	SSC-701A
.040 (1.020)	Chisel	389-1056-ND	15.51	SSC-725A
.020 (0.510)	Conical Sharp	389-1055-ND	15.51	SSC-722A
.020 (0.510)	Sharp Bent	389-1061-ND	15.51	SSC-754A
.016 (0.406)	Sharp Bent	389-1057-ND	15.51	SSC-726A
.016 (0.406)	Bevel	389-1060-ND	15.51	SSC-745A

WRS3000S Soldering Station



(Through Hole and SMT Repair or Rework)

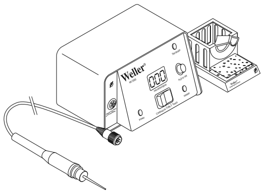
Thermal Tweezers

The WRS3000S combines all of the tools needed to cover most through hole and SMT repair or rework applications. The soldering tool is the powerful WSP80, featuring 80 watts of power to cover even the most difficult multi-layered applications. The desoldering tool is the DSV80. This tool features an inline design and 80 watts of power. Finally, the HAP1 Hot Air tool features a static free air stream that is heated by 100 watts of power. A full complement of nozzles are available for fine solder reflow or removing PLCC packages. The system is completely ESD safe, U.L. Approved and meets the Mil-Specs.

Features: • Self-contained • Closed loop controlled hand pieces • Digital display • Microprocessor control for the ultimate in accuracy • Lock-out equipped • Temperature setback • Separate control of air flow rate, time and temperature • Three independently controlled channels • Burn resistant cords • F/C degree selector • ESD safe • Meets U.L. requirements • Full range of tips for rework and repair available • Hot air and desoldering applications can be run without any separate switching • Temperature Range: 350°F to 850°F (177°C to 454°C) ***Note:*** *Tweezers will also work with EC series units.*

Description	Digi-Key Part No.	Price Each	Weller Part No.
Rework Station w/Hot Air & Irons	WRS3000S-ND	1599.00	WRS3000S
SMT Thermal Tweezers w/Stand	0053313399-ND	169.00	WTA50SET
Tip, 1mm Thermal Tweezers, 2 pc.	0054414199-ND	14.20	WT1
Tip, 3mm Thermal Tweezers, 2 pc	0054414699-ND	14.20	WTA2
Tip, 6mm Thermal Tweezers, 2 pc.	0054414799-ND	14.33	WTA3
Tip, 12.5mm Thermal Tweezers, 2 pc	0054414399-ND	25.83	WT4
Tip, 18.5mm Thermal Tweezers, 2 pc	0054414499-ND	25.83	WT5

MT1500 Soldering Station (Microtouch)



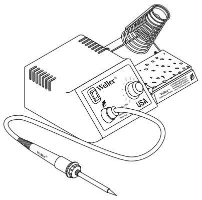
Features:

- Immediate, accurate tip temperature for faster soldering
- Quick tip change system, no tools required
- Expanded tip selection: .010 point to PLCC68 (over 50 available)
- Touch feature for extended tip life reduces operating cost
- Excellent thermal capacity improves performance in all applications
- Immediate response to thermal loads improves productivity
- Complete control with adjustable temp. and digital display
- Three basic modes: (1) Touch Mode: Intended for soldering very small components with microtips; (2) Idle Mode: Similar to Touch Mode, but uses large tips; (3) Continuous Mode: Suited for very large surface mount device tips
- Average tip temperature is calibrated to ±9°F (±5°C) at idle with no load
- Tip temperature range 400°F to 800°F (204°C to 427°C)
- Stability ±10°F (±6°C)
- Control setting resolution 1°F (1°C)
- Unit not provided with tip: tips to be purchased separately

Description	Digi-Key Part No.	Price Each	Weller Part No.
Microtouch Soldering Station	MT1500-ND*	599.00	MT1500
Tip, Screwdriver, 1.19mm W x 5.08mm	MT301-ND	46.45	MT301
Tip, Conical, .38 dia. x 5.08mm	MT302-ND	46.45	MT302
Tip, Screwdriver, 1.78mm	MT601-ND	46.45	MT601
Tip, Bevel, .51mm	MT607-ND	46.45	MT607
Tip, SMT Blade, 10.41mm Long	MT617-ND	98.28	MT617
Tip, SMT Blade, 20.83mm Long	MT1205-ND	98.28	MT1205
Tip, PLCC68, 25.53mm Sq.	MT1208F-ND	157.02	MT1208

* 5 year unconditional warranty for "MT1500-ND".

NEW! WES51 and WESD51 Soldering Stations

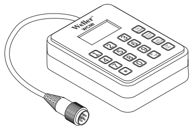


Features and Benefits:

- Cordless temperature lockout to prevent operators from raising the temperatures to levels higher than specified for the board or component. Gives you control over the process
- Cordless Tip Temperature Calibration, which provides the user with the capability of resetting station temperature readings to variations in tip sizes and styles
- Quick heat-up and temperature recovery — allows continuous production soldering
- Slim, comfortable hand piece — reduces operator fatigue
- Accuracy within 9°F (5°C)
- Temperature range: 350°F to 850°F (177°C to 454°C)
- ESD Safe to protect sensitive components
- Uses ET Series Tips

WES51-ND	Analog 50 Watt Soldering Station	**$99.00**
WESD51-ND	Digital 50 Watt Soldering Station	**$157.50**
PES51-ND	Replacement Iron	**$34.85**

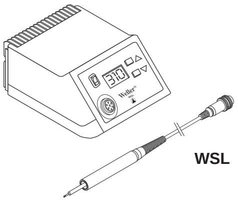
WS System Calibration Unit



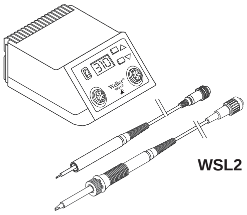
Features: • Designed to work with WS series soldering stations • Allows user to calibrate tip temperature of soldering iron to outside temperature reference • Enables timer setback mode (allows station to set back to 350°F (177°C) after period of inactivity) • Insert fixed temperature into station and turning off front panel control knob • Switching station display between °F or °C • Resetting station electronics to original factory calibration • Unit uses four "AA" alkaline batteries for power (included) • 3 month normal life expectancy of batteries • 16 button keypad • Three digit LED display • Connectors to attach to soldering station and iron

WCB1-ND	Calibration Unit	**$149.00**

NEW! WSL and WSL2 Digital Soldering Stations



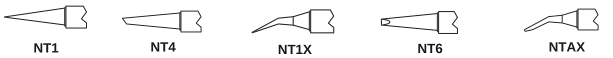
WSL



WSL2

WSL Includes: WSLPU power unit, WMP soldering pencil and WMPH stand and sponge. **WSL2 Includes:** WSL2PU power unit, WMP solderingpencil, WMPH stand and sponge, WSP80 soldering pencil WHP81 stand and sponge. **Features:** • Super-fast heat-up saves you time • Superior thermal recovery allows fast, efficient soldering • Tips are secured to the pencil by use of a threaded end, which eliminates the need for a barrel nut • Iron is fitted with a non-burnable silicone rubber cord for safety • The standard setback feature saves tip life and power. If the soldering pencil is not used for 20 minutes, the temperature is reduced to 300°F (150°C). After 60 minutes of inactivity, the unit is switched off. • The station's display is programmable using the optional WCB1 control module • Stations also support the WTA50 Thermal Tweezer, WHP80 Hot Plate, and WST80 Hot Plate, and WST20 Thermal Wire Stripper • ESD safe to protect sensitive components • UL and cUL listed • Use new NT series tips • Temperature Range: 150°F to 850°F (66°C to 454°C)

Replacement Tips for WMP

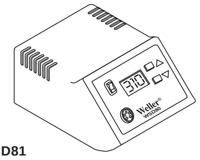


Description			Digi-Key Part No.	Price Each	Weller Part No.
Digital 65 Watt with Iron			WSL-ND	249.00	WSL
Dual Digital 65 Watt with 2 Irons			WSL2-ND	450.00	WSL2
Digital 65 Watt without Iron			WSLPU-ND	150.00	WSLPU
Dual Digital 65 Watt without Iron			WSL2PU-ND	249.00	WSL2PU
Soldering Iron 65 Watt with NTA Tip			WMP-ND	99.00	WMP-ND
Iron Stand for WMP Series			WMPH-ND	22.50	WMPH
Description	**Tip Dia. (mm)**	**Tip Length (mm)**	**Digi-Key Part No.**	**Price Each**	**Weller Part No.**
Replacement Tips					
Micro	0.25	7.40	NT1-ND	6.99	NT1
Micro	0.25	8.45	NT1S-ND	6.99	NT1S
Round	1.20	9.90	NT4-ND	6.99	NT4
Bent Round	0.40	8.15	NT1X-ND	8.99	NT1X
Chisel	1.60	9.45	NT6-ND	6.99	NT6
Chisel	1.60	8.40	NTA-ND	6.99	NTA
Chisel	2.40	7.35	NTB-ND	6.99	NTB
Chisel	3.20	7.75	NTC-ND	6.99	NTC
Bent Chisel	1.60	8.61	NTAX-ND	8.99	NTAX

NEW! WS "Silver Series" Soldering Stations

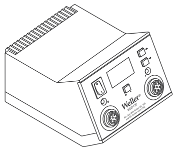
Experience immediate heat from the combination of a unique silver heating element and tip configuration allows faster, more efficient, soldering. Software has been upgraded to allow the power unit to cycle faster, giving you improved response time. A standard setback feature has been added to save tip life and power. If the soldering pencil is not used for 20 minutes, the temperature is reduced to 300°F (150°C). After 60 minutes of inactivity, the unit is switched off. High output pencil allows you to work with lead-free solder while keeping tip costs low. Programmable using the optional WCB1 control module - allows for temperature lockout (process control), temperature set-back (extended tip life) and °F to °C conversion. ESD safe to protect sensitive components.

Features: • Anti-static housing • Automatic tool recognition • All Weller accessories up to 80W may be connected • Dimensions (L x W x H): 165.10mm x 114.30mm x 101.60mm • Use LT Series tips



WSD81

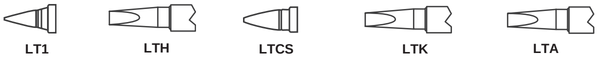
Specifications: • WSD81 includes WSD81PU power unit, WSP80 soldering pencil, and WPH81 stand and sponge • Temperature Range: 150°F to 850°F (66°C to 454°C) • Temperature Accuracy: ± 9°F (±5°C)



WSD161

WSD161 includes the power unit only. Soldering pencils and stands are sold separately. The WSD61 operates on two independently controlled channels. You can operate two 80 watt tools simultaneously. **Specifications:** • Temperature Range: 300°F to 850°F (150°C to 454°C) • Temperature Accuracy: ± 9°F (±5°C)

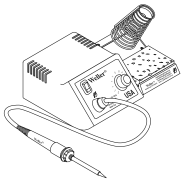
Replacement Tips for WSP80



Description			Digi-Key Part No.	Price Each	Weller Part No.
Digital Solder Station, 80 Watt with Iron			WSD81-ND *NEW!*	249.00	WSD81
Digital Dual Soldering Station 80 Watt*			WSD161-ND *NEW!*	249.00	WSD161
Replacement Solder Pencil, 80 Watt			WSP80-ND	99.00	WSP80
Solder Pencil Stand			WPH80-ND	15.00	WPH80
Iron Stand for WSP80 Series			WPH81-ND	22.50	WPH81
Description	**Tip Dia. (mm)**	**Tip Length (mm)**	**Digi-Key Part No.**	**Price Each**	**Weller Part No.**
Replacement Tips					
Round	0.25	10.90	LT1-ND	4.99	LT1
Chisel	0.8	10.90	LTH-ND	4.99	LTH
Round	3.2	10.90	LTCS-ND	4.99	LTCS
Chisel	1.2	18.50	LTK-ND	4.99	LTK
Chisel	1.6	9.70	LTA-ND	4.99	LTA

* Power Unit only. Soldering pencils and stands sold seperately.

Controlled-Output Soldering Station WTCPT Weller's Work Horse



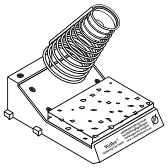
Specifications:
- Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron
- Special "closed loop" method of controlling maximum tip temperature to protect temperature sensitive components
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates at third pin of power cord
- PT series soldering tips come in a variety of shapes and sizes in three standard temperature ranges: 600°F (316°C), 700°F (371°C), and 800°F (427°C)
- Uses PT series tips

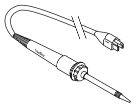
Description	Digi-Key Part No.	Price Each	Weller Part No.
Complete Station 24V Output	WTCPT-ND	136.00	WTCPT
Replacement Soldering Iron	TC201T-ND	71.43	TC201T

Professional Soldering Irons

WP25, WP30, WP35 Series Irons

Features:
- Fixed temperature units
- Ideal for a wide variety of electronic tasks
- Interchangeable heater elements - Single handle plus three different heating elements gives the user a trio of irons for different jobs
- Quick change knurled collar makes changing heater simple
- Lightweight handle with cushioned grip
- For additional safety, all irons come with 3-wire power cord
- Irons use ST series iron plated tips for long life and greater soldering efficiency
- Important: Use only Weller tips
- ST series tips
- UL Listed

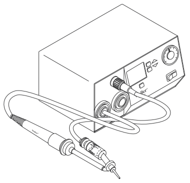




Description	Digi-Key Part No.	Price Each	Weller Part No.
Soldering Iron with ST3 Tip, 25 Watt*	WP25-ND	34.10	WP25
Soldering Iron with ST3 Tip, 30 Watt*	WP30-ND	36.85	WP30
Soldering Iron with ST3 Tip, 35 Watt*	WP35-ND	42.93	WP35
Soldering Iron Stand For WP Series*	PH60-ND	21.20	PH60
Knurled Tip Retaining Nut	KN60-ND	2.78	KN60

* Note that iron stand is sold separately.

WRS10022 Electronically Controlled Desoldering Station

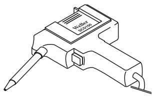


Features:
- Vacuum is generated with a self-contained pump
- 80 watts of power for faster heat up and better performance
- A wide range of DS series desoldering tiplets available
- WRS10022 comes with DS80 desoldering pencil with external solder collection chamber
- Station also supports Silver Series soldering pencil WSP80 and WMP Micro Pencil to give you added flexibility

Description	Digi-Key Part No.	Price Each	Weller Part No.
Complete Station 120V Output	WRS10022-ND *NEW!*	825.00	WRS10022
Replacement Tip, .79mm	DS112-ND	12.08	DS112
Replacement Tip, 1.85mm	DS114-ND	12.08	DS114
Glass Tube	0051360599-ND	3.95	0051360599
Kapton Strap	0051361699-ND	5.68	0051361699
Mineral Filters	0051360499-ND	2.26	0051360499

SCD100 Desoldering Gun

Self-contained desoldering gun draws solder into the disposable collector tube.

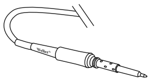


Description	Digi-Key Part No.	Price Each	Weller Part No.
Desoldering Gun, Self-contained	SCD100-ND	215.00	SCD100
Replacement Disposable Tube	SCD201-ND	9.39	SCD201
Replacement Tip, 0.9mm for SCD100	SCD112-ND	17.48	SCD112
Replacement Tip, 1.2mm for SCD100	SCD113-ND	17.48	SCD113
Replacement Tip, 1.8mm for SCD100	SCD114-ND	17.48	SCD114

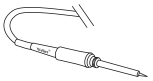
Soldering Irons

Specifications:
- Specifically designed for use at electrostatic free work stations
- Non-burnable silicon rubber cord
- Lightweight, high impact plastic handle
- Blue plastic meets requirements for ESD, Electrostatic Dissipative Materials
- Uses Weller EM series tips made of copper with heavy iron, nickel and chromium plating for long life
- UL listed

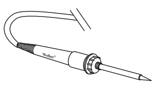
NOTE: EC1503B, EC1302B and EC1201A work with DEC1001 and EC1002.



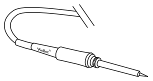
EC1503B
- Tool designed for difficult applications such as multilayer boards, large heat output from small tool
- Large tip iron for high wattage application



EC1302B
- Micro-soldering tool • Stainless steel heater element construction • Fine tip iron for light duty applications



EC1201A
- General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications



PES50
- General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications

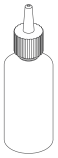
Description	Digi-Key Part No.	Price Each	Weller Part No.
42W Soldering Iron with EMA Tip	EC1503B-ND	117.17	EC1503A
20W Iron with EPH 101 Tip	EC1302B-ND	100.76	EC1302A
40W Soldering Iron with ETA Tip	EC1201A-ND	100.76	EC1201A
50W Soldering Iron with ETA Tip	PES50-ND	34.85	PES50
Replacement Sponge	TC205-ND	.97	TC205

Replacement Tips for Irons

Tip Dim. (mm)	Description	Digi-Key Part No.	Price Each	Weller Part No.
	EM Series Tips for EC1503B Iron			
1.57	Chisel Tip	EMA-ND	12.16	EMA
3.18	Chisel Tip, Long Reach	EMM-ND	12.16	EMM
.38	Conical Tip	EMD-ND	12.16	EMD
	PT Series Tips For TC201T Iron			
1.57	Screwdriver, 700°F (371°C)	PTA7-ND	5.43	PTA7
1.57	Screwdriver, 800°F (427°C)	PTA8-ND	5.43	PTA8
3.18	Screwdriver, 700°F (371°C)	PTC7-ND	5.43	PTC7
3.18	Screwdriver, 800°F (427°C)	PTC8-ND	5.43	PTC8
.79	Conical Flat, 700°F (371°C)	PTF7-ND	5.43	PTF7
.79	Conical Flat, 800°F (427°C)	PTF8-ND	5.43	PTF8
.38	Long Conical, 700°F (371°C)	PTS7-ND	5.43	PTS7
.38	Long Conical, 800°F (427°C)	PTS8-ND	5.43	PTS8
	EPH Series Tips for EC1302B Iron			
.38	Micropoint Tip	EPH101-ND	5.37	EPH101
.79	Bent Conical Tip	EPH102-ND	5.37	EPH102
1.57	Screwdriver Tip	EPH106-ND	5.37	EPH106
Replacement Barrel Nut Assort. for EPH Tip		EC231-ND	7.74	EC231
	ET Series Tips For EC1201A			
1.57	Screwdriver Tip	ETA-ND	5.12	ETA
2.36	Screwdriver Tip	ETB-ND	5.12	ETB
.79	Screwdriver Tip	ETH-ND	5.12	ETH
.79	Conical Tip	ETP-ND	5.12	ETP
.015	Single Flat Tip	ETU-ND	5.12	ETU
.38	Long Conical Tip	ETO-ND	5.12	ETO
	Tips For Professional Soldering Irons *ST Series Tips For WP25, WP30, WP35 Irons*			
1.57	Screwdriver Tip	ST1-ND	4.80	ST1
4.65	Screwdriver Tip	ST4-ND	4.80	ST4
.79	Single Flat Tip	ST5-ND	4.80	ST5
.79	Screwdriver Tip	ST6-ND	4.80	ST6

Weller®

Flux and Scrub-It® Solvent Dispensers

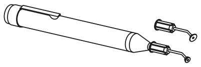


Flux Dispensers: • Both static safe and standard hold 2 ounces • Avoid spills and waste and place flux precisely where needed • Squeeze bottles dispense one drop of liquid resin, flux, oil solvent through stainless steel needles • Static dissipative models protect static-sensitive components

Scrub-It® Solvent Dispensers: • Squeeze dispenser to distribute solvent through brush • For cleaning printed circuit boards and other connections • No mess, no waste • Available with nylon bristles or horsehair for static-safe applications • Dispenser holds 2 ounces

Description	Digi-Key Part No.	Price Each	Weller Part No.
Flux Dispenser, 0.020" (.51mm) Needle	FD2-ND	2.55	FD2
Flux Dispenser, 0.008" (.20mm) Needle	FD21-ND	2.55	FD21
Flux Dispenser, 0.050" (1.27mm) Needle	FD22-ND	2.55	FD22
Scrub-It Bottle, Nylon Bristle	SD74-ND	8.68	SD74
Scrub-It Bottle, Horsehair ESD Safe	SD74H-ND	8.68	SD74H

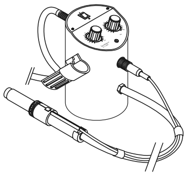
Vacuum Pickup Tool



- Vacuum pick up tool allows for easy and safe handling of components

Digi-Key Part No.	Price Each	Weller Part No.
WLSK200-ND	44.88	WLSK200

Hot Air Rework Station and Nozzles

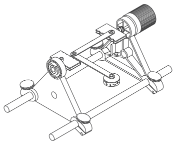


Features:

• Self-contained low cost hot air station with 700 watts of heating power to handle most bench top rework jobs • Extremely compact size uses less space on your rework bench • Temperature and air flow are controlled on the front panel - allows you to make settings quickly and easily • Air flow can be activated by either a finger switch on the hand piece or via an optional foot switch • Built-in hand piece holder saves bench space

Description	Digi-Key Part No.	Price Each	Weller Part No.
Self-Cont. Hot Air Station, 120V	WHA300-ND	699.00	WHA300
Hot Air Nozzle, 44 PIN PLCC	0058736814-ND	58.66	0058736814
Hot Air Nozzle, 84 PIN PLCC	0058736833-ND	73.54	0058736833
Hot Air Nozzle, 20 PIN PLCC	0058736839-ND	58.66	0058736839
Hot Air Nozzle, 68 PIN PLCC	0058736804-ND	58.66	0058736804
Hot Air Nozzle, 14 PIN SOIC-SO8	0058736843-ND	58.66	0058736843
Hot Air Nozzle, 20 PIN SOIC	0058736842-ND	58.66	0058736842
Hot Air Nozzle, SOT23	0058736870-ND	58.66	0058736870

0051502699 Circuit Board Vise



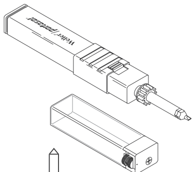
• Complete work center for placing, soldering and desoldering printed circuit boards • Spring clamps will hold work piece in place securely • Rotates through 360°, allowing work performance at any convenient angle • Adjustable features allow handling of variety of circuit board sizes • Maximum surface: 6-1/4"/160 mm x 9-1/8"/235 mm • 0051502699 is ESD SAFE

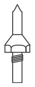
Description	Digi-Key Part No.	Price Each	Weller Part No.
Circuit Board Vise	0051502699-ND	45.47	0051502699

Weller® ***portasol®***

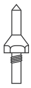
Cordless Soldering Irons and Tips

35 Watts





Conical

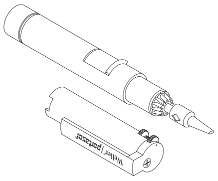


Chisel

Features:
- Patented soldering tool has a catalytic converter that provides a powerful yet safe flameless combustion
- Safety cut-off switch when cap replaced
- Two easily interchangeable screw-in tips are available
- Butane not included (*Butane is not sold by Digi-Key*)

Description	Digi-Key Part No.	Price Each	Weller Part No.
Cordless Soldering Iron	C1C-ND	12.64	C1C
Chisel Tip, 3.175mm	C12-ND	1.92	C12
Conical Tip, 3.175mm	C13-ND	1.92	C13

60 Watts



Features: • Catalytic converter provides a powerful safe flameless combustion • Tank holds gas for 90 minutes of operation • Safety cut-off switch when the cap is replaced • Flint-spark ignitor in cap • Ideal for a wide variety of soldering and desoldering jobs • Adjustable temperature control regulates the power (equivalent of 10-60 watts) to quickly heat the tip • Optional accessories convert the P-1 into a soldering iron, blow torch, hot blower and hot knife • Butane not included (*Butane is not sold by Digi-Key*)

Fig. 1

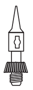


Fig. 2

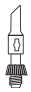


Fig. 3

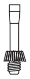


Fig. 4

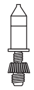


Fig. 5

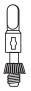
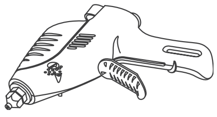


Fig.	Description	Digi-Key Part No.	Price Each	Weller Part No.
—	Cordless Soldering Iron	P1C-ND	31.12	P1C
1	Fine Point Soldering Tip	T1-ND	9.64	T1
2	Spade Tip	T2-ND	9.64	T2
	Spade Tip	T3-ND	9.64	T3
	Spade Tip	T4-ND	9.64	T4
3	Blow Torch Tip	T5-ND	9.64	T5
4	Hot Blower Tip	T6-ND	9.64	T6
5	Hot Knife Tip	T7-ND	9.64	T7

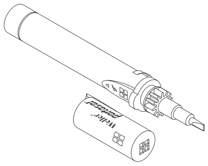
Cordless Hot Glue Gun



Features:
- Home, hobby and light industrial applications
- Self-igniting
- Uses standard butane lighter fuel
- Ignition indicator window
- Patented magnetic thermostat for temperature control
- Heat to working temperature in just 4 minutes
- Uses standard 1/2" glue sticks
- Fuel level window
- General use nozzle
- Glue sticks and Butane not included
  (*Glue sticks and Butane are not sold by Digi-Key*)

Digi-Key Part No.	Price Each	Weller Part No.
G150-ND	45.00	G150

75 Watts



Features:
- Gives the ultimate in portable power and convenience for all soldering jobs
- Provides 25 to 75 watts of power
- Adjustable temperatures up to 850°F
- Refueled with standard butane refills
- Unit lasts for up to an hour of continuous use
- Butane not included (*Butane is not sold by Digi-Key*)

Fig. 1

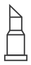


Fig. 2

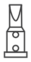


Fig. 3

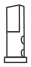


Fig. 4

Fig. 5

Fig. 6

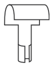


Fig. 7

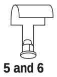
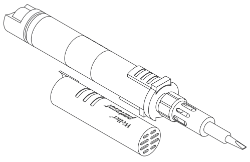


Fig. 5 and 6

Fig.	Description	Digi-Key Part No.	Price Each	Weller Part No.
—	Cordless Soldering Iron with PPT6 Tip, 2.4mm	P2C-ND	31.12	P2C
1	Single Flat, Solder Tip, 1.0mm	PPT1-ND	7.65	PPT1
	Single Flat, Solder Tip, 2.4mm	PPT2-ND	7.65	PPT2
	Single Flat, Solder Tip, 3.2mm	PPT3-ND	7.65	PPT3
	Single Flat, Solder Tip, 4.8mm	PPT4-ND	7.65	PPT4
2	Double Flat, Solder Tip, 1.0mm	PPT5-ND	7.65	PPT5
	Double Flat, Solder Tip, 2.4mm	PPT6-ND	7.65	PPT6
	Double Flat, Solder Tip, 3.2mm	PPT7-ND	7.65	PPT7
	Double Flat, Solder Tip, 4.8mm	PPT8-ND	7.65	PPT8
3	Hot Knife Tip	PPT10-ND	7.65	PPT10
4	Flame Tip	PPT12-ND	7.65	PPT12
5	Hot Air Tip	PPT9-ND	7.65	PPT9
6	Hot Air Deflector	PPT11-ND	5.36	PPT11
7	Hot Air Tip with Deflector	PPT13-ND	12.24	PPT13

125 Watts



Features:

• Self-igniting portable butane heat tool • Anti-static soldering • "Auto Switch" safety shut-off iron plated tips, and built-in butane filter • Rugged stainless-steel body provides up to 125 watts of power • Adjustable temperature up to 1,076°F • Fuel level is clearly visible through a window on the body of the tool • Butane not included (*Butane is not sold by Digi-Key*)

Fig. 1

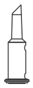


Fig. 2

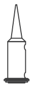


Fig. 3

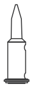


Fig. 4

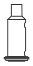


Fig. 5

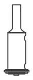
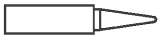


Fig.	Description	Digi-Key Part No.	Price Each	Weller Part No.
—	Cordless Soldering Iron	PSI100C-ND	49.99	PSI100C
1	Single Flat, Solder Tip, 1.0mm	PSI1-ND	9.78	PSI1
	Single Flat, Solder Tip, 2.4mm	PSI2-ND	9.78	PSI2
	Single Flat, Solder Tip, 3.2mm	PSI3-ND	9.78	PSI3
	Single Flat, Solder Tip, 4.8mm	PSI4-ND	9.78	PSI4
2	Single Chisel, Solder Tip, 1.0mm	PSI5-ND	9.78	PSI5
3	Double Flat, Solder Tip, 2.4mm	PSI6-ND	9.78	PSI6
	Double Flat, Solder Tip, 3.2mm	PSI7-ND	9.78	PSI7
	Double Flat, Solder Tip, 4.8mm	PSI8-ND	9.78	PSI8
4	Hot Blower Tip	PSI9-ND	9.78	PSI9
5	Hot Knife Tip	PSI10-ND	9.78	PSI10

OK Industries
Division of Jonard Industries Corp.

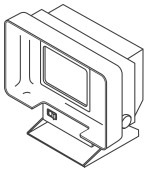
Replacement Parts for Irons



Tip Dim. In. (mm)	Description	Digi-Key Part No.	Price Each	OK Int'l. aPart No.
Micro Iron Replacement Tips				
.047 (1.19)	Double Flat	K303-ND	9.00	S4-305L
.047 (1.19)	Chisel	K305-ND	9.50	S4-105S
.047 (1.19)	Double Flat	K341-ND	9.00	S4-305S
.015 (.38)	Conical	K342-ND	9.00	S4-201L
.020 (.51)	Angled	K343-ND	9.00	S4-202B
.047 (1.19)	Dbl. Flat Long Life	K450-ND	15.00	S4-305SX
Macro Iron Replacement Tips				
.039 (.99)	Conical	K307-ND	11.73	S9-204L
.047 (1.19)	Double Flat	K344-ND	11.73	S9-305S
.015 (.38)	Conical	K345-ND	11.73	S9-201L
.047 (1.19)	Dbl. Flat Long Life	K449-ND	26.09	S9-305SX

Description	Digi-Key Part No.	Price Each	OK Int'l Part No.
Iron - Replacement Parts			
Repl. Heat Assembly for K295-ND	K420-ND	40.14	15589
Repl. Collar, Nut and Sleeve for K295-ND	K421-ND	13.84	15920
Repl. Heat Assembly for K296-ND	K422-ND	52.00	16226
Repl. Collar, Nut and Sleeve for K296-ND	K423-ND	44.18	16492

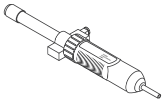
Benchtop Fume Absorber



Aerodynamic hood design effectively draws solder fumes away from the work area. Carbon filters traps up to 80% of the flux fumes. Compact size and adjustable for convenient placement near work area. Optional articulating arm with bench mount clamp converts benchtop fume absorber to suspended fume absorber for positioning directly over the work area. An inexpensive alternative to individual fume extraction.

Description	Digi-Key Part No.	Price Each
Benchtop Fume Absorber 115V w/3 Filters	K416-ND	118.69
Benchtop ESD Safe Fume Absorber 115V w/3 Filters	K417-ND	152.60
Articulating Arm Assembly Kit w/Bench Clamp	K418-ND	186.51
Replacement Carbon Filter Set, 3 Pcs.	K419-ND	21.26

High Vacuum Desolder Pumps

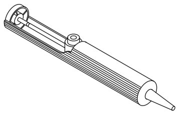


Features durable corrosion resistant plastic construction and corrosion treated springs with uniform reset pressure and cushioned shock reduction. Fitted with replaceable teflon tips.

Description	Digi-Key Part No.	Price Each
High-Vac Desoldering Pump with Tip	K412-ND	22.60
Repl. Teflon Tip for K412-ND	K413-ND	3.38
ESD Safe Desoldering Pump with Tip	K414-ND	28.26
Repl. ESD Safe Teflon Tip for K414-ND	K415-ND	5.64

Paladin Tools®

Desoldering Pump



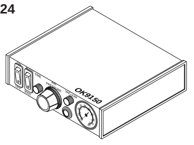
Desoldering tool removes solder with simple push-button operation. A conductive tool for anti-static operation. Replaceable tips available.

PAL1700-ND	Desoldering Pump	**$16.99**
PAL2712-ND	Replacement Tip	**$5.43**

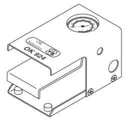
TECHCON SYSTEMS INC.
Division of OK International

Fluid Dispensing Systems

K424



K425



OK International fluid dispensing equipment is well suited for all types of liquids and fluids, from water thin solvents to thick pastes to sticky syrups. Both dispensers require external air source.

K424-ND Analog dispenser has a vacuum control of all viscosities of fluids. The solid state timer provides accurate and repeatable dispensing cycles. This unit offers an adjustable vacuum feature for controlling drip of fluid or paste between dispense cycles. Three dispense time ranges are included to offer controlled time shots from .01 to 30 seconds with one-touch or interruptible actuation. **Features:** • Solid state digital integrated circuitry timer • 0.18 CV factor constant flow solenoid • Lighted function switches • Adjustable vacuum up to 15 inches Hg • Micro action foot switch

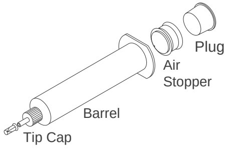
K425-ND foot valve dispenser is the ideal dispensing unit for most general applications of adhesives, sealants and compounds. **Features:** • Rugged and easy to use • Built-in pressure regulator • Connects to any OK syringe adapter • Fluid will flow as long as foot pedal is depressed

K426-ND dispense kit consists of 3 syringe assemblies complete with barrels; air stoppers, tip caps and barrel adapters. The kit also includes 50 tips (assorted sizes) and an in-line filter, shop air filter and syringe stand.

K424-ND	Analog Precision Fluid Dispenser 1-100PSI Solid State Timer 115 VAC	**$589.00**
K425-ND	Foot Valve Fluid Dispenser 20-100PSI with built-in pressure regulator	**$215.00**
K426-ND	Dispenser Kit for K424-ND & K425-ND (65 pieces total)	**$125.00**

Air Powered Syringe Assemblies

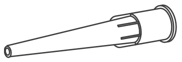
Available in 3 popular sizes (6cc, 10cc, and 35cc). Air powered assemblies include syringe barrel and tip caps, air stoppers and end plugs for safety when transporting filled syringes.



K427-ND	5cc-6cc (pkg. of 20 assemblies)	**$8.57**
K428-ND	10cc-12cc (pkg. of 15 assemblies)	**$7.90**
K429-ND	30cc-35cc (pkg. of 10 assemblies)	**$8.03**

Dispensing Tips

These tips are molded in high density polyethylene with color coding indicating tip inside diameter.



K435-ND	.063" (1.60mm) ID Tan Color (pkg. of 50)	**$18.00**
K436-ND	.047" (1.19mm) ID Grey Color (pkg. of 50)	**$18.00**
K437-ND	.033" (.84mm) ID Green Color (pkg. of 50)	**$18.00**
K438-ND	.024" (.61mm) ID Pink Color (pkg. of 50)	**$18.00**
K439-ND	.016" (.41mm) ID Blue Color (pkg. of 50)	**$18.00**

EasyBraid Co.

Low Cost Fixed-Temp Soldering Irons and Holders

Compact, lightweight fixed-temperature solder irons designed for the occasional user and hobbyist. Super quick heat up with replaceable tip and stainless steel heating core.

Fig. 1

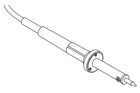
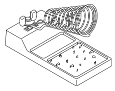


Fig. 2



Description	Digi-Key Part No.	Price Each	Easy Braid Part No.
Fixed Temp Iron, Fig. 1			
Deluxe, 30W, 115VAC, Insul. Handle	EB1068-ND	23.95	DJY-10730S
Micro, 30W, 115VAC	EB1069-ND	11.81	DJY-10330
High Power, 40W, 115VAC	EB1070-ND	13.48	DJY-10340
High Power Macro, 60W, 115VAC	EB1139-ND	16.77	DJY-10360
Solder Iron Holder, Fig. 2			
Small, with Sponge	EB1071-ND	15.52	DST58
Large, with Sponge	EB1072-ND	28.87	DST68
Replacement Tip (1 pc.)			
Conical for EB1068-ND (30W)	EB1073-ND	4.85	SIT-R30W
Conical for EB1069-ND (30W)	EB1074-ND	3.09	SIT-B30W
Conical for EB1070-ND (40W)	EB1075-ND	3.09	SIT-B40W

3M

Scotch™ No. 1285 Plating Tapes

3M's family of Scotch™ brand Plating Tapes is the answer to your PWB industry needs. Scotch™ brand Plating Tapes each have a specially designed adhesive formulation for specific plating tape requirements • All plating tapes have a 1 mil polyester backing that resists plating and etching solutions to help you reduce your board reject rate Scotch™ brand 1285 are silicone-free plating tapes designed to eliminate the clean-up associated with silicone adhesive residue. 1285 is recommended for all types of PWBs • Color: Blue • Adhesive Type: Rubber • Adhesive Thickness: 3 mils (.08mm) • Adhesive Strength: 25 oz./in. width (27N/100mm)

3M12851-ND	Plating Tape, 1.0" (25.40mm) wide	**$27.85**

Scotch™ No. 854 Polyester Tape

An opaque, cream-colored polyester tape with excellent chemical resistance in precious metal plating, especially gold **General Information:** • Polyester film backing imparts excellent chemical and thermal stability • Remains flexible at -60°F (-50°C) and retains dimensional stability up to 300°F (149°C) • **Construction:** • Backing: Polyester • Adhesive: Rubber • Color: Cream • Standard Roll Length: 72 yds. (66m) • Elongation at Break: 123% • Backing Thickness: 1 mil (.02mm) • Total Tape Thickness: 2.7 mils (.065mm) • Water Vapor Transmission Rate: 1.6 gms H_20/100sq. in./24 hrs. (24.8 g/m^2/24hrs) • Resists many solvents found in photographic, electroplating and chemical milling processes. Hot caustics will weaken the backing after prolonged immersion **Application Ideas:** • Excellent chemical resistance in precious metal plating, especially gold • Excellent results in sodium hydroxide etching of aluminum • Chemical milling • General splicing

3M85402-ND	Polyester Tape, 2" (50.8mm) wide	**$30.22**
3M85401-ND	Polyester Tape, 1" (25.4mm) wide	**$15.11**

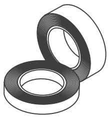
Scotch™ No. 5414 Water Soluble Tape

Get reliable protection for your circuit boards during wave soldering with this water soluble tape • Saves time and clean-up costs by completely dissolving during in-line, aqueous cleaning operations • Biodegradable, non-toxic tape has a neutral pH and leaves no residue • Eliminates static and labor usually associated with tape removal • Packaged in a moisture impervious bag which ensures long term storage stability under extreme humidity **Construction:** • Backing: PVA film • Adhesive: Water soluble synthetic adhesive • Liner: Kraft paper • Color: Hazy, transparent • Standard Roll Length: 36 yds. (33m) • Tensile Strength: 6.2 lbs./in. width (115.6 N/100mm) • Total Thickness: 2.5 mils (.06mm) • Dissolution Time: 40 seconds at 140° with agitation

3M541434-ND	0.75" (19.05mm) wide	**$19.62**
3M541412-ND	0.5" (12.70mm) wide	**$21.78**

Scotch™ No. 5413 Polyimide Film Tape

Increase your productivity with this superior performing Kapton™ polyimide film tape • Chemical and radiation resistant polyimide film is dimensionally stable at high temperatures, and flame retardant • Strong, heat resistant silicone adhesive resists adhesive transfer at elevated temperatures, providing higher productivity • Rated for continuous use at 500°F and intermittent use at 700°F, Scotch™ brand No. 5413 provides an excellent mask for high temperature powder coating • Color: Amber • Roll Length: 36 yds. (33m) • Total Tape Thickness: 2.7 mils (.07mm) • Temperature Use Range: -100°F to 500°F (-73°C to 270°C)



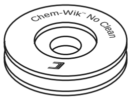
3M541334-ND	0.75" (19.05mm) wide	**$34.38**
3M541312-ND	0.5" (12.70mm) wide	**$22.92**

Scotch™ No. 5419 Low Static Polyimide Film Tape

A translucent, polyimide film-backed silicone adhesive tape with unique and extremely low electrostatic discharge properties. For gold tab protection during wave soldering of printed circuit boards. **General Information:** • 5419 tape employs a proprietary technology that results in extremely low electrostatic discharge at unwind and removal from the PWB • Polyimide film does not soften at elevated temperatures, thus, the film provides an excellent release surface at elevated temperatures. **Construction:** • Backing: Polyimide • Adhesive: Silicone • Color: Gold • Standard Roll Length: 36 yds. (33m) • Tensile Strength: 33 lbs./in. width (578N/100mm) • Total Tape Thickness: 2.7 mils (.07mm) • Temperature Use Range: -100°F to +500°F (-73°C to +260°C) • Insulation Resistance: >1*10^6 ohms **Applications:** Mask for printed circuit boards during wave solder or solder dip process; used as release surface in fabrication of parts cured at elevated temperatures

3M591934-ND	0.75" (19.05mm) wide	**$33.58**
3M591912-ND	0.5" (12.70mm) wide	**$22.39**

Chemtronics® Desoldering Braid



Pure copper braid construction coated with high purity rosin, quickly and thoroughly removes solder. Use Chem-Wik or Soder-Wick to remove components, SMDs, ICs, blobs and clean up poor solder connections. **Meets or Exceeds these Requirements:** • Mil-F-14256F Type R • NASA NHB 5300.4(3A) Reliability and Quality Assurance publication • NASA SP-5002 Soldering Electrical Connections • NASA NPC200-4 Quality publication • DOD Standard 1686B and DOD Handbook 263 • Mil-B-81705C Static Decay Rate Provision • Mil-Std-2000A

Width Inch (mm)	Length Feet (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
Chem-Wik® Desoldering Braid							
.030 (.76)	5 (1.52)	White	CW2-5-ND	2.46	2.22	1.79	2-5L
.030 (.76)	25 (7.62)	White	CW2-25-ND	10.76	9.69	7.81	2-25L
.050 (1.27)	25 (7.62)	Yellow	CW5-25-ND	10.76	9.69	7.81	5-25L
.075 (1.91)	25 (7.62)	Green	CW7-25-ND	11.20	10.08	8.12	7-25L
.100 (2.54)	25 (7.62)	Blue	CW10-25-ND	11.94	10.75	8.66	10-25L
.030 (.76)	100 (30.48)	Gray	2-100L-ND	43.08	38.78	31.24	2-100L
.050 (1.27)	100 (30.48)	Yellow	5-100L-ND	43.08	38.78	31.24	5-100L
.075 (1.91)	100 (30.48)	Green	7-100L-ND	44.70	40.23	32.41	7-100L
.100 (2.54)	100 (30.48)	Blue	10-100L-ND	47.92	43.13	34.75	10-100L
Soder-Wick® Desoldering Braid							
.030 (.76)	5 (1.52)	White	80-1-5-ND	2.80	2.52	2.03	80-1-5
.060 (1.52)	5 (1.52)	Yellow	80-2-5-ND	2.80	2.52	2.03	80-2-5
.080 (2.03)	5 (1.52)	Green	80-3-5-ND	3.02	2.72	2.19	80-3-5
.110 (2.79)	5 (1.52)	Blue	80-4-5-ND	3.24	2.92	2.35	80-4-5
.145 (3.68)	5 (1.52)	Brown	80-5-5-ND	3.58	3.23	2.60	80-5-5
.210 (5.33)	5 (1.52)	Red	80-6-5-ND	3.80	3.42	2.76	80-6-5
.030 (.76)	25 (7.62)	White	50-1-25-ND	12.32	11.09	8.94	50-1-25
.060 (1.52)	25 (7.62)	Yellow	50-2-25-ND	12.32	11.09	8.94	50-2-25
.080 (2.03)	25 (7.62)	Green	50-3-25-ND	12.64	11.38	9.17	50-3-25
.110 (2.79)	25 (7.62)	Blue	50-4-25-ND	14.00	12.60	10.15	50-4-25
.145 (3.68)	25 (7.62)	Brown	50-5-25-ND	15.66	14.10	11.36	50-5-25
.210 (5.33)	25 (7.62)	Red	50-6-25-ND	16.66	15.00	12.08	50-6-25
.060 (1.52)	100 (30.48)	Yellow	50-2-100-ND	47.80	43.02	34.66	50-2-100
.080 (2.03)	100 (30.48)	Green	50-3-100-ND	49.80	44.82	36.11	50-3-100
.110 (2.79)	100 (30.48)	Blue	50-4-100-ND	54.96	49.47	39.85	50-4-100
No-Clean Soder-Wick® Desoldering Braid							
.030 (.76)	5 (1.52)	White	60-1-5-ND	3.02	2.72	2.19	60-1-5
.060 (1.52)	5 (1.52)	Yellow	60-2-5-ND	3.02	2.72	2.19	60-2-5
.080 (2.03)	5 (1.52)	Green	60-3-5-ND	3.12	2.81	2.27	60-3-5
.110 (2.79)	5 (1.52)	Blue	60-4-5-ND	3.58	3.23	2.60	60-4-5
.145 (3.68)	5 (1.52)	Brown	60-5-5-ND	3.94	3.55	2.86	60-5-5
.210 (5.33)	5 (1.52)	Red	60-6-5-ND	4.26	3.84	3.09	60-6-5
.030 (.76)	10 (3.04)	White	60-1-10-ND	5.48	4.94	3.98	60-1-10
.060 (1.52)	10 (3.04)	Yellow	60-2-10-ND	5.48	4.94	3.98	60-2-10
.080 (2.03)	10 (3.04)	Green	60-3-10-ND	5.82	5.24	4.22	60-3-10
.110 (2.79)	10 (3.04)	Blue	60-4-10-ND	6.50	5.85	4.72	60-4-10
.145 (3.68)	10 (3.04)	Brown	60-5-10-ND	7.16	6.45	5.20	60-5-10

Ball Grid Array (BGA) Desoldering Braid

60-BGA-5-ND	Soder-Wick BGA, No-Clean, 5 Feet (1.52 Meter)	**$4.00**
80-BGA-5-ND	Soder-Wick BGA, Rosin, 5 Feet (1.52 Meter)	**$3.62**

Prototyping and Rework Dispensing Pens

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Conformal Coating Removal Pen for PCBs (.32 Oz.)	CW3500-ND	9.94	8.99	CW3500
Flux Remover Pen for No-Clean Fluxes (.32 Oz.)	CW9100-ND	7.72	6.98	CW9100
Flux Remover Pen for Rosin Based Fluxes (.32 Oz.)	CW9200-ND	7.39	6.68	CW9200
Conductive Trace Pen, Std. Tip for Repairing PCBs	CW2200STP-ND	15.79	14.27	CW2200STP
Conductive Trace Pen, Micro Tip for Repairing PCBs	CW2200MTP-ND	15.79	14.27	CW2200MTP
Conductive Trace Pen for Flexible Circuit Traces	CW2900-ND	20.20	18.26	CW2900
Overcoat Pen for Protecting Conductive Trace on PCB	CW3300G-ND	12.77	11.54	CW3300G
Conductive Silver Grease for Relays and Connectors	CW7100-ND	16.27	14.70	CW7100
Conductive Rubber Keypad Repair Kit	CW2605-ND	11.19	10.11	CW2605

Presaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Optic Prep High Quality Optical Cleaning and Polishing Pads (50 Pcs.)	CP410-ND	17.38	15.71	CP410
Chempad General Purpose, Lint-free, Nonabrasive Cleaning Pads (50 Pcs.)	CP400-ND	19.14	17.30	CP400
Screen-Prep Wet-and-Dry Wipes for Monitor Screens (25 Twin Packs)	CSP20-ND	20.52	18.54	CSP20
Gold Guard Pads for Cleaning Gold, Tin and Silver Contacts (50 Pcs.)	CP420E-ND	33.55	30.32	CP420E

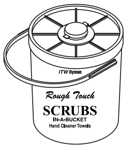
Clean Room Products

Unsaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Lightweight Polyester Wipes, 9” x 9” (150 Pcs.)	6209-ND	46.35	41.88	6209
Polyester/Cellulose Blend, Nonwoven Wipes, 4” x 4” (1200 Pcs.)	6704CH-ND	31.89	28.82	6704
Polyester/Cellulose Blend, Nonwoven Wipes, 9” x 9” (300 Pcs.)	6709CH-ND	25.41	22.97	6709
Sealed Edge Microfiber Chamois™ Wipes, 8” x 8” (50 Pcs.)	7348LE-ND	98.27	88.80	7348LE

Hand Cleaner Towels-In-a-Bucket

Whether you are in the shop, on the assembly line, or out in the field, these premoistened towels are ready to use for your hard working hands. The citrus based formula combined with an absorbent, non-scratching towel will loosen, dissolve, and absorb soils from your hands. Towels will not re-transfer soils back onto your skin, and will leave your hands conditioned and protected while you clean. Residue free.



Quickly Removes:
• Adhesives • Caulk • Dirt • Epoxy • Grease • Grime • Lubricants • Ink & Dye • Sealants • Tar • Urethane • Wax • Asphalt • Polyurethane • Paint • Oils

For More Than Just Hands:
• Tools • Plastics • Vinyl • Painted Surfaces • Metal • Work Surfaces • Equipment • Composites • Workbenches

42272-ND	72 Towels (10.5” x 12.25”)	**$14.92**

Swabs and Applicators

For general purpose cleaning of magnetic heads, video heads and optical pickups.

Fig. 1 **Chamois Tip, ABS Handle**

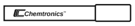


Fig. 2 **Cotton Tip, Wood Handle**

Fig. 3 **Cotton Tip, Double Ended**

Fig.	Qty. (Pcs.)	Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	50	3.25 (82.55)	CC50-ND	29.73	26.87	25.08	CC50
2	100	6.00 (152.40)	CT100-ND	2.94	2.66	2.48	CT100
3	100 1000	6.00 (152.40) 6.00 (152.40)	CT200-ND CT2000-ND	3.14 25.08	2.84 22.67	2.65 21.16	CT200 CT2000
—	25	—	CS25-ND	24.00	21.69	20.25	CS25

Chemtronics® Clean Room Products

Swabs and Applicators

Fig. 1

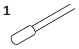


Fig. 2

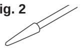


Fig. 3

Fig. 4

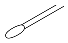


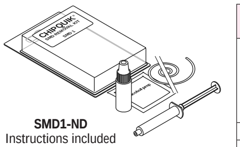
Fig.	Qty. (Pcs)	Length Inch (mm)	Shaft Description	Tip Description	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	500 500 500	2.80 (71.10) 2.80 (71.10) 2.80 (71.10)	.10” (2.54mm) Width ESD Shaft .10” (2.54mm) Width Polypropylene Shaft .10” (2.54mm) Width ESD Shaft	.12” (3.05mm) Diameter, Knit Polyester Tip .13” (3.30mm) Diameter, Foam Polyurethane Tip .13” (3.30mm) Diameter, Foam Polyurethane Tip	31040ESD-ND 41050-ND 41050ESD-ND	131.44 36.54 74.30	118.77 33.02 67.14	110.86 30.82 62.67	31040ESD 41050 41050ESD
2	500 500 50	3.20 (81.28) 3.20 (81.28) 6.70 (170.18)	.10” (2.54mm) Width Polypropylene Shaft .10” (2.54mm) Width ESD Shaft Polypropylene Shaft	.11” (2.79mm) Diameter, Foam Polyurethane Tip .11” (2.79mm) Diameter, Foam Polyurethane Tip Tapered Applicator Porous Polyvinylidene Fluoride Tip	44070-ND 44070ESD-ND CM502-ND	39.94 74.30 25.86	36.09 67.14 23.37	33.69 62.67 21.82	44070 44070ESD CM502
3	500	6.00 (152.40)	.09” (2.29mm) Width Wood Shaft	.47” (11.94mm) Diameter, Polyurethane Foam over Cotton Tip	23110-ND	103.85	93.84	87.59	23110
4	25	6.30 (160.02)	.12” (3.05mm) Width Glass Filled Nylon Shaft	.26” (6.60mm) Diameter, Knit Polyester Tip	52121-ND	11.57	10.46	9.76	52121

CHIP QUIK® SMD Removal Kits

CHIP QUIK SMD rework products are designed as a low cost way to rework SMD components including QFP and PLCC packages, with very low temp. (300°F). It virtually eliminates damaged pads and circuitry or lost boards due to heat damage. SMD1 contains everything needed for removing SMD components with either convection (hot air) or conduction (solder iron). Use SMD16, SMD32, and SMD291 for larger jobs which require more CHIP QUIK material and flux. SMD2000 kit is a complete Solder/Desolder rework kit for safely removing SMD components, cleaning the pads, placing component and reapplying solder safely with low operating temps. Approved by many top industry PC board manufacturers for reworking faulty components, without the need for specialized solder equipment.

CHIP QUIK removal alloy-no lead formula has been tested for rework on PC Boards that were manufactured with lead and no-lead solders with excellent results on both. It has also been successfully tested for SMD removal on all the major no-lead solders that are presently available in the industry.

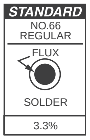
SMD2000 Contents (In durable plastic case): • CHIP QUIK Removal Alloy SMD 4.5 with instructions • Solder Paste: No clean 63/37 rework solder paste with flux in 1cc syringe with nozzle and cap (trial size) • Solder: 3 feet 63/27 2% silver .031 in. • Chip Quik Paste Flux: No clean flux in 1cc syringe with nozzle and cap used for solder/desolder • Liquid Flux Remover/Cleaner: 5cc container with applicator (non-flammable) • Probe Kit: 4 stainless steel dental picks for SMD removal and placement • Solder Wick: No clean, 5 feet • Handi Vac: SMD pick and place tool with tips • Acid Brush: Qty. 2 • Precision Tweezers: For SMD removal and placement • Cleaning Wipes: Tight weave / low lint 4" x 4", Qty. 6 (for cleaning PC board) • Swabs: Double ended, Qty. 10 (for cleaning PC board) • Alcohol Pads: Qty. 6 (for cleaning PC board) • CHIP QUIK SMD removal and clean up instructions.

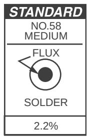


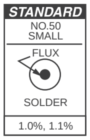
SMD1-ND
Instructions included with all kits.

Description	Digi-Key Part No.	Price Each	CHIP QUIK Part No.
Industrial Pack Replacement Low Temp. Solder 16'	SMD16-ND	82.50	SMD16
Industrial Pack Low Temp. No Lead Solder 16'	SMD16NL-ND *NEW!*	97.50	SMD16NL
Industrial Pack Replacement Low Temp. Solder 32'	SMD32-ND	150.00	SMD32
Industrial Pack Low Temp. No Lead Solder 32'	SMD32NL-ND *NEW!*	172.50	SMD32NL
No Clean Paste Flux for Rework, 10cc Syringe	SMD291-ND	14.63	SMD291
SMD Removal Kits			
For 8-10 SMDs	SMD1-ND	15.00	SMD1
Complete Rework Kit, Contents Listed	SMD2000-ND	105.00	SMD2000

Flux-Core Solders

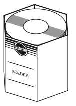






Alloy	Melting Range (°F)	Recommended Use
Tin-Lead		
Sn63Pb37	361	Most common, tin-lead eutectic used in PCB assembly applications
Sn60Pb40	361-374	Used in single-sided board soldering and solder dipping operations
Lead-Free		
SAF-A-LLOY	426-454	Special alloy developed for general use where lead free solder is mandated
Other Alloys		
Sn62Pb36Ag02	354-372	Used on silver coated ceramics and PbAg substrates, prevents silver leeching
Sn43Pb43Bi14	291-325	Used in low temperature electronic assembly applications

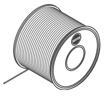
"44" RA Solders



Kester "44" has virtually dominated the field of activated rosin core solders for well over four decades. An outstanding performance feature of this flux is the "instant wetting" action. The high mobility and fast spreading action of this flux results in more reliable production line soldering. Available in 1 Lb. and 1/2 Lb. spools. Gold Label.

Description	Digi-Key Part No.	Price Each 1	5	10
RA Solder "44", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1100-ND	11.43	10.29	9.14
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1108-ND	11.43	10.29	9.14
19 Gauge Solder, 3.3% Flux, .040" (1.02mm) dia.	KE1101-ND	12.10	10.89	9.68
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1102-ND	12.63	11.37	10.10
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1109-ND	18.50	16.65	14.80
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1103-ND	17.65	15.89	14.12
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1110-ND	31.75	28.58	25.40
RA Solder "44", 63/37, 1/2 Lb. (.23 kg) Spool				
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1111-ND	9.75	8.78	7.80
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1112-ND	10.63	9.57	8.50
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1113-ND	18.05	16.25	14.44
RA Solder "44", 60/40, 1 Lb. (.45 kg) Spool				
13 Gauge Solder, 3.3% Flux, .093" (2.36mm) dia.	KE1114-ND	13.38	12.04	10.70
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1104-ND	11.43	10.29	9.14
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1115-ND	14.25	12.83	11.40
19 Gauge Solder, 3.3% Flux, .040" (1.02mm) dia.	KE1105-ND	12.10	10.89	9.68
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1106-ND	12.63	11.37	10.10
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1116-ND	18.25	16.43	14.60
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1107-ND	17.65	15.89	14.12
RA Solder "44", 60/40, 1/2 Lb. (.23 kg) Spool				
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1117-ND	8.88	7.99	7.10
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1118-ND	9.38	8.44	7.50

NEW! "405" No-Clean Cored Solder Rosin-Free Flux

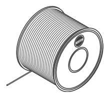


Kester "405" Rosin-Free low residue flux for cored solder wire was developed to completely eliminate R-42 sensitizers commonly found in rosin-based fluxes. The "405" flux has performance characteristics far exceeding standard No-Clean fluxes without any of the sensitizer issues. The Kester "405" is classified as type RELO per IPC ANSI/J-STD-004. 1.0% flux per weight of solder wire.

Performance Characteristics: • Nearly colorless translucent residues • Improves wetting performance • Excellent solderability and fast wetting to a variety of surface finishes • Eliminates the need and expense of cleaning • Low smoke • Low odor

Description	Digi-Key Part No.	Price Each 1	5	10
No Clean Solder "405", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 1.0% Flux, .062" (1.57mm) dia.	KE1517-ND	15.30	13.77	12.24
18 Gauge Solder, 1.0% Flux, .050" (1.27mm) dia.	KE1518-ND	15.98	14.38	12.78
19 Gauge Solder, 1.0% Flux, .040" (1.02mm) dia.	KE1519-ND	16.30	14.67	13.04
21 Gauge Solder, 1.0% Flux, .031" (.79mm) dia.	KE1520-ND	16.98	15.28	13.58
23 Gauge Solder, 1.0% Flux, .025" (.63mm) dia.	KE1521-ND	19.68	17.71	15.74
25 Gauge Solder, 1.0% Flux, .020" (.51mm) dia.	KE1522-ND	24.08	21.67	19.26
28 Gauge Solder, 1.0% Flux, .015" (.38mm) dia	KE1523-ND	34.88	31.39	27.90
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1524-ND	16.98	15.28	13.58
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1525-ND	24.08	21.67	19.26

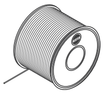
"245" No-Clean Solders



Kester "245" Low Residue Solder was developed to complement the newer generations of Low Residue Fluxes being used in the electronics industry. The use of "245" Low Residue Flux results in visually acceptable assemblies without the need for cleaning. Soldering quality and efficiency is comparable to that of a RMA flux. 1.1% flux standard, 2.2% and 3.3% for faster wetting action. Cream label.

Description	Digi-Key Part No.	Price Each 1	5	10
No Clean Solder "245", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 1.1% Flux, .062" (1.57mm) dia.	KE1399-ND	12.38	11.14	9.90
18 Gauge Solder, 1.1% Flux, .050" (1.27mm) dia.	KE1402-ND	14.50	13.05	11.60
19 Gauge Solder, 1.1% Flux, .040" (1.02mm) dia.	KE1403-ND	15.50	13.95	12.40
21 Gauge Solder, 1.1% Flux, .031" (.79mm) dia.	KE1400-ND	12.62	11.36	10.10
23 Gauge Solder, 1.1% Flux, .025" (.63mm) dia.	KE1404-ND	18.50	16.65	14.80
25 Gauge Solder, 1.1% Flux, .020" (.51mm) dia.	KE1401-ND	17.66	15.90	14.13
28 Gauge Solder, 1.1% Flux, .015" (.38mm) dia.	KE1405-ND	31.75	28.58	25.40
No-Clean Solder "245", 63/37 1/2 Lb. (.23 kg) Spool				
25 Gauge Solder, 1.1% Flux, .020" (.51mm) dia.	KE1406-ND	16.38	14.74	13.10
28 Gauge Solder, 1.1% Flux, .015" (.38mm) dia.	KE1407-ND	18.08	16.27	14.46
No-Clean Solder "245", 63/37 1 Lb. (.45 kg) Spool				
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1408-ND	16.75	15.08	13.40
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1409-ND	24.75	22.28	19.80
No-Clean Solder "245", 63/37 1 Lb. (.45 kg) Spool				
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1410-ND	16.75	15.08	13.40

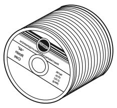
"285" RMA Solders



Kester "285" has been developed for the use in the electronics industry where difficult assemblies are to be soldered, but process requirements stipulate use of a mildly activated rosin flux. Kester "285" mildly activated rosin flux is classified as Type ROL1 flux under IPC ANSI/J-STD-004 Standards. Green Label.

Description	Digi-Key Part No.	Price Each 1	5	10
RMA Solder "285", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 2.2% Flux, .062" (1.57mm) dia.	KE1199-ND	12.38	11.14	9.90
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1200-ND	12.62	11.36	10.10
23 Gauge Solder, 2.2% Flux, .025" (.63mm) dia.	KE1202-ND	18.50	16.65	14.80
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1201-ND	17.66	15.90	14.13
28 Gauge Solder, 2.2% Flux, .015" (.38mm) dia.	KE1203-ND	31.75	28.58	25.40

"331" Organic Water Soluble Flux



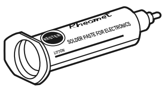
Kester "331" Organic Flux is a water soluble formula for use in flux-cored solder wire. Kester "331" flux is more effective than rosin fluxes in soldering difficult metals and allows a simple water wash for flux cleanup. The flux is more heat stable than most organic fluxes, resulting in minimal smoke and odor. The residue can be completely removed with a simple water rinse. Kester "331" is classified as type ORH1 per IPC ANSI/J-STD-004. Red Label.

Description	Digi-Key Part No.	Price Each 1	5	10
Water Soluble Solder "331", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1299-ND	12.38	11.14	9.90
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1300-ND	12.62	11.36	10.10
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1302-ND	18.50	16.65	14.80
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1301-ND	17.66	15.90	14.13
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1303-ND	31.75	28.58	25.40
Water Soluble Solder "331", 60/40, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1304-ND	13.88	12.49	11.10
21 Gauge Solder, 3.3% Flux, .031 (.79mm) dia.	KE1305-ND	14.38	12.94	11.50

Specialty Solders and Accessories

Description	Digi-Key Part No.	Price Each 1	5	10
Solid Wire Solder (No Flux), 1 Lb. (.45 kg) Spool				
16 Gauge Solder 63/37, .062" (1.57mm) dia.	KE1603-ND	12.38	11.14	9.90
21 Gauge Solder 63/37, .031" (.79mm) dia.	KE1606-ND	12.63	11.37	10.10
21 Gauge Solder 60/40, .031" (.79mm) dia.	KE1604-ND	12.63	11.37	10.10
25 Gauge Solder 60/40, .020" (.51mm) dia.	KE1605-ND	17.65	15.89	14.12
Specialty Solders, 1 Lb. (.45 kg) Spool				
18 AWG Silver Solder, 62/36/2, RA Flux .050" (1.27mm) dia.	KE1119-ND	31.33	28.20	25.06
21 AWG Silver Solder, 62/36/2, RA Flux .031" (.79mm) dia	KE1350-ND	17.25	15.53	13.80
23 AWG Silver Solder, 62/36/2, RA Flux .025" (.63mm) dia.	KE1120-ND	33.50	30.15	26.80
21 AWG Low Temp Solder, 43/43/14, No-Clean	KE1353-ND	19.63	17.67	15.70
Specialty Solders, Lead-Free SAF-A-LLOY Solders, 1 Lb. (.45 kg) Spool				
21 AWG Lead-Free Solder, 97/.2/.8/2, RA Flux	KE1351-ND	19.88	17.89	15.90
21 AWG Lead Free Solder, 97/.2/.8/2, No-Clean	KE1352-ND	19.88	17.89	15.90
Bar Solder				
Oxide Free Solder (E-Bar), 63/37, 1 Lb. (.45 kg).	KE1600-ND	7.44	6.70	5.95
Oxide Free Solder (E-Bar), 60/40, 1 Lb. (.45 kg)	KE1601-ND	7.45	6.71	5.96
Premium Oxide Free Solder (Ultrapure), 63/37, 1.6 Lbs. (.73 kg)	KE1602-ND	13.67	12.30	10.94
Boxed Solder				
Pocket Pak Solder, No-Clean 21 Gauge 60/40	KE1801-ND	1.70	1.53	1.36
Elec. Silver Solder, RA Flux, 24 Gauge .35oz. (9.92g) Tube	KE1802-ND	.67	.61	.54

Solder Paste



Kester solder paste was developed for applications of surface mount PCBs and components. All pastes are SN63/PB37 with a mesh size of -325 to +500 (25 to 40 microns) and come in 35gm syringes for hand dispensing. R276 No-Clean formulation provides optimal performance in all types of dispensing applications. Designed for reflow practices that don't require cleaning of the PCB. R500 Water Soluble solder paste is aggressive enough to remove tenacious oxide layers and offers excellent wetting characteristics. **Pastes should be refrigerated to preserve their usable life.**

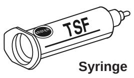
Note: To ensure customer satisfaction and product integrity, pastes must be shipped overnight or 2nd Day Air only. Tips are not included.

Description	Digi-Key Part No.	Price Each 1	5	10
Plunger for 35gm Syringe	KE1505-ND	1.10	.99	.88
No-Clean Paste, 35gm Syringe (R276)	KE1507-ND	42.00	37.80	33.60
Water Soluble Paste, 35gm Syringe (R500)	KE1512-ND	42.00	37.80	33.60

Paste Flux and Liquid Flux Pens

Flux - Pen

Rosin Paste



Syringe

Kester flux pens use a spring-loaded tip to dispense just the right amount of flux while preventing the flux inside from drying out. Tacky Solder Flux is a No-Clean paste flux that maintains its characteristics for up to 8 hours after dispensing and can be used in a wide range of temperature and humidity conditions. Can reflow in both air and nitrogen environments. SP244 is a mildly activated rosin paste flux designed to be used as a No-Clean formula for rework applications.

Description	Digi-Key Part No.	Price Each 1	5	10
SP44 Activated Rosin Paste Flux, 2 oz (56.70g) Can	KE1700-ND	1.28	1.15	1.02
SP44 Activated Rosin Paste Flux, 1 Lb. (.45 kg) Can	KE1701-ND	6.72	6.05	5.38
Flux Pen - Formula 186 RMA	KE1803-ND	3.70	3.33	2.96
Flux Pen - Formula 951 No-Clean	KE1804-ND	3.69	3.32	2.95
Flux Pen 2331-ZX Water-Soluble	KE1808-ND	3.70	3.33	2.96
Tacky Solder Flux No-Clean, 10gm Syringe	KE1806-ND	18.50	16.65	14.80
Tacky Solder Flux No-Clean, 30gm Syringe	KE1807-ND	55.50	49.95	44.40

EasyBraid Co. Desoldering Braid

25% cleaner than most major brands (leaving less residue on the desoldered connection). Meets the requirements of Mil-F-14256F Type R, Mil STD. 2000 and in compliance with DOD Standard 1686A. Also meets the requirements of Bellcore spec. TR-T5Y-000078 and Ipc Test Method III. Easy Braid numbers ending in AS are antistatic bobbins.

Width Inch (mm)	Length Ft. (Meter)	Label Color	Digi-Key Part No.	Price Each 1	Price Each 25	Easy Braid Part No.
Quick Braid						
.025 (.64)	5 (1.52)	Silver	EB1020-ND	1.96	1.68	Q-A-5
.050 (1.27)	5 (1.52)	Gold	EB1022-ND	1.96	1.68	Q-B-5
.075 (1.91)	5 (1.52)	Green	EB1024-ND	2.03	1.73	Q-C-5
.100 (2.54)	5 (1.52)	Blue	EB1026-ND	2.25	1.92	Q-D-5
.125 (3.18)	5 (1.52)	Brown	EB1028-ND	2.39	2.04	Q-E-5
.025 (.64)	5 (1.52)	Silver	EB1084-ND	2.17	1.85	Q-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1087-ND	2.17	1.85	Q-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1090-ND	2.21	1.89	Q-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1093-ND	2.41	2.06	Q-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1096-ND	2.61	2.23	Q-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1085-ND	3.37	2.87	Q-A-10
.050 (1.27)	10 (3.04)	Gold	EB1088-ND	3.37	2.87	Q-B-10
.075 (1.91)	10 (3.04)	Green	EB1091-ND	3.46	2.95	Q-C-10
.100 (2.54)	10 (3.04)	Blue	EB1094-ND	3.82	3.25	Q-D-10
.125 (3.18)	10 (3.04)	Brown	EB1097-ND	4.06	3.46	Q-E-10
.025 (.64)	25 (7.62)	Silver	EB1021-ND	8.75	7.45	Q-A-25
.050 (1.27)	25 (7.62)	Gold	EB1023-ND	8.75	7.45	Q-B-25
.075 (1.91)	25 (7.62)	Green	EB1025-ND	9.00	7.66	Q-C-25
.100 (2.54)	25 (7.62)	Blue	EB1027-ND	10.65	9.07	Q-D-25
.125 (3.18)	25 (7.62)	Brown	EB1029-ND	10.87	9.26	Q-E-25
.025 (.64)	100 (30.48)	Silver	EB1086-ND	31.14	26.51	Q-A-100
.050 (1.27)	100 (30.48)	Gold	EB1089-ND	31.14	26.51	Q-B-100
.075 (1.91)	100 (30.48)	Green	EB1092-ND	32.13	27.35	Q-C-100
.100 (2.54)	100 (30.48)	Blue	EB1095-ND	35.63	30.33	Q-D-100
.125 (3.18)	100 (30.48)	Brown	EB1098-ND	40.14	34.17	Q-E-100
One Step (RMA No-Clean)						
.025 (.64)	5 (1.52)	Silver	EB1050-ND	2.33	1.98	OS-A-5
.050 (1.27)	5 (1.52)	Gold	EB1052-ND	2.33	1.98	OS-B-5
.075 (1.91)	5 (1.52)	Green	EB1054-ND	2.40	2.04	OS-D-5
.100 (2.54)	5 (1.52)	Blue	EB1056-ND	2.77	2.36	OS-D-5
.125 (3.18)	5 (1.52)	Brown	EB1058-ND	3.20	2.72	OS-E-5
.025 (.64)	5 (1.52)	Silver	EB1099-ND	2.49	2.12	OS-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1102-ND	2.49	2.12	OS-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1105-ND	2.61	2.22	OS-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1108-ND	2.94	2.50	OS-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1111-ND	3.43	2.92	OS-E-5AS
.025 (.64)	25 (7.62)	Silver	EB1051-ND	10.62	9.04	OS-A-25
.050 (1.27)	25 (7.62)	Gold	EB1053-ND	10.62	9.04	OS-B-25
.075 (1.91)	25 (7.62)	Green	EB1055-ND	10.95	9.32	OS-C-25
.100 (2.54)	25 (7.62)	Blue	EB1057-ND	12.27	10.44	OS-D-25
.125 (7.62)	25 (7.62)	Brown	EB1059-ND	14.05	11.96	OS-E-25
.025 (.64)	10 (3.04)	Silver	EB1100-ND	3.83	3.26	OS-A-10
.050 (1.27)	10 (3.04)	Gold	EB1103-ND	3.83	3.26	OS-B-10
.075 (1.91)	10 (3.04)	Green	EB1106-ND	3.95	3.36	OS-C-10
.100 (2.54)	10 (3.04)	Blue	EB1109-ND	4.42	3.76	OS-D-10
.125 (3.18)	10 (3.04)	Brown	EB1112-ND	4.89	4.16	OS-E-10

Width Inch (mm)	Length Ft. (Meter)	Label Color	Digi-Key Part No.	Price Each 1	Price Each 25	Easy Braid Part No.
Step (RMA No-Clean)						
.025 (.64)	100 (30.48)	Silver	EB1101-ND	40.37	34.36	OS-A-100
.050 (1.27)	100 (30.48)	Gold	EB1104-ND	40.37	34.36	OS-B-100
.075 (1.91)	100 (30.48)	Green	EB1107-ND	41.67	35.46	OS-C-100
.100 (2.54)	100 (30.48)	Blue	EB1110-ND	46.60	39.66	OS-D-100
.125 (3.18)	100 (30.48)	Brown	EB1113-ND	53.72	45.72	OS-E-100
One Step 2 (Low Residue Synthetic Rosin No-Clean)						
.025 (.64)	5 (1.52)	Silver	EB1114-ND	3.15	2.68	OS2-A-5
.025 (.64)	5 (1.52)	Silver	EB1115-ND	3.39	2.89	OS2-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1119-ND	3.15	2.68	OS2-B-5
.050 (1.27)	5 (1.52)	Gold	EB1120-ND	3.39	2.89	OS2-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1124-ND	3.26	2.78	OS2-C-5
.075 (1.91)	5 (1.52)	Green	EB1125-ND	3.53	3.01	OS2-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1129-ND	3.75	3.20	OS2-D-5
.100 (2.54)	5 (1.52)	Blue	EB1130-ND	4.00	3.41	OS2-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1134-ND	4.33	3.69	OS2-E-5
.125 (3.18)	5 (1.52)	Brown	EB1135-ND	4.67	3.98	OS2-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1116-ND	5.20	4.43	OS2-A-10
.050 (1.27)	10 (3.04)	Gold	EB1121-ND	5.20	4.43	OS2-B-10
.075 (1.91)	10 (3.04)	Green	EB1126-ND	5.38	4.58	OS2-C-10
.100 (2.54)	10 (3.04)	Blue	EB1131-ND	6.01	5.12	OS2-D-10
.125 (3.18)	10 (3.04)	Brown	EB1136-ND	6.65	5.67	OS2-E-10
.025 (.64)	25 (7.62)	Silver	EB1117-ND	14.40	12.26	OS2-A-25
.050 (1.27)	25 (7.62)	Gold	EB1122-ND	14.40	12.26	OS2-B-25
.075 (1.91)	25 (7.62)	Green	EB1127-ND	14.87	12.66	OS2-C-25
.100 (2.54)	25 (7.62)	Blue	EB1132-ND	16.65	14.18	OS2-D-25
.125 (3.18)	25 (7.62)	Brown	EB1137-ND	19.07	16.23	OS2-E-25
.025 (.64)	100 (30.48)	Silver	EB1118-ND	54.79	46.63	OS2-A-100
.050 (1.27)	100 (30.48)	Gold	EB1123-ND	54.79	46.63	OS2-B-100
.075 (1.91)	100 (30.48)	Green	EB1128-ND	56.55	48.13	OS2-C-100
.100 (2.54)	100 (30.48)	Blue	EB1133-ND	63.25	53.83	OS2-D-100
.125 (3.18)	100 (30.48)	Brown	EB1138-ND	72.91	62.06	OS2-E-100
SEA BRAID (unfluxed)						
.025 (.64)	5 (1.52)	Silver	EB1170-ND	2.17	1.85	S-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1173-ND	2.17	1.85	S-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1176-ND	2.21	1.89	S-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1179-ND	2.41	2.06	S-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1182-ND	2.61	2.23	S-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1171-ND	3.37	2.87	S-A-10
.050 (1.27)	10 (3.04)	Gold	EB1174-ND	3.37	2.87	S-B-10
.075 (1.91)	10 (3.04)	Green	EB1177-ND	3.46	2.95	S-C-10
.100 (2.54)	10 (3.04)	Blue	EB1180-ND	3.82	3.25	S-D-10
.125 (3.18)	10 (3.04)	Brown	EB1183-ND	4.06	3.46	S-E-10
.025 (.64)	100 (30.48)	Silver	EB1172-ND	31.14	26.51	S-A-100
.050 (1.27)	100 (30.48)	Gold	EB1175-ND	31.14	26.51	S-B-100
.075 (1.91)	100 (30.48)	Green	EB1178-ND	32.13	27.35	S-C-100
.100 (2.54)	100 (30.48)	Blue	EB1181-ND	35.63	30.33	S-D-100
.125 (3.18)	100 (30.48)	Brown	EB1184-ND	40.14	34.17	S-E-100

63/37 Eutectic Solder

EasyBraid's No-Clean solder has excellent wetting action and is intended for applications where residue removal is not required or recommended. Available in .020" (.51mm) and .031" (.79mm) diameters and meets Bellcore Issue 3 TR-NWT-000078, IPC-SF-818 Type LR 3CN and IPC-SF-818 Type H3C specifications. Sea Step solder is water washable solder where flux residue becomes soluble in water. Available in regular bobbin or anti-static type bobbin.

Diameter Inch (mm)	Length Feet (Meter)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	EasyBraid Part No.
No-Clean Solder - 2.2% Flux						
.020 (.51)	25 (7.62)	EB1060-ND	1.96	1.68	1.51	OS-S020
.020 (.51)	25 (7.62) antistatic	EB1061-ND	2.23	1.90	1.71	OS-S020AS
.031 (.79)	20 (6.10)	EB1062-ND	1.96	1.68	1.51	OS-S031
.031 (.79)	20 (6.10) antistatic	EB1063-ND	2.23	1.90	1.71	OS-S031AS
Sea Step Solder - 2.2% Flux						
.020 (.51)	25 (7.62)	EB1064-ND	1.96	1.68	1.51	SS-S020
.020 (.51)	25 (7.62) antistatic	EB1065-ND	2.23	1.90	1.71	SS-S020AS
.031 (.79)	20 (6.10)	EB1066-ND	1.96	1.68	1.51	SS-S031
.031 (.79)	20 (6.10) antistatic	EB1067-ND	2.23	1.90	1.71	SS-S031AS

Solder Sponges

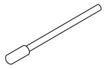
Digi-Key Part No.	Type	Size Inch (mm)
EB1001-ND	One Hole	1.2 x 2.7 (30.48 x 68.58)
EB1002-ND	One Hole	1.55 x 2.55 (39.37 x 64.77)
EB1003-ND	Slits	2 x 2.6 (50.80 x 66.04)
EB1004-ND	One Hole	2.2 x 3.5 (55.88 x 88.90)
EB1005-ND	Multiple Holes	2.6 x 2.6 (66.04 x 66.04)
EB1006-ND	One Hole	3.2 x 1.9 (81.28 x 48.26)
EB1007-ND	One Hole	3.4 x 4.4 (86.36 x 111.76)
EB1008-ND	One Hole	4 x 1.7 (101.60 x 43.18)
EB1009-ND	Plain Smooth Top	8.5 x 17 (215.90 x 431.80)
EB1010-ND	One Hole	2.4 x 3.2 (60.96 x 81.28)

Replacements	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
OK Ind. 45803S	EB1001-ND	.83	.71	.64
Ungar 9901	EB1002-ND	.86	.74	.67
Weller MP	EB1003-ND	.98	.84	.75
Weller DS-100; EC-1000; EC-2000	EB1004-ND	1.17	1.00	.90
Weller WTCP; EC-3000; EC-4000; TC205	EB1005-ND	1.17	1.00	.90
Metcal; Plato CS-46	EB1006-ND	1.05	.90	.81
Hexacon 810; 812; 890; 891; 892	EB1007-ND	1.99	1.70	1.53
Hakko 926; Plato CS-43	EB1008-ND	1.09	.93	.84
Sponge Sheet	EB1009-ND	18.83	16.03	14.43
EDSYN Models	EB1010-ND	1.17	1.00	.90

Swabs

Easybraid's swabs are designed for the electronics industry and are constructed for low contamination and lint levels. Plastic shaft models are made of high strength polypropylene while anti-static versions are made of static free polyolefin. Can be utilized with most electronic cleaning solvents.

Fig.	Package Amount	Shaft Description	Tip Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Easy Braid Part No.
1	10 Pieces 100 Pieces	2" Solid Shaft	Tip 3/16" Diameter x 19/32" Length Foam Tip	EB1140-ND EB1155-ND	4.75 33.91	4.04 28.86	3.64 25.98	SW2PF-10 SW2PF-100
2	10 Pieces 100 Pieces	3" Solid Shaft	Tip 3/16" Diameter x 11/16" Length Foam Tip	EB1141-ND EB1156-ND	2.77 19.79	2.36 16.84	2.13 15.16	SW3PF-10 SW3PF-100
3	10 Pieces 100 Pieces	3" Wood Shaft	Tip 3/16" Diameter x 11/16" Length Foam Tip	EB1142-ND EB1157-ND	2.77 19.79	2.36 16.84	2.13 15.16	SW3WF-10 SW3WF-100
4	10 Pieces 100 Pieces	5" Solid Shaft	9/16" Diameter x 15/16" Length Rectangular Foam Tip	EB1143-ND EB1158-ND	5.38 38.52	4.58 32.78	4.13 29.51	SW5PF-10 SW5PF-100
5	10 Pieces 100 Pieces	5" Self-Saturating Foam Swab	91% Isoprophyl Alcohol 9% Water Foam Tip	EB1144-ND EB1159-ND	8.06 57.62	6.86 49.04	6.18 44.14	SW5PFA-10 SW5PFA-100
6	10 Pieces 100 Pieces	5" Static Dissipative Solid Shaft	Tip 3/16" Diameter x 11/16" Length Static Dissipative Foam Tip	EB1145-ND EB1160-ND	7.21 51.61	6.14 43.92	5.53 39.53	SW5PFAS-10 SW5PFAS-100
7	10 Pieces 100 Pieces	5" Solid Shaft	29/32" Width x 1 1/8" Length Round Foam Tip	EB1146-ND EB1161-ND	5.38 38.52	4.58 32.78	4.13 29.51	SW5PFR-10 SW5PFR-100
8	10 Pieces 100 Pieces	6" Blue Solid Shaft	3/8" Diameter x 1" Length Foam Tip	EB1147-ND EB1162-ND	5.64 40.30	4.80 34.30	4.32 30.87	SW6BPF-10 SW6BPF-100
9	10 Pieces 100 Pieces	6" Solid Shaft	3/16" Diameter x 15/16" Length Foam Over Cotton Tip	EB1148-ND EB1163-ND	3.57 25.45	3.04 21.66	2.74 19.50	SW6PF-10 SW6PF-100
10	10 Pieces 100 Pieces	6" Static Dissipative Solid Shaft	3/16" Diameter x 11/16 Length Static Dissipative Foam Tip	EB1149-ND EB1164-ND	7.12 50.88	6.06 43.30	5.46 38.97	SW6PFAS-10 SW6PFAS-100
11	10 Pieces 100 Pieces	6" Solid Shaft	3/8" Diameter x 1" Length Large Foam Tip	EB1150-ND EB1165-ND	3.81 27.21	3.24 23.16	2.92 20.85	SW6PFG-10 SW6PFG-100
12	10 Pieces 100 Pieces	6" Wood Shaft	3/16" Diameter x 5/8" Length Cotton Tip	EB1151-ND EB1166-ND	.56 5.69	.48 4.84	.44 4.36	SW6WC-10 SW6WC-100
13	10 Pieces 100 Pieces	6" Wood Shaft	3/8" Diameter x 13/16" Length Foam Tip	EB1152-ND EB1167-ND	3.57 25.45	3.04 21.66	2.74 19.50	SW6WF-10 SW6WF-100
14	10 Pieces 100 Pieces	6" Static Dissipative Wood Shaft	3/16" Diameter x 11/16" Length Static Dissipative Foam Tip	EB1153-ND EB1168-ND	4.84 34.64	4.12 29.48	3.71 26.54	SW6WFAS-10 SW6WFAS-100
15	10 Pieces 100 Pieces	6" Static Dissipative Wood Shaft	3/8" Diameter x 13/16" Length Static Dissipative Foam Over Cotton Tip	EB1154-ND EB1169-ND	4.84 34.64	4.12 29.48	3.71 26.54	SW6WFCAS-10 SW6WFCAS-100

Fig. 1


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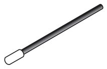

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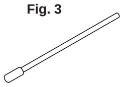

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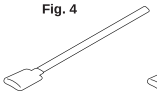

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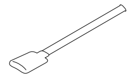

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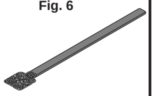

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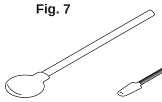

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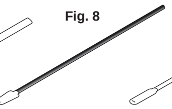

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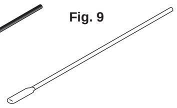

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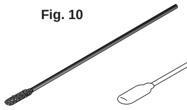

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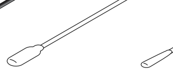

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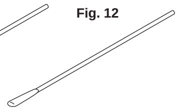

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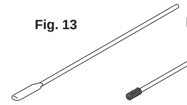

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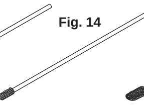

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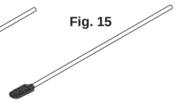
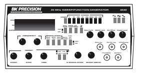


BK PRECISION®

SETTING NEW STANDARDS IN PERFORMANCE & VALUE

Function Generators


Model BK4040

FEATURES AND SPECIFICATIONS: Waveforms: Sine, Square, Triangle, ±Pulse, ±Ramp. Variable DC Offset and Duty Cycle. **Sweep LIN & LOG:** 100:1. **Frequency Counter Accuracy:** Time Base ±1 count. ***General:* Power:** 120-230VAC +10% 50/60Hz Internal jumper selectable. ***Accessories:*** BNC to Alligator Cable, Instruction Manuel. **2 Year Warranty.**

Model BK4001: 6 Ranges from 0.5Hz to 3MHz Range. Coarse and Fine Tuning. **Dimensions:** 10.83 x 3.54 x 11.81”.

Model BK4010A: 7 Ranges from 0.2Hz to 2MHz Range. Coarse Tuning. **Dimensions:** 10.51 x 4.49 x 12.24”.

Model BK4011A: Function Generator. 4 Digit LED Digital Display (4 digit Display Resolution). 7 Ranges from 0.5Hz to 5MHz Range. Variable Duty Cycle and DC Offset. Coarse and Fine Tuning. **Dimensions:** 10.51 x 4.49 x 12.24”.

Model BK4017A: 5 Digit LED Digital Display (5 digit Display Resolution). 8 Ranges from 0.1Hz to 10MHz Range. Coarse and Fine Tuning. Extended Sweep/Modulation Input: 0-10V. **Dimensions:** 4.49 x 11.73 x 10.39”.

Model BK4040A: Sweep/Function Generator with Frequency Counter. 5 Digit LED Display (5 digit Display Resolution). 8 Ranges from 0.2Hz to 20MHz Range. AM and FM Modulation. Burst Operation. 30MHz External Frequency Counter. Selectable Linear or Log Sweep. Extended Sweep/Modulation Input: 0-10V. Coarse and Fine Tuning. **Dimensions:** 10.51 x 4.49 x 12.24”.

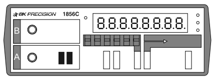
BK4001-ND	3MHz Function Generator	**$199.00**
BK4010A-ND	2MHz Function Generator	**$250.00**
BK4011A-ND	5MHz Function Generator with Digital Display	**$315.00**
BK4017A-ND	10MHz Sweep/Function Generator with Digital Display	**$399.00**
BK4040A-ND	20MHz Sweep/Function Generator with Frequency Counter and Digital Display	**$599.00**
LC-40B-ND	Carrying Case (1 Year Warranty) (For all models except BK4001)	**$84.00**

Function and Arbitrary Waveform Generator

Model BK4070A: Function and Arbitrary Waveform Generator. ***Operating Modes:* Basic Sinewave (CW) Mode:** 0Hz to 21.5MHz, .01Hz steps. **Frequency Modulation (FM) Mode and Phase Modulation (PM) Mode:** Internal modulation frequency: 0Hz to 10kHz. External modulation frequency: DC to 35kHz. **Voltage Controlled Oscillator Mode (VCO):** Endpoint frequency: 0Hz to 21.5MHz, .01Hz steps. **Burst Mode:** Continuous or Triggered via Front Panes, RS232, or Ext. TTL. **Dual Tone Multi Frequency (DTMF) Generate Mode:** Dialing digits generated: 0 to 9, #, ⋆, A, B, C, D. **Dual Tone Generation Mode:** Tone 1, Tone 2 Frequency: DC to 10kHz, 1Hz steps. **Sweep Mode:** Start/Stop frequency: 0Hz to 21.5MHz. **Function Generator Mode:** Waveforms: Positive/Negative Ramp, Triangle, Exponentials, Noise, Sine Repetition rate: 0Hz to 2MHz in 1Hz steps. **Binary Phase Shift Keying (BPSK) Mode. Amplitude Modulation (AM) Mode. Single Sideband (SSB) Mode. Frequency Shift Keying (FSK) Mode. Data Modulation Mode. Power and Voltage Measurement Mode. Dual Tone Multi Frequency (DTMF) Detect Mode. Arbitrary Waveform Generation Mode:** Vertical Resolution: 12 bits, Sample update rate: DC-40 MHz in .01Hz steps. Sample buffer depth: 32,768 points. **Pulse Generator Mode:** Frequency: 0Hz to 2MHz in 1Hz steps. Duty cycle: 0% to 100% in 1% steps. **Main Output:** Frequency: DC to 21.5MHz, .01Hz steps. Level: 4mVp-p to 10Vp-p. **External Modulation Input. RS232 port. Sync Output. Ext. Trigger/Gating/FSK/BPSK input. *General:* Power:** 100-240 VAC, 47-63Hz, 30W. **Display:** 2 line x 40 Character, LCD backlit. **Weight:** Approximately 3.5 lbs (1.6kg). **Dimensions:** 5.5 x 11.75 x 10.38” **Operating Temperature:** 32°F to 104°F (0°C to 40°C) ambient.

BK4070A-ND	Waveform Generator	**$1435.13**

Frequency Counters



Model BK1856C

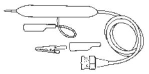
Model 1875: 2.5GHz Frequency Counter, handheld, portable **Frequency:** 10Hz to 2.5GHz ±4ppm +1 dgt **Period Characteristics: Range:** 10Hz to 10MHz **Input Characteristics: Sensitivity:** ≤50mV, 10Hz-10MHz; ≤10MHz – 35MHz; ≤100mV, 35MHz-2.5GHz **Impedance:** 1MΩ **Time Base Characteristics: Standard Type:** Crystal oscillator **Frequency:** 4.19MHz **Stability:** ±4ppm +1 dgt **Temperature Stability:** ±0.1ppm/˚C. 8-Digit LCD display .5 inch high **Dimensions:** 6.8 x 3.1 x 1.4” **Power:** 4 x 1.5V AA batteries **Accessories Included:** Instruction Manual.

Model 1856C: 2.4GHz Multifunction Counter (Frequency, Period, Totalize), Benchtop with .56 inch high 8-Digit LED Display **Frequency:** 5Hz to 2.4GHz ±Time base accuracy +1 count **Period Characteristics: Range:** 0.285µs to 200,000µs **Input Characteristics: Sensitivity:** 20mVrms, 5Hz-30MHz; 50mVrms above 100MHz **Impedance:** 1MΩ (<40pF) **Sensitivity:** 10mVrms, 20MHz, 50MHz to 600MHz, 25mVrms, 600MHz to 1.3GHz, 50mV 1.3GHz to 2.4GHz **Totalize Start/Stop Input: Logic Levels:** Standard TTL levels **Time Base Characteristics: Standard Type:** TXCO **Frequency:** 10MHz **Stability:** ±0.1ppm ±1Hz **Temperature Stability:** ±0.1ppm (from 0˚C to 28˚C) 0˚C to 50˚C ambient, ±0.5ppm from 18˚C to 28˚C. **Dimensions:** 4.5 x 11.7 x 10.38” **Power:** 120/220/240VAC ±10%, 50/60Hz **Accessories Included:** Instruction Manual.

BK1875-ND	2.5GHz Portable Handheld Counter	**$249.00**
BK1856C-ND	2.4GHz Benchtop Multifunction Counter	**$529.00**

Oscilloscopes

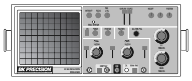
Demodulator Probe for Oscilloscopes



All purpose demodulator/detector probe with BNC Connector, usable with most oscilloscopes. Features include lightweight design and 1.2m coaxial cable. Probe bodies are constructed of rugged plastic and shielded. Ergonomically designed handle. **Input Voltage:** 200V Max. **HF Voltage:** 50Veff. Max. **Band Width:** 100kHz to 950MHz. **Input Impedance:** 5pF.

PR-32A-ND	**$59.00**

30, 60, 100 MHz Dual Trace Oscilloscope


Model BK2160A

***General Specifications:* Power Source:** 115/230VAC ±10%, 50/60Hz **Accessories Supplied:** Two 10:1 Probes, Power Cord, Instruction Manual.

Model BK2120B: 30MHz Dual-Trace operation. 1 mV/div. sensitivity. AUTO-NORM triggered sweep operation with AC, TVH, TVV, line coupling and DC. Calibrated 23 step timebase with x10 magnifier. Approx. 40W. **Dimensions:** 14.5 x 7 x 17.3”. **2 Year Warranty.**

Model BK2160A: 60MHz Dual-Trace 1 mV/div sensitivity. Sweep to 5 nS/div. **Main Time Base:** 23 calibrated ranges. **Delayed Time Base:** 19 calibrated ranges. Signal delay line. V-mode displays two signals unrelated in frequency. Component tester. Z-axis input. Single sweep. Beam finder. **Dimensions:** 5.3 x 13 x 16”. **3 Year Warranty.**

Model BK2190B: 100MHz Dual-Trace Dual Time Base Oscilloscope. 1mV/div sensitivity. Sweeps to 5nS/division. **Main Time Base:** 22 calibrated ranges. **Delayed Time Base:** 19 calibrated ranges. Calibrated delay time multiplier. **Signal Delay Line:** 15kV accelerating voltage. **Channel 1 output:** Output Voltage: Approx. 100mV/division open circuit. Approx. 50mV/division into 50Ω. Output Impedance: Approximately 50Ω. Approx. 60W. **Dimensions:** 5.5 x 12.6 x 16.9”. **3 Year Warranty.**

BK2120B-ND	30MHz	**$549.00**
BK2160A-ND	60MHz	**$1099.00**
BK2190B-ND	100MHz	**$1599.00**
LC-210A-ND	Carrying Case (1 Year Warranty) (For models BK2120B and BK2190B only)	**$92.00**

Oscilloscope Probes

Model BKPR33A: Bandwidth: 90MHz (15MHz) **Division Ratio:** x10 (x1). **Input R:** 10MΩ (1MΩ). **Input C:** 15pF (45pF). **Compensation:** 15 - 35pF. **Max Voltage:** 600V (200V). **Length:** 1.32 meters approx. **Connector:** BNC. **Three month warranty.**

Model BKPR-37AR: Bandwidth: 150MHz (6MHz). **Division Ratio:** x10 (x1). **Input R:** 10MΩ (1MΩ). **Input C:** 15pF (100pF). **Compensation:** 15 - 35pF. **Max Voltage:** 600V. **Length:** 1.32 meters approx. **Connector:** BNC. **Six month warranty.**

Model BKPR100A: Bandwidth: 250MHz. **Division Ratio:** x100. **Input R:** 100MΩ. **Input C:** 6.5pF. **Compensation:** 10 - 35pF. **Max Voltage:** 1200V. **Length:** 1.37 meters approx. **Connector:** BNC. **Six month warranty.**

NOTE: Specifications in ( ) refer to x1 position.

BKPR-33A-ND	**$33.00**
BKPR-37AR-ND	**$46.00**
BKPR-100A-ND	**$62.00**

DC Power Supplies

Regulated 28A DC Power Supply

Models BK1689, BK1690: Overload protection, High RFI stability, Multiple DC output terminals. ***Features:* Output Voltage:** DC 1-15V Variable. **Output Current:** 28A (at 13.8V). **Ripple and Noise:** 5mV (peak to peak). **Line Regulation:** 5mV (± 2% Load). **Load Regulation:** 50mV (0-100% Load).

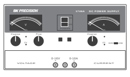
BK1689-ND	Precision Analog	**$275.00**
BK1690-ND	Digital LED	**$349.00**

High Current Linear Power Supply

Model BK1791: Current, limiting, reverse polarity, overvoltage, short circuit ***Features:* Output Voltage:** 0-64V. **Output Current:** 10A. **Metering:** LED.

BK1791-ND	**$1350.00**

DC Power Supplies to 240W Output


Model BK1746A

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.02% +2mV line and 0.04%+2mV load regulation (zero to full load), adjustable current limits (five to 100%), low ripple (≤1mVrms), fast recovery time (≤100µS), and operate from 120VAC ±10%, 60Hz. **Dimensions:** 5.7 x 10.5 x 15”. Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty.**

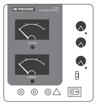
Model BK1746A: Single 0-16V, 0-10A output. Two analog meters. **Voltmeter:** 0-16V ±2.5%. **Ammeter:** High Range = 0-11A, Low Range = 0-2.2A, Accuracy = ±2.5%. **Power Consumption:** 380W.

Model BK1740A: Single 0-60V, 0-4A output. Two analog meters. **Voltmeter:** 64V ±2.5%. **Ammeter:** High Range = 0-4.4A, Low Range = 0-1.1A, Accuracy = ±2.5%. **Power Consumption:** 450W.

Model BK1743A: Single 0-35V, 0-6A output. Two 3-digit LED meters. **Voltmeter:** 0-99.9V (green) ± (0.5% rdg + 2 digits). **Ammeter:** High Range = 0-99.9A (red), Accuracy = ±(0.5% rdg + 2 digits). **Power Consumption:** 420W.

BK1746A-ND	**$525.00**
BK1740A-ND	**$525.00**
BK1743A-ND	**$525.00**

Single Output Power Supply


Model BK1730A

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.01% +3mV line and load regulation (zero to full load), adjustable current limits (5 to 100%), low ripple (≤1mVrms), fast recovery time (≤100µS), and operate from 120 VAC ±10%, 60Hz. **Dimensions:** 6.2 x 5.5 x 12.5”. Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty.**

Model BK1710A: Single 0-30V, 0-1A output. Two analog meters. **Voltmeter:** 0-32 ±2.5%. **Ammeter:** High Range = 0-1.04A, Low range = 0-0.26A, Accuracy = ±2.5%. **Power Consumption:** 70W.

Model BK1711A: Single 0-60V, 0-2A output. Two analog meters. **Voltmeter:** 0-64 ±2.5%. **Ammeter:** High Range = 0-2.2A, Low range = 0-0.55A, Accuracy = ±2.5%. **Power Consumption:** 210W.

Model BK1715A: Single 0-60V, 0-2A output. Two 3-digit LED meters. **Voltmeter:** 0-99.9V (green) ± (0.5% rdg + 2 digits). **Ammeter:** Range = 0-9.99A (red), Accuracy = (0.5% rdg + 2 digits). **Power Consumption:** 210W.

Model BK1730A: Single 0-30V, 0-3A output. Two analog meters. **Voltmeter:** 0-32 ±2.5%. **Ammeter:** High Range = 0-3.2A, Low range = 0-0.53A, Accuracy = ±2.5%. **Power Consumption:** 180W.

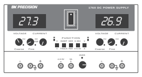
Model BK1735A: Single 0-30V, 0-3A output. Two 3-digit LED meters. **Voltmeter:** 0-99.9V ±0.5%. **Ammeter:** Range = 0-9.99A, Accuracy = ±0.5%. **Power Consumption:** 180W.

BK1710A-ND	**$239.00**
BK1711A-ND	**$320.00**
BK1715A-ND	**$399.00**
BK1730A-ND	**$325.00**
BK1735A-ND	**$399.00**

Power Supply Hook-up Cables

TL-5A-ND	5A Power Supply Leads	**$8.97**
BKTL-30-ND	30A Power Supply Leads	**$12.50**

Triple Output Power Supply



Model BK1760

Two Main sections capable of independent or tracking operation (Master & Slave). One fixed section. Switchable series/parallel operation and adjustable current limit controls for Main sections. Two displays: one reads volts or amps of “slave” supply; one reads volts or amps of “master” supply or fixed supply. Constant current and voltage indicators for Main sections. **Power Source:** 120VAC, +10% 60Hz. **Accessories Supplied**: Spare fuse, Instruction Manual, Power Cord. Test Lead Set TL-5A is sold separately.

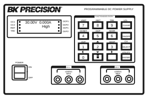
Model BK1760A: Two 0-30VDC, 2A sections; One 4-6.5VDC 5A section. Switchable series/parallel operation for 24V sections. Two 3-Digit LED Displays. **Dimensions:** 5.7 x 10.5 x 15”. **2 Year Warranty.**

Model BK1651A: Two 0-24VDC 500mA sections; One 5VDC 4A section. Switchable series/parallel operation for 24V sections. Two Analog Displays. **Accessories Included:** Test leads (3 Pairs). **Dimensions:** 5.5 x 11.75 x 10.975”. **1 Year Warranty**.

Model BK1670A: Produces three outputs simultaneously. #1=30VDC @ 3A, #2=12VDC @ 500mA and #3=5VDC @ 500mA. Two 3-Digit LED Displays. **Dimensions:** 5.5 x 5.9 x 9.45”. **1 Year Warranty.**

BK1760A-ND	**$650.00**
BK1651A-ND	**$435.00**
BK1670A-ND	**$189.00**

Programmable Power Supplies


Model BK1770

Models BK1780, BK1775, BK1770

Standard GPIB Interface: Greater flexibility interfacing with a number of third party GPIB cards, computers and controllers. **Load Effect:** 0.001% +1mV; 1mA current. **Parallel and Series Operation:** (1775 & 1780) Increases useable voltage and current capabilities for a wider variety of applications. One power supply satisfies a greater number of applications. **Front Panel Keypad:** Easy entry to set voltage, current, overvoltage and over-current. **Remote Sensing:** Maintains set voltage regardless of lead loss. **Backlit LCD Display:** Vital output information, voltage, current and operating mode. **True RMS Reading Metering:** Reliable means of comparing dissimilar waveforms. **50k MTBF:** High reliability with no downtime.

***General Specifications:* Programming Accuracy:** Voltage: 0.05% +2LSB; Current: 0.15% +5LSB. **PARD:** Voltage: 01mVrms/10m Vp-p; Current: 1mArms. **AC Input:** 115/220 VAC. **Operating Temp. Ratings:** 0°C to 50°C. **Storage Temperature Ratings:** -40°C to 70°C. **GPIB Interface Capability:** SH1, AH1, T6, TED, L4, LED, AL1 SRD, DC1, DTD, C0, E1. **Weight:** 1780 & 1770: 18 lbs. (8.1kg); 1775: 20 lbs (9 kg). **Dimensions:** 8.4 x 5.2 x 15.7”. **3 Year Warranty.**

Model BK1780: 0-18V, 0-4A DC output • Programming Resolution: 5mV, 1.5mA, 100mV DVP.

Model BK1775: 0-35V, 0-2A DC output • Programming Resolution: 10mV, 0.6mA, 200mV DVP.

Model BK1770: 0-17.5V; 0-35V, 0-6A; 0-3A DC output • Programming Resolution: 10mV, 2mA, 200mV DVP.

BK1780-ND	**$1350.00**
BK1775-ND	**$1295.00**
BK1770-ND	**$950.00**

Models BK1785A, BK1786A, BK1787A

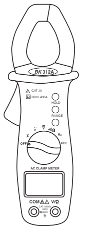
Ripple and Noise (RMS): 1mV. **Line Regulation:** 0.02% +5mV. **Load Regulation:** 0.02% +5mV. **PC Interface (included):** Computer serial interface. **Operating Voltage:** 120 VAC, 60Hz. **Dimensions:** 8.6 x 4.5 x 10.6”. **Accessories Supplied:** User manual, serial cable, Windows™ and DOS software. **Weight:** Approximately 11 lbs. (5 kgs). **Display:** 3 Digit LED voltmeter and ampmeter.

BK1785A-ND	0-18V, 5A DC Output	**$375.00**
BK1786A-ND	0-30V, 3A DC Output	**$375.00**
BK1787A-ND	0-60V, 1.5A DC Output	**$375.00**

BK PRECISION®
SETTING NEW STANDARDS IN PERFORMANCE & VALUE

Multimeters

Clamp-on Multimeters



Model BK312A

General Specifications:

Power Requirements: One 9V battery. **Jaw Opening:** 2.24" (56.9mm) for Models 312A, 330B, 350B, and 369B; 1.75" (44.45mm) for Model 367. **Accessories Included:** Battery, test leads, instruction manual, carrying case.

Model BK312A: **AC Current:** 400A (10mA). **AC Voltage:** 600V (100mV). **DC Voltage:** 600V (100mV). **Resistance:** 400Ω (0.1Ω). **Count Resolution:** 2000. ***Features:*** • Continuity • Data Hold

Model BK330B: **AC Current:** 200A to 1000A, 2 ranges, ±(1.5% rdg + 5D) accuracy, 1200A overload protection. **AC Voltage:** 750V, ±(1.2% rdg +5D) accuracy, 1000V DC/750V RMS overload protection, 4.5MΩ input impedance. **DC Voltage:** 1000V, ±(0.5% rdg + 1D) accuracy, 1000V DC/750V RMS overload protection, 10MΩ input impedance. **Resistance:** 200Ω to 2000MΩ, 14 ranges. **Dimensions:** 10.8 x 3.6 x 1.7". **Weight:** 17 oz. (481.9gm). ***Features:*** • Continuity • Diode • 2000 count resolution • Data hold • Max. hold • UL Listed

Model BK350B: **AC Current:** 32A to 1000A, 3 ranges, ±(1.5% rdg + 5D) accuracy, 1200A overload protection. **AC Voltage:** 320mV to 1000V, 5 ranges, ±(1.5% rdg + 4D) accuracy, 1000V DC/750V RMS overload protection, 10MΩ overload protection. **DC Voltage:** 320mV to 1000V, 5 ranges, ±(0.5% rdg + 1D) accuracy, 1000V DC/750V RMS overload protection, 10MΩ input impedance. **Resistance:** 320Ω to 2000MΩ, 14 ranges. **Frequency:** 320Hz to 32kHz, 3 ranges, ±(1% rdg + 2D) accuracy, 500V DC/AC RMS. **Dimensions:** 10.8 x 3.6 x 1.7". **Weight:** 17 oz. (481.9gm). ***Features:*** • Continuity • Diode • 3200 count resolution • Bargraph • Data hold • Peak hold • Range hold • UL Listed

Model BK367A: **AC and DC Current:** 400A to 2000A, 2 ranges, ± (1.5% rdg + 4D) accuracy, 1000A overload protection. **AC Voltage:** 750V, ± (0.5% rdg + 4D) accuracy, 1000V overload protection, 10MΩ input impedance. **DC Voltage:** 200V, ± (1% rfg + 2D) accuracy. 500V overload protection. 10MΩ input impedance. **Resistance:** 40MΩ **Dimensions:** 10.8" x 3.6" x 1.7" (275mm x 90mm x 43mm) **Weight:** 18.3oz. (519g). **Features:** • Diode • 4000 count resolution • Data hold • Peak hold **Capacitance Range:** 40µF

Model BK369B: **AC and DC Current:** 400A to 1000A, 2 ranges, ±(1.5% rdg + 5D) accuracy, 1200A overload protection. **AC Voltage:** 400mV to 1000V, 5 ranges, ±(1.5% rdg + 4D) accuracy, 1000V DC/750V RMS overload protection, 10MΩ input impedance. **DC Voltage:** 400mV to 1000V, 5 ranges, 0.5% accuracy, 1000V DC/750V RMS overload protection, 10MΩ input impedance. **Resistance:** 400Ω to 40MΩ. **Frequency:** 100Hz to 400kHz, 5 ranges. **Capacitance:** 4nF to 40µF. **Dimensions:** 10.8 x 3.6 x 1.7". **Weight:** 18.3 oz. (518.8gm). ***Features:*** • True RMS • Continuity • Diode • 4000 count resolution • Bargraph • Data hold • Peak hold • Range hold • Max/Min • Relative • UL Listed

BK312A-ND	10mA/400A	**$79.00**
BK330B-ND	200/1000A	**$95.00**
BK350B-ND	32/320/1000A	**$155.00**
BK367A-ND	400A/2000A	**$209.00**
BK369B-ND	400/1000A	**$189.00**
LC-33-ND	Carrying Case (1 Year Warranty)	**$24.00**

High Performance Dual-Display Multimeters

General Specifications: • 4,000/40,000 selectable display counts • 6/750V AC • 6/1000V DC • ±(0.06% +3) basic DCV accuracy • 6/10A AC and DC current • 6Ω to 40MΩ resistance • Auto or manual ranging • Voltage range frequency of 5/200KHz on dual display • dB measurement • 7/9,999µF capacitance • Bargraph • Min./Max., Data and Refresh hold • Relative zero • RS232 output • Diode and continuity test • Auto-off

Model BK2880A: DMM with AC Coupled RMS.

Model BK2890: DMM with frequency counter to 10MHz. **True RMS**: AC + (AC + DC) Coupled. **Operating Temperature:** to 2502°F (1372°C). **Square Wave Output:** 16 / 4.8KHz @ 0 to +3V. **Timer + Signal Output:** Max. Timer 99Ksec. @ 0 to +3V. **Backlight**

BK2880A-ND	**$199.00**
BK2890-ND	**$299.00**

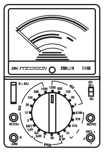
Bench DMM True RMS

Model BK2831C:

DC Volt Ranges: 200mV, 2V, 20V, 200V, 1200V. **AC Volt Ranges:** 200mV, 2V, 20V, 1000V True RMS. **DC/AC Basic Accuracy:** 0.1% +1 digit. **AC/DC Input Impedance:** 10MΩ (AC <100pF) **AC/DC Resolution:** 0.1mV, 1mV, 10mV 100mV, 1V. **AC/DC Basic Accuracy:** 0.1% rdg +1 dig. **AC/DC Current Ranges:** 200µA, 2mA, 20mA, 200mA, 2A, 20A. **AC/DC Resolution:** 100nA, 1µA, 10µA, 100µA, 1mA, 10mA. **DC Basic Accuracy:** 0.2% +1 digit. **AC Basic Accuracy:** 1.0% rdg +4 digits. **AC/DC Overload Protection:** 2A/250V fuse and 4A/500V fuse, 20A unfused. **Resistance Range:** 200Ω, 2kΩ, 20kΩ, 200kΩ, 2000kΩ, 20MΩ. **Resolution:** 0.1Ω, 1Ω, 10Ω, 100Ω, 1kΩ, 10kΩ. **Basic Accuracy:** 0.2% rdg +1 digit. **Diode Test:** Tested on 2kΩ range, 1mA test current. **Continuity Check:** Audio tone for resistance under 10Ω. **General Display:** 3-1/2 digit LCD, 0.5 inch LED. **Power:** 120/240 VAC, 50/60Hz (5W). **Operating Temperature:** 0ºC to 40ºC, 70%RH. **Dimensions:** 4.5 x 11.75 x 10.375".

BK2831C-ND		**$299.00**
LC-40B-ND	Carrying Case (1 Year Warranty)	**$84.00**

Analog Multimeter



Model BK114B:

20,000/Volt Multimeter. 28 ranges. 88.90mm mirrored scale. Tests batteries under load. Test transistors.

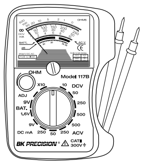
Power Source: Two 1.5 volt batteries and one 9V battery.

Size: 5.7 x 3.9 x 1.4".

Accessories Supplied: Batteries, test leads, transistor test leads, instruction manual.

BK114B-ND	**$39.00**

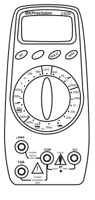
Pocket Size Multimeter



Measures DC & AC Voltage:
50/250/500VAC, 10/50/250/500VDC scales with ±5% accuracy (full scale). 2000Ω/V.
Measures DC current:
25/250mA with ±5% accuracy (full scale).
Measures resistance:
0-10k/1MΩ, ±5% degree arc of scale length.
Measures decibel:
+4dB to +56dB on AC voltage ranges.
Battery Test Range: 1.5V/9V.
Power Supply: One 1.5V, AA battery.
Dimensions: 3.1 x 4.7 x 1.2".
Accessories Supplied: Battery, test leads, and instruction manual.

BK117B-ND	**$19.95**

Mini-pro Multimeter



Specifications:

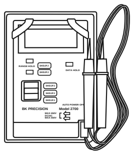
Digits: 2000. **Ranging:** Manual. **VDC:** 100mV-600V. **VAC:** 100mV-600V. **DC Current:** 0.1 mA-10A. **AC Current:** 0.1 mA-10A. **Resistance:** 200Ω - 20MΩ.

Features:

• Diode test • Continuity test • Non-contact voltage indicator • Data hold • MAX hold

BK2408-ND		**$45.00**
LC-24-ND	Carrying Case (1 Year Warranty)	**$14.00**

Pocket DMM

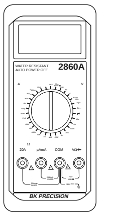


Pocket DMM. Analog bar graph with 32 segments. 3200 count LCD display. Auto power off. Low battery indicator. Range hold. Data hold. Integral test leads.
Power: Two 1.5V button type batteries.
Dimensions: 4.4 x 2.2 x .4".
Accessories Supplied: Batteries, instruction manual, case.

BK2700-ND	**$35.00**

3½ Digit Ruggedized DMM

HIGH ENERGY FUSED



The Survivor™. High Energy Fused Ruggedized DMM. 3-1/2 digit 20.32mm high contrast LCD display.

Audible Continuity: 20 Amp range.

Sampling: 2.5 times/sec. (nominal). Heavy Duty 1500VDC, 1000VAC rating. Water resistant case.

Power Requirements: Single 9V battery.

Auto Power Off: approx. 30 min.

Dimensions: 6.9 x 3.5 x 1.5".

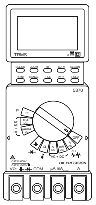
Accessories Supplied: Battery, test leads, instruction manual, rubber boot.

5 Year Warranty.

BK2860A-ND		**$99.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

Premium DMM

"Certificate of Traceability Supplied"



Model BK-5370

All Models: • 50,000 count • True RMS, AC or AC + DC • Capacitance to 50,000 µF • Splashproof sealed case • IEC1010, class 2 safety compliance

• 3 Year Warranty

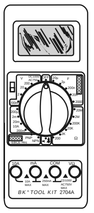
Model BK-5390: • 0.025% DCV • 0.07%Ω • 100KHz AC response • Autoranging, bargraph with zoom • Frequency: Duty cycle, pulse width • dB Across: 1Ω to 10kΩ • Power Across: 1Ω to 10kΩ • Disturbance indicator • Min./Max./Avg.

Model BK-5370: • 0.05% DCV • 0.07%Ω • 100 KHz AC response • Autoranging, bargraph with zoom • Frequency: duty cycle • Temperature: ±0.5°C • dB Across: 1Ω to 10kΩ • Disturbance indicator • Min./Max./Avg.

Model BK-5360: • 0.01% DCV • 0.1%Ω • 30KHz AC response • Autoranging, bargraph • Frequency: duty cycle

BK5390-ND	**$325.00**
BK5370-ND	**$289.00**
BK5360-ND	**$229.00**

"Tool Kit" Multimeters



Model BK-2704A

Display: 3-1/2 digit, high-contrast 0.7" (17.78mm) LCD, 1999 counts. **Sampling:** 3 times/sec. (nominal). 0.5%DCV accuracy. **Operating Temp:** 0°C to +50°C, 0% to 70% RH. **Power Requirements:** 9V battery. **Accessories Supplied:** Battery, drop resistant case, test leads, and instruction manual.
1 Year Warranty.

Model BK2708:

DC Volts: 1000V Max. **AC Volts:** 750V Max. **DC Current:** 10A Max. **AC Current:** 10A Max. **Resistance:** 0.1Ω-43MΩ
Features: • Auto Ranging • Logic probe

Model BK2707A:

DMM, component tester, frequency counter, and logic probe. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC frequency counter. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 200MΩ. **Capacitance:** to 20µF. **Frequency:** 2kHz to 5MHz. **Logic Probe Function:** (TTL). **Transistor Gain Measure:** (hFE). **Dimensions:** 5.9 x 3.1 x 1.3".

Model BK2706A:

DMM, component tester, and temperature meter. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 20MΩ. **Capacitance:** to 20µF. **Frequency:** 10Hz to 15MHz. **Transistor Gain Measure:** (hFE). **Temperature:** 0°C to 750°C. Thermocouple probe included. **Dimensions:** 5.9 x 3.1 x 1.3".

Model BK2704B:

DMM, component tester. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 20MΩ. **Capacitance:** to 20µF. **Transistor Gain Measure:** (hFE). **Dimensions:** 5.9 x 3.1 x 1.3".

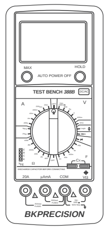
Model BK2703B:

DMM, **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 20MΩ. **Frequency:** 10Hz to 15MHz. **Dimensions:** 5.9 x 3.1 x 1.3".

BK2708-ND		**$99.00**
BK2707A-ND		**$89.00**
BK2706A-ND		**$79.00**
BK2704B-ND		**$59.00**
BK2703B-ND		**$39.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

"Test Bench" Multimeters

HIGH ENERGY FUSED



Model BK388B

High quality, ruggedized, multi-function DMMs in a drop resistant case. Resistance and frequency measurement. Diode check. Auto power off. All current ranges fused. **Power Requirements:** Single 9V battery. **Dimensions:** 7.8 x 3.5 x 1.5".

Accessories Supplied: 9 Volt battery, test leads, instruction manual, rubber boot.

3 Year Warranty.

Model BK388B-ND:

3-3/4 Digit LCD Display (4000 count). **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1mA, 3.2VDC max. typ. **Capacitance:** 4nF to 40µF. **Frequency:** 4kHz to 4MHz. Logic level measure (TTL) Transistor gain (hFE) and peak hold.

Model BK390A-ND:

3-3/4 Digit LCD Display (4000 count). **Analog Bar Graph:** 41 Segments. **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1.2mA, 3.0VDC max. typ. **Capacitance:** 4nF to 40mF. **Frequency:** 4kHz to 40MHz. **Temperature Range:** -50°C to +1300°C (1°C resolution). Auto/manual ranging. Relative mode. Min/Max hold. Data hold. Memory. RS-232. Audible continuity. Thermocouple Probe included.

Model BK389A-ND:

3-3/4 Digit LCD Display (4000 count). **Analog Bar Graph:** 41 Segments. **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1.2mA, 3.0VDC max. typ. **Capacitance:** 4nF to 40mF. **Frequency:** 4kHz to 40MHz. Auto/manual ranging. Relative mode. Min/max hold. Data hold. Memory. Audible continuity.

Model BK391A-ND:

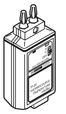
4-1/2 Digit LCD Display (20,000 count). **DC Volts:** 200mV to 1000V. **AC Volts:** 200mV to 750V. **DC/AC Current:** 400µA to 10A True RMS reading. **Resistance:** 200Ω to 20MΩ. **Diode Test:** at 1mA, 3.2VDC max. typ. **Frequency:** 2kHz to 200kHz. **Duty Cycle**: .0 to 90% (0.1% resolution). Data hold. Logic level measure (TTL).

BK388B-ND		**$127.00**
BK390A-ND		**$167.00**
BK389A-ND		**$145.00**
BK391A-ND		**$187.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

SETTING NEW STANDARDS IN PERFORMANCE & VALUE

Accessories

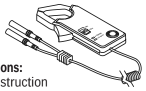
Temperature Adapter



Type K thermocouple. Measures from -50°C to +1000°C. 1mV per degree. Measures temperature of any surface, liquid or gas. Converts any voltmeter to measure temperature. Open probe warning. **Power:** Standard 9V battery. **Dimensions:** 4.8 x 1.8 x 1.2”. **Cable Length:** .914 meters. **Accessories Supplied:** TP-29.

TP-30B-ND	**$68.97**

DC/AC Current Clamp Adapter



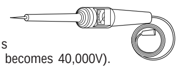
Measures current without disconnecting circuit under test. Measures to 400A DC or AC. Outputs 1 mV per Amp., operates on 2V range of any DMM. **Power Requirements:** 9V battery. **Operating Temp.:** 0° to 50°C, <70% RH. **Dimensions:** 7 x 2.8 x 1.3”. **Accessories Included:** Battery, instruction manual.

BKCP-3-ND	**$86.00**

Probes and Test Lead Sets

TP-29-ND	Type K Bead Thermocouple Probe	**$9.00**
BKTL-4-ND	Universal Test Lead Set	**$7.94**
TL-2A-ND	Test Lead Set, Fully Shrouded SILIC, IEC61010-2-031 1,000V CATIII	**$20.00**
TL-1-ND	Test Lead Set, Fully Shrouded	**$7.94**
TL-3-ND	Test Lead Accessory Set for BKTL-4 & TL-2A	**$16.00**

High-Voltage Probes



Model PR-28A: Accessory for DMM’s
Multiplies instrument ranges by 1000 (40V becomes 40,000V).
PR-28 for use with any high impedance (10MΩ or greater) voltmeter. **Voltage Range:** 40kVDC and 20kVAC (60Hz). **Freq. Range:** DC-8Hz 20kVAC max. 60Hz. **Impedance:** 600MΩ accuracy: ±3% plus instrument accuracy. **Calibration:** Internal; factory calibrated at 25kV. **Size:** 14” long; 2.25” dia. (max.); 48” cord. **Connector:** Dual banana.

Model HV-44A: Built in meter for stand-alone operation (No DMM required). Measures voltages up to 40,000VDC. Factory calibrated at 25kV (±2% accuracy); full scale ±3% accuracy. Conventional round needle type tip and flat spring type tip for easy access to CRT anode. **Size:** 16.5 x 2.1 x 2”. **Color:** Black & Red. **Positive Polarity Only –** *Not for microwave ovens.*

PR-28A-ND		**$58.93**
HV-44A-ND		**$109.00**
LC-32A-ND	Carrying Case (1 Year Warranty)	**$32.00**

Logic Probes

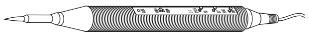
20MHz and 50MHz Logic Probes

Model DP-21: **(20MHz Logic Probe):** Tests TTL, DTL, RTL, HTL, CMOS and MOS. Displays pulse presence and logic states. Memory mode "freezes" pulse display. Catches pulses to 30ns or pulses trains to 20MHz. 1MΩ input impedance. **Operating Supply Voltage Range:** TTL–5V, CMOS 5-15V. **Dimensions:** .7 x .7 x 8.2”.

Model BKDP52: **(50 MHz Logic Probe):** Tests TTL and CMOS. Displays DC to 50MHz. Detects 10ns pulse width. Overload protected. 120kΩ input impedance. **Operating Supply Volt. Range:** 4-18VDC. **Dimensions:** .7 x .7 x 8.2”.

DP-21-ND	**$35.00**
BKDP52-ND	**$45.00**

Pulser Probe

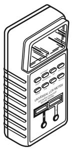


For TTL and CMOS. Produces 10µS pulse signal at 100mA. External square wave terminal. **Output Current:** Pulser mode-100mA sink/source square wave mode-5mA sink/source. **Operating Supply Voltage Range:** 5-15VDC. **Sync Input Impedance:** 1MΩ. **Dimensions:** .7 x .7 x 8.2”.

DP-31A-ND	**$35.00**

Component Testers

Dual-Display LCR Bridge



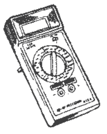
Measures inductance, resistance, capacitance, DF & Q. Auto ranging. 4-digit LCD display. Auto calibrate. Tests at 120Hz or 1kHz. Relative mode. Tolerance mode. Basic accuracy 0.7%. **Dimensions:** 1.5 x 3.5 x 7.6”. **Accessories Included:** Test leads, AC adapter, instruction manual.

BK878-ND		**$275.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

LCR/ESR Meter

- Measurement parameters: Z, L, C, DCR, ESR, D, Q, and 0
- Test conditions: 100Hz, 120Hz, 1kHz, 10kHz, 1vrms, 0.25Vrms, 0.05Vrms
- 0.5% basic accuracy
- Dual LCD display
- SMD surface mount tweezer probe included
- Fully auto/manual selection
- DC resistance measurement
- Rechargeable battery/AC powered

BK885-ND		**$549.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

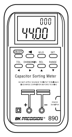


LCR Meter

Model 875B: Measures capacitance (200pF-20mF ±1%), resistance (2-20MΩ ±1%), and inductance (200µH-200mH ±1%). 3-1/2 digit LCD display. Low battery and overload indicator. **Power:** Single standard 9V battery. **Dimensions:** 1.4 x 3.5 x 7.5”. **Accessories Included:** Test leads, battery, instruction manual.

BK875B-ND		**$189.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

Auto Ranging Capacitance Meter



Nine ranges 0.1pF to 50mF. 0.1pF resolution. 4 digit LCD display. Dual display. RS-232 Output to PC. Data hold. Auto power off. Display zeroing. Audible alert mode (for sorting). High/Low limit sorting capability. **Power Source:** One 9V battery. **Dimensions:** 1.5 x 3.5 x 7.6”. **Accessories Included:** Protective holster, alligator clips, 9V battery, instruction manual.

BK890-ND		**$129.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

Capacitance Meter

3-1/2 digit LCD display. Nine ranges from 200pF to 20mF. Low battery and over-range indicator. **Power Source:** One 9V battery. **Dimensions:** 5.7 x 3 x 1.6”. **Accessories Included:** Test leads, battery, and manual.

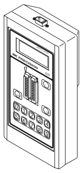
BK810C-ND		**$79.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

IC Testers

Identify, test and verify unknown ICs, quickly and reliably. Batteries and operation manual included.

Model 570 — Linear IC Tester

- Tests all common analog ICs
- Auto identification of unmarked/house-coded devices lists possible replacements
- Conditional/unconditional loop testing modes
- Functional test emulates passive circuitry to implement a comprehensive test in a variety of configurations
- Displays diagnostic information down to individual component pins
- Rugged, handheld, ergonomically designed case incorporates built-in membrane keypad, 2 x 16 dot matrix alpha-numeric, LCD and high quality 16-pin ZIF socket
- Battery operated (2 x 9V) with low power design.



Model BK-570

Model 575 — Digital IC Tester

- 40-pin wide-entry ZIF sockets test a broad range of TTL, CMOS, Memory, LSI, Interface and other devices (NAND gates to CPUs)
- Identifies unmarked and house-coded devices
- Detects intermittent and temperature related faults
- Displays diagnostic information for individual pins
- Battery operated (4 x 1.5AA batteries)

Model 898A — SIMM and DIMM Tester

Key Features: SIMM 72-pin, 32/36 bits (socket included). **Error Detection and Identification:** • Single data bits • Power and noise related failures • Solder opens and shorts • Timing related failures • Data retention errors • Intermittent failures. **User Configuration Test Modes:** Walking bits 0s • Walking bit 1s • Marching up • Checkerboard • Inversed checkerboard. ***Basic Technical Specifications:*** **Power Consumption:** • 898A 12VAC, 1.5A • Wall AC/AC adapter • Input: 120VAC @ 60Hz, 40W (USA) • Output: 12VAC, 2.0A, • Dimensions: 7 x 6 x 2.5”. **Environmental:** • Operating temperature: 10°C to 50°C • Relative humidity: 20% to 80% noncondensing

BK570-ND	Linear IC Tester	**$995.00**
BK575-ND	Digital IC Tester	**$895.00**
BK898A-ND	SIMM and DIMM Tester	**$1295.00**

Cable/Harness Tester

A compact, stand-alone unit that can be used for any type of wired assembly. Opens, shorts and miswires are detected immediately. A universal adapter card offers outstanding flexibility and convenience, ready to accept any of industry’s most popular 22 connector styles. A crisp, easy-to-read LCD instantly indicates good or faulty connections and simplifies troubleshooting.
Connect Test Threshold: Resistance: Shorts <130Ω ±10%; Opens 130Ω ±10%; Capacitance: Shorts >0.6µf ±10%; Opens <0.6µf ±10%. **Test Conditions:** 5 volts at 6mA. **Max. Multiple Connection Display:** Up to 16 test points. **Test Cycle Time:** <0.5 sec. **Test Point Capacity:** Max. 128 points (64 connections). **Program Storage:** Lithium battery backs up memory for 50 cables. **Probe:** Single wire test probe with standard .175” (4.45mm) banana jack. **Display:** 2 line x 16 character LCD; 2 LEDs (green/red) for “PASS” or “FAIL” conditions. **Printer Port:** Standard Centronics type parallel interface. **Power:** DC 12V-14V, 500mA AC adapter. **Dimensions:** 2.1 x 13.8 x 9”. **Weight:** 6 lbs. (2.72kg).

Accepts These Connectors

Interface Qty. (Ea.)	Spacing/ Style	Connector Type	Max. Pins
8	0.1” (2.54mm)	Dual-Row	64
2	“D” Submini	Dual-Row	37
2	Delta	Centronics	80
2	0.6” (15.24mm)	DIP	40
2	RJ11	Phone Plug	6
2	RJ45	Phone Plug	8
2	0.156” (3.96mm) Header	Single-Row	20
2	0.1” (2.54mm) Header	Single-Row	32

BK205-ND	**$995.00**

Network and PC Cable Testers

Model 231A:

- Tests 10 BaseT, 100 Base2, RJ45, RJ11,356A, TIA-568A, TIA-568B, and token ring cables
- Detects open, short, cross, and continuity
- Tests Point-to-Point, rather than Pair-to-Pair
- Tests cables on wall plate or patch panel up to 1000 ft. away with the remote kit
- Easy to read LED display

Model 235:

- Detects open, short, reversed, crossed and split
- Clear LED display for the fault status
- Test cable length: Minimum - 4ft. (1.2m) Maximum - 492ft. (150m)
- Identify up to 4 different cables at one end by provided remote identifiers
- Tests: 10BaseT, 100BaseTx, 10Base2 (coax), RJ45, 356A,TIA-568A, TIA-568B, and token ring ect.

BK231A-ND	DLX Multi-Network Cable Tester	**$79.00**
BK235-ND	Remote Network Cable Tester	**$225.00**

EPROM Eraser

Model BK850:

- Timer setting: 15 minutes
- Supply voltage: 12VDC/500mA (AC/DC adapter included)
- UV light source: 4 watt bulb
- UV bulb life: > 4000 hours
- Dimensions: 6.2 x 2.72 x 1.45”

BK850-ND	**$95.00**

Deluxe EPROM Eraser

Model BK851:

Heavy duty EPROM eraser simultaneously erases up to 40 twenty-four pin EPROMs. Features a 60 minute timer.

BK851-ND	**$169.00**

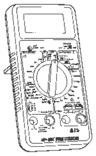
Power Supply Leakage Tester

Model 1655A:

- Variable isolated output—0-150VAC
- 3 amp continuous, 4 amp intermittent output
- Built-in soldering iron temperature control
- Expanded leakage scale
- Circuit breaker overload protection
- Displays volts, amps, VA, leakage

BK1655A-ND	**$529.00**

$3^1/_2$ Digit Hand-Held Parts Tester

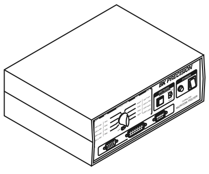


26 user ranges for versatile test selection. Tests capacitance from 0.1pF—20mF. Tests resistance from 0.1Ω—20MΩ. Tests transistors, SCRs, diodes and LEDs. Tests batteries under actual loaded conditions.

Power: One 9V transistor battery. **Dimensions:** 6.9 x 3.6 x 1.3”. **Accessories Included:** Test leads, spare fuse, battery, instruction manual.

BK815-ND		**$99.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$17.00**

Video Monitor Testers



Model 1280A:

Fully featured bench-top design to test both Mac and PC monitors. All patterns can be manually selected or placed in Auto for automatic cycling of each available pattern. Designed to test (burn-in) one to four monitors, the 1280A can also be used as a display generator. Full color, green, blue, red, black and white. **Features:** • PC and Mac patterns • 16 monitor types/resolution selections • Color bar, cross hatch, dot, raster, Windows™ selection • VGA, SVGA, RGB, HV, V and Four DB-15 (rear panel) for multiple monitor burn-in • AC adapter included • Available patterns: PC — 1280 x 1024, 1024 x 768, 8514A, SVGA, VGA, EGA, CGA, MDA; Mac — 1280 x 1024, 1152 x 870, 1024 x 768, 832 x 624, 640 x 480 (3 types), 512 x 384

Model 1275:

Handheld unit to test PC and Mac monitors. Generates crosshatch, dots, color bars and raster patterns in green, blue, red, black and white. **Features:** • CGA, VGA, SVGA • Standard DB9, DB-15 and DB-15 Hi-res mini connectors • 9VDC battery • Available Patterns: PC — 1280 x 1024, 1024 x 768, 8514A, SVGA, VGA, EGA, CGA; Mac — 640 x 480

BK1280A-ND	Bench-top Video Generator	**$299.00**
BK1275-ND	Handheld Video Monitor Tester	**$189.00**

NTSC Generator

Model BK1257:

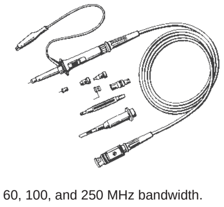
This portable, handheld NTSC Pattern Generator with S-Video, composite video and audio outputs is powered by a 9-volt battery or AC adapter. It provides NTSC color bars, crosshatch, dot, staircase, circle, center cross, windows, and a full range of color raster patterns. The outputs available are composite video and audio via two RCA connectors or an S-Video mini-DIN output. Signals can be produced as an interlaced or progressive scanning mode. No modulated RF signal is provided.

BK1257-ND	NTSC Generator	**$199.00**

High-Performance Oscilloscope Probes

IEC 1010 Category I or Category II Compliance

It is important that you select a probe with the same bandwidth or "frequency range" as the oscilloscope used for the job. For example, if you're using a 100 MHz oscilloscope, choose a probe with a minimum of 100 MHz. To achieve optimum performance, choose a probe with more than twice the bandwidth of the oscilloscope.



Category I

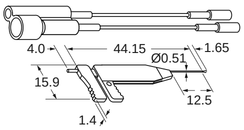
This slim design comes equipped with interchangeable cables, probe tips and grooved heads. Compensation adjustment placed in the BNC eliminates noise and interference related pickup. Available in switchable and non-switchable versions.

Category II

This versatile design offers three monolithic interchangeable probes in 60, 100, and 250 MHz bandwidth.

Band-width	Atten-uation	Cable Length Meters	Input Impedance R C	Max Input V DC + Peak AC Range	Rise Time	Compen-sation	Read-out	Digi-Key Part No.	Price Each	TPI Part No.
Switchable, IEC 1010 Compliant - Category II										
60 MHz	x1 x10	1.5	1 Meg 200pF 10 Meg 22pF	600V	6ns	20-45pF	NA	290-1055-ND	49.95	IP060
100 MHz	x1 x10	1.5	1 Meg 200pF 10 Meg 22pF	600V	3.5ns	20-45pF	NA	290-1056-ND	59.95	IP100
250 MHz	x1 x10	1.5	1 Meg 200pF 10 Meg 22pF	600V	1.5ns	10-60pF	NA	290-1057-ND	69.95	IP250
Switchable, IEC 1010 Compliant - Category I										
60 MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 18pF	600V	5.8ns	10-35pF	NA	290-1003-ND	34.95	SP60B
100 MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 16pF	600V	3.5ns	10-35pF	NA	290-1004-ND	39.95	SP100B
150 MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 15pF	600V	2.3ns	10-35pF	NA	290-1005-ND	44.95	SP150B
200 MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 15pF	600V	1.8ns	10-35pF	NA	290-1006-ND	49.95	SP200B
250 MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 14pF	600V	1.4ns	10-35pF	NA	290-1007-ND	54.95	SP250B
300 MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 12pF	600V	1.1ns	10-35pF	NA	290-1008-ND	59.95	SP300B
Non-Switchable, IEC 1010 Compliant - Category I										
15 MHz	x1	1.2	1 Meg 47pF	600V	23ns	—	NA	290-1000-ND	29.95	1P20B
100 MHz	x10	1.2	10 Meg 16pF	600V	3.5ns	10-35pF	NA	290-1001-ND	34.95	P100B
100 MHz	x10	1.2	10 Meg 16pF	600V	3.5ns	10-35pF	Yes	290-1050-ND	39.95	P100BR
200 MHz	x10	1.2	10 Meg 15pF	600V	1.8ns	10-35pF	NA	290-1002-ND	39.95	P200B
250 MHz	x100	1.2	100 Meg 6.5pF	1200V	1.4ns	10-35pF	NA	290-1051-ND	44.95	P250
250 MHz	x100	1.2	100 Meg 6.5pF	1200V	1.4ns	10-35pF	Yes	290-1052-ND	49.95	P250R
250 MHz	x10	1.2	10 Meg 14pF	600V	1.4ns	10-35pF	NA	290-1053-ND	44.95	P250B
250 MHz	x10	1.2	10 Meg 14pF	600V	1.4ns	10-35pF	Yes	290-1054-ND	49.95	P250BR

Nano-Clips and Micro-Clips



NANO-CLIP SPECIFICATIONS:
Accessible Lead Pitch: 0.3mm min. **Clip Retention:** 50g min. **Stroke:** 1.65mm **Operating Force:** 300g max. **Contact Resistance:** 30 Meg ohm **Conductor Resistance:** 300 Meg ohm

NANO-CLIP FEATURES:
• Gold-plated hook and contact • Fluorine coated barrel extension

MICRO-CLIP SPECIFICATIONS:
Accessible Lead Pitch: 1.27mm min. **Clip Retention:** 200g min. **Stroke:** 3.0mm **Operating Force:** 1.0kg max. **Contact Resistance:** 30 Meg ohm **Conductor Resistance:** 200 Meg ohm

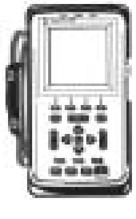
Description	Package Includes	Digi-Key Part No.	Price Each	TPI Part No.
Nano-Clip .3mm				
Black, Red	2 Clips, 2 Lead Sets and Ground Lead	290-1096-ND	29.95	NC2BR
Black, Red	6 Clips, 3 Lead Sets, and Ground Lead	290-1097-ND	99.95	NC6BR
Red	6 Clips, 3 Lead Sets, and Ground Lead	290-1098-ND	99.95	NC6R
Black	6 Clips, 3 Lead Sets, and Ground Lead	290-1099-ND	99.95	NC6B
Yellow	6 Clips, 3 Lead Sets, and Ground Lead	290-1100-ND	99.95	NC6Y
Blue	6 Clips, 3 Lead Sets, and Ground Lead	290-1101-ND	99.95	NC6CBLUE
Green	6 Clips, 3 Lead Sets, and Ground Lead	290-1102-ND	99.95	NC6G
Gray	6 Clips, 3 Lead Sets, and Ground Lead	290-1104-ND	99.95	NC6GY
Assorted	12 Clips, 6 Lead Sets, and Ground Lead	290-1105-ND	175.95	NC12
Black	1 Clip	290-1106-ND	7.95	NC1B
Gray	1 Clip	290-1107-ND	7.95	NC1GY
Red	1 Clip	290-1108-ND	7.95	NC1R
Yellow	1 Clip	290-1109-ND	7.95	NC1Y
Green	1 Clip	290-1110-ND	7.95	NC1G
Blue	1 Clip	290-1111-ND	7.95	NC1BLUE
Ground	1 Lead	290-1112-ND	4.25	NCGROUND
Hot	1 Lead	290-1113-ND	3.50	NCHOT
Dual Lead	1 Lead	290-1114-ND	6.38	NCDUAL
Lead Out Contact	Use with 24-28 AWG Wire (Solder-Type)	290-1115-ND	2.97	LC85
Lead Out Contact	Needs Crimp Tool for Nano-Clip & Micro-Clip	290-1116-ND	2.40	LC65
Micro-Clip 1.27mm				
Black	1 Clip	290-1118-ND	6.38	MC1B
Gray	1 Clip	290-1119-ND	6.38	MC1GY
Red	1 Clip	290-1121-ND	6.38	MC1R
Assorted	6 Clips, 3 Lead Sets and Ground Lead	290-1117-ND	29.99	MC6

Dual Channel, 20MHz Oscilloscope

with True RMS Digital Multimeter

Portable Oscilloscope and Dual Input DMM

- Cursor Readout
- Pre-Post Triggering
- Decibel Measurement
- Trend Mode
- Real Time Sample Rate
- Bright LCD Backlight
- Continuous Autoset
- RS232 Option Available



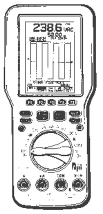
Includes:

Two test leads, two banana to BNC adapters, one DC-60 MHz X1 X10 passive oscilloscope probe, power supply and user manual.

VERTICAL	
Bandwidth	20 MHz with SP60B 10:1 Probe 10 MHz with Shielded Test Leads
Sample Rate Real Time Equivalent Time	25 Megasamples per Second up to 2 MHz 500 Megasamples per Second > 2 MHz
Sensitivity	50mV to 200V/div 1,2,5 Sequence
Coupling	AC, DC, GND
Resolution	8 bits
Accuracy	± 3% + 0.05 range/div
HORIZONTAL	
Modes	Single, Normal, Auto
Samples per Division	25
Accuracy	Equivalent Time: ± 0.5% + 0.08 time/div Real Time: ± 0.1% + 0.04 time/div
TRIGGER	
Source	Internal
Modes	Free Run, Normal
Sensitivity	Equivalent Time: 3 divisions or more Real Time: 2 divisions or more
TREND MODE	
Plot Time	30 sec/div to 1 hour/div
Plot Data Type	Max/Min Selectable
Memory	2 Screens
TRUE RMS DMM	
DCV (CH1, CH2) Basic Accuracy:	400mV, 4, 40, 400, 600V ± 0.5% + 5 digits
ACV (CH1, CH2) Basic Accuracy:	400mV, 4, 40, 400, 600V ± 1% + 10 digits
Frequency (CH1, CH2) Basic Accuracy:	1 Hz to 20 MHz ± 0.5% + 5 digits
Ohm (CH1 only) Basic Accuracy:	400, 4k, 40k, 400k, 4M, 20M ± 0.5% + 5 digits
Continuity (CH1 only)	Sounds < 0.1k ohm, ± 2% + 5 digits

Description	Digi-Key Part No.	Price Each	TPI Part No.
Handheld Oscilloscope 460	290-1460-ND	895.95	460
Carry Case for 460	290-1905-ND	39.95	A905
Software and RS232 Cable for 460	290-1404-ND	69.95	A404

4,000 Count True RMS DMM with 1MHz Waveform Capabilities



Versatile 6 Instruments-in-1

Features:

• Autoranging 4,000 Count\True RMS DMM • 1MHz • Trend Mode • Component Test • Logic Test • Frequency Counter • T-Base Button • Continuous Autoset • RS232 Option Available

Includes:

Insulated test leads with alligator clips, power supply, NiCad battery and user manual.

Oscilloscope	
Bandwidth	1 MHz
Sample Rate	20 Megasamples per Second Single Shot
Channels	Single
Glitch Capture	Yes
Trend Mode	Yes
Auto Set	Continuous
Waveform Memory	8 locations
Set-up Memory	8 locations
Viewing Area	160 x 240 pixels
Contrast	Adjustable
DMM	
True RMS	Yes
Basic DC Accuracy	0.3%
DCV / ACV	Up to 1,000 volts
DCA / ACA	Up to 10 amps
Ohms	Up to 40 Meg ohm
Capacitance	Up to 400uF
Frequency	Up to 2 MHz

Description	Digi-Key Part No.	Price Each	TPI Part No.
TPI 440 Hand-held Oscilloscope 440	290-1440-ND	299.95	TPI 440
Software for TPI 440	290-1075-ND	59.95	A402
Battery Charger for TPI 440	290-1441-ND	17.52	TPI A401
Carrying Case for TPI 440	290-1900-ND	19.95	TPI A900
Rubber Boot for TPI 440	290-1123-ND	19.95	A403

Differential Probe

290-1076-ND ADF25........**$272.95**

This high-voltage differential probe allows conventional grounded oscilloscopes to be used for display and measurement of multiple floating signals with high common mode voltages. IEC 1010 approved for safety.

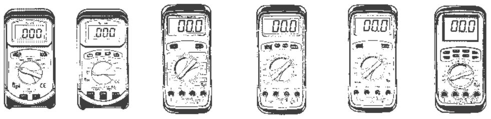
FUNCTION:

Bandwidth: DC - 25 MHz (-3dB) **Accuracy:** ± 2% **Risetime:** 14nS **Input Impedance:** 4M/10pf each side to ground, 8M/5pF between inputs **Input Voltage:** ±140VDC Inc.Pk AC@ **Maximum Differential:** 20:1 or 100V RMS, ± 1,400VDC Inc. Pk AC, 200:1 or 1,000V RMS **Output Voltage:** ± 7 minimum 2K load **Offset (typical):** <± 5mV -14°F to 74°C (-10°C to 40°C) **Common Mode:** ± 1,400VDC Inc. Pk AC, or 1,000V RMS **Noise (typical):** 1.5/2mV **Output Source Impedance:** 1 @ 1kHz. 8 @1 MHz **Operating Temperature:** -14°F to 74°C (-10°C to 40°C) **Power Requirements:** 4 AA cell or 6V main adapters: DC/600mA or DC/800mA **Input Leads:** 45 cm double insulated PVC terminated in 44 mm safety plugs

Test Leads Kits

Description	Digi-Key Part No.	Price Each	TPI Part No.
Deluxe Test Lead Kit IEC1010	290-1041-ND	35.00	TLS2000B
R/A Deluxe Test Lead Kit IEC1010	290-1042-ND	29.78	TLS2000RB
Economy Test Lead Kit IEC1010	290-1043-ND	17.50	TL1000B
R/A Economy Test Lead Kit IEC1010	290-1044-ND	17.50	TL1000RB
Test Lead Set STD	290-1125-ND	6.95	A040
Test Lead Set STD with Clips	290-1127-ND	9.95	A050
Test Lead Sprung Hook Red	290-1128-ND	5.75	123502R
Test Lead Sprung Hook Black	290-1129-ND	5.75	123502B
Lead 10 Ft. Red	290-1130-ND	10.00	123501R/10'
Lead 10 Ft. Black	290-1131-ND	10.00	123501B/10'
Lead 5 Ft. Red	290-1132-ND	9.00	123501R/5'
Lead 5 Ft. Black	290-1134-ND	9.00	123501B/5'

Digital Multimeters

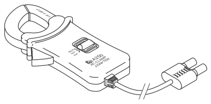


Includes: Batteries, Test Leads, Protective Boot, and Instruction Manual with 3-year Limited Warranty

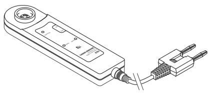
	120	126	133	153	163	283
Display Count	2,000	4,000	2,000	4,000	3,260	4,000
AC Volts	600	600	750	750	750	750
DC Volts	600	600	1,000	1,000	1,000	1,000
Basic DC Accuracy	0.5%	0.3%	0.5%	0.3%	0.5%	0.3%
AC/DC Amps	NA	400mA	10	10	10	10
True RMS	NA	NA	NA	NA	NA	Yes
Resistance	2KΩ	40MΩ	20MΩ	40MΩ	32.6MΩ	40MΩ
Capacitance	NA	NA	NA	NA	NA	10,000uF
Frequency	NA	NA	NA	NA	NA	200KHz
Analog Bar Graph	NA	NA	NA	NA	Yes	Yes
Auto Range	NA	Yes	NA	Yes	Yes	Yes
Data Hold	Yes	Yes	Yes	Yes	Yes	Yes
Min/Max	NA	Yes	NA	Yes	NA	Yes
Sleep Mode	NA	NA	NA	NA	NA	Yes
Auto Power Off	NA	Yes	NA	Yes	Yes	NA
RS232 (cable & software)	NA	NA	NA	NA	NA	Optional A108
Dimensions, Inch (with boot)	6 x 3 x 2	6 x 3 x 2	7.75 x 3.75 x 2.25	7.75 x 3.75 x 2.25	7.75 x 3.75 x 2.25	7.75 x 3.75 x 2.25

Description	Digi-Key Part No.	Price Each	TPI Part No.
Multi-Meters			
Pocket 3 Digit	290-1120-ND	28.31	TPI 120
Pocket Auto Range	290-1126-ND	59.95	TPI 126
3.5 Digit	290-1133-ND	51.71	TPI 133
4 Digit	290-1153-ND	70.83	TPI 153
4 Digit	290-1163-ND	109.95	TPI 163
4 Digit	290-1283-ND	159.95	TPI 183
Adapters for DMM			
Temp. Adapter w/probe, -40°F to +500°F (-40°C to +260°C)	290-1124-ND	44.95	A301
AC Clamp-On, 1mA/amp Output	280-1078-ND *NEW!*	44.95	A250
AC Clamp-On, 1mV/amp Output	280-1079-ND *NEW!*	52.95	A251
AC/DC Clamp-On	280-1080-ND *NEW!*	84.95	A256
CO Detector, 0.1 to 1999 ppm	280-1077-ND *NEW!*	169.95	A701
Accessories for DMM			
DMM Boot Hook for Std. size	290-1103-ND	8.70	TPI A103

A250, A251, A256
(0-400 Amps)



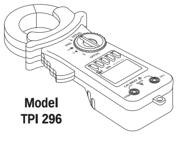
A701



Digital Clamp-On Meters

	293	296
Display Count	4,000	4,000
AC Volts	600	600
DC Volts	600	600
Basic DC Accuracy	0.75%	0.75%
AC Amps	700	700
DC Amps	NA	700
HDR Mode	NA	Yes
Resistance	40KΩ	40KΩ
Frequency	10KHz	10KHz
Analog Bar Graph	Yes	Yes
Auto Range	Yes	Yes
Clamp Opening Dimensions, Inch	1.5	1.5
Min/Max/Peak	Peak only	Yes
Dimensions (L" x W" x H")	9 x 3.25 x 1.75	9 x 3.25 x 1.75

Digital clamp-on meters are designed to measure electrical current without breaking the circuit. Carefully choose AC and DC requirements. True RMS capability and DMM requirements.



Model TPI 296

Features: • Meets CE, cUL, us 3111 safety standards • Diode Test • Continuity Buzzer • True RMS • Trim Mode • Peak Hold • Min/Max/Ave • Data Hold • Measures frequency of the current being measured while the bar graph display simultaneously indicates the current level. Sleep mode. 4 Digit LCD plus Bar Graph • Three Year Limited Warranty

Specifications: • Range DC: 40V-750V • Range AC: 40V-750V and 40A-700A • Resistance Range: 400-40KΩ • Frequency Range: **290-1293-ND (TPI 293):** 1KHz-10KHz. Auto range. **290-1296-ND (TPI 296):** -1KHz-10KHz. HDR mode at line voltage and 60Hz

Description	Digi-Key Part No.	Price Each	TPI Part No.
DMM Clamp 4 Digit	290-1293-ND	127.53	TPI 293
DMM Clamp 4 Digit	290-1296-ND	179.51	TPI 296

Test Leads and Accessories

Right angle end for Figures 1-5

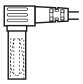


Fig. 1

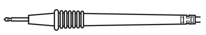


Fig. 2

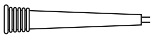


Fig. 3

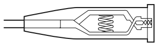


Fig. 4

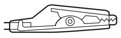


Fig. 5

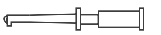


Fig. 6

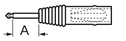


Fig.	Description	Digi-Key Part No.	Price Each 1	10
1	Test Lead Set Standard 46"	290-1059-ND	8.75	7.40
2	Test Lead Set Deluxe Extended	290-1060-ND	15.73	13.29
3	Test Lead Set Lg Clip 9" Pigtail	290-1061-ND	6.05	5.12
4	Test Lead Set Sm Clip 9" Pigtail	290-1062-ND	4.48	3.79
5	Probe Tip Red 5 Mini Clip With 9" Pigtail	290-1065-ND	6.73	5.69
5	Probe Tip Black 5 Mini Clip With 9" Pigtail	290-1066-ND	6.73	5.69
6	Probe Tip Set Short; Dimension A = .5"	290-1063-ND	6.50	5.50
6	Probe Tip Set Long; Dimension A = .024"	290-1064-ND	7.85	6.64
—	Kit Test Lead Set 7 Pair	290-1058-ND	29.95	—

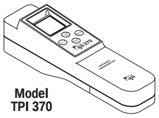
Infrared Non-Contact Thermometers

Handheld

Measure hard-to-reach, sensitive, or moving target temperatures.

Features: • On or off laser pointer • 0.1 resolution for best reading • Data hold function • Soft carrying pouch (370 excluded) • 8:1 distance to spot ratio • Large, easy-reading LCD • °C and °F selectable temperature • 9V battery included

Specifications: • Response Time: 500 milliseconds • Spectral Response: 7-14um • Operating Temperature: +32° to +120°F and 0° to +49°C • Accuracy @ +25°C and 0.95 Emissivity: ±2% of reading or ±3.5, whichever is greater above +30°F



Model TPI 370

Temperature Range	Laser Sighting	Digi-Key Part No.	Price Each	TPI Part No.
14°F to 500°F (-10°C to 260°C)	No	290-1370-ND	89.95	TPI 370
14°F to 500°F (-10°C to 260°C)	Yes	290-1371-ND	119.95	TPI 371
-58°F to 500°F (-50°C to 260°C)	Yes	290-1372-ND	129.95	TPI 372
14°F to 950°F (-10°C to 510°C)	Yes	290-1373-ND	124.95	TPI 373

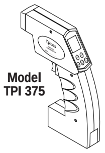
Gun Style

Two Instruments in one. Plug in optional K-type surface probe to convert non-contact to contact.

Non-contact and K-Thermocouple input

Features: • Laser Pointer • Record Function • Display Data Hold Function • Back Light • Trigger Switch • 8:1 Distance to Spot Ratio • °C and °F Selectable Temperature • Gun-type compact design • Operation Lock Function • 9V Battery and Soft Pouch Included

Specifications: • Response Time: 500mSec. • Spectral Response: 7-14um • Emissivity: 0.3 to 0.99 Adjustable • Ambient Operating Range: +32° to +120°F (0° to +49°C) • Display Resolution: 0.1°F and 0.1°C or 1°F and 1°C



Model TPI 375

Function	375	376	377
Temp Range:	0° to 950°F (18° to 510°C)	-58° to 950°F (-50° to 510°C)	0° to 1832°F (-18° to 1,000°C)
Accuracy at 73°F (23°C) CE = 0.95	30° to 950°F (-1° to 510°C) ±2% of reading or ±3.5°F (2°C) whichever is greater	30° to 950°F (-1° to 510°C) ±2% of reading or ±3.5°F (2°C) whichever is greater	30° to 950°F (-1° to 510°C) ±2% of reading or ±3.5°F (2°C) whichever is greater
Probes			
K-type Range	-40° to 2192°F (-40° to 1200°C)	-40° to 2192°F (-40° to 1200°C)	-40° to 2192°F (-40° to 1200°C)
K-type Accuracy	±0.5% of reading + 3°F (-16°C)	±0.5% of reading + 3°F (-16°C)	±0.5% of reading + 3°F (-16°C)

Description	Digi-Key Part No.	Price Each	TPI Part No.
Thermometer, Gun, Laser Sight	290-1375-ND 290-1376-ND 290-1377-ND	189.95 199.95 189.95	TPI 375 TPI 376 TPI 377

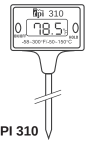
Pocket Digital Contact Thermometers

Range: -58° to +300°F or -50° to +150°C **Resolution:** 0.1°F or C **Accuracy:** ±2°F or ±1°C **Sampling Time:** 1.5 seconds **Battery:** 1.5V button

Features:

TPI 310: • Reversible LCD head • Turns for best viewing • Easy-to-read LCD • Data Hold for hard to reach areas • Auto power off

TPI 312: • Water resistant for use in damp or wet environments • Quick response • Easy insertion into "Petes" plugs with smallest diameter (3.1 mm) stem in its class • Data Hold for hard to reach areas • Auto power off



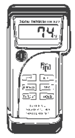
TPI 310

TPI 312

290-1310-ND TPI 310 ...... **$12.95**
290-1312-ND TPI 312 ...... **$15.95**

K and K/J Contact Thermometers

Water-resistant testers accept K-type and J-type thermocouple probes. Two-channel version takes simultaneous readings with T1/T2 selection. Protective Boot (A303) included. **Size:** 1.6" x 6" x 3" **Weight:** 278g w/boot



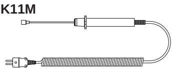
Model 342/C1

290-1340-ND 340/C1 .... **$74.95**
290-1342-ND 342/C1 .... **$99.95**

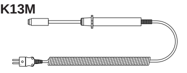
	340/C1	342/C1
Min/Max Record	NA	Yes
Selectable Res.	NA	Automatic
°C/°F Selectable	NA	Yes
T1, T2, T Select	NA	Yes (dual inputs)
Auto Off	NA	Yes (after 20 min.)
Range K-type	-58° to 1832°F -50° to 1000°F	-328° to 2,462°F -200° to 1,350°C
Range J-type	NA	-328° to 1,832°F -200° to 1,000°C
Basic Accuracy	±0.5% + 5 digits	±0.3%
Battery	AAA	9V

Thermocouple Temperature Probes

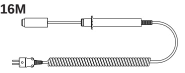
CK11M



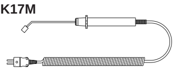
CK13M



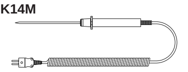
CK16M



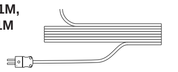
CK17M



FK14M



GK11M, GJ11M



Model CK11M: • K-Type surface probe • Ribbon sensor to contact uneven surfaces • 4 inch stem, 4 inch handle for easy control and safe clearances • 3 foot coiled lead for durability and long reach • Exposed junction for fast response

Model CK13M: • Heavy duty K-Type surface probe • Spring sensor to maintain pressure on surface being measured • Ceramic insert to help hold heat near sensor for accurate measurements • 4 inch stem, 4 inch handle for easy control and safe clearances • 3 foot coiled lead for durability and long reach • Exposed junction for fast response

Model CK16M: • Heavy duty K-Type surface probe • Spring sensor to maintain pressure on surface being measured • Ceramic insert to help hold heat near sensor for accurate measurements • 8 inch stem and 4 inch handle for measurements where longer reaches are required • 3 foot coiled lead for durability and long reach • Exposed junction for fast response

Model CK17M: • K-Type surface probe • Ribbon sensor to contact uneven surfaces • 45 degree angle stem to measure hard to reach surfaces • 3 foot coiled lead for durability and long reach • Exposed junction for fast response

Model FK14M: • K-Type general purpose probe • 8 inch sealed stem for immersion into liquids, gels, and semi-solids • 3 foot coiled lead for durability and long reach • Stem sealed to protect sensing area

Model GK11M and Model GJ11M: • Standard K-Type and J-Type thermocouple probes • 4 foot fiberglass covered lead • Exposed junction for fast response

290-1906-ND CK11M **$39.95**
290-1907-ND CK13M **$42.95**
290-1908-ND CK16M **$29.95**
290-1909-ND CK17M **$39.95**
290-1910-ND FK14M............................ **$29.95**
290-1911-ND GK11M (K-Type) **$14.95**
290-1912-ND GJ11M (J-Type)................... **$16.95**

STACO ENERGY PRODUCTS CO.

Variable AC Transformers

Cased plug-in models feature a ventilated steel case, input line cord and plug, fused NEMA rated output receptacle, and an illuminated on/off switch. They are connected for output voltage increase with a clockwise rotation, and the dials are graduated from 0-100% of the voltage setting.

Fig. 1

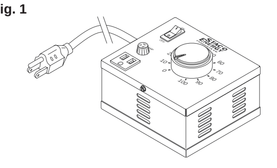


Fig. 2

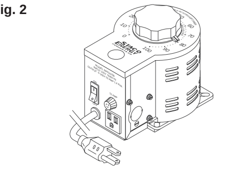


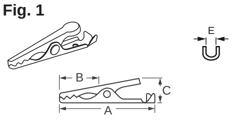
Fig.	Volts	Input Hertz	Input Volts	Output Constant Current Load Max. (A)	Output Constant Current Load Max. (KVA)	Net Weight Lbs.	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 10	Price Each 15	Staco Part No.
1	120	60	0-132	2.5	.33	3	452-1000-ND	185.40	173.04	166.86	160.68	3PN221B
	120	50/60	0-140	5.0*	.70	7 3/4	452-1001-ND	200.70	187.32	180.63	173.94	3PN501B
2	120	50/60	0-140	10*	1.4	10 1/4	452-1003-ND	212.40	198.24	191.16	184.08	3PN1010B
	120	50/60	0-140	10*	1.4	10 1/4	452-1004-ND†	359.10	335.16	323.19	311.22	3PN1010BV
	240	50/60	0-280	3.5*	.98	10 1/4	452-1005-ND	254.70	237.72	229.23	220.74	3PN1020B

* Unit is fused for the constant current rating at the factory. † With Voltmeter

MUELLER

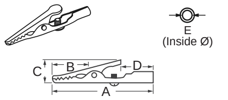
Test Equipment - Clips

Fig. 1



Model BU-30/BU-30C shown

Fig. 2



Model BU-60S/BU-60CS shown

Fig. 3

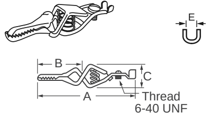
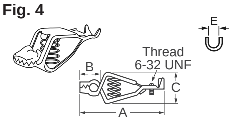


Fig. 4



Model BU-48/BU-48C shown

Fig. 5

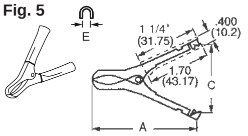


Fig	Description	Dimensions – Inch (mm) A	B	C	D	E	Jaw Opening Inch (mm)	Current Rating	Material	Connection Type	Digi-Key Part No.	Price Each	Mueller Part No.
1	Mini Alligator Clip	1-3/32 (27.78)	7/16 (11.11)	5/16 (7.94)	—	3/32 (2.38)	3/16 (4.8)	5A	Steel	Solder/Crimp	314-1010-ND	.31	BU-30
	Mini Alligator Clip	1-3/32 (27.78)	7/16 (11.11)	5/16 (7.94)	—	3/32 (2.38)	3/16 (4.8)	5A	Copper	Solder/Crimp	314-1012-ND	.39	BU-30C
	Micro Alligator Clip	1-3/32 (27.78)	3/8 (9.52)	5/16 (7.94)	—	3/32 (2.38)	7/32 (5.6)	5A	Steel	Solder/Crimp	314-1017-ND	.59	BU-34
	Micro Alligator Clip	1-3/32 (27.78)	3/8 (9.52)	5/16 (7.94)	—	3/32 (2.38)	7/32 (5.6)	5A	Copper	Solder/Crimp	314-1018-ND	.61	BU-34C
2	Mini Alligator Clip with Barrel	1-1/4" (31.75)	7/16 (11.11)	5/16 (7.94)	1/4 (6.35)	1/8 (3.17)	3/16 (4.8)	5A	Steel	Solder/Crimp	314-1011-ND	.31	BU-30BL
	Alligator Clip with Barrel	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Steel	Solder/Crimp	314-1033-ND	.40	BU-60
	Alligator Clip with Barrel and Screw	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Copper	6/40Screw	314-1034-ND	.79	BU-60CS
	Alligator Clip with Barrel and Screw	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Steel	6/40Screw	314-1035-ND	.48	BU-60S
	Alligator Clip with Barrel	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Stainless Steel	Solder/Crimp	314-1036-ND	1.16	BU-60X
3	Crocodile Clip	2-1/8 (53.97)	15/16 (23.81)	1/2 (12.7)	—	9/64 (3.57)	5/16 (7.9)	5A	Steel	Crimp/6-40 Screw	314-1039-ND	.58	BU-85
	Crocodile Clip	2-1/8 (53.97)	15/16 (23.81)	1/2 (12.7)	—	9/64 (3.57)	5/16 (7.9)	10A	Copper	Crimp/6-40 Screw	314-1040-ND	1.06	BU-85C
4	Heavy Duty Clip	2-27/32 (72.23)	7/16 (11.11)	1-1/8 (28.57)	—	1/4 (6.35)	3/4 (19)	25	Steel	Crimp/8-32 Screw	314-1001-ND	.92	BU-24APN
	Automotive Clip	3 (76.2)	21/32 (16.67)	15/16 (23.81)	—	9/32 (7.15)	3/4 (19)	40	Steel	Crimp/8-32 Screw	314-1002-ND	1.13	BU-25
	Automotive Clip	3 (76.2)	21/32 (16.67)	15/16 (23.81)	—	9/32 (7.15)	3/4 (19)	75	Copper	Crimp/8-32 Screw	314-1003-ND	2.03	BU-25C
	General Purpose Clip	2-7/16 (61.91)	17/32 (13.49)	11/16 (17.46)	—	3/16 (4.76)	5/8 (16)	20	Steel	Crimp/6-32 Screw	314-1006-ND	.84	BU-27
	General Purpose Clip	2-7/16 (61.91)	17/32 (13.49)	11/16 (17.46)	—	3/16 (4.76)	5/8 (16)	40	Copper	Crimp/6-32 Screw	314-1007-ND	1.16	BU-27C
	Pee-Wee Clip	1-17/32 (38.89)	1/4 (6.35)	15/32 (11.91)	—	9/64 (3.57)	5/16 (7.9)	5	Steel	Crimp/6-40 Screw	314-1021-ND	.57	BU-45
	Pee-Wee Clip	1-17/32 (38.89)	1/4 (6.35)	15/32 (11.91)	—	9/64 (3.57)	5/16 (7.9)	10	Copper	Crimp/6-40 Screw	314-1022-ND	.82	BU-45C
	Automotive Analyzer Clip	2 (50.80)	3/8 (9.52)	5/8 (15.88)	—	3/16 (4.76)	1/2 (12.7)	10	Steel	Crimp/6-32 Screw	314-1029-ND	.73	BU-48B
	Automotive Analyzer Clip	2 (50.80)	3/8 (9.52)	5/8 (15.88)	—	3/16 (4.76)	1/2 (12.7)	20	Copper	Crimp/6-32 Screw	314-1030-ND	.90	BU-48C
5	Miniature Plier-Type Clip, Black	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	50	Steel	Crimp/Solder	314-1023-ND	1.14	BU-46A-0
	Miniature Plier-Type Clip, Red	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	50	Steel	Crimp/Solder	314-1024-ND	1.14	BU-46A-2
	Miniature Plier-Type Clip, Black	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	75	Copper	Crimp/Solder	314-1025-ND	1.83	BU-46C-0
	Miniature Plier-Type Clip, Red	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	75	Copper	Crimp/Solder	314-1026-ND	1.83	BU-46C-2

I

Insulators

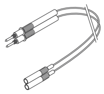
Description	Color	Use with Series	Digi-Key Part No.	Price Each	Mueller Part No.
Protective Vinyl Insulator	Black Red	BU-24APN/ 25/25C	314-1004-ND 314-1005-ND	1.06 1.06	BU-26-0 BU-26-2
Flexible Vinyl Insulator	Black Red	BU-27/27C	314-1008-ND 314-1009-ND	.68 .68	BU-29-0 BU-29-2
Tough, Flexible Vinyl Insulator	Black Red	BU-30BL	314-1013-ND 314-1014-ND	.23 .23	BU-31-0 BU-31-2
Skin-tight, Flexible Vinyl Insulator	Black Red	BU-30/30C	314-1015-ND 314-1016-ND	.20 .20	BU-32-0 BU-32-2

Description	Color	Use with Series	Digi-Key Part No.	Price Each	Mueller Part No.
Skin-tight, Flexible Vinyl Insulator	Black Red	BU-34/34C	314-1019-ND 314-1020-ND	.20 .20	BU-36-0 BU-36-2
Durable, Flexible Vinyl Insulator	Black Red	BU-45/45C	314-1027-ND 314-1028-ND	.31 .31	BU-47-0 BU-47-2
Durable, Flexible Vinyl Insulator	Black Red	BU-48B/48C	314-1031-ND 314-1032-ND	.61 .61	BU-49-0 BU-49-2
Tough, Flexible Vinyl Insulator	Black Red	BU-60/60CS/ 60/S/60X	314-1037-ND 314-1038-ND	.23 .23	BU-62-0 BU-62-2
Tough, Flexible Vinyl Insulator	Black Red	BU-85/85C	314-1041-ND 314-1042-ND	.39 .39	BU-87-0 BU-87-2

MUELLER

Test Lead and Prod Kits

All kits feature Mueller's IEC 1010 Compliant test leads and accessories.



Kit 400001 - General Purpose Kit and
Kit 400005 - METERMATE™ XL General Purpose Kit
Kit includes: • Insulated test lead prod-to-banana, 1 red, 1 black (1000V) • Insulated plunger-hook, 1 red, 1 black (1000V) • Insulated banana jack to standard banana plug, 1 red, 1 black (1000V)* • Mueller's most popular threaded alligator clip with insulators, 1 red, 1 black*

Kit 400004 - METERMATE™ XL Automotive Kit
Kit includes: • Flexible silicone test lead banana-to-banana, 1 red, 1 black (1000V) • Shrouded double banana plug, 60" (1.52M), twisted pair cable* • Insulated banana jack to standard banana plug, 1 red, 1 black (1000V)* • Insulated right angle plunger clamp clip with flexible shaft, 1 red, 1 black (1000V) • Insulated plug-on test prod with cage spring banana tip, 1 red, 1 black (1000V)* • Insulated banana coupler, 1 red, 1 black (1000V) • Insulated plug-on shrouded alligator, 1 red, 1 black (1000V) Large durable briefcase

Kit 400002 - Electrical Kit and Kit 400006 - METERMATE™ XL Electrical Kit
Kit includes: • Flexible silicone test lead 60" (1.52 meter) long, 1 red, 1 black (1000V) • Insulated plug-on shrouded alligator, 1 red, 1 black (1000V) • Insulated right angle plunger jaw clip, 1 red, 1 black (1000V) • Insulated spade lug, 1 red, 1 black* • Insulated plug-on test prod with cage spring banana tip, 1 red, 1 black (1000V)* • Insulated banana jack to standard banana plug, 1 red, 1 black (1000V)*

Kit 400003 - Electronic Kit and Kit 400007 - METERMATE™ XL Electronic Kit
Kit includes: • Oscilloscope probe (600V) Manufactured in compliance with MIL-1-45208A* • Scope accessory Kit: 6" ground lead with Mueller clip and insulator, scope probe plunger clip, BNC male-to-probe tip, female adapter, spare probe tip, adjustment screwdriver* • Flexible silicone test lead, 1 red, 1 black (1000V) • Variable length test prod lead 48" (1.22M) to shrouded banana, 1 red, 1 black (1000V) • Insulated plug-on test prod, 1 red, 1 black (1000V)* • Insulated right angle plunger jaw clip, 1 red, 1 black (1000V) • Insulated right angle plunger hook clip, 1 red, 1 black (1000V) • Female BNC-to-double banana plug adapter* • Insulated banana jack to standard banana plug, 1 red, 1 black (1000V)* • Insulated spade lug, 1 red, 1 black *

Description	Digi-Key Part No.	Price Each	Mueller Part No.
Test Leads Kits			
General Purpose Kit with heavy-duty clear vinyl pouch	314-1043-ND	19.12	400001
Metermate XL General Purpose Kit with large durable briefcase	314-1047-ND	86.18	400005
Metermate XL Automotive Kit with large durable briefcase	314-1046-ND	162.16	400004
Deluxe Electrical Kit with tri-fold pouch	314-1044-ND	73.52	400002
Metermate XL Electrical Kit with large durable briefcase	314-1048-ND	73.31	400006
Electronics Kit with heavy-duty clear vinyl pouch	314-1045-ND	100.00	400003
Metermate XL Electronic Kit with large durable briefcase	314-1049-ND	171.33	400007
Test Prod Pairs and Kits			
Unshrouded Right Angle Banana Plug Kit	314-1050-ND	10.08	110003
Shrouded Right Angle Banana Plug Pair of Leads	314-1055-ND	7.84	110009
Shrouded Right Angle Banana Plug Kit	314-1051-ND	10.08	110004
Unshrouded Banana Plug Pair of Leads	314-1056-ND	7.20	110011
Unshrouded Banana Plug Kit	314-1052-ND	10.08	110005
Shrouded Banana Plug Pair of Leads	314-1054-ND	7.36	110007
Shrouded Banana Plug Kit	314-1053-ND	10.08	110006
Unshrouded Banana Plug Pair of Leads	314-1057-ND	7.84	110012

* IEC 1010 standard and Ⓤ does not apply

E-Z-HOOK Electronic Test Accessories

Dim: Inches

Fig. 1 Double Hook, .025" Spacing

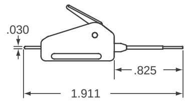


Fig. 2 Pico-Hook

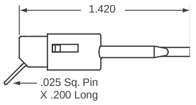


Fig. 3 Micro-Hook

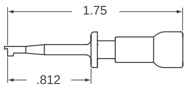


Fig. 4 Double Micro-Hook

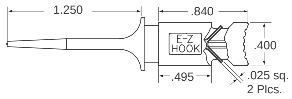
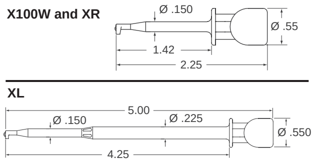


Fig. 5 Mini-Hook



X100W and XR

XL

Fig. 6 Macro-Hook

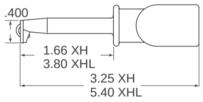


Fig. 7 Macro-Hook, Insulation Piercing

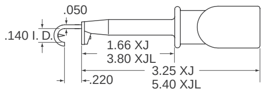
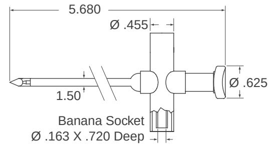


Fig. 8 Insulation Piercing



Hooks

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	.006" Dia. Wire Double Hook, .025" Spacing	Black	461-1000-ND	15.44	13.95	12.37	X2015 BLK
		Red	461-1001-ND	15.44	13.95	12.37	X2015 RED
2	Pico-Hook with .025" Sq. Pin, Gold Plated	Black	461-1002-ND	3.05	2.76	2.45	P25 BLK
		Red	461-1003-ND	3.05	2.76	2.45	P25 RED
3	Micro-Hook Test Connector	Black	461-1004-ND	1.74	1.58	1.40	XM BLK
		Red	461-1005-ND	1.74	1.58	1.40	XM RED
		Set/10	461-1006-ND	17.43	15.75	13.97	XM-S
	Micro-Hook with .025" Sq. Pin	Black	461-1007-ND	3.04	2.75	2.44	XM25 BLK
		Red	461-1008-ND	3.04	2.75	2.44	XM25 RED
4	E-Z-Micro Double Gripper	Black	461-1009-ND	2.52	2.28	2.03	XKM BLK
		Red	461-1010-ND	2.52	2.28	2.03	XKM RED
		Gray	461-1011-ND	2.52	2.28	2.03	XKM GRAY
		Set/10	461-1012-ND	25.23	22.80	20.22	XKM-S
5	Mini-Hook Test Connector	Black	461-1013-ND	1.64	1.49	1.32	X100W BLK
		Red	461-1014-ND	1.64	1.49	1.32	X100W RED
		Set/10	461-1015-ND	16.58	14.99	13.29	X100W-S
	Mini-Hook Test Connector, Extended	Black	461-1016-ND	3.32	3.00	2.66	XL1 BLK
		Red	461-1017-ND	3.32	3.00	2.66	XL1 RED
	Mini-Hook XR, Heavy Duty Hook	Black	461-1018-ND	1.98	1.79	1.59	XR BLK
		Red	461-1019-ND	1.98	1.79	1.59	XR RED
6	Macro-Hook Test Connector	Black	461-1020-ND	5.21	4.71	4.18	XH BLK
		Red	461-1021-ND	5.21	4.71	4.18	XH RED
	Macro-Hook Connector, Extended	Black	461-1022-ND	5.54	5.01	4.45	XHL BLK
		Red	461-1023-ND	5.54	5.01	4.45	XHL RED
7	Macro-Hook Piercing Connector	Black	461-1024-ND	6.24	5.64	5.01	XJ BLK
		Red	461-1025-ND	6.24	5.64	5.01	XJ RED
	Macro-Hook Piercing Connector, Extended	Black	461-1026-ND	6.94	6.27	5.56	XJL BLK
		Red	461-1027-ND	6.94	6.27	5.56	XJL RED
8	Insulation Piercing Test Connector	Black	461-1028-ND	11.16	10.08	8.94	XEL BLK
		Red	461-1029-ND	11.16	10.08	8.94	XEL RED

Test Leads

Tinned copper with flexible PVC insulation.

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White) (**Set/2:** 1 each of: Black and Red)

Fig.	Description	AWG	Color	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
2	E-Z Pico-Hook to Pico-Hook	28 (19 x 40)	Black	12	461-1042-ND	5.00	4.52	4.01	P704-12 BLK
			Red	12	461-1043-ND	5.00	4.52	4.01	P704-12 RED
3	Micro-Hook to Micro-Hook	22 (65 x 40)	Black	12	461-1036-ND	4.30	3.89	3.45	204XM-12 BLK
			Red	12	461-1037-ND	4.30	3.89	3.45	204XM-12 RED
			Set/10	12	461-1038-ND	42.99	38.85	34.45	204XM-12-S
			Black	24	461-1039-ND	4.30	3.89	3.45	204XM-24 BLK
			Red	24	461-1040-ND	4.30	3.89	3.45	204XM-24 RED
			Set/10	24	461-1041-ND	42.99	38.85	34.45	204XM-24-S
	Micro-Hook to Std. Banana Plug	22 (65 x 40)	Black	18	461-1044-ND	3.95	3.57	3.17	BXM-18 BLK
			Red	18	461-1045-ND	3.95	3.57	3.17	BXM-18 RED
			Set/2	18	461-1046-ND	7.90	7.14	6.34	BXM-18 R/B
			Black	36	461-1047-ND	3.95	3.57	3.17	BXM-BLK
			Red	36	461-1048-ND	3.95	3.57	3.17	BXM-RED
			Set/2	36	461-1049-ND	7.90	7.14	6.34	BXM-R/B
5	Mini-Hook to Mini-Hook	22 (65 x 40)	Black	12	461-1030-ND	4.03	3.65	3.24	204-12W BLK
			Red	12	461-1031-ND	4.03	3.65	3.24	204-12W RED
			Set/10	12	461-1032-ND	40.34	36.45	32.32	204-12W-S
			Black	24	461-1033-ND	4.03	3.65	3.24	204-24W BLK
			Red	24	461-1034-ND	4.03	3.65	3.24	204-24W RED
			Set/10	24	461-1035-ND	40.34	36.45	32.32	204-24W-S
	Mini-Hook to Std. Banana Plug	22 (65 x 40)	Black	18	461-1050-ND	3.87	3.50	3.10	BX1W-18 BLK
			Red	18	461-1051-ND	3.87	3.50	3.10	BX1W-18 RED
			Set/2	18	461-1052-ND	7.74	6.99	6.20	BX1W-18 R/B
			Black	36	461-1053-ND	3.87	3.50	3.10	BX1W-BLK
			Red	36	461-1054-ND	3.87	3.50	3.10	BX1W-RED
			Set/2	36	461-1055-ND	7.74	6.99	6.20	BX1W-R/B
	Mini-Hook to Stacking Banana Plug	18 (65 x 36)	Black	18	461-1056-ND	5.33	4.82	4.27	601W-18 BLK
			Red	18	461-1057-ND	5.33	4.82	4.27	601W-18 RED
			Set/2	18	461-1058-ND	10.66	9.63	8.54	601W-18 R/B
			Black	36	461-1059-ND	5.33	4.82	4.27	601W-36 BLK
			Red	36	461-1060-ND	5.33	4.82	4.27	601W-36 RED
			Set/2	36	461-1061-ND	10.66	9.63	8.54	601W-36 R/B
	Mini-Hook to Shrouded Right Angle Standard Banana Plug	18 (65 x 36)	Black	36	461-1062-ND	5.40	4.88	4.33	633W-36 BLK
			Red	36	461-1063-ND	5.40	4.88	4.33	633W-36 RED
			Set/2	36	461-1064-ND	10.79	9.75	8.65	633W-36 R/B
			Black	48	461-1065-ND	6.26	5.66	5.02	633W-48 BLK
			Red	48	461-1066-ND	6.26	5.66	5.02	633W-48 RED
			Set/2	48	461-1067-ND	12.52	11.31	10.03	633W-48 R/B

Patch Cords

Tinned copper with flexible PVC insulation.

Description	AWG	Color	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
Std. Banana Plug to Std. Banana Plug	22 (65 x 40)	Black	18	461-1068-ND	3.59	3.24	2.88	9105-18 BLK
		Red	18	461-1069-ND	3.59	3.24	2.88	9105-18 RED
		Black	36	461-1070-ND	3.59	3.24	2.88	9105-36 BLK
		Red	36	461-1071-ND	3.59	3.24	2.88	9105-36 RED
Stacking Banana Plug with Heavy Wire to Stacking Banana Plug	18 (65 x 36)	Black	18	461-1072-ND	6.03	5.45	4.83	9111-18 BLK
		Red	18	461-1073-ND	6.03	5.45	4.83	9111-18 RED
		Black	36	461-1074-ND	6.03	5.45	4.83	9111-36 BLK
		Red	36	461-1075-ND	6.03	5.45	4.83	9111-36 RED
.030" Dia. Socket to .030" Dia. Socket	22 (65 x 40)	Black	12	461-1076-ND	4.00	3.62	3.21	9860-12 BLK
		Red	12	461-1077-ND	4.00	3.62	3.21	9860-12 RED
		Black	24	461-1078-ND	4.00	3.62	3.21	9860-24 BLK
		Red	24	461-1079-ND	4.00	3.62	3.21	9860-24 RED
.030" Dia. Socket to Std. Banana Plug	22 (65 x 40)	Black	24	461-1080-ND	3.74	3.38	3.00	9861-24 BLK
		Red	24	461-1081-ND	3.74	3.38	3.00	9861-24 RED
.030" Dia. Socket to .080" Pin Plug	22 (65 x 40)	Black	24	461-1082-ND	3.74	3.38	3.00	9862-24 BLK
		Red	24	461-1083-ND	3.74	3.38	3.00	9862-24 RED
.030" Dia. Socket to Std. Banana Socket	22 (65 x 40)	Black	24	461-1084-ND	4.22	3.81	3.38	9863-24 BLK
		Red	24	461-1085-ND	4.22	3.81	3.38	9863-24 RED
.030" Dia. Socket to Mini Alligator Clip	22 (65 x 40)	Black	24	461-1086-ND	3.69	3.33	2.96	9864-24 BLK
		Red	24	461-1087-ND	3.69	3.33	2.96	9864-24 RED
.030" Dia. Socket to .080" Stacking Pin Plug	22 (65 x 40)	Black	24	461-1088-ND	6.94	6.27	5.56	9866-24 BLK
		Red	24	461-1089-ND	6.94	6.27	5.56	9866-24 RED
.030" Dia. Socket to Stacking Banana Plug	22 (65 x 40)	Black	24	461-1090-ND	4.80	4.34	3.85	9867-24 BLK
		Red	24	461-1091-ND	4.80	4.34	3.85	9867-24 RED
.030" Dia. Socket to Std. Alligator Clip	22 (65 x 40)	Black	24	461-1092-ND	3.88	3.51	3.12	9868-24 BLK
		Red	24	461-1093-ND	3.88	3.51	3.12	9868-24 RED
.025" to .025" Square Socket	22 (65 x 40)	Black	12	461-1094-ND	3.37	3.05	2.70	9110-12 BLK
		Red	12	461-1095-ND	3.37	3.05	2.70	9110-12 RED
		Black	24	461-1096-ND	3.37	3.05	2.70	9110-24 BLK
		Red	24	461-1097-ND	3.37	3.05	2.70	9110-24 RED
.025" Sq. Socket to Std. Banana Socket	22 (65 x 40)	Black	24	461-1098-ND	3.83	3.47	3.08	9163-24 BLK
		Red	24	461-1099-ND	3.83	3.47	3.08	9163-24 RED
.025" Sq. Socket to Std. Banana Plug	22 (65 x 40)	Black	24	461-1100-ND	3.59	3.24	2.88	9166-24 BLK
		Red	24	461-1101-ND	3.59	3.24	2.88	9166-24 RED
.025" Sq. Socket to .080" Pin Plug	22 (65 x 40)	Black	24	461-1102-ND	3.45	3.12	2.77	9167-24 BLK
		Red	24	461-1103-ND	3.45	3.12	2.77	9167-24 RED
.025" Sq. Socket to Stacking Banana Plug	22 (65 x 40)	Black	24	461-1104-ND	3.75	3.39	3.01	9169-24 BLK
		Red	24	461-1105-ND	3.75	3.39	3.01	9169-24 RED
.025" Sq. Socket to .080" Stacking Pin Plug	22 (65 x 40)	Black	24	461-1106-ND	5.89	5.33	4.73	9171-24 BLK
		Red	24	461-1107-ND	5.89	5.33	4.73	9171-24 RED
.025" Sq. Socket to Std. Alligator Clip	22 (65 x 40)	Black	24	461-1108-ND	3.37	3.05	2.70	9172-24 BLK
		Red	24	461-1109-ND	3.37	3.05	2.70	9172-24 RED
.025" Sq. Socket to Mini Alligator Clip	22 (65 x 40)	Black	24	461-1110-ND	3.37	3.05	2.70	9173-24 BLK
		Red	24	461-1111-ND	3.37	3.05	2.70	9173-24 RED

Flexible Test Lead Wires

Features:
- PVC Insulated • 100 Feet Length
- Temperature: +105°C (200 Series: 60°C UL) • Tinned copper

Description	AWG	Insulation Thickness (Inches)	WV DC	Nom. O.D. (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
200 Series	22 (65 x 40)	.018	1000 (300UL)	.070	461-1114-ND	29.47	26.63	23.61	9504-100FT BLK
					461-1115-ND	29.47	26.63	23.61	9504-100FT RED
500 Series	20 (105 x 40)	.020	1000	.080	461-1116-ND	32.37	29.25	25.94	9505-100FT BLK
					461-1117-ND	32.37	29.25	25.94	9505-100FT RED
600 Series	18 (65 x 36)	.045	5000	.144	461-1118-ND	37.35	33.75	29.93	9506-100FT BLK
					461-1119-ND	37.35	33.75	29.93	9506-100FT RED
700 Series	28 (19 x 40)	.015	600	.047	461-1112-ND	19.92	18.00	15.96	9501-100FT BLK
					461-1113-ND	19.92	18.00	15.96	9501-100FT RED

CUI INC Alligator Clips

Fig. 1

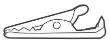


Fig. 2

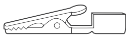


Fig. 3
Large with Screw Connector

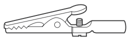


Fig. 4
Small with Solder Connector

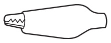


Fig. 5
X-Large Barrel Type with Solder Connector

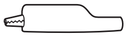


Fig. 6

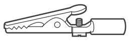
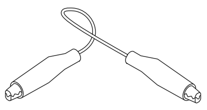


Fig.	Description	Color	Size	Digi-Key Part No.	Price Each 1	10	100
1	Without Cover	—	27mm	CP-2400-ND	.36	.30	.23
1	Without Cover	—	35mm	CP-2401-ND	.36	.30	.23
1	Without Cover	—	44mm	CP-2402-ND	.36	.30	.23
2	Without Cover	—	50mm	CP-2403-ND	.40	.33	.25
3	With Wire Terminals	—	50mm	CP-2404-ND	.44	.36	.28
1	With Screw	—	44mm	CP-2405-ND	.44	.36	.28
4	With Cover	Black	27mm	CP-2406-ND	.44	.36	.28
4	With Cover	Red	27mm	CP-2407-ND	.44	.36	.28
5	With Cover	Black	35mm	CP-2408-ND	.44	.36	.28
	With Cover	Red	35mm	CP-2409-ND	.44	.36	.28
	With Cover	Black	44mm	CP-2410-ND	.52	.43	.33
	With Cover	Red	44mm	CP-2411-ND	.52	.43	.33
	With Screw & Cover	Black	44mm	CP-2412-ND	.60	.49	.38
	With Screw & Cover	Red	44mm	CP-2413-ND	.60	.49	.38
6	With Handle	Black	50mm	CP-2414-ND	.52	.43	.33
		Red		CP-2415-ND	.52	.43	.33

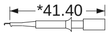
GC ELECTRONICS Jumper Wire Test Leads



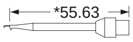
Handy test leads with insulated alligator clips attached to each end. Each package contains black, red, white, green and yellow jumpers.

Description	Digi-Key Part No.	Price
Standard Test Leads, 2 Each, 15" (38.10cm) long 27 AWG wires (10 Pkg.)	GC396-ND	6.44
Heavy Duty Test Leads, 1 Each, 22" (55.88cm) long 21 AWG wires (5 Pkg.)	GC397-ND	6.91

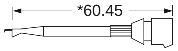
3M Electronic Specialty Products Probe-It



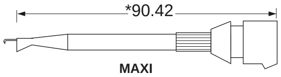
MICRO



MINI



STANDARD



MAXI

Specifications:

Contact: Phosphor bronze. **Body:** Nylon.

3M new series of Probe-It™ plunger-actuated clips make test connections to individual component leads faster and easier. Simply press cap to extend the hook contact, place on component lead or wire under test, and release for hands-free troubleshooting and circuit testing.

When removed from the lead the hook contact retracts into the plastic tip to minimize the possibility of shorting components.

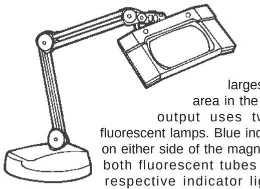
Description	Color	Digi-Key Part No.	Price / Pkg.
Micro Probe-It*	Red Black Blue Green Yellow White	923830-RD-ND 923830-BK-ND 923830-BU-ND 923830-GN-ND 923830-YL-ND 923830-WT-ND	8.04
Mini Probe-It*	Red Black Blue Green Yellow White	923835-RD-ND 923835-BK-ND 923835-BU-ND 923835-GN-ND 923835-YL-ND 923835-WT-ND	7.76
Standard Probe-It	Red Black	923840-RD-ND 923840-BK-ND	10.76
Maxi Probe-It*	Red Black	923845-RD-ND 923845-BK-ND	9.30
Micro Probe-It Assort. †	1 of each	923848-ND	10.95
Mini Probe-It Assort. †	1 of each	923850-ND	11.39

* 2 per package † 6 per package

LUXO

LAMPS & ACCESSORIES

Wave + Plus Series Magnifiers



3.5-DIOPTER LENS

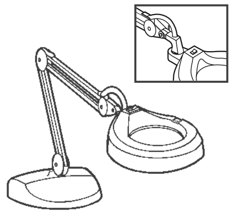
The Luxo Wide Angle Viewing Enlargement system with stadium shaped lens offers the largest distortion-free viewing area in the industry. Improved light output uses two 13-watt compact fluorescent lamps. Blue indicator lights are located on either side of the magnifier head. When one or both fluorescent tubes are in operation, the respective indicator light(s) is illuminated. Magnification 3/4X: Focal length: 13" (33.02cm); viewing area: 6 3/4" (17.15cm). ABS molded housing. Independently switched, energy-efficient, long-life compact fluorescent lamps offer both shadow-free dual light two-dimensional and single light three-dimensional viewing. UL listed (13W PL Compact Bulb)

Arm Inch (cm)	Mount	Digi-Key Part No.	Price Each	Luxo Part No.
45 (114.30) K	Clamp Bracket	L845LG-ND	428.31	17845LG
30 (76.20) K	Weighted Base	L847LG-ND	505.31	17847LG
45 (114.30)K	Clamp Bracket	L841LG-ND	620.81	17841LG
30 (76.20)K	Clamp Bracket	L842LG-ND	620.81	17842LG
30 (76.20)K	Weighted Base	L843LG-ND	697.81	17843LG
45 (114.30)K	Clamp Bracket	L900BK-ND	659.31	17900BK
30 (76.20)K	Clamp Bracket	L902BK-ND	659.31	17902BK
30 (76.20)K	Weighted Base	L904BK-ND	731.50	17904BK

Replacement Bulbs

Description	Digi-Key Part No.	Price Each	Luxo Part No.
22 Watt T-9 Bulb for KFM/LC/FM Series	L540-ND	16.36	31640
15 Watt T-8 Bulb for FL Series......	L541-ND	13.48	31641
13 Watt Fluorescent Bulb...........	L5205-ND	16.36	36205
5 Watt Halogen Lamp...............	L577-ND	14.44	34977
1.5" 10-Diopter Lense...............	L50206-ND	115.50	50206

KFM Series Magnifiers



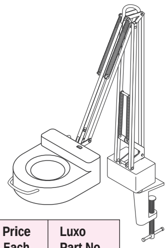
KFM's multi-lens capability offers a wider range of distortion-free magnification than any other magnifier. KFM's patented internal spring arm offers perfect balance and full adjustability to an infinite number of positions. There are no knobs to tighten, nothing to adjust. The 5" (12.7cm) diameter lenses are mounted in die-cast aluminum housing. Comes with a 22W energy-efficient fluorescent bulb which provides cool, shadow-free illumination. (22W T-9 Bulb)

Lens Type	"K" Arm Inch (cm)	Color	Digi-Key Part No.	Price Each	Luxo Part No.
Clamp Bracket					
5d	45 (114.30)	Black	L230B-ND	282.01	17115BK
5d	45 (114.30)	Lt. Gray	L230LG-ND	282.01	17115LG
Weighted Base					
3d	30 (76.20)	Black	L235B-ND	356.13	17253BK
3d	30 (76.20)	Lt. Gray	L235LG-ND	356.13	17253LG

Additional Lenses

Diameter Inches	Description	Digi-Key Part No.	Price Each	Luxo Part No.
4"	4-Diopter	L50201-ND	52.94	50201
3 1/8"	8-Diopter	L50202-ND	57.75	50202

60 Watt Incandescent Lamp - Less Bulb

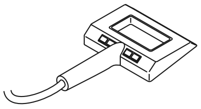


33" reach clamp-on magnifier light, 3-diopter lens.

(Bulb not included).

Mount	Digi-Key Part No.	Price Each	Luxo Part No.
Clamp Bracket,Black	L296BK-ND	49.09	L296BK

Hand Held UV Magnifier

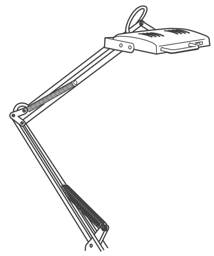


Provides both ultra-violet and standard white fluorescent lighting

Description	Digi-Key Part No.	Price Each	Luxo Part No.
4" x 2" Viewing Area, 5d (2.25x lens)	L16401-ND	303.19	16401

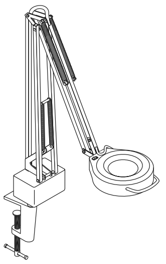
Ledu Task Master Series

L554 Series Halogen Worklight



Comes with "A"-bracket for clamping to horizontal surfaces. Handle on shade permits easy positioning. Includes 100W halogen bulb.

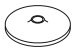
IM12D Series



Clamp-on 22-watt circle fluorescent lamp, 3-conductor cord set.
The L712 is a 3 diopter lens and the L7125 is a 5 diopter lens.

"L" Arm Inch (cm)	Color	Digi-Key Part No.	Price Each	Luxo Part No.	Luxo Series
Clamp Bracket					
42 (106.68)	White	L712WT-ND	168.44	L712WT	IM12D
42 (106.68)	White	L7125WT-ND	182.88	L7125WT	IM12D

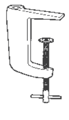
Weighted Base



Description	Digi-Key Part No.	Price Each	Luxo Part No.
Weighted Base for L712 Series	L60008WT-ND	51.98	60008WT

Clamp Bracket

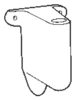
For edgemounting on horizontal surfaces.



L501BK-ND Black
L501LG-ND Lt. Gray
$13.48 each

Wall Bracket

For permanent mounting on vertical surface.

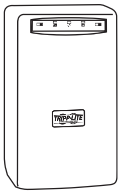


L503BK-ND Black
L503LG-ND Lt. Gray
$13.48 each

TRIPP·LITE
POWER PROTECTION

MADE IN USA

BC Series Standby UPS Systems



Tripp Lite's BC Personal® UPS Systems provide excellent basic battery backup for home and small office personal computers. BC Pro® units are ideal for network workstations and hubs and feature a communication port and PowerAlert Software for unattended system shutdown.

BCPRO600 features built-in RJ11 jacks for modem/fax surge protection. Diagnostic LEDs alert you to potential power problems before damaging connected equipment.

$25,000 Ultimate Lifetime Insurance protects both backup and equipment plugged into it. No warranty cards required for coverage! • All UPS's are UL Approved • 2 year warranty.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
BC Personal Standby UPS Systems			
3 Outlets, 300VA, 175W	TL196-ND	67.00	BCPERS300
3 Outlets, 450VA, 280W	TL197-ND	99.00	BCPERS450
BC PRO Standby UPS Systems			
6 Outlets (3 UPS/Surge, 3 Surge Only), 600VA, 345W	TL198-ND	136.00	BCPRO600
6 Outlets, 850VA, 570W	TL127-ND	399.00	BCPRO850
6 Outlets, 1050VA, 680W	TL128-ND	449.00	BCPRO1050
6 Outlets, 1400VA, 940W	TL129-ND	569.00	BCPRO1400

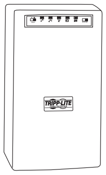
Internet Office™ Standby UPS Systems

Internet Office UPS Systems provide complete power protection for your entire computer set-up, even power hungry peripherals. Built-in RJ11 jacks prevent surges from damaging your modem/fax equipment on up to 2 lines simultaneously. New 350 and 525 VA models feature a compact cabinet design that packs more power into a smaller space. Communication port that works with PowerAlert Software for unattended system shutdown is available on most models.

$25,000 Ultimate Lifetime Insurance protects both backup and equipment plugged into it. No warranty cards required for coverage! • All UPS's are UL Approved • 2 year warranty.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
3 Outlets, 300VA, 175W, BC	TL200-ND	70.00	BCINTERNET300
6 Outlets (3 UPS/Surge, 3 Surge Only), 350VA, 180W	TL235-ND	39.99	INTERNET350
6 Outlets (3 UPS/Surge, 3 Surge Only), 500VA, 280W	TL201-ND	112.00	INTERNETOFFICE500
6 Outlets (3 UPS/Surge, 3 Surge Only), 525VA, 300W	TL236-ND	59.99	INTERNET525
6 Outlets (3 UPS/Surge, 3 Surge Only), 700VA, 425W	TL202-ND	139.00	INTERNETOFFICE700

OmniSmart™ Line-Interactive UPS Systems



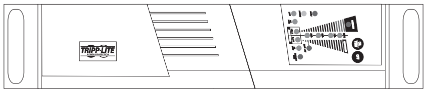
OmniSmart UPS Systems feature automatic voltage regulation that automatically "boosts" or "cuts" incoming voltage to keep computers working through low voltage (brownouts) and high voltage conditions without draining battery power.

Communication port and PowerAlert Software provide unattended system shutdown and network power management. Select models feature built-in RJ11 jacks for modem/fax surge protection.

$50,000 Ultimate Lifetime Insurance covers connected equipment.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
3 Outlets, 300VA, 180W	TL204-ND	147.00	OMNISMART300
6 Outlets (3 UPS/Surge, 3 Surge Only), 500VA, 300W	TL175-ND	189.00	OMNISMART500
6 Outlets (3 UPS/Surge, 3 Surge Only), 700VA, 425W	TL174-ND	279.00	OMNISMART700
6 Outlets, 850VA, 570W	TL169-ND	479.00	OMNISMART850
6 Outlets, 1050VA, 680W	TL170-ND	539.00	OMNISMART1050
6 Outlets, 1400VA, 940W	TL171-ND	649.00	OMNISMART1400

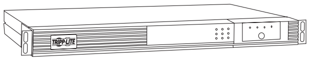
True On-Line UPS Systems with Zero Transfer Time



Tripp Lite gives you the benefits of zero transfer time rackmount UPS protection at an affordable price. These units provide full brownout-blackout protection and a fully regulated output, as each unit continuously conditions all power to your equipment. Full spike and surge protection as well as noise filtering provided by Tripp Lite's double conversion on-line power. $100,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 1000VA, 800W	TL216-ND	659.00	SU1000RTXL2U
6 Outlets, 1500VA, 1200W	TL291-ND *NEW!*	882.00	SU1500RTXL2U
6 Outlets, 2200VA, 1600W	TL217-ND	1265.00	SU2200RTXL2U
9 Outlets, 3000VA, 2400W	TL240-ND	1698.99	SU3000RT3U
Tower Kit with 2 Base Stands, Expandable from 3U to 9U	TL249-ND	56.00	3-9USTAND

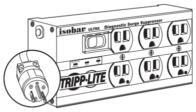
SmartPro® Intelligent UPS Systems



Tripp Lite's SmartPro UPS Systems provide intelligent, line-interactive battery backup for networks and servers. SmartPro systems allow you to work through short blackouts or safely shut down during longer ones. Communication port(s) work with PowerAlert Software to provide automatic unattended shutdown. Tripp Lite's PowerAlert Software is the only UPS software capable of managing every type and brand of UPS on your network, from every manufacturer. $50,000 Ultimate Lifetime Insurance. No warranty cards required for coverage!

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Smart Pro Rackmount UPS Systems			
6 Outlets, 750VA, 450W	TL289-ND *NEW!*	459.00	SMART750RM1U
6 Outlets, 1000VA, 700W	TL243-ND	599.00	SMART1000RM1U
8 Outlets, 700VA, 450W	TL161-ND	459.00	SMART700RM
8 Outlets, 1050VA, 680W	TL162-ND	599.00	SMART1050RM
8 Outlets, 1400VA, 940W	TL140-ND	702.00	SMART1400RM
8 Outlets, 1500VA, 940W	TL284-ND	797.00	SMART1500RMXL2U
8 Outlets, 2200VA, 1600W	TL288-ND *NEW!*	1079.00	SMART2200RMXL2U
9 Outlets, 3000VA, 2250W	TL239-ND	1219.00	SMART3000RM2U
Smart Pro Net UPS Systems			
5 Outlets (4 UPS/Surge, 1 Surge Only), 450VA, 270W	TL157-ND	239.00	SMART450RT
6 Outlets (3 UPS/Surge, 3 Surge Only), Modem/Fax, 550VA, 300W	TL285-ND	120.00	SMART550USB
6 Outlets (3 UPS/Surge, 3 Surge Only), 2 Line Modem/Fax, 700VA, 450W	TL224-ND	139.00	SMART700USB
6 Outlets, 700VA, 450W	TL158-ND	299.00	SMART700
6 Outlets, 750VA, 450W	TL286-ND	471.00	SMART750XL
6 Outlets, 1050VA, 680W	TL159-ND	463.00	SMART1050
6 Outlets, 1050VA, 680W	TL245-ND	569.00	SMART1050XL
6 Outlets, 1500VA, 980W	TL290-ND *NEW!*	558.00	SMART1500
6 Outlets, 2200VA, 1700W	TL279-ND	879.00	SMART2200NET
8 Outlets, 3000VA, 2400W	TL280-ND	1199.00	SMART3000NET

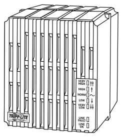
Hospital Grade Products



Protect healthcare equipment and patient data from all power problems. OMNISMART350HG protects against blackouts and brownouts within patient-care areas with UL 2601-1 full isolation. OMNISMART700HG protects against blackouts and brownouts outside of patient-care areas. Surge suppressors protect equipment from surge damage that do not require battery backup support. Power strips provide a convenient source of AC receptacles. Designed to produce extremely low leakage current to ground. The plugs and receptacles reduce the risk of accidental equipment disconnect.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
UPS Systems			
4 Outlets, 1 Comm. Port, 2 Line Modem/Fax, 330VA	TL253-ND	442.00	OMNISMART350HG
4 Outlets, 1 Comm. Port, 700VA	TL254-ND	462.00	OMNISMART700HG
4 Outlets, 1 DB9 Port and 1 USB Port, 1000VA	TL252-ND	849.00	SMART1200XLHG
Surge Suppressors			
6 Outlets, 790 Joules, 15' Cord, 15A, Metal Housing	TL258-ND	70.00	SPS-615-HG
6 Outlets, 940 Joules, 15' Cord, 15A, Metal Housing	TL281-ND	117.00	ISOBAR6ULTRAHG
Power Strips			
6 Outlets, 15' Cord, 12" Power Strip, 15A, Plastic	TL260-ND	57.00	PS-615-HG
12 Outlets, 15' Cord, 19" 1U Rackmount, 15A	TL259-ND	86.00	RS-1215-HG
Isolation Transformers			
2 Outlets, 6' Cord, 250W	TL257-ND	163.00	IS250HG
4 Outlets, 6' Cord, 500W	TL256-ND	238.00	IS500HG
4 Outlets, 6' Cord, 1000W	TL255-ND	343.00	IS1000HG

Line Conditioners



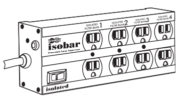
Line Conditioners let you work through brownouts for unlimited time periods, without using emergency power such as UPS systems. Line conditioners automatically adjust under-and over-voltages to provide safe computer grade AC power meeting ANSI C84.1 specifications. Full surge protection and noise filtering to eliminate erratic voltages coming into your equipment. Lifetime surge protection warranty (lightning strikes) and a full 2-year product warranty on all line conditioners.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
4 Outlets, 1200W	TL013-ND	172.00	LC1200
6 Outlets, 600W	TL283-ND	135.00	LS606M
6 Outlets, 1800W	TL014-ND	255.00	LC1800
6 Outlets, 2400W	TL044-ND	385.00	LC2400
14 Outlets, 2400W, Rackmount	TL028-ND	499.00	LCR2400

Adjustable Mounting Rails

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Adjustable Mounting Rails for any Rackmount UPS or Battery Pack	TL248-ND	77.00	UPSRMR

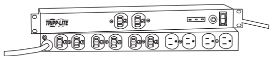
ISOBAR® Premium Surge Suppressors



ISOBAR is the most electronically advanced surge suppressor available today. Exclusive isolated filter banks eliminate interference between connected equipment. **Only ISOBAR provides:** • Superior RFI/EMI noise suppression • "Cascade Circuitry" to increase protection for more sensitive devices • Surge Suppression up to 13,000 amp spikes • Rackmount model (ISOBAR8RM) for industrial and sound applications • Up to 24 active filtering components • Meets IEEE 587 A and B Specifications • Less than 5 nanosecond transient response time. Up to $50,000 Ultimate Lifetime Insurance covers connected equipment against surge damage, including direct lightning strikes...for life.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
2 Outlets, 6' (1.83m) Cord	TL003-ND	59.95	IBAR2-6
6 Outlets, 6' (1.83m) Cord, Diag. LEDs, Modem/Fax, 2 Line Coax.	TL205-ND	119.95	ISOBAR6DBS
4 Outlets, 6' (1.83m) Cord, with Diag. LED	TL076-ND	89.95	ISOBAR4ULTRA
6 Outlets, 6' (1.83m) Cord, with Diag. LED	TL077-ND	104.95	ISOBAR6ULTRA
8 Outlets, 12' (3.66m) Cord, with Diag. LED	TL078-ND	116.95	ISOBAR8ULTRA
8 Outlets, 12' (3.66m) Cord, with Remote Power Switch	TL050-ND	129.50	ISOBAR8RM
4 Outlets, 6' (1.83m) Cord, Modem/Fax	TL009-ND	71.40	ISOTEL
6 Outlets, 6' (1.83m) Cord, Diag. LEDs, 2 Line Modem/Fax	TL081-ND	119.95	ISOTEL6ULTRA
8 Outlets, 12' (3.66m) Cord, Diag. LEDs, Modem/Fax	TL082-ND	134.95	ISOTEL8ULTRA

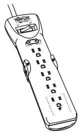
ISOBAR® Rackmount Surge Suppressors



The same premium features as the Isobar line in convenient, space-saving rackmount configurations. Exclusive isolated filter banks eliminate interference between connected equipment. "Cascade Circuitry" to increase protection for more sensitive devices. Complete surge, spike and line noise protection. $25,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
12 Outlets, 15' Cord, 750 Joules	TL027-ND	169.00	IBAR12
12 Outlets, 15' Cord, 1200 Joules	TL227-ND	159.00	IBAR12ULTRA
12 Outlets, 15' Cord, 1200 Joules, 20A	TL282-ND	199.00	IBAR12/20ULTRA
12 Outlets, 15' Cord, 1200 Joules, Locking Plug, 20A	TL261-ND	229.00	IBAR12-20T

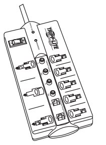
Economy Surge Suppressors



For a more economical approach to power protection, Tripp Lite offers six units for your specialized needs. Protect all computers and home office electronics against damaging surges, spikes and line noise. Select Protect It!™ Surge Suppressors offer space saving right angle plugs, transformer friendly designs and up to 2350 joules of surge absorption. Up to $75,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Protect It! Surge Suppressors			
6 Outlets, 250 Joules, 2' Cord	TL229-ND	7.99	TLP602
6 Outlets, 720 Joules, 4' Cord	TL264-ND	8.99	TLP604
7 Outlets, 750 Joules, 6' Cord	TL083-ND	11.99	STRIKER
7 Outlets, 1000 Joules, 12' Cord	TL263-ND	16.99	TLP712
7 Outlets, 2350 Joules, 7' Cord	TL085-ND	27.99	SUPER7
8 Outlets, 1900 Joules, 8' Cord	TL275-ND	27.99	TLP808
Spike Stik, 6 Outlets, 360 Joules, 6' Cord	TL026-ND	24.95	STIK
Super 8, 8 Outlets, 1200 Joules, 8' Cord	TL011-ND	44.95	SK6-6

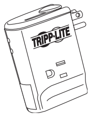
Modem/Fax and Multimedia Surge Suppressors



Protect all computers and home/office electronics, including modem/fax and multimedia equipment against damaging surges, spikes and line noise with Protect It!™ Series Surge Suppressors. Select models offer space saving right angle plugs, transformer friendly designs and up to 3690 joules of surge absorption. Select models include modem/fax, coaxial and or Ethernet surge protection. Up to $250,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 870 Joules, 4' Cord, 1 In/1 Out RJ11	TL230-ND	11.99	TLP604TEL
7 Outlets, 2350 Joules, 7' Cord, Type F Coax.	TL182-ND	27.99	SUPER7COAX
7 Outlets, 1270 Joules, 6' Cord, 1 In/1 Out RJ11	TL231-ND	22.99	SUPER6TEL
7 Outlets, 2470 Joules, 7' Cord, 1 In/1 Out RJ11	TL105-ND	35.99	SUPER7TEL
8 Outlets, 2820 Joules, 8' Cord, 1 In/2 Out RJ11	TL232-ND	43.50	TLP808TEL
8 Outlets, 3570 Joules,10' Cord, RJ11/2 Coax.	TL233-ND	57.99	TLP810SAT
8 Outlets, 3690 Joules, 10' Cord, 2 RJ11/Coax./Ethernet	TL234-ND	63.50	TLP810NET

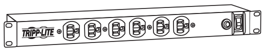
Direct Plug-In Surge Suppressors



These direct plug-in models offer a compact surge protection solution for all computers and home/office electronics. Direct plug-in Isobar models offer premium surge protection. The Traveler™ model offers ideal protection for notebook computers and fits easily into any briefcase. Select models offer diagnostic LEDs, transformer friendly designs and up to 600 joules of surge absorption. Up to $25,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Direct Plug-In, 1 Outlet, 150 Joules, 1 Year Warranty	TL287-ND	7.95	SPIKECUBE
The Traveler™, Direct Plug-In, 2 Outlets, 870 Joules, RJ11, 2 LEDs	TL008-ND	25.95	TRAVELER
Isobar, Direct Plug-In, 2 Outlets, 600 Joules, 3 LEDs	TL276-ND	59.95	ULTRABLOK428
Isobar, Direct Plug-in, 2 Outlets, 600 Joules	TL002-ND	48.00	ISOBLOK2-0
Isobar, 20A Direct Plug-In, 2 Outlets, 600 Joules, 3 LEDs	TL277-ND	79.95	ULTRACOPY
Isobar, Direct Plug-in, 2 Outlets, 600 Joules, with 1 RJ11 Jack	TL080-ND	69.95	ULTRAFAX
Direct Plug-In, 3 Stage Modem/Fax Protection	TL015-ND	59.95	TSB
Economical Data Line Protection, 2 Year Warranty	TL007-ND	19.95	MP

120V Power Strips



Tripp Lite power strips are a convenient solution for applications in which multiple AC outlets are needed without surge or line noise protection. Power strips are ideal for mounting inside rack enclosures or on walls, workbenches and more. Sturdy metal housing stands up to demanding network, lab or factory environments.

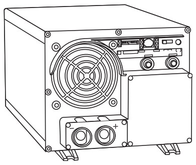
Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Vertical Power Strips			
8 Outlets, 24" Power Outlet Strip	TL206-ND	64.99	PS2408
12 Outlets, 36" Power Outlet Strip	TL207-ND	74.99	PS3612
16 Outlets, 48" Power Outlet Strip	TL208-ND	75.99	PS4816
Rackmount Power Strips			
12 Outlets, 19" Rackmount Outlet Strip	TL213-ND	57.50	RS-1215
12 Outlets, 19" Rackmount Surge Strip, 450 Joules	TL262-ND	79.00	DRS-1215
12 Outlets, 19" Rackmount Outlet Strip, 20A	TL265-ND	59.99	RS-1215-20
12 Outlets, 19" Rackmount Outlet Strip, 15A	TL266-ND	59.00	RS-1215-RA
16 Outlets, 48" Surge Power Strip, 450 Joules	TL274-ND	76.35	SS7415-15
PDU Series Rackmount — Power Distribution Strips			
12 IEC-320 Outlets, 19" Rack Strip, No Power Switch, 16A	TL270-ND	245.00	PDU12IEC
12 Outlets, 19" Rack Strip, No Power Switch, 15A	TL267-ND	137.00	PDU1215
12 Outlets, 19" Rack Strip, No Power Switch, 20A	TL268-ND	205.00	PDU1220
24 Outlets, 19" Rack Strip, No Power Switch, 30A	TL269-ND	369.00	PDU2430

Data Line Surge Suppressors

Data networks are increasingly susceptible to problems from dataline transients as transmission rates continue to rise. Tripp Lite's dataline surge suppressors safely divert damaging surges before they reach your critical network equipment. Protects I/O and Serial ports, modem fax cards, network interface cards and motherboards.

Lines Protected	Interface Type	Digi-Key Part No.	Price Each	Tripp Lite Part No.
All	USB (A)	TL292-ND *NEW!*	29.95	DUSB
1-9 and Chassis	DB9	TL151-ND	24.50	DB9
1-8, 20, and Chassis	DB25	TL152-ND	25.95	DB25
1-25 and Chassis	DB25	TL153-ND	35.75	DB25-ALL
4, 5 and 3, 6	RJ11/RJ45	TL154-ND	32.50	DTEL2
Center and Shield	F Coax	TL278-ND	39.95	DCATV

PowerVerter® DC-to-AC Inverters



Ultra-Compact Inverters are housed in a sturdy portable metal case with 12V cigarette lighter plug built-in. Ideal for laptops, test equipment and TV-VCR units.

Peak Power models are able to handle up to twice their normal wattage for short periods of time delivering high start-up current, frequency controlled AC, making them ideal for motors, refrigerators, power tools and microwaves.

APS Inverters feature modified sine wave, frequency controlled, fully regulated output. These units automatically sense and switch AC between line power and battery power. A built-in recharge circuit will recharge the battery when line voltage becomes available. Perfect for sump pumps, emergency lighting, and more.

Description (H x W x D)	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Ultra-Compact Inverters			
140W, 1 Outlet with Cigarette Plug, 1.75" x 3" x 6"	TL193-ND	42.00	PV140
300W, 2 Outlets with Cigarette Plug, 1.75" x 4.5" x 6"	TL194-ND	65.00	PV300
500W, 3 Outlets, 2.5" x 5" x 8", (Battery Clips are Included)	TL172-ND	119.00	PV500
1000W, 3 Outlets, Permanent-Mount, 4" x 6" x 12.5"	TL225-ND	285.00	PV1000HF
1800W, 3 Outlets, Permanent-Mount, 4" x 10" x 10.5"	TL226-ND	395.00	PV1800HF
Peak Power Inverters (Frequency Controlled)			
500W, 2 Outlets, 7" x 7" x 10"	TL146-ND	255.00	PV500FC
1000W, 2 Outlets, 7" x 7" x 10"	TL147-ND	318.00	PV1000FC
2000W, 2 Outlets, 6.5" x 8.5" x 12"	TL148-ND	529.00	PV2000FC
2400W, 2 Outlets, 24VDC, 6.5" x 8.5" x 12"	TL149-ND	717.00	PV2400FC
APS Premium Inverters with Charger			
500W, 2 Outlets, with Charger, 7" x 7" x 10"	TL218-ND	414.00	APS512
600W, 2 Outlets, with Charger, 6.9" x 3.6" x 8.5"	TL294-ND *NEW!*	439.00	APS612
1000W, 2 Outlets, with Charger, 7.2" x 8.5" x 16.5"	TL250-ND	616.00	APS1012
1500W, Hardwire Output, 24VDC, w/Charger, 7.2" x 8.5" x 16.5"	TL251-ND	699.20	APS1524
2000W, 2 Outlets, with Charger, 7.25" x 8.5" x 16.5"	TL221-ND	904.00	APS2012
2400W, 2 Outlets, 24VDC in w/Charger, 7.2" x 8.5" x 16.5"	TL222-ND	1016.00	APS2424

Precision — Regulated DC Power Supplies

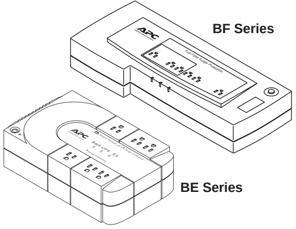
Features:
• Current limiting electronic foldback for automatic overcurrent protection in case of overload; time controlled on 7 amp and larger models • Regulated output voltage maintains up to 95% of no load value • High quality filtering provides for very low ripple/low noise operation • Large heat sinks and vented cabinet provide cool operation for continuous use and long life of the unit.

Description	Application	Digi-Key Part No.	Price Each	Tripp Lite Part No.
13.8VDC, 3A	CBs, Car Tape Players	TL185-ND	33.50	PR3
13.8VDC, 3A	CBs, Car Tape Players	TL173-ND	46.00	PR3UL
13.8VDC, 4.5A	CBs, Car Tape Players	TL195-ND	39.00	PR4.5
13.8VDC, 7A	Single Side-Band CBs, Car Stereos	TL186-ND	55.00	PR7
13.8VDC, 10A	30W Transmitters, 2-Way Radios	TL187-ND	79.00	PR10
13.8VDC, 12A	40W Transmitters, 2-Way Radios	TL188-ND	85.00	PR12
13.8VDC, 15A	50W Transmitters, Commercial Radios	TL189-ND	118.50	PR15
13.8VDC, 20A	60W Transmitters, Commercial Radios	TL272-ND	125.00	PR20
13.8VDC, 25A	75-100W Ham, Commercial Radios	TL190-ND	165.00	PR25
13.8VDC, 30A	125W Ham, Commercial Radios	TL273-ND	172.00	PR30
13.8VDC, 40A	150-200W Ham, Commercial Radios	TL191-ND	211.00	PR40
13.8VDC, 50A	225W Ham, Commercial Radios	TL192-ND	262.00	PR50
13.8VDC, 60A	250-300W Ham, Commercial Radios	TL241-ND	309.00	PR60

Back-UPS Low Profile Home and Office

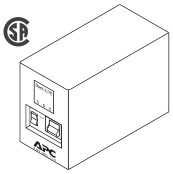
BF Series:
These Low Profile Back-UPS were created for home small business use and allow convenient access to the outlets whether you position the Back-UPS on your desktop, mount it on a wall or place it on the floor under your desk. 6 Outlets total with 3 dedicated to backup and surge and the other 3 are surge only. Also includes Internet ready phone/fax/DSL dataline protection. USB interface port for file saving and auto shut down software included. 2 year Warranty. $25,000 lifetime equipment protection policy.

BE Series:
Same as above but with a $50,000 lifetime equipment protection policy.



Output (W)	Outlets	Applications	Dimensions (H x W x D)	Digi-Key Part No.	Price Each	APC Part No.
225	3 UPS/ 3 Surge Only	Home/Office PC, Desktop,Wall, Floor	2.7" x 17.0" x 7.0"	388-1000-ND	85.12	BF350
325	3 UPS/ 3 Surge Only	Home/Office PC, Desktop, Wall, Floor	2.7" x 17.0" x 7.0"	388-1001-ND	109.06	BF500
200	3 UPS/ 3 Surge Only	Home/Office PC, Desktop, Wall, Floor	3.3" x 10.9" x 6.9"	388-1061-ND	39.99	BE350U
300	3 UPS/ 3 Surge Only	Home/Office PC, Desktop, Wall, Floor	3.3" x 10.9" x 6.9"	388-1062-ND	59.99	BE500U

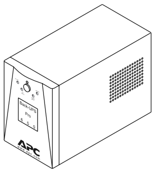
Back-UPS Home and Office Series



The Back-UPS series offer plenty of runtime to ride through momentary outages or shutdown your system in the event of extended outages. Back-UPS 500 and 650 also include multipath protection, enough outlets to safeguard your entire system plus fax/modem protection. Perfect for home or office use.
2 year Warranty. $25,000 lifetime equipment protection policy.

Output (W)	Outlets	Applications	Dimensions (H x W x D)	Digi-Key Part No.	Price Each	APC Part No.
210	2 UPS/ 1 Surge Only	Home PC, Desktop Workstation	6.0" x 3.4" x 13.1"	388-1002-ND	69.99	BK350
330	2 UPS/ 1 Surge Only	Tower PC, Desktop Workstation	6.6" x 4.7" x 14.2"	388-1003-ND	109.99	BK500
400	3 UPS/ 3 Surge Only	Tower PC, Desktop Workstation	6.6" x 4.7" x 14.2"	388-1004-ND	129.99	BK650MC

Back-UPS Pro Series and Back-UPS Multiple Workstation

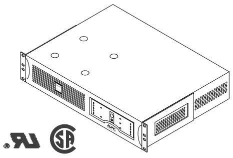


Back-UPS Pro are high performance battery backup power with smart power management. Perfect for Network management of PC Workstations. Includes Internet ready phone/fax/DSL dataline protection. Automatic voltage regulation (AVR) consistently adjusts incoming voltage irregularities to save battery runtime. Battery replacement is user replaceable and hot swappable. 2 year Warranty. $25,000 lifetime equipment protection policy.

Output (W)	Outlets	Applications	Modem/Fax Protection	Dimensions (H x W x D)	Digi-Key Part No.	Price Each	APC Part No.
Back-UPS Pro Series							
180	2 UPS, 1 Surge Only	Home PC, Desktop Workstation	Yes	5.9" x 3.4" x 13.3"	388-1005-ND	149.99	BP280S
260	3 UPS, 3 Surge Only	Tower PC, Loaded Workstation	Yes	6.6" x 4.7" x 14.5"	388-1006-ND	199.99	BP420S
410	3 UPS, 3 Surge Only	Tower PC, Loaded Workstation	Yes	6.6" x 4.7" x 14.5"	388-1007-ND	299.99	BP650S
Back-UPS Pro Multiple Workstation							
670	6	Multiple PC's/ Workstations	Yes	8.5" x 6.7" x 17.3"	388-1008-ND*	559.99	BP1000

* Auto-shutdown software not included with these systems

UPS Rack-Mount Series

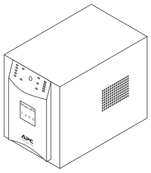


Rack Mounted UPS systems provide sensitive rack mount equipment with backup safety and surge protection. All rack mount systems are compatible with all popular rack systems, including the Compaq server rack. Using only 2 or 3 vertical rack spaces, APC's rack mount series allow more room to rack mount other critical equipment.
2 year Warranty. $25,000 lifetime equipment protection policy.

Output (W)	Out-lets	Applications	Comm. Port	Unit Hgt. (U)	Dimensions (H x W x D)	Digi-Key Part No.	Price Each	APC Part No.
450	6	Network File Server	DB-9	2U	3.5" x 19.0" x 18.0"	388-1051-ND	499.00	SU700RM2U
670	6	Network File Server	DB-9	2U	3.5" x 19.0" x 18.0"	388-1052-ND	659.00	SU1000RM2U
950	6	Multiple File Server	DB-9	2U	3.5" x 19.0" x 18.0"	388-1053-ND	849.00	SU1400RM2U
1600	8	Multiple File Server Phone System*	DB-9	3U	5.25" x 19.0" x 25.0"	388-1054-ND	1050.00	SU2200RM3U
2250	8	Multiple File Server, Phone System*	DB-9	5U	8.75" x 19.0" x 17.75"	388-1055-ND	1600.00	SU3000RMNET

* Internet working

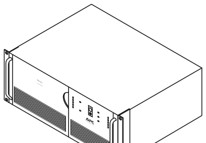
Smart-UPS Tower



Smart-UPS systems include all of the features of Back-UPS Pro but are designed for high powered multi-server applications.These tower systems are perfect for backup and protection of telcom systems, multiple servers, UNIX, and data storage systems.
File saving auto shutdown software for Windows 95/98 and NT, Windows 2000 and Windows Me.
2 year Warranty $150,000 lifetime equipment protection policy.

Output (W)	Out-lets	Input Line	Applications	Comm. Port	Dimensions (H x W x D)	Digi-Key Part No.	Price Each	APC Part No.
260	4	NEMA 5-15P	Network File Server	DB-9	6.6" x 4.7" x 14.5"	388-1045-ND	209.99	SU420NET
390	4	NEMA 5-15P	Network File Server	DB-9	6.6" x 4.7" x 14.5"	388-1046-ND	269.99	SU620NET
450	4	NEMA 5-15P	Network File Server	DB-9	6.2" x 5.4" x 14.1"	388-1047-ND	319.99	SU700NET
670	8	NEMA 5-15P	Network File Server	DB-9 SmartSlot USB	8.5" x 6.7" x 17.3"	388-1060-ND	459.00	SUA1000
980	8	NEMA 5-15P	Multiple File Server	DB-9 SmartSlot USB	8.5" x 6.7" x 17.3"	388-1059-ND	559.00	SUA1500
1600	8	NEMA 5-20P	Multiple File Server, Phone System	DB-9	17.0" x 7.7" x 21.5"	388-1050-ND	879.00	SU2200NET

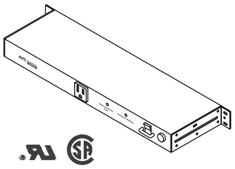
UPS Extended Run Rack-Mount Series



• Expandable, extended run power by adding battery packs • Automatic Voltage Regulation (AVR) corrects under and overvoltages • File-saving, auto-shutdown software Windows 95/98, Windows NT, Windows 2000, and Windows Me • Built in accessory card slot • User-replaceable, hot-swappable batteries • 2 year product warranty • $25,000 lifetime equipment protection policy

Output (W)	Outlets	Input Line	Applications	Comm. Port	Dimensions (H x W x D)	Digi-Key Part No.	Price Each	APC Part No.
950	6	NEMA 5-15P	Multiple File Server, Phone System	DB-9	5.12" x 17.0" x 15.5"	388-1056-ND	729.00	SU1400RMXL3U
1600	8	NEMA L5-30P	Multiple File Server, Phone System	DB-9	8.8" x 19.0" x 17.8"	388-1057-ND	1375.00	SU2200RMXLNET

Network 19" Rack-Mount Surge Suppressor

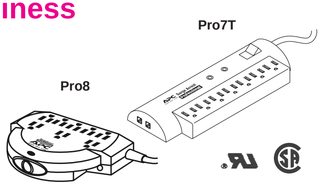


• 9 outlets with surge protection including one "always on" for devices that require constant power • Multi-positional mounting bracket provides real installation flexibility • Guarded master on/off switch to prevent accidental turn-off • Cord Management to organize power cords • "Plug pull protection" to prevent accidental plug removal • Protection working indicator to alert the user that the suppressor has been damaged • Building/Site wiring fault indicator to detect dangerous wiring problems • $25,000 lifetime equipment protection policy and Lifetime Product Warranty

Modem/Fax Protection	Outlets	Cord Length	Let-Through Voltage	Lifetime Equipment Protection Policy	Digi-Key Part No.	Price Each	APC Part No.
No	9	15'	<40 V	$25,000	388-1028-ND	124.99	Net9RM

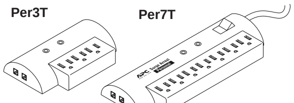
Home Office/Small Business Surge Protection

The professional surge arrest series offers a great value for high-end home equipment and business applications. Small office and home equipment and high performance stereo equipment, laser printers and modems. 2 "always-on" outlets and wide spaced design allows for wall transformer blocks. Built-in modem protection included also. Pro8TV is intended for DSS systems for protection of 120V line, telephone/modem and Coax protection.



Modem/Fax Protection	Outlets	Cord Length	Let-Through Voltage	Digi-Key Part No.	Price Each	APC Part No.
No	7	6'	<85 V	388-1016-ND	49.95	Pro7
Yes	7	6'	<85 V	388-1017-ND	59.95	Pro7T
No	8	6'	<85 V	388-1018-ND	59.95	Pro8
Yes	8	6'	<85 V	388-1019-ND	69.95	Pro8T2
Yes - Coax	8	6'	<85 V	388-1021-ND	59.99	Pro8TV

Basic Personal Surge Protection



• Built-in single line (2 wire) protection for telephones, modems, fax and answering machines (Per3T, Per7T) • Protection working indicator to alert you that the suppressor has been damaged • Building/Site wiring fault indicator to detect dangerous wiring problems • Lifetime Product Warranty

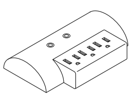
Modem/Fax Protection	Outlets	Cord Length	Let-Through Voltage	Digi-Key Part No.	Price Each	APC Part No.
No	6	6'	<330 V	388-1010-ND	9.99	P6
No	3	—	<300 V	388-1011-ND	24.95	Per3
Yes	3	—	<300 V	388-1013-ND	34.95	Per3T
No	7	6'	<300 V	388-1014-ND	29.95	Per7
Yes	7	6'	<300 V	388-1015-ND	39.95	Per7T

APC AMERICAN POWER CONVERSION Network Surge Protection

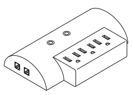
The Network Surge Arrest series provides maximum protection for network and business computer equipment including workstations and network modems. Intended for the most challenging corporate environments and equipment such as Network Nodes, Token Ring, and 10base-T/100base-T connections. Net3T and Net7T include phone line protection. Lifetime Product Warranty.

Modem/Fax Protection	Outlets	Cord Length	Let-Through Voltage	Lifetime Equipment Protection Policy	Digi-Key Part No.	Price Each	APC Part No.
No	3	—	<40 V	$25,000	388-1022-ND	39.95	Net3
Yes	3	—	<40 V	$25,000	388-1023-ND	69.95	Net3T
No	7	6'	<40 V	$25,000	388-1024-ND	59.95	Net7
Yes	7	6'	<40 V	$25,000	388-1025-ND	89.95	Net7T
No	8	6'	<40 V	$25,000	388-1026-ND	69.95	Net8
Ethernet/Token Ring	8	6'	<40 V	$25,000	388-1027-ND	89.95	Net8N

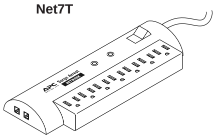
Net3



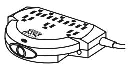
Net3T



Net7T



Net8N



Dataline, Port and Cable Protection

Fig. 1

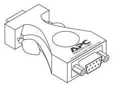


Fig. 2

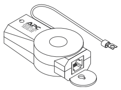


Fig.	Model Name	Application Description	Lines Protected	Includes	Digi-Key Part No.	Price Each	APC Part No.
1	9-Pin serial port (female to male)	Protects serial DB-9 port of data terminal equipment and personal computers	1-9	Thumb screws	388-1030-ND	34.95	PS9-DTE
1	9-Pin serial port (male to female)	Protects serial DB-9 port of data communications equipment like printers, plotters and modems	1-9	Thumb screws	388-1029-ND	34.95	PS9-DCE
1	RS-232 serial/ parallel port (male to female/ female to male)	Protects DB-25 serial and parallel ports of computers and peripheral equipment	1-25	Thumb screws	388-1031-ND	39.95	PSP25
2	2-line telephone (RJ11 or RJ45 Type)	Protects telephone equipment such as fax machines, modems, and answering machines	1, 2, 3, and 4 on RJ11 connector and 3,4,5, and 6 on RJ45 conn	6ft. extension cable, mounting fasteners	388-1033-ND	39.95	PTEL2
2	Digital telephone line surge protector	Protects ISDN, T1, DLL 56K, and other digital telecomm. equipment	1-8 on RJ45 connector	Patch cable, mounting fasteners	388-1034-ND	39.95	PDigiTel
2	Ethernet, 100Base-T/10Base-T/ Token Ring network surge protector(RJ45)	Protects 100Base-T, 10Base-T, and Token Ring network interface cards, hubs or LAN equipment	1-8 on RJ45 connector	Patch cable, mounting fasteners	388-1035-ND	39.95	PNet1

Panasonic® NTSC Color Board Cameras

Fig. 1

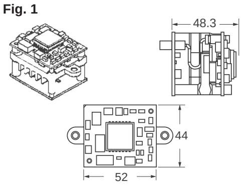


Fig. 2

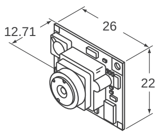
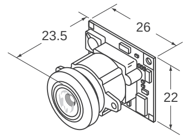


Fig. 3



Model GP-CX161CSP • CCD Camera Board , CS mount, no lens, 2.5 lux @ F1.4
Model GP-CX171P • CCD Camera, High resolution with filter, no lens, 9 lux @ F2.0/18 lux @ F2.8
Model GP-KX121P • CCD Camera Module Color, no lens, 6 lux @ F2.8, 3 lux @ F2.0
Model GP-KX121/45P • CCD Camera Module Color, 45°, 6 lux @ F2.8, 3 lux @ F2.0
Model GP-KX121/51P • CCD Camera Module Color, 51°, 6 lux @ F2.8, 3 lux @ F2.0

Panasonic's self-contained board cameras are designed for indoor applications. All feature small size and low power consumption with a built in one chip DSP for digital signal processing and the latest bare-chip manufacturing technology. **Specifications:** • **Image Device:** 1/4" CCD • **Resolution:** 330 lines (480 for GP-CX171P) • **Video Out:** VBS 1Vp-p/75Ω • **Sync:** Internal • **Power Consumption:** 160mA, 125mA (121 series) • **Power Supply:** 4.8~5.5VDC (161/121 series), 12V (171 series) • **Focus:** Manual • **Operating Temperature:** +5°C to +35°C (161/121 series)

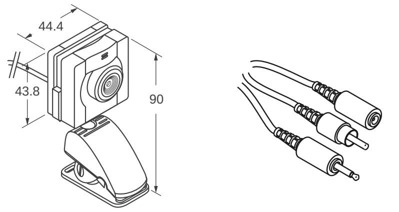
Fig.	Description	Digi-Key Part No.	Price Each	Panasonic Part No.
1	Color Camera High Res. No Lens or Mount	P9512-ND	216.67	GP-CX171P
—	Color Camera Module CCD No Lens	P9517-ND	81.67	GP-KX121P
2	Color Camera Module CCD 45°	P9519-ND	91.67	GP-KX121/45P
3	Color Camera Module CCD 51°	P9518-ND	95.00	GP-KX121/51P
—	Cable Assembly for All	P9507-ND	3.00	Z-E498-01

Note: All 161/171/121 Series require cable assembly P9507-ND.

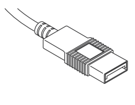
Matsushita Communication Industrial Co., Ltd.

Color CCD Cameras

P9506



P9513



Model GP-KR521P

• Enclosed is a color CCD camera with microphone • Designed for video conferencing or video telephone use • Features the GP-CX161P camera board with audio • Innovative mounting bracket allows mounting in virtually any position • 360° Pan, 110° Tilt (manual) • Includes AC adapter and non-detachable cables • Color: black • RCA Plug for video out and a standard 3.5mm microphone plug for audio out

Model GP-KR651US

• USB version of above camera. No external AC adapter required. Microphone not included. Non-detachable USB cable. VGA @ 12.5 frames per second. Driver software included. • Color: Beige

Lux	Digi-Key Part No.	Price Each	Matsushita Part No.
10~10,000	P9506-ND	125.00	GP-KR521P
10~10,000	P9513-ND	125.00	GP-KR651US

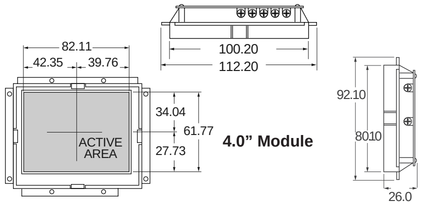
LUMEX Color LCD TFT Modules 4.0" and 6.4" Modules

Take Standard NTSC Composite Video Signals

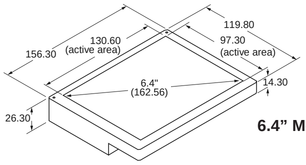
These high quality, low profile, 4.0" and 6.4" color LCD TFT modules can be used to view any NTSC composite video source such as the output from a VCR or one of our small Panasonic CCD cameras.

Operating Conditions:

- **Operating Voltage (Vop):** 10-30VDC, 12VDC typ.
- **Operating Temperature (Top):** 0°C to +60°C
- **Storage Temperature (Tst): 4.0" Module:** -20°C to +80°C **6.4" Module:** -25°C to +80°C
- **Operating Humidity (Ho):** 85%RH
- **Storage Humidity (Hs):** 85% RH
- **Input Signal/NTSC Sync Negative** (Composite Video Signal: 1Vp-p/75Ω): **Vi:** 1Vp-p **fH:** 15.75KHz **fV:** 60Hz **fc:** 3.58MHz
- **Power Consumption (Pc): 4.0" Module:** 5W **6.4" Module:** 7W

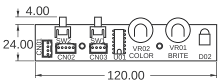


4.0" Module



6.4" Module

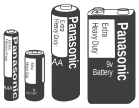
Interface Board



Display Size (inch)	Resolution (No. of lines)		Active Area (mm)		Dot Pitch (mm)		Weight (gm.)	Backlight*	Viewing Angle				Digi-Key Part No.	Price Each	Lumex Part No.
	Width	Height	Width	Height	Width	Height			Right	Left	Up	Down			
4.0	480	234	82.10	61.70	0.106	0.161	166 ±5	CCFT	45°	45°	10°	30°	67-1547-ND	299.00	LCM-480234GF-40CG
6.4	960	234	130.6	97.3	0.136	0.416	340 ±5	CCFT	50°	50°	10°	30°	67-1511-ND	497.53	LCM-960234GR-64FC

* 10,000 hour min. at Tamb=25°C

Panasonic® Extra Heavy Duty Carbon Zinc Batteries



FEATURES:

- **Unsurpassed Leakage Resistance for a Longer Service Life**
- **Discharge Characteristics Suited for All Applications**
- **Excellent Storage Life**

Panasonic Extra Heavy Duty battery is composed of: manganese dioxide for the positive-activating substance, zinc for the negative-activating substance, and an aqueous solution of neutral salts such as zinc chloride and ammonium chloride for the electrolyte.

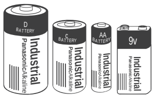
APPLICATIONS: • Transistor radios, tape recorders, portable TVs, interphones, transceivers, electronic calculators, clocks and watches, communications equipment, measuring instruments and various other electronic products • Flashlights, pen lights and various other lighting devices • 8mm cameras and other photographic products • Gas and oil equipment, toys, etc.
Also available in tabbed version of D, C, and AA cell batteries; denoted by "T" suffix in Digi-Key part number. *Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.*

Size	(V)	Dimensions – In. (mm) Dia.	Height	Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Digi-Key Part No.	Each	Pricing Pkg.	Carton	Panasonic Part No.
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.67 (19)	110 hrs. (100Ω cont.)	P103-ND	.51	20.40/60	132.60/600	UM-3NX
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.34 (9.7)	39 hrs. (100Ω cont.)	P265-ND	.27	9.00/50	144.00/1500	R03NPA/BK
N	1.5	0.472 (12.0)	1.189 (30.2)	0.23 (6.55)	30 hrs. (100Ω cont.)	P266-ND	.36	12.00/50	288.00/2000	UM-5NX
9V	9	1.91 x 1.04 x 0.69 (48.5 x 26.5 x 17.5)		1.34 (38)	2.5 hrs. (100Ω cont. to 5.4V)	P104-ND	1.77	14.16/12	220.90/288	006PNX
Lantern ‡	6	2-11/16" x 2-11/16" x 4-1/16" (68.26 x 68.26 x 103.19)		20.0 (567)	Heavy duty type battery	P206-ND	4.20	45.36/12	45.36/12	W4FDPA
AA	Tabbed Version					P103T-ND	.87	34.80/60	261.00/600	UM-3NX

* See "How To Order" for note on shipping charges on prepaid orders. ‡ Spring top type.

Panasonic® Industrial Alkaline Batteries

MADE IN U.S.A.



FEATURES:

- **Large Current and Large Capacity for an Excellent Performance**
- **Stable Voltage and Current**
- **Unsurpassed Resistance to Leakage**
- **Excellent Storage Life**

The cylindrical alkaline battery is composed of: manganese dioxide for the positive-activating substance, zinc powder for the negative-activating substance, and caustic alkali for the electrolyte.

APPLICATIONS: 99% *MERCURY FREE* • Headphone stereo, radio-cassette recorders, strobes, cameras, electronic calculators, 8 mm cameras, electric shavers, tape recorders, high-power flashlights, toys and other cordless products. Also available in tabbed version of D, C, and AA cell batteries; denoted by "T" suffix in Digi-Key part number. *Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.*

Size	(V)	Dimensions – In. (mm) Dia.	Height	Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Rated Drain (mA)	Digi-Key Part No.	Each	Pricing Pkg	Carton	Panasonic Part No.
D	1.5	1.346 (34.2)	2.421 (61.5)	4.76 (135)	1200 hrs. (100Ω cont.)	320	P105-ND	1.74	13.92/12	146.16/144	AM-1PIX
C	1.5	1.031 (26.2)	1.969 (50.0)	2.29 (65)	380 hrs. (100Ω cont.)	300	P106-ND	1.29	20.64/24	160.99/288	AM-2PIX
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.85 (24)	170 hrs. (100Ω cont.)	130	P107-ND	.57	15.20/40	148.20/600	AM-3PIX/2S
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.42 (12)	65 hrs. (100Ω cont.)	25	P146-ND	.57	19.00/50	123.50/500	AM-4PIX/2S
N	1.5	0.472 (12.0)	1.189 (30.2)	0.32 (9)	48 hrs. (100Ω cont.)	25	P147-ND†	1.08	17.28/24	280.80/600	AM5X
9V	9	1.93 x 1.04 x 0.69 (49.0 x 26.0 x 17.5)		1.66 (47)	6 hrs. (100Ω cont. to 5.4V)		P145-ND	2.22	17.76/12	277.06/288	6AM-6PIX/1S
D	Tabbed Version						P105T-ND	2.04	16.32/12	181.15/144	AM-1PIX
C	Tabbed Version						P106T-ND	1.65	26.40/24	237.60/288	AM-2PIX
AA	Tabbed Version						P107T-ND	.93	24.80/40	279.00/600	AM-3PIX/2S

* See "How To Order" for note on shipping charges on prepaid orders. † Made in Japan.

ACL Staticide®

PowerPen

A battery contact cleaner that inhibits and removes oxidation on all types of batteries and terminals of battery powered products. This means you will spend less money on batteries because PowerPen will maximize your batteries performance. In addition, using PowerPen as directed will protect all terminals from corrosion, therefore extending the products' life.

ST1026-ND..........**$6.17**

Panasonic® Sealed Lead-Acid Batteries (Valve Regulated)

GENERAL FEATURES: *"DO NOT LEAK!!"*

• **High Quality & High Reliability:** The LCR battery has stable and reliable capacity. 100% tested on line for voltage, capacity, and seals. And all vents are 100% visually inspected during the final assembly process.

• **High Power Density:** These batteries save installation space, while providing full and reliable power for the equipment, and many have been designed for rapid recharge, or for high power output.

• **Leak-resistant Structure:** The LCR battery uses an absorbed electrolyte system. The LCR batteries have exceptional leak resistance, **and can be used in any position.**

• **Long Service Life; Flat or Cyclic:** The LCR battery has long life in float or cyclic service.

• **Easy Maintenance:** There is no need to check the specific gravity of the electrolyte or to add water during the service life. Totally sealed, and needs only charging for maintenance.

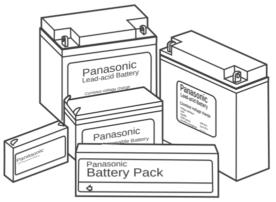
• **No Corrosive Gas Generation:** There is no corrosive gas generation during normal use.

• **Exceptional Deep Discharge Recovery:** LCR batteries have exceptional deep discharge recovery and charge acceptance, even after deep or prolonged discharge.

• **DOT & IATA Approval:** Transportation; The SLA batteries should be handled as common cargoes for both air and boat shipping.

• **U.L. Component Recognition:** U.L. Component Recognition under UL924, Section 38, for Emergency Lights and Power Supplier (not UPS), requires that the battery safely vent when overcharged, and tested under mineral oil. It further requires that the equipment and battery be submitted together for formal UL approval. **(UL Component Recognition does NOT remove this requirement for complete package testing).** The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.



CROSS REFERENCE ABBREVIATIONS:
EP = Eagle-Picher; YU = Yuasa; PS = Power Sonic; PA = Panasonic

(V)	Cap. 20h Rate (Ah)	Dimensions – In. (mm) L x W x H	Term. Type (In.)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing 1	10	Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference (see above for mfg. abbreviations)
6	1.3	3.82 x 0.94 x 1.97 (97 x 24 x 50)	.187 spade	0.66 (.30)	P128-ND	8.12	72.16	252.55/40	LC-R061R3PU	YU: NP1.2-6; PS: PS-612, PA: LCR-6V1.3P
6	3.4	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.37 (.62)	P166-ND	15.80	140.41	294.86/24	LC-R063R4P	EP: CF6V2.6; YU: NP3-6; PS: PS-626
6	4.2	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	1.72 (.78)	P164-ND	8.25	75.00	162.00/24	LC-R064R2P	—
6	7.2	5.95 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.78 (1.26)	P074-ND	13.39	—	124.95/12	LC-R067R2P	YU: NP7-6: PA: LCR-6V7.2P
6	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.30 (1.95)	P075-ND	16.50	—	178.20/12	LC-R0612P	PA: LCR-6V12P
6	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.30 (1.95)	P165-ND	16.50	—	178.20/12	LC-R0612P1	PA: LCR-6V12P1
12	1.3	3.82 x 1.87 x 1.97 (97 x 47.5 x 50)	.187 spade	1.30 (.59)	P264-ND	17.14	152.31	266.55/20	LC-R121R3PU	PS: PS-1212, PA: LCR-12V1.3P
12	2.2	6.97 x 1.34 x 2.36 (177 x 34 x 60)	.187 spade	1.76 (.80)	P171-ND	19.75	175.53	368.61/24	LC-R122R2P	EP: CF12V1.5; YU: NP1.9-12; PS: PS-1219
12	3.4	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.65 (1.20)	P172-ND	25.31	—	236.25/12	LC-R123R4P	EP: CF12V2.6S1; YU: NP2.6-12; PS: PS-1230
12	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.187 spade	5.45 (2.47)	P078-ND	20.88	—	187.88/10	LC-R127R2P	YU: NP7-12; PA: LCR-12V6.5P
12	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.45 (2.47)	P218-ND	18.79	—	146.13/10	LC-R127R2P1	PA: LCR-12V6.5P1
12	12	5.95 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.41 (3.8)	P230-ND	30.94	—	288.75/12	LC-RA1212P1	—
12	17	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.3 (6.5)	P174-ND	36.23	—	124.20/4	LC-RD1217P	EP: CFM12V18; YU: NP15-12; PS: PS-12150
12	20	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.6 (6.6)	P231-ND	41.13	—	141.00/4	LC-X1220P	—
12	28	6.50 x 4.92 x 7.07 (165 x 125 x 179.5)	nut/bolt	24.3 (11)	P049-ND	52.50	450.00	—	LC-X1228	—
12	33	7.70 x 5.12 x 7.09 (195.6 x 130 x 180)	nut/bolt	26.5 (12)	P259-ND	84.56	768.75	—	LC-R1233P	PS: PS-12330, PA: LCR-12V33P
12	42	7.76 x 6.50 x 7.09 (197 x 165 x 180)	nut/bolt	35.3 (16)	P153-ND	80.94	693.75	—	LC-X1242P	—
12	65	13.80 x 6.54 x 6.89 (350 x 166 x 175)	nut/bolt	52.9 (24)	P209-ND	123.38	1057.50	—	LC-X1265P	PA: LCR-12V65P

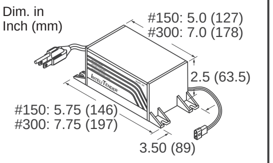
(V)	Cap. @ 10 Minute Rate (watt/cell)	Dimensions — Inch (mm) L x W x H	Term. Type (In.)	Weight Lbs. (kg)	Digi-Key Part No.	Pricing 1	Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference
Watt-Rated Series (Designed for UPS Back-up Systems)									
12	20W	5.51 x 1.52 x 3.70 (140 x 38.5 x 94)	.250 spade	2.98 (1.35)	P210-ND	20.81	194.25/12	UP-RW1220P1	—
12	45W	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.62 (2.55)	P225-ND	22.95	178.50/10	UP-RW1245P1	PA; LC-R129P1, PA; LC-R129CH1

* See "How To Order" for note on shipping charges on prepaid orders.

PATCO

Battery Charger/ Maintainer

INTELITENDER MODELS 150 & 300



The InteliTender brings the battery to full optimum charge. Then, under the control of its computer, monitors the batteries voltage, supplying only what is needed to maintain the ideal charge.

Model 300 charges 2 batteries.

Volt	Amp	Model	Digi-Key Part No.	Price Each
Battery Chargers				
6	.75	150	PATC-02-ND*	69.93
6	1.5	150	PATC-01-ND†	69.93
12	.75	150	PATC-04-ND*	69.93
12	1.5	150	PATC-03-ND†	69.93
12 x 2	1.5 x 2	300	PATC-08-ND†	124.88
Cable (Must Order Separately)				
Battery Hook-up, Spring Clamp			PATC-07-ND	7.49
Motorcycle Hook-up, Ring Lugs			PATC-06-ND	5.00
Marine Hook-up, Ring Lugs			PATC-05-ND	5.00

* Recommended for 2.0 to 3.4 Ah batteries.
† Recommended for 4.0 Ah & above batteries.

Panasonic® Nickel-Metal Hydride Batteries and Tabbed Versions

Features: • **Superior Energy Density:** Nickel-metal hydride batteries have approximately double the capacity compared with Panasonic's standard Ni-Cad batteries
• **High Cycle Life:** Like Ni-Cad batteries, nickel-metal hydride batteries can be repeatedly charged and discharged up to approx. 500 cycles (under ideal conditions). **Because a specially designed charger will be necessary,** please consult the Panasonic Technical Handbook (P001-ND) regarding the charge system • **Flat trickle charge cannot be used**
• **Excellent Discharge Characteristics:** Since the internal resistance of nickel-metal hydride batteries is low, continuous high-rate discharge up to 3C (10C for 4/5SC, SC) is possible in the same way as for Ni-Cad batteries.
• **Excellent Reliability:** Self-discharge performance is the same or better than that of nickel-cadmium batteries. In addition, charging batteries after extended storage restores original battery capacity. Battery safety has also been improved and verified through testing under a wide range of conditions of use.

Applications: • Communication • Office Automation • Audio Visual Equipment • Other High-Tech Products.
Caution for Safety: Improper usage may cause battery liquid leakage, heat generation or explosion, resulting in equipment failure or injury • Do not disassemble or rework the battery • Do not solder the battery directly • Do not use new batteries together with old batteries, or different type batteries mixed together • Follow the specified charge conditions.
Note: Battery Packs made with NIMH Cells include a thermostat from Texas Instrument.
Note: Nickel-metal hydride batteries are not a drop-in replacement for Ni-Cad batteries.
It is the responsibility of each user to ensure that each battery application system is adequately designed safe and compatible with all conditions encountered during use, and in conformance with existing standards and requirements.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Panasonic® 5-Hour Nickel-Metal Hydride Fast Charger with Batteries.

Features: This charger comes with 4 rechargeable Ni-MH 1600mAh AA Batteries. This versatile charger can charge both Ni-MH and Ni-Cd (nickel cadmium) batteries in AA and AAA sizes. These New Ni-MH batteries are the most powerful rechargeable batteries designed by Panasonic to date. They have no memory effect whatsoever and can be charged multiple times. Can use P060-ND (AA) or P051-ND (AAA) as additional batteries if needed. Not for use with flat top batteries.

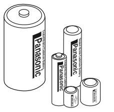
P119-ND (Charger with 4 AA batteries) **$36.28**

P001-ND NIMH Technical Handbook **$2.95**

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	(Regular Version) Digi-Key Part No.	Pricing 1	10	Carton	(Solder Tabbed Version) Digi-Key Part No.	Pricing 1	10	Carton	Panasonic Part No.
AAA	1.2	550	.41 x 1.75 (10.5 x 44.5)	0.42 (12)	55	550	1.2	P011-ND†	2.48	22.35	2056.13/1380	P011T-ND	2.78	25.05	2304.53/1380	HHR-55AAA
AAA	1.2	650	.41 x 1.75 (10.5 x 44.5)	0.42 (12)	65	450	1.7	P051-ND	2.81	25.27	1952.63/1380	P051T-ND	3.11	27.97	2201.03/1380	HHR-70AAA
L-AAA	1.2	650	.41 x 1.97 (10.5 x 50.0)	0.49 (14)	65	650	1.2	P012-ND†	3.58	32.26	2154.70/1404	P012T-ND	3.88	34.96	2378.78/1404	HHR-65TA
4/5 AA	1.2	1150	.57 x 1.69 (14.5 x 43.0)	0.81 (23)	115	1150	1.2	P013-ND†	2.84	25.58	1364.27/800	P013T-ND	3.14	28.28	1508.28/800	HHR-120AA
AA	1.2	1300	.57 x 1.97 (14.5 x 50.0)	0.92 (26)	130	1300	1.2	P014-ND†	3.24	29.20	1557.35/800	P014T-ND	3.54	31.90	1701.36/800	HHR-130AA
AA	1.2	1500	.57 x 1.97 (14.5 x 50.0)	0.92 (26)	150	1500	1.2	P015-ND†	2.65	23.83	1215.20/765	P015T-ND	2.95	26.53	1352.90/765	HHR-150AA
AA	1.2	1550	.57 x 1.97 (14.5 x 50.0)	0.95 (27)	155	1500	1.2	P060-ND	2.95	26.53	1414.80/800	P060T-ND	3.25	29.23	1558.80/800	HHR-160AA
4/5 A	1.2	2000	.67 x 1.71 (17.0 x 43.5)	1.20 (34)	200	2000	1.2	P010-ND†	4.08	37.05	1328.46/540	P010T-ND	4.41	40.05	1436.03/540	HHR-200A
A	1.2	2100	.67 x 1.97 (17.0 x 50.0)	1.34 (38)	210	2100	1.2	P017-ND†	4.82	43.82	2094.71/720	P017T-ND	5.15	46.82	2238.13/720	HHR-210A
4/3 A	1.2	3700	.67 x 2.64 (17.0 x 67.0)	1.87 (53)	370	2000	2.2	P018-ND†	5.70	51.81	1857.52/540	P018T-ND	6.03	54.81	1965.09/540	HHR-380A
4/5 SC	1.2	2000	.91 x 1.34 (23.0 x 34.0)	1.48 (42)	200	2000	1.2	P020-ND†	6.78	61.02	1952.63/480	P020T-ND	7.08	63.72	2039.04/480	HHR-200SCP
SC	1.2	3000	.91 x 1.69 (23.0 x 43.0)	1.94 (55)	300	3000	1.2	P021-ND†	7.67	69.03	2208.96/480	P021T-ND	7.97	71.73	2295.36/480	HHR-30SCP
D	1.2	6500	1.30 x 2.39 (33.0 x 60.8)	6.00 (170)	650	6500	1.2	P019-ND†	17.43	158.48	1426.28/100	P019T-ND	17.76	161.48	1453.28/100	HHR-650DA08

† Non-extending positive terminals. * See "How To Order" for note on shipping charges on prepaid orders.

Panasonic® Nickel Cadmium Batteries



The Panasonic nickel-cadmium battery is a rechargeable sealed nickel-cadmium alkaline cell.
Features: • Long life • Excellent discharge characteristics • Long shelf life • High-rate charging • Wide temperature range • Reliable, self-resealing vent • Sealed, strong, leakproof construction
Applications: ***For Cyclic Use:*** • Consumer applications • Office equipment • Tools • Photography • Toys & Hobby. ***For Trickle or Float Charge Use:*** • Emergency devices • Memory back-up
Special Purpose Batteries: Rapid-charge "R" Type: The "R" type cell has a specially improved negative plate with increased gas absorption characteristics. It can be subjected to controlled charging at the 1C rate and rapid-charge in 1 to 1.5 hours is possible. High-temperature "H" Type: By using a polypropylene separator, the "H" type cell can withstand a temp. of 65°C (149°F) during use. When charging is conducted at a low charging current of C/20 to C/30 in a high-temp. ambient, the "H" type cell has a sharply improved capacity compared to a standard cell, due to special electrolyte. High-capacity "E" Type: The extra capacity cells combine a high-capacity density positive plate with a high-density paste negative plate. These cells have 20~30% more capacity than equivalent standard cells. Super High Capacity & Rapid Charge "S" Type: Super high capacity and rapid charge "S" type batteries are ideal for today's high capacity needs. They feature increased capacity & rapid charging within approx. 1 hr. The high-density positive base material of foam nickel is combined with the pasted negative plate to produce a capacity approximately 40% greater than that of the rapid-charge "R" type battery of the same size. High Rate Discharge & Rapid Charge "R/P" Type: This rapid charge, high rate discharge type has been developed through the integration of all Panasonic battery technology. It employs unique plates featuring unsurpassed gas absorption characteristics & a current-collecting system to provide charging in just 1 to 1.5 hours. The internal resistance is also greatly reduced for improved voltage characteristics during high rate discharge at approximately 10CmA.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS: SF = SAFT USA (France); VA = VARTA Germany; ER = Ever-Ready; SA = SANYO Japan; TO = Toshiba; DY = Dynacharge

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	Quick Charge (mA)	(hrs.)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference (see above for manufacture abbreviations)
Standard Type														
N	1.2	180	0.47 x 1.18 (12.0 x 30.0)	0.28 (8.0)	18	45	6.0	P112-ND	2.26	20.34	316.40/200	1244.16/1200	P-18N	—
AAA	1.2	250	0.41 x 1.75 (10.5 x 44.5)	0.35 (10)	25	75	5.0	P254-ND	2.49	22.39	348.25/200	1382.76/1380	P-25AAA	—
2/3C	1.2	1000	1.02 x 1.22 (25.8 x 31.0)	1.59 (45)	100	333	4.5	P238-ND	6.66	59.96	233.19/50	1039.35/300	P-100C	—
C	1.2	2200	1.00 x 1.94 (25.3 x 49.3)	2.65 (75)	220	730	4.5	P163-ND	6.34	57.08	88.80/20	791.54/240	P-220C	SA: KR-2000C; TO: T-180C; DY: NC1800
C	1.2	2400	1.02 x 1.97 (25.8 x 50.0)	2.65 (75)	240	1500	2.4	P108-ND†	7.47	67.21	104.55/20	931.94/240	P-240C/FT	—
D	1.2	4000	1.30 x 2.40 (33.0 x 61.0)	4.90 (139)	400	—	—	P124-ND	10.28	71.98	71.98/10	534.69/100	P-400D	SF: 4.0SC (VR4); VA: RSH4; ER: NCC350, CH4; SA: N-4000D; TO: T-400D; DY: ND4000
High Temperature Trickle Charge "H" Type														
1/3AA	1.2	110	0.57 x 0.69 (14.5 x 17.5)	0.23 (6.5)	11	—	—	P109-ND†	1.96	17.64	164.64/120	2142.72/2400	P-11AAH/FT	ER: NCC24
AA	1.2	500	0.57 x 1.97 (14.5 x 50.0)	0.74 (21)	50	—	—	P161-ND	2.28	20.52	63.84/40	948.48/800	P-50AAH	SA: KR-A4H
SC	1.2	1200	0.91 x 1.69 (23.0 x 43.0)	1.69 (48)	120	—	—	P091-ND†	3.76	33.86	263.38/100	782.60/400	P-120SCH/FT	—
C	1.2	1800	1.02 x 1.97 (25.8 x 50.0)	2.55 (73)	180	—	—	P122-ND†	6.84	61.58	95.80/20	853.94/240	P-180CH/FT	SA: KR-CH
C	1.2	2300	1.02 x 1.97 (25.8 x 50.0)	2.75 (78)	230	—	—	P090-ND†	7.84	70.58	109.80/20	978.74/240	P-230CH/FT	—
D	1.2	4000	1.30 x 2.40 (33.0 x 61.0)	4.90 (139)	400	—	—	P258-ND	10.78	75.48	75.48/10	560.69/100	P-400DH	—
High Capacity "E" Type														
D	1.2	4400	1.30 x 2.40 (33.0 x 61.0)	4.93 (140)	440	—	—	P158-ND	9.37	72.85	72.85/10	553.68/100	P-440DE	ER: NCC400
High Rate Discharge and Rapid Charge "P" Type														
SC	1.2	1200	0.91 x 1.69 (23.0 x 43.0)	1.66 (47)	120	1200	1.5	P240-ND†	3.64	32.74	254.63/100	756.60/400	P-120SCP/FT	—
Rapid Charge "R" Type														
2/3AA	1.2	300	0.57 x 1.11 (14.5 x 28.2)	0.42 (12)	30	300	1.5	P234-ND†	1.74	15.66	243.60/200	1670.40/2000	P-30AAR/FT	—
AA	1.2	600	0.57 x 1.97 (14.5 x 50.0)	0.78 (22)	60	600	1.5	P272-ND	2.48	22.32	69.44/40	1031.68/800	P-60AAR	—
AA	1.2	600	0.57 x 1.90 (14.5 x 48.3)	0.74 (21)	60	600	1.5	P229-ND†	2.25	20.21	62.86/40	933.92/800	P-60AAR/FT	—
AA	1.2	700	0.57 x 1.97 (14.5 x 50.0)	0.78 (22)	70	700	1.5	P251-ND	1.46	13.10	40.74/40	605.28/800	P-70AAR	—
AA	1.2	700	0.57 x 1.90 (14.5 x 48.3)	0.78 (22)	70	700	1.5	P253-ND†	1.66	14.90	46.34/40	688.48/800	P-70AARC/FT	—
SC	1.2	1400	0.91 x 1.69 (23.0 x 43.0)	1.69 (48)	140	1400	1.5	P233-ND†	3.06	27.56	214.38/100	637.00/400	P-140SCR/FT	—
C	1.2	2800	1.02 x 1.97 (26.0 x 50.0)	2.79 (79)	280	2800	1.5	P190-ND†	6.99	62.93	97.90/20	872.66/240	P-280CR/FT	—
D	1.2	5000	1.30 x 2.40 (33.0 x 61.0)	5.10 (145)	500	5000	1.5	P257-ND†	12.93	—	90.53/10	672.49/100	P-500DR/FT	—
High Capacity and Rapid Charge "S" Type														
AA	1.2	800	0.57 x 1.90 (14.5 x 48.3)	0.71 (20)	80	800	1.5	P097-ND†	2.21	19.85	61.74/40	917.28/800	P-80AAS/FT	—
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P252-ND	2.36	21.20	75.36/40	1002.29/800	P-100AASJ	—
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P092-ND†	2.68	24.12	75.04/40	1114.88/800	P-100AASJ/FT	—
5/4AA	1.2	1200	0.57 x 2.56 (14.5 x 65.0)	1.09 (31)	120	1200	1.5	P093-ND†	2.93	26.65	119.93/50	1061.74/600	P-120AAS/FT	—
2/3A	1.2	600	0.67 x 1.12 (17.0 x 28.5)	0.63 (18)	60	600	1.5	P235-ND†	2.78	25.02	97.30/50	1040.83/720	P-60AS/FT	—
4/5A	1.2	1500	0.67 x 1.69 (17.0 x 43.0)	0.95 (27)	140	1400	1.5	P255-ND†	4.16	37.44	524.16/180	1557.50/720	P-150AS/FT	—
A	1.2	1400	0.67 x 1.97 (17.0 x 50.0)	1.16 (33)	140	1400	1.5	P095-ND†	2.42	21.76	304.61/180	905.11/720	P-140AS/FT	—
A	1.2	1600	0.67 x 1.97 (17.0 x 50.0)	1.16 (33)	160	1600	1.5	P256-ND†	4.22	37.96	531.41/180	1579.03/720	P-160AS/FT	—
4/5SC	1.2	1200	0.89 x 1.34 (22.5 x 34.0)	1.34 (38)	120	1200	1.5	P200-ND† *NEW!*	2.99	26.89	250.95/120	745.68/480	P-120SCJS/FT	—
SC	1.2	1300	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	130	1300	1.5	P162-ND† *NEW!*	1.76	15.86	148.05/120	439.92/480	P-130SCS/FT	—
SC	1.2	1500	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	150	1500	1.5	P175-ND† *NEW!*	1.86	16.76	156.45/120	464.88/480	P-150SCS/FT	—
SC	1.2	1700	0.89 x 1.69 (22.5 x 43.0)	1.69 (48)	170	1700	1.5	P180-ND† *NEW!*	2.31	20.81	194.25/120	577.20/480	P-170SCS/FT	—
5/4SC	1.2	2300	0.91 x 1.97 (23.0 x 50.0)	2.24 (57)	230	2000	1.6	P096-ND†	7.11	63.95	596.82/120	1330.06/360	P-230SCS/FT	—

† Non-extending positive terminals. * See "How To Order" for note on shipping charges on prepaid orders.

(Continued)

Panasonic® Nickel Cadmium Batteries Solder Tabbed Version *(Cont.)*

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	Quick Charge (mA)	Quick Charge (hrs.)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing Pkg.	Pricing Carton
Standard Type (Solder Tabbed)												
N	1.2	180	0.47 x 1.18 (12.0 x 30.0)	0.28 (8.0)	18	45	6.0	P112T-ND	2.56	23.04	358.40/200	1416.96/1200
AAA	1.2	250	0.41 x 1.75 (10.5 x 44.5)	0.35 (10)	25	75	5.0	P254T-ND	2.79	25.09	446.00/200	1752.81/1380
2/3C	1.2	1000	1.02 x 1.22 (25.8 x 31.0)	1.59 (45)	100	333	4.5	P238T-ND	6.96	62.66	278.50/50	1253.25/300
C	1.2	2200	1.00 x 1.94 (25.3 x 49.3)	2.65 (75)	220	730	4.5	P163T-ND	6.64	59.78	106.28/20	956.52/240
C	1.2	2400	1.02 x 1.97 (25.8 x 50.0)	2.65 (75)	240	1500	2.4	P108T-ND	7.77	69.91	124.28/20	1118.52/240
D	1.2	4000	1.30 x 2.40 (33.0 x 61.0)	4.90 (139)	400	—	—	P124T-ND	11.08	88.66	88.66/10	664.95/100
High Temperature "H" Type (Solder Tabbed)												
1/3AA	1.2	110	0.57 x 0.69 (14.5 x 17.5)	0.23 (6.5)	11	—	—	P109T-ND	2.26	20.34	216.96/120	2757.89/2400
AA	1.2	500	0.57 x 1.97 (14.5 x 50.0)	0.74 (21)	50	—	—	P161T-ND	2.58	23.22	82.56/40	1238.40/800
SC	1.2	1200	0.91 x 1.69 (23.0 x 43.0)	1.69 (48)	120	—	—	P091T-ND	4.06	36.56	325.00/100	975.00/400
C	1.2	1800	1.02 x 1.97 (25.8 x 50.0)	2.55 (73)	180	—	—	P122T-ND	7.14	64.28	114.28/20	1028.52/240
C	1.2	2300	1.02 x 1.97 (25.8 x 50.0)	2.75 (78)	230	—	—	P090T-ND	7.77	69.91	124.28/20	1118.52/240
D	1.2	4000	1.30 x 2.40 (33.0 x 61.0)	4.90 (139)	400	—	—	P258T-ND	11.08	88.66	88.66/10	664.95/100
High Capacity "E" Type (Solder Tabbed)												
D	1.2	4400	1.30 x 2.40 (33.0 x 61.0)	4.93 (140)	440	—	—	P158T-ND	11.21	89.66	89.66/10	672.45/100
High Rate Discharge and Rapid Charge "P" Type (Solder Tabbed)												
SC	1.2	1200	0.91 x 1.69 (23.0 x 43.0)	1.66 (47)	120	1200	1.5	P240T-ND	3.94	35.44	315.00/100	945.00/400
Rapid Charge "R" Type (Solder Tabbed)												
2/3AA	1.2	300	0.57 x 1.11 (14.5 x 28.2)	0.42 (12)	30	300	1.5	P234T-ND	2.04	18.36	285.60/200	1958.40/2000
AA	1.2	600	0.57 x 1.90 (14.5 x 48.3)	0.74 (21)	60	600	1.5	P229T-ND	2.55	22.91	81.44/40	1221.60/800
AA	1.2	700	0.57 x 1.90 (14.5 x 48.3)	0.78 (22)	70	700	1.5	P253T-ND	2.21	19.85	70.56/40	1058.40/800
SC	1.2	1400	0.91 x 1.69 (23.0 x 43.0)	1.69 (48)	140	1400	1.5	P233T-ND	3.36	30.26	269.00/100	968.40/480
SC	1.2	1800	0.91 x 1.69 (23.0 x 43.0)	1.73 (49)	180	1800	1.5	P089T-ND	4.99	44.89	399.00/100	1197.00/400
C	1.2	2800	1.02 x 1.97 (26.0 x 50.0)	2.79 (79)	280	2800	1.5	P190T-ND	7.29	65.63	102.10/20	910.10/240
D	1.2	5000	1.30 x 2.40 (33.0 x 61.0)	5.10 (145)	500	5000	1.5	P257T-ND	13.23	—	105.86/10	793.95/100
Super High Capacity and Rapid Charge "S" Type (Solder Tabbed)												
AA	1.2	800	0.57 x 1.90 (14.5 x 48.3)	0.71 (20)	80	800	1.5	P097T-ND	2.51	22.55	80.16/40	1202.40/800
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P092T-ND	3.46	31.10	110.56/40	1658.40/800
5/4AA	1.2	1200	0.57 x 2.56 (14.5 x 65.0)	1.09 (31)	120	1200	1.5	P093T-ND	3.26	29.65	133.43/50	1181.26/600
2/3A	1.2	600	0.67 x 1.12 (17.0 x 28.5)	0.63 (18)	60	600	1.5	P235T-ND	3.08	27.72	123.20/50	1330.56/720
4/5A	1.2	1500	0.67 x 1.69 (17.0 x 43.0)	0.95 (27)	140	1400	1.5	P255T-ND	4.46	40.14	642.24/180	1926.72/720
A	1.2	1400	0.67 x 1.97 (17.0 x 50.0)	1.16 (32)	140	1400	1.5	P095T-ND	2.72	24.46	342.41/180	1017.43/720
A	1.2	1600	0.67 x 1.97 (17.0 x 50.0)	1.16 (33)	160	1600	1.5	P256T-ND	4.52	40.66	650.52/180	1951.56/720
4/5SC	1.2	1200	0.89 x 1.34 (22.5 x 34.0)	1.34 (38)	120	1200	1.5	P200T-ND *NEW!*	3.29	29.59	276.15/120	820.56/480
SC	1.2	1300	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	130	1300	1.5	P162T-ND *NEW!*	2.06	18.56	173.25/120	514.80/480
SC	1.2	1500	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	150	1500	1.5	P175T-ND *NEW!*	2.16	19.46	181.65/120	539.76/480
SC	1.2	1700	0.89 x 1.69 (22.5 x 43.0)	1.69 (48)	170	1700	1.5	P180T-ND *NEW!*	2.61	23.51	219.45/120	652.08/480
5/4SC	1.2	2300	0.91 x 1.97 (23.0 x 50.0)	2.24 (57)	230	2000	1.6	P096T-ND	7.41	66.65	622.02/120	1386.22/360

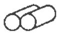
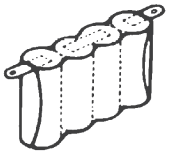
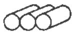
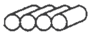
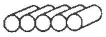
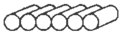
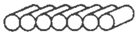
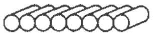
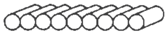
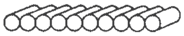
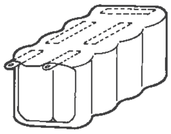
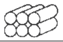
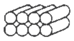
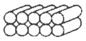
* See "How To Order" for note on shipping charges on prepaid orders.

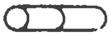
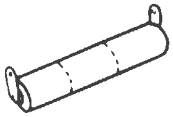
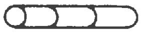
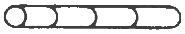
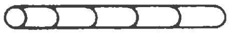
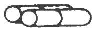
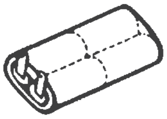
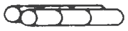
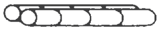
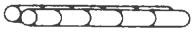
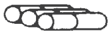
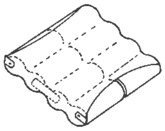
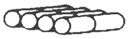
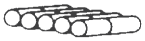
Battery Packs with Panasonic® Batteries

For Memory Backup, Power Tools, Radio Controlled and Other Endless Applications

All battery packs are made using our high quality Panasonic cells. Shown are standard configurations. If you have a special need or a configuration that you do not see, give us a call for further information. Packs are available in nearly all sizes of Nickel-Cadmium, NIMH, Lithium, and Alkaline cylinder batteries.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Style	Volts	Cells	Configurations	Diagram
F021	2.4	2		
F031	3.6	3		
F041	4.8	4		
F051	6.0	5		
F061	7.2	6		
F071	8.4	7		
F081	9.6	8		
F091	10.8	9		
F101	12.0	10		
F022	4.8	4		
F023	7.2	6		
F024	9.6	8		
F025	12.0	10		

Style	Volts	Cells	Configurations	Diagram
L021*	2.4	2		 * Styles L021, L031, L041 and L051 are not available in nickel-metal hydride batteries.
L031*	3.6	3		
L041*	4.8	4		
L051*	6.0	5		
L022	4.8	4		
L032	7.2	6		
L042	9.6	8		
L052	12.0	10		
L023	7.2	6		
L024	9.6	8		
L025	12.0	10		

HOW TO ORDER:

P ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND

Call for pricing on any standard or custom battery pack

Select Digi-Key Part No. of any Cylinder Type Battery

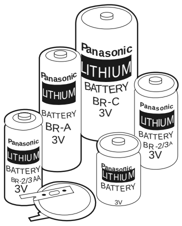
Select Style of Battery Pack From Chart

Panasonic® Lithium Batteries

The main features of lithium batteries are as follows:

- **High Voltage:** Nominal voltage is 3V, which is nearly double that of other batteries which use the aqueous electrolyte system, such as manganese dry batteries, and silver-oxide batteries.
- **High Energy Density:** Overwhelmingly high energy density, as compared with conventional batteries and other lithium batteries. The energy density is 5 to 10 times higher than that of manganese dry batteries.
- **Long Service and Shelf Life:** Since Panasonic lithium batteries are composed of chemically and thermally stable material, self-discharge is extremely small. Deterioration when stored at room temperatures is ca. 0.5% annually – worry about deterioration is unnecessary.
- **Stable Flat Discharge Voltage:** Since conductive carbon is continuously formed during discharge, internal impedance does not increase until the end of discharge, thus stabilizing discharge voltage.
- **Excellent Temperature Characteristics:** Organic solvent ensures a low electrolyte freezing point so that the batteries can be used in a wide temperature range, -40°C to 85°C is standard (-40°C to 125°C for the High Temperature Coin Type; -40°C to 70°C for Camera Type; -30° to 60°C for CR2004/P9A).
- **BR Types versus CR Types:** BR, or (CF) n/Li, batteries provide a more stable voltage particularly during the last half of discharge, while CR, or Mn02/Li, batteries provide a higher voltage during the first half. CR batteries also can provide a higher current capability than BR batteries. In storage, BR batteries perform better at high temperatures. These characteristics must be taken into consideration when selecting a battery for a particular application.
- **UL Approval:** Panasonic Lithium batteries are UL recognized. UL File No. MH12210.
- **DOT Exemption:** Panasonic lithium cells and multiple cell batteries are authorized for transportation, in commerce, by U.S. shipping exemption DOT-E7052.
- **Disposal Information:** Panasonic lithium cells are not an EPA listed hazardous waste, but may be considered a "characteristic" hazardous waste. Lithium metal, the anode component of the cells, is considered by the U.S. EPA to be hazardous when disposed because it is reactive with water. However, a cell which contains a small quantity of lithium metal is not necessarily a hazardous waste. Disposal regulations and policies are different in each State and are subject to frequent changes. Contact your local jurisdiction for specific advice on disposal.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.



PCB Terminal Type

Fig. 1

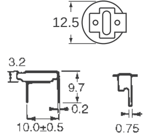


Fig. 2

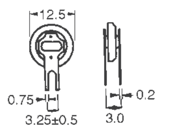


Fig. 3

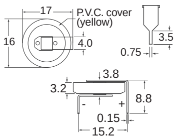


Fig. 4

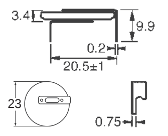


Fig. 5

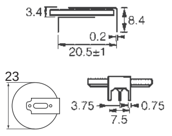


Fig. 6 (with PVC Cover)

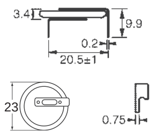


Fig. 7

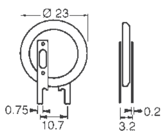


Fig. 8

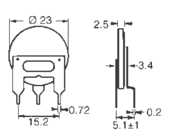


Fig. 9

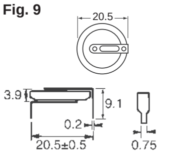
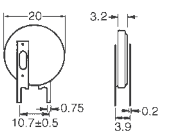


Fig. 10



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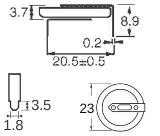


Fig. 12

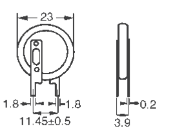
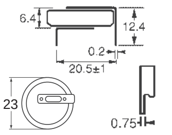


Fig. 13



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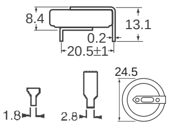

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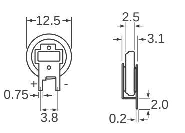
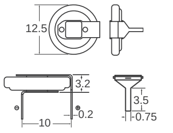


Fig. 16



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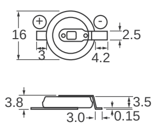

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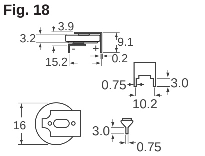

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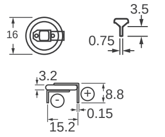


Fig. 20

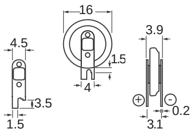


Fig. 21

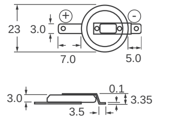


Fig. 22

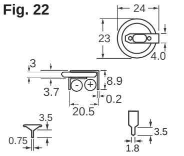
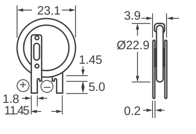


Fig. 23



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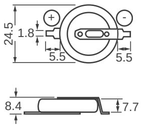

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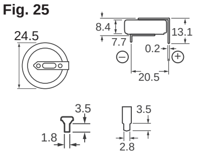


Fig. 26

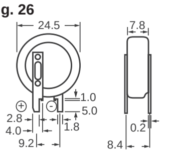


Fig.	Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Wt.* (g)	Drain Pulse (mA)	Drain Std. (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing Pkg.	Pricing Carton	Panasonic Part No.
PCB Terminal – Coin Type													
1	Coin	3	48	See Figure Above	0.8	8	0.03	P191-ND	1.75	15.75	168.00/120	1069.32/1,200	BR1225-1HC
2		3	48		0.8	8	0.03	P192-ND	1.75	15.75	280.00/200	630.00/600	BR1225-1VC
3		3	120		1.6	8	0.03	P299-ND	1.88	16.88	225.00/150	2394.00/2,400	BR1632-1HF
4		3	165		3.2	10	0.03	P142-ND	1.75	15.75	84.00/60	630.00/600	BR2325-1HB
5		3	165		3.2	10	0.03	P193-ND	1.75	15.75	84.00/60	630.00/600	BR2325-1HG
6		3	165		3.2	10	0.03	P202-ND	1.75	15.75	84.00/60	630.00/600	BR2325-1HC
7		3	165		3.2	10	0.03	P194-ND	1.75	15.75	84.00/60	630.00/600	BR2325-1VC
8		3	165		3.2	10	0.03	P195-ND	1.75	15.75	84.00/60	630.00/600	BR2325-1VG
9		3	190		2.5	10	0.03	P196-ND	1.68	15.08	80.40/60	603.00/600	BR2032-1HE
10		3	190		2.5	10	0.03	P197-ND	1.75	15.75	168.00/120	630.00/600	BR2032-1VB
11		3	255		3.2	10	0.03	P198-ND	2.30	20.70	184.00/100	1064.00/1,000	BR2330-1HE
12		3	255		3.2	10	0.03	P199-ND	2.10	18.90	168.00/100	1064.00/1,000	BR2330-1VC
13		6	165		6.4	10	0.03	P143-ND	3.63	32.63	116.00/40	870.00/400	BR2325-2HC
14		3	1000		10.5	10	0.2	P126-ND	4.38	39.38	350.00/100	2221.10/1,000	CR2477-1HF
PCB Terminal - High Temperature Coin Type (-40°C to 125°C)													
15	Coin	3	48	See Figure Above	0.8	—	0.03	P290-ND	2.12	19.25	866.25/500	3927.00/4,000	BR1225A/FA
16		3	48		1.0	—	0.03	P061-ND	2.12	19.25	207.90/120	1228.92/1,200	BR1225A/HB
17		3	120		1.5	—	0.03	P022-ND	2.08	18.68	398.40/240	4590.00/4,800	BR1632A/FA
18		3	120		1.5	—	0.03	P291-ND	2.08	18.68	249.00/150	2394.00/2,400	BR1632A/GA
19		3	120		1.5	—	0.03	P023-ND	2.08	18.68	664.00/400	2394.00/2,400	BR1632A/HA
20		3	120		1.5	—	0.03	P024-ND	2.08	18.68	664.00/400	3825.00/4,000	BR1632A/VA
21		3	255		3.2	—	0.03	P025-ND	2.35	21.15	376.00/200	2261.00/2,000	BR2330A/FA
22		3	255		3.2	—	0.03	P026-ND	2.35	21.15	376.00/200	2261.00/2,000	BR2330A/HD
23		3	255		3.2	—	0.03	P027-ND	2.35	21.15	376.00/200	2261.00/2,000	BR2330A/VA
24		3	1000		8.0	—	0.03	P028-ND	3.83	34.43	306.00/100	1848.70/1,000	BR2477A/FB
25		3	1000		8.0	—	0.03	P029-ND	3.83	34.43	306.00/100	1848.70/1,000	BR2477A/HB
26		3	1000		8.0	—	0.03	P030-ND	3.83	34.43	306.00/100	1848.70/1,000	BR2477A/VA
Pin Type													
–	Pin	3	25	4.2 x 25.9	0.55	4	0.5	P140-ND	3.75	33.75	900.00/300	4743.00/3,000	BR425
–	Pin	3	50	4.2 x 35.9	0.85	6	1.0	P139-ND	3.75	33.75	900.00/300	4781.25/3,000	BR435

* See "How To Order" for note on shipping charges on prepaid orders.

(Continued)

Computer, Camera, Standard and Standard Coin Types

Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Wt.* (g)	Drain Pulse (mA)	Drain Std. (mA)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
Computer Type												
Replacement Pack	6	1200	19.5 x 33.9 x 36.0	31.0	250	2.5	P204-ND	12.63	113.63	1454.40/144	2181.60/288	BR-P2PE
Pack with Leads		1200	22.0 x 39.0 x 41.0	45.0	—	—	P203-ND‡	15.48	139.28	619.00/50	928.50/100	BR-E3C3BCA
Camera Type												
Replacement Cyl.	3	750	15.6 x 27.0	11.0	—	20	P157-ND§	4.50	40.50	360.00/100	2872.80/1,200	CR-2PA/B
Replacement Cyl.	3	750	15.6 x 27.0	11.0	—	20	P155-ND#	5.65	50.85	54.24/12	3606.96/1,200	CR-2PA/1B
Replacement Cyl.	3	1400	17.0 x 34.5	17.0	—	20	P151-ND§	3.13	28.13	250.00/100	1662.50/1,000	CR-123APA/B
Replacement Cyl.	3	1400	17.0 x 34.5	17.0	—	20	P154-ND#	5.65	50.85	54.24/12	3606.96/1,200	CR-123APA/1B
Replacement Pack	3	3000	29.0 x 14.5 x 52.0	39.0	—	200	P212-ND#	10.12	—	108.24/12	1948.32/288	CR-V3A/1B
Replacement Pack	6	1400	17.0 x 34.0 x 45.0	38.0	—	20	P073-ND#	10.08	90.68	96.72/12	1740.96/288	2CR-5MPA/1B
Replacement Pack	6	1400	19.5 x 35.0 x 36.0	37.0	—	20	P205-ND#	10.08	—	108.81/12	2321.28/288	CR-P2PA/1B
Standard Type												
C	3	5000	26.0 x 50.0	42.0	300	5.0	P167-ND	13.13	118.13	1050.00/100	1575.00/200	BR-CSSP
C with Tabs		5000	26.0 x 50.0	42.0	300	5.0	P144-ND	14.88	133.88	1190.00/100	1785.00/200	BR-CT2SP
A		2200	17.0 x 45.5	13.5	250	2.5	P362-ND	10.38	93.38	166.00/20	3112.50/500	BR-AG
A with Tabs		2200	17.0 x 45.5	13.5	250	2.5	P362T-ND	10.68	96.08	170.80/20	3202.50/500	BR-AG-T
A		1800	17.0 x 45.5	18.0	250	2.5	P267-ND	8.75	78.75	700.00/100	4655.00/1,000	BR-A
A with Tabs		1800	17.0 x 45.5	18.0	250	2.5	P267T-ND	9.05	81.45	724.00/100	4814.60/1,000	BR-A-T
2/3 A		1450	17.0 x 33.5	13.5	250	2.5	P361-ND	5.00	45.00	1600.00/400	4256.00/1,600	BR-2/3AG
2/3 A with Tabs		1450	17.0 x 33.5	13.5	250	2.5	P361T-ND	5.30	47.70	1696.00/400	4511.36/1,600	BR-2/3AG-T
2/3 A		1200	17.0 x 33.5	13.5	250	2.5	P133-ND	4.40	39.60	70.40/20	2112.00/800	BR-2/3A
2/3 A with Tabs		1200	17.0 x 33.5	13.5	250	2.5	P201-ND	5.25	47.25	420.00/100	2793.00/1,000	BR-2/3AT-2SP
2/3 A w/2 PCB Pins		1200	17.0 x 33.5	13.5	250	2.5	P226-ND	5.25	47.25	420.00/100	2793.00/1,000	BR-2/3AE5SP
2/3 A w/3 PCB Pins		1200	17.0 x 33.5	13.5	250	2.5	P270-ND	5.25	47.25	420.00/100	2793.00/1,000	BR-2/3AE2SP
Standard Coin Type												
Coin	3	25	12.5 x 1.6	0.6	5	0.03	P182-ND	1.38	12.38	440.00/400	2652.00/4,000	BR1216
		35	12.5 x 2.0	0.7	5	0.03	P342-ND	1.38	12.38	220.00/200	2652.00/4,000	BR-1220
		48	12.5 x 2.5	0.8	5	0.03	P183-ND	1.20	10.80	384.00/400	2448.00/4,000	BR1225
		48	16.0 x 1.6	1.0	8	0.03	P184-ND	1.40	12.60	224.00/200	1409.80/2,000	BR1616
		75	20.0 x 1.6	1.5	10	0.03	P137-ND	1.25	11.25	200.00/200	1276.80/2,000	BR2016
		100	20.0 x 2.0	2.0	10	0.03	P185-ND	1.38	12.38	220.00/200	1383.20/2,000	BR2020
		110	23.0 x 2.0	2.5	10	0.03	P136-ND	1.50	13.50	240.00/200	1516.20/2,000	BR2320
		165	23.0 x 2.5	3.2	10	0.03	P135-ND	1.43	12.54	228.00/200	1516.20/2,000	BR2325
		190	20.0 x 3.2	2.5	10	0.03	P186-ND	1.24	11.25	202.50/200	1197.00/2,000	BR2032
		255	23.0 x 3.0	3.2	10	0.03	P187-ND	1.78	15.98	284.00/200	1888.60/2,000	BR2330
		500	30.0 x 3.2	5.5	10	0.03	P341-ND	2.75	24.75	440.00/200	2793.00/2,000	BR-3032
		30	10.0 x 2.5	0.7	5	0.1	P031-ND	1.13	10.13	360.00/400	2193.00/4,000	CR1025
		25	12.5 x 1.6	0.7	5	0.1	P032-ND	1.13	10.13	360.00/400	2193.00/4,000	CR1216
		35	12.5 x 2.0	1.2	5	0.1	P033-ND	1.08	9.68	344.00/400	1938.00/4,000	CR1220
		40	16.0 x1.2	0.8	5	0.1	P041-ND	2.70	24.30	432.00/200	1296.00/800	CR1612
		55	16.0 x 1.6	1.2	8	0.1	P034-ND	1.00	9.00	160.00/200	1064.00/2,000	CR1616
		75	16.0 x 2.0	1.3	8	0.1	P035-ND	.98	8.78	312.00/400	1887.00/4,000	CR1620
		125	16.0 x 3.2	1.8	8	0.1	P036-ND	1.13	10.13	360.00/400	2193.00/4,000	CR1632
		55	20.0 x 1.2	1.4	10	0.1	P037-ND	1.25	11.25	400.00/400	2448.00/4,000	CR2012
		90	20.0 x 1.6	1.7	10	0.1	P138-ND	.41	3.75	67.50/200	239.40/1,200	CR2016
		165	20.0 x 2.5	2.5	15	0.2	P188-ND	.41	3.75	67.50/200	765.00/4,000	CR2025
		220	20.0 x 3.2	3.1	15	0.2	P189-ND	.41	3.75	67.50/200	765.00/4,000	CR2032
		130	23.0 x 2.0	3.0	15	0.2	P038-ND	1.25	11.25	200.00/200	1276.80/2,000	CR2320
		265	23.0 x 3.0	4.0	15	0.2	P111-ND	1.43	12.83	228.00/200	1516.20/2,000	CR2330
		560	23.0 x 5.4	5.9	15	0.2	P117-ND	1.98	17.78	158.00/100	997.50/1,000	CR2354
		100	24.5 x 1.2	2.0	10	0.2	P042-ND	3.25	29.25	520.00/200	1560.00/800	CR2412
		620	24.5 x 5.0	6.3	10	0.2	P340-ND	1.38	12.38	110.00/100	780.00/1,000	CR-2450
		1000	24.5 x 7.7	10.5	10	0.2	P120-ND	3.00	27.00	240.00/100	1516.20/1,000	CR2477
		500	30.0 x 3.2	7.1	15	0.2	P121-ND	2.58	23.18	412.00/200	2606.80/2,000	CR3032

* See "How To Order" for note on shipping charges on prepaid orders. ‡ Has internal 6.8K ohm resistor in series. # Retail Card package. § Bulk package.

Vanadium Pentoxide Lithium Rechargeable Batteries

Features:

- One high-voltage battery to serve your back up needs. This single, compactly designed, cost-effective 3V battery does the work of three 1.2V Ni-Cd or two capacitors. • Months of continuous use as a backup. The VL3032 has a nominal electrical capacity of 100mAh which translates into 10,000 hours with a microprocessor load of 10 µA.

Applications:

- **Memory Backup:** Facsimiles, ECRs, telephones, typewriters, sequencers, VTRs, video cameras, personal computers, memory cards, tuners.

Fig. 1

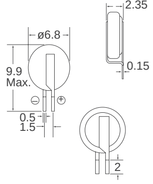


Fig. 2

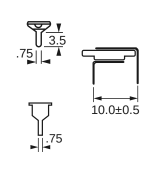


Fig. 3

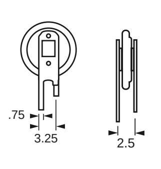


Fig. 4

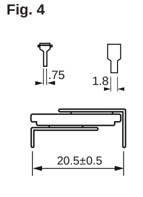


Fig. 5

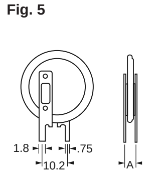


Fig. 6

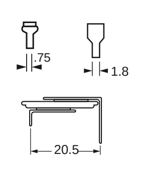


Fig. 7

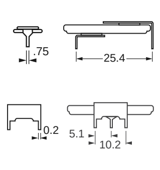


Fig. 8

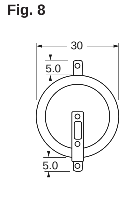


Fig.	Type	(V)	Capacity (mAh)	Dimensions (mm) Dia.	Height	A	Weight (g)	Standard Drain (mA)	Charge Current*	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
1	Coin	3	1.5	6.8	2.05	—	0.3	0.01	<0.2 mA	P048-ND	4.43	39.83	1416.00/400	9027.00/4,000	VL621-F9D
2			7	12.5	2.0	—	0.8	0.03	<0.5 mA	P079-ND	4.45	40.05	427.20/120	2840.88/1,200	VL1220-1HF
3			7	12.5	2.0	—	0.8	0.03	<0.5 mA	P080-ND	4.45	40.05	178.00/50	2840.88/1,200	VL1220-1VC
4			20	20.0	2.0	—	2.2	0.07	<1.5 mA	P081-ND	4.75	42.75	456.00/120	1710.00/600	VL2020-1HF
5			20	20.0	2.0	2.7	2.2	0.07	<1.5 mA	P082-ND	4.75	42.75	456.00/120	1710.00/600	VL2020-1VC
6			30	23.0	2.0	—	2.8	0.10	<2.0 mA	P083-ND	5.85	52.65	280.80/60	2106.00/600	VL2320-1HF
5	Coin	3	30	23.0	2.0	2.7	2.8	0.10	<2.0 mA	P084-ND	5.85	52.65	280.80/60	2106.00/600	VL2320-1VC
6			50	23.0	3.0	—	3.7	0.10	<2.0 mA	P085-ND	7.38	66.38	354.00/60	2655.00/600	VL2330-1HF
5			50	23.0	3.0	3.7	3.7	0.10	<2.0 mA	P086-ND	7.38	66.38	354.00/60	2655.00/600	VL2330-1VC
7			100	30.0	3.2	—	6.3	0.20	<4.0 mA	P087-ND	9.00	81.00	432.00/60	3240.00/600	VL3032-1GUF
8			100	30.0	3.2	—	6.3	0.20	<4.0 mA	P088-ND	9.00	81.00	720.00/100	3240.00/600	VL3032-1F2

* Charge Voltage = 3.4 ± 0.15V

Lithium Batteries

Lithium Thionyl Chloride (Li/SOCl$_2$) Cell:
Tadiran Lithium Thionyl Chloride cells offer enduring quality. They are a superior power source, combining the highest energy density and voltage, longest service life, lowest self-discharge, plus the widest temperature range of any battery commercially available.

These cells are ideally suited to provide long lasting power solutions for critical applications, including high tech electronics, military, consumer appliances, even state-of-the-art wireless communications. Tadiran batteries last by far longer than conventional cells, making them ideal for remote, portable, or seldom used equipment.

TL-51XX MBU Series:
- Very low self discharge rate
- Suited for long-term operation at low current levels with long stands
- Intermittent discharge with medium current level, provided that the average current exceeds the active current level

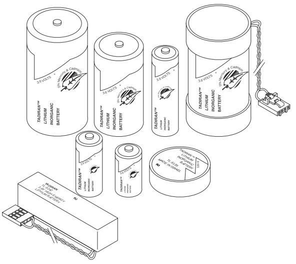
TL-2XXX XTRA™ Series:
- Excellent shelf life (10 years)
- Very low self-discharge
- Major improvement of voltage delay at the start of discharge at medium current levels (TMV)
- Intermittent discharge at medium current levels

TL-59XX XTRA™ High Capacity Series:
- High capacity batteries for long term applications at low currents
- For use in wireless sensors, utility meters, RFID tags, toll tags for toll road pricing, etc.

Applications:
The following list represents actual applications where Tadiran Lithium cells and batteries are already being used as a main or backup source of energy:
- Utility meters and A.M.R. equipment
- PC computers and data loggers
- CMOS memory and RTC backup
- Toll tags and RFID transponders
- Programmable logic controllers
- Wireless alarm sensors
- Sea buoys and remote monitoring systems

UL Approval:
Tadiran Lithium Thionyl Chloride cells and batteries are UL recognized. UL File No. MH12193.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.



Dim. in mm

Fig. 1 — Standard

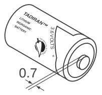


Fig. 2 — Axial Pins

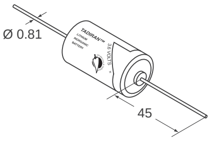


Fig. 3 — Solder Tabs

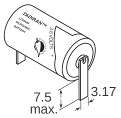


Fig. 4

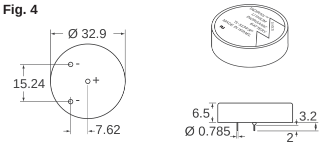


Fig. 5

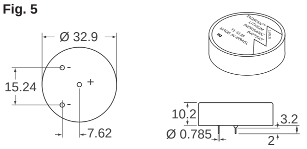


Fig. 6

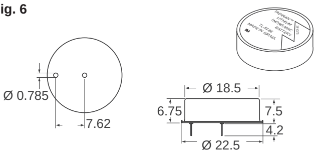
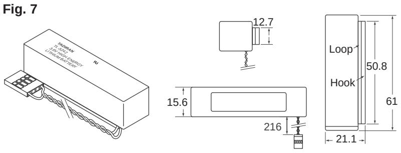
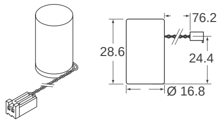


Fig. 7



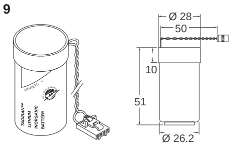
Connector Type
Housing: BERG 71627-001
Contacts: BERG 47565-002

Fig. 8



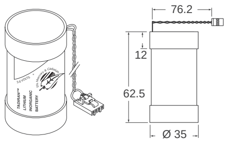
Connector Type
IDC 1308-102-426

Fig. 9



Connector Type
Housing: Molex 50-57-9402
Contacts: Molex 16-02-0086

Fig. 10



Connector Type
Housing: Molex 50-57-9402
Contacts: Molex 16-02-0086

Fig.	Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Weight* (g)	Nominal Discharge Current (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing Carton	Tadiran Part No.
						MBU Series					
1 2	1/2AA 1/2AA with Leads	3.6	950	14.5 x 25.2	9	0.5	439-1002-ND 439-1003-ND	4.50 4.80	41.63 44.40	1631.25/500 1044.00/300	TL-5101/S TL-5101/P
1 2	AA AA with Leads	3.6	2,100	14.5 x 50.5	17.4	2.0	439-1012-ND 439-1013-ND	5.50 5.80	50.88 53.65	1993.75/500 2102.50/500	TL-5104/S TL-5104/P
4	1/10D	3.6	1,000	See Figure	16.8	0.5	439-1023-ND	5.90	54.58	2994.25/700	TL-5134/SP
5	1/6D	3.6	1,700	See Figure	21.5	0.5	439-1024-ND	6.50	60.13	2639.00/560	TL-5135/SP
6	BEL	3.6	400	See Figure	5.3	0.3	439-1025-ND	4.20	38.85	1827.00/600	TL-5186
						XTRA™ Series					
1 2	1/2AA 1/2AA with Leads	3.6	950	14.5 x 25.2	9	1.0	439-1000-ND 439-1001-ND	4.70 5.00	43.48 46.25	1703.75/500 1087.50/300	TL-2150/S TL-2150/P
1 2	AA AA with Leads	3.6	2,100	14.5 x 50.5	17.4	2.0	439-1010-ND 439-1011-ND	5.80 6.10	53.65 56.43	2102.50/500 2211.25/500	TL-2100/S TL-2100/P
1	C	3.6	7,200	26.2 x 50	50	4.0	439-1017-ND	13.80	127.65	2208.00/200	TL-2200/S
1	D	3.6	16,500	32.9 x 61.5	92.5	5.0	439-1020-ND	17.80	164.65	1708.80/120	TL-2300/S
						XTRA™ High Capacity Series					
1 2 3	1/2AA 1/2AA with Leads 1/2AA with Tabs	3.6	1,200	14.5 x 25.2	9.2	1.0	439-1004-ND 439-1005-ND 439-1006-ND	5.50 5.80 6.00	50.88 53.65 55.50	1993.75/500 1261.50/300 1087.50/250	TL-5902/S TL-5902/P TL-5902/T
1 2 3	2/3AA 2/3AA with Leads 2/3AA with Tabs	3.6	1,650	14.5 x 33.5	11.8	1.3	439-1007-ND 439-1008-ND 439-1009-ND	6.20 6.50 6.70	57.35 60.13 61.98	2247.50/500 2356.25/500 1214.38/250	TL-5955/S TL-5955/P TL-5955/T
1 2 3	AA AA with Leads AA with Tabs	3.6	2,400	14.5 x 50.5	17.6	2.0	439-1014-ND 439-1015-ND 439-1016-ND	6.90 7.20 7.40	63.83 66.60 68.45	2501.25/500 2610.00/500 1184.00/200	TL-5903/S TL-5903/P TL-5903/T
1 3	C C with Tabs	3.6	8,500	26.2 x 50	50.5	4.0	439-1018-ND 439-1019-ND	15.50 16.20	143.38 149.85	2480.00/200 2592.00/200	TL-5920/S TL-5920/T
1 3	D D with Tabs	3.6	19,000	32.9 x 61.5	92.5	5.0	439-1021-ND 439-1022-ND	20.10 20.80	185.93 192.40	1929.60/120 1996.80/120	TL-5930/S TL-5930/T
						Standard Battery Packs with Connectors					
7	MBU - AA	3.6	2,100	See Figure	27	2.0	439-1026-ND	8.00	74.00	1740.00/300	TL-5242/W
8	XTRA™ - 1/2AA	3.6	950	16.8 x 28.6	12.5	1.0	439-1027-ND	7.90	73.08	3264.68/570	TL-5276/W
9	XTRA™ High Cap - C	3.6	8,500	26.2 x 51	55	4.0	439-1029-ND	19.50	180.38	3120.00/200	TL-5920/B
10	XTRA™ High Cap - D	3.6	19,000	35 x 62.5	105	5.0	439-1028-ND	23.60	218.30	3776.00/200	TL-5930/F

* See “How to Order” for note on shipping charges on prepaid orders.

Panasonic® Manganese Lithium Rechargeable Batteries (ML Series)

Features:

- **Charging at voltage levels even under 3V**. In order to support the current trend in ICs toward lower voltages, these batteries can be charged at a 3 ±0.2 voltage level, and this makes it easier to set the charging circuits for the circuits which employ 3V ICs.
- **Large capacity for hour-after-hour back-up.**
- **Excellent withstand voltage characteristics.** These batteries can withstand the application of a continuous 3.2V voltage at a high temperature of 60°C (140°F).

Applications:

- Power source for backing up memory data in mobile telephones, personal handyphone systems, memory cards, pagers, data terminals and office automation equipment.

Fig. 1

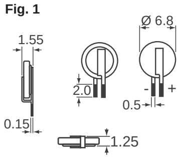


Fig. 2

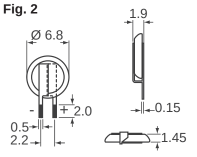


Fig. 3

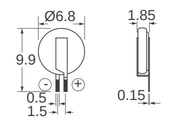


Fig. 4

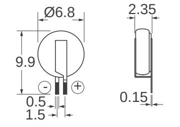


Fig. 5

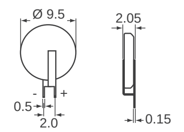


Fig. 6

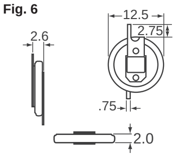


Fig. 7

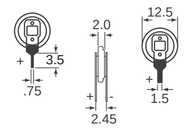


Fig. 8

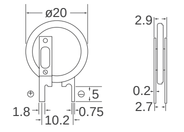


Fig. 9

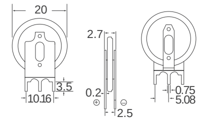


Fig. 10

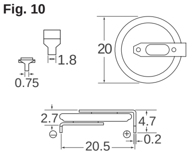
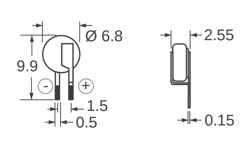


Fig.	Type	(V)	Capacity (mAh)	Dim. (mm) Dia.	Height	Weight (g)	Drain Std. (mA)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
1	Coin	3	2.6	6.8	1.25	0.15	0.01	P298-ND	2.13	19.13	850.00/500	5418.75/5,000	ML612S/F9D
2			3.4	6.8	1.45	0.17	0.01	P297-ND	2.13	19.13	850.00/500	5418.75/5,000	ML614S/F9F
3			2.9	6.8	1.55	0.20	0.01	P043-ND	2.13	19.13	850.00/500	5418.75/5,000	ML616S/F9D
4			5.0	6.8	2.05	0.30	0.01	P044-ND	2.13	19.13	680.00/400	4335.00/4,000	ML621S/F9D
5			11.0	9.5	2.05	0.50	0.03	P296-ND	2.75	24.75	880.00/400	4335.00/4,000	ML920S/F9D
6			17.0	12.5	2.0	0.80	0.03	P295-ND	2.50	22.50	500.00/250	6375.00/5,000	ML1220/F1A
7			17.0	12.5	2.0	0.80	0.03	P294-ND	2.50	22.50	500.00/250	6375.00/5,000	ML1220/V1A
8			45.0	20	2.0	2.20	0.10	P045-ND	2.80	25.20	448.00/200	5712.00/4,000	ML2020/V1A
9			45.0	20	2.0	2.20	0.10	P046-ND	2.80	25.20	448.00/200	5712.00/4,000	ML2020/G1A
10			45.0	20	2.0	2.20	0.10	P047-ND	3.63	—	195.75/60	6854.40/4,800	ML2020/H1C

Niobium Titanium Lithium Rechargeable Battery



Features:

Designed for very low voltage ICs. Nominal voltage is 2.0V. These can be charged and discharged at temperatures as high as 60°C (140°F). Charging voltage is 2.5 volts.

Applications:

Power source for backing up memory data in cellular phones, PDAs (personal digital assistants), portable communication devices, and other handheld applications.

Type	Voltage (V)	Capacity (mAh)	Dim. (mm) Dia.	Height	Weight (g)	Drain Std. (mA)	Digi-Key Part No.	Price Each 1	10	400	Panasonic Part No.
Coin	2.0	4.0	6.8	2.55	0.25	0.01	P009-ND	3.75	3.38	3.00	NBL621/F9D

Flashlights and Light Scopes

TASKMASTER™ Flashlights

These Heavy-Duty Lights are durable enough for even the most demanding jobs.

Features: • Performance tested by independent testing laboratory • Durable scratch-resistant high-tech plastic withstands drop tests from 7 feet onto concrete pavement • Powerful Krypton bulb for brighter and whiter light • Heavy-Duty switch tested to operate over 10,000 cycles • Lifetime warranty on flashlight and switch (on manufacturer defects only).

Specifications:

BF-310PA/K-A: (Fig.1)
• **Weight:** 8.53 oz. • **Batteries:** 2 Heavy-Duty "AA" size • **Brightness:** Light output of over 50 candles at 5 feet (1.52 meters)

BF-110PA/K-A: (Fig.2)
• **Weight:** 1.16 lbs. • **Batteries:** 2 Heavy-Duty "D" size • **Brightness:** Light output of over 100 candles at 5 feet (1.52 meters)

TASKMASTER™ Head Light (Fig.3)

Features: • Powerful hands-free operation • Designed for comfort with wide, adjustable elastic headband and padded headrest • Heavy-duty rugged, impact resistant plastic housing and durable switch • Pivoting lamp has high intensity bulb with hands-free operation for any job indoors or out • Lightweight 5.7 oz. (161.59 grams) • Operates on two "AA" batteries (P107-ND sold separately) • Spare bulb included.

Fig. 1

Fig. 2

Fig. 3

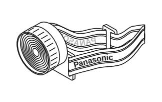
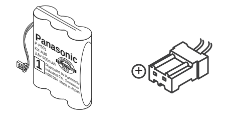


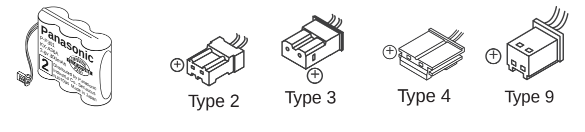
Fig.	Description	Digi-Key Part No.	Price Each	Panasonic Part No.
1	Flashlight......................................	P056-ND	6.42	BF-310PA/KA
2	Flashlight......................................	P057-ND	7.81	BF-110PA/KA
3	Head Light	P059-ND	11.95	BF-178PA/1B

Replacement Telephone Packs

Type 1



Type 2, 3, 4, and 9



Type 43 and 92

Pan. Type	(V)	Cap. C/5 (mAh)	Dimensions — H x L x T Inch (mm)	Weight Oz. (g)	Digi-Key Part No.	Price Each	Panasonic Part No.
1	3.6	600	1.88 x 1.65 x 0.55 (47.8 x 41.9 x 14.0)	2.37 (67.2)	P072-ND	6.35	P-P501
2	3.6	300	1.09 x 1.65 x 0.55 (27.7 x 41.9 x 14.0)	1.47 (41.7)	P071-ND	6.35	P-P301
3	3.6	300	1.09 x 1.65 x 0.55 (27.7 x 41.9 x 14.0)	1.47 (41.7)	P070-ND	6.35	P-P302
4	3.6	300	1.09 x 1.65 x 0.55 (27.7 x 41.9 x 14.0)	1.47 (41.7)	P069-ND	6.35	P-P303
9	3.6	300	1.09 x 1.65 x 0.55 (27.7 x 41.9 x 14.0)	1.47 (41.7)	P066-ND	6.35	P-P304
43	3.6	600	2.16 x 1.77 x 0.66 (54.9 x 45.0 x 16.8)	2.69 (72.6)	P065-ND	22.39	P-P543
92	3.6	600	2.08 x 1.68 x 0.58 (52.8 x 42.7 x 14.7)	2.52 (71.4)	P064-ND	16.92	P-P592

Replacement Packs available for the following telephone brands.

AT&T / Lucent
Bell Phone
Bell South
Cobra
Code-A-Phone
Conair
General Electric
Goldstar
GTE
Northwestern Bell
Pacific Bell
Pactel
Panasonic
Phone Mate
Radio Shack
Sanyo
Sears
Sharp
Sony
Southwestern Bell Freedom Phone
Tele-Phone
Toshiba
Uniden

To obtain the correct Panasonic cross reference number, please call our technical staff at 1-800-344-4539 with the model number of your phone.

Battery Holders

Fig. 1

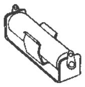


Fig. 2

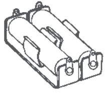


Fig. 3

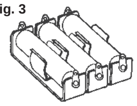


Fig. 4

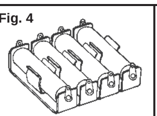


Fig. 5

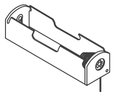


Fig. 6

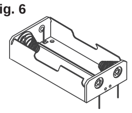


Fig. 7

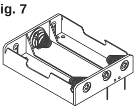


Fig. 8

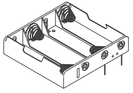


Fig. 9

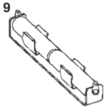


Fig. 10

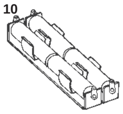


Fig. 11

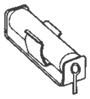


Fig. 12

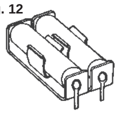


Fig. 13

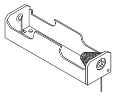


Fig. 14

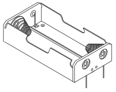


Fig. 15

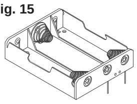


Fig. 16

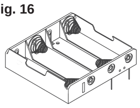


Fig. 17

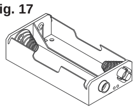


Fig. 18

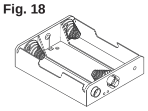


Fig. 19

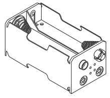


Fig. 20

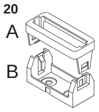


Fig. 21

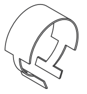


Fig. 22

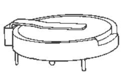


Fig. 23

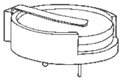


Fig. 24

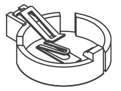
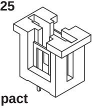
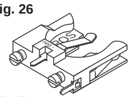


Fig. 25



Compact

Fig. 26



Slimline

Fig. 27

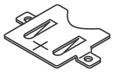


Fig. 28

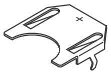


Fig. 29

Uses
CR2032
Coin Cell
Lithium
Batteries

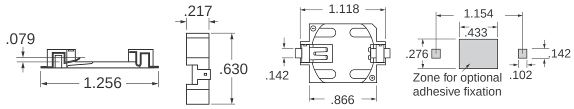


Fig. 30

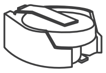


Fig. 31

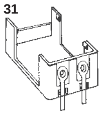


Fig. 32

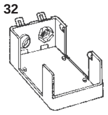


Fig. 33

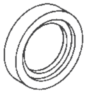


Fig. 34

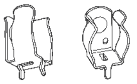


Fig. 35

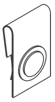


Fig. 36

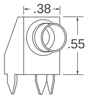


Fig. 37

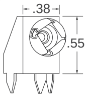


Fig. 38

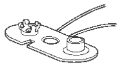


Fig. 39

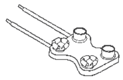


Fig. 40

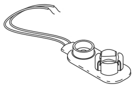


Fig. 41

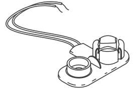


Fig. 42

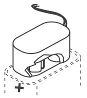


Fig. 43

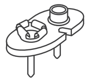


Fig. 44

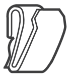
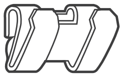


Fig. 45



		Digi-Key	Price Each		
Fig.	**Desc.**	**Part No.**	**1**	**10**	**100**
*“N” Cell Holders**					
1	1 Cell	154K-ND	1.43	1.08	.88
2	2 Cell	155K-ND	2.95	2.22	1.81
3	3 Cell	156K-ND	6.12	4.59	3.58
*“AAA” Cell Holders**					
1	1 Cell	137K-ND	1.74	1.31	1.07
2	2 Cell	138K-ND	3.09	2.32	1.96
3	3 Cell	169K-ND	4.52	3.39	2.66
4	4 Cell	170K-ND	6.18	4.64	3.65
“AAA” Cell Holders - PC Mount††					
5	1 Cell	2466K-ND	.72	.67	.61
6	2 Cell	2468K-ND	.75	.69	.64
7	3 Cell	2479K-ND	1.00	.93	.85
8	4 Cell	2481K-ND	1.10	1.02	.94
“AAA” Cell Holders - 6” Wire Leads††					
5	1 Cell	2467K-ND	.72	.67	.61
6	2 Cell	2469K-ND	.75	.69	.64
7	3 Cell	2480K-ND	1.00	.93	.85
8	4 Cell	2482K-ND	1.10	1.02	.94
*“AA” Cell Holders**					
1	1 Cell	139K-ND	1.13	.85	.70
2	2 Cell	140K-ND	2.28	1.71	1.40
3	3 Cell	171K-ND	3.62	2.72	2.13
4	4 Cell	182K-ND	5.14	3.86	3.17
9	2 Cell	189K-ND	1.92	1.44	1.18
10	4 Cell	192K-ND	3.49	2.62	2.03
11	1 Cell	2222K-ND	1.42	1.07	.93
12	2 Cell	2223K-ND	2.42	1.82	1.56
“AA” Cell Holders - PC Mount††					
13	1 Cell	2460K-ND	.72	.67	.61
14	2 Cell	2462K-ND	.75	.69	.64
15	3 Cell	2464K-ND	1.00	.93	.85
16	4 Cell	2477K-ND	1.10	1.02	.94
“AA” Cell Holders - 6” Wire Leads††					
13	1 Cell	2461K-ND	.72	.67	.61
14	2 Cell	2463K-ND	.75	.69	.64
15	3 Cell	2465K-ND	1.00	.93	.85
16	4 Cell	2478K-ND	1.10	1.02	.94
“AA” Cell Holders - with Snap-On Connector††					
17	2 Cell	2474K-ND	.75	.69	.64
18	3 Cell	2475K-ND	1.00	.93	.85
19	4 Cell	2476K-ND	1.10	1.02	.94
Cell Lithium Holders - PC Mount††					
20B	1/2 AA	108KK-ND	1.15	1.06	.62
20B	AA	1028K-ND	1.18	1.09	.64
20B	2/3 A	1029K-ND	1.18	1.09	.64
Cell Lithium Retaining Cover††					
20A	1/2 AA	108CK-ND	.38	.36	.35
20A	AA	1028CK-ND	.46	.43	.40
21	2/3 A	1029CK-ND	.44	.41	.38
“C” Cell Holders†*					
1	1 Cell	173K-ND	1.39	1.05	.86
2	2 Cell	174K-ND	2.42	1.82	1.48
3	3 Cell	187K-ND	5.46	4.10	3.21
9	2 Cell	185K-ND	2.12	1.60	1.31
10	4 Cell	196K-ND	4.05	3.04	2.40
11	1 Cell	2224K-ND	1.45	1.09	.89
12	2 Cell	2225K-ND*	2.59	1.95	1.59
“D” Cell Holders†*					
1	1 Cell	175K-ND	1.61	1.21	.96
2	2 Cell	176K-ND	2.82	2.12	1.73
3	3 Cell	190K-ND	6.21	4.66	3.66
9	2 Cell	186K-ND	2.42	1.82	1.48
10	4 Cell	200K-ND	4.89	3.67	2.57
11	1 Cell	2226K-ND	2.01	1.51	1.22
12	2 Cell	2227K-ND	3.17	2.39	1.95
24mm Coin Cell Lithium “PC” Holders					
22	1 Cell	105K-ND	1.12	.84	.75
23	2 Cell	1025K-ND	.98	.87	.82
20mm Coin Cell Lithium “PC” Holders					
22	1 Cell	106K-ND	1.12	.84	.75
22	1 Cell	103K-ND	1.21	1.12	.75
23	2 Cell	1026K-ND	.98	.87	.82
23mm Coin Cell Lithium “PC” Holders					
22	1 Cell	107K-ND	1.12	.84	.75
23	2 Cell	1027K-ND	.98	.87	.82
12mm Coin Cell Lithium “PC” Holders					
22	1 Cell	500K-ND	1.72	1.40	1.21
16mm Coin Cell Lithium “PC” Holders					
22	1 Cell	502KE-ND	1.49	1.22	1.05
20mm Coin Cell Holder					
24	1 Cell	1066K-ND	1.21	1.12	.75
Vertical 20mm Coin Cell Holder					
25	1 Cell	1067K-ND	1.08	.96	.90
26	1 Cell	1065K-ND	1.08	.96	.90
Surface Mount Coin Cell Retainer Contacts					
27	12mm	3000K-ND	.34	.26	.23
27	20mm	3002K-ND	.35	.26	.23
27	23mm	3004K-ND	.35	.27	.24
27	24mm	3006K-ND	.36	.28	.25
Thru Hole Mount Coin Cell Retainer Contacts					
28	12mm	3001K-ND	.34	.26	.23
28	20mm	3003K-ND	.35	.26	.23
28	23mm	3005K-ND	.35	.27	.24
28	24mm	3007K-ND	.36	.28	.25
Surface Mount Coin Cell Holder - Bulk					
29	1 Cell, 20mm	1060K-ND	1.21	1.12	.75
Surface Mount Coin Cell Holder - Tape & Reel					
29	1 Cell, 20mm	1060KTR-ND	388.82/500		
Surface Mount Coin Cell Holder - Bulk					
30	1 Cell, 20mm	1061K-ND	1.63	1.51	1.00
30	2 Cell, 20mm	1062K-ND	1.63	1.51	1.00
30	1 Cell, 23mm	1071K-ND	1.63	1.51	1.00
Surface Mount Coin Cell Holder - Tape & Reel					
30	1 Cell, 20mm	1061KTR-ND	221.03/200		
30	2 Cell, 20mm	1062KTR-ND	221.03/200		
30	1 Cell, 23mm	1071KTR-ND	221.03/200		
9 Volt Holders					
31	1 Cell	1294K-ND*	1.28	.96	.80
32	1 Cell	1295K-ND††	1.23	.93	.76
Insulated Polarizing Washers					
33	Red	59K-ND	—	.08	.07
33	Black	60K-ND	—	.08	.07
“AAA” Snap-In PC Battery Clip					
34	—	82K-ND•	.38/2	.16	.13
“AA” Snap-In PC Battery Clip					
34	1 Cell	92K-ND•	.50/2	.19	.13
“AAA”, “AAAA”, “N” Snap-IN Battery Clip					
35	—	238K-ND•	.23/2	.10	.10
9 Volt “PC” Battery Clips (on board battery mount)					
36	Male	593K-ND	.27	.21	.20
37	Female	594K-ND	.33	.25	.24
9 Volt Battery Straps					
38	Single	72K-ND	.81	.73	.55
39	Dual	227K-ND	2.10	1.58	1.29
Premium 9 Volt Battery Straps (I-Style)					
40	Single, 4”	2238K-ND	.46	.43	.37
40	Single, 6”	2239K-ND	.48	.45	.38
40	Single, 8”	2240K-ND	.49	.46	.39
Premium 9 Volt Battery Straps (T-Style)					
41	Single, 4”	2241K-ND	.49	.46	.39
41	Single, 6”	2242K-ND	.50	.47	.40
41	Single, 8”	2243K-ND	.52	.49	.41
Economy 9 Volt Battery Straps (I-Style)					
40	Single, 4”	232K-ND	.28	.27	.24
40	Single, 6”	233K-ND	.29	.27	.25
40	Single, 8”	234K-ND	.30	.28	.26
Economy 9 Volt Battery Straps (T-Style)					
41	Single, 4”	235K-ND	.31	.29	.27
41	Single, 6”	236K-ND	.31	.29	.27
41	Single, 8”	237K-ND	.32	.30	.28
Shielded 9 Volt Battery Straps (I-Style)					
42	Single, 4”	84-4K-ND	.33	.31	.29
42	Single, 6”	84-6K-ND	.34	.32	.30
42	Single, 8”	84-8K-ND	.35	.33	.30
Shielded 9 Volt Battery Straps (T-Style)					
42	Single, 4”	81-4K-ND	.33	.31	.29
42	Single, 6”	81-6K-ND	.34	.32	.30
42	Single, 8”	81-8K-ND	.35	.33	.30
Vertical “9V” PC Connector					
43	—	968K-ND	.84	.77	.56
Single “AA” Cell Clip					
44	—	209K-ND•	.39/2	.16	.14
Dual “AA” Cell Clip					
45	—	210K-ND•	.59/2	.24	.21
“AAA” Snap-On Contacts					
44	—	204K-ND•	.39/2	.16	.14
45	—	202K-ND•	.59/2	.24	.21

* Cell Holders are Aluminum. †† Cell Holders are Plastic.
† “C” and “D” cell holders are dual clips only.
● Figs. 34, 35, 44 & 45 sold by the pair.

Memory Protection Devices

Fig. 1

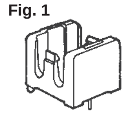


Fig. 2

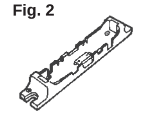


Fig. 3

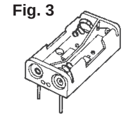


Fig. 4

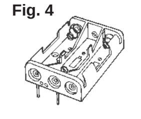


Fig. 5

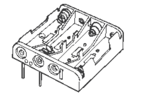


Fig. 6

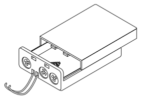


Fig. 7

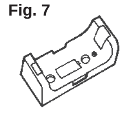


Fig. 8

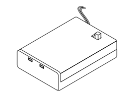


Fig. 9

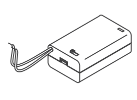


Fig. 10

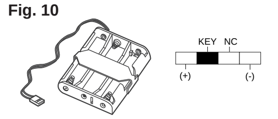


Fig. 11

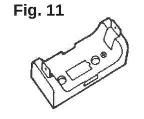


Fig. 12

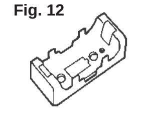


Fig. 13

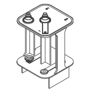


Fig. 14

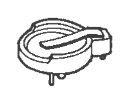


Fig. 15

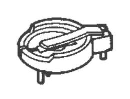


Fig. 16

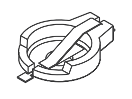


Fig. 17

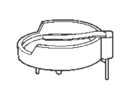


Fig. 18

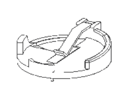


Fig. 19

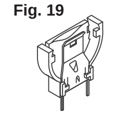


Fig. 20

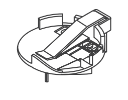


Fig. 21

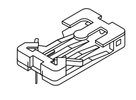


Fig. 22

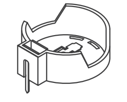


Fig. 23

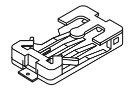


Fig. 24

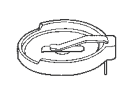


Fig. 25

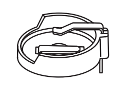
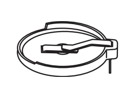


Fig. 26



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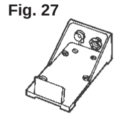

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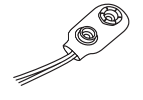

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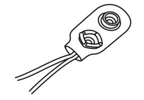

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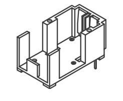

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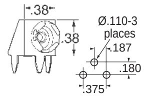

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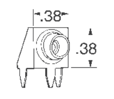

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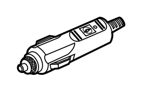

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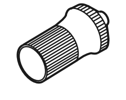

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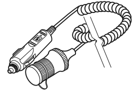

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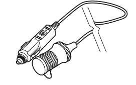

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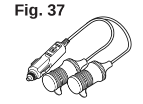

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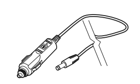

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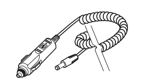

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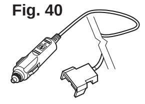

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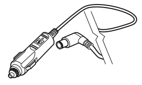

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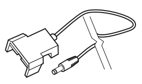

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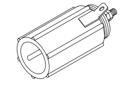

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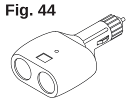


Battery Holders

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
		"1/3N" Cell Holders				
1	1	PC Mount, Solder Legs	BC1/3N-ND	.86	.78	.66
		"N" Cell Holders				
2	2	PC Mount, Solder Legs	BH2N-ND	1.94	1.75	1.60
		"AAA" Cell Holders				
3	2	PC Mount, Solder Legs	BH2AAA-PC-ND	1.35	1.22	1.01
4	3	PC Mount, Solder Legs	BH3AAA-PC-ND	2.24	2.02	1.68
3	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AAA-W-ND	1.35	1.22	1.01
4	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AAA-W-ND	2.24	2.02	1.68
5	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AAA-W-ND	2.49	2.25	1.88
6	3	6" (152.40mm) Wire Leads, Stripped-Tinned .161" (5mm) with Cover	SBH-431A-ND	.83	.75	.63
		"AA" Cell Holders				
7	1	PC Mount, Solder Legs	BHAA-2-ND *NEW!*	.73	.66	.60
3	2	PC Mount, Solder Legs	BH2AA-PC-ND	1.42	1.28	1.07
4	3	PC Mount, Solder Legs	BH3AA-PC-ND	2.39	2.16	1.80
5	4	PC Mount, Solder Legs	BH4AA-PC-ND	2.59	2.34	1.95
8	3	Battery Case for 3 AA Cells with 6" Wire Leads and Switch with Belt Clip	SBC331AS-GRN-ND	1.80	1.62	1.50
9	2	Battery Case for 2 AA Cells with 6" Wire Leads and Switch	SBH-321AS-ND	.72	.65	.60
9	3	Battery Case for 3 AA Cells with 6" Wire Leads and Switch	SBH-331AS-ND	1.03	.93	.86
9	4	Battery Case for 4 AA Cells with 6" Wire Leads and Switch	SBH-341AS-ND	1.08	.98	.90
3	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AA-W-ND	1.42	1.28	1.07
4	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AA-W-ND	2.39	2.16	1.80
5	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AA-W-ND	2.59	2.34	1.95
		Computer Clock Battery Replacement / "AA" Cell Holder				
10	3	9" Wire Leads w/Conn., Velcro Pads Included	BH3AA-211-ND	3.19	2.88	2.84
		"1/2AA" Cell Holders				
7	1	PC Mount, Solder Legs	BH1/2AA-ND	1.48	1.34	1.12
		PC Mount, Solder Legs	BH1/2AA-2-ND *NEW!*	.70	.64	.58
		"2/3A" Cell Holders				
7	1	PC Mount, Solder Legs	BH2/3A-ND	1.65	1.57	1.50
7		PC Mount, Solder Legs	BH2/3A-2-ND *NEW!*	.73	.66	.60
—		Cover for PC Mount Holder	BH2/3AC-ND	.59	.53	.45
		"C" Cell Holders				
12	1	PC Mount, Solder Legs	BHC-ND	2.02	1.82	1.76
		Lantern Battery Replacement — "D" Cell Holders				
13	4	Uses Four UM-1 or D Cells	BA4D-S-ND	2.70	2.44	2.35
		Coin Cell Holders — 12mm Cell Diameter				
14	1	PC Mount, Solder Legs, 2-2.5mm Cell Height	BH501-ND *NEW!*	1.04	.87	.80
		Coin Cell Holders — 16mm Cell Diameter				
15	1	PC Mount, Solder Legs, 1.6-3.2mm Cell Height	BH600-ND	.92	.83	.70
16		SMT, Temp. Range -40°C to +245°C	BH600SM-ND	1.13	1.02	.85
		Coin Cell Holders — 20mm Cell Diameter				
17	2	PC Mount, Solder Legs 2.5-3.2mm Cell Height	BH800S-ND	.60	.55	.54
18	1	PC Mount, Solder Legs	BH32T-C-ND	.97	.73	.62
19	1	Vertical, for BR, CR2032 Battery	BS-5-ND	.74	.67	.56
20	1	Horizontal, for BR,CR2032 Battery	BS-3-ND	.68	.62	.52
22	1	Horizontal, for 3V Lithium Battery, CR2032 or BR2032	BS-7-ND	.68	.62	.52
21	1	PC Mount, Press-to-Eject Feature, CR2032 Battery	BA2032-ND	.72	.59	.54
23		SMT, Press-to-Eject Feature, CR2032 Battery	BA2032SM-ND	.72	.59	.54
		Coin Cell Holders — 23mm Cell Diameter				
17	2	PC Mount, Solder Legs, 2.5mm Cell Height	BH906S-ND	1.01	.92	.77
18	1	PC Mount, Solder Legs, 2-3.2mm Cell Height	BH908T-C-ND	.97	.73	.62
		Coin Cell Holders — 24-25mm Cell Diameter				
24	1	PC Mount, Solder Legs, 2-3mm Cell Height	BH1000-ND	.98	.89	.74
24		PC Mount, Solder Legs, 2-3mm Cell Height	BH2430T-C-ND *NEW!*	.89	.81	.70
25		PC Mount, Solder Legs, 7.7mm Cell Height	BH1000-G-ND	1.22	1.13	.95
		Coin Cell Holders — 30mm Cell Diameter				
26	1	PC Mount, Solder Legs, 3.2mm Cell Height	BH3000-ND	1.22	1.13	.95
		9-Volt Cell Holders				
27	1	PC Mount, Solder Legs	BH9V-PC-ND	1.17	1.06	.90
27		6" (152.40mm) Lead Wires	BH9V-W-ND	.88	.80	.79
28		6" (152.40mm) Battery Snap Cable	BS6I-ND	.30	.27	.25
28		12" (304.8mm) Battery Snap Cable	BS12I-ND	.31	.28	.26
29		6" (152.40mm) Heavy Duty Battery Snap Cable	BS6I-HD-ND	.33	.31	.28
29		12" (304.8mm) Heavy Duty Battery Snap Cable	BS12I-HD-ND	.35	.32	.30
30		PC Mount, Printed Circuit Board Type w/Contacts	BC9VPC-ND	1.41	1.13	1.02
		Printed Circuit Snap-Ons (off board battery mount)				
31	—	9-Volt Female Snap-on	BSPCF-ND	.22	.20	.14
32	—	9-Volt Male Snap-on	BSPCM-ND	.19	.18	.12

Cigarette Lighter Auto Power

- 21 mm (Inside Diameter) • Auto Plugs: (Fuse 3AG Style)
- The length of the cord shown in each item is measured from the welding point

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
	Auto Power Plug				
33	ABS Fused Auto Plug with LED, Black	APP-001-ND	2.25	2.03	2.00
	ABS Fused Auto Plug with LED, Gray	APP-002-ND	2.25	2.03	2.00
	ABS Fused Auto Plug with No LED, Black	APP-003-ND	2.07	1.86	1.84
	Auto Power Assemblies				
34	Cigarette Inline Socket, Plastic	ZA2010-ND	1.13	1.02	1.00
—	Red Rubber Cap for Sockets	ZA2081-ND	.56	.51	.50
35	12' (3.66 meters) Coil Cord Assembly w/5A Fused Plug w/LED	ZA5070-ND	5.84	5.26	5.19
36	12' (3.66 meters) 18AWG Cord Assembly, w/10A Fused Plug w/LED	ZA5071-ND	6.48	5.84	5.76
37	8" (203.2mm) 18AWG Cord Assembly, w/10A Fused Plug w/LED	ZA5072-ND	6.20	5.58	5.51
38	6' (1.83 meters) 18AWG Cord, 2.1mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5073-ND	3.85	3.47	3.42
39	12' (3.66 meters) Cord, 2.1mm x 5.5mm DC Plug, with 5A Fused Plug with LED	ZA5074-ND	6.11	5.50	5.42
40	1' (0.30 meters) UL2468 Cord, Lead Acid Clip, with 2A Fused Plug with LED	ZA5076-ND	4.32	3.89	3.84
41	6' (1.83 meters) Cord, 2.1mm x 5.5mm Rt. Angle DC Plug with 3A Fused Plug with LED	ZA5077-ND	3.85	3.47	3.42
42	8" (203.2mm), UL2468 Cord, Lead Acid Clip, 2.1mm x 5.5mm DC Plug	ZA5350-ND	2.91	2.63	2.59
42	8" (203.2mm), UL2468 Cord, Lead Acid Clip, No Connector	ZA5350-B-ND	2.54	2.29	2.25
43	Panel Mount, Power Socket, Insert Lock	ZA2070-ND	3.36	3.00	2.71
43	Panel Mount, Power Socket, Screw Lock	ZA2060-ND	2.60	2.32	2.10
44	Power Plug Splitter, One Male Plug-Two Receptacle Sockets w/LED	ZA5018-ND	6.08	5.50	5.40

Memory Protection Devices “Budget Balancers” Battery Holders

Fig. 1

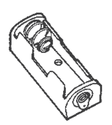


Fig. 2

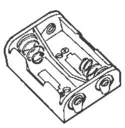
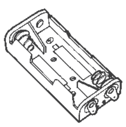


Fig. 3



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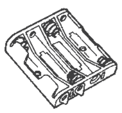
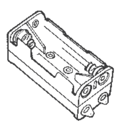


Fig. 5



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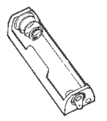

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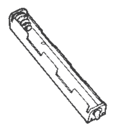

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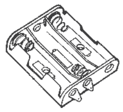

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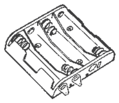

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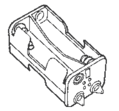
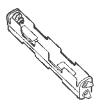


Fig. 11



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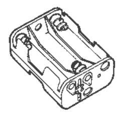
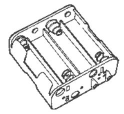


Fig. 13



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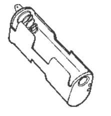


Fig. 15

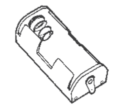


Fig. 16

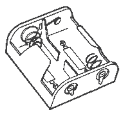


Fig. 17

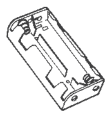


Fig. 18

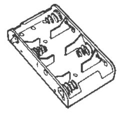


Fig. 19

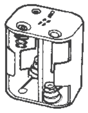


Fig. 20

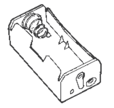


Fig. 21

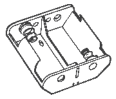


Fig. 22

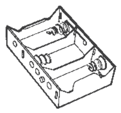


Fig. 23

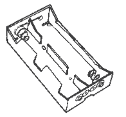


Fig. 24

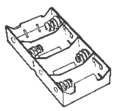
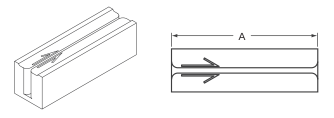


Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
		“N” Cell Holders				
1	1	Solder Tabs	BHNL-ND	.58	.52	.48
2	2	Solder Tabs	BH2NL-ND	.62	.56	.52
		“AAA” Cell Holders				
3	2	Solder Tabs	BC2AAAL-ND	.62	.56	.52
4	4	Solder Tabs	BC4AAAL-ND	1.46	1.32	1.22
5	4	Solder Tabs	BH24AAAL-ND	.99	.89	.82
3	2	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BC2AAAW-ND	.69	.63	.58
4	4	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BC4AAAW-ND	1.49	1.35	1.24
5	4	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BH24AAAW-ND	1.00	.91	.84
		“AA” Cell Holders				
6	1	Solder Tabs	BCAAL-ND	.54	.49	.46
7	2	Solder Tabs	BC12AAL-ND	.60	.54	.50
14	2	Solder Tabs	BC22AAL-ND	.58	.52	.48
8	3	Solder Tabs	BC3AAL-ND	.93	.84	.78
9	4	Solder Tabs	BC4AAL-ND	.92	.83	.76
10	4	Solder Tabs	BH24AAL-ND	.85	.77	.71
11	4	Solder Tabs	BH14AAL-ND	.71	.65	.60
12	6	Solder Tabs	BH26AAL-ND	1.20	1.08	1.00
13	8	Solder Tabs	BH48AAL-ND	1.46	1.32	1.22
14	2	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BC22AAW-ND	.59	.54	.50
8	3	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BC3AAW-ND	.96	.87	.80
9	4	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BC4AAW-ND	1.00	.91	.84
10	4	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BH24AAW-ND	.93	.84	.78
11	4	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BH14AAW-ND	.77	.70	.64
12	6	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BH26AAW-ND	1.26	1.14	1.06
13	8	6” Wire Leads, Stripped-Tinned 3/16” (4.78mm)	BH48AAW-ND	1.49	1.35	1.24
		“C” Cell Holders				
15	1	Solder Tabs	BHCL-ND	.65	.59	.54
16	2	Solder Tabs	BH2CL-ND	1.24	1.12	1.03
17	4	Solder Tabs	BH24CL-ND	1.37	1.24	1.15
18	4	Solder Tabs	BH4CL-ND	1.63	1.47	1.36
19	4	Solder Tabs	BH22CL-ND	1.75	1.58	1.46
		“D” Cell Holders				
20	1	Solder Tabs	BHDL-ND	.71	.65	.60
21	2	Solder Tabs	BH2DL-ND	1.37	1.24	1.15
22	3	Solder Tabs	BH3DL-ND	1.71	1.54	1.42
23	4	Solder Tabs	BH24DL-ND	1.71	1.54	1.42
24	4	Solder Tabs	BH4DL-ND	2.12	1.91	1.77

OMRON Magnetic Swipe Card Readers



Features: Low cost, compact, manual swipe reader **Specifications:** • Low power C-Mos technology • TTL-compactible interface (clock and data) • Cable harness included on V3B Series only • Mating connector for V3A Series is WM1727-ND (Housing) and WM1775-ND (Contact)

Color	Communication Interface	Dim. A (mm)	Cover	Supply Voltage	Track 1	Track 2	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Black	TTL (Clock + Data)	100	Yes	5 VDC	—	Read	Z2066-ND	29.35	26.42	23.48	V3B-4K
Ivory	TTL (Clock + Data)	90	Yes	5 VDC	—	Read	Z2064-ND	26.10	23.49	20.88	V3A-4K
Ivory	TTL (Clock + Data)	90	No	5 VDC	Read	Read	Z2065-ND	29.35	26.42	23.48	V3A-6

Panasonic Magnetic Card Readers

Fig. 1

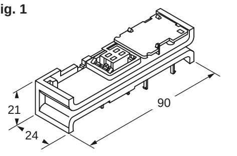
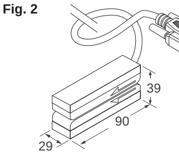


Fig. 2



Built-in RS-232 Interface

Fig. 3

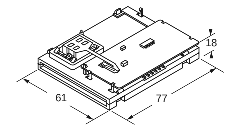
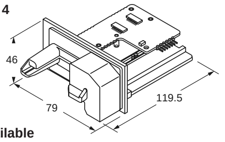
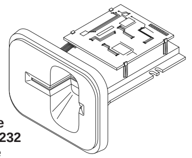


Fig. 4



Available with RS-232 Interface

Fig. 5



Available with RS-232 Interface

Manual Swipe Card Readers • Compact and lightweight designs • New high performance head mechanism. **Applications:** • Credit authorization terminals • Credit card telephones • POS terminals • Time and attendance terminals • Banking terminals (ATM/CD). **Specifications:** • **Power Supply Voltage: +**5 VDC • **Operating Temperature/Humidity:** -20°C to 60°C/10 to 90%RH • **Head Life:** PCR 100 - 300K passes, PCR102 - 500K passes

Manual Swipe Card Reader with Built-In RS-232 Interface and Decoder • Fully enclosed self (port) powered card reader featuring two track capability with long life heads. Shipped with attached 9-Pin D-Sub cable. **Specifications:** • **Power Supply Voltage:** +5 VDC • **Operating Temperature/Humidity:** -10°C to 50°C/10 to 90%RH • **Weight:** Approx. 90g

Manual Insertion Card Readers: • High precision, high reliability. **Applications:** • Credit card telephones • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals. **Specifications:** • **Power Supply Voltage:** +5 VDC • **Operating Temperature/Humidity:** -20°C to 60°C / 10 to 90%RH • **Head Life:** PCR105/109/111 - 300K Passes, PCR106/PCR107 - 500K passes

Manual Insertion Card Reader with Built-in RS-232 Interface and Decoder • For indoor applications • Shipped with 9 Pin D-Sub cable. **Specifications:** • **Power Supply Voltage:** +6 ~ +12 VDC • **Operating Temperature/Humidity:** -10°C to 50°C/10 to 90%RH

Fig.	Card Standard	Current	Card Feed Speed	Card Reading Direction	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	IS02	3mA	8 ~ 150 cm/sec.	Swipe	PCR100-ND	28.22	22.58	18.35	ZU-M1121S1
1	IS01/IS02	6mA	10 ~ 150 cm/sec.	Swipe	PCR102-ND	43.56	34.85	28.32	ZU-M1242S1
2	IS01/IS02	14mA	10 ~ 150 cm/sec.	RS-232 Swipe	PCR108-ND	117.66	94.13	76.48	ZU-M1242L4DK
3	IS02	10mA	10 ~ 120 cm/sec.	Insertion	PCR105-ND	44.60	35.68	28.99	ZU-M2121S11
4	IS02	15mA	10 ~ 120 cm/sec.	Ejection	PCR106-ND	55.86	44.69	36.31	ZU-1852MAL5
4	IS01/IS02	15mA	10 ~ 100 cm/sec.	Ejection	PCR107-ND	63.12	50.50	41.03	ZU-1870MA5T5
4	IS01/IS02	15mA	10 ~ 150 cm/sec.	Ejection	PCR109-ND	61.86	49.49	40.21	ZU-1870MA4T4
4	IS01/IS02	15mA	10 ~ 150 cm/sec.	RS-232 Eject	PCR110-ND	110.00	88.00	71.50	ZU-1870MA101
5	IS01/IS02	15mA	10 ~ 150 cm/sec.	Ejection	PCR111-ND	67.50	54.00	43.88	ZU-1890M
5	IS01/IS02	15mA	10 ~ 150 cm/sec.	RS-232 Eject	PCR112-ND	115.00	92.00	74.75	ZU-1890M101
Cable for Single Track Swipe Reader 200mm (Use with PCR100)					PCR101-ND	7.50	—	—	ZUHM106A200
Cable for Double Track Swipe Reader 200mm (Use with PCR102)					PCR103-ND	7.50	—	—	ZUHM109A200
Cover for Single/Double Manual Swipe Reader (Use with PCR100, PCR102)					PCR104-ND	5.26	—	—	U1101M041

BOURNS Multifuse Resettable Overcurrent Protectors

Bourns' Multifuse products provide overcurrent protection against circuit faults and safeguard against potential overcurrent damage of critical circuitry and loads in a vast amount of applications. This series is made of highly conductive, carbon black loaded polymer material. When a short circuit occurs, the devices start to heat rapidly until they reach a critical temperature of approximately 120°C. At this point the densely packed crystalline polymer matrix changes to an amorphous structure as it undergoes a phase transformation. Resistance increases by many orders of magnitude. The material will stay in this high-resistance state as long as the power is applied. The device will remain latched, providing continuous protection until the fault is cleared and the power is removed. With the fault removed the resistance quickly returns to its original value and the device is ready to operate again. **Agency Approvals:** The MF-R & MF-RX product families have UL, CSA, and TUV recognition to 30 volts. UL #E17454S, CSA #CA110338, and TUV #E9772255.01

MF-SM SERIES: This series is a SMT PTC Resettable Fuse designed for applications anywhere there is a low voltage power supply and a load to be protected including computers and peripherals, general electronics and automotive applications. They are fully compatible with current industry standards. Packaged per EIA 481-2 standards. **Agency Approvals:** UL #E17454S, CSA #CA110338, and TUV #E9772255.01

Fig. 1

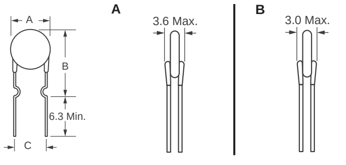


Fig. 2

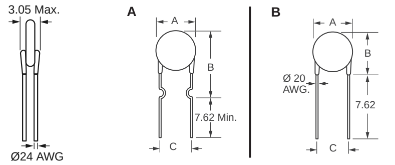


Fig. 3

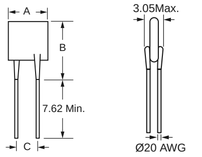


Fig. 4

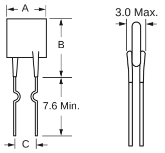


Fig. 5

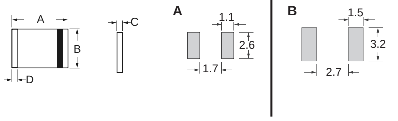


Fig. 6

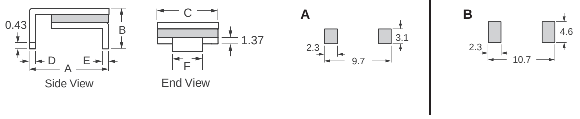


Fig.	Max Volt.	I max. Amps	Rated Current (amps @ 23°C) Hold	Trip	Initial Resist. Ohms @ 23°C Min.	Max.	Post-Trip Resist.	Dimensions (mm) A (max.)	B (max.)	C (nom.)	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Bourns Part No.
1A	90	10	0.55	1.10	0.45	0.9	2.00	10.90	14.00	5.10	MF-R055/90-0-ND	.75	.69	.63	.50	.42	MF-R055/90-0
1B	90	10	0.55	1.10	0.45	0.9	2.00	10.30	10.30	5.10	MF-R055/90U-0-ND	.75	.69	.63	.50	.42	MF-R055/90U-0
2A	30	40	1.10	2.20	0.10	0.18	0.27	8.90	14.00	5.10	MF-R110-ND	.54	.50	.45	.36	.31	MF-R110
	30	40	1.35	2.70	0.065	0.115	0.17	8.90	18.90	5.10	MF-R135-ND	.54	.50	.45	.36	.31	MF-R135
	30	40	1.60	3.20	0.055	0.105	0.15	10.20	16.80	5.10	MF-R160-ND	.60	.55	.50	.41	.36	MF-R160
	30	40	1.85	3.70	0.04	0.07	0.11	12.00	18.40	5.10	MF-R185-ND	.60	.55	.50	.40	.35	MF-R185
	60	40	0.10	0.20	2.50	4.50	7.50	7.40	12.70	5.10	MF-R010-ND	.48	.44	.40	.32	.26	MF-R010
	60	40	0.17	0.34	2.0	3.2	8.00	7.40	12.70	5.10	MF-R017-ND	.48	.44	.40	.32	.28	MF-R017
	60	40	0.20	0.40	1.50	2.84	4.40	7.40	12.70	5.10	MF-R020-ND	.51	.47	.43	.34	.29	MF-R020
	60	40	0.25	0.50	1.00	1.95	3.00	7.40	12.70	5.10	MF-R025-ND	.51	.47	.43	.34	.29	MF-R025
	60	40	0.30	0.60	0.76	1.36	2.10	7.40	13.40	5.10	MF-R030-ND	.51	.47	.43	.34	.29	MF-R030
	60	40	0.40	0.80	0.52	0.86	1.29	7.40	13.70	5.10	MF-R040-ND	.54	.50	.45	.36	.30	MF-R040
	60	40	0.50	1.00	0.41	0.77	1.17	7.90	13.70	5.10	MF-R050-ND	.54	.50	.45	.35	.31	MF-R050
	60	40	0.65	1.30	0.27	0.48	0.72	9.70	15.20	5.10	MF-R065-ND	.54	.50	.45	.36	.31	MF-R065
	60	40	0.75	1.50	0.18	0.40	0.60	10.40	16.00	5.10	MF-R075-ND	.54	.50	.45	.36	.31	MF-R075
	60	40	0.90	1.80	0.14	0.31	0.47	11.70	16.70	5.10	MF-R090-ND	.54	.50	.45	.37	.32	MF-R090
2B	60	40	1.10	2.20	0.15	0.25	0.38	13.00	18.00	5.10	MF-RX110-ND	.54	.50	.45	.36	.32	MF-RX110
	60	40	1.35	2.70	0.12	0.19	0.30	14.50	19.60	5.10	MF-RX135-ND	.57	.53	.48	.38	.34	MF-RX135
	60	40	1.60	3.20	0.09	0.14	0.22	16.30	21.30	5.10	MF-RX160-ND	.60	.55	.50	.40	.35	MF-RX160
	60	40	1.85	3.70	0.08	0.12	0.19	12.80	22.90	5.10	MF-RX185-ND	.60	.55	.50	.40	.35	MF-RX185
	60	40	2.50	5.00	0.05	0.08	0.13	21.30	26.40	10.20	MF-RX250-ND	.66	.61	.55	.43	.37	MF-RX250
	60	40	3.00	6.00	0.04	0.06	0.10	24.90	30.00	10.20	MF-RX300-ND	.69	.64	.58	.46	.40	MF-RX300
	60	40	3.75	7.50	0.03	0.05	0.08	28.40	33.50	10.20	MF-RX375-ND	.72	.66	.60	.48	.42	MF-RX375
3	30	40	0.90	1.80	0.07	0.12	0.22	7.40	12.20	5.10	MF-R090-0-009-ND	.54	.50	.45	.36	.31	MF-R090-0-009
	30	40	3.00	6.00	0.02	0.05	0.08	12.00	13.30	5.10	MF-R300-ND	.69	.64	.58	.45	.39	MF-R300
	30	40	4.00	8.00	0.01	0.03	0.05	14.40	24.80	5.10	MF-R400-ND	.72	.66	.60	.48	.42	MF-R400
	30	40	5.00	10.00	0.01	0.03	0.05	17.40	24.90	10.20	MF-R500-ND	.78	.72	.65	.52	.45	MF-R500
	30	40	6.00	12.00	0.005	0.02	0.04	19.30	31.90	10.20	MF-R600-ND	.81	.75	.68	.53	.46	MF-R600
	30	40	7.00	14.00	0.005	0.02	0.03	22.10	29.80	10.20	MF-R700-ND	.84	.77	.70	.56	.48	MF-R700
	30	40	8.00	16.00	0.005	0.02	0.03	24.21	32.90	10.20	MF-R800-ND	.87	.80	.73	.58	.51	MF-R800
	30	40	9.00	18.00	0.005	0.01	0.02	24.21	32.90	10.20	MF-R900-ND	.93	.86	.78	.61	.53	MF-R900
4	30	40	2.50	5.00	0.025	0.048	0.07	11.99	18.30	5.10	MF-R250-0-010-ND	.66	.61	.55	.44	.38	MF-R250-0-010

Fig.	Max Volt.	I max. Amps	Rated Current (amps @ 23°C) Hold	Trip	Initial Resis. Ohms @ 23°C Rmin.	Post-Trip Resist.	Dimensions (mm) A (max.)	B (max.)	C (max.)	D (max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	Bourns Part No.
5A	30.0	10	0.05	0.15	3.60	50.0	3.43	2.80	0.62	0.30	MF-USMD005CT-ND	.68	.63	.59	3,000	360.00/M	MF-USMD005-2
	30.0	10	0.10	0.30	1.36	13.0	3.43	2.80	0.62	0.30	MF-USMD010CT-ND	.68	.63	.59	3,000	360.00/M	MF-USMD010-2
	30.0	10	0.20	0.40	0.40	5.00	3.43	2.80	0.62	0.30	MF-USMD020CT-ND†	.68	.63	.59	3,000	360.00/M	MF-USMD020-2
	6.0	40	0.35	0.75	0.32	1.30	3.43	2.80	0.62	0.30	MF-USMD035CT-ND	.68	.63	.59	3,000	360.00/M	MF-USMD035-2
	13.2	40	0.50	1.00	0.23	0.80	3.43	2.80	0.62	0.30	MF-USMD050CT-ND	.71	.67	.62	3,000	380.00/M	MF-USMD050-2
	6.0	40	0.75	1.50	0.13	0.195	3.43	2.80	0.62	0.30	MF-USMD075CT-ND	.75	.68	.66	3,000	360.00/M	MF-USMD075-2
	6.0	40	1.10	2.20	0.07	0.105	3.43	2.80	0.62	0.30	MF-USMD110CT-ND	.79	.68	.66	3,000	360.00/M	MF-USMD110-2
5B	60.0	40	0.14	0.34	0.40	6.50	4.73	3.41	0.81	0.30	MF-MSMD014CT-ND	.63	.54	.50	2,000	360.00/M	MF-MSMD014-2
	30.0	80	0.20	0.40	0.40	6.00	4.73	3.41	0.81	0.30	MF-MSMD020CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD020-2
	24.0	40	0.75	1.50	0.11	0.45	4.73	3.41	0.62	0.30	MF-MSMD075/24-2CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD075/24-2
	16.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.62	0.30	MF-MSMD110/16-2CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD110/16-2
	15.0	100	0.50	1.00	0.15	1.00	4.73	3.41	0.62	0.30	MF-MSMD050CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD050-2
	13.2	100	0.75	1.50	0.11	0.45	4.73	3.41	0.62	0.30	MF-MSMD075CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD075-2
	6.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.62	0.30	MF-MSMD110CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD110-2
	6.0	100	1.25	2.50	0.035	0.14	4.73	3.41	0.48	0.30	MF-MSMD125CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD125-2
	6.0	100	1.50	3.00	0.03	0.120	4.73	3.41	0.48	0.30	MF-MSMD150CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD150-2

† UL Pending   * For Tape and Reel part number, change "CT" to "TR".

Fig.	Max Volt.	I max. Amps	Rated Current (amps @ 23°C) Hold	Trip	Initial Resis. Ohms @ 23°C Rmin.	Post-Trip Resist.	Dimensions (mm) A (max.)	B (max.)	C (max.)	D (max.)	E (max.)	F (min.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	Bourns Part No.
6A	60	10	0.30	0.60	0.900	4.80	7.98	3.18	5.44	.71	.71	2.16	MF-SM030CT-ND	.74	.63	.58	2,000	420.00/M	MF-SM030-2
	60	40	0.50	1.00	0.350	1.40	7.98	3.18	5.44	.71	.71	2.16	MF-SM050CT-ND	.74	.63	.58	2,000	420.00/M	MF-SM050-2
	33	40	1.10	2.20	0.120	0.41	7.98	3.00	5.44	.71	.71	2.16	MF-SM100/33-2CT-ND	.74	.63	.58	2,000	420.00/M	MF-SM100/33-2
	30	40	0.75	2.20	0.230	1.00	7.98	3.18	5.44	.71	.71	2.16	MF-SM075CT-ND	.74	.63	.58	2,000	420.00/M	MF-SM075-2
	15	40	1.10	2.20	0.120	0.48	7.98	3.00	5.44	.71	.71	2.16	MF-SM100CT-ND	.74	.63	.58	2,000	413.00/M	MF-SM100-2
	15	40	1.25	2.50	0.070	0.25	7.98	3.00	5.44	.71	.71	2.16	MF-SM125CT-ND	.74	.63	.58	2,000	413.00/M	MF-SM125-2
	6	40	2.60	5.20	0.025	0.075	7.98	3.00	5.44	.71	.71	2.16	MF-SM260CT-ND	.77	.66	.61	2,000	440.00/M	MF-SM260-2
6B	33	40	1.50	3.00	0.060	0.23	9.50	3.00	6.71	.71	.71	3.68	MF-SM150/33-2CT-ND	.77	.66	.61	1,500	440.00/M	MF-SM150/33-2
	15	40	1.50	3.00	0.060	0.25	9.50	3.00	6.71	.71	.71	3.94	MF-SM150CT-ND	.77	.66	.61	1,500	440.00/M	MF-SM150-2
	15	40	2.00	4.00	0.045	0.125	9.50	3.00	6.71	.71	.71	3.94	MF-SM200CT-ND	.77	.66	.61	1,500	440.00/M	MF-SM200-2
	15	40	2.50	5.00	0.024	0.085	9.50	3.00	6.71	.71	.71	3.94	MF-SM250CT-ND	.77	.66	.61	1,500	440.00/M	MF-SM250-2

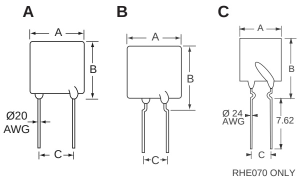
* For Tape and Reel part number, change "CT" to "TR".

PolySwitch **Resettable Devices**

PolySwitch resettable devices protect electrical and electronic circuits against excessive current, voltage, and temperature. After switching, the PolySwitch device is latched into its high-resistance, protective state by the small, sustained self-heating current. The device will reset only after it has cooled and the fault condition has been corrected, thus avoiding continuous cycling that could cause circuit damage. The device requires no manual resetting or replacement.

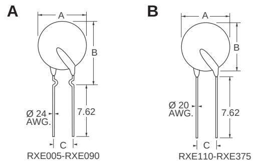
Definitions: Maximum Voltage: The highest voltage the device can withstand (in its tripped state) without damage. Hold Current: The maximum continuous current that will not cause the device to trip at 20°C. Trip Current: The minimum continuous current that will cause the device to trip at 20°C. Maximum Current: The largest fault current, at rated voltage, the device can interrupt without being damaged. Maximum R: Maximum non-tripped resistance of the device.

Fig. 1 — RGE and RHE Series



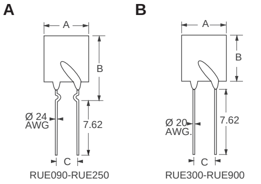
This product series can be used in a wide variety of automotive, computer and general electronics applications. The RGE devices feature high current carrying capability (up to 13 amps) in a small package with fast trip times.

Fig. 2 — RXE Series



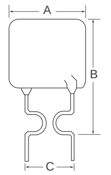
These products function as the general purpose line of circuit protection devices and are well suited for power supplies, alarm systems, speakers, motors and many other applications. The RXE series range in hold currents from .05 to 3.75 amps and complement the RUE devices by providing a higher voltage rating.

Fig. 3 — RUE Series



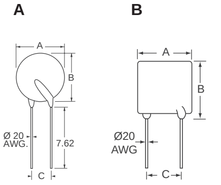
These devices are also designed to be used in a wide variety of general electronics applications. They complement the RXE series by providing a smaller form factor with lower resistance and higher hold current capability (up to 9 amps).

Fig. 4 — RTE Series



RTE series polyswitches are specifically designed for IEEE-1394 applications.

Fig. 5 — LVR Series *NEW!*



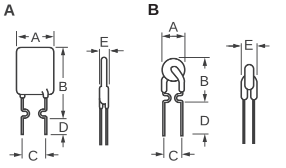
This product extends the proven PolySwitch technology of resettable overcurrent protection into higher voltage applications.

Fig.	Max Volt.	Rated Current (20°C) (amps) Hold	Trip	Max Current (Amp)	Initial Resistance RMin. (Ω)	RMax. (Ω)	Recognized By	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
									RGE Series						
1A	16	3.00	5.10	100	0.038	0.0653	UL, TUV, CSA	0.28 (7.1)	0.43 (11.0)	0.23 (5.8)	RGE300-ND	.61	.56	.51	RGE300
1A	16	4.00	6.80	100	0.021	0.0393	UL, TUV, CSA	0.35 (8.9)	0.50 (12.8)	0.23 (5.8)	RGE400-ND	.62	.58	.52	RGE400
1A	16	5.00	8.50	100	0.015	0.0236	UL, TUV, CSA	0.41 (10.4)	0.56 (14.3)	0.23 (5.8)	RGE500-ND	.64	.59	.54	RGE500
1A	16	6.00	10.20	100	0.010	0.0191	UL, TUV, CSA	0.42 (10.7)	0.67 (17.1)	0.23 (5.8)	RGE600-ND	.68	.63	.57	RGE600
1A	16	7.00	11.90	100	0.0077	0.0134	UL, TUV, CSA	0.44 (11.2)	0.78 (19.7)	0.23 (5.8)	RGE700-ND	.72	.66	.60	RGE700
1A	16	8.00	13.60	100	0.0056	0.0116	UL, TUV, CSA	0.50 (12.7)	0.82 (20.9)	0.23 (5.8)	RGE800-ND	.77	.71	.65	RGE800
1A	16	9.00	15.30	100	0.0047	0.0093	UL, TUV, CSA	0.55 (14.0)	0.85 (21.7)	0.23 (5.8)	RGE900-ND	.85	.78	.71	RGE900
1A	16	10.00	17.00	100	0.0040	0.0072	UL, TUV, CSA	0.65 (16.5)	0.99 (25.2)	0.23 (5.8)	RGE1000-ND	.95	.88	.80	RGE1000
1A	16	11.00	18.70	100	0.0037	0.0063	UL, TUV, CSA	0.69 (17.5)	1.02 (26.0)	0.23 (5.8)	RGE1100-ND	1.04	.96	.87	RGE1100
1A	16	12.00	20.40	100	0.0033	0.0060	UL, TUV, CSA	0.69 (17.5)	1.10 (27.94)	0.43 (10.9)	RGE1200-ND	1.12	1.03	.94	RGE1200
1A	16	14.00	23.80	100	0.0026	0.0045	UL, TUV, CSA	0.925 (23.5)	1.10 (27.94)	0.43 (10.9)	RGE1400-ND	1.21	1.11	1.01	RGE1400
									RHE Series						
1C	16	0.7	1.4	40	0.300	0.546	UL, TUV, CSA	0.27 (6.86)	0.425 (10.8)	0.23 (5.8)	RHE070-ND	.55	.51	.46	RHE070
1B	16	4.0	7.0	100	0.018	0.029	UL, TUV, CSA	0.45 (11.4)	0.71 (18.0)	0.23 (5.8)	RHE400-ND	.68	.63	.57	RHE400
1B	16	4.5	7.8	100	0.022	0.036	UL, TUV, CSA	0.41 (10.4)	0.61 (15.6)	0.23 (5.8)	RHE450-ND	.70	.65	.59	RHE450
1B	16	6.0	10.8	100	0.013	0.022	UL, TUV, CSA	0.44 (11.2)	0.83 (21.0)	0.23 (5.8)	RHE600-ND	.76	.70	.64	RHE600
1B	16	6.5	12.0	100	0.011	0.018	UL, TUV, CSA	0.50 (12.7)	0.88 (22.2)	0.23 (5.8)	RHE650-ND	.80	.74	.67	RHE650
1B	16	7.5	13.1	100	0.0094	0.0153	UL, TUV, CSA	0.55 (14.0)	0.93 (23.5)	0.23 (5.8)	RHE750-ND	.88	.81	.74	RHE750
1B	16	10.0	18.5	100	0.0062	0.0105	UL, TUV, CSA	0.69 (17.5)	1.04 (26.5)	0.43 (10.9)	RHE1000-ND	1.10	1.01	.92	RHE1000
1B	16	13.0	24.0	100	0.0041	0.0069	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHE1300-ND	1.30	1.20	1.09	RHE1300
1B	16	15.0	28.0	100	0.0032	0.0061	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHE1500-ND	1.39	1.28	1.16	RHE1500
									RXE Series						
2A	60	0.05	0.10	40	7.3	11.1	UL, TUV, CSA	0.32 (8.0)	0.33 (8.3)	0.23 (5.8)	RXE005-ND	.44	.41	.37	RXE005
2A	60	0.10	0.20	40	2.5	4.50	UL, TUV, CSA	0.29 (7.4)	0.46 (11.6)	0.23 (5.8)	RXE010-ND	.45	.41	.38	RXE010
2A	60	0.17	0.34	40	3.3	5.21	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE017-ND	.45	.42	.38	RXE017
2A	72	0.20	0.40	40	1.83	2.75	UL, TUV, CSA	0.29 (7.4)	0.46 (11.7)	0.23 (5.8)	RXE020-ND	.46	.43	.39	RXE020
2A	72	0.25	0.50	40	1.25	1.95	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE025-ND	.47	.43	.39	RXE025
2A	72	0.30	0.60	40	0.88	1.33	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE030-ND	.47	.44	.40	RXE030
2A	72	0.40	0.80	40	0.55	0.86	UL, TUV, CSA	0.30 (7.6)	0.53 (13.5)	0.23 (5.8)	RXE040-ND	.48	.44	.40	RXE040
2A	72	0.50	1.00	40	0.50	0.77	UL, TUV, CSA	0.31 (7.9)	0.54 (13.7)	0.23 (5.8)	RXE050-ND	.48	.45	.41	RXE050
2A	72	0.65	1.30	40	0.31	0.48	UL, TUV, CSA	0.37 (9.40)	0.57 (14.5)	0.23 (5.8)	RXE065-ND	.49	.46	.41	RXE065
2A	72	0.75	1.50	40	0.25	0.40	UL, TUV, CSA	0.40 (10.2)	0.60 (15.2)	0.23 (5.8)	RXE075-ND	.50	.47	.42	RXE075
2A	72	0.90	1.80	40	0.20	0.31	UL, TUV, CSA	0.44 (11.2)	0.62 (15.8)	0.23 (5.8)	RXE090-ND	.53	.49	.44	RXE090
2B	72	1.10	2.20	40	0.15	0.25	UL, TUV, CSA	0.50 (12.8)	0.69 (17.5)	0.23 (5.8)	RXE110-ND	.55	.51	.46	RXE110
2B	72	1.35	2.70	40	0.12	0.19	UL, TUV, CSA	0.57 (14.5)	0.75 (19.1)	0.23 (5.8)	RXE135-ND	.58	.54	.49	RXE135
2B	72	1.60	3.20	40	0.09	0.14	UL, TUV, CSA	0.64 (16.3)	0.82 (20.8)	0.23 (5.8)	RXE160-ND	.61	.57	.51	RXE160
2B	72	1.85	3.70	40	0.08	0.12	UL, TUV, CSA	0.69 (17.5)	0.88 (22.4)	0.23 (5.8)	RXE185-ND	.69	.64	.58	RXE185
2B	72	2.50	5.00	40	0.05	0.08	UL, TUV, CSA	0.82 (20.8)	1.00 (25.4)	0.43 (10.9)	RXE250-ND	.68	.63	.57	RXE250
2B	72	3.00	6.00	40	0.04	0.06	UL, TUV, CSA	0.94 (23.9)	1.13 (28.6)	0.43 (10.9)	RXE300-ND	.72	.67	.61	RXE300
2B	72	3.75	7.50	40	0.03	0.05	UL, TUV, CSA	1.07 (27.2)	1.25 (31.8)	0.43 (10.9)	RXE375-ND	.75	.69	.63	RXE375
									RUE Series						
3A	30	0.90	1.80	40	0.070	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.20 (5.1)	RUE090-ND	.48	.45	.41	RUE090
3A	30	1.10	2.20	40	0.050	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.20 (5.1)	RUE110-ND	.49	.46	.41	RUE110
3A	30	1.35	2.70	40	0.040	0.08	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.20 (5.1)	RUE135-ND	.50	.47	.42	RUE135
3A	30	1.60	3.20	40	0.030	0.07	UL, TUV, CSA	0.35 (8.9)	0.60 (15.2)	0.20 (5.1)	RUE160-ND	.53	.49	.44	RUE160
3A	30	1.85	3.70	40	0.030	0.06	UL, TUV, CSA	0.40 (10.2)	0.62 (15.7)	0.20 (5.1)	RUE185-ND	.56	.52	.47	RUE185
3A	30	2.50	5.00	40	0.020	0.04	UL, TUV, CSA	0.45 (11.4)	0.72 (18.3)	0.20 (5.1)	RUE250-ND	.61	.57	.51	RUE250
3B	30	3.00	6.00	40	0.020	0.05	UL, TUV, CSA	0.45 (11.4)	0.65 (16.5)	0.20 (5.1)	RUE300-ND	.67	.62	.56	RUE300
3B	30	4.00	8.00	40	0.010	0.03	UL, TUV, CSA	0.55 (14.0)	0.76 (19.3)	0.20 (5.1)	RUE400-ND	.73	.67	.61	RUE400
3B	30	5.00	10.00	40	0.010	0.03	UL, TUV, CSA	0.55 (14.0)	0.95 (24.1)	0.40 (10.2)	RUE500-ND	.79	.73	.66	RUE500
3B	30	6.00	12.00	40	0.005	0.02	UL, TUV, CSA	0.65 (16.5)	0.95 (24.1)	0.40 (10.2)	RUE600-ND	.82	.75	.68	RUE600
3B	30	7.00	14.00	40	0.005	0.02	UL, TUV, CSA	0.75 (19.1)	1.02 (25.9)	0.40 (10.2)	RUE700-ND	.86	.79	.72	RUE700
3B	30	8.00	16.00	40	0.005	0.013	UL, TUV, CSA	0.85 (21.6)	1.12 (28.4)	0.40 (10.2)	RUE800-ND	.89	.82	.75	RUE800
3B	30	9.00	18.00	40	0.005	0.01	UL, TUV, CSA	0.95 (24.1)	1.14 (29.0)	0.40 (10.2)	RUE900-ND	.95	.88	.80	RUE900
									RTE Series						
4	33	1.20	2.30	40	0.074	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RTE120-ND	.51	.47	.43	RTE120
4	33	1.20	2.30	40	0.074	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RTE120TR-ND		915.00/3,000		RTE120-2
4	33	1.35	2.50	40	0.059	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RTE135-ND	.52	.48	.44	RTE135
4	33	1.35	2.50	40	0.059	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RTE135TR-ND		930.00/3,000		RTE135-2
4	33	1.90	3.00	40	0.045	0.063	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RTE190-ND	.60	.55	.50	RTE190
4	33	1.90	3.00	40	0.045	0.063	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RTE190TR-ND		1053.00/3,000		RTE190-2

Fig.	Operating Volt.	Rated Current (20°C) (amps) Hold	Trip	Max. Interrupt Volt.	Max. Interrupt Current	Initial Resistance Rmin (Ω)	Rmax (Ω)	Recognized By	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
									NEW! LVR Line Voltage Series NEW!							
5A	240VAC	.12	.27	265VAC	1.2ARMS	4.0	6.5	UL, TUV, CSA	.33 (8.3)	.43 (10.7)	.23 (5.8)	LVR012S-ND	.63	.58	.53	LVR012S
5B	240VAC	.25	.56	265VAC	3.5ARMS	1.3	2.1	UL, TUV, CSA	.38 (9.6)	.69 (17.4)	.23 (5.8)	LVR025S-ND	.72	.66	.60	LVR025S
5B	240VAC	.40	.90	265VAC	5.5ARMS	0.6	.97	UL, TUV, CSA	.46 (11.5)	.77 (19.5)	.23 (5.8)	LVR040S-ND	.81	.75	.68	LVR040S

(Continued)

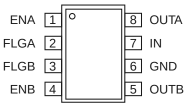
Fig. 6 — RUSB Series



New PolySwitch RUSB devices are designed to meet USB and safety agency requirements. The RUSB family of leaded resettable devices offers overcurrent protection for USB applications.

Fig. 7 — RYC Series Power Distribution Switches

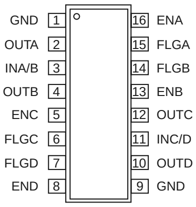
A — SO-8



This series is designed for USB self-powered hub applications such as notebook PCs, self/bus-powered stand-alone USB hubs, USB bus-powered hubs in keyboards and USB peripherals such as CCD cameras. They help provide efficient and reliable power switching and in-rush current limiting capabilities.

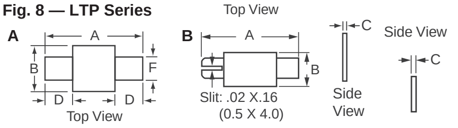
These USB power distribution switches enable power to USB ports upon USB controller commands. The switches signal the controller when faults such as overcurrent, over-temperature, under-voltage lock-out (UVLO) or over-voltage lock-out (OVLO) are detected.

B — SO-16



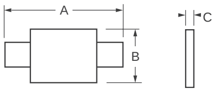
SO-8 Pin No.	SO-16 Pin No.	Pin Function
1 and 4	5, 8, 13, 16	Enable (Input): Logic-compatible enable input. High input > 2.1V typical. Low input <1.9V typical
2 and 3	6, 7, 14, 15	Fault Flag (Output): Active-low open-drain output. Indicates overcurrent, UVLO, OVLO and thermal shutdown
6	1, 9	Ground: Supply return
7	3, 11	Supply Input: Output MOSFET drain. Also supplies ICs internal circuitry. Connect to positive supply
5 and 8	2, 4, 10, 12	Switch Output: Output MOSFET source. Typically connect to switched side of load

Fig. 8 — LTP Series



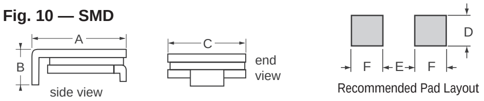
Similar to the SRP family of PolySwitch strap products, LTP devices help provide reliable, noncycling protection for rechargeable batteries and have a slim, low-profile design that makes them easy to install. LTP devices also offer additional protection at elevated temperatures.

Fig. 9 — SRP Series



These products help provide reliable, non-cycling protection for rechargeable batteries. Weldable nickel leads and a narrow, low-profile design make these devices extremely easy to install on the edges of battery packs.

Fig. 10 — SMD



This product series is specifically designed for surface mount applications. The products range in hold currents from 0.3 amps to 3.0 amps and voltages from 6 volts to 60 volts. These devices are ideally suited for high density board applications in computer and computer peripheral products, telecommunications and general electronics applications. They are designed to be reflowed onto a PCB using standard surface mount processes. Packaged per EIA-481 standard.

Fig.	Max Volt.	Rated Current (20°C) (amps) Hold	Trip	Initial Resistance Rmin. (Ω)	Rmax. (Ω)	Dimensions Inches (mm) A max.	B max.	C max.	D min.	E max.	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
RUSB															
6B	6	0.75	1.3	0.110	0.177	.27 (6.9)	.45 (11.4)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB075-ND	.47	.43	.39	RUSB075
6A	16	0.90	1.8	0.070	0.121	.29 (7.4)	.48 (12.2)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB090-ND	.47	.44	.40	RUSB090
6A	16	1.10	2.2	0.050	0.096	.29 (7.4)	.56 (14.2)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB110-ND	.48	.45	.41	RUSB110
6B	6	1.20	2.0	0.650	0.098	.27 (6.9)	.46 (11.7)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB120-ND	.49	.45	.41	RUSB120
6A	16	1.35	2.7	0.040	0.075	.35 (8.9)	.53 (13.5)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB135-ND	.50	.46	.42	RUSB135
6B	6	1.55	2.65	0.043	0.071	.27 (6.9)	.46 (11.7)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB155-ND	.50	.47	.42	RUSB155
6A	16	1.60	3.2	0.030	0.062	.35 (8.9)	.60 (15.2)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB160-ND	.52	.48	.44	RUSB160
6A	16	1.85	3.7	0.030	0.055	.40 (10.2)	.62 (15.7)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB185-ND	.56	.51	.47	RUSB185
6A	16	2.50	5.0	0.020	0.036	.45 (11.4)	.72 (18.3)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB250-ND	.60	.55	.50	RUSB250

Fig.	Max. Supply Voltage	Fault Flag Voltage	Fault Flag Current	Output Voltage	Output Current	Control Input	Storage Temp.	Max. Lead Temp. during Soldering (5 sec.)	Supply Voltage	Ambient Operating Temp.	Pkg.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing† 2,500	Raychem Part No.
RYC Series																	
7A	+8 V	+8 V	50mA	+8 V	Internally Limited	-0.3 to +12.0V	-65°C to +150°C	260°C	+3 to +5.5 V	-40°C to +85°C	SOIC-8	RYC8220-2MCT-ND	1.94	1.67	1.53	932.00/M	RYC8220-2M
7A	+8 V	+8 V	50mA	+8 V				260°C			SOIC-8	RYC8220-4MCT-ND	1.94	1.67	1.53	932.00/M	RYC8220-4M
7B	+8 V	+8 V	50mA	+8 V				260°C			SOIC-16	RYC8240-2WMCT-ND	3.47	2.97	2.73	2350.00/M	RYC8240-2WM
7B	+8 V	+8 V	50mA	+8 V				260°C			SOIC-16	RYC8240-4WMCT-ND	3.47	2.97	2.73	2350.00/M	RYC8240-4WM

† For Tape & Reel Part No., change CT-ND to TR-ND

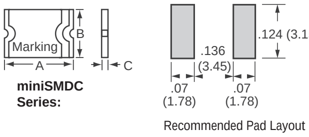
Fig.	Max Volt.	Rated Current (20°C) (amps) Hold	Trip	Max Current (Amp)	RMax Initial (Ohms)	Recognized By	Dimensions Inches (mm) A	B	C	D	F	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
LTP Series																
8A	15	.70	1.45	100	0.200	UL, TUV, CSA	0.87 (22.1)	0.20 (5.2)	0.05 (1.2)	0.30 (7.5)	0.16 (4.1)	LTP070-ND	.70	.65	.59	LTP070
8B	15	.70	1.45	100	0.200	UL, TUV, CSA	0.87 (22.1)	0.20 (5.2)	0.05 (1.2)	0.30 (7.5)	0.16 (4.1)	LTP070S-ND	.70	.65	.59	LTP070S
8A	24	1.00	2.5	100	0.130	UL, TUV, CSA	0.91 (23.1)	0.20 (5.2)	0.04 (1.0)	0.22 (5.5)	0.16 (4.1)	LTP100-ND	.70	.65	.59	LTP100
8B	24	1.00	2.5	100	0.130	UL, TUV, CSA	0.91 (23.1)	0.20 (5.2)	0.04 (1.0)	0.22 (5.5)	0.16 (4.1)	LTP100S-ND	.70	.65	.59	LTP100S
8A	24	1.80	3.8	100	0.068	UL, TUV, CSA	1.02 (26.0)	0.20 (5.2)	0.04 (1.0)	0.22 (5.5)	0.16 (4.1)	LTP180-ND	.70	.65	.59	LTP180
8B	24	1.8	3.8	100	0.068	UL, TUV, CSA	1.02 (26.0)	0.20 (5.2)	0.04 (1.0)	0.22 (5.5)	0.16 (4.1)	LTP180S-ND	.70	.65	.59	LTP180S
8A	24	1.90	4.2	100	0.057	UL, TUV, CSA	0.92 (23.4)	0.43 (11.0)	0.04 (1.1)	0.30 (7.6)	0.21 (5.4)	LTP190-ND	.68	.62	.57	LTP190
8A	24	2.60	5.2	100	0.042	UL, TUV, CSA	1.02 (26.0)	0.47 (11.9)	0.04 (1.0)	0.28 (7.0)	0.24 (6.1)	LTP260-ND	.89	.82	.74	LTP260
8A	24	3.0	6.3	100	0.031	UL, TUV, CSA	1.25 (31.8)	0.53 (13.5)	0.043 (1.1)	0.35 (8.9)	0.26 (6.6)	LTP300-ND	.89	.82	.74	LTP300
8A	24	3.1	6.0	100	0.030	UL, TUV, CSA	1.02 (26.0)	0.62 (15.9)	0.04 (1.0)	0.28 (7.0)	0.24 (6.1)	LTP310-ND	.93	.86	.78	LTP310
8A	24	3.4	6.8	100	0.027	UL, TUV, CSA	1.02 (26.0)	0.62 (15.9)	0.04 (1.0)	0.20 (5.0)	0.24 (6.1)	LTP340-ND	.93	.86	.78	LTP340

Fig.	Max Volt.	Rated Current (20°C) (amps) Hold	Trip	Max Current (Amp)	RMax Initial (Ohms)	Recognized By	Dimensions Inches (mm) A	B	C	D	F	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
SRP																
9	15	1.20	2.70	100	0.16	UL, TUV, CSA	0.87 (22.1)	0.20 (5.2)	0.04 (1.0)	—	—	SRP120-ND	.62	.57	.52	SRP120
9	15	1.75	3.80	100	0.09	UL, TUV, CSA	0.91 (23.1)	0.20 (5.2)	0.04 (1.0)	—	—	SRP175-ND	.62	.57	.52	SRP175
9	30	2.00	4.40	100	0.06	UL, TUV, CSA	0.92 (23.4)	0.43 (11.0)	0.04 (1.1)	—	—	SRP200-ND	.62	.57	.52	SRP200
9	30	3.50	6.30	100	0.03	UL, TUV, CSA	1.25 (31.8)	0.53 (13.5)	0.04 (1.1)	—	—	SRP350-ND	.66	.61	.55	SRP350
9	30	4.20	7.60	100	0.024	UL, TUV, CSA	1.28 (32.4)	0.54 (13.6)	0.04 (1.1)	—	—	SRP420-ND	.66	.61	.55	SRP420

Fig.	Max Volt.	Rated Current (20°C) (amps) Hold	Trip	Max Current (Amp)	R_1Max Initial (Ohms)	Recognized By	Dimensions Inches (mm) A (max.)	B (max.)	C (max.)	D	E	F	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Size	Pricing	Raychem Part No.
SMD																			
10	60	0.30	0.60	10	4.8	UL, TUV, CSA	.314 (7.98)	.125 (3.18)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD030CT-ND	.86	.74	.68	2,000	412.00/M	SMD030-2
10	60	0.50	1.00	10	1.4	UL, TUV, CSA	.314 (7.98)	.125 (3.18)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD050CT-ND	.86	.74	.68	2,000	412.00/M	SMD050-2
10	30	0.75	1.50	40	1.0	UL, TUV, CSA	.314 (7.98)	.125 (3.18)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD075CT-ND	.86	.74	.68	2,000	412.00/M	SMD075-2
10	30	1.10	2.20	40	.48	UL, TUV, CSA	.314 (7.98)	.118 (3.00)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD100CT-ND	.82	.70	.65	2,000	391.00/M	SMD100-2
10	15	1.25	2.50	40	.25	UL, TUV, CSA	.314 (7.98)	.118 (3.00)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD125CT-ND	.82	.70	.65	2,000	391.00/M	SMD125-2
10	15	1.50	3.00	40	.25	UL, TUV, CSA	.370 (9.40)	.118 (3.00)	.264 (6.71)	.18 (4.6)	.240 (6.1)	.09 (2.3)	SMD150CT-ND	.86	.74	.68	1,500	412.00/M	SMD150-2
10	15	2.00	4.00	40	0.125	UL, TUV, CSA	.370 (9.40)	.118 (3.00)	.264 (6.71)	.18 (4.6)	.240 (6.1)	.09 (2.3)	SMD200CT-ND	.86	.74	.68	1,500	412.00/M	SMD200-2
10	15	2.50	5.00	40	.085	UL, TUV, CSA	.370 (9.40)	.118 (3.00)	.264 (6.71)	.18 (4.6)	.240 (6.1)	.09 (2.3)	SMD250CT-ND	.86	.74	.68	1,500	412.00/M	SMD250-2
10	6	2.60	5.20	40	.075	UL, TUV, CSA	.314 (7.98)	.118 (3.00)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD260CT-ND	.86	.74	.68	2,000	391.00/M	SMD260-2
10	6	3.00	6.00	40	.048	UL, TUV, CSA	.314 (7.98)	.118 (3.00)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD300CT-ND	.82	.70	.65	2,000	391.00/M	SMD300-2

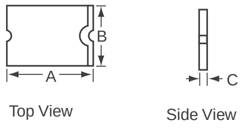
(Continued)

Fig. 11 — miniSMD



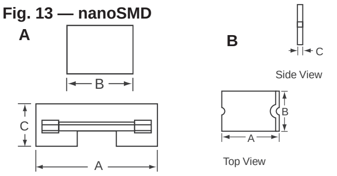
The miniSMD resettable devices extremely small size makes them excellent choices for keyboard and mouse ports, SCSI devices, battery packs, PC cards and sockets, cellular modems and phones, and portable electronic equipment. SMT packaging for automated assembly compared to SMD the miniSMD offers: 40% reduction in size, 300% faster time to trip, 50% reduction in DC resistance, 66% reduction in profile, 80% reduction in mass and drop in replacement for the NANO 2 device in many applications.

Fig. 12— microSMD



This product series is designed for surface-mount applications. Its smaller component size enables installation on crowded printed circuit boards and in small enclosures such as digital cameras, personal digital assistants (PDAs) and palm-top computers. The new low hold current devices are ideal for protecting industrial sensors and data acquisition systems.

Fig. 13 — nanoSMD



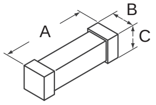
The nanoSMD series reduces the component size to a 1206 footprint, nearly half the size of the microSMD series and one-quarter the size of the popular miniSMD series. The industries fastest time to trip. Smaller size saves board space and cost. Compatible with high volume electronics assembly.

Fig.	Max Volt.	Rated Current (20°C) (amps) Hold	Trip	Max Current (Amp)	R_1Max Initial (Ohms)	Recognized By	Dimensions – Inches (mm) A (max.)	B (max.)	C (max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Size	Pricing	Raychem Part No.
							miniSMD									
11	60	0.14	0.34	10	6.0	UL, TUV, CSA	.186 (4.73)	.134 (3.41)	.035 (.89)	MINISMDC014CT-ND	.63	.55	.50	2,000	304.00/M	MINISMDC014-2
11	24	0.50	1.00	40	1.0	UL, TUV, CSA	.186 (4.73)	.134 (3.41)	.025 (.62)	MINISMDC050CT-ND	.63	.55	.50	2,000	304.00/M	MINISMDC050-2
11	13.2	0.75	1.50	40	.45	UL, TUV, CSA	.186 (4.73)	.134 (3.41)	.025 (.62)	MINISMDC075CT-ND	.63	.55	.50	2,000	304.00/M	MINISMDC075-2
11	6	1.1	2.2	40	.21	UL, TUV, CSA	.186 (4.73)	.134 (3.41)	.025 (.62)	MINISMDC110CT-ND	.63	.55	.50	2,000	304.00/M	MINISMDC110-2
11	6	1.5	3.0	40	.11	UL, TUV, CSA	.186 (4.73)	.134 (3.41)	.019 (.48)	MINISMDC150CT-ND	.63	.55	.50	2,000	304.00/M	MINISMDC150-2
11	6	2.0	4.0	40	.07	UL, TUV, CSA	.186 (4.73)	.134 (3.41)	.048 (1.22)	MINISMDC200CT-ND	.79	.68	.63	2,000	380.00/M	MINISMDC200-2
							microSMD									
12	30	0.05	0.15	10	50	UL, TUV, CSA	.135 (3.43)	.110 (2.80)	.034 (.85)	MICROSMD005CT-ND	.63	.55	.50	4,000	350.45/M	MICROSMD005-2
12	30	0.10	0.25	10	15	UL, TUV, CSA	.135 (3.43)	.110 (2.80)	.034 (.85)	MICROSMD010CT-ND	.72	.64	.55	4,000	441.00/M	MICROSMD010-2
12	6	0.35	0.75	40	1.3	UL, TUV, CSA	.135 (3.43)	.110 (2.80)	.025 (.62)	MICROSMD035CT-ND	.72	.64	.55	4,000	441.00/M	MICROSMD035-2
12	13.2	0.50	1.0	40	.90	UL, TUV, CSA	.135 (3.43)	.110 (2.80)	.025 (.62)	MICROSMD050CT-ND	.63	.55	.50	4,000	305.00/M	MICROSMD050-2
12	6	0.75	1.5	40	.40	UL, TUV, CSA	.135 (3.43)	.110 (2.80)	.025 (.62)	MICROSMD075CT-ND	.63	.55	.50	4,000	305.00/M	MICROSMD075-2
12	6	1.10	2.2	40	.21	UL, TUV, CSA	.135 (3.43)	.110 (2.80)	.019 (.48)	MICROSMD110CT-ND	.63	.55	.50	4,000	305.00/M	MICROSMD110-2
12	6	1.50	3.0	40	.11	UL, TUV, CSA	.135 (3.43)	.110 (2.80)	.048 (1.22)	MICROSMD150CT-ND	.70	.60	.55	4,000	335.00/M	MICROSMD150-2
							nanoSMD									
13A	6	0.50	1.00	40	0.7	UL, TUV, CSA	.134 (3.40)	.071 (1.80)	.047 (1.20)	NANOSMDM050CT-ND	.66	.57	.52	3,000	318.00/M	NANOSMDM050-2
13A	6	.75	1.50	40	0.29	UL, TUV, CSA	.134 (3.40)	.071 (1.80)	.047 (1.20)	NANOSMDM075CT-ND	.66	.57	.52	3,000	318.00/M	NANOSMDM075-2
13A	6	1.00	1.80	40	0.21	UL, TUV, CSA	.134 (3.40)	.071 (1.80)	.047 (1.20)	NANOSMDM100CT-ND	.66	.57	.52	3,000	318.00/M	NANOSMDM100-2
13B	6	1.50	3.00	40	0.11	UL, TUV, CSA	.134 (3.40)	.075 (1.90)	.055 (1.40)	NANOSMDC150CT-ND	.66	.57	.52	3,000	318.00/M	NANOSMDC150-2

† For Tape and Reel Part Number change CT-ND to TR-ND.

tyco Electronics Raychem CIRCUIT PROTECTION

NEW! Overcurrent Fuses — FT600 Series



Benefits: • When combined with a SiBar™ overvoltage protection device, assists equipment in meeting regulatory standards with no additional series components • Improved temperature rise performance over other similar SMT fuse devices under sneak current testing • High density placement in multi-port system designs
Target Applications: • xDSL and ADSL linecards and modems • T1/E1 systems • Twisted pair telecom ports requiring Telcordia GR-1089, UL60950 and FCC Part 68 compliance
Features: • The lightning robust surface-mount fuse offers overcurrent protection from power faults • Designed to assist equipment in complying with telecom specifications including UL60950, FCC Part 68, and Telcordia GR-1089
Specifications: • **Termination Material:** Silver-plated brass • **Body Material:** Ceramic

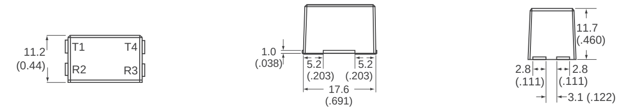
Ampere Rating (A)	Voltage Rating (V)	Typical Resistance Ω	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Size	Pricing	Raychem Part No.
1.25	250	0.1	0.413 (10.5)	0.133 (3.4)	0.133 (3.4)	FT600-1250CT-ND	1.47	1.26	1.16	2,500	705.00/M	FT600-1250-2
2.00	250	0.05	0.413 (10.5)	0.133 (3.4)	0.133 (3.4)	FT600-2000CT-ND	1.54	1.32	1.21	2,500	738.00/M	FT600-2000-2

† For Tape and Reel Part Number change CT-ND to TR-ND.

PolySwitch® TSM600-250

The TSM600-250 is an overcurrent protection device designed for DSL and other telecommunications network equipment applications.

The TSM600-250 incorporates two matched, low-resistance PPTC components into a single device yielding balanced protection on tip-and-ring lines with minimal attenuation of data transmission.



Operating Voltage (Vdc)	IHOLD (mA) @20°C	@60°C	Resistance (Ohm)** Rmin	Rtyp	R1max*	Time to Trip @3A (Seconds) Typ.	Max.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 200	Raychem Part No.
250	250	140	1.0	3.5	7.0	0.8	6	TSM600-250-2CT-ND	2.52	2.31	2.10	TSM600-250-2TR-ND	378.00	TSM600-250-2
250	250	140	1.0	3.0	5.0	1.0	6	TSM600-250-RA-2CT-ND	2.66	2.44	2.22	TSM600-250-RA-2TR-ND	398.70	TSM600-250-RA-2

*Maximum device resistance, measured 1-hour post reflow or post trip **Resistance per PPTC device

PolySwitch® Resettable Devices — TR Series

These product families help provide protection against power cross and power induction surge as defined in ITU, Telcordia, and UL.

Fig. 1 — TR Series

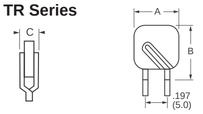


Fig. 2 — Encapsulated TR Series

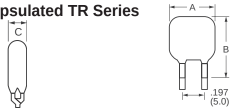


Fig.	Max Volt.	Oper. Vdc	Rated Current (20°C) (amps) Hold	Trip	Max Current (Amp)	RMax Initial (Ohms)	Recognized By	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
1	250	60	0.080	0.16	3	20.0	UL, TUV, CSA	0.189 (4.80)	0.366 (9.30)	0.150 (3.80)	TR080U-ND*	.66	.61	.55	TR250-080U
1	250	60	0.120	0.24	3	10.0	UL, TUV, CSA	0.236 (6.00)	0.394 (10.00)	0.150 (3.80)	TR120U-ND*	.66	.61	.55	TR250-120U
1	250	60	0.145	0.29	3	6.5	UL, TUV, CSA	0.236 (6.00)	0.394 (10.00)	0.150 (3.80)	TR145U-ND*	.66	.61	.55	TR250-145U
1	250	60	0.180	0.50	10	2.0	UL, TUV, CSA	0.410 (10.40)	0.496 (12.60)	0.150 (3.80)	TR180U-ND*	.83	.76	.69	TR250-180U
2	250	60	0.120	0.24	3	8.0	UL, TUV, CSA	0.256 (6.50)	0.433 (11.00)	0.180 (4.60)	TR120-ND*	.73	.68	.61	TR250-120
2	250	60	0.145	0.29	3	6.0	UL, TUV, CSA	0.256 (6.50)	0.433 (11.00)	0.180 (4.60)	TR145-ND*	.73	.68	.61	TR250-145
2	600	60	0.150	0.30	3	12.0	UL, CSA	0.531 (13.50)	0.496 (12.60)	0.236 (6.00)	TR150-ND*	1.15	1.06	.96	TR600-150
2	600	60	0.150	0.30	3	10.0	UL, CSA	0.531 (13.50)	0.496 (12.60)	0.236 (6.00)	TR150RA-ND*	1.24	1.14	1.04	TR600-150-RA-B-0.5

* Warning: TR devices are not intended for continuous utility line voltage such as 120/220V or 240Vdc. Operating Voltage: 60Vdc

tyco | Electronics **Raychem** CIRCUIT PROTECTION

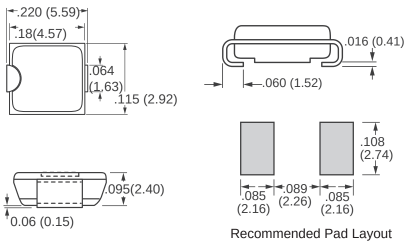
SiBar Thyristor Surge Protectors

SiBar thyristor surge protectors are designed specifically for telecommunications and computer telephony applications, including: • Modems • Fax machines • PBX Systems • Phones • POS Systems • Analog and digital linecards • Other customer premise and network equipment requiring protection.

Features: • Bidirectional transient voltage protection • High off-state impedance • Low on-state voltage • High surge capability • Short-circuit failure mode • Surface-mount technology • UL 497B recognized, file #E179610

SiBar thyristor surge protectors are bidirectional silicon devices that foldback in the presence of transient overvoltage faults. When the breakover voltage of a SiBar device is exceeded, the device switches from high to low impedance to protect sensitive downstream equipment from harmful voltage surges. The device remains latched in a low-impedance state until the current decreases below the hold current, at which point the device returns to its high-impedance state.

SiBar devices may be used in conjunction with PolySwitch resettable devices in telecommunications applications, including network equipment and customer premise equipment. Proper selection of both devices can provide reliable, self-resetting overvoltage and overcurrent protection, allowing designers to meet worldwide telecommunications standards and to lower equipment-service and warranty cost.



V_{DM} max. (V)	V_{BO} max. (V)	I_H min. (mA)	V_T max. (V)	C_1 typ. (pF)	I_{TSM} min. (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Raychem Part No.
215	325	200	5.0	20	22	TVB280CT-ND	1.07	.92	.85	—	—	—	TVB280-050
165	265	200	5.0	20	22	TVB330CT-ND	1.07	.92	.85	—	—	—	TVB330-050
270	370	175	5.0	50	60	TVB270SCCT-ND	1.50	1.29	1.18	TVB270SCTR-ND	2,500	719.00/M	TVB270SC
200	320	175	5.0	50	60	TVB200SCCT-ND	1.50	1.29	1.18	TVB200SCTR-ND	2,500	719.00/M	TVB200SC
170	265	175	5.0	50	60	TVB170SCCT-ND	1.50	1.29	1.18	TVB170SCTR-ND	2,500	719.00/M	TVB170SC
270	370	175	5.0	20	22	TVB270SACT-ND	.74	.63	.58	TVB270SATR-ND	2,500	353.00/M	TVB270SA
200	320	175	5.0	20	22	TVB200SACT-ND	.99	.85	.78	TVB200SATR-ND	2,500	473.00/M	TVB200SA
170	265	175	5.0	20	22	TVB170SACT-ND	.99	.85	.78	TVB170SATR-ND	2,500	473.00/M	TVB170SA
270	365	175	3.0	22	22	TVA270SACT-ND	.69	.64	.58	TVA270SATR-ND	5,000	360.00/M	TVA270SA

Panasonic Circuit Protect Element Series Surface Mount Package

Shuts off the circuit current in a quick and stable manner. Our Circuit protector element series protect semiconductors and their circuits with excellent shut-off characteristics. Suitable for protection of interface circuit in PC and OA equipment.

Features: • Shut-off characteristics are extremely stable • Low internal resistance and voltage drop • Molded in flame retardant package • The package is molded with a high dimensional accuracy • Small sized surface-mount type package, enabling high-density mounting • UL Certified • Operating ambient and storage temperature: -55°C to +125°C.

Precautions in use: Applying continuously a current exceeding the rated current causes heating of the package and can be dangerous. Please use these elements to circuits in the secondary side only. Applying excessive power causes bursting of the package and can be dangerous. Since these elements do not correspond to current fuses, etc., according to legal regulations, avoid using symbols for these elements in circuit diagrams that may cause confusion with tubular fuses.

Fig. 1 — Small New Mini-Power Package (2-pin)

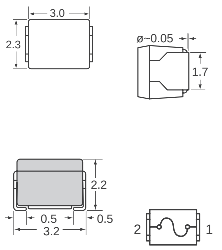


Fig. 2 — S-Mini Type Package (2-pin)

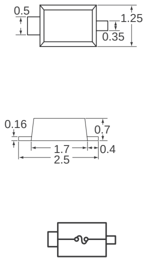
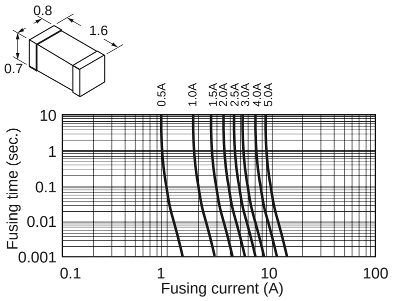


Fig.	Rated Current (A)	Break-down Current (A) +20%	Internal Resistance (mΩ)	Rated Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
Small New Mini-Power Package (2-Pin) UNHS200 Series											
1	0.5	1.0	130	50	UNHS20000LCT-ND	.57	.46	.35	UNHS20000LTR-ND	1,500	160.00/M
	0.7	1.4	95	50	UNHS20100LCT-ND	.57	.46	.35	UNHS20100LTR-ND	1,500	160.00/M
	1.0	2.0	58	50	UNHS20200LCT-ND	.57	.46	.35	UNHS20200LTR-ND	1,500	160.00/M
	1.2	2.4	45	50	UNHS20300LCT-ND	.57	.46	.35	UNHS20300LTR-ND	1,500	160.00/M
	1.5	3.0	38	50	UNHS20400LCT-ND	.57	.46	.35	UNHS20400LTR-ND	1,500	160.00/M
	1.8	3.6	30	50	UNHS20500LCT-ND	.57	.46	.35	UNHS20500LTR-ND	1,500	160.00/M
	2.3	4.6	22	50	UNHS20600LCT-ND	.57	.46	.35	UNHS20600LTR-ND	1,500	160.00/M
S-Mini Type Package (2-Pin) UNHZ200 Series											
2	0.7	1.4	93	50	UNHZ20100LCT-ND	.54	.43	.33	UNHZ20100LTR-ND	3,000	143.00/M
	1.0	2.0	59	50	UNHZ20200LCT-ND	.54	.43	.33	UNHZ20200LTR-ND	3,000	143.00/M
	1.2	2.4	46	50	UNHZ20300LCT-ND	.54	.43	.33	UNHZ20300LTR-ND	3,000	143.00/M
	1.5	3.0	35	50	UNHZ20400LCT-ND	.54	.43	.33	UNHZ20400LTR-ND	3,000	143.00/M

Micro Chip Fuse Surface Mount “0603” (1608) Size

Features: • Small size 0603 (1608) • Sharp fusing characteristics (Very fast acting) • Pb free **Applications:** • Computer and peripheral equipment, mobile phone and other digital devices **Approved Safety Standards:** • C-UL(CSA)C22.2 No. 248-14: File No. E194052: UL 248-14: File No. E194052

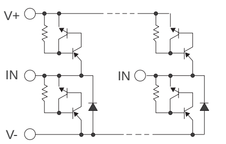
Specifications: • Operating Temperature Range: -40°C to +125°C • Fusing Current / Fusing Time (at 25°C): 100% rated current / 4 hours, Min., 200% rated current / 1 sec., Max., 300% rated current / 0.2 sec., Max.



Rated Current (A)	Rated Voltage (VDC)	Marking Code	Internal R. (mohm) Max. @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000	Panasonic Part No.
ERB-FE Series										
0.5	32	F	330	P11353CT-ND	.42	.39	.30	P11353TR-ND	161.79/M	ERB-FE0R50U
1.0	32	H	120	P11354CT-ND	.42	.39	.30	P11354TR-ND	161.79/M	ERB-FE1R00U
1.5	32	K	70	P11355CT-ND	.42	.39	.30	P11355TR-ND	161.79/M	ERB-FE1R50U
2.0	32	N	50	P11356CT-ND	.42	.39	.30	P11356TR-ND	161.79/M	ERB-FE2R00U
2.5	32	O	38	P11357CT-ND	.42	.39	.30	P11357TR-ND	161.79/M	ERB-FE2R50U
3.0	32	P	31	P11358CT-ND	.42	.39	.30	P11358TR-ND	161.79/M	ERB-FE3R00U
4.0	24	S	22	P11359CT-ND	.42	.39	.30	P11359TR-ND	161.79/M	ERB-FE4R00U
5.0	24	T	17	P11360CT-ND	.42	.39	.30	P11360TR-ND	161.79/M	ERB-FE5R00U

Littelfuse®

ESD Transient Voltage Suppression Arrays



Functional Block Diagram

This is an array of SCR/Diode bipolar structures for ESD and over-voltage protection.

The SCR Structures are designed for fast triggering, if a transient pulse is detected with a voltage level greater than one V_{BE}, negative or positive pulse, the device will be activated.

Some of the applications where this device works very well is for Microprocessor/Logic Input Protection, Data Buss Protection, Analog Device Input Protection, or a Voltage Clamp.

Features:

• Fast Switching Times • Low Input Leakage • Low Input Capacitance • Operating Temperature Range: -40°C to 105°C

ESD Human Body Model (HBM) Capability for SP720 – SP721

HBM Standard	Mode	R	C	ESD(V)
IEC 1000-4-2	Air Direct Direct, Dual Pins	330Ω 330Ω 330Ω	150pF 150pF 150pF	>15kV >4kV >8kV
MIL-STD-3015.7	Direct, In-Circuit	1.5kΩ	100pF	>15kV

ESD Human Body Model (HBM) Capability for SP723 – SP724

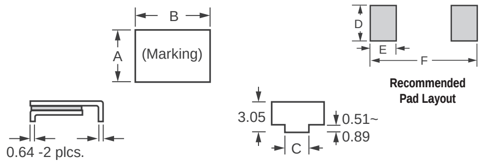
HBM Standard	Mode	RD Dischg. Resistor	CD Dischg. Cap.	±VDDischg. Voltage
IEC 1000-4-2 (Level 4)	HBM, Air Discharge HBM, Direct Discharge	330Ω 330Ω	150pF 150pF	15kV 8kV
MIL-STD-3015.7	Modified HBM Standard HBM	1.5kΩ 1.5kΩ	100pF 100pF	8kV 2kV
EIAJ IC121	Machine Model	0kΩ	200pF	400V

Package	No. of Input Arrays per Package	Operating Voltage (V supply)	Input Leakage Current (nA)	Quiescent Supply Current (nA)	Equivalent SCR ON Threshold (V)	Equivalent SCR ON Resistance (Ohms)	Input Capacitance (pF)	Input Switch Speed (nSec)	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
16-SOIC	14	2-30	5	50	1.1	1	3	2	F2163-ND	3.06	2.82	2.12	SP720AB
16-Dip	14	2-30	5	50	1.1	1	3	2	F2164-ND	3.06	2.82	2.12	SP720AP
8-SOIC	6	2-30	5	50	1.1	1	3	2	F2165-ND	2.11	1.95	1.47	SP721AB
8-Dip	6	2-30	5	50	1.1	1	3	2	F2166-ND	2.11	1.95	1.47	SP721AP
8-SOIC	6	2-30	5	50	1.1	0.5	5	2	F2167-ND	2.80	2.58	1.94	SP723AB
8-Dip	6	2-30	5	50	1.1	0.5	5	2	F2168-ND	2.86	2.64	1.98	SP723AP
SOT-23 (6 pin)	4	1-20	1	100 (Max.)	1.1	1	3	—	F2169CT-ND*	1.93	1.79	1.35	SP724AHT

* For Tape and Reel pricing, change CT-ND to TR-ND and call Digi-Key for pricing. ***NOTE:*** The SP724 is covered by Littelfuse patent 4567500

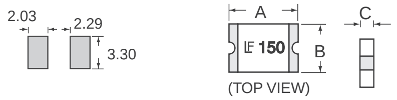
PTC Resettable Devices Surface Mount

3425L Series



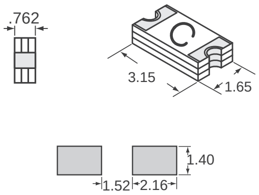
Series	Dimensions (mm) A (max.)	B (max.)	C	D	E	F
3425L	6.71	9.50	3.68	4.57	2.29	10.67

1812L Series



Series	Dimensions (mm) A (max.)	B (max.)	C
1812L 050-150	4.62	3.30	0.69
1812L 200-260	4.62	3.30	1.45

1206L Series



PTC Resettable devices utilize a unique polymer-based, Positive Temperature Coefficient (PTC) material to protect electrical circuits against overcurrent conditions.

PTC Resettable Operation: In normal operation, the Littelfuse PTC has many conductive paths and a very low resistance. In an overcurrent condition, the temperature of the polymer material rises. This dramatically reduces the conductive paths resulting in an immediate rise in resistance. In this condition the device provides circuit protection by significantly limiting the flow of current. However, once the cause of the initial overcurrent condition is eliminated, the Littelfuse PTC cools down and resets to a low resistance value permitting the normal current flow to resume.

Agency Approvals: • UL: Recognized under Components Program of Underwriters Laboratories • CSA: Recognized under Component Acceptance Program of the Canadian Standards Association • TUV approved

ELECTRICAL DEFINITIONS: • **Ihold**: Hold Current: maximum current device will sustain for 4 hours without switching at 20°C • **Itrip**: Trip Current: minimum current that will switch the device into a high resistance state at 20°C • **Isc**: Maximum short circuit current device can withstand at rated voltage • **Ril**: Minimum initial resistance of device at 20°C, prior to tripping • **Rat**: Maximum measured resistance in the nontripped state 1 hour post reflow with reflow conditions of 245°C for 20 seconds.

NOTE: *Devices are not intended to be used for continual, repeated tripping.* ***CAUTION:*** *Operation beyond the specified ratings may result in damage and possible arcing and flame.*

Series	I_{hold} (A)	I_{trip} (A)	Volt. Rating (V)	Isc (A)	Max. Time to Trip Current (A)	Time (Sec)	Resistance (Ω) R_{il}	R_{at}	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Littelfuse Part No.
3425L	1.5	3.0	15.0	40	8.0	5.0	0.060	0.250	F2105CT-ND	.63	.54	.49	F2105TR-ND	1,500	270.00/M	3425L150DR
	2.0	4.0	15.0	40	8.0	12.0	0.050	0.150	F2106CT-ND	.63	.54	.49	F2106TR-ND	1,500	270.00/M	3425L200DR
	2.5	5.0	15.0	40	8.0	25.0	0.035	0.100	F2107CT-ND	.63	.54	.49	F2107TR-ND	1,500	270.00/M	3425L250DR
	3.0	6.0	15.0	40	8.0	32.0	0.020	0.060	F2108CT-ND	.63	.54	.49	F2108TR-ND	1,500	270.00/M	3425L300DR
1812L	0.50	1.00	15.0	40	8.0	0.15	0.100	1.000	F2156CT-ND	.61	.57	.43	F2156TR-ND	2,000	236.25/M	1812L050PRT
	0.75	1.50	13.2	40	8.0	0.30	0.075	.420	F2157CT-ND	.56	.52	.40	F2157TR-ND	2,000	216.00/M	1812L075PRT
	1.10	2.20	6.0	40	8.0	0.30	0.040	.226	F2158CT-ND	.56	.52	.40	F2158TR-ND	2,000	216.00/M	1812L110PRT
	1.25	2.50	6.0	40	8.0	0.25	0.045	.184	F2159CT-ND	.56	.52	.40	F2159TR-ND	2,000	216.00/M	1812L125PRT
	1.50	3.00	6.0	40	8.0	0.30	0.040	.137	F2160CT-ND	.56	.52	.40	F2160TR-ND	2,000	216.00/M	1812L150PRT
	2.00	4.00	6.0	40	8.0	2.50	0.018	.070	F2161CT-ND	.81	.75	.57	F2161TR-ND	1,000	333.50	1812L200MR
1206L	0.20	0.40	15.0	40	8.0	0.05	0.600	2.50	F2109CT-ND	.66	.62	.47	F2109TR-ND	4,000	255.15/M	1206L020YRT
	0.25	0.50	15.0	40	8.0	0.08	0.550	2.30	F2110CT-ND	.66	.62	.47	F2110TR-ND	4,000	255.15/M	1206L025YRT
	0.35	0.70	6.0	40	8.0	0.10	0.250	.800	F2111CT-ND	.66	.62	.47	F2111TR-ND	4,000	255.15/M	1206L035YRT
	0.50	1.00	6.0	40	8.0	0.10	0.090	0.60	F2112CT-ND	.66	.62	.47	F2112TR-ND	3,000	255.15/M	1206L050WRT
	0.75	1.50	6.0	40	8.0	0.20	0.070	0.30	F2113CT-ND	.66	.62	.47	F2113TR-ND	3,000	255.15/M	1206L075WRT
	1.10	2.20	6.0	40	8.0	0.30	0.040	0.18	F2114CT-ND	.66	.62	.47	F2114TR-ND	3,000	255.15/M	1206L110WRT
	1.50	3.00	6.0	40	8.0	0.40	0.030	0.12	F2115CT-ND	.66	.62	.47	F2115TR-ND	3,000	255.15/M	1206L150WRT

Littelfuse®

PulseGuard® SMT ESD Suppressor

Fig. 1 0603

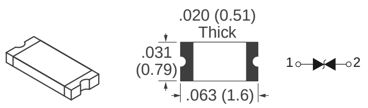


Fig. 2 SOT-23

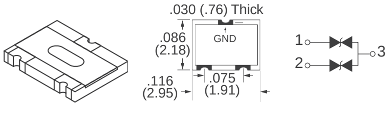


Fig. 3 0805

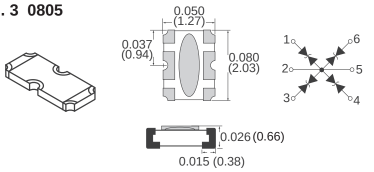
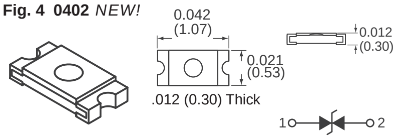


Fig. 4 0402 *NEW!*

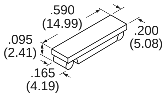


PulseGuard ESD suppressors provide protection for electronic devices against the threat of electrostatic discharge (ESD). Employing a voltage variable material to switch between high resistance and low resistance states, shunting ESD transients away from sensitive circuitry. PulseGuard suppressors comply with ESD specifications (IEC 61000-4-2, MIL-STD-883C (Packages: 0402,0603), MIL-STD-883E (Packages: 0805, SOT-23), USB, IEEE1394, and Infiniband^{SM} **Electrical Specifications: • Trigger Voltage**^{1}**:** 1,000V, 1,200V (Package 0402), typical • **Clamping Voltage**^{1}**:** 150V,200V (Package 0402), typical • **Rated Voltage:** 6VDC (Package 0402), 24VDC, max. • **Capacitance 2:** 0.055pF • **Response Time**^{1}**:** <1 ns • **Leakage Current:** 50µA max. (Package 0402), <1nA • **ESD Pulse Withstand**^{1}**:** 1,000 pulses minimum • **Operating Temperature:** -65°C to +125°C

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Pricing
1	F1320CT-ND	.70	.65	F1320TR-ND	290.00/1000
2	F1321CT-ND	1.23	1.14	F1321TR-ND	1417.50/3000
3	F2162CT-ND	2.07	1.92	F2162TR-ND	855.50/1000
4	F1403CT-ND *NEW!*	.84	.78	F1403TR-ND *NEW!*	348.00/1000

Notes: 1. 8kV direct discharge method, per IEC61000-4-2 **2.** Measured at 6 VDC. Testing at fast ESD pulse rated (1-20 Hz) may cause a change in leakage current performance (6µA, max)

*SMT*elecom™ Fuse



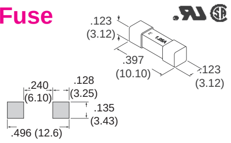
• Surface mount overcurrent protection from lightning and power cross • Ideal for use in telecommunication equipment including modems, fax machines, desk top phones, answering machines and line cards.

% Amp. Rating	Opening Time (Min./Max.)
100%	4 hours, min.
200%	5 sec. / 30 sec.

Electrical Specifications: • Short Circuit Capabilities: UL1459 / UL 1950 3rd. Edt.: 40 amperes @ 600 VAC; 7 amperes @ 600 VAC; 2.2 amperes @ 600 VAC • **Interrupting Ratings:** 10,000 amperes @ 125V; 100 amperes @ 250V • **Operating Temperature Range:** -55°C to +125°C • **Voltage Rating:** 250V **Specifications: • Construction Materials:** Body: Melamine substrate; Terminations: Copper/nickel/tin-lead (95/5) • **Soldering Parameters:** Reflow Solder: 250°C, 10 sec. max.; Wave Solder: Not recommended • **Packaging Specifications:** 24mm Tape and Reel per EIA-RS481, (Equivalent to IEC 286, part 3.) • **Performance Characteristics:** Complies with FCC 47 Part 68 Longitudinal Surge and Metallic Surge; Bellcore GR-1089-CORE

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000
0436 Series						
.750	F1280CT-ND	1.84	1.71	1.29	—	—
1.50	F1283CT-ND	1.84	1.71	1.29	F1283TR-ND	710.00/M

Telecom Nano²® Fuse "0461" Series



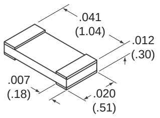
% of Amp. Rating	Opening Time (Min./Max.)
100%	4 hours, min.
250%	1 sec, min; 120 max.

Surface mount overcurrent protection from power cross and allows compliance with lightning surges. Meets UL 1950 3rd Edition (formerly UL 1459) power cross requirements stand alone. Designed to allow compliance with Bellcore/Telcordia GR-1089-CORE and FCC 47 part 68 Surge Specifications. • **Interrupting Ratings:** 50 A @ 250 VAC • **Operating Temperature Range:** -55°C to 125°C • **Materials:** Body: Ceramic; Terminations: Silver Plated Brass Caps • **Soldering Parameters:** Reflow Solder - 230°C, 30 seconds maximum. Wave solder -260°C, 3 seconds maximum • **Packaging Specifications:** 24mm Tape and Reel per EIA-RS481. (IEC 268 part 3); 2500 fuses per reel

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape& Reel Pricing 2,500
0461 Series						
.5	F1449CT-ND	1.47	1.37	1.03	F1449TR-ND	567.00/M
1.25	F1550CT-ND	1.47	1.37	1.03	F1550TR-ND	567.00/M
2.00	F1551CT-ND	1.47	1.37	1.03	F1551TR-ND	567.00/M

"0402" (1005) Slimline™ Very Fast Acting Thin-Film 0435 Series

% of Amp. Rating	Opening Time (Min./Max.)
100%	4 hours, min.
200%	5 Sec., max
300%	0.2 Sec.,max

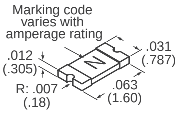


• **Operating Temperature:** -55°C to 90°C • **Voltage Rating:** 24V • **Materials:** Body: Epoxy Substrate; Terminations: Copper/Nickel/Tin-Lead Cover Coat: Conformal Coating • **Soldering Parameter:** Reflow Solder-260° C, 30 seconds maximum • **Packaging Specification:** 8mm Paper Tape and Reel per EIA-RS481-1 (IEC 286, part 3) ; 10,000 per reel. • **Interrupting Ratings:** 35 A @ 24 V AC/DC

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape& Reel Pricing 10,000
0435 Series — Very Fast-Acting						
.250	F1440CT-ND	1.02	.95	.72	F1440TR-ND	392.00/M
.375	F1441CT-ND	1.02	.95	.72	F1441TR-ND	392.00/M
.500	F1442CT-ND	1.02	.95	.72	F1442TR-ND	392.00/M
.750	F1443CT-ND	1.02	.95	.72	F1443TR-ND	392.00/M
1.00	F1444CT-ND	1.02	.95	.72	F1444TR-ND	392.00/M
1.25	F1445CT-ND	1.02	.95	.72	F1445TR-ND	392.00/M
1.50	F1446CT-ND	1.02	.95	.72	F1446TR-ND	392.00/M
1.75	F1447CT-ND	1.02	.95	.72	F1447TR-ND	392.00/M
2.00	F1448CT-ND	1.02	.95	.72	F1448TR-ND	392.00/M

"0603" (1608) Slimline™ Very Fast Acting Thin-Film 0434 Series

% Amp Rating	Opening Time at 25°C
100%	4 hours, min.
200%	5 sec., max.
300%	0.2 sec., max.

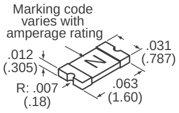


Slimline 0603 is identical to the popular (431 Series) mounting pad and electrical specifications but has a lower profile and enhanced soldering capabilities. **Specifications: • Construction Material:** Body: Epoxy substrate; Terminations: Copper/nickel/tin-lead (95/5); Cover Coat: Conformal Coating • **Interrupting Ratings:** 50 Amps at 32V AC/DC (.25-1A) or 35 Amps at 32V AC/DC (1.25-5A) • **Operating Temperature:** -50°C to +90°C • **Voltage Rating:** 32V • **Tape and Reel Specification:** 8mm wide reels that are in compliance with EIA-RS481

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0434 Series							
.250	D	F1360CT-ND	.85	.79	.60	F1360TR-ND	326.70/M
.375	E	F1361CT-ND	.85	.79	.60	F1361TR-ND	326.70/M
.500	F	F1362CT-ND	.85	.79	.60	F1362TR-ND	326.70/M
.750	G	F1363CT-ND	.85	.79	.60	F1363TR-ND	326.70/M
1.00	H	F1364CT-ND	.85	.79	.60	F1364TR-ND	326.70/M
1.25	J	F1365CT-ND	.85	.79	.60	F1365TR-ND	326.70/M
1.50	K	F1366CT-ND	.85	.79	.60	F1366TR-ND	326.70/M
1.75	L	F1367CT-ND	.85	.79	.60	F1367TR-ND	326.70/M
2.00	N	F1368CT-ND	.85	.79	.60	F1368TR-ND	326.70/M
2.50	O	F1369CT-ND	.85	.79	.60	F1369TR-ND	326.70/M
3.00	P	F1370CT-ND	.85	.79	.60	F1370TR-ND	326.70/M
4.00	S	F1371CT-ND	.85	.79	.60	F1371TR-ND	326.70/M
5.00	T	F1372CT-ND	.85	.79	.60	F1372TR-ND	326.70/M

NEW! "0603" (1608) Lead Free SlimLine™ Very Fast Acting Thin-Film 0467 Series

% of Amp. Rating	Opening Time at 25°C
100%	4 hours, min.
200%	5 sec., max.
300%	0.2 sec., max.



SlimLine 0603 Lead Free complies with electronic industry environmental standards for lead reduction. Product is compatible with lead-free solders and higher temperature profiles. Mounting pad and electrical performance is identical to Littelfuse 0431 and 0434 Series of product. Alloy based element construction provides superior inrush withstand characteristics (I^2t) over ceramic or glass based 0603 fuse products.

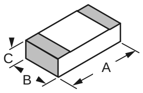
Specifications:

• **Voltage Rating:** 32V AC/DC • **Construction Material:** Body: Advanced High Temperature Substrate; Terminations: Copper/Nickel/100% Tin; Element Cover Coat: Conformal Coating • **Interrupting Ratings:** 50A at 32V AC/DC (0.25-1A), 35A at 32V AC/DC (1.25-5A) • **Operating Temperature:** -55°C to +90°C • **Tape and Reel Specifications:** 8mm wide reels that are in compliance with EIA-RS481-2 (IEC 286, part 3)

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 5,000
0467 Series							
.250	D	F1389CT-ND	.93	.87	.66	F1389TR-ND	360.45/M
.375	E	F1390CT-ND	.93	.87	.66	F1390TR-ND	360.45/M
.500	F	F1391CT-ND	.93	.87	.66	F1391TR-ND	360.45/M
.750	G	F1392CT-ND	.93	.87	.66	F1392TR-ND	360.45/M
1.00	H	F1393CT-ND	.93	.87	.66	F1393TR-ND	360.45/M
1.25	J	F1394CT-ND	.93	.87	.66	F1394TR-ND	360.45/M
1.50	K	F1395CT-ND	.93	.87	.66	F1395TR-ND	360.45/M
1.75	L	F1396CT-ND	.93	.87	.66	F1396TR-ND	360.45/M
2.00	N	F1397CT-ND	.93	.87	.66	F1397TR-ND	360.45/M
2.50	0	F1398CT-ND	.93	.87	.66	F1398TR-ND	360.45/M
3.00	P	F1399CT-ND	.93	.87	.66	F1399TR-ND	360.45/M
3.50	R	F1400CT-ND	.93	.87	.66	F1400TR-ND	360.45/M
4.00	S	F1401CT-ND	.93	.87	.66	F1401TR-ND	360.45/M
5.00	T	F1402CT-ND	.93	.87	.66	F1402TR-ND	360.45/M

"1206" (3216) SMF Very Fast Acting and Slo-Blo® Thin-Film Fuse

	Dimensions - In. (mm) A	B	C
Very Fast Acting	.122 (3.10)	.063 (1.60)	.047 (1.19)
Slo-Blo®	.124 (3.15)	.060 (1.52)	.045 (1.14)



Amp. Rating	Opening Time at 25°C Very Fast Acting	Slo-Blo®
100%	4 hours min.	—
200%	5 sec., max.	1 sec. min., 120 sec. max.
300%	0.2 sec., max.	0.1 sec. min., 3 sec. max.
800%	—	0.002 sec. min., .05 sec. max.

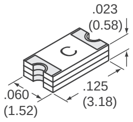
Specifications: • Construction Materials: Body: Epoxy Substrate, Terminations: Copper/Nickel/Tin-Lead (95/5). Cover Coat: Conformal Coating • **Operating Temperature Range:** -55°C to +125°C • **Solderability:** Withstands 60 seconds above 200°C up to 260°C max. • **Tape and Reel Specifications:** Supplied on 8mm wide reels that are in compliance with EIA-RS481-2 (equivalent to IEC 286 part 3). Packaged 3,000 fuses per reel. • **Voltage Ratings:** .125-.375A (125V) .500-2.00A (63V) 2.5-3.0A (32V) 4.0-7.0A (24V)

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
0429 Series — Very Fast-Acting							
.125	FB	F1270CT-ND	.86	.80	.61	F1270TR-ND	330.75/M
.200	FC	F1271CT-ND	.70	.66	.50	F1271TR-ND	271.35/M
.250	FD	F1230CT-ND	.70	.66	.50	F1230TR-ND	271.00/M
.375	FE	F1231CT-ND	.70	.66	.50	F1231TR-ND	271.00/M
.500	FF	F1232CT-ND	.70	.66	.50	F1232TR-ND	271.00/M
.750	FG	F1233CT-ND	.70	.66	.50	F1233TR-ND	271.00/M
1.00	FH	F1234CT-ND	.70	.66	.50	F1234TR-ND	271.00/M
1.25	FJ	F1235CT-ND	.70	.66	.50	F1235TR-ND	271.00/M
1.50	FK	F1236CT-ND	.70	.66	.50	F1236TR-ND	271.00/M
1.75	FL	F1237CT-ND	.70	.66	.50	F1237TR-ND	271.00/M
2.00	FN	F1238CT-ND	.70	.66	.50	F1238TR-ND	271.00/M
2.50	FO	F1272CT-ND	.70	.66	.50	F1272TR-ND	271.35/M
3.00	FP	F1273CT-ND	.70	.66	.50	F1273TR-ND	271.35/M
4.00	FS	F1274CT-ND	.70	.66	.50	F1274TR-ND	271.35/M
5.00	FT	F1275CT-ND	.86	.80	.61	F1275TR-ND	330.75/M
7.00	FU	F1276CT-ND	.86	.80	.61	F1276TR-ND	330.75/M
0430 Series — Slo-Blo®							
.500	TF	F1260CT-ND	1.02	.95	.72	F1260TR-ND	392.00/M
1.00	TH	F1261CT-ND	1.02	.95	.72	F1261TR-ND	392.00/M
1.50	TK	F1262CT-ND	1.02	.95	.72	F1262TR-ND	392.00/M
2.00	TN	F1263CT-ND	1.02	.95	.72	F1263TR-ND	392.00/M

Littelfuse®

“1206” (3216) Slimline™ Very Fast Acting Thin-Film 0433 Series

% of Amp. Rating	Opening Time (Min./Max.)
100% 200% 300%	4 hours, min. 5 Sec., max 0.2 Sec.,max



Mounting pad and electrical specification are identical to the popular (429) Series specifications.

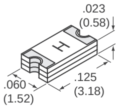
Specifications:

• **Construction Materials:** Body: Epoxy Substrate; Terminations: Copper/Nickel/Tin-Lead (95/5); Cover Coat: Conformal Coating • **Operating Temperature:** -55°C to 90°C • **Interrupting Ratings:** 0.125 - .375A (50A@125V AC/DC), 0.5 - 2A (50A@63V AC/DC), 2.5 - 3A (50A@32V AC/DC) • **Tape and Reel Specification:** Supplied on 8mm wide reels that are in compliance with EIA-RS481-2 (IEC 286, part 3) • **Voltage Ratings:** .125-.375A (125V) .500-2.00A (63V) 2.5-3.0A (32V)

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0433 Series — Very Fast-Acting							
.125	B	F1373CT-ND	.68	.63	.48	F1373TR-ND	260.55/M
.200	C	F1374CT-ND	.68	.63	.48	F1374TR-ND	260.55/M
.250	D	F1375CT-ND	.68	.63	.48	F1375TR-ND	260.55/M
.375	E	F1376CT-ND	.68	.63	.48	F1376TR-ND	260.55/M
.50	F	F1377CT-ND	.68	.63	.48	F1377TR-ND	260.55/M
.60	.6	F1378CT-ND	.68	.63	.48	F1378TR-ND	260.55/M
.75	G	F1379CT-ND	.68	.63	.48	F1379TR-ND	260.55/M
.80	.8	F1380CT-ND	.68	.63	.48	F1380TR-ND	260.55/M
1.0	H	F1381CT-ND	.68	.63	.48	F1381TR-ND	260.55/M
1.25	J	F1382CT-ND	.68	.63	.48	F1382TR-ND	260.55/M
1.5	K	F1384CT-ND	.68	.63	.48	F1384TR-ND	260.55/M
1.75	L	F1385CT-ND	.68	.63	.48	F1385TR-ND	260.55/M
2.0	N	F1386CT-ND	.68	.63	.48	F1386TR-ND	260.55/M
2.5	O	F1387CT-ND	.68	.63	.48	F1387TR-ND	260.55/M
3.0	P	F1388CT-ND	.68	.63	.48	F1388TR-ND	260.55/M

“1206” (3216) Lead-Free Slimline™ Very Fast Acting Thin-Film 0466 Series

% Amp Rating	Opening Time at 25°C
100% 200% 300%	4 hours, min. 5 sec., max. 0.2 sec., max.



Features:

• Complies with electronic industry environmental standards for lead reduction • Product is compatible with lead-free solders and higher temperature profiles • Element covering material is resistant to industry standard cleaning operations • Mounting pad and electrical performance is identical to Littelfuse 429 and 433 Series products • Alloy based element construction provides superior inrush withstand characteristics (I^2t) over ceramic or glass based 1206 chip fuse products

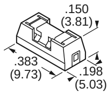
Specifications:

• **Voltage Ratings:** 125V (.125-.375A), 63V (.500-1.75A), 32V (2, 2.5A), 24V (3-10A) • **Operating Temperature:** -55°C to +90°C • **Interrupting Ratings:** 0.125-.375A (50A at 125 V AC/DC), 0.5-2A (50A at 63 V AC/DC), 2.5-3A (50A at 32 V AC/DC), 4-10A (35A at 24V AC/DC) • **Construction Material:** Body: Advanced High Temperature Substrate, Terminations: Copper/Nickel/100% Tin, Element Cover Coat: Conformal Coating

Tape and Reel Specifications:
8mm Tape and Reel per EIA-RS481-2 (IEC 286, part 3)

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0466 Series — Very Fast-Acting							
.125	B	F1450CT-ND	.75	.70	.53	F1450TR-ND	287.55/M
.2	C	F1451CT-ND	.75	.70	.53	F1451TR-ND	287.55/M
.25	D	F1452CT-ND	.75	.70	.53	F1452TR-ND	287.55/M
.375	E	F1453CT-ND	.75	.70	.53	F1453TR-ND	287.55/M
.5	F	F1454CT-ND	.75	.70	.53	F1454TR-ND	287.55/M
.75	G	F1455CT-ND	.75	.70	.53	F1455TR-ND	287.55/M
1	H	F1456CT-ND	.75	.70	.53	F1456TR-ND	287.55/M
1.25	J	F1465CT-ND	.75	.70	.53	F1465TR-ND	287.55/M
1.5	K	F1462CT-ND	.75	.70	.53	F1462TR-ND	287.55/M
1.75	L	F1466CT-ND	.75	.70	.53	F1466TR-ND	287.55/M
2	N	F1457CT-ND	.75	.70	.53	F1457TR-ND	287.55/M
2.5	O	F1464CT-ND	.75	.70	.53	F1464TR-ND	287.55/M
3	P	F1458CT-ND	.75	.70	.53	F1458TR-ND	287.55/M
4	S	F1459CT-ND	.75	.70	.53	F1459TR-ND	287.55/M
5	T	F1460CT-ND	.75	.70	.53	F1460TR-ND	287.55/M
7	U	F1461CT-ND	.75	.70	.53	F1461TR-ND	287.55/M
10	X	F1463CT-ND	.75	.70	.53	F1463TR-ND	287.55/M

SMF Omni-Blok® Fuse Block with Nano^{2}® Very Fast Acting and Slo-Blo® Fuses

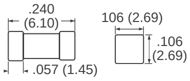


The SMF Omni-Blok® Fuseholder permits quick and easy replacement of Nano^{2}® SMF surface mount fuses. The fuse block and pre-installed fuse combination can be placed on the PC board in one efficient manufacturing operation.
Specifications: • **Electrical:** 7A, 125V • **Molded Parts:** Thermoplastic (94V0) • **Ambient Temperature:** -55°C to +125°C • **Soldering Parameters:** Infrared: 445°F (230°C), 30 sec. • **Packaging:** 16mm wide Tape and Reel per EIA Standard 481. Installed fuses have silver plated end caps, installed to accommodate solder reflow process. Use 451 Series Fast Acting Fuse with tin/lead alloy plated end caps for replacement purposes of the 154 Series product. Use 452 Series Slo-Blo® Fuse with tin/lead alloy plated end caps for replacement purposes of the 154xxxT Series.

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
154 Series – Very Fast Acting						
.250	F1219CT-ND	2.39	2.23	1.68	F1219TR-ND	923.00/M
.500	F1220CT-ND	2.39	2.23	1.68	F1220TR-ND	923.00/M
.750	F1221CT-ND	2.03	1.89	1.43	F1221TR-ND	784.00/M
1.00	F1222CT-ND	2.03	1.89	1.43	F1222TR-ND	784.00/M
1.50	F1223CT-ND	2.03	1.89	1.43	F1223TR-ND	784.00/M
2.00	F1224CT-ND	2.03	1.89	1.43	F1224TR-ND	784.00/M
2.50	F1225CT-ND	2.03	1.89	1.43	F1225TR-ND	784.00/M
3.00	F1226CT-ND	2.03	1.89	1.43	F1226TR-ND	784.00/M
4.00	F1227CT-ND	2.03	1.89	1.43	F1227TR-ND	784.00/M
5.00	F1228CT-ND	2.03	1.89	1.43	F1228TR-ND	784.00/M
154xxxT Series – Slo-Blo®						
.375	F1300CT-ND	2.99	2.78	2.10	F1300TR-ND	1153.00/M
.500	F1301CT-ND	2.99	2.78	2.10	F1301TR-ND	1153.00/M
.750	F1302CT-ND	2.63	2.45	1.85	F1302TR-ND	1015.00/M
1.00	F1303CT-ND	2.63	2.45	1.85	F1303TR-ND	1015.00/M
1.50	F1304CT-ND	2.63	2.45	1.85	F1304TR-ND	1015.00/M
2.00	F1305CT-ND	2.63	2.45	1.85	F1305TR-ND	1015.00/M
2.50	F1306CT-ND	2.63	2.45	1.85	F1306TR-ND	1015.00/M
3.00	F1307CT-ND	2.63	2.45	1.85	F1307TR-ND	1015.00/M
3.50	F1308CT-ND	2.63	2.45	1.85	F1308TR-ND	1015.00/M
4.00	F1309CT-ND	2.63	2.45	1.85	F1309TR-ND	1015.00/M
5.00	F1310CT-ND	2.63	2.45	1.85	F1310TR-ND	1015.00/M

Nano^{2}® SMF Very Fast-Acting and Slo-Blo® Fuses

1-5 Amp
R451 Series



Nano^{2}® Surface Mount Fuses incorporate proven Picofuse performance and dependability in a flat top design which permits efficient pick and place assembly. • **Recommended Soldering Parameters:** *Infrared Reflow* for 30 sec. is 500°F (260°C) for Very Fast-Acting; 445°F (230°C) for Slo-Blo®. *Wave Solder* is 500°F (260°C) for 10 seconds for Very Fast-Acting; 500°F (260°C) for 3 seconds maximum for Slo-Blo®. • **Construction Materials:** Body is ceramic, Caps are tin-lead alloy plated brass. • **Operating Temperature Range:** -55°C to 125°C. • **Voltage Rating:** 125V, 65V: F1155 and F1151

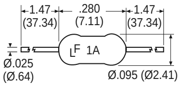
Fast Acting			Slo-Blo®	
Rating	Amps	Blow Time	Rating	Blow Time (Min. / Max.)
100% 200% 200%	1/16-15 1/16-10 12-15	4 hours min. 5 sec., max. 20 sec., max.	100% 200% 300% 800%	4 hrs. min. 1 sec. / 60 sec. 0.2 / 3 sec. 0.02 / 0.1 sec.

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
R451 Series - Very Fast Acting						
.250	F1140CT-ND•	.93	.87	.65	F1140TR-ND•	384.00
.375	F1152CT-ND	.93	.87	.65	F1152TR-ND	384.00
.500	F1141CT-ND•	.93	.87	.65	F1141TR-ND•	384.00
.750	F1142CT-ND•	.93	.87	.65	F1142TR-ND•	384.00
1.000	F1143CT-ND•	.93	.87	.65	F1143TR-ND•	384.00
1.500	F1144CT-ND•	.93	.87	.65	F1144TR-ND•	384.00
2.000	F1145CT-ND•	.93	.87	.65	F1145TR-ND•	384.00
2.500	F1146CT-ND•	.93	.87	.65	F1146TR-ND•	384.00
3.000	F1147CT-ND•	.93	.87	.65	F1147TR-ND•	384.00
3.500	F1153CT-ND	.93	.87	.65	F1153TR-ND	384.00
4.000	F1148CT-ND•	.93	.87	.65	F1148TR-ND•	384.00
5.000	F1149CT-ND•	.93	.87	.65	F1149TR-ND•	384.00
7.000	F1154CT-ND	.93	.87	.65	F1154TR-ND	384.00
10.000	F1150CT-ND•	1.47	1.37	1.04	F1150TR-ND•	610.00
12.000	F1155CT-ND	1.47	1.37	1.04	F1155TR-ND	610.00
15.000	F1151CT-ND	1.47	1.37	1.04	F1151TR-ND	610.00
R452 Series – Slo-Blo®						
0.375	F1340CT-ND	1.23	1.14	.86	F1340TR-ND	508.00
0.500	F1341CT-ND	1.23	1.14	.86	F1341TR-ND	508.00
0.750	F1342CT-ND	1.23	1.14	.86	F1342TR-ND	508.00
1.000	F1343CT-ND	1.23	1.14	.86	F1343TR-ND	508.00
1.500	F1344CT-ND	1.23	1.14	.86	F1344TR-ND	508.00
2.000	F1345CT-ND	1.23	1.14	.86	F1345TR-ND	508.00
2.500	F1346CT-ND	1.23	1.14	.86	F1346TR-ND	508.00
3.000	F1347CT-ND	1.23	1.14	.86	F1347TR-ND	508.00
3.500	F1348CT-ND	1.23	1.14	.86	F1348TR-ND	508.00
4.000	F1349CT-ND	1.23	1.14	.86	F1349TR-ND	508.00
5.000	F1350CT-ND	1.23	1.14	.86	F1350TR-ND	508.00

- **SMF-KIT-ND** ***Digi-Key® Nano^{2}® SMF/Pico SMD Fuse Kit***
  5 each of ***Nano^{2}® SMF Fuses*** parts indicated and 5 each of
  Pico SMD Very Fast-Acting and Slo-Blo® Fuses **$99.95**

PICO II™ 125 Volt Very Fast-Acting Pico Fuses

QPL
1-5 Amp



Electrical Characteristics:

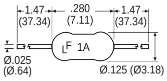
Rating	Amperage	Blow Time
100% 200% 200%	1/16 – 15 1/16 – 10 12 – 15	4 hours, min. 5 seconds, max. 10 seconds, max.

Patents:
U.S. Patent #2,385,281
Construction Materials:
Body:UL94V0
epoxy coating, green.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 1	10	100
R251 Series — Non Color-Coded Type					
.0625	125	F820-ND	1.38	1.29	.89
.125	125	F821-ND	1.02	.95	.66
.250	125	F822-ND	1.02	.95	.66
.375	125	F823-ND	1.02	.95	.66
.500	125	F824-ND	1.02	.95	.66
.750	125	F825-ND	.85	.79	.55
1.000	125	F826-ND	.85	.79	.55
1.500	125	F827-ND	.85	.79	.55
2.000	125	F828-ND	.85	.79	.55
2.500	125	F829-ND	.85	.79	.55
3.000	125	F830-ND	.85	.79	.55
3.500	125	F831-ND	.85	.79	.55
4.000	125	F832-ND	.85	.79	.55
5.000	125	F833-ND	.85	.79	.55
7.000	125	F834-ND	.85	.79	.55
10.000	125	F835-ND	.85	.79	.55
12.000	32	F836-ND	1.80	1.68	1.16
15.000	32	F837-ND	1.80	1.68	1.16

PICO II™ 125 Volt Slo-Blo® Pico Fuses

1-5 Amp



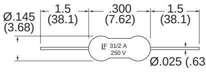
Construction Materials: Body-UL94V0 epoxy coating, gold. Leads-solder coated copper wire. **Operating Temperature Range:**
-55°C to 125°C.

Electrical Characteristics:

Rating	Blow Time	Rating	Blow Time
100% 300%	4 hrs., min. 3 sec., max.	200% 800%	60 sec., max. 0.1 sec., max.

Amp. Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Pricing 4,000
473 Series - Non-Color Coded Type					
.500	F1200CT-ND	1.81	1.68	F1200TR-ND	698.00/M
.750	F1201CT-ND	1.81	1.68	F1201TR-ND	698.00/M
1.000	F1202CT-ND	1.81	1.68	F1202TR-ND	698.00/M
1.500	F1203CT-ND	1.81	1.68	F1203TR-ND	698.00/M
2.000	F1204CT-ND	1.81	1.68	F1204TR-ND	698.00/M
2.500	F1205CT-ND	1.81	1.68	F1205TR-ND	698.00/M
3.000	F1206CT-ND	1.81	1.68	F1206TR-ND	698.00/M
3.500	F1207CT-ND	1.81	1.68	F1207TR-ND	698.00/M
4.000	F1208CT-ND	1.81	1.68	F1208TR-ND	698.00/M
5.000	F1209CT-ND	1.81	1.68	F1209TR-ND	698.00/M

PICO II™ 250 Volt Very Fast-Acting Pico Fuses



Interrupting Rating: 50 amperes at 250 VAC
Construction Materials: Encapsulated, epoxy-coated body; solder coated copper leads; green in color

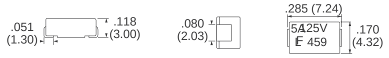
Electrical Characteristics:

% Amp. Rating	Opening Time (Min./Max.)
100% 200% 300%	4 hours, min. 1 sec. max. 0.1 sec. max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 1	10	100
263 Series					
.062	250	F880-ND	2.28	2.12	1.60
.125	250	F881-ND	1.82	1.69	1.28
.250	250	F882-ND	1.82	1.69	1.28
.375	250	F883-ND	1.82	1.69	1.28
.500	250	F884-ND	1.82	1.69	1.28
.750	250	F885-ND	1.50	1.40	1.06
1.00	250	F886-ND	1.50	1.40	1.06
1.50	250	F887-ND	1.50	1.40	1.06
2.00	250	F888-ND	1.50	1.40	1.06
2.50	250	F889-ND	1.50	1.40	1.06
3.00	250	F890-ND	1.50	1.40	1.06
3.50	250	F891-ND	1.50	1.40	1.06
4.00	250	F892-ND	1.50	1.40	1.06
5.00	250	F893-ND	1.50	1.40	1.06

1-5 Amp
R460 Series

Pico SMD Very Fast-Acting and Slo-Blo® SMT Fuses



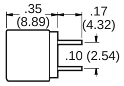
EIA Case Code 7343 Laser etched for ease of identification. • **Operating Temperature:** -55°C to +125°C • **Soldering Methods:** *Infrared Reflow* is 500°F (260°C) maximum temperature for Very Fast-Acting; 446°F (230°C) maximum temperature for Slo-Blo®. *Thru the wave soldering* is 500°F (260°C),10 seconds maximum. • **Voltage Rating:** 125

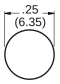
Rating	Fast-Acting Blow Time	Slo-Blo® Blow Time
100%	4 hrs. min.	4 hrs., min.
200%	1 sec. max.	60 sec., max.
300%	—	3 sec., max.
800%	—	0.1 sec. max.

Amp. Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500
R459 Series – Very Fast-Acting						
.125	F1160CT-ND	.88	.82	.62	F1160TR-ND	200.00
.250	F1161CT-ND	.88	.82	.62	F1161TR-ND	200.00
.375	F1162CT-ND•	.88	.82	.62	F1162TR-ND•	200.00
.500	F1163C T-ND•	.88	.82	.62	F1163TR-ND•	200.00
.750	F1164CT-ND•	.88	.82	.62	F1164TR-ND•	200.00
1.000	F1165CT-ND•	.88	.82	.62	F1165TR-ND•	200.00
1.500	F1166CT-ND•	.88	.82	.62	F1166TR-ND•	200.00
2.000	F1167CT-ND•	.88	.82	.62	F1167TR-ND•	200.00
2.500	F1168CT-ND•	.88	.82	.62	F1168TR-ND•	200.00
3.000	F1169CT-ND•	.88	.82	.62	F1169TR-ND•	200.00
3.500	F1170CT-ND•	.88	.82	.62	F1170TR-ND•	200.00
4.000	F1171CT-ND•	.88	.82	.62	F1171TR-ND•	200.00
5.000	F1172CT-ND•	.88	.82	.62	F1172TR-ND•	200.00
R460 Series – Slo-Blo®						
.375	F1180CT-ND•	1.86	1.73	1.30	F1180TR-ND•	424.00
.500	F1181CT-ND•	1.86	1.73	1.30	F1181TR-ND•	424.00
.750	F1182CT-ND	1.86	1.73	1.30	F1182TR-ND	424.00
1.000	F1183CT-ND•	1.86	1.73	1.30	F1183TR-ND•	424.00
1.500	F1184CT-ND•	1.86	1.73	1.30	F1184TR-ND•	424.00
2.000	F1185CT-ND•	1.86	1.73	1.30	F1185TR-ND•	424.00
2.500	F1186CT-ND	1.86	1.73	1.30	F1186TR-ND	424.00
3.000	F1187CT-ND•	1.86	1.73	1.30	F1187TR-ND•	424.00
3.500	F1188CT-ND	1.86	1.73	1.30	F1188TR-ND	424.00
4.000	F1189CT-ND•	1.86	1.73	1.30	F1189TR-ND•	424.00
5.000	F1190CT-ND•	1.86	1.73	1.30	F1190TR-ND•	424.00

- **SMF-KIT-ND** ***Digi-Key® Pico SMD/Nano2® SMF Fuse Kit***
  5 each of ***Pico SMD Fuses*** parts indicated and 5 each of ***Nano2® SMF Very Fast-Acting and SloBlo® Fuses*** **$99.95**

Microfuse Very Fast-Acting Type





QPL

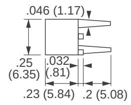
Approvals: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA
Operating Temperature Range: 55°C to 85C

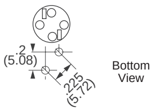
Electrical Characteristics:

Rating	Amperage	Opening Time
100%	1/500 — 5	4 hrs., min.
200%	1/500 — 3/10	5 sec., max.
200%	4/10 — 5	2 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 1	100	250
273 Series — Fast-Acting Type					
.031	125	F854-ND	22.03	18.03	16.02
.050	125	F855-ND	3.83	3.13	2.79
.100	125	F857-ND	3.83	3.13	2.79
.125	125	F858-ND	3.83	3.13	2.79
.200	125	F859-ND	5.86	4.80	4.27
.250	125	F860-ND	3.83	3.13	2.79
.300	125	F861-ND	3.83	3.13	2.79
.400	125	F862-ND	3.83	3.13	2.79
.500	125	F863-ND	3.83	3.13	2.79
.600	125	F864-ND	5.86	4.80	4.27
.700	125	F865-ND	5.86	4.80	4.27
.750	125	F866-ND	3.83	3.13	2.79
1.000	125	F868-ND	3.83	3.13	2.79
1.500	125	F869-ND	3.83	3.13	2.79
2.000	125	F870-ND	3.83	3.13	2.79
3.000	125	F871-ND	3.83	3.13	2.79
4.000	125	F872-ND	3.83	3.13	2.79
5.000	125	F873-ND	3.83	3.13	2.79

Microfuse Fuseholder



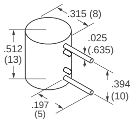


Fuseholder will accept Littelfuse Microfuses and PICO II™ fuses (rated to 5 amperes) with .025” (.64mm) diameter leads.

Electrical: Rated at 5 amperes for any voltage up to 125 volts. **Molded Parts:** White thermoplastic. **Terminals:** Copper alloy. **Ambient Temperature:** -40°C to +100°C. Silver terminal plating

Mounting	Digi-Key Part No.	Price Each 1	100	250
Vertical	F060-ND	1.77	1.29	1.15
Horizontal	F061-ND	1.77	1.29	1.15

Safe-T-Plus Fuses



- Designed to allow equipment to meet “Intrinsically Safe” certification for applications in gas plants, petrochemical and processing industries where there is a danger of gas explosion from faulty circuits.
- Hermetically sealed. **Voltage Rating:** 125V. **Interrupting Ratings:** 50 amperes at 125 VAC; 300 amperes at 125 VDC

Agency Approvals: Meets CENELEC EN50 014 to 039 and IEC 60079-11 and BASEEFA BS 5501, part 7.

Electrical Characteristics:

% Amp. Rating	Opening Time
100%	4 hours, min.
200%	5 seconds, max.

Amp. Rating	Volt. Drop	Digi-Key Part No.	Price Each 1	100	250
259 Series					
.062	2.1	F1311-ND	4.56	2.70	2.40
.125	1.3	F1312-ND	4.56	2.70	2.40
.250	0.83	F1313-ND	4.56	2.70	2.40
.375	0.81	F1314-ND	4.56	2.70	2.40
.500	0.78	F1315-ND	4.56	2.70	2.40
.750	0.23	F1316-ND	4.56	2.70	2.40
1.000	0.24	F1317-ND	4.56	2.70	2.40

Schedule of Limitations:

1. The fuse must be so mounted that creepage and clearance distances meet the requirements of Table 2 of EN50020 :1977 or Table 4 of EN500020: 1994 (equivalent to IEC 60079-11 4th Edition 1999).

2. When used in intrinsically safe apparatus it will be necessary to determine a surface temperature classification for the fuse.

350 Volt SMT Fuses

Fast-Acting EBF Series

1-5 Amp

- Ideal for use in electronic lighting ballast, power supply and power inverter applications
- Rated for use in 125, 250, 277 and 350 VAC circuits.

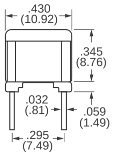
Agency Approvals: UL recognized, CSA certified, MITI approved for 5 amperes

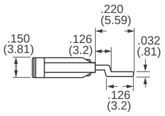
Interrupting Ratings: 100 amperes at 350 VAC

Operating Temperature: -40°C to +125°C

Physical Specifications: Materials: Nylon Body; Silver Plated Zinc Terminations

Packaging Specifications: 24mm Tape and Reel per EIA-RS481 (equivalent to IEC 286, part 3); 800 fuses per reel



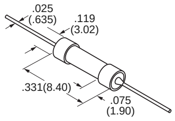


Electrical Characteristics:

% Amp. Rating	Opening Time
100%	4 hours, min.
200%	0.15 sec. min., 5 sec. max.

Amp. Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 800
446 Series						
2	F1000CT-ND	.81	.75	.57	F1000TR-ND	294.40
3	F1001CT-ND	.81	.75	.57	F1001TR-ND	294.40
4	F1002CT-ND	.81	.75	.57	F1002TR-ND	294.40
5	F1003CT-ND	.81	.75	.57	F1003TR-ND	294.40
7.5	F1004CT-ND	.81	.75	.57	F1004TR-ND	294.40
10	F1005CT-ND	.81	.75	.57	F1005TR-ND	294.40

Barrier Network Fuses



- Meets Barrier Network Standards (EN50020) for hazardous applications
- High interrupting rating

Voltage Rating: 250V
Interrupting Ratings: 4000 amperes at 250 VAC/VDC

Part No.	Color Coding
F1290	Red
F1291	Green
F1292	Blue
F1293	Violet
F1294	Brown
F1295	Black

Electrical Characteristics:

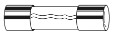
% Amp. Rating	Opening Time
110%	4 hours, min.
300%	10 seconds, max.
1000%	0.002 seconds, max.

Amp. Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 500
242 Series						
.050	F1290CT-ND	4.20	3.90	2.94	F1290TB-ND	960.00
.080	F1291CT-ND	4.20	3.90	2.94	F1291TB-ND	960.00
.100	F1292CT-ND	4.20	3.90	2.94	F1292TB-ND	960.00
.160	F1293CT-ND	4.20	3.90	2.94	F1293TB-ND	960.00
.200	F1294CT-ND	4.20	3.90	2.94	F1294TB-ND	960.00
.250	F1295CT-ND	4.20	3.90	2.94	F1295TB-ND	960.00

Metric (5x20mm) Fuses

Fast-Acting High-Interrupting 216 Series
Fast-Acting 217 Series
Slo-Blo® 218 Series

Electrical Characteristics:



Amp. (%)	216 Series .05-3.15A	216 Series 4-10A	217 Series .032-.100A	217 Series .125-10A	218 Series .032-.100A	218 Series .125-10A
150	60 min. min.	60 min. min.	60 min. min.	60 min. min.	60 min. min.	60 min. min.
210	30 min. max.	30 min. max.	30 min. max.	30 min. max.	2 min. max.	2 min. max.
275	0.01-2 sec.	0.01-3 sec.	0.01-0.5 sec.	0.05-2 sec.	0.2-10 sec.	0.6-10 sec.
400	0.003-0.3 sec.	0.003-0.3 sec.	0.003-0.1 sec.	0.01-0.3 sec.	0.04-3 sec.	0.15-3 sec.
1000	0.02 sec. max.	0.02 sec. max.	0.02 sec. max.	0.02 sec max.	0.01-0.3 sec.	0.02-0.3 sec.

Approvals:

216 Series: SEMKO approved thru 6.3 amps; UL and CSA recognized.

217 Series: SEMKO approved thru 6.3 amps; BSI approved .4-5 amps; UL and CSA recognized.

218 Series: SEMKO approved thru 6.3 amps; BSI and VDE approved .05-6.3 amps; UL and CSA recognized.

Interrupting Capacity:

216 Series: 1500 Amperes
217 Series: 35 Amperes or 10 x rated current, whichever is greater
218 Series: 35 Amperes or 10 x rated current, whichever is greater.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
216 Series – Fast-Acting Interrupting Type; Ceramic Body					
.050	250	F900-ND	1.40	1.05	.94
.080	250	F902-ND	1.40	1.05	.94
.100	250	F903-ND	1.12	.84	.75
.125	250	F904-ND	1.12	.84	.75
.160	250	F905-ND	1.12	.84	.75
.200	250	F906-ND	1.12	.84	.75
.250	250	F907-ND	1.12	.84	.75
.315	250	F908-ND	1.12	.84	.75
.400	250	F909-ND	1.12	.84	.75
.500	250	F910-ND	1.12	.84	.75
.630	250	F911-ND	1.12	.84	.75
.800	250	F912-ND	1.12	.84	.75
1.000	250	F913-ND	1.12	.84	.75
1.250	250	F914-ND	1.12	.84	.75
1.600	250	F915-ND	1.12	.84	.75
2.000	250	F916-ND	1.12	.84	.75
2.500	250	F917-ND	1.12	.84	.75
3.150	250	F918-ND	1.12	.84	.75
4.000	250	F919-ND	1.12	.84	.75
5.000	250	F920-ND	1.12	.84	.75
6.300	250	F921-ND	1.12	.84	.75
8.000	250	F922-ND	1.40	1.05	.94
10.000	250	F923-ND	1.40	1.05	.94
217 Series— Fast-Acting Type					
.032	250	F930-ND	1.32	.99	.88
.040	250	F931-ND	1.32	.99	.88

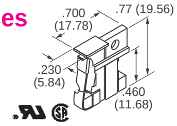
(Continued)

Littelfuse®

Metric (5x20mm) Fuses *(Cont.)*

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
217 Series— Fast-Acting Type (cont.)					
.050	250	F932-ND	1.32	.99	.88
.063	250	F933-ND	1.32	.99	.88
.080	250	F934-ND	1.32	.99	.88
.100	250	F935-ND	1.32	.99	.88
.125	250	F936-ND	1.32	.99	.88
.160	250	F937-ND	.78	.58	.52
.200	250	F938-ND	.78	.58	.52
.250	250	F939-ND	.78	.58	.52
.315	250	F940-ND	.78	.58	.52
.400	250	F941-ND	.78	.58	.52
.500	250	F942-ND	.24	.18	.16
.630	250	F943-ND	.24	.18	.16
.800	250	F944-ND	.24	.18	.16
1.000	250	F945-ND	.24	.18	.16
1.250	250	F946-ND	.24	.18	.16
1.600	250	F947-ND	.24	.18	.16
2.000	250	F948-ND	.24	.18	.16
2.500	250	F949-ND	.24	.18	.16
3.150	250	F950-ND	.24	.18	.16
4.000	250	F951-ND	.24	.18	.16
5.000	250	F952-ND	.24	.18	.16
6.300	250	F953-ND	.24	.18	.16
8.000	250	F954-ND	.89	.67	.59
10.000	250	F955-ND	.89	.67	.59
218 Series — Slo-Blo® Type					
.032	250	F960-ND	1.74	1.31	1.16
.040	250	F961-ND	1.74	1.31	1.16
.050	250	F962-ND	1.74	1.31	1.16
.063	250	F963-ND	1.74	1.31	1.16
.080	250	F964-ND	1.74	1.31	1.16
.100	250	F965-ND	1.02	.77	.68
.125	250	F966-ND	1.02	.77	.68
.160	250	F967-ND	1.02	.77	.68
.200	250	F968-ND	1.02	.77	.68
.250	250	F969-ND	1.02	.77	.68
.315	250	F970-ND	1.02	.77	.68
.400	250	F971-ND	1.02	.77	.68
.500	250	F972-ND	.70	.52	.47
.630	250	F973-ND	.70	.52	.47
.800	250	F974-ND	.70	.52	.47
1.000	250	F975-ND	.70	.52	.47
1.250	250	F976-ND	.70	.52	.47
1.600	250	F977-ND	.70	.52	.47
2.000	250	F978-ND	.70	.52	.47
2.500	250	F979-ND	.70	.52	.47
3.150	250	F980-ND	.70	.52	.47
4.000	250	F981-ND	.70	.52	.47
5.000	250	F982-ND	.70	.52	.47
6.300	250	F983-ND	.70	.52	.47
8.000	250	F984-ND	1.09	.82	.73
10.000	250	F985-ND	1.09	.82	.73

Alarm Indicating Fuses



Electrical Characteristics:

% of Amp. Rating	Opening Time
100%	10 minutes, min.
150%	5 minutes, max.

Alarm Indicating Fuses are ideal for telecom and control panel circuits. Color coded flag conforms to telecom color standards to easily identify amperage ratings. This series has enhancements with an expanded amperage range and higher interrupting ratings, making this a viable replacement for competitive lines such as Bussmann: GMT and San-O: AX-1 series product.

Agency Approval File Numbers: UL E71611, CSA LR29862.

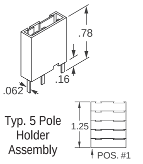
Construction Materials: Body – Polyphenylene Sulfide (UL 94V0). Terminations – Beryllium Copper, Tin Plated. **Voltage Rating:** 125 VAC or 60 VDC. **Interrupting Rating:** 450 Amps at 60 VDC; 300 Amps at 125 VAC/VDC. **Operating Temp. Range:** -55°C to +125°C.

Amp. Rating	Color Code	Digi-Key Part No.	Price Each 1	10	100
0481 Series — Alarm Indicating Type					
.180	Yellow	F712-ND	1.74	1.60	1.20
.250	Violet	F713-ND	1.74	1.60	1.20
.500	Red	F714-ND	1.74	1.60	1.20
.750	Brown	F715-ND	1.74	1.60	1.20
1.000	Gray	F716-ND	1.74	1.60	1.20
1.333	White	F717-ND	1.74	1.60	1.20
1.500	Ylw/Wht	F718-ND	1.74	1.60	1.20
2.000	Orange	F719-ND	1.74	1.60	1.20
3.000	Blue	F720-ND	1.74	1.60	1.20
3.500	Blue/Wht	F721-ND	1.74	1.60	1.20
4.000	Brn/Wht	F722-ND	1.74	1.60	1.20
5.000	Green	F723-ND	1.74	1.60	1.20
7.500	Blk/Wht	F724-ND	1.74	1.60	1.20
10.000	Red/Wht	F725-ND	1.74	1.60	1.20
12.000	Grn/Ylw	F726-ND	1.74	1.60	1.20
15.000	Red/Blue	F727-ND	1.74	1.60	1.20

Gangable Alarm Indicating Fuseholder

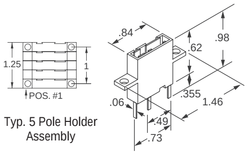
Dim. in inches

PCB Mount



Typ. 5 Pole Holder Assembly

Panel Mount †



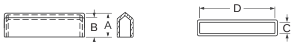
Typ. 5 Pole Holder Assembly

Specifications:
• **Electrical:** Rated at 15 amperes for any voltage up to 125 VAC, 125VDC • **Molded Bodies:** Thermoplastic (UL 94VO) • **Terminals:** Alarm Terminal – Brass, tin-plated, wire-wrap type; Fuse Terminal – Beryllium copper, tin-plated

No. of Poles	Digi-Key Part No. PCB Mt.	Digi-Key Part No. Panel Mt.	Price Each 1	10	100
1	F1400-ND	F1420-ND	1.54	1.42	1.07
2	F1401-ND	F1421-ND	3.07	2.84	2.13
3	F1402-ND	F1422-ND	4.61	4.26	3.20
4	F1403-ND	F1423-ND	6.15	5.68	4.26
5	F1404-ND	F1424-ND	7.69	7.10	5.33
6	F1405-ND	F1425-ND	9.22	8.52	6.39
7	F1406-ND	F1426-ND	10.76	9.94	7.45
8	F1407-ND	F1427-ND	12.30	11.36	8.52
9	F1408-ND	F1428-ND	13.84	12.78	9.58
10	F1409-ND	F1429-ND	15.37	14.19	10.65
11	F1410-ND	F1430-ND	16.91	15.61	11.71
12	F1411-ND	F1431-ND	18.45	17.03	12.78
13	F1412-ND	F1432-ND	19.98	18.45	13.84
14	F1413-ND	F1433-ND	21.52	19.87	14.90
15	F1414-ND	F1434-ND	23.06	21.29	15.97
16	F1415-ND	F1435-ND	24.60	22.71	17.03
17	F1416-ND	F1436-ND	26.13	24.13	18.10
18	F1417-ND	F1437-ND	27.67	25.55	19.16
19	F1418-ND	F1438-ND	29.21	26.97	20.23
20	F1419-ND	F1439-ND	30.75	28.38	21.29

† On Panel Mount, first & last position have mounting holes only.

Richco ‘Quick Fit’ Fuse Covers



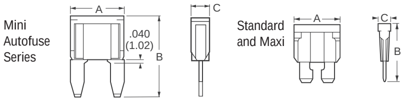
• For use on fuse terminal blocks or PCB-mounted fuse clips • UL recognized E81260, rating 105°C, 600V • Material: Flexible PVC, RMS-55 • Color: Transparent blue

Dim.	Digi-Key Part No. RP613-ND	RP614-ND	RP615-ND	RP616-ND
A	.50 (12.70)	.50 (12.70)	.63 (16.00)	.50 (12.70)
B	.39 (9.91)	.39 (9.91)	.58 (14.73)	.39 (9.91)
C	.24 (6.10)	.28 (7.11)	.32 (8.13)	.32 (8.13)
D	.79 (20.07)	1.18 (29.97)	1.26 (32.00)	1.42 (36.07)

Fuse Type	Digi-Key Part No.	Price Each 25	100	Richco Part No.
Metric	RP613-ND	.52	.45	840620
Metric	RP614-ND	.94	.81	840730
Metric	RP615-ND	.99	.85	840832
Standard	RP616-ND	1.26	1.08	840836

Littelfuse®

ATO Fuse: Mini, ATO and Maxi



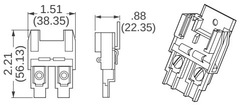
Designed and originated by Littelfuse for the automotive industry, the ATO fuse has become the original equipment circuit protection standard for foreign and domestic automobiles and trucks. This fuse can also be specified for a variety of low voltage electronic applications.

Design Standards: UL Standard for Automotive Blade Type Fuses. SAE (Society of Automotive Engineers) J1284. **Color-Coding:** Autofuse fuses are color-coded for easy amperage identification. **Voltage Rating:** 32V. **Approvals:** 297 Series: UL listed, 257 series: UL listed 3-40 amps; CSA certified 3-30 amps. 299 Series: UL recognized 20-60 amps. **Body Material:** 297 Series: Nylon, 257 & 299 Series: Plastic.

Fuse Type	Dimensions - Inch (mm) A	B	C
Mini-Fuse	.43 (10.92)	.63 (16.00)	.15 (3.81)
ATO Fuse	.75 (19.05)	.73 (18.54)	.20 (5.08)
Maxi-Fuse	1.15 (29.21)	1.35 (34.29)	.35 (8.89)

Amp. Rtg.	Color Code	Digi-Key Part No.	Price Each 5	100	250
297 Series — Mini Fuses					
2	Grey	F986-ND	.39	.36	.32
3	Violet	F987-ND	.39	.36	.32
4	Pink	F988-ND	.39	.36	.32
5	Tan	F989-ND	.39	.36	.32
7.5	Brown	F990-ND	.39	.36	.32
10	Red	F991-ND	.39	.36	.32
15	Blue	F992-ND	.39	.36	.32
20	Yellow	F993-ND	.39	.36	.32
25	Natural	F994-ND	.39	.36	.32
30	Green	F995-ND	.39	.36	.32
257 Series — Fuses					
3	Violet	F996-ND	.34	.31	.28
4	Pink	F997-ND	.34	.31	.28
5	Tan	F998-ND	.34	.31	.28
7.5	Brown	F999-ND	.34	.31	.28
10	Red	F1015-ND	.51	.31	.28
15	Blue	F1016-ND	.51	.31	.28
20	Yellow	F1017-ND	.51	.31	.28
25	Natural	F1018-ND	.51	.31	.28
30	Green	F1019-ND	.45	.27	.24
40	Amber	F1220-ND	.51	.31	.28
299 Series — Maxi Fuses					
20	Yellow	F1035-ND	1.06	.98	.87
30	Green	F1036-ND	1.06	.98	.87
40	Amber	F1037-ND	1.06	.98	.87
50	Red	F1038-ND	1.06	.98	.87
60	Blue	F1039-ND	1.06	.98	.87

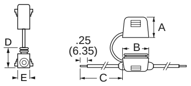
MAXIFUSE BLOCK:



- Rated to 60 amperes at 32 volts
- Interlocking block feature
- Built-in mounting bracket

Description	Digi-Key Part No.	Price Each 1	100	250
Maxi Fuse Block	F1085-ND	15.18	12.42	11.04

IN-LINE FUSEHOLDERS:



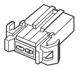
- Rated at 32 volts
- Protective cover included

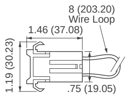
Dim.	Fuse Type - Inch (mm) MINI	ATO	MAXI
A	.52 (13.21)	.97 (24.64)	1.35 (34.29)
B	.97 (24.64)	1.00 (25.40)	3.36 (85.34)
C	4.0 (101.60)	4.0 (101.60)	6.0 (152.40)
D	.60 (15.24)	.67 (17.02)	1.39 (35.31)
E	.41 (10.41)	.43 (10.92)	1.12 (28.45)

Description	AWG Wire	Amp Rtg. (max.)	Digi-Key Part No.	Price Each 1	100	250
In-line Mini Holder	14	20	F1057-ND	3.19	2.16	1.92
In-line Mini Holder	12	30	F1058-ND	3.40	2.30	2.04
In-line Maxi Holder	6	60	F1059-ND	17.92	12.11	10.76
In-line ATO Holder	16	20	F1086-ND	3.14	2.12	1.89
In-line ATO Holder	12	30	F1087-ND	3.63	2.46	2.18

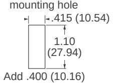
PANEL MOUNT ATO FUSEHOLDER:

- Assembled with 8” (203.2mm) wire loop, no fuse
- #14 wire/terminals rated to 20A
- #10 wire/terminals rated to 30
- Snap mounting to panel
- Fuseholders interlock for multiple mounting.





Recommended panel mounting hole



Add .400 (10.16) to width for each additional fuseholder

Description	AWG Wire	Amp Rtg. (max.)	Digi-Key Part No.	Price Each 1	100	250
Panel Mount Holder	14	20	F1088-ND	1.41	.96	.85
Panel Mount Holder	10	30	F1089-ND	2.05	1.39	1.23

Littelfuse®

ATO Fuseholders

Fig. 1 – Horizontal Mount

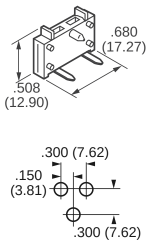
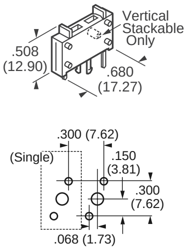


Fig. 2 – Vertical Mount



P.C.B. Footprint (Stacked)

Mini Fuse PC Board Fuseholder Specifications:

- **Terminals:** Copper alloy, tin-plated - **Body:** Black thermoplastic (UL 94V0) **Electrical:** Recognized under the Components Program of Underwriters Laboratory for 15 amperes and Certified by CSA for 10 amperes. Three fuseholders can be mounted side by side (stacked) and operated at rated current. Contact factory for applications where more than three fuseholders will be stacked.
- **Voltage:** 32 Volts DC - **Temperature Range:** -40°C to +85°C - **PC Board Compatibility:** Designed for use with standard .062" (1.57mm) circuit board.

Fig. 3 – Autofuse Fuse Clip

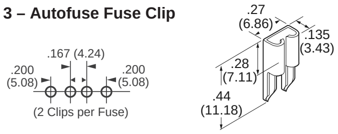
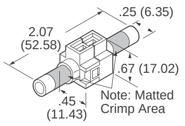


**Fig. 4 – Mini Fuse
Easy-Crimp Fuseholder**



Materials:

- **Body:** Black thermoplastic
- **Terminals:** Tin plated copper alloy
- **Operating Temperature:** -40°C to 105°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
1	Horizontal Mini Holder	F064-ND	1.56	1.47	.88
2	Single or End Cap Mini Holder	F065-ND	1.56	1.47	.88
2	Stackable Mini Holder	F066-ND	1.56	1.47	.88
3	ATO Fuse Clip	F067-ND	.28	.27	.16
4	In-line Mini Holder	F068-ND*	1.40	1.31	.79
4	In-line Mini Holder	F069-ND†	1.40	1.31	.79

* 20A max. rating terminals accept #16-22AWG
† 30A max. rating, terminals accept #10-14AWG

2AG Subminiature Fast-Acting Fuses

1-5 Amps
224 Series

MIL
.125-7 Amps

Pigtail Material:
Tinned copper wire

Approvals: Listed by U.L. and Certified by CSA. Patented.

Dimensions:
- **Cartridge:** .177" (4.50mm) diameter; .57" (14.48mm) length - **Pigtail:** .19" (4.83mm) diameter; .6" (15.24mm) length - **Leads:** .025" (.64mm) diameter; 1.50" (38.10mm) length typ.

Electrical Characteristics:

Rating	Blow Time
110%	4 hr., min.
135%	1 hr., max.
200%	1 sec., max.

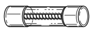
Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
225 Series — Cartridge Type					
.125	250	F640-ND	.63	.47	.42
.250	250	F641-ND	.63	.47	.42
.375	250	F642-ND	.63	.47	.42
.500	250	F643-ND	.44	.33	.29
.750	250	F644-ND	.44	.33	.29
1.000	250	F645-ND	.44	.33	.29
1.500	250	F646-ND	.44	.33	.29
2.000	250	F647-ND	.44	.33	.29
2.500	250	F648-ND	.44	.33	.29
3.000	250	F649-ND	.44	.33	.29
3.500	250	F650-ND	.44	.33	.29
4.000	125	F651-ND	.44	.33	.29
5.000	125	F652-ND	.44	.33	.29
7.000	125	F653-ND	.44	.33	.29

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
224 Series — Pigtail Type					
.125	250	F620-ND	.82	.62	.55
.250	250	F621-ND	.82	.62	.55
.375	250	F622-ND	.82	.62	.55
.500	250	F623-ND	.63	.48	.42
.750	250	F624-ND	.63	.48	.42
1.000	250	F625-ND	.63	.48	.42
1.500	250	F626-ND	.63	.48	.42
2.000	250	F627-ND	.63	.48	.42
2.500	250	F628-ND	.63	.48	.42
3.000	250	F629-ND	.63	.48	.42
3.500	250	F630-ND	.63	.48	.42
4.000	125	F631-ND	.63	.48	.42
5.000	125	F632-ND	.63	.48	.42
7.000	125	F633-ND	.63	.48	.42

2AG Subminiature Slo-Blo® Fuses

MIL

Approvals:
Listed by U.L. and Certified by CSA through 3.5 amperes. Recognized under the Components Program of U.L. from 4 through 7 amperes. 229 Series 4 and 5 Ampere, 230 series 1 through 5 Amperes approved by METI. **Patents:** U.S. Patents #4,409,729 and #4,445,106.



Pigtail Material:
Tinned copper wire

Electrical Characteristics:

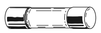
Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	3 sec., min./ 20 sec., max.

Dimensions:
- **Cartridge:** .177" (4.50mm) diameter; .57" (14.48mm) length - **Pigtail:** .19" (4.83mm) diameter; .60" (15.24mm) length - **Leads:** .025" (.64mm) diameter; 1.50" (38.10mm) length type

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
229 Series — Cartridge Type					
.250	250	F660-ND	.52	.39	.35
.375	250	F661-ND	.52	.39	.35
.500	250	F662-ND	.52	.39	.35
.750	250	F663-ND	.52	.39	.35
1.000	250	F664-ND	.52	.39	.35
1.500	250	F665-ND	.52	.39	.35
2.000	250	F666-ND	.52	.39	.35
2.500	250	F667-ND	.52	.39	.35
3.000	250	F668-ND	.52	.39	.35
3.500	250	F669-ND	.52	.39	.35
4.000	125	F670-ND	.52	.39	.35
5.000	125	F671-ND	.52	.39	.35
7.000	125	F672-ND	.52	.39	.35
230 Series — Pigtail Type					
.250	250	F680-ND	.72	.54	.48
.375	250	F681-ND	.72	.54	.48
.500	250	F682-ND	.72	.54	.48
.750	250	F683-ND	.72	.54	.48
1.000	250	F684-ND	.72	.54	.48
1.500	250	F685-ND	.72	.54	.48
2.000	250	F686-ND	.72	.54	.48
2.500	250	F687-ND	.72	.54	.48
3.000	250	F688-ND	.72	.54	.48
3.500	250	F689-ND	.72	.54	.48
4.000	125	F690-ND	.72	.54	.48
5.000	125	F691-ND	.72	.54	.48
7.000	125	F692-ND	.72	.54	.48

3AB Ceramic Body Fast-Acting Fuses

QPL



Dimensions: Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm).
Approvals: Listed by UL and Certified by CSA through 15 amperesat 250 VAC/125 VDC. Recognized under the Components Program of U.L. from 20-30A, certified by CSA at 20A and approved by METI from 10-30 Amperes.

Electrical Characteristics:

Rating	Amperage	Blow Time
110%	1/8 — 30	4 hrs., min.
135%	1/8 — 30	1 hr., max.
200%	1/8 — 12	15 sec., max.
200%	15 — 30	360 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
314 Series — Cartridge Type					
.125	250	F150-ND	1.07	.81	.72
.250	250	F151-ND	.75	.56	.50
.500	250	F153-ND	.75	.56	.50
1.000	250	F155-ND	.70	.52	.47
2.000	250	F156-ND	.70	.52	.47
3.000	250	F157-ND	.70	.52	.47
4.000	250	F158-ND	.70	.52	.47
5.000	250	F159-ND	.66	.50	.44
6.000	250	F160-ND	.66	.50	.44
7.000	250	F161-ND	.66	.50	.44
8.000	250	F162-ND	.66	.50	.44
10.000	250	F163-ND	.66	.50	.44
12.000	250	F164-ND	.66	.50	.44
15.000	250	F165-ND	.66	.50	.44
20.000	250	F166-ND	.98	.74	.66
25.000	125	F167-ND	.98	.74	.66
30.000	125	F168-ND	.98	.74	.66

3AB Ceramic Body Slo-Blo® Fuses

QPL

Dimensions: Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm)

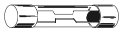
Patents: U.S. Patents #4,409,729 and #4,445,106
Approvals: Certified by CSA from 1/4-30 Amperes. Recognized under the component program of Underwriters Laboratories for 12-30A.

Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	5 sec., min.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
326 Series — Cartridge Type					
.0312	250	F451-ND	2.57	1.93	1.71
.100	250	F453-ND	1.75	1.31	1.17
.125	250	F454-ND	1.75	1.31	1.17
.250	250	F459-ND	1.67	1.25	1.11
.375	250	F461-ND	1.67	1.25	1.11
.500	250	F463-ND	1.67	1.25	1.11
.750	250	F466-ND	1.67	1.25	1.11
1.000	250	F468-ND	1.67	1.25	1.11
1.500	250	F471-ND	1.67	1.25	1.11
2.000	250	F473-ND	1.67	1.25	1.11
2.500	250	F474-ND	1.17	.88	.78
3.000	250	F476-ND	1.17	.88	.78
4.000	250	F478-ND	1.17	.88	.78
5.000	250	F479-ND	1.17	.88	.78
6.250	250	F480-ND	1.17	.88	.78
7.000	250	F481-ND	1.17	.88	.78
8.000	250	F482-ND	1.17	.88	.78
10.000	250	F483-ND	1.17	.88	.78
12.000	250	F484-ND	1.17	.88	.78
15.000	250	F485-ND	1.17	.88	.78
20.000	250	F486-ND	1.17	.88	.78
25.000	125	F487-ND	1.17	.88	.78
30.000	125	F488-ND	1.17	.88	.78

3AG Low Voltage Normal-Blow Fuses



Dimensions: Dia.: 1/4" (6.35mm); Length: 1-1/4" (31.75mm)
Approvals: Listed by UL and Certified by CSA through 30 amperes
Design Standards: UL Standard 275.

Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	10 sec., max.

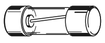
Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
311 Series — Normal-Blow Type					
12.000	32	F140-ND	.28	.21	.18
15.000	32	F141-ND	.28	.21	.18
25.000	32	F142-ND	.28	.21	.18
30.000	32	F143-ND	.28	.21	.18
35.000	32	F144-ND	.28	.21	.18

3AG Glass Body Fast-Acting Fuses

QPL

Approvals: Listed by UL and Certified by CSA through 30 Amperes. 1/100-10 Amperes listed to UL 248-14 (UL 198-G) 12-30 Amperes listed to UL 275.

Dimensions: 312 Series: Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm). **318 Series:** Diameter: .275" (6.99mm); Length: 1.275" (32.39mm); Pigtail Diameter: .032" (.81mm); Pigtail Length: 1.50" (38.10mm); Pigtail Material: Solder-coated copper.



Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	5 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
312 Series — Cartridge Type					
.010	250	F100-ND	6.61	4.96	4.41
.031	250	F101-ND	6.61	4.96	4.41
.062	250	F102-ND	.97	.73	.65
.100	250	F103-ND	.97	.73	.65
.125	250	F104-ND	.97	.73	.65
.150	250	F105-ND	.97	.73	.65
.175	250	F106-ND	.97	.73	.65
.200	250	F108-ND	.97	.73	.65
.250	250	F109-ND	.60	.45	.40
.300	250	F110-ND	.60	.45	.40
.375	250	F111-ND	.60	.45	.40
.500	250	F112-ND	.42	.32	.28
.600	250	F113-ND	.42	.32	.28
.750	250	F114-ND	.42	.32	.28
1.000	250	F115-ND	.26	.20	.18
1.250	250	F116-ND	.26	.20	.18
1.500	250	F117-ND	.26	.20	.18
1.600	250	F118-ND	.26	.20	.18
2.000	250	F119-ND	.26	.20	.18
2.500	250	F120-ND	.26	.20	.18
3.000	250	F121-ND	.26	.20	.18
4.000	250	F122-ND	.41	.31	.28
5.000	250	F123-ND	.41	.31	.28
6.000	250	F124-ND	.41	.31	.28
7.000	250	F125-ND	.41	.31	.28
8.000	250	F126-ND	.56	.42	.37
10.000	250	F127-ND	.56	.42	.37

(Continued)

Littelfuse®

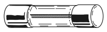
3AG Glass Body Fast-Acting Fuses *(Cont.)*

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
318 Series — Pigtail Type					
.125	250	F208-ND	1.34	1.00	.89
.250	250	F209-ND	.82	.62	.55
.500	250	F212-ND	.82	.62	.55
1.000	250	F215-ND	.59	.45	.40
1.500	250	F217-ND	.59	.45	.40
2.000	250	F219-ND	.59	.45	.40
3.000	250	F221-ND	.59	.45	.40
4.000	250	F222-ND	.64	.47	.42
5.000	250	F223-ND	.64	.47	.42
6.000	250	F224-ND	.64	.47	.42
8.000	250	F226-ND	.64	.47	.42

3AG Glass Body Slo-Blo® Fuses

QPL

1-5 Amps
313 Series



Patents:

U.S. Patents #4,409,729 and #4,445,106.

Approvals:
Listed by Underwriters Laboratories and Certified by CSA through 8 amperes. Recognized under the Components Program of UL from 10 through 30 amperes. 313 000 Series approved by METI from 1-5 amperes.

Electrical Characteristics:

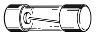
Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	5 sec., min.

Dimensions:
313 Series: Dia.: 1/4” (6.35mm), Length: 1-1/4” (31.75mm).
315 Series: Dia.: .275” (6.99mm), Length: 1.275” (32.39mm); Pigtail Dia.: .032” (.81mm), 1/100A–15A; .040” (1.02mm), 20A–30A; Pigtail Length: 1.50” (38.10mm); Pigtail Material: Solder-coated copper.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
313 Series — Cartridge Type					
.010	250	F300-ND	2.14	1.61	1.43
.031	250	F301-ND	2.14	1.61	1.43
.040	250	F302-ND	2.14	1.61	1.43
.062	250	F303-ND	1.55	1.16	1.03
.100	250	F304-ND	1.55	1.16	1.03
.125	250	F305-ND	1.55	1.16	1.03
.150	250	F306-ND	1.55	1.16	1.03
.175	250	F307-ND	1.55	1.16	1.03
.187	250	F308-ND	1.55	1.16	1.03
.200	250	F309-ND	1.55	1.16	1.03
.250	250	F310-ND	.94	.70	.63
.300	250	F311-ND	.94	.70	.63
.375	250	F312-ND	.94	.70	.63
.400	250	F313-ND	.94	.70	.63
.500	250	F314-ND	.90	.67	.60
.600	250	F315-ND	.90	.67	.60
.700	250	F316-ND	.90	.67	.60
.750	250	F317-ND	.90	.67	.60
.800	250	F318-ND	.90	.67	.60
1.000	250	F319-ND	.90	.67	.60
1.200	250	F320-ND	.68	.51	.46
1.250	250	F321-ND	.68	.51	.46
1.500	250	F322-ND	.68	.51	.46
1.600	250	F323-ND	.68	.51	.46
2.000	250	F325-ND	.68	.51	.46
2.250	250	F326-ND	.68	.51	.46
2.500	250	F327-ND	.68	.51	.46
2.800	250	F328-ND	.68	.51	.46
3.000	250	F329-ND	.68	.51	.46
3.200	250	F330-ND	.68	.51	.46
4.000	250	F331-ND	.68	.51	.46
5.000	250	F332-ND	.68	.51	.46
6.250	250	F333-ND	.68	.51	.46
7.000	250	F334-ND	.68	.51	.46
8.000	250	F335-ND	.68	.51	.46
10.000	32	F336-ND	1.00	.75	.67
12.000	32	F337-ND	1.00	.75	.67
15.000	32	F338-ND	1.00	.75	.67
20.000	32	F339-ND	1.00	.75	.67
25.000	32	F340-ND	1.00	.75	.67
30.000	32	F341-ND	1.00	.75	.67
315 Series — Pigtail Type					
1.000	250	F419-ND	1.11	.83	.74
1.500	250	F422-ND	1.11	.83	.74
2.000	250	F425-ND	1.11	.83	.74
3.000	250	F429-ND	1.11	.83	.74
4.000	250	F431-ND	1.16	.87	.78
5.000	250	F432-ND	1.16	.87	.78
7.000	250	F434-ND	1.16	.87	.78

8AG Fast-Acting Instrument Fuses

QPL

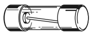

0.25 x 1.00
(6.35 x 25.4)

Electrical Characteristics:

Rating	Blow Time
100%	4 hrs., min.
200%	5 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
361 Series — Fast-Acting Type					
.062	250	F504-ND	1.64	1.23	1.10
.125	250	F505-ND	1.17	.88	.78
.250	250	F506-ND	.72	.54	.48
.375	250	F507-ND	.72	.54	.48
.500	250	F508-ND	.72	.54	.48
.750	250	F509-ND	.72	.54	.48
1.000	250	F510-ND	.43	.32	.29
2.000	250	F512-ND	.43	.32	.29
3.000	125	F513-ND	.44	.33	.29
4.000	125	F514-ND	.44	.33	.29

8AG Normal-Blow Fuses


0.25 x 1.00
(6.35 x 25.4)

Approvals:

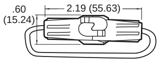
Listed by UL through 6 amperes. Certified by CSA from 0.25 through 5 amperes. Sold in multiples of 5.

Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	10 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
362 Series — Normal-Blow Type					
.125	250	F600-ND	1.06	.80	.71
.250	250	F601-ND	.66	.49	.44
.500	250	F602-ND	.66	.49	.44
1.000	250	F603-ND	.42	.31	.28
1.500	250	F604-ND	.42	.31	.28
2.000	250	F605-ND	.42	.31	.28
2.500	125	F606-ND	.42	.31	.28
3.000	125	F607-ND	.42	.31	.28
5.000	125	F608-ND	.28	.21	.19
6.000	125	F609-ND	.28	.21	.19
8.000	32	F610-ND	.28	.21	.19
10.000	32	F611-ND	.28	.21	.19
15.000	32	F612-ND	.28	.21	.19
20.000	32	F613-ND	.28	.21	.19

Universal In-Line Fuseholder



Supplied with 8” (20.32cm) loop of #14 AWG red vinyl insulated wire and two springs.
Electrical: Intended for use at 32 volts or less with fuses rated up to 20 amperes when the proper spring is installed for fuse size. **Molded Parts:** Black thermoplastic (UL 94V2). Body halves have a .14” (3.56mm) diameter hole for insulated wire. **Ambient Temperature:** -40° to +75°C.

F062-ND (Littelfuse #155100) **$1.95/1; $17.33/10; $141.75/100**

3AG Fuse Clips

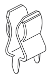
Fig. 1


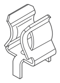
Fig. 2


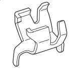
Fig. 3


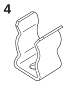
Fig. 4


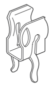
Fig. 5 – 5x20 & 2AG Fuse Clip


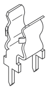
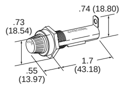
Fig. 6 – 5x20 Fuse Clip


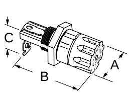
Fig.	Digi-Key Part No.	Price Each 10	100	250	Mfg. Part No.
4	F038-ND†	.16	.12	.11	101002
1	F040-ND	.13	.10	.09	102071
1	F041-ND†	.18	.13	.12	102074
2	F042-ND†	.22	.16	.15	102078
1	F046-ND*	.48	.36	.32	122083
3	F048-ND*	.44	.33	.29	122090
2	F052-ND	.22	.16	.15	102079
5	F058-ND	.18	.13	.12	111501
6	F063-ND	.22	.14	.12	100056

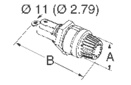
* Beryllium Copper 30 amp rating (all others are spring brass 15 amp rating).
† Fuse clip without fuse stops.

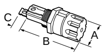
3AG and 5x20mm Panel Fuseholders

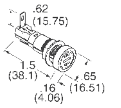
UL Recognized and Certified by CSA

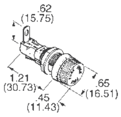
F002


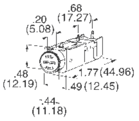
***F003, *F004, †F007, *F012**


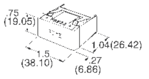
†F005, *F006


***F009, *F013, †F015**


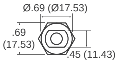
F053


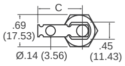
F054


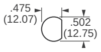
F055, F056


F059


***** Fluted Knob **†** Knurled Knob

End View Straight Terminals


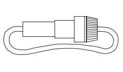
End View Right Angle Terminals


Mounting Hole for Straight & Right Angle


Digi-Key Part No.	Dimensions - Inch (mm) A	B	C
F003-ND	.69 (17.53)	1.70 (43.18)	.63 (16.00)
F004-ND	.69 (17.53)	1.70 (43.18)	.63 (16.00)
F005-ND	.69 (17.53)	2.09 (53.09)	—
F006-ND	.69 (17.53)	2.01 (51.05)	—
F007-ND	.69 (17.53)	1.78 (45.21)	.63 (16.00)
F009-ND	.69 (17.53)	1.70 (43.18)	.30 (7.62)
F012-ND	.69 (17.53)	1.70 (43.18)	.59 (14.99)
F013-ND	.69 (17.53)	1.70 (43.18)	.40 (10.16)
F015-ND	.69 (17.53)	1.78 (45.21)	.40 (10.16)

Description	Digi-Key Part No.	Price Each	Littelfuse Part No.
3AG, Panel Mounting, Finger Grip	F002-ND	6.21	342001
3AG, Drip Prf. Right Angle, Solder	F003-ND	2.78	342004PL
3AG, Rt. Angle Term., Solder	F004-ND	2.63	342004L
3AG, Straight Term., Solder	F005-ND	2.45	342012
3AG, Straight Term., Solder	F006-ND	2.45	342014
3AG, Rt. Angle Term., Solder	F007-ND	2.57	342022
3AG, 3/16” (4.76mm) Q-Conn. Straight Term	F009-ND	2.75	342038
3AG, 1/4” (6.35mm) Q-Conn. Rt. Angle Term	F012-ND	2.88	342828
3AG, 1/4” (6.35mm) Q-Conn. Straight Term	F013-ND	3.02	342838
3AG, 1/4” (6.35mm) Q-Conn. Straight Term	F015-ND	3.02	342858
5x20mm Low-Profile Front Mount Holder	F053-ND	3.82	345621
5x20mm High-Profile Front Mount Holder	F054-ND	3.82	345623
1/4” x 1-1/4” (6.35mm x 31.75mm) P.C. Board Type Holder	F055-ND	2.65	345101
5x20mm P.C. Board Type Holder	F056-ND	3.43	345121
3AG Flip-Top, Shock Safe Panel Mt. Holder	F059-ND	3.40	346877

In-Line Fuseholder



Supplied with a 15-inch (38.10cm) loop of 14-gauge vinyl covered wire and three springs in different lengths to adapt the holder to SFE 7-1/2, 9, 14, 20 amp & 3AG fuses.

F049-ND (Littelfuse #150145) **$2.74/1; $25.32/10; $189.90/100**

COOPER Bussmann

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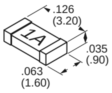
SMT Chip Fuse - 3216FF (1206)



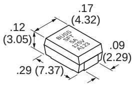
Characteristics: • Fast acting **TIme Current:** • Will carry 100% of rated current for a min. of 4 hours, and will open within 5 seconds at 250% of rated current (250mA-3A). • The 4-5A fuses will open within 1 second at 350% of rated current. **Construction Material:** • Body: Ceramic substrate encapsulated with glass • Leads: Over-plated with nickel and tin-lead **Agency Approvals:** UL Recognized (All Ratings), CSA Certified (1.5-3A), and CSA Component Acceptance (250-750mA, 1A, 4-5A)

Current Rating	Rated Volt. AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 3,000
.250	32/63	283-2440-1-ND	.82	.77	.58	317.25/M
.500	32/63	283-2442-1-ND	.82	.77	.58	317.25/M
.750	32/63	283-2443-1-ND	.82	.77	.58	317.25/M
1	32/63	283-2444-1-ND	.82	.77	.58	317.25/M
1.25	32/63	283-2445-1-ND	.82	.77	.58	317.25/M
1.5	32/63	283-2446-1-ND	.82	.77	.58	317.25/M
2	32/63	283-2447-1-ND	.82	.77	.58	317.25/M
2.5	32/63	283-2448-1-ND	.82	.77	.58	317.25/M
3	32/63	283-2449-1-ND	.82	.77	.58	317.25/M
4	32/32	283-2450-1-ND	.82	.77	.58	317.25/M
4.5	32/32	283-2451-1-ND	.82	.77	.58	317.25/M
5	32/32	283-2452-1-ND	.82	.77	.58	317.25/M

* For Tape & Reel part number change "1-ND" to "2-ND".

* ***BIF document: #3001***

SMD TRON® Surface Mount Fuses - SFT



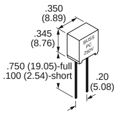
Characteristics: • Fast-Acting • Current-Limiting. **TIme Current:** Rated current values 0-10 amps carry 100% of rating for 4 hrs. min.; open at 250% of rating in 5 seconds max. **Construction Material:** Solid Matrix • Body: Thermoplastic, with a rating of 94V-O • Leads: Base-Copper, Barrier-Nickel (50-100 micro inches), Finish: Electroplated tin (400-500 micro inches with a 2-10% lead content). **Agency Approvals:** UL Recognized (250mA-10A), and CSA Component Acceptance (250mA-10A).

Current Rating	Rated Volt. AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500
250mA	125/125	283-2426-1-ND	1.53	1.42	1.08	349.60
500mA	125/125	283-2428-1-ND	1.53	1.42	1.08	349.60
1	125/125	283-2430-1-ND	1.53	1.42	1.08	349.60
1.5	125/125	283-2431-1-ND	1.53	1.42	1.08	349.60
2	125/125	283-2432-1-ND	1.53	1.42	1.08	349.60
2.5	125/125	283-2433-1-ND	1.53	1.42	1.08	349.60
3	125/125	283-2434-1-ND	1.53	1.42	1.08	349.60
4	125/125	283-2436-1-ND	1.53	1.42	1.08	349.60
5	125/125	283-2437-1-ND	1.53	1.42	1.08	349.60
7	60/90	283-2438-1-ND	1.53	1.42	1.08	349.60
10A	60/90	283-2439-1-ND	1.53	1.42	1.08	349.60

* For Tape & Reel part number change "1-ND" to "2-ND".

* ***BIF document: #2005***

PC-TRON® Subminiature Fuses

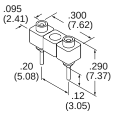


Characteristics: Offers short-circuit performance which until now could only be found in much larger size glass tube fuses. At 250 VAC, the 1/2 to 3 amp PC-Tron can safely interrupt 50 amperes; at 125 VAC the 1/2 to 5 amp versions can interrupt 10,000 amperes. This makes the PC-Tron subminiature fuse ideal for line-side protection of power supplies. **Time Current:** • Carry 100% of rating for 4 hrs. min.; open at 200% of rating in 10 sec. max. **Construction Material:** • Body: High temperature plastic • Leads: Tin-plated copper **Agency Approvals:** UL Recognized and CSA Certified

Current Rating	Rated Voltage AC/DC	Digi-Key Part No.	Price Each 1	10	100
PCB Series - Full Lead Length					
1/2A	250/450	283-2111-ND	1.73	1.44	1.30
3/4A	250/450	283-2112-ND	1.73	1.44	1.30
1A	250/450	283-2113-ND	1.73	1.44	1.30
1-1/2A	250/450	283-2114-ND	1.73	1.44	1.30
2A	250/450	283-2115-ND	1.73	1.44	1.30
2-1/2A	250/450	283-2116-ND	1.73	1.44	1.30
3A	250/350	283-2117-ND	1.73	1.44	1.30
PCC Series - Short Lead Length					
1/2A	250/450	283-2118-ND	1.73	1.44	1.30
3/4A	250/450	283-2119-ND	1.73	1.44	1.30
1A	250/450	283-2120-ND	1.73	1.44	1.30
1-1/2A	250/450	283-2121-ND	1.73	1.44	1.30
2A	250/450	283-2122-ND	1.73	1.44	1.30
2-1/2A	250/450	283-2123-ND	1.73	1.44	1.30
3A	250/350	283-2124-ND	1.73	1.44	1.30
PCE Series - Short Lead Length					
5A	125/250	283-2126-ND	1.73	1.44	1.30

* ***BIF document: #2034***

PC-Tron® PCB Mount Fuseholder

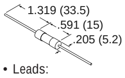


Digi-Key Part No.	Price Each 1	10	100
283-2356-ND	.65	.55	.49

* ***BIF document: #2034***

Fast-Acting and Time-Delay Glass Fuses – C518, C515 Series

.205" x .591" (5mm x 15mm)



Construction Material:
• Endcaps: Silver-plated brass • Leads: Tin-plated copper • Tube: Glass.

Agency Approvals:

C518: UL Listed (125mA-4A), CSA Component Acceptance (125mA-4A)

C520: UL Listed (125mA-5A), CSA Component Acceptance (125mA-5A)

C515 and C519: UL Listed (250mA-3A), CSA Certification (250mA-3A), UL Recognized (3.5A-7A), Telecommunication Capabilities: UL1459 and UL497.

Limits for Pre-arcing Time/UL Listed Fuses.

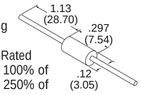
Amp Rating	135% Max.	110% Min.	200% Min.	200% Max.
C518 and C520 Series				
125mA - 7A	1 hr.	4 hr.	—	2 sec.
C515 and C519 Series				
250mA - 7A	60 min.	—	3 sec.	2 min.

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
C518 Series (Axial)					
125mA	250	283-2360-ND	.98	.73	.65
250mA	250	283-2361-ND	.98	.73	.65
375mA	250	283-2362-ND	.98	.73	.65
500mA	250	283-2363-ND	.98	.73	.65
750mA	250	283-2364-ND	.98	.73	.65
2A	250	283-2365-ND	.75	.56	.50
2.5A	250	283-2366-ND	.75	.56	.50
3A	250	283-2367-ND	.75	.56	.50
3.5A	250	283-2368-ND	.75	.56	.50
4A	250	283-2369-ND	.75	.56	.50
5A	250	283-2370-ND	.75	.56	.50
C520 Series (No Leads)					
125mA	250	283-2371-ND	.75	.57	.50
250mA	250	283-2372-ND	.74	.56	.50
500mA	250	283-2374-ND	.51	.39	.34
750mA	250	283-2375-ND	.51	.39	.34
2.5A	250	283-2377-ND	.51	.39	.34
3A	250	283-2378-ND	.51	.39	.34
3.5A	250	283-2379-ND	.51	.39	.34
4A	250	283-2380-ND	.51	.39	.34
5A	250	283-2381-ND	.51	.39	.34
C515 Series (Axial)					
250mA	250	283-2239-ND	.81	.61	.54
375mA	250	283-2240-ND	.81	.61	.54
500mA	250	283-2241-ND	.81	.61	.54
750mA	250	283-2242-ND	.81	.61	.54
1A	250	283-2243-ND	.81	.61	.54
3.5A	125	283-2244-ND	.81	.61	.54
4A	125	283-2245-ND	.81	.61	.54
7A	125	283-2246-ND	.81	.61	.54
C519 Series (No Leads)					
250mA	250	283-2247-ND	.59	.44	.39
500mA	250	283-2249-ND	.59	.44	.39
750mA	250	283-2250-ND	.59	.44	.39
1A	250	283-2251-ND	.59	.44	.39
1.5A	250	283-2252-ND	.59	.44	.39
2A	250	283-2253-ND	.59	.44	.39
3A	250	283-2254-ND	.59	.44	.39
4A	125	283-2256-ND	.59	.44	.39
5A	125	283-2257-ND	.59	.44	.39
7A	125	283-2258-ND	.59	.44	.39

* ***BIF document: #2026 (C519 Series),***
#2027 (C520 Series),
#2006 (C515 Series),
#2007 (C519 Series)

MCR Microtron® Fuses

(Printed Circuit Board)



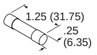
Characteristics: • Fast-Acting • Current-Limiting.
Time Current Characteristics: Rated current values 0-10 amps carry 100% of rating for 4 hours min.; open at 250% of rating in 5 seconds maximum.
Construction Material: • Body: High temperature thermoplastic, flammability rating UL 94V-O • Element: Solid Matrix, gold or silver element encapsulated in ceramic • Leads: Tin-plated copper, .64mm (.025") diameter.
Agency Approvals: UL Recognized (1/16-10A), CSA Component Acceptance (1/16-10A) and Japanese Industrial Standard (1-5A).

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
1/16	125/125	283-2068-ND	1.25	.94	.83
1/8	125/125	283-2069-ND	1.12	.84	.75
1/4	125/125	283-2070-ND	1.12	.84	.75
1/2	125/125	283-2072-ND	1.12	.84	.75
3/4	125/125	283-2073-ND	.87	.66	.58
1	125/125	283-2074-ND	.87	.66	.58
1-1/2	125/125	283-2075-ND	.87	.66	.58
2	125/125	283-2076-ND	.87	.66	.58
3	125/125	283-2078-ND	.87	.66	.58
4	125/125	283-2080-ND	.87	.66	.58
5	125/125	283-2081-ND	.87	.66	.58
7	60/90	283-2082-ND	.87	.66	.58
10	60/90	283-2083-ND	.87	.66	.58

* ***BIF document: #2003***

AGC Fast-Acting and MDL Time-Delay Glass Fuses

1/4" x 1-1/4" (6.35mm x 31.75mm)



Time Current Characteristics: Rated current values 0-30 amps carry 110% of rating for 4 hrs. min.; open at 135% of rating in 60 min. max. or 200% of rating in 120 sec. max.

Construction Material: • Tube: Glass • Endcaps: Albaloy plated brass

Agency Approvals:

AGC Fast-Acting: UL Recognized (15-30A), UL Listed (1/4-10A) and CSA Component Acceptance (1/4-30A)

MDL Time-Delay: UL Listed (1/4-8A), UL Recognized (9-30A), and CSA Component Acceptance (1/4-8A)

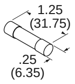
Current Rating	Rated Voltage AC/DC†	Digi-Key Part No.	Price Each 5	100	250
AGC Fast-Acting					
1/4	250/250	283-2009-ND	.64	.48	.43
3/10	250/250	283-2010-ND	.64	.48	.43
3/8	250/250	283-2011-ND	.64	.48	.43
1/2	250/250	283-2012-ND	.45	.34	.30
3/4	250/250	283-2014-ND	.45	.34	.30
1	250/250	283-2015-ND	.28	.21	.19
1-1 /4	250/250	283-2016-ND	.28	.21	.19
1-1/2	250/250	283-2017-ND	.28	.21	.19
2	250/250	283-2020-ND	.28	.21	.19
2-1/2	250/250	283-2021-ND	.28	.21	.19
3	250/250	283-2022-ND	.28	.21	.19
4	250/250	283-2023-ND	.44	.33	.29
5	250/250	283-2024-ND	.44	.33	.29
6	250/250	283-2025-ND	.44	.33	.29
7	250/250	283-2026-ND	.44	.33	.29
8	250/250	283-2027-ND	.48	.36	.32
10	250/250	283-2028-ND	.48	.36	.32
15	32/—	283-2029-ND	.31	.23	.21
20	32/—	283-2030-ND	.31	.23	.21
30	32/—	283-2031-ND	.31	.23	.21
MDL Time-Delay					
1/4	250/250	283-2167-ND	.99	.75	.66
3/10	250/250	283-2168-ND	.99	.75	.66
3/8	250/250	283-2169-ND	.99	.75	.66
1/2	250/250	283-2171-ND	.95	.71	.63
3/4	250/250	283-2174-ND	.95	.71	.63
1	250/250	283-2176-ND	.95	.71	.63
1-1/4	250/250	283-2178-ND	.72	.54	.48
1-1/2	250/250	283-2179-ND	.72	.54	.48
2	250/250	283-2182-ND	.72	.54	.48
2-1/2	250/250	283-2184-ND	.72	.54	.48
3	250/250	283-2186-ND	.72	.54	.48
3-1/2	250/250	283-2188-ND	.72	.54	.48
4	250/32	283-2189-ND	.72	.54	.48
5	250/32	283-2190-ND	.72	.54	.48
6-1/4	250/32	283-2191-ND	.72	.54	.48
7	250/32	283-2192-ND	.72	.54	.48
8	250/250	283-2193-ND	.72	.54	.48
10	32/32	283-2194-ND	1.06	.80	.71
12	32/32	283-2195-ND	1.06	.80	.71
15	32/32	283-2196-ND	1.06	.80	.71
20	32/32	283-2197-ND	1.06	.80	.71
25	32/32	283-2198-ND	1.06	.80	.71
30	32/32	283-2199-ND	1.06	.80	.71

† 1-10A, UL Rec. for 125 VDC and 500 A/C. Other DC ratings are self-certified.

* ***BIF document: #2001*** **(AGC eries),*****#2004*** **(MDL Series)**

ABC Fast-Acting and MDA Time-Delay Ceramic Fuses

1/4" x 1-1/4" (6.35mm x 31.75mm)



TIme Current Characteristics: Rated current values 0-30 amps carry 110% of rating for 4 hrs. min.; open at 135% of rating in 60 min. max. or 200% of rating in 120 sec. max. **Construction Material:** Ceramic • Endcaps: Albaloy plated brass

Agency Approvals:

ABC Fast-Acting: UL Listed (1/2-15A), UL Recognized (20A), and CSA Certification (1/2-15A)

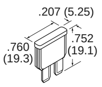
MDL Time-Delay: UL Listed (1/12-20A), CSA Certified (1/2-15A)

Current Rating	Rated Voltage AC/DC†	Digi-Key Part No.	Price Each 5	100	250
ABC Fast-Acting					
1/2	250/250	283-2095-ND	1.74	1.30	1.16
3/4	250/250	283-2096-ND	.79	.59	.53
1	250/250	283-2097-ND	.74	.56	.49
2	250/—	283-2098-ND	.74	.56	.49
3	250/—	283-2099-ND	.74	.56	.49
4	250/250	283-2100-ND	.74	.56	.49
5	250/250	283-2101-ND	.70	.53	.47
6	250/—	283-2102-ND	.70	.53	.47
8	250/—	283-2104-ND	.70	.53	.47
10	250/250	283-2105-ND	.70	.53	.47
12	250/—	283-2106-ND	.70	.53	.47
15	250/250	283-2107-ND	.70	.53	.47
20	250/—	283-2108-ND	1.05	.79	.70
30	125/—	283-2110-ND	1.05	.79	.70
MDA Time Delay					
1/2	250/250	283-2289-ND	1.78	1.33	1.18
1	250/250	283-2293-ND	1.78	1.33	1.18
2	250/—	283-2297-ND	1.78	1.33	1.18
3	250/250	283-2300-ND	1.24	.93	.83
4	250/—	283-2302-ND	1.24	.93	.83
5	250/—	283-2303-ND	1.24	.93	.83
6	250/—	283-2304-ND	1.24	.93	.83
8	250/—	283-2307-ND	1.24	.93	.83
10	250/250	283-2308-ND	1.24	.93	.83
12	250/—	283-2309-ND	1.24	.93	.83
15	250/250	283-2310-ND	1.24	.93	.83
20	250/—	283-2311-ND	1.24	.93	.83
30	250/—	283-2313-ND	1.24	.93	.83

† DC ratings are self-certified.

* ***BIF document: #2000*** **(ABC Fast-Acting Series),**
#2002 **(MDA Time-Delay Series)**

ATC® Blade-Type Automotive Fuses



Rated Voltage: 32 VDC
Characteristics: Fast-Acting
Agency Approvals: UL Recognized (3-30A)

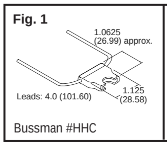
Current Rating	Color Code	Digi-Key Part No.	Price Each 5	100	250
3	Violet	283-2314-ND	.40	.36	.32
4	Pink	283-2315-ND	.40	.36	.32
5	Tan	283-2316-ND	.40	.36	.32
7-1/2	Brown	283-2317-ND	.40	.36	.32
10	Red	283-2318-ND	.40	.36	.32
15	Blue	283-2319-ND	.40	.36	.32
20	Yellow	283-2320-ND	.40	.36	.32
25	Clear	283-2321-ND	.40	.36	.32
30	Green	283-2322-ND	.40	.36	.32

* ***BIF document: #2009***

ATC® Blade Type Holders

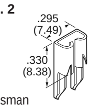
Rated Current: 3-20 Amps.
Rated Voltage: 32V DC, 16AWG wire 4" (101.60mm) length

Fig. 1



Bussman #HHC

Fig. 2



Bussman #1A5600

Fig. No.	Description	Digi-Key Part No.	Price Each 1	10	100
1	In-Line for ATC	283-2357-ND	2.72	2.41	1.84
2	Fuse Clip ATC Brass with Tin Plate	283-2336-ND	.46	.40	.30

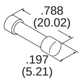
* ***BIF document: #2107*** **(for 283-2357-ND),**
#2131 **(for 283-2336-ND).**

COOPER Bussmann

Metric Ferrule Fuses

(5mm x 20mm) .205" x .787"

GDA (S501†) - Fast Acting, High Breaking Capacity
GDB (S500§) - Fast Acting, Low Breaking Capacity
GDC (S506‡) - Time-Delay, Low Breaking Capacity



Construction Material: • Tube: Ceramic (GDA Series), Glass (GDB and GDC Series) • End Caps: Nickel or silver-plated brass. **Agency Approvals: GDA Series:** VDE (4 & 6.3A), Semko (400mA-6.3A), IMQ (2-6.3A) and UL Recognized (400mA-6.3A). **GDB and GDC Series:** BSI (100mA-6.3A), VDE (100mA-6.3A), Semko (100mA-400mA, 800mA-6.3A), IMQ (100mA-6.3A) and UL Recognized (100mA-6.3A)

Limits for Pre-arcing Time/UL Listed Fuses.

Amp Rating	150% Min.	210% Max.	275% Min–Max.	400% Min–Max.	1000% Max.
*GDA Series**					
100mA - 3.15A	60 min.	30 min.	10ms.- 2 sec.	3 ms.- 300 ms.	20 ms.
4A - 6.3A	60 min.	30 min.	10ms.- 3sec.	3 ms.- 300 ms.	20 ms.
*GDB Series**					
100mA	60 min.	30 min.	10ms.- 500ms.	3ms.- 100ms.	20 ms.
125mA - 6.3A	60 min.	30 min.	50ms.- 2sec.	10ms.- 300ms.	20 ms.
8A - 10A	60 min.	30 min.	—	—	40 ms.
*GDC Series**					
100mA	60 min.	2 min.	200ms.- 10sec.	40ms.- 3sec.	10ms.- 300ms.
125mA - 6.3A	60 min.	2 min.	600ms.- 10sec.	150ms.- 3sec.	20ms.- 300ms.

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
GDA (S501†) - Fast-Acting, High Breaking					
100mA	250	283-2384-ND	1.35	1.02	.90
160mA	250	283-2386-ND	1.35	1.02	.90
400mA	250	283-2388-ND	1.35	1.02	.90
630mA	250	283-2390-ND	1.12	.84	.75
800mA	250	283-2391-ND	1.12	.84	.75
1A	250	283-2392-ND	1.12	.84	.75
1.6A	250	283-2394-ND	1.12	.84	.75
2A	250	283-2395-ND	1.12	.84	.75
2.5A	250	283-2396-ND	1.12	.84	.75
3.15A	250	283-2397-ND	1.12	.84	.75
4A	250	283-2398-ND	1.12	.84	.75
5A	250	283-2399-ND	1.12	.84	.75
6.3A	250	283-2400-ND	1.12	.84	.75
GDB (S500§) - Fast-Acting, Low Breaking					
100mA	250	283-2405-ND	1.35	1.02	.90
125mA	250	283-2406-ND	1.35	1.02	.90
160mA	250	283-2407-ND	.77	.58	.51
250mA	250	283-2409-ND	.77	.58	.51
315mA	250	283-2410-ND	.77	.58	.51
500mA	250	283-2412-ND	.24	.18	.16
630mA	250	283-2413-ND	.24	.18	.16
800mA	250	283-2414-ND	.24	.18	.16
1A	250	283-2415-ND	.24	.18	.16
1.25A	250	283-2416-ND	.24	.18	.16
1.6A	250	283-2417-ND	.24	.18	.16
2A	250	283-2418-ND	.24	.18	.16
2.5A	250	283-2419-ND	.24	.18	.16
3.15A	250	283-2420-ND	.24	.18	.16
4A	250	283-2421-ND	.24	.18	.16
5A	250	283-2422-ND	.24	.18	.16
6.3A	250	283-2423-ND	.24	.18	.16
8A ◊	250	283-2424-ND	.88	.66	.59
10A ◊	250	283-2425-ND	.88	.66	.59
GDC (S506‡) - Time-Delay, Low Breaking					
100mA	250	283-2263-ND	1.02	.77	.68
125mA	250	283-2264-ND	1.02	.77	.68
160mA	250	283-2265-ND	1.02	.77	.68
250mA	250	283-2267-ND	1.02	.77	.68
315mA	250	283-2268-ND	1.02	.77	.68
400mA	250	283-2269-ND	1.02	.77	.68
500mA	250	283-2270-ND	.74	.56	.50
630mA	250	283-2271-ND	.74	.56	.50
800mA	250	283-2272-ND	.74	.56	.50
1A	250	283-2273-ND	.74	.56	.50
1.25A	250	283-2274-ND	.74	.56	.50
1.6A	250	283-2275-ND	.74	.56	.50
2A	250	283-2276-ND	.74	.56	.50
2.5A	250	283-2277-ND	.74	.56	.50
3.15A	250	283-2278-ND	.74	.56	.50
4A	250	283-2279-ND	.74	.56	.50
5A	250	283-2280-ND	.74	.56	.50
6.3A	250	283-2281-ND	.74	.56	.50

† S501 is a European designation. In North America use GDA respectively when referencing product.

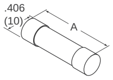
§ S500 is a European designation. In North America use GDB respectively when referencing product.

‡ S506 is a European designation. In North America use GDC respectively when referencing product.

◊ IEC Standard 127 Sheet II does not include ratings above 6.3 amps.

* ***BIF document: #2014*** **(GDA Series),**
#2015 **(GDB Series),**
#2016 **(GDC Series)**

NEW! Multi-Meter Fast-Acting Ferrule Fuses 44/100 and 11 Amps



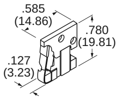
Part No.	Dim A
283-2495-ND	1.375" (±0.031) 34.9mm (±0.79)
283-2496-ND	1.50" (±0.031) 38.1mm (±0.79)

Specifications: • Designed for multi-meters only. • Intended to carry 100% of rated current indefinitely. • Not intended for branch circuit protection.

Construction Material: • Melamine Tube and Nickel Plated Brass End Caps. **Voltage Rating:** 1000 Volts AC/DC. **Interrupting Rating:** DMM-B-44/100 - 10,000A, 1000VAC, unity power factor and 10,000A, 1000VDC with time constant of 2.2ms. Minimum interrupt 400% of rated current at rated voltage. DMM-B-11A - 20,000A, 1000VAC, power factor ≤2; 20,000A, 1000VDC, time constant ≥10ms. **Agency Approvals:** UL Recognized 1000VDC, File E19180.

Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
283-2495-ND	15.75	12.95	10.15	DMM-B-44/100
283-2496-ND	19.28	15.86	12.43	DMM-B-11A

GMT Indicating Fuse



Rated Voltage: 125VAC, 60VDC.

Characteristics: • Fast Acting.

TIme Current Characteristics: Rated current values 1/4-15 amps carry 100% of rating for 10 minutes min.; open at 150% of rating in 5 minutes max.

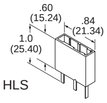
Construction Material: • Body: Thermoplastic, U.L. 94VO flammability rating • Terminals: Tin plated Beryllium Copper

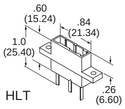
Agency Approvals: UL Recognized

Current Rating	Color Code	Digi-Key Part No.	Price Each 1	10	100
1/4	Violet	283-2051-ND	2.21	2.04	1.53
1/2	Red	283-2053-ND	2.21	2.04	1.53
3/4	Brown	283-2055-ND	2.21	2.04	1.53
1	Gray	283-2056-ND	2.21	2.04	1.53
1-1/3	White	283-2057-ND	2.21	2.04	1.53
1-1/2	White/Ylw.	283-2058-ND	2.21	2.04	1.53
2	Orange	283-2059-ND	2.21	2.04	1.53
3	Blue	283-2060-ND	2.21	2.04	1.53
4	White/Brn.	283-2062-ND	2.21	2.04	1.53
5	Green	283-2063-ND	2.21	2.04	1.53
7-1/2	Blk./White	283-2064-ND	2.21	2.04	1.53
10	Red/White	283-2065-ND	2.21	2.04	1.53
15	Red/Blue	283-2067-ND	2.21	2.04	1.53

* ***BIF document: #5008***

Fuseholders for GMT Type Indicating Fuse


HLS


HLT

PC Mount.

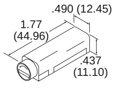
Electrical Rating: 15A (60V DC). **Construction Material:** • Body: Thermoplastic, UL-94V0 flammability rating • Terminals: Tin-plated bifurcated copper. **Agency Approval:** UL Recognized

Description	Digi-Key Part No.	Price Each 1	10	100
No Flange - HLS	283-2358-ND	2.12	1.95	1.60
With Flange - HLT	283-2359-ND	1.92	1.76	1.44

* ***BIF document: #5010***

HBH-I and HBH-M Fuseholders

for 1/4" x 1-1/4" (6.35mm x 31.75mm) & (5mm x 20mm) .205" x .787" fuses



Horizontal PCB Mount

Electrical Ratings: UL-16A @ 250V and CSA - 12A @ 250V

Agency Approvals: UL Recognized, CSA Certified, VDE, and SEMKO

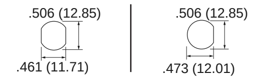
Description	Digi-Key Part No.	Price Each 1	10	Mfg. Part No.
For 1/4 x 1-1/4 (6.35 x 31.75) fuses	283-2351-ND	2.91	2.69	HBH-I
For (5 x 20) .205 x .787 fuses	283-2352-ND	3.97	3.66	HBH-M

* ***BIF document: #2118***

HTB Panel Mount Fuseholders

for 1/4" x 1-1/4" (6.35mm x 31.75mm) & (5mm x 20mm) .205" x .787" fuses

Common Mounting Hole — HTB 2, 3, 4, & 5

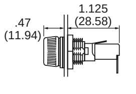


Construction Material: • Terminals: Tin-plated brass • Molded Components: Thermoplastic; UL Component Recognized; 94V0; mounting nut, spacer-black polycarbonate.

Agency Approvals: UL Recognized: 20A (3/16" quick-connect 15A) @ 250V, CSA: 16A @ 250V; Screwdriver slot carrier only, VDE: 10A @ 250V and SEMKO: 10A @ 250V.

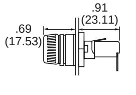
Common Dimensional Data: • Length (Knob Type) — 1.69" (42.9mm) Plus In-Line Terminal (Screwdriver Slotted) 1.75" (44.5mm). Note: Plus In-Line Terminal

Fig. 1



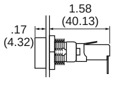
HTB-2: Low Profile
Rear Hex Nut

Fig. 2



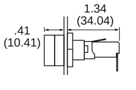
HTB-4: High Profile
Rear Hex Nut

Fig. 3



HTB-3: Low Profile
Rear Hex Nut

Fig. 4

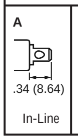


HTB-5: High Profile
Rear Hex Nut

TERMINAL OPTIONS

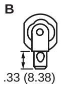
Solder - 3/16" (4.76mm) Quick-Connect

A



In-Line

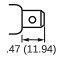
B



Right Angle

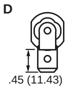
1/4" (6.35mm) Quick-Connect

C



In-Line

D



Right Angle

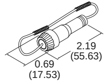
Fig. No.	Term. Opt.	Fuse Accept. In.(mm)	Panel Thick. In.(mm)	Digi-Key Part No.	Price Each 1	10
1	B	1/4x1-1/4 (6.35x31.75)	.30 (7.62)	283-2345-ND	2.69	2.49
1	B	(5x20) .205x.787	.30 (7.62)	283-2354-ND	2.88	2.66
2	A	1/4x1-1/4 (6.35x31.75)	.125 (3.18)	283-2348-ND	3.00	2.77
2	B			283-2346-ND	3.15	2.91
2	B			283-2347-ND†	2.92	2.70
2	C			283-2349-ND	3.38	3.12
2	D			283-2350-ND	3.38	3.12
3	B	(5x20) .205x.787	.30 (7.62)	283-2353-ND	2.88	2.66
4	B	1/4x1-1/4 (6.35x31.75)	.125 (3.18)	283-2344-ND	2.69	2.49

† Splash Proof Seal

* ***BIF document: #2119***

HRK Universal In-Line Fuseholder

for 1/4" x 7/8" to 1-1/4" (6.35mm x 22.23mm x 31.75mm) Fuses



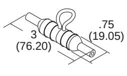
Specifications: • Three springs furnished with fuseholder afford acceptance of 1/4" (6.35mm) fuses of different lengths • Wire leads are staked and soldered to the contacts of the fuseholder • Leads are 8" (20.3mm) long • Wire size - #14

Amps	Volts AC	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
15	32	283-2343-ND	3.38	3.12	2.34	HRK

* ***BIF document: #2111***

HFB Waterproof In-Line Fuseholder

for 1/4" x 1-1/4" (6.35mm x 31.75mm) Fuses



Construction Material: • Body: Thermoplastic rubber (orange) • Contacts: Albaloy plated copper • Accepts 10AWG wire

Amps	Volts AC	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
30	32	283-2355-ND	6.55	5.95	5.36	HFB-10

* ***BIF document: #2102***

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP

Fuseholder Boards

For 1/4" (6.35mm)

Assembled with .125" (3.18mm) thick black phenolic

Fig.	Digi-Key Part No.	Price Each 1	10	100
1	3536K-ND	.93	.85	.63
2	3537K-ND	1.66	1.50	1.11
3	3538K-ND	2.43	2.20	1.62
4	3539K-ND	3.19	2.89	2.13
5	3522-2K-ND	.63	.45	.36
6	3522-3K-ND	.84	.60	.48
7	4527K-ND	—	.37	.32
—	4527CK-ND	1.54/10	13.09/100	59.77/500
8	3527K-ND	.76	.69	.55

Fig. 1 - (3AG)

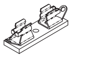


Fig. 2 - (3AG)

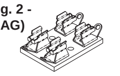


Fig. 3 - (3AG)

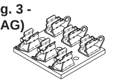
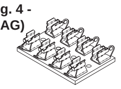


Fig. 4 - (3AG)



Auto Fuse Holders

Fig. 5

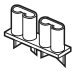


Fig. 6

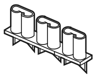


Fig. 7
PC 5mm
Fuse Holder
Order cover separately:
4527CK-ND

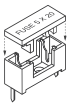
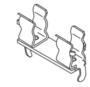


Fig. 8



COOPER Bussmann

Printed Circuit Board Fuseclips

Fig. 1

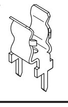


Fig. 2

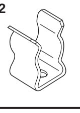


Fig. 3

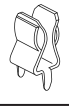


Fig. 4

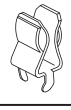


Fig. 5

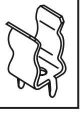
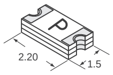


Fig.	Accepts Fuse (Dia.) In. (mm)	End Stop	Lead Type	Clip Material†	Finish	Digi-Key Part No.	Price Each 10	100	250	Cooper/ Bussmann Part No.
1	(5) .205	yes	Straight	Spring Bronze	Bright Tin	283-2335-ND	.20	.15	.13	1A5018-10
2	1/4 (6.35)	no	None	Spring Bronze	Bright Tin	283-2337-ND	.20	.15	.13	5681-15
3	1/4 (6.35)	yes	Straight	Spring Bronze	Bright Tin	283-2338-ND	.15	.11	.10	1A1907-06
3	1/4 (6.35)	no	Straight	Spring Bronze	Bright Tin	283-2339-ND	.20	.15	.14	1A3398-07
4	1/4 (6.35)	yes	Angled-In	Spring Bronze	Bright Tin	283-2341-ND	.27	.20	.18	1A1119-10
3	1/4 (6.35)	yes	Straight	Beryllium Copper	Silver	283-2342-ND	.53	.40	.36	1A1907-05
5	1/4 (6.35)	no	Angled-In	Spring Bronze	Bright Tin	283-2340-ND	.27	.20	.18	1A1120-09

† Beryllium copper recommended for currents higher than 15 amps (1/4" or 6.35mm clips).

* ***BIF document: #2131 (#2132 for Digi-Key Part No.283-2337-ND)***

WICKMANN Polyfuse® Resettable Fuses (0805)



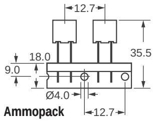
Approvals: cULus Recognized: File Number E201431 TUV, File Number R9956421 **Features:** • Low voltage overcurrent protection cCompliance with UL 1950 standard • For high density PCB applications, including cellular phones, computers and peripherals **Materials:** • Terminals: • Solder-plated copper • Plating: 63/37 SnPb **Operating/Storage Temperature:** -40° to +85°C **Electrical Definitions:** • **Ihold:** Hold current: maximum current device will pass without tripping in 20°C still air • **Itrip:** Trip current: Minimum current at which the device will trip in 20°C still air • **Isc:** Maximum fault current device can withstand without damage at rated voltage • **Ril:** Minimum resistance of device in initial (un-soldered) state • **Rat:** Maximum resistance of device at 20°C measured one hour after tripping ***Caution:*** *Operation beyond the specified rating may result in damage and possible arcing and flame.*

Ihold (mA)	Itrip (A)	Volt. Rating (V)	Isc (A)	Max time to Trip Current (A)	Max time to Trip Time (sec)	Resis. (Ω) Ril	Resis. (Ω) Rat	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Size	Tape & Reel Pricing*
100	.30	15	40	.50	1.5	1.00	6.00	WK1069CT-ND	1.15	1.07	4,000	477.00/M
200	.50	9	40	8.0	.02	.650	3.50	WK1070CT-ND	1.15	1.07	4,000	477.00/M
350	.75	6	40	8.0	0.1	.250	1.20	WK1071CT-ND	1.15	1.07	4,000	477.00/M
500	1.0	6	40	8.0	0.1	.150	.850	WK1072CT-ND	1.23	1.15	3,000	509.00/M

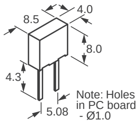
***** For Tape and Reel part number, change CT-ND to TR-ND.

TIP Telecom Duty Fuses (Telecom Interface Protector)

Approvals: cULus Recognized: File No. E67006. Complies to FCC 47 Part 68; Bellcore GR-1089. **Features:** • For UL1950 3rd Edition applications • Highly defined cutoff times • Flame resistant encapsulated casing • Low internal resistance • Irreversible physical separation • Stable characteristics under varying temperatures. **Max. Fault Currents:** ≤50A at 125 VAC; ≤35A at 125 VDC. **Material:** • Base and Cap: Brown thermoplastic (polyamide PA 6.6), UL 94-V0; • Round Pins: Copper alloy, tin-plated



Ammopack



Short Leads

Electrical Characteristics:

Rated Current	Pre-arcing Rating 100%	Pre-arcing Rating 300%
350mA-1.50A	2 hr. min.	300ms...5s

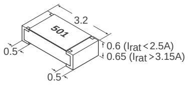
Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Price Each 1	Price Each 10	Tape & Ammo-Pk. Pricing*
TIP 385 Series					
.350	125	WK4560BK-ND	.64	.60	234.91/M
1.00	125	WK4563BK-ND	.56	.52	227.65/M
1.25	125	WK4564BK-ND	.54	.50	217.50/M
1.50	125	WK4565BK-ND	.57	.53	205.91/M

***** For Tape & Ammo Pack #, change BK-ND to TB-ND.

NEW! 1206 Surface Mount Fuses FCD12 Series

Standard:
- UL 248-14

Materials:
- Housing: Ceramic substrate, Glass encapsulated; • Element: Metal Film; • Terminals: Tinned, metallized



Solderability: 235°C, 2 Sec. (At least 95% of the terminal surface must be covered by new solder)

Recommended Solder Glue: Grace Amicon 125F
Marking: Code for Current Rating

Electrical Characteristics:

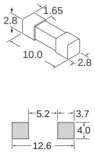
Rated Current	Pre-arcing Rating 250%
500mA, 5.00A	<5s

Amp Rtg. (A)	Volt. Rtg.	Mark.	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	T & R Pricing* 5,000
FCD12 Series						
500m	50	501	WK6213CT-ND	.56	.53	242.00/M
630m	50	631	WK6214CT-ND	.56	.53	242.00/M
800m	50	801	WK6215CT-ND	.56	.53	242.00/M
1.00	50	102	WK6216CT-ND	.56	.53	242.00/M
1.25	50	132	WK6217CT-ND	.56	.53	242.00/M
1.60	50	162	WK6218CT-ND	.56	.53	242.00/M
2.00	50	202	WK6219CT-ND	.56	.53	242.00/M
2.50	50	252	WK6220CT-ND	.56	.53	242.00/M
3.15	32	UD	WK6221CT-ND	.56	.53	242.00/M
4.00	32	XD	WK6222CT-ND	.56	.53	242.00/M
5.00	32	YD	WK6223CT-ND	.56	.53	242.00/M

***** For Tape and Reel part number, change CT-ND to TR-ND.

Telecom Protectors
Transient Tolerant

Applicable Standards:
- UL 1950/60950 3rd Edition • Telcordia (Bellcore) GR-1089 • FCC 47 CFR Part 68



Approvals: cULus Recognized

Features: • Surge proof for telecom line applications • No need for series resistors (1.25A & 2.00A)

Materials: • Housing: Ceramic tube; • Element: Wire • Terminals: Copper, nickel & silver plated

Electrical Characteristics:

Rated Current	Pre-arcing Rating 100%	Pre-arcing Rating 250%
1.25, 2.00A	>4hr.	1-120 sec.

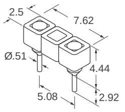
Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	T & R Pricing* 500
457 Series					
1.25	250	WK1067CT-ND	1.26	1.18	632.00/M
2.00	250	WK1068CT-ND	1.26	1.18	632.00/M

***** For Tape and Reel part number, change CT-ND to TR-ND.

TE5 Fuseholder

Material:
- Black thermoplastic UL 94-V0 • Terminals: Brass, tin-plated for soldering

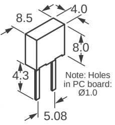
Rated Values:
250V; 6.3A; UL Recognized



Holes in pc board: Ø1.0

WK0009-ND .... **$.41/1 $3.71/10 $27.00/100**

TE5 Sub-Miniature Fuses – UL 248-14



Short Leads

Approvals (395 and 396 Series): cUL Listed, UL Listed for .050A-6.30A. MITI approved for 1.00A-5.00A **Features:** • Fast-acting and time-lag • Material: Brown thermoplastic UL 94-V0, • Round Pins: Copper alloy, tin-plated • Soldering Heat Resistance: 260°C, 10s (IEC 60068-2-20) • Plug-in holders available

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 100%	Pre-arcing Rating 200%
395	**50mA-6.3A**	> 4 hr.	< 5 sec.
396	**50mA-6.3A**	> 4 hr.	< 60 sec.

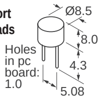
Breaking Capacity: 100A at 125VAC

Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Bulk Price Each 1	Bulk Price Each 10	Bulk Price Each 100
Fast-Acting 395 Series					
.050	125	WK4322BK-ND	2.29	2.12	1.59
.063	125	WK4325BK-ND	1.85	1.71	1.29
.080	125	WK4326BK-ND	1.81	1.68	1.26
.100	125	WK4327BK-ND	1.77	1.64	1.23
.125	125	WK4328BK-ND	.61	.57	.43
.160	125	WK4330BK-ND	.61	.57	.43
.200	125	WK4334BK-ND	.61	.57	.43
.250	125	WK4335BK-ND•	.61	.57	.43
.315	125	WK4337BK-ND	.61	.57	.43
.400	125	WK4340BK-ND	.61	.57	.43
.500	125	WK4341BK-ND•	.61	.57	.43
.630	125	WK4343BK-ND	.61	.57	.43
.800	125	WK4346BK-ND	.61	.57	.43
1.00	125	WK4348BK-ND•	.61	.57	.43
1.25	125	WK4350BK-ND•	.61	.57	.43
1.60	125	WK4353BK-ND	.61	.57	.43
2.00	125	WK4357BK-ND•	.61	.57	.43
2.50	125	WK4358BK-ND•	.61	.57	.43
3.15	125	WK4324BK-ND	.61	.57	.43
4.00	125	WK4362BK-ND•	.61	.57	.43
5.00	125	WK4363BK-ND	.61	.57	.43
6.30	125	WK4366BK-ND•	.61	.57	.43
Time-Lag 396 Series					
.050	125	WK4422BK-ND	1.17	1.09	.82
.063	125	WK4425BK-ND	1.27	1.18	.88
.080	125	WK4426BK-ND	1.02	.94	.71
.100	125	WK4427BK-ND	.88	.82	.61
.125	125	WK4428BK-ND	.85	.79	.60
.160	125	WK4430BK-ND	.78	.72	.54
.200	125	WK4434BK-ND•	.78	.72	.54
.250	125	WK4435BK-ND	.73	.68	.51
.315	125	WK4437BK-ND	.73	.68	.51
.400	125	WK4440BK-ND	.73	.68	.51
.500	125	WK4441BK-ND•	.70	.65	.49
.630	125	WK4443BK-ND	.67	.62	.47
.800	125	WK4446BK-ND•	.67	.62	.47
1.00	125	WK4448BK-ND•	.67	.62	.47
1.25	125	WK4450BK-ND	.67	.62	.47
1.60	125	WK4453BK-ND•	.67	.62	.47
2.00	125	WK4457BK-ND•	.67	.62	.47
2.50	125	WK4458BK-ND	.67	.62	.47
3.15	125	WK4424BK-ND•	.67	.62	.47
4.00	125	WK4462BK-ND•	.67	.62	.47
5.00	125	WK4463BK-ND•	.67	.62	.47
6.30	125	WK4466BK-ND	.67	.62	.47

• **Kit includes:** 10 pieces of each. Also includes 20 pcs. of TE5 Fuseholder (WK0009-ND).
WK0117-KIT-ND *NEW!*.................. **$79.95**

TR5 Sub-Miniature Fuses – IEC 60127-3

Short Leads



Approvals: 370 Series: Semko Approved, VDE Approved, cULus Recognized, (0.050A-4.00A) **372 Series:** Semko Approved, cULus Recognized, (0.050A-5.00A), VDE Approved (0.050A-4.00A). **382 Series:** VDE, SEMKO (1.00-4.00A) ,cULus Recognized, MITI(1.00-5.00A) **Material:** • Base and Cap: Brown thermoplastic UL94-V0, insulated • Round Pins: Copper alloy, tin-plated **Features:** • Fast-acting and Time-lag • Soldering Heat Resistance: 260°C, 10s (IEC 60068-2-20) • Plug-in holders available

Electrical Characteristics:

Pre-arcing Rating 150%	210%	275%	400%	1000%
Series 370 — 50mA-4.0A				
>1 hr.	<30 min.	10ms -3sec.	3-300ms	<20ms
Series 372 — 50mA-5.00A				
>1 hr.	<2 min.	400ms-10sec.	150ms-3sec.	20-150ms
Series 382 — 1.00A-5.00A				
>1 hr.	<2 min.	400ms-10sec.	150ms-3sec.	20-150ms

BREAKING CAPACITY: 370 and 372 Series: 35A at 250VAC for (.050-3.15A), 40A for (4.00A), 50A for (5.00A) **382 Series:** 100A at 250VAC (1.00-5.00A)

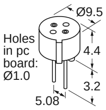
Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Bulk Price Each 1	Bulk Price Each 10	Bulk Price Each 100
Fast-Acting 370 Series					
.050	250	WK4922BK-ND	1.30	1.21	.91
.063	250	WK4925BK-ND	1.27	1.17	.88
.080	250	WK4926BK-ND	1.27	1.17	.88
.100	250	WK4927BK-ND	1.27	1.17	.88
.125	250	WK4928BK-ND	1.27	1.17	.88
.160	250	WK4930BK-ND	.49	.45	.34
.200	250	WK4934BK-ND	.49	.45	.34
.250	250	WK4935BK-ND•	.49	.45	.34
.315	250	WK4937BK-ND	.49	.45	.34
.400	250	WK4940BK-ND	.49	.45	.34
.500	250	WK4941BK-ND	.49	.45	.34
.630	250	WK4943BK-ND	.49	.45	.34
.800	250	WK4946BK-ND	.49	.45	.34
1.00	250	WK4948BK-ND•	.49	.45	.34
1.25	250	WK4950BK-ND•	.49	.45	.34
1.60	250	WK4953BK-ND•	.49	.45	.34
2.00	250	WK4957BK-ND•	.49	.45	.34
2.50	250	WK4958BK-ND	.49	.45	.34
3.15	250	WK4924BK-ND	.49	.45	.34
4.00	250	WK4962BK-ND	.49	.45	.34
Time-Lag 372 Series					
.050	250	WK4222BK-ND	.74	.69	.52
.063	250	WK4225BK-ND	.71	.66	.50
.080	250	WK4226BK-ND	.63	.59	.44
.100	250	WK4227BK-ND	.63	.59	.44
.125	250	WK4228BK-ND	.58	.54	.41
.160	250	WK4230BK-ND•	.58	.54	.41
.200	250	WK4234BK-ND•	.55	.51	.39
.250	250	WK4235BK-ND	.55	.51	.39
.315	250	WK4237BK-ND•	.55	.51	.39
.400	250	WK4240BK-ND	.55	.51	.39
.500	250	WK4241BK-ND•	.55	.51	.39
.630	250	WK4243BK-ND•	.55	.51	.39
.800	250	WK4246BK-ND•	.55	.51	.39
1.00	250	WK4248BK-ND•	.55	.51	.39
1.25	250	WK4250BK-ND	.55	.51	.39
1.60	250	WK4253BK-ND•	.55	.51	.39
2.00	250	WK4257BK-ND•	.55	.51	.39
2.50	250	WK4258BK-ND•	.55	.51	.39
3.15	250	WK4224BK-ND•	.55	.51	.39
4.00	250	WK4262BK-ND•	.59	.55	.41
5.00	250	WK4263BK-ND	.59	.55	.41
Time-Lag High Breaking 382 Series (IEC 60127-3/IV)					
1.00	250	WK6207BK-ND	.55	.51	.39
2.00	250	WK6208BK-ND	.55	.51	.39
2.50	250	WK6209BK-ND	.55	.51	.39
3.15	250	WK6210BK-ND	.55	.51	.39
4.00	250	WK6211BK-ND	.55	.51	.39
5.00	250	WK6212BK-ND	.55	.51	.39

• **Kit includes:** 10 pieces of each. Also includes 15 pcs. of TR5 Fuseholder (WK0001-ND).
WK0113-KIT-ND *NEW!*.................. **$74.95**

TR5 Fuseholder

Material:
- Black Thermoplastic, UL 94-V0 • Terminals: brass, tin-plated

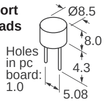
Rated Values:
250V; 6.3A



WK0001-ND .... **$.60/1; $5.55/10; $41.63/100**

TR5 Sub-Miniature Fuses – UL 248-14

Short Leads



Approvals: 373 and 374 Series: UL Listed, CSA Certified Approved (.050A-10A) **Material:** • Base and cap: Brown thermoplastic UL 94-V0, insulated • Round Pins: Copper alloy, tin-plated **Features:** • Fast-acting and Time-lag • Soldering Heat Resistance: Acc. to IEC 68, part 2-20, 260°C, 10sec • Plug-in holders available

Electrical Characteristics:

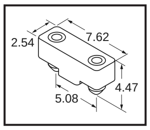
Series	Rated Current	Pre-arcing Rating 100%	Pre-arcing Rating 200%
373	**50mA-10.A**	4 hr. min.	5 sec. max.
374	**50mA-10.00A**	4 hr. min.	60 sec.max.

Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Bulk Price Each 1	Bulk Price Each 10	Bulk Price Each 100
Fast-Acting 373 Series					
.050	250	WK3022BK-ND	2.42	2.24	1.68
.063	250	WK3025BK-ND	1.85	1.71	1.28
.080	250	WK3026BK-ND	1.80	1.67	1.25
.100	250	WK3027BK-ND	1.77	1.64	1.23
.125	250	WK3028BK-ND	.60	.56	.42
.160	250	WK3030BK-ND	1.54	1.42	1.07
.200	250	WK3034BK-ND	1.54	1.42	1.07
.250	250	WK3035BK-ND•	.60	.56	.42
.315	250	WK3037BK-ND	.60	.56	.42
.400	250	WK3040BK-ND	.60	.56	.42
.500	250	WK3041BK-ND•	.60	.56	.42
.630	250	WK3043BK-ND	.60	.56	.42
.800	250	WK3046BK-ND	.60	.56	.42
1.00	250	WK3048BK-ND•	.60	.56	.42
1.25	250	WK3050BK-ND•	.60	.56	.42
1.60	250	WK3053BK-ND	.60	.56	.42
2.00	250	WK3057BK-ND•	.60	.56	.42
2.50	250	WK3058BK-ND•	.60	.56	.42
3.15	250	WK3024BK-ND	.60	.56	.42
4.00	250	WK3062BK-ND•	.60	.56	.42
5.00	250	WK3063BK-ND	.60	.56	.42
6.30	250	WK3066BK-ND•	.60	.56	.42
10.00	250	WK3071BK-ND	.61	.57	.43
Time-Lag 374 Series					
.050	250	WK4022BK-ND	1.23	1.14	.86
.063	250	WK4025BK-ND	1.30	1.20	.90
.080	250	WK4026BK-ND	1.04	.97	.73
.100	250	WK4027BK-ND	.91	.84	.63
.125	250	WK4028BK-ND	.89	.82	.62
.160	250	WK4030BK-ND	.79	.73	.55
.200	250	WK4034BK-ND•	.79	.73	.55
.250	250	WK4035BK-ND	.73	.68	.51
.315	250	WK4037BK-ND	.73	.68	.51
.400	250	WK4040BK-ND	.73	.68	.51
.500	250	WK4041BK-ND•	.67	.62	.47
.630	250	WK4043BK-ND	.67	.62	.47
.800	250	WK4046BK-ND•	.67	.62	.47
1.00	250	WK4048BK-ND•	.67	.62	.47
1.25	250	WK4050BK-ND	.67	.62	.47
1.60	250	WK4053BK-ND•	.67	.62	.47
2.00	250	WK4057BK-ND•	.67	.62	.47
2.50	250	WK4058BK-ND	.67	.62	.47
3.15	250	WK4024BK-ND•	.67	.62	.47
4.00	250	WK4062BK-ND•	.67	.62	.47
5.00	250	WK4063BK-ND•	.67	.62	.47
6.30	250	WK4066BK-ND	.68	.63	.48
10.00	250	WK4071BK-ND	.72	.67	.51

• **Kit includes:** 10 pieces of each. Also includes 15 pcs. of TR5 Fuseholder (WK0001-ND).
WK0116-KIT-ND *NEW!*.................. **$79.95**

WICKMANN

TR5 / TE5 SMT Fuseholder

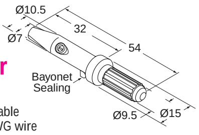


Material:
- Black thermoplastic UL 94-V0
- Terminals: Brass, tin-plated
- UL Recognized

Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	T & R Pricing* 1,500
6.3	250	WK0010CT-ND	.47	.43	249.60/M

* For Tape and Reel part #, change CT-ND to TR-ND.

5x20mm In-Line Fuseholder

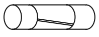


Terminals:
- Solderable/screwable
- Accepts 14-20AWG wire

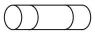
Ratings:
63V, 6.3A

WK0012-ND **$1.24/1; $11.43/10; $85.73/100**

IEC 60127-2 Metric (5x20mm) Fuses



193 & 195 Series – Glass



181 & 194 Series – Ceramic

Approvals:

193 Series: SEMKO Approved, VDE Approved (.050A-6.30A), cULus Recognized (0.050A-6.30A)

194 Series: SEMKO Approved, VDE Approved (0.200A-6.30A), cULus Recognized (0.315A-10A)

181 Series: SEMKO Approved, BSI Approved, VDE Approved, IMQ Approved, cULus Recognized (1.0–10A), SEV Approved, MITI (1-5A), CCEE (1.25-6.3A)

195 Series: SEMKO Approved, VDE Approved, BSI Approved, IMQ Approved (0.032A–6.30A), cULus Recognized (0.032A-12.50A)

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 150%	210%	275%	400%	1000%
193	0.050 .100A	> 1 hr.	< 30 min.	10-500ms	3-100 ms	<20 ms
	.125 6.3A	> 1 hr.	< 30 min.	50ms-2 sec.	10-300ms	<20 ms
194	0.200 3.15A	> 1 hr.	< 30 min.	10ms-2 sec.	3-300 ms	<20 ms
	4.0-6.3A	> 30 min.	< 30 min.	10ms-3 sec.	3-300 ms	<20 ms
	8.0 10.0A	> 30 min.	> 1 hr.	10ms-3 sec.	3-300 ms	<20 ms
181	1.00-3.15A	> 1 hr.	< 30 min.	1-80 sec.	95ms-5sec.	10-100ms
	4.00-6.3A	> 1 hr.	< 30 min.	1-80 sec.	150ms-5sec.	20-100ms
	8.00-10.0A	> 1 hr.	< 30 min.	—	60ms-5sec.	10-100ms
195	0.032 .100A	> 1 hr.	< 2 min.	200ms-10 sec.	40ms-3 sec.	10-300 ms
	.125-6.3A	> 1 hr.	< 2 min.	600ms-10 sec.	150 ms-3 sec.	20-300 ms
	8.0 16.0A	> 30 min.	< 10 min.	—	—	20-300 ms

BREAKING CAPACITY:

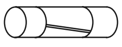
193 Series: 35A at 250VAC for (.050-3.15A), 40A for (4.0A), 50A for (5A), 63A for (6.3A)
194 Series: 1500A at 250VAC
181 Series: 1500A at 250VAC (≤ 6.30A), 1000A at 250VAC (8-10A)
195 Series: 35A at 250VAC for (.032-3.15A), 40A for (4.0A), 50A for (5.0A), 63A for (6.3-16A)

Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Price Each 1	10	100
Fast-Acting 193 Series					
.050	250	WK1022-ND	1.28	1.19	.89
.063	250	WK1025-ND	1.28	1.19	.89
.080	250	WK1026-ND	.71	.66	.50
.100	250	WK1027-ND	.28	.26	.20
.125	250	WK1028-ND	.28	.26	.20
.160	250	WK1030-ND	.28	.26	.20
.200	250	WK1034-ND	.28	.26	.20
.250	250	WK1035-ND•	.28	.26	.20
.315	250	WK1037-ND	.28	.26	.20
.400	250	WK1040-ND	.28	.26	.20
.500	250	WK1041-ND•	.28	.26	.20
.630	250	WK1043-ND	.28	.26	.20
.800	250	WK1046-ND•	.28	.26	.20
1.00	250	WK1048-ND•	.28	.26	.20
1.25	250	WK1050-ND•	.28	.26	.20
1.60	250	WK1053-ND	.28	.26	.20
2.00	250	WK1057-ND•	.28	.26	.20
2.50	250	WK1058-ND•	.28	.26	.20
3.15	250	WK1124-ND	.29	.27	.21
4.00	250	WK1062-ND•	.29	.27	.21
5.00	250	WK1063-ND	.29	.27	.21
6.30	250	WK1066-ND•	.29	.27	.21
Fast Acting, High Breaking Capacity 194 Series					
.200	250	WK2034-ND	1.12	1.04	.78
.250	250	WK2035-ND	1.12	1.04	.78
.315	250	WK2037-ND	1.12	1.04	.78
.400	250	WK2040-ND	.54	.50	.38
.500	250	WK2041-ND	.54	.50	.38
.630	250	WK2043-ND	.54	.50	.38
.800	250	WK2046-ND•	.54	.50	.38
1.00	250	WK2048-ND•	.54	.50	.38
1.25	250	WK2050-ND	.54	.50	.38
1.60	250	WK2053-ND•	.54	.50	.38
2.00	250	WK2057-ND•	.54	.50	.38
2.50	250	WK2058-ND	.54	.50	.38
3.15	250	WK2124-ND•	.57	.53	.40
4.00	250	WK2062-ND	.57	.53	.40
5.00	250	WK2063-ND•	.57	.53	.40
6.30	250	WK2066-ND•	.57	.53	.40
8.00	250	WK2069-ND	.60	.56	.42
10.00	250	WK2071-ND•	.60	.56	.42
Time Lag High Breaking Capacity 181 Series (IEC 60127-2/SS5V)					
1.00	250	WK2248-ND†	.57	.53	.40
1.25	250	WK2250-ND	.38	.35	.27
1.60	250	WK2253-ND†	.38	.35	.27
2.00	250	WK2257-ND†	.38	.35	.27
2.50	250	WK2258-ND	.38	.35	.27
3.15	250	WK2224-ND†	.38	.35	.27
4.00	250	WK2262-ND	.38	.35	.27
5.00	250	WK2263-ND†	.38	.35	.27
6.30	250	WK2266-ND†	.38	.35	.27
8.00	250	WK6202-ND	.28	.26	.20
10.00	250	WK6203-ND†	.33	.30	.23
Time-Lag 195 Series					
.032	250	WK5019-ND	1.46	1.35	1.02
.040	250	WK5021-ND	.99	.92	.69
.050	250	WK5022-ND	.99	.92	.69
.063	250	WK5025-ND	.83	.77	.58
.080	250	WK5026-ND	.84	.78	.59
.100	250	WK5027-ND	.72	.66	.50
.125	250	WK5028-ND	.66	.61	.46
.160	250	WK5030-ND	.66	.61	.46
.200	250	WK5034-ND	.54	.50	.38
.250	250	WK5035-ND†	.48	.45	.34
.315	250	WK5037-ND	.46	.43	.32
.400	250	WK5040-ND	.43	.40	.30
.500	250	WK5041-ND†	.43	.40	.30
.630	250	WK5043-ND	.43	.40	.30
.800	250	WK5046-ND	.41	.38	.29
1.00	250	WK5048-ND†	.41	.38	.29
1.25	250	WK5050-ND	.41	.38	.29
1.60	250	WK5053-ND	.41	.38	.29
2.00	250	WK5057-ND†	.32	.30	.22
2.50	250	WK5058-ND†	.32	.30	.22
3.15	250	WK5124-ND†	.32	.30	.22
4.00	250	WK5062-ND†	.34	.32	.24
5.00	250	WK5063-ND	.34	.32	.24
6.30	250	WK5066-ND†	.34	.32	.24
8.00	250	WK5069-ND	.34	.32	.24
10.00	250	WK5071-ND†	.39	.36	.27
12.50	250	WK5126-ND†	.39	.36	.27
16.00	250	WK5074-ND	.47	.44	.33
PC Board Mount (5x20mm)					
—	—	WK0011-ND	.34	.32	.24

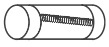
• **Kit includes:** 10 pieces of each. Also includes 5 pcs. of Shock-Safe Fuseholder (WK0011-ND).
WK0119-KIT-ND *NEW!*..................**$59.95**

† **Kit includes:** 10 pieces of each. Also includes 5 pcs. of Shock-Safe Fuseholder (WK0011-ND).
WK0120-KIT-ND *NEW!*..................**$59.95**

UL / CSA Fuses Metric (5x20mm) — UL 248-14



191 and 197 Series – Glass



198 Series – Glass

Equivalent to:

Wickmann	Littelfuse	Bussmann
191 Series	235	GMA
197 Series	233	GMC
198 Series	239	GMD

Approvals:

191 Series:
UL, cUL listed, .250A-7.00A

197 Series:
UL, cUL listed, 1.00A - 7.00A.

198 Series:
UL listed, CSA certified, .250A-3.50A

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 135%	200%
191	**.250A - 7.00A**	**< 1 hr.**	**< 5 sec.**
197	**1.00A - 7.00A**	**< 1 hr.**	**< 120 sec.**
198	**.250A - 3.00A** **3.50A**	**< 1 hr** **< 1 hr**	**5-120 sec.** **12-120 sec.**

Breaking Capacity

191 Series:
35A at 250VAC (.250A-1.00A); 100A at 250VAC (1.25A-3.50A); 10,000A at 125VAC (.250A-7.00A)

197 Series:
35A at 250VAC (.250A-1.00A); 100A at 250VAC (1.25A - 3.50A); 10,000A at 125VAC (.250A - 7.00A)

198 Series:
35A at 250VAC (.250A -1.00A); 100A at 250VAC (1.25A - 3.50A); 10,000A at 125VAC (.250A - 3.50A)

Amp Rating	Volt. Rtg.	Digi-Key Part No.	Price Each 1	10	100
Fast-Acting 191 Series					
.250	250	WK4701-ND	—	.27	.21
.300	250	WK4702-ND	—	.21	.16
.350	250	WK4703-ND	—	.21	.16
.400	250	WK4704-ND	—	.21	.16
.500	250	WK4705-ND	—	.18	.14
.600	250	WK4706-ND	—	.18	.14
.700	250	WK4707-ND	—	.18	.14
.800	250	WK4708-ND	—	.15	.12
1.00	250	WK4709-ND	—	.15	.12
1.25	250	WK4710-ND	—	.15	.12
1.60	250	WK4711-ND	—	.15	.12
2.00	250	WK4712-ND	—	.15	.12
2.50	250	WK4713-ND	—	.18	.14
3.00	250	WK4714-ND	—	.21	.16
3.50	250	WK4715-ND	—	.15	.12
4.00	125	WK4716-ND	—	.21	.16
5.00	125	WK4717-ND	—	.15	.12
6.00	125	WK4718-ND	—	.21	.16
7.00	125	WK4719-ND	—	.15	.12
Medium Time-Lag 197 Series					
1.00	250	WK4748-ND	.29	.27	.21
1.25	250	WK4750-ND	.29	.27	.21
1.60	250	WK4753-ND	.29	.27	.21
2.00	250	WK4757-ND	.29	.27	.21
2.50	250	WK4758-ND	.29	.27	.21
3.00	250	WK4760-ND	.29	.27	.21
3.50	250	WK4723-ND	.29	.27	.21
4.00	125	WK4762-ND	.29	.27	.21
5.00	125	WK4763-ND	.29	.27	.21
6.00	125	WK4764-ND	.29	.27	.21
7.00	125	WK4767-ND	.29	.27	.21
Time-Lag 198 Series					
.250	250	WK4835-ND	.70	.65	.49
.300	250	WK4836-ND	.65	.60	.45
.400	250	WK4840-ND	.62	.58	.43
.500	250	WK4841-ND	.83	.77	.58
.600	250	WK4842-ND	.74	.69	.52
.700	250	WK4844-ND	.74	.69	.52
.800	250	WK4846-ND	.78	.72	.54
1.00	250	WK4848-ND	.75	.69	.52
1.25	250	WK4850-ND	.75	.69	.52
1.60	250	WK4853-ND	.75	.69	.52
2.00	250	WK4857-ND	.75	.69	.52
2.50	250	WK4858-ND	.75	.69	.52
3.00	250	WK4860-ND	.80	.75	.56
3.50	250	WK4823-ND	1.11	1.02	.77

Shock-Safe Fuseholders

Shock-Safe fuseholders for 1/4 x 1-1/4” (3AG) or 5 x 20mm fuses built according to UL 512 and IEC EN 60127-6 and CSA C22.2 No. 39. Rated for use up to 250 Volts. (VDE, SEMKO); Fig. 1, 2, 3, 4, 6 at 6.3 Amps; Fig 5 at 10 Amps. Casing made of black thermoplastic with UL-94V0 ratings. Injection-molded terminals prevent intermittent connections.

PC Mount versions include additional pin(s) for added stability from torsional forces seen during fuse removal.

Panel Mount versions have combination 3/16” quick-connect/solderable tabs.

- Order number includes holder and carrier.

PC Board Mount (Fig. 7): No approvals. Body Material: White thermoplastic, UL 94-V1 rated; Rated Current: 6.3A

Vertical PC Mount

Fig. 1 – (3AG)

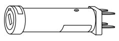
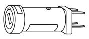
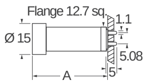
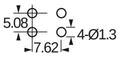


Fig. 2 – (5mm x 20mm)







PCB Layout

Horizontal PC Mount

Fig. 3 – (3AG)

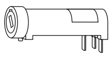
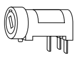
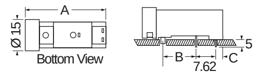
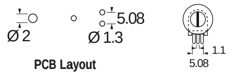


Fig. 4 – (5mm x 20mm)







PCB Layout

Panel Mount

Fig. 5 – (3AG)

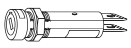
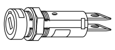
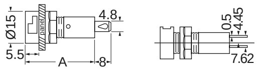
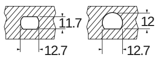


Fig. 6 – (5mm x 20mm)







Panel Cutout (Alternatives)

PC Mount

Fig. 7 – (5mm x 20mm)

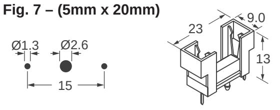
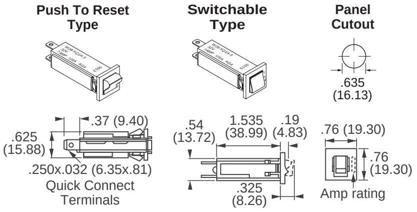


Fig.	Dimension A	B	C	Digi-Key Part No.	Price Each 1	10	100
Vertical PC Mount							
1	46.3	—	—	WK0004-ND	2.60	2.40	1.80
2	32.6	—	—	WK0007-ND	2.21	2.04	1.53
Horizontal PC Mount							
3	45.7	27.94	1.9	WK0003-ND	2.60	2.40	1.80
4	32	12.7	1.8	WK0006-ND	2.21	2.04	1.53
Panel Mount							
5	45.7	—	—	WK0002-ND	2.60	2.40	1.80
6	32	—	—	WK0005-ND	2.21	2.04	1.53
PC Board Mount (5x20mm)							
7	—	—	—	WK0011-ND	.34	.32	.24

P&B tyco Electronics
Authorized Distributor

Thermal Circuit Breakers

W28 Series



Replaces slow blow cartridge type fuses. Labor saving snap-in mounting. Switchable version combines on-off switch and circuit protection in a single unit. Button extends for visual trip indication on the push to reset versions and rocker on switchable model moves to "overload" position upon trip. All breakers are black body with white rate marking. Panel thickness of .032" to .062" (.81mm to 1.57mm) except where noted. Optional push-on lockwasher for panel thickness greater than .105" (2.67mm).

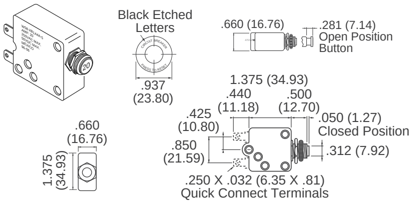
Specifications:
- Maximum operating voltage: 32VDC; 250VAC • Will continuously carry 100% of rated current. Switchable type is UL approved at 120VAC
- **.25-2 Amp Model** may trip between 101% and 174% of rating within 1 hour, must trip at 175% of rating within 1 hour at 25°C
- **3-20 Amp Model** may trip between 101% and 134% of rating within 1 hour, must trip at 135% of rating within 1 hour at 25°C

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Push To Reset Type					
0.25	PB180-ND	4.46	3.91	3.54	W28-XQ1A-0.25
0.50	PB181-ND	4.46	3.91	3.54	W28-XQ1A-0.50
1	PB182-ND	4.46	3.91	3.54	W28-XQ1A-1
2	PB183-ND	4.46	3.91	3.54	W28-XQ1A-2
3	PB184-ND	2.50	2.19	1.98	W28-XQ1A-3
4	PB185-ND	2.50	2.19	1.98	W28-XQ1A-4
5	PB186-ND	2.50	2.19	1.98	W28-XQ1A-5
6	PB187-ND	2.50	2.19	1.98	W28-XQ1A-6
7	PB188-ND	2.50	2.19	1.98	W28-XQ1A-7
8	PB189-ND	2.50	2.19	1.98	W28-XQ1A-8
10	PB190-ND	2.50	2.19	1.98	W28-XQ1A-10
12	PB191-ND	2.50	2.19	1.98	W28-XQ1A-12
15	PB192-ND	2.50	2.19	1.98	W28-XQ1A-15
10	PB239-ND†	2.50	2.19	1.98	W28-XT1A-10
12	PB240-ND†	2.50	2.19	1.98	W28-XT1A-12
20	PB425-ND	2.50	2.19	1.98	W28-XQ1A-20
Switchable Type					
3	PB233-ND	3.00	2.63	2.38	W28-SQ11A-3
5	PB234-ND	3.00	2.63	2.38	W28-SQ11A-5
10	PB236-ND	3.00	2.63	2.38	W28-SQ11A-10
15	PB238-ND	3.00	2.63	2.38	W28-SQ11A-15
Internal Lock Washer — W28 Series					
—	PB241-ND*	.24	.21	.19	55-025B

† Will mount in .075" to .105" (1.91mm to 2.67mm) thick panel, all others have std. panel thickness of .032" to .062" (.81mm to 1.57mm)

* Optional Push-On Lock Washer for panels greater than .105" (2.67mm) thickness.

W58 Series



Button extends for visual trip indication (red trip band). .250" (6.35mm) quick connect terminals or 6/32 screw terminals. Comes complete with knurled nut and hex nut assembled on bushing.
Specifications: • Breaker will continuously carry 100% of rated load. It may trip between 101% and 144% of rated load, but must trip at 145% at 25°C. • Maximum operating voltage: 50VDC, 250VAC

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Push to Reset Breaker — .250 (6.35) QC Terminal					
1	PB193-ND ‡	5.40	4.73	4.28	W58-XB1A4A-1
2	PB194-ND ‡	5.40	4.73	4.28	W58-XB1A4A-2
3	PB195-ND ‡	5.40	4.73	4.28	W5B-XB1A4A-3
4	PB196-ND ‡	5.40	4.73	4.28	W58-XB1A4A-4
5	PB197-ND ‡	3.86	3.39	3.06	W58-XB1A4A-5
6	PB198-ND ‡	3.86	3.39	3.06	W58-XB1A4A-6
7	PB199-ND ‡	3.86	3.39	3.06	W58-XB1A4A-7
8	PB200-ND ‡	3.86	3.39	3.06	W58-XB1A4A-8
10	PB201-ND ‡	3.86	3.39	3.06	W58-XB1A4A-10
12	PB202-ND ‡	3.86	3.39	3.06	W58-XB1A4A-12
15	PB203-ND ‡	3.86	3.39	3.06	W58-XB1A4A-15
20	PB204-ND ‡	3.86	3.39	3.06	W58-XB1A4A-20
25	PB205-ND ‡	3.86	3.39	3.06	W58-XB1A4A-25
30	PB206-ND ‡	3.86	3.39	3.06	W58-XB1A4A-30
Push to Reset Breaker — 6-32 Screw Terminal					
1	PB242-ND †	5.40	4.73	4.28	W58-XC4C12A-1
2	PB243-ND †	5.40	4.73	4.28	W58-XC4C12A-2
3	PB244-ND †	5.40	4.73	4.28	W58-XC4C12A-3
5	PB245-ND †	4.37	3.83	3.46	W58-XC4C12A-5
7	PB246-ND †	4.37	3.83	3.46	W58-XC4C12A-7
10	PB247-ND †	4.37	3.83	3.46	W58-XC4C12A-10
15	PB248-ND †	4.37	3.83	3.46	W58-XC4C12A-15
20	PB249-ND †	4.37	3.83	3.46	W58-XC4C12A-20
25	PB250-ND †	4.37	3.83	3.46	W58-XC4C12A-25
30	PB251-ND †	4.37	3.83	3.46	W58-XC4C12A-30

‡ White button, Red Marking, Red Trip Band
† White button, Black Marking, Red Trip Band

Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
"Push to Reset" disk for panel, use with 6-32 Screw Terminal Types				
PB253-ND	.36	.32	.29	33-012A
"Push to Reset" disk for panel, use with .250 (6.35) QC Terminal Types				
PB254-ND	.41	.36	.33	33-012C
Knurled Nut, Silver Plated, use with .250 (6.35) QC Terminal Types				
PB255-ND	.55	.49	.44	55-010A
Knurled Nut, Black, use with 6-32 Screw Terminal Types				
PB256-ND	.86	.76	.69	55-010E

W23 and W31 Series

Fig. 1 — W23 Series

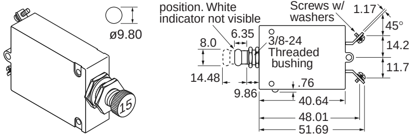
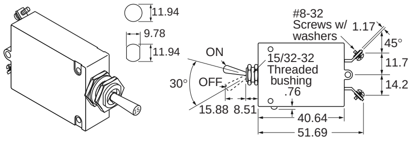


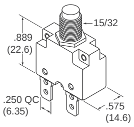
Fig. 2 — W31 Series



Two series of thermal circuit breakers with your choice of push/pull actuation or toggle actuation. W23 series (push/pull) has a visual trip indicator to quickly determine circuit breaker status. W31 series (toggle) offers an On/Off switch combined with circuit protection. Both series have amperage marking on the end of the actuator and 8-32 screw terminals. Single Pole only.
Features: • **Calibration:** Will continuously carry 100% of rating, may trip between 101% and 134% of rating at 25°C. Must trip at 135% in one hour. • **Maximum Operating Voltages:** 50VDC or 250VAC (to 400Hz) • **Dielectric Strength:** Over 1,500 volts RMS • **Endurance Cycling:** More than 6,000 cycles at 100% of rating, or 10,000 mechanical cycles • **Termination:** Two #8-32 screw terminals
Agency Approvals: W23 and W31 are UL 1077 Recognized as Supplementary Protectors. File E69543, and CSA Certified as Appliance Component Protectors, File LR15734

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Fig. 1 — Push/Pull Type					
1	PB399-ND	27.91	24.43	22.10	W23-X1A1G-1
2	PB400-ND	27.91	24.43	22.10	W23-X1A1G-2
3	PB401-ND	27.91	24.43	22.10	W23-X1A1G-3
5	PB402-ND	18.19	15.92	14.41	W23-X1A1G-5
10	PB404-ND	18.19	15.92	14.41	W23-X1A1G-10
15	PB405-ND	18.19	15.92	14.41	W23-X1A1G-15
20	PB406-ND	18.19	15.92	14.41	W23-X1A1G-20
25	PB407-ND	18.19	15.92	14.41	W23-X1A1G-25
30	PB408-ND	18.19	15.92	14.41	W23-X1A1G-30
35	PB409-ND	18.19	15.92	14.41	W23-X1A1G-35
40	PB410-ND	18.19	15.92	14.41	W23-X1A1G-40
50	PB411-ND	18.19	15.92	14.41	W23-X1A1G-50
Fig. 2 — Toggle Type					
1	PB412-ND	32.74	28.65	25.92	W31-X2M1G-1
2	PB413-ND	32.74	28.65	25.92	W31-X2M1G-2
3	PB414-ND	32.74	28.65	25.92	W31-X2M1G-3
5	PB415-ND	22.63	19.81	17.92	W31-X2M1G-5
10	PB417-ND	22.63	19.81	17.92	W31-X2M1G-10
15	PB418-ND	22.63	19.81	17.92	W31-X2M1G-15
20	PB419-ND	22.63	19.81	17.92	W31-X2M1G-20
25	PB420-ND	22.63	19.81	17.92	W31-X2M1G-25
30	PB421-ND	22.63	19.81	17.92	W31-X2M1G-30
35	PB422-ND	22.63	19.81	17.92	W31-X2M1G-35
40	PB423-ND	22.63	19.81	17.92	W31-X2M1G-40
50	PB424-ND	22.63	19.81	17.92	W31-X2M1G-50

NEW! W57 Series Miniature Thermal Breaker



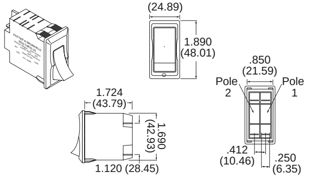
Electrical Data @ 25°C:
- Calibration: Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C. • Maximum Operating Voltages: 50VDC; 125VAC. (Mounting Hardware included.)

Mechanical/Environmental Data:
- Operating Temperature Range: 0°C to +60°C • Termination: .250" quick connects

Agency Approvals: UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States

Description	Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Miniature Circuit Breaker - Push to Reset	5	PB532-ND	1.66	1.45	1.32	W57-XB7A4A10-5
Miniature Circuit Breaker - Push to Reset	10	PB533-ND	1.61	1.41	1.28	W57-XB7A4A10-10
Miniature Circuit Breaker - Push to Reset	15	PB534-ND	1.61	1.41	1.28	W57-XB7A4A10-15
Miniature Circuit Breaker - Push to Reset	20	PB535-ND	2.11	1.85	1.68	W57-XB7A4A10-20

W33 Series

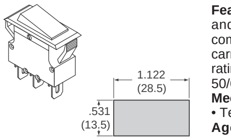


Combination switch and separate circuit breaker in one package. 5-20 Amp versions available in either one circuit breaker with separate switch or 2 circuit breaker option available. Lighted or non-lighted actuator with convenient snap-in mounting. Available in three colors: black, white or amber. Illuminated versions are 120VAC neon lamps. Two breaker models will trip both sides when only 1 side is overdriven. Reset is accomplished with rocker actuator at front of device.

Specifications:
- Breaker will continuously carry 100% of the rated load. It may trip between 101% and 135% of rated load, but must trip at 135% within 1 hour at 25°C • Maximum Operating Voltage: 50VCD, 250VAC

Current (A)	Actuator Color	Pole 1/ Pole 2 Type	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
5	Black	Switch/Breaker	PB257-ND	13.06	11.43	10.34	W33-S1N1Q-5
15	Black	Switch/Breaker	PB259-ND	13.06	11.43	10.34	W33-S1N1Q-15
20	Black	Switch/Breaker	PB260-ND	13.06	11.43	10.34	W33-S1N1Q-20
10	Amber	Switch/Breaker Illuminated	PB261-ND	15.82	13.84	12.53	W33-S4B1Q-10
15	Amber	Switch/Breaker Illuminated	PB262-ND	15.82	13.84	12.53	W33-S4B1Q-15
20	White	2 Breakers	PB263-ND	18.43	16.13	14.60	W33-T2N1Q-20
5	Amber	2 Breakers Illuminated	PB264-ND	20.69	18.11	16.38	W33-T4B1Q-5
10	Amber	2 Breakers Illuminated	PB265-ND	20.69	18.11	16.38	W33-T4B1Q-10
15	Amber	2 Breakers Illuminated	PB266-ND	20.69	18.11	16.38	W33-T4B1Q-15

NEW! W51 Series Rocker/Breaker Combination

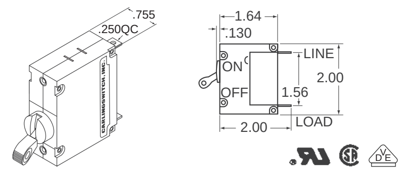


Features: • Compact, trip-free, rocker-actuated design • Provides circuit protection and power switching in a single unit • Snaps into the same cutout as many common power switches **Electrical Data @ 25°C:** • Calibration: Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C. • Maximum Operating Voltages: 50VDC; 125VAC, 50/60Hz • Reset Time: 60 Seconds
Mechanical/Environmental Data: • Operating Temperature Range: 0°C to +60°C • Termination: .250" quick connects • Illumination Voltage: 120VAC
Agency Approvals: UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States

Description	Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Black Body/Red Illuminated Rocker	5	PB528-ND	2.88	2.52	2.28	W51-A121B1-5
Black Body/Red Illuminated Rocker	10	PB529-ND	2.88	2.52	2.28	W51-A121B1-10
Black Body/Red Illuminated Rocker	15	PB530-ND	2.88	2.52	2.28	W51-A121B1-15
Black Body/Red Illuminated Rocker	20	PB531-ND	2.88	2.52	2.28	W51-A121B1-20

Carling Technologies™

Magnetic Circuit Breakers

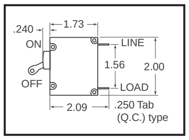


The A-Series hydraulic/magnetic circuit breakers are compact and temperature stable designed for precision operation in OEM markets requiring general purpose as well as full load amp applications.

Specifications: • 10,000 ON-OFF operations @ 6 per minute; with rated current and voltage. All operating actuator moves positively to the OFF position when an overload causes the breaker to trip • Operating Temperature: -40°C to +85°C

Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
10	432-1000-ND	20.51	15.78	11.05	AA1-B0-34-610-3B1-C
15	432-1001-ND	20.51	15.78	11.05	AA1-B0-34-615-3B1-C
20	432-1002-ND	20.51	15.78	11.05	AA1-B0-34-620-3B1-C
30	432-1003-ND	20.51	15.78	11.05	AA1-B0-34-630-3B1-C
10	432-1004-ND	23.53	18.10	12.67	AC1-B0-34-610-131-D
15	432-1005-ND	23.53	18.10	12.67	AC1-B0-34-615-131-D
20	432-1006-ND	23.53	18.10	12.67	AC1-B0-34-620-131-D
30	432-1007-ND	23.53	18.10	12.67	AC1-B0-34-630-131-D

World Market Circuit Breakers

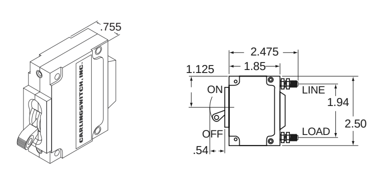


The B-Series hydraulic/magnetic circuit breakers are compact and temperature stable designed for precision operation in OEM markets requiring general purpose as well as full load amp applications.

These circuit breakers are designed specifically for world market applications requiring extra insulation and tongue and groove half-shell constructions.

Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
10	432-1008-ND	18.98	14.60	10.22	BA1-B0-34-610-121-D
15	432-1009-ND	18.98	14.60	10.22	BA1-B0-34-615-121-D
20	432-1010-ND	18.98	14.60	10.22	BA1-B0-34-620-121-D
30	432-1011-ND	20.80	16.00	11.20	BA1-B0-34-630-221-D
10	432-1012-ND	29.84	26.11	22.38	BA2-B0-34-610-121-D
15	432-1013-ND	29.84	26.11	22.38	BA2-B0-34-615-121-D
20	432-1014-ND	29.84	26.11	22.38	BA2-B0-34-620-121-D
30	432-1015-ND	32.08	28.07	24.06	BA2-B0-34-630-221-D

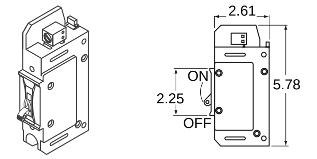
High Voltage Circuit Breakers



The C-Series hydraulic/magnetic circuit breakers are designed for those applications requiring higher amperage and voltage handling capability in a smaller package. The C-Series UL489 circuit breakers employ a unique arc chute design which results in obtaining higher interrupting capacities, up to 10,000 amps.

Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
10	432-1016-ND	23.76	18.28	14.62	CA1-B0-34-610-121-D
15	432-1017-ND	23.76	18.28	14.62	CA1-B0-34-615-121-D
20	432-1018-ND	23.76	18.28	14.62	CA1-B0-34-620-121-D
30	432-1019-ND	23.76	18.28	14.62	CA1-B0-34-630-121-D
10	432-1020-ND	40.06	35.06	30.05	CA2-B0-34-610-121-D
15	432-1021-ND	40.06	35.06	30.05	CA2-B0-34-615-121-D
20	432-1022-ND	40.06	35.06	30.05	CA2-B0-34-620-121-D
30	432-1023-ND	40.06	35.06	30.05	CA2-B0-34-630-121-D

High Current Circuit Breakers



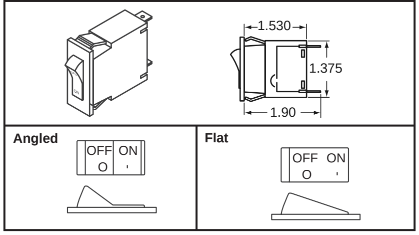
Ideally suited for higher amperage applications. The E-Series is UL LISTED and CSA Certified for Branch Circuit protection which does not require a fuse backup. It is also UL Recognized and CSA Certified as a Supplementary Protector and as a Manual Motor Controller. Front and back mounting, screw terminals or heavy duty box wire connectors

Specifications: • Maximum Voltage: 600VAC or 125 VDC

Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
5	432-1032-ND	28.18	21.68	15.18	EA1-B0-24-450-12A-CC
10	432-1033-ND	28.18	21.68	15.18	EA1-B0-24-610-12A-CC
15	432-1034-ND	28.18	21.68	15.18	EA1-B0-24-615-12A-CC
20	432-1035-ND	28.18	21.68	15.18	EA1-B0-24-620-12A-CC
50	432-1036-ND	28.18	21.68	15.18	EA1-B0-24-650-12A-CC
100	432-1037-ND	32.60	25.08	17.56	EA1-B0-24-810-32C-DC

Rocker Switch Circuit Breakers

The M-Series miniature magnetic circuit breakers are designed for those demanding applications where space, aesthetics and snap-in front panel mounting are important. "Wiping" contact design insures long term reliability. Black body with black actuator with white lettering. **Specifications**: • Maximum Voltage: 250VAC or 65VDC • Operating Temperature: -40°C to +85°C

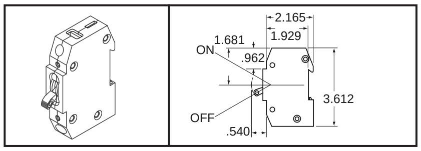


Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Angled Actuator					
5	432-1038-ND	18.14	13.95	11.16	MA1-B-34-450-1A26-B-C
10	432-1039-ND	18.14	13.95	11.16	MA1-B-34-610-1A26-B-C
15	432-1040-ND	18.14	13.95	11.16	MA1-B-34-615-1A26-B-C
20	432-1041-ND	18.14	13.95	11.16	MA1-B-34-620-1A26-B-C
25	432-1042-ND	18.14	13.95	11.16	MA1-B-34-625-1A26-B-C
Flat Actuator					
5	432-1043-ND	18.14	13.95	11.16	MB1-B-34-450-1A26-B-C
10	432-1044-ND	18.14	13.95	11.16	MB1-B-34-610-1A26-B-C
15	432-1045-ND	18.14	13.95	11.16	MB1-B-34-615-1A26-B-C
20	432-1046-ND	18.14	13.95	11.16	MB1-B-34-620-1A26-B-C
25	432-1047-ND	18.14	13.95	11.16	MB1-B-34-625-1A26-B-C

DIN Rail Mount Circuit Breakers

The D-Series hydraulic/magnetic circuit breakers are similar to the C-Series circuit breakers, but designed for snap-on-back panel rail mounting on either a 35mm x 7.5 or 15mm Symmetrical Din Rail.

It features recessed, wire-ready, touch-proof, shock resistant terminals, suitable for automatic screwdriver assembly. Use American Electrical Din Rail series ADR3575 or ADR3515.

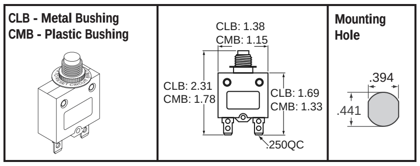


Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
5	432-1024-ND	17.12	14.98	12.84	DA1-B0-34-450-121-C
10	432-1025-ND	17.12	14.98	12.84	DA1-B0-34-610-121-C
15	432-1026-ND	27.82	21.40	17.12	DA1-B0-34-615-121-C
20	432-1027-ND	27.82	21.40	17.12	DA1-B0-34-620-121-C
5	432-1028-ND	44.88	39.27	33.66	DA2-B0-34-450-121-C
10	432-1029-ND	44.88	39.27	33.66	DA2-B0-34-610-121-C
15	432-1030-ND	44.88	39.27	33.66	DA2-B0-34-615-121-C
20	432-1031-ND	44.88	39.27	33.66	DA2-B0-34-620-121-C

Thermal Circuit Breakers

The CMB and CLB Series are compact, single pole, push-to-reset thermal circuit breakers designed to protect equipment. This newest addition to the Carling family of circuit protection products is ideal for: • General household appliances • Commercial appliances • Transportation • Marine • Telecommunications • Power strips • Audio-visual equipment • Medical equipment • Power supplies

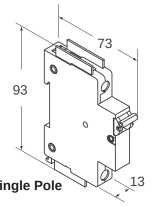
Specifications: • CLB Series comes with push-to-reset disk • Dielectric Strength: 1500 VAC/ 1 minute • Interrupting capacity: 1000 amps • Resettable overload capacity: 10 x rated current • Insulation Resistance: 100M ohms • Operating Temperature: -10°C to +60°C • Voltage drop: <0.25V • Mounting hardware included on CLB only



Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
3	432-1048-ND	2.82	2.54	2.47	CLB-033-11-B-3-A-B-A
4	432-1049-ND	2.82	2.54	2.47	CLB-043-11-B-3-A-B-A
5	432-1050-ND	2.82	2.54	2.47	CLB-053-11-B-3-A-B-A
6	432-1051-ND	2.16	1.95	1.89	CLB-063-11-B-3-A-B-A
7	432-1052-ND	2.16	1.95	1.89	CLB-073-11-B-3-A-B-A
10	432-1053-ND	1.76	1.59	1.54	CLB-103-11-B-3-A-B-A
12	432-1054-ND	1.76	1.59	1.54	CLB-123-11-B-3-A-B-A
13	432-1055-ND	1.76	1.59	1.54	CLB-133-11-B-3-A-B-A
15	432-1056-ND	1.58	1.43	1.39	CLB-153-11-B-3-A-B-A
20	432-1057-ND	1.84	1.66	1.61	CLB-203-11-B-3-A-B-A
25	432-1058-ND	2.20	1.98	1.93	CLB-253-11-B-3-A-B-A
30	432-1059-ND	2.20	1.98	1.93	CLB-303-11-B-3-A-B-A
35	432-1060-ND	2.20	1.98	1.93	CLB-353-11-B-3-A-B-A
40	432-1061-ND	2.74	2.47	2.40	CLB-403-11-B-3-A-B-A
3	432-1062-ND	2.74	2.47	2.40	CMB-033-11-C-3-N-B-A
4	432-1063-ND	2.74	2.47	2.40	CMB-043-11-C-3-N-B-A
5	432-1064-ND	2.74	2.47	2.40	CMB-053-11-C-3-N-B-A
7	432-1066-ND	1.98	1.74	1.49	CMB-073-11-C-3-N-B-A
10	432-1067-ND	2.02	1.82	1.77	CMB-103-11-C-3-N-B-A
12	432-1068-ND	1.66	1.50	1.46	CMB-123-11-C-3-N-B-A
13	432-1069-ND	1.66	1.50	1.46	CMB-133-11-C-3-N-B-A
15	432-1071-ND	1.40	1.26	1.23	CMB-153-11-C-3-N-B-A
16	432-1072-ND	1.48	1.34	1.30	CMB-163-11-C-3-N-B-A
20	432-1073-ND	1.84	1.66	1.61	CMB-203-11-C-3-N-B-A
NEW! Mounting Nut for CMB Series NEW!					
—	432-1123-ND	.36	.33	.26	8T1-E-113

AMERICAN ELECTRICAL INC.

DIN Rail Mounted Circuit Breakers



Single Pole

Features: • UL 1077 Approved • Din Rail Mounted • Compact 13mm width • One, two, three pole • Current rating up to 50A • 100% rating capability • Hydraulic-Magnetic technology

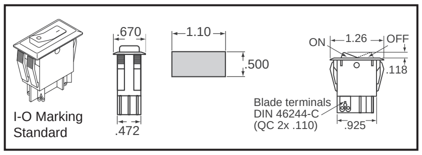
Technical Data: • Number of Poles: 1, 2, 3 • Maximum Voltage: 277/480 50/60 Hz • Minimum Amp Rating: 1 amp • Maximum Amp Rating: 50 amp • Interrupting Cap: 5000A @ 120V, 1000A @ 277V, 1000A @ 480V • Dielectric Strength: 1960V 50/60 Hz • Insulation Resistance: 100 Megaohm • Operating Temperature Range: -40°C to +60°C

Current (Amps)	No. of Poles	Digi-Key Part No.	Price Each 1	10	50	100	American Electrical Part No.
1	1	288-1204-ND	15.00	13.50	12.00	10.50	C1A1P
2	1	288-1205-ND	15.00	13.50	12.00	10.50	C2A1P
5	1	288-1206-ND	15.00	13.50	12.00	10.50	C5A1P
10	1	288-1207-ND	15.00	13.50	12.00	10.50	C10A1P
15	1	288-1208-ND	15.00	13.50	12.00	10.50	C15A1P
20	1	288-1209-ND	15.00	13.50	12.00	10.50	C20A1P
25	1	288-1210-ND	15.00	13.50	12.00	10.50	C25A1P
30	1	288-1211-ND	15.00	13.50	12.00	10.50	C30A1P
40	1	288-1212-ND	15.00	13.50	12.00	10.50	C40A1P
50	1	288-1213-ND	15.00	13.50	12.00	10.50	C50A1P
1	2	288-1214-ND	30.00	27.00	24.00	21.00	C1A2P
2	2	288-1215-ND	30.00	27.00	24.00	21.00	C2A2P
5	2	288-1216-ND	30.00	27.00	24.00	21.00	C5A2P
10	2	288-1217-ND	30.00	27.00	24.00	21.00	C10A2P
15	2	288-1218-ND	30.00	27.00	24.00	21.00	C15A2P
20	2	288-1219-ND	30.00	27.00	24.00	21.00	C20A2P
25	2	288-1220-ND	30.00	27.00	24.00	21.00	C25A2P
30	2	288-1221-ND	30.00	27.00	24.00	21.00	C30A2P
40	2	288-1222-ND	30.00	27.00	24.00	21.00	C40A2P
50	2	288-1223-ND	30.00	27.00	24.00	21.00	C50A2P
1	3	288-1224-ND	45.00	40.50	36.00	31.50	C1A3P
2	3	288-1225-ND	45.00	40.50	36.00	31.50	C2A3P
5	3	288-1226-ND	45.00	40.50	36.00	31.50	C5A3P
10	3	288-1227-ND	45.00	40.50	36.00	31.50	C10A3P
15	3	288-1228-ND	45.00	40.50	36.00	31.50	C15A3P
20	3	288-1229-ND	45.00	40.50	36.00	31.50	C20A3P
25	3	288-1230-ND	45.00	40.50	36.00	31.50	C25A3P
30	3	288-1231-ND	45.00	40.50	36.00	31.50	C30A3P
40	3	288-1232-ND	45.00	40.50	36.00	31.50	C40A3P
50	3	288-1233-ND	45.00	40.50	36.00	31.50	C50A3P

ETA circuit breakers for equipment are designed as safety critical items for protection during equipment failure. These circuit breakers may be required to operate just occasionally or very often during the life of the equipment and can confidently be reset by inexperienced personnel.

Thermal breakers respond in a similar manner as a slow blow fuse. All thermal breakers carry 100% rated current continuously and trip within one hour at 140% rating. Selection should be based on 125% of your maximum current required. Magnetic breakers are fast-acting devices which are highly tolerant to changes in ambient temperatures and sensitive to small overloads.

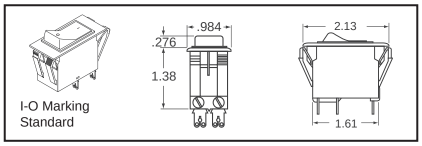
Combination Rocker/Breaker Switches



Miniaturized single pole rocker/thermal circuit breaker combining ON/OFF switching and extremely fast overload performance in a single component. Returning the rocker switch through the OFF position and back ON will reset the mechanism and restore the supply. Illuminated versions – 120VAC lamp **Applications:** Motors, transformers, solenoids, PCBs, hand-held machines, appliances, instrumentation. **Voltage rating:** AC 250V; DC 48 up to 10A UL/CSA **Typical life:** 30,000 operation cycles **Ambient temperature:** -40°C to +70°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 3,000V

Current (Amps)	Digi-Key Part No.	Price Each			ETA Part No.
		1	10	25	
SP, Red Non-Illuminated Actuator					
1	302-1164-ND	13.59	12.85	12.35	1410-F110-P1F1-W14Q-1A
2	302-1165-ND	13.59	12.85	12.35	1410-F110-P1F1-W14Q-2A
3.15	302-1166-ND	13.59	12.85	12.35	1410-F110-P1F1-W14Q-3.15A
4	302-1167-ND	13.59	12.85	12.35	1410-F110-P1F1-W14Q-4A
5	302-1168-ND	13.59	12.85	12.35	1410-F110-P1F1-W14Q-5A
10	302-1169-ND	13.59	12.85	12.35	1410-F110-P1F1-W14Q-10A
SP, Red Illuminated Actuator					
1	302-1170-ND	15.13	14.30	13.75	1410-F110-P1F1-W14QE3-1A
2	302-1171-ND	15.13	14.30	13.75	1410-F110-P1F1-W14QE3-2A
3.15	302-1172-ND	15.13	14.30	13.75	1410-F110-P1F1-W14QE3-3.15A
4	302-1173-ND	15.13	14.30	13.75	1410-F110-P1F1-W14QE3-4A
5	302-1174-ND	15.13	14.30	13.75	1410-F110-P1F1-W14QE3-5A
10	302-1175-ND	15.13	14.30	13.75	1410-F110-P1F1-W14QE3-10A

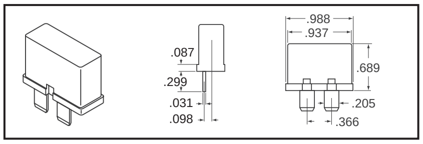
Combination Rocker/Breaker Switches



An extremely versatile range of rocker switch/thermal circuit breakers offering the choice of single pole, double pole with single pole protection, and double pole with protection on both poles. Designed for snap-in panel mounting. Magnetic trip coil for short circuit protection. **Applications:** Motors, transformers, solenoids, extra low voltage wiring systems, office machines, electro-medical equipment, power supplies, communications systems. **Voltage rating:** AC 240V; DC 50V **Typical life:** 50,000 operation cycles **Ambient temperature:** -30°C to +60°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 3,000V

Current (Amps)	Digi-Key Part No.	Price Each			ETA Part No.
		1	10	25	
Single Pole, Black Actuator					
1	302-1176-ND	17.90	17.16	16.42	3120-F311-P7T1-W01D-1A
2	302-1177-ND	17.90	17.16	16.42	3120-F311-P7T1-W01D-2A
5	302-1178-ND	14.59	13.99	13.38	3120-F311-P7T1-W01D-5A
10	302-1179-ND	14.59	13.99	13.38	3120-F311-P7T1-W01D-10A
15	302-1180-ND	14.59	13.99	13.38	3120-F311-P7T1-W01D-15A
20	302-1181-ND	14.59	13.99	13.38	3120-F311-P7T1-W01D-20A
Single Pole, White Actuator					
1	302-1182-ND	17.90	17.16	16.42	3120-F311-P7T1-W02D-1A
2	302-1183-ND	17.90	17.16	16.42	3120-F311-P7T1-W02D-2A
5	302-1184-ND	14.59	13.99	13.38	3120-F311-P7T1-W02D-5A
10	302-1185-ND	14.59	13.99	13.38	3120-F311-P7T1-W02D-10A
15	302-1186-ND	14.59	13.99	13.38	3120-F311-P7T1-W02D-15A
20	302-1187-ND	14.59	13.99	13.38	3120-F311-P7T1-W02D-20A
Double Pole, Black Actuator					
.5	302-1188-ND	32.69	31.33	29.97	3120-F321-P7T1-W01D-.5A
1	302-1189-ND	32.69	31.33	29.97	3120-F321-P7T1-W01D-1A
1.5	302-1190-ND	32.69	31.33	29.97	3120-F321-P7T1-W01D-1.5A
2	302-1191-ND	32.69	31.33	29.97	3120-F321-P7T1-W01D-2A
2.5	302-1192-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-2.5A
3	302-1193-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-3A
4	302-1194-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-4A
5	302-1195-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-5A
6	302-1196-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-6A
7	302-1197-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-7A
8	302-1198-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-8A
9	302-1199-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-9A
10	302-1200-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-10A
12	302-1201-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-12A
14	302-1202-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-14A
15	302-1203-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-15A
16	302-1204-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-16A
18	302-1205-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-18A
20	302-1206-ND	28.32	27.14	25.96	3120-F321-P7T1-W01D-20A
Double Pole, White Actuator					
.5	302-1207-ND	32.69	31.33	29.97	3120-F321-P7T1-W02D-.5A
1	302-1208-ND	32.69	31.33	29.97	3120-F321-P7T1-W02D-1A
1.5	302-1209-ND	32.69	31.33	29.97	3120-F321-P7T1-W02D-1.5A
2	302-1210-ND	32.69	31.33	29.97	3120-F321-P7T1-W02D-2A
2.5	302-1211-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-2.5A
3	302-1212-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-3A
4	302-1213-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-4A
5	302-1214-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-5A
6	302-1215-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-6A
7	302-1216-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-7A
8	302-1217-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-8A
9	302-1218-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-9A
10	302-1219-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-10A
12	302-1220-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-12A
14	302-1221-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-14A
15	302-1222-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-15A
16	302-1223-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-16A
18	302-1224-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-18A
20	302-1225-ND	28.32	27.14	25.96	3120-F321-P7T1-W02D-20A
Double Pole, Orange Actuator					
5	302-1226-ND	28.32	27.14	25.96	3120-F321-P7T1-W15D-5A
10	302-1227-ND	28.32	27.14	25.96	3120-F321-P7T1-W15D-10A
15	302-1228-ND	28.32	27.14	25.96	3120-F321-P7T1-W15D-15A

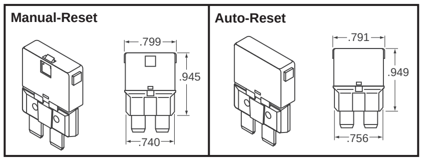
Auto and Marine Thermal Breakers



Thermal circuit breaker, with controlled self-resetting mechanism, specially suited to installation in inaccessible locations. Under overload conditions the circuit breaker contacts will open to protect the load circuit. A low current excitation circuit ensures that the contacts remain open avoiding the hazards of automatic reset operation. **Applications:** Automotive and marine extra low voltage wiring systems and components, battery powered appliances. **Voltage rating:** DC 12V **Typical life:** 300 operations cycles **Ambient temperature:** -30°C to +60°C **Holding current:** < 0.6A **Reset time at 23°C:** <35 sec.

Current (Amps)	Digi-Key Part No.	Price Each			ETA Part No.
		1	10	25	
12	302-1229-ND	11.99	11.34	10.90	1160-02-12A
15	302-1230-ND	11.99	11.34	10.90	1160-02-15A
20	302-1231-ND	11.99	11.34	10.90	1160-02-20A
30	302-1232-ND	11.99	11.34	10.90	1160-02-30A

ATO Automotive Breakers

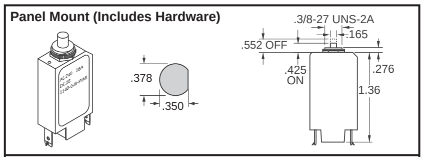


Miniaturized single pole press-to-reset and automatic reset thermal circuit breaker designed for automotive fuse block installation. **Applications:** Extra low voltage wiring systems on all types of vehicles and marine craft. **Voltage rating:** 1610-92:DC 12V, 1610-21:DC 28V **Reset period:** ≤15 s **Ambient temperature:** -30°C to +60°C

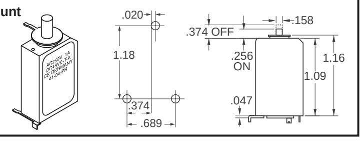
Current (Amps)	Digi-Key Part No.	Price Each			ETA Part No.
		1	10	25	
Manual Reset ATO Breaker					
6	302-1236-ND	14.11	13.34	12.83	1610-21-6A
8	302-1235-ND	14.11	13.34	12.83	1610-21-8A
10	302-1237-ND	14.11	13.34	12.83	1610-21-10A
15	302-1234-ND	14.11	13.34	12.83	1610-21-15A
20	302-1233-ND	14.11	13.34	12.83	1610-21-20A
25	302-1238-ND	14.11	13.34	12.83	1610-21-25A
30	302-1239-ND	14.11	13.34	12.83	1610-21-30A
Auto Reset ATO Breaker					
6	302-1240-ND	14.11	13.34	12.83	1610-92-6A
8	302-1241-ND	14.11	13.34	12.83	1610-92-8A
10	302-1242-ND	14.11	13.34	12.83	1610-92-10A
15	302-1243-ND	14.11	13.34	12.83	1610-92-15A
20	302-1244-ND	14.11	13.34	12.83	1610-92-20A
25	302-1245-ND	14.11	13.34	12.83	1610-92-25A
30	302-1246-ND	14.11	13.34	12.83	1610-92-30A

Thermal Circuit Breakers

Panel Mount (Includes Hardware)



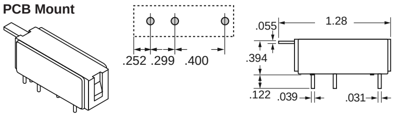
PCB Mount



Miniaturized single pole thermal circuit breaker with push-to-reset tease free, trip-free, snap action mechanism. Approved to CBE standard EN 60934 (IEC 60934). Single pole, push to reset, medium delay and black in color. **Applications:** motors, transformers, solenoids, printed circuit boards, hand-held machines and appliances, marine applications, caravans. **Voltage rating:** AC 240V; DC 48V **Ambient temperature:** -20°C to +60°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 3,000V

Current (Amps)	Digi-Key Part No.	Price Each			ETA Part No.
		1	10	25	
Thermal Breaker - Miniature Panel Mount					
0.1	302-1000-ND	12.16	11.50	11.05	106-M2-P10-0.1A
0.2	302-1001-ND	12.16	11.50	11.05	106-M2-P10-0.2A
0.3	302-1002-ND	12.16	11.50	11.05	106-M2-P10-0.3A
0.4	302-1003-ND	12.16	11.50	11.05	106-M2-P10-0.4A
0.5	302-1004-ND	12.16	11.50	11.05	106-M2-P10-0.5A
0.6	302-1005-ND	12.16	11.50	11.05	106-M2-P10-0.6A
0.8	302-1006-ND	12.16	11.50	11.05	106-M2-P10-0.8A
1	302-1007-ND	12.16	11.50	11.05	106-M2-P10-1A
1.2	302-1008-ND	12.16	11.50	11.05	106-M2-P10-1.2A
1.5	302-1009-ND	12.16	11.50	11.05	106-M2-P10-1.5A
1.8	302-1010-ND	12.16	11.50	11.05	106-M2-P10-1.8A
2	302-1011-ND	12.16	11.50	11.05	106-M2-P10-2A
2.5	302-1012-ND	12.16	11.50	11.05	106-M2-P10-2.5A
3	302-1013-ND	12.16	11.50	11.05	106-M2-P10-3A
4	302-1015-ND	12.16	11.50	11.05	1140-G111-P1M1-4A
5	302-1016-ND	12.16	11.50	11.05	1140-G111-P1M1-5A
7	302-1018-ND	12.16	11.50	11.05	1140-G111-P1M1-7A
8	302-1019-ND	12.16	11.50	11.05	1140-G111-P1M1-8A
10	302-1020-ND	12.16	11.50	11.05	1140-G111-P1M1-10A
12	302-1021-ND	12.16	11.50	11.05	1140-G111-P1M1-12A
15	302-1023-ND	12.16	11.50	11.05	1140-G111-P1M1-15A
16	302-1024-ND	12.16	11.50	11.05	1140-G111-P1M1-16A
Thermal Breaker - Horizontal PC Mount					
0.1	302-1088-ND	12.16	11.50	11.05	104-PR-0.1A
0.2	302-1089-ND	12.16	11.50	11.05	104-PR-0.2A
0.3	302-1090-ND	12.16	11.50	11.05	104-PR-0.3A
0.4	302-1091-ND	12.16	11.50	11.05	104-PR-0.4A
0.5	302-1092-ND	12.16	11.50	11.05	104-PR-0.5A
0.6	302-1093-ND	12.16	11.50	11.05	104-PR-0.6A
0.8	302-1094-ND	12.16	11.50	11.05	104-PR-0.8A
1	302-1095-ND	12.16	11.50	11.05	104-PR-1A
1.2	302-1096-ND	12.16	11.50	11.05	104-PR-1.2A
1.5	302-1097-ND	12.16	11.50	11.05	104-PR-1.5A
1.8	302-1098-ND	12.16	11.50	11.05	104-PR-1.8A
2	302-1099-ND	12.16	11.50	11.05	104-PR-2A
2.5	302-1100-ND	12.16	11.50	11.05	104-PR-2.5A
3	302-1101-ND	12.16	11.50	11.05	104-PR-3A
5	302-1105-ND	12.16	11.50	11.05	104-PR-5A
6	302-1106-ND	12.16	11.50	11.05	104-PR-6A
7	302-1107-ND	12.16	11.50	11.05	104-PR-7A
8	302-1108-ND	12.16	11.50	11.05	104-PR-8A
10	302-1109-ND	12.16	11.50	11.05	104-PR-10A

PCB Mount



Single pole press-to-reset thermal circuit breaker with extremely fast overload switching performance. Miniaturized construction minimizes PCB real estate required. **Applications:** transformers, solenoids, PCB's, hand-held machines, appliances, instrumentation. **Voltage rating:** AC 250V; DC 50V UL/CSA **Typical Life:** 300 operation cycles **Ambient temperature:** -20°C to +100°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 1,500V

Current (Amps)	Digi-Key Part No.	Price Each			ETA Part No.
		1	10	25	
Thermal Breaker - Horizontal PC Mount					
0.63	302-1025-ND	8.33	7.88	7.58	1410L210L2F1S020.63A
0.80	302-1026-ND	8.33	7.88	7.58	1410L210L2F1S020.80A
1	302-1027-ND	8.33	7.88	7.58	1410L210L2F1S021A
1.25	302-1028-ND	8.33	7.88	7.58	1410L210L2F1S021.25A
1.5	302-1029-ND	8.33	7.88	7.58	1410L210L2F1S021.5A
1.8	302-1030-ND	8.33	7.88	7.58	1410L210L2F1S021.8A
2	302-1032-ND	8.33	7.88	7.58	1410L210L2F1S022A
2.5	302-1033-ND	8.33	7.88	7.58	1410L210L2F1S022.5A
3.15	302-1034-ND	8.33	7.88	7.58	1410L210L2F1S023.15A
4	302-1035-ND	8.33	7.88	7.58	1410L210L2F1S024A
4.5	302-1036-ND	8.33	7.88	7.58	1410L210L2F1S024.5A
5	302-1037-ND	8.33	7.88	7.58	1410L210L2F1S025A
6.3	302-1038-ND	8.33	7.88	7.58	1410L210L2F1S026.3A
8	302-1039-ND	8.33	7.88	7.58	1410L210L2F1S028A
10	302-1031-ND	8.33	7.88	7.58	1410L210L2F1S0210A

Panasonic Thermal Cutoffs (TCO) / Thermal-Links — EYP Type

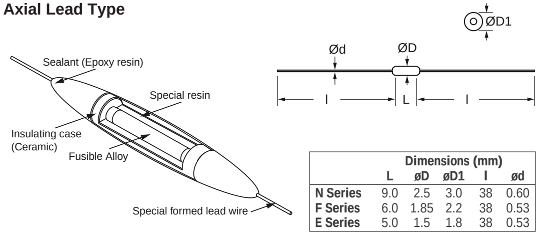
Features: • **Small and Insulation Type:** TCO is compact and insulated, featuring quick temperature response, and mountable in a small space without insulation or protection • **High Reliability:** TCO opens reliably when the equipment becomes abnormal, and is not resettable • **Solid Structure:** Unique formed lead provides reliable TCO connection and provides easy assembly handling. (Axial lead type only) • **Non-Cadmium Alloy:** TCO uses specially selected non-cadmium alloy • **Thin Type:** Thickness is less than 1mm. Available for spot welding.

Recommended Applications: Transformers, solenoids, ventilation fan, electric fans, small electric motors, dryers, gas home appliances, fluorescent lights, electric shavers, adaptors, heating devices, ICs, batteries, etc. The TCO can be used for overheating protection.

Approved Safety Standards:

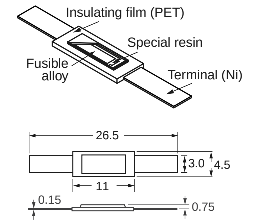
▽ (Japan): 33-xxx (see chart)
UL (USA): E60271
CSA (Canada): LR67163
VDE (Germany): N Series: 4811.6-1171-0001; F Series: 4811.6-4510-1026; E Series: 4811.6-4510-1030
BEAB (U.K.): N Series: C0736; F Series: C0738; E Series: C0739

Series N, F and E Axial Lead Type



Dimensions (mm)	L	øD	øD1	l	ød
N Series	9.0	2.5	3.0	38	0.60
F Series	6.0	1.85	2.2	38	0.53
E Series	5.0	1.5	1.8	38	0.53

Series MT — Thin Type



Type No. of Approved Standards	Rated Functioning Temp.*1 (°C)	Functioning Temp.*2 (°C)	Maximum Operating Temp.*3 (°C)	Holding Temp.*4 (°C)	Maximum Temp. (°C)*5 UL, VDE, BEAB	Maximum Temp. (°C)*5 CSA	Electrical Rating AC/DC	Electrical Rating Amp (A)	Electrical Rating Volt (V)	Approved Safety Standards ▽	Approved Safety Standards UL	Approved Safety Standards CSA	Approved Safety Standards VDE	Approved Safety Standards BEAB	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Panasonic Part No.
N Series																			
N082	86	82±2	52	56	200	150	AC	3.0	125	33-627	○	○	○	—	P10917-ND	.45	.41	.38	EYP-2BN082
			60	60			AC	2.0	250		○	○	○	○					
			45	50			DC	4.0	50		○	○	○	—					
N088	92	88±2	56	60	200	—	AC	3.0	125	33-627	○	—	—	—	P10918-ND	.45	.41	.38	EYP-2BN088
			62	65			AC	2.0	250		○	—	—	—					
			47	52			DC	4.0	50		○	—	—	—					
N098	102	98±2	65	70	200	150	AC	3.0	125	33-632	○	○	○	—	P10919-ND	.45	.41	.38	EYP-2BN098
			75	76			AC	2.0	250		○	○	○	○					
			55	60			DC	4.0	50		○	○	○	—					
N109	114	110±3	76	86	200	150	AC	3.0	125	33-634	○	○	○	—	P10920-ND	.45	.41	.38	EYP-2BN109
			80	90			AC	2.0	250		○	○	○	○					
			65	74			DC	5.0	50		○	○	○	—					
N110	115	110^{+3}_{-2}	76	86	200	150	AC	3.0	125	33-634	○	○	○	—	P10921-ND	.45	.41	.38	EYP-2BN110
			80	90			AC	2.0	250		○	○	○	—					
			65	74			DC	5.0	50		○	○	○	—					
N124	130	126±2	90	105	200	180	AC	3.0	125	33-619	○	○	○	—	P10922-ND	.45	.41	.38	EYP-2BN124
			94	105			AC	2.0	250		○	○	○	○					
			80	94			DC	5.0	50		○	○	○	—					
N126	133	128±2	92	108	200	180	AC	3.0	125	33-619	○	○	○	—	P10923-ND	.45	.41	.38	EYP-2BN126
			96	108			AC	2.0	250		○	○	○	○					
			82	96			DC	5.0	50		○	○	○	—					
N135	140	136±2	99	115	200	180	AC	3.0	125	33-619	○	○	○	—	P10924-ND	.45	.41	.38	EYP-2BN135
			103	115			AC	2.0	250		○	○	○	○					
			80	90			DC	6.0	50		○	○	○	—					
N143	145	141±2	105	115	200	180	AC	3.0	125	33-621	○	○	○	—	P10925-ND	.45	.41	.38	EYP-2BN143
			110	120			AC	2.0	250		○	○	○	○					
			80	90			DC	6.0	50		○	○	○	—					
N163	168	163^{+4}_{-2}	120	130	200		AC	3.0	125	33-623	○	○	○	—	P10926-ND	.45	.41	.38	EYP-2BN163
			120	135			AC	2.0	250		○	○	○	○					
			90	100			DC	6.0	50		○	○	○	—					
N183	188	183^{+4}_{-2}	120	140	200		AC	3.0	125	33-625	○	○	○	—	P10927-ND	.45	.41	.38	EYP-2BN183
			120	140			AC	2.0	250		○	○	○	○					
			120	130			DC	6.0	50		○	○	○	—					
F Series																			
F102	102	98±2	70	74	200	150	AC	2.0	125	33-632	○	○	○	—	P10911-ND	.45	.41	.38	EYP-1BF102
			75	76			AC	1.0	250		○	○	○	○					
			55	60			DC	3.5	50		○	○	○	—					
F115	115	110^{+3}_{-2}	76	90	200	150	AC	2.0	125	33-634	○	○	○	—	P10912-ND	.45	.41	.38	EYP-1BF115
			80	90			AC	1.0	250		○	○	○	○					
			70	80			DC	4.0	50		○	○	○	—					
F130	130	126±2	90	105	200	180	AC	2.0	125	33-619	○	○	○	—	P10913-ND	.45	.41	.38	EYP-1BF130
			94	105			AC	1.0	250		○	○	○	○					
			74	90			DC	4.5	50		○	○	○	—					
F133	133	128±2	92	108	200	180	AC	2.0	125	33-619	○	○	○	—	P10914-ND	.45	.41	.38	EYP-1BF133
			96	108			AC	1.0	250		○	○	○	○					
			76	92			DC	4.5	50		○	○	○	—					
F139	139	135±3	99	115	200	180	AC	2.0	125	33-619	○	○	○	—	P10915-ND	.45	.41	.38	EYP-1BF139
			103	115			AC	1.0	250		○	○	○	○					
			80	95			DC	5.0	50		○	○	○	—					
F168	168	163^{+4}_{-2}	120	135	200		AC	2.0	125	33-623	○	○	○	—	P10916-ND	.45	.41	.38	EYP-1BF168
			120	142			AC	1.0	250		○	○	○	—					
			95	110			DC	5.0	50		○	○	○	—					
E Series																			
E102	102	98±2	70	78	200	150	AC	1.5	125	33-632	○	○	○	—	P10906-ND	.45	.41	.38	EYP-05BE102
			75	80			AC	0.5	250		○	○	○	○					
			65	70			DC	3.0	50		○	○	○	—					
E115	115	110±2	76	93	200	150	AC	1.5	125	33-634	○	○	○	—	P10907-ND	.45	.41	.38	EYP-05BE115
			80	95			AC	0.5	250		○	○	○	○					
			70	84			DC	3.0	50		○	○	○	—					
E130	130	126±2	90	112	200	180	AC	1.5	125	33-619	○	○	○	—	P10908-ND‡	.45	.41	.38	EYP-05BE130
			94	112			AC	0.5	250		○	○	○	○					
			83	102			DC	3.0	50		○	○	○	—					
E133	133	128±2	92	115	200	180	AC	1.5	125	33-619	○	○	○	—	P10909-ND	.45	.41	.38	EYP-05BE133
			96	115			AC	0.5	250		○	○	○	○					
			85	105			DC	3.0	50		○	○	○	—					
E139	139	135±3	99	120	200	180	AC	1.5	125	33-619	○	○	○	—	P10910-ND‡	.45	.41	.38	EYP-05BE139
			103	120			AC	0.5	250		○	○	○	○					
			92	110			DC	3.0	50		○	○	○	—					
MT Series †																			
MT092	92	89±2	55	60	150		DC	2.0	50	—	○	—	—	—	P10928-ND	.89	.82	.75	EYP-2MT092
MT092A															P10929-ND	.89	.82	.75	EYP-2MT092A
MT092B															P10930-ND	.89	.82	.75	EYP-2MT092B
MT098	98	94±2	60	65	150		DC	2.0	50	—	○	—	—	—	P10931-ND	.89	.82	.75	EYP-2MT098
MT098A															P10932-ND	.89	.82	.75	EYP-2MT098A
MT098B															P10933-ND	.89	.82	.75	EYP-2MT098B
MT102	102	98±2	65	70	150		DC	2.0	50	—	○	—	—	—	P10934-ND	.89	.82	.75	EYP-2MT102
MT102A															P10935-ND	.89	.82	.75	EYP-2MT102A
MT102B															P10936-ND	.89	.82	.75	EYP-2MT102B

NOTES:

1. **Rated Functioning Temperature** (UL: TF, CSA, VDE, BEAB: Tf). The temperature at which a TCO changes its state of conductivity to open circuit with loading detection current only. Tolerance: ▽ : ±7°C; UL, CSA, VDE, BEAB: 0 / -10°C
2. **Functioning Temperature** (Fusing-off temperature): The functioning temperature at which a TCO changes its state of conductivity to open circuit in the ambient air oven which increases temperature by 1°C per minute and with loading the detective current 0.1A or less.
3. **Maximum Operating Temperature:** The maximum temperature at which a TCO can be maintained while conducting rated current for 3000 h.
4. **Holding Temperature** (UL: TH, CSA: Th, VDE, BEAB: Tc). The maximum temperature at which a TCO can be maintained while conducting rated current for 168h which will not cause a change in state of conductivity to open circuit.
5. **Maximum Temperature Limit** (UL: TM, CSA, VDE, BEAB: Tm) The maximum temperature at which a TCO can maintain its mechanical and electrical properties without closing again for 10 minutes after a TCO has changed its state of conductivity.

‡ P10908-ND and P10910-ND are additionally approved for UL, on DC50V 5A.
† Std. DC Resistance is <15mΩ, A = <16mΩ, B = <17mΩ.

Digi-Key® Potentiometer Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Bourns 3/4" (19.05mm) Rectangular 15-Turn		
10 each of 15 popular values (150 total pieces)	3006P-KIT-ND	159.00
Bourns 3/8" (9.52mm) Square 25-Turn		
3296P Series - 5 each of values denoted (75 total pieces)	3296P-KIT-ND	139.00
3296W Series - 5 each of values denoted (75 total pieces)	3296W-KIT-ND	139.00
3296X Series - 5 each of values denoted (75 total pieces)	3296X-KIT-ND	139.00
3296Y Series - 5 each of values denoted (75 total pieces)	3296Y-KIT-ND	139.00
3296Z Series - 5 each of values denoted (75 total pieces)	3296Z-KIT-ND	139.00
Bourns 3/8" (9.52mm) Square Single-Turn		
3386C Series - 5 each of values denoted (75 total pieces)	3386C-KIT-ND	65.95
3386F Series - 5 each of values denoted (75 total pieces)	3386F-KIT-ND	65.95
3386P Series - 5 each of values denoted (75 total pieces)	3386P-KIT-ND	65.95
3386R Series - 5 each of values denoted (75 total pieces)	3386R-KIT-ND	65.95
3386X Series - 5 each of values denoted (75 total pieces)	3386X-KIT-ND	65.95
Bourns 1/2" (12.70mm) Square 25-Turn		
5 each of 18 popular values (90 total pieces)	3252-KIT-ND	599.00
Bourns 1/4" (6.35mm) Square Cermet 12-Turn		
3266W Series - 5 each of values denoted (85 total pieces)	3266W-KIT-ND	199.00
3266X Series - 5 each of values denoted (85 total pieces)	3266X-KIT-ND	199.00
Bourns 1/4" (6.35mm) Square Cermet Single-Turn		
3362H Series - 10 each of 14 popular values (140 total pieces)	3362H-KIT-ND	89.95
3362M Series - 10 each of 14 popular values (140 total pieces)	3362M-KIT-ND	89.95
3362R Series - 10 each of 14 popular values (140 total pieces)	3362R-KIT-ND	89.95
3362U Series - 10 each of 14 popular values (140 total pieces)	3362U-KIT-ND	89.95
3362X Series - 10 each of 14 popular values (140 total pieces)	3362X-KIT-ND	89.95
Bourns 9mm Round Cermet Single-Turn		
10 each of values denoted (180 total pieces)	3309-KIT-ND	69.95
Bourns 1/4" (6.35mm) Round Cermet Single-Turn		
3329H Series - 5 each of 14 popular values (70 total pieces)	3329H-KIT-ND	129.95
3329P Series - 5 each of 14 popular values (70 total pieces)	3329P-KIT-ND	129.95
3329S Series - 5 each of 14 popular values (70 total pieces)	3329S-KIT-ND	129.95
3329W Series - 5 each of 14 popular values (70 total pieces)	3329W-KIT-ND	129.95
3329X Series - 5 each of 14 popular values (70 total pieces)	3329X-KIT-ND	129.95
Bourns 5/16" (7.95mm) Round Cermet 4-Turn		
3339P Series - 5 each of 14 popular values (70 total pieces)	3339P-KIT-ND	269.00
3339W Series - 5 each of 14 popular values (70 total pieces)	3339W-KIT-ND	269.00
Bourns 3/8" (9.52mm) Round Cermet Single-Turn		
3352E Series - 5 each of 15 popular values (75 total pieces)	3352E-KIT-ND	49.95
3352H Series - 5 each of 15 popular values (75 total pieces)	3352H-KIT-ND	49.95
3352P Series - 5 each of 15 popular values (75 total pieces)	3352P-KIT-ND	49.95
3352T Series - 5 each of 15 popular values (75 total pieces)	3352T-KIT-ND	49.95
3352W Series - 5 each of 15 popular values (75 total pieces)	3352W-KIT-ND	49.95
Bourns 1/2" (12.70mm) Round Wirewound Single-Turn		
5 each of 9 popular values (45 total pieces)	3345P-KIT-ND	199.95
Bourns SMD 4mm Square. Cermet Single-Turn Open Frame		
5 each of 11 popular values (55 total pieces)	3364W-KIT-ND	35.95
CTS 1/4 Watt Carbon Linear Taper		
270 Series, With Switch - 5 each of 8 values (40 total pieces)	270-A-KIT-ND	109.95
270 Series, Without Switch - 5 each of 8 values (40 total pieces)	270-B-KIT-ND	89.95
CTS 1/4 Watt Carbon Logarithmic Taper		
270 Series, With Switch - 5 each of 8 values (40 total pieces)	270-C-KIT-ND	109.95
270 Series, Without Switch - 5 each of 8 values (40 total pieces)	270-D-KIT-ND	89.95
CTS 1/8 Watt Carbon		
296 Series, Top Adjust - 5 each of 11 values (55 total pieces)	296U-KIT-ND	59.95
296 Series, Side Adjust - 5 each of 11 values (55 total pieces)	296X-KIT-ND	59.95
CTS 5 Watt Wirewound		
026 Series - 5 each of 7 values (35 total pieces)	26-KIT-ND	99.95
CTS 1/4 Watt Trimmer		
201 Series, Top Adjust - 5 each of 13 values (65 total pieces)	201U-KIT-ND	29.95
201 Series, Side Adjust - 5 each of 13 values (65 total pieces)	201X-KIT-ND	29.95
CTS .15 Watt Trimmer		
262 Series, Top Adjust - 5 each of 11 values (55 total pieces)	U262-KIT-ND	27.95
262 Series, Side Adjust - 5 each of 11 values (55 total pieces)	X262-KIT-ND	27.95
Keystone Thermistors		
PTC - 2 each of 10 popular thermistors (20 total pieces)	KCPTC1-KIT-ND	37.95
NTC - 2 each of 15 popular thermistors (30 total pieces)	KCNTC-KIT-ND	39.95
Panasonic 6mm Carbon Trimmer, Laydown and Standup Version		
10 each of 14 popular values (140 pieces)	DXA-KIT-ND	29.95
Panasonic 6mm Cermet Dust-Proof		
Both Sides Adjust - 10 each of 13 popular values (130 total pieces)	31G-KIT-ND	52.95
Vertical Both Sides Adjust - 10 each of 13 popular values (130 total pieces)	36G-KIT-ND	52.95

Digi-Key® Thermistor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic SMT Trimmer		
P1S Series - 10 each of 12 values (120 total pieces)	P1S-KIT-ND	43.95
P1D Series - 10 each of 13 values (130 total pieces)	P1D-KIT-ND	43.95
P1E Series - 10 each of 13 values (130 total pieces)	P1E-KIT-ND	43.95
P7J Series - 10 each of 15 values (150 total pieces)	P7J-KIT-ND	59.95

Digi-Key® Resistor Kits

Conveniently packaged
into bags per value.

Description	Digi-Key Part No.	Price Each
BC Component 1% Metal Film, .40 Watt, 5043ED Series		
5 each of values 10.0 ohm to 97.6 ohm (495 total pieces)	BCY1-KIT-ND	34.95
5 each of values 100 ohm to 976 ohm (490 total pieces)	BCY2-KIT-ND	34.95
5 each of values 1.00K ohm to 9.76K ohm (485 total pieces)	BCY3-KIT-ND	34.95
5 each of values 10.0K ohm to 97.6K ohm (490 total pieces)	BCY4-KIT-ND	34.95
5 each of values 100K ohm to 2.00M ohm (655 total pieces)	BCY5-KIT-ND	46.95
BC Component 1% Metal Film, .40 Watt, 5063JD "Spacemiser" Series		
5 each of values 10.0 ohm to 97.6 ohm (480 total pieces)	BCX1-KIT-ND	69.95
5 each of values 100 ohm to 976 ohm (485 total pieces)	BCX2-KIT-ND	69.94
5 each of values 1.00K ohm to 9.76K ohm (485 total pieces)	BCX3-KIT-ND	69.94
5 each of values 10.0K ohm to 97.6K ohm (485 total pieces)	BCX4-KIT-ND	69.94
5 each of values 100K ohm to 2.00M ohm (655 total pieces)	BCX5-KIT-ND	94.96
BC Component 1% Metal Film, .60 Watt, B0207C-F Series		
5 each of values 10.0 ohm to 97.6 ohm (480 total pieces)	BCZ1-KIT-ND	57.95
5 each of values 100 ohm to 976 ohm (480 total pieces)	BCZ2-KIT-ND	57.95
5 each of values 1.00K ohm to 9.76K ohm (480 total pieces)	BCZ3-KIT-ND	57.95
5 each of values 10.0K ohm to 97.6K ohm (475 total pieces)	BCZ4-KIT-ND	57.94
5 each of values 100K ohm to 2.20M ohm (520 total pieces)	BCZ5-KIT-ND	59.95
BC Component 5% Metal Film, 1 Watt, 5073NW Series		
5 each of values 1.0 ohm to 91 ohm (240 total pieces)	BCAW1-KIT-ND	29.95
5 each of values 100 ohm to 9.1K ohm (240 total pieces)	BCBW1-KIT-ND	29.95
5 each of values 10K ohm to 1.0M ohm (245 total pieces)	BCCW1-KIT-ND	29.96
BC Component 5% Metal Film, 2 Watt, 5083NW Series		
5 each of values 1.0 ohm to 91 ohm (240 total pieces)	BCAW2-KIT-ND	39.95
5 each of values 100 ohm to 9.1K ohm (240 total pieces)	BCBW2-KIT-ND	39.95
5 each of values 10K ohm to 1.0M ohm (245 total pieces)	BCCW2-KIT-ND	39.95
BC Component 5% Metal Film, 3 Watt, 5093NW Series		
5 each of values 10 ohm to 430K ohm (200 total pieces)	BCAW3J-KIT-ND	59.95
5 each of values 470 ohm to 20K ohm (200 total pieces)	BCBW3J-KIT-ND	59.95
5 each of values 22K ohm to 1.0M ohm (205 total pieces)	BCCW3J-KIT-ND	59.95
Panasonic 0402 1% Chip Resistor Assortments, 1/16 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1L-ND	189.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2L-ND	189.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3L-ND	189.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4L-ND	189.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5L-ND	189.00
Panasonic 0402 5% Chip Resistor Assortments, 1/16 Watt		
50 each of every other value from 10, 12, 15, etc 1.0M (3,050 pieces)	CR7A-KIT-ND	89.95
200 each of every other value from 10, 12, 15, etc 1.0M (12,200 pieces)	CR7-KIT-ND	399.00
50 each of every other value from 11, 13, 16, etc. 910K (3,000 pieces)	CR8A-KIT-ND	89.95
200 each of every other value from 11, 13, 16, etc. 910K (12,000 pieces)	CR8-KIT-ND	399.00
Panasonic 0603 1% Chip Resistor Assortments, 1/16 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1H-ND	129.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2H-ND	129.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3H-ND	129.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4H-ND	129.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5H-ND	129.00
Panasonic 0603 5% Chip Resistor Assortments, 1/16 Watt		
50 each of every other value from 10, 12, 15, etc 1.0M (3,050 pieces)	CR5A-KIT-ND	85.95
200 each of every other value from 10, 12, 15, etc 1.0M (12,200 pieces)	CR5-KIT-ND	379.00
50 each of every other value from 11, 13, 16, etc. 910K (3,000 pieces)	CR6A-KIT-ND	85.95
200 each of every other value from 11, 13, 16, etc. 910K (12,000 pieces)	CR6-KIT-ND	379.00
Panasonic 0805 1% Chip Resistor Assortments, 1/10 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1CA-ND	119.95
200 each of values 10 ohm to 97.6 ohm (19,200 pieces)	RSM1C-ND	495.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2CA-ND	119.95
200 each of values 100 ohm to 976 ohm (19,200 pieces)	RSM2C-ND	495.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3CA-ND	119.95
200 each of values 1.00K to 9.76K (19,200 pieces)	RSM3C-ND	495.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4CA-ND	119.95
200 each of values 10.0K to 97.6K (19,200 pieces)	RSM4C-ND	495.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5CA-ND	119.95
200 each of values 100K to 1.00M (19,400 pieces)	RSM5C-ND	495.00
Panasonic 0805 5% Chip Resistor Assortments, 1/10 Watt		
50 each of every other value from 10, 12, 15, etc. 1.0M (3,050 pieces)	CR3A-KIT-ND	79.95
200 each of every other value from 10, 12, 15, etc. 1.0M (12,200 pieces)	CR3-KIT-ND	349.00
50 each of every other value from 11, 13, 16, etc. 910K (3,000 pieces)	CR4A-KIT-ND	79.95
200 each of every other value from 11, 13, 16, etc. 910K (12,000 pieces)	CR4-KIT-ND	349.00
Panasonic 1206 1% Chip Resistor Assortments, 1/8 Watt		
50 each of values 10.0 ohm to 97.6 ohm (4,800 pieces)	RSM1FA-ND	129.95

(Continued)

Description	Digi-Key Part No.	Price Each
Panasonic 1206 1% Chip Resistor Assortments, 1/8 Watt		
200 each of values 10.0 ohm to 97.6 ohm (19,200 pieces)	RSM1F-ND	495.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2FA-ND	129.95
200 each of values 100 ohm to 976 ohm (19,200 pieces)	RSM2F-ND	495.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3FA-ND	119.95
200 each of values 1.00K to 9.76K (19,200 pieces)	RSM3F-ND	495.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4FA-ND	129.95
200 each of values 10.0K to 97.6K (19,200 pieces)	RSM4F-ND	495.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5FA-ND	129.95
200 each of values 100K to 1.00M (19,400 pieces)	RSM5F-ND	495.00
Panasonic 1206 5% Chip Resistor Assortments, 1/8 Watt		
50 each of every other value from 10, 12, 15, etc. 1.0M (3,050 pieces)	CR1A-KIT-ND	79.95
200 each of every other value from 10, 12, 15, etc. 1.0M (12,200 pieces)	CR1-KIT-ND	329.00
50 each of every other value from 11, 13, 16, etc. 910K (3,000 pieces)	CR2A-KIT-ND	79.95
200 each of every other value from 11, 13, 16, etc. 910K (12,000 pieces)	CR2-KIT-ND	329.00
Yageo 5% Carbon Film, 1/8 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2, etc. thru 1.0 megohm (365 total pieces)	RS112-ND	16.96
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4, etc. thru 910 kilohm (360 total pieces)	RS212-ND	16.99
200 ea. of all 161 standard values 1.0 - 4.7 megohms (32,200 total pieces)	RSE200-ND	409.00
Yageo 5% Carbon Film, 1/4 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2, etc. thru 1.0 megohm (365 total pieces)	RS125-ND	14.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4, etc. thru 910 kilohm (360 total pieces)	RS225-ND	14.95
200 ea. of all 169 standard values 1.0 - 10 megohms (33,800 total pieces)	RSQ200-ND	239.00
Yageo 5% Carbon Film, 1/2 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2, etc. thru 1.0 megohm (365 total pieces)	RS150-ND	16.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4, etc. thru 910 kilohm (360 total pieces)	RS250-ND	16.95
200 ea. of all 161 standard values 1.0 - 4.7 megohms (32,200 total pieces)	RSH200-ND	335.00
Yageo 1% Metal Film, 1/4 Watt		
5 each of values 10 ohm to 97.6 ohm (480 total pieces)	RS1X-ND	29.95
5 each of values 100 ohm to 976 ohm (480 total pieces)	RS2X-ND	29.95
5 each of values 1.00K to 9.76K (480 total pieces)	RS3X-ND	29.95
5 each of values 10.0K to 97.6K (480 total pieces)	RS4X-ND	29.95
5 each of values 100K to 1.00M (480 total pieces)	RS5X-ND	29.95
Yageo 5% Metal Oxide, 1 Watt		
5 each of values 0.47 ohm to 56 ohm (255 total pieces)	RS101-ND	26.95
5 each of values 62 ohm to 7.5K (255 total pieces)	RS201-ND	26.95
5 each of values 8.2K to 1.0M (255 total pieces)	RS301-ND	26.95
Yageo 5% Metal Oxide, 2 Watt		
5 each of values 0.47 ohm to 56 ohm (255 total pieces)	RS102-ND	29.95
5 each of values 62 ohm to 7.5K (255 total pieces)	RS202-ND	29.95
5 each of values 8.2K to 1.0M (255 total pieces)	RS302-ND	29.95
Yageo 5% Wirewound Rectangular, 5 Watt		
5 each of values 0.30 ohm - 0.91 ohm (60 pieces)	RS105-ND	23.95
4 each of values 1.0 ohm - 9.1 ohm (96 pieces)	RS205-ND	32.95
4 each of values 10 ohm - 91 ohm (96 pieces)	RS305-ND	32.95
3 each of values 100 ohm - 2.0K (96 pieces)	RS405-ND	32.95
Yageo 5% Wirewound Rectangular, 10 Watt		
2 each of all 10 watt resistors values listed (168 total pieces)	RS110-ND	72.95
Yageo America 0402 1% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.00 ohm to 75.0 ohm (850 total pieces)	PHL1-KIT-ND	15.95
50 each of values 100 ohm to 910 ohm (1,100 pieces)	PHL2-KIT-ND	19.95
50 each of values 1.00K ohm to 9.53K ohm (1,650 pieces)	PHL3-KIT-ND	29.95
50 each of values 10.0K ohm to 97.6K ohm (2,800 pieces)	PHL4-KIT-ND	49.95
50 each of values 100K ohm to 1.0K ohm (1,600 pieces)	PHL5-KIT-ND	29.95
Yageo America 0603 1% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.00 ohm to 7.50 ohm (1,150 total pieces)	PHH1-KIT-ND	11.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHH2-KIT-ND	65.95
50 each of values 100 ohm to 976 ohm (5,750 total pieces)	PHH3-KIT-ND	65.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHH4-KIT-ND	65.95
50 each of values 10.0K ohm to 97.6K ohm (5,700 total pieces)	PHH5-KIT-ND	65.95
50 each of values 100K ohm to 1.00M ohm (6,000 total pieces)	PHH6-KIT-ND	65.95
Yageo America 0805 1% Thick Film Chip Resistor Assortments, 1/10 Watt		
50 each of values 1.00 ohm to 9.76 ohm (5,200 total pieces)	PHC1A-KIT-ND	65.95
200 each of values 1.00 ohm to 9.76 ohm (20,800 total pieces)	PHC1-KIT-ND	149.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHC2A-KIT-ND	65.95
200 each of values 10.0 ohm to 97.6 ohm (22,800 total pieces)	PHC2-KIT-ND	149.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHC3A-KIT-ND	65.95
200 each of values 100 ohm to 976 ohm (22,800 total pieces)	PHC3-KIT-ND	149.95
50 each of values 1.00K ohm to 9.76K ohm (5,750 total pieces)	PHC4A-KIT-ND	65.95
200 each of values 1.00K ohm to 9.76K ohm (23,000 total pieces)	PHC4-KIT-ND	149.95
50 each of values 10.0K ohm to 97.6K ohm (5,650 total pieces)	PHC5A-KIT-ND	65.95
200 each of values 10.0K ohm to 97.6K ohm (22,600 total pieces)	PHC5-KIT-ND	149.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHC6A-KIT-ND	65.95
200 each of values 100K ohm to 1.00M ohm (23,000 total pieces)	PHC6-KIT-ND	149.95
Yageo America 1206 1% Thick Film Chip Resistor Assortments, 1/8 Watt		
50 each of values 1.00 ohm to 9.76 ohm (5,700 total pieces)	PHF1A-KIT-ND	99.95
200 each of values 1.00 ohm to 9.76 ohm (22,800 total pieces)	PHF1-KIT-ND	219.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHF2A-KIT-ND	99.95
200 each of values 10.0 ohm to 97.6 ohm (22,800 total pieces)	PHF2-KIT-ND	219.95
50 each of values 100 ohm to 976 ohm (5,850 total pieces)	PHF3A-KIT-ND	99.95
200 each of values 100 ohm to 976 ohm (23,400 total pieces)	PHF3-KIT-ND	219.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHF4A-KIT-ND	99.95
200 each of values 1.00K ohm to 9.76K ohm (22,800 total pieces)	PHF4-KIT-ND	219.95
50 each of values 10.0K ohm to 97.6K ohm (5,750 total pieces)	PHF5A-KIT-ND	99.95
200 each of values 10.0K ohm to 97.6K ohm (23,000 total pieces)	PHF5-KIT-ND	219.95
50 each of values 100K ohm to 1.00M ohm (5,800 total pieces)	PHF6A-KIT-ND	99.95
200 each of values 100K ohm to 1.00M ohm (23,200 total pieces)	PHF6-KIT-ND	219.95
Yageo America 0402 5% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.0, 2.0, 3.0, 3.9 ohm etc. to 1.0M ohm (2,600 total pieces)	PHJ1A-KIT-ND	29.95
200 each of values 1.0, 2.0, 3.0, 3.9 ohm etc. to 1.0M ohm (10,400 total pieces)	PHJ1-KIT-ND	65.95
50 each of values 1.1, 2.2, 3.3, 4.3 ohm etc. to 680K ohm (2,550 total pieces)	PHJ2A-KIT-ND	29.95
200 each of values 1.1, 2.2, 3.3, 4.3 ohm etc. to 680K ohm (10,200 pieces)	PHJ2-KIT-ND	65.95
Yageo America 0603 5% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,600 total pieces)	PHG1A-KIT-ND	25.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,400 total pieces)	PHG1-KIT-ND	65.95
50 each of values 1.1, 1.3, 1.6, 2.2 ohm etc. to 1.0M ohm (3,600 total pieces)	PHG2A-KIT-ND	25.95
200 each of values 1.1, 1.3, 1.6, 2.2 ohm etc. to 1.0M ohm (14,400 pieces)	PHG2-KIT-ND	65.95
Yageo America 0805 5% Thick Film Chip Resistor Assortments, 1/10 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,650 total pieces)	PHA1A-KIT-ND	39.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,600 total pieces)	PHA1-KIT-ND	65.95
50 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (3,650 total pieces)	PHA2A-KIT-ND	39.95
200 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (14,400 pieces)	PHA2-KIT-ND	65.95
Yageo America 1206 5% Thick Film Chip Resistor Assortments, 1/8 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,600 total pieces)	PHE1A-KIT-ND	39.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,400 total pieces)	PHE1-KIT-ND	99.95
50 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (3,600 total pieces)	PHE2A-KIT-ND	39.95
200 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (14,400 pieces)	PHE2-KIT-ND	99.95

Digi-Key® Resistor Network Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
CTS 766 Series		
Bussed Circuits		
5 each of 62 values in the series (310 total pieces) *Kit does not include value 330K ohm	766-141-KIT-ND	249.00
5 each of 63 values in the series (315 total pieces)	766-161-KIT-ND	249.00
Isolated Circuits		
5 each of 63 values in the series (315 total pieces)	766-143-KIT-ND	249.00
5 each of 61 values in the series (305 total pieces) *Kit does not include values 820, and 1.2K ohm.	766-163-KIT-ND	249.00
Dual Terminator Circuits		
5 each of 4 values in the series (20 total pieces)	766-DUAL-KIT-ND	46.95
CTS 767 Series		
Bussed Circuits		
5 each of 62 values in the series (310 total pieces) *Kit does not include value 3.9K ohm.	767-141-KIT-ND	159.95
5 each of 63 values in the series (315 total pieces)	767-161-KIT-ND	159.95
Isolated Circuits		
5 each of 62 values in the series (310 total pieces) *Kit does not include value 27 ohm	767-143-KIT-ND	159.95
5 each of 63 values in the series (315 total pieces)	767-163-KIT-ND	159.95
Dual Terminator Circuits		
5 each of 4 values in the series (20 total pieces)	767-DUAL-KIT-ND	34.95
CTS 768 Series		
Bussed Circuits		
5 each of 62 values in the series (310 total pieces) *Kit does not include value 3.9K ohm.	768-141-KIT-ND	159.95
5 each of 63 values in the series (315 total pieces)	768-161-KIT-ND	159.95
Isolated Circuits		
5 each of 62 values in the series (310 total pieces) *Kit does not include value 27 ohm	768-143-KIT-ND	159.95
5 each of 63 values in the series (315 total pieces)	768-163-KIT-ND	159.95
Dual Terminator Circuits		
5 each of 4 values in the series (20 total pieces)	768-DUAL-KIT-ND	34.95

Digi-Key® Capacitor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic Miniature Aluminum Electrolytic		
KG Series - 10 each of 18 popular values denoted (180 total pieces)	P900-KIT-ND	34.95
Panasonic Miniature Radial Lead Electrolytic		
M-Series - 10 each of 17 popular values denoted (170 total pieces)	M-KIT-ND	69.95
NHG-Series - 10 each of 18 popular values denoted (180 total pieces)	NHG-KIT-ND	69.95
Panasonic Miniature Radial Lead Electrolytic		
KA-Series - 10 each of 16 popular values denoted (160 total pieces)	P835-KIT-ND	29.95
Panasonic Tantalum		
EF-Series - Assortment of 15 popular values denoted (180 total pieces)	F-KIT-ND	39.95
Panasonic Stacked Metal Film		
V-Series, 50 Volt - 10 each of 18 popular values denoted (180 total pieces)	P4542-KIT-ND	49.95
V-Series, 100 Volt - 10 each of 18 popular values denoted (180 total pieces)	P4700-KIT-ND	49.95
Panasonic Metal Film (Interference Suppressors)		
X-Y Series - 10 each of 10 popular values denoted (100 total pieces)	P4650-KIT-ND	59.95
Panasonic Metallized Polyester		
E-Series - 10 each of 14 popular values denoted (except #E2104 has 30 total pieces) (170 total pieces)	E-KIT-ND	59.95

(Continued)

Description	Digi-Key Part No.	Price Each
Panasonic Polyester		
B-Series - Various quantities of 12 popular values denoted (300 total pieces)	P4550-KIT-ND	29.95
Panasonic Polyester Foil		
M-Series, **200 Volt** - 10 each of 15 popular values denoted (150 total pieces)	M200-KIT-ND	29.95
M-Series, **400 Volt** - 10 each of 15 popular values denoted (150 total pieces)	M400-KIT-ND	29.95
Panasonic Polypropylene		
P-Series - 10 each of 15 popular values denoted (150 total pieces)	P3100-KIT-ND	69.95
Panasonic SMT Film		
ECH-U Series - 10 each of 18 popular values denoted (180 total pieces)	PCF1-KIT-ND	59.95
Panasonic SMT Specialty Polymer Aluminum Electrolytic Chip		
CD/UD/UE Series - 30 each of 12 popular values denoted (360 total pieces)	SP1-KIT-ND	59.00
Panasonic 0402 Chip Ceramic		
NPO Series - 10 each of 28 popular values denoted (280 total pieces)	PCC13-KIT-ND	49.95
X7R Series - 10 each of 30 popular values denoted (300 total pieces)	PCC14-KIT-ND	45.95
Panasonic 0603 Chip Ceramic		
NPO Series -10 each of 30 popular values denoted (300 total pieces)	PCC9-KIT-ND	29.95
X7R and X5R Series - 10 each of 30 popular values denoted (300 total pieces)	PCC15-KIT-ND	29.95
Panasonic 0805 Chip Ceramic		
NPO Series - 10 each of 30 popular values denoted (300 total pieces)	PCC7-KIT-ND	29.95
X7R Series - 10 each of 30 popular values denoted (300 total pieces)	PCC16-KIT-ND	29.95
Panasonic 1206 Chip Ceramic		
NPO Series - 10 each of 14 popular values denoted (140 total pieces)	PCC17-KIT-ND	89.95
NEW! **Panasonic Multilayer Ceramic Chip (MLCC) Capacitor**		
X5R Series - 20 each of 20 popular values denoted (400 total pieces)	PCC18-KIT-ND	49.95

Digi-Key® Inductor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
API Delevan Surface Mount Inductors		
Series 1008 - 5 ea. of 54 values (270 pcs.), 0.0018-47.0µH (Mfg. # 1008KIT)	1008KIT-ND	95.95
Series S1008 - 5 ea. of 36 values (180 pcs.), 0.1-47.0µH (Mfg. # S1008KIT)	S1008KIT-ND	95.95
Series 1210 - 5 ea. of 58 values (290 pcs.), 0.0018-100.0µH (Mfg. # 1210KIT)	1210KIT-ND	95.95
Series S1210 - 5 ea. of 37 values (185 pcs.), 0.10-100.0µH (Mfg. # S1210KIT)	S1210KIT-ND	95.95
Series 1812 - 5 ea. of 61 values (305 pcs.), 0.010-1000.0µH (Mfg. # 1812KIT)	1812KIT-ND	95.95
Series S1812 - 5 ea. of 49 values (245 pcs.), 0.10-1000.0µH (Mfg. # S1812KIT)	S1812KIT-ND	95.95
API Delevan Air Core Inductors		
Series 4426 - 5 ea. of 10 values (50 pcs.), 2.5nH-43nH (Mfg. # 4426KIT)	4426KIT-ND	25.50
Panasonic SMT Inductors		
RE Type (2% Tolerance) - 10 each of 23 inductors (230 total pieces)	PCD4-KIT-ND	79.95
RE Type (5% Tolerance) - 10 each of 23 inductors (230 total pieces)	PCD1-KIT-ND	69.95
ND Type - 10 ea. of 25 inductors (***PCD1185CT-ND not included***) (250 total pieces)	PCD2-KIT-ND	99.95
RF Type - 10 each of 20 inductors (200 total pieces)	PCD3-KIT-ND	69.95
Parallax Power Components E-Core Inductors		
CME375 Series - 1 each of 9 popular inductors (9 total pieces)	237-1219-ND	55.56
Parallax Power Components Common Mode Encapsulated		
Toroidal Inductors - 1 each of 8 popular inductors (8 total pieces)	237-1238-ND	33.33
Parallax Power Components Toroidal Inductors		
1 each of 30 popular inductors (30 total pieces)	237-1209-ND	83.33
Parallax Power Components High Current Rod Core Inductors		
1 each of 6 popular inductors (6 total pieces)	237-1164-ND	11.11
Parallax Power Components Rod Core Inductors		
1 each of 11 popular inductors (11 total pieces)	237-1177-ND	27.78
Steward SMT EMI Suppression Ferrite Chips		
10 each of size codes 0402 - 3312 and 5 each of 240-1001-1-ND and 240-1002-1-ND (550 total pieces)	240-2110-ND	59.95
Toko Chip Inductors - LL Series		
1005 - 10 each of 25 values (250 pcs.), 1.0nH-100nH (SPK-LL1005FH-5%)	TK10-KIT-ND	40.50
Toko Standard Coil Kit		
5mm - 2 each of 43 popular coils denoted (86 total pieces)	TK4-KIT-ND	63.00
Toko Surface Mount Fixed Inductors		
33CS/36CS Series, 10 ea. of 9 values (90 pcs.), 6.8nH-49.8nH (Toko # SPK-3336CS-1993)	TK11-KIT-ND	49.00
D62CB Series, 3 each of 18 values (54 pieces), 1.0µH-82.0µH (Toko # SPK-D62CB-1999)	TK18-KIT-ND	58.80
D32FU Series, 3 each of 14 values (42 pieces), 0.33mH-3.3mH (Toko # SPK-D32FU-1999)	TK19-KIT-ND	52.27
D124C Series, 3 each of 13 values (39 pieces), 3.3µH-100.0µH (Toko # SPK-D124C-1999)	TK17-KIT-ND	66.97

Digi-Key® Miscellaneous Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
3M Insulated Terminals		
650 assorted terminals (14 sizes), 200 cable ties, wire marker dispenser, crimp tool, metal box	923000-I-ND	125.00
3M Heatshrink Precut Lengths		
CP-221 Series - 50 each of 5 sizes/100 of 1 size (350 total pieces)	CP-KIT-ND	13.95
FP-301 Series - 50 each of 5 sizes/100 of 1 size (350 total pieces)	FP-KIT-ND	14.95
VFP-876 Series - 50 each of 5 sizes/100 of 1 size (350 total pieces)	VFP-KIT-ND	15.95
3M Colored Heatshrinkable Tubing		
FP-301 Ser. - 1-5 ft. tubing of each color in 8 denoted series (55 total pieces)	FPC-KIT-ND	59.95
Alpha Hook-Up Wire		
3050 Series - 5-100 foot spools (Black, White, Red, Green and Blue) with dispenser and wire cutter (Alpha # HUKIT40 NC032)	HU-KIT-40-ND	105.06
3051 Series - 5-100 foot spools (Black, White, Red, Green and Blue) with dispenser and wire cutter (Alpha # HUKIT20 NC032)	HU-KIT-20-ND	105.06
Capital Advanced Technologies Inc. - Master Assortment Kit for Discretes, 2 each of all 23 models in the 6000 series of surfboards for discrete components (46 total pieces)	MK-6000CA-ND	99.00
Capital Advanced Technologies Inc. - Master Assortment Kit for ICs, 5 each of models 9081, 9082, 9161, 9162 and 2 each of models 9163, 9164, 9165, 9210, 9301 and 9302 (32 total pieces)	MK-9000CA-ND	99.00
Capital Advanced Technologies Inc. - Master Assortment Kit for UNI-SIP, 2 each of all 26 types in the UNI-SIP Series, packaged in reclosable bags grouped by series number (52 total pieces)	MK260CA-ND	79.00
CW Industries Switches		
Various quantities of 14 switches denoted (130 total pieces)	SW-KIT-ND	69.95
Daburn Shrinkable Tubing, Polyolefin: Black		
5 feet of 6 popular sizes (30 total feet of tubing)	STA-KIT-ND	10.95
Diode SOT-23 SMD Zener Diode Kit		
10 each of 18 popular diodes denoted (180 total pieces)	BZX2-KIT-ND	23.79
ECS, Inc. Crystals		
3 each of 27 popular crystals denoted (81 total pieces)	XC-KIT-ND	169.00
Hamlin Magnetic Switches		
Various quantities of 18 switches denoted (22 total pieces)	HE1-KIT-ND	69.95
1 each of 18 switches denoted (18 total pieces)	HE2-KIT-ND	49.95
Hardware - 100 each of machine screws, hex nuts and lock washers in each of the following kits:		
Slotted - (1,600 total pieces)	1600-KIT-ND	17.95
Slotted - (1,600 total pieces)	1601-KIT-ND	27.95
Phillips - (1,600 total pieces)	1602-KIT-ND	17.95
Phillips - (1,600 total pieces)	1603-KIT-ND	27.78
Nylon - (1,500 total pieces)	1604-KIT-ND	53.94
Phillips, Stainless Steel - (1,400 total pieces)	1607-KIT-ND	39.95
Phillips, Stainless Steel - (1,500 total pieces)	1608-KIT-ND	79.95
Hardware (Metric) - 100 each of machine screws, hex nuts, lock washers and flat washers in each of the following kits:		
Metric Phillips, Zinc Plated - (1,500 total pieces)	1605-KIT-ND	59.95
Metric Phillips, Zinc Plated - (1,500 total pieces)	1606-KIT-ND	99.95
Johnson Plugs and Jacks		
10 each of 15 popular plugs and jacks denoted (150 total pieces)	J100-KIT-ND	76.95
Keystone Electronics .250" Round Clear Spacers		
Brass Nickel Plated Assortment with Cabinet - (1,500 total pieces)	SPR-13KIT-ND	244.08
Aluminum Iridite Plated Assortment with Cabinet - (1,500 total pieces)	SPR-34KIT-ND	229.74
Keystone Electronics .250" Hex Female Threaded Standoffs		
Brass Assortment with Cabinet - (1,500 total pieces)	STH-14KIT-ND	394.88
Aluminum Assortment with Cabinet - (1,500 total pieces)	STH-22KIT-ND	285.62
Keystone Electronics .250" Round Threaded Standoffs		
Brass Assortment with Cabinet - (1,500 total pieces)	STR-15KIT-ND	358.96
Aluminum Assortment with Cabinet - (1,500 total pieces)	STR-35KIT-ND	280.01
Keystone Electronics .250" Hex Male/Female Standoffs		
Brass Assortment with Cabinet - (750 total pieces)	STH-19KIT-ND	358.96
LittelFuse Pico SMD and Nano^2 SMF Fuses		
5 each of 30 fuses denoted (150 total pieces)	SMF-KIT-ND	99.95
Panasonic LEDs		
10 each of 18 popular LEDs (180 total pieces)	LED-KIT-ND	33.98
Parallax Power Components Current Sense Transformers		
CST206 Series - 1 each of 6 popular transformers (6 total pieces)	237-1102-ND	33.30
CST306 Series - 1 each of 6 popular transformers (6 total pieces)	237-1110-ND	22.22
Parallax Power Components Gate Drive Transformers		
1 each of 6 popular transformers (6 total pieces)	237-1117-ND	88.89
NEW! **Wickman Fuses**		
10 each of 17 popular fuses denoted and 15 of TR5 Fuseholder (185 total pieces)	WK0113-KIT-ND	74.95
10 each of 17 popular fuses denoted and 15 of TR5 Fuseholder (185 total pieces)	WK0116-KIT-ND	79.95
10 each of 17 popular fuses denoted and 15 of TE5 Fuseholder (185 total pieces)	WK0117-KIT-ND	79.95
10 each of 17 popular fuses denoted and 5 of Shock-Safe Fuseholder (175 total pieces)	WK0119-KIT-ND	59.95
10 each of 17 popular fuses denoted and 5 of Shock-Safe Fuseholder (175 total pieces)	WK0120-KIT-ND	59.95
Zetex SOT-23 SMD Zener Diode Kit		
10 each of 18 popular diodes denoted (180 total pieces)	BZX1-KIT-ND	49.95

Panasonic

DC Fans UDQ Series

SPECIFICATIONS:

- **Operating Temperature:** 0°C to +70°C
- **Operating Humidity:** <85 Rh%

Fig. 1 – Flat Unidirectional (Cooler Chip)

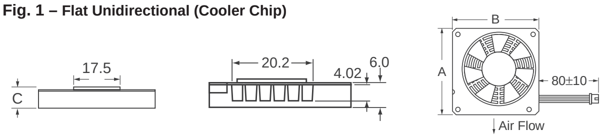


Fig. 2 – Vertical (Axial)

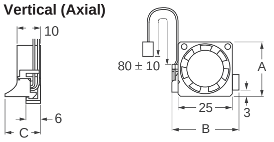


Fig.	Dim. (mm) A B C	Operating Voltage (VDC) Nom.	Range	@ 60° C Current (mA)	Speed (r/min)	Max Air Flow @ 60° C (m3/min.)	(CFM)	Max Air Pressure @ 60° C (Pa)	(in H2O)	Life Expectancy (HRS@ 60°C)	Noise @ 1M dBA	Digi-Key Part No.	Price Each 1	5	10	50	100	Panasonic Part No.
1	34.5 x 34.5 x 7.5	5	4.5-5.5	145	8,000	0.013	0.46	34	0.14	30,000	40	P9696-ND*	28.13	24.19	18.75	17.31	16.08	UDQFC3E07-P1
	35 x 35 x 6	5	3.1-5.5	125	8,000	0.012	0.43	32	0.13	30,000	25	P11086-ND§	20.00	17.20	14.80	13.28	12.00	UDQFMKH01-P1
	35 x 35 x 6	5	3.1-5.5	125	8,000	0.012	0.43	32	0.13	30,000	25	P11087-ND§†	27.50	23.65	20.35	18.26	16.50	UDQFMKH01F-P1
	35 x 35 x 7	5	3.1-5.5	175	7,000	0.027	0.96	52	0.21	30,000	28	P11088-ND§	17.50	15.05	12.95	11.62	10.50	UDQFNLH21-P1
	44.5 x 44.5 x 7.5	5	4.5-6	150	4,800	0.022	0.78	24.5	0.10	30,000	26	P9770-ND*	28.13	24.19	18.75	17.31	16.08	UDQFC4E07-PI
	45 x 45 x 7	5	3.1-5.5	225	7,500	0.039	1.40	65	0.26	30,000	33	P11089-ND§	18.13	15.59	13.42	12.04	10.88	UDQFUMH01-P1
	45 x 45 x 10	5	3.1-5.5	200	5,500	0.07	2.50	65	0.26	30,000	33	P11090-ND§	15.00	12.90	11.10	9.96	9.00	UDQFSEH01-P1
2	25 x 30 x 15	5	4.5-6	65	6,700	0.023	0.81	9.8	0.04	10,000	21	P9771-ND	28.13	24.19	18.75	17.31	16.08	UDQFB2E02-PI
	25 x 25 x 10	5	3.1-5.5	130	13,000	0.10	2.00	60	0.24	30,000	29	P11084-ND‡	20.00	17.20	14.80	13.28	12.00	UDQFBDB01-P1
	25 x 25 x 10	5	3.1-5.5	40	7,800	0.040	1.41	24	0.10	30,000	17	P11093-ND *NEW!*	13.75	11.83	10.18	9.13	8.25	UDQFBFM01CP1
	30 x 30 x 10	5	3.1-5.5	90	8,500	0.10	3.60	35	0.14	30,000	26	P11085-ND‡	20.00	17.20	14.80	13.28	12.00	UDQFHBB01-P1
	30 x 30 x 10	5	3.1-5.5	50	6,000	0.065	2.29	17	0.07	30,000	18	P11094-ND *NEW!*	13.75	11.83	10.18	9.13	8.25	UDQFHFM01P1
	30 x 30 x 14	5	4.5-6	85	5,600	0.062	2.19	13	0.06	30,000	21	P9779-ND	28.13	24.19	18.75	17.31	16.08	UDQFB3E5-1-PI

* Thermal Sensor 10K@ 25°C † TAC Output (2PPR) § Hydrodynamic Bearings ‡ Ball Bearings

DC Fans FBK Series

Features:

- Brushless DC Motor
- Low RF and Audible Sound
- Adjustable Speed
- High Efficiency
- Long Life

SPECIFICATIONS:

- Operating Temperature: -10°C to +70°C
- Bearing System: Ball bearing
- Insulation Resistance: 10MΩmin. DC 250V between frame and 1 lead wire
- Dielectric Strength: AC 500V 1 minute less than 5mA between frame and + lead wire.
- Plastic housing and blade material are PET, UL 94V-0 rating.
- Noise is measured at rated voltage in free air in Semi-Anechoic Chamber of Background Noise 18 dB max.
- Panasonic will guarantee the life time as 10,000 hours with 100% confidence at 25°C continuous operation.

TÜV

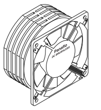
Operating Voltage (VDC) Nom.	Range	Dim. (mm) Sq.xThk.	Input Power (W)	Max Air Flow (CFM)	Max Air Pressure (mmH$_2$O)	Max Noise (dB-A)	Digi-Key Part No.	Price Each 1	5	10	50	100	Panasonic Part No.	Finger Guards	Price Each
5	4.5-6.0	40 x 20	0.60	3.9	2.50	24.0	P9700-ND	15.00	12.90	11.10	9.96	9.00	FBK04F05L	CR285-ND	.29
5	4.5-6.0	40 x 20	1.40	6.7	6.60	33.0	P9701-ND	15.00	12.90	11.10	9.96	9.00	FBK04F05H	CR285-ND	.29
5	4.5-6.0	40 x 20	1.40	6.7	6.60	33.0	P9993-ND* *NEW!*	14.88	12.80	11.01	9.88	8.93	FBK04F05HS	CR285-ND	.29
12	7.0-13.8	40 x 20	1.80	6.7	6.60	32.0	P11081-ND*	15.25	13.12	11.29	10.13	9.15	FBK04F12HS	CR285-ND	.29
12	7.0-13.8	40 x 20	2.04	9.2	12.00	42.0	P9723-ND	15.00	12.90	11.10	9.96	9.00	FBK04F12U	CR285-ND	.29
12	7.0-13.8	40 x 20	2.04	9.2	12.00	42.0	P9994-ND* *NEW!*	14.88	12.80	11.01	9.88	8.93	FBK04F12US	CR285-ND	.29
12	7.0-13.8	40 x 20	1.80	6.7	6.60	32.0	P9703-ND	15.00	12.90	11.10	9.96	9.00	FBK04F12H	CR285-ND	.29
12	7.0-13.8	40 x 20	0.90	3.9	2.50	23.0	P9702-ND	15.00	12.90	11.10	9.96	9.00	FBK04F12L	CR285-ND	.29
24	14.0-27.6	40 x 20	2.40	9.2	12.00	42.0	P9762-ND	15.00	12.90	11.10	9.96	9.00	FBK04F24U	CR285-ND	.29
24	14.0-27.6	40 x 20	2.21	6.7	6.60	33.0	P9704-ND	15.00	12.90	11.10	9.96	9.00	FBK04F24H	CR285-ND	.29

* Locked rotor alarm sensor

DC Fans FBL Series

Features:

- Louvered design increases air flow and decreases turbulent noise at standard rating conditions
- Hydro-Wave Bearing Technology



SPECIFICATIONS:

- Operating Temperature: -10°C to +70°C (65%RH)
- Plastic Rating: All Panaflo fans are manufactured with a UL94V-0 plastic (flammability)
- Noise Data: The noise data is measured at 1 meter from the air intake side of the fan suspended in a semi-anechoic chamber (background noise 13dB-A max.)
- Life Expectancy: 50,000 hours (40°C, 65%RH)

TÜV

Operating Voltage (VDC) Nom.	Range	Dim. (mm) Sq.xThk.	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mmH$_2$O)	Max. Noise (dB-A)	Digi-Key Part No.	Price Each 1	5	10	50	100	Panasonic Part No.	Finger Guards	Price Each
12	7-13.5	60 x 25.5	3.24	15.89	4.7	42.0	P10893-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12U1A	CR221-ND	.57
12	7-13.5	60 x 25.5	3.24	15.89	4.7	42.0	P11091-ND *NEW!*	8.75	7.53	6.48	5.81	5.25	FBL06A12U1BS	CR221-ND	.57
12	7-13.8	60 x 25.5	2.64	14.83	4.1	36.0	P10892-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12H1A	CR221-ND	.57
12	7-13.8	60 x 25.5	2.04	13.06	3.0	32.0	P10891-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12M1A	CR221-ND	.57
12	7-13.8	60 x 25.5	1.68	14.83	2.1	29.0	P10890-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12L1A	CR221-ND	.57
24	14-27.6	60 x 25.5	3.24	15.89	4.7	42.0	P11017-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24U1A	CR221-ND	.57
24	14-27.6	60 x 25.5	2.64	14.83	4.1	36.0	P11016-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24H1A	CR221-ND	.57
24	14-27.6	60 x 25.5	2.04	13.06	3.0	32.0	P11015-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24M1A	CR221-ND	.57
24	14-27.6	60 x 25.5	1.68	14.83	2.1	29.0	P11014-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24L1A	CR221-ND	.57
12	7-13.5	80 x 25.5	4.32	35.31	4.7	42.0	P11082-ND	9.25	7.96	6.85	6.15	5.55	FBL08A12U1BX	CR180-ND	.85
12	7-13.8	80 x 25.5	4.32	35.31	4.0	42.0	P10897-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12U1A	CR180-ND	.85
12	7-13.8	80 x 25.5	3.00	30.01	2.9	39.0	P10896-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12H1A	CR180-ND	.85
12	7-13.8	80 x 25.5	2.04	24.71	2.0	33.0	P10895-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12M1A	CR180-ND	.85
12	7-13.8	80 x 25.5	1.20	17.30	1.1	26.0	P10894-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12L1A	CR180-ND	.85
24	14-27.6	80 x 25.5	4.32	35.30	4.0	42.0	P11021-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24U1A	CR180-ND	.85
24	14-27.6	80 x 25.5	3.00	30.00	2.9	39.0	P11020-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24H1A	CR180-ND	.85
24	14-27.6	80 x 25.5	2.04	24.71	2.0	33.0	P11019-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24M1A	CR180-ND	.85
24	14-27.6	80 x 25.5	1.20	17.30	1.1	26.0	P11018-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24L1A	CR180-ND	.85
12	7-13.5	92 x 25.5	3.48	45.89	3.3	40.0	P10900-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12H1A	CR220-ND	.68
12	7-13.5	92 x 25.5	3.48	45.9	3.3	40.0	P11083-ND	9.25	7.96	6.85	6.15	5.55	FBL09A12H1BX	CR220-ND	.68
12	7-13.8	92 x 25.5	6.60	54.72	4.4	47.0	P10901-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12U1A	CR220-ND	.68
12	7-13.8	92 x 25.5	2.40	35.30	2.3	36.0	P10899-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12M1A	CR220-ND	.68
12	7-13.8	92 x 25.5	1.80	31.77	1.9	33.0	P10898-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12L1A	CR220-ND	.68
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	P11025-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24U1A	CR220-ND	.68
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	P11092-ND *NEW!*	9.00	7.74	6.66	5.98	5.40	FBL09A24U1BX	CR220-ND	.68
24	14-27.6	92 x 25.5	3.48	45.89	3.3	40.0	P11024-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24H1A	CR220-ND	.68
24	14-27.6	92 x 25.5	2.40	35.30	2.3	36.0	P11023-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24M1A	CR220-ND	.68
24	14-27.6	92 x 25.5	1.80	31.77	1.9	33.0	P11022-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24L1A	CR220-ND	.68
12	7-13.8	120 x 38	7.80	86.49	5.5	48.0	P10905-ND	29.38	25.27	21.74	19.51	17.63	FBL12G12U1A	CR210-ND	1.79
12	7-13.8	120 x 38	7.20	81.19	5.2	46.0	P10904-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12H1A	CR210-ND	1.79
12	7-13.8	120 x 38	5.40	67.07	3.6	41.0	P10903-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12M1A	CR210-ND	1.79
12	7-13.8	120 x 38	2.88	52.95	2.3	35.0	P10902-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12L1A	CR210-ND	1.79
24	14-27.6	120 x 38	7.80	86.49	5.5	48.0	P11029-ND	29.38	25.27	21.74	19.51	17.63	FBL12G24U1A	CR210-ND	1.79
24	14-27.6	120 x 38	7.20	81.19	5.2	46.0	P11028-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24H1A	CR210-ND	1.79
24	14-27.6	120 x 38	5.40	67.07	3.6	41.0	P11027-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24M1A	CR210-ND	1.79
24	14-27.6	120 x 38	2.88	52.95	2.3	35.0	P11026-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24L1A	CR210-ND	1.79

Manufacturer Part Number Ending Code: BS - Locked Rotor Alarm Sensor **BX** - 2 PPR Speed Sensor (TAC Output)

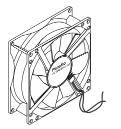
P11030-ND	Lead Wire Assembly, 3 Conductors	**$.63/1; $13.44/25**
P11031-ND	Lead Wire Assembly, 2 Conductors	**$.63/1; $13.44/25**
A1950CT-ND	Crimp Contacts, 22-26 AWG	**$2.79/100; $12.77/500**
A1950TR-ND	Crimp Contacts, 22-26 AWG	**$250.83/20,000**
A1948-ND	Connector Housing For Hydro-Wave Fans	**$.24/1; $1.59/10; $7.94/100**

Please Note: Custom Fan Cable Assemblies available upon request.

Panasonic

DC Fans FBA Series

Please Note: Custom Fan Cable Assemblies available upon request.



GENERAL SPECIFICATIONS:
- Operating Temperature: -10°C to +70°C (65%RH)
- Bearing Type: Hydro Wave

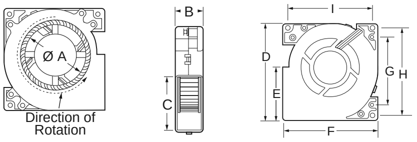
FEATURES:
- Aerodynamic blade and venturi design
- All lead wires are 295mm in length ±15mm (bare wire 10mm ±5mm)
- FBA fans force air out in a “funnel” type pattern
- They are ideal when cooling a specific area that is surrounded by numerous components with minimum ventilation available.

Operating Voltage (VDC)		Dim. (mm) Sq.xThk.	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mmH$_2$O)	Max. Noise (dB-A)	Digi-Key Part No.	Price Each					Panasonic Part No.	Finger Guards	Price Each
Nom.	Range							1	5	10	50	100			
12	7.0-13.8	60 x 15	1.74	16.6	4.75	32.0	P9725-ND	10.00	8.60	7.40	6.64	6.00	FBA06T12H	CR221-ND	.57
12	7.0-13.8	60 x 15	1.74	16.6	4.75	32.0	P9996-ND *NEW!*	10.00	8.60	7.40	6.64	6.00	FBA06T12HS	CR221-ND	.57
12	7.0-13.8	60 x 15	1.06	12.0	2.80	24.0	P9724-ND	10.00	8.60	7.40	6.64	6.00	FBA06T12L	CR221-ND	.57
24	14-27.6	60 x 15	1.99	16.6	4.75	32.0	P9727-ND	10.00	8.60	7.40	6.64	6.00	FBA06T24H	CR221-ND	.57
24	14-27.6	60 x 15	1.34	12.0	2.80	24.0	P9726-ND	10.00	8.60	7.40	6.64	6.00	FBA06T24L	CR221-ND	.57
12	7.0-13.8	60 x 25.5	2.52	20.5	6.0	37.0	P9758-ND	8.25	7.10	6.11	5.48	4.95	FBA06A12U1A	CR221-ND	.57
12	7.0-13.8	60 x 25.5	2.52	20.5	6.0	37.0	P9995-ND *NEW!*	8.25	7.10	6.11	5.48	4.95	FBA06A12U1BS	CR221-ND	.57
12	7.0-13.8	60 x 25.5	2.04	19.1	5.20	32.0	P9729-ND	8.25	7.10	6.11	5.48	4.95	FBA06A12H1A	CR221-ND	.57
12	7.0-13.8	60 x 25.5	2.04	19.1	5.20	32.0	P11033-ND	8.75	7.53	6.48	5.81	5.25	FBA06A12H1BX	CR221-ND	.57
12	7.0-13.8	60 x 25.5	1.56	16.6	3.95	28.0	P9767-ND	8.25	7.10	6.11	5.48	4.95	FBA06A12M1A	CR221-ND	.57
12	7.0-13.8	60 x 25.5	1.32	14.1	3.10	24.0	P9728-ND	8.25	7.10	6.11	5.48	4.95	FBA06A12L1A	CR221-ND	.57
12	7.0-13.8	60 x 25.5	1.32	14.1	3.10	24.0	P11034-ND	8.75	7.53	6.48	5.81	5.25	FBA06A12L1BX	CR221-ND	.57
24	14.0-27.6	60 x 25.5	2.52	19.1	5.20	32.0	P9731-ND	8.25	7.10	6.11	5.48	4.95	FBA06A24H1A	CR221-ND	.57
24	14.0-27.6	60 x 25.5	2.16	16.6	3.95	28.0	P9768-ND	8.25	7.10	6.11	5.48	4.95	FBA06A24M1A	CR221-ND	.57
24	14.0-27.6	60 x 25.5	1.68	14.1	3.10	24.0	P9730-ND	8.25	7.10	6.11	5.48	4.95	FBA06A24L1A	CR221-ND	.57
12	7.0-13.8	80 x 15	2.40	33.5	3.20	34.0	P9733-ND	10.00	8.60	7.40	6.64	6.00	FBA08T12H	CR180-ND	.85
12	7.0-13.8	80 x 15	2.40	33.5	3.20	34.0	P11095-ND *NEW!*	10.00	8.60	7.40	6.64	6.00	FBA08T12HS	CR180-ND	.85
12	7.0-13.8	80 x 15	0.95	21.9	1.55	23.0	P9732-ND	10.00	8.60	7.40	6.64	6.00	FBA08T12L	CR180-ND	.85
24	14-27.6	80 x 15	2.64	33.5	3.20	34.0	P9735-ND	10.00	8.60	7.40	6.64	6.00	FBA08T24H	CR180-ND	.85
24	14-27.6	80 x 15	1.13	21.9	1.55	23.0	P9734-ND	10.00	8.60	7.40	6.64	6.00	FBA08T24L	CR180-ND	.85
12	7.0-13.8	80 x 25.5	3.24	46.9	4.80	38.2	P9759-ND	8.25	7.10	6.11	5.48	4.95	FBA08A12U1A	CR180-ND	.85
12	7.0-13.8	80 x 25.5	3.24	46.9	4.80	38.2	P9997-ND *NEW!*	8.25	7.10	6.11	5.48	4.95	FBA08A12U1BS	CR180-ND	.85
12	7.0-13.8	80 x 25.5	2.08	39.6	3.78	32.0	P9738-ND	8.25	7.10	6.11	5.48	4.95	FBA08A12H1A	CR180-ND	.85
12	7.0-13.8	80 x 25.5	2.08	39.6	3.78	32.0	P11035-ND	8.25	7.10	6.11	5.48	4.95	FBA08A12H1AZ	CR180-ND	.85
12	7.0-13.8	80 x 25.5	2.08	39.6	3.78	32.0	P11036-ND	8.50	7.31	6.29	5.65	5.10	FBA08A12H1BS	CR180-ND	.85
12	7.0-13.8	80 x 25.5	1.49	32.1	2.51	28.0	P9737-ND	8.25	7.10	6.11	5.48	4.95	FBA08A12M1A	CR180-ND	.85
12	7.0-13.8	80 x 25.5	1.49	32.1	2.51	28.0	P11038-ND	8.50	7.31	6.29	5.65	5.10	FBA08A12M1BS	CR180-ND	.85
12	7.0-13.8	80 x 25.5	1.49	32.1	2.51	28.0	P11039-ND	8.75	7.53	6.48	5.81	5.25	FBA08A12M1BX	CR180-ND	.85
12	7.0-13.8	80 x 25.5	0.82	24.0	1.57	21.0	P9736-ND	8.25	7.10	6.11	5.48	4.95	FBA08A12L1A	CR180-ND	.85
12	7.0-13.8	80 x 25.5	0.82	24.0	1.57	21.0	P11037-ND	8.25	7.10	6.11	5.48	4.95	FBA08A12L1AZ	CR180-ND	.85
24	14-27.6	80 x 25.5	2.52	39.6	3.78	32.0	P9741-ND	8.25	7.10	6.11	5.48	4.95	FBA08A24H1A	CR180-ND	.85
24	14-27.6	80 x 25.5	1.70	32.1	2.51	28.0	P9740-ND	8.25	7.10	6.11	5.48	4.95	FBA08A24M1A	CR180-ND	.85
24	14-27.6	80 x 25.5	1.30	24.0	1.57	21.0	P9739-ND	8.25	7.10	6.11	5.48	4.95	FBA08A24L1A	CR180-ND	.85
12	7.0-13.8	92 x 25.5	5.16	68.8	5.0	43.0	P9760-ND	8.25	7.10	6.11	5.48	4.95	FBA09A12U1A	CR220-ND	.68
12	7.0-13.8	92 x 25.5	5.16	68.8	5.0	43.0	P11044-ND	8.50	7.31	6.29	5.65	5.10	FBA09A12U1BO	CR220-ND	.68
12	7.0-13.8	92 x 25.5	2.70	56.8	3.98	35.0	P9744-ND	8.25	7.10	6.11	5.48	4.95	FBA09A12H1A	CR220-ND	.68
12	7.0-13.8	92 x 25.5	2.70	56.8	3.98	35.0	P11040-ND	8.25	7.10	6.11	5.48	4.95	FBA09A12H1AZ	CR220-ND	.68
12	7.0-13.8	92 x 25.5	2.70	56.8	3.98	35.0	P11041-ND	8.50	7.31	6.29	5.65	5.10	FBA09A12H1BO	CR220-ND	.68
12	7.0-13.8	92 x 25.5	2.70	56.8	3.98	35.0	P11042-ND	8.75	7.53	6.48	5.81	5.25	FBA09A12H1BX	CR220-ND	.68
12	7.0-13.8	92 x 25.5	1.80	48.0	3.00	30.0	P9743-ND	8.25	7.10	6.11	5.48	4.95	FBA09A12M1A	CR220-ND	.68
12	7.0-13.8	92 x 25.5	1.32	42.7	2.30	27.0	P9742-ND	8.25	7.10	6.11	5.48	4.95	FBA09A12L1A	CR220-ND	.68
12	7.0-13.8	92 x 25.5	1.32	42.7	2.30	27.0	P11043-ND	8.75	7.53	6.48	5.81	5.25	FBA09A12L1BX	CR220-ND	.68
24	12-27.6	92 x 25.5	7.2	68.8	4.6	47.0	P11096-ND *NEW!*	8.50	7.31	6.29	5.65	5.10	FBA09A24U1BX	CR220-ND	.68
24	14-27.6	92 x 25.5	3.36	56.8	3.98	35.0	P9747-ND	8.25	7.10	6.11	5.48	4.95	FBA09A24H1A	CR220-ND	.68
24	14-27.6	92 x 25.5	3.36	56.8	3.98	35.0	P11045-ND	8.25	7.10	6.11	5.48	4.95	FBA09A24H1AZ	CR220-ND	.68
24	14-27.6	92 x 25.5	3.36	56.8	3.98	35.0	P11046-ND	8.50	7.31	6.29	5.65	5.10	FBA09A24H1BS	CR220-ND	.68
24	14-27.6	92 x 25.5	3.36	56.8	3.98	35.0	P11047-ND	8.75	7.53	6.48	5.81	5.25	FBA09A24H1BX	CR220-ND	.68
24	14-27.6	92 x 25.5	2.64	48.0	3.00	30.0	P9746-ND	8.25	7.10	6.11	5.48	4.95	FBA09A24M1A	CR220-ND	.68
24	14-27.6	92 x 25.5	1.92	42.7	2.30	27.0	P9745-ND	8.25	7.10	6.11	5.48	4.95	FBA09A24L1A	CR220-ND	.68
12	7.0-13.8	120 x 38	6.12	114.7	8.0	45.5	P9761-ND	18.13	15.59	13.42	12.04	10.88	FBA12G12U1A	CR210-ND	1.79
12	7.0-13.8	120 x 38	5.52	103.8	6.80	41.5	P9750-ND	18.13	15.59	13.42	12.04	10.88	FBA12G12H1A	CR210-ND	1.79
12	7.0-13.8	120 x 38	5.52	103.8	6.80	41.5	P11048-ND	18.13	15.59	13.42	12.04	10.88	FBA12G12H1AZ	CR210-ND	1.79
12	7.0-13.8	120 x 38	5.52	103.8	6.80	41.5	P11049-ND	18.38	15.81	13.60	12.21	11.03	FBA12G12H1BS	CR210-ND	1.79
12	7.0-13.8	120 x 38	5.52	103.8	6.80	41.5	P11050-ND	18.63	16.02	13.79	12.37	11.18	FBA12G12H1BX	CR210-ND	1.79
12	7.0-13.8	120 x 38	4.08	86.5	4.80	35.5	P9749-ND	18.13	15.59	13.42	12.04	10.88	FBA12G12M1A	CR210-ND	1.79
12	7.0-13.8	120 x 38	2.16	68.9	3.30	30.0	P9748-ND	18.13	15.59	13.42	12.04	10.88	FBA12G12L1A	CR210-ND	1.79
24	14-27.6	120 x 38	5.52	103.8	6.80	41.5	P9753-ND	18.13	15.59	13.42	12.04	10.88	FBA12G24H1A	CR210-ND	1.79
24	14-27.6	120 x 38	5.52	103.8	6.80	41.5	P11080-ND	18.63	16.02	13.79	12.37	11.18	FBA12G24H1BX	CR210-ND	1.79
24	14-27.6	120 x 38	3.84	86.5	4.80	35.5	P9752-ND	18.13	15.59	13.42	12.04	10.88	FBA12G24M1A	CR210-ND	1.79
24	14-27.6	120 x 38	2.64	68.9	3.30	30.0	P9751-ND	18.13	15.59	13.42	12.04	10.88	FBA12G24L1A	CR210-ND	1.79

Manufacturer Part Number Ending Code:
AZ - Solid Corner Housing **BS** - Locked Rotor Alarm Sensor **BX** - 2 PPR Speed Sensor (TAC Output) **BO** - Locked Rotor Alarm Sensor and Solid Corner Housing **S** - Locked Rotor Alarm Sensor

DC Blowers Scirocco Blowers

Specifications:
- Operating Temperature: -10°C to +60°C
- Storage Temperature: -40°C to +75°C
- Blowers With Hydro-Wave Bearing Technology



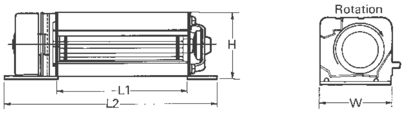
Model Type	Dimensions(mm)								
	A	B	C	D	E	F	G	H	I
FAL-6F	65.8	28.1	55.7	111.4	60.7	107.1	76	99	97
FAL-5F	50	28	37	76	41	76	47	68	68
FAL-3F	33.2	20	26.8	50	26.8	50	29.6	43	43

Operating Volt. (VDC)		Input Current (mA)	Air Power (W)	Static Flow (m3/min/CFM)	Pressure (mmQa/InchAq)	Acoustic Noise	Digi-Key Part No.	Price Each					Panasonic Part No.
Nom.	Range							1	5	10	50	100	
12	7-13.8	500	6.00	0.65/22.97	18/0.71	45	P9754-ND	30.00	25.80	22.20	19.92	18.00	FAL6F12LH
12	7-13.8	280	3.36	0.53/18.73	11.2/0.44	40	P9755-ND	30.00	25.80	22.20	19.92	18.00	FAL6F12LL
24	14-27.6	295	7.08	0.67/23.7	19.7/0.78	45	P9763-ND	30.00	25.80	22.20	19.92	18.00	FAL6F24LH
24	14-27.6	155	3.72	0.53/18.7	11.5/0.45	40	P9764-ND	30.00	25.80	22.20	19.92	18.00	FAL6F24LL
12	7-13.8	210	2.52	0.3/10.60	10.5/0.41	35	P9756-ND	27.50	23.65	20.35	18.26	16.50	FAL5F12LH
12	7-13.8	145	1.74	0.25/8.83	6.1/0.24	29	P9757-ND	27.50	23.65	20.35	18.26	16.50	FAL5F12LL
24	14-27.6	150	3.50	0.26/9.18	7.2/0.28	40	P9765-ND	27.50	23.65	20.35	18.26	16.50	FAL5F24LH
24	14-27.6	100	2.40	0.20/7.06	4.1/0.16	37.5	P9766-ND	27.50	23.65	20.35	18.26	16.50	FAL5F24LL
5	4.5-6	320	1.60	.09	6.0	34	P9772-ND	21.25	18.28	15.73	14.11	12.75	FAL3F05LL
5	4.5-6	570	2.85	.12	10.0	40	P9773-ND	21.25	18.28	15.73	14.11	12.75	FAL3F05LH
12	7-13.8	170	2.04	.09	6.0	34	P9774-ND	21.25	18.28	15.73	14.11	12.75	FAL3F12LL
12	7-13.8	270	3.24	.12	10.0	40	P9775-ND	21.25	18.28	15.73	14.11	12.75	FAL3F12LH
24	14-27.6	150	3.60	.12	10.0	40	P9776-ND	21.25	18.28	15.73	14.11	12.75	FAL3F24LH

Cross Flow Fans *“Not Recommended for New Design”*

DESIGN: • Motor: DC Brushless 2 phase half wave drive • Bearing: Sleeve with Molded monobody housing • Blade: Molded, 1.30” (33mm) dia., 1.57” (39.9mm) long multiple blades • Mounting: L-Shaped Molded Bracket • Lead Wires: UL 1007, AWG 26

Operating Volt. (VDC)		Power (W)	Input Flow (CFM)	Air Pressure (mmH$_2$O)	Air Noise (dB-A)	Digi-Key Part No.	Price Each				Panasonic Part No.
Nom.	Range						1	5	10	50	
12	10.2-13.8	1.95	10.6	1.3	37.0	P9711-ND	26.50	22.79	19.61	17.60	FCB34AA12
24	20.4-27.6	2.60	10.6	1.5	38.2	P9712-ND	26.50	22.79	19.61	17.60	FCB34AA24
12	10.2-13.8	4.08	21.6	3.0	42.0	P9721-ND	27.25	23.44	20.17	18.10	FCB34AB12
24	20.4-27.6	3.94	22.7	2.4	42.0	P9722-ND	27.25	23.44	20.17	18.10	FCB34AB24
12	10.2-13.8	4.50	28.3	2.0	43.0	P9713-ND	28.05	24.13	20.76	18.63	FCB34AC12
24	20.4-27.6	4.70	28.3	1.9	42.0	P9714-ND	28.05	24.13	20.76	18.63	FCB34AC24
12	10.2-13.8	4.50	35.3	2.1	42.0	P9715-ND	28.75	24.73	21.28	19.09	FCB34AD12
24	20.4-27.6	5.50	38.9	2.2	41.3	P9718-ND	29.50	25.37	21.83	19.59	FCB34AE24



Model Type	Dimensions (mm)			
	L1	L2	H	W
FCB-34AA□□	77.98	134.11	44.96	50.04
FCB-34AB□□	117.09	173.48	44.96	50.04
FCB-34AC□□	155.96	212.09	44.96	50.04
FCB-34AD□□	195.07	250.95	44.96	50.04
FCB-34AE□□	233.93	290.07	44.96	50.04

ebm
INDUSTRIES, INC.

Fans

UL yellow card E38324, CSA file 27697, VDE file 3041

Fig. 1

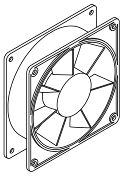


Fig. 2

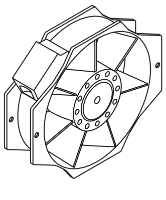


Fig. 3

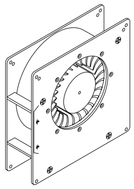


Fig.4

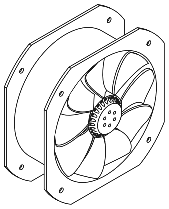


Fig. 5

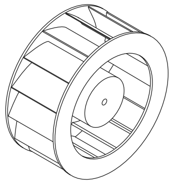


Fig.	Size (mm)	Voltage (DC)	Voltage Range (DC)	Bearing	Watts	CFM @ O"	dBA	Leads	Digi-Key Part No.	Price Each				EBM Ind. Part No.
										1	25	50	100	
Brushless DC Fans														
1	40 x 10	12	10.2-13.8	Sleeve	0.8	6	28	28 AWG 12.2" Leads	381-1081-ND	11.75	9.00	8.25	7.25	412FH
	40 x 10	24	20.4-27.6	Sleeve	0.7	5	26	28 AWG 12.2" Leads	381-1082-ND	11.99	9.18	8.42	7.40	414F
1	40 x 20	12	10.2-13.8	Sleeve	0.9	6	26	28 AWG 12.2" Leads	381-1069-ND	12.81	9.81	9.00	7.91	412
	40 x 20	24	20.4-27.6	Sleeve	0.9	6	26	28 AWG 12.2" Leads	381-1070-ND	13.28	10.17	9.33	8.20	414
1	40 x 25	12	10-14	Ball	3.9	14	44	28 AWG 12.2" Leads	381-1125-ND *NEW!*	31.49	24.12	22.11	19.43	412JHH
	40 x 25	24	20-28	Ball	3.9	14	44	28 AWG 12.2" Leads	381-1126-ND *NEW!*	31.49	24.12	22.11	19.43	414JHH
1	60 x 25	12	6-15	Ball	2.4	24	40	22 AWG 12.2" Leads	381-1071-ND	25.38	19.44	17.82	15.66	612
	60 x 25	24	12-27	Ball	3.4	27	44	22 AWG 12.2" Leads	381-1097-ND	27.26	20.88	19.14	16.82	614H
	60 x 25	24	12-30	Ball	2.7	24	40	22 AWG 12.2" Leads	381-1072-ND	25.38	19.44	17.82	15.66	614
	60 x 25	12	6-15	Ball	1.3	18	33	22 AWG 12.2" Leads	381-1000-ND	25.38	19.44	17.82	15.66	612M
	60 x 25	12	6-15	Ball	0.7	12	26	22 AWG 12.2" Leads	381-1038-ND	22.46	19.44	17.80	15.17	612L
	60 x 25	24	6-15	Ball	0.8	12	26	22 AWG 12.2" Leads	381-1039-ND	22.46	19.44	17.80	15.17	614L
	60 x 25	24	6-15	Ball	1.4	18	33	22 AWG 12.2" Leads	381-1040-ND	25.38	19.44	17.82	15.66	614M
1	70 x 15	12	8-13.8	Sintec	1.7	26	38	22 AWG 12.2" Leads	381-1128-ND *NEW!*	20.09	15.39	14.11	12.40	712F
	70 x 15	24	12-30	Sintec	1.7	26	38	22 AWG 12.2" Leads	381-1127-ND *NEW!*	20.09	15.39	14.11	12.40	714F
1	80 x 25	12	7-15	Ball	0.8	21	21	24 AWG 12.2" Leads	381-1101-ND	19.00	16.47	15.05	12.80	8412L
	80 x 25	12	7-15	Ball	2.4	33	35	24 AWG 12.2" Leads	381-1010-ND	19.00	16.47	15.05	12.80	8412
	80 x 25	24	12-28	Ball	2.4	33	35	24 AWG 12.2" Leads	381-1011-ND	19.00	16.47	15.05	12.80	8414
	80 x 25	12	7-15	Ball	1.4	27	29	24 AWG 12.2" Leads	381-1049-ND	19.00	16.47	15.05	12.80	8412M
	80 x 25	24	12-28	Ball	1.4	27	29	24 AWG 12.2" Leads	381-1050-ND	22.21	17.01	15.60	13.71	8414M
1	80 x 32	48	6-15	Ball	2.2	32	36	24 AWG 12.2" Leads	381-1077-ND	28.20	21.60	19.80	17.40	8318
	80 x 32	12	6-15	Ball	2.2	32	36	22 AWG 12.2" Leads	381-1008-ND	25.65	22.23	20.35	17.35	8312
	80 x 32	12	6-15	Ball	1.8	28	34	22 AWG 12.2" Leads	381-1048-ND	25.65	22.23	20.35	17.35	8312M
1	80 x 38	12	8-16	Sleeve	3	35	38	22 AWG 12.2" Leads	381-1099-ND	48.55	41.94	38.55	32.81	8112G
	80 x 38	12	8-16	Ball	3	35	39	22 AWG 12.2" Leads	381-1100-ND	52.60	45.45	41.81	35.50	8112K
	80 x 38	24	18-30	Ball	3	35	39	22 AWG 12.2" Leads	381-1047-ND	52.60	45.45	41.81	35.50	8124K
1	92 x 25	12	7-15	Ball	1.3	36	27	24 AWG 12.2" Leads	381-1080-ND	26.05	17.19	15.80	13.45	3412L
	92 x 25	12	7-15	Ball	1.8	42	32	24 AWG 12.2" Leads	381-1012-ND	26.05	17.19	15.80	13.45	3412M
	92 x 25	24	12-28	Ball	2.6	49	36	24 AWG 12.2" Leads	381-1001-ND	19.90	17.19	15.80	13.45	3414
	92 x 25	24	12-28	Ball	1.8	42	32	24 AWG 12.2" Leads	381-1013-ND	19.90	17.19	15.80	13.45	3414M
1	92 x 32	12	6-15	Ball	2.4	47	37	22 AWG 12.2" Leads	381-1073-ND	26.05	22.50	20.70	17.60	3312
	92 x 32	24	12-28	Ball	2.4	47	37	22 AWG 12.2" Leads	381-1074-ND	26.05	22.50	20.70	17.60	3314
1	119 x 25	12	7-13	Ball	3	82	38	24 AWG 12.2" Leads	381-1024-ND	27.03	20.70	18.98	16.68	4412FM
	119 x 25	24	12-28	Ball	3	82	38	24 AWG 12.2" Leads	381-1025-ND	25.19	21.78	20.03	17.02	4414FM
1	119 x 32	12	6-15	Ball	5	100	45	Leads, Hall Effect	381-1088-ND	31.26	23.94	21.95	19.29	4312S
	119 x 32	12	6-15	Ball	5	100	45	22 AWG 12.2" Leads	381-1002-ND	29.38	22.50	20.63	18.13	4312
	119 x 32	12	6-15	Ball	2.6	82	39	22 AWG 12.2" Leads	381-1021-ND	29.38	22.50	20.63	18.13	4312M
	119 x 32	24	12-28	Ball	5	100	45	22 AWG 12.2" Leads	381-1003-ND	29.38	22.50	20.63	18.13	4314
	119 x 32	24	12-28	Ball	2.6	82	39	22 AWG 12.2" Leads	381-1023-ND	29.38	22.50	20.63	18.13	4314M
	119 x 32	48	36-53	Ball	5	100	45	22 AWG 12.2" Leads	381-1004-ND	32.55	24.93	22.86	20.09	4318
1	119 x 38	12	7-14.5	Ball	5.3	108	49	22 AWG 12.2" Leads	381-1084-ND	35.30	30.51	28.05	23.80	4212H
	119 x 38	24	12-28	Ball	5.3	108	49	22 AWG 12.2" Leads	381-1085-ND	35.30	30.51	28.05	23.80	4214H
	119 x 38	48	36-56	Ball	5.3	108	49	.110 x .02" Terminals	381-1087-ND	42.15	36.45	33.45	28.45	4298H
	119 x 38	12	7-14.5	Ball	1.2	51	29	22 AWG 12.2" Leads	381-1016-ND	32.90	28.44	26.15	22.20	4212L
	119 x 38	12	7-14.5	Ball	2.2	75	38	22 AWG 12.2" Leads	381-1017-ND	32.90	28.44	26.15	22.20	4212M
	119 x 38	12	7-15	Ball	4.5	106	49	.110" x .02" Terminals	381-1014-ND	48.65	37.26	34.16	30.02	4182NX
	119 x 38	24	12-29	Ball	4.5	106	49	.110" x .02" Terminals	381-1015-ND	48.65	37.26	34.16	30.02	4184NX
1	127 x 38	12	8-16	Ball	4.5	118	44	.110" x .02" Terminals	381-1115-ND	60.15	46.35	38.40	36.05	W2G115-AD15-13
	127 x 38	24	16-28	Ball	12	160	52	.118" x .02" Terminals	381-1068-ND	74.55	57.51	47.60	44.71	W2G115-AG71-12
2	172 x 51	24	12-28	Ball	26	283	61	.118" x .02" Terminals	381-1043-ND	93.05	71.82	59.40	55.85	6224NH
	172 x 51	48	28-60	Ball	17	241	55	.118" x .02" Terminals	381-1045-ND	78.26	59.94	54.95	48.29	6248N
	172 x 51	24	12-28	Ball	18	241	57	.118" x .02" Terminals	381-1005-ND	78.26	59.94	54.95	48.29	6424
	172 x 51	24	12-28	Ball	26	283	61	.118" x .02" Terminals	381-1046-ND	82.60	72.28	66.08	57.82	6424H
DC Flatpaks														
3	120 x 40	12	7-15	Ball	6	32	55	22 AWG 13.4" Leads	381-1059-ND	50.17	43.29	39.84	33.86	RL90-18/12N
	120 x 40	24	12-28	Ball	5	32	55	22 AWG 13.4" Leads	381-1060-ND	50.17	43.29	39.84	33.86	RL90-18/14N

Please Note: Custom Fan Cable Assemblies available upon request.

(Continued)

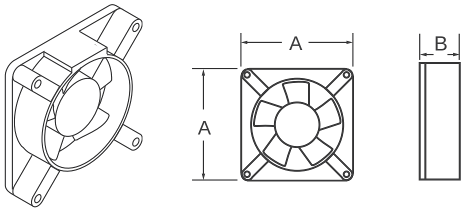
Fig.	Size (mm)	Voltage (DC)	Voltage Range (DC)	CFM @ O”	dBA	Watts	Impeller Material	Digi-Key Part No.	Price Each 1	25	50	100	EBM Ind. Part No.
							NEW! Motorized Impellers NEW!						
5	102 x 52	12	11-13	90	69	13.5	Plastic	381-1129-ND	93.77	71.82	65.84	57.86	RER101-36/12/12P
	102 x 52	48	43-53	90	69	13.5	Plastic	381-1130-ND	105.99	81.18	74.42	65.40	RER101-36/48/2P

Fig.	Size (mm)	Voltage (AC)	Input Watts	CFM @ O”	dBA	Impeller Dimensions Inches (mm)	Capacitor	Impeller Material	Digi-Key Part No.	Price Each 1	25	50	100	EBM Ind. Part No.
						AC Backward Curved Motorized Impellers								
5	220 x 71	115	100	530	70	8.66” (220) x 2.8” (71)	10	Plastic	381-1110-ND	76.80	67.20	61.44	53.76	R2E220-AA44-23
	220 x 71	230	100	530	70	8.66” (220) x 2.8” (71)	2	Plastic	381-1109-ND	76.80	67.20	61.44	53.76	R2E220-AA40-23

Fig.	Size (mm)	Bearing	Voltage (AC)	Input Watts	CFM @ O"	dBA	Leads	Digi-Key Part No.	Price Each 1	25	50	100	EBM Ind. Part No.
							AC Tubeaxial Fans						
1	80 x 38	Sleeve	115	8	21	21	18 AWG 17.3" Leads	381-1057-ND	31.96	24.48	22.44	19.72	8830N
	80 x 38	Sleeve	115	11	28	28	18 AWG 17.3" Leads	381-1106-ND	27.55	23.76	21.85	18.55	8800N
	80 x 38	Sleeve	115	11	36	34	18 AWG 12.2" Leads	381-1103-ND	24.35	21.06	19.35	16.45	8500N
	80 x 38	Sleeve	115	11	36	34	18 AWG 12.2" Leads	381-1102-ND	32.00	27.63	25.40	21.61	8500DP
	80 x 38	Sleeve	230	11	36	34	18 AWG 12.2" Leads	381-1105-ND	26.45	22.86	21.00	17.85	8550N
	80 x 38	Ball	115	11	36	35	22 AWG 12.2" Leads	381-1104-ND	39.25	30.06	27.56	24.22	8506N
	80 x 38	Sleeve	115	11	34	41	.110"x.02"Terminals	381-1051-ND	24.41	23.58	21.70	18.45	8500A
	80 x 38	Sleeve	115	11	36	34	22 AWG 12.2" Leads	381-1052-ND	24.35	21.06	19.35	16.45	8500VW
	80 x 38	Ball	115	11	36	34	22 AWG 12.2" Leads	381-1053-ND	38.65	33.39	30.70	26.10	8506VW
	80 x 38	Ball	230	11	36	34	22 AWG 12.2" Leads	381-1055-ND	40.75	35.28	32.35	27.55	8556VW
1	92 x 25	Ball	115	9	41	40	.110"x.02"Terminals	381-1076-ND	35.60	27.27	25.00	21.97	3906
1	92 x 38	Ball	115	11	53	42	18 AWG 12.2" Leads	381-1075-ND	43.59	33.39	30.61	26.90	3606
1	119 x 25	Ball	115	8	59	35	.110"x.02"Terminals	381-1107-ND	38.54	29.52	27.06	23.78	9906L
	119 x 25	Ball	115	12	79	42	.110"x.02"Terminals	381-1078-ND	35.45	30.60	28.15	23.90	9906
	119 x 25	Ball	230	12	79	42	.110"x.02"Terminals	381-1079-ND	38.54	29.52	27.06	23.78	9956
1	119 x 38	Sleeve	115	18	106	50	.118"x.02"Terminals	381-1089-ND	26.56	20.34	18.65	16.39	4600N
	119 x 38	Sleeve	115	18	106	50	.118"x.02"Terminals	381-1090-ND	23.55	20.34	18.70	15.90	4600X
	119 x 38	Sleeve	230	18	106	50	.118"x.02"Terminals	381-1093-ND	27.00	23.40	21.45	18.26	4650N
	119 x 38	Sleeve	230	18	106	50	.118"x.02"Terminals	381-1094-ND	27.00	23.40	21.45	18.26	4650X
	119 x 38	Ball	115	18	106	51	.118"x.02"Terminals	381-1091-ND	38.31	29.34	26.90	23.64	4606N
	119 x 38	Ball	230	18	106	51	.118"x.02"Terminals	381-1095-ND	39.95	30.60	28.05	24.65	4656X
	119 x 38	Ball	115	18	106	45	.110"x.02"Terminals	381-1030-ND	37.45	32.40	29.75	25.31	4606VX
	119 x 38	Ball	230	18	106	45	.110"x.02"Terminals	381-1034-ND	41.13	31.50	28.88	25.38	4656VX
	119 x 38	Sleeve	115	10	56	28	.110"x.02"Terminals	381-1036-ND	29.88	25.92	23.75	20.19	4800Z
	119 x 38	Sleeve	230	10	56	28	.110"x.02"Terminals	381-1037-ND	32.40	28.08	25.70	21.91	4850Z
	119 x 38	Sleeve	115	12	71	33	.110"x.02"Terminals	381-1026-ND	28.45	24.57	22.60	19.25	4530Z
	119 x 38	Sleeve	115	18	106	45	.110"x.02"Terminals	381-1029-ND	23.55	20.34	18.70	15.90	4600Z
	119 x 38	Sleeve	230	18	106	45	.110"x.02"Terminals	381-1033-ND	27.00	23.40	21.45	18.26	4650Z
	119 x 38	Ball	115	18	106	45	.110"x.02"Terminals	381-1031-ND	37.45	32.40	29.75	25.31	4606Z
	119 x 38	Ball	115	18	106	45	22 AWG 12.2" Leads	381-1092-ND	37.45	32.40	29.75	25.31	4606ZW
	119 x 38	Ball	230	18	106	45	.110"x.02"Terminals	381-1035-ND	42.07	32.22	29.54	25.96	4656Z
1	127 x 38	Ball	115	17	121	47	.118"x.02"Terminals	381-1119-ND	48.65	37.26	34.16	30.02	W2K121-AA15-13
	127 x 38	Sleeve	115	17	121	47	.118"x.02"Terminals	381-1120-ND	39.30	30.33	25.10	23.60	W2K121-AA15-39
1	135 x 38	Ball	230	26	159	50	.110"x.02"Terminals	381-1096-ND	65.95	56.97	52.35	44.50	5656S
2	150 x 55	Ball	115	38	225	52	20 AWG 13.3" Leads	381-1121-ND	65.30	50.40	41.71	39.15	W2S130-AA25-01
	150 x 55	Ball	115	46	263	60	20 AWG 13.3" Leads	381-1124-ND	65.30	50.40	41.71	39.15	W2S130-BM15-01
	150 x 55	Ball	230	46	263	60	20 AWG 13.3" Leads	381-1123-ND	67.80	51.93	47.61	41.84	W2S130-BM03-01
2	172 x 51	Ball	115	26	260	58	PSC 0.11" Terminals	381-1065-ND	93.65	72.27	59.80	56.20	W2E143-AA15-01
	172 x 51	Ball	230	29	295	58	PSC 0.11" Terminals	381-1066-ND	93.65	72.27	59.80	56.20	W2E143-AB09-01
4	172 x 150 x 38	Ball	230	24	230	57	0.11" 'Terminals	381-1062-ND	89.55	69.12	57.20	53.75	W2E142-BB01-01
	172 x 150 x 38	Ball	115	24	230	57	0.11" 'Terminals	381-1063-ND	89.55	69.12	57.20	53.75	W2E142-BB05-01
4	225 x 80	Ball	115	80	607	61	Terminal Block	381-1114-ND	135.80	104.76	86.70	81.50	W2E200-HH86-01
							AC Flatpaks						
3	120 x 40	Sleeve	115	20	25	60	18 AWG 12.2" Leads	381-1058-ND	49.35	37.80	34.65	30.45	RL90-18/00
	120 x 40	Sleeve	230	20	25	60	18 AWG 12.2" Leads	381-1061-ND	56.28	43.11	39.52	34.73	RL90-18/50

Please Note: Custom Fan Cable Assemblies available upon request.

SUNON Thin Cooling Fans and Blowers



General

Motor: Patented brushless DC motor design

Fan Housing: Injection molded non-flammable black thermoplastic UL 94V-O rating

Blower Housing: See Below

Impeller: Injection molded non-flammable black thermoplastic UL 94V-O rating

Bearing: Precision, life-lubricated ball bearing system; Precision, oil-impregnated sintered sleeve bearing system.

Insulation: Class E integral ground system rated @ 100°C

Insulation Resistance: More than 500M ohm between internal stator and lead wire (+) measured by DC 500V

Dielectric Strength: 500VAC for one minute

Safety Protection: Electronic locked rotor protected

Operating Temperature: -10°C to +70°C for sleeve bearing version; -20°C to +80°C for ball bearing version (fans); 0°C to +70°C (blowers)

Storage Temperature: -40°C to +70°C (fans); -20°C to +70°C (blowers)

Operating Voltage: Rated voltage ±15%

Life Expectancy: 30,000 hours

Blower Features

- Exceptional cooling performance, radiating blower with one directional exhaust
- Low noise via highly efficient fan blade design
- Low power consumption and high motor efficiency through radial gap type motor design

Dim. (mm) A x B	Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Motor No. of Poles	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1” or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each				Sunon Part No.
												1	10	25	50	
Plastic Ultra-Thin Brushless DC Fans																
17 x 8	5	4-6	Ball	8	0.09	0.60	12000	0.80	0.12	25	259-1116-ND	19.24	14.52	13.60	12.79	KDE0517PDB2-8(2)V
20 x 8	5	4-6	Ball	8	0.11	0.55	15000	1.90	0.18	29	259-1081-ND	19.61	14.52	13.60	12.79	KDE0501PDB1-8(2)V
					0.09	0.60	12000	1.00	0.15	26.5	259-1117-ND	19.24	14.52	13.60	12.79	KDE0501PDB2-8(2)V
25 x 6	5	3-6	Ball	8	0.16	0.8	13000	3.0	0.22	31	259-1189-ND	13.70	10.15	9.51	8.94	KDE0502PEB1-8(MS.N)
					0.11	0.6	11500	2.7	0.18	26	259-1187-ND	13.65	10.15	9.51	8.94	KDE0502PEB2-8(MS.N)
					0.08	0.4	7000	1.4	0.07	16	259-1115-ND	13.70	10.15	9.51	8.94	KDE0502PEB3-8(MS.N)
30 x 6	5	4-6	Ball	8	0.11	0.90	9500	4.90	0.15	25	259-1119-ND	13.44	10.17	9.51	8.95	KDE0503PEB1-8(MS.N)
		3-6			0.15	0.75	7500	4.3	0.08	24.5	259-1190-ND	13.44	10.17	9.51	8.95	KDE0503PEB2-8(MS.N)
		3.5-6			0.07	0.35	5500	2.4	0.06	16.5	259-1191-ND	13.44	10.17	9.51	8.95	KDE0503PEB3-8(MS.N)
40 x 6	5	3-6	Ball	8	0.21	1.0	7000	5.9	0.10	32	259-1192-ND	13.29	10.18	9.52	8.94	KDE0504PEB1-8(MS)
					0.11	0.55	6000	5.3	0.07	28	259-1184-ND	13.29	10.18	9.52	8.94	KDE0504PEB2-8(MS)
					0.09	0.45	5000	4.5	0.06	23	259-1186-ND	13.29	10.18	9.52	8.94	KDE0504PEB3-8(MS)
Plastic Thin Brushless DC Fans																
20 x 10	5	4-6	Ball	8	0.12	0.6	10000	1.45	0.15	22	259-1125-ND	18.20	13.42	12.55	11.80	KDE0501PFB2-8.N(2)(V)
25 x 10	5	3-6	Vapo	8	0.12	0.6	13000	3.5	0.25	23	259-1265-ND *NEW!*	18.82	14.49	13.56	12.76	GM0502PFV1-8M
		4-6	Ball	8	0.12	0.9	10000	2.4	0.16	24	259-1012-ND	14.07	10.45	9.78	9.19	KDE0502PFB1-8V
					0.12	0.6	10000	2.0	0.16	24	259-1062-ND	14.07	10.45	9.78	9.19	KDE0502PFB2-8V
					0.06	0.3	7000	1.3	0.09	23	259-1013-ND	14.07	10.45	9.78	9.19	KDE0502PFB3-8V
	12	10.2-13.8	Ball	8	0.10	1.7	10000	2.4	0.16	24	259-1014-ND	14.07	10.45	9.78	9.19	KDE1202PFB1-8V
					0.10	.72	10000	2.0	0.16	24	259-1063-ND	14.07	10.45	9.78	9.19	KDE1202PFB2-8V
					0.08	0.9	7000	1.3	0.09	23	259-1015-ND	14.07	10.45	9.78	9.19	KDE1202PFB3-8V
30 x 10	5	4-6	Ball	8	0.18	0.9	9500	3.5	0.14	22.5	259-1016-ND	14.07	10.45	9.78	9.19	KDE0503PFB1-8V
					0.12	0.6	8000	3.0	0.11	20.5	259-1064-ND	14.07	10.45	9.78	9.19	KDE0503PFB2-8V
	12	10.2-13.8	Ball	8	0.13	.96	9500	3.5	0.14	22.5	259-1018-ND	14.07	10.45	9.78	9.19	KDE1203PFB1-8V
					0.12	.84	8000	3.0	0.11	20.5	259-1065-ND	14.07	10.45	9.78	9.19	KDE1203PFB2-8V
					0.08	0.9	5500	2.3	0.07	18	259-1019-ND	14.07	10.93	10.23	9.61	KDE1203PFB3-8V
35 x 10	5	3.5-6	Ball	8	0.20	1.0	7500	6.5	0.12	25.5	259-1185-ND	14.79	11.57	10.83	10.17	KDE0535PFB1-8(MS)OC
					0.14	0.7	6000	5.2	0.08	21	259-1188-ND	14.79	11.57	10.83	10.17	KDE0535PFB2-8(MS)OC
					0.07	0.35	4500	3.8	0.05	18	259-1182-ND	14.79	11.57	10.83	10.17	KDE0535PFB3-8(MS)OC
	12	5-13.8	Ball	8	0.08	1.0	7500	6.5	0.12	25.5	259-1183-ND	14.79	11.57	10.83	10.17	KDE1235PFB1-8(MS)
					0.06	0.7	6000	5.2	0.08	19.5	259-1181-ND	14.79	11.57	10.83	10.17	KDE1235PFB2-8(MS)
					0.06	0.7	4500	3.8	0.05	18	259-1180-ND	14.79	11.57	10.83	10.17	KDE1235PFB3-8(MS)
40 x 10	5	3.5-6	Ball	4	0.20	1.0	7500	7.5	0.17	28	259-1267-ND *NEW!*	8.24	5.90	5.60	5.22	KDE0504PFB1 OC
		3-6	Ball	4	0.16	0.8	7400	7.3	0.18	31	259-1271-ND *NEW!*	9.36	6.70	6.37	5.94	KDE0504PFB1 MS.M
		4-6	Sleeve	8	0.15	0.7	7000	6.6	0.17	25	259-1132-ND	6.89	4.86	4.64	4.26	KDE0504PFS1-8
					0.11	0.6	6000	5.6	0.13	24	259-1133-ND	6.89	4.86	4.64	4.26	KDE0504PFS2-8
					0.08	0.4	4500	4.5	0.09	22.8	259-1134-ND	6.89	4.86	4.64	4.26	KDE0504PFS3-8
	12	5-13.8	Ball	4	0.12	1.4	8400	8.3	0.19	34.4	259-1193-ND	7.23	5.18	4.92	4.59	KD1204PFB1 H
		5-13.8	Ball		0.08	1.0	7400	7.3	0.18	31	259-1266-ND *NEW!*	9.36	6.70	6.37	5.94	KDE1204PFB1 MS .M
		5-13.8	Ball		0.09	1.1	6600	6.5	0.15	27	259-1205-ND	7.23	5.18	4.92	4.59	KD1204PFB2 H
		5-13.8	Sleeve		0.12	1.4	7400	7.3	0.17	30.3	259-1199-ND	6.01	4.24	4.05	3.71	KD1204PFS1 H
		6-13.8	Sleeve		0.09	1.1	5500	4.9	0.11	25	259-1208-ND	6.01	4.24	4.05	3.71	KD1204PFS2 H
40x20	12	5-13.8	Sleeve	4	0.07	0.8	6200	7.7	0.16	21	259-1280-ND *NEW!*	4.67	3.60	3.37	3.17	KD1204PKS2 H
40x28	12	10.2-13.8	Ball	4	0.57	6.8	13000	23.5	1.15	51.5	259-1270-ND *NEW!*	23.77	18.29	17.13	16.11	PMD1204PQBX-A(2) F
		10.2-13.8	Ball		0.33	4.0	11300	19	0.80	45	259-1269-ND *NEW!*	19.20	14.78	13.84	13.02	PMD1204PQB1-A(2) F
		10.2-13.8	Ball		0.33	4.0	11000	19	0.78	45	259-1268-ND *NEW!*	17.29	13.31	12.46	11.72	PMD1204PQB1-A(2)
		5-13.8	Ball		0.05	0.6	5200	4.7	0.10	24	259-1198-ND	7.23	5.18	4.92	4.59	KD1204PFB3 H
		6-13.8	Sleeve		0.06	0.7	4200	4.2	0.08	22	259-1200-ND	6.01	4.24	4.05	3.71	KD1204PFS3 H
45 X 10	5	4-6	Ball	8	0.16	0.8	6300	9	0.155	29	259-1145-ND	8.61	6.17	5.87	5.46	KDE0545PFB1-8
					0.12	0.6	5500	7.5	0.12	28	259-1146-ND	8.61	6.17	5.87	5.46	KDE0545PFB2-8
			Sleeve	8	0.12	0.6	5200	7	0.11	27	259-1144-ND	7.01	4.95	4.63	4.35	KDE0545PFS2-8
	12	5-13.8	Ball	4	0.12	1.4	7100	9.5	0.16	33.8	259-1197-ND	7.57	5.43	5.17	4.81	KD1245PFB1 H
		5-13.8	Ball		0.09	1.1	5900	8	0.13	29	259-1207-ND	7.57	5.43	5.17	4.81	KD1245PFB2 H
		5-13.8	Ball		0.09	1.1	5900	8.0	0.13	29	259-1196-ND	7.57	5.43	5.17	4.81	KD1245PFB3 H
		6-13.8	Sleeve		0.10	1.2	5300	7.1	0.12	25.2	259-1202-ND	6.29	4.44	4.16	3.91	KD1245PFS2 H
50 x 10	5	4-6	Ball	8	0.17	0.9	5400	10.2	0.11	31.5	259-1281-ND *NEW!*	8.80	6.31	6.00	5.58	KDE0505PFB1-8
			Sleeve		0.17	0.9	5100	9.6	0.105	30.5	259-1258-ND	7.27	5.13	4.80	4.51	KDE0505PFS1-8
			Sleeve		0.13	0.6	4300	8	0.09	29	259-1259-ND	7.27	5.13	4.80	4.51	KDE0505PFS2-8
	12	5-13.8	Ball	4	0.13	1.6	6000	11.4	0.12	34.7	259-1195-ND	7.73	5.54	5.27	4.91	KD1205PFB1 H
					0.10	1.2	5000	9.5	0.10	28.9	259-1201-ND	7.73	5.54	5.27	4.91	KD1205PFB2 H

* Plastic Housing (Fan Blades - PBT 94V-O)   † Aluminum Housing (Fan Blades - PBT 94V-O)

Please Note: Custom Fan Cable Assemblies available upon request.

(Continued)

SUNON Thin Cooling Fans and Blowers *(Cont.)*

Dim. (mm) A x B	Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Motor No. of Poles	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each				Sunon Part No.
												1	10	25	50	
50 x 10	12	5-13.8	Ball	4	0.07	0.8	4200	8.0	0.08	24.3	259-1194-ND	7.34	5.24	4.99	4.65	KD1205PFB3 H
		6-13.8	Sleeve		0.09	1.1	4500	8.5	0.09	26	259-1206-ND	7.57	5.34	5.00	4.70	KD1205PFS2 H
52 x 15	5	4-6	Ball	4	0.38	1.9	5300	12.7	0.16	27.8	259-1161-ND	9.39	6.93	6.59	6.14	KDE0505PHB2
	12	8-13.8	Ball		0.06	0.7	3700	10.2	0.12	22.5	259-1204-ND	8.15	6.02	5.72	5.33	KD1205PHB3 H
60x15	12	5-13.8	Sleeve	4	0.08	1.0	4700	13	0.17	29	259-1203-ND	6.51	4.70	4.49	4.11	KD1205PHS2 H
			Ball		0.15	1.8	4300	21	0.18	37.5	259-1282-ND *NEW!*	7.22	5.56	5.20	4.90	KD1206PHB1 H
			Ball		0.15	1.8	4300	21	0.18	37.5	259-1283-ND *NEW!*	8.36	6.44	6.03	5.67	KD1206PHB1 H.M
60x25	12	5-13.8	Ball	4	0.17	2.0	4300	22.5	0.20	34	259-1284-ND *NEW!*	7.09	5.46	5.11	4.81	KD1206PTB1 H
			Ball		0.17	2.0	4300	22.5	0.20	34	259-1285-ND *NEW!*	8.24	6.34	5.94	5.59	KD1206PTB1 H.M
			Sleeve		0.16	1.9	4300	22.5	0.20	33.5	259-1286-ND *NEW!*	4.54	3.50	3.28	3.08	KD1206PTS1 H
60x38	12	10.2-13.8	Ball	4	0.85	10.2	8000	52.5	0.93	57.2	259-1272-ND *NEW!*	13.77	10.60	9.93	9.34	PMD1206PMB1-A(2)
80x15	12	5-13.8	Ball	4	0.24	2.9	3300	35	0.17	39.5	259-1273-ND *NEW!*	9.95	7.66	7.17	6.74	KD1208PHB1-A H
											259-1274-ND *NEW!*	10.33	7.95	7.45	7.00	KD1208PHB1-A H.F
80x25	12	5-13.8	Ball	4	0.21	2.3	3000	39.5	0.18	33	259-1275-ND *NEW!*	7.45	5.73	5.37	5.05	KD1208PTB1 (2).H
80x38	12	10.2-13.8	Ball	4	0.76	9.1	5700	84.1	0.74	55.2	259-1276-ND *NEW!*	14.66	11.29	10.57	9.94	PMD1208PMB1-A (2)
92x25	12	5-13.8	Ball	4	0.24	2.5	2700	49.5	0.17	34.5	259-1277-ND *NEW!*	7.57	5.83	5.46	5.14	KD1209PTB1 (2).H
120x38	12	10.2-13.8	Ball	6	0.63	7.6	3150	120	0.34	46.5	259-1261-ND *NEW!*	18.44	14.19	13.29	12.50	KD1212PMBX-6A (F)
	12	10.2-13.8	Ball	4	1.7	21	4000	190	0.72	63	259-1262-ND *NEW!*	27.57	21.22	19.87	18.68	PSD1212PMB1 (2)
	12	10.2-13.8	Ball	4	1.7	21	4000	190	0.70	63	259-1263-ND *NEW!*	29.48	22.69	21.25	19.98	PSD1212PMB1 (2) F
	48	20-55	Ball	6	0.19	9.1	3000	136	0.30	47	259-1264-ND *NEW!*	16.52	12.72	11.91	11.20	KD4812PMB1-6A
Thin Miniature Brushless DC Blowers																
25 x 10	5	4-6	Ball	8	0.125	0.60	10000	0.7	0.23	24	259-1165-ND*	13.55	10.18	9.52	8.94	B0502PFB2-8(MS)
					0.2	0.9	7000	0.90	0.37	25	259-1166-ND†	13.75	10.31	9.80	9.13	B0502AFB1-8(MS)
					0.125	0.60	10000	0.7	0.23	24	259-1167-ND*	13.75	10.31	9.80	9.13	B0502AFB2-8(MS)
30 x 10	5	4-6	Ball	8	0.125	0.65	8000	1.00	0.27	20.5	259-1168-ND*	13.55	10.18	9.52	8.94	B0503PFB2-8(MS)
					0.22	0.95	7000	1.20	0.38	22.5	259-1169-ND†	13.75	10.31	9.80	9.13	B0503AFB1-8(MS)
					0.125	0.65	8000	1.00	0.27	20.5	259-1170-ND*	13.75	10.31	9.80	9.13	B0503AFB2-8(MS)
Ultra-Thin Miniature Brushless DC Blowers																
35 x 4.8	5	4-6	Ball	8	0.16	0.8	9500	1.2	0.33	30	259-1087-ND†	17.47	14.23	13.33	12.53	GB0535ACB1-8 OC
					0.07	0.35	7500	0.95	0.22	24	259-1088-ND†	17.47	14.23	13.33	12.53	GB0535ACB2-8 OC
35 x 6	5	4-6	Ball	8	0.12	0.6	8500	1.4	0.32	31	259-1089-ND†	17.47	14.23	13.33	12.53	GB0535AEB1-8 OC
					0.08	0.4	7000	1.15	0.22	25	259-1090-ND†	17.47	14.23	13.33	12.53	GB0535AEB2-8 OC
35 x 7	5	4-6	Ball	8	0.12	0.6	8000	1.6	0.31	33	259-1091-ND†	17.47	14.23	13.54	12.53	GB0535ADB1-8 OC
					0.08	0.4	6500	1.3	0.22	25	259-1092-ND†	17.47	14.23	13.33	12.53	GB0535ADB2-8 OC

* Plastic Housing (Fan Blades - PBT 94V-O)   † Aluminum Housing (Fan Blades - PBT 94V-O)

Please Note: Custom Fan Cable Assemblies available upon request.

SUNON AC Axial Fans

The Best Choice For Industrial Equipment and Home Appliance. SUNON Axial AC Fans are equipped with a shaded-pole motor, die-cast aluminum frame, and UL 94V-0 rated injection molded non-flammable thermoplastic impeller, and is the most reliable AC Fan in the field. SUNON AC Fans are available in both life-lubricated ball bearing systems and oil-impregnated sintered sleeve bearing systems to meet the diverse needs of the market.

Features: • Frame: Die cast aluminum • Insulation: Class B integral ground system rated @ 120°C • Insulation Resistance: 500 Megohms, minimum at 500VDC • Operating Temperature: -10° to + 70°C

Applications: Game Machines, Copy Machines, Medical Equipment, Vending Machines, Packing Equipment, Air Conditioners, Heaters, Manufacturing Equipment & Electric Products.

Fig. 1

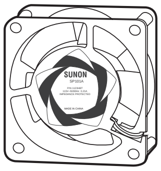


Fig. 2

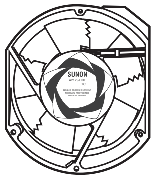


Fig. 3

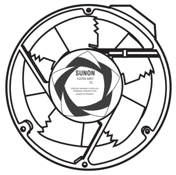


Fig.	Connection Type	Bearing	Rated Voltage	Power (Watts)	Current Amp	RPM	CFM	Dimensions (mm)	Wt.(g)	Digi-Key Part No.	Price Each			Sunon Part No.
											1	10	25	
1	Terminal	Ball	115	22/20	0.26/0.24	2850/3150	97/117	120x38mm	550	259-1093-ND	14.15	11.82	11.07	SP100A-1123XBT
	Terminal	Ball	115	20/18	0.21/0.18	2750/3050	87/107	120x38mm	550	259-1094-ND	14.15	11.82	11.07	SP101A-1123HBT
	Terminal	Ball	115	11/11	0.13/0.11	2150/2300	72/78	120x38mm	550	259-1095-ND	14.15	11.82	11.07	SP103A-1123LBT
	Terminal	Sleeve	115	22/20	0.26/0.24	2700/3100	95/115	120x38mm	550	259-1096-ND	11.16	9.32	8.73	SP100A-1123XST
	Terminal	Sleeve	115	20/18	0.21/0.18	2550/2900	85/105	120x38mm	550	259-1097-ND	11.16	9.32	8.73	SP101A-1123HST
	Terminal	Sleeve	115	11/11	0.13/0.11	2000/2200	70/76	120x38mm	550	259-1098-ND	11.16	9.32	8.73	SP103A-1123LST
	Lead Wires	Ball	115	14/12	0.15/0.13	2400/2850	24/31	80x38mm	340	259-1099-ND	14.69	12.27	11.49	SF11580A-1083HBL
	Lead Wires	Sleeve	115	14/12	0.15/0.13	2300/2750	23/30	80x38mm	340	259-1100-ND	11.91	9.95	9.32	SF11580A-1083HSL
	Lead Wires	Ball	220/240	14/13.5	0.07/0.06	2400/2850	24/31	80x38mm	340	259-1101-ND	14.69	12.27	11.49	SF23080A-2083HBL
	Lead Wires	Sleeve	220/240	14/13.5	0.07/0.06	2300/2750	23/30	80x38mm	340	259-1102-ND	11.91	9.95	9.32	SF23080A-2083HSL
	Lead Wires	Ball	115	13/12	0.12/0.11	2350/2850	30/37	92x25mm	280	259-1103-ND	14.69	12.27	11.49	SF11592A-1092HBL
	Lead Wires	Sleeve	115	13/12	0.12/0.11	2250/2750	29/36	92x25mm	280	259-1104-ND	11.82	9.87	9.25	SF11592A-1092HSL
2	Terminal	Ball	115	27/29	0.24/0.26	2800/3200	202/239	172x150x51mm	908	259-1105-ND	60.66	35.01	32.78	A1175-HBT-TC
	Lead Wires	Ball	115	27/29	0.24/0.26	2800/3200	202/239	172x150x51mm	908	259-1106-ND	60.66	35.01	32.78	A1175-HBL-TC
	Lead Wires	Ball	230	26/31	0.12/0.15	2800/3200	202/239	172x150x51mm	908	259-1107-ND	60.66	35.01	32.78	A2175-HBL-TC
	Terminal	Ball	230	26/31	0.12/0.15	2800/3200	202/239	172x150x51mm	908	259-1108-ND	60.66	35.01	32.78	A2175-HBT-TC
3	Terminal	Ball	115	57/68	0.50/0.60	2150/2000	867/806	254x89mm	2000	259-1278-ND *NEW!*	103.22	79.43	74.38	A1259HBT-TC
	Terminal	Ball	230	56/60	0.24/0.27	2100/1900	850/770	254x89mm	2000	259-1279-ND *NEW!*	103.22	79.43	74.38	A2259HBT-TC
	Lead Wires	Ball	115	25/28	0.25/0.25	1400/1600	600/665	254x90mm	2000	259-1109-ND	103.22	79.43	74.38	A1259-MBL-TC
	Terminal	Ball	115	25/28	0.25/0.25	1400/1600	600/665	254x90mm	2000	259-1110-ND	103.22	79.43	74.38	A1259-MBT-TC
	Lead Wires	Ball	220/240	30/30	0.15/0.13	1400/1650	600/665	254x90mm	2000	259-1111-ND	103.22	79.43	74.38	A2259-MBL-TC
	Terminal	Ball	220/240	30/30	0.15/0.13	1400/1650	600/665	254x90mm	2000	259-1112-ND	103.22	79.43	74.38	A2259-MBT-TC

Please Note: Custom Fan Cable Assemblies available upon request.

DC Brushless and Tachometer Fans

DC Fans - Motor:

Brushless electronic commutation provided by dependable solid-state circuitry. 100% dielectric tested at 600 VAC/1 sec./500 microamps max. leakage. Electronic locked rotor protection. Polarity protected.

Fig. 1

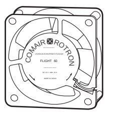


Fig. 2

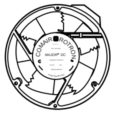


Fig. 3

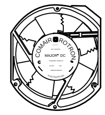
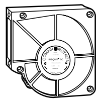


Fig. 4



DC and Tachometer Output DC Fans

Model	Venturi	Propeller	EMI (See Right)
Flight LT Series	PPS Plastic, black glass-filled, meets UL94V-0	PBT Plastic, black reinforced glass, meets UL94V-0	A
Flight II Series	PBT with glass, black, meets UL94V-0	PBT, black, meets UL94V-0	B
Sprint	Glass-filled nylon, black, meets UL94V-0	Injection molded polypropylene, black, meets UL94V-0	B
Sprite	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	C
Muffin	Glass-filled nylon, black, meets UL94V-0	Injection molded polypropylene, black, meets UL94V-0	—
Muffin XL	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	C
Whisper XL	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	C
Muffin XP	Plastic, Black, UL94V-0	Plastic, Black, UL94V-0	—
Diplomat	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	B
Galaxy	One-piece die-cast zinc alloy, black	Polycarbonate, black, meets UL94V-0	C
Patriot Quiet	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	B
Major Quiet	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	C
Falcon	One-piece die-cast aluminum	Polycarbonate, black, meets UL94V-0	B
Maltese	One-piece die-cast aluminum	Polycarbonate, black, meets UL94V-0	B
Tarzan	Plastic, black, meets UL94V-0	Injection molded of flame retardant polycarbonate, black, meets UL94V-0	B
Caravel	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	B
Whiffet Blower	Glass-filled polyester, black, meets UL94V-0	Polyester, black, meets UL94V-0	B
Biscuit Blower	Mineral-filled nylon, black, meets UL94V-0	Polypropylene, black, meets UL94V-0	—
Viking Blower	Glass-filled polyester, black, meets UL94V-0	Polypropylene, black, meets UL94V-0	—
Spinnaker	One-piece die-cast zinc alloy, black	Flame retardant polycarbonate, black, meets UL94V-0	B

EMI

A Meets EMI standards per FCC part 15, subpart J of Docket 20780, Class A or B radiated and conducted emissions.

B Meets EMI standards per FCC part 15, subpart J of Docket 20780, Class A or B radiated and conducted emissions. Meets EMI standards per VDE specification 0871/6.78 for category A and B requirements.

C Per MIL STD 461, Meets EMI standards per FCC part 15, subpart J of Docket 20780, Class A or B radiated and conducted emissions. Meets EMI standards per VDE specification 0871/6.78 for category A and B requirements.

APPROVALS

1. UL yellow card recognized, file No. E31293.
2. CSA certified, file No. L52898.
3. CSA certified, file No. LR52898.
4. CSA certified, file No. UL E31293.
5. CSA certified, file No. LR701980.
6. CSA certified, file No. LR70190.
7. TUV certified, file No. EN60950.
8. TUV approved to IEC 950, VDE 0730; License R97229.
9. TUV approved to IEC 950, VDE 0730; License R97152 and R97188.
10. Complies with FCC Part 15 Class B of EN55022 - 1994 Class B Conducted Emissions.
11. Complies with FCC Part 15 Class B of EN55022 - 1995 Class B Radiated Emissions.
12. Environmental Protection Type 2

Fig.	Model	Connection Type	Bearing	Voltage		Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Life(F) Expectancy	Approvals (See Above)	Digi-Key Part No.	Price Each		Comair Model No.	Finger Guards	Price Each
				Nom.	Range									1	25			
Brushless DC Fans																		
1	Flight LT 25,40,52	Lead Wires	Ball	12	6/14	0.8	70mA	10000	1.40	25x10	50,000 hrs. @ 25°C	1, 5	CR011-ND	17.08	14.73	CR0212LB-G70	—	—
		Lead Wires	Ball	12	6/14	1.2	100mA	6000	6.80	40x10	50,000 hrs. @ 25°C	1, 5	CR015-ND	11.89	10.25	CR0412HB-G70	CR230-ND	.48
		Lead Wires	Ball	12	6/14	1.4	130mA	8500	10.80	40x20	50,000 hrs. @ 25°C	1, 5	CR016-ND	11.89	10.25	CR0412HB-C50	CR230-ND	.48
		Lead Wires	Ball	24	21.6/26.4	1.8	75mA	8500	10.8	40x20	50,000 hrs. @ 25°C	1, 5	CR360-ND	7.38	6.36	CR0424HB-C50	CR230-ND	.48
		Lead Wires	Ball	12	6/14	1.0	80mA	3800	9.80	52x10	50,000 hrs. @ 25°C	1, 5	CR018-ND	12.33	10.63	CR0512HB-G90	—	—
		Lead Wires	Ball	12	6/14	1.2	100mA	4600	12.00	52x15	50,000 hrs. @ 25°C	1, 5	CR022-ND	12.33	10.63	CR0512HB-D71	—	—
1	Flight II 60	Lead Wires	Ball	12	6/14	1.7	142mA	5000	18	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR001-ND	31.61	25.07	FS12B3	CR221-ND	.57
		Lead Wires	Ball	24	12/28	1.9	80mA	5000	18	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR002-ND	31.61	25.07	FS24B3	CR221-ND	.57
		Lead Wires	Ball	12	6/14	1.0	84mA	3500	12	60x25	60,000 hrs. @ 40°C	1, 2, 7	CR003-ND	31.61	25.07	FS12H3	CR221-ND	.57
		Lead Wires	Ball	24	12/28	1.1	46mA	3500	12	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR004-ND	31.61	25.07	FS24H3	CR221-ND	.57
		Lead Wires	Ball	5	4.5/5.5	2.0	400mA	5000	18	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR346-ND	22.50	19.38	FS05B3	CR221-ND	.57
		Lead Wires	Ball	5	4.5/5.5	1.0	190mA	3500	12	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR347-ND	19.62	16.90	FS05H3	CR221-ND	.57
		Lead Wires	Ball	48	24/56	4.0	80mA	5930	23	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR348-ND	24.48	21.08	FS48K3	CR221-ND	.57
		Lead Wires	Ball	12	6/14	3.1	260mA	6200	23	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR358-ND	19.62	16.90	FS12K3	CR221-ND	.57
1	Flight LT 60	Lead Wires	Ball	12	6/14	1.6	130mA	4500	16.60	60x15	50,000 hrs. @ 25°C	1, 6	CR023-ND	12.73	10.98	CR0612HB-D71GL	CR221-ND	.57
		Lead Wires	Ball	12	6/14	2.8	230mA	4500	23.20	60x25	50,000 hrs. @ 25°C	1, 6	CR024-ND	12.73	10.98	CR0612HB-A70GL	CR221-ND	.57
		Lead Wires	Ball	24	12/28	3.6	150mA	4500	23.20	60x25	50,000 hrs. @ 25°C	1, 6	CR026-ND	12.73	10.98	CR0624HB-A70GL	CR221-ND	.57
1	Flight II 80	Lead Wires	Ball	12	6/14	2.0	165mA	3600	37	80x25	60,000 hrs. @ 25°C	1, 2, 7	CR005-ND	32.19	25.53	FE12B3	CR180-ND	.85
		Lead Wires	Ball	24	12/28	2.0	87mA	3600	37	80x25	60,000 hrs. @ 25°C	1, 2, 7	CR006-ND	32.19	25.53	FE24B3	CR180-ND	.85
		Lead Wires	Ball	12	6/14	1.0	89mA	2700	27	80x25	60,000 hrs. @ 25°C	1, 2, 7	CR007-ND	32.19	25.53	FE12H3	CR180-ND	.85
		Lead Wires	Ball	24	12/28	1.2	48mA	2700	27	80x25	60,000 hrs. @ 25°C	1, 2, 7	CR008-ND	32.19	25.53	FE24H3	CR180-ND	.85
1	Flight LT 80	Lead Wires	Ball	12	6/14	3.0	250mA	3010	38.60	80x25	50,000 hrs. @ 25°C	1, 6	CR030-ND	13.08	11.28	CR0812HB-A70GL	CR180-ND	.85
		Lead Wires	Ball	12	6/14	1.8	150mA	2440	31.40	80x25	50,000 hrs. @ 25°C	1, 6	CR031-ND	13.08	11.28	CR0812MB-A70GL	CR180-ND	.85
		Lead Wires	Ball	24	12/28	3.8	160mA	3010	38.60	80x25	50,000 hrs. @ 25°C	1, 6	CR032-ND	13.08	11.28	CR0824HB-A70GL	CR180-ND	.85
1	Sprint	Lead Wires	Sleeve	12	6/14	3.4	280mA	3400	33	80x32	55,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR009-ND	16.20	13.95	ST12A3	CR180-ND	.85
		Lead Wires	Sleeve	24	12/28	3.3	140mA	3400	33	80x32	55,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR012-ND	16.20	13.95	ST24A3	CR180-ND	.85
		Lead Wires	Ball	12	6/14	3.4	280mA	3400	33	80x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR014-ND	18.45	15.89	ST12B3	CR180-ND	.85
		Lead Wires	Ball	24	12/28	3.3	140mA	3400	33	80x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR017-ND	18.45	15.89	ST24B3	CR180-ND	.85
		Lead Wires	Ball	5	4.5/5.5	2.3	460mA	3400	33	80x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR353-ND	25.20	21.70	ST05B3	CR180-ND	.85
		Lead Wires	Ball	12	6/14	6.2	520mA	4700	45	80x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR354-ND	22.50	19.38	ST12Z3	CR180-ND	.85
1	Sprite	Lead Wires	Ball	12	6/14	3.0	250mA	3500	35	80x42	80,000 hrs. @ 40°C	1, 3, 7	CR019-ND	24.76	21.58	SD12B1	CR180-ND	.85
		Terminal	Ball	12	6/14	3.0	250mA	3500	35	80x42	80,000 hrs. @ 40°C	1, 3, 7	CR027-ND	25.73	22.42	SD12B2	CR180-ND	.85
		Lead Wires	Ball	24	12/28	3.0	130mA	3500	35	80x42	83,000 hrs. @ 40°C	1, 3, 7	CR020-ND	25.73	22.42	SD24B1	CR180-ND	.85
		Lead Wires	Ball	48	24/56	3.0	60mA	3500	35	80x42	83,000 hrs. @ 40°C	1, 3, 7	CR021-ND	24.76	21.58	SD48B1	CR180-ND	.85
		Terminal	Ball	48	24/56	3.0	60mA	3500	35	80x42	83,000 hrs. @ 40°C	1, 3, 7	CR236-ND	29.40	24.26	SD48B2	CR180-ND	.85
1	Flight II 90	Lead Wires	Ball	12	6/14	2.4	202mA	2800	45	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR034-ND	34.23	27.14	FN12B3	CR220-ND	.68
		Lead Wires	Ball	12	6/14	1.5	124mA	2350	37	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR036-ND	34.23	27.14	FN12C3	CR220-ND	.68
		Lead Wires	Ball	24	12/28	2.4	100mA	2800	45	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR237-ND	23.60	19.52	FN24B3	CR220-ND	.68
		Lead Wires	Ball	24	12/28	1.5	62mA	2350	37	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR238-ND	23.60	19.47	FN24C3	CR220-ND	.68
		Lead Wires	Ball	12	4.5/5.5	5.1	423mA	3850	60	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR349-ND	23.04	19.84	FN12K3	CR220-ND	.68
		Lead Wires	Ball	24	12/28	5.5	230mA	3800	60	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR359-ND	23.04	19.84	FN24K3	CR220-ND	.68
		Lead Wires	Ball	48	24/56	2.9	65mA	2800	45	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR350-ND	21.24	18.29	FN48B3	CR220-ND	.68
1	Flight LT 90	Lead Wires	Ball	12	6/14	4.3	360mA	3000	48.40	92x25	50,000 hrs. @ 25°C	1, 5	CR035-ND	13.60	11.73	CR0912HB-A70GL	CR220-ND	.68
		Lead Wires	Ball	24	12/28	4.8	200mA	3000	48.40	92x25	50,000 hrs. @ 25°C	1, 5	CR037-ND	13.60	11.73	CR0924HB-A70GL	CR220-ND	.68
1	Flight II 120	Lead Wires	Ball	12	6/14	4.3	360mA	2950	86	120x25	60,000 hrs. @ 25°C	1, 2, 7	CR038-ND	35.10	27.83	FT12B3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	4.3	180mA	2950	86	120x25	60,000 hrs. @ 25°C	1, 2, 7	CR039-ND	35.10	27.83	FT24B3	CR210-ND	1.79
		Lead Wires	Ball	12	6/14	1.6	130mA	2000	61	120x25	60,000 hrs. @ 25°C	1, 2, 7	CR040-ND	35.09	27.83	FT12M3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	1.9	80mA	2000	61	120x25	60,000 hrs. @ 25°C	1, 2, 7	CR041-ND	35.10	27.83	FT24M3	CR210-ND	1.79
1	Muffin	Lead Wires	Sleeve	12	6/14	7.9	660mA	3700	102	120x32	50,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR042-ND	17.82	15.35	MC12A3	CR210-ND	1.79
		Lead Wires	Sleeve	24	12/28	6.7	280mA	3700	102	120x32	50,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR046-ND	17.82	15.35	MC24A3	CR210-ND	1.79
		Lead Wires	Sleeve	12	6/14	2.2	180mA	2150	58	120x32	50,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR043-ND	17.82	15.35	MC12E3	CR210-ND	1.79
		Lead Wires	Sleeve	24	12/28	2.1	85mA	2150	58	120x32	50,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR047-ND	17.82	15.35	MC24E3	CR210-ND	1.79

Please Note: Custom Fan Cable Assemblies available upon request.

(Continued)

DC Brushless and Tachometer Fans *(Cont.)*

Fig.	Model	Connection Type	Bearing	Voltage		Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Life(F) Expectancy	Approvals (See Above)	Digi-Key Part No.	Price Each		Comair Model No.	Finger Guards	Price Each
				Nom.	Range									1	25			
1	Muffin	Lead Wires	Ball	12	6/14	7.9	660mA	3700	102	120x32	75,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR051-ND	20.25	17.44	MC12B3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	5.5	230mA	3700	102	120x32	75,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR055-ND	20.25	17.44	MC24B3	CR210-ND	1.79
		Lead Wires	Ball	48	22/56	8.4	180mA	3700	102	120x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR240-ND	22.50	18.57	MC48B3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	4.8	200mA	2850	80	120x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR241-ND	22.50	18.57	MC24H3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	10.6	440mA	4200	118	120x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR351-ND	22.05	18.99	MC24K3	CR210-ND	1.79
		Lead Wires	Ball	48	24/56	10.6	220mA	4100	118	120x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR352-ND	22.05	18.99	MC48K3	CR210-ND	1.79
1	Muffin XL	Lead Wires	Ball	24	12/28	6.0	250mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR070-ND†	41.43	37.61	MD24B1	CR210-ND	1.79
		Terminal	Ball	12	6/14	6.0	500mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR072-ND†	41.43	37.61	MD12B2	CR210-ND	1.79
		Terminal	Ball	24	12/28	6.0	250mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR073-ND†	41.43	37.61	MD24B2	CR210-ND	1.79
		Terminal	Ball	48	24/56	6.0	125mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR074-ND†	41.43	37.61	MD48B2	CR210-ND	1.79
		Lead Wires	Ball	12	6/14	6.0	500mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR069-ND†	41.42	37.61	MD12B1	CR210-ND	1.79
		Lead Wires	Ball	48	24/56	6.0	125mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR071-ND†	43.60	35.97	MD48B1	CR210-ND	1.79
1	Whisper XL	Lead Wires	Ball	12	6/14	2.4	200mA	2230	75	119x39	83,000 hrs. @ 40°C	1, 3, 7	CR262-ND†	43.30	35.73	WD12C3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	2.4	100mA	2230	75	119x39	83,000 hrs. @ 40°C	1, 3, 7	CR263-ND†	43.30	35.73	WD24C3	CR210-ND	1.79
		Lead WIres	Ball	12	6/14	1.2	100mA	1635	55	119x39	83,000 hrs. @ 40°C	1, 3, 7	CR264-ND†	43.30	35.73	WD12M3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	1.2	52mA	1635	55	119x39	83,000 hrs. @ 40°C	1, 3, 7	CR265-ND†	43.30	35.73	WD24M3	CR210-ND	1.79
1	Muffin XP	Lead WIres	Sleeve	24	12/28	7.0	290mA	3000	110	120x38	78,000 hrs. @ 40°C	10, 11	CR342-ND	22.23	19.15	MS24B3	CR210-ND	1.79
		Lead WIres	Sleeve	48	24/56	7.4	150mA	3000	110	120x38	78,000 hrs. @ 40°C	10, 11	CR343-ND	22.23	19.15	MS48B3	CR210-ND	1.79
2	Diplomat	Lead Wires	Ball	24	12/28	26.0	1.1A	3400	170	133x91	35,000 hrs. @ 50°C	1, 2, 7	CR289-ND	68.40	58.90	DDF24B1	CR210-ND	1.79
		Lead Wires	Ball	48	24/56	24.0	.51A	3400	170	133x91	35,000 hrs. @ 50°C	1, 2, 7	CR290-ND	83.43	71.85	DDF48B1	CR210-ND	1.79
1	Galaxy	Terminal	Ball	12	6/14	15.0	1250mA	3250	150	127x38	82,500 hrs. @ 50°C	1, 3, 7	CR266-ND†	51.00	42.08	GL12B4	CR200-ND	2.03
		Terminal	Ball	24	12/28	15.0	625mA	3250	150	127x38	82,500 hrs. @ 50°C	1, 3, 7	CR267-ND†	51.00	42.08	GL24B4	CR200-ND	2.03
		Terminal	Ball	48	24/56	15.0	310mA	3250	150	127x38	82,000 hrs. @ 50°C	1, 3, 7	CR268-ND†	51.00	42.08	GL48B4	CR200-ND	2.03
2	Patriot	Terminal	Ball	24	12/28	20.3	850mA	3500	235	172x51	62,000 hrs. @ 50°C	1, 3, 7	CR242-ND†	66.60	54.95	PQ24B4	CR206-ND	2.72
		Terminal	Ball	48	24/56	20.1	420mA	3500	235	172x51	62,000 hrs. @ 50°C	1, 3, 7	CR243-ND†	66.60	54.95	PQ48B4	CR206-ND	2.72
3	Major Quiet	Terminal	Ball	24	12/28	20.3	850mA	3500	235	172x150x51	62,000 hrs. @ 50°C	1, 3, 7	CR291-ND†	64.89	55.88	JQ24B4	CR196-ND	3.06
		Terminal	Ball	48	24/56	20.1	420mA	3500	235	172x150x51	62,000 hrs. @ 50°C	1, 3, 7	CR292-ND†	64.89	55.88	JQ48B4	CR196-ND	3.06
		Terminal	Ball	12	6/14	14.6	1215mA	3000	200	172x150x51	62,000 hrs. @ 50°C	1, 3, 7	CR293-ND†	64.89	55.88	JQ12C4	CR196-ND	3.06
2	Falcon	Lead Wires	Ball	24	12/28	41.0	1.48A	3400	300	172x55	62,000 hrs. @ 50°C	1, 2, 7	CR295-ND†	88.65	76.34	FD24B3	CR196-ND	3.06
3	Maltese	Lead Wires	Ball	12	6/14	39.6	3A	3400	300	172x150x55	62,000 hrs. @ 50°C	1, 2, 7	CR297-ND†	88.65	76.34	MT12B3	CR196-ND	3.06
		Lead Wires	Ball	24	12/28	41.0	1.48A	3400	300	172x150x55	62,000 hrs. @ 50°C	1, 2, 7	CR298-ND†	88.65	76.34	MT24B3	CR196-ND	3.06
		Lead Wires	Ball	48	24/56	34.5	.72A	3400	300	172x150x55	62,000 hrs. @ 50°C	1, 2, 7	CR299-ND†	88.65	76.34	MT48B3	CR196-ND	3.06
2	Caravel	Lead Wires	Ball	24	12/28	29.0	1.2A	1650	550	254x89	60,000 hrs. @ 50°C	1, 2, 7	CR302-ND†	82.80	71.30	CD24B3	CR182-ND	1.89
		Lead Wires	Ball	48	24/56	30.2	.63A	1650	550	254x89	60,000 hrs. @ 50°C	1, 2, 7	CR303-ND†	82.80	71.30	CD48B3	CR182-ND	1.89
4	Whiffet Blower	Lead Wires	Ball	12	6/14	5.1	420mA	4050	15	80x32	80,000 hrs. @ 25°C	1, 4, 7	CR304-ND	32.40	27.90	WT12B3	—	—
		Lead Wires	Ball	24	12/28	5.1	200mA	4050	15	80x32	80,000 hrs. @ 25°C	1, 4, 7	CR305-ND	32.40	27.90	WT24B3	—	—
4	Biscuit Blower	Lead Wires	Sleeve	12	9/14	11.0	900mA	3050	25	121x31	50,000 hrs. @ 40°C	1, 3, 7	CR085-ND	31.18	26.96	BD12A3	—	—
		Lead Wires	Sleeve	24	18/28	11.0	480mA	3050	25	121x31	50,000 hrs. @ 40°C	1, 3, 7	CR086-ND	31.18	26.96	BD24A3	—	—
		Lead Wires	Ball	12	6/14	11.0	900mA	3050	25	121x31	78,000 hrs. @ 40°C	1, 3, 7	CR247-ND	38.00	31.35	BD12B3	—	—
		Lead Wires	Ball	24	12/28	11.0	480mA	3050	25	121x31	78,000 hrs. @ 40°C	1, 3, 7	CR248-ND	38.00	31.35	BD24B3	—	—
4	Viking	Lead Wires	Ball	12	6/14	20.0	1670mA	4000	33	127x41	83,000 hrs. @ 40°C	—	CR306-ND	31.95	27.52	VK12B3	—	—
		Lead Wires	Ball	24	12/28	20.0	830mA	4000	33	127x41	83,000 hrs. @ 40°C	—	CR307-ND	31.95	27.52	VK24B3	—	—
4	Spinnaker	Lead Wires	Ball	24	12/28	30.0	1300mA	2500	60	162x41	62,000 hrs. @ 50°C	1, 3, 7	CR249-ND	70.20	57.92	SPD24B1	—	—
Tachometer Output DC Fans																		
1	Muffin	Lead Wires	Ball	12	6/14	7.9	660mA	3700	102	120x32	78,000 hrs. @ 40°C	10, 11	CR339-ND	20.25	17.44	MC12B7	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	5.5	230mA	3700	102	120x32	78,000 hrs. @ 40°C	10, 11	CR340-ND	23.22	20.00	MC24B7	CR210-ND	1.79
1	Muffin XL	Lead Wires	Ball	12	6/14	6.0	500mA	3100	110	119x39	83,000 hrs. @ 40°C	10, 11	CR344-ND†	36.18	31.16	MD12B5	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	6.0	250mA	3100	110	119x39	83,000 hrs. @ 40°C	10, 11	CR345-ND†	36.18	31.16	MD24B5	CR210-ND	1.79

† Feathered Edge for lower noise.

Please Note: Custom Fan Cable Assemblies available upon request.

ThermaPro-V (TPV) DC Fans

Thermal Speed Control: This option uses a thermistor to monitor the temperature and regulate the speed accordingly. The fan will automatically adjust its speed to optimize the airflow to the surrounding temperature. For conditions where power inputs are at a minimum, the fan operates at half speed, providing a minimal amount of CFM to those components still in need of cooling. This reduction in speed results in a significant reduction in noise and power consumption. As the power requirements increase, so does the internal temperature. The fan senses this increase and compensates for it. The fan will continue to increase in speed until it reaches full speed for maximum cooling. The temperature range is 25°C to 45°C. Any temperature below 25°C the fan will operate at half speed. Between 25°C and 45°C, the fan RPM changes linearly with temperature. Over 45°C, the fan will maintain full speed operation.

Fans equipped with this option use a thermistor. The thermistor can be located on a zip cord and placed on hot spots such as processors, heatsinks, transformers, etc., or can be placed in the hub of the fan to monitor the air traveling through the fan.

EMI

A. Meets EMI standards per FCC part 15, subpart J of Docket 20780, Class A or B radiated and conducted emissions. Meets EMI standards per VDE specification 0871/6.78 for category A and B requirements.

APPROVALS

1. UL yellow card recognized, file No. E31293.
2. CSA certified, file No. L52898.
3. TUV approved to IEC 950, VDE 0730; License R97229.
4. TUV approved to IEC 950, VDE 0730; License R97152 and R97188.

Fig. 1

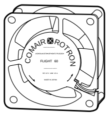
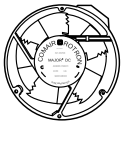


Fig. 2



Model	Venturi	Propeller	EMI (See Right)
Muffin TPV	Flame retardant, black, phenolic	Flame retardant polypropylene, black	—
Sprint TPV	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	A
Patriot TPV	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	—

Fig.	Model	Connection Type	Bearing	Voltage		Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Life(F) Expectancy	Approvals (See Above)	Digi-Key Part No.	Price Each		Comair Model No.	Finger Guards	Price Each
				Nom.	Range									1	25			
1	Muffin TPV	Lead Wires	Sleeve	12	6/14	2.8	230mA	1700	47	120x32	83,000 hrs. @ 40°C	1, 2, 3	CR269-ND	33.80	27.89	MC12T3H	CR210-ND	1.79
1	Sprint TPV	Lead Wires	Sleeve	48	24/56	2.9	60mA	2100	20	80x32	55,000 hrs. @ 40°C	1, 2, 3	CR274-ND	30.40	25.08	ST48T3H	CR180-ND	.85
2	Patriot TPV	Terminal	Ball	12	6/14	11.0	900mA	1700	113	171.5x51	62,000 hrs. @ 50°C	1, 2, 4	CR275-ND	75.62	62.39	PD12T2H	CR206-ND	2.72
		Terminal	Ball	24	12/28	9.0	390mA	1700	113	127x51	62,000 hrs. @ 50°C	1, 2, 4	CR276-ND	74.34	61.34	PD24T2H	CR206-ND	2.72
		Terminal	Ball	48	24/56	10.0	210mA	1700	113	127x51	62,000 hrs. @ 50°C	1, 2, 4	CR277-ND	74.34	61.34	PD48T2H	CR206-ND	2.72

AC Fans

Fig. 1

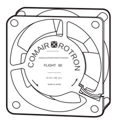


Fig. 2

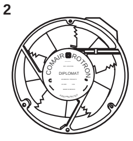


Fig. 3

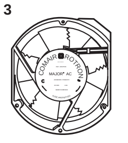
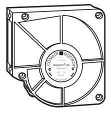


Fig. 4



AC Fans - Motor:
Two-pole shaded pole induction motor.
All 50/60Hz, impedance or thermally protected.
100% dielectric tested at 1800 VAC/1 sec./500 microamps max. leakage.

Model	Venturi	Propeller	EMI (See Right)
Sprite	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	A
Whisper	Flame retardant, black, phenolic	Flame retardant polypropylene, black	—
Whisper XL	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	—
Muffin	Flame retardant, black, phenolic	Flame retardant polypropylene, black	—
Muffin XL	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	—
Diplomat	One-piece die-cast aluminum, black	Injection molded of flame retardant polycarbonate, black, meets UL94V-0	—
Falcon	One-piece die-cast aluminum, black	Injection molded of flame retardant polycarbonate, black, meets UL94V-0	—
Maltese	One-piece die-cast aluminum, black	Injection molded of flame retardant polycarbonate, black, meets UL94V-0	—
Major	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	—
Patriot	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	—
Tarzan	Flame retardant, black, phenolic	Flame retardant polycarbonate, black	—
Caravel	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	—
Biscuit Blower	Black, meets UL94V-0	Polypropylene, black, meets UL94V-2	—

EMI

A Meets EMI standards per FCC part 15, subpart J of Docket 20780,Class A or B radiated and conducted emissions. Meets EMI standards per VDE specification 0871/6.78 for category A and B requirements.

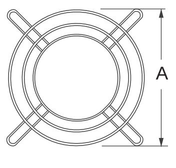
APPROVALS

1. UL yellow card recognized, file No. E31293.
2. CSA certified, file No. LR52898.
3. TUV certified, file No. EN60950.
4. TUV approval pending.
5. VDE Marks license No. 1126.
6. VDE Marks license No. 1354.
7. TUV approved, file No. R97229.

Fig.	Model	Connection Type	Bearing	Voltage Nom.	Voltage Range	Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Life(F) Expectancy	Approvals (See Above)	Digi-Key Part No.	Price Each 1	Price Each 25	Comair Model No.	Finger Guards	Price Each
AC Fans																		
1	Sprite	Lead Wires	Sleeve	115	—	7/6	.08/.07A	2200/2600	23/27	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR093-ND	26.20	21.62	SU2E1	CR180-ND	.85
		Terminal	Sleeve	115	—	13/11	.19/.15A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR097-ND	25.90	21.37	SU2A5	CR180-ND	.85
		Lead Wires	Sleeve	115	—	13/11	.19/.15A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR091-ND	24.80	20.46	SU2A1	CR180-ND	.85
		Lead Wires	Ball	115	—	13/11	.19/.15A	2750/3250	28/34	80x42	73,000 hrs. @ 40°C	1, 2, 5	CR103-ND	29.00	23.93	SU2B1	CR180-ND	.85
		Terminal	Ball	115	—	13/11	.19/.15A	2750/3250	28/34	80x42	73,000 hrs. @ 40°C	1, 2, 5	CR105-ND	29.00	23.93	SU2B5	CR180-ND	.85
		Lead Wires	Sleeve	115	—	7/6	.07/.06A	1700/1950	15/18	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR108-ND⋆	26.80	22.11	SU2C7	CR180-ND	.85
		Lead Wires	Sleeve	—	220/230	14/13	.09/.08A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR250-ND⋆	25.40	20.96	SU3A1	CR180-ND	.85
		Lead Wires	Sleeve	115	—	7/6	.07/.06A	1750/1900	17/20	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR251-ND⋆	25.40	20.96	SU2C1	CR180-ND	.85
		Terminal	Sleeve	—	220/230	14/13	.09/.08A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR252-ND⋆	26.40	21.78	SU3A5	CR180-ND	.85
		Terminal	Sleeve	115	—	7/6	.07/.06A	1750/1900	17/20	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR253-ND⋆	26.70	22.03	SU2C5	CR180-ND	.85
		Lead Wires	Ball	—	220/230	14/13	.09/.08A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR255-ND⋆	29.00	23.93	SU3B1	CR180-ND	.85
1	Whisper	Terminal	Sleeve	115	—	7/7	.07/.06A	1640/1660	55/57	120x38	55,000 hrs. @ 40°C	1, 2	CR113-ND	27.00	22.28	WR2A1	CR210-ND	1.79
		Terminal	Sleeve	115	—	11/10	.12/.11A	2100/2400	70/80	120x38	55,000 hrs. @ 40°C	1, 2	CR114-ND	27.00	22.28	WR2H1	CR210-ND	1.79
		Terminal	Sleeve	—	220/230	12/12	.07/.07A	1590/2000	53/62	120x38	55,000 hrs. @ 40°C	1, 2	CR116-ND	27.50	22.69	WR3A1	CR210-ND	1.79
1	Whisper XL	Terminal	Sleeve	115	—	6/6	.07/.06A	1450/1500	48/50	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR117-ND†	27.40	22.61	WX2A1	CR210-ND	1.79
		Terminal	Sleeve	115	—	10/9	.11/.10A	1900/2000	65/70	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR119-ND†	27.40	22.61	WX2M1	CR210-ND	1.79
		Terminal	Sleeve	115	—	15/13	.19/.15A	2200/2500	70/83	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR118-ND†	27.40	22.61	WX2H1	CR210-ND	1.79
		Terminal	Sleeve	—	220/230	14/13	.10/.09A	2200/2500	70/83	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR256-ND†	27.40	22.61	WX3H1	CR210-ND	1.79
1	Muffin	Terminal	Sleeve	115	—	15/14	.19/.16A	2650/3100	88/105	120x38	55,000 hrs. @ 40°C	1, 2	CR122-ND	24.30	20.05	MU2A1	CR210-ND	1.79
		Terminal	Ball	115	—	15/14	.19/.16A	2650/3100	88/105	120x38	85,000 hrs. @ 40°C	1, 2	CR124-ND	35.90	29.62	MU2B1	CR210-ND	1.79
		Terminal	Sleeve	—	220/230	15/14	.10/.09A	2650/3100	88/105	120x38	55,000 hrs. @ 40°C	1, 2	CR123-ND	24.30	20.05	MU3A1	CR210-ND	1.79
		Terminal	Ball	—	220/230	15/14	.10/.09A	2650/3100	88/105	120x38	85,000 hrs. @ 40°C	1, 2	CR125-ND	35.90	29.62	MU3B1	CR210-ND	1.79
1	Muffin XL	Terminal	Sleeve	115	—	17/15	.20/.18A	2700/3100	92/108	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR128-ND†⋆	25.60	21.12	MX2A1	CR210-ND	1.79
		Terminal	Ball	115	—	17/15	.20/.18A	2700/3100	92/108	119x39	83,000 hrs. @ 40°C	1, 2, 5	CR132-ND†⋆	37.80	31.19	MX2B1	CR210-ND	1.79
		Terminal	Sleeve	115	—	17/15	.20/.18A	2700/3100	98/115	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR126-ND†	25.60	21.12	MX2A3	CR210-ND	1.79
		Terminal	Ball	115	—	17/15	.20/.18A	2700/3100	98/115	119x39	83,000 hrs. @ 40°C	1, 2, 5	CR130-ND†	37.80	31.19	MX2B3	CR210-ND	1.79
		Terminal	Sleeve	—	220/230	17/16	.10/.09A	2700/3100	98/115	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR257-ND†	25.70	21.21	MX3A3	CR210-ND	1.79
		Terminal	Ball	—	220/230	17/16	.10/.09A	2700/3100	98/115	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR258-ND†	37.80	31.19	MX3B3	CR210-ND	1.79
2	Diplomat	Terminal	Ball	—	220/230	26/30	.13/.20A	2850/3350	150/170	133x91	50,000 hrs. @ 40°C	1, 2, 3	CR314-ND	61.20	52.70	DAF77B2	—	—
2	Falcon	Terminal	Ball	115	—	41.4	.36A	3400	300	172x55	40,000 hrs. @ 50°C	1, 2, 3	CR309-ND†	72.90	62.78	FA2B3	CR196-ND	3.06
		Terminal	Ball	—	220/230	41.4	.18A	3400	300	172x55	40,000 hrs. @ 50°C	1, 2, 3	CR310-ND†	72.90	62.78	FA77B3	CR196-ND	3.06
3	Maltese	Terminal	Ball	115	—	41.4	.36A	3400	300	172x150x55	40,000 hrs. @ 50°C	1, 2, 7	CR311-ND†	72.90	62.78	MA2B3	CR196-ND	3.06
		Terminal	Ball	—	220/230	41.4	.18A	3400	300	172x150x55	40,000 hrs. @ 50°C	1, 2, 7	CR312-ND†	72.90	62.78	MA77B3	CR196-ND	3.06
3	Major	Terminal	Ball	115	—	30/31	.27/.26A	2850/3350	200/235	172x150x51	5 yrs. @ 25°C	1, 2, 6	CR134-ND†	57.86	46.44	MR2B3	CR196-ND	3.06
		Terminal	Ball	—	220/230	26/30	.13/.14A	2850/3350	200/235	172x150x51	5 yrs. @ 25°C	1, 2, 6	CR135-ND†	58.15	46.67	MR77B3	CR196-ND	3.06
2	Patriot	Terminal	Ball	115	—	30/31	.27/.26A	2850/3350	200/235	172x51	5 yrs. @ 25°C	1, 2, 6	CR136-ND†	57.86	46.44	PT2B3	CR206-ND	2.72
		Terminal	Ball	—	220/230	26/30	.13/.14A	2850/3350	200/235	172x51	53,000 hrs. @ 40°C	1, 2, 6	CR137-ND†	61.20	50.49	PT77B3	CR206-ND	2.72
1	Tarzan	Terminal	Ball	115	—	90/85	1.4/1.2A	2820/3350	280/340	176x112	25,000 hrs. @ 40°C	1, 2, 4	CR140-ND	78.05	65.79	TNE2A	CR179-ND	6.56
		Terminal	Ball	—	220/230	82/85	.65/.60A	2820/3350	280/340	176x112	25,000 hrs. @ 40°C	1, 2, 4	CR141-ND	78.05	65.79	TNE3A	CR179-ND	6.56
		Leadwire	Ball	115	—	90/85	1.4/1.2A	2820/3350	280/340	176x112	25,000 hrs. @ 40°C	1, 2, 4	CR259-ND	88.20	72.77	TNE2C	CR179-ND	6.56
2	Caravel	Lead Wires	Ball	115	—	65	.48/.50A	1400/1650	455/550	254x89	54,000 hrs. @ 40°C	1, 2, 3	CR144-ND†	57.75	47.03	CLE2L2	CR182-ND	1.89
		Terminal	Ball	115	—	65	.48/.50A	1400/1650	455/550	254x89	54,000 hrs. @ 40°C	1, 2, 3	CR145-ND†	59.50	48.45	CLE2T2	CR182-ND	1.89
		Terminal	Ball	—	220/230	55	.24/.25A	1400/1650	455/550	254x89	54,000 hrs. @ 40°C	1, 2, 3	CR147-ND†	59.50	48.45	CLE3T2	CR182-ND	1.89
4	Biscuit Blower	Terminal	Sleeve	115	—	17/16	.19/.17A	2500/2700	20/22	120x40	55,000 hrs. @ 40°C	1, 2	CR148-ND	34.00	27.63	BT2A1	—	—
		Terminal	Sleeve	—	220/230	15/14	.09/.08A	2500/2700	20/22	120x40	55,000 hrs. @ 40°C	1, 2	CR149-ND	34.00	27.63	BT3A1	—	—

† Feathered Edge for lower noise ⋆ Reverse Flow

Fan Accessories



Dim. (mm) A	Dim. (mm) Thick	Fits Fan Size (mm)	Center Dim. (mm)	No. of Rings	Material	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
Finger Guards									
222.00	17.78	176 Sq.	99 open	3	Metal	CR179-ND	6.56	5.65	5.19

Description	Fits Fan Size (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
Filters and Filter Accessories					
Filter Mounting Clips	Whisper and Muffin	CR163-ND	.92	.80	.74
Filter Assembly	119 and 120 Square	CR209-ND	16.59	12.64	11.46
Grilles					
Grille (Spiral)	119 and 120 Square	CR177-ND	4.43	3.82	3.51
Clips					
#6-32 Flush Mounting Clip	Major, Major DC, Whisper	CR187-ND	.17	.15	.14
#6-32 Mounting Clip	All XL Models	CR192-ND	.15	.12	.11

Fan Accessories

Fig. 1

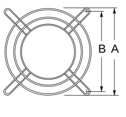


Fig. 2

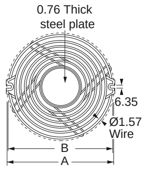


Fig. 3

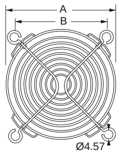


Fig. 4

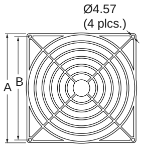


Fig. 5

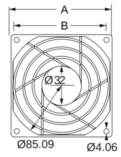


Fig. 6

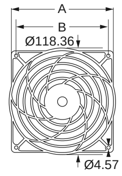


Fig. 7

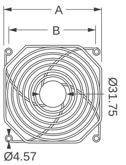


Fig. 8

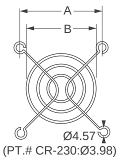


Fig. 9

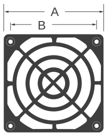


Fig. 10

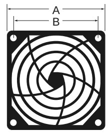


Fig. 11

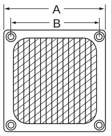


Fig. 12 *NEW!*

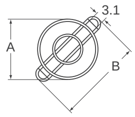


Fig. 13 *NEW!*

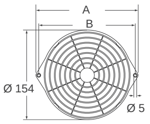


Fig. 14 *NEW!*

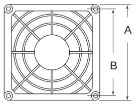


Fig. 15 *NEW!*

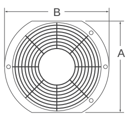


Fig. 16

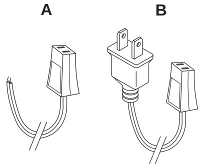


Fig. 17

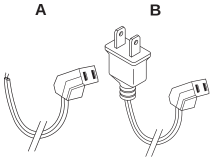


Fig. 18

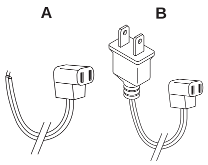


Fig. 19

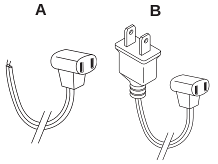


Fig.	Dim. (mm)			Fits Fan Size (mm)	Center Dim. (mm)	No. of Rings	Material	Digi-Key Part No.	Price Each			Qualtek Part No.
	A	B	Thick						1	25	50	
Finger Guards												
1	109.47	104.78	4.83	120 Sq.	57 open	3	Metal	CR178-ND	1.00	.84	.76	08146
	76.96	71.37	3.89	80 Sq.	50 open	3	Metal	CR180-ND	.85	.71	.65	08153
	209.55	173.99	8.38	254 Dia.	102 open	5	Metal	CR182-ND	1.89	1.71	1.53	08154
2	158.75	161.92	6.10	150 Dia.	74 solid	6	Metal	CR206-ND	2.72	2.29	2.07	08152
	158.75	161.92	6.10	171.5 Dia.	74 solid	5 3/4	Metal	CR196-ND	3.06	2.58	2.33	08151
3	124.46	113.28	5.92	127 Dia.	14 open	9	Metal	CR200-ND	2.03	1.71	1.55	08150
4	115.06	104.65	6.60	120 Sq.	25.4 solid	6	Plastic	CR280-ND	.90	.76	.69	09120-G
5	115.06	104.65	2.54	120 Sq.	32 solid	5	Plastic	CR315-ND	.78	.66	.60	09122-G
6	115.06	104.65	6.60	120 Sq.	45 solid	5	Plastic	CR281-ND	1.05	.89	.80	09121-G
7	117.35	104.78	5.21	120 Sq.	33 solid	7	Metal	CR210-ND	1.79	1.51	1.36	08141
8	89.41	82.42	4.95	92 Sq.	14 open	6	Metal	CR220-ND	.68	.58	.52	08174
	53.10	50.04	4.95	60 Sq.	14 open	4	Metal	CR221-ND	.57	.48	.44	08147
	222.25	173.99	6.35	254 Dia.	76.2 solid	9	Metal	CR223-ND	3.05	2.56	2.32	08127
	115.6	104.8	5.66	120 Dia.	17.5 open	8	Metal	CR224-ND	.81	.68	.62	08170
	76.20	71.37	4.95	80 Dia.	17.4 open	5	Metal	CR229-ND	.65	.55	.50	08172
	32.00	29.21	4.80	40 Dia.	15.875 open	2	Metal	CR230-ND	.48	.41	.37	08149
9	39.88	32.00	4.83	40 Sq.	12 open	3	Plastic	CR285-ND	.29	.25	.22	09150-G
	59.94	50.04	6.35	60 Sq.	5 solid	3	Plastic	CR225-ND	.35	.29	.27	09250-G
10	80.01	71.37	6.35	80 Sq.	15 solid	3	Plastic	CR226-ND	.53	.45	.40	09325-G
	79.76	71.37	3.05	80 Sq.	32 solid	3	Plastic	CR282-ND	.46	.39	.35	09080-G
	91.95	82.55	6.35	92 Sq.	31.5 solid	4	Plastic	CR227-ND	.85	.72	.65	09362-G
	118.11	104.65	7.11	120 Sq.	25 solid	6	Plastic	CR228-ND	.86	.73	.66	09450-G
12	24.2	34.2	3.0	25 Sq.	104 open	2	Metal	CR181-ND *NEW!*	.63	.53	.48	08245
14	60.0	50.0	7.0	60 Sq.	21.0 solid	3	Plastic	CR190-ND *NEW!*	.80	.68	.61	09252-G
15	151	172	7.0	151 Sq.	50 solid	8	Plastic	CR191-ND *NEW!*	2.28	1.92	1.73	09651-G

Fig.	Description	Dim. (mm)		Fits Fan Size (mm)	Digi-Key Part No.	Price Each			Qualtek Part No.
		A	B			1	25	50	
Filters and Filter Accessories									
9	Filter Guard Assembly (30 PPI)	39.88	32.00	40 Sq.	CR286-ND	.67	.57	.51	09150-F/30
9	Filter Guard Assembly (45 PPI)	39.88	32.00	40 Sq.	CR287-ND	.67	.57	.51	09150-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	40 Sq.	CR324-ND	.74	.62	.57	09150-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	40 Sq.	CR325-ND	.74	.62	.57	09150-M/45
9	Filter Guard Assembly (30 PPI)	59.94	50.04	60 Sq.	CR283-ND	.82	.69	.62	09250-F/30
9	Filter Guard Assembly (45 PPI)	59.94	50.04	60 Sq.	CR284-ND	.82	.69	.62	09250-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	60 Sq.	CR326-ND	.66	.56	.51	09250-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	60 Sq.	CR327-ND	.66	.56	.51	09250-M/45
10	Filter Guard Assembly (30 PPI)	83.57	71.37	80 Sq.	CR212-ND	1.27	1.07	.97	09325-F/30
10	Filter Guard Assembly (45 PPI)	83.57	71.37	80 Sq.	CR214-ND	1.27	1.07	.97	09325-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	80 Sq.	CR213-ND	1.15	.97	.88	09325-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	80 Sq.	CR215-ND	1.15	.97	.88	09325-M/45
10	Filter Guard Assembly (30 PPI)	96.52	82.55	92 Sq.	CR328-ND	1.30	1.10	.99	09362-F/30
10	Filter Guard Assembly (45 PPI)	96.52	82.55	92 Sq.	CR329-ND	2.43	2.04	1.85	09362-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	92 Sq.	CR330-ND	1.30	1.10	.99	09362-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	92 Sq.	CR331-ND	1.30	1.10	.99	09362-M/45
10	Filter Guard Assembly (30 PPI)	123.7	104.9	119 & 120 Square	CR216-ND	2.08	1.75	1.58	09450-F/30
10	Filter Guard Assembly (45 PPI)	123.7	104.9		CR218-ND	2.08	1.75	1.58	09450-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—		CR217-ND	1.79	1.51	1.36	09450-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—		CR219-ND	1.79	1.51	1.36	09450-M/45
11	Filter/Screen, Stainless Steel (Washable)	64.26	49.6	60 Sq.	CR373-ND	5.38	4.87	4.36	06250-SS
	Filter/Screen, Aluminum (Washable)	83.82	71.37	80 Sq.	CR233-ND	3.10	2.81	2.51	06325-M
	Filter/Screen, Stainless Steel (Washable)	83.82	71.37	80 Sq.	CR374-ND	5.52	5.00	4.48	06325-SS
	Filter/Screen, Aluminum (Washable)	91.95	82.42	92 Sq.	CR234-ND	3.00	2.72	2.43	06362-M
	Filter/Screen, Stainless Steel (Washable)	91.95	82.42	92 Sq.	CR375-ND	5.69	5.15	4.61	06362-SS
	Filter/Screen, Aluminum (Washable)	118.87	104.77	120 Sq.	CR235-ND	4.15	3.76	3.36	06450-M
	Filter/Screen, Stainless Steel (Washable)	118.87	104.77	120 Sq.	CR376-ND	8.53	7.72	6.91	06450-SS
13	Finger Guard Assembly, Plastic (30 PPI)	176.0	161.5	150 Sq.	CR183-ND *NEW!*	3.73	3.13	2.84	09650-F/30
	Finger Guard Assembly, Plastic (45 PPI)	176.0	161.5	150 Sq.	CR185-ND *NEW!*	3.73	3.13	2.84	09650-F/45
	Finger Guard Assembly, Plastic (60 PPI)	176.0	161.5	150 Sq.	CR186-ND *NEW!*	3.40	3.08	2.76	09650-F/60
	Finger Guard Assembly, Plastic (100 PPI)	176.0	161.5	150 Sq.	CR189-ND *NEW!*	3.40	3.08	2.76	09650-F/100
Plug Cord Sets – SPT-1 (18/2)									
16A	Straight On Plug and Cord – 24” (60.96cm)	Fits all Diplomat, Falcon, Maltese, Major, Patriot, Tarzan, Caravel, and Biscuit model fans with Terminal Connections			CR197-ND	.88	.75	.68	07100-24
	Straight On Plug and Cord – 36” (91.44cm)				CR198-ND	1.01	.85	.77	07100-36
	Straight On Plug and Cord – 50” (127.00cm)				CR199-ND	1.19	1.00	.91	07100-50
16B	Straight On Plug and Cord – 24” (60.96cm)				CR361-ND	1.48	1.24	1.13	07100-SP024
	Straight On Plug and Cord – 36” (91.44cm)				CR362-ND	1.62	1.36	1.23	07100-SP036
	Straight On Plug and Cord – 72” (182.88cm)				CR363-ND	2.08	1.75	1.59	07100-SP072
17A	45° Angle Plug and Cord – 24” (60.96cm)	Fits all AC Fans with Terminal Connection Type			CR318-ND	.88	.75	.68	07145-24
	45° Angle Plug and Cord – 36” (91.44cm)				CR319-ND	1.01	.85	.77	07145-36
17B	45° Angle Plug and Cord – 36” (91.44cm)				CR365-ND	1.62	1.36	1.23	07145-SP036
	45° Angle Plug and Cord – 72” (182.88cm)				CR366-ND	2.08	1.75	1.59	07145-SP072
18A	90° Angle Plug and Cord – 12” (30.48cm)	Fits all AC Fans with Terminal Connection Type			CR320-ND	.77	.65	.59	07190-12
	90° Angle Plug and Cord – 24” (60.96cm)				CR321-ND	.88	.75	.68	07190-24
	90° Angle Plug and Cord – 36” (91.44cm)				CR322-ND	1.01	.85	.77	07190-36
18B	90° Angle Plug and Cord – 24” (60.96cm)				CR367-ND	1.48	1.24	1.13	07190-SP024
	90° Angle Plug and Cord – 36” (91.44cm)				CR368-ND	1.62	1.36	1.23	07190-SP036
	90° Angle Plug and Cord – 72” (182.88cm)				CR369-ND	.88	.75	.68	07190-SP072
19A	90° Angle T-Style Plug and Cord – 12” (30.48cm)	Fits all AC Fans with Terminal Connection Type			CR323-ND	.93	.78	.71	07199-12
	90° Angle T-Style Plug and Cord – 24” (60.96cm)				CR170-ND	.88	.75	.68	07199-24
	90° Angle T-Style Plug and Cord – 36” (91.44cm)				CR175-ND	1.01	.85	.77	07199-36
	90° Angle T-Style Plug and Cord – 72” (182.88cm)				CR337-ND	1.61	1.36	1.23	07199-72
	90° Angle T-Style Plug and Cord – 96” (243.84cm)				CR338-ND	1.91	1.61	1.46	07199-96
19B	90° Angle T-Style Plug and Cord – 36” (91.44cm)				CR371-ND	1.80	1.52	1.37	07199-SP036
	90° Angle T-Style Plug and Cord – 72” (182.88cm)				CR372-ND	2.38	2.00	1.81	07199-SP072

HAMMOND MANUFACTURING

Filament and Low Voltage Rectifier Use Transformers

Schematic Drawing for "Open" and "High Current-Open Frame" styles.

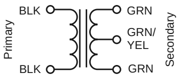


Fig. 1 Open Style

• Primary 115 VAC, 60 Hz • Open style, channel bracket, two hole chassis mount • Minimum 6" (15.24cm) leads • Dual bobbin design - no electrostatic shield required • Class A insulation (105°C) • Hi-Pot test of 2,000V RMS • CSA certified (#LR3902) and UL listed (#E50394)

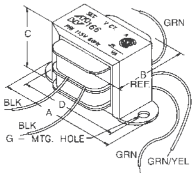


Fig. 2 – High Currrent - Open Frame

• Primary 115 VAC, 60 Hz • Open style, 4 hole frame chassis mount • Minimum 6" (15.24cm) leads • Dual bobbin design - no electrostatic shield required • Class A insulation (105°C) • Hi-Pot test of 2,000V RMS • CSA certified (#LR3902) & UL listed (#E50394)

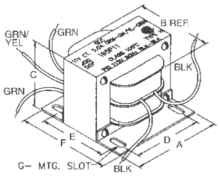


Fig.	Volts† AC	Amps	Dimensions - Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	5	10	25	Hammond Part No.
1	6.3	0.6	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM505-ND	14.97	13.71	12.67	11.86	166G6
1	6.3	4.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM508-ND	17.22	15.78	14.57	13.65	166N6
1	8.5	2.0	3.25 (82.55)	1.63 (41.40)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM510-ND	16.72	15.32	14.15	13.25	166L8
1	9.0	0.5	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM511-ND	16.65	15.25	14.09	13.19	166G9
1	10.0	1.0	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM513-ND	16.28	14.92	13.78	12.90	166J10
1	10.0	2.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM514-ND	16.88	15.47	14.28	13.38	166L10
1	10.0	3.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM515-ND	17.43	15.97	14.75	13.81	166M10
1	12.6	0.3	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM517-ND	16.71	15.30	14.14	13.24	166F12
1	12.6	0.5	2.81 (71.37)	1.50 (38.10)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM518-ND	15.94	14.60	13.49	12.63	166G12
1	12.6	1.0	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM519-ND	16.51	15.12	13.97	13.08	166J12
1	12.6	2.5	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM520-ND	18.31	16.78	15.50	14.52	166L12
1	12.6	4.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM521-ND	21.19	19.41	17.93	16.79	166N12
1	12.6	6.0	4.03 (102.36)	2.25 (57.15)	2.63 (66.60)	3.56 (90.42)	—	—	0.187 (4.75)	HM522-ND	26.50	24.28	22.42	21.00	166Q12
1	12.6	8.0	4.50 (114.30)	2.50 (63.50)	2.88 (73.15)	4.00 (101.60)	—	—	0.203 (5.16)	HM523-ND	29.39	26.92	24.87	23.28	166R12
2	12.6	20.0	3.75 (95.25)	3.63 (92.20)	3.13 (79.50)	3.13 (79.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM525-ND	57.15	52.34	48.36	45.27	165V12
1	14.0	2.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM529-ND	17.29	15.84	14.63	13.70	166L14
1	16.0	2.2	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM533-ND	17.77	16.28	15.03	14.08	166L16
1	16.0	3.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM534-ND	21.13	19.39	17.91	16.77	166M16
1	18.0	1.5	3.25 (82.50)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM535-ND	17.33	15.88	14.67	13.73	166K18
1	18.0	3.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM536-ND	24.34	22.30	20.60	19.28	166M18
1	18.0	5.0	4.03 (102.36)	2.50 (63.50)	2.63 (66.80)	3.56 (90.42)	—	—	0.187 (4.75)	HM537-ND	28.28	25.90	23.93	22.40	166P18
1	20.0	2.0	3.69 (93.73)	1.88 (47.75)	2.31 (56.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM543-ND	23.03	21.09	19.49	18.24	166L20
2	22.0	12.0	4.50 (114.30)	3.88 (98.55)	3.75 (95.25)	3.75 (95.25)	2.75 (69.85)	3.50 (88.90)	.28 x .56 (7.11 x 14.22)	HM544-ND	58.12	53.23	49.18	46.04	165T22
1	24.0	.085	2.06 (52.32)	1.38 (35.05)	1.19 (30.23)	1.75 (44.45)	—	—	0.187 (4.75)	HM546-ND	17.25	15.80	14.60	13.67	166C24
1	24.0	2.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM547-ND	20.58	18.86	17.41	16.31	166L24
1	24.0	4.0	4.50 (114.30)	2.50 (63.50)	2.88 (73.15)	4.00 (101.60)	—	—	0.203 (5.16)	HM548-ND	28.66	26.26	24.25	22.71	166N24
1	25.0	0.5	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM552-ND	16.25	14.90	13.75	12.88	166G25
1	25.0	1.0	3.25 (82.55	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM553-ND	17.25	15.80	14.60	13.67	166J25
1	25.0	1.5	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM554-ND	20.15	18.47	17.05	15.97	166K25
1	25.0	3.0	4.03 (102.36)	2.25 (57.15)	2.63 (66.80)	3.56 (90.42)	—	—	0.187 (4.75)	HM556-ND	25.76	23.59	21.80	20.40	166M25
2	25.0	10.0	3.75 (95.25)	3.63 (92.20)	3.13 (79.50)	3.13 (79.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM558-ND	54.82	50.19	46.38	43.41	165S25
1	28.0	1.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM560-ND	17.26	15.82	14.61	13.68	166J28
2	30.0	5.0	3.00 (76.20)	3.25 (82.55)	2.56 (65.02)	2.50 (63.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM561-ND	44.22	40.50	37.42	35.03	165P30
2	30.0	10.0	4.50 (114.30)	3.88 (98.55)	3.75 (95.25)	3.75 (95.25)	2.75 (69.85)	3.50 (88.90)	.28 x .56 (7.11 x 14.22)	HM562-ND	59.88	54.84	50.67	47.43	165S30
1	36.0	0.5	3.25 (82.55)	1.63 (41.40)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM566-ND	16.55	15.16	14.01	13.11	166G36
1	36.0	1.0	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM567-ND	20.18	18.49	17.08	15.99	166J36
1	44.0	1.0	3.69 (93.73)	2.00 (50.80)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM568-ND	21.03	19.26	17.79	16.66	166J44
1	80.0	0.5	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM569-ND	20.58	18.86	17.41	16.31	166G80

† Center tap voltage is half the voltage shown. All voltage ratings are based on full load current rating shown.

TAMURA

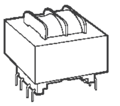
SPLITFORM® Power Transformers

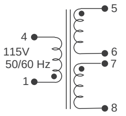
For PC Board Solid-State Power, Control, and Instrumentation Applications

File #'s LR73078, LR69808

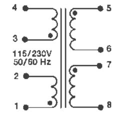
UL 1585 Class 2 &3 - File #'s E96720, 95844
UL 506 - File #'s E79781, E91239
130B - File #92957

• 115V Single or 115/230V 50/60Hz dual primary • Split Bobbin Construction: – Center flange insulation barrier – High isolation for low leakage applications – Low capacitive coupling minimizes line noise and false triggering • 2,500V RMS hi-pot • Precision spaced terminals • 130°C insulation system • Terminal numbers are molded on bobbin

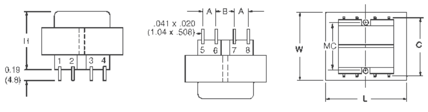




115V Single Primary



115V/250V Dual Primary



(Pins 2 and 3 omitted on 115V Single Primary)

3F(X) Series	VA Size	Dimensions – Inch (mm) L	W	H	MC	A	B	C	Weight Lbs. (kg)
2	1.1	1.44 (36.58)	1.23 (31.24)	1.00 (25.40)	—	.250 (6.35)	.250 (6.35)	1.200 (30.48)	0.17 (.077)
3	2.4	1.44 (36.58)	1.23 (31.24)	1.26 (32.00)	—	.250 (6.35)	.250 (6.35)	1.200 (30.48)	0.25 (.113)
4	6	1.69 (42.93)	1.39 (35.31)	1.36 (34.54)	1.063 (27.00)	.250 (6.35)	.350 (8.89)	1.280 (32.51)	0.44 (.200)
5	12	1.97 (50.04)	1.63 (41.40)	1.50 (38.10)	1.250 (31.75)	.300 (7.62)	.400 (10.16)	1.410 (35.81)	0.70 (.318)

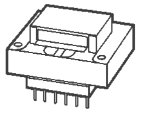
VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Tamura Part No.
115V Single Primary									
1.1	5.0 @ 0.220	10.0 @ 0.110	MT2201-ND	7.08	6.10	5.13	4.40	3.66	3FS-210
2.4	5.0 @ 0.500	10.0 @ 0.250	MT2202-ND	7.37	6.35	5.34	4.58	3.81	3FS-310
6	5.0 @ 1.200	10.0 @ 0.600	MT2203-ND	8.21	7.08	5.95	5.10	4.25	3FS-410
12	5.0 @ 2.400	10.0 @ 1.200	MT2204-ND	9.34	8.05	6.77	5.80	4.83	3FS-510
1.1	6.3 @ 0.180	12.6 @ 0.090	MT2205-ND	7.08	6.10	5.13	4.40	3.66	3FS-212
2.4	6.3 @ 0.400	12.6 @ 0.200	MT2206-ND	7.37	6.35	5.34	4.58	3.81	3FS-312
6	6.3 @ 1.000	12.6 @ 0.500	MT2207-ND	8.21	7.08	5.95	5.10	4.25	3FS-412
12	6.3 @ 2.000	12.6 @ 1.000	MT2208-ND	9.34	8.05	6.77	5.80	4.83	3FS-512
1.1	8.0 @ 0.140	16.0 @ 0.070	MT2209-ND	7.08	6.10	5.13	4.40	3.66	3FS-216
2.4	8.0 @ 0.300	16.0 @ 0.150	MT2210-ND	7.37	6.35	5.34	4.58	3.81	3FS-316
6	8.0 @ 0.800	16.0 @ 0.400	MT2211-ND	8.21	7.08	5.95	5.10	4.25	3FS-416
12	8.0 @ 1.600	16.0 @ 0.800	MT2212-ND	9.34	8.05	6.77	5.80	4.83	3FS-516
1.1	10.0 @ 0.110	20.0 @ 0.055	MT2213-ND	7.08	6.10	5.13	4.40	3.66	3FS-220
2.4	10.0 @ 0.240	20.0 @ 0.120	MT2214-ND	7.37	6.35	5.34	4.58	3.81	3FS-320
6	10.0 @ 0.600	20.0 @ 0.300	MT2215-ND	8.21	7.08	5.95	5.10	4.25	3FS-420
12	10.0 @ 1.200	20.0 @ 0.600	MT2216-ND	9.34	8.05	6.77	5.80	4.83	3FS-520
1.1	12.0 @ 0.090	24.0 @ 0.045	MT2217-ND	7.08	6.10	5.13	4.40	3.66	3FS-224
2.4	12.0 @ 0.200	24.0 @ 0.100	MT2218-ND	7.37	6.35	5.34	4.58	3.81	3FS-324
6	12.0 @ 0.500	24.0 @ 0.250	MT2219-ND	8.21	7.08	5.95	5.10	4.25	3FS-424
12	12.0 @ 1.000	24.0 @ 0.500	MT2220-ND	9.34	8.05	6.77	5.80	4.83	3FS-524
1.1	14.0 @ 0.080	28.0 @ 0.040	MT2221-ND	7.08	6.10	5.13	4.40	3.66	3FS-228
2.4	14.0 @ 0.170	28.0 @ 0.085	MT2222-ND	7.37	6.35	5.34	4.58	3.81	3FS-328
6	14.0 @ 0.400	28.0 @ 0.200	MT2223-ND	8.21	7.08	5.95	5.10	4.25	3FS-428
12	14.0 @ 0.840	28.0 @ 0.420	MT2224-ND	9.34	8.05	6.77	5.80	4.83	3FS-528
1.1	18.0 @ 0.060	36.0 @ 0.030	MT2225-ND	7.08	6.10	5.13	4.40	3.66	3FS-236
2.4	18.0 @ 0.130	36.0 @ 0.065	MT2226-ND	7.37	6.35	5.34	4.58	3.81	3FS-336
6	18.0 @ 0.340	36.0 @ 0.170	MT2227-ND	8.21	7.08	5.95	5.10	4.25	3FS-436
12	18.0 @ 0.700	36.0 @ 0.350	MT2228-ND	9.34	8.05	6.77	5.80	4.83	3FS-536
1.1	24.0 @ 0.046	48.0 @ 0.023	MT2229-ND	7.08	6.10	5.13	4.40	3.66	3FS-248
2.4	24.0 @ 0.100	48.0 @ 0.050	MT2230-ND	7.37	6.35	5.34	4.58	3.81	3FS-348
6	24.0 @ 0.250	48.0 @ 0.125	MT2231-ND	8.21	7.08	5.95	5.10	4.25	3FS-448
12	24.0 @ 0.500	48.0 @ 0.250	MT2232-ND	9.34	8.05	6.77	5.80	4.83	3FS-548
1.1	28.0 @ 0.040	56.0 @ 0.020	MT2233-ND	7.08	6.10	5.13	4.40	3.66	3FS-256
2.4	28.0 @ 0.090	56.0 @ 0.045	MT2234-ND	7.37	6.35	5.34	4.58	3.81	3FS-356
6	28.0 @ 0.220	56.0 @ 0.110	MT2235-ND	8.21	7.08	5.95	5.10	4.25	3FS-456
12	28.0 @ 0.440	56.0 @ 0.220	MT2236-ND	9.34	8.05	6.77	5.80	4.83	3FS-556

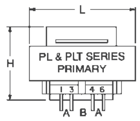
VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Tamura Part No.
115V/230V Dual Primary									
1.1	5.0 @ 0.220	10.0 @ 0.110	MT2096-ND	8.21	7.08	5.95	5.10	4.25	3FD-210
2.4	5.0 @ 0.500	10.0 @ 0.250	MT2097-ND	8.50	7.33	6.16	5.28	4.40	3FD-310
6	5.0 @ 1.200	10.0 @ 0.600	MT2098-ND	9.34	8.05	6.77	5.80	4.83	3FD-410
12	5.0 @ 2.400	10.0 @ 1.200	MT2099-ND	10.76	9.28	7.80	6.68	5.57	3FD-510
1.1	6.3 @ 0.180	12.6 @ 0.090	MT2101-ND	7.65	6.80	5.78	5.10	4.42	3FD-212
2.4	6.3 @ 0.400	12.6 @ 0.200	MT2102-ND	7.74	6.88	5.85	5.16	4.48	3FD-312
6.0	6.3 @ 1.000	12.6 @ 0.500	MT2103-ND	8.37	7.44	6.33	5.58	4.84	3FD-412
12	6.3 @ 2.000	12.6 @ 1.000	MT2104-ND	9.63	8.56	7.28	6.42	5.57	3FD-512
1.1	8.0 @ 0.140	16.0 @ 0.070	MT2105-ND	7.65	6.80	5.78	5.10	4.42	3FD-216
2.4	8.0 @ 0.300	16.0 @ 0.150	MT2106-ND	7.74	6.88	5.85	5.16	4.48	3FD-316
6.0	8.0 @ 0.800	16.0 @ 0.400	MT2107-ND	8.37	7.44	6.33	5.58	4.84	3FD-416
12	8.0 @ 1.600	16.0 @ 0.800	MT2108-ND	9.63	8.56	7.28	6.42	5.57	3FD-516
1.1	10.0 @ 0.110	20.0 @ 0.055	MT2109-ND	7.65	6.80	5.78	5.10	4.42	3FD-220
2.4	10.0 @ 0.240	20.0 @ 0.120	MT2110-ND	7.74	6.88	5.85	5.16	4.48	3FD-320
6.0	10.0 @ 0.600	20.0 @ 0.300	MT2111-ND	8.37	7.44	6.33	5.58	4.84	3FD-420
12	10.0 @ 1.200	20.0 @ 0.600	MT2112-ND	9.63	8.56	7.28	6.42	5.57	3FD-520
1.1	12.0 @ 0.090	24.0 @ 0.045	MT2113-ND	7.65	6.80	5.78	5.10	4.42	3FD-224
2.4	12.0 @ 0.200	24.0 @ 0.100	MT2114-ND	7.74	6.88	5.85	5.16	4.48	3FD-324
6.0	12.0 @ 0.500	24.0 @ 0.250	MT2115-ND	8.37	7.44	6.33	5.58	4.84	3FD-424
12	12.0 @ 1.000	24.0 @ 0.500	MT2116-ND	9.63	8.56	7.28	6.42	5.57	3FD-524
1.1	14.0 @ 0.080	28.0 @ 0.040	MT2117-ND	7.65	6.80	5.78	5.10	4.42	3FD-228
2.4	14.0 @ 0.170	28.0 @ 0.085	MT2118-ND	7.74	6.88	5.85	5.16	4.48	3FD-328
6.0	14.0 @ 0.400	28.0 @ 0.200	MT2119-ND	8.37	7.44	6.33	5.58	4.84	3FD-428
12	14.0 @ 0.840	28.0 @ 0.420	MT2120-ND	9.63	8.56	7.28	6.42	5.57	3FD-528
1.1	18.0 @ 0.060	36.0 @ 0.030	MT2121-ND	7.65	6.80	5.78	5.10	4.42	3FD-236
2.4	18.0 @ 0.130	36.0 @ 0.065	MT2122-ND	7.74	6.88	5.85	5.16	4.48	3FD-336
6.0	18.0 @ 0.340	36.0 @ 0.170	MT2123-ND	8.37	7.44	6.33	5.58	4.84	3FD-436
12	18.0 @ 0.700	36.0 @ 0.350	MT2124-ND	9.63	8.56	7.28	6.42	5.57	3FD-536
1.1	24.0 @ 0.046	48.0 @ 0.023	MT2125-ND	8.21	7.08	5.95	5.10	4.25	3FD-248
2.4	24.0 @ 0.100	48.0 @ 0.050	MT2126-ND	8.50	7.33	6.16	5.28	4.40	3FD-348
6	24.0 @ 0.250	48.0 @ 0.125	MT2127-ND	9.34	8.05	6.77	5.80	4.83	3FD-448
12	24.0 @ 0.500	48.0 @ 0.250	MT2128-ND	10.76	9.28	7.80	6.68	5.57	3FD-548
1.1	28.0 @ 0.040	56.0 @ 0.020	MT2129-ND	8.21	7.08	5.95	5.10	4.25	3FD-256
2.4	28.0 @ 0.090	56.0 @ 0.045	MT2130-ND	8.50	7.33	6.16	5.28	4.40	3FD-356
6	28.0 @ 0.220	56.0 @ 0.110	MT2131-ND	9.34	8.05	6.77	5.80	4.83	3FD-456
12	28.0 @ 0.440	56.0 @ 0.220	MT2132-ND	10.76	9.28	7.80	6.68	5.57	3FD-556

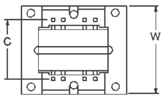
Note: To obtain output voltage, load current must be met, ratings are based on 120V nominal input.

Worldtrans® Power Transformers
For PC Board Solid-State Power, Control, and Instrumentation Applications

- Meets U.S. and International Safety Standards — UL, VDE, IEC, CSA
- 4,000V RMS hipot test — Dual non-concentric bobbins and insulating shroud provide high isolation and reduced capacitance
- 115/230V 50/60Hz primary
- 130°C insulation system — Insulating materials meet UL 94V-0 flammability requirements.



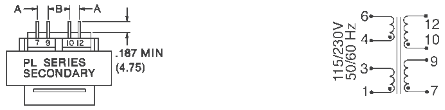




File #LR69222; File #LR69223

File 810/89, 811/89; VCD 0551,0806

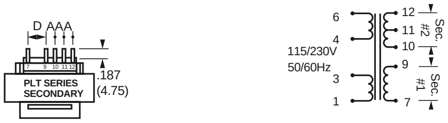
Fig. 1



TUV File 810/89, 811/89; IEC 380 EN60950

File #E79781; UL506
E138028; UI1411

Fig. 2



TUV File 810/89, 811/89; IEC 380 EN60950

File #E79781; UL506
E138028; UI1411

VA Size	Dimensions – Inch (mm)							Mtg. Screw	Pin Square In. (mm)	Wt. Lbs. (kg)
	L	W	H	A†	B	C	D			
2.5	1.625 (41.28)	1.313 (33.35)	1.125 (28.58)	.200 (5.08)	.250 (6.35)	1.000 (25.40)	—	2x #4	.025 (.64)	.25 (.11)
5.0	1.625 (41.28)	1.313 (33.35)	1.375 (34.93)	.200 (5.08)	.400 (10.16)	1.000 (25.40)	—	2x #4	.025 (.64)	.37 (.17)
10.0	1.875 (47.63)	1.563 (39.70)	1.375 (34.93)	.200 (5.08)	.400 (10.16)	1.140 (28.96)	—	2x #4	.036 (.91)	.53 (.24)
20.0	2.250 (57.15)	1.875 (47.63)	1.625 (41.28)	.400 (10.16)	.400 (10.16)	1.460 (37.08)	.40 (10.16)	2x #4	.036 (.91)	.90 (.41)
30.0	2.625 (66.68)	2.188 (55.58)	1.563 (39.70)	.550 (13.97)	.275 (6.98)	1.680 (42.67)	.55 (13.97)	4x #6	.045 (1.14)	1.15 (.52)
56.0	3.000 (76.20)	2.500 (63.50)	1.813 (46.05)	.600 (15.24)	.300 (7.62)	1.900 (48.26)	.60 (15.24)	4x #6	.045 (1.14)	1.70 (.77)

† For PLT series secondary only, dimension A is 1/2 of value shown.

Fig.	VA (Size)	Secondary RMS Rating		Digi-Key Part No.	Price Each*			Tamura Part No.
		Parallel VAC @ A	Series VCT @ A		1	10	25	
PL Series — Dual Output Low Profile								
1	2.5	5 @ 0.5	10 @ 0.25	MT3101-ND	7.97	7.08	6.02	PL2.5-10-130B
	5.0	5 @ 1.0	10 @ 0.5	MT3102-ND	8.60	7.64	6.50	PL5.0-10-130B
	10.0	5 @ 2.0	10 @ 1.0	MT3103-ND	9.47	8.42	7.16	PL10-10-130B
	20.0	5 @ 4.0	10 @ 2.0	MT3104-ND	11.41	10.14	8.62	PL20-10-130B
	30.0	5 @ 6.0	10 @ 3.0	MT3105-ND	13.52	12.02	10.22	PL30-10-130B
	56.0	5 @ 11.2	10 @ 5.6	MT3106-ND	18.14	16.12	13.71	PL56-10-130B
1	2.5	6.3 @ 0.4	12.6 @ 0.2	MT3107-ND	7.97	7.08	6.02	PL2.5-12-130B
	5.0	6.3 @ 0.8	12.6 @ 0.4	MT3108-ND	8.60	7.64	6.50	PL5.0-12-130B
	10.0	6.3 @ 1.6	12.6 @ 0.8	MT3109-ND	9.47	8.42	7.16	PL10-12-130B
	20.0	6.3 @ 3.2	12.6 @ 1.6	MT3110-ND	11.41	10.14	8.62	PL20-12-130B
	30.0	6.3 @ 4.8	12.6 @ 2.4	MT3111-ND	13.52	12.02	10.22	PL30-12-130B
	56.0	6.3 @ 8.8	12.6 @ 4.4	MT3112-ND	18.14	16.12	13.71	PL56-12-130B
1	2.5	8 @ 0.3	16 @ 0.15	MT3113-ND	7.97	7.08	6.02	PL2.5-16-130B
	5.0	8 @ 0.62	16 @ 0.31	MT3114-ND	8.60	7.64	6.50	PL5.0-16-130B
	10.0	8 @ 1.25	16 @ 0.62	MT3115-ND	9.47	8.42	7.16	PL10-16-130B
	20.0	8 @ 2.5	16 @ 1.25	MT3116-ND	11.41	10.14	8.62	PL20-16-130B
	30.0	8 @ 3.8	16 @ 1.9	MT3117-ND	13.52	12.02	10.22	PL30-16-130B
	56.0	8 @ 7.0	16 @ 3.5	MT3118-ND	18.14	16.12	13.71	PL56-16-130B
1	2.5	10 @ 0.24	20 @ 0.12	MT3119-ND	7.97	7.08	6.02	PL2.5-20-130B
	5.0	10 @ 0.5	20 @ 0.25	MT3120-ND	8.60	7.64	6.50	PL5.0-20-130B
	10.0	10 @ 1.0	20 @ 0.5	MT3121-ND	9.47	8.42	7.16	PL10-20-130B
	20.0	10 @ 2.0	20 @ 1.0	MT3122-ND	11.41	10.14	8.62	PL20-20-130B
	30.0	10 @ 3.0	20 @ 1.5	MT3123-ND	13.52	12.02	10.22	PL30-20-130B
	56.0	10 @ 5.6	20 @ 2.8	MT3124-ND	18.14	16.12	13.71	PL56-20-130B
1	2.5	12 @ 0.2	24 @ 0.1	MT3125-ND	7.97	7.08	6.02	PL2.5-24-130B
	5.0	12 @ 0.42	24 @ 0.21	MT3126-ND	8.60	7.64	6.50	PL5.0-24-130B
	10.0	12 @ 0.84	24 @ 0.42	MT3127-ND	9.47	8.42	7.16	PL10-24-130B
	20.0	12 @ 1.66	24 @ 0.83	MT3128-ND	11.41	10.14	8.62	PL20-24-130B
	30.0	12 @ 2.5	24 @ 1.25	MT3129-ND	13.52	12.02	10.22	PL30-24-130B
	56.0	12 @ 4.66	24 @ 2.33	MT3130-ND	18.14	16.12	13.71	PL56-24-130B
1	2.5	14 @ 0.18	28 @ 0.09	MT3131-ND	7.97	7.08	6.02	PL2.5-28-130B
	5.0	14 @ 0.36	28 @ 0.18	MT3132-ND	8.60	7.64	6.50	PL5.0-28-130B
	10.0	14 @ 0.72	28 @ 0.36	MT3133-ND	9.47	8.42	7.16	PL10-28-130B
	20.0	14 @ 1.44	28 @ 0.72	MT3134-ND	11.41	10.14	8.62	PL20-28-130B
	30.0	14 @ 2.12	28 @ 1.06	MT3135-ND	13.52	12.02	10.22	PL30-28-130B
	56.0	14 @ 4.0	28 @ 2.0	MT3136-ND	18.14	16.12	13.71	PL56-28-130B
1	2.5	18 @ 0.14	36 @ 0.07	MT3137-ND	7.97	7.08	6.02	PL2.5-36-130B
	5.0	18 @ 0.28	36 @ 0.14	MT3138-ND	8.60	7.64	6.50	PL5.0-36-130B
	10.0	18 @ 0.56	36 @ 0.28	MT3139-ND	9.47	8.42	7.16	PL10-36-130B
	20.0	18 @ 1.12	36 @ 0.56	MT3140-ND	11.41	10.14	8.62	PL20-36-130B
	30.0	18 @ 1.64	36 @ 0.82	MT3141-ND	13.52	12.02	10.22	PL30-36-130B
	56.0	18 @ 3.12	36 @ 1.56	MT3142-ND	18.14	16.12	13.71	PL56-36-130B
Fig.	**VA (Size)**	**Sec. #1 VAC @ A**	**Sec. #2 VCT @ A**	**Digi-Key Part No.**	**Price Each* 1**	**10**	**25**	**Tamura Part No.**
PLT Series — Triple Output								
2	20.0	9.3 @1.5	27.5 @ .22	MT3143-ND†	13.61	12.10	10.29	PLT20-32-130B
	30.0	9.3 @ 2.2	27.5 @ .34	MT3144-ND†	15.77	14.02	11.92	PLT30-32-130B
	56.0	9.3 @4.0	27.5 @ .68	MT3145-ND†	20.52	18.24	15.51	PLT56-32-130B

Note: *To obtain output voltage, load current must be met, ratings based on 120V nominal input.*

† Intended for use as a regulated power supply transformer, 5VDC and ±12VDC.

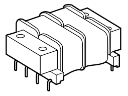
* Call for price on quantities of 50 or more.

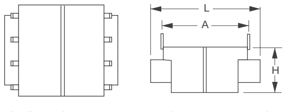
FLAT STACK® Low Profile Power Transformers

For low height PC Board Solid-State Power, Control, and Instrumentation

Split Bobbin:

- Primaries and secondaries wound side by side
- High isolation for low leakage applications 1500V hi-pot
- Low capacity coupling minimizes line noise and false triggering.
- Hum-bucking semi-toroidal construction
- Precision spaced terminals
- Dual primaries: 115/230V, 50/60Hz
- No load to Full Regulation: 30%; 12VA, 20%





Pin dimensions: 0.091” x 0.2” (2.31mm x .51mm)

UL 506 File #E145619, E79781
130°C Insulation System

CSA22,2 No. 66
File # LR81383-7

130B*
File No. E92957

* 130B for 3FL series only, up to 12VA size

Fig. 1

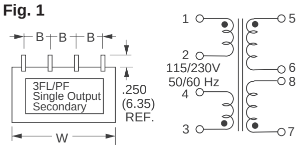
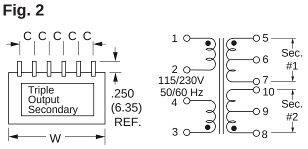


Fig. 2



VA (Size)	Dimensions – Inch (mm)						Weight Oz. (Gram)
	L	W	H	A	B	C	
2.5	1.87 (47.50)	1.56 (39.62)	0.65 (16.51)	1.6 (40.64)	.375 (9.52)	.187 (4.75)	5 (141.75)
6	1.875 (47.63)	1.56 (39.70)	0.85 (21.59)	1.6 (40.64)	.375 (9.52)	.187 (4.75)	7 (198.44)
12	2.5 (63.50)	2.0 (50.80)	1.065 (27.05)	2.0 (50.80)	.500 (12.70)	.250 (6.35)	11 (311.84)
24	2.87 (72.90)	2.25 (57.15)	1.25 (31.75)	1.9 (48.26)	.530 (13.46)	.300 (7.62)	15 (425.24)

Fig.	VA (Size)	Secondary RMS Rating		Digi-Key Part No.	Price Each*			Tamura Part No.
		Parallel VAC @ A	Series VCT @ A		1	10	25	
1	2.5	5.0 @ 0.5	10 @ 0.25	MT1101-ND	8.78	7.80	6.63	3FL10-250
	6.0	5.0 @ 1.2	10 @ 0.6	MT1102-ND	9.63	8.56	7.28	3FL10-600
	12.0	5.0 @ 2.4	10 @ 1.2	MT1103-ND	12.38	11.00	9.35	3FL10-1200
	24.0	5.0 @ 4.8	10 @ 2.4	MT1104-ND	13.73	12.20	10.37	PF24-10
1	2.5	6.3 @ 0.4	12.6 @ 0.2	MT1105-ND	8.78	7.80	6.63	3FL12-200
	6.0	6.3 @ 0.9	12.6 @ 0.45	MT1106-ND	9.63	8.56	7.28	3FL12-475
	12.0	6.3 @ 1.9	12.6 @ 0.95	MT1107-ND	12.38	11.00	9.35	3FL12-950
	24.0	6.3 @ 3.8	12.6 @ 1.9	MT1108-ND	13.73	12.20	10.37	PF24-12
1	2.5	8 @ 0.3	16 @ 0.15	MT1109-ND	8.78	7.80	6.63	3FL16-150
	6.0	8 @ 0.7	16 @ 0.35	MT1110-ND	9.63	8.56	7.28	3FL16-350
	12.0	8 @ 1.5	16 @ 0.75	MT1111-ND	12.38	11.00	9.35	3FL16-700
	24.0	8 @ 3.0	16 @ 1.5	MT1112-ND	13.73	12.20	10.37	PF24-16
1	2.5	10 @ 0.25	20 @ 0.125	MT1113-ND	8.78	7.80	6.63	3FL20-125
	6.0	10 @ 0.6	20 @ 0.3	MT1114-ND	9.63	8.56	7.28	3FL20-300
	12.0	10 @ 1.2	20 @ 0.6	MT1115-ND	12.38	11.00	9.35	3FL20-600
	24.0	10 @ 2.4	20 @ 1.2	MT1116-ND	13.73	12.20	10.37	PF24-20
1	2.5	12 @ 0.2	24 @ 0.1	MT1117-ND	8.78	7.80	6.63	3FL24-100
	6.0	12 @ 0.5	24 @ 0.25	MT1118-ND	9.63	8.56	7.28	3FL24-250
	12.0	12 @ 1.0	24 @ 0.5	MT1119-ND	12.38	11.00	9.35	3FL24-500
	24.0	12 @ 2.0	24 @ 1.0	MT1120-ND	13.73	12.20	10.37	PF24-24
1	2.5	15 @ 0.17	30 @ 0.085	MT1121-ND	8.78	7.80	6.63	3FL30-85
	6.0	15 @ 0.4	30 @ 0.2	MT1122-ND	9.63	8.56	7.28	3FL30-200
	12.0	15 @ 0.8	30 @ 0.4	MT1123-ND	12.38	11.00	9.35	3FL30-400
	24.0	15 @ 1.6	30 @ 0.8	MT1124-ND	13.73	12.20	10.37	PF24-30
1	2.5	17 @ 0.15	34 @ .075	MT1125-ND	8.78	7.80	6.63	3FL34-75
	6.0	17 @ 0.34	34 @ 0.17	MT1126-ND	9.63	8.56	7.28	3FL34-170
	12.0	17 @ 0.7	34 @ 0.35	MT1127-ND	12.38	11.00	9.35	3FL34-340
	24.0	17 @ 1.4	34 @ 0.7	MT1128-ND	13.73	12.20	10.37	PF24-34
Fig.	**VA (Size)**	**Sec. #1 VCT @ A**	**Sec. #2 VCT @ A**	**Digi-Key Part No.**	**Price Each* 1**	**10**	**25**	**Tamura Part No.**
PFT Series — Triple Output								
2	6.0	17.5 @ .155	31.5@ .065	MT1129-ND†	7.67	6.82	5.80	PFT6-32
	6.0	17.5 @ .155	37.5 @ .060	MT1130-ND†	7.67	6.82	5.80	PFT6-38
	12.0	16 @ .36	28 @ .187	MT1132-ND†	8.87	7.88	6.70	PFT12-28
	12.0	16 @ .36	35 @ .150	MT1131-ND†	8.87	7.88	6.70	PFT12-35
	24.0	16 @ .72	28 @ .375	MT1134-ND†	10.46	9.30	7.91	PFT24-28
	24.0	16 @ .72	35 @ .300	MT1133-ND†	10.46	9.30	7.91	PFT24-35

Note: *To obtain output voltage, load current must be met, ratings based on 120V nominal input.*

† Intended for use as a regulated power supply transformer, 5VDC, and ± 12VDC or ± 15VDC.

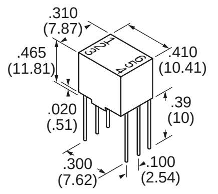
* Call for price on quantities of 50 or more.

Encapsulated Transformers — MIL-T-27 Type

Telecom, Input, Interface, Isolation and Output Impedance Matching

Features:

- FCC Part 68 Models available ‡
- Dielectric Strength: 1kVrms
- Operating Temperature: ≤105°C
- Frequency Response: ±2dB, .3≈100kHz.



Physical pin locations vary, see chart.

Matching Impedance Primary : Secondary	PRI § maDC	PRI • (MW)	Pin Location Primary	Pin Location Secondary	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tamura Part No.
200kCT : 1kCT	0.00	10	1 - 2CT - 3	4 - 5CT - 6	MT4143-ND	18.00	16.00	13.60	MET-01
25kCT : 1kCT	0.50	30	1 - 2CT - 3	4 - 5CT - 6	MT4144-ND	17.55	15.60	13.26	MET-05
10kCT : 10kCT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4145-ND	17.55	15.60	13.26	MET-09
10kCT : 2kCT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4146-ND	17.55	15.60	13.26	MET-11
10kCT : 500CT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4147-ND	17.55	15.60	13.26	MET-17
1.6kCT : 3.2	2.50	50	1 - 2CT - 3	4 - 6	MT4148-ND	14.33	12.74	10.83	MET-23
1k : 50	3.00	50	1 - 3	4 - 6	MT4149-ND	14.33	12.74	10.83	MET-28
900CT : 600	3.00	50	1 - 2CT - 3	4 - 6	MT4150-ND‡	15.66	13.92	11.84	MET-29
600CT : 600CT	3.00	50	1 - 2CT - 3	4 - 5CT - 6	MT4111-ND‡	25.83	22.96	19.52	MET-31
600 : 600CT†	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4151-ND	15.21	13.52	11.50	MET-32
600CT : 8	4.50	50	1 - 2CT - 3	4 - 6	MT4153-ND	13.91	12.36	10.51	MET-35
500 : 500CT†	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4154-ND	15.66	13.92	11.84	MET-38
500 : 50	3.00	50	1 - 3	4 - 6	MT4155-ND	13.91	12.36	10.51	MET-39
150 : 12	10.00	50	1 - 3	4 - 6	MT4156-ND	13.91	12.36	10.51	MET-42
600 : 600	3.00	50	1 - 3	4 - 6	MT4110-ND‡	24.50	21.78	18.52	MET-46
600 : 600CT	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4152-NDΔ	15.21	13.52	11.50	MET-59
MU Metal Shield, MET Series, Slip-On Can					MT4157-ND	2.50	2.22	1.89	METC-99

† CT-Winding can be connected as a center tapped winding or as two isolated windings.
§ PRI maDC-Primary maximum rated unbalanced current in milli-amps, DC.
Δ Has special pinout
• PWR (mW)-Maximum power level in milli-watts @ 300Hz
‡ Meets FCC part 68 (hi-pot 1.5kV or 1.0kV).

Telephone Coupling Transformers

For Interconnecting Data/Voice Telephone Lines per FCC part 68.
Frequency Response: 300-3500Hz±0.5dB. **Hi-pot:** 1500V RMS. **Impedance Matching:** ±10%.
UL 1459, File #138028.
Drawings show maximum number of pins. Actual parts may have fewer pins.

Fig. 1

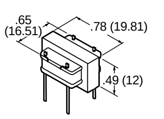


Fig. 2

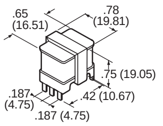


Fig. 3

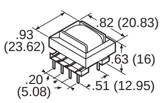


Fig. 4

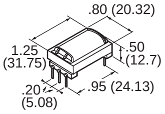


Fig. 5

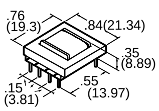


Fig. 6

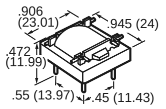


Fig. 7 - Surface Mt.

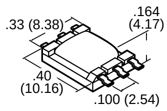


Fig. 8 - Surface Mt.

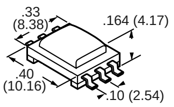


Fig. 9

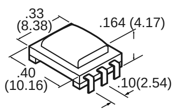


Fig. 10 - Surface Mt.

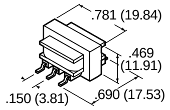
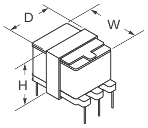


Fig. 11



	Dimensions Inch (mm): W	Dimensions Inch (mm): D	Dimensions Inch (mm): H
MT4139-ND (TTC-167)	.69 (17.5)	.61 (15.5)	.55 (14.0)
MT4140-ND (TTC-170)	.51 (13.0)	53 (13.4)	.42 (10.7)

Fig. 12

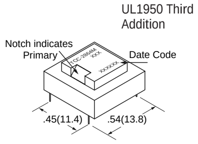
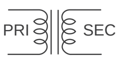
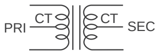


Fig.	Impedance Primary	Impedance Secondary	IDC (mA)	Insertion Loss (dB) ◊	Schematic	Pinout Primary	Pinout Secondary	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tamura Part No.
1	600	600	0	1.0	A	1 - 3	4 - 6	MT4112-ND	4.73	4.20	3.57	T1104
1	600	600	0	1.2	A	1 - 3	4 - 6	MT4133-ND	3.51	3.12	2.66	TTC-02
2‡	600	600	0	1.0	A	1 - 3	4 - 6	MT4113-ND	9.83	8.74	7.43	TTC-110
2	600CT	600CT	0	1.0	B	1 - 2CT - 3	4 - 5CT - 6	MT4114-ND	11.34	10.08	8.57	TTC-09
2	600	600/600	0	1.0	D	1 - 6	2 - 5 / 3 - 4	MT4115-ND*	13.34	11.86	10.09	TTC-10
2‡	600	600	90	2.0	A	1 - 3	4 - 6	MT4134-ND	2.95	2.62	2.23	TTC-105
2	600	600CT	90	2.0	C	1 - 3	4 - 5CT - 6	MT4135-ND	3.04	2.70	2.30	TTC-105-1
2	600CT	600CT	0	1.2	B	1 - 2CT - 3	4 - 5CT - 6	MT4136-ND	2.95	2.62	2.23	TTC-108
2‡	4K	600	0	0.9	A	1 - 3	4 - 6	MT4137-ND	3.87	3.44	2.93	TTC-13
3	600	600	90	2.0	A	2 - 3	5 - 8	MT4116-ND	8.33	7.40	6.29	TTC-109N
3	600	600CT	90	2.0	C	2 - 3	5 - 6CT - 8	MT4117-ND	8.33	7.40	6.29	TTC-109N1
4‡	600	600	90	1.8	A	1 - 3	4 - 6	MT4118-ND	9.61	8.54	7.26	TTC-142
4	600	600 Split	90	1.8	D	1 - 6	2 - 5 Split / 3 - 4	MT4119-ND	9.92	8.82	7.50	TTC-142-2
4‡	600	600	90	1.6	A	1 - 3	4 - 6	MT4138-ND	5.09	4.52	3.85	TTC-143
4	600	600/600	50	1.0§	D	1 - 6	2 - 5 / 3 - 4	MT4141-ND	5.36	4.76	4.05	TTC-174
5	600	600	50	1.8	A	1 - 4	5 - 8	MT4120-ND	10.13	9.00	7.65	TTC-218
6	600	470	100	2.5	A	1 - 2	3 - 4	MT4123-ND	6.05	5.38	4.58	TTC-264
7	600	346	0	2.75	A	1 - 3	4 - 6	MT4121-ND†	13.48	11.98	10.19	TTC-103SL
8	600	346	0	2.75	A	1 - 3	4 - 6	MT4122-ND	13.48	11.98	10.19	TTC-203SL
9	600	346	0	2.7	A	1 - 3	4 - 6	MT4124-ND	13.48	11.98	10.19	TTC-303SL
10	600	600	0	1.0	A	1 - 3	4 - 6	MT4130-ND	11.54	10.26	8.73	TS1104
10	600	600/600	0	.7	D	1 - 6	3 - 4 / 2 - 5	MT4132-ND	14.00	12.44	10.58	TS1220
11	10K	10K	0	1.4	A	1 - 3	4 - 6	MT4139-ND	3.69	3.28	2.79	TTC-167
11	600	600	0	1.7	A	1 - 3	4 - 6	MT4140-ND	3.33	2.96	2.52	TTC-170
12	600	470	100	2.5	A	1 - 2	3 - 4	MT4142-ND	4.52	4.02	3.42	TTC-264M

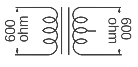
Schematic A



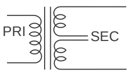
Schematic B



Schematic C



Schematic D

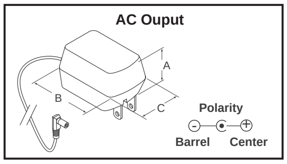


◊ Typical insertion loss (IL) in dB @ rated unbalanced maDC, 0dBm and 1kHz.
§ Add 3dB fo IL for single hybrid use with balancing network on 2-wire side.
‡ Has a 4-pin configuration

† TSL103SL must be mounted through a circuit board cutout .4" (10.16mm) x .33" (8.38mm)
* Two required for conventional hybrid operation, the insertion loss does not include 3dB in hybrid balance network.

TAMURA

Wall Mount Transformers 2.1mm I.D. x 5.5mm O.D. Female/Right Angle Connector



Specifications: • **Cord Length:** 1830 +150/-0.0mm(6ft) Min. • **Output Receptacle:** 2.1mm I.D. x 5.5mm O.D. x 12.50mm Barrel length, Right Angle (molded) Female Barrel Connector/Nickel Plated • **Load Regulation:** None • **Electrical Specifications:** Input-AC 120V ±10%, 60Hz ±0.5Hz • **Operating Temperature:** -10°C to +40°C • **Storage Temperature:** -20°C to +85°C • **Humidity:** 0 to 95% without condensation • **Withstand Voltage:** 1000Vrms 1 minute @input to output • **Safety Agencies:** UL and cUL File No. E218172

Size Code	Dimensions mm (Inch) A	B	C	Tamura Series
1	35.50±1.0 (1.398±0.039)	63.50±1.0 (2.50±0.039)	40.00±1.0 (1.575±0.039)	212AS
2	43.00±1.0 (1.69±0.039)	70.00±1.0 (2.756±0.039)	46.00±1.0 (1.811±0.039)	318AS
3	46.50±1.0 (1.83±0.039)	72.00±1.0 (2.835±0.039)	52.00±1.0 (2.047±0.039)	420AS
4	52.50±1.0 (2.067±0.039)	91.00±1.0 (3.58±0.039)	58.00±1.0 (2.28±0.039)	830AS
5	62.00 (2.441)NOM	103.00 (4.055)	62.00 (2.441)	835AS

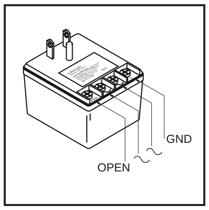
Size Code	Ratings Volt.	mA	Digi-Key Part No.	Price Each 1	10	25	100	Tamura Part No.
AC Output								
1	12VAC	125	MT7117-ND	5.14	4.38	3.58	3.34	212AS12012
2		375	MT7118-ND	5.97	5.04	4.12	3.88	318AS12037
3		750	MT7119-ND	6.10	5.97	4.89	3.96	420AS12075
4		1A	MT7166-ND	9.74	8.28	7.31	6.33	830AS12100
5		1.5A	MT7120-ND	12.34	11.33	9.27	8.02	835AS12150
1	16VAC	100	MT7121-ND	5.41	4.38	3.58	3.52	212AS16010
2		300	MT7122-ND	5.45	5.04	4.12	3.54	318AS16030
3		560	MT7123-ND	6.51	5.97	4.89	3.54	420AS16056
4		900	MT7168-ND	9.70	8.24	7.27	6.30	830AS16090
5		1.125A	MT7124-ND	12.36	11.33	9.27	7.28	835AS16112
1	20VAC	75	MT7125-ND	4.77	4.38	3.58	3.10	212AS20007
2		225	MT7126-ND	5.46	5.04	4.12	3.55	318AS20022
3		450	MT7127-ND	6.51	5.97	4.89	3.55	420AS20045
4		800	MT7170-ND	9.80	8.33	7.35	6.37	830AS20080
5		900	MT7128-ND	12.36	11.33	9.27	7.31	835AS20090
1	24VAC	60	MT7129-ND	4.76	4.38	3.58	3.10	212AS24006
2		200	MT7130-ND	5.47	5.04	4.12	3.55	318AS24020
3		375	MT7131-ND	8.07	5.97	4.89	4.34	420AS24037
4		700	MT7172-ND	9.74	8.28	7.30	6.33	830AS24070
5		750	MT7132-ND	12.36	11.33	9.27	7.31	835AS24075

Size Code	Ratings Volt.	mA	Digi-Key Part No.	Price Each 1	10	25	100	Tamura Part No.
DC Output								
1	3VDC	320	MT7133-ND	5.34	4.90	4.01	3.47	212AS03032
2		1A	MT7134-ND	7.70	7.07	5.79	5.00	318AS03100
4		1.75A	MT7161-ND	12.30	10.45	9.22	7.99	830AS03175
1	4.5VDC	250	MT7135-ND	5.17	4.73	3.87	3.36	212AS04025
2		700	MT7136-ND	6.31	5.78	4.73	4.10	318AS04070
3		1A	MT7137-ND	8.35	7.68	6.28	5.43	420AS04100
4		1.5A	MT7162-ND	13.06	11.10	9.80	8.49	830AS04150
1	6VDC	200	MT7138-ND	5.19	4.76	3.90	3.38	212AS06020
2		500	MT7139-ND	6.09	5.59	4.57	3.96	318AS06050
3		900	MT7140-ND	8.07	7.40	6.06	5.24	420AS06090
4		1.25A	MT7163-ND	12.82	10.90	9.61	8.33	830AS06125
1	9VDC	125	MT7141-ND	5.07	4.65	3.81	3.29	212AS09012
2		350	MT7142-ND	6.14	5.64	4.62	3.99	318AS09035
3		600	MT7143-ND	7.15	6.58	5.38	4.65	420AS09060
4		1A	MT7164-ND	11.16	9.48	8.37	7.25	830AS09100
5		1.4A	MT7144-ND	15.16	13.92	11.39	9.86	835AS09140
1	12VDC	100	MT7145-ND	5.14	4.73	3.87	3.34	212AS12010
2		300	MT7146-ND	5.99	5.50	4.50	3.89	318AS12030
3		500	MT7147-ND	7.37	6.77	5.54	4.79	420AS12050
4		800	MT7165-ND	11.22	9.53	8.41	7.29	830AS12080
5		1A	MT7148-ND	13.33	12.24	10.02	8.67	835AS12100
1	15VDC	75	MT7149-ND	5.21	4.73	3.87	3.39	212AS15007
2		250	MT7150-ND	6.19	5.48	4.48	4.02	318AS15025
3		400	MT7151-ND	7.44	6.82	5.58	4.72	420AS15040
4		700	MT7167-ND	10.79	9.17	8.09	7.02	830AS15070
5		800	MT7152-ND	13.26	12.16	9.95	8.62	835AS15080
1	18VDC	60	MT7153-ND	5.22	4.79	3.92	3.10	212AS18006
2		200	MT7154-ND	6.19	5.70	4.66	4.02	318AS18020
3		350	MT7155-ND	7.86	7.21	5.90	4.46	420AS18035
4		600	MT7169-ND	10.96	9.31	8.22	7.12	830AS18060
5		700	MT7156-ND	13.38	12.27	10.04	8.70	835AS18070
1	24VDC	50	MT7157-ND	5.43	4.98	4.08	3.10	212AS24005
2		150	MT7158-ND	6.10	5.59	4.57	3.96	318AS24015
3		250	MT7159-ND	8.35	6.66	5.45	5.43	420AS24025
4		450	MT7171-ND	10.30	8.76	7.73	6.70	830AS24045
5		500	MT7160-ND	12.57	11.53	9.43	8.17	835AS24050

Note: Output voltage shown is at full load current.

AC-AC Wall Plug-In Transformers

Screw Terminal Type - 120VAC, 60Hz



Features:

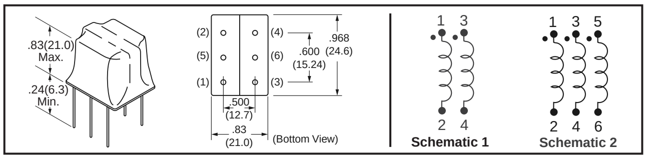
- UL Class II Xfmrs-UL 1310 Listed • Thermal overload protection
- Material: Black ABS resin/UL 94-V0 • Screw terminal, 4 each, #6-32

Rated Output Volts AC	mA AC	Digi-Key Part No.	Price Each 1	10	25	Tamura Part No.
10.0	1200	MT7101-ND	11.77	10.46	8.90	820A0060-03
10.0	2000	MT7109-ND	13.75	12.22	10.39	830A0060-03
12.0	1000	MT7102-ND	11.77	10.46	8.90	820A0061-03
12.0	1600	MT7110-ND	13.75	12.22	10.39	820A0061-03
14.0	850	MT7103-ND	11.77	10.46	8.90	820A0062-03
14.0	1430	MT7111-ND	13.75	12.22	10.39	830A0062-03
16.0	750	MT7104-ND	11.77	10.46	8.90	820A0063-03
16.0	1250	MT7112-ND	13.05	11.60	9.86	830A0063-03
18.0	650	MT7105-ND	11.77	10.46	8.90	820A0064-03
18.0	1110	MT7113-ND	13.05	11.60	9.86	830A0064-03
20.0	600	MT7106-ND	11.77	10.46	8.90	820A0065-03
20.0	1000	MT7114-ND	13.05	11.60	9.86	830A0065-03
22.0	550	MT7107-ND	11.77	10.46	8.90	820A0066-03
22.0	900	MT7115-ND	13.05	11.60	9.86	830A0066-03
24.0	500	MT7108-ND	11.77	10.46	8.90	820A0067-03
24.0	830	MT7116-ND	13.05	11.60	9.86	830A0067-03

Note: Output voltage shown is at full load current.

Encapsulated SCR and Triac Trigger Transformers

Designed for isolation in half and full wave SCR or TRIAC control circuits. Pass 2600V rms dielectric breakdown testing.



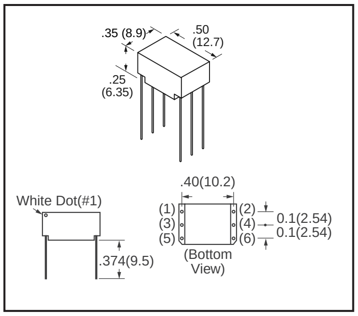
Schematic No.	Turns Ratio (±5%)	Primary mH (min.)	E.T. V µSec (min.)	Digi-Key Part No.	Price Each 1	10	25	Tamura Part No.
1	1 : 1	1.0	90	MT4301-ND	13.70	12.18	10.36	STT-101
1	1 : 1	5.0	200	MT4302-ND	13.70	12.18	10.36	STT-102
1	1 : 1	10.0	280	MT4303-ND	13.70	12.18	10.36	STT-103
2	1 : 1 : 1	1.0	90	MT4304-ND	15.28	13.58	11.55	STT-104
2	1 : 1 : 1	5.0	200	MT4305-ND	15.28	13.58	11.55	STT-105
2	1 : 1 : 1	10.0	280	MT4306-ND	15.28	13.58	11.55	STT-106
1	2 : 1	1.0	90	MT4307-ND	13.70	12.18	10.36	STT-107
1	2 : 1	5.0	200	MT4308-ND	13.70	12.18	10.36	STT-108
1	2 : 1	10.0	280	MT4309-ND	13.70	12.18	10.36	STT-109
2	2 : 1 : 1	1.0	90	MT4310-ND	15.28	13.58	11.55	STT-110
2	2 : 1 : 1	5.0	200	MT4311-ND	15.28	13.58	11.55	STT-111
2	2 : 1 : 1	10.0	280	MT4312-ND	15.28	13.58	11.55	STT-112

Encapsulated Pulse Transformers Isolation and Data Interface

Specifications: • **Average Power Rating (40°C Rise):** 500mW • **Dissipation Rating:** 150mW • **Peak Pulse Voltage:** 100V • **Dielectric Strength:** DC500V 1 minute • **Insulation Resistance:** DC500V 10000MΩ min.

Primary Inductance mH (min.)⁎	Primary ET Product V µS (min.)	Rise Time ns (max.)	Pin Out Primary	Secondary	Tertiary	Turns Ratio (±5%) Pri : Sec : Ter	Digi-Key Part No.	Price Each 1	10	25	Tamura Part No.
5.00	25.0	10.5	1, 2	3, 4	5, 6	1 : 1 : 1	MT4201-ND	3.60	3.20	2.72	G500
2.00	16.0	8.2	1, 2	3, 4	5, 6	1 : 1 : 1	MT4202-ND	3.24	2.88	2.45	G501
0.50	8.5	5.3	1, 2	3, 4	5, 6	1 : 1 : 1	MT4203-ND	2.88	2.56	2.18	G502
0.20	5.0	4.2	1, 2	3, 4	5, 6	1 : 1 : 1	MT4204-ND	2.70	2.40	2.04	G503
0.05	5.2	5.6	1, 2	3, 4	5, 6	1 : 1 : 1	MT4205-ND	2.70	2.40	2.04	G504
5.00	25.0	16.0	1, 2	3, 4	5, 6	2 : 1 : 1	MT4210-ND	4.14	3.68	3.13	G505
2.00	16.0	11.0	1, 2	3, 4	5, 6	2 : 1 : 1	MT4211-ND	3.60	3.20	2.72	G506
0.50	8.5	5.6	1, 2	3, 4	5, 6	2 : 1 : 1	MT4212-ND	3.06	2.72	2.32	G507
2.00	16.0	8.2	1, 3ct, 5	2, 4ct, 6	—	1ct : 1ct	MT4207-ND	3.24	2.88	2.45	G508
0.50	8.5	5.3	1, 3ct, 5	2, 4ct, 6	—	1ct : 1ct	MT4208-ND	2.88	2.56	2.18	G509
2.00	16.0	11.0	1, 3ct, 5	2, 4ct, 6	—	2ct : 1ct	MT4213-ND	3.24	2.88	2.45	G512
1.20	10.0	5.3	1, 2	3, 4	5, 6	1 : 1 : 1	MT4206-ND	3.24	2.88	2.45	G513
0.20	5.0	3.2	1, 3ct, 5	2, 4ct, 6	—	2ct : 1ct	MT4214-ND	2.70	2.40	2.04	G515
0.50	8.5	5.6	1, 2	3, 4	—	1 : 1.3	MT4209-ND	2.70	2.40	2.04	G516

⁎ Primary Inductance is typical primary open circuit inductance.



AMVECO
TOROIDAL POWER PRODUCTS

"Mini" Toroidal Transformer

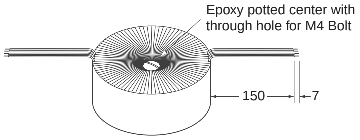
UL File #E122978

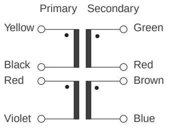
Wire Leaded 115/230VAC, 50/60 Hz Dual Primary

Lower strayfield, higher efficiency, reduced "standby" current and reduced weight.

• Safety standard certification (UL 506) • UL certifications to +40°C (1.6VA-25VA) • Hipot testing at 4000V between primary and secondary

Ambient operating temperature: +60°C maximum. Insulation system recognized for Class A (105°C) and meets all requirements of Class E (125°C).





Power VA	Dimensions OD x ID x H mm	Weight Total gr	Reg. ΔV/Sec %	Δt °C	Eff. %	No Load mA	230V Fuse* mA	Max. Secondary Range VA	Reg. ΔV/Sec %	Δt °C	Eff. %	230V Fuse* mA
1.6	37.5 x 7.0 x 17.0	71	29	10	77	1	32	2.0	60	30	60	32
3.2	42.0 x 7.0 x 17.5	89	41	20	70	1.5	32	3.7	80	40	50	50
5.0	47.0 x 6.0 x 18.0	115	45	29	70	2	50	5.5	80	40	50	63
7.0	47.0 x 6.0 x 21.5	145	34	25	74	3	63	7.5	70	40	60	80
10.0	53.5 x 6.8 x 23.5	216	20	24	82	3	80	12	60	45	60	100
15.0	57.5 x 7.0 x 24.0	262	23	27	81	4	100	16	60	40	65	125
25.0	58.0 x 13.8 x 34.5	388	19	28	84	5	160	—	—	—	—	—
35.0	72.0 x 17.0 x 33.5	453	17.7	31	85	7	200	—	—	—	—	—
50.0	78.0 x 22.5 x 35.0	670	15.5	30	86	8	315	—	—	—	—	—

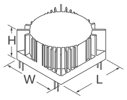
* Recommend Slo-Blo. Double the fuse current for 120 volt operation.

Power VA	Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
1.6	7 @ .228	14 @ .114	TE62000-ND	13.68	12.16	10.64	9.73	62000
	9 @ .178	18 @ .089	TE62001-ND	13.68	12.16	10.64	9.73	62001
	12 @ .134	24 @ .067	TE62002-ND	13.68	12.16	10.64	9.73	62002
	15 @ .106	30 @ .053	TE62003-ND	13.68	12.16	10.64	9.73	62003
	18 @ .088	36 @ .044	TE62004-ND	13.68	12.16	10.64	9.73	62004
	22 @ .072	44 @ .036	TE62005-ND	13.68	12.16	10.64	9.73	62005
3.2	7 @ .458	14 @ .229	TE62010-ND	13.68	12.16	10.64	9.73	62010
	9 @ .356	18 @ .178	TE62011-ND	13.68	12.16	10.64	9.73	62011
	12 @ .266	24 @ .133	TE62012-ND	13.68	12.16	10.64	9.73	62012
	15 @ .214	30 @ .107	TE62013-ND	13.68	12.16	10.64	9.73	62013
	18 @ .178	36 @ .089	TE62014-ND	13.68	12.16	10.64	9.73	62014
	22 @ .146	44 @ .073	TE62015-ND	13.68	12.16	10.64	9.73	62015
5.0	7 @ .714	14 @ .357	TE62020-ND	13.68	12.16	10.64	9.73	62020
	9 @ .556	18 @ .278	TE62021-ND	13.68	12.16	10.64	9.73	62021
	12 @ .416	24 @ .208	TE62022-ND	13.68	12.16	10.64	9.73	62022
	15 @ .334	30 @ .167	TE62023-ND	13.68	12.16	10.64	9.73	62023
	18 @ .278	36 @ .139	TE62024-ND	13.68	12.16	10.64	9.73	62024
	22 @ .228	44 @ .114	TE62025-ND	13.68	12.16	10.64	9.73	62025
7.0	7 @ 1.0	14 @ .500	TE62030-ND	14.24	12.66	11.08	10.13	62030
	9 @ .778	18 @ .389	TE62031-ND	14.24	12.66	11.08	10.13	62031
	12 @ .584	24 @ .292	TE62032-ND	14.24	12.66	11.08	10.13	62032
	15 @ .466	30 @ .233	TE62033-ND	14.24	12.66	11.08	10.13	62033
	18 @ .388	36 @ .194	TE62034-ND	14.24	12.66	11.08	10.13	62034
	22 @ .318	44 @ .159	TE62035-ND	14.24	12.66	11.08	10.13	62035
10.0	7 @ 1.428	14 @ .714	TE62040-ND	15.48	13.76	12.04	11.01	62040
	9 @ 1.112	18 @ .556	TE62041-ND	15.48	13.76	12.04	11.01	62041
	12 @ .834	24 @ .417	TE62042-ND	15.48	13.76	12.04	11.01	62042
	15 @ .666	30 @ .333	TE62043-ND	15.48	13.76	12.04	11.01	62043
	18 @ .556	36 @ .278	TE62044-ND	15.48	13.76	12.04	11.01	62044
	22 @ .454	44 @ .227	TE62045-ND	15.48	13.76	12.04	11.01	62045
15.0	7 @ 2.142	14 @ 1.071	TE62050-ND	16.25	14.44	12.64	11.56	62050
	9 @ 1.666	18 @ .833	TE62051-ND	16.25	14.44	12.64	11.56	62051
	12 @ 1.250	24 @ .625	TE62052-ND	16.25	14.44	12.64	11.56	62052
	15 @ 1.000	30 @ .500	TE62053-ND	16.25	14.44	12.64	11.56	62053
	18 @ .834	36 @ .417	TE62054-ND	16.25	14.44	12.64	11.56	62054
	22 @ .682	44 @ .341	TE62055-ND	16.25	14.44	12.64	11.56	62055
25.0	7 @ 3.570	14 @ 1.785	TE62060-ND	16.25	14.44	12.64	11.56	62060
	9 @ 2.754	18 @ 1.377	TE62061-ND	16.25	14.44	12.64	11.56	62061
	12 @ 2.082	24 @ 1.041	TE62062-ND	16.25	14.44	12.64	11.56	62062
	15 @ 1.664	30 @ .832	TE62063-ND	16.25	14.44	12.64	11.56	62063
	18 @ 1.388	36 @ .694	TE62064-ND	16.25	14.44	12.64	11.56	62064
	22 @ 1.136	44 @ .568	TE62065-ND	16.25	14.44	12.64	11.56	62065
35.0	7 @ 5.000	14 @ 2.500	TE62070-ND	16.83	14.96	13.09	11.97	62070
	9 @ 3.888	18 @ 1.944	TE62071-ND	16.83	14.96	13.09	11.97	62071
	12 @ 2.916	24 @ 1.458	TE62072-ND	16.83	14.96	13.09	11.97	62072
	15 @ 2.332	30 @ 1.166	TE62073-ND	16.83	14.96	13.09	11.97	62073
	18 @ 1.944	36 @ .972	TE62074-ND	16.83	14.96	13.09	11.97	62074
	22 @ 1.590	44 @ .795	TE62075-ND	16.83	14.96	13.09	11.97	62075
50.0	7 @ 7.142	14 @ 3.571	TE62080-ND	18.83	16.74	14.65	13.40	62080
	9 @ 5.554	18 @ 2.777	TE62081-ND	18.83	16.74	14.65	13.40	62081
	12 @ 4.166	24 @ 2.083	TE62082-ND	18.83	16.74	14.65	13.40	62082
	15 @ 3.332	30 @ 1.666	TE62083-ND	18.83	16.74	14.65	13.40	62083
	18 @ 2.776	36 @ 1.388	TE62084-ND	18.83	16.74	14.65	13.40	62084
	22 @ 2.272	44 @ 1.136	TE62085-ND	18.83	16.74	14.65	13.40	62085

Note: *To obtain output voltage, load current must be met.*

Toroidal Transformer

PC Mount, Low Profile 115/230V, 50/60 Hz Dual Primary

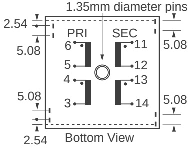


Low Magnetic strayfield emissions, higher efficiency, reduced "standby" current, reduced weight, fully encapsulated durable body formation.

• Safety standard certification (UL 506, UL 1950, UL File E122978, E138299) • VDE 0805, IEC 950, EN 60950 • UL and VDE certifications to +40°C (1.6VA-25VA) • Hipot testing at 4000V between primary and secondary (VDE0550) • Maximum ambient temperature of +60°C for 1.6VA-25VA, +40°C for 35VA and 50VA models

Recognized for insulation Class A (105°C) and meets all requirements of Class E (125°C).

1.6-25VA - Blind insert M4 X 6 threads, 1.0 x 0.5mm pins
35-50VA - M5 through hole, 1.35mm diameter pins



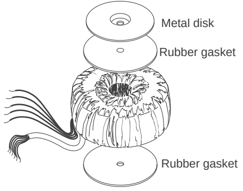
Power VA	Dimensions (Pin Length 5mm) L x W x H mm	Pin Pattern XY mm	Weight Total gr	Reg. ΔV/Sec %	Δt °C	Eff. %	Excitation Current mA	230V Fuse* mA	Max. Secondary Range VA	Reg. ΔV/Sec %	Δt °C	Eff. %	230V Fuse* mA
1.6	39.6 x 39.6 x 18.5	35.56	82	29	10	77	1.0	32	2.0	60	30	60	32
3.2	44.7 x 44.7 x 19.5	40.64	110	43	20	70	1.5	32	3.7	80	40	50	50
5.0	49.7 x 49.7 x 19.5	45.72	144	40	29	68	2.0	50	5.5	80	40	50	63
7.0	49.7 x 49.7 x 23.1	45.72	174	34	25	74	3.0	63	7.5	70	40	60	80
10.0	55.0 x 55.0 x 26.0	50.80	252	20	24	82	3.0	80	12.0	60	45	60	100
15.0	60.0 x 60.0 x 26.3	55.88	304	23	27	80	4.0	100	16.0	60	40	65	125
25.0	60.0 x 60.0 x 37.5	55.88	435	19	28	83	5.0	160	—	—	—	—	—
35.0	72.0 x 72.0 x 37.5	66.04	525	17.7	31	81	7.0	200	—	—	—	—	—
50.0	82.4 x 82.4 x 37.5	76.02	685	15.5	30	86	8.0	315	—	—	—	—	—

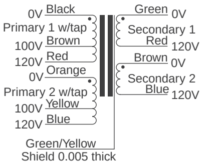
* Recommend Slo-Blo. Double the fuse current for 120 volt operation.

Power VA	Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
1.6	7 @ .228	14 @ .114	TE70000-ND	9.34	8.30	7.27	6.64	70000
	9 @ .178	18 @ .089	TE70001-ND	9.34	8.30	7.27	6.64	70001
	12 @ .134	24 @ .067	TE70002-ND	9.34	8.30	7.27	6.64	70002
	15 @ .106	30 @ .053	TE70003-ND	9.34	8.30	7.27	6.64	70003
	18 @ .088	36 @ .044	TE70004-ND	9.34	8.30	7.27	6.64	70004
	22 @ .072	44 @ .036	TE70005-ND	9.34	8.30	7.27	6.64	70005
3.2	7 @ .458	14 @ .229	TE70010-ND	10.76	9.56	8.37	7.65	70010
	9 @ .356	18 @ .178	TE70011-ND	10.76	9.56	8.37	7.65	70011
	12 @ .266	24 @ .133	TE70012-ND	10.76	9.56	8.37	7.65	70012
	15 @ .214	30 @ .107	TE70013-ND	10.76	9.56	8.37	7.65	70013
	18 @ .178	36 @ .089	TE70014-ND	10.76	9.56	8.37	7.65	70014
	22 @ .146	44 @ .073	TE70015-ND	10.76	9.56	8.37	7.65	70015
5.0	7 @ .714	14 @ .357	TE70020-ND	11.41	10.14	8.88	8.12	70020
	9 @ .556	18 @ .278	TE70021-ND	11.41	10.14	8.88	8.12	70021
	12 @ .416	24 @ .208	TE70022-ND	11.41	10.14	8.88	8.12	70022
	15 @ .334	30 @ .167	TE70023-ND	11.41	10.14	8.88	8.12	70023
	18 @ .278	36 @ .139	TE70024-ND	11.41	10.14	8.88	8.12	70024
	22 @ .228	44 @ .114	TE70025-ND	11.41	10.14	8.88	8.12	70025
7.0	7 @ 1.0	14 @ .500	TE70030-ND	12.87	11.44	10.01	9.16	70030
	9 @ .778	18 @ .389	TE70031-ND	12.87	11.44	10.01	9.16	70031
	12 @ .584	24 @ .292	TE70032-ND	12.87	11.44	10.01	9.16	70032
	15 @ .466	30 @ .233	TE70033-ND	12.87	11.44	10.01	9.16	70033
	18 @ .388	36 @ .194	TE70034-ND	12.87	11.44	10.01	9.16	70034
	22 @ .318	44 @ .159	TE70035-ND	12.87	11.44	10.01	9.16	70035
10.0	7 @ 1.428	14 @ .714	TE70040-ND	14.45	12.84	11.24	10.28	70040
	9 @ 1.112	18 @ .556	TE70041-ND	14.45	12.84	11.24	10.28	70041
	12 @ .834	24 @ .417	TE70042-ND	14.45	12.84	11.24	10.28	70042
	15 @ .666	30 @ .333	TE70043-ND	14.45	12.84	11.24	10.28	70043
	18 @ .556	36 @ .278	TE70044-ND	14.45	12.84	11.24	10.28	70044
	22 @ .454	44 @ .227	TE70045-ND	14.45	12.84	11.24	10.28	70045
15.0	7 @ 2.142	14 @ 1.071	TE70050-ND	16.22	14.42	12.62	11.54	70050
	9 @ 1.666	18 @ .833	TE70051-ND	16.22	14.42	12.62	11.54	70051
	12 @ 1.250	24 @ .625	TE70052-ND	16.22	14.42	12.62	11.54	70052
	15 @ 1.000	30 @ .500	TE70053-ND	16.22	14.42	12.62	11.54	70053
	18 @ .834	36 @ .417	TE70054-ND	16.22	14.42	12.62	11.54	70054
	22 @ .682	44 @ .341	TE70055-ND	16.22	14.42	12.62	11.54	70055
25.0	7 @ 3.570	14 @ 1.785	TE70060-ND	18.23	16.20	14.18	12.96	70060
	9 @ 2.754	18 @ 1.377	TE70061-ND	18.23	16.20	14.18	12.96	70061
	12 @ 2.082	24 @ 1.041	TE70062-ND	18.23	16.20	14.18	12.96	70062
	15 @ 1.664	30 @ .832	TE70063-ND	18.23	16.20	14.18	12.96	70063
	18 @ 1.388	36 @ .694	TE70064-ND	18.23	16.20	14.18	12.96	70064
	22 @ 1.136	44 @ .568	TE70065-ND	18.23	16.20	14.18	12.96	70065
35.0	7 @ 5.000	14 @ 2.500	TE70070-ND	22.34	19.86	17.38	15.89	70070
	9 @ 3.888	18 @ 1.944	TE70071-ND	22.34	19.86	17.38	15.89	70071
	12 @ 2.916	24 @ 1.458	TE70072-ND	22.34	19.86	17.38	15.89	70072
	15 @ 2.332	30 @ 1.166	TE70073-ND	22.34	19.86	17.38	15.89	70073
	18 @ 1.944	36 @ .972	TE70074-ND	22.34	19.86	17.38	15.89	70074
	22 @ 1.590	44 @ .795	TE70075-ND	22.34	19.86	17.38	15.89	70075
50.0	7 @ 7.142	14 @ 3.571	TE70080-ND	27.65	24.58	21.51	19.67	70080
	9 @ 5.554	18 @ 2.777	TE70081-ND	27.65	24.58	21.51	19.67	70081
	12 @ 4.166	24 @ 2.083	TE70082-ND	27.65	24.58	21.51	19.67	70082
	15 @ 3.332	30 @ 1.666	TE70083-ND	27.65	24.58	21.51	19.67	70083
	18 @ 2.776	36 @ 1.388	TE70084-ND	27.65	24.58	21.51	19.67	70084
	22 @ 2.272	44 @ 1.136	TE70085-ND	27.65	24.58	21.51	19.67	70085

Note: *To obtain output voltage, load current must be met.*

Medical Grade Power and Isolation Transformers





Features:

- Lifetime warranty
- Quad Primaries: 100V, 120V, 220V, 240V - 50/60Hz
- Disk mounting hardware: metal disk, (2) rubber gaskets
- UL 544, UL 2601, IEC 601, CSA 22.2 No. 601.1
- 10” color coded wire leads

Nominal Power (VA)	Diameter x Thickness (In.)	Weight (lb.)
100	4.0 x 2.0	2.7
230	4.6 x 2.4	5.2
400	5.5 x 2.5	8
600	6.2 x 3.1	13
750	6.6 x 3.1	14
1000	6.9 x 3.5	20
1500	8.2 x 4.0	28
2000	9.1 x 4.4	35
2500	9.4 x 4.5	39
3000	10.0 x 4.3	47

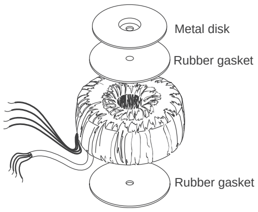
Nominal Power VA	Secondary Current @ 120VAC (A)	Secondary Current @ 240VAC (A)	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
100	0.83	0.42	TE0100DS-ND	144.00	128.00	112.00	102.40	MT0100DS
230	1.92	0.96	TE0230DS-ND	168.75	150.00	131.25	120.00	MT0230DS
400	3.33	1.67	TE0400DS-ND	180.00	160.00	140.00	128.00	MT0400DS
600	5.00	2.50	TE0600DS-ND	216.00	192.00	168.00	153.60	MT0600DS
750	6.25	3.12	TE0750DS-ND	220.50	196.00	171.50	156.80	MT0750DS
1000	8.33	4.16	TE1000DS-ND	267.75	238.00	208.25	190.40	MT1000DS
1500	12.5	6.25	TE1500DS-ND	348.75	310.00	271.25	248.00	MT1500DS
2000	16.6	8.33	TE2000DS-ND	411.75	366.00	320.25	292.80	MT2000DS
2500	20.8	10.4	TE2500DS-ND	445.50	396.00	346.50	316.80	MT2500DS
3000	25.0	12.5	TE3000DS-ND	472.50	420.00	367.50	336.00	MT3000DS

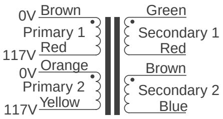
Note: Multiple primaries must be connected in series or parallel, if assistance is needed please contact Digi-Key Technical department for additional hook-up information.

International Toroidal Power Transformers

Features:

- Lifetime warranty
- 2 x 117V/50-60Hz primaries
- Class A (105°C)
- Disk mounting hardware: metal disk, (2) rubber gaskets
- 10" color coded wire leads



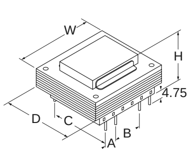


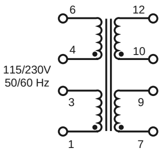
Nominal Power VA	Diameter x Thickness (In.)	Weight (lb.)	Mounting Hole Size
95	3.9 x 1.5	2.2	1/4"
140	3.9 x 1.9	3	1/4"
185	4.5 x 1.9	4	1/4"
240	4.5 x 2.1	4.8	1/4"
300	4.6 x 2.6	5.7	1/4"
375	5.4 x 2.0	6.7	1/4"
460	5.4 x 2.6	7.9	1/4"
625	5.5 x 3.2	9.5	1/4"
800	6.4 x 2.7	12.3	5/16"
990	6.5 x 3.0	15.2	5/16"

Nom. Power VA	Secondary Ratings Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
95	9 @ 10.6	18 @ 5.30	TE50952009-ND	84.49	75.10	65.72	60.08	AA50952-009
	12 @ 7.80	24 @ 3.90	TE50952012-ND	85.50	76.00	66.50	60.80	AA50952-012
	22 @ 4.40	44 @ 2.20	TE50952022-ND	86.06	76.50	66.94	61.20	AA50952-022
140	18 @ 7.80	36 @ 3.90	TE51402018-ND	86.63	77.00	67.38	61.60	AA51402-018
	22 @ 6.40	44 @ 3.20	TE51402022-ND	88.88	79.00	69.13	63.20	AA51402-022
	24 @ 5.80	48 @ 2.90	TE51402024-ND	88.88	79.00	69.13	63.20	AA51402-024
	117 @ 1.20	234 @ 0.60	TE51402117-ND	96.75	86.00	75.25	68.80	AA51402-117
185	15 @ 12.40	30 @ 6.20	TE51852015-ND	90.00	80.00	70.00	64.00	AA51852-015
	117 @ 1.60	234 @ 0.80	TE51852117-ND	100.13	89.00	77.88	71.20	AA51852-117
240	15 @ 16.00	30 @ 8.00	TE52402015-ND	97.31	86.50	75.69	69.20	AA52402-015
	117 @ 2.00	234 @ 1.00	TE52402117-ND	109.35	97.20	85.05	77.76	AA52402-117
300	15 @ 20.00	30 @ 10.00	TE53002015-ND	97.88	87.00	76.13	69.60	AA53002-015
	24 @ 12.40	48 @ 6.20	TE53002024-ND	97.88	87.00	76.13	69.60	AA53002-024
	38 @ 7.80	76 @ 3.90	TE53002038-ND	104.63	93.00	81.38	74.40	AA53002-038
	117 @ 2.60	234 @ 1.30	TE53002117-ND	101.81	90.50	79.19	72.40	AA53002-117
460	30 @ 15.40	60 @ 7.70	TE54602030-ND	126.56	112.50	98.44	90.00	AA54602-030
	117 @ 4.00	234 @ 2.00	TE54602117-ND	128.81	114.50	100.19	91.60	AA54602-117
625	24 @ 26.00	48 @ 13.00	TE56252024-ND	135.00	120.00	105.00	96.00	AA56252-024
	30 @ 20.80	60 @ 10.40	TE56252030-ND	135.00	120.00	105.00	96.00	AA56252-030
	117 @ 5.40	234 @ 2.70	TE56252117-ND	142.88	127.00	111.13	101.60	AA56252-117
800	24 @ 33.40	48 @ 16.70	TE58002024-ND	164.25	146.00	127.75	116.80	AA58002-024
	48 @ 16.40	96 @ 8.20	TE58002048-ND	164.25	146.00	127.75	116.80	AA58002-048
	117 @ 6.80	234 @ 3.40	TE58002117-ND	164.25	146.00	127.75	116.80	AA58002-117
990	24 @ 41.20	48 @ 20.60	TE59902024-ND	160.88	143.00	125.13	114.40	AA59902-024
	55 @ 18.00	110 @ 9.00	TE59902055-ND	166.50	148.00	129.50	118.40	AA59902-055
	117 @ 8.40	234 @ 4.20	TE59902117-ND	169.88	151.00	132.13	120.80	AA59902-117

PC Mount - World Series™ Power Transformers

- World Series dual bobbin construction transformers meet U.S. & international standards including CSA, IEC, VDE & UL requirements.
- Hi-Pot Test: 4,000 VRMS
- Primary: 115/230V, 50/60 Hz





VA Size	Dimensions – Inch (mm) H	W	D	A	B	C	Pin Dim.	Wt. Kg
2.5	1.125 (28.58)	1.625 (41.28)	1.3125 (33.34)	.200 (5.08)	.250 (6.35)	1.000 (25.40)	.025 (.64)	.25 (.11)
5.0	1.375 (34.93)	1.625 (41.28)	1.3125 (33.34)	.200 (5.08)	.400 (10.16)	1.000 (25.40)	.025 (.64)	.37 (.17)
10.0	1.375 (34.93)	1.875 (47.63)	1.5625 (39.69)	.200 (5.08)	.400 (10.16)	1.140 (28.96)	.031 (.79)	.53 (.24)
20.0	1.625 (41.28)	2.25 (57.15)	1.875 (47.63)	.400 (10.16)	.400 (10.16)	1.460 (37.08)	.031 (.79)	.90 (.41)
30.0	1.5625 (39.69)	2.625 (66.68)	2.1875 (55.56)	.550 (13.97)	.275 (6.98)	1.680 (42.67)	.045 (1.14)	1.15 (.52)
56.0	1.8125 (46.04)	3.000 (76.20)	2.500 (63.50)	.600 (15.24)	.300 (7.62)	1.900 (48.26)	.045 (1.14)	1.70 (.77)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
2.5	5 @ 0.5	10 @ 0.25	237-1060-ND	9.62	6.51	5.70	VPP10-250
5.0	5 @ 1.0	10 @ 0.5	237-1081-ND	10.36	7.04	6.16	VPP10-500
10.0	5 @ 2.0	10 @ 1.0	237-1053-ND	11.60	7.76	6.78	VPP10-1000
20.0	5 @ 4.0	10 @ 2.0	237-1067-ND	14.11	9.35	8.18	VPP10-2000
30.0	5 @ 6.0	10 @ 3.0	237-1074-ND	16.22	11.08	9.69	VPP10-3000
56.0	5 @ 11.2	10 @ 5.6	237-1088-ND	19.84	12.30	10.44	VPP10-5600
2.5	6.3 @ 0.4	12.6 @ 0.2	237-1061-ND	9.62	6.51	5.70	VPP12-200
5.0	6.3 @ 0.8	12.6 @ 0.4	237-1082-ND	10.36	7.04	6.16	VPP12-400
10.0	6.3 @ 1.6	12.6 @ 0.8	237-1054-ND	11.60	7.76	6.78	VPP12-800
20.0	6.3 @ 3.2	12.6 @ 1.6	237-1068-ND	14.11	9.35	8.18	VPP12-1600
30.0	6.3 @ 4.8	12.6 @ 2.4	237-1075-ND	16.22	11.08	9.69	VPP12-2400
56.0	6.3 @ 8.8	12.6 @ 4.4	237-1089-ND	19.84	12.30	10.44	VPP12-4400
2.5	8 @ 0.3	16 @ 0.15	237-1062-ND	9.62	6.51	5.70	VPP16-150
5.0	8 @ 0.62	16 @ 0.31	237-1083-ND	10.36	7.04	6.16	VPP16-310
10.0	8 @ 1.25	16 @ 0.62	237-1055-ND	11.60	7.76	6.78	VPP16-620
20.0	8 @ 2.5	16 @ 1.25	237-1069-ND	14.11	9.35	8.18	VPP16-1250
30.0	8 @ 3.8	16 @ 1.9	237-1076-ND	16.22	11.08	9.69	VPP16-1900
56.0	8 @ 7.0	16 @ 3.5	237-1090-ND	19.84	12.30	10.44	VPP16-3500
2.5	10 @ 0.24	20 @ 0.12	237-1063-ND	9.62	6.51	5.70	VPP20-120
5.0	10 @ 0.5	20 @ 0.25	237-1084-ND	10.36	7.04	6.16	VPP20-250
10.0	10 @ 1.0	20 @ 0.5	237-1056-ND	11.60	7.76	6.78	VPP20-500
20.0	10 @ 2.0	20 @ 1.0	237-1070-ND	14.11	9.35	8.18	VPP20-1000
30.0	10 @ 3.0	20 @ 1.5	237-1077-ND	16.22	11.08	9.69	VPP20-1500
56.0	10 @ 5.6	20 @ 2.8	237-1091-ND	19.84	12.30	10.44	VPP20-2800
2.5	12 @ 0.2	24 @ 0.1	237-1064-ND	9.62	6.51	5.70	VPP24-100
5.0	12 @ 0.42	24 @ 0.21	237-1085-ND	10.36	7.04	6.16	VPP24-210
10.0	12 @ 0.84	24 @ 0.42	237-1057-ND	11.60	7.76	6.78	VPP24-420
20.0	12 @ 1.66	24 @ 0.83	237-1071-ND	14.11	9.35	8.18	VPP24-830
30.0	12 @ 2.50	24 @ 1.25	237-1078-ND	16.22	11.08	9.69	VPP24-1250
56.0	12 @ 4.66	24 @ 2.33	237-1092-ND	19.84	12.30	10.44	VPP24-2330
2.5	14 @ 0.18	28 @ 0.09	237-1065-ND	9.62	6.51	5.70	VPP28-090
5.0	14 @ 0.36	28 @ 0.18	237-1086-ND	10.36	7.04	6.16	VPP28-180
10.0	14 @ 0.72	28 @ 0.36	237-1058-ND	11.60	7.76	6.78	VPP28-360
20.0	14 @ 1.44	28 @ 0.72	237-1072-ND	14.11	9.35	8.18	VPP28-720
30.0	14 @ 2.12	28 @ 1.06	237-1079-ND	16.22	11.08	9.69	VPP28-1060
56.0	14 @ 4.0	28 @ 2.0	237-1094-ND	19.84	12.30	10.44	VPP28-2000
2.5	18 @ 0.14	36 @ 0.07	237-1066-ND	9.62	6.51	5.70	VPP36-070
5.0	18 @ 0.28	36 @ 0.14	237-1087-ND	10.36	7.04	6.16	VPP36-140
10.0	18 @ 0.56	36 @ 0.28	237-1059-ND	11.60	7.76	6.78	VPP36-280
20.0	18 @ 1.12	36 @ 0.56	237-1073-ND	14.11	9.35	8.18	VPP36-560
30.0	18 @ 1.64	36 @ 0.82	237-1080-ND	16.22	11.08	9.69	VPP36-820
56.0	18 @ 3.12	36 @ 1.56	237-1095-ND	19.84	12.30	10.44	VPP36-1560

*CT = Center Tap

PARALLAX
POWER
COMPONENTS L.L.C.

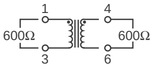
Audio Transformers

Data/Voice Coupling Transformers

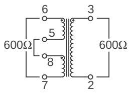
SPECIFICATIONS: Designed to meet FCC Part 68.
Longitudinal Balance: (FCC68.310): 60dB min. 200-1000 HZ, 45 dB mn. 1000-4000 HZ.
Dielectric Strength: (FCC 68.304): 1500V.
Freq. Range: Data/Voice = 300 - 3500 HZ, Data = 800 - 3500 HZ

Schematic A

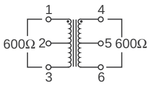
TY-305P	PRI 2, 3; SEC 6, 7
TY-307P, TY-310P TY-311P, TY-400P TY-301P, TY-303P TY-402P	PRI 1, 3; SEC 4, 6



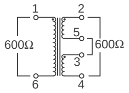
Schematic B



Schematic C



Schematic D



Schematic E

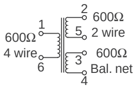


Fig. 1

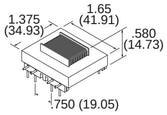


Fig. 2

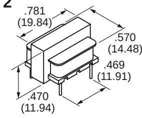


Fig. 3

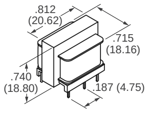


Fig. 4

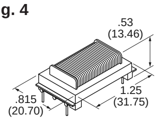


Fig. 5

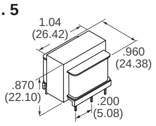


Fig. 6

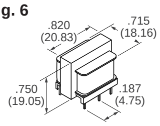


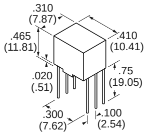
Fig.	Sche-matic	Impedance Pri.	Sec.	IDC Max (mA)	Insertion Loss (dB)	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
Data/Voice Coupling Transformers										
1	A	600	600	100	1.5	237-1128-ND	10.94	7.14	6.06	TY-305P
1	B	600 Split	600	75	1.5	237-1129-ND	10.94	7.14	6.06	TY-306P
2	A	600	600	0	1.0	237-1130-ND	6.41	4.18	3.55	TY-307P
3‡	A	600	600	0	1.0	237-1132-ND	5.56	3.63	3.08	TY-311P
3	C	600CT*	600CT*	0	1.0	237-1127-ND	5.56	3.63	3.08	TY-304P
3	A	600	900	0	1.0	237-1124-ND	5.56	3.63	3.08	TY-301P
3	A	4000	600	0	1.0	237-1126-ND	5.56	3.63	3.08	TY-303P
6‡	A	600	600	90	1.75	237-1133-ND	8.34	5.44	4.62	TY-400P
6	C	600CT*	600CT*	90	1.75	237-1134-ND	8.34	5.44	4.62	TY-401P
4‡	A	600	600	90	1.75	237-1135-ND	6.89	4.50	3.82	TY-402P
4	D	600	600 Split	90	1.75	237-1136-ND	6.89	4.50	3.82	TY-403P
Data/Voice Dual Transformer Hybrids										
3	E	600 (4W)	600/600	0	.80	237-1123-ND†	5.56	3.63	3.08	TY-300P
5	E	600 (4W)	600/600	0	.65	237-1125-ND†	8.33	5.44	4.62	TY-302P

*CT = Center Tap ‡ Four-pin configuration
†Two required for conventional hybrid operation, the insertion loss does not include 3dB in hybrid balance network.

MIL-T-27E Audio Transformers

DESCRIPTION: The line of Red Spec audio transformers is designed and constructed to meet the rigid requirements of MIL-T-27E.
SPECIFICATIONS: Freq. Response Ranges: 300 Hz to 150 kHz
TECHNICAL NOTES: • HI-Pot Test: 1,000 VRMS • Working Voltage: 150 VDC

Pin-Out #	Pinout Primary	Secondary
1	1,2	3,4
2	1, 2CT, 3	4, 5
3	1, 2CT, 3	4, 5CT, 6
4	1, 2	3, 4,§, 5, 6



Power Level in mW	Matching Impedance Pri.	Sec.	DC Unbal. in Pri. Max(mA)	Pin-Out #	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
10	200,000 CT*	1,000 CT*	0.0	3	237-1137-ND	21.29	13.90	11.79	SP-4
50	10,000 CT*	2,000 CT*	1.0	3	237-1141-ND	21.21	13.85	11.75	SP-21
	1,000	50	3.0	1	237-1144-ND	17.25	11.26	9.55	SP-33
	150 CT*	12	10.0	2	237-1145-ND	15.51	10.13	8.59	SP-42
	7,500 CT*	12	1.0	2	237-1146-ND	18.39	12.00	10.18	SP-48
	900 CT*	600	4.0	2	237-1149-ND	19.12	12.47	10.58	SP-51
	10,000 CT*	10,000 CT*	1.0	3	237-1151-ND	16.93	11.05	9.38	SP-66
	600 CT*	600 CT*	3.0	3	237-1152-ND	18.64	12.17	10.32	SP-67
	600	600 CT/150§	3.0	4	237-1154-ND	18.56	12.11	10.28	SP-69
	600	600	3.0	1	237-1155-ND	17.48	11.42	9.69	SP-70
—	—	Shield Only	—	—	237-1157-ND	2.76	1.80	1.53	SP-310

*CT = Center Tap § Split Secondary

Audio PC Mount Transformers

DESCRIPTION:
Audio transformers are used in line matching, telephone coupling, pulse trigger and driver applications.

SPECIFICATIONS:
Freq. Response Ranges: 200 - 15,000Hz

Fig. 1

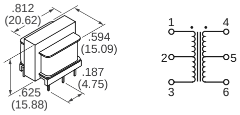


Fig. 2

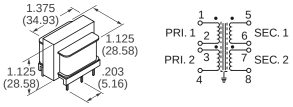
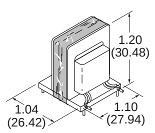


Fig.	Matching Impedance Pri.	Sec.	DC Unbal. in Pri. Max (mA)	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
1	10,000 CT*	10,000 CT*	4 Ma	237-1118-ND	3.89	2.54	2.16	TY-141P
1	10,000 CT*	2,000 CT*	4 Ma	237-1119-ND	3.89	2.54	2.16	TY-142P
1	15,000 CT*	15,000 CT*	4 Ma	237-1120-ND	3.89	2.54	2.16	TY-144P
1	600 CT*	600 CT*	15 Ma	237-1121-ND	3.89	2.54	2.16	TY-145P
2	600 CT/150§	600 CT/150§	—	237-1122-ND	7.22	4.72	4.00	TY-146P

*CT = Center Tap § Split Winding

Switchmode Transformers

High Frequency Gate Drive



DESCRIPTION:
TRIAD gate drive transformers are used to isolate the control circuitry from the line-connected switches such as with power supplies. The windings are interleaved for the lowest possible practical leakage inductance. Maximum leakage Inductance: 2.5 µH. Features operating frequencies up to 200 kHz.

TECHNICAL NOTES:
• Hi-Pot tested: 3,750 VRMS. • Pin-out: Drive = Pins 1, 2. Gate = Pins 3, 6 and Dual Gate = Pins 3, 4; 5, 6.

Max. DCR Gate	Max. ET Product	Turns Ratio	Min. Inductance	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
.350 Ohms	540 VµSec	1:1	.680 mH	237-1111-ND	15.56	10.15	8.61	GDE25-1
.650 Ohms	540 VµSec	1:1:1	.680 mH	237-1112-ND*	15.56	10.15	8.61	GDE25-2
.350 Ohms	840 VµSec	1.5:1	1.50 mH	237-1113-ND	15.56	10.15	8.61	GDE25-3
.650 Ohms	840 VµSec	1.5:1:1	1.50 mH	237-1114-ND*	15.56	10.15	8.61	GDE25-4
.875 Ohms	540 VµSec	1:1.5	.680 mH	237-1115-ND	15.56	10.15	8.61	GDE25-5
1.75 Ohms	540 VµSec	1:1.5:1.5	.680 mH	237-1116-ND*	15.56	10.15	8.61	GDE25-6

* Dual Secondary Gate

237-1117-ND (GDE25-KIT) - 6-piece kit (one of each)..**$88.89**

Switchmode / High Frequency Inductors

Common Mode Inductors

DESCRIPTION:
• TRIAD common mode EMI suppression inductors are used to eliminate noise common to all lines. • Meeting VDE, IEC, UL and CSA requirements. • Constructed with UL rated 130°C materials. • Hi-Pot Tested: 2,500 VRMS.

Fig. 1

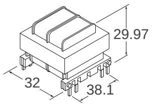


Fig. 2

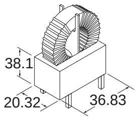


Fig. 3

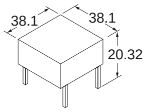


Fig.	Induct. mH min.	Amps. R.M.S	Max DC Resist. (Ohms)	Min. Leakage	Pin-Out Winding I	Winding II	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
E-Core Inductors											
1	4.40	5.500	.049	45.0µH	1 & 6	7 & 12	237-1210-ND	6.78	4.43	3.76	CME375-1
	6.90	4.400	.077	70.0µH			237-1211-ND	6.78	4.43	3.76	CME375-2
	10.9	3.500	.122	125.0µH			237-1212-ND	6.78	4.43	3.76	CME375-3
	17.8	2.700	.196	180.0µH			237-1213-ND	6.78	4.43	3.76	CME375-4
	28.6	2.200	.316	300.0µH			237-1214-ND	6.78	4.43	3.76	CME375-5
	43.6	1.750	.489	440.0µH			237-1215-ND	6.78	4.43	3.76	CME375-6
	70.3	1.380	.785	720.0µH			237-1216-ND	6.78	4.43	3.76	CME375-7
	111.6	1.100	1.240	1.1mH			237-1217-ND	6.78	4.43	3.76	CME375-8
	176.1	0.870	1.980	1.8mH			237-1218-ND	6.78	4.43	3.76	CME375-9
Encapsulated Toroidal Inductors											
2	2.00	7.50	.020	25.0µH	1 & 2	3 & 4	237-1230-ND	4.78	3.12	2.65	CMT908-V1
	4.00	5.20	.040	45.0µH			237-1231-ND	4.78	3.12	2.65	CMT908-V2
	8.00	3.20	.120	90.0µH			237-1232-ND	4.78	3.12	2.65	CMT908-V3
	16.00	2.60	.160	180.0µH			237-1233-ND	4.78	3.12	2.65	CMT908-V4
3	2.00	7.50	.020	25.0µH	1 & 2	3 & 4	237-1234-ND	4.78	3.12	2.65	CMT908-H1
	4.00	5.20	.040	45.0µH			237-1235-ND	4.78	3.12	2.65	CMT908-H2
	8.00	3.20	.120	90.0µH			237-1236-ND	4.78	3.12	2.65	CMT908-H3
	16.00	2.60	.160	180.0µH			237-1237-ND	4.78	3.12	2.65	CMT908-H4

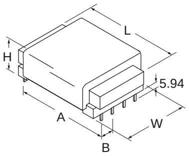
237-1219-ND (CME375-KIT) 9 piece kit - one of each E-Core Inductor Series CME375..**$55.56**
237-1238-ND (CMT908-KIT) 8 piece kit - one of each Encapsulated Toroidal Ind. Series CMT908..........................**$33.33**

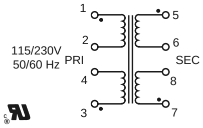
PARALLAX
POWER
COMPONENTS L.L.C.

Power Transformers

PC Mount - Pack Power Transformers

• Designed to meet the needs of low clearance PC board and solid state power designs. • Hi-Pot Test: 2,000 VRMS • Primary: 115/230V, 50/60 Hz • Class B UL Recognized, UL File E53148





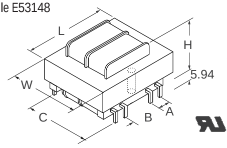
VA Size	Dimensions – Inch (mm) H	W	L	A	B	Wt. Oz. (Gram)
2.5	0.650 (16.51)	1.562 (39.67)	1.875 (47.63)	1.600 (40.64)	0.375 (9.52)	5 (141.75)
6.0	0.875 (22.23)	1.562 (39.67)	1.875 (47.63)	1.600 (40.64)	0.375 (9.52)	7 (198.44)
12.0	1.062 (26.97)	2.000 (50.80)	2.500 (63.50)	2.000 (50.80)	0.500 (12.70)	11 (311.84)

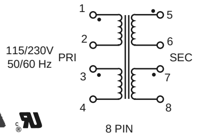
VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
2.5	5 @ 0.5	10 @ 0.25	237-1008-ND	10.76	7.13	6.23	FP10-250
	6.3@ 0.4	12.6 @ 0.2	237-1009-ND	10.76	7.13	6.23	FP12-200
	8 @ 0.3	16 @ 0.15	237-1010-ND	10.76	7.13	6.23	FP16-150
	10 @ 0.25	20 @ 0.125	237-1011-ND	10.76	7.13	6.23	FP20-125
	12 @ 0.2	24 @ 0.1	237-1012-ND	10.76	7.13	6.23	FP24-100
	15 @ 0.16	30@ 0.08	237-1013-ND	10.76	7.13	6.23	FP30-85
	17 @ 0.15	34 @ 0.075	237-1014-ND	10.76	7.13	6.23	FP34-75
	28 @ 0.09	56 @ 0.045	237-1015-ND	10.76	7.13	6.23	FP56-45
6.0	5 @ 1.2	10 @ 0.6	237-1016-ND	12.00	8.18	7.21	FP10-600
	6.3@ 0.95	12.6 @ 0.475	237-1017-ND	12.00	8.18	7.21	FP12-475
	8 @ 0.75	16 @ 0.375	237-1018-ND	12.00	8.18	7.21	FP16-375
	10 @ 0.6	20 @ 0.3	237-1019-ND	12.00	8.18	7.21	FP20-300
	12 @ 0.5	24 @ 0.25	237-1020-ND	12.00	8.18	7.21	FP24-250
	15 @ 0.4	30@ 0.2	237-1021-ND	12.00	8.18	7.21	FP30-200
	17 @ 0.34	34 @ 0.17	237-1022-ND	12.00	8.18	7.21	FP34-170
	28 @ 0.2	56 @ 0.1	237-1023-ND	12.00	8.18	7.21	FP56-100
12.0	5 @ 2.4	10 @ 1.2	237-1000-ND	14.00	8.75	7.51	FP10-1200
	6.3@ 1.9	12.6 @ 0.95	237-1001-ND	14.00	8.75	7.51	FP12-950
	8 @ 1.5	16 @ 0.75	237-1002-ND	14.00	8.75	7.51	FP16-750
	10 @ 1.2	20 @ 0.6	237-1003-ND	14.00	8.75	7.51	FP20-600
	12 @ 1.0	24 @ 0.5	237-1004-ND	14.00	8.75	7.51	FP24-500
	15 @ 0.8	30@ 0.4	237-1005-ND	14.00	8.75	7.51	FP30-400
	17 @ 0.68	34 @ 0.34	237-1006-ND	14.00	8.75	7.51	FP34-340
	28 @ 0.4	56 @ 0.2	237-1007-ND	14.00	8.75	7.51	FP56-200

*CT = Center Tap

PC Mount - Split Pack™ Power Transformers

• Split Pack split bobbin transformer for PC board applications. • Hi-Pot Test: 2,500 VRMS • Primary: 115/230V, 50/60 Hz • Class B UL Recognized, UL File E53148





VA Size	Dimensions – Inch (mm) H	W	L	A	B	C	Wt. Lbs. (Kg)
1.1	.9375 (23.81)	1.125 (28.58)	1.375 (34.93)	.250 (6.35)	.250 (6.35)	1.20 (30.48)	.17 (.08)
2.5	1.1875 (30.16)	1.125 (28.58)	1.375 (34.93)	.250 (6.35)	.250 (6.35)	1.20 (30.48)	.25 (.11)
6.0	1.3125 (33.34)	1.3125 (33.34)	1.625 (41.28)	.250 (6.35)	.350 (8.80)	1.280 (32.51)	.44 (.20)
12.0	1.4375 (36.51)	1.5625 (39.69)	1.875 (47.63)	.30 (7.62)	.40 (10.16)	1.410 (35.81)	.70 (.32)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
1.1	6.3 @ 0.18	12.6 @ 0.09	237-1024-ND	8.71	5.51	4.73	FS12-090
	8 @ 0.14	16 @ 0.07	237-1025-ND	8.71	5.51	4.73	FS16-070
	10 @ 0.11	20 @ 0.055	237-1026-ND	8.71	5.51	4.73	FS20-055
	12 @ 0.09	24 @ 0.045	237-1028-ND	8.71	5.51	4.73	FS24-045
	14 @ 0.08	28 @ 0.04	237-1029-ND	8.71	5.51	4.73	FS28-040
	18 @ 0.06	36 @ 0.03	237-1030-ND	8.71	5.51	4.73	FS36-030
2.5	5 @ 0.5	10 @ 0.25	237-1031-ND	9.00	5.63	4.83	FS10-250
	6.3@ 0.4	12.6 @ 0.2	237-1032-ND	9.00	5.63	4.83	FS12-200
	8 @ 0.3	16 @ 0.15	237-1033-ND	9.00	5.63	4.83	FS16-150
	10 @ 0.24	20 @ 0.12	237-1034-ND	9.00	5.63	4.83	FS20-120
	12 @ 0.2	24 @ 0.1	237-1035-ND	9.00	5.63	4.83	FS24-100
	14 @ 0.17	28@ 0.085	237-1036-ND	9.00	5.63	4.83	FS28-85
	18 @ 0.13	36 @ 0.065	237-1037-ND	9.00	5.63	4.83	FS36-65
6.0	5 @ 1.2	10 @ 0.6	237-1038-ND	9.60	6.08	5.22	FS10-600
	6.3@ 1.0	12.6 @ 0.5	237-1039-ND	9.60	6.08	5.22	FS12-500
	8 @ 0.8	16 @ 0.4	237-1040-ND	9.60	6.08	5.22	FS16-400
	10 @ 0.6	20 @ 0.3	237-1041-ND	9.60	6.08	5.22	FS20-300
	12 @ 0.5	24 @ 0.25	237-1042-ND	9.60	6.08	5.22	FS24-250
	14 @ 0.4	28 @ 0.2	237-1043-ND	9.60	6.08	5.22	FS28-200
	18 @ 0.34	36 @ 0.17	237-1044-ND	9.60	6.08	5.22	FS36-170
12.0	5 @ 2.4	10 @ 1.2	237-1045-ND	11.00	6.93	5.95	FS10-1200
	6.3 @ 2.0	12.6 @ 1.0	237-1046-ND	11.00	6.93	5.95	FS12-1000
	8.0 @ 1.6	16 @ 0.8	237-1047-ND	11.00	6.93	5.95	FS16-800
	10 @ 1.2	20 @ 0.6	237-1048-ND	11.00	6.93	5.95	FS20-600
	12 @ 1.0	24 @ 0.5	237-1050-ND	11.00	6.93	5.95	FS24-500
	14 @ 0.84	28 @ 0.42	237-1051-ND	11.00	6.93	5.95	FS28-420
	18 @ 0.7	36 @ 0.35	237-1052-ND	11.00	6.93	5.95	FS36-350

*CT = Center Tap

Switchmode / High Frequency Inductors

Rod Core Inductors

DESCRIPTION:

TRIAD high current rod core inductors provide cost effective energy storage. By conditioning the output signal, the inductor smoothes out the current waveform to provide a more stable current. These low cost inductors are designed to be compatible with automated P.C.B. installation.

Fig. 1

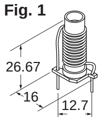


Fig. 2

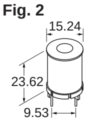
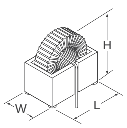


Fig.	± 15% Induct. µH	DC Rated Current	Max. DC Resist. (mOhms)	Lead Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
				High Current Rod Core Inductors					
1	2.54	11.60A	5.50	.050 (1.27)	237-1158-ND	2.44	1.60	1.36	FIRCH-1
	3.05	9.70A	7.30	.045 (1.14)	237-1159-ND	2.44	1.60	1.36	FIRCH-2
	3.60	8.10A	9.95	.040 (1.02)	237-1160-ND	2.44	1.60	1.36	FIRCH-3
	5.00	6.80A	14.10	.036 (.91)	237-1161-ND	2.44	1.60	1.36	FIRCH-4
	5.90	5.70A	18.50	.032 (.81)	237-1162-ND	2.44	1.60	1.36	FIRCH-5
	7.22	4.80A	26.10	.028 (.71)	237-1163-ND	2.44	1.60	1.36	FIRCH-6

Fig.	10% Induct.	DC Rated Current	± 15% DC Resist. (Ohms)	Lead Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
				Rod Core Inductors					
2	5.6mH	.250A	6.100	.032 (.81)	237-1165-ND	2.71	1.77	1.51	RC-1
	3.9mH	.320A	3.900		237-1166-ND	2.71	1.77	1.51	RC-2
	2.5mH	.400A	2.450		237-1167-ND	2.71	1.77	1.51	RC-3
	1.5mH	.500A	1.530		237-1168-ND	2.71	1.77	1.51	RC-4
	915.0µH	.625A	1.000		237-1169-ND	2.71	1.77	1.51	RC-5
	560.0µH	.800A	.600		237-1170-ND	2.71	1.77	1.51	RC-6
	450.0µH	1.000A	.420		237-1171-ND	2.71	1.77	1.51	RC-7
	250.0µH	1.250A	.210		237-1172-ND	2.71	1.77	1.51	RC-8
	200.0µH	1.600A	.180		237-1173-ND	2.71	1.77	1.51	RC-9
	100.0µH	2.000A	.098		237-1175-ND	2.71	1.77	1.51	RC-10
	75.0µH	2.500A	.070		237-1176-ND	2.71	1.77	1.51	RC-11

237-1164-ND (FIRCH-KIT) 6 piece kit - one of each High Current Rod Core Inductors **$11.11**
237-1177-ND (RC-KIT) 11 piece kit - one of each Rod Core Inductor **$27.78**

Toroidal Inductors



DESCRIPTION: TRIAD toroidal inductors condition the output signal by leveling out the current waveform providing a more stable current supply.

TECHNICAL NOTES: • Nominal inductance values are typically 10% higher than minimum rating. • Biased inductance measured at rated DC amps.

Min. Induct. (µH) No Bias	At Bias	Rated DC Amps	Max. DCR (mOhm)	Dims. - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
18.85	12.72	2.8	44.8	.625 x .350 x .700 (15.88 x 8.89 x 17.78)	237-1178-ND	1.96	1.28	1.09	FIT44-1
14.75	9.82	3.4	30.7		237-1179-ND	1.96	1.28	1.09	FIT44-2
12.30	7.75	4.0	23.4		237-1180-ND	1.96	1.28	1.09	FIT44-3
8.06	5.22	4.8	15.9		237-1181-ND	1.96	1.28	1.09	FIT44-4
47.40	29.00	2.8	78.9	.700 x .475 x .750 (17.78 x 12.06 x 19.05)	237-1182-ND	2.31	1.51	1.28	FIT50-1
35.48	23.77	3.4	57.8		237-1183-ND	2.31	1.51	1.28	FIT50-2
27.16	16.13	4.0	40.1		237-1184-ND	2.31	1.51	1.28	FIT50-3
21.65	12.27	4.8	29.2		237-1185-ND	2.31	1.51	1.28	FIT50-4
16.76	9.50	5.7	20.0		237-1186-ND	2.31	1.51	1.28	FIT50-5
12.50	6.75	6.8	14.0		237-1187-ND	2.31	1.51	1.28	FIT50-6
8.86	4.80	8.1	11.0		237-1188-ND	2.31	1.51	1.28	FIT50-7
89.50	57.99	2.8	108.0	.875 x .475 x .950 (22.23 x 12.06 x 24.13)	237-1189-ND	2.80	1.83	1.55	FIT68-1
71.10	41.59	3.4	86.1		237-1190-ND	2.80	1.83	1.55	FIT68-2
54.81	33.05	4.0	59.9		237-1191-ND	2.80	1.83	1.55	FIT68-3
43.30	26.63	4.8	42.4		237-1192-ND	2.80	1.83	1.55	FIT68-4
33.15	18.79	5.7	28.8		237-1193-ND	2.80	1.83	1.55	FIT68-5
24.31	13.56	6.8	20.2		237-1194-ND	2.80	1.83	1.55	FIT68-6
18.64	10.23	8.1	14.8		237-1195-ND	2.80	1.83	1.55	FIT68-7
128.00	74.04	4.0	95.2	.975 x .625 x 1.100 (24.77 x 15.88 x 27.94)	237-1196-ND	3.47	2.27	1.92	FIT80-1
107.50	58.05	4.8	67.9		237-1197-ND	3.47	2.27	1.92	FIT80-2
80.75	42.00	5.7	44.8		237-1198-ND	3.47	2.27	1.92	FIT80-3
65.04	31.60	6.8	32.8		237-1199-ND	3.47	2.27	1.92	FIT80-4
47.70	22.79	8.1	22.5		237-1200-ND	3.47	2.27	1.92	FIT80-5
38.07	18.11	9.7	17.0		237-1201-ND	3.47	2.27	1.92	FIT80-6
253.00	153.00	4.0	139.0	1.300 x .725 x 1.400 (33.02 x 18.42 x 35.56)	237-1202-ND	4.31	2.82	2.39	FIT106-1
197.00	113.00	4.8	106.0		237-1203-ND	4.31	2.82	2.39	FIT106-2
154.00	84.00	5.7	74.0		237-1205-ND	4.31	2.82	2.39	FIT106-3
116.00	61.90	6.8	48.5		237-1206-ND	4.31	2.82	2.39	FIT106-4
93.00	48.00	8.1	39.1		237-1207-ND	4.31	2.82	2.39	FIT106-5
70.05	35.30	9.7	24.0		237-1208-ND	4.31	2.82	2.39	FIT106-6

237-1209-ND (FIT-KIT) 30 piece kit - one of each Toroidal Inductor **$83.33**

Transformers and Inductors

Fig. 1

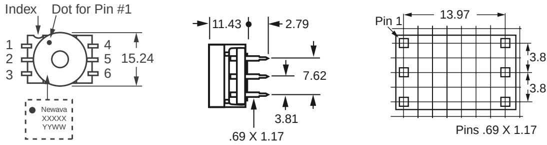


Fig. 2

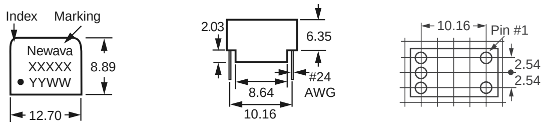


Fig. 3

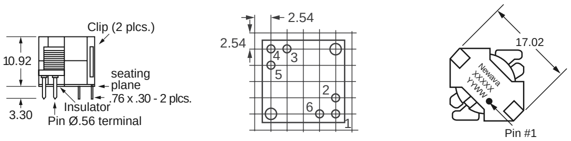


Fig. 4

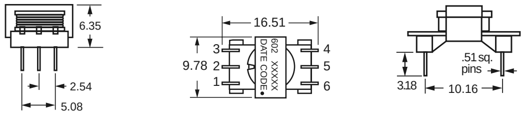
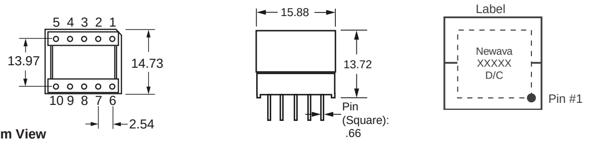
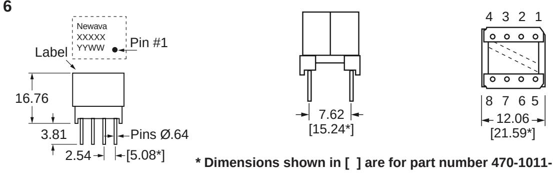


Fig. 5



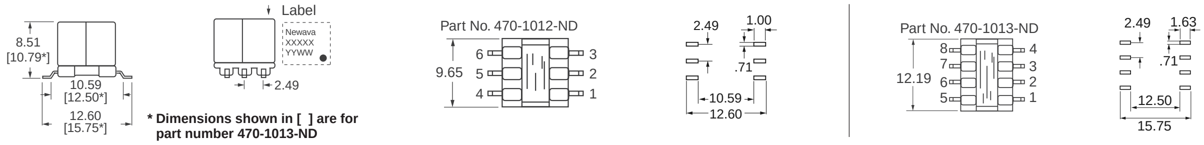
Bottom View

Fig. 6



*** Dimensions shown in [ ] are for part number 470-1011-ND**

Fig. 7



*** Dimensions shown in [ ] are for part number 470-1013-ND**

Fig. 8

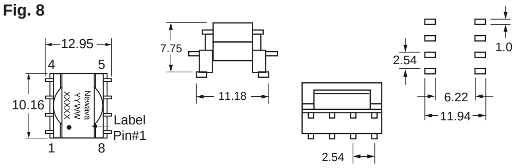


Fig. 9

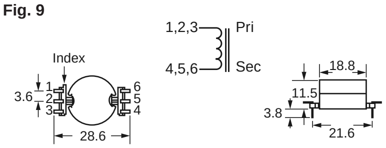


Fig. 10

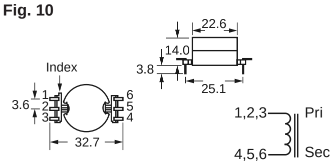


Fig. 11

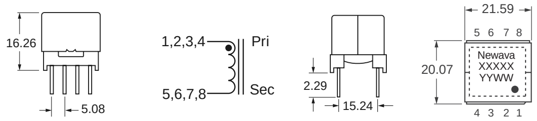
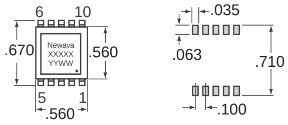


Fig. 12



Mechanicals:
0.500" Max. Height
0.560" Max. Width of Body
0.560" Max. Length of Body

Coplanarity of ± 0.004"
across all Leads
All pins may not be used.

Fig.	Description (applications and notes)	Inductance	Schematic Information						Digi-Key Part No.	Price Each					Newava Part No.
			Primary			Secondary									
			Start	CTap	Finish	Start	CTap	Finish		1	10	50	100	500	
1	Transformer for Maxim 250/251; 5V to 5V @ 50ma	2.5mH	1	—	3	4	—	6	470-1001-ND	9.88	6.80	3.83	3.34	2.97	S22601
2	Transformer for Maxim 250/251; For RS232 Isolation	2mH	1	2	3	4	5	6	470-1002-ND	8.80	6.05	3.41	2.97	2.64	S22100
	Isolation for Digital Audio; Crystal CS8401/2/11/12	225µH	1	—	2	3	—	4	470-1003-ND	8.80	6.05	3.41	2.97	2.64	S22083
3	Transformer for EXAR T1 Receive	8.44mH	6	1	2	3	4	5	470-1015-ND	11.92	8.20	4.62	4.03	3.58	S10951
4	Isolation for Digital Audio: Crystal CS8401/1/11/12	225µH	1	—	3	4	—	6	470-1004-ND	7.96	5.48	3.09	2.69	2.39	S22160
	Transformer for Maxim 250/251; RS232 Isolation	2mH	3	2	1	6	5	4	470-1005-ND	7.96	5.48	3.09	2.69	2.39	S22230
	Isolation for Digital Audio, Shielded, Crystal CS8401/2/11/12	225µH	1	—	3	4	—	6	470-1006-ND	8.76	6.03	3.40	2.96	2.63	S22133
	Digital Audio, Shielded, 70-110 ohm, Crystal 8401, 8402, 8411 and 8412	225µH	1	—	3	4	—	6	470-1007-ND	8.76	6.03	3.40	2.96	2.63	S22523
5	Inductor, 3.6A	33µH	1-5	—	6-10	—	—	—	470-1009-ND	9.56	6.58	3.71	3.23	2.87	S34568
6	Inductor DCR 0.15 ohms, 0.63A	150µH	1-4	—	5-8	—	—	—	470-1010-ND	8.80	6.05	3.41	2.97	2.64	S34547
	Inductor DCR 0.04 ohms, 3.7A	47µH	1-4	—	5-8	—	—	—	470-1011-ND	9.44	6.49	3.66	3.19	2.84	S34567
7	Inductor DCR 0.300 ohms SMD, 0.45A	150µH	1	—	6	—	—	—	470-1012-ND	8.84	6.08	3.43	2.99	2.66	S34582
	Inductor DCR 0.150 ohms SMD, 0.63A	150µH	1-4	—	5-8	—	—	—	470-1013-ND	9.20	6.33	3.57	3.11	2.76	S34591
8	Digital Audio, SMD;Transformer	225µH	1	—	4	5	—	8	470-1000-ND	11.56	7.95	4.48	3.91	3.47	S37211
9	1A Inductor, Buck for LM257x	330µH	1	—	3	4	—	6	470-1018-ND	10.96	7.54	4.25	3.70	3.29	S34042
10	3A Inductor, Buck for LM257x	150µH	1	—	3	4	—	6	470-1008-ND	11.16	7.68	4.33	3.77	3.35	S34045
	0.9A Inductor, Buck for LM257x	1000µH	1	—	3	4	—	6	470-1014-ND	11.16	7.68	4.33	3.77	3.35	S34050
11	3.25A Inductor, for LM259x	68µH	1	—	4	5	—	8	470-1017-ND	9.44	6.49	3.66	3.19	2.84	S34566
12	2.25A Inductor, SMT for	47µH	6	1	2	3	4	5	470-1016-ND	9.16	6.30	3.55	3.10	2.75	S34603
	1.5A Inductor, SMT for	100µH	1-5	—	6-10	—	—	—	470-1019-ND	9.16	6.30	3.55	3.10	2.75	S34601

BIAS

Modular Standby Power Supplies

Fig. 1

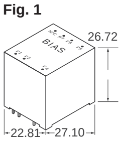
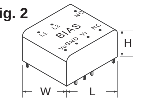
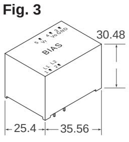


Fig. 2



Style	W	L	H
BPS100	23.62	33.53	12.19
BPS200	31.12	36.58	14.73

Fig. 3



The BIAS Power Supply is an off-line AC/DC switching power converter module with an isolated DC output. By using patented, cost-effective, line-synchronous switching technology, conducted EMI is virtually eliminated (no external EMI filter components required) while still maintaining a high level of efficiency. It is designed to comply with Global One Watt Standards, a standard that is being implemented in consumer, commercial and industrial products. Even the President of the United States of America has given an executive order asking for more energy efficient standby power solutions, BIAS standby power converters will meet those needs. **Features:** • Plug In Module • Universal Input Voltages • Isolated (3000 VAC) DC Outputs • Short Circuit Protected • Meets Global One Watt Plan • Designed to Comply with Global Regulatory Agency Standards. **Output Operating Specifications:** Tested at 25°C and 120VAC/60Hz Input, unless otherwise noted.

Fig.	Power Output (Watts Max.)	Voltage Output Vo (V)	Voltage Output Vr (V Regulated)	Current Rating Max. ✱ Vo (A)	Current Rating Max. ✱ Vr (A Regulated)	Digi-Key Part No.	Price Each 1	10	25	50	BIAS Part No.
Constant Power Modules (BPS-070-025, 050 Series)											
1	.250	3-16	—	.016 - .083	—	440-1000-ND	8.25	7.02	5.23	4.68	BPS-070-025
	.500	3-16	—	.031 - .167	—	440-1001-ND	8.85	7.53	5.61	5.02	BPS-070-050
Standby Power Modules (BPS100, 200 Series)											
2	1	5-14	—	.083	—	440-1015-ND *NEW!*	10.62	9.03	6.73	6.02	BPS100A1400
	1	7-14	5.0	.083	.025	440-1016-ND *NEW!*	11.79	10.02	7.47	6.68	BPS100B1450
	2	5-14	—	.167	—	440-1017-ND *NEW!*	11.79	10.02	7.47	6.68	BPS200A1400
	2	7-14	5.0	.167	.025	440-1018-ND *NEW!*	13.28	11.29	8.41	7.53	BPS200B1450
Industrial Power Modules (BPI Series)											
3	2	5	—	.400	—	440-1006-ND	22.13	18.81	14.02	12.54	BPI200-05-00-H
	2	12	—	.167	—	440-1007-ND	22.13	18.81	14.02	12.54	BPI200-12-00-H
	2	12	5.0	.167	.025	440-1008-ND	22.13	18.81	14.02	12.54	BPI200-12-50-H
	3	5	—	.600	—	440-1009-ND	24.18	20.56	15.32	13.71	BPI300-05-00-H
	3	12	—	.250	—	440-1010-ND	24.18	20.56	15.32	13.71	BPI300-12-00-H
	4	5	—	.800	—	440-1012-ND	25.06	21.31	15.88	14.21	BPI400-05-00-H
	4	12	—	.333	—	440-1013-ND	25.06	21.31	15.88	14.21	BPI400-12-00-H
	4	12	5.0	.333	.025	440-1014-ND	25.06	21.31	15.88	14.21	BPI400-12-50-H

✱ Current ratings shown are at their maximum values, if multiple outputs are used on the same part, do not exceed the total combined Power Output (Watts Max.)

Series:	BPS-070-025, 050 *(Note F)*	BPS100, 200	BPI
Input Voltage Range	85 to 265 VAC	85 to 308 VAC *(Note G)*	85-308VAC or 120-380VDC (BPI400 =85-265VAC or 120-430VDC) *(Note D)*
Input Frequency Range	47 to 63 Hz	48 to 63 Hz	48 to 63 Hz
Efficiency Range	50% Min.	65% Nom.	70% Typ.
Output Voltage Range	Vo = 3-16 VDC (ADJ) *(Note A)*	Vo = 5 - 14VDC (ADJ) and Vr: 5VDC	Vo = 5 or 12VDC and Vr: 5.0VDC
Output Voltage Regulation	N/A	Vo = ± 5%, Vr = ± 0.1%	Vo = ± 5%, Vr = ± 5%
Output Short Circuit Duration	Continuous	Continuous	Continuous
Operating Temp. - Standard	0°C to +70°C *(Note E)*	0°C to +70°C	-40°C to +85°C
Safety Compliance	UL1950, EN60950 (VDE) EN5501/FCC Part 15-B *(Note C)*, IEC 1000-4-4, Level 4 *(Note B,C)*	UL1950, EN60950 (VDE), EN55011/FCC Part 15-B *(Note C),* IEC 1000-4-4, Level 4 *(Note B,C)*	UL1950, EN60950 (VDE), EN55011/FCC Part 15-B *(Note C)*, IEC 1000-4-4, Level 4 *(Note B,C)*

(Note A): Care must be taken, under minimum load conditions, that the output voltage does not exceed 16VDC. For the load varying applications, a Zener Diode (connected across output pins 5 and 6) is recommended. See application note on "Over Voltage Protection"

(Note B): Unit tested to Level 4 utilizing external TVS device.

(Note C): Compliance Testing Pending

(Note D): External (2 Amp 250VAC) Fuse Required

(Note E): Operating temperature range may be extended from -20°C to +70°C by including a high voltage, low ESR capacitor (connected across pins 1 and 2).

(Note F): Fig.1 no connection for pin 7 (P7).

(Note G): 0°C to +50°C = 85-308VAC Input
0°C to +70°C = 85-265VAC Input

TEXAS INSTRUMENTS

Isolated DC-DC Converters

Fig. 1 Package Style EG(x)

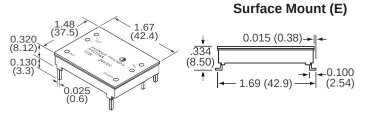


Fig. 2 Package Style EK(x) (26 Pin SIP)

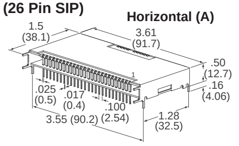


Fig. 3 Package Style EN(x) (19 Pin SIP)

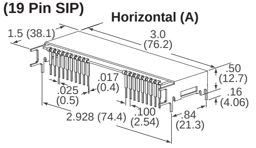


Fig. 4 Package Style EP(x) (10 Pin SIP)

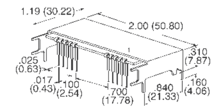
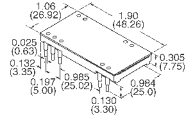


Fig. 5 Package Style EG(x) (9 Pin)



These isolated DC-DC converters are state-of-the-art in board-mounted converters, employing high frequency technology with surface mount construction to form high efficiency with un-paralleled flexibility. They are designed for Telecom, Industrial, Computer, Medical, and other distributed power applications that require input-to-output isolation. Very few external components required and in some cases no external components required to make these converters perform, this makes design-in a snap even while saving valuable board space using TI/Plug In Power Solutions patent pending package designs.

Safety Agency Approvals: • **PT4120/4140 Series:** UL1950 Recognized, CSA 22.2 950 Certified, EN60950 Approved • **PT4240 Series:** UL 60950, CSA 22.2 60950 • **PT4310 Series:** Safety Approvals Pending • **PT4470 Series:** UL 60950, CSA 22.2 950, VDE EN60950(Pending) • **PT4580 Series:** UL 60950 Recognized, CSA 22.2 950 Certified, EN60950 Approved, VDE Licensed, meets FCC Class A Radiated Limits • **PT4660/4680 Series:** Safety Approvals Pending (UL 1950, CSA 22.2 950) • **PT4840 Series:** UL 60950, CSA 22.2 950, VDE EN60950 • **PT4850 Series:** Safety Approvals Pending (UL60950, CSA 22.2 950, VDE EN60950)

Part No. Series	Voltage Adjust	Remote On/Off	Over-Current Limit	Over-Temp Protection	Under-voltage Lockout	Short-Circuit Protection	Over-Voltage Protection
PT4120/4140 Series	X	X	—	X	X	X	—
PT4240 Series	X	X	X	—	X	X	—
PT4310 Series	X	X	—	—	—	—	—
PT4470 Series	X	X	X	X	—	—	X

Part No. Series	Voltage Adjust	Remote On/Off	Over-Current Limit	Over-Temp Protection	Under-voltage Lockout	Short-Circuit Protection	Over-Voltage Protection
PT4580 Series	X	X	X	X	X	X	—
PT4660/4680 Series	X	X	X	X	X	—	X
PT4840 Series	X	X	X	X	X	X	—
PT4850 Series	X	X	X	X	X	—	X

Fig.	Package Style	DC Vout Vo 1	DC Vout Vo 2	DC Vout Vo 3	Max. Amp Output (Iout)	Min. Amp Output (Iout)	DC Input Bus Voltage Vin	DC Input Voltage Range (Vin)	Circuit Board Orientation	Operating Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	100
NEW! Variable Output DC-DC Converters NEW!														
2	EKA	1.3 to 3.5 (c)	—	—	30.00 (e)	0.00	24	18 to 36	Horz.	-40 to +115 (b)	PT4472A-ND	131.04	122.31	113.57
2	EKA	4.6 to 5.7 (c)	—	—	20.00 (e)	0.00	24	18 to 36	Horz.	-40 to +115 (b)	PT4474A-ND	131.04	122.31	113.57
2	EKA	6.5 to 17.5 (c)	—	—	8.5 (i)	0.00	24	18 to 36	Horz.	-40 to +100 (b)	PT4476A-ND	131.04	122.31	113.57
Single Output DC-DC Converters														
1	EGD	3.3 (c)	—	—	5.00 (f)	0.00	24	18 to 40	Horz.	-40 to +85 (b)	PT4141A-ND	46.23	43.15	40.07
1	EGD	3.3 (c)	—	—	5.00 (f)	0.00	24	18 to 40	Horz. SMD	-40 to +85 (b)	PT4141C-ND	46.23	43.15	40.07
1	EGE	3.3 (c)	—	—	5.00 (f)	0.00	48	36 to 75	Horz.	-40 to +85 (b)	PT4121A-ND	46.23	43.15	40.07
1	EGE	3.3 (c)	—	—	5.00 (f)	0.00	48	36 to 75	Horz. SMD	-40 to +85 (b)	PT4121C-ND	46.23	43.15	40.07
4	EPF	5.0 (c)	—	—	2.00	.10(h)	24	18 to 36	Horz.	-40 to + 85 (a)	PT4243A-ND *NEW!*	38.28	35.73	33.18
1	EGD	5.0 (c)	—	—	4.00	0.00	24	18 to 40	Horz.	-40 to +85 (b)	PT4142A-ND	46.23	43.15	40.07
1	EGD	5.0 (c)	—	—	4.00	0.00	24	18 to 40	Horz. SMD	-40 to +85 (b)	PT4142C-ND	46.23	43.15	40.07
1	EGE	5.0 (c)	—	—	4.00	0.00	48	36 to 75	Horz.	-40 to +85 (b)	PT4122A-ND	46.23	43.15	40.07
1	EGE	5.0 (c)	—	—	4.00	0.00	48	36 to 75	Horz. SMD	-40 to +85 (b)	PT4122C-ND	46.23	43.15	40.07
3	ENA	5.0 (c)	—	—	6.00	.25(h)	24	18 to 60	Horz.	-40 to +85 (b)	PT4582A-ND *NEW!*	54.89	51.23	47.57
1	EGD	12.0 (c)	—	—	1.60	0.00	24	18 to 40	Horz.	-40 to +85 (b)	PT4143A-ND	46.23	43.15	40.07
1	EGD	12.0 (c)	—	—	1.60	0.00	24	18 to 40	Horz. SMD	-40 to +85 (b)	PT4143C-ND	46.23	43.15	40.07
1	EGE	12.0 (c)	—	—	1.60	0.00	48	36 to 75	Horz.	-40 to +85 (b)	PT4123A-ND	46.23	43.15	40.07
1	EGE	12.0 (c)	—	—	1.60	0.00	48	36 to 75	Horz. SMD	-40 to +85 (b)	PT4123C-ND	46.23	43.15	40.07
3	ENA	12.0 (c)	—	—	2.50	.10(h)	24	19 to 60	Horz.	-40 to +85 (b)	PT4583A-ND *NEW!*	54.89	51.23	47.57
NEW! Dual Output DC-DC Converters NEW!														
2	EKA	5.0 (c)	3.3	—	15.00	0.0	24	18 to 36	Horz.	-40 to +85 (b)	PT4681A-ND	141.35	131.93	122.50
2	EKA	5.0 (c)	3.3	—	15.00	0.0	48	36 to 75	Horz.	-40 to +85 (b)	PT4661A-ND	141.35	131.93	122.50
5	EGK	+5.0 (c)	-5.0	—	1.00	.20(h)	48	38 to 75	Horz.	-40 to +85 (a)	PT4311A-ND	26.72	24.94	23.16
5	EGK	+12 (c)	-12	—	0.45	.05(h)	48	38 to 75	Horz.	-40 to +85 (a)	PT4313A-ND	26.72	24.94	23.16
NEW! Triple Output DC-DC Converters NEW!														
2	EKA	+3.3 (c)	+2.5	+1.5	25.00	0.00	48	36 to 75	Horz.	-40 to +85 (b)	PT4851A-ND	116.58	108.81	101.04
2	EKA	+12 (c)	+3.3	+1.8	13.7(i)	0.00	48	36 to 75	Horz.	-40 to +85 (b)	PT4842A-ND	116.58	108.81	101.04
2	EKA	+15 (c)	+3.3	+ 1.5	13.7(i)	0.00	48	36 to 75	Horz.	-40 to +85 (b)	PT4841A-ND	116.58	108.81	101.04

(a) Operating temperatures below 0 (0°C), use tantalum capacitors **(b)** See safe operating area curves for appropriate derating **(c)** Carries standards and safety approvals – see manufacturer's data sheet **(d)** An electrolytic or tantalum capacitor is required for proper operation **(e)** This series can be paralleled with a current booster slave to increase output currents in specific increments – see manufacturer's data sheet **(f)** The maximum output current reduces the output power to less than 20W (PT4121, PT4141 =16.5W **(g)** For normal operation, pin 3 (Inhibit) must be connected to -Vin **(h)** DC/DC converter will operate at no load with reduced specifications **(i)** The total of all ouput(s) is not to exceed the amperage rating shown - see manufactures data shee for detailed ratings

TEXAS INSTRUMENTS Integrated Switching Regulators

Texas Instruments manufactures the industry's smallest, most efficient and easy to use Integrated Switching Regulators (ISRs). Using a unique, proprietary design which employs 1 MHz switching technology to produce state-of-the-art power densities, these ISRs let you select the product performance that exactly matches your application. **Features:** • Easy to use – just plug them in. In most cases, only one external component is required, if any • Output voltages are laser-trimmed for accuracy • High efficiencies and low component counts combine to yield MTBFs in excess of 1,000,000 hours

Additional drawings on the following pages.

Fig. 1 Package Style EA(x)

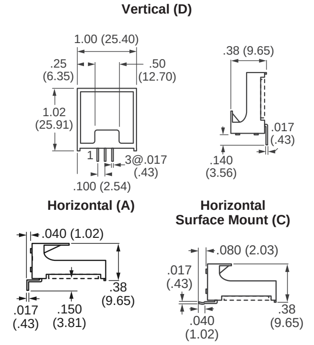


Fig. 2 Package Style EB(x) (12 Pin SIP)

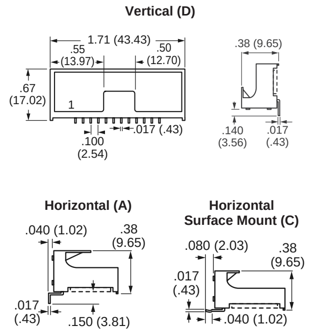


Fig. 3 Package Style EC(x) (12 Pin SIP) / ED(x) (14 Pin SIP)

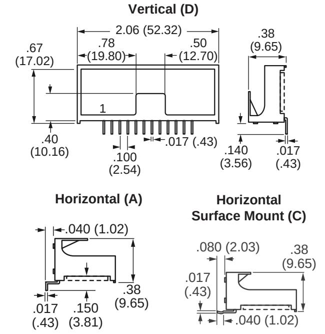


Fig. 4 Package Style EE(x) (14 Pin SIP)

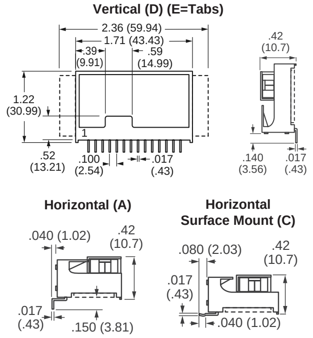


Fig.	Pkg. Style	DC Voltage Output (Vout)	Max. Amp Output (Iout)	Min. Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Orientation	External Components Required*	Over-Temp Protection	Short Circuit Protection	Vout Adj.	On/Off Control†	Remote Sense	Fast Transient Response	Recommended Operating Temp. Range (°C)	Digi-Key Part No.	Price Each		
																1	25	100
Variable Output ISR's																		
8	ELA	1.3 to 3.5 (s)	13.00	.10 (a)	4.5 to 5.5	Horz.	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) to +85 (e)	PT6701A-ND	30.17	28.16	26.15
8	ELC	1.3 to 3.5 (s)	13.00	.10 (a)	4.5 to 5.5	Horz. SMD	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) to +85 (e)	PT6701C-ND	30.17	28.16	26.15
8	ELD	1.3 to 3.5 (s)	13.00	.10 (a)	4.5 to 5.5	Vert.	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) to +85 (e)	PT6701N-ND	30.17	28.16	26.15
8	ELA	1.3 to 3.5 (s)	14.00	.10 (a)	10.8 to 13.2	Horz.	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) to +85 (e)	PT6721A-ND	30.17	28.16	26.15
8	ELC	1.3 to 3.5 (s)	14.00	.10 (a)	10.8 to 13.2	Horz. SMD	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) to +85 (e)	PT6721C-ND	30.17	28.16	26.15
8	ELD	1.3 to 3.5 (s)	14.00	.10 (a)	10.8 to 13.2	Vert.	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) to +85 (e)	PT6721N-ND	30.17	28.16	26.15
10	ENF	1.3 to 3.5	20.00 (l)	.10 (a)	4.5 to 5.5	Horz.	1500µF/IN, 330µF/OUT	—	X	X (t)	Stnby	X (r)	—	-40 to +85 (d,e)	PT7711A-ND	45.62	42.58	39.54
10	ENG	1.3 to 3.5	20.00 (l)	.10 (a)	4.5 to 5.5	Horz. SMD	1500µF/IN, 330µF/OUT	—	X	X (t)	Stnby	X (r)	—	-40 to +85 (d,e)	PT7711C-ND	45.62	42.58	39.54
10	ENE	1.3 to 3.5	20.00 (l)	.10 (a)	4.5 to 5.5	Vert.	1500µF/IN, 330µF/OUT	—	X	X (t)	Stnby	X (r)	—	-40 to +85 (d,e)	PT7711N-ND	45.62	42.58	39.54
11	ERA	1.3 to 3.5 (t)	30.00 (l)	.10 (a)	4.5 to 5.5	Horz.	2000uF/IN, 10k/Pwr Good	X	X	X (t)	Stnby	X	—	-40 to +85 (d,e)	PT8001A-ND *NEW!*	146.51	136.74	126.98
12	EKF	1.3 to 3.5 (t)	30.00	.10 (a)	10.8 to 13.2	Horz.	1500uF/IN, 660 or 1200uF/OUT (p)	X	X	X (t)	Stnby	X	X	-40 to +85 (d,e)	PT8121A-ND *NEW!*	68.03	63.49	58.96
12	EKF	4.5 to 7.6 (t)	28.00	.10 (a)	10.8 to 13.2	Horz.	1500uF/IN, 660 or 1200uF/OUT (p)	X	X	X (t)	Stnby	X	X	-40 to +85 (d,e)	PT8125A-ND *NEW!*	68.03	63.49	58.96
13	EJF	6.6 to 12.8	15.00 (l)	0.10 (a)	20 to 28	Horz.	560uF/IN, 2000uF/OUT	—	—	X	Stnby	X	—	0 to +85 (d)	PT7756A-ND *NEW!*	56.45	52.69	48.92
Single Output ISR's																		
6	EFL	1.2	3.00	0.10 (a)	3.1 to 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 to +85 (d,e)	PT5506A-ND *NEW!*	15.38	14.35	13.33
	EFL	1.2	5.50-6.00 (m)	0.0	3.1 to 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 to +85 (d)	PT5406A-ND *NEW!*	16.85	15.73	14.60
	EFL	1.5	3.00	0.10 (a)	3.1 to 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 to +85 (d,e)	PT5505A-ND *NEW!*	15.38	14.35	13.33
	EFL	1.5	5.50-6.00 (m)	0.0	3.1 to 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 to +85 (d)	PT5405A-ND *NEW!*	16.85	15.73	14.60
	EFL	1.8	3.00	0.10 (a)	3.1 to 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 to +85 (d,e)	PT5504A-ND *NEW!*	15.38	14.35	13.33
6	EFL	1.8	5.50-6.00 (m)	0.0	3.1 to 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 to +85 (d)	PT5404A-ND *NEW!*	16.85	15.73	14.60
6	EFL	2.0	3.00	0.10 (a)	3.1 to 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 to +85 (d,e)	PT5503A-ND *NEW!*	15.38	14.35	13.33
6	EFL	2.5	3.00	0.10 (a)	3.1 to 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 to +85 (d,e)	PT5502A-ND *NEW!*	15.38	14.35	13.33
6	EFL	2.5	5.50-6.00 (m)	0.0	4.5 to 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 to +85 (d)	PT5402A-ND *NEW!*	16.85	15.73	14.60
1	EAA	3.3	1.00	.10 (a)	9 to 26	Horz.	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5103A-ND	11.58	10.43	9.25
1	EAC	3.3	1.00	.10 (a)	9 to 26	Horz. SMD	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5103C-ND	11.58	10.43	9.25
1	EAD	3.3	1.00	.10 (a)	9 to 26	Vert.	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5103N-ND	11.58	10.43	9.25
2	EBA	3.3 (f)	1.00	.10 (a)	9 to 26	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6102A-ND	11.93	10.74	9.53
2	EBC	3.3 (f)	1.00	.10 (a)	9 to 26	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6102C-ND	11.93	10.74	9.53
2	EBD	3.3 (f)	1.00	.10 (a)	9 to 26	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6102N-ND	11.93	10.74	9.53
5	EFA	3.3	1.50	.10 (a)	7 to 26	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	78ST133HC-ND	15.38	14.35	13.33
	EFC	3.3	1.50	.10 (a)	7 to 26	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	78ST133SC-ND	15.38	14.35	13.33
	EFD	3.3	1.50	.10 (a)	7 to 26	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	78ST133VC-ND	15.38	14.35	13.33
	EFA	3.3	1.50	.10 (a)	9 to 26	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST133H-ND	14.46	13.02	11.55
	EFC	3.3	1.50	.10 (a)	9 to 26	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST133S-ND	14.46	13.02	11.55
5	EFD	3.3	1.50	.10 (a)	9 to 26	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST133V-ND	13.66	12.30	10.91
	EFA	3.3	2.00	.10 (a)	7 to 15	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78HT233HC-ND	18.41	17.18	15.96
	EFC	3.3	2.00	.10 (a)	7 to 15	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78HT233SC-ND	18.41	17.18	15.96
	EFD	3.3	2.00	.10 (a)	7 to 15	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78HT233VC-ND	18.41	17.18	15.96
	EFA	3.3	2.00	.10 (a)	7 to 15	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78ST233HC-ND	18.41	17.18	15.96
5	EFC	3.3	2.00	.10 (a)	7 to 15	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78ST233SC-ND	18.41	17.18	15.96
5	EFD	3.3	2.00	.10 (a)	7 to 15	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78ST233VC-ND	18.41	17.18	15.96
2	EBA	3.3	2.00	.10 (a)	7 to 26	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6203A-ND	15.06	14.06	13.06
2	EBC	3.3	2.00	.10 (a)	7 to 26	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6203C-ND	15.06	14.06	13.06
2	EBD	3.3	2.00	.10 (a)	7 to 26	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6203N-ND	15.06	14.06	13.06
5	EFA	3.3	2.00	.10 (a)	9 to 15	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	PT78HT233H-ND	15.38	14.35	13.33
5	EFC	3.3	2.00	.10 (a)	9 to 15	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	PT78HT233S-ND	15.38	14.35	13.33
5	EFD	3.3	2.00	.10 (a)	9 to 15	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	PT78HT233V-ND	15.38	14.35	13.33
2	EBA	3.3	2.00	.10 (a)	9 to 26	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6213D-ND	15.06	14.06	13.06
2	EBC	3.3	2.00	.10 (a)	9 to 26	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6213E-ND	15.06	14.06	13.06
2	EBD	3.3	2.00	.10 (a)	9 to 26	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6213P-ND	15.06	14.06	13.06
3	EDA	3.3	3.00	0.0	4.5 to 5.5	Horz.	2/100µF (n)	X	—	X	—	X	—	0 to +70 (b)	PT6425D-ND	20.88	19.49	18.10
3	EDC	3.3	3.00	0.0	4.5 to 5.5	Horz. SMD	2/100µF (n)	X	—	X	—	X	—	0 to +70 (b)	PT6425E-ND	20.88	19.49	18.10
3	EDD	3.3	3.00	0.0	4.5 to 5.5	Vert.	2/100µF (n)	X	—	X	—	X	—	0 to +70 (b)	PT6425P-ND	20.88	19.49	18.10
3	ECA	3.3	3.00	.10 (a)	4.5 to 5.5	Horz.	2/100µF (n)	X	—	X	—	—	—	0 to +70 (b)	PT6405D-ND	19.94	18.61	17.28

* Power Good: Power good output is high when the output voltage is within specification

† Inhibit: Power to complete part is shut off, quiescent current is less than 100 µA. Stnby: Standby Mode: Part is powered up, but output is in shut off or sleep mode.

(Continued)

Additional drawings on the previous and following pages.

Fig. 5 Package Style EF(x)

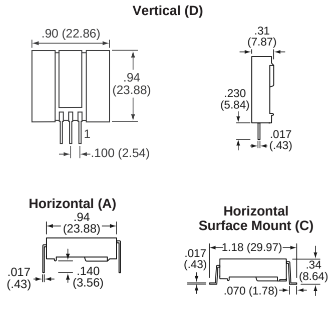


Fig. 6 Package Style EF(x) (5 Pin SIP)

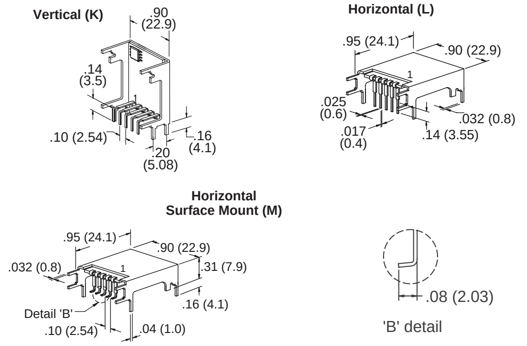


Fig. 7 Package Style EF(x)

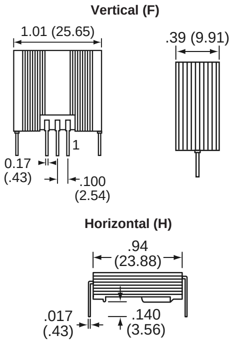


Fig.	Pkg. Style	DC Voltage Output (Vout)	Max. Amp Output (Iout)	Min. Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Orientation	External Components Required*	Over-Temp Pro-tection	Short Circuit Pro-tection	Vout Adj.	On/Off Control†	Remote Sense	Fast Transient Response	Recommended Operating Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	100
							Single Output ISR's (cont.)											
3	ECC	3.3	3.00	.10 (a)	4.5 to 5.5	Horz. SMD	2/100µF (n)	X	—	X	—	—	—	0 to +70 (b)	PT6405E-ND	19.94	18.61	17.28
3	ECD	3.3	3.00	.10 (a)	4.5 to 5.5	Vert.	2/100µF (n)	X	—	X	—	—	—	0 to +70 (b)	PT6405P-ND	19.94	18.61	17.28
6	EFL	3.3	3.00	.10 (a)	4.5 to 5.5	Horz.	100µF (n)	—	X	X	Inhibit	—	—	-40 to +85 (b,d)	PT5501A-ND	15.38	14.35	13.33
6	EFM	3.3	3.00	.10 (a)	4.5 to 5.5	Horz. SMD	100µF (n)	—	X	X	Inhibit	—	—	-40 to +85 (b,d)	PT5501C-ND	15.38	14.35	13.33
6	EFK	3.3	3.00	.10 (a)	4.5 to 5.5	Vert.	100µF (n)	—	X	X	Inhibit	—	—	-40 to +85 (b,d)	PT5501N-ND	15.38	14.35	13.33
2	EBA	3.3	3.00	.10 (a)	9 to 26	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6303A-ND	16.94	15.81	14.68
2	EBC	3.3	3.00	.10 (a)	9 to 26	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6303C-ND	16.94	15.81	14.68
2	EBD	3.3	3.00	.10 (a)	9 to 26	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6303N-ND	16.94	15.81	14.68
2	EBA	3.3	3.00 (h)	.30	4.5 to 9	Horz.	100µF (o)	X	X	X	—	—	—	0 to +70 (b)	PT6305A-ND	19.94	18.61	17.28
2	EBC	3.3	3.00 (h)	.30	4.5 to 9	Horz. SMD	100µF (o)	X	X	X	—	—	—	0 to +70 (b)	PT6305C-ND	19.94	18.61	17.28
2	EBD	3.3	3.00 (h)	.30	4.5 to 9	Vert.	100µF (o)	X	X	X	—	—	—	0 to +70 (b)	PT6305N-ND	19.94	18.61	17.28
6	EED	3.3	5.00(e)	.10(a)	9 to 28	Vert.	560uF/IN(p), 330uF/OUT(o)	—	—	X	Stnby	X	—	-40 to +85(e)	PT6651P-ND	27.05	25.25	23.44
6	EFL	3.3	5.50-6.00 (m)	0.0	4.5 to 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 to +85 (d)	PT5401A-ND *NEW!*	16.85	15.73	14.60
4	EEA	3.3	8.00	.10 (a)	4.5 to 5.5	Horz.	2/330µF (p)	—	X	X	Stnby	X	—	-40 to +85 (b,d)	PT6521D-ND	27.05	25.25	23.44
4	EEC	3.3	8.00	.10 (a)	4.5 to 5.5	Horz. SMD	2/330µF (p)	—	X	X	Stnby	X	—	-40 to +85 (b,d)	PT6521E-ND	27.05	25.25	23.44
4	EED	3.3	8.00	.10 (a)	4.5 to 5.5	Vert.	2/330µF (p)	—	X	X	Stnby	X	—	-40 to +85 (b,d)	PT6521P-ND	27.05	25.25	23.44
4	EEA	3.3	7.00 – 9.00 (e)	.10 (a)	4.5 to 6	Horz.	2/330µF (p)	X	—	X	Stnby	X	—	-40 to +85 (d,e)	PT6601D-ND	24.90	23.24	21.58
4	EEC	3.3	7.00 – 9.00 (e)	.10 (a)	4.5 to 6	Horz. SMD	2/330µF (p)	X	—	X	Stnby	X	—	-40 to +85 (d,e)	PT6601E-ND	24.90	23.24	21.58
4	EED	3.3	7.00 – 9.00 (e)	.10 (a)	4.5 to 6	Vert.	2/330µF (p)	X	—	X	Stnby	X	—	-40 to +85 (d,e)	PT6601P-ND	24.90	23.24	21.58
2	EBA	5.0 (f)	1.00	.10 (a)	9 to 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b,f)	PT6101A-ND	11.93	10.74	9.53
2	EBC	5.0 (f)	1.00	.10 (a)	9 to 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6101C-ND	11.93	10.74	9.53
2	EBD	5.0 (f)	1.00	.10 (a)	9 to 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6101N-ND	11.93	10.74	9.53
1	EAA	5.0	1.00	.10 (a)	9 to 38	Horz.	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5101A-ND	11.58	10.43	9.25
1	EAC	5.0	1.00	.10 (a)	9 to 38	Horz. SMD	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5101C-ND	11.58	10.43	9.25
1	EAD	5.0	1.00	.10 (a)	9 to 38	Vert.	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5101N-ND	11.54	10.43	9.25
5	EFA	5.0	1.50	.10 (a)	7 to 30	Horz.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR105HC-ND	15.38	14.35	13.33
5	EFC	5.0	1.50	.10 (a)	7 to 30	Horz. SMD	None	X	X	—	—	—	—	-40 to +80 (b)	78SR105SC-ND	15.38	14.35	13.33
5	EFD	5.0	1.50	.10 (a)	7 to 30	Vert.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR105VC-ND	15.38	14.35	13.33
5	EFA	5.0	1.50	.10 (a)	7 to 30	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	78ST105HC-ND	15.38	14.35	13.33
5	EFD	5.0	1.50	.10 (a)	7 to 30	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	78ST105VC-ND	15.38	14.35	13.33
5	EFA	5.0	1.50	.10 (a)	9 to 38	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST105H-ND	13.66	12.30	10.91
5	EFC	5.0	1.50	.10 (a)	9 to 38	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST105S-ND	14.46	13.02	11.55
5	EFD	5.0	1.50	.10 (a)	9 to 38	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST105V-ND	13.66	12.30	10.91
5	EFA	5.0	2.00	.10 (a)	V_O +2 to 28	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78HT205HC-ND	18.41	17.18	15.96
5	EFC	5.0	2.00	.10 (a)	V_O +2 to 28	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78HT205SC-ND	18.41	17.18	15.96
5	EFD	5.0	2.00	.10 (a)	V_O +2 to 28	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78HT205VC-ND	18.41	17.18	15.96
2	EBA	5.0	2.00	.10 (a)	7.25 to 30	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +60 (b)	PT6202A-ND	15.06	14.06	13.06
2	EBC	5.0	2.00	.10 (a)	7.25 to 30	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +60 (b)	PT6202C-ND	15.06	14.06	13.06
2	EBD	5.0	2.00	.10 (a)	7.25 to 30	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +60 (b)	PT6202N-ND	15.06	14.06	13.06
5	EFA	5.0	2.00	.10 (a)	8 to 20	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78ST205HC-ND	18.41	17.18	15.96
5	EFC	5.0	2.00	.10 (a)	8 to 20	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78ST205SC-ND	18.41	17.18	15.96
	EFD	5.0	2.00	.10 (a)	8 to 20	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	78ST205VC-ND	18.41	17.18	15.96
	EFA	5.0	2.00	.10 (a)	9 to 28	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	PT78HT205H-ND	15.38	14.35	13.33
	EFC	5.0	2.00	.10 (a)	9 to 28	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	PT78HT205S-ND	15.38	14.35	13.33
	EFD	5.0	2.00	.10 (a)	9 to 28	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	PT78HT205V-ND	15.38	14.35	13.33
2	EBA	5.0	2.00	.10 (a)	9 to 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6212D-ND	15.06	14.06	13.06
2	EBC	5.0	2.00	.10 (a)	9 to 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6212E-ND	15.06	14.06	13.06
2	EBD	5.0	2.00	.10 (a)	9 to 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6212P-ND	15.06	14.06	13.06
7	EFH (q)	5.0	3.00	.10 (a)	8 to 20	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +70 (b)	78ST305HC-ND	22.50	21.00	19.50
7	EFF (q)	5.0	3.00	.10 (a)	8 to 20	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +70 (b)	78ST305VC-ND	22.50	21.00	19.50
7	EFH (q)	5.0	3.00	.10 (a)	V_O +3 to 28	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +70 (b)	78HT305HC-ND	22.50	21.00	19.50
7	EFF (q)	5.0	3.00	.10 (a)	V_O +3 to 28	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +70 (b)	78HT305VC-ND	22.50	21.00	19.50
2	EBA	5.0	3.00	.10 (a)	9 to 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6302A-ND	16.94	15.81	14.68
2	EBC	5.0	3.00	.10 (a)	9 to 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6302C-ND	16.94	15.81	14.68
2	EBD	5.0	3.00	.10 (a)	9 to 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6302N-ND	16.94	15.81	14.68
4	EEA	5.0	5.00 (e)	.10 (a)	9 to 28	Horz.	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 to +85	PT6653D-ND	27.05	25.25	23.44
4	EEC	5.0	5.00 (e)	.10 (a)	9 to 28	Horz. SMD	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 to +85	PT6653E-ND	27.05	25.25	23.44
4	EED	5.0	5.00 (e)	.10 (a)	9 to 28	Vert.	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 to +85	PT6653P-ND	27.05	25.25	23.44
16	EPA	5.0	5.00	0.10 (a)	18 to 36	Horz.	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 to +85 (d)	PT6883A-ND *NEW!*	27.05	25.25	23.44
16	EPC	5.0	5.00	0.10 (a)	18 to 36	Horz. SMD	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 to +85 (d)	PT6883C-ND *NEW!*	27.05	25.25	23.44
4	EEA	5.0	6.00	.10 (a)	9 to 16	Horz.	2/330µF (o)	X	—	X	Stnby	X	—	-40 to +85 (e)	PT6625D-ND	27.05	25.25	23.44
4	EEC	5.0	6.00	.10 (a)	9 to 16	Horz. SMD	2/330µF (o)	X	—	X	Stnby	X	—	-40 to +85 (e)	PT6625E-ND	27.05	25.25	23.44
4	EED	5.0	6.00	.10 (a)	9 to 16	Vert.	2/330µF (o)	X	—	X	Stnby	X	—	-40 to +85 (e)	PT6625P-ND	27.05	25.25	23.44
15	EPJ	5.0	6.00	0.10 (a)	10.8 to 13.2	Horz.	100uF/IN, 330uF/OUT (n)	—	X	X	Inhibit	—	—	-40 to +85 (d,e)	PT6341A-ND *NEW!*	25.77	24.06	22.34

* Power Good: Power good output is high when the output voltage is within specification

† Inhibit: Power to complete part is shut off, quiescent current is less than 100 µA. Stnby: Standby Mode: Part is powered up, but output is in shut off or sleep mode.

(Continued)

Additional drawings on the previous and following pages.

Fig. 8 Package Style EL(x) (23 Pin SIP)

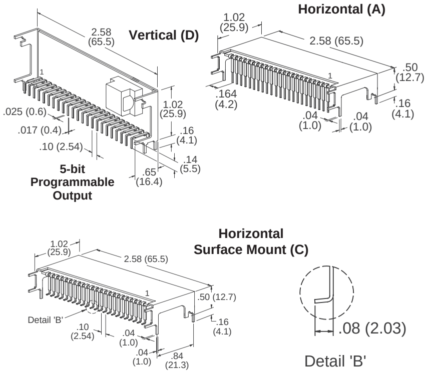


Fig. 9 Package Style EL(x) (23 Pin SIP)

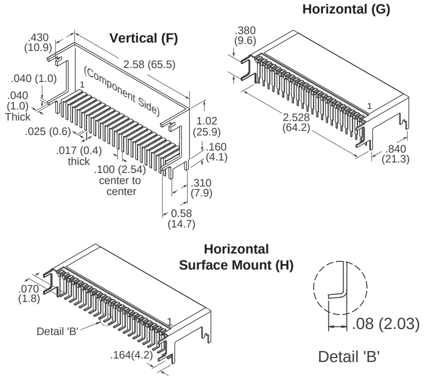


Fig. 10 Package Style EN(x) (27 Pins)

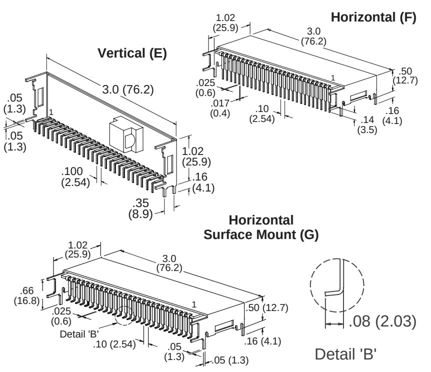


Fig.	Pkg. Style	DC Voltage Output (Vout)	Max. Amp Output (Iout)	Min. Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Orientation	External Components Required*	Over-Temp Pro-tection	Short Circuit Pro-tection	Vout Adj.	On/Off Control†	Remote Sense	Fast Transient Response	Recommended Operating Temp. Range (°C)	Digi-Key Part No.	Price Each		
																1	25	100
Single Output ISR's (cont.)																		
5	EFA	6.0	1.50	.10 (a)	8 to 30	Horz.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR106HC-ND	15.38	14.35	13.33
	EFA	8.0	1.50	.10 (a)	10 to 30	Horz.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR108HC-ND	15.38	14.35	13.33
	EFD	8.0	1.50	.10 (a)	10 to 30	Vert.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR108VC-ND	15.38	14.35	13.33
	EFA	9.0	1.50	.10 (a)	13 to 38	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST109H-ND *NEW!*	13.66	12.30	10.91
	EFD	9.0	1.50	.10 (a)	13 to 38	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST109V-ND	13.66	12.30	10.91
1	EAA	12.0	1.00	.10 (a)	4.75 to V_O-1	Horz.	100µF (n)	X	—	—	—	—	—	-20 to +70 (e)	PT5041A-ND	15.03	13.53	12.00
1	EAC	12.0	1.00	.10 (a)	4.75 to V_O -1	Horz. SMD	100µF (n)	X	—	—	—	—	—	-20 to +70 (e)	PT5041C-ND	15.03	13.53	12.00
1	EAD	12.0	1.00	.10 (a)	4.75 to V_O -1	Vert.	100µF (n)	X	—	—	—	—	—	-20 to +70 (e)	PT5041N-ND	15.03	13.53	12.00
2	EBA	12.0 (f)	1.00	.10 (a)	16 to 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +80 (b)	PT6103A-ND	11.93	10.74	9.53
2	EBC	12.0 (f)	1.00	.10 (a)	16 to 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +80 (b)	PT6103C-ND	11.93	10.74	9.53
2	EBD	12.0 (f)	1.00	.10 (a)	16 to 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +80 (b)	PT6103N-ND	11.93	10.74	9.53
1	EAA	12.0	1.00	.10 (a)	16 to 38	Horz.	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5102A-ND	11.58	10.43	9.25
1	EAC	12.0	1.00	.10 (a)	16 to 38	Horz. SMD	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5102C-ND	11.58	10.43	9.25
1	EAD	12.0	1.00	.10 (a)	16 to 38	Vert.	100µF (n)	X	X	—	—	—	—	-20 to +80 (b)	PT5102N-ND	11.58	10.43	9.25
14	EMF	12.0	1.50	.10(a)	7 to 16	Horz.	100uF/IN, 100uF/OUT (n)	—	—	X/(UVLO)	Stnby	—	—	-40 to +85 (d,e)	PT5071A-ND *NEW!*	30.17	28.16	26.15
5	EFA	12.0	1.50	.10 (a)	16 to 38	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST112H-ND	14.46	13.02	11.55
	EFC	12.0	1.50	.10 (a)	16 to 38	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST112S-ND	14.46	13.02	11.55
	EFD	12.0	1.50	.10 (a)	16 to 38	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	PT78ST112V-ND	13.66	12.30	10.91
	EFA	12.0	1.50	.10 (a)	14.5 to 30	Horz.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR112HC-ND	15.38	14.35	13.33
	EFC	12.0	1.50	.10 (a)	14.5 to 30	Horz. SMD	None	X	X	—	—	—	—	-40 to +80 (b)	78SR112SC-ND	15.38	14.35	13.33
5	EFD	12.0	1.50	.10 (a)	14.5 to 30	Vert.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR112VC-ND	15.38	14.35	13.33
5	EFA	12.0	1.50	.10 (a)	14.5 to 30	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	78ST112HC-ND	15.38	14.35	13.33
5	EFC	12.0	1.50	.10 (a)	14.5 to 30	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	78ST112SC-ND	15.38	14.35	13.33
5	EFD	12.0	1.50	.10 (a)	14.5 to 30	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +80 (b)	78ST112VC-ND	15.38	14.35	13.33
4	EEA	12.0	2.00	.10 (a)	4.5 to 5.5	Horz.	2/560µF (o)	—	—	X	—	X	—	-40 to +65 (m)	PT6674D-ND	27.05	25.25	23.44
4	EEC	12.0	2.00	.10 (a)	4.5 to 5.5	Horz. SMD	2/560µF (o)	—	—	X	—	X	—	-40 to +65 (m)	PT6674E-ND	27.05	25.25	23.44
4	EED	12.0	2.00	.10 (a)	4.5 to 5.5	Vert.	2/560µF (o)	—	—	X	—	X	—	-40 to +65 (m)	PT6674P-ND	27.05	25.25	23.44
7	EFH	12.0	2.00	.10 (a)	14.5 to 28	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +55 (b)	78ST212HC-ND	23.73	22.15	20.57
7	EFF	12.0	2.00	.10 (a)	14.5 to 28	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +55 (b)	78ST212VC-ND	23.73	22.15	20.57
2	EBA	12.0	2.00	.10 (a)	14.5 to 30	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +60 (b)	PT6204A-ND	15.06	14.06	13.06
2	EBC	12.0	2.00	.10 (a)	14.5 to 30	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +60 (b)	PT6204C-ND	15.06	14.06	13.06
2	EBD	12.0	2.00	.10 (a)	14.5 to 30	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +60 (b)	PT6204N-ND	15.06	14.06	13.06
7	EFF (q)	12.0	2.00	.10 (a)	16 to 28	Vert.	100µF (n)	X	X	—	—	—	—	-40 to +55 (b)	PT78ST212V-ND	23.19	21.65	20.10
2	EBA	12.0	2.00	.10 (a)	16 to 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6214D-ND	15.06	14.06	13.06
2	EBC	12.0	2.00	.10 (a)	16 to 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6214E-ND	15.06	14.06	13.06
2	EBD	12.0	2.00	.10 (a)	16 to 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6214P-ND	15.06	14.06	13.06
2	EBA	12.0	3.00	.10 (a)	16 to 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6304A-ND	16.94	15.81	14.68
2	EBC	12.0	3.00	.10 (a)	16 to 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6304C-ND	16.94	15.81	14.68
2	EBD	12.0	3.00	.10 (a)	16 to 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 to +85 (b)	PT6304N-ND	16.94	15.81	14.68
4	EEA	12.0	5.00 (e)	.10 (a)	V_O+3 to 28	Horz.	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 to +85 (e)	PT6656D-ND	27.05	25.25	23.44
4	EEC	12.0	5.00 (e)	.10 (a)	V_O+3 to 28	Horz. SMD	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 to +85 (e)	PT6656E-ND	27.05	25.25	23.44
4	EED	12.0	5.00 (e)	.10 (a)	V_O+3 to 28	Vert.	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 to +85 (e)	PT6656P-ND	27.05	25.25	23.44
16	EPA	12.0	5.00	0.10 (a)	18 to 36	Horz.	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 to +85 (d)	PT6886A-ND *NEW!*	27.05	25.25	23.44
16	EPC	12.0	5.00	0.10 (a)	18 to 36	Horz. SMD	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 to +85 (d)	PT6886C-ND *NEW!*	27.05	25.25	23.44
1	EAA	15.0	0.75	.10 (a)	4.75 to V_O-1	Vert.	100uF (n)	X	—	—	—	—	—	-20 to +85 (e)	PT5042A-ND *NEW!*	15.03	13.53	12.00
6	EFA	15.0	1.50	.10 (a)	11 to 38	Horz.	100uF/OUT (n)	X	X	—	—	—	X	-40 to +80	PT78ST115H-ND *NEW!*	13.66	12.30	10.91
5	EFA	15.0	1.50	.10 (a)	18.5 to 30	Horz.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR115HC-ND	15.38	14.35	13.33
5	EFD	15.0	1.50	.10 (a)	18.5 to 30	Vert.	None	X	X	—	—	—	—	-40 to +80 (b)	78SR115VC-ND	15.38	14.35	13.33
16	EPA	15.0	5.00	0.10 (a)	18 to 36	Horz.	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 to +85 (d)	PT6885A-ND *NEW!*	27.05	25.25	23.44
1	EAA	20.0	0.50	.10 (a)	4.75 to 14	Vert.	100uF (n)	X	—	—	—	—	—	-20 to +85 (e)	PT5049A-ND *NEW!*	15.03	13.53	12.00
Negative Output ISR''S																		
5	EFA	-5.0	-1.00	-.05 (a)	7 to 25	Horz.	2/100µF (p)	X	X	—	—	—	X	-40 to +85 (b)	PT78NR105H-ND	13.66	12.30	10.91
5	EFC	-5.0	-1.00	-.05 (a)	7 to 25	Horz. SMD	2/100µF (p)	X	X	—	—	—	X	-40 to +85 (b)	PT78NR105S-ND	13.66	12.30	10.91
5	EFD	-5.0	-1.00	-.05 (a)	7 to 25	Vert.	2/100µF (p)	X	X	—	—	—	X	-40 to +85 (b)	PT78NR105V-ND	13.66	12.30	10.91
1	EAA	-5.0	-1.00	-.25 (a)	4.75 to 7 (j)	Horz.	100µF (n)	—	—	—	—	—	—	-20 to +65 (e)	PT5022A-ND	15.03	13.53	12.00
1	EAC	-5.0	-1.00	-.25 (a)	4.75 to 7 (j)	Horz. SMD	100µF (n)	—	—	—	—	—	—	-20 to +65 (e)	PT5022C-ND	15.03	13.53	12.00

* Power Good: Power good output is high when the output voltage is within specification

† Inhibit: Power to complete part is shut off, quiescent current is less than 100 µA. Stnby: Standby Mode: Part is powered up, but output is in shut off or sleep mode.

(Continued)

Additional drawings on the previous pages.

Fig. 11 Package Style ER(x) (26 Pin SIP) *NEW!*

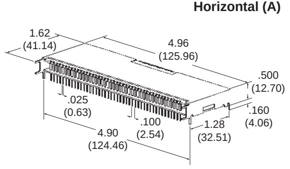


Fig. 12 Package Style EK(x) (31 Pin SIP) *NEW!*

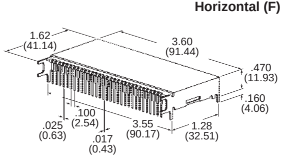


Fig. 13 Package Style EJ(x) (31 Pin SIP) *NEW!*

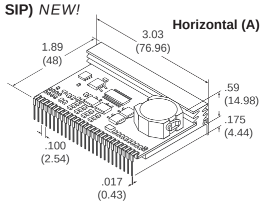


Fig. 14 Package Style EM(x) (14 Pin SIP) *NEW!*

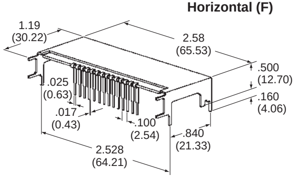


Fig. 15 Package Style EP(x) (12 Pin SIP) *NEW!*

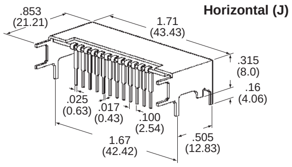


Fig. 16 Package Style EP(x) (18 Pin SIP) *NEW!*

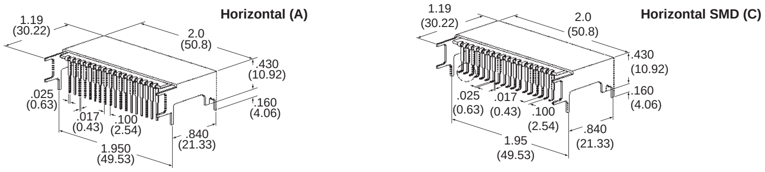


Fig.	Pkg. Style	DC Voltage Output (Vout)	Max. Amp Output (Iout)	Min. Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Orientation	External Components Required*	Over-Temp Pro-tection	Short Circuit Pro-tection	Vout Adj.	On/Off Control†	Remote Sense	Fast Transient Response	Recommended Operating Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	100
							Negative Output ISR''S (cont.)											
1	EAD	-5.0	-1.00	-.25 (a)	4.75 to 7 (j)	Vert.	100µF (n)	—	—	—	—	—	—	-20 to +65 (e)	PT5022N-ND	15.03	13.53	12.00
5	EFA	-5.0	-1.50	-.10 (a)	-9 to -30	Horz.	1N5339B	X	X	—	—	—	—	-40 to +60 (b)	PT79SR105H-ND	16.10	15.03	13.95
5	EFC	-5.0	-1.50	-.10 (a)	-9 to -30	Horz. SMD	1N5339B	X	X	—	—	—	—	-40 to +60 (b)	PT79SR105S-ND	16.10	15.03	13.95
5	EFD	-5.0	-1.50	-.10 (a)	-9 to -30	Vert.	1N5339B	X	X	—	—	—	—	-40 to +60 (b)	PT79SR105V-ND	15.38	14.35	13.33
4	EEA	-5.0	-4.00	-.10	8 to 25	Horz.	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 to +85 (e)	PT6642D-ND	27.05	25.25	23.44
4	EEC	-5.0	-4.00	-.10	8 to 25	Horz. SMD	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 to +85 (e)	PT6642E-ND	27.05	25.25	23.44
4	EED	-5.0	-4.00	-.10	8 to 25	Vert.	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 to +85 (e)	PT6642P-ND	27.05	25.25	23.44
8	ELA	-5.2	-3.5(e)	-.10(a)	4.5 to 5.5	Horz.	2/330uF(o)	—	—	X	—	X	—	0 to +60	PT6912A-ND *NEW!*	37.41	34.92	32.43
5	EFA	-12.0	-0.40	-.05 (a)	7 to 18	Horz.	2/100µF (p)	X	X	—	—	—	X	-40 to +85 (b)	PT78NR112H-ND	13.66	12.30	10.91
5	EFC	-12.0	-0.40	-.05 (a)	7 to 18	Horz. SMD	2/100µF (p)	X	X	—	—	—	X	-40 to +85 (b)	PT78NR112S-ND	13.66	12.30	10.91
5	EFD	-12.0	-0.40	-.05 (a)	7 to 18	Vert.	2/100µF (p)	X	X	—	—	—	X	-40 to +85 (b)	PT78NR112V-ND	13.66	12.30	10.91
1	EAA	-12.0	-0.50	-.10 (a)	4.75 to 7 (j)	Horz.	100µF (n)	—	—	—	—	—	—	-20 to +65 (e)	PT5024A-ND	15.03	13.53	12.00
1	EAC	-12.0	-0.50	-.10 (a)	4.75 to 7 (j)	Horz. SMD	100µF (n)	—	—	—	—	—	—	-20 to +65 (e)	PT5024C-ND	15.03	13.53	12.00
1	EAD	-12.0	-0.50	-.10 (a)	4.75 to 7 (j)	Vert.	100µF (n)	—	—	—	—	—	—	-20 to +65 (e)	PT5024N-ND	15.03	13.53	12.00
5	EFA	-12.0	-1.50	-.10 (a)	-16 to -30	Horz.	1N5351B	X	X	—	—	—	—	-40 to +60 (b)	PT79SR112H-ND	16.10	15.03	13.95
5	EFC	-12.0	-1.50	-.10 (a)	-16 to -30	Horz. SMD	1N5351B	X	X	—	—	—	—	-40 to +60 (b)	PT79SR112S-ND	16.10	15.03	13.95
5	EFD	-12.0	-1.50	-.10 (a)	-16 to -30	Vert.	1N5351B	X	X	—	—	—	—	-40 to +60 (b)	PT79SR112V-ND	15.38	14.35	13.33
4	EEA	-12.0	-2.00	-.10	8 to 18	Horz.	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 to +85 (e)	PT6643D-ND	27.05	25.25	23.44
4	EEC	-12.0	-2.00	-.10	8 to 18	Horz. SMD	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 to +85 (e)	PT6643E-ND	27.05	25.25	23.44
4	EED	-12.0	-2.00	-.10	8 to 18	Vert.	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 to +85 (e)	PT6643P-ND	27.05	25.25	23.44
5	EFA	-15.0	-0.30	-.05 (a)	7 to 15	Horz.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	PT78NR115H-ND	14.46	13.02	11.55
5	EFD	-15.0	-0.30	-.05 (a)	7 to 15	Vert.	100µF (n)	X	X	—	—	—	X	-40 to +85 (b)	PT78NR115V-ND	13.66	12.30	10.91

Fig.	Pkg. Style	DC Voltage Output (Vout)		Max. Amp Output (Iout)		Min. Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Oreintaion	External Components Required	Over-Temp Protection	Short Circuit Protection	VoutAdj	On/Off Control	Remote Sense	Recommended Operating Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	100
		Vo 1	Vo 2	Vo 1	Vo 2														
									Dual Output ISR''S										
9	ELG	3.3	1.5/1.2 (i)	6.00	1.45/1.20 (m)	0.10 (a,k)	4.5 to 5.5	Horz.	2/330uF (p)	X	—	2 (m)	STNBY	2	-40 to +85 (d,e)	PT6932A-ND	37.41	34.92	32.43
	ELH	3.3	1.5/1.2 (i)	6.00	1.45/1.20 (m)	0.10 (a,k)	4.5 to 5.5	Horz. SMD	2/330uF (p)	X	—	2 (m)	STNBY	2	-40 to +85 (d,e)	PT6932C-ND	37.41	34.92	32.43
	ELF	3.3	1.5/1.2 (i)	6.00	1.45/1.20 (m)	0.10 (a,k)	4.5 to 5.5	Vert.	2/330uF (p)	X	—	2 (m)	STNBY	2	-40 to +85 (d,e)	PT6932N-ND	37.41	34.92	32.43
	ELG	3.3	1.8/1.2 (i)	6.00	1.75/1.20 (m)	0.10 (a,k)	4.5 to 5.5	Horz.	2/330uF (o)	X	—	X (v)	STNBY	2	-40 to +85 (d,e)	PT6933A-ND *NEW!*	37.41	34.92	32.43
	ELG	3.3	1.8/1.2 (i)	6.00	1.75/1.20 (m)	0.10 (a,k)	4.5 to 5.5	Horz.	2/330uF (o)	X	—	X (v)	STNBY	2	-40 to +85 (d,e)	PT6931A-ND	37.41	34.92	32.43
9	ELF	3.3	2.5/1.8 (i)	6.00	2.20/1.75 (m)	0.10 (a,k)	4.5 to 5.5	Vert.	2/330uF (p)	X	—	2 (m)	STNBY	2	-40 to +85 (d,e)	PT6931C-ND	37.41	34.92	32.43
9	ELG	3.3	2.5/1.8 (i)	6.00	2.20/1.75 (m)	0.10 (a,k)	4.5 to 5.5	Horz.	2/330uF (p)	X	—	2 (m)	STNBY	2	-40 to +85 (d,e)	PT6931N-ND	37.41	34.92	32.43
3	ECA	+12.0	-12.0	+0.50	-0.25	.05(g)	4.75 to +Vo -1	Horz.	100uF (n)	X	—	X	—	—	0 to +65 (e)	PT5061A-ND	15.38	14.35	13.33
3	ECC	+12.0	-12.0	+0.50	-0.25	.05(g)	4.75 to +Vo -1	Horz. SMD	100uF (n)	X	—	X	—	—	0 to +65 (e)	PT5061C-ND	15.38	14.35	13.33
3	ECD	+12.0	-12.0	+0.50	-0.25	.05(g)	4.75 to +Vo -1	Vert.	100uF (n)	X	—	X	—	—	0 to +65 (e)	PT5061N-ND	15.38	14.35	13.33
3	ECA	+15.0	-15.0	+0.40	-0.20	0.05(u)	4.75 to +Vo -1	Horz.	100uF (n)	—	—	X	—	—	0 to +85	PT5062A-ND *NEW!*	15.38	14.35	13.33

* Power Good: Power good output is high when the output voltage is within specification

† Inhibit: Power to complete part is shut off, quiescent current is less than 100 µA. Stnby: Standby Mode: Part is powered up, but output is in shut off or sleep mode.

(a) ISR will operate down to no load with reduced specification.
(b) See thermal derating chart.
(c) Input voltage cannot exceed 30V when the inhibit function is used.
(d) Operating temperatures below 0 (0°C), use tantalum capacitors.
(e) See manufacturer's safe operating area curves for appropriate derating.
(f) Carries standards and safety approvals — see manufacturer's data sheet.
(g) Do not operate below minimum load.
(h) PT6305 series can easily be paralleled to provide output current in multiples of 3 Amps. Please contact Texas Instrument/Plug In Power Solutions for application note.
(i) With pin 23 open, V2out = First voltage shown is on the output. With pin 23 shorted to pin 22, V2out = Second voltage shown in chart.
(j) For applications with input voltages greater than 7VDC, Use the PT78NR100 series.
(k) Io min. current of .10A can be divided between both outputs, V1 or V2.
(l) This series can be paralleled with a current booster slave to increase output currents in specific increments — see manufacturer's data sheet.
(m) Please refer to manufacturer's data sheet for further explanation of ratings.
(n) An electrolytic or tantalum capacitor on the output is required for proper operation.
(o) Only use an electrolytic capacitor for proper operation.
(p) Please use Panasonic low ESR, FC series capacitors for proper operation — see manufacturer's data sheet.
(q) Heat sink or tab orientation - see manufacturer's data sheet.
(r) Remote sense ground not used, pin 12 must be connected to pin 13 for optimum output voltage accuracy.
(s) Has an (OVP) over voltage protection drive output.
(t) Processor compatible voltage output adjustment — see manufacturer's data sheet.
(u) Do NOT operate the negative output rail of this ISR below the minimum load.
(v) Vo 1 and Vo2 Adjust can be pin-strapped to an alternative lower bus voltage. Consult the voltage adjustment application note information.

Fig. 1 AEE00B Series — 10W Single Output: • 2-1 Input Range • Operating Temp: -25°C to +95°C

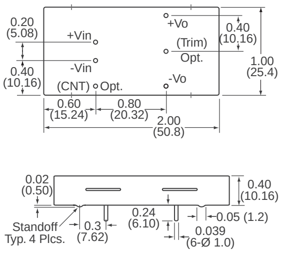
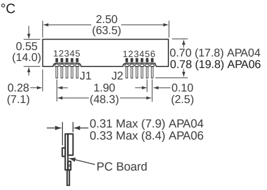


Fig. 2 APA06 and APA04 Series — 20W Single Output: • Standard SIP package 2.5 x .55 x .31" • Operating Temp: 25°C to 55°C



APA04 Series		APA06 Series	
J1-1 +Vout	J2-1 GND	J1-1 +Vout	J2-1 GND
J1-2 +Vout	J2-2 GND	J1-2 +Vout	J2-2 +Vin
J1-3 +Vout	J2-3 +Vin	J1-3 Sense	J2-3 +Vin
J1-4 GND	J2-4 +Vin	J1-4 +Vout	J2-4 Pwr Good
J1-5 GND	J2-5 +Vin	J1-5 GND	J2-5 Trim
	J2-6 +Vin		J2-6 CNT

Fig. 3 APC08 Series — 28W (8POL) Single Output: • Point of load (POL) applications • Open Frame SMT • Operating Temp: -40°C to +85°C

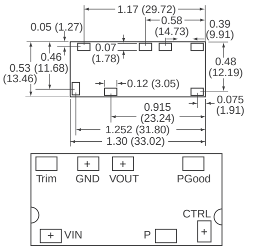
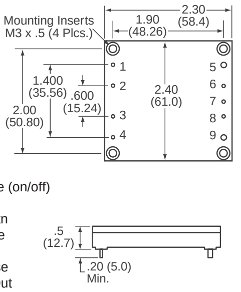
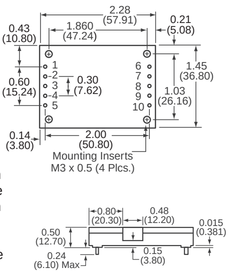


Fig. 4 AEH10-30 Series — 50-150W Single Output: • Operating Temp: -40°C to +100°C



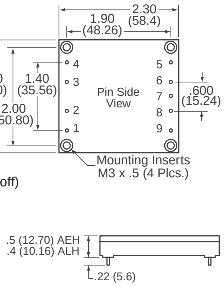
1. -Vin
2. Case
3. Enable (on/off)
4. +Vin
5. -5V Rtn
6. -Sense
7. Trim
8. +Sense
9. +5V Out

Fig. 5 AK45C Series — 100W Single Output: • Operating Temp: -40°C to +100°C



1. -Vin
2. No Pin
3. Enable
4. No Pin
5. +Vin
6. Rtn
7. -Sense
8. Trim
9. +Sense
10. +Vout

Fig. 6 AEH60 and ALH60 (Open Frame) Series — 200W Single Output: • Operating Temp: -40°C to +100°C



1. +Vin
2. Enable (on/off)
3. Case
4. -Vin
5. -Output
6. -Sense
7. Trim
8. +Sense
9. +Output

Fig. 7 AEE01 Series — 10W Single Output: • Operating Temp: -25°C to +95°C

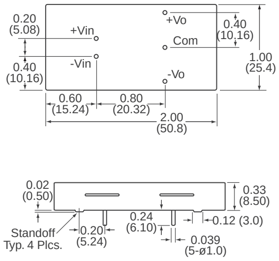
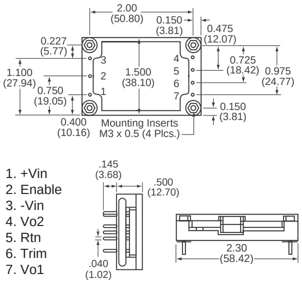
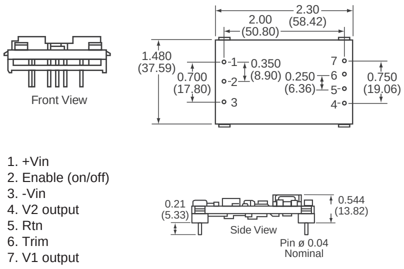


Fig. 8 AEQ15 Series — 60W Dual Output: • -40°C to +100°C Baseplate • 1.50 x 2.30 x 0.5" • Regulation to zero load • Operating Temp: -40°C to +100°C



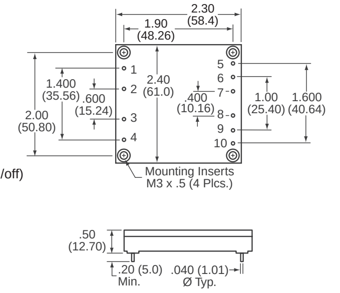
1. +Vin
2. Enable
3. -Vin
4. Vo2
5. Rtn
6. Trim
7. Vo1

Fig. 9 ALQ15 Series — 60W Dual Output: • High Efficiency • Industry standard 1/4 Brick Footprint • Operating Temp: -40°C to +85°C



1. +Vin
2. Enable (on/off)
3. -Vin
4. V2 output
5. Rtn
6. Trim
7. V1 output

Fig. 10 AA60A Series — 60W Dual Output: • Operating Temp: -40°C to +105°C • 48VDC Input • Unencapsulated 2.3" x 2.4" x 0.50" pkg.



1. -Vin
2. Case
3. Enable (on/off)
4. Vin+
5. V2
6. Rtn (V2)
7. Trim (V2)
8. V1
9. Rtn (V1)
10. Trim (V1)

Fig. 11 ALH25 Dual Series — 100W Dual Output: • Open Frame 2.3 x 2.4 x 0.50" • Operating Temp: -40°C to +125°C

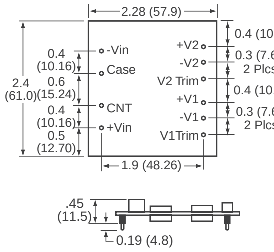


Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each	Astec Part No.
Single Output						
1	12V	0.84A	9-18V	454-1009-ND	41.04	AEE00B12-49
	12V	0.84A	18-36V	454-1010-ND	25.56	AEE00B24
2	1.5V	6.0A	3.0-5.5V	454-1022-ND	25.82	APA06M04
	1.8V	6.0A	3.0-5.5V	454-1023-ND	27.32	APA06Y04
	2.1V	6.0A	3.0-5.5V	454-1024-ND	38.54	APA06D04
	3.3V	6.0A	4.5-5.5V	454-1029-ND	38.54	APA06F05
	2.5V	6.0A	4.5-5.5V	454-1025-ND	28.14	APA06G05
	5.0V	4.0A	3.3-4.0V	454-1020-ND	38.54	APA04A03
3	0.9V	8.0A	1.8-6.0V	454-1031-ND	26.00	APC08J03-J
	1.2V	8.0A	1.8-6.0V	454-1032-ND	26.00	APC08K03-J
	1.5V	8.0A	1.8-6.0V	454-1033-ND	26.00	APC08M03-J
	1.8V	8.0A	1.8-6.0V	454-1034-ND	26.00	APC08Y03-J
	2.5V	8.0A	1.8-6.0V	454-1035-ND	26.00	APC08G03-J
	0.9V	8.0A	5.0-13.0V	454-1037-ND	26.00	APC08J08-J
	1.2V	8.0A	5.0-13.0V	454-1038-ND	26.00	APC08K08-J
	1.5V	8.0A	5.0-13.0V	454-1039-ND	26.00	APC08M08-J
	1.8V	8.0A	5.0-13.0V	454-1040-ND	26.00	APC08Y08-J
	3.3V	8.0A	1.8-6.0V	454-1036-ND	26.00	APC08F03-J
	2.5V	8.0A	5.0-13.0V	454-1041-ND	26.00	APC08G08-J
	3.3V	8.0A	5.0-13.0V	454-1042-ND	26.00	APC08F08-J
4	2.5V	20A	36-72V	454-1053-ND	133.00	AEH20G48N
	3.3V	20A	18-36V	454-1050-ND	133.00	AEH20F24N
	3.3V	20A	36-72V	454-1054-ND	133.00	AEH20F48N
	3.3V	30A	36-72V	454-1058-ND	143.50	AEH30F48N
4	5.0V	10A	36-72V	454-1043-ND	66.23	AEH10A48
	5.0V	20A	18-36V	454-1051-ND	89.24	AEH20A24N
	5.0V	20A	36-72V	454-1056-ND	133.00	AEH20A48N
	5.0V	30A	36-72V	454-1059-ND	143.50	AEH30A48N
5	2.5V	20A	48V	454-1052-ND	141.41	AK45C-048L-025F20HAN
	3.3V	20A	48V	454-1055-ND	141.41	AK45C-048L-033F20HAN
6	1.2V	60A	48V	454-1060-ND	157.56	ALH60K48N
	1.2V	60A	48V	454-1061-ND	161.70	AEH60K48N
	1.8V	60A	48V	454-1064-ND	161.70	AEH60Y48N
	1.8V	60A	48V	454-1065-ND	157.56	ALH60Y48N
	2.5V	60A	48V	454-1066-ND	161.70	AEH60G48N
	2.5V	60A	48V	454-1067-ND	157.56	ALH60G48N
	3.3V	60A	48V	454-1069-ND	161.70	AEH60F48N
	3.3V	60A	48V	454-1068-ND	157.56	ALH60F48N
Dual						
7	5.0V/-5V	1.0A/1.0A	18-36V	454-1011-ND*	31.02	AEE01AA24
8	5.0V/3.3V	12A/15A	48V	454-1044-ND	141.99	AEQ15AF48N
9	2.5V/1.5V	15A/15A	48V	454-1045-ND	141.99	ALQ15GM48
	3.3V/1.8V	15A/15A	48V	454-1046-ND	141.99	ALQ15FY48
	3.3V/2.5V	15A/15A	48V	454-1047-ND	141.99	ALQ15FG48
10	3.3V/2.5V	19A/19A	36-75V	454-1049-ND	143.24	AA60A-048L-033D025N
11	5.0V/3.3V	20A/25A	36-75V	454-1057-ND	119.31	ALH25AF48

*Minimum ouput current 0.1A.

(Continued)

Fig. 12

AA10U Series — 7.5 Watt Dual Output: • Operating Temp: -40°C to +75°C

1. +Vin
2. -Vin
3. Ouput 1
4. COMM
5. Output 2

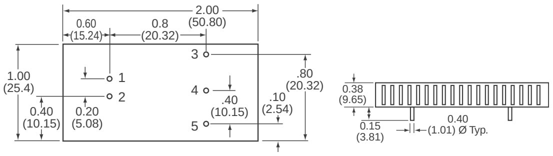


Fig. 13

AA25N Series — 25W Dual Output: • Unencapsulated 2.0 x 2.0 x 0.50" package • Operating Temp: -40°C to +100°C

1. +Vin
2. -Vin
3. No Pin
4. Enable
5. V1 Out
6. COMM
7. V2 Out
8. N/C

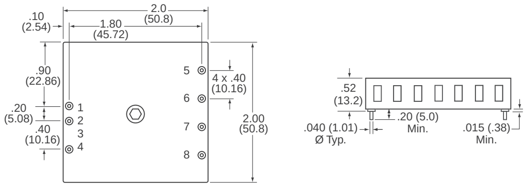


Fig. 14

AA05E Series — 5W Single Output: • Operating Temp: -40°C to +85°C

2 & 3: -Vin
22 & 23: +Vin
14: +Vout
16: COMM
Remaining Pins NC

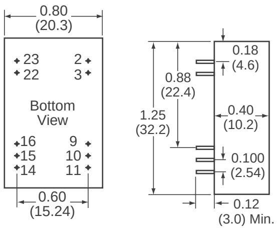


Fig. 15

AEE04 Series — 15W Single Output: • Operating Temp: -40°C to +105°C • 1.0" x 2.0" x 0.4 case

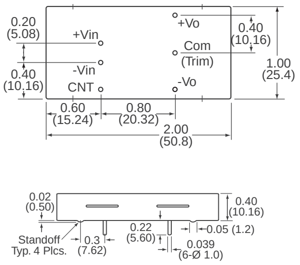


Fig. 16

ALT Series — 25W Single Output: • Operating Temp: -40°C to +100°C (Baseplate Temperature)

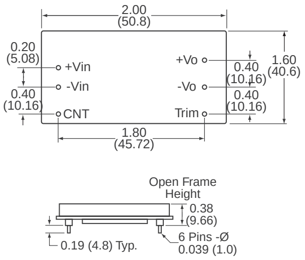


Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each	Astec Part No.
Dual						
12	+5V/-5V	.75A/.75A	9-36VDC	454-1090-ND	58.92	AA10U-024L-050D
13	5.0V/3.3V	5A/6A	36-75VDC	454-1030-ND	82.36	AA25N-048L-050D033
Single Output						
14	3.3V	1.0A	9-18VDC	454-1001-ND	54.19	AA05E-012L-033S
	3.3V	1.0A	36-72VDC	454-1006-ND	54.19	AA05E-048L-033S
	5V	1.0A	9-18VDC	454-1002-ND	54.19	AA05E-012L-050S
	5V	1.0A	18-36VDC	454-1004-ND	54.19	AA05E-024L-050S
	5V	1.0A	36-72VDC	454-1007-ND	54.19	AA05E-048L-050S

Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each	Astec Part No.
14	12V	0.41A	18-36VDC	454-1003-ND	54.19	AA05E-024L-120S
	12V	0.41A	36-72VDC	454-1005-ND	54.19	AA05E-048L-120S
15	2.5V	4.5A	36-72VDC	454-1093-ND	39.72	AEE04G48-197
	3.3V	4.5A	18-36VDC	454-1012-ND	39.72	AEE04F24-197
	3.3V	4.5A	36-72VDC	454-1094-ND	39.72	AEE04F48-97
	5.0V	3.0A	36-72VDC	454-1095-ND•	38.65	AEE03A48-97
	5.0V	3.0A	36-72VDC	454-1096-ND	38.65	AEE03A48-7
16	3.3V	6A	48V	454-1091-ND	40.17	ALT06F48
	5.0V	5A	48V	454-1092-ND	40.17	ALT05A48

• Trim feature

Power Supplies

LPS40 Series — Single Outputs 40 - 50 Watts AC/DC

Specifications:
- **Mating Connectors:** Housing Input: 09-50-8031; Housing Output: 09-50-8061; Contacts: 08-52-0113
- **Input Voltage:** 85 to 264VAC • Footprint: 3" x 5"

Output Voltage 1	Output Current Min./Max.	Digi-Key Part No.	Price Each	Astec Part No.
+5V	0A/8A	454-1073-ND	46.25	LPS42
+12V	0A/3.3A	454-1070-ND	46.25	LPS43
+24V	0A/1.6A	454-1071-ND	46.25	LPS45
+48V	0A/0.9A	454-1072-ND	46.25	LPS48

LPT40 Series — Triple Outputs 40 - 55 Watts AC/DC

Specifications:
- **Mating Connectors:** Housing Input: 09-50-8031; Housing Output: 09-50-8061; Contacts: 08-52-0113
- **Input Voltage:** 85 to 264VAC • Footprint: 3" x 5"

Output		Output		Output				
Voltage 1	Current Min./Max.	Voltage 2	Current Min./Max.	Voltage 3	Current Min./Max.	Digi-Key Part No.	Price Each	Astec Part No.
+3.3V	0.5A/4A	+5	0A/1.5A	+12V	0A/0.5A	454-1077-ND	55.50	LPT41
+5V	0.4A/4A	+12	0.2A/2A	-12V	0A/0.5A	454-1075-ND	42.55	LPT42
+5V	0.5A/6A	+12	0A/0.5A	-12V	0A/0.5A	454-1076-ND	48.10	LPT43
+5V	0.4A/4A	+12	0.2A/2A	-5V	0A/0.5A	454-1080-ND	48.10	LPT44
+5V	0.4A/4A	+15	0.2A/2A	-15V	0A/0.5A	454-1081-ND	48.10	LPT45
+5V	0.4A/4A	+24	0.2A/1A	-12V	0A/0.5A	454-1074-ND	48.10	LPT47

LPT25 Series — Triple Outputs 25 - 40 Watts AC/DC

Specifications:
- **Mating Connectors:** Housing Input: 09-50-8031; Housing Output: 09-50-8061; Contacts: 08-52-0113
- **Input Voltage:** 85 to 264VAC • Footprint: 3" x 5"

Output		Output		Output				
Voltage 1	Current Min./Max.	Voltage 2	Current Min./Max.	Voltage 3	Current Min./Max.	Digi-Key Part No.	Price Each	Astec Part No.
+5V	0.3A/3A	+12V	0.1A/1.5A	-12V	0A/0.5A	454-1078-ND	40.70	LPT22
+5V	0.3A/3A	+12V	0.1A/1.5A	-5V	0A/0.5A	454-1079-ND	44.40	LPT24

LPQ250 Series — Quad Outputs 200 - 250 Watts AC/DC

Specifications:
- Screw Terminal • **Input Voltage:** 85 to 264VAC • Cover: -C • Fan Cover: -CF • Foot print: 5" x 9"

Output		Output		Output		Output				
Volt. 1	Current Min./Max.	Volt. 2	Current Min./Max.	Volt. 3	Current Min./Max.	Volt. 4	Current Min./Max.	Digi-Key Part No.	Price Each	Astec Part No.
+5V	3A/35A	+12V	0A/10A	-12V	0A/6A	±5-25V	0A/6A	454-1084-ND	280.98	LPQ252-C
+5V	3A/35A	+12V	0A/10A	-12V	0A/6A	±5-25V	0A/6A	454-1082-ND	312.91	LPQ252-CF

LPQ350 Series — Quad Outputs 350 Watts AC/DC

Specifications:
- Screw Terminal • **Input Voltage:** 85 to 264VAC • Cover: -C • Fan Cover: -CF • Footprint: 5" x 9"

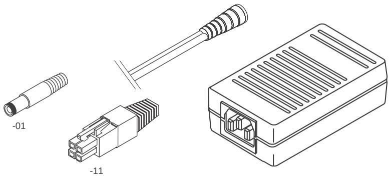
Output		Output		Output		Output				
Volt. 1	Current Min./Max.	Volt. 2	Current Min./Max.	Volt. 3	Current Min./Max.	Volt. 4	Current Min./Max.	Digi-Key Part No.	Price Each	Astec Part No.
+5V	5A/50A	+12V	0A/12A	-12V	0A/6A	3.3-24V	1A/6A	454-1085-ND	383.16	LPQ352-C
+5V	5A/50A	+12V	0A/12A	-12V	0A/6A	3.3-24V	1A/6A	454-1083-ND	415.09	LPQ352-CF

CONDOR

9288B-ND Power Engineering Manual **$2.95**

NEW! Medical Single Output – GXM60 Series

Features:
• Universal Input • Medically approved to UL2601-1, CSA 22.2 No. 601.1-M90, EN60601-1, and CB certified to IEC601-1 • 2 year warranty
Specifications:
AC Input: 90-264VAC, 47-63Hz single phase. Input power is less than 75W when output power is less than 60W, 230VAC in. Meets EN61000-3-2 harmonics standard.
Minimum Load: No minimum load required.
EMI / EMC Compliance: All models include built-in EMI filtering. • **Conducted Emissions:** EN55011, Class B; FCC Class B • **Static Discharge:** EN61000-4-2, 6kV contact 8kV air • **RF Field Susceptibility:** EN61000-4-3, 3V/meter • **Fast Transients / Bursts:** EN61000-4-4, 2kV, 5kHz • **Surge Susceptibility:** EN61000-4-5, 1kV diff., 2kV com • **Conducted RF Susceptibility:** EN61000-4-6, 3V • **Voltage Sags & Surges:** EN61000-4-11
Medical Safety Agency: All models are approved to UL2601, CSA 22.2 No. 601.1-M90, IEC 601-1 (1988), EN 60601-1
Note: Ships without the power cord (Suggested Cord: Q132-ND).

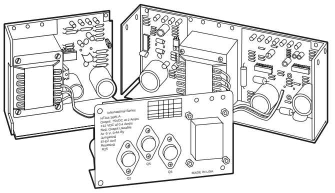


Total Power Watts	Output 1	Dimensions L x W x H Inch (mm)	Output Plug	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
60	5V @ 11A	5.34 x 3.05 x 1.8 (135.64 x 77.47 x 45.72)	Molex Mini-Fit	271-2221-ND	105.00	99.75	94.50	89.25	GXM60-5A11
	12V @ 5.0A		2.1 mm Barrel	271-2222-ND	105.00	99.75	94.50	89.25	GXM60-12A01
	15V @ 4.0A		2.1 mm Barrel	271-2223-ND	105.00	99.75	94.50	89.25	GXM60-15A01
	24V @ 2.5A		2.1 mm Barrel	271-2224-ND	105.00	99.75	94.50	89.25	GXM60-24A01
	28V @ 2.2A		2.1 mm Barrel	271-2225-ND	105.00	99.75	94.50	89.25	GXM60-28A01
	36V @ 1.7A		2.1 mm Barrel	271-2226-ND	105.00	99.75	94.50	89.25	GXM60-36A01

Medical Global Switchers

FEATURES:
• Wide range input (85-264V) • Approval to IEC601-1, UL2601 and CSA 601.1 • Conducted Emissions to FCC and VDC Class B • 2-Year Warranty • Models from 28-225W **Input Protection:** Internal AC fuse provided on all units. This fuse only blows if a catastrophic failure occurs in the unit — it does not blow on overload or short circuit. AC input protected against line transients by metal oxide varistors on all medical units. **Output Noise and Ripple:** 0.5% RMS, 1% Pk-Pk maximum on all outputs (20MHz bandwidth on GSM7 & GSM28 series. **Temperature Coefficient:** 0.03%/°C typical for all outputs.

GENERAL SPECIFICATIONS:
• **AC Input:** 85-264VAC, 47-63Hz single phase • **Safety Specifications:** All medical models are approved to UL544/UL2601, IEC601-1, CSA234L3, VDE0750 and CE9LVD • **Overload Protection:** Fully protected against short circuit and output overload. Short circuit protection is cycling type on Outputs #1 and#2; foldback type on Outputs #3 and #4. Recovery after fault is automatic. • **Temperature Rating:** 0°C to 50°C full rated load • **Minimum Load:** Single output units require no minimum load except for GSM28 (GSM28 = ±5%). Multiple output units: GPM40 = 0.4A, GPM55 = 0.7A, GPM80 = 1A, GPM130 = 3A, GSL50 = 0.8A. • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B (FCC Class B, CISPR 11 Class B and EN5522 Class B for GSM7 & GSM28 Series) • **Voltage Adjustment:** Outputs adjustable ±5% minimum via built-in potentiometer (Factory set for GSM7 & GSM28 Series) • **Remote Sense:** Provided as a standard feature on the +5V output of the GPM130 and on all single output units, GLD150, GLM65, GPFM250 single and primary output GPM130 • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reversed output



Single Output Medical

Total Power Watts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors: Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
GSM Series														
7	5.0V @ 1.4A	—	2.00 x 2.28 x .50 (50.80 x 57.91 x 12.70)	—	—	—	—	—	271-1100-ND	30.68	29.15	27.62	26.09	GSM7-5
	12V @ .58A	—							271-1101-ND	30.68	29.15	27.62	26.09	GSM7-12
	15V @ .47A	—							271-1102-ND	30.68	29.15	27.62	26.09	GSM7-15
	24V @ .29A	—							271-1103-ND	30.68	29.15	27.62	26.09	GSM7-24
	28V @ .25A	—							271-1104-ND	30.68	29.15	27.62	26.09	GSM7-28
Connector Kit for GSM7 Series									271-1135-ND	8.74	—	—	—	18-30234-1003
28	5.1V @ 5.5A	±5%	2.59 x 4.00 x .92 (65.79 x 101.60 x 23.37)	WM2125	WM2124	WM17403	—	—	271-1121-ND	54.60	51.87	49.14	46.41	GSM28-5
	12V @ 2.3A	±5%							271-1122-ND	54.60	51.87	49.14	46.41	GSM28-12
	24V @ 1.2A	±5%							271-1123-ND	54.60	51.87	49.14	46.41	GSM28-24
Chassis and Cover for GSM28 Series, 4.31" x 3.10" x 1.53" (109.47mm x 78.74mm x 38.86mm)									271-1128-ND	13.10	—	—	—	08-30466-0028
NEW! GPC Series NEW!														
41	5.1V @ 6.0A	0.15	4.00 x 2.00 x 1.50 (101.60 x 50.80 x 38.10)	A19950	A9952	A199993CT	—	—	271-2227-ND	63.00	59.85	56.70	53.55	GPM41-5
	12V @ 3.3A	0.03							271-2228-ND	63.00	59.85	56.70	53.55	GPM41-12
	24V @ 1.7A	0.01							271-2229-ND	63.00	59.85	56.70	53.55	GPM41-24
GPM Series														
40	12V @ 3.3A	—	3.00 x 5.00 x 1.28 (76.20 x 127.00 x 32.51)	WM2123	WM2104	WM17403	—	—	271-1019-ND	78.62	74.69	70.76	66.83	GPM40-12
	15V @ 2.7A	—							271-1020-ND	78.62	74.69	70.76	66.83	GPM40-15
	24V @ 1.7A (2.1pk)	—							271-1021-ND	78.62	74.69	70.76	66.83	GPM40-24
	28V @ 1.4A (2.1pk)	—							271-1022-ND	78.62	74.69	70.76	66.83	GPM40-28
	+5V @ 8.0A	—							271-1023-ND	78.62	74.69	70.76	66.83	GPM40-5
80/110*	12V @ 6.7A	—	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	WM2103	WM2105	WM17403	—	—	271-1027-ND	144.14	136.94	129.73	122.52	GPM80-12
	24V @ 3.4A	—							271-1029-ND	144.14	136.94	129.73	122.52	GPM80-24
GLM Series														
50	3.3V @ 8A	—	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	—	—	271-2196-ND	64.61	63.10	60.80	57.37	GLM50-3.3
	5.1V @ 8A	—							271-2198-ND	64.61	63.10	60.80	57.37	GLM50-5
	12V @ 4.2A	—							271-2192-ND	64.61	63.10	60.80	57.37	GLM50-12
	15V @ 3.3A	—							271-2193-ND	64.61	63.10	60.80	57.37	GLM50-15
	24V @ 2.1A	—							271-2194-ND	64.61	63.10	60.80	57.37	GLM50-24
	28V @ 1.8A	—							271-2195-ND	64.61	63.10	60.80	57.37	GLM50-28
65	5.1V @ 11A	—	5.00 x 3.00 x 1.00 (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	271-2165-ND	77.70	73.82	69.93	66.05	GLM65-5
	12V @ 5.5A	—							271-2159-ND	77.70	73.82	69.93	65.52	GLM65-12
	15V @ 4.3A	—							271-2160-ND	77.70	73.82	69.93	66.05	GLM65-15
	24V @ 2.7A	—							271-2161-ND	77.70	73.82	69.93	65.52	GLM65-24
	28V @ 2.3A	—							271-2162-ND	77.70	73.82	69.93	65.52	GLM65-28
	48V @ 1.35A	—							271-2164-ND	77.70	73.82	69.93	66.05	GLM65-48
GPFM Series														
115	5.1V @ 12A	—	5.25 x 3.30 x 1.50 (133.35 x 83.82 x 38.10)	A19953	A19956	A19990	A19492	A19520	271-2158-ND	115.61	109.82	104.06	87.60	GPFM115-5
	12V @ 6.7A	—							271-2153-ND	115.61	109.82	104.06	87.60	GPFM115-12
	15V @ 5.3A	—							271-2154-ND	115.61	109.82	104.06	87.60	GPFM115-15
	24V @ 3.3A	—							271-2155-ND	115.61	109.82	104.06	87.60	GPFM115-24
	28V @ 2.9A	—							271-2156-ND	115.61	109.82	104.06	87.60	GPFM115-28
	48V @ 1.7A	—							271-2157-ND	115.61	109.82	104.06	87.60	GPFM115-48
250	5.1V @ 45A	—	8.00 x 5.00 x 1.75 (203.20 x 127.00 x 44.45)	A19953	A19956	A19990	—	—	271-2152-ND	285.66	271.39	257.11	242.82	GPFM250-5
	12V @ 21A	—							271-2147-ND	285.66	271.39	257.11	242.82	GPFM250-12
	15V @ 17A	—							271-2148-ND	285.66	271.39	257.11	242.82	GPFM250-15

***** 26cfm moving air required. † Convection/Air Flow

(Continued)

Single Output Medical *(Cont.)*

Total Power Watts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
				Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts		1	10	25	50	
GPFM Series (Cont.)														
250	24V @ 11A	—	8.00 x 5.00 x 1.75 (203.20 x 127.00 x 44.45)	A19953	A19956	A19990	—	—	271-2149-ND	285.66	271.39	257.11	242.82	GPFM250-24
	28V @ 9.5A	—							271-2150-ND	285.66	271.39	257.11	242.82	GPFM250-28
	48V @ 5.2/6.1A†	—							271-2151-ND	285.66	271.39	257.11	242.82	GPFM250-48
Cover with Fan for GPFM250 Series, 8.00" x 5.00" x 1.81" (203.20mm x 127.00m x 45.97mm)									271-1138-ND	18.46	—	—	—	09-250CF
GLD Series														
150	12V @ 10.8A	—	7.00 x 4.50 x 1.70 (177.80 x 114.30 x 43.18)	WM18436	WM3703	WM5959	A19494	A19490	271-2172-ND	221.49	210.41	199.35	188.27	GLD150-12
	15V @ 8.7A	—							271-2173-ND	221.49	210.41	199.35	188.27	GLD150-15
	24V @ 5.7A	—							271-2174-ND	221.49	210.41	199.35	188.27	GLD150-24

Triple Output Medical

Total Power Watts	Output 1	Output 2	Output 3	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Condor Part No.
					Housing Input	Housing Output	Contacts		1	10	25	50	
GPM Series													
40	+5V @ 4.0A	+12V @ 2.0A (3pk)	-12V @ 0.4A	3.00 x 5.00 x 1.28 (76.20 x 127.00 x 32.51)	WM2123	WM2104	WM17403	271-1039-ND	78.62	74.69	70.76	66.83	GPM40A
	+5V @ 4.0A	+15V @ 2.0A (3pk)	-15V @ 0.4A					271-1040-ND	78.62	74.69	70.76	66.83	GPM40B
GLM50 Series													
50	+5.05V @ 4A	+12V @ 2.5A	-12V @ 0.2A	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	271-2199-ND	64.61	63.10	60.80	57.37	GLM50A
	+5.1V @ 4A	+15V @ 2.5A	-15V @ 0.2A					271-2200-ND	64.61	63.10	60.80	57.37	GLM50B
	+5.1V @ 4A	+24V @ 1.5A	-12V @ 0.2A					271-2201-ND	64.61	63.10	60.80	57.37	GLM50D
	+3.3V @ 4A	+12V @ 2.5A	-12V @ 0.2A					271-2202-ND	64.61	63.10	60.80	57.37	GLM50G

Quad Output Medical

Total Power Watts	Output 1	Output 2	Output 3	Output 4	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Condor Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
GPM Series														
55	+5V @ 6.0A	+12V @ 3.0A (5pk)	+12V @ 1.0A	-12V @ 1.0A	6.30 x 3.94 x 1.68 (160.02 x 100.08 x 42.67)	WM17401	WM17402	WM17403	271-1041-ND	104.83	99.59	94.35	89.11	GPM55A
55	+5V @ 6.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	-5V @ 1.0A					271-1042-ND	104.83	99.59	94.35	89.11	GPM55B
55	+5V @ 6.0A	+15V @ 3.0A (5pk)	-15V @ 1.0A	-5V @ 1.0A					271-1043-ND	104.83	99.59	94.35	89.11	GPM55C
55	+5V @ 6.0A	+24V @ 1.5A (2pk)	+12V @ 1.0A	-12V @ 1.0A					271-1044-ND	104.83	99.59	94.35	89.11	GPM55D
55	+5V @ 6.0A	+24V @ 1.5A (2pk)	+15V @ 1.0A	-15V @ 1.0A					271-1045-ND	104.83	99.59	94.35	89.11	GPM55E
80/110*	+5V @ 12.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	+12V @ 1.0A	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	WM2103	WM1910	WM17403	271-1046-ND	144.14	136.94	129.73	122.52	GPM80A
80/110*	+5V @ 12.0A	+12V @ 3.0A (5pk)	-15V @ 1.0A	+15V @ 1.0A					271-1048-ND	144.14	136.94	129.73	122.52	GPM80C
80/110*	+5V @ 12.0A	+24V @ 2.0A (4pk)	-15V @ 1.0A	+15V @ 1.0A					271-1050-ND	144.14	136.94	129.73	122.52	GPM80E
80/110*	+5V @ 12.0A	+24V @ 3.5A (4.5pk)	-12V @ 1.0A	+12V @ 2.0A					271-1051-ND	144.14	136.94	129.73	122.52	GPM80P

***** 26cfm moving air required. † Convection/Air Flow

Linear Medical Power Supplies

World Class Medical Linears

FEATURES: • 19 Models (single, dual and triple output) • Approved to UL 544, IEC 601 and CSA 234 L3 • 3 power levels (5 to 92 watts) • Medical leakage current does not exceed 10µA • 8-Hour burn-in with cycling • Full 3-year warranty
World Wide AC Input Ranges: • AC Input: 110/120/220/240VAC, 47-63Hz • OVP on all 5V outputs • Meets EMI per FCC/VDE B
Industry Standard Packaging: • Hermetically sealed power transistors and ICs • MTFB 200,000+ hours per mil handbook 217D

Single Output

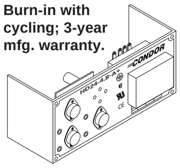
Output	Dimensions Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
5V@1.0A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1018-ND	42.59	41.31	40.46	38.33	ML5-1-OV-A
5V@3.0A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1006-ND	51.32	49.78	48.77	46.19	MB5-3-OV-A
5V@6.0A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1012-ND	65.52	63.56	62.25	58.97	MC5-6-OV-A
12V@1.7A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1002-ND	51.32	49.78	48.77	46.19	MB12-1.7-A
12V@3.4A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1009-ND	65.52	63.56	62.25	58.97	MC12-3.4-A
15V@0.4A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1017-ND	42.59	41.31	40.46	38.33	ML15-O.4-A
15V@1.5A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1003-ND	51.32	49.78	48.77	46.19	MB15-1.5-A
24V@1.2A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1004-ND	51.32	49.78	48.77	46.19	MB24-1.2-A
24V@2.4A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1011-ND	65.52	63.56	62.25	58.97	MC24-2.4-A
24V@4.8A	9.00 x 4.86 x 3.30 (228.60 x 123.44 x 83.82)	271-1015-ND	101.56	98.52	96.48	91.41	MD24-4.8-A
28V@1.0A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1005-ND	51.32	49.78	48.77	46.19	MB28-1-A

Multiple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
Dual Output									
+12/15V@1.0/0.8A	–12/15V@1.0/0.8A	—	6.50 x 4.00 x 2.25 (165.10 x 101.60 x 57.15)	271-1000-ND	57.88	56.15	54.98	52.10	MAA15-0.8-A
+12/15V@1.7/1.5A	–12/15V@1.7/1.5A	—	7.00 x 4.88 x 2.95 (177.80 x 123.95 x 74.93)	271-1008-ND	74.26	72.03	70.54	66.84	MBB15-1.5-A
+12/15V@3.4/3.0A	–12/15V@3.4/3.0A	—	9.38 x 4.88 x 3.30 (238.25 x 123.95 x 83.82)	271-1014-ND	111.38	108.05	105.82	100.25	MCC15-3-A
Triple Output									
+5V@3.0A	+12/15V@1.0/0.8A	–12/15V@1.0/0.8A	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	271-1007-ND	96.10	93.21	91.29	86.49	MBAA40W-A

CONDOR Linear Power Supplies

9288B-ND Power Engineering Manual..................**$2.95**



Burn-in with cycling; 3-year mfg. warranty.

FEATURES:

• Worldwide AC input ranges and safety standards • Industry standard packages • UL/CSA TUV/IEC approved - 68 models to UL1950; CSA C22.2 No. 234 L3; TUV certified to IEC950 • Capacitors have highest CV & ripple current ratings • MTBF 200,000+ hours per Mil Handbk 217D (most units) • All electrolytic caps rated at 105°C • Transformer insulation meets Class F (155°C) • Exceed FCC and CISPR22 Class B conducted emissions • CE marked to LVD

GENERAL SPECIFICATIONS:

• **AC Input:** 100/120/240VAC: +10%, -13%; 215VAC: +12%, -11%; 47 to 63Hz. Tolerance for 230VAC operation is +15%, -10%. Derate output current 10% for 50Hz operation • **DC Output:** Adjustment range ±5% minimum except HA series • **Line Regulation:** ±0.05% for a 10% change • **Load Regulation:** ±0.05% for a 50% load change • **Output Ripple**: 3mV +0.05% of output voltage, peak to peak maximum. All “3-terminal regulator” outputs: 3mV +0.2% peak to peak maximum • **Transient Response:** <50 microseconds for 50% load change • **Short Circuit Protection:** Automatic current limit/foldback • **Overvoltage Protection:** Built-in on all 5V models, set at 6.2V ±0.4V. Other models use optional over voltage protection • **Remote Sensing:** Provided on all models; open sense lead protection built-in (except HA series) • **Stability**: ±0.05% for 24 hours after warmup • **Temperature Rating**: 0°C to 50°C full rated, derated linearly to 40% at 70°C • **Temperature Coefficient:** ±0.01%/°C maximum • **Logic Inhibit and Current-Share:** F Models

International+ Series Single Output

Output	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each					Condor Part No.
				1	10	25	50	100	
5V@1.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2007-ND	34.72	31.71	31.11	29.57	28.05	HA5-1.5-OV-A+
5V@3A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2019-ND	37.03	35.91	35.24	33.44	30.59	HB5-3-OV-A+
5V@6A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2029-ND	59.97	58.21	55.97	53.03	50.08	HC5-6-OV-A+
5V@9A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2052-ND	81.81	79.38	76.72	72.69	68.64	HN5-9-OV-A+
5V@12A	9. 00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2039-ND	92.73	89.98	88.14	82.51	77.93	HD5-12-OV-A+
5V@18A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2047-ND*	135.65	131.77	129.15	121.67	109.95	HE5-18-OV-A+
12V@1.7A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2014-ND	35.98	34.91	34.19	32.39	30.59	HB12-1.7-A+
12V@3.4A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2025-ND	54.51	52.88	50.78	48.12	45.44	HC12-3.4-A+
12V@5.1A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2048-ND	76.35	74.09	71.53	67.77	64.00	HN12-5.1-A+
12V@6.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2034-ND	87.27	84.69	81.90	78.65	73.28	HD12-6.8-A+
12V@10.2A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2043-ND*	119.48	115.93	113.56	107.64	100.67	HE12-10.2-A+
15V@0.9A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2005-ND	32.83	31.71	31.11	29.57	28.05	HA15-0.9-A+
15V@3A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2026-ND	54.51	52.88	50.78	48.12	45.44	HC15-3-A+
15V@4.5A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2049-ND	76.35	74.09	71.53	67.77	64.00	HN15-4.5-A+
15V@6A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2035-ND	87.27	84.69	81.90	78.65	73.28	HD15-6-A+
15V@9A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2044-ND*	119.48	115.93	113.56	107.64	100.67	HE15-9-A+
15V@15A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2054-ND*	184.96	179.89	168.10	160.70	148.03	F15-15-A+
24V@0.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2006-ND	34.72	31.71	31.11	29.57	28.05	HA24-0.5-A+
24V@1.2A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2016-ND	39.13	38.01	35.24	33.44	30.59	HB24-1.2-A+
24V@2.4A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2027-ND	54.51	52.88	50.78	48.12	45.44	HC24-2.4-A+
24V@3.6A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2050-ND	76.35	74.09	71.53	67.77	64.00	HN24-3.6-A+
24V@4.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2036-ND	87.27	84.69	81.90	78.65	73.28	HD24-4.8-A+
24V@7.2A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2045-ND*	119.48	115.93	113.56	107.64	100.67	HE24-7.2-A+
24V@12A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2055-ND*	184.96	179.89	168.10	160.70	148.03	F24-12-A+
28V@1A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2017-ND	37.03	35.91	35.24	33.44	30.59	HB28-1-A+
28V@2A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2028-ND	54.81	52.61	50.78	48.12	45.44	HC28-2-A+
28V@3A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2051-ND	76.35	74.09	71.53	67.77	64.00	HN28-3-A+
28V@4A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2037-ND	87.27	84.69	81.90	78.65	73.28	HD28-4-A+
48V@0.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2018-ND	42.37	40.32	38.36	36.46	32.45	HB48-0.5-A+
48V@3A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2038-ND*	91.68	88.93	87.09	82.51	77.93	HD48-3-A+
48V@4A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2046-ND*	130.40	126.52	123.94	117.47	109.95	HE48-4-A+
48V@6A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2056-ND*	200.07	194.10	190.44	178.50	169.16	F48-6-A+

International+ Series Dual Output

Output 1	Output 2	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each				Condor Part No.
					1	10	25	50	
5V@1.5A	5V@1.5A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2010-ND	54.81	51.85	50.78	48.12	HAA5-1.5-OV-A+
5V@3A	5V@3A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2022-ND	75.09	72.99	70.54	68.11	HBB5-3-OV-A+
5V@2A	+9V to +15V@0.5A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2011-ND	54.51	52.90	50.78	48.12	HAA512-A+
5V@3A	+9V to +15V@1.2A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2023-ND	65.47	63.51	62.20	58.93	HBB512-A+
5V@6A	+9V to +15V@2.5A	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 (3.18)	271-2033-ND*	103.65	100.57	97.47	92.34	HCC512-A+
5V@3A	+18V to +24V@0.8A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2024-ND	66.47	64.53	61.16	57.94	HBB524-A+
+12V@0.4A	-12V@0.4A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2012-ND	40.53	39.59	37.82	35.83	HAD12-0.4-A+
+15V@0.4A	-15V@0.4A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2013-ND	40.53	39.59	37.82	35.83	HAD15-0.4-A+
+12V to +15V@1A/0.8A	-12V to -15V@1A/0.8A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2008-ND	46.90	45.50	44.57	42.21	HAA15-0.8-A+
+12V to +15V@1.7A/1.5A	-12V to -15V@1.7A/1.5A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2021-ND	60.01	58.22	57.01	54.02	HBB15-1.5-A+
+12V to +15V@3.4A/3A	-12V to -15V@3.4A/3A	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 (3.18)	271-2032-ND	96.00	93.14	91.26	85.46	HCC15-3-A+
+12V to +15V@5A	-12V to -15V@5	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2042-ND*	141.32	137.11	134.41	127.30	HDD15-5-A+
+18V to +24V@0.4A/0.6A	-18V to -24V@0.4A/0.6A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2009-ND	45.81	44.44	43.53	41.24	HAA24-0.6-A+

International+ Series Triple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each				Condor Part No.
						1	10	25	50	
5V@2A	+12V to +15V@0.4/0.4A	-12V to -15V@0.4/0.4A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2053-ND†	59.97	58.21	55.97	53.03	HTAA-16W-A+
5V@3A	+12V to +15V@1/0.8A	-12V to -15V@1/0.8A	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	5 (2.27)	271-2020-ND†	82.90	80.45	77.76	73.67	HBAA40W-A+
5V@6A	+12V to +15V@1/0.8A	-12V to -15V@1/0.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2030-ND†	98.19	95.27	93.33	87.43	HCAA60W-A+
5V@6A	+12V to +15V@1.7/1.5A	-12V to -15V@1.7/1.5A	11.00 x 4.87 x 3.28 (279.40 x 123.70 x 83.31)	8 (3.63)	271-2031-ND†	113.31	110.07	102.65	97.26	HCBB75W-A+
5V@9A	+12V to +15V@1.7/1.5A	-12V to -15V@1.7/1.5A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2001-ND†	130.95	127.05	124.45	116.91	CP131-A+
5V@12A	+12V to +15V@1.7/1.5A	-12V to -15V@1.7/1.5A	14.25 x 4.87 x 3.38 (361.95 x 123.70 x 85.85)	11 (4.99)	271-2040-ND†*	147.33	142.94	138.96	131.65	HDBB105W-A+
5V@12A	+12V to +15V@3.4/3A	-12V to -15V@3.4/3A	15.00 x 4.88 x 4.55 (381.00 x 123.95 x 115.57)	12 (5.44)	271-2041-ND†*	169.17	164.22	159.71	151.31	HDCC150W-A+
+5V@6A	+24V@3.5/6A	-5V or -12V@1.2A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2003-ND	140.27	136.06	133.26	126.25	CP379-A+
+5V@6A	+12V@10A	-12V@0.5A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2004-ND	140.27	136.06	133.26	126.25	CP498-A+

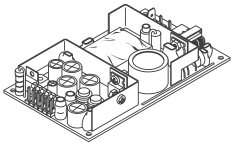
* Requires fan cooling. † No. 3 output usable at -5V, rate at 1/2 of 15V current rating.

CONDOR

Switch Mode DC Power Supplies

The standard version power supply for data processing, control, etc., applications.

General Features: • Cost Effective Power Source • 2 -Year Warranty - 100% burn-in, test and inspection.
Safety Specifications: • Conform with the applicable requirements of EN60950 following the provisions of the Low Voltage Directive 73/23/EEC. Approved to UL1950, CSA22.2 No. 234 Level 3, IEC950, EN60950, VDE 0805 and CSA950
General Specifications: • **AC Input:** 90-264 VAC, 47-63 Hz single phase (GPC41, GPFC110 and GPFC160 Series: 85-264 VAC, 47-63 Hz single phase) • **Overload Protection:** Fully protected against short circuit and output overload • **Temperature Rating:** 0°C to 50°C full rated output power • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B and EN55022 Class B (GPFC110 in compliance to CISPR22, FCC Class B) • **Remote Sense:** GPFC110 and GPFC160 Series only • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reverse output



Wattage	Voltage	Min. Load	Current (A)	Current (B)	I Peak	Dimensions L x W x H Inch (mm)	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
							Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact		1	10	25	50	
GSC 20 Series — Commercial Switcher																	
20	+12	0	1.7A	—	—	2.00” x 3.50” x 0.68” (50.80 x 88.90 x 17.27)	WM17405	WM17405	WM17406	—	—	271-1030-ND	50.40	47.88	45.36	42.84	GSC20-12
20	+15	0	1.4A	—	—		WM17405	WM17405	WM17406	—	—	271-1031-ND	50.40	47.88	45.36	42.84	GSC20-15
20	+24	0	0.85A	—	—		WM17405	WM17405	WM17406	—	—	271-1032-ND	50.40	47.88	45.36	42.84	GSC20-24
20	+28	0	0.7A	—	—		WM17405	WM17405	WM17406	—	—	271-1033-ND	50.40	47.88	45.36	42.84	GSC20-28
20	+5	0	3.8A	—	—		WM17405	WM17405	WM17406	—	—	271-1034-ND	50.40	47.88	45.36	42.84	GSC20-5
Chassis and Cover for GSC20 Series, 3.80” x 2.36” x 1.06” (96.52mm x 59.94mm x 26.92mm)												271-1131-ND	13.10	—	—	—	08-30466-020W
Triple Output - GSC25 Series																	
25	+5.1V +12V -12	0.25A 0 0	2.5A 1.5A 0.2A	—	—	4.25” x 2.5” x .86” (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-1105-ND	53.55	50.88	48.20	45.52	GSC25A
25	+5.1V +24V -12	0.25A 0 0	2.5A 1.0A 0.2A	—	—	4.25” x 2.5” x .86” (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-1106-ND	53.55	50.88	48.20	45.52	GSC25D
Chassis and Cover for GSC25 Series, 5.00” x 2.90” x 1.50” (127.00mm x 73.66mm x 38.10mm)												271-1127-ND	13.10	—	—	—	08-30466-0025
Single Output - GPC41 Series																	
30	5.1V	0.15	6.0A	—	—	4.00” x 2.00” x 1.5” (101.60 x 50.80 x 38.10)	A19950	A19952	A19990	—	—	271-1124-ND	52.50	49.88	47.25	44.63	GPC41-5
40	12V	0.03	3.3A	—	—		A19950	A19952	A19990	—	—	271-1125-ND	52.50	49.88	47.25	44.63	GPC41-12
40	24V	0.01	1.7A	—	—		A19950	A19952	A19990	—	—	271-1126-ND	52.50	49.88	47.25	44.63	GPC41-24
Cover for GPC41 Series, 3.32” x 1.98” x 1.66” (84.33mm x 50.29mm x 42.16mm)												271-1129-ND	13.10	—	—	—	08-30466-1041
Single Output - GLC50 Series																	
50	3.3V	0	8A	—	—	4.25” x 2.5” x 1.10” (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1109-ND	56.17	54.87	52.87	49.88	GLC50-3.3
50	5.1V	0	8A	—	—		WM2123	WM2126	WM17403	—	—	271-1110-ND	56.17	54.87	52.87	49.88	GLC50-5
50	12V	0	4.2A	—	—		WM2123	WM2126	WM17403	—	—	271-1111-ND	56.17	54.87	52.87	49.88	GLC50-12
50	24V	0	2.1A	—	—		WM2123	WM2126	WM17403	—	—	271-1112-ND	56.17	54.87	52.87	49.88	GLC50-24
Triple Output - GLC50 Series																	
50	+5.1V +12V -12V	0.8A	4A 2.5A 0.2A	—	—	4.25” x 2.5” x 1.10” (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1107-ND	56.17	54.87	52.87	49.88	GLC50A
50	+5.1V +24V -12V	0.8A	4A 1.5A 0.2A	—	—	4.25” x 2.5” x 1.10” (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1108-ND	56.17	54.87	52.87	49.88	GLC50D
Chassis and Cover for GLC50 Series, 5.00” x 2.90” x 1.50” (127.00mm x 73.66mm x 38.1mm)												271-1130-ND	13.10	—	—	—	08-30466-0050
GLC65 Series																	
65	+5.1V	0	11A	—	—	5.00” x 3.00” x 1.00” (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	271-2171-ND	73.76	70.08	66.40	62.70	GLC65-5
65	+12V	0	5.5A	—	—		A19951	A19954	A19990	—	—	271-2166-ND	73.76	70.08	66.40	62.70	GLC65-12
65	+15V	0	4.3A	—	—		A19951	A19954	A19990	—	—	271-2167-ND	73.76	70.08	66.40	62.70	GLC65-15
65	+24V	0	2.7A	—	—		A19951	A19954	A19990	—	—	271-2168-ND	73.76	70.08	66.40	62.70	GLC65-24
65	+28V	0	2.3A	—	—		A19951	A19954	A19990	—	—	271-2169-ND	73.76	70.08	66.40	62.70	GLC65-28
65	+48V	0	1.35A	—	—		A19951	A19954	A19990	—	—	271-2170-ND	73.76	70.08	66.40	62.70	GLC65-48
65	+5.0V +12V -12V	—	7A 3A 2.5A	—	—	5.00” x 3.00” x 1.25” (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2210-ND	72.07	68.47	65.04	62.48	GLC65A
65	+5.0V +24V -12V	—	7A 1.5A 2.5A	—	—	5.00” x 3.00” x 1.25” (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2211-ND	72.07	68.47	65.04	62.48	GLC65D
65	+5.0V +24V +12V	—	7A 1.5A 2.5A	—	—	5.00” x 3.00” x 1.25” (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2212-ND	72.07	68.47	65.04	62.48	GLC65E
65	+5.0V +3.3V 12V	—	5A 4A 2.5A	—	—	5.00” x 3.00” x 1.25” (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2213-ND	72.07	68.47	65.04	62.48	GLC65G
65	+3.3V +5.0V +12V	—	5A 4A 2.5A	—	—	5.00” x 3.00” x 1.25” (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2214-ND	72.07	68.47	65.04	62.48	GLC65H
Single Output - GLC75 Series (See Amperage Rating Notes Below)																	
75	5.1V	0	14.7A	18A	18A	5.75” x 3.40” x 1.56” (146.05 x 86.36 x 39.70)	WM2125	WM2129	WM17403	—	—	271-1113-ND	72.26	68.65	65.04	61.82	GLC75-5
75	12V	0	6.3A	9.1A	9.1A		WM2125	WM2129	WM17403	—	—	271-1114-ND	72.26	68.65	65.04	61.82	GLC75-12
75	24V	0	3.1A	4.6A	4.6A		WM2125	WM2129	WM17403	—	—	271-1115-ND	72.26	68.65	65.04	61.82	GLC75-24
Chassis and Cover for GLC75 Single Output Series, 5.90” x 3.75” x 1.98” (149.86mm x 95.25mm x 50.29mm)												271-1132-ND	13.31	—	—	—	08-30466-2075
Quad Output - GLC75 Series (See Amperage Rating Notes Below)																	
75	+5.1V +12V -12V 12V*	1A 0.5A — —	8A 2.5A 1A 2.5A	10A 3A 1A 3A	12A 4A 1.2A 4A	7.00” x 4.25” x 1.30” (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-1116-ND	73.96	70.27	66.57	62.87	GLC75A
75	+5.1V +24V -12V 12V*	1A 0.5A — —	8A 2.5A 1A 2.5A	10A 3A 1A 3A	12A 4A 1.2A 4A	7.00” x 4.25” x 1.30” (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-1117-ND	73.96	70.27	66.57	62.87	GLC75D

*Floating fourth output can be referenced as either positive or negative. **Amperage Rating Notes for GLC75 and GLC110 Series:** • **Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits.

(Continued)

CONDOR Switch Mode DC Power Supplies *(Cont.)*

Watt-age	Volt-age	Min. Load	Current (A)	Current (B)	I Peak	Dimensions L x W x H Inch (mm)	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
							Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact		1	10	25	50	
Single Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	+12V	0	6.3A	9.1A	9.5A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2203-ND	73.63	69.94	66.27	62.58	GLC110-12
110	+15V	0	5A	7.3A	7.7A		A19953	A28761	A19990	—	—	271-2204-ND	73.63	69.94	66.27	62.58	GLC110-15
110	+24V	0	3.2A	4.6A	5A		A19953	A28761	A19990	—	—	271-2207-ND	73.63	69.94	66.27	62.58	GLC110-24
Double Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	+12V -12V	0 0	6.3A 2.5A	9.1A 3A	9.5A 4A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2205-ND	79.17	75.22	71.26	67.30	GLC110-212
110	+15V -15V	1A 0	6.3A 2.5A	7.3A 3A	7.7A 4A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2206-ND	79.17	75.22	71.26	67.30	GLC110-215
110	+24V +5V	1A 0	3.2A 1.5A	4.6A 2A	5A 2.5A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2208-ND	79.17	75.22	71.26	67.30	GLC110-524
Chassis and Cover for GLC75 and GLC110 Multiple Output Series, 7.30" x 4.50" x 2.10" (185.42mm x 114.30mm x 53.34mm)												271-1137-ND	13.31	—	—	—	08-30466-2175
Single Output - GPFC110 Series																	
110	+5.1V	—	12A	—	20A	6.3" x 3.75" x 1.62" (160.02 x 95.25 x 41.15)	A19953	A19957	A19990	—	—	271-2180-ND	100.53	95.50	90.48	76.17	GPFC110-5
110	+12V	—	6.7A	—	10A		A19953	A19957	A19990	—	—	271-2175-ND	100.53	95.50	90.48	76.17	GPFC110-12
110	+15V	—	5.3A	—	8A		A19953	A19957	A19990	—	—	271-2176-ND	100.53	95.50	90.48	76.17	GPFC110-15
110	+24V	—	3.4A	—	5A		A19953	A19957	A19990	—	—	271-2177-ND	100.53	95.50	90.48	76.17	GPFC110-24
110	+28V	—	2.9A	—	4.3A		A19953	A19957	A19990	—	—	271-2178-ND	100.53	95.50	90.48	76.17	GPFC110-28
110	+48V	—	1.7A	—	2.5A		A19953	A19957	A19990	—	—	271-2179-ND	100.53	95.50	90.48	76.17	GPFC110-48
Cover for GPFC110 Series, 6.30" x 3.75" x 1.75" (160.02mm x 95.25mm x 44.45mm)												271-1133-ND	13.31	—	—	—	08-30466-2110
GPFC125 Series ‡																	
125	+5V +12V 12V† -12V	2A+V4 Current	9A 4A 2.5A 0.3A	16A 7A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17400	WM17403	—	—	271-2215-ND	177.58	168.70	159.83	150.94	GPFC125A
125	+5V +12V 12V† -5V	2A+V4 Current	9A 4A 2.5A 0.3A	16A 7A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17400	WM17403	—	—	271-2216-ND	177.58	168.70	159.83	150.94	GPFC125B
125	+5V +24V 12V† -12V	2A+V4 Current	9A 3A 2.5A 0.3A	16A 4.5A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17400	WM17403	—	—	271-2217-ND	177.58	168.70	159.83	150.94	GPFC125D
125	+5V +3.3V 12V† -12V	2A+V4 Current	9A 7A 2.5A 0.3A	16A 10A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17400	WM17403	—	—	271-2218-ND	177.58	168.70	159.83	150.94	GPFC125G
125	+3.3V +5V 12V† -12V	2A+V4 Current	9A 4A 2.5A 0.3A	16A 7A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17400	WM17403	—	—	271-2219-ND	177.58	168.70	159.83	150.94	GPFC125H
Cover for GPFC125												271-2220-ND	13.31	—	—	—	08-30466-2125
Single Output - GPFC160 Series																	
160	5.1V	—	26A	—	—	7.00" x 4.50" x 1.69" (177.80 x 114.30 x 42.93)	WM2125	WM17400	WM17403	WM2013	WM2200	271-1118-ND	181.95	172.86	163.76	154.67	GPFC160-5
160	12V	—	11.7A	—	—		WM2125	WM17400	WM17403	WM2013	WM2200	271-1119-ND	181.95	172.86	163.76	154.67	GPFC160-12
160	24V	—	5.8A	—	—		WM2125	WM17400	WM17403	WM2013	WM2200	271-1120-ND	181.95	172.86	163.76	154.67	GPFC160-24
Cover with Fan for GPFC160 Series, 7.00" x 4.50" x 1.75" (177.80mm x 114.30mm x 44.45mm)												271-1134-ND	18.46	—	—	—	09-160CF

Amperage Rating Notes for GLC75 and GLC110 Series: • **Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits.

† Output 3 is isolated. Can be connected as + or - output. ‡ Peak rating or continuous rating with 150 LFM air cooling.

ARTESYN TECHNOLOGIES

Universal Input Switch Mode Power Supplies

NLP65 Series—Single, Dual, and Triple Outputs 65 to 75 Watt AC/DC

Specifications: • **Dimensions (L x W xH):** 5" x 3" x 1.26" (127.00 x 76.20 x 32.00) • **Mating Connectors:** Housing Input: WM2102-ND; Housing Output: WM2104-ND; Contacts: WM2302-ND • **Input Voltage:** 85 to 264VAC

Output		Output		Output				
Voltage 1	Current Min./Max.	Voltage 2	Current Min./Max.	Voltage 3	Current Min./Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
+5V	0.2A/10.0A	—	—	—	—	393-1027-ND	67.98	NLP65-7605
+12V	0.1A/5.4A	—	—	—	—	393-1028-ND	67.98	NLP65-7612
+24V	0.1A/2.7A	—	—	—	—	393-1029-ND	67.98	NLP65-7624
+5V	0.2A/7.5A	+12V	0A/2.5A	-12V	0A/0.65A	393-1030-ND	67.98	NLP65-7608
+5V	0.2A/7.5A	+15V	0A/2.2A	-15V	0A/0.65A	393-1031-ND	67.98	NLP65-7610
+5V	0.2A/7.0A	+12V	0A/2.5A	—	—	393-1032-ND	67.98	NLP65-7629

NLP110 Series—Single and Triple Outputs 75-110 Watt AC/DC

Specifications: • **Dimensions (L x W x H):** 6.5" x 3.0" x 1.26" (165.10 x 76.20 x 32.00) • **Mating Connectors:** Housing Input: WM2101-ND; Housing Output: WM2132-ND; Contacts: WM2313-ND • **Input Voltage:** 90 to 264VAC • Harmonic Corrected

Output		Output		Output				
Voltage 1	Current Min./Max.	Voltage 2	Current Min./Max.	Voltage 3	Current Min./Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
+5V	0.5A/15A	—	—	—	—	393-1033-ND	113.30	NLP110-9605
+12V	0.3A/6.4A	—	—	—	—	393-1034-ND	113.30	NLP110-9612
+48V	0A/1.6A	—	—	—	—	393-1035-ND	113.30	NLP110-9617
+24V	0.2A/3.2A	—	—	—	—	393-1036-ND	113.50	NLP110-9624
+5V	0.5A/13A	+3.3V	0.2A/13A	+12V	0A/0.65A	393-1037-ND	113.30	NLP110-9693
+3.3V	0.5A/13A	+2.5V	0.1A/13A	+12V	0A/0.65A	393-1038-ND	113.30	NLP110-9694
+12V	0.2A/6.5A	+3.3V	0.5A/13A	12V	0A/0.65A	393-1039-ND	113.30	NLP110-9695
+12V	0.2A/6.5A	+5V	0.2A/13A	12V	0A/0.65A	393-1040-ND	113.30	NLP110-9608

NLP150L Series—
Single and Triple Outputs 110-150 Watt AC/DC

Specifications:

• **Dimensions (L x W x H):** 6.8" x 3.8" x 1.26" (172.72 x 96.52 x 32.00) • **Input Voltage:** 90 to 264VAC • Harmonic Corrected

Output		Output		Output				
Voltage 1	Current Min./Max.	Voltage 2	Current Min./Max.	Voltage 3	Current Min./Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
3.3V	1.5A/22A	—	—	—	—	393-1042-ND	123.00	NLP150L-96S3
5.1	1.5A/22A	—	—	—	—	393-1043-ND	123.00	NLP150L-96S5
12V	0.6A/9.2A	+5.1V	0.5A/6A	+24V	0A/2.0A	393-1044-ND	123.00	NLP150L-96T658

NLP150L Series—
Quad Output 110-150 Watt AC/DC

Specifications:

• **Dimensions (L x W x H):** 7.8" x 3.8" x 1.26" (198.12 x 96.52 x 32.00) • **Input Voltage:** 90 to 264VAC • Harmonic Corrected

Output		Output		Output		Output				
Volt. 1	Current Min./Max.	Volt. 2	Current Min./Max.	Volt. 3	Current Min./Max.	Volt. 4	Current Min./Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
5.1V	1.5A/20A	+3.3V	0.5A/10A	+12V	0A/0.65A	12V iso	0A/2.0A	393-1041-ND	123.00	NLP150L-96Q5366

ARTESYN TECHNOLOGIES

DC-DC Converters

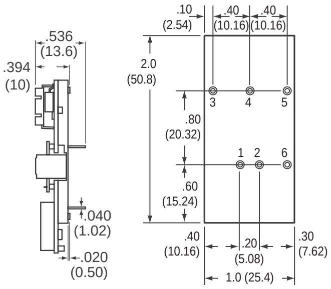
CXA10 Series—Single and Dual Output

10 Watt

Delivers single and dual output voltages covering 3.3V, 5V, 12V, ±5V, and ±12V.

Features:

- Fully compliant with ETS 300 386-1
- Approved to EN60950, UL1950, CSA C22.2 No. 950
- High demonstrated reliability with conservative component deratings

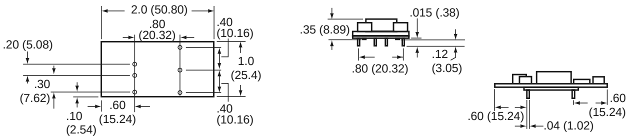


Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
18-75VDC	3.3V	2.0A	393-1018-ND	43.60	CXA10-48S3V3
18-75VDC	5.0V	2.0A	393-1019-ND	43.60	CXA10-48S05
18-75VDC	12V	0.83A	393-1020-ND	43.60	CXA10-48S12
18-75VDC	±5V	1.0A	393-1021-ND	47.96	CXA10-48D05
18-75VDC	±12V	0.41A	393-1022-ND	47.96	CXA10-48D12

CXE15 Series—Single Output 10.8-15 Watt High Efficiency

A new high efficiency open frame isolated 15 Watt converter in an industry standard footprint.

Features: • No minimum load required • Remote on/off control • Overvoltage protection • 90% to 110% output trim



Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
33-75VDC	1.8V	6A	393-1023-ND	47.20	CXE15-48S1V8
33-75VDC	2.5V	6A	393-1024-ND	47.20	CXE15-48S2V5
33-75VDC	3.3V	4.5A	393-1025-ND	47.20	CXE15-48S3V3
33-75VDC	5.0V	3A	393-1026-ND	47.20	CXE15-48S05

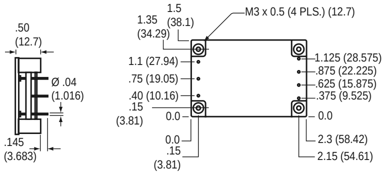
EXQ60D Series—Dual Positive Output

60 Watt High Efficiency

A new high efficiency open frame isolated 60 Watt converter series.

Features:

- Two positive outputs
- Operating baseplate temperature of -40°C to +100°C
- No minimum load
- Complies with ETS 300 019-1-3/2-3



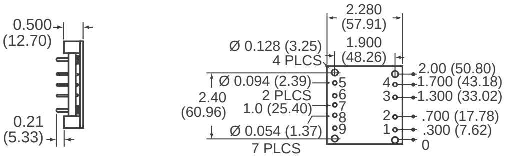
Input Voltage	Output Voltage	Output Current	Digi-Key Part No.	Price Each	Artesyn Part No.
33-75VDC	5V/3.3V	12.0A/15.0A	393-1045-ND	142.00	EXQ60-48D05-3V3
33-75VDC	3.3V/2.5V	12.0A/16.0A	393-1046-ND	142.00	EXQ60-48D3V3-2V5

EXB250 Series—Single Output

108 to 165 Watt High Efficiency

A new high efficiency open frame isolated 165 Watt converter in an industry standard half-brick footprint.

Features: • No minimum load required • Remote on/off control • Overvoltage protection • 90% to 110% output trim



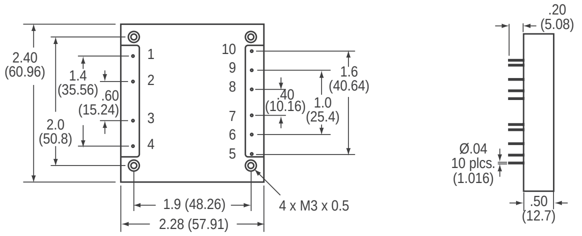
Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
33-75VDC	1.8V	60A	393-1047-ND	196.00	EXB250-48S1V8
33-75VDC	2.5V	60A	393-1048-ND	196.00	EXB250-48S2V5
33-75VDC	3.3V	50A	393-1049-ND	196.00	EXB250-48S3V3

BXB75 Series—Dual Output 60-75 Watt Wide Input

Industry standard footprint (2.40 x 2.28 x 0.50 inches).

Features:

• Adjustable output voltage • Undervoltage lockout (UVLO) • Flexible dual output unit • UL, VDE and CSA safety approvals



Input Voltage	Output Voltage	Output Current Min. Max	Digi-Key Part No.	Price Each	Artesyn Part No.
36-75VDC	5V/3.3V	1A/15A	393-1006-ND	174.40	BXB75-48D05-3V3FL
36-75VDC	3.3V/2.5V	1A/15A	393-1007-ND	174.40	BXB75-48D3V3-2V5FL

BXB75 Series—Single Output 50-75 Watt Wide Input Efficiency

Industry standard footprint (2.40 x 2.28 x 0.50 inches.)

Features: • Adjustable output voltage • Separate case ground pin • No minimum load required • UL, VDE and CSA safety approvals

BXB100 Series—Single Output 66-100 Watt Wide Input

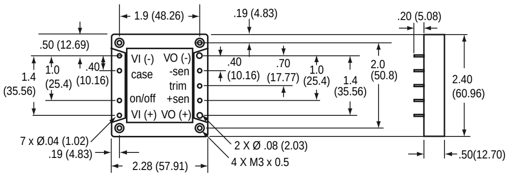
Industry standard footprint (2.40 x 2.28 x 0.50 inches.)

Features: • Adjustable output voltage • Separate case ground pin • No minimum load required • UL, VDE and CSA safety approvals

BXB150 Series—Single Output 100-150 Watt Wide Input

Industry standard footprint (2.40 x 2.28 x 0.50 inches.)

Features: • Adjustable output voltage • Separate case ground pin • No minimum load required • UL, VDE and CSA safety approvals



Input Voltage	Output Voltage	Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
36-75VDC	5V	15A	393-1000-ND	152.60	BXB75-48S05FLT
36-75VDC	3.3V	15A	393-1001-ND	152.60	BXB75-48S3V3FLT
36-75VDC	12V	6.25A	393-1002-ND	152.60	BXB75-48S12FLT
18-36VDC	3.3V	15A	393-1003-ND	163.52	BXB75-24S3V3FLT
18-36VDC	5V	15A	393-1004-ND	163.52	BXB75-24S05FLT
18-36VDC	12V	6.25A	393-1005-ND	163.52	BXB75-24S12FLT
18-36VDC	3.3V	20A	393-1008-ND	163.52	BXB100-24S3V3FLT
18-36VDC	5V	20A	393-1009-ND	163.50	BXB100-24S05FLT
18-36VDC	12V	8.33A	393-1010-ND	163.50	BXB100-24S12FLT
36-75VDC	3.3V	20A	393-1011-ND	163.50	BXB100-48S3V3FLT
36-75VDC	5V	20A	393-1012-ND	163.50	BXB100-48S05FLT
36-75VDC	12V	8.33A	393-1013-ND	163.50	BXB100-48S12FLT
18-36VDC	3.3V	30A	393-1014-ND	174.40	BXB150-24S3V3FLT
36-75VDC	3.3V	30A	393-1015-ND	174.40	BXB150-48S3V3FLT
36-75VDC	5V	30A	393-1016-ND	174.40	BXB150-48S05FLT
36-75VDC	12V	12.5A	393-1017-ND	174.40	BXB150-48S12FLT

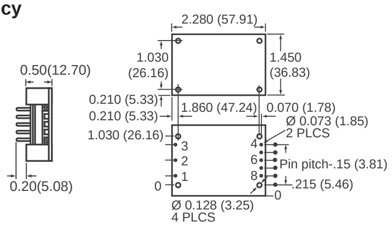
Series—Single Output

54 to 82.5 Watt High Efficiency

A new ultra-high efficiency, open frame, isolated converter series in an industry standard quarter-brick footprint that provides up to 82.5 watts of output power.

Features:

- No minimum load required
- Remote on/off control
- Overvoltage protection
- 90% to 110% output trim



Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
33-75VDC	1.8V	30A	393-1050-ND	128.40	EXQ125-48S1V8
33-75VDC	2.5V	30A	393-1051-ND	128.40	EXQ125-48S2V5
33-75VDC	3.3V	25A	393-1052-ND	128.40	EXQ125-48S3V3

POWER-ONE® DC-DC Converters

Single, Dual and Triple Output

9274B-ND Power One DC-DC Reference Guide........... **$2.05**

Fig. 1

DSP1N5S Series: • Up to 1 watt unregulated output power • Single in-line package • Four terminal operation • Efficiencies to 75% • 350KHz fixed frequency operation • 700V isolation • -25°C to +85°C operation

Output filtering is required for operation 10µf min.

1. +Input
2. –Input
3. -Out
4. +Out

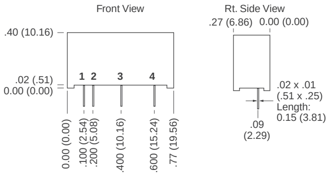


Fig. 2

DFA6UxxS Series: • Up to 6 watts of output power • Overcurrent protection • Efficiencies to 83% • Low input to output capacitance • 700V Isolation, input to output • Ultra-wide input range (3:1)

1. +Input
2. – Input
3. +Out
4. –Out

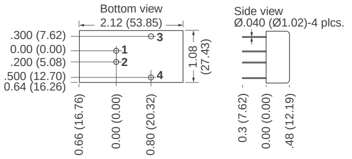


Fig. 3

DFC6U5S Series: • Ultra-wide 3.5-16 volt input range • Input filtered • 6 watts of output power • Efficiencies to 77% • 700V Isolation • Low input to output capacitance and Ultra-wide input range (4:1)

1. +Input
2. –Input
3. +Out
4. –Out

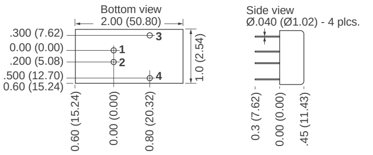


Fig. 4

DFC10E Series: • High power density, up to 11 watts per cubic inch (0.67 watts per cm^3) • Efficiencies to 83% (lower for 3.3V) • Low input to output capacitance • 700V Isolation (1544V for 48V converters) • Continuous overcurrent protection • Five-sided shielded copper case • Extended input range (2:1) **DFC10U Series:** • High power density, up to 11 watts per cubic inch • Efficiencies to 79% • Fully isolated, fully filtered design • Greater than 700V Isolation • Overcurrent protection • Five-sided shielded copper case • Ultra-wide range input (4:1)

DFC10E Series

1. +Input
2. –Input
3. +Out
4. No Pin
5. –Out

DFC10U Series

1. +Input
2. –Input
3. +Out
4. Common
5. –Out

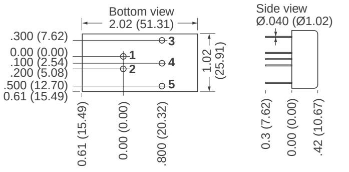


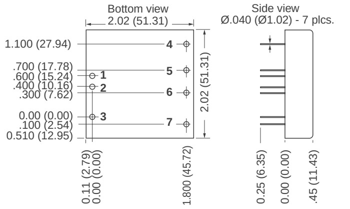
Fig. 5

DFA20ExxS Series: • Remote On/Off and Trim • Overcurrent protection and thermal shutdown • Efficiencies to 83% • 700V Isolation up to 1544V on 48V converters • Power density up to 11 watts per cubic inch • Five-sided shielded case • Extended range input (2:1)

DFA20ExxD Series: • Remote On/Off and Trim • Water washable case • Overcurrent protection and thermal shutdown • Efficiencies to 85% • Low input to output capacitance • 700V to 1544V isolation • 5-sided shielded case • Extended range input (2:1)

DGP12U5S Series: • Up to 12 watts output power • Five-sided shielded isolated copper case • Ultra-wide 3.5 to 16 volt input range • Efficiencies to 82% • Fully isolated and filtered • 700V isolation • Remote On/Off and Trim

DGP12U5D Series: • Remote On/Off and Trim • Five-sided shielded copper case • Typical efficiencies up to 78% • Fully isolated and filtered • 700V isolation • Ultra-wide range input (4:1)



DFA20ExxS and DGP12U5S Series

1. +Input 3. On/Off 5. +Output 7. Trim
2. –Input 4. No Pin 6. –Output

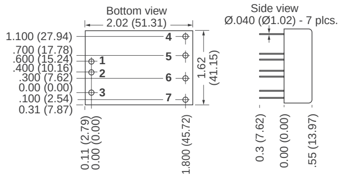
DFA20ExxD and DGP12U5D Series

1. +Input 3. On/Off 5. Common 7. Trim
2. –Input 4. +Output 6. –Output

Fig. 6

DFC15U48S Series: • High power density, up to 11 watts per cubic inch (0.67 watts per cm^3) • Efficiencies to 83% (lower for 3.3V) • Low input to output capacitance • 700V Isolation (1544V for 48V converters) • Continuous overcurrent protection • 3.3 Volt output available • Five-sided shielded copper case • Extended input range (2:1)

DFC15U48D Series: • Remote On/Off and Trim • Overcurrent and overtemperature protected • Water washable case • Efficiencies to 82% • 1544V Isolation • Ultra-wide range input (>3:1)



DFC15U48S Series

1. +Input 5. +Output
2. –Input 6. –Output
3. On/Off 7. Trim
4. No Pin

DFC15U48D Series

1. +Input 5. Common
2. –Input 6. –Output
3. On/Off 7. Trim
4. +Output

Fig. 7

LES Series - 15W Single Output: Up to 1500 VDC isolation • Short circuit and over temp. protection • Six-sided shielding • Available with optional enable and voltage trim pins • Water washable • Remote shutdown • 24V and 48V inputs • Industry standard pkg. • ±10% minimum amperage output current • ±10% voltage trim range

1. +V In
2. –V In
3. No Pin
4. +V Out
5. No Pin
6. –V Out

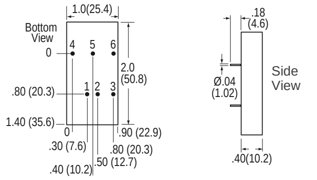


Fig. 8

IES Series - 13-20W Single Output: Ultra high efficiency • 1500V isolation • Output voltages of 5V and below and up to 20W output power • Remote shutdown • On board functions include over volt. protection (OVP) and under voltage lockout (UVLO) • 24V and 48V input • Output current 10% min. • Open frame pkg or 6-sided case • Water washable

1. +V In
2. –V In
3. No Pin
4. Shutdown
5. +V Out
6. –V Out
7. Trim
8. No Pin
9. No Pin

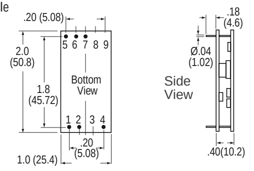


Fig. 9

HAS Series - 20-30W Single Output: • Up to 30W of output power • ±10% output volt. trim range • Remote shutdown • Advanced open frame technology • Water washable • UL 1950, CSA22.2-950, EN60950 safety (consult factory for conditions) case temp., operating range -40 to 100°C

1. –V In
2. Case
3. On/Off
4. +V In
5. –V Out
6. –Sense
7. Trim
8. + Sense
9. +V Out

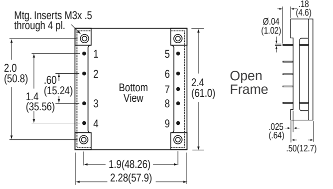


Fig. 10

HBS Series - 33W-150W Single Output: • High efficiency • Open frame design • Water washable • Remote shutdown • ±10% output voltage trim range • ±10% minimum output current • Case temperature, operating range -40°C to +100°C • UL1950, CSA 22.2-950, EN60950 safety (consult factory for conditions) • Current can be drawn from any single output to its maximum rated value, or from both to a combined total of 15A

1. –V In
2. Case
3. On/Off
4. +V In
5. –V Out
6. –Sense
7. Trim
8. +Sense
9. +V Out

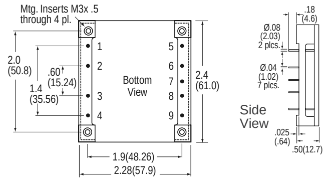


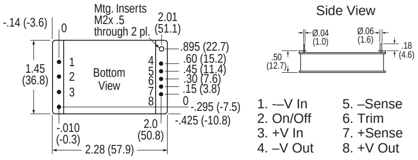
Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
Single Output									
1	5	0.15 A	4.5-5.5	179-1068-ND	16.50	16.00	15.50	14.25	DSP1N5S5
	7	0.14 A	4.5-5.5	179-1069-ND	16.50	16.00	15.50	14.25	DSP1N5S7
	12	0.08 A	4.5-5.5	179-1070-ND	16.50	16.00	15.50	14.25	DSP1N5S12
	14	0.07 A	4.5-5.5	179-1071-ND	16.50	16.00	15.50	14.25	DSP1N5S14
	15	0.065 A	4.5-5.5	179-1072-ND	16.50	16.00	15.50	14.25	DSP1N5S15
	17	0.06 A	4.5-5.5	179-1073-ND	16.50	16.00	15.50	14.25	DSP1N5S17
2	5	1 A	9-27	179-1005-ND	73.25	70.25	67.25	64.75	DFA6U12S5
	12	0.5 A	9-27	179-1006-ND	73.25	70.25	67.25	64.75	DFA6U12S12
	15	0.4 A	9-27	179-1007-ND	73.25	70.25	67.25	64.75	DFA6U12S15
	5	1 A	20-60	179-1008-ND	73.25	70.25	67.25	64.75	DFA6U48S5
	12	0.5 A	20-60	179-1009-ND	73.25	70.25	67.25	64.75	DFA6U48S12
3	5	1.2 A	3.5-16	179-1001-ND	64.00	61.50	58.75	56.75	DFC6U5S5
	5.2	1.2 A	3.5-16	179-1002-ND	64.00	61.50	58.75	56.75	DFC6U5S5.2
	12	0.5 A	3.5-16	179-1003-ND	64.00	61.50	58.75	56.75	DFC6U5S12
	15	0.4 A	3.5-16	179-1004-ND	64.00	61.50	58.75	56.75	DFC6U5S15
4	5	2 A	9-18	179-1011-ND	71.50	70.00	68.25	66.75	DFC10E12S5
	12	0.9 A	9-18	179-1014-ND	71.40	69.83	68.25	66.68	DFC10E12S12
	15	0.7 A	9-18	179-1015-ND	71.40	69.83	68.25	66.68	DFC10E12S15
	5	2 A	18-36	179-1012-ND	71.50	70.00	68.25	66.75	DFC10E24S5
	12	0.9 A	18-36	179-1016-ND	71.50	70.00	68.25	66.75	DFC10E24S12
	15	0.7 A	18-36	179-1017-ND	71.50	70.00	68.25	66.75	DFC10E24S15
	5	2 A	36-72	179-1013-ND	71.50	70.00	68.25	66.75	DFC10E48S5
5	5	4 A	9-18	179-1033-ND	105.50	101.50	96.00	91.00	DFA20E12S5
	12	1.7 A	9-18	179-1034-ND	105.50	101.50	96.00	91.00	DFA20E12S12
	15	1.4 A	9-18	179-1035-ND	105.50	101.50	96.00	91.00	DFA20E12S15
	5	4 A	18-36	179-1037-ND	105.50	101.50	96.00	91.00	DFA20E24S5
	15	1.4 A	18-36	179-1039-ND	105.50	101.50	96.00	91.00	DFA20E24S15
	5	2 A	3-16	179-1053-ND	85.50	82.00	78.75	75.50	DGP12U5S5
	12	1 A	3-16	179-1054-ND	85.50	82.00	78.75	75.50	DGP12U5S12

Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
6	5	3 A	20-60	179-1027-ND	97.75	93.50	89.76	86.25	DFC15U48S5
7	2.5	3 A	18-36	179-2120-ND	63.00	59.85	56.70	53.55	LES008YD
	3.3	3 A	18-36	179-2122-ND	66.00	62.75	59.50	56.01	LES010YE
	5	3 A	18-36	179-2124-ND	66.00	62.75	59.50	56.01	LES015YG
	12	1.25 A	18-36	179-2126-ND	66.00	62.75	59.50	56.01	LES015YH
	15	1 A	18-36	179-2128-ND	66.00	62.75	59.50	56.01	LES015YJ
	5	3 A	36-75	179-2130-ND	67.00	63.75	60.50	57.25	LES015ZG-3
	5	3 A	36-75	179-2131-ND	67.00	63.75	60.50	57.25	LES015ZG-3N
	12	1.25 A	36-75	179-2132-ND	67.00	63.75	60.50	57.25	LES015ZH-3
8	5	4 A	18-36	179-2134-ND	72.50	69.25	65.00	62.01	IES020YG-A
	3.3	4 A	36-72	179-2135-ND	72.50	69.25	65.00	62.01	IES013ZE-A
	5	4 A	36-72	179-2136-ND	72.50	69.25	65.00	62.01	IES020ZG-A
9	5	6 A	18-36	179-2137-ND	83.00	80.50	78.25	74.75	HAS030YG-AN
	12	2.5 A	18-36	179-2138-ND	83.00	80.50	78.25	74.75	HAS030YH-AN
	5	10 A	18-36	179-2139-ND	100.25	97.75	94.51	88.75	HAS050YG-AN
	12	4.2	18-36	179-2140-ND	100.25	97.75	94.51	88.75	HAS050YH-AN
10	15	3.3 A	18-36	179-2141-ND	117.50	114.00	110.50	108.26	HBS050YJ-AN
	3.3	15 A	34-75	179-2143-ND	117.50	114.00	110.50	108.26	HBS050ZE-ANT
	5	10 A	34-75	179-2144-ND	117.50	114.00	110.50	108.26	HBS050ZG-ANT
	5	15 A	18-36	179-2145-ND	129.00	125.50	121.00	120.75	HBS075YG-AN
	12	6.25 A	18-36	179-2146-ND	129.00	125.50	121.00	120.75	HBS075YH-AN
	5	15 A	34-75	179-2149-ND	129.00	125.50	121.00	120.75	HBS075ZG-ANT
	5	20 A	18-36	179-2150-ND	133.50	131.25	129.01	126.50	HBS100YG-ANT
	12	8.30 A	18-36	179-2151-ND	133.50	131.25	129.01	126.50	HBS100YH-AN
	3.3	30 A	34-75	179-2153-ND	133.50	131.25	129.01	126.50	HBS100ZE-ANT
	5	20 A	34-75	179-2154-ND	133.50	131.25	129.01	126.50	HBS100ZG-ANT
	12	8.30 A	34-75	179-2155-ND	133.50	131.25	129.01	126.50	HBS100ZH-ANT
	5	30 A	18-36	179-2156-ND	160.00	157.75	154.26	149.51	HBS150YG-AN
	12	12.50 A	18-36	179-2157-ND	160.00	157.75	154.26	149.51	HBS150YH-AN

(Continued)

Fig. 11

QES Series - 66W Single Output: • Industry standard, quarter-brick package • Optional trim and enable • Case temp. operating range -40 to +100°C • Wide range input voltage • Open-frame packaging with planar magnetics and high efficiency topology • Units are water-washable and compatible with commercial spray or immersion • 1500V isolation



1. –V In
2. On/Off
3. +V In
4. –V Out
5. –Sense
6. Trim
7. +Sense
8. +V Out

Fig. 12

QBS Series - 120W Single Output: • Quarter-brick footprint • High power density up to 120W • Open-frame packaging • 100°C baseplate operation • Outputs from 2.5V to 15V • 1500V isolation • Water washable • Positive or negative enable logic • Voltage trim range ±10 • Switching frequency at 400kHz • UL, CUL, TUV safety

1. –V In
2. On/Off
3. +V In
4. –V Out
5. –Sense
6. Trim
7. +Sense
8. +V Out

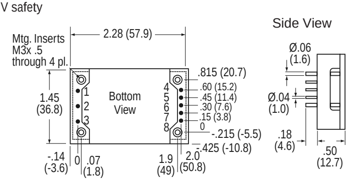


Fig. 13

SIP302/305 Series - 15W-20W Single Output: • Non-isolated step-up • High efficiency • Excellent transient response • Perfect tool to augment 3.3V circuit boards with 5V • Open-frame construction • Vertical mounting • Water washable

SIP302	SIP305
1. +V Out	1. +V Out
2. +V Out	2. +V Out
3. No Pin	3. +V Out
4. + V Out	4. –V Out
5. Ground	5. –V Out
6. Ground	6. –V In
7. +V In	7. –V In
8. +V In	8. +V In
9. No Pin	9. +V In
10. Trim	10. +V In
11. Remote	11. +V In

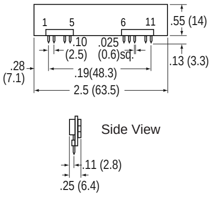
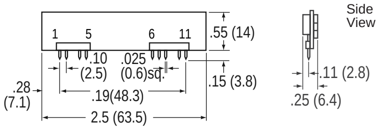


Fig. 14

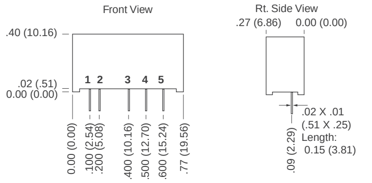
SIP/SIE 500 Series - Single Output: • Non-isolated • High efficiency topology • Excellent transient response • Voltage range input 5 VDC nominal • Sense and power OK • Surface mount construction • Voltage trim • Water washable • Vertical mounting • Negative logic remote shutdown



1. +V Out
2. +V Out
3. Sense
4. +V Out
5. Ground
6. Ground
7. +V In
8. +V In
9. Power OK
10. Trim
11. Enable

Fig. 15

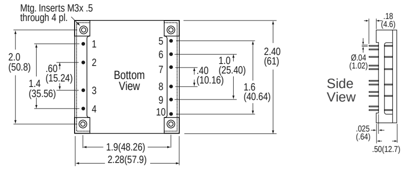
DSP1N5D Series: • Up to 1 watt unregulated output power • Single in-line package • Four terminal operation • Efficiencies to 70% • Output voltages: 5V, 7V, 12V, 14V, 15V, 17V • 500V isolation • -25°C to +85°C operation



1. +Input
2. –Input
3. –Out
4. Common
5. +Out

Fig. 16

HBD Series - 40-60W Dual Output: • High efficiency • High density • Independent +5 and +3.3 outputs • Remote shutdown • 10% min. output current • Case temp., operating range -40°C to +100°C • UL1950, CSA22.2-950, EN60950 safety (consult factory for conditions) • Water washable • Open frame technology



1. –V In
2. Case
3. On/Off
4. +V In
5. –V Out 2 (3.3V)
6. –V Out 2 (3.3V)
7. Trim 2
8. +V Out 1 (5V)
9. –V Out 1 (-5V)
10. Trim 1

Fig. 17

TQD Series - 100W Dual Output: • Independent dual outputs • Flexible load sharing • Open frame design • Independent trims for each output • 1500VDC isolation • Baseplate operation 100°C • Input reverse voltage protection, shunt diode • Positive logic remote shutdown • Switching freq. is 250KHz • UL, CSA, EN60950 safety

1. –V In
2. Enable
3. Case
4. +V In
5. +V Out 1
6. +Sense 1
7. Trim 1
8. –Sense 1
9. –V Out 1
10. –V Out 2
11. –Sense 2
12. Trim 2
13. +Sense 2
14. +V Out 2

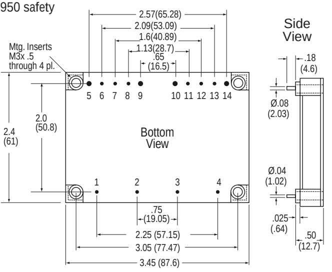
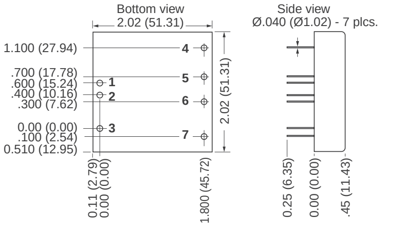


Fig. 18

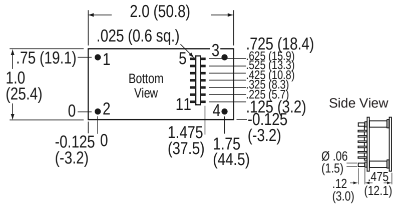
DGP20ExxT Series - Triple Outputs • Five-sided shielded case • Remote On/Off • Efficiencies to 84% • -40°C to +85°C operation • 700V isolation • Extended range input (2:1)



1. +Input
2. –Input
3. On/Off
4. +12/15V Out
5. +5V Output
6. Common
7. –12/15V Out

Fig. 19

UPM-EA Series - 45W Programmable, Non-Isolated: This DC/DC converter is a high efficiency, step-down converter • Excellent transient response • Power good signal • Surface-mount construction • Short circuit protection • Low profile • Water washable • Open-frame design



1. –V In
2. +V In
3. –V Out
4. +V Out
5. P4
6. P3
7. P2
8. P1
9. P0
10. Ground
11. Power Ground

Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
11	3.3	15 A	18-36	179-2162-ND	148.50	140.50	130.00	122.01	QES050YE-A
	3.3	15 A	36-75	179-2163-ND	148.50	140.50	130.00	122.01	QES050ZE-A
	3.3	15 A	36-75	179-2164-ND	148.50	140.50	130.00	122.01	QES050ZE-ANT
	3.3	20 A	36-75	179-2165-ND	169.25	143.75	131.25	122.00	QES066ZE-A
	3.3	20 A	36-75	179-2166-ND	169.25	143.75	131.25	122.00	QES066ZE-ANT
12	2.5	15 A	18-36	179-2167-ND	129.00	123.25	115.00	103.50	QBS038YD-A
	2.5	15 A	36-75	179-2168-ND	129.00	123.25	115.00	103.50	QBS038ZD-ANT
	3.3	15 A	18-36	179-2169-ND	109.25	104.75	97.76	88.76	QBS050YE-A
	3.3	15 A	36-75	179-2170-ND	109.25	104.75	97.76	88.76	QBS050ZE-ANT
	5	15 A	18-36	179-2171-ND	123.25	117.50	110.50	102.50	QBS075YG-A
	12	8.33 A	18-36	179-2172-ND	124.25	116.25	107.01	99.00	QBS100YH-A
	5	20 A	36-75	179-2173-ND	124.25	116.25	107.01	99.00	QBS100ZG-ANT
13	2.5	6.2 A	3.0-3.6	179-2181-ND	46.00	44.00	42.00	39.00	SIP302.5LT
14	2.1	6	4.5-5.5	179-2182-ND	44.00	42.00	40.00	37.00	SIP502.1LT
14	2.5	6	4.5-5.5	179-2183-ND	44.00	42.00	40.00	37.00	SIP502.5LT
14	3.3	6	4.5-5.5	179-2184-ND	44.00	42.00	40.00	37.00	SIP503.3LT
13	5	4 A	3.0-4.0	179-2185-ND	44.00	42.00	40.00	37.00	SIP305
Double Output									
4	±5	±0.85 A	9-36	179-1021-ND	71.50	70.00	68.25	66.75	DFC10U24D5
	±12	±0.4 A	9-36	179-1022-ND	71.50	70.00	68.25	66.75	DFC10U24D12
	±15	±0.32 A	9-36	179-1023-ND	71.50	70.00	68.25	66.75	DFC10U24D15
	±5	±0.8 A	18-72	179-1024-ND	71.50	70.00	68.25	66.75	DFC10U48D5
	±12	±0.415 A	18-72	179-1025-ND	71.50	70.00	68.25	66.75	DFC10U48D12
	±15	±0.33 A	18-72	179-1026-ND	71.50	70.00	68.25	66.75	DFC10U48D15
5	±5	±1.7 A	9-18	179-1044-ND	105.50	101.50	96.00	91.00	DFA20E12D5
	±12	±0.85 A	9-18	179-1045-ND	105.50	101.50	96.00	91.00	DFA20E12D12
	±15	±0.7 A	9-18	179-1046-ND	105.50	101.50	96.00	91.00	DFA20E12D15
	±5	±1.7 A	18-36	179-1047-ND	105.50	101.50	96.00	91.00	DFA20E24D5
	±12	±0.85 A	18-36	179-1048-ND	105.50	101.50	96.00	91.00	DFA20E24D12
	±15	±0.7 A	18-36	179-1049-ND	105.50	101.50	96.00	91.00	DFA20E24D15
	±5	±1.0 A	3.5-16	179-1056-ND	85.50	82.00	78.75	75.50	DGP12U5D5
	±12	±0.5 A	3.5-16	179-1057-ND	85.50	82.00	78.75	75.50	DGP12U5D12
	±15	±0.4 A	3.5-16	179-1058-ND	85.50	82.00	78.75	75.50	DGP12U5D15

Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
6	±15	±0.5 A	20-72	179-1031-ND	97.75	93.50	89.76	86.25	DFC15U48D15
15	±5	±0.075 A	4.5-5.5	179-1074-ND	16.50	16.00	15.50	14.25	DSP1N5D5
	±7	±0.07 A	4.5-5.5	179-1075-ND	16.50	16.00	15.50	14.25	DSP1N5D7
	±12	±0.04 A	4.5-5.5	179-1076-ND	16.50	16.00	15.50	14.25	DSP1N5D12
	±14	±0.035 A	4.5-5.5	179-1077-ND	16.50	16.00	15.50	14.25	DSP1N5D14
	±15	±0.033 A	4.5-5.5	179-1078-ND	16.50	16.00	15.50	14.25	DSP1N5D15
	±17	±0.030 A	4.5-5.5	179-1079-ND	16.50	16.00	15.50	14.25	DSP1N5D17
16	+5.0/+3.3	8/12 A	18-36	179-2158-ND	150.75	131.25	118.50	111.75	HBD040YGE-A
	+5.0/+3.3	8/12 A	34-75	179-2159-ND	150.75	131.25	118.50	111.75	HBD040ZGE-A
	+5.0/+3.3	12/15 A	18-36	179-2160-ND	156.50	138.00	127.75	119.75	HBD060YGE-A
	+5.0/+3.3	12/15 A	34-75	179-2161-ND	156.50	138.00	127.75	119.75	HBD060ZGE-A
17	+3.3/+2.5	25/25 A	36-72	179-2174-ND	177.75	162.00	150.00	144.01	TQD085ZED-A
	+3.3/+2.5	25/25 A	36-72	179-2175-ND	177.75	162.00	150.00	144.01	TQD085ZED-AN
	+5.0/+3.3	20/25 A	36-72	179-2176-ND	185.00	181.25	173.01	164.51	TQD100ZGE-A
	+5.0/+3.3	20/25 A	36-72	179-2177-ND	185.00	181.25	173.01	164.51	TQD100ZGE-AN
Triple Output									
18	5 ±12	2.5 A ±0.310 A	9-18	179-1059-ND*	107.00	103.00	98.75	93.50	DGP20E12T5/12
	5 ±15	2.5 A ±0.250 A	9-18	179-1060-ND†	107.00	103.00	98.75	93.50	DGP20E12T5/15
	5 ±12	2.5 A ±0.310 A	18-36	179-1061-ND‡	107.00	103.00	98.75	93.50	DGP20E24T5/12
	5 ±15	2.5 A ±0.250 A	18-36	179-1062-ND*	107.00	103.00	98.75	93.50	DGP20E24T5/15

*600 mA, † 75 mA, ‡60 mA = Minimum Current Load

Note: "N" in suffix of part number denotes Negative Logic;
"3" in suffix of part number denotes Trim and Enable

Programmable DC-DC Converter

This programmable DC/DC converter is a high efficiency, step-down converter. It incorporates a 5-bit DAC output voltage control which is compliant with standard VRM VID protocol. It provides up to 45 watts of output at 13A output current, and at output voltages from 1.30 to 3.50V.

Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
19	1.3-3.5	13A	3.0-3.6	179-2186-ND	81.90	78.75	75.60	70.35	UPM-EA

POWER-ONE® Switching Power Supplies

GENERAL FEATURES: Power-One's proprietary Universal Terminal Block Connectors and Mounting System assure product integration. Safety agency approved: UL recognized, CSA certified, and TUV Essen certified. • Power Fail Warning Signal. 100% test, inspection and burn-in. • Overload Protection • Overvoltage Protection • Overtemperature Protection **AC Input:** Automatic selecting: 90-264 VAC, 47-63 Hz single phase. **Temperature Rating:** 0°C to +50°C • Two Year Warranty

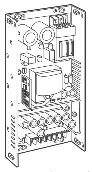
MPU150 - 150 Watts with PFC

The MPU150 is the first product in this power range incorporating PFC in a low profile package that meets 1U height constraints. All models feature remote sense on V1 and V2 to provide independent compensation of power cable losses.

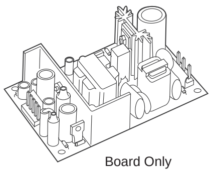
Power-Ones' unique dual-converter architecture combines high reliability, achieved through reduced component stresses, with exceptional regulation. Other standard features include CE Marking, current sharing on V1 and V2, thermal shutdown, and remote inhibit. Additionally,only 300 Linear Feet per Minute (LFM) airflow is required. **FEATURES:** • Active power factor correction meets EN61000-3-2 • Low profile height fits 1U height constraints • Dual main outputs provide 3.3V and 5V for mixed logic applications • CE Marked to the LVD • Autoranging AC input, 85-264VAC • Isolated V3 and V4 can be used as plus or minus outputs

MPB80 - 80 Watts with PFC

FEATURES: • 65 Watts convection cooled, 80 Watts with 300 LFM forced air • Power factor correction meets EN61000-3-2 • High 3.3V and 5V current capabilities available • CE Marked to the LVD • Autoranging AC input, 85-264VAC • Overvoltage protection on the main output • Isolated V3 can be used as a plus or minus output.



U-Channel



Board Only

9222B-ND Power One Reference Guide . . . **$4.15**

MAP SERIES *Single Output*

Nominal Output Voltage	Power (Watts) Continuous	Peak	Current Maximum	Peak	Initial Setting Tolerance	Line Reg.	Load Reg.	Output Adj. Range	Configuration	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
5V	40	—	8A/11A	—	—	.2%	1%	4.75V-5.5V	6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm) *	179-2020-ND	113.00	98.00	88.50	MAP40-1005
5V	40	—	8A/11A	—	4.9 to 5.1V	.2%	1%	4.7V-5.8V	5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm) ‡	179-2001-ND	65.25	59.75	54.00	MAP42-1005
12V-15V	40	—	3.4A/2.2 A	4.6A/3.0A	11.9 to 12.1V	.2%	1%	11V-18V	5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm) ‡	179-2002-ND	65.25	59.75	54.00	MAP42-1012
24V-28V	40	—	1.4A/1.7A	2.3A/1.9A	23.8 to 24.2V	.2%	1%	23V-29V	5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm) ‡	179-2003-ND	65.25	59.75	54.00	MAP42-1024
12V-15V†	55	65	5.0A/4.0A	5.8A/4.7A	12.0 to 12.2V	.2%	1%	11.4V-15.75V	6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm) *	179-2081-ND	124.75	108.00	97.50	MAP55-1012
24V-28V†	55	65	2.5A/2.2A	2.9A/2.5A	23.8 to 24.2V	.2%	1%	23.5V-28.5V	6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm) *	179-2082-ND	124.75	108.00	97.50	MAP55-1024
5.1V	110††	110	16A	22A	5.09 to 5.11V	.2%	1%	4.95V-5.50V	7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm) ‡	179-2006-ND	154.50	144.25	134.01	MAP110-1005
12V-15V†	130	165	12A/10A	13.8A/11A	12 to 12.2V	.2%	1%	11.4V-15.75V	8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm) *	179-2080-ND	245.75	218.75	197.25	MAP130-1012
12V-15V†	140††	—	9.2A 7.3A	12.5A 10A	11.97 to 12.03V	.1%	.5%	11.0V-16.0V	7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm)‡	179-2009-ND	195.00	184.00	173.25	MAP140-1012
24V-28V†	140††	—	4.6A 4A	6.3A 5.4A	23.95 to 24.5V	.1%	.5%	22.8V-29.2V	7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm) ‡	179-2010-ND	211.25	200.50	186.25	MAP140-1024
48V	140††	—	2.3A	3.1A	47.9 to 48.1V	.1%	.5%	45.6V-54V	7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm) ‡	179-2011-ND	211.25	200.50	186.25	MAP140-1048

* U-Channel Configuration † Models with adjustable outputs have current ratings expressed as current at lowest nominal voltage followed by current at highest nominal voltage.
†† 200LFM force-air cooling ‡ Board Only Configuration.

Triple Output

Nom. Output Voltage	Power (Watts) Continuous	Peak	Current	Initial Setting Tolerance	Line Reg.	Load Reg.	Configuration	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
+5V +24V -12V	40	50	3A 1A .3A	4.9 to 5.1V 23.0 to 25V -11.5 to -12.5V	.2% 1% 1%	2% 3.5% 2%	*Board Only* 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2004-ND	83.00	74.00	68.00	61.00	MAP40-3101
+5V +12V -5V	40	50	3A 2A .5A	4.9 to 5.1V 11.5 to 12.5V -4.75 to 5.25V	.2% 1% 1%	2% 3.5% 2%	*Board Only* 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2005-ND	69.00	63.00	57.00	52.00	MAP40-3105
+5V +12V -12V	40	50	3A 2A .3A	4.9 to 5.1V 11.5 to 12.5V -11.5 to -12.6V†	.2% 1% 1%	2% 3.5% 2%	*Board Only* 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2095-ND*	78.00	71.00	64.00	57.75	MAP40-3000
+5V +12V -12V	80	140	20A 4A 1A	5.09 to 5.11V 11.97 to 12.03AV -11.4 to -12.6V	.2% .1% .1%	1% 2% 2%	*Board Only* 7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm)	179-2012-ND	211.25	200.50	186.25	171.01	MAP140-3000P

* Requires Connectors WM 2123-ND, WM2126-ND, & WM2300-ND which are sold separately. † MAP40-3000 V3 regulation requires a minimum load of 0.5A on V1 or 0.3A on V2.

Quad Output

Nom. Output Voltage	Power(Watts) Continuous	Peak	Current	Initial Setting Tolerance	Line Reg.	Load Reg.	Configuration	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
+5V +12V -5V -12V	55	65	6A 3A .5A* .5A*	5.0 to 5.2V 11.6 to 12.4V -4.8 to -5.2V -11.6 to -12.4V	.2% .2% .5% .5%	2% 2% 2% 2%	*U-Channel* 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2096-ND	124.75	108.00	97.50	94.75	MAP55-4000
+5V +24V +12V -12V	55	65	6A 1.5A .5A* .5A*	5.0 to 5.2V 23.0 to 24.9V 11.6 to 12.4V -11.6 to -12.4V	.2% .2% .5% .5%	2% 2% 2% 2%	*U-Channel* 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2097-ND	124.75	108.00	97.50	94.75	MAP55-4001
+5V +12V +12V -12V	55	65	6A 3A .5A* .5A*	5.0 to 5.2V 11.6 to 12.4V 11.6 to 12.4V -11.6 to -12.4V	.2% .2% .5% .5%	2% 2% 2% 2%	*U-Channel* 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2098-ND	124.75	108.00	97.50	94.75	MAP55-4002
+5V +15 -5V -15V	55	65	6A 2.5A .5A* .5A*	5.0 to 5.2V 14.6 to 15.4V -4.8 to -5.2V -14.4 to -15.6V	.2% .2% .5% .5%	2% 2% 2% 2%	*U-Channel* 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2099-ND	125.00	108.00	98.01	95.01	MAP55-4003
+5V +12V -12V -5V	80	90	14A 4A 1A 1A	5.1 to 5.2V 11.9 to 12.1V -11.5 to -12.5V -4.8 to -5.4V	.2% .2% .5% .5%	1% 1% 2% 2%	*U-Channel* 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2100-ND	196.00	185.00	168.00	163.01	MAP80-4000
+5V +24V +12V -12V	80	90	14A 2A 1A 1A	5.1 to 5.2V 24.0 to 24.1V 11.5 to 12.5V -11.5 to -12.5V	.2% .2% .5% .5%	1% 1% 2% 2%	*U-Channel* 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2101-ND	200.00	196.00	179.00	168.01	MAP80-4001
+5V +12V +12V -12V	80	90	14A 4A 1A 1A	5.1 to 5.2V 12.0 to 12.1V 11.6 to 12.4V -11.6 to -12.4V	.2% .2% .5% .5%	1% 1% 2% 2%	*U-Channel* 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2102-ND	207.00	196.00	179.00	168.01	MAP80-4002
+5V +15V -5V -15V	80	90	14A 3.5A 1A 1A	5.1 to 5.2V 14.6 to 15.1V -4.8 to -5.4V -14.4 to -15.5V	.2% .2% .5% .5%	1% 1% 2% 2%	*U-Channel* 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2103-ND	204.50	192.00	173.01	167.01	MAP80-4003
+5V +12V -12V +24V	80	110	12A 5A 1A 1A	5.09 to 5.11V 11.97 to 12.03V -11.4 to -12.6V 23.2 to 24.8V	.2% .1% .1% .1%	.5% 1% 1% 1%	*Board Only* 7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm)	179-2007-ND	162.50	151.50	141.00	131.01	MAP110-4011
+3.3V +5V -12V +12V	80	110	12A 5A 1A 1A	3.29 to 3.31V 4.98 to 5.02V -11.4 to -12.6V 11.4 to 12.6V	.3% .2% .1% .1%	.7% 1% 1% 1%	*Board Only* 7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm)	179-2008-ND	234.50	209.00	188.50	183.00	MAP110-4300
+5V +12V -12V -5V	130	165	20A 5A 1A 1A	5.1 to 5.2V 11.75 to 12V -11.6 to -12.4V -48 to -5.2V	.2% .5% .5% .5%	1% 2% 2% 2%	*U-Channel* 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2093-ND	245.75	218.75	197.25	191.75	MAP130-4000
+5V +24V -12V +12V	130	165	20A 3.5A 1A 1A	5.1 to 5.2V 23.9 to 24.1V -11.6 to -12.4V 11.6 to 12.4V	.2% .5% .5% .5%	1% 2% 2% 2%	*U-Channel* 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2019-ND	250.00	222.50	200.51	194.75	MAP130-4001
+5V +12V +12V -12V	130	165	20A 5A 1A 1A	5.1 to 5.2V 11.9 to 12.1V 11.6 to 12.4V -11.6 to -12.4V	.2% .5% .5% .5%	1% 2% 2% 2%	*U-Channel* 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2094-ND	250.00	222.50	200.51	194.75	MAP130-4002
Cover for MAP55 and MAP40-1005 Series								179-2021-ND	10.50	—	—	—	412-59584
Cover for MAP80 Series								179-2022-ND	12.70	—	—	—	412-59585
Cover for MAP130 Series								179-2023-ND	10.50	—	—	—	412-59586

* Max load on V3 or V4 can be 1 amp if either V3 or V4 is unloaded.

(Continued)

POWER-ONE® Switching Power Supplies *(Cont.)*

MPB 80 Series

Configuration: 179-2013-ND: Board Only 5.00" x 3.00" x 1.30" (127.00mm x 76.20mm x 33.02mm)
179-2014-ND and 179-2015-ND: Board Only 5.00" x 3.00" x 1.40" (127.00mm x 76.20mm x 35.56mm) **Caution: *** 80 Watt with 300LFM force-air cooling.

Nom. Output Voltage	Current	Adjustable Range	Line Regulator	Load Regulator	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
					*80 - Power (Watts)**					
+5V +12V	11A .5A	4.9 to 5.1V 11.5 to 12.5V	.8% .5%	-4% to +2% ±5%	179-2013-ND	99.75	90.00	83.00	75.01	MPB80-2000
+5V +12V 12V	7A 2.5A 0.3A	4.9 to 5.1V 11.5 to 12.5 -11.5 to -12.5	.5% 1.5% .5%	-4% to +6% -7% to +13% ±4%	179-2014-ND	105.00	96.75	89.25	80.00	MPB80-3000
+3.3V +5V 12V	7A 3A 0.4A	3.27 to 3.33V 4.95 to 5.05V 10.2 to 14.0V	.7% .5% 1.5%	±2% ±2% -15% to +17%	179-2015-ND	105.00	96.75	89.25	80.00	MPB80-3300

MPU 150 Series

Configuration: 179-2016-ND, 179-2017-ND and 179-2018-ND: U-Channel 7.40" x 4.20" 1.50" (187.96mm x 106.68mm x 38.10mm) **Caution: *** 150 Watt with 300LFM force-air cooling.

Nom. Output Voltage	Current	Adjustable Range	Line Regulator	Load Regulator	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
					*150 - Power (Watts)**					
+3.3V +5V +12V	35A 20A 2A	3.15 to 3.8V 5.0 to 5.5V 10.8 to 13.2V	.6% .4% .4%	1.5% 3% 3%	179-2016-ND	241.50	220.50	210.01	194.26	MPU150-3300
+5.1V +12V 5V 12V	30A 8A 3A 2A	5.0 to 5.5V 10.8 to 13.2V 5.0 to 5.5V 10.8 to 13.2V	.4% .4% .4% .4%	1% 1% 1% 1%	179-2017-ND	262.50	241.50	225.75	204.75	MPU150-4000
+5.1V +3.3V 12V 12V	30A 15A 3A† 3A†	5.0 to 5.5V 3.15 to 3.6V 10.8 to 13.2V 10.8 to 13.2V	.4% .6% .4% .4%	1% 1.5% 7% 7%	179-2018-ND	262.50	241.50	225.75	204.75	MPU150-4530

† Total not to exceed 5A.

Panasonic® DC-DC Power Modules FD-Series

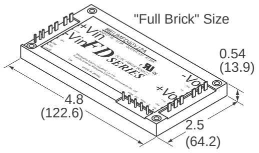
The FD Series are DC-DC converters especially designed for Telecommunication equipment (i.e., Base Station RF Power Amplifier, Private Branch Exchange (PBX). FD Series involves newly developed "Partial Resonant Zero Voltage Switching Converter", "High Thermal Conductive Composite Board" and "Low Profile Inductors" to achieve high density, high efficiency and low EMI noise

Applications:

- RF Power Amplifier for Base Station
- Private Branch Exchange (PBX)

Features:

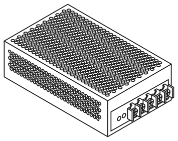
- Parallel operation with forced load sharing
- Remote ON/OFF (primary side referenced)
- Adjustable output voltage
- Power Good Signal (POK)
- Thermal protection
- Over voltage and over current protection
- Case ground (Base Plate) pin
- Remote sense
- UL Recognized, CSA Certified, and EN60950
- CE mark meets 73/73/EEC and 93/68/EEC directives
- Mounting Inserts: M3 X 0.5

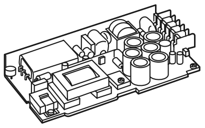


VDC Input Min.	Typ.	Max.	V Out	I Out	V in Range	Output Noise (mV)	Load Reg. (%)	Line Reg. (%)	% Typ. Efficiency	Temperature Range	Digi-Key Part No.	Price Each	Panasonic Part No.
						Output Power – 500 Watts							
19	24	36	12	42A	19-36	150	0.5	0.5	85	-40°C to +85°C @ 500W -40°C to +100°C @ 425W	P11461-ND	395.01	EUMFD50V12A
						Output Power – 600 Watts							
19	24	36	28	21.5A	19-36	100	0.7	0.5	87.5	-40°C to +85°C @ 560W -40°C to +100°C @ 448W	P11462-ND	395.01	EUMFD60V28A
36	48	72	12	50A	36-72	80	0.5	0.5	89	-40°C to +85°C @ 600W -40°C to +100°C @ 540W	P11463-ND	395.01	EUMFD60Y12A
36	48	72	28	21.5A	36-72	100	0.75	0.5	91	-40°C to +85°C @ 602W -40°C to +100°C @ 546W	P11464-ND	395.01	EUMFD60Y28A

P11465-ND Power Choke For FD Series L0=2.54µH @ 0A, L1=1.75µH @ 25A, DCR=2.2mOhms **$10.01**

TOKO Power Supplies SW Series





FEATURES:

- Very low profile and small size
- Wide Variation: 7 type 94 part number
- Worldwide Input Voltage: all type 85VAC ~ 264VAC (cont.)
- High Dialectic Strength: 2000VAC between input and output
- Safety Standards: Designed to meet UL1950(D3).

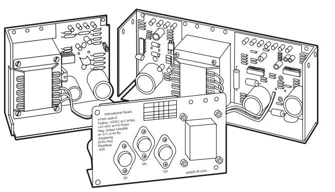
GENERAL SPECIFICATIONS:

- **Frequency Range:** 47-63 Hz
- **Inrush Current:** 5V~15V = 30/60A; 30V~100V = 45/90A
- **Ripple Voltage (max.):** 5V-12V: 120mVpp; 15V: 150mVpp; 24V: 200mVpp; 48V: 400mVpp:
- **Overall Output Req.:** 3%
- **Overload Protection:** +105% of rated current, automatic recovery
- **Dielectric Strength:** 2.0KVAC for 1 minute applied between input/output
- **Insulation Resistance:** 100mΩ between output/frame and input/output, measured with a 500 VDC tester
- **Operating Temp.:** 0°C to +60°C
- **Operating Humidity:** 30% to 85% RH
- **Weight:** SW30: 250g; SW50: 400g; SW100: 600g

Input Volt. (Vac)	Output Volt.(s)	Output Current	Dim. (mm) H x D x W	Digi-Key Part No.	Price Each 1	50	Toko Part No.
			Output Power — 30 Watts — Open Frame				
85-264	24V	1.33A	97x114x25.4	TS9996-ND	73.56	69.14	SW30-24F
			Output Power — 100 Watts — Enclosed Frame				
85-264	5V	20.0A	97 x 194 x 35	TS9864-ND	179.12	—	SW100-05C

POWER-ONE® Linear Power Supplies

9222B-ND	Power One Reference Guide	**$4.15**



Features: • Worldwide AC input Capabilities • Meets domestic and foreign safety standards: UL, CSA, IEC, VDE, BPO, ECMA, CE • Low output ripple • 2 hour burn-in • Made in U.S.A.

Overvoltage Protection Options: Optional overvoltage protection modules are offered, each is user adjustable from 6.4V to 34V. Note: Outputs with factory built-in OVP are indicated in the Voltage/Current Rating Chart for each model.

General Specifications: • AC Input: 100/120/220/240 VAC +10%, -13%. 47-63 Hz. Tolerance for 230 VAC operation is +15%, -10%. Factory wired for 120V operation • DC Output: Adjustment range ±5% minimum. Voltage non-adjustable on “3 terminal regulator” outputs • Line Regulation: ±.05% for a 10% line change. Exceptions: ±.01% for F, G case models, ±0.5% for all other outputs using “3 terminal regulators” • Load Regulation: ±.05% for a 50% load change. Exceptions: ±.02% for F, G case models, ±0.5% for all other outputs using “3 terminal regulators” • Output Ripple: 5V through 15V models: 5.0 mV PK-PK maximum. (3.0 mV PK-PK maximum for F, G case models). 24V through 250V models: 3.0 mV PK-PK plus .02% of output voltage, maximum. All “3 terminal regulator” outputs: 0.2% PK-PK maximum • Overvoltage Protection: Provided on 5V outputs where indicated. Set at 6.2V ±0.4%. Other outputs use optional overvoltage protectors OVP12 and OVP24. • Operating Temperature: 0°C to 50°C full rated, derated linearly to 40% at 70°C. • Efficiency: 5V outputs — 45%, 12V and 15V outputs — 55%, 24V through 250V outputs — 60% • Master/Slave Operation: Provided on F, G models only. For parallel operation of up to 6 units.

Safety Specifications: All models exceed the following safety standards — Leakage Current Line to Ground (max.): 0.05 mA • Dielectric Withstand Voltage (min.): Input to Ground — 3750VRMS, Input to Outputs — 3750VRMS, Outputs to Ground — 500VDC • 2 year warranty

Overvoltage Protection

Voltage Adjustment Range: 6.4 - 33VDC		
Maximum Current Rating		
Model	**Intermittent**	**Continuous**
OVP-12	12.0A	8.0A
OVP-24	30.0A	20.0A

Dimensions – In. (mm) Height x Width x Thickness	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
1.50 x 1.55 x 0.56 (38.10 x 39.37 x 14.22)	179-2057-ND	9.75	9.50	9.25	OVP-12
2.00 x 2.75 x 0.77 (50.80 x 69.85 x 19.56)	179-2058-ND	16.25	15.71	15.50	OVP-24

International Series Single Output

Voltage/ Current	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 1.5A*	B	179-2061-ND	34.75	33.75	33.00	31.25	HA5-1.5/OVP-A
5V @ 3A†*	B	179-2035-ND	36.50	35.50	34.75	33.00	HB5-3/OVP-A
5V @ 6A†*	C	179-2040-ND	57.50	55.75	55.00	51.75	HC5-6/OVP-A
5V @ 9A†*	N	179-2056-ND	78.50	76.00	74.50	70.50	HN5-9/OVP-A
5V @ 12A†*	D	179-2046-ND	89.00	86.25	84.50	80.00	HD5-12/OVP-A
5V @ 18A†*	E	179-2051-ND	131.00	127.25	124.50	118.01	HE5-18/OVP-A
5V @ 25A†*	F	179-2026-ND	184.50	179.00	175.50	166.25	F5-25/OVP-A
12V @ 0.9A**	B	179-2027-ND	32.13	31.25	30.50	29.00	HA15-0.9-A
12V @ 1.7A†	B	179-2029-ND	34.50	33.50	32.75	31.25	HB12-1.7-A
12V @ 3.4A†	C	179-2036-ND	52.25	50.75	49.75	47.00	HC12-3.4-A
12V @ 5.1A†	N	179-2052-ND	73.25	71.00	69.50	66.00	HN12-5.1-A
12V @ 6.8A†	D	179-2041-ND	83.75	81.25	79.50	75.26	HD12-6.8-A
12V @ 10.2A†	E	179-2047-ND	115.00	111.50	109.25	103.51	HE12-10.2-A
12V @ 16A†**	F	179-2024-ND	184.50	179.00	175.50	166.25	F15-15-A
15V @ 1.5A†	B	179-2030-ND	35.75	34.75	34.00	32.26	HB15-1.5-A
15V @ 3A†	C	179-2037-ND	52.25	50.75	49.75	47.00	HC15-3-A
15V @ 4.5A†	N	179-2053-ND	73.25	71.00	69.50	66.00	HN15-4.5-A
15V @ 6A†	D	179-2042-ND	83.75	81.25	79.50	75.26	HD15-6-A
15V @ 9A†	E	179-2048-ND	115.00	111.50	109.25	103.51	HE15-9-A
24V @ 0.5A**	B	179-2028-ND	34.75	33.75	33.00	31.25	HA24-0.5-A
24V @ 1.2A†	B	179-2032-ND	36.50	35.25	34.75	32.76	HB24-1.2-A
24V @ 2.4A†	C	179-2038-ND	52.25	50.75	49.75	47.00	HC24-2.4-A
24V @ 3.6A†	N	179-2054-ND	73.25	71.00	69.50	66.00	HN24-3.6-A
24V @ 4.8A†	D	179-2043-ND	83.75	81.25	79.50	75.26	HD24-4.8-A
24V @ 7.2A†	E	179-2049-ND	115.00	111.50	109.25	103.51	HE24-7.2-A
24V @ 12A†**	F	179-2025-ND	184.50	179.00	175.50	166.25	F24-12-A
28V @ 1A†	B	179-2033-ND	36.50	35.25	34.75	32.76	HB28-1-A
28V @ 2A†	C	179-2039-ND	52.25	50.75	49.75	47.00	HC28-2-A
28V @ 3A†	N	179-2055-ND	73.25	71.00	69.50	66.00	HN28-3-A
28V @ 4A†	D	179-2044-ND	83.75	81.25	79.50	75.26	HD28-4-A
48V @ 0.5A	B	179-2034-ND	42.00	40.75	39.75	37.75	HB48-0.5-A
48V @ 3A†	D	179-2045-ND	89.00	86.25	84.50	80.00	HD48-3-A
48V @ 4A†	E	179-2050-ND	125.50	121.75	119.26	113.00	HE48-4-A
175-210V @ 0.12A	B	179-2031-ND	55.00	54.00	51.00	50.00	HB200-0.12-A

* Overvoltage protection provided. Set at 6.2V ±0.4V. ** Adjustable outputs: F15-15-A: 12-15V, F24-12-A: 24-28V, HA24-0.5-A: 24-28V † Remote sense provided

OVP SELECTION GUIDE		
Model	**Case Size**	**OVP Modules Required**
Single Output	B, C, N, D E, F	(1) OVP-12 (1) OVP-24
Dual Output	AA, B, BB, CC E	(1) OVP-12 protects both outputs (1) OVP-24 protects both outputs
Triple Output	AA, BAA, D, CBB 131, DBB, DCC	(1) OVP-12 protects both 12V through 15V outputs
Peak Current Models	PW9935-ND	(1) OVP-12 protects any output not provided with built-in OVP

Case Size

Case	Overall Size – In. (mm)	Weight
CBB	11.00 x 4.87 x 3.28 (279.40 x 123.70 x 83.31)	8 Lbs
D	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 Lbs
DBB	14.25 x 4.87 x 3.38 (361.95 x 123.70 x 85.85)	11 Lbs
DCC	15.00 x 4.88 x 4.55 (381.00 x 123.95 x 115.57)	12 Lbs
E	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 Lbs
F	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 Lbs
AA	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 Lbs
B	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 Lbs

Case	Overall Size – In. (mm)	Weight
BB	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 Lbs
BAA	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	5 Lbs
C	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 Lbs
CC	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 Lbs
N	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 Lbs
CP131	11.00 x 4.87 x 3.20 (279.40 x 123.70 x 81.28)	9 Lbs
NRG275	9.00 x 5.00 x 2.50 (228.60 x 127.00 x 63.50)	3 Lbs

International Series Dual Output

Output #1	Output #2	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
+12V @ 0.4A§	-12V @ 0.4A§	B	179-2065-ND	38.75	37.50	36.75	34.76	HAD12-0.4-A
+15 @ 0.4A§	-15V @ 0.4A§	B	179-2066-ND	38.75	37.50	36.75	34.76	HAD15-0.4-A
+12V @ 1A or +15V @ 0.8A†	-12V @ 1A or -15V @ 0.8A or -5V @ 0.4A†	AA	179-2062-ND	45.00	43.75	42.75	40.51	HAA15-0.8-A
+12V @ 1.7A or +15V @ 1.5A†	-12V @1.7A or -15V @ 1.5A or -5V @ 0.7A†	BB	179-2068-ND	57.50	55.75	55.00	51.76	HBB15-1.5-A
+12V @ 3.4A or +15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	CC	179-2073-ND	92.00	89.25	87.51	82.75	HCC15-3-A
+12V or 15V @ 5A†	(-)12V or 15V @ 5A†	E	179-2078-ND	136.00	131.75	129.01	122.25	HDD15-5-A
+18-20V @ 0.4A or +24V @ 0.6A	(-)18-20V @ 0.4A or -24V @ 0.6A	AA	179-2063-ND	48.46	47.00	46.25	43.76	HAA24-0.6-A
+18-20V @ 0.9A or +24V @ 1.2A	(-)18-20V @ 0.9A or -24V @ 1.2A	BB	179-2069-ND	63.00	62.00	61.01	57.01	HBB24-1.2-A
+18-20V @ 1.8A or +24V @ 2.4A†	(-)18-20V @ 1.8A or -24V @ 2.4A†	CC	179-2074-ND	101.00	98.00	96.00	91.00	HCC24-2.4-A
5V @ 2A*‡	9-15V @ 0.5A	AA	179-2064-ND	52.25	50.75	49.75	47.00	HAA512-A
5V @ 3A*‡†	12-15V @ 1.25A†	BB	179-2070-ND	62.75	61.00	59.50	56.50	HBB512-A
5V @ 6A*‡†	12-15V @ 2.5A†	CC	179-2075-ND	99.25	96.25	94.25	89.50	HCC512-A
+5V @ 2A*	+12V @ 4A	N	179-2060-ND	92.00	89.25	87.51	82.75	CP323-A

* Overvoltage protection provided. Set at 6.2V ±0.4%. † Remote sense provided. ‡ Isolated outputs, can be referenced as + or -. § Non-adjustable 3 terminal regulator.

International Series Triple Output

Output #1	Output #2	Output #3	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 2A*‡	+12 to 15V @ 0.4A	(-)12 to 15V @ 0.4A or -5V @ 0.4A	AA	179-2079-ND	57.50	55.75	54.75	51.76	HTAA-16W-A
5V @ 3A*†‡	+12V @ 1A or +15V @ 0.8A†	(-)12 @ 1A or -15V @ 0.8A or -5V @ 0.4A†	BAA	179-2067-ND	79.50	77.00	75.50	71.51	HBAA-40W-A
+5V @ 6A*†	+12 to 15V @1.0A	(-)12 to 15V @ 1A or -5V @ 0.4A	D	179-2071-ND	94.00	91.25	89.50	84.75	HCAA-60W-A
5V @ 6A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	CBB	179-2072-ND	109.75	106.50	104.25	98.76	HCBB-75W-A
5V @ 8A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	131	179-2059-ND	125.50	121.75	119.26	113.00	CP131-A
5V @ 12A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	DBB	179-2076-ND	148.07	143.63	140.67	133.27	HDBB-105W-A
5V @ 12A*†‡	+12V @ 3.4A or +15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	DCC	179-2077-ND	162.00	157.25	154.00	145.75	HDCC-150W-A

* Overvoltage protection provided. Set at 6.2V ±0.4%. † Remote sense provided. ‡ Isolated outputs, can be referenced as + or -

Input Filter Modules - FC100 Series

Fig. 1— FC100V5A

1. +V In
2. Ground
3. –V In
4. +V Out
5. –V Out

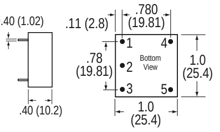


Fig. 2—FC100V10A

1. +V In
2. –V In
3. Ground
4. +V Out
5. –V Out

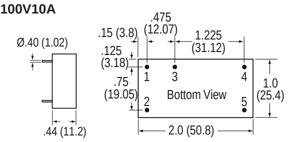
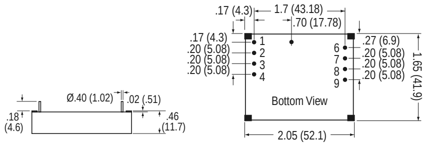


Fig. 3—FC100V20A

1. –V In
2. –V In
3. +V In
4. +V In
5. Ground
6. –V Out
7. –V Out
8. +V Out
9. +V Out



FC100 industry standard series of input filter modules provide up to 30dB of common mode and differential mode filtering at 500KHz. The FC100 series are available in 5A, 10A, and 20A versions and are optimized for operation with IPD's converters. The filters can be operated with up to 100VDC source and have 1000VDC of insolation. **Features:** • Meet class B conducted limits • PCB mountable • CM and DM filtering • Industry standard pinout • -40°C to 100°C case operation • Input frequency 100 Hz

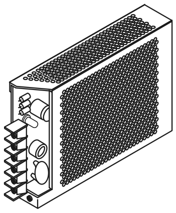
Fig.	Oper. Curr. (Amps)	Insertion Loss Differential Mode (dB)	Insertion Loss Common Mode (dB)	Typical Resistance (mOhms)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
1	5 A	28	30	27	179-2178-ND	14.00	13.50	13.00	12.50	FC100V5A
2	10A	31	28	17	179-2179-ND	17.50	17.00	16.25	15.50	FC100V10A
3	20 A	26	32	6.6	179-2180-ND	31.50	29.40	27.30	25.20	FC100V20A

OMRON® Switching Power Supplies

Enclosed Case — Single and Multiple Output

S8E Economical Enclosed Switching Supply

Compact and economical power supplies with vented cover for industrial applications. Screw terminal connections for ease of connecting to supply.



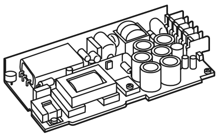
SPECIFICATIONS:

- Input Voltage: 85 to 132V
- Overvoltage Protection: Yes (5-V output models only)
- Efficiency: 73% to 83%
- Ambient Humidity: Operating: 25% to 85%
- Leakage Current (with rated I/O): 0.5mA max.
- Operating Temperature: 0°C to 40°C; Open-framed 0°C to 50°C
- Output Indicator: Green LED
- Noise Filter: Yes
- Electromagnetic Interference: Conforms to FCC class A standards and 1st group of VCCI
- Voltage Adjustment Range: ±5%
- Life Expectancy: 8 yrs. min.

Input Voltage	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each				Omron Part No.
							1	25	50	100	
85-132	10	5V	2.0A	1.10 x 2.72 x 3.35 (28 x 69 x 85)	Enclosed	Z1151-ND	41.81	38.72	36.14	33.56	S8E1-01005D
	10	24V	0.5A	1.10 x 2.72 x 3.35 (28 x 69 x 85)	Enclosed	Z1152-ND	41.81	38.72	36.14	33.56	S8E1-01024D
	15	5V	3.0A	1.34 x 2.72 x 3.70 (34 x 69 x 94)	Enclosed	Z1153-ND	49.80	46.11	43.04	39.97	S8E1-01505D
	15	24V	0.7A	1.34 x 2.72 x 3.70 (34 x 69 x 94)	Enclosed	Z1154-ND	49.80	46.11	43.04	39.97	S8E1-01524D
	25	5V	5.0A	1.38 x 2.72 x 4.84 (35 x 69 x 123)	Enclosed	Z1155-ND	62.48	57.86	54.00	50.15	S8E1-02505D
	25	24V	1.1A	1.38 x 2.72 x 4.84 (35 x 69 x 123)	Enclosed	Z1156-ND	62.48	57.86	54.00	50.15	S8E1-02524D
	50	5V	10.0A	1.46 x 2.72 x 6.34 (37 x 69 x 161)	Enclosed	Z1157-ND	87.38	80.91	75.52	70.13	S8E1-05005D
	50	24V	2.2A	1.46 x 2.72 x 6.34 (37 x 69 x 161)	Enclosed	Z1158-ND	87.38	80.91	75.52	70.13	S8E1-05024D
85-132	30	5V 12V -12V	5V/3A 12V/1.2A -12V/0.3A	1.3 x 2.71 x 6.77 (33 x 69 x 172)	Open-framed	Z1159-ND	84.56	78.30	73.08	67.86	S8E3-03031A
85-132	50	5V 12V -12V	5V/5A 12V/1.5A -12V/0.5A	1.3 x 2.71 x 7.62 (33 x 69 x 193.5)	Open-framed	Z1160-ND	103.36	95.70	89.32	82.94	S8E3-05031A
85-132	30	5V 12V -12V	5V/3A 12V/1.2A -12V/0.3A	1.3 x 2.71 x 6.77 (33 x 69 x 172)	Enclosed	Z1161-ND	90.20	83.52	77.96	72.39	S8E3-03031D
85-132	50	5V 12V -12V	5V/5A 12V/1.5A -12V/0.5A	1.3 x 2.71 x 7.62 (33 x 69 x 193.5)	Enclosed	Z1162-ND	108.99	100.92	94.20	87.47	S8E3-05031D

S82J Open Switching Power Supply

Open frame switching power supply with wide input voltages for industrial applications. Screw terminal connections for ease of connecting to supply.



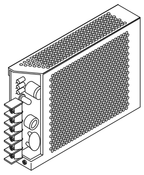
SPECIFICATIONS:

- Efficiency: (typical) 78% to 85%
- Voltage Adjustment Range: ±10%
- Operating Temperature: 0°C to 50°C
- Overload Protection: 105% min. of rated load current
- Frequency: 47 to 450Hz
- Life Expectancy: 8 yrs. Min.
- Leakage Current: 0.5mA max.
- Ambient Humidity: Operating: 25% to 85%
- Noise Filter: Yes
- Electromagnetic Interference: Conforms to FCC class A, EN55011 Gr1 class A: EN50081-2

Input Voltage	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each				Omron Part No.
							1	25	50	100	
85-132	10	5V	2A	1.38 x 3.82 x 3.54 (35 x 97 x 90)	Open-framed	Z1163-ND	40.40	37.41	34.92	32.43	S82J-01005A
	10	24V	0.5A	1.38 x 3.82 x 3.54 (35 x 97 x 90)	Open-framed	Z1164-ND	40.40	37.41	34.92	32.43	S82J-01024A
	25	5V	5A	1.57 x 3.82 x 4.88 (40 x 97 x 124)	Open-framed	Z1165-ND	59.19	54.81	51.16	47.51	S82J-02005A
	25	24V	1.1A	1.57 x 3.82 x 4.88 (40 x 97 x 124)	Open-framed	Z1166-ND	59.19	54.81	51.16	47.51	S82J-02024A
	50	5V	10A	1.57 x 3.82 x 6.34 (40 x 97 x 161)	Open-framed	Z1167-ND	79.40	73.52	68.62	63.72	S82J-05005A
85-264	50	24V	2.1A	3.8 x 1.6 x 6.34 (97 x 40 x 161)	Open-framed	Z1168-ND	79.40	73.52	68.62	63.72	S82J-05024A

S8PS Series Enclosed DIN Rail Mount Supply

Enclosed DIN rail mount power supplies with PFC on all models. Screw terminal connections make interfacing to supply convenient. For mounting track, use Z840-ND or Z841-ND



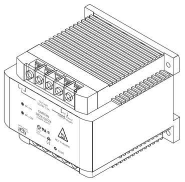
SPECIFICATIONS:

- Input Frequency: 47 to 63Hz
- Overvoltage Protection: Yes
- Efficiency: (typical) 74% to 80%
- Operating Temperature: 0°C to 50°C
- Life Expectancy: 10 yrs. min.
- Output indicator: Yes (green)
- Electromagnetic Interference: Conforms to FCC Class B, EN50081-1
- Leakage Current: 0.5 or 1.0mA max.
- Voltage Adjustment Range: -5% to 10%
- Mean Time Between Failure (MTBF): 135,000 hrs min.

Input Voltage	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each				Omron Part No.
							1	25	50	100	
85-264	50	5V	10A	1.57 x 3.35 x 5 (40 x 85 x 127)	Open-framed	Z1169-ND	112.75	104.40	97.44	90.48	S8PS-05005D
	50	12V	4.2A	1.57 x 3.35 x 5 (40 x 85 x 127)	Open-framed	Z1170-ND	112.75	104.40	97.44	90.48	S8PS-05012D
	50	24V	2.1A	1.57 x 3.35 x 5 (40 x 85 x 127)	Open-framed	Z1171-ND	112.75	104.40	97.44	90.48	S8PS-05024D
	100	24V	4.5A	1.97 x 3.62 x 5.71 (50 x 92 x 145)	Open-framed	Z1172-ND	181.34	167.91	156.72	145.53	S8PS-10024D
	50	5V	10A	1.57 x 3.35 x 5 (40 x 85 x 127)	Enclosed	Z1173-ND	117.45	108.75	101.50	94.25	S8PS-05005CD
	50	12V	4.2A	1.57 x 3.35 x 5 (40 x 85 x 127)	Enclosed	Z1174-ND	117.45	108.75	101.50	94.25	S8PS-05012CD
	50	24V	2.1A	1.57 x 3.35 x 5 (40 x 85 x 127)	Enclosed	Z1175-ND	117.45	108.75	101.50	94.25	S8PS-05024CD
	100	24V	4.5A	1.97x 3.62 x 5.71 (50 x 92 x 145)	Enclosed	Z1176-ND	186.04	172.26	160.78	149.30	S8PS-10024CD

S82K DIN Rail/Chassis Mount Switching Supply

DIN Rail or chassis mounted power supply for industrial applications. Screw terminals for both input and output connections and enclosed circuit board make this supply extremely safe for open access areas. For mounting track, use Z840-ND or Z841-ND



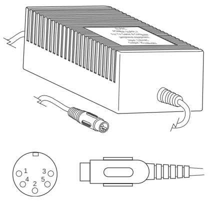
SPECIFICATIONS:

- Input Frequency: 47 to 450Hz
- Leakage Current: 100V input 0.5mA max.
- Efficiency: (typical) 60% to 80%
- Overload Protection: 105% to 160% of rated load current (typical)
- Life Expectancy: 8 years. min.
- Operating Temperature: 0°C to 40°C
- Input Voltage: 120VAC (85 to 132VAC) or 240VAC (170 to 264VAC) selectable
- Ambient Humidity: Operating 25% to 85%
- Noise Filter: Yes
- Electromagnetic Interference: Conforms to FCC class B
- Output Voltage Adjustment Range: ±10%

Input Voltage	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each				Omron Part No.
							1	25	50	100	
85-264	3	5V	0.6A	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1177-ND	46.04	42.63	39.79	36.95	S82K-00305
	3	12V	0.25A	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1178-ND	46.04	42.63	39.79	36.95	S82K-00312
	3	24V	0.13A	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1179-ND	46.04	42.63	39.79	36.95	S82K-00324
	7.5	5V	1.5A	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1180-ND	50.74	46.98	43.85	40.72	S82K-00705
	7.5	12V	0.6A	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1181-ND	50.74	46.98	43.85	40.72	S82K-00712
	7.5	24V	0.3A	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1182-ND	50.74	46.98	43.85	40.72	S82K-00724
	15	24V	0.6A	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z1183-ND	76.11	70.47	65.78	61.08	S82K-01524
	30	24V	1.3A	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z1184-ND	102.42	94.83	88.51	82.19	S82K-03024
	50	24V	2.1A	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z1185-ND	117.45	108.75	101.50	94.25	S82K-05024

External Power Supplies

Wide Range Input Series - Switching Regulated Tabletops



TUV FCC IEC

Outside ring on all units is an EMI earth ground (Not to be used as a safety ground).

Features: • IEC input connector • One year warranty.

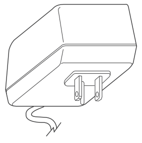
General Specifications: • Storage Temperature: -55°C to +85°C • Operating Temperature: 0°C to +40°C

Output Specifications: • Line Regulation: ±0.2% max. • Load Regulation: ±5% from 60% load nominal except output #2 • Cross Regulation: ±2%. Cross regulation specifies the max. voltage change on auxiliary outputs when the +5V output load current is varied from 75% of full rated to either 50% or 100% of full rated • Set Point: ±2% at 60% load on main input • Ripple & Noise: ±1% max. • Overload Protection: All outputs protected against overloads and short circuit. Automatic recovery upon removal of overload conditions • Overvoltage Protection: Provided on main output only and set at 115-135% • Output Overshoot: No overshoot on turn-on or turn-off • Transient Response: For all outputs, recovery to within 1% of nominal output occurs within 2 milliseconds for a 50% to 100% load step. Maximum excursion is 6% from initial voltage setpoint • Hold-Up Time: 25msec min. at full rated load and nominal AC input voltage • Min. Load: Third quarter down to zero load.

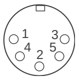
Approved by all major regulatory agencies

OUTPUT PIN CONFIGURATION-5 PIN DIN					
Single Output Model					
MODEL	**PIN 1**	**PIN 2**	**PIN 3**	**PIN 4**	**PIN 5**
WRI3012	COM	COM	12V	COM	12V
WRI4212	COM	COM	12V	COM	12V
WRI4214	COM	COM	24V	COM	24V
WRI5215	COM	COM	30V	COM	30V
Dual Output Model					
MODEL	**PIN 1**	**PIN 2**	**PIN 3**	**PIN 4**	**PIN 5**
WRI3021	COM	COM	5V	COM	12V
WRI4221	COM	COM	5V	COM	12V
Triple Output Model					
MODEL	**PIN 1**	**PIN 2**	**PIN 3**	**PIN 4**	**PIN 5**
WRI2731	COM	COM	5V	-12V	12V
WRI3031	COM	COM	5V	-12V	12V
WRI4231	COM	COM	5V	-12V	12V
WRI4232	COM	COM	5V	-12V	12V

Regulated Wallmounts



DIN PINOUT MATRIX					
MODEL	**PIN 1**	**PIN 2**	**PIN 3**	**PIN 4**	**PIN 5**
WM053	COM	N/C	5V	-5V	12V
WM063	COM	N/C	5V	-12V	12V
WM075	COM	N/C	5V	COM	5V
WM093	COM	N/C	5V	-5V	12V
WM112	COM	N/C	5V	COM	12V
WM113	COM	N/C	5V	-12V	12V
WM144	COM	N/C	12V	COM	12V



Features: • UL 1310 & UL 1950 listed, CSA Approved • One year warranty

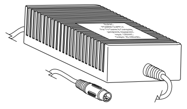
Specifications: • Output Ripple: 20 millivolts (p-p) • Operating Temperature: 0°C to +40°C • Combined Regulation: ±5% • Fusing: Internal & non-replaceable

Options: • Shielded output cable - S Option: Shielded cable with EMI ground tied to outer ring of DIN connector (Not to be used as safety ground)

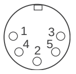
Connector Type: Din, except for WM025 which is Switchcraft Plug 760.

UL and CSA Approved

Regulated Tabletops



DIN PINOUT MATRIX					
MODEL	**PIN 1**	**PIN 2**	**PIN 3**	**PIN 4**	**PIN 5**
WM100★	-5V	N/C	5V	COM	COM
WM113TT	COM	N/C	5V	-12V	12V
WM220-1	COM	N/C	5V	-12V	12V



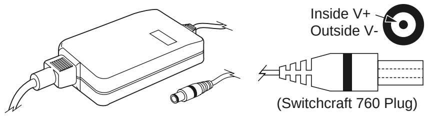
Features: • UL 1310 listed, CSA Approved • One year warranty

Specifications: • Output Ripple: 20 millivolts (p-p) • Operating Temp.: 0°C to +40°C • Combined Regulation: ±5% • Fusing: Internal & non-replaceable

Options: • ***Shielded output cable - S Option***: Shielded cable with EMI ground tied to outer ring of DIN connector (Not to be used as safety ground) • Connector Type: Din.

UL and CSA Approved
★ CSA Approved Only

Switching MIADA Series
(Notebook Style)



(Switchcraft 760 Plug)

Input Specifications: • A/C Input: 95-250VAC, 47/63Hz via IEC input connector • Input Protection: Input line fuse provided • Inrush Current: Internally limited by thermistor. Cold start, peak current at 250VAC, 25 amps max.

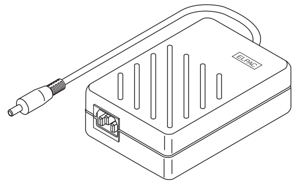
Output Specifications: • Line Regulation: ±.2% over 90-132 or 180-250 • Load Regulation: ±5% for ±40% load variation (60% nominal) • Min. load: 0 watts • Ripple & Noise: ±1% PK-PK max. • Overload Protection: Automatic Recovery • Overvoltage Protection: 115-140%

General Specifications: • Storage Temp.: -55°C to +85°C • Operating Temp.: 0°C to +40°C • EMI: FCC B/VDE B • Input Connector: IEC 320 Series

UL, CSA & TUV Approved

TUV

MW40 Series - Medical Adapters



Features: • 3-pin IEC 320 inlet • Output connector: barrel type (5.5mm x 2.5mm x 9.5mm) • Wide range AC input • Level B EMI filter • Fully regulated output • White in color

Input Specifications: • 100-240VAC • Frequency: 50/60 Hz

Output Specifications: • Line Regulation: 0.2% max. • Load Regulation: 5% max. • Short circuit protected • Ripple & Noise (VP-P): ±0.5%

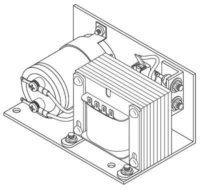
Safety Approvals: • UL2601 • CSA 601 • IEC 601-1

AC Input	DC Outputs Single	Double	Triple	Max. Watts	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	5	10	Elpac Part No.
Wide Range Input Series-Regulated Tabletops										
90-250VAC, 47-440Hz	12V, 2.5A	—	—	30†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS107-ND	110.00	99.00	91.30	WRI3012-D5
	12V, 3.5A	—	—	42†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS112-ND	107.00	96.30	88.81	WRI4212-D5
	24V, 1.75A	—	—	42†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS113-ND	114.00	102.60	94.62	WRI4214-D5
	30V, 1.75A	—	—	52†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS117-ND	180.00	162.00	149.40	WRI5215-D5
	5V, 2.0A	12V, 1.5/2.5A*	—	30	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS109-ND	118.00	106.20	97.94	WRI3021-D5
	5V, 3.0A	12V, 2.5/4.0A*	—	42	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS114-ND	118.00	106.20	97.94	WRI4221-D5
	5V, 3.0A	12V, 0.5A	-12V, 0.5A	27††	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS106-ND	128.00	115.20	106.24	WRI2731-D5
	5V, 2.0A	12V, 1.5/2.5A*	-12V, 0.5A	30	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS111-ND	124.00	111.60	102.92	WRI3031-D5
	5V, 3.0A	12V, 2.5/4.0A*	-12V, 0.5A	42	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS115-ND	124.00	111.60	102.92	WRI4231-D5
	5V, 4.8A	12V, 1.5/2.5A*	-12V, 0.5A	42	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS116-ND	124.00	111.60	102.92	WRI4232-D5
Regulated Wallmounts										
115VAC, 60Hz	5V, 600mA	+12V, 180mA	-12V, 160mA	6.8	1.80 x 2.60 x 4.50 (45.72 x 66.04 x 114.30)	EPS142-ND	41.00	36.90	34.03	WM063-1950-D5
	5V, 1.5A	—	—	7.5	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS143-ND	40.00	36.00	33.20	WM075-1950-D5
	5V, 800mA	12V, 700mA	—	12.4	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS125-ND	53.00	47.70	43.99	WM112-D5
	5V, 860mA	-12V, 300mA	12V, 300mA	11.3	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS126-ND	41.00	36.90	34.03	WM113-D5
	5V, 860mA	-12V, 300mA	12V, 300mA	11.3	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS127-ND	45.00	40.50	37.35	WM113-S
	12V, 1.2A	—	—	14.4	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS145-ND	44.00	39.60	36.52	WM144-1950-S
Regulated Tabletops										
115VAC, 60Hz	5V, 1.0A	-5V, 1.0A	—	10	2.66 x 3.82 x 6.30 (67.56 x 97.03 x 160.02)	EPS130-ND	52.00	46.80	43.16	WM100-S
	5V, 860mA	+12V, 300mA	12V, 300mA	11.3	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS131-ND	52.00	46.80	43.16	WM113TT
	5V, 2.0A	-12V, 500mA	12V, 500mA	22	2.28 x 3.10 x 5.025 (57.91 x 78.74 x 127.64)	EPS134-ND	86.00	77.40	71.38	WM220-1
MIADA Series										
95-250VAC, 47/63Hz	12V, 2.17A	—	—	26	3.0 x 5.0 x 1.31 (76.20 x 127.00 x 33.27)	EPS101-ND	90.00	81.00	74.70	MI2612-760
	15V, 1.9A	—	—	28	3.0 x 5.0 x 1.31 (76.20 x 127.00 x 33.27)	EPS102-ND	90.00	81.00	74.70	MI2815-760
	18V, 1.56A	—	—	28	3.0 x 5.0 x 1.31 (76.20 x 127.00 x 33.27)	EPS103-ND	90.00	81.00	74.70	MI2818-760
	24V, 1.17A	—	—	28	3.0 x 5.0 x 1.31 (76.20 x 127.00 x 33.27)	EPS104-ND	90.00	81.00	74.70	MI2824-760
Medical Adapters (requires power cord Q132 or Q133)										
100-240VAC, 50/60Hz	12V, 3.3A	—	—	40	5.0 x 3.0 x 1.3 (127.00 x 76.20 x 33.02)	EPS180-ND	104.00	93.60	86.32	MW4012-760-NC
	15V, 2.6A	—	—	40	5.0 x 3.0 x 1.3 (127.00 x 76.20 x 33.02)	EPS181-ND	104.00	93.60	86.32	MW4015-760-NC
	18V, 2.2A	—	—	40	5.0 x 3.0 x 1.3 (127.00 x 76.20 x 33.02)	EPS182-ND	104.00	93.60	86.32	MW4018-760-NC
	24V, 1.67A	—	—	40	5.0 x 3.0 x 1.3 (127.00 x 76.20 x 33.02)	EPS183-ND	104.00	93.60	86.32	MW4024-760-NC

† Min. load on models=8 Watts †† Min. load on models=2 Watts * Max. Peak

Unregulated Brute Force Linear Power Supplies

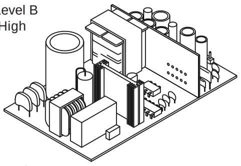
Features: • Isolated outputs for positive or negative operation • Full rated output from 0°C to +40°C • Selectable input terminations • Standard Input: 105/115/125 VAC, 47-440 Hz • Warranty: 5 years



Vdc	Amps	Max. Watts	No Load (V)	Full Load (V)	Dimensions - Inch (mm) L x W x H	Weight (lbs)	Digi-Key Part No.	Price Each 1	5	10	Elpac Part No.
24	2.4	60	34.5	26.5	6.3 x 3 x 3.7 (160.02 x 76.2 x 93.98)	5	EPS300-ND	194.00	174.60	161.02	BFS60-24
12	7	100	15.2	12.5	7.1 x 3.3 x 3.8 (180.34 x 83.82 x 96.52)	6	EPS301-ND	136.00	122.40	112.88	BFS100-12
24	3.5	100	30.5	25.5	7.1 x 3.3 x 3.8 (180.34 x 83.82 x 96.52)	6	EPS302-ND	136.00	122.40	112.88	BFS100-24
48	1.8	100	56.2	48	7.1 x 3.3 x 3.8 (180.34 x 83.82 x 96.52)	6	EPS303-ND	136.00	122.40	112.88	BFS100-48
12	15	200	15.4	12.5	8.1 x 3.9 x 5 (205.74 x 99.06 x 127)	12	EPS304-ND	184.00	165.60	152.72	BFS200-12
24	7.5	200	32.2	27.3	8.1 x 3.9 x 5 (205.74 x 99.06 x 127)	12	EPS305-ND	184.00	165.60	152.72	BFS200-24
24	20	500	29.2	24.6	9 x 4.6 x 5.6 (228.6 x 116.84 x 142.24)	20	EPS306-ND	272.00	244.80	225.76	BFS500-24
48	10	500	56.6	48.4	9 x 4.6 x 5.6 (228.6 x 116.84 x 142.24)	20	EPS307-ND	272.00	244.80	225.76	BFS500-48

ELPAC POWER SYSTEMS

Open Frame Power Supplies OS40 Series



FEATURES: • Wide range AC input • Level B EMI filter • Fully regulated output • High efficiency

SPECIFICATIONS: Input: • Voltage: 90-254 VAC • Current: 1.5A maximum • Frequency: 47-63 Hz **Requires 20% load on primary output. Environmental:** • Operating Temperature: 0°C to 50°C • Storage Temperature: -20°C to +80°C

EMI: • Meets FCC class B, CISPR 22 class B **Mechanical:** • Size: 5.01" x 2.99" x 1.27" (127.25mm x 75.95mm x 32.26mm) **Safety:** • UL1950 • CSA 22.2 No. 950 • EN60950 • IEC950

MATES WITH: • **Connectors** – WM2101-ND and WM2104-ND • **Contacts** – WM2300-ND

DC Outputs			Maximum Power	Digi-Key Part No.	Price Each			Elpac Part No.
Single	Double	Triple			1	5	10	
Single Output								
15V @ 2.7A	—	—	40W	EPS187-ND	36.44	32.80	30.25	OS40-115
Dual Output								
5V @ 5A	12V @ 1A	—	40W	EPS189-ND	37.58	33.83	31.20	OS40-201
5V @ 5A	24V @ 0.5A	—	40W	EPS190-ND	37.58	33.83	31.20	OS40-202
5V @ 8A	12V @ 0.6A	—	47W	EPS191-ND	37.58	33.83	31.20	OS40-203
Triple Output								
5V @ 3A	12V @ 2A	-12V @ 0.3A	40W	EPS193-ND	38.72	34.85	32.14	OS40-302
5V @ 5A	12V @ 1A	-12V @ 0.3A	40W	EPS194-ND	38.72	34.85	32.14	OS40-303

AC Adapters

Fig. 1

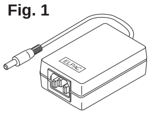


Fig. 2

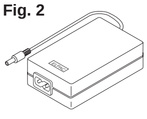
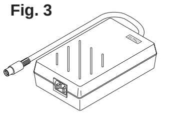


Fig. 3



DIN PINOUT MATRIX					
POLARITY	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
W4221	COM	COM	+5V	COM	+12V
W4231	COM	COM	+5V	-12V	+12V
W4232	COM	COM	+5V	-12V	+12V

Fig. 4

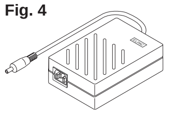


Fig. 5

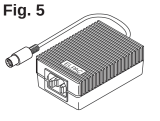
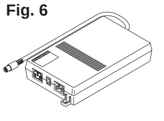


Fig. 6

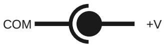


International

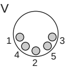
Features:
• 95-250 VAC (W08 Series: 100-240VAC; W24 Series: 90-265VAC); 47-63Hz Input • IEC 320 Input connector for worldwide use • Input protected VIA internal line fuse • Ripple & Noise: ±1% PK-PK max. • Overload Protection: All outputs protected-auto recovery • Operating Temperature Range: 0°C to 40°C • Output Cable - 6 foot - 760 standard (ID=2.5mm /OD=5.5mm/Barrel length 10mm/inside positive) or 5-pin DIN as shown • Two-year warranty

Agency Approvals:

• UL1012 Listed • CSA Certified to 22.2 No. 223 • TUV Licensed, IEC 950 • CE Certified • FCC/VDE Class B Emissions **(W08 Series:** UL listed to UL1950, cUL listed to CSA950, CE-Marked, TUV licensed to EN 60950).



760 Plug



5-pin DIN

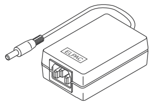
Fig.	DC Outputs			Max. Power	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
	Single	Double	Triple				1	5	10	
Desk Mount - International Power Supply										
1	5V @ 1.6A	—	—	8W	3.35 x 1.97 x 1.30 (85.09 x 50.04 x 33.02)	EPS200-ND	34.24	30.82	28.42	W0805-760
	12V @ 0.67A	—	—	8W	3.35 x 1.97 x 1.30 (85.09 x 50.04 x 33.02)	EPS201-ND	34.24	30.82	28.42	W0812-760
1	5V @ 2.5A	—	—	13W	3.30 x 2.00 x 1.30 (83.82 x 50.80 x 33.02)	EPS165-ND	42.80	38.52	35.53	W1505-760
	12V @ 1.25A	—	—	15W	3.30 x 2.00 x 1.30 (83.82 x 50.80 x 33.02)	EPS166-ND	42.80	38.52	35.53	W1512-760
2	12V @ 4.0A	—	—	48W	4.10 x 2.20 x 1.20 (104.14 x 55.88 x 30.48)	EPS168-ND	82.80	74.52	68.73	W4012-760
	24V @ 2.1A	—	—	50W	4.10 x 2.20 x 1.20 (104.14 x 55.88 x 30.48)	EPS169-ND*	82.80	74.52	68.73	W4024-760
3	5V @ 3.0A	12V @ 2.5A	—	42W	5.80 x 3.30 x 1.50 (147.32 x 83.82 x 38.10)	EPS170-ND	138.00	124.20	114.54	W4221-D5
	5V @ 3.0A	12V @ 1.5A	-12V @ 0.5A	42W	5.80 x 3.30 x 1.50 (147.32 x 83.82 x 38.10)	EPS171-ND	138.00	124.20	114.54	W4231-D5
	5V @ 4.8A	12V @ 1.5A	-12V @ 0.5A	42W	5.80 x 3.30 x 1.50 (147.32 x 83.82 x 38.10)	EPS172-ND	138.00	124.20	114.54	W4232-D5
4	12V @ 1.7A	—	—	20W	4.30 x 2.30 x 1.30 (109.22 x 58.42 x 33.02)	EPS174-ND	47.28	42.56	39.25	M42012-760
5	12V @ 6.0A	—	—	72W	6.50 x 3.86 x 2.60 (165.10 x 98.04 x 66.04)	EPS175-ND	100.00	90.00	83.00	W7212-D5
	24V @ 3.0A	—	—	72W	6.50 x 3.86 x 2.60 (165.10 x 98.04 x 66.04)	EPS176-ND	100.00	90.00	83.00	W7224-D5
Panel Mount - International Power Supply										
6	12V @ 8.3A	—	—	100W	11.10 x 6.90 x 1.80 (281.94 x 175.26 x 45.72)	EPS177-ND†	203.66	183.30	169.04	W100-11
	24V @ 4.2A	—	—	100W	11.10 x 6.90 x 1.80 (281.94 x 175.26 x 45.72)	EPS178-ND†	203.66	183.30	169.04	W100-13

* Minimum load of 2 watts required to fully regulated . † Minimum load of 20 watts required to fully regulate.

FW Series

Features: Wide range AC input. Fully enclosed plastic case. Fully regulated output. High efficiency. Five year Warranty. Operating temperature: 0° to 40°C. Storage temperature: -55° to 85°C. **EMI:** Meets FCC class B, CISPR 22 class B. **Safety:** UL1950 CSA22.2 No. 950 EN60950 CE Marked. Series : FW18, 30, and 50 center conductor positive.

DIN PINOUT MATRIX					
POLARITY	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
FW72	COM	COM	+V	COM	+V
FW100	COM	COM	+V	COM	+V



DC Outputs Single	Max. Power	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
				1	5	10	
FW 18 Series							
5V @ 3A	15W	3.35 x 1.97 x 1.30 (85.0 x 50.0 x 33.0)	EPS262-ND	33.08	29.78	27.46	FW1805-760
12V @ 1.5A	18W	3.3 5 x 1.97 x 1.30 (85.0 x 50.0 x 33.0)	EPS263-ND	32.56	29.31	27.03	FW1812-760
24V @ 0.75A	18W	3.3 5 x 1.97 x 1.30 (85.0 x 50.0 x 33.0)	EPS264-ND	32.56	29.31	27.03	FW1824-760
FW 30 Series							
12V @ 2.5A	30W	4.25 x 2.50 x 1.30 (108.0 x 64.5 x 33.0)	EPS265-ND	46.80	42.12	38.85	FW3012-760
15V @ 2.0A	30W	4.25 x 2.50 x 1.30 (108.0 x 64.5 x 33.0)	EPS266-ND	46.80	42.12	38.85	FW3015-760
24V @ 1.25A	30W	4.25 x 2.50 x 1.30 (108.0 x 64.5 x 33.0)	EPS267-ND	46.80	42.12	38.85	FW3024-760
FW 50 Series							
12V @ 4.15A	50W	5.0 x 3.0 x 1.30 (127.0 x 76.2 x 33.0)	EPS268-ND	54.00	48.60	44.82	FW5012-760
24V @ 2.10A	50W	5.0 x 3.0 x 1.30 (127.0 x 76.2 x 33.0)	EPS269-ND	54.00	48.60	44.82	FW5024-760
FW 72 Series - 5 Pin DIN							
12V @ 6.0A	72W	6.50 x 3.85 x 2.60 (165.0 x 98.0 x 66.0)	EPS270-ND	70.82	63.74	58.79	FW7212-D5
24V @ 3.0A	72W	6.50 x 3.85 x 2.60 (165.0 x 98.0 x 66.0)	EPS271-ND	70.82	63.74	58.79	FW7224-D5
FW 100 Series - 5 Pin DIN							
24V @ 4.0A	96W	6.50 x 3.85 x 2.60 (165.0 x 98.0 x 66.0)	EPS273-ND	72.78	65.51	60.41	FW10024-D5

Domestic

WP06 and WP11 Series: • **Input Voltage:** 100-240 VAC (wide range) • **Current:** 0.2 Amp • **Frequency:** 47-63Hz • **Short Circuit Protection:** Pulsing mode, auto recovery • **Operating Temperature Range:** 0°C to +40°C • **EMI:** Meets FCC class B, CISPR 22 class B • **Agency Approvals:** UL 1950, cUL Listed to CSA 22.2

WP12 Series: • **A/C Input:** 90-132VAC • **Input Protection:** Internal input line fuse • **Overload Protection:** Output protected against overload and short circuit • **Min. Load:** 0 Watts • **Operating Temperature Range:** 0°C to +40°C • **Output Cable:** 6 foot with 760 type barrel plug; ID = 2.5mm, OD = 5.5mm, Barrel Length 10.00mm - Inside Positive • **Two-Year Warranty** • **Agency Approvals:** NRTL (UL) and CSA • **EMI:** FCC Class B

Fig.	DC Outputs Single	Max. Power	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
					1	5	10	
Wall Mount - Domestic Power Supply								
1	5V @ 1.2A	6W	2.25 x 1.88 x 1.03 (57.15 x 58.42 x 26.16)	EPS197-ND	29.96	26.97	24.87	WP0605-760
	12V @ 0.5A	6W	2.25 x 1.88 x 1.03 (57.15 x 58.42 x 26.16)	EPS198-ND	31.04	27.94	25.77	WP0612-760
	5V @ 1.5A	8W	2.20 x 1.80 x 1.10 (55.88 x 45.72 x 27.94)	EPS160-ND	31.04	27.94	25.77	WP1105-760
	12V @ 0.8A	10W	2.20 x 1.80 x 1.10 (55.88 x 45.72 x 27.94)	EPS161-ND	32.10	28.89	26.65	WP1112-760
2	5V @ 2.4A	12W	3.00 x 2.00 x 1.00 (76.20 x 50.80 x 25.40)	EPS162-ND	32.50	29.25	26.98	WP1205-760
	12V @ 1A	12W	3.00 x 2.00 x 1.00 (76.20 x 50.80 x 25.40)	EPS163-ND	32.50	29.25	26.98	WP1212-760
	24V @ 0.5A	12W	3.60 x 2.30 x 1.30 (91.44 x 58.42 x 33.02)	EPS164-ND	82.80	74.52	68.73	WP1224-760

**Fig. 1 —
WP06 and WP11 Series**

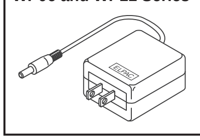
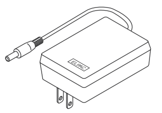


**Fig. 2 —
WP12 Series**



CUI INC

Wall Transformers and Power Supplies

- Cord Lengths are 6 feet (1.83 meters); T805 has a 4 foot (1.22 meter) cord.
- All transformers are UL listed and most are also CSA approved.
- **For Connectors and Mating Connectors refer to the Connector Section**

Fig. 1 — US/Canada Transformer

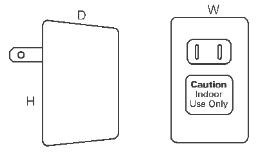


Fig. 2 — European Transformer TUV Approved

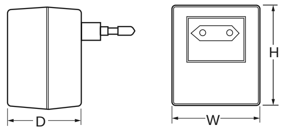
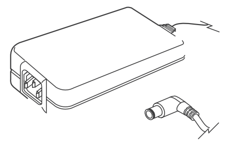


Fig. 3 — Switching Desk-Top Power Supply

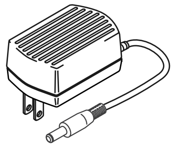


SPECIFICATIONS: • **AC Input Voltage Range:** 90VAC to 264VAC Universal • **AC Input Frequency:** 47 Hz to 63 Hz • **Maximum In-rush Current:** 26 A max @ 115 VAC, 50 A max @ 230 VAC at 25°C ambient cold start • **Minimum Load Current:** 0A • **Output Ripple and Noise:** 5V = 50 mVP-P, 12V = 120mVP-P, 24V = 240mVP-P • **Operating Temperature:** 0°C to 40°C

Safety Requirements: **(1)** UL 1950, **(2)** CSA 22.2, No. 950, **(3)** CSA 22.2, No. 234 LEVEL 3, **(4)** IEC 950 **(5)** TUV/CS, EN60950.

EMI Requirement: FCC class "B" rules. VDE 243/1991 class "B" rules

Fig. 4 — Switching Wall-Mount Power Supply



SPECIFICATIONS: • **AC Input Voltage Range:** 100VAC to 120 VAC (T930-ND & T931-ND: 100VAC to 264VAC Universal) • **AC Input Frequency:** 50 Hz to 60 Hz • **Switching Frequency:** 65KHz Typical • **Protection Type:** Short circuit protection • **Hold up time:** 16ms after loss of nominal AC input under full load condition • **Operating Temperature:** 0°C to 40°C

Safety Requirements: **(1)** UL 1950 **(2)** CSA 22.2 **(3)** TUV, EN60950 (T930-P5P-ND & T931- P5P-ND) **(4)** Comply with CE Directives (T930-P5P-ND & T931-P5P-ND).

Output: No Minimum Load

Fig. 5 — EI-28 Core Size Adapter

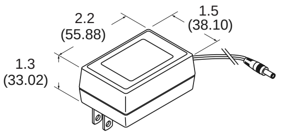
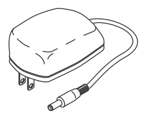


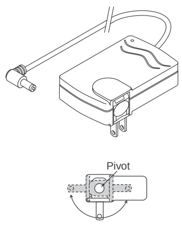
Fig. 6 — POWER PUP Thin, Low-Profile Case Wall Transformer



SPECIFICATIONS: • **AC Input Voltage:** 120VAC/60Hz • **Operating Temperature:** -10°C to 40°C • **Hi-Pot Test - 1mA for 1 Minute:** 1,500VAC Primary to Secondary and Primary to Core, 1,000VAC Secondary to Core • **Protection Type:** Thermal

Safety Requirements: • UL/cUL Approvals

Fig. 7 — 10 Watt Flip Out Series

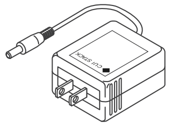


SPECIFICATIONS: • **AC Input Voltage Range:** 90VAC to 264VAC • **AC Input Frequency:** 47 Hz to 63 Hz • **Minimum Load Current:** 0A • **Total Regulations:** ±5%

FEATURES: • **Short Circuit:** Output equipped with short circuit protection, auto restart • **Over Voltage Protection:** 15.6V Maximum by Zener Diode Clamping • **Overload Protection:** Limited to 1.5 A typical (1.8A Maximum) at 240 VAC Input Voltage

Safety Requirements: • UL • cUL

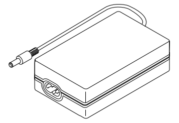
Fig. 8 — 10 Watt Power Strip Type



SPECIFICATIONS: • **Input Voltage:** AC90V-264V • **Frequency:** 50 Hz to 60Hz • **Minimum Load Current:** 0A • **Load Regulation:** ±5% • **Short Circuit and Overcurrent Protection:** Shutoff and Auto Restart

Safety Requirements: • UL • cUL

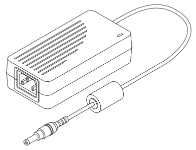
Fig. 9 — Small Desk-Top



SPECIFICATIONS: • **Input Voltage Range:** AC90V-264V • **Frequency:** 50 Hz to 60 Hz • **Load Regulation:** ±5% • **Minimum Load Current:** 0A • **Short Circuit and Overcurrent Protection:** Shutoff and Auto Restart

Safety Requirements: • UL • cUL • TUV • CE

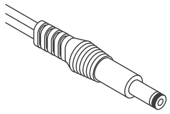
Fig. 10 — 60 Watt Desk-Top



SPECIFICATIONS: • **Input Voltage Range:** AC90V-264V • **Frequency:** 50 Hz to 60 Hz • **Load Regulation:** ±5% • **Minimum Load Current:** 0A • **Short Circuit and Overcurrent Protection:** Shutoff and Auto Restart

Safety Requirements: • UL • cUL • TUV • CE • DEMKO • FIMKO • SMEKO • NEMCO • LPS

Additional plug options



NOW AVAILABLE! Digi-Key can have CUI Inc. overmold a new P5, P6, or P7 plug onto ANY of the CUI power supplies we carry. If the power supply you want does not have the plug or polarity you need, you can get a new plug put on that looks like it came right out of the factory, without the full factory minimum order quantity or lead time.

Build part number:

DPS120125- ☐ ☐ ☐

Choose power supply from CUI Inc. stock
Z: special overmolding code — Z
5/6/7: Choose P5, P6, or P7 plug — 5 6 7
P or N: Choose center positive or center negative polarity — P N

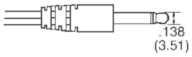
Turn around time: 2 weeks (subject to availabilty), including 100% testing.

Non-standard shaft lengths available upon special request.

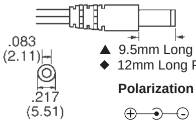
Minimum order: 100 pieces

P-1 (3.5mm Male)

Tip is Positive, Sleeve is Negative

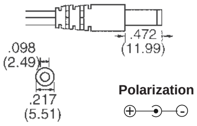


P-5 (2.1mm Female)

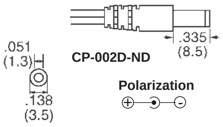


▲ 9.5mm Long Plugs
◆ 12mm Long Plugs

P-6 (2.5mm Female)

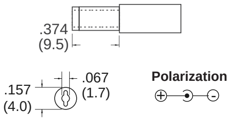


P-7 (1.3mm Female)



CP-002D-ND

P-13 (1.7mm Female)



	Ratings			Dimensions Inches (mm)	Cord	Digi-Key	Price Each				CUI Inc.
Fig.	Volt.	mA	Reg.	H x W x D	Plug	Part No.	1	10	50	100	Part No.
US/Canada Transformer 110VAC/60Hz Input											
1	5VDC	300	5%	2.38 x 2.00 x 1.65 (60.45 x 50.80 x 41.91)	P-6	T309-P6P-ND	8.10	6.48	5.67	5.38	DPR050030-P6P
	5VDC	1000	5%	3.35 x 2.68 x 2.20 (85.09 x 68.07 x 55.88)	P-1	T310-P1P-ND•	18.83	15.06	13.18	12.50	DTR050100-P1P
	5VDC	1500	5%	4.72 x 3.07 x 2.48 (119.89 x 77.98 x 62.99)	P-5◆	T311-P5P-ND•	46.78	37.42	32.75	24.89	DTR050150-P5P
	5.5VDC	500	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-1	T301-P1P-ND	5.95	4.76	4.17	3.17	DPD055050-P1P
	6VDC	200	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	P-1	T305-P1P-ND	4.23	3.38	2.96	2.81	DPD060020-P1P-SZ
	6VDC	500	No	2.32 x 1.97 x 1.63 (58.93 x 50.04 x 41.40)	P-1	T307-P1P-ND	4.68	3.74	3.28	3.11	DPD060050-P1P-SZ
	9VDC	100	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	P-1	T406-P1P-ND	4.03	3.22	2.82	2.68	DPD090010-P1P-SZ
	9VDC	200	No	2.19 x 1.69 x 1.48 (55.63 x 42.93 x 37.59)	P-1	T401-P1P-ND	4.18	3.34	2.93	2.78	DPD090020-P1P
	9VDC	200	No	2.19 x 1.69 x 1.48 (55.63 x 42.93 x 37.59)	P-5◆	T402-P5P-ND	4.18	3.34	2.93	2.78	DPD090020-P5P
	9VDC	300	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	P-1	T407-P1P-ND	4.30	3.44	3.01	2.86	DPD090030-P1P-SZ
	9VDC	500	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-1	T403-P1P-ND	5.08	4.06	3.56	3.37	DPD090050-P1P
	9VDC	500	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-5◆	T405-P5P-ND	5.08	4.06	3.56	3.37	DPD090050-P5P
	9VDC	650	No	2.59 x 1.96 x 1.59 (66.00 x 50.00 x 40.50)	P-5▲	T514-P5P-ND	6.10	4.88	4.27	4.06	DPD090065-P5P-SZ
	9VDC	800	5%	2.38 x 2.38 x 1.91 (60.45 x 60.45 x 48.51)	P-5◆	T410-P5P-ND	13.08	10.46	9.16	8.69	DPR090080-P5P
	9VDC	1000	No	2.38 x 2.38 x 1.91 (60.45 x 60.45 x 48.51)	P-1	T404-P1P-ND	7.48	5.98	5.24	4.97	DPD090100-P1P
	12VDC	50	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	P-1	T508-P1P-ND	3.78	3.59	3.14	2.88	DPD120005-P1P-SZ
		200	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	P-1	T509-P1P-ND	4.35	3.48	3.05	2.89	DPD120020-P1P-SZ
		300	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-1	T501-P1P-ND	5.08	4.06	3.56	2.70	DPD120030-P1P
		300	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-5◆	T505-P5P-ND	5.08	4.06	3.56	3.25	DPD120030-P5P
		500	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-1	T502-P1P-ND	5.48	4.38	3.84	3.64	DPD120050-P1P
	12VDC	500	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-5◆	T506-P5P-ND	5.48	4.38	3.84	3.64	DPD120050-P5P
		800	No	2.38 x 2.38 x 1.91 (60.45 x 60.45 x 48.51)	P-1	T503-P1P-ND	6.48	5.18	4.54	4.30	DPD120080-P1P
		800	No	2.38 x 2.38 x 1.91 (60.45 x 60.45 x 48.51)	P-5◆	T507-P5P-ND	6.48	5.18	4.54	4.30	DPD120080-P5P

• Table Top Style † "S/T" = Stripped/Tinned ‡ AC Cord Included § Center Tapped †† AC Input Voltage Range: 90VAC to 265VAC Universal ▲ 9.5mm Long Plugs ◆ 12mm Long Plugs *(Continued)*

Wall Transformers and Power Supplies *(Cont.)*

	Ratings			Dimensions Inches (mm)	Cord	Digi-Key	Price Each				CUI Inc.
Fig.	Volt.	mA	Reg.	H x W x D	Plug	Part No.	1	10	50	100	Part No.
1	24VDC	400	No	2.38 x 2.38 x 1.91 (60.45 x 60.45 x 48.51)	P-1	T521-P1P-ND	7.88	6.30	5.52	5.23	DPD240040-P1P
		400	No	2.38 x 2.38 x 1.91 (60.45 x 60.45 x 48.51)	P-6	T520-P6P-ND	7.88	6.30	5.52	5.23	DPD240040-P6P
	9VAC	100	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	S/T	T701-ND†	3.98	3.18	2.79	2.64	DPA090010-S/T-SZ
		600	No	2.32 x 1.99 x 1.61 (58.93 x 50.55 x 40.89)	S/T	T702-ND†	5.30	4.24	3.71	3.52	DPA090060-S/T-SZ
	12VAC	300	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	S/T	T601-ND†	4.13	3.30	2.89	2.74	DPA120030-S/T-SZ
		400	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	S/T	T611-ND†	4.88	4.64	4.05	3.72	DPA120040-S/T-SZ
		500	No	2.32 x 1.99 x 1.61 (58.93 x 50.55 x 40.89)	S/T	T612-ND†	5.40	4.32	3.78	3.59	DPA120050-S/T-SZ
		600	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	S/T	T602-ND†	4.90	3.92	3.43	3.26	DPA120060-S/T
		1000	No	2.76 x 1.97 x 1.54 (70.10 x 50.04 x 39.12)	S/T	T603-ND†	5.48	4.38	3.84	3.64	DPA120100-S/T
		1500	No	3.20 x 2.21 x 1.89 (81.28 x 56.13 x 48.01)	S/T	T613-ND†	13.38	10.70	9.37	8.89	DPA120150-S/T
		2000	No	3.30 x 2.48 x 2.16 (83.82 x 62.99 x 54.86)	S/T	T604-ND†	14.28	11.42	10.00	9.48	DPA120200-S/T
		3300	No	3.50 x 2.68 x 2.16 (88.90 x 68.07 x 54.86)	S/T	T605-ND§†	23.60	18.88	16.52	15.68	DPA120333C-S/T
		200	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	P-1	T606-ND	4.05	3.24	2.84	2.69	DPA120020-P1-SZ
		600	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-1	T607-P1P-ND	4.90	3.92	3.43	3.26	DPA120060-P1P
		1000	No	2.75 x 1.97 x 1.54 (69.85 x 50.04 x 39.12)	P-1	T608-P1P-ND	5.48	4.38	3.84	3.64	DPA120100-P1P
		2000	No	3.30 x 2.48 x 2.16 (83.82 x 62.99 x 54.86)	P-1	T609-P1P-ND	14.28	11.42	10.00	9.48	DPA120200-P1P
	24VAC	1670	No	3.50 x 2.68 x 2.16 (88.90 x 68.07 x 54.86)	S/T	T620-ND§†	23.60	18.88	16.52	15.68	DPA240167C-S/T
European Transformer 220VAC/50Hz Input											
2	9VDC	500	No	2.32 x 1.99 x 1.61 (58.93 x 50.55 x 40.89)	P-5◆	T408-P5P-ND	6.88	5.50	4.82	4.57	DPD090050E-P5P
	12VDC	800	No	3.19 x 2.20 x 1.89 (81.03 x 55.88 x 48.01)	P-5◆	T511-P5P-ND	10.80	8.64	7.56	7.18	DPD120080E-P5P
Switching Desk-Top Power Supply											
3	5VDC	2400	5%	1.38 x 1.97 x 3.94 (35.05 x 50.04 x 100.08)	P-5◆	T805-P5P-ND‡	19.30	15.45	13.52	12.87	DTS050240U/AC1-P5P
	12VDC	1500	5%	1.38 x 1.97 x 3.94 (35.05 x 50.04 x 100.08)	P-5◆	T806-P5P-ND‡	19.30	15.45	13.52	12.87	DTS120150U/AC1-P5P
Switching Wall-Mount Power Supply											
4	5VDC	2400	5%	1.38 x 2.09 x 3.19 (35.05 x 53.09 x 81.03)	P-5◆	T920-P5P-ND	14.03	11.22	9.82	9.35	DPS050240-P5P
	6VDC	2000	5%	1.38 x 2.09 x 3.19 (35.05 x 53.09 x 81.03)	P-5◆	T921-P5P-ND	14.03	11.22	9.82	9.35	DPS060200-P5P
	9VDC	1500	5%	1.38 x 2.09 x 3.19 (35.05 x 53.09 x 81.03)	P-5◆	T922-P5P-ND	14.03	11.22	9.82	9.35	DPS090150-P5P
	12VDC	1250	5%	1.38 x 2.09 x 3.19 (35.05 x 53.09 x 81.03)	P-5◆	T923-P5P-ND	14.03	11.22	9.82	9.35	DPS120125-P5P
	15VDC	1000	5%	1.38 x 2.09 x 3.19 (35.05 x 53.09 x 81.03)	P-5◆	T924-P5P-ND	14.03	11.22	9.82	9.35	DPS150100-P5P
	5VDC	2800	5%	1.65 x 2.09 x 3.19 (41.91 x 53.09 x 81.03)	P-5◆	T930-P5P-ND††	15.30	12.24	10.71	10.20	DPS050280U-P5P
	12VDC	1500	5%	1.65 x 2.09 x 3.19 (41.91 x 53.09 x 81.03)	P-5◆	T931-P5P-ND††	15.30	12.24	10.71	10.20	DPS120150U-P5P
	24VDC	750	5%	1.61 x 2.09 x 3.19 (40.89 x 53.09 x 81.03)	P-5◆	T932-P5P-ND††	15.30	12.24	10.71	10.20	DPS240075U-P5P
EI-28 Core Size Adapters											
5	3VDC	400	No	2.2 x 1.5 x 1.33 (55.88 x 38.10 x 33.78)	P-7	T201-P7P-ND	4.77	3.98	2.79	2.64	DPD030040-P7P-DK
	4.5VDC	300	No	2.2 x 1.5 x 1.33 (55.88 x 38.10 x 33.78)	P-7	T202-P7P-ND	4.86	4.05	2.84	2.69	DPD045030-P7P-DK
	6VDC	250	No	2.2 x 1.5 x 1.33 (55.88 x 38.10 x 33.78)	P-7	T203-P7P-ND	5.01	4.18	2.93	2.78	DPD060025-P7P-DK
	9VDC	150	No	2.2 x 1.5 x 1.33 (55.88 x 38.10 x 33.78)	P-7	T205-P7P-ND	4.86	4.05	2.84	2.69	DPD090015-P7P-DK
	12VDC	100	No	2.2 x 1.5 x 1.33 (55.88 x 38.10 x 33.78)	P-7	T206-P7P-ND	4.77	3.98	2.79	2.64	DPD120010-P7P-DK
POWER PUP											
6	5VDC	550	No	2.63 x 1.65 x 1.17 (66.7 x 41.8 x 29.6)	P-13	T312-P13P-ND	5.95	4.76	4.17	3.96	DPD050055-P13P-TC
	9VDC	200	No	2.63 x 1.65 x 1.17 (66.7 x 41.8 x 29.6)	P-5◆	T412-P5P-ND	4.18	3.34	2.93	2.78	DPD090020-P5P-TC
	9VDC	500	No	3.07 x 1.91 x 1.33 (78 x 48.5 x 33.9)	P-5◆	T413-P5P-ND	5.08	4.06	3.56	3.37	DPD090050-P5P-TC
	9VDC	1000	No	3.7 x 2.32 x 1.81 (94 x 59 x 46)	P-5◆	T414-P5P-ND	7.48	5.98	5.24	4.97	DPD090100-P5P-TC
	12VDC	300	No	3.07 x 1.91 x 1.33 (78 x 48.5 x 33.9)	P-13	T510-P13P-ND	5.08	4.06	3.56	3.37	DPD120030-P13P-TC
	12VDC	500	No	3.07 x 1.91 x 1.33 (78 x 48.5 x 33.9)	P-5◆	T512-P5P-ND	5.48	4.38	3.84	3.64	DPD120050-P5P-TC
	12VDC	800	No	3.72 x 2.32 x 1.81 (94.5 x 59 x 46)	P-5◆	T513-P5P-ND	6.48	5.18	4.54	4.30	DPD120080-P5P-TC
	12VAC	1000	No	3.72 x 2.32 x 1.81 (94.4 x 59 x 46)	P-5◆	T614-P5P-ND	6.98	5.58	4.89	4.64	DPA120100-P5P-TC
10 Watt Flip Out Series											
7	5VDC	2000	5%	3.35 x 2.13 x .78 (85 x 54 x 19.8)	P-5▲	T321-P5P-ND	35.50	28.40	24.86	23.68	DPS050200U-P5P-DF
	9VDC	1100	5%	3.35 x 2.13 x .78 (85 x 54 x 19.8)	P-5▲	T322-P5P-ND	35.50	28.40	24.86	23.68	DPS090110U-P5P-DF
	12VDC	830	5%	3.35 x 2.13 x .78 (85 x 54 x 19.8)	P-5▲	T323-P5P-ND	35.50	28.40	24.86	23.68	DPS120083U-P5P-DF
	15VDC	670	5%	3.35 x 2.13 x .78 (85 x 54 x 19.8)	P-5▲	T324-P5P-ND	35.50	28.40	24.86	23.68	DPS150067U-P5P-DF
	24VDC	420	5%	3.35 x 2.13 x .78 (85 x 54 x 19.8)	P-5▲	T325-P5P-ND	35.50	28.40	24.86	23.68	DPS240042U-P5P-DF
10 Watt Power Strip Type											
8	5VDC	2000	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T450-P5P-ND	15.88	12.70	11.12	10.59	DPS050200UPS-P5P
	6VDC	2000	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T451-P5P-ND	15.88	12.70	11.12	10.59	DPS060200UPS-P5P
	9VDC	1100	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T452-P5P-ND	15.88	12.70	11.12	10.59	DPS090110UPS-P5P
	12VDC	850	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T453-P5P-ND	15.88	12.70	11.12	10.59	DPS120085UPS-P5P
	18VDC	550	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T454-P5P-ND	15.88	12.70	11.12	10.59	DPS180055UPS-P5P
	24VDC	500	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T455-P5P-ND	15.88	12.70	11.12	10.59	DPS240050UPS-P5P
12 Watt Small Desk-Top											
9	5VDC	2500	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T850-P5P-ND‡	18.58	14.86	13.01	12.39	DTS050250SUDC-P5P
	6VDC	2000	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T851-P5P-ND‡	18.58	14.86	13.01	12.39	DTS060200SUDC-P5P
	9VDC	1330	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T852-P5P-ND‡	18.58	14.86	13.01	12.39	DTS090133SUDC-P5P
	12VDC	1000	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T853-P5P-ND‡	18.58	14.86	13.01	12.39	DTS120100SUDC-P5P
	18VDC	670	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T854-P5P-ND‡	18.58	14.86	13.01	12.39	DTS180067SUDC-P5P
	24VDC	500	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T855-P5P-ND‡	18.58	14.86	13.01	12.39	DTS240050SUDC-P5P
15 Watt Two-Prong Inlet Type											
9	5VDC	3000	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T550-P5P-ND‡	21.45	17.16	15.02	14.31	DTS050300UDC-P5P
	6VDC	2500	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T551-P5P-ND‡	21.45	17.16	15.02	14.31	DTS060250UDC-P5P
	9VDC	1660	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T552-P5P-ND‡	21.45	17.16	15.02	14.31	DTS090166UDC-P5P
	12VDC	1250	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T553-P5P-ND‡	21.45	17.16	15.02	14.31	DTS120125UDC-P5P
	24VDC	620	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T554-P5P-ND‡	21.45	17.16	15.02	14.31	DTS240062UDC-P5P
20 Watt Two-Prong Inlet Type											
9	5VDC	4000	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T560-P5P-ND‡	24.38	19.50	17.07	16.26	DTS050400UDC-P5P
	6VDC	3300	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T561-P5P-ND‡	24.38	19.50	17.07	16.26	DTS060330UDC-P5P
	9VDC	2200	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T562-P5P-ND‡	24.38	19.50	17.07	16.26	DTS090220UDC-P5P
	12VDC	1660	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T563-P5P-ND‡	24.38	19.50	17.07	16.26	DTS120166UDC-P5P
	15VDC	1330	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T564-P5P-ND‡	24.38	19.50	17.07	16.26	DTS150133UDC-P5P
	24VDC	830	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T565-P5P-ND‡	24.38	19.50	17.07	16.26	DTS240083UDC-P5P
30 Watt Low Cost / Desk-Top Series											
3	5VDC	4000	5%	4.33 x 2.36 x 1.34 (110 x 60 x 34)	P-5▲	T807-P5P-ND‡	59.63	47.70	41.76	29.82	DTS050400U2/AC1-P5P
	9VDC	2200	5%	4.33 x 2.36 x 1.34 (110 x 60 x 34)	P-5▲	T808-P5P-ND‡	59.63	47.70	41.76	29.82	DTS090220U2/AC1-P5P
	12VDC	2500	5%	3.86 x 1.97 x 1.10 (98 x 50 x 28)	P-5◆	T816-P5P-ND‡	31.13	24.90	21.80	20.76	DTS120250UTC-5P5
	15VDC	2000	5%	3.86 x 1.97 x 1.10 (98 x 50 x 28)	P-5◆	T818-P5P-ND‡	31.13	24.90	21.80	20.76	DTS150200UTC-P5P
	24VDC	1250	5%	3.86 x 1.97 x 1.10 (98 x 50 x 28)	P-5◆	T817-P5P-ND‡	31.13	24.90	21.80	20.76	DTS240125UTC-P5P
	48VDC	625	5%	4.33 x 2.36 x 1.34 (110 x 60 x 34)	P-5▲	T813-P5P-ND‡	59.63	47.70	41.76	39.76	DTS480063U2/AC1-P5P
60 Watt Desk-Top Series											
10	12VDC	5.0A	5%	4.76 x 2.36 x 1.36 (121 x 60 x 34.5)	P-5▲	T824-P5P-ND‡	37.95	34.50	30.19	28.75	DTS120500UC-P5-ET
	15VDC	4.0A	5%	4.76 x 2.36 x 1.36 (121 x 60 x 34.5)	P-5▲	T825-P5P-ND‡	37.95	34.50	30.19	28.75	DTS150400UC-P5-ET
	18VDC	3.3A	5%	4.76 x 2.36 x 1.36 (121 x 60 x 34.5)	P-5▲	T826-P5P-ND‡	37.95	34.50	30.19	28.75	DTS180330UC-P5-ET
	24VDC	2.5A	5%	4.76 x 2.36 x 1.36 (121 x 60 x 34.5)	P-5▲	T827-P5P-ND‡	37.95	34.50	30.19	28.75	DTS240250UC-P5-ET

• Table Top Style. † "S/T" = Stripped/Tinned. ‡ AC Cord Included. § Center Tapped. †† AC Input Voltage Range: 90VAC to 265VAC Universal. ▲ 9.5mm Long Plugs. ◆ 12mm Long Plugs.

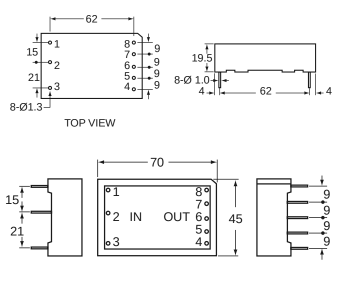
★ ***For additional plug options available, please call 1-800-344-4539 and request technical assistance to build your part number. A minimum order and lead time will apply.***

V·INFINITY
A CUI INC. COMPANY

AC-DC Converters – FSK15 Series

FEATURES:

- Encapsulated, compact case
- Industry standard pin out
- Universal input
- HI-POT tested
- Inrush current limiting
- Over-load protection
- Over-temp. protection
- Built-in EMI filter
- Fixed switching freq.
- High efficiency
- 2 year warranty



Pin Assignments
Single Output
1. FG 2. AC(N) 3. AC(L)
4. No pin 5. +Vout 6. No pin 7. -Vout 8. No pin

Input Voltage		
	Min.	Max.
AC	85	264
DC	110	340

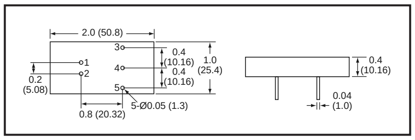
Output Power (Max.)	Output Volt.	Output Current (Max.)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
Single Output								
15.0W	5	3.0A	102-1164-ND	43.06	41.99	40.91	38.76	FSK-S15-5U
15.6W	12	1.3A	102-1165-ND	43.06	41.99	40.91	38.76	FSK-S15-12U
15.0W	15	1.0A	102-1166-ND	43.06	41.99	40.91	38.76	FSK-S15-15U
15.6W	24	0.65A	102-1167-ND	43.06	41.99	40.91	38.76	FSK-S15-24U

DC-DC Converters – PTK10 Series

FEATURES:

• Industry standard pin out • Wide 4:1 input range • Fully isolated • Over-current protection • Over-voltage protection • Agency Standards: Designed to meet, UL1950, EN60950, CISPR22, CE • Six-sided EMI shielding • Constant switching frequency • High efficiency • Compact size 2.0" x 1.0" x 0.4" • 3 year warranty

Pin Assignments	
Single Output	Dual Output
1. +Vin 2. -Vin	1. +Vin 2. -Vin
3. +Vout 4. No pin 5. -Vout	3. +Vout 4. Com 5. -Vout



Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part .No.	Price Each 1	10	25	50	V-Infinity Part No.
Single Output								
10-36	3.3	2.4A	102-1070-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S3
10-36	5	2.0A	102-1071-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S5
10-36	12	0.9A	102-1072-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S12
10-36	15	0.7A	102-1230-ND *NEW!*	37.78	36.84	35.90	34.01	PTK10-Q24-S15
20-72	3.3	2.4A	102-1073-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S3
20-72	5	2.0A	102-1074-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S5
20-72	12	0.9A	102-1075-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S12
20-72	15	0.7A	102-1234-ND *NEW!*	37.78	36.84	35.90	34.01	PTK10-Q48-S15
NEW! Dual Output NEW!								
10-36	±5	1.0A	102-1231-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D5
10-36	±12	0.45A	102-1232-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D12
10-36	±15	0.35A	102-1233-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D15
20-72	±5	1.0A	102-1235-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D5
20-72	±12	0.45A	102-1236-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D12
20-72	±15	0.35A	102-1237-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D15

DC-DC Converters – PTK15 Series and PTK25 Series

FEATURES:

• Industry standard pin out • Fully isolated • Output voltage trimmable • Output On/Off control • Over-current protection • Agency Standards: Designed to meet, UL1950, EN60950, CISPR22, CE • Over-voltage protection • Six-sided EMI shielding • Constant switching frequency • High efficiency • Compact size 2.0" x 2.0" x 0.4" • 3 year warranty

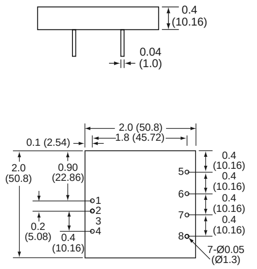
INPUT:

• Parameter: Switching frequency • PTK15; Nom: 250 KHz • PTK25; Nom: 300 KHz

OUTPUT:

• Parameter: Output trim range • Conditions/Description: With external trim resistors • Min: -10% • Max: +10%

PTK15 and PTK25 Series



Pin Assignments		
Single Output	Dual Output	Triple Output
1. +Vin 2. -Vin 3. No pin 4. CNT	1. +Vin 2. -Vin 3. No pin 4. CNT	1. +Vin 2. -Vin 3. No pin 4. CNT
5. NC 6. +Vout 7. -Vout 8. Trim	5. +Vout 6. Com 7. -Vout 8. Trim	5. +Vaux 6. +Vout 7. Com 8. -Vaux

Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
PTK15 Series — Wide 4:1 Input Range								
Single Output								
10-36	3.3	4.0A	102-1076-ND	47.04	45.87	44.69	42.34	PTK15-Q24-S3
10-36	5	3.0A	102-1077-ND	47.04	45.87	44.69	42.34	PTK15-Q24-S5
10-36	12	1.25A	102-1078-ND	47.04	45.87	44.69	42.34	PTK15-Q24-S12
10-36	15	1.0A	102-1209-ND *NEW!*	47.04	45.87	44.69	42.34	PTK15-Q24-S15
Dual Output								
10-36	±5	1.5A	102-1079-ND	49.58	48.35	47.11	44.63	PTK15-Q24-D5
10-36	±12	0.625A	102-1080-ND	49.58	48.35	47.11	44.63	PTK15-Q24-D12
10-36	±15	0.5A	102-1210-ND *NEW!*	49.58	48.35	47.11	44.63	PTK15-Q24-D15
Triple Output								
10-36	3.3/±12	2.0A/0.31A	102-1081-ND	49.58	48.35	47.11	44.63	PTK15-Q24-T312
10-36	5/±12	1.5A/0.31A	102-1082-ND	49.58	48.35	47.11	44.63	PTK15-Q24-T512
10-36	3.3/±15	2.0A/0.25A	102-1083-ND	49.58	48.35	47.11	44.63	PTK15-Q24-T315
10-36	5/±15	1.5A/0.25A	102-1084-ND	49.58	48.35	47.11	44.63	PTK15-Q24-T515
Single Output								
20-72	3.3	4.0A	102-1085-ND	47.04	45.87	44.69	42.34	PTK15-Q48-S3
20-72	5	3.0A	102-1086-ND	47.04	45.87	44.69	42.34	PTK15-Q48-S5
20-72	12	1.25A	102-1087-ND	47.04	45.87	44.69	42.34	PTK15-Q48-S12
20-72	15	1.0A	102-1203-ND *NEW!*	47.04	45.87	44.69	42.34	PTK15-Q48-S15
Dual Output								
20-72	±5	1.5A	102-1088-ND	49.58	48.35	47.11	44.63	PTK15-Q48-D5
20-72	±12	0.625A	102-1089-ND	49.58	48.35	47.11	44.63	PTK15-Q48-D12
20-72	±15	0.5A	102-1204-ND *NEW!*	49.58	48.35	47.11	44.63	PTK15-Q48-D15
Triple Output								
20-72	3.3/±12	2.0A/0.31A	102-1090-ND	49.58	48.35	47.11	44.63	PTK15-Q48-T312
20-72	5/±12	1.5A/0.31A	102-1091-ND	49.58	48.35	47.11	44.63	PTK15-Q48-T512
20-72	3.3/±15	2.0A/0.25A	102-1092-ND	49.58	48.35	47.11	44.63	PTK15-Q48-T315
20-72	5/±15	1.5A/0.25A	102-1093-ND	49.58	48.35	47.11	44.63	PTK15-Q48-T515
PTK25 Series — Wide 2:1 Input Range								
Single Output								
18-36	3.3	6.0A	102-1094-ND	71.00	69.23	67.45	63.90	PTK25-D24-S3
18-36	5	5.0A	102-1095-ND	71.00	69.23	67.45	63.90	PTK25-D24-S5
18-36	12	2.0A	102-1096-ND	71.00	69.23	67.45	63.90	PTK25-D24-S12
18-36	15	1.6A	102-1205-ND *NEW!*	71.00	69.23	67.45	63.90	PTK25-D24-S15
Dual Output								
18-36	±5	2.5A	102-1097-ND	74.78	72.92	71.05	67.31	PTK25-D24-D5
18-36	±12	1.0A	102-1098-ND	74.78	72.92	71.05	67.31	PTK25-D24-D12
18-36	±15	0.8A	102-1206-ND *NEW!*	74.78	72.92	71.05	67.31	PTK25-D24-D15
Triple Output								
18-36	3.3/±12	3.5A/0.35A	102-1099-ND	74.78	72.92	71.05	67.31	PTK25-D24-T312
18-36	5/±12	3.5A/0.35A	102-1100-ND	74.78	72.92	71.05	67.31	PTK25-D24-T512
18-36	3.3/±15	3.5A/0.28A	102-1101-ND	74.78	72.92	71.05	67.31	PTK25-D24-T315
18-36	5/±15	3.5A/0.25A	102-1102-ND	74.78	72.92	71.05	67.31	PTK25-D24-T515
Single Output								
36-72	3.3	6.0A	102-1103-ND	71.00	69.23	67.45	63.90	PTK25-D48-S3
36-72	5	5.0A	102-1104-ND	71.00	69.23	67.45	63.90	PTK25-D48-S5
36-72	12	2.0A	102-1105-ND	71.00	69.23	67.45	63.90	PTK25-D48-S12
36-72	15	1.6A	102-1207-ND *NEW!*	71.00	69.23	67.45	63.90	PTK25-D48-S15
Dual Output								
36-72	±5	2.5A	102-1106-ND	74.78	72.92	71.05	67.31	PTK25-D48-D5
36-72	±12	1.0A	102-1107-ND	74.78	72.92	71.05	67.31	PTK25-D48-D12
36-72	±15	0.8A	102-1208-ND *NEW!*	74.78	72.92	71.05	67.31	PTK25-D48-D15
Triple Output								
36-72	3.3/±12	3.5A/0.35A	102-1108-ND	74.78	72.92	71.05	67.31	PTK25-D48-T312
36-72	5/±12	3.5A/0.35A	102-1109-ND	74.78	72.92	71.05	67.31	PTK25-D48-T512
36-72	3.3/±15	3.5A/0.28A	102-1110-ND	74.78	72.92	71.05	67.31	PTK25-D48-T315
36-72	5/±15	3.5A/0.25A	102-1111-ND	74.78	72.92	71.05	67.31	PTK25-D48-T515

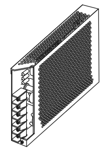
Volgen Division of Taxan USA

Enclosed Switching Power Supplies

SXU SERIES - Models: 15W, 30W, 50W, 100W & 150W

Features: • AC (AC85-132V) • Safety Approvals: UL, CSA • EMI: FCC Class "B", CISPR-B, VCCI-2 • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 0°C to +50°C • Metal Chassis with Cover • Compact, Low-Profile Packages • Three Year Factory Warranty.

General Specifications: • **Input Frequency:** 50/60Hz (47~63 Hz) • **Output Adjust Range:** ±10% • **Over Voltage Protection:** Zener Limiter (Output Shutdown: for 50, 100 and 150 Models). • **Over Current Protection:** Over 105% (Automatic Recovery). • **Temperature Coefficient:** 0.02% / °C • **Rise Time:** 100 mS max. (at 25°C nominal input/output) & 300 mS max. for 100 &150 Models • **Hold-Up Time:** 20mS (typical) • **Storage Temperature:** Temperature: -20°C to +85°C. • Humidity: 20-85% RH (Non Condensing) • **Dielectric Withstanding Voltage:** Models 15W, 30W & 50W: Primary - Secondary: AC 2000V / 1 min., Primary Case: AC 2000V / 1 min., Secondary Case: AC 500V / 1 min. Models 100W & 150W: Primary - Secondary: AC 2000V / 1 min., Primary Case: AC 1500V / 1 min., Secondary Case: AC 500V / 1 min. • **Leakage Current:** 0.5 mA max. • **Isolation Resistance**: Input-Output-Case 100 M-ohms min. • **Shock Test Procedures:** .020" (0.5mm) width, 10-55 Hz / 1 min. cycle, 3 directions each 30 min. 20G (3 directions each 3 times).



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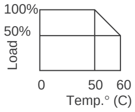
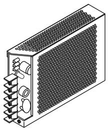


Input Voltage	Input Current A(typ)	Inrush Current A(typ)	Output Voltage (VDC)	Output Current (A)	Effi-ciency	Line Reg. (mV)	Load Reg. (mV)	Ripple Noise (mVp-p)	Dimensions Inch (mm) HxWxD	Digi-Key Part No.	Price Each 1	10	25	50	Taxan Part No.
SX15U															
85 - 132	0.3	10	5	3.0	73%	20	40	100	1.34 x 2.72 x 3.31 (34 x 69 x 84)	62-1001-ND	54.83	50.13	41.99	40.65	SX15U-05S
85 - 132	0.3	10	12	1.3	76%	40	60	150	1.34 x 2.72 x 3.31 (34 x 69 x 84)	62-1002-ND	54.83	50.13	41.99	40.65	SX15U-12S
85 - 132	0.3	10	15	1.0	76%	40	60	150	1.34 x 2.72 x 3.31 (34 x 69 x 84)	62-1003-ND	54.83	50.13	41.99	40.65	SX15U-15S
85 -132	0.3	10	24	0.7	78%	60	150	200	1.34 x 2.72 x 3.31 (34 x 69 x 84)	62-1004-ND	54.83	50.13	41.99	40.65	SX15U-24S
SX30U															
85 - 132	0.7	20	5	6.0	72%	20	40	150	1.34 x 2.72 x 4.09 (34 x 69 x 104)	62-1005-ND	63.21	57.80	48.45	46.90	SX30U-05S
85 - 132	0.7	20	12	2.6	76%	30	60	150	1.34 x 2.72 x 4.09 (34 x 69 x 104)	62-1006-ND	63.21	57.80	48.45	46.90	SX30U-12S
85 - 132	0.7	20	15	2.1	77%	30	60	150	1.34 x 2.72 x 4.09 (34 x 69 x 104)	62-1007-ND	63.21	57.80	48.45	46.90	SX30U-15S
85 - 132	0.7	20	24	1.4	79%	30	60	150	1.34 x 2.72 x 4.09 (34 x 69 x 104)	62-1008-ND	63.21	57.80	48.45	46.90	SX30U-24S
SX50U															
85 - 132	1.1	28	5	9.5	72%	25	60	100	1.46 x 3.35 x 4.69 (37 x 85 x 119)	62-1009-ND	87.29	79.81	67.06	64.90	SX50U-05S
85 - 132	1.1	28	12	4.2	78%	40	120	150	1.46 x 3.35 x 4.69 (37 x 85 x 119)	62-1010-ND	87.29	79.81	67.06	64.90	SX50U-12S
85 - 132	1.1	28	15	3.4	78%	40	120	150	1.46 x 3.35 x 4.69 (37 x 85 x 119)	62-1011-ND	87.29	79.81	67.06	64.90	SX50U-15S
85 - 132	1.1	28	24	2.2	80%	60	160	200	1.46 x 3.35 x 4.69 (37 x 85 x 119)	62-1012-ND	87.29	79.81	67.06	64.90	SX50U-24S
SX100U															
85 - 132	2.3	14	5	20.0	82%	10	20	100	1.54 x 3.66 x 6.30 (39 x 93 x 160)	62-1013-ND	129.48	118.39	99.63	96.41	SX100U-05S
85 -132	2.3	14	12	8.6	85%	10	20	170	1.54 x 3.66 x 6.30 (39 x 93 x 160)	62-1014-ND	129.48	118.39	99.63	96.41	SX100U-12S
85 -132	2.3	14	15	7.0	86%	10	20	170	1.54 x 3.66 x 6.30 (39 x 93 x 160)	62-1015-ND	129.48	118.39	99.63	96.41	SX100U-15S
85 -132	2.3	14	24	4.4	87%	20	30	200	1.54 x 3.66 x 6.30 (39 x 93 x 160)	62-1016-ND	129.48	118.39	99.63	96.41	SX100U-24S
SX150U															
85 - 132	3.5	15	5	30.0	82%	10	30	100	1.89 x 3.66 x 6.89 (48 x 93 x 175)	62-1017-ND	169.14	154.64	130.26	126.05	SX150U-05S
85 -132	3.5	15	12	12.5	85%	15	45	170	1.89 x 3.66 x 6.89 (48 x 93 x 175)	62-1018-ND	169.14	154.64	130.26	126.05	SX150U-12S
85 -132	3.5	15	15	10.0	86%	15	45	170	1.89 x 3.66 x 6.89 (48 x 93 x 175)	62-1019-ND	169.14	154.64	130.26	126.05	SX150U-15S
85 -132	3.5	15	24	6.5	87%	20	60	200	1.89 x 3.66 x 6.89 (48 x 93 x 175)	62-1020-ND	169.14	154.64	130.26	126.05	SX150U-24S

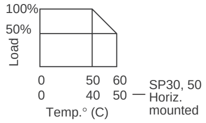
SP & SPN SERIES Universal Input - Models: 15W, 30W, 50W, 75W, 100W, 150W

Features: • Universal Input (AC85-264V) • International Safety Approvals including: IEC801-2, -3, -4 & EMI: FCC Class "B", EN55022-B, VCCI-II, CE • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 0°C to +60°C • Lightweight Construction • Metal Chassis with Cover • 3 Year Factory Warranty

General Specifications: • **Input Frequency:** 50/60Hz (47-63 Hz) • **Output Adjust Range:** ±10% • **Output Ripple (100/230VAC, Full load):** 150mV / 75mVp-p max. DC-100MHz • **Over Voltage Protection:** Zener Limiter • **Over Current Protection:** Over 105% (Auto. Recovery) • **Temperature Coefficient:** 0.02%/ °C maximum • **Rise Time:** 1600 mS maximum • **Storage Temperature and Humidity:** Temperature: -20°C to +85°C. Humidity: 20-85% RH (Non Condensing) • **Dielectric Withstanding Voltage:** Primary - Secondary: AC 3000V / 1 min., Primary Case: AC 1500V / 1 minute, Secondary Case: AC 500V / 1 min. • **Leakage Current** (100 / 230 VAC): 0.5 / 0.75 mA max. • **Isolation Resistance**: Input-Output-Case 100 M-ohms min. • **Shock Test Procedures:** Vibration: .020" (0.5mm) width, 10-50 Hz / 1 minute cycle, 3 directions each 30 minutes, Shock: 20G (3 directions each 3 times)



Derating Temperature:



Input Voltage	Input Current A(typ)	Hold-Up Time mS(typ)	Inrush Current A(typ)	Output Volt. (VDC)	Output Current (A) @115V	@230V	Effi-ciency	Line Reg. (mV)	Load Reg. (mV)	Dimensions Inch (mm) HxWxD	Digi-Key Part No.	Price Each 1	10	25	50	Taxan Part No.
SP15U																
85-264	0.28-0.17	20-100	12-24	3.3	3.0	3.6	70%	20	40	1.30 x 2.95 x 4.21 (33 x 75 x 107)	62-1021-ND	74.20	67.84	56.94	55.12	SP15U-03S
SP30U																
85-264	0.5-0.33	30-180	12-28	3.3	6.0	7.0	70%	20	40	1.30 x 3.11 x 4.88 (33 x 79 x 124)	62-1027-ND	93.94	85.89	72.18	69.87	SP30U-03S
SP50U																
85-264	0.8-0.52	35-210	18-45	3.3	10.0	12.0	70%	20	60	1.30 x 3.50 x 6.46 (33 x 89 x 164)	62-1033-ND	117.84	106.80	99.17	95.97	SP50U-03S
NEW! SPN15 NEW!																
85-264	1-1.3	50	13-31	5	3.0	3.6	75%	10	40	1.26 x 2.8 x 3.41 (32 x 71 x 86.5)	62-1060-ND	50.66	44.33	40.53	32.93	SPN15-05S
85-264	1-1.3	50	13-31	12	1.25	1.5	78%	10	40	1.26 x 2.8 x 3.41 (32 x 71 x 86.5)	62-1061-ND	50.66	44.33	40.53	32.93	SPN15-12S
85-264	1-1.3	50	13-31	15	1.0	1.2	79%	10	40	1.26 x 2.8 x 3.41 (32 x 71 x 86.5)	62-1062-ND	50.66	44.33	40.53	32.93	SPN15-15S
85-264	1-1.3	50	13-31	24	6.5	0.8	80%	20	80	1.26 x 2.8 x 3.41 (32 x 71 x 86.5)	62-1063-ND	50.66	44.33	40.53	32.93	SPN15-24S
85-264	1-1.3	50	13-31	48	0.3	0.4	80%	40	160	1.26 x 2.8 x 3.41 (32 x 71 x 86.5)	62-1064-ND	50.66	44.33	40.53	32.93	SPN15-48S
NEW! SPN30 NEW!																
85-264	1-1.3	50	13-31	5	6.0	6.0	75%	10	40	1.26 x 2.95 x 4.39 (32 x 75 x 111.5)	62-1065-ND	64.00	56.00	51.20	41.60	SPN30-05S
85-264	1-1.3	50	13-31	12	2.6	3.0	78%	10	40	1.26 x 2.95 x 4.39 (32 x 75 x 111.5)	62-1066-ND	64.00	56.00	51.20	41.60	SPN30-12S
85-264	1-1.3	50	13-31	15	2.1	2.5	79%	10	40	1.26 x 2.95 x 4.39 (32 x 75 x 111.5)	62-1067-ND	64.00	56.00	51.20	41.60	SPN30-15S
85-264	1-1.3	50	13-31	24	1.4	1.5	80%	20	80	1.26 x 2.95 x 4.39 (32 x 75 x 111.5)	62-1068-ND	64.00	56.00	51.20	41.60	SPN30-24S
85-264	1-1.3	50	13-31	48	0.7	0.8	80%	40	160	1.26 x 2.95 x 4.39 (32 x 75 x 111.5)	62-1069-ND	64.00	56.00	51.20	41.60	SPN30-48S
NEW! SPN50 NEW!																
85-264	1-1.3	50	13-31	5	10	10	75%	10	40	1.46 x 3.17 x 5.29 (37 x 80 x 134.5)	62-1070-ND	71.17	65.08	61.01	52.88	SPN50-05S
85-264	1-1.3	50	13-31	12	4.2	5	78%	10	40	1.46 x 3.17 x 5.29 (37 x 80 x 134.5)	62-1071-ND	71.17	65.08	61.01	52.88	SPN50-12S
85-264	1-1.3	50	13-31	24	2.1	2.5	80%	20	80	1.46 x 3.17 x 5.29 (37 x 80 x 134.5)	62-1072-ND	71.17	65.08	61.01	52.88	SPN50-24S
85-264	1-1.3	50	13-31	48	1.1	1.1	80%	40	160	1.46 x 3.17 x 5.29 (37 x 80 x 134.5)	62-1073-ND	71.17	65.08	61.01	52.88	SPN50-48S
SPN75																
85-264	0.55-1.0	40-50	16-39	5	15.0	15.0	78%	10	40	1.52 x 3.47 x 7.00 (39 x 88 x 178)	62-1040-ND	74.97	70.89	67.32	63.75	SPN75-05S
85-264	0.55-1.0	40-50	16-39	12	6.5	6.5	82%	10	20	1.52 x 3.47 x 7.00 (39 x 88 x 178)	62-1041-ND	74.97	70.89	67.32	63.75	SPN75-12S
85-264	0.55-1.0	40-50	16-39	24	3.2	3.2	83%	20	40	1.52 x 3.47 x 7.00 (39 x 88 x 178)	62-1042-ND	74.97	70.89	67.32	63.75	SPN75-24S
85-264	0.55-1.0	40-50	16-39	48	1.6	1.6	83%	20	40	1.52 x 3.47 x 7.00 (39 x 88 x 178)	62-1043-ND	74.97	70.89	67.32	63.75	SPN75-48S
SPN100																
85-264	0.66-1.3	50	15-25	5	20.0	20.0	79%	10	20	1.54 x 3.66 x 8.15 (39 x 93 x 207)	62-1044-ND	102.17	96.61	91.74	86.88	SPN100-05S
85-264	0.66-1.3	50	15-25	12	8.6	8.6	83%	10	20	1.54 x 3.66 x 8.15 (39 x 93 x 207)	62-1045-ND	102.17	96.61	91.74	86.88	SPN100-12S
85-264	0.66-1.3	50	15-25	15	7.0	7.0	83%	10	20	1.54 x 3.66 x 8.15 (39 x 93 x 207)	62-1046-ND	102.17	96.61	91.74	86.88	SPN100-15S
85-264	0.66-1.3	50	15-25	24	4.4	4.4	83%	20	40	1.54 x 3.66 x 8.15 (39 x 93 x 207)	62-1047-ND	102.17	96.61	91.74	86.88	SPN100-24S
85-264	0.66-1.3	50	15-25	48	2.2	2.2	84%	20	40	1.54 x 3.66 x 8.15 (39 x 93 x 207)	62-1048-ND	102.17	96.61	91.74	86.88	SPN100-48S
SPN150																
85-264	1.00-1.3	50	13-31	5	30.0	30.0	78%	10	20	1.77 x 4.21 x 8.5 (45 x 107 x 216)	62-1049-ND	122.16	115.51	109.70	103.88	SPN150-05S
85-264	1.00-1.3	50	13-31	12	13.0	13.0	82%	10	20	1.77 x 4.21 x 8.5 (45 x 107 x 216)	62-1050-ND	122.16	115.51	109.70	103.88	SPN150-12S
85-264	1.00-1.3	50	13-31	24	6.5	6.5	83%	20	40	1.77 x 4.21 x 8.5 (45 x 107 x 216)	62-1051-ND	122.16	115.51	109.70	103.88	SPN150-24S
85-264	1.00-1.3	50	13-31	48	3.3	3.3	83%	20	40	1.77 x 4.21 x 8.5 (45 x 107 x 216)	62-1052-ND	122.16	115.51	109.70	103.88	SPN150-48S

Weidmüller DIN-Rail Mounted Switchmode Power Supplies

Features:

- TS35 DIN Rail Mounted
- AC or DC Input
- Wide AC Input Voltage Range
- Interferance suppressed
- Electronic short circuit regulation on output
- CSA, UL, CE
- 26-12 AWG input/output conductor size

Fig. 1

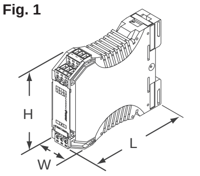


Fig. 2

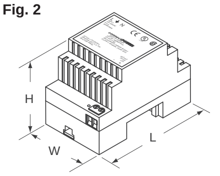


Fig. 3

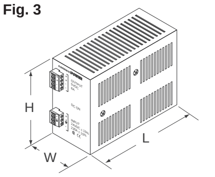


Fig. 4

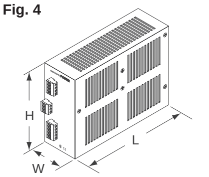


Fig. 5

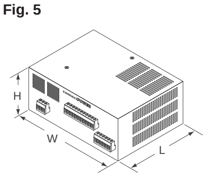
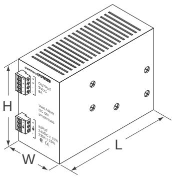


Fig.	Input Voltage Range VAC	Input Voltage Range VDC	Dimensions L x W X H (mm)	DC Output Voltage	Max. Current Output (A)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Weidmuller Part No.
1	85 - 265V	120 - 300V	112.5 x 18 x 90	24V	0.5	281-2002-ND	78.75	72.00	56.25	9918840024
2	85 - 265V	120 - 300V	62.5 x 52 x 90.5	5V 12V 15V 24V 28V	2.0 1.5 1.5 1.0 1.0	281-1556-ND 281-1557-ND* 281-1558-ND 281-1563-ND* 281-1559-ND	63.00 63.00 63.00 63.00 63.00	57.60 57.60 57.60 57.60 57.60	45.00 45.00 45.00 45.00 45.00	9928890005 9928890012 9928890015 9928890024 9928890028
3	85 - 265V	120 - 300V	131 x 57 x 98	24V - 28V 48V 12V - 15V 5V	2.3 1.04 3.0 3.0	281-2005-ND* 281-2006-ND 281-2004-ND* 281-2003-ND	105.00 141.75 141.75 141.75	96.00 129.60 129.60 129.60	75.00 101.25 101.25 101.25	9927480024 9927480048 9927480012 9927480005
	306 - 550V	—	160 x 60 x 108	24	2.3	281-2009-ND†	147.00	134.40	105.00	9917790324
4	85 - 138V	195 - 250V	175 x 57 x 127	24V - 28V	6.5	281-2007-ND*	189.00	172.80	135.00	9925340024
5	86 - 265V	100 - 200V	155 x 240 x 101	24V	12.5	281-2019-ND *NEW!*	399.00	364.80	285.00	9916250024

† 3-Phase input   * Class 1 Division 2 approved

DIN-Rail Mounted DC-DC Converters



The CP-DCDC 50W is a compact 50W DIN rail mounted DC to DC converter family. This family is available in 2 input versions and 4 output versions, making it very versatile.

Features: • 12V and 24V input versions • 5V, 12V, 15V and 24V output variations • User adjustable output voltage • Input and output plug-socket connectors • Output status LED • DIN rail (TS35) mountable • Chassis mountable with optional hardware • Just 57mm (2.24") wide • Robust metal housing

Specifications: Temp range: -10°C to +50°C **Wire Size:** 26-12AWG **Approvals/Certifications:** CSA, UL, CE **Fused Input Protections:** 6.3A Slow Blow

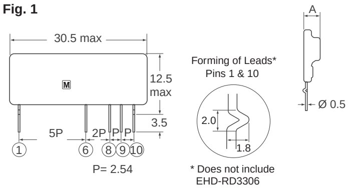
Input Current	Output Volt/Current	Output Adj. Range	Dimension L x W x H (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Price Each 50	Weidmuller Part No.
12VDC Input Version with 10.2 - 13.8VDC Input Range									
4.53A	5V@8A	4.6V - 5.6V	98 x 57 x 131	281-2010-ND*	207.00	186.30	179.40	175.95	9919371205
3.88A	12V@3A	10.5V - 14.5V		281-2011-ND*	207.00	186.30	179.40	175.95	9919371212
4.70A	15V@3A	13V - 18V		281-2012-ND*	207.00	186.30	179.40	175.95	9919371215
4.96A	24V@2A	20.5V - 29.5V		281-2013-ND*	207.00	186.30	179.40	175.95	9919371224
24VDC Input Version with 20.4 - 27.6VDC Input Range									
2.3A	5V@8A	4.6V - 5.6V	98 x 57 x 131	281-2014-ND*	207.00	186.30	179.40	175.95	9919372405
1.93A	12V@3A	10.5V - 14.5V		281-2015-ND*	207.00	186.30	179.40	175.95	9919372412
2.37A	15V@3A	13V - 18V		281-2016-ND*	207.00	186.30	179.40	175.95	9919372415
2.49A	24V@2A	20.5V - 29.5V		281-2017-ND*	207.00	186.30	179.40	175.95	9919372424
Chassis Mounting Kit			—	281-2018-ND	1.85	1.43	1.14	—	7920560000

* Class 1 Division 2 approved

Panasonic DC-DC Converters

Miniature, light and high efficiency Hybrid IC style switching type DC/DC converters. The DC/DC converter is accomplished by means of switching mode control without a transformer. When used with a simple rectifier circuit they can be connected directly to AC. **Features:** • With over current protector. **Recommended Applications:** • Power supply for microcomputer, fan motor, LED, buzzer and sensor circuit of household electric equipment.

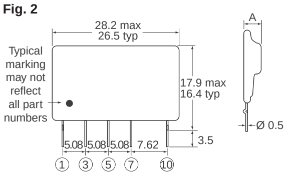
Fig. 1



* Does not include EHD-RD3306

No.	Function
1	IN
2	—
3	—
4	—
5	—
6	GND
7	—
8	L1-1
9	OUT
10	L1-2

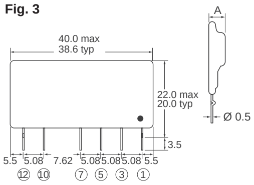
Fig. 2



No.	Function
1	OUT
2	—
3*	L1-1
4	—
5*	L1-2
6	—
7	GND
8	—
9	—
10	IN

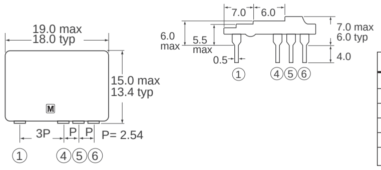
*EHD-RD3363 Pins 3 & 5 Reversed

Fig. 3



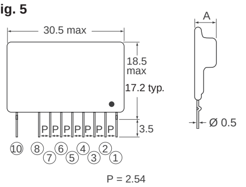
No.	Function	No.	Function
1	OUT	2	—
3	L1-1	4	—
5	L1-2	6	—
7	GND	8	—
9	—	10	NC
11	—	12	IN

Fig. 4



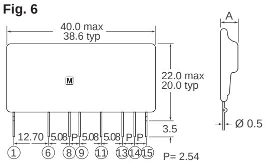
No.	Function
1	IN
2	—
3	—
4	GND
5	TP
6	OUT

Fig. 5



No.	Function
1	OUT
2	NC
3	NC
4	NC
5	GND
6	NC
7	NC
8	NC
9	—
10	IN

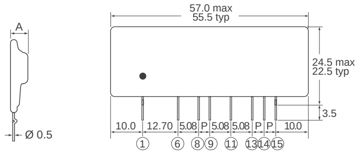
Fig. 6



No.	Function	No.	Function
1	NC	2	—
3	—	4	—
5	—	6	IN
7	—	8	NC
9	GND	10	—
11	L1-1	12	—
13	L1-2	14	NC
15	OUT		

Fig.	Input Voltage (VDC) (Min.)	Input Voltage (VDC) (Typ.)	Input Voltage (VDC) (Max.)	Output Voltage (VDC) (Min.)	Output Voltage (VDC) (Typ.)	Output Voltage (VDC) (Max.)	Output Current (Max.)	Dimensions (A) (Typ.)	Dimensions (A) (Max.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Panasonic Part No.
1	113	141	170	4.75	5.10	5.35	100mA	—	6.0	P11447-ND	7.44	5.45	5.10	EHD-RD3303
2	113	141	170	11.0	12.0	13.0	200mA	4.3	6.0	P11448-ND	7.52	5.51	5.16	EHD-RD3324
	113	141	170	23.0	24.6	25.5	200mA	4.3	6.0	P11449-ND	9.08	6.64	6.22	EHD-RD3362A
	-113	-141	-170	-31.5	-32.0	-32.5	-100mA	6.5	8.0	P11450-ND	5.46	4.00	3.74	EHD-RD3470
	-113	-141	-170	-31.4	-32.0	-32.6	-150mA	6.5	9.0	P11451-ND	5.68	4.16	3.90	EHD-RD3471
	-113	-141	-200	-22.5	-24.0	-25.5	-180mA	4.3	6.0	P11452-ND	5.85	4.29	4.01	EHD-RD3363
	-113	-141	-170	-11.0	-12.0	-13.0	-200mA	4.3	6.0	P11453-ND	6.90	5.05	4.73	EHD-RD3320
3	113	141	170	11.0	12.0	13.0	300mA	4.5	7.0	P11454-ND	7.64	5.59	5.23	EHD-RD3326
4	-113	-141	-170	-4.75	-5.10	-5.35	-30mA	—	—	P11455-ND	6.67	4.89	4.57	EHD-RD3306
5	90	141	170	11.0	12.0	13.0	100mA	—	10.0	P11456-ND	6.87	5.03	4.71	EHD-RD3323
	113	141	170	18.5	20.0	21.5	100mA	—	11.0	P11457-ND	9.81	7.18	6.72	EHD-RD3353
6	225	310	391	22.0	24.0	26.0	100mA	4.7	7.0	P11458-ND	9.25	6.77	6.34	EHD-RD3360
7	225	282	338	11.0	12.0	13.0	400mA	4.7	7.0	P11459-ND	12.16	8.90	8.33	EHD-RD3371
	225	282	338	23.0	24.0	25.0	400mA	4.7	7.0	P11460-ND	10.27	7.51	7.03	EHD-RD3364

Fig. 7



No.	Function	No.	Function	No.	Function
1	NC	2	—	3	—
4	—	5	—	6	IN
7	—	8	NC	9	GND
10	—	11	L1-1	12	—
13	L1-2	14	NC	15	OUT

Optoelectronic Products

Photo Transistor Output Optoisolators

Fig.	Isolation Voltage	Current Transfer Ratio - Typ.	VCEO (Max.)	Typ. ton/toff (μsec.)	Length L (mm)	Width W (mm)	Pitch P (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
1	5000	80-600%	80	3/5	5.1	6.5	2.54	Dip	PS2501-1-ND	.42	.35	.30	—	—	—
2	5000	80-600%	80	3/5	10.2	6.5	2.54	Dip	PS2501-2-ND	.87	.73	.62	—	—	—
3	5000	80-600%	80	3/5	20.3	6.5	2.54	Dip	PS2501-4-ND	1.47	1.23	1.04	—	—	—
1	5000	80-600%	80	3/5	5.1	6.5	2.54	SMT	PS2501L-1-ND	.51	.43	.36	—	—	—
2	5000	80-600%	80	3/5	10.2	6.5	2.54	SMT	PS2501L-2-ND	1.02	.85	.72	—	—	—
3	5000	80-600%	80	3/5	20.3	6.5	2.54	SMT	PS2501L-4-ND	1.92	1.60	1.36	—	—	—
4	5000	200-2000+%	40	100/100	5.1	6.5	2.54	Dip	PS2502-1-ND	.60	.50	.43	—	—	—
5	5000	200-2000+%	40	100/100	10.2	6.5	2.54	Dip	PS2502-2-ND	1.44	1.20	1.02	—	—	—
6	5000	200-2000+%	40	100/100	20.3	6.5	2.54	Dip	PS2502-4-ND	2.15	1.94	1.65	—	—	—
7	5000	80-600%	80	3/5	5.1	6.5	2.54	Dip	PS2505-1-ND	.51	.43	.36	—	—	—
8	5000	80-600%	80	3/5	10.2	6.5	2.54	Dip	PS2505-2-ND	1.17	.98	.83	—	—	—
9	5000	80-600%	80	3/5	20.3	6.5	2.54	Dip	PS2505-4-ND	2.37	1.98	1.67	—	—	—
7	5000	80-600%	80	3/5	5.1	6.5	2.54	SMT	PS2505L-1-ND	.60	.50	.43	—	—	—
8	5000	80-600%	80	3/5	10.2	6.5	2.54	SMT	PS2505L-2-ND	1.23	1.03	.87	—	—	—
9	5000	80-600%	80	3/5	20.3	6.5	2.54	SMT	PS2505L-4-ND	2.13	1.92	1.63	—	—	—
10	5000	200-2000+%	40	100/100	5.1	6.5	2.54	Dip	PS2506-1-ND	.78	.65	.55	—	—	—
11	5000	200-2000+%	40	100/100	10.2	6.5	2.54	Dip	PS2506-2-ND	1.56	1.30	1.10	—	—	—
12	5000	200-2000+%	40	100/100	20.3	6.5	2.54	Dip	PS2506-4-ND	2.60	2.34	2.00	—	—	—
13	5000	1500-6500%	300	100/100	5.1	6.5	2.54	Dip	PS2532-1-ND	.84	.70	.60	—	—	—
14	5000	1500-6500%	300	100/100	10.2	6.5	2.54	Dip	PS2532-2-ND	1.77	1.48	1.25	—	—	—
15	5000	1500-6500%	300	100/100	20.3	6.5	2.54	Dip	PS2532-4-ND	2.75	2.48	2.11	—	—	—
13	5000	1500-6500%	300	100/100	5.1	6.5	2.54	SMT	PS2532L-1-ND	.93	.78	.66	—	—	—
14	5000	1500-6500%	300	100/100	10.2	6.5	2.54	SMT	PS2532L-2-ND	2.10	1.75	1.48	—	—	—
15	5000	1500-6500%	300	100/100	20.3	6.5	2.54	SMT	PS2532L-4-ND	3.55	3.20	2.73	—	—	—
13	5000	1500-6500%	350	100/100	5.1	6.5	2.54	Dip	PS2533-1-ND	1.50	1.25	1.06	—	—	—
14	5000	1500-6500%	350	100/100	10.2	6.5	2.54	Dip	PS2533-2-ND	2.98	2.68	2.29	—	—	—
1	5000	80-400%	80	3/5	5.1	6.5	2.54	Dip	PS2561-1-V-ND‡	.57	.48	.41	—	—	—
2	5000	80-400%	80	3/5	10.2	6.5	2.54	Dip	PS2561-2-V-ND‡	1.14	.95	.81	—	—	—
3	5000	80-400%	80	3/5	20.3	6.5	2.54	Dip	PS2561-4-V-ND‡	2.65	2.39	2.04	—	—	—
1	5000	80-400%	80	3/5	5.1	6.5	2.54	SMT	PS2561L-1-V-ND‡	.63	.53	.45	—	—	—
2	5000	80-400%	80	3/5	10.2	6.5	2.54	SMT	PS2561L-2-V-ND‡	1.23	1.03	.87	—	—	—
1	5000	80-400%	80	3/5	5.1	6.5	2.54	Dip	PS2561L1-1-V-ND*‡	.63	.53	.45	—	—	—
1	5000	80-400%	80	3/5	5.1	6.5	2.54	SMT	PS2561L2-1-V-ND*‡	.63	.53	.45	—	—	—
7	5000	80-400%	80	3/5	5.1	6.5	2.54	Dip	PS2565-1-V-ND‡	.69	.58	.49	—	—	—
8	5000	80-400%	80	3/5	10.2	6.5	2.54	Dip	PS2565-2-V-ND‡	1.41	1.18	1.00	—	—	—
7	5000	80-400%	80	3/5	5.1	6.5	2.54	SMT	PS2565L-1-V-ND‡	.72	.60	.51	—	—	—
8	5000	80-400%	80	3/5	10.2	6.5	2.54	SMT	PS2565L-2-V-ND‡	1.44	1.20	1.02	—	—	—
1	3750	50-300%	40	3/5	4.5	4.4	2.54	SMT	PS2701-1-ND	.60	.50	.43	PS2701-1TR-ND	3,500	333.00/M
4	3750	200-2000+%	40	200/200	4.5	4.4	2.54	SMT	PS2702-1-ND	.90	.75	.64	PS2702-1TR-ND	900	450.00
6	3750	200-2000+%	40	200/200	19.5	4.4	2.54	SMT	PS2702-4-ND	2.55	2.30	1.96	—	—	—
1	3750	50-400%	120	10/10	4.5	4.4	2.54	SMT	PS2703-1-ND	.66	.55	.47	PS2703-1TR-ND	3,500	367.00/M
2	3750	50-400%	120	10/10	9.3	4.4	2.54	SMT	PS2703-2-ND	1.44	1.20	1.02	—	—	—
7	3750	50-300%	40	3/5	4.5	4.4	2.54	SMT	PS2705-1-ND	.69	.58	.49	PS2705-1TR-ND	3,500	383.00/M
1	3750	50-400+%	40	4/5	4.0	4.4	2.54	SMT	PS2761-1-ND	.60	.50	.43	PS2761-1TR-ND	3,500	315.00/M
7	3750	50-400+%	40	4/5	4.0	4.4	2.54	SMT	PS2765-1-ND	.72	.60	.51	PS2765-1TR-ND	3,500	345.00/M
1	2500	80-600%	80	3/5	2.7	4.4	1.27	SMT	PS2801-1CT-ND†	.75	.63	.53	PS2801-1TR-ND	3,500	417.00/M
3	2500	80-600%	80	3/5	10.3	4.4	1.27	SMT	PS2801-4-ND	2.88	2.59	2.21	PS2801-4TR-ND	2,500	1773.00/M
4	2500	200-2000+%	40	200/200	2.7	4.4	1.27	SMT	PS2802-1CT-ND†	1.65	1.38	1.17	PS2802-1TR-ND	3,500	825.00/M
6	2500	200-2000+%	40	200/200	10.3	4.4	1.27	SMT	PS2802-4-ND	2.75	2.48	2.11	PS2802-4TR-ND	2,500	1443.00/M
7	2500	80-600%	80	3/5	2.7	4.4	1.27	SMT	PS2805-1CT-ND†	.93	.78	.66	PS2805-1TR-ND	3,500	517.00/M
9	2500	80-600%	80	3/5	10.3	4.4	1.27	SMT	PS2805-4-ND	3.50	3.15	2.69	—	—	—
10	2500	200-2000+%	40	200/200	2.7	4.4	1.27	SMT	PS2806-1CT-ND†	1.50	1.25	1.06	PS2806-1TR-ND	3,500	750.00/M
12	2500	200-2000+%	40	200/200	10.3	4.4	1.27	SMT	PS2806-4-ND	4.50	4.05	3.45	PS2806-4TR-ND	2,500	2353.00/M
1	2500	100-400+%	40	4/5	2.7	4.4	1.27	SMT	PS2811-1CT-ND†	.75	.63	.53	PS2811-1TR-ND	3,500	975.00/M
3	2500	100-400+%	40	4/5	10.3	4.4	1.27	SMT	PS2811-4-ND	2.75	2.48	2.11	PS2811-4TR-ND	2,500	1443.00/M
7	2500	100-400+%	40	4/5	2.7	4.4	1.27	SMT	PS2815-1CT-ND†	1.32	1.10	.93	PS2815-1TR-ND	3,500	660.00/M
9	2500	100-400+%	40	4/5	10.3	4.4	1.27	SMT	PS2815-4-ND	2.75	2.48	2.11	PS2815-4TR-ND	2,500	1443.00/M
13	2500	400-2000+%	300	100/100	2.7	4.4	1.27	SMT	PS2832-1CT-ND†	1.47	1.23	1.04	PS2832-1TR-ND	3,500	735.00/M
15	3750	400-2000+%	300	100/100	10.3	4.4	1.27	SMT	PS2832-4-ND	4.93	4.44	3.78	PS2832-4TR-ND	2,500	2587.00/M
13	2500	400-2000+%	350	100/100	2.7	4.4	1.27	SMT	PS2833-1CT-ND†	2.10	1.75	1.48	PS2833-1TR-ND	3,500	1050.00/M
1	2500	50-400+%	40	4/5	2.7	4.4	1.27	SMT	PS2861-1CT-ND†	.96	.80	.68	PS2861-1TR-ND	3,500	480.00/M
7	2500	50-400+%	40	4/5	2.7	4.4	1.27	SMT	PS2865-1CT-ND†	1.02	.85	.72	PS2865-1TR-ND	3,500	510.00/M
1	2500	100-400+%	40	4/5	2.5	4.5	1.27	SMT	PS2911-1CT-ND†	.96	.80	.68	PS2911-1TR-ND	3,500	480.00/M
7	2500	100-400+%	40	4/5	2.5	4.5	1.27	SMT	PS2915-1CT-ND†	1.35	1.13	.95	PS2915-1TR-ND	3,500	675.00/M
13	2500	400-4500+%	300	20/5	2.5	4.5	1.27	SMT	PS2932-1CT-ND†	1.95	1.63	1.38	PS2932-1TR-ND	3,500	975.00/M

† Cut Tape pricing   * 10.16mm (0.4") wide row spacing; standard spacing is 7.62mm (0.3")   ‡ VDE Approved

High Speed Analog Output Optoisolators

Fig.	Isolation Voltage	CTRR	Vcc (Max.)	Typ. Prop Delay (μsec.)	Length L (mm)	Width W (mm)	Pitch P (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	100
16	5000	>15%	35	0.3/0.5	10.16	6.5	2.54	Dip	PS8601-ND	1.98	1.65	1.40
16	5000	>15%	35	0.3/0.5	10.16	6.5	2.54	SMT	PS8601L-ND	2.07	1.73	1.46
17	5000	>15%	35	0.3/0.5	10.16	6.5	2.54	Dip	PS8602-ND	1.95	1.63	1.38
17	5000	>15%	35	0.3/0.5	10.16	6.5	2.54	SMT	PS8602L-ND	2.10	1.75	1.48
18	2500	15%-35%	35	0.5/0.6	4.5	4.4	1.27	SMT	PS8701-ND	2.25	2.03	1.73

High Speed Digital

Fig.	Output Type	Isolation Voltage	Prop Delay tPHL	Prop Delay tPLH	Length L (mm)	Width W (mm)	Pitch P (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
19	OC	5000	50ns	50ns	10.16	6.5	2.54	Dip	PS9601-ND	2.31	1.93	1.63	—	—	—
19	OC	5000	50ns	50ns	10.16	6.5	2.54	SMT	PS9601L-ND	2.34	1.95	1.65	—	—	—
20	TP	3750	30ns	30ns	10.16	6.5	2.54	Dip	PS9611-ND	2.22	1.85	1.57	—	—	—
20	OC	5000	250ns	520ns	10.16	6.5	1.27	Dip	PS9613-ND	2.35	2.12	1.81	—	—	—
20	OC	5000	250ns	520ns	10.16	6.5	1.27	SMT	PS9613L-ND	2.38	2.14	1.83	—	—	—
21	OC	2500	50ns	50ns	4.5	4.4	1.27	SMT	PS9701-ND	2.31	1.93	1.63	—	—	—
21	TP	2500	30ns	35ns	4.5	4.4	1.27	SMT	PS9711-ND	2.38	2.14	1.83	—	—	—
21	OC	2500	250ns	520ns	4.5	4.4	1.27	SMT	PS9713CT-ND§	2.53	2.28	1.94	PS9713TR-ND	3,500	1313.00/M
21	TP	2500	33ns	40ns	4.5	4.4	1.27	SMT	PS9715CT-ND§	2.65	2.39	2.04	PS9715TR-ND	3,500	1378.00/M

§ Cut Tape pricing

Coupler For IGBT Driver

Fig.	Isolation Voltage	Prop Delay	Length L (mm)	Width W (mm)	Pitch P (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	100
22	5000	3μs	10.2	6.5	2.54	Dip	PS9634-ND	1.86	1.55	1.31
22	5000	3μs	10.2	6.5	2.54	SMT	PS9634L-ND	1.86	1.55	1.31

High Linearity Diode Output Optoisolator (Surface Mount)

Fig.	Isolation Voltage	Transfer Gain (K2/K1)	Transfer Gain Linearity ∆ (K2/K1) (for Vcc=15V, If=2-10mA)	Length L (mm)	Width W (mm)	Pitch P (mm)	Digi-Key Part No.	Price Each 1	10	100
23	1500	.733-1.072	<1%	10.3	4.4	1.27	PS8741-ND	4.25	3.83	3.26

Fig. 1

Photo Transistor Output Dip or SMT

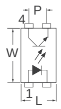


Fig. 2

Dual Photo Transistor Output Dip or SMT

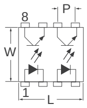
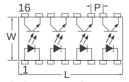


Fig. 3



Quad Photo Transistor Output Dip or SMT

Fig. 4

Photo Darlington Output Dip or SMT

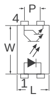
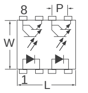
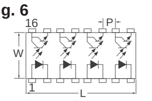


Fig. 5



Dual Photo Darlington Output Dip or SMT

Fig. 6



Quad Photo Darlington Output Dip or SMT

Fig. 7

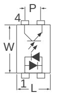
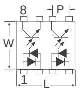


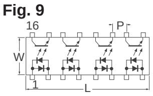
Photo Transistor Output Dip or SMT

Fig. 8



Dual Photo Transistor Output Dip or SMT

Fig. 9



Quad Photo Transistor Output Dip or SMT

Fig. 10

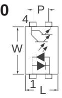
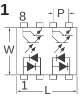


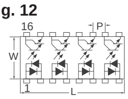
Photo Darlington Output Dip

Fig. 11



Dual Photo Darlington Output Dip

Fig. 12



Quad Photo Darlington Output Dip

Fig. 13

Photo Darlington Output Dip or SMT

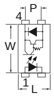


Fig. 14

Dual Photo Darlington Output Dip or SMT

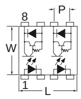
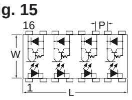
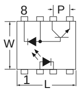


Fig. 15



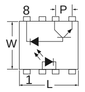
Quad Photo Darlington Output Dip or SMT

Fig. 16



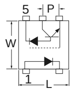
Dip or Lead-Bent

Fig. 17



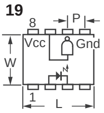
Dip or Lead-Bent

Fig. 18



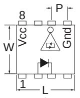
SMT

Fig. 19



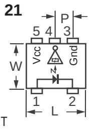
DIP and Lead-Bent

Fig. 20



Dip

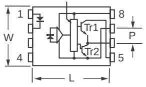
Fig. 21



SMT

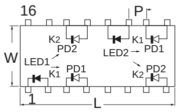
Fig. 22

Signal processing circuit



DIP and Lead-Bent

Fig. 23



TOSHIBA Transistor Output Optoisolators

Fig.	Pkg.	Current Transfer Ratio Min. (%)	Max. (%)	@IF (ma)	VCE (V)	Collector Breakdown V(BR)	Isolation Voltage (Vrms)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	Dip	100	1200	1	0.5	55	5000	TLP331-ND	1.08	.90	.72	—	—	—
	Dip	50	600	5	5	55	5000	TLP631-ND	.75	.63	.50	—	—	—
	Dip	100	600	5	5	55	5000	TLP631GB-ND	.75	.63	.50	—	—	—
	Dip	50	600	5	5	80	4000	TLP731D4-GR-ND*	.86	.72	.57	—	—	—
	Dip	20	—	10	10	30	2500	4N25ASHORT-ND	.60	.45	.34	—	—	—
	Dip	20	—	10	10	30	2500	4N25SHORT-ND	.48	.36	.27	—	—	—
	Dip	20	100	10	10	30	2500	4N26SHORT-ND	.60	.45	.34	—	—	—
	Dip	100	—	10	10	30	2500	4N35SHORT-ND	.48	.36	.27	—	—	—
	Dip	100	—	10	10	30	2500	4N36SHORT-ND	.60	.45	.34	—	—	—
	Dip	10	—	10	10	80	2500	4N38SHORT-ND	.64	.49	.37	—	—	—
2	Dip	100	1200	1	0.5	55	5000	TLP332-ND	1.08	.90	.72	—	—	—
	Dip	50	600	5	5	55	5000	TLP632-ND	1.07	.89	.71	—	—	—
	Dip(.4)	50	600	5	5	80	4000	TLP732D4-GR-LF2-ND	1.14	.95	.76	—	—	—
3	Dip	100	600	5	0.5	55	5000	TLP630GB-TAIE-ND	.75	.63	.50	—	—	—
	Dip	50	600	±5	5	55	5000	TLP630TAIE-ND	1.20	1.01	.81	—	—	—
4	SMD	100	1200	1	0.5	80	3750	TLP124-ND	.88	.66	.50	TLP124TR-ND	3,000	286.00/M
	SMD	200	1200	1	0.5	80	3750	TLP124BV-ND	.92	.69	.52	TLP124BVTR-ND	3,000	299.00/M
	SMD	200	600	5	5	80	3750	TLP181BLCT-ND†	.48	.36	.27	TLP181BLTR-ND	3,000	156.00/M
	SMD	50	600	5	5	80	3750	TLP181CT-ND†	.48	.36	.27	TLP181TR-ND	3,000	156.00/M
	SMD	50	600	5	5	80	3750	TLP181-ND	.48	.36	.27	—	—	—
	SMD	100	600	5	5	80	3750	TLP181GB-ND	.48	.36	.27	—	—	—
	SMD	100	600	5	5	80	3750	TLP181GBCT-ND†	.48	.36	.27	TLP181GBTR-ND	3,000	156.00/M
	SMD	100	300	5	5	80	3750	TLP181GRCT-ND†	.48	.36	.27	TLP181GRTR-ND	3,000	156.00/M
	SMD	50	150	5	5	80	3750	TLP181YCT-ND†	.52	.39	.30	TLP181YTR-ND	3,000	169.00/M
5	SMD	50	600	5	5	80	3750	TLP131-ND	.90	.75	.60	—	—	—
	SMD	100	600	5	5	80	3750	TLP131GB-ND	.90	.75	.60	—	—	—
	SMD	100	600	5	5	80	3750	TLP131GBCT-ND†	.90	.75	.60	TLP131GBTR-ND	3,000	390.00/M
	SMD	100	1200	1	0.5	80	3750	TLP137-ND	.84	.70	.56	—	—	—
6	Dip	50	600	5	—	55	5000	TLP621-ND	.69	.52	.39	—	—	—
	Dip	200	600	5	—	55	5000	TLP621BLT-ND	.56	.42	.32	—	—	—
	SMD	50	600	5	5	55	5000	TLP621D4-TP1CT-ND*†	.75	.63	.50	—	—	—
	Dip	50	150	5	5	55	5000	TLP621D4-Y-ND*	.80	.60	.45	—	—	—
	Dip(.4)	50	150	5	5	55	5000	TLP621D4-Y-LF2-ND*	.60	.45	.34	—	—	—
	Dip(.4)	50	150	5	5	55	5000	TLP621D4-Y-LF2T-ND*	.56	.42	.32	—	—	—
	Dip	100	600	5	—	55	5000	TLP621GBT-ND	.52	.39	.30	—	—	—
	Dip	100	300	5	—	55	5000	TLP621GRT-ND	.52	.39	.30	—	—	—
	Dip	50	600	5	—	55	5000	TLP621-2-ND	1.38	1.16	.93	—	—	—
	Dip	100	600	5	—	55	5000	TLP621-2GB-ND	1.38	1.16	.93	—	—	—
	Dip	100	300	5	5	55	5000	TLP621-2GRT-ND	1.05	.88	.70	—	—	—
	SMD	50	600	5	0.5	55	5000	TLP621LF1T-ND	.92	.69	.52	—	—	—
	Dip	50	600	5	—	55	5000	TLP621-4-ND	2.13	1.70	1.28	—	—	—
	Dip	100	600	5	—	55	5000	TLP621-4GB-ND	2.13	1.70	1.28	—	—	—
	SMD	100	1200	1	0.5	55	5000	TLP624LF1-ND	.75	.63	.50	—	—	—
	Dip	100	1200	1	—	55	5000	TLP624-ND	.96	.72	.54	—	—	—
	Dip	100	1200	1	—	55	5000	TLP624-2-ND	1.25	1.00	.75	—	—	—
	Dip	100	1200	1	—	55	5000	TLP624-4-ND	2.25	1.80	1.40	—	—	—
	Dip	100	1200	±1	—	55	5000	TLP626-ND	1.16	.97	.78	—	—	—
	Dip	200	1200	1	0.5	55	5000	TLP626BV-ND	1.40	1.12	.84	—	—	—
7	Dip	50	600	±5	—	55	5000	TLP620-ND	.72	.54	.41	—	—	—
	Dip	100	600	±5	—	55	5000	TLP620GB-ND	.84	.63	.48	—	—	—
	Dip	100	300	±5	—	55	5000	TLP620GR-ND	1.04	.78	.59	—	—	—
	Dip	50	600	±5	—	55	5000	TLP620-2-ND	1.26	1.05	.84	—	—	—
	Dip	100	600	±5	—	55	5000	TLP620-2GB-ND	1.46	1.22	.98	—	—	—
	Dip	50	600	±5	—	55	5000	TLP620-4-ND	2.32	1.86	1.39	—	—	—
	Dip	100	600	±5	—	55	5000	TLP620-4GB-ND	1.63	1.30	.98	—	—	—
	Dip	100	1200	±1	—	55	5000	TLP626-2-ND	2.55	2.04	1.53	—	—	—
	Dip	100	1200	±1	—	55	5000	TLP626-4-ND	3.87	3.10	2.41	—	—	—
8	SMD	100	600	5	5	80	2500	TLP280-4GB-ND	2.13	1.70	1.28	TLP280-4GBTR-ND	2,500	1100.80/M
9	SMD	100	600	5	5	80	2500	TLP280GB-ND	.88	.66	.50	TLP280GBTR-ND	2,500	286.00/M
10	SMD	100	600	5	5	80	2500	TLP281-4GB-ND	1.75	1.40	1.05	TLP281-4GBTR-ND	2,500	896.00/M
11	SMD	100	600	5	5	80	2500	TLP281GB-ND	.72	.54	.41	TLP281GBTR-ND	2,500	234.00/M
	SMD	50	600	5	5	80	2500	TLP281GR-ND	.72	.54	.41	—	—	—
	Dip	100	300	5	5	55	4000	TLP721D4-GRLT-ND*	.64	.48	.36	—	—	—
	Dip	100	300	5	5	80	5000	TLP421GR-ND	.50	.40	.30	—	—	—
	Dip	50	600	60	—	80	5000	TLP421-ND *NEW!*	.49	.39	.30	—	—	—
	Dip	200	600	60	—	80	5000	TLP421BL-ND *NEW!*	.49	.40	.30	—	—	—
12	Dip	50	600	5	5	55	2500	TLP504A-ND	1.26	1.05	.84	—	—	—
	Dip	50	600	5	5	55	2500	TLP504AGB-ND	1.26	1.05	.84	—	—	—
13	Dip	50	600	5	5	55	2500	TLP504A-2-ND	2.10	1.68	1.26	—	—	—
	Dip	100	600	5	5	55	2500	TLP504A-2GB-ND	2.10	1.68	1.26	—	—	—
14	SMD	50	600	5	5	80	3750	TLP180CT-ND†	.80	.60	.45	TLP180TR-ND	3,000	260.00/M
	SMD	100	600	5	5	80	3750	TLP180GB-ND	.80	.60	.45	—	—	—
	SMD	100	1200	±1	0.5	80	3750	TLP126-ND	.90	.75	.60	—	—	—
15	SMD	100	600	±5	5	80	3750	TLP130GB-ND	1.13	.94	.75	—	—	—

* VDE Approved † Cut Tape Pricing

Fig. 1

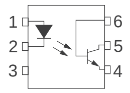
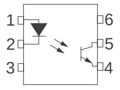


Fig. 2



No Base Connection

Fig. 3

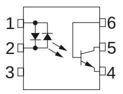


Fig. 4

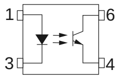


Fig. 5

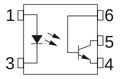


Fig. 6

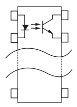


Fig. 7

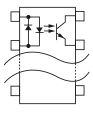


Fig. 8

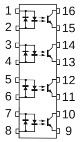


Fig. 9

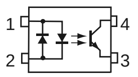


Fig. 10

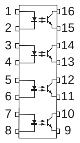


Fig. 11

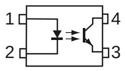


Fig. 12

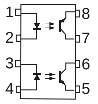


Fig. 13

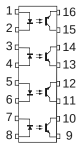


Fig. 14

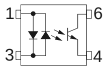
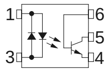


Fig. 15



Darlington Transistor Output

Fig. 1

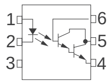


Fig. 2

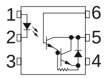
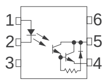


Fig. 3



No Base Connection

Fig. 4

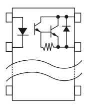


Fig. 5

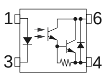


Fig.	Pkg.	Current Transfer Ratio Min. (%)	@IF (ma)	VCE (V)	Saturation Voltage Max. (V)	@IC (ma)	@IF (ma)	Collector Break-down V(BR)	Iso-lation Volt.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	Dip	100	10	10	1	2	8	30	2500	4N29ASHORT-ND	.72	.54	.41	—	—	—
	Dip	100	10	10	1	2	8	30	2500	4N29SHORT-ND	.64	.48	.36	—	—	—
	Dip	500	10	10	1	2	8	30	2500	4N32SHORT-ND	.72	.54	.41	—	—	—
	Dip	500	10	10	1	2	8	30	2500	4N33SHORT-ND	.72	.54	.41	—	—	—
	Dip	1000	1	1	1.2	100	10	300	5000	TLP371-ND	.81	.68	.54	—	—	—
2	SMD	1000	1	1	1.2	100	10	300	5000	TLP371TP1CT-ND†	.87	.73	.58	TLP371TP1TR-ND	1,500	385.70/M
3	Dip	1000	1	1	1.2	100	10	300	5000	TLP372-ND	.90	.75	.60	—	—	—
4	Dip	1000	1	1	1.2	100	10	300	5000	TLP627-ND	.84	.70	.56	—	—	—
	Dip	1000	1	1	1.2	100	10	300	5000	TLP627-2-ND	1.30	1.04	.78	—	—	—
	Dip	1000	1	1	1.2	100	10	300	5000	TLP627-4-ND	2.25	1.80	1.35	—	—	—
	SMD	1000	1	1	1.2	100	10	300	5000	TLP627TP1CT-ND†	.87	.73	.58	TLP627TP1TR-ND	1,500	385.70/M
5	SMD	1000	1	1	1.2	100	10	300	2500	TLP127-ND	.84	.70	.56	—	—	—
	SMD	1000	1	1	1.2	100	10	300	2500	TLP127CT-ND†	.84	.70	.56	TLP127TR-ND	3,000	364.00/M

† Cut Tape Pricing

TOSHIBA

Thyristor Output Optoisolators

Fig.	Pkg.	LED Trigger Current Max. (mA)	dv/dt Typical (V/uS)	Blocking Voltage	Isolation Voltage	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel	
							1	10	100		Size	Pricing
1	Dip	10	10	600	4000	TLP741JTAIE-ND‡	1.13	.95	.76	—	—	—
	Dip	10	10	400	4000	TLP741GD4-TAIE-ND*‡	1.13	.95	.76	—	—	—
	Dip	10	10	400	4000	TLP741GN-ND	1.50	1.20	.90	—	—	—
	Dip	10	10	400	4000	TLP741GTAIEN-ND	1.03	.86	.69	—	—	—
2	SMD	10	500	400	2500	TLP160G-ND	1.02	.85	.68	—	—	—
	SMD	10	500	600	2500	TLP160J-ND	1.05	.88	.70	—	—	—
	Dip	10	500	400	5000	TLP3022S-ND	.78	.65	.52	—	—	—
	Dip	5	500	400	5000	TLP3023S-ND	.81	.68	.54	—	—	—
	Dip	10	—	600	5000	TLP3052-ND	.96	.80	.64	—	—	—
	SMD	10	500	400	2500	TLP160GCT-ND†	1.02	.85	.68	TLP160GTR-ND	3,000	442.00/M
	Dip	10	500	400	5000	TLP3022-ND	.97	.81	.65	—	—	—
	Dip	5	500	400	5000	TLP3023-ND	1.07	.90	.72	—	—	—
	Dip	10	500	600	5000	TLP3052D4N-ND*	1.05	.88	.70	—	—	—
	Dip	10	500	600	4000	TLP762JFD4-ND*	.99	.83	.66	—	—	—
	Dip	10	500	600	4000	TLP762JD4-ND*	.96	.80	.64	—	—	—
	SOP	10	500	600	3000	TLP260J-ND *NEW!*	.90	.75	.60	—	—	—
	SMD	10	500	400	2500	TLP161G-ND	.90	.75	.60	—	—	—
	SMD	10	500	600	2500	TLP161J-ND	.90	.75	.60	TLP161JTR-ND	3,000	390.00/M
	Dip	10	500	400	5000	TLP3042S-ND#	.78	.65	.52	—	—	—
	Dip	5	500	400	5000	TLP3043S-ND#	.78	.65	.52	—	—	—
	Dip	10	500	600	5000	TLP3062S-ND#	.84	.70	.56	—	—	—
3	Dip	5	500	600	5000	TLP3063S-ND#	.84	.70	.56	—	—	—
	SMD	3	500	600	2500	TLP168JCT-ND†	1.29	1.08	.86	TLP168JTR-ND	3,000	559.00/M
	Dip	10	500	400	5000	TLP3042-ND	.97	.81	.65	—	—	—
	Dip	5	500	400	5000	TLP3043-ND	1.03	.86	.69	—	—	—
	Dip	5	500	600	5000	TLP3063-ND	.96	.80	.64	—	—	—
	SMD	5	500	600	5000	TLP3063D4CT-ND*	1.25	1.00	.75	TLP3063D4TR-ND*	1,500	650.00/M
	SMD	5	500	600	5000	TLP3063LF1S-ND	.96	.80	.64	—	—	—
	SMD	5	500	600	5000	TLP3063D4TSCT-ND†*	1.05	.88	.70	TLP3063D4TSTR-ND*	1,500	465.50/M
	SMD	5	500	600	5000	TLP3063TP1SCT-ND†	.96	.80	.64	TLP3063TP1STR-ND	1,500	425.60/M
	Dip	10	500	600	4000	TLP763JD4-ND*	.96	.80	.64	—	—	—
4	SMD	10	10	400	2500	TLP141GCT-ND†	1.38	1.15	.92	TLP141GTR-ND	3,000	598.00/M
	SMD	10	10	400	2500	TLP141G-ND	1.35	1.13	.90	—	—	—
5	Dip	10	500	400	2500	TLP525G-ND	.90	.75	.60	—	—	—
	Dip	10	500	400	2500	TLP525G-2-ND	1.50	1.20	.90	—	—	—

Fig. 1

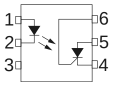
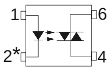


Fig. 2



*Pin 3 for TLP160

Fig. 3

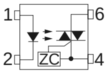


Fig. 4

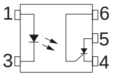
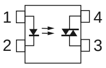


Fig. 5



* VDE Approved # Zero Crossing
† Cut Tape Pricing ‡ SCR Output

High Speed Output Optoisolators

Fig.	Pkg.	Output Current			Data Rate Typical (bit/s)	Max. Supply Voltage (V)	Isolation Voltage (Vrms)	Digi-Key Part No.	Price Each			Digi-Key Part No	Tape & Reel	
		Min. (ma)	@IF (ma)	@VO (V)					1	10	100		Size	Pricing
1	Dip	1.12	16	0.4	1M	15	2500	TLP2530-ND	3.38	2.70	2.10	—	—	—
	Dip	3.04	16	0.4	1M	15	2500	TLP2531-ND	3.38	2.70	2.10	—	—	—
2	Dip	13	5	0.6	10M	5	2500	TLP2630-ND	2.25	1.80	1.40	—	—	—
	Dip	13	5	0.6	10M	5	2500	TLP2631-ND	3.38	2.70	2.10	—	—	—
3	SMD	1.6	16	0.4	1M	15	2500	TLP112-ND	1.61	1.29	.97	TLP112TR-ND	3,000	825.60/M
	SMD	3.2	16	0.4	1M	15	2500	TLP112A-ND	1.61	1.29	.97	TLP112ATR-ND	3,000	921.60/M
	SMD	3.2	16	0.4	1M	30	3750	TLP114ACT-ND†	2.13	1.70	1.28	TLP114ATR-ND	3,000	1088.00/M
4	SMD	13	10	0.4	10M	5	2500	TLP113CT-ND†	1.75	1.40	1.05	TLP113TR-ND	3,000	896.00/M
	SMD	13	10	0.4	10M	5	2500	—	—	—	—	TLP115TR-ND	3,000	1544.76/M
	SMD	13	5	0.4	10M	5	2500	TLP115A-ND	3.15	2.52	1.96	TLP115ATR-ND	3,000	1815.66/M
5	Dip	1.6	16	0.4	1M	15	2500	TLP550-ND	1.38	1.10	.83	—	—	—
6	Dip	3.2	16	0.4	1M	15	2500	TLP559-ND	1.75	1.40	1.05	—	—	—
7	Dip	1.12	16	0.4	1M	15	2500	6N135T-ND	1.20	1.00	.80	—	—	—
	Dip	3.04	16	0.4	1M	15	2500	6N136T-ND	.96	.80	.64	—	—	—
8	Dip	13	5	0.6	10M	5	2500	6N137T-ND	.96	.80	.64	—	—	—
	Dip	13	5	0.6	10M	5	2500	TLP2601-ND	2.25	1.80	1.35	—	—	—
9	Dip	4.8	1.6	0.4	100K	7	2500	6N138T-ND	1.08	.90	.72	—	—	—
	Dip	2	0.5	0.4	100K	18	2500	6N139T-ND	.96	.80	.64	—	—	—
10	Dip Dip	6.4 -2.6	1.6 0	0.4 2.4	5M	20	2500	TLP558-ND	3.60	2.88	2.24	—	—	—
11	Dip Dip	6.4 -2.6	0 1.6	0.5 2.4	5M	20	2500	TLP2200-ND	2.48	1.98	1.54	—	—	—

† Cut Tape pricing

Fig. 1

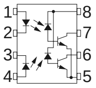


Fig. 2

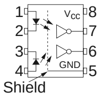


Fig. 3

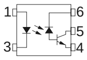


Fig. 4

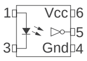


Fig. 5

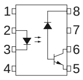


Fig. 6

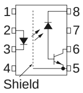


Fig. 7

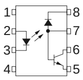


Fig. 8

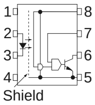


Fig. 9

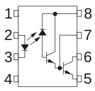


Fig. 10

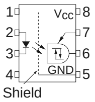
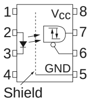


Fig. 11



Photovoltaic Couplers

Fig.	Pkg.	Short Current		Open Voltage Typ. (V)	Switching Time (@UF=20 mA, CL=1000pF)		Isolation Voltage (VRMS)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel	
		Min. (uA)	@IF (ma)		T on (ms)	T off(ms)			1	10	100		Size	Pricing
1	SMD	12	10	8	0.2	2	2500	TLP190B-ND	2.70	2.16	1.68	—	—	—
	SMD	12	10	8	0.2	2	2500	TLP190BCT-ND†	2.70	2.16	1.68	TLP190BTR-ND	3,000	1512.00/M
2	SMD	24	20	8	0.2	2	2500	TLP191B-ND	2.93	2.34	1.82	TLP191BTR-ND	3,000	1638.00/M

† Cut Tape Pricing

Fig. 1

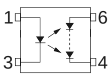
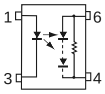
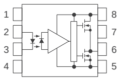


Fig. 2



NEW! Industrial Optoisolators



1: NC
2: Anode
3: Cathode
4: NC
5: GND
6: V_O
7: NC
8: V_{CC}

Features: • Power supply voltage: 10V to 30V • Isolation Voltage: 3750 Vrms

Pkg.	Input Current		Forward Voltage	Operating Frequency	Isolation Operating Temperature	Digi-Key Part No.	Price Each			Toshiba Part No.
	Min. (uA)	Max. (ma)					1	10	100	
Dip	7.5	10	1.55	25Khz	-40°C to +100°C	TLP351-ND	1.50	1.20	.90	TLP351

Power Transistor Outputs

Fig.	Pkg.	Output Current		Propagation Delay Typical (us)	Max. Supply Voltage (V)	Isolation Voltage (VRMS)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,500
		IO (A)	@IF (ma)					1	10	100		
1	Dip	0.25	5	1	16	2500	TLP557-ND	1.80	1.44	1.08	—	—
2	Dip	±0.5	5	0.2	35	2500	TLP250-ND	1.88	1.50	1.13	—	—
	SMD	±1.5	5	0.15 @ 8mA	35	2500	TLP250CT-ND†	2.25	1.80	1.35	TLP250TR-ND	1170.00/M
	SMD	±0.4	5	0.25 @ 8mA	35	2500	TLP251CT-ND†	1.88	1.50	1.13	TLP251TR-ND	975.00/M

† Cut Tape pricing

Fig. 1

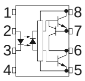
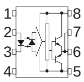


Fig. 2



Solid State Relays

† Cut Tape pricing

Fig. 1

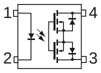


Fig. 2

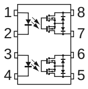


Fig. 3

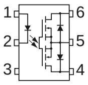


Fig.	Input Current				Output Circuit Imax	Ton/Toff	Pkg.	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,500
	Vf (led)	Imin (mA)	Imax	Vrange					1	10	100		
1	1.15	5	25	0-350V	120mA	1ms/1ms	4-Dip	TLP227GN-ND *NEW!*	1.88	1.50	1.13	—	—
1	1.15	5	25	0-350V	110mA	1ms/1ms	4-SOP	TLP172G-ND *NEW!*	1.68	1.34	1.01	—	—
1	1.15	5	25	0-350V	500mA	0.8/0.1ms	4-Dip	TLP222G-ND *NEW!*	1.35	1.08	.81	—	—
2	1.15	7.5	25	0-320V	100mA	4ms/4ms	8-SMT	TLP296GTACT-ND†	4.95	3.96	3.08	TLP296GTATR-ND	2805.00/M
3	1.4	10	20	0-400V	150mA	1ms/1ms	6-Dip	TLP595G-ND	5.32	4.26	3.32	—	—
3	1.4	10	20	0-320V	150mA	1ms/1ms	6-Dip	TLP598G-ND	2.81	2.25	1.75	—	—

FAIRCHILD
SEMICONDUCTOR

Optoisolators

Fig. 1

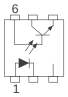


Photo-Transistor Output

Fig. 2

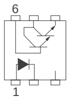
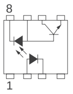


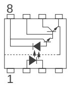
Photo-Darlington Output

Fig. 3



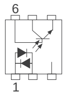
High-Speed Transistor Output

Fig. 4



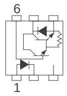
High Gain Split Darlington Output

Fig. 5



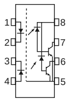
AC Input Photo-Transistor Output

Fig. 6



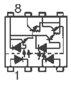
High Voltage Photo-Darlington Output

Fig. 7



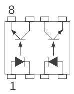
Dual Channel High Speed Transistor Output

Fig. 8



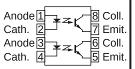
Dual Split Darlington Output

Fig. 9



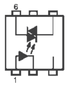
Dual Photo Transistor Output

Fig. 10



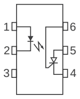
SMT Dual Photo Transistor Output MCT9001QT-ND not SMT

Fig. 11



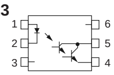
Non-zero Crossing Triac Output

Fig. 12



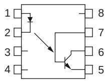
SCR Output

Fig. 13



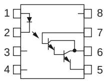
Darlington Output

Fig. 14



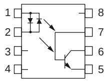
SMT. Transistor Output

Fig. 15



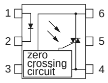
SMT. Darlington Output

Fig. 16



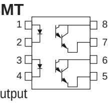
SMT. AC Input Transistor Output

Fig. 17



Zero-Cross Triac Output

Fig. 18 SMT



Dual Channel Darlington Output

Fig. 19

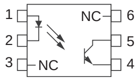


Photo Transistor Output Optoisolators

Fig.	Iso. Volt.	Current Transfer Ratio - Typ. (%)			V_{CEO} (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each		
		(Min.	Typ.	Max.)					1	10	100
1	2500	20	50	—	30	2.5/2.6	DIP	4N25FS-ND	.48	.36	.27
1	5300	20	70	—	30	2.8/4.5	SMT	4N25SM-ND	.59	.47	.36
1	5300	20	70	—	30	2.8/4.5	DIP	4N25MFS-ND	.59	.47	.36
1	2500	20	50	—	30	3.0/3.0	DIP	4N26FS-ND	.48	.36	.27
1	5300	20	70	—	30	2.8/4.5	DIP	4N26MFS-ND	.59	.47	.36
1	2500	20	50	—	30	3.0/3.0	DIP	4N27-ND	.48	.36	.27
1	5300	10	50	—	30	2.8/4.5	DIP	4N27MFS-ND	.59	.47	.36
1	2500	20	50	—	30	2.5/2.6	DIP	4N28-ND	.48	.36	.27
1	5300	10	50	—	30	2.8/4.5	DIP	4N28MFS-ND	.59	.47	.36
2	2500	100	—	—	30	5.0/40	DIP	4N29-ND	.51	.39	.29
2	2500	100	—	—	30	5.0/40	DIP	4N30-ND	.51	.39	.29
2	2500	50	—	—	30	5.0/40	DIP	4N31-ND	.51	.39	.29
2	2500	500	—	—	30	5.0/100	DIP	4N32-ND	.51	.39	.29
2	5300	500	—	—	30	5.0/100	SMT	4N32S-ND	.51	.39	.29
2	2500	500	—	—	30	5.0/100	DIP	4N33-ND	.51	.39	.29
1	3550	100	300	—	30	5.0/5.0	DIP	4N35FS-ND	.48	.36	.27
1	5300	100	—	—	30	5.0/5.0	SMT	4N35SFS-ND	.48	.36	.27
1	5300	100	300	—	30	7.5/5.7	SMT	4N35SM-ND	.59	.47	.36
1	5300	100	300	—	30	7.5/5.7	DIP	4N35MFS-ND	.59	.47	.36
1	5300	100	—	—	30	5.0/5.0	DIP	4N35300-ND†	.48	.36	.27
1	2500	100	300	—	30	5.0/5.0	DIP	4N36-ND	.48	.36	.27
1	5300	100	300	—	30	7.5/5.7	DIP	4N36M-ND	.59	.47	.36
1	1500	100	300	—	30	5.0/5.0	DIP	4N37FS-ND	.48	.36	.27
1	5300	100	300	—	30	7.5/5.7	DIP	4N37MFS-ND	.59	.47	.36
1	5300	20	—	—	80	—	DIP	4N38-ND	.96	.72	.54
3	2500	7	18	50	15V	1.5/1.5	DIP	6N135QT-ND	.79	.66	.53
3	2500	19	27	50	15V	.8/.8	DIP	6N136QT-ND	.79	.66	.53
4	2500	300	1300	—	7V	10/35	DIP	6N138QT-ND	.79	.66	.53
4	2500	400	1100	—	18V	1/7	DIP	6N139QT-ND	.79	.66	.53
19	5300	40	—	80	70	6.0/5.5	DIP	CNY17F1FS-ND	.55	.42	.32
19	5300	63	—	125	70	6.0/5.5	DIP	CNY17F2FS-ND	.55	.42	.32
19	5300	100	—	200	70	6.0/5.5	DIP	CNY17F3FS-ND	.55	.42	.32
1	5300	40	—	80	70	6.0/5.5	DIP	CNY171FS-ND	.55	.42	.32
1	5300	40	60	80	70	4.0/3.0	DIP	CNY171MFS-ND	.49	.37	.28
1	5300	63	100	125	70	4.0/3.0	DIP	CNY172M-ND	.49	.37	.28
1	5300	100	150	200	70	4.0/3.0	DIP	CNY173M-ND	.49	.37	.28
1	5300	40	60	80	70	2.0/11	DIP	CNY171300-ND †	.55	.42	.32
1	5300	63	100	125	70	10/10	DIP	CNY172FS-ND	.55	.42	.32
1	5300	63	100	125	70	3.0/14	DIP	CNY172300-ND †	.55	.42	.32
1	5300	100	150	200	70	10/10	DIP	CNY173FS-ND	.55	.42	.32
1	5300	100	150	200	70	3.0/14	DIP	CNY173300-ND †	.55	.42	.32
1	5300	160	—	320	70	10/10	DIP	CNY174FS-ND	.55	.42	.32
1	5300	160	—	320	70	3.0/14	DIP	CNY174300-ND †	.55	.42	.32
1	5300	50	120	—	70	—	DIP	H11A1FS-ND	.48	.36	.27
1	5300	50	120	—	30	2.8/4.5	SMT	H11A1SM-ND	.59	.47	.36
1	5300	50	120	—	30	2.8/4.5	DIP	H11A1MFS-ND	.59	.47	.36
1	5300	50	120	—	30	2.0/2.0	DIP	H11A1300-ND †	.48	.36	.27
1	5300	20	—	—	70	—	DIP	H11A2FS-ND	.48	.36	.27
1	5300	20	—	—	30	2.3/4.4	DIP	H11A3FS-ND	.48	.36	.27
1	2500	30	—	—	30	2.0/2.0	DIP	H11A5FS-ND	.48	.36	.27
5	5300	20	50	—	30	—	DIP	H11AA1300-ND †	.65	.49	.37
5	2500	20	50	—	30	2.0/2.0	DIP	H11AA1-ND	.65	.49	.37
5	2500	10	20	—	30	2.0/2.0	DIP	H11AA2-ND	.71	.54	.41
5	2500	50	100	—	30	2.0/2.0	DIP	H11AA3-ND	.71	.54	.41
5	2500	100	150	—	30	2.0/2.0	DIP	H11AA4-ND	.78	.59	.44
1	4000	300	—	—	30	5.0/5.0	DIP	H11AG1-ND	.99	.75	.56
1	5300	100	150	300	70	5.0/4.0	DIP	H11AV1AM-ND*	.65	.49	.37
1	5300	100	150	300	70	5.0/4.0	DIP	H11AV1M-ND	.71	.54	.41
2	5300	500	—	—	25	—	DIP	H11B1-ND	.62	.47	.35
2	5300	500	—	—	25	—	DIP	H11B1300-ND †	.62	.47	.35
2	5300	200	—	—	25	—	DIP	H11B2-ND	.62	.47	.35
2	5300	100	—	—	55	25.0/18.0	DIP	H11B255-ND	.62	.47	.35
1	4000	50	—	—	70	3.0/2.5	DIP	CNW11AV2-ND	1.02	.86	.69
1	5300	20	—	—	300	—	DIP	H11D1FS-ND	.99	.75	.56
1	5300	20	—	—	300	5.0/5.0	DIP	H11D1300-ND †	.99	.75	.56
1	5300	20	—	—	300	—	DIP	H11D2-ND	.99	.75	.56
1	5300	20	—	—	300	5.0/5.0	DIP	H11D2300-ND †	.99	.75	.56
1	5300	20	—	—	200	—	DIP	H11D3-ND	.93	.70	.53
6	4000	1000	—	—	100	5/100	DIP	H11G1-ND	.94	.71	.53
6	5300	500	—	—	100	5.0/100	SMT	H11G1S-ND	.94	.71	.53
6	4000	1000	—	—	80	5/100	DIP	H11G2-ND	.94	.71	.53
6	5300	200	—	—	25	—	DIP	H11G3-ND	.87	.66	.50
6	4000	—	250	—	55	50/500	DIP	H11G45QT-ND	1.40	1.12	.84
3	2500	12	27	—	15V	.8/.8	DIP	HCPL2503QT-ND	.98	.82	.66
7	2500	16	18	—	—	1.5/1.5	DIP	HCPL2530-ND	1.94	1.56	1.17
7	2500	19	27	—	—	.8/.8	DIP	HCPL2531-ND	2.06	1.65	1.24
8	2500	300	—	—	7V	20/35	DIP	HCPL2730QT-ND	1.79	1.43	1.08
8	2500	400	—	—	18V	2/10	DIP	HCPL2731QT-ND	2.06	1.65	1.24
1	2500	150	225	—	30	5/5	DIP	MCT210-ND	.94	.71	.53
1	5300	20	60	—	30	6/5	DIP	MCT2200300-ND †	.62	.47	.36
1	2500	20	50	—	30	5/5	DIP	MCT26QT-ND	.33	.31	.28
1	2500	45	67	—	30	7/7	DIP	MCT271-ND	.62	.47	.36
1	2500	20	60	—	30	5/5	DIP	MCT2E-ND	.53	.40	.30
1	5300	20	70	—	30	2.8/4.5	DIP	MCT2EM-ND	.53	.40	.30
1	2500	20	70	—	30	5/5	DIP	MCT2-ND	.53	.40	.30
1	5300	20	70	—	30	2.8/4.5	DIP	MCT2M-ND	.53	.40	.30
1	2500	120	225	—	30	6/19	DIP	MCT5201-ND	.76	.64	.51
1	2500	70	400	—	30	10/12	DIP	MCT5210-ND	.76	.64	.51
1	2500	150	350	—	30	20/20	DIP	MCT5211-ND	.81	.68	.54
9	2500	50	—	—	30	2.4/15	DIP	MCT61-ND	.87	.66	.50
9	2500	100	—	—	30	2.4/15	DIP	MCT62-ND	.94	.71	.53
9	2500	10	—	—	30	5.0/25.0	SMT	MCT62S-ND	.94	.71	.53
9	2500	20	—	—	30	2.4/15	DIP	MCT6-ND	.87	.66	.50
10	2500	50	—	600	55	2.4/2.4	DIP	MCT9001-ND	.96	.72	.54
1	5300	100	300	—	70	10/10	DIP	TIL111-ND	.69	.52	.39
13	5300	300	450	—	30	3.5/95	DIP	MOC119-ND	.69	.52	.39
14	3000	40	60	80	70	3.0/2.8	SMT	MOC205M-ND	.65	.49	.37
14	3000	63	94	125	70	3.0/2.8	SMT	MOC206M-ND	.65	.49	.37
14	3000	100	150	200	70	3.0/2.8	SMT	MOC207M-ND	.65	.49	.37
14	3000	40	80	125	70	3.0/2.8	SMT	MOC208M-ND	.65	.49	.37
14	3000	20	65	—	30	7.5/5.7	SMT	MOC211M-ND	.65	.49	.37
14	3000	50	90	—	30	7.5/5.7	SMT	MOC212M-ND	.65	.49	.37
14	3000	100	140	—	30	7.5/5.7	SMT	MOC213M-ND	.65	.49	.37
14	3000	20	50	—	30	7.5/5.7	SMT	MOC215M-ND	.65	.49	.37
14	3000	50	80	—	30	7.5/5.7	SMT	MOC216M-ND	.65	.49	.37
14	3000	100	130	—	30	7.5/5.7	SMT	MOC217M-ND	.65	.49	.37
15	3000	500	1000	—	30	3.5/95	SMT	MOC223M-ND	.96	.72	.54
16	3000	20	150	—	30	—	SMT	MOC256M-ND	.85	.71	.57
13	5300	500	—	—	50	3.5/95	DIP	MOC8020-MQT-ND	1.05	.99	.91
13	5300	500	—	—	50	3.5/95	DIP	MOC8020-ND	.69	.52	.39
13	5300	1000	—	—	50	3.5/95	DIP	MOC8021-ND	.69	.52	.39
13	5300	300	—	—	80	3.5/95	DIP	MOC8030-ND	.69	.52	.39
13	5300	500	—	—	80	3.5/95	DIP	MOC8050-ND	.71	.54	.41
1	5300	50	100	—	30	9.0/7.0	DIP	MOC8100M-ND	.49	.37	.28
19	5300	50	65	80	30	7.5/5.7	DIP	MOC8101-ND	.55	.42	.32
19	5300	50	—	150	70	7.5/5.7	DIP	MOC8106-ND	.55	.42	.32
19	5300	20	—	—	70	6.0/5.5	DIP	MOC8111-ND	.50	.38	.29
19	5300	50	—	—	70	6.0/5.5	DIP	MOC8112-ND	.50	.38	.29
19	5300	100	—	—	70	6.0/5.5	DIP	MOC8113-ND	.50	.38	.29
10	3000	100	150	200	70	3.0/2.8	SMT	MOCD207M-ND	1.03	.86	.69
10	3000	40	—	125	70	3.0/2.8	SMT	MOCD208M-ND	1.03	.86	.69
10	3000	20	65	—	30	7.5/5.7	SMT	MOCD211M-ND	.90	.75	.60
10	3000	100	—	—	70	3.0/2.8	SMT	MOCD213M-ND	.99	.83	.66
10	3000	100	130	—	30	7.5/5.7	SMT	MOCD217M-ND	1.07	.90	.72
18	3000	500	1000	—	30	3.5/95	SMT	MOCD223M-ND	1.03	.86	.69

† VDE approval * .4” Lead Spacing

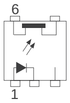
SCR and Triac Output Optoisolators

Fig.	Iso. Volt.	Max I_F Trigger (mA)	Min. Blocking Voltage	Max. I_{DRM}	Pkg. Type	Digi-Key Part No.	Price Each		
							1	10	100
11	5300	15	250V	.100	DIP	MOC3010M-ND	.87	.66	.50
11	5300	10	250V	.100	DIP	MOC3011M-ND	.94	.71	.53
11	5300	5	250V	.100	DIP	MOC3012M-ND	.93	.70	.53
11	5300	5	250V	.100	SMT	MOC3012SM-ND	.93	.70	.53
11	5300	30	400V	.100	DIP	MOC3020MFS-ND	.87	.66	.50
11	5300	15	400V	.100	DIP	MOC3021MFS-ND	.94	.71	.53
11	5300	10	400V	.100	DIP	MOC3022MFS-ND	.93	.70	.53
11	5300	10	400V	.100	DIP	MOC3022VM-ND †	.93	.70	.53
11	5300	5	400V	.100	SMT	MOC3023SM-ND	.93	.70	.53
11	5300	5	400V	.100	DIP	MOC3023TM-ND*	.93	.70	.53
11	5300	5	400V	.100	DIP	MOC3023MFS-ND	.93	.70	.53
12	5300	30	200V	50	DIP	4N39-ND	1.12	.94	.75
12	5300	14	400V	150	DIP	4N40QT-ND	1.12	.94	.75
12	5300	20	200V	50	DIP	H11C1-ND	1.21	1.01	.81
12	5300	20	200V	50	DIP	H11C2-ND	1.08	.90	.72
12	5300	30	200V	50	DIP	H11C3-ND	1.08	.90	.72
12	5300	20	400V	150	DIP	H11C4-ND	1.26	1.05	.84
12	5300	20	400V	150	DIP	H11C5-ND	1.21	1.01	.81
12	5300	30	400V	150	DIP	H11C6-ND	1.12	.94	.75
17	5300	15	250V	.100	DIP	MOC3031M-ND	.93	.78	.63
17	5300	10	250V	.100	DIP	MOC3032M-ND	.93	.78	.63
17	5300	5	250V	.100	DIP	MOC3033M-ND	.93	.78	.63
17	5300	15	400V	.100	DIP	MOC3041M-ND	.93	.78	.63
17	5300	10	400V	.100	DIP	MOC3042M-ND	.93	.78	.63
17	5300	5	400V	.100	DIP	MOC3043M-ND	.93	.78	.63
11	5300	15	600V	.100	DIP	MOC3051M-ND	.93	.78	.63
11	5300	10	600V	.100	DIP	MOC3052M-ND	.93	.78	.63
17	5300	15	600V	.500	DIP	MOC3061M-ND	1.03	.86	.69
17	5300	10	600V	.500	DIP	MOC3062M-ND	1.03	.86	.69
17	5300	5	600V	.500	DIP	MOC3063M-ND	1.03	.86	.69
17	5300	5	600V	.500	DIP	MOC3063TM-ND*	1.03	.86	.69
17	5300	15	800V	.500	DIP	MOC3081M-ND	1.40	1.17	.94
17	5300	10	800V	.500	DIP	MOC3082M-ND	1.40	1.17	.94
17	5300	5	800V	.500	DIP	MOC3083M-ND	1.40	1.17	.94
17	5300	10	600V	.100	DIP	MOC3162M-ND	1.03	.86	.69
17	5300	5	600V	.100	DIP	MOC3163M-ND	1.03	.86	.69

† VDE approval *.4” Lead Spacing

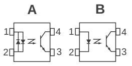
FAIRCHILD SEMICONDUCTOR Optoisolators

Fig. 1



Bilateral Analog FET Output

Fig. 2



4-Pin Transistor Output

Fig. 3

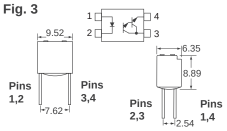
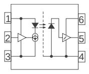
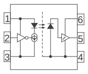


Fig. 4



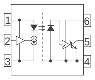
High Speed TTL Buffered Output

Fig. 5



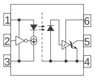
High Speed TTL Inverted Output

Fig. 6



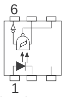
High Speed CMOS Buffered Output

Fig. 7



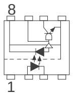
High Speed CMOS Inverted Output

Fig. 8



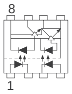
Schmitt Trigger Inverted OC Output

Fig. 9



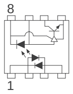
Very High Speed TTL, 5V CMOS Output

Fig. 10



Dual Very High Speed TTL, 5V CMOS Output

Fig. 11



AC Line Monitor TTL Output

4-Pin Couplers

Fig.	Isolation Voltage	Current Transfer Ratio	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
2A	5300	20-300%	35	2.4/2.4	DIP	H11AA814-ND	.56	.42	.32
	5300	50-150%	35	2.4/2.4	DIP	H11AA814A-ND	.56	.42	.32
2B	5300	50-600%	35	2.4/2.4	DIP	H11A817-ND	.45	.36	.27
	5300	80-160%	35	2.4/2.4	DIP	H11A817A-ND	.49	.39	.30
	5300	130-260%	35	2.4/2.4	DIP	H11A817B-ND	.49	.39	.30
	5300	200-400%	35	2.4/2.4	DIP	H11A817C-ND	.49	.39	.30
	5300	300-600%	35	2.4/2.4	DIP	H11A817D-ND	.56	.42	.32
3	5300	100% (Min.)	30	9.0/4.0	DIP	H24A1-ND	2.49	2.00	1.55

Logic Output Optoisolators

Fig.	Function	Input: LSTTL Output	15M Baud Rt. Output Configuration	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
4	Buff.	TTL	Totem Pole	DIP	74OL6000-ND	3.21	2.57	2.00
	Buff.	TTL	Totem Pole	SMT	74OL6000S-ND	3.21	2.57	2.00
5	Inv.	TTL	Totem Pole	DIP	74OL6001-ND	3.21	2.57	2.00
6	Buff.	CMOS	Open Collect.	DIP	74OL6010-ND	3.21	2.57	2.00
7	Inv.	CMOS	Open Collect.	DIP	74OL6011-ND	3.21	2.57	2.00

Fig.	Iso. Volt.	$I_{f_{on}}$ Current (Max.) mA	I_{CCL} (Max.)	Oper. Voltage (Max.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Pricing 1,000
8	5300	1.6	5	16V	SMT	H11L1SM-ND	.99	.83	.66	—
	5300	1.6	5	16V	DIP	H11L1-MQT-ND	.95	.79	.63	—
	5300	1.6	5	16V	DIP	H11L1V-MQT-ND†	.95	.79	.63	—
	5300	10	5	16V	SMT	H11L2S-ND	.86	.72	.58	—
	5300	10	5	16V	DIP	H11L2-MQT-ND	.86	.72	.58	—
	5300	5	5	16V	DIP	H11L3-MQT-ND	.90	.75	.60	—
	5300	3.2	10	16V	DIP	H11N1-MQT-ND	3.32	2.66	2.07	—
	5300	10	10	16V	DIP	H11N3-MQT-ND	2.72	2.18	1.70	—
	5300	4.0	5	16V	DIP	MOC5008M-ND	.90	.76	.61	—
	5300	10.0	5	16V	DIP	MOC5009M-ND	.86	.72	.58	—
8	7500	1.6	5	15V	DIP	H11L1M-ND	.99	.83	.66	—
	7500	60	5	15V	DIP	H11L1SR2MCT-ND*	1.01	.84	.68	446.88
	7500	1.6	5	15V	SMD	H11L1SR2VMCT-ND*	1.01	.84	.68	446.88
	7500	1.6	5	15V	SMD	H11L1SVM-ND†	.99	.83	.66	—
	7500	1.6	5	15V	DIP	H11L1TM-ND	.99	.83	.66	—
	7500	1.6	5	15V	DIP	H11L1TVM-ND†	.99	.83	.66	—
	7500	1.6	5	15V	DIP	H11L1VM-ND	.99	.83	.66	—
	7500	10.0	5	15V	DIP	H11L2M-ND	.90	.75	.60	—
	7500	10.0	5	15V	SMD	H11L2SM-ND	.90	.75	.60	—
	7500	10.0	5	15V	SMD	H11L2SR2MCT-ND*	.92	.77	.62	406.98
	7500	10.0	5	15V	SMD	H11L2SR2VMCT-ND*†	.92	.77	.62	406.98
	7500	10.0	5	15V	SMD	H11L2SVM-ND†	.90	.75	.60	—
	7500	10.0	5	15V	DIP	H11L2TM-ND	.90	.75	.60	—
	7500	10.0	5	15V	DIP	H11L2TVM-ND†	.90	.75	.60	—
	7500	10.0	5	15V	DIP	H11L2VM-ND†	.90	.75	.60	—
	7500	60	5	15V	DIP	H11L3M-ND	.94	.79	.63	—

* For Tape and Reel change CT-ND to TR-ND. † VDE approval

Fig.	Isol. Volt.	Max. Prop. Delay (nS)	Typ. CMR V/µsec.	I_F (mA)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
9	2500	75	10,000	5	DIP	HCPL2601QT-ND	1.40	1.17	.94
	2500	75	10,000	5	DIP	HCPL2611-ND	1.36	1.09	.82
10	2500	75	10,000	5	DIP	HCPL2630QT-ND	2.43	1.95	1.46
	2500	75	10,000	5	DIP	HCPL2631QT-ND	2.36	1.89	1.47
9	2500	75	10,000	5	DIP	6N137QT-ND	1.21	1.01	.81

Fig.	Isolation Voltage	BV_{CEO} (Min.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
11	2500	5V	1/1	DIP	MID400-ND	2.88	2.30	1.79

FET Outputs

Fig.	Isolation Voltage	Rds ON (ohm)	Vbr (Min.)	Typ. t_{on}/t_{off} (µS)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
1	5300	200	30	25/25	DIP	H11F1-ND	2.33	1.87	1.40
	5300	330	30	25/25	DIP	H11F2-ND	2.25	1.80	1.35
	5300	470	15	25/25	DIP	H11F3-ND	2.06	1.65	1.24

LITEON Optoisolators

Fig. 1

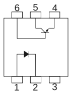


Fig. 2

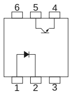


Fig. 3

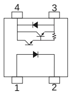


Fig. 4

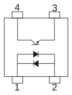


Fig. 5

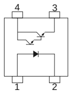


Fig. 6

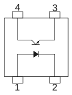


Fig. 7

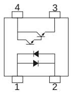


Fig. 8

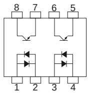


Fig. 9

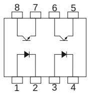


Fig. 10

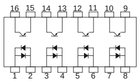


Fig. 11

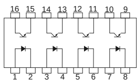
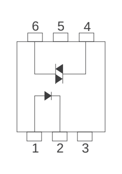


Fig.	Isola-tion Volt.	Current Transfer Ratio Min.	Max.	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	Lite-On Part No.
1	2500	20%	–	30	3.0/3.0	DIP	160-1300-5-ND	.44	.33	.25	4N25
	2500	20%	–	30	3.0/3.0	SMT	160-1301-5-ND	.50	.38	.29	4N25S
	1500	20%	–	30	3.0/3.0	DIP	160-1302-5-ND	.44	.33	.25	4N26
	1500	20%	–	30	3.0/3.0	SMT	160-1303-5-ND	.50	.38	.29	4N26S
	3550	100%	–	30	3.0/3.0	DIP	160-1304-5-ND	.44	.33	.25	4N35
1	3550	100%	–	30	3.0/3.0	SMT	160-1305-5-ND	.50	.38	.29	4N35S
	1500	100%	–	30	3.0/3.0	DIP	160-1306-5-ND	.44	.33	.25	4N37
	1500	100%	–	30	3.0/3.0	SMT	160-1307-5-ND	.50	.38	.29	4N37S
	5000	40%	80%	70	5.0/5.0	DIP	160-1308-5-ND	.44	.33	.25	CNY17-1
	5000	40%	80%	70	5.0/5.0	SMT	160-1309-5-ND	.50	.38	.29	CNY17-1S
1	5000	63%	125%	70	5.0/5.0	DIP	160-1310-5-ND	.44	.33	.25	CNY17-2
	5000	63%	125%	70	5.0/5.0	SMT	160-1311-5-ND	.50	.38	.29	CNY17-2S
	5000	100%	200%	70	5.0/5.0	DIP	160-1312-5-ND	.44	.33	.25	CNY17-3
	5000	100%	200%	70	5.0/5.0	SMT	160-1313-5-ND	.50	.38	.29	CNY17-3S
	5000	160%	320%	70	5.0/5.0	DIP	160-1314-5-ND	.44	.33	.25	CNY17-4
1	5000	160%	320%	70	5.0/5.0	SMT	160-1315-5-ND	.50	.38	.29	CNY17-4S
2	5000	40%	80%	70	5.0/5.0	DIP	160-1316-5-ND	.44	.33	.25	CNY17F-1
2	5000	40%	80%	70	5.0/5.0	SMT	160-1317-5-ND	.50	.38	.29	CNY17F-1S
2	5000	63%	125%	70	5.0/5.0	DIP	160-1318-5-ND	.44	.33	.25	CNY17F-2
2	5000	63%	125%	70	5.0/5.0	SMT	160-1319-5-ND	.50	.38	.29	CNY17F-2S
2	5000	100%	200%	70	5.0/5.0	DIP	160-1320-5-ND	.44	.33	.25	CNY17F-3
2	5000	100%	200%	70	5.0/5.0	SMT	160-1321-5-ND	.50	.38	.29	CNY17F-3S
2	5000	160%	320%	70	5.0/5.0	DIP	160-1322-5-ND	.44	.33	.25	CNY17F-4
2	5000	160%	320%	70	5.0/5.0	SMT	160-1323-5-ND	.50	.38	.29	CNY17F-4S
1	5000	50%	–	30	2.8/4.5	DIP	160-1324-5-ND	.54	.41	.31	H11A1

Fig.	Isola-tion Volt.	Current Transfer Ratio Min.	Max.	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	Lite-On Part No.
1	5000	50%	–	30	2.8/4.5	SMT	160-1325-5-ND	.60	.45	.34	H11A1S
	5000	20%	–	30	2.8/4.5	DIP	160-1326-5-ND	.54	.41	.31	H11A2
	5000	20%	–	30	2.8/4.5	SMT	160-1327-5-ND	.60	.45	.34	H11A2S
	5000	20%	–	300	5.0/5.0	DIP	160-1328-5-ND	.87	.66	.49	H11D1
	5000	20%	–	300	5.0/5.0	SMT	160-1329-5-ND	.93	.70	.53	H11D1S
3	3750	1000%	–	300	100/20	SMT	160-1331-1-ND	.64	.53	.43	LTV-352T
3	3750	1000%	–	300	100/20	SMT	160-1331-2-ND*		238.50/750		LTV-352T
4	3750	20%	400%	35	4.0/3.0	SMT	160-1333-1-ND	.44	.37	.29	LTV-354T
4	3750	20%	400%	35	4.0/3.0	SMT	160-1333-2-ND*		163.13/750		LTV-354T
5	3750	600%	7500%	35	60/53	SMT	160-1335-1-ND	.44	.37	.29	LTV-355T
5	3750	600%	7500%	35	60/53	SMT	160-1335-2-ND*		163.13/750		LTV-335T
6	3750	50%	600%	80	4.0/3.0	SMT	160-1337-1-ND	.35	.30	.24	LTV-356T
6	3750	50%	600%	80	4.0/3.0	SMT	160-1337-2-ND*		132.75/750		LTV-356T
6	3750	50%	600%	35	4.0/3.0	SMT	160-1339-1-ND	.35	.30	.24	LTV-357T
6	3750	50%	600%	35	4.0/3.0	SMT	160-1339-2-ND*		132.75/750		LTV-357T
2	5000	40%	320%	70	2.0/2.0	DIP	160-1340-5-ND	.86	.65	.49	LTV-702F
2	5000	40%	320%	70	2.0/2.0	SMT	160-1341-5-ND	.92	.69	.52	LTV-702FS
1	5000	40%	320%	70	2.0/2.0	DIP	160-1342-5-ND	.80	.60	.45	LTV-702V
1	5000	40%	320%	70	2.0/2.0	SMT	160-1343-5-ND	.86	.65	.49	LTV-702VS
4	5000	20%	300%	35	4.0/3.0	DIP	160-1344-5-ND	.72	.54	.41	LTV-814
4	5000	20%	300%	35	4.0/3.0	SMT	160-1345-5-ND	.78	.59	.44	LTV-814S
8	5000	20%	300%	35	4.0/3.0	DIP	160-1346-5-ND	1.44	1.08	.81	LTV-824
8	5000	20%	300%	35	4.0/3.0	SMT	160-1347-5-ND	1.50	1.13	.85	LTV-824S
10	5000	20%	300%	35	4.0/3.0	DIP	160-1348-5-ND	2.88	2.16	1.62	LTV-844
10	5000	20%	300%	35	4.0/3.0	SMT	160-1349-5-ND	3.12	2.34	1.76	LTV-844S
4	5000	20%	80%	35	4.0/3.0	DIP	160-1350-5-ND	.84	.63	.48	LTV-814H
4	5000	20%	80%	35	4.0/3.0	SMT	160-1351-5-ND	.90	.68	.51	LTV-814HS
8	5000	20%	80%	35	4.0/3.0	DIP	160-1352-5-ND	1.68	1.26	.95	LTV-824H
8	5000	20%	80%	35	4.0/3.0	SMT	160-1353-5-ND	1.74	1.31	.98	LTV-824HS
10	5000	20%	80%	35	4.0/3.0	DIP	160-1354-5-ND	3.36	2.52	1.89	LTV-844H
10	5000	20%	80%	35	4.0/3.0	SMT	160-1355-5-ND	3.48	2.61	1.96	LTV-844HS
7	5000	600%	7500%	35	60/53	DIP	160-1356-5-ND	.96	.72	.54	LTV-8141
7	5000	600%	7500%	35	60/53	SMT	160-1357-5-ND	1.02	.77	.58	LTV-8141S
5	5000	600%	7500%	35	60/53	DIP	160-1358-5-ND	.80	.60	.45	LTV-815
5	5000	600%	7500%	35	60/53	SMT	160-1359-5-ND	.88	.66	.50	LTV-815S
6	5000	50%	600%	80	4.0/3.0	DIP	160-1360-5-ND	.56	.42	.32	LTV-816
6	5000	50%	600%	80	4.0/3.0	SMT	160-1361-5-ND	.62	.47	.35	LTV-816S
9	5000	50%	600%	80	4.0/3.0	DIP	160-1362-5-ND	1.12	.84	.63	LTV-826
9	5000	50%	600%	80	4.0/3.0	SMT	160-1363-5-ND	1.18	.89	.67	LTV-826S
11	5000	50%	600%	80	4.0/3.0	DIP	160-1364-5-ND	2.24	1.68	1.26	LTV-846
11	5000	50%	600%	80	4.0/3.0	SMT	160-1365-5-ND	2.30	1.73	1.30	LTV-846S
6	5000	50%	600%	35	4.0/3.0	DIP	160-1366-5-ND	.44	.33	.25	LTV-817
6	5000	50%	600%	35	4.0/3.0	SMT	160-1367-5-ND	.50	.38	.29	LTV-817S
9	5000	50%	600%	35	4.0/3.0	DIP	160-1368-5-ND	.88	.66	.50	LTV-827
9	5000	50%	600%	35	4.0/3.0	SMT	160-1369-5-ND	.94	.71	.53	LTV-827S
11	5000	50%	600%	35	4.0/3.0	DIP	160-1370-5-ND	1.76	1.32	.99	LTV-847
	5000	50%	600%	35	4.0/3.0	SMT	160-1371-5-ND	1.82	1.37	1.03	LTV-847S

*Tape and Reel Part No.

LITEON Triac Output Optoisolators



Isolation Voltage	Max. IF Trigger (mA)	Min. Blocking Voltage	Max. IR (µA)	Package Type	Digi-Key Part No.	Price Each 1	10	100	Lite-On Part No.
5000	30	400V	10	DIP	160-1372-5-ND	.66	.50	.38	MOC3020
5000	30	400V	10	SMT	160-1373-5-ND	.70	.53	.40	MOC3020S
5000	15	400V	10	DIP	160-1374-5-ND	.66	.50	.38	MOC3021
5000	15	400V	10	SMT	160-1375-5-ND	.70	.53	.40	MOC3021S
5000	10	400V	10	DIP	160-1376-5-ND	.66	.50	.38	MOC3022
5000	10	400V	10	SMT	160-1377-5-ND	.70	.53	.40	MOC3022S
5000	5	400V	10	DIP	160-1378-5-ND	.70	.53	.40	MOC3023
5000	5	400V	10	SMT	160-1379-5-ND	.74	.56	.42	MOC3023S

FAIRCHILD
SEMICONDUCTOR

Infrared Photosensors and Emitters

Fig. 1

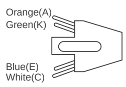


Fig. 2

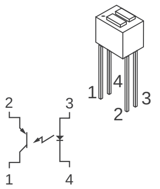


Fig. 3 – TO-46 2 Lead

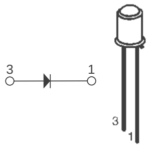


Fig. 4 – TO-46 Flat Window 2 Lead

Fig. 5

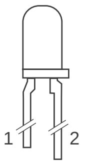


Fig. 6

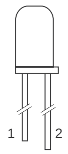


Fig. 7

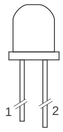
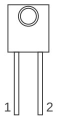


Fig. 8



Reflective Photosensors

Fig.	Output Type	Min/Max Output Ic @ If	Optimum Sensing Distance	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	500
1	Transistor	.6/3 @ 40mA	3.81mm	Leads	QRB1114-ND	1.35	1.13	.90	.63
1	Transistor	.6/3 @ 40mA	3.81mm	Wires	QRB1134-ND	1.94	1.56	1.17	1.05
2	Transistor	1/5 @ 20mA	1.27mm	Leads	QRD1114-ND	.94	.79	.63	.44

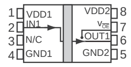
Semiconductor Infrared Emitters (IRED LEDs)

Fig.	For. Volt. (V)	Max. Forward Current (mA)	Min. Power Output	Beam Angle +/-	Peak Wave-Length (nm)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	500
3	1.7	100	6.0mW/sr	8	940	TO-46	1N6264-ND	1.79	1.43	1.08	.97
4	1.7	100	6.0mW	40	940	TO-46	1N6265-ND	1.75	1.41	1.06	.95
3	1.7	100	25.0mW/sr	10	940	TO-46	1N6266-ND	2.43	1.95	1.46	1.32
3	1.7	100	5.4mW	10	940	TO-46	CQX14-ND	1.94	1.56	1.17	1.05
4	1.7	100	5.4mW	40	940	TO-46	CQX15-ND	1.91	1.53	1.15	1.03
3	1.7	100	12.0mW	10	880	TO-46	F5D1-ND	2.13	1.71	1.28	1.16
3	1.7	100	9.0mW	10	880	TO-46	F5D2-ND	2.06	1.65	1.24	1.11
3	1.7	100	10.5mW	10	880	TO-46	F5D3-ND	2.09	1.68	1.26	1.13
4	1.7	100	12.0mW	40	880	TO-46	F5E1-ND	2.13	1.71	1.28	1.16
4	1.7	100	10.5mW	40	880	TO-46	F5E3-ND	2.09	1.68	1.26	1.13
3	1.7	100	1.5mW/sr	10	940	TO-46	LED56-ND	1.87	1.50	1.13	1.01
4	1.7	100	3.5mW/sr	40	940	TO-46	LED55BF-ND	1.87	1.50	1.13	1.01
3	1.7	100	3.5mW/sr	10	940	TO-46	LED55B-ND	1.91	1.53	1.15	1.03
3	1.7	100	5.4mW/sr	8	940	TO-46	LED55C-ND	1.94	1.56	1.17	1.05
5	1.7	50	14mW/sr	8	940	T-1	QEC113-ND	.51	.41	.31	.17
5	1.7	50	27mW/sr	8	880	T-1	QEC122-ND	.56	.42	.32	.20
6	1.5	100	80mW/sr	9	880	T-1 3/4	QED123-ND	.62	.47	.36	.22
6	1.7	100	16mW/sr	20	880	T-1 3/4	QED222-ND	.56	.42	.32	.20
6	1.7	100	25mW/sr	20	880	T-1 3/4	QED223-ND	.62	.47	.36	.22
6	1.5	100	10mW/sr	20	940	T-1 3/4	QED233-ND	.47	.38	.29	.16
6	1.5	100	27mW/sr	20	940	T-1 3/4	QED234-ND	.51	.41	.31	.17
7	1.7	100	18mW/sr	30	880	Plastic TO-46	QED423-ND	.62	.47	.36	.22
7	1.7	100	20mW/sr	15	880	Plastic TO-46	QED522-ND	.56	.42	.32	.20
7	1.7	100	40mW/sr	15	880	Plastic TO-46	QED523-ND	.62	.47	.36	.22
8	1.5	50	3mW/sr	25	940	SIDELOOK	QEE113-ND	.51	.41	.31	.17
8	1.7	50	8mW/sr	25	880	SIDELOOK	QEE123-ND	.56	.42	.32	.20

NVE
NVE CORPORATION

IsoLoop® High Performance Digital Isolators

IL710



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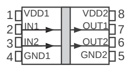

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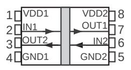

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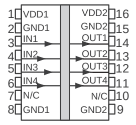

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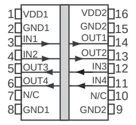

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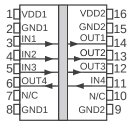

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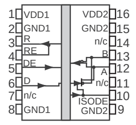

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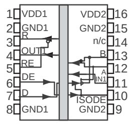
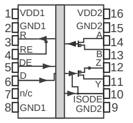


IL422



IsoLoop® digital isolators from NVE are superior performance alternatives to traditional opto-couplers or optoisolators. These highly integrated devices deliver up to 100MBd of data per channel with only 2ns Pulse Width Distortion. They are available in single, dual and quad channel form factors. IsoLoop® bus isolators offer the designer highly compact, isolated RS 485 and RS 422 complaint devices. These high-speed products are ideal for many industrial communication applications, including PROFIBUS.

Features:

IL710, IL711, and IL712: • 100 MBaud Data Rate • 2nS Pulse Width Distortion • 10ns Propagation Delay • 20kV/ms Transient Immunity • 2500 Vrms (1min.) • Dip & SOIC Package

IL715, IL716 and IL717: • 100 MBaud Data Rate • 2nS Pulse Width Distortion • 10ns Propagation Delay • 20kV/ms Transient Immunity • 2500 Vrms (1min.) • Wide Body SOIC Package

IL422: • 2500 Vrms Isolation (1 min) • 25nS Propagation Delay • 25 Mbaud Data Rate • 1 nS Skew • ±60 mA Driver Output Capability • Thermal Shutdown Protection • Meets or Exceeds EIA 422-B, EIA 485-A and ITU Recommendation VII • 16 Pin SOIC Package • UL 1577 Approval (pending)

IL485/IL485W: • 35 MBaud Data Rate • 25ns Propagation Delay • 2500 Vrms Isolation (1 min.) • Wide Body SOIC Package· 20kV/ms Transient Immunity

Supply Voltage	Package Type	Temperature Range	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
3.3/5.0V	8-Dip	-40°C to +100°C	390-1003-ND	3.40	3.15	2.74	2.36	IL710-2
3.3/5.0V	8-SOIC	-40°C to +100°C	390-1004-ND	3.40	3.15	2.74	2.36	IL710-3
3.3/5.0V	8-Dip	-40°C to +100°C	390-1005-ND	5.78	5.35	4.66	4.01	IL711-2
3.3/5.0V	8-SOIC	-40°C to +100°C	390-1006-ND	5.78	5.35	4.66	4.01	IL711-3
3.3/5.0V	8-Dip	-40°C to +100°C	390-1007-ND	5.78	5.35	4.66	4.01	IL712-2
3.3/5.0V	8-SOIC	-40°C to +100°C	390-1008-ND	5.78	5.35	4.66	4.01	IL712-3
3.3/5.0V	16-SOICW	-40°C to +100°C	390-1009-ND	7.46	6.91	6.02	5.18	IL715
3.3/5.0V	16-SOICW	-40°C to +100°C	390-1010-ND	7.46	6.91	6.02	5.18	IL716
3.3/5.0V	16-SOICW	-40°C to +100°C	390-1011-ND	7.46	6.91	6.02	5.18	IL717
3.3/5.0V	16-SOIC	-40°C to +85°C	390-1012-ND	7.46	6.91	6.02	5.18	IL715-3
3.3/5.0V	16-SOIC	-40°C to +85°C	390-1013-ND	7.46	6.91	6.02	5.18	IL716-3
3.3/5.0V	16-SOIC	-40°C to +85°C	390-1014-ND	7.46	6.91	6.02	5.18	IL717-3
5.0V	16-SOICW	-40°C to +85°C	390-1000-ND	8.66	8.02	6.98	6.01	IL422
5.0V	16-SOICW	-40°C to +85°C	390-1001-ND	8.42	7.79	6.79	5.85	IL485
5.0V	16-SOICW	-40°C to +85°C	390-1002-ND	8.90	8.24	7.18	6.18	IL485W

Fig. 1

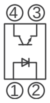


Fig. 2

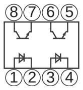


Fig. 3

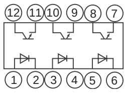


Fig. 4

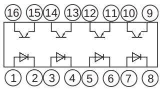


Fig. 5

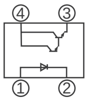


Fig. 6

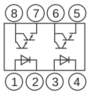


Fig. 7

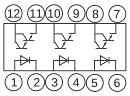
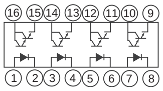


Fig. 8



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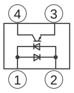


Fig. 10

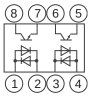


Fig. 11

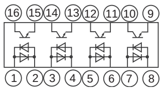


Fig. 12

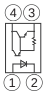


Fig. 13

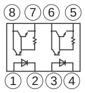


Fig. 14

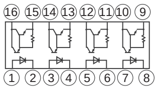


Fig. 15

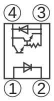


Fig. 16

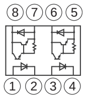


Fig. 17

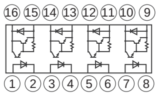


Fig. 18

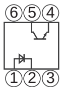


Fig. 19

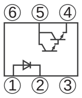


Fig. 20

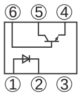


Fig. 21

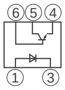


Fig. 22

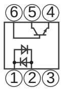


Fig. 23

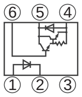


Fig. 24

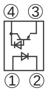


Fig. 25

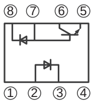


Fig. 26

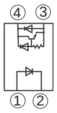


Fig. 27

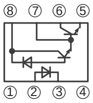


Fig. 28

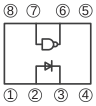


Fig.	Output		Current Transfer Ratio				Isolation Voltage	Dimensions - mm			Package	Digi-Key	Tube Price Each			Sharp
	VCEO (V) Max.	IC (mA) Max.	Min. (%)	Max. (%)	@ IF (mA)	@ Vce (V)	(Vrms)	Length	Width	Pitch	Type	Part No.	1	10	100	Part No.
Tube																
1	35	20	10	100	20	5	5000	6.0	16.2	2.54	4-Dip	425-1406-5-ND*	2.18	1.74	1.44	PC512
	35	50	10	100	1	0.4	5000	4.58	6.5	2.54	4-Dip	425-1472-5-ND	1.28	1.02	.85	PC818
	35	50	10	100	1	0.4	5000	4.58	6.5	2.54	4-SMT	425-1473-5-ND	1.02	.85	.68	PC818I
	35	50	10	100	1	0.4	5000	4.58	6.5	2.54	4-Dip	425-1475-5-ND*	1.60	1.28	1.06	PC818Y
	35	50	20	200	1	5	5000	9.66	6.5	2.54	8-Dip	425-1476-5-ND†	2.90	2.39	1.94	PC823
	35	50	50	600	5	5	5000	4.58	6.5	2.54	4-Dip	425-1464-5-ND	.44	.31	.22	PC817X
	35	50	50	600	5	5	5000	4.58	6.5	2.54	4-SMD	425-1455-5-ND	.48	.33	.24	PC817XI
	35	50	60	120	1	0.4	5000	4.58	6.5	2.54	4-SMD	425-1435-5-ND	1.50	1.25	1.00	PC810AI
	35	50	60	200	1	0.4	5000	4.58	6.5	2.54	6-Dip	425-1434-5-ND	1.35	1.13	.90	PC810
	35	50	60	200	1	0.4	5000	4.58	6.5	2.54	4-SMD	425-1436-5-ND	1.43	1.14	.95	PC810I
	35	50	80	160	5	5	5000	4.58	6.5	2.54	4-Dip	425-1465-5-ND	.48	.33	.24	PC817X1
	35	50	80	160	5	5	5000	4.58	6.5	2.54	4-SMD	425-1470-5-ND	.52	.36	.26	PC817XI1
	35	50	130	260	5	5	5000	4.58	6.5	2.54	4-Dip	425-1466-5-ND	.48	.33	.24	PC817X2
	35	50	130	260	5	5	5000	4.58	6.5	2.54	4-SMD	425-1471-5-ND	.52	.36	.26	PC817XI2
	35	50	200	400	5	5	5000	4.58	6.5	2.54	4-Dip	425-1467-5-ND	.48	.33	.24	PC817X3
	35	50	200	600	5	5	5000	4.58	6.5	2.54	4-Dip	425-1469-5-ND	.52	.36	.26	PC817X7
	35	50	300	600	5	5	5000	4.58	6.5	2.54	4-Dip	425-1468-5-ND	.48	.33	.24	PC817X4
	70	50	50	150	0.5	5	5000	4.58	6.5	2.54	4-Dip	425-1311-5-ND	.68	.47	.34	PC123A
	70	50	50	150	5	5	5000	4.58	6.5	2.54	4-Dip	425-1318-5-ND*	.80	.55	.40	PC123Y1
	70	50	50	400	0.5	5	5000	4.58	6.5	2.54	4-Dip	425-1310-5-ND	.72	.50	.36	PC12311NSZ
	70	50	50	400	0.5	5	5000	4.58	6.5	2.54	4-Dip	425-1309-5-ND	.68	.47	.34	PC12310NSZ
	70	50	50	400	5	5	5000	4.58	6.5	2.54	4-Dip	425-1308-5-ND	.60	.42	.30	PC123
	70	50	50	400	5	5	5000	4.58	6.5	2.54	4-Dip	425-1317-5-ND*	.76	.53	.38	PC123Y
	70	50	100	200	0.5	5	5000	4.58	6.5	2.54	4-Dip	425-1316-5-ND	.76	.53	.38	PC123S
	70	50	100	200	5	5	5000	4.58	6.5	2.54	4-Dip	425-1320-5-ND*	.84	.58	.42	PC123YS
	70	50	100	250	0.5	5	5000	4.58	6.5	2.54	4-Dip	425-1312-5-ND	.68	.47	.34	PC123B
	70	50	100	250	5	5	5000	4.58	6.5	2.54	4-Dip	425-1319-5-ND*	.80	.55	.40	PC123Y2
	70	50	100	600	.5	5	5000	4.58	6.5	2.54	4-Dip	425-1456-5-ND	.64	.44	.32	PC81710NSZ
	70	50	120	300	.5	5	5000	4.58	6.5	2.54	4-Dip	425-1458-5-ND	.64	.44	.32	PC81711NSZ
	70	50	160	400	.5	5	5000	4.58	6.5	2.54	4-Dip	425-1460-5-ND	.64	.44	.32	PC81712NSZ
	70	50	200	500	.5	5	5000	4.58	6.5	2.54	4-Dip	425-1462-5-ND	.64	.44	.32	PC81713NSZ
	350	50	40	80 Typ.	5	5	5000	4.58	6.5	2.54	4-Dip	425-1503-5-ND	.80	.55	.40	PC851X
	350	50	40	80 Typ.	5	5	5000	4.58	6.5	2.54	4-SMD	425-1504-5-ND	.88	.61	.44	PC851XI
2	35	50	50	400	5	5	5000	9.66	6.5	2.54	8-Dip	425-1486-5-ND	1.32	1.10	.88	PC829
	35	50	50	400	5	5	5000	9.66	6.5	2.54	8-Dip	425-1487-5-ND*	1.35	1.08	.90	PC829Y
	35	50	50	600	5	5	5000	9.66	6.5	2.54	8-Dip	425-1481-5-ND	.84	.70	.56	PC827
	35	50	80	260	5	5	5000	9.66	6.5	2.54	8-Dip	425-1482-5-ND	.93	.78	.62	PC827AB
	35	50	80	600	5	5	5000	9.66	6.5	2.54	8-Dip	425-1483-5-ND	.87	.73	.58	PC827AD
	35	50	130	600	5	5	5000	9.66	6.5	2.54	8-Dip	425-1484-5-ND	.87	.73	.58	PC827BD
	35	50	200	600	5	5	5000	9.66	6.5	2.54	8-Dip	425-1485-5-ND	.90	.75	.60	PC827CD
	80	50	100	—	1	.5	5000	9.66	6.5	2.54	8-Dip	425-1514-5-ND	1.20	1.00	.80	PC8D66
	80	50	1000	—	1	.5	5000	4.58	6.5	2.54	4-Dip	425-1509-5-ND	.76	.53	.38	PC866
	80	50	1000	—	1	.5	5000	4.58	6.5	2.54	4-Dip	425-1510-5-ND‡	.88	.61	.44	PC866Q
3	35	50	50	600	5	5	5000	14.74	6.5	2.54	12-Dip	425-1490-5-ND	1.44	1.20	.96	PC837
	35	50	50	600	5	5	5000	14.74	6.5	2.54	12-Dip	425-1492-5-ND*	1.55	1.24	1.03	PC837Y
4	35	50	50	400	5	5	5000	19.82	6.5	2.54	16-Dip	425-1501-5-ND	2.20	1.76	1.46	PC849
	35	50	50	400	5	5	5000	19.82	6.5	2.54	16-Dip	425-1502-5-ND*	2.43	2.00	1.62	PC849Y
	70	50	50	600	5	5	5000	19.82	6.5	2.54	16-Dip	425-1499-5-ND	1.35	1.13	.90	PC847X
	70	50	200	600	5	5	5000	19.82	6.5	2.54	16-Dip	425-1500-5-ND	1.35	1.13	.90	PC847X7
	80	50	100	—	1	.5	5000	19.82	6.5	2.54	16-Dip	425-1518-5-ND	2.03	1.62	1.34	PC8Q66
	300	50	40	80 Typ.	5	5	5000	19.82	6.5	2.54	16-Dip	425-1516-5-ND	6.12	5.04	4.08	PC8Q51

† AC Input # Darlington Output * Din/VDE 0884 ‡ Burn-in type ◊ Power dissipation: PC852XI: 200 and PC853XI: 320 *(Continued)*

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
	V_{CEO} (V) Max.	I_C (mA) Max.	Min. (%)	Max. (%)	@ I_F (mA)	@ Vce (V)		Length	Width	Pitch			1	10	100	
5	35	80	600	7500	1	2	5000	4.58	6.5	2.54	4-Dip	425-1450-5-ND#	.93	.78	.62	PC815
	35	80	600	7500	1	2	5000	4.58	6.5	2.54	4-SMD	425-1452-5-ND#	.96	.80	.64	PC815I
	35	80	600	7500	1	2	5000	4.58	6.5	2.54	4-SMD	425-1453-5-ND*#	1.28	1.02	.85	PC815IY
	35	80	600	7500	1	2	5000	4.58	6.5	2.54	4-SMD	425-1454-5-ND*#	1.29	1.08	.86	PC815Y
	35	80	600	12000	.5	2	5000	4.58	6.5	2.54	4-Dip	425-1451-5-ND#	.96	.66	.48	PC81510NSZ
6	35	80	600	7500	1	2	5000	9.66	6.5	2.54	8-Dip	425-1479-5-ND#	1.43	1.14	.95	PC825
	35	80	600	7500	1	2	5000	9.66	6.5	2.54	8-Dip	425-1480-5-ND*#	1.83	1.46	1.21	PC825Y
7	35	80	600	7500	1	2	5000	14.74	6.5	2.54	12-Dip	425-1488-5-ND#	2.20	1.76	1.46	PC835
	35	80	600	7500	1	2	5000	14.74	6.5	2.54	12-Dip	425-1489-5-ND*#	2.54	2.10	1.70	PC835Y
8	35	80	600	7500	1	2	5000	19.82	6.5	2.54	16-Dip	425-1496-5-ND#	2.79	2.30	1.86	PC845
	35	80	600	7500	1	2	5000	19.82	6.5	2.54	16-SMD	425-1497-5-ND#	2.32	1.91	1.55	PC845I
	35	80	600	7500	1	2	5000	19.82	6.5	2.54	16-Dip	425-1498-5-ND*#	3.08	2.54	2.06	PC845Y
9	35	50	20	300	1	5	5000	4.58	6.5	2.54	4-Dip	425-1446-5-ND†	.56	.39	.28	PC814X
	35	50	50	150	1	5	5000	4.58	6.5	2.54	4-Dip	425-1447-5-ND†	.60	.42	.30	PC814X1
	70	50	50	400	.5	5	5000	4.58	6.5	2.54	4-Dip	425-1444-5-ND†	.80	.55	.40	PC81410NSZ
	70	50	100	300	.5	5	5000	4.58	6.5	2.54	4-Dip	425-1445-5-ND†	.88	.61	.44	PC81411NSZ
10	35	50	20	300	1	5	5000	9.66	6.5	2.54	8-Dip	425-1477-5-ND†	1.32	1.10	.88	PC824
	35	50	50	150	1	5	5000	9.66	6.5	2.54	8-Dip	425-1478-5-ND†	1.08	.90	.72	PC824A
11	35	50	20	300	1	5	5000	19.82	6.5	2.54	16-SMD	425-1493-5-ND	1.40	1.12	.93	PC844IJ1
	35	50	20	300	1	5	5000	19.82	6.5	2.54	16-Dip	425-1494-5-ND	1.38	1.10	.91	PC844X
	35	50	150	300	1	5	5000	19.82	6.5	2.54	16-Dip	425-1495-5-ND	1.48	1.18	.98	PC844X1
12	70	80	1000	8000	1	2	5000	4.58	6.5	2.54	4-Dip	425-1508-5-ND#	.96	.80	.64	PC865
13	70	80	1000	8000	1	2	5000	9.66	6.5	2.54	8-Dip	425-1511-5-ND	1.65	1.32	1.09	PC875
14	70	80	1000	8000	1	2	5000	19.82	6.5	2.54	16-Dip	425-1512-5-ND	2.97	2.45	1.98	PC895
15	350	150	1000	15000	1	2	5000	4.58	6.5	2.54	4-Dip	425-1773-5-ND#	.88	.61	.44	PC852X
	350	150	1000	15000	1	2	5000	4.58	6.5	2.54	4-SMD	425-1505-5-ND#◊	.96	.66	.48	PC852XI
	350	150	1000	15000	1	2	5000	4.58	6.5	2.54	4-Dip	425-1506-5-ND#	.92	.64	.46	PC853X
	350	150	1000	15000	1	2	5000	4.58	6.5	2.54	4-SMD	425-1507-5-ND#◊	1.00	.69	.50	PC853XI
16	300	150	1000	15000	1	2	5000	9.66	6.5	2.54	8-Dip	425-1513-5-ND	2.81	2.32	1.88	PC8D52
17	300	150	1000	15000	1	2	5000	19.82	6.5	2.54	16-Dip	425-1517-5-ND#	4.59	3.78	3.06	PC8Q52
18	35	50	50	600	5	5	5000	7.12	6.5	2.54	6-Dip	425-1418-5-ND	.76	.53	.38	PC714V0NSZX
	35	50	50	600	5	5	5000	7.12	6.5	2.54	6-Dip	425-1419-5-ND*	.84	.58	.42	PC714V0YSZX
	35	80	20	80	100	2	5000	7.12	6.5	2.54	6-Dip	425-1426-5-ND*	.88	.61	.44	PC724V0NSZX
19	35	80	600	7500	1	2	5000	7.12	6.5	2.54	6-Dip	425-1420-5-ND#	.88	.61	.44	PC715V0NSZX
	35	80	600	7500	1	2	5000	7.12	6.5	2.54	6-Dip	425-1421-5-ND*#	.96	.66	.48	PC715V0YSZX
	35	200	1000	15000	1	2	5000	7.12	6.5	2.54	6-Dip	425-1422-5-ND#	.81	.68	.54	PC716V0NSZX
	35	200	1000	15000	1	2	5000	7.12	6.5	2.54	6-Dip	425-1423-5-ND*#	.84	.70	.56	PC716V0YSZX
20	35	50	50	600	5	5	5000	7.12	6.5	2.54	6-Dip	425-1416-5-ND	.80	.55	.40	PC713V0NSZX
	35	50	50	600	5	5	5000	7.12	6.5	2.54	6-Dip	425-1417-5-ND*	.84	.58	.42	PC713V0YSZX
	70	50	40	320	10	5	5000	7.12	6.5	2.54	6-Dip	425-1411-5-ND	.88	.61	.44	PC702V0NSZX
	70	50	40	320	10	5	5000	7.12	6.5	2.54	6-Dip	425-1412-5-ND*	.96	.66	.48	PC702V0YSZX
	70	50	40	320	10	5	5000	7.12	6.5	2.54	6-SMD	425-1413-5-ND	.92	.64	.46	PC703V0NIZX
	70	50	40	320	10	5	5000	7.12	6.5	2.54	6-Dip	425-1414-5-ND	.88	.61	.44	PC703V0NSZX
	70	50	40	320	10	5	5000	7.12	6.5	2.54	6-Dip	425-1415-5-ND*	.92	.64	.46	PC703V0YSZX
	80	50	50	400	5	5	5000	7.12	6.5	2.54	6-Dip	425-1424-5-ND	.96	.66	.48	PC723V0NSZX
	80	50	50	400	5	5	5000	7.12	6.5	2.54	6-Dip	425-1425-5-ND*	1.00	.69	.50	PC723V0YSZX
22	35	50	15	300	1	5	5000	9.22	6.5	2.54	6-Dip	425-1431-5-ND†	1.35	1.08	.90	PC733
	35	80	20	80	100	2	5000	9.22	6.5	2.54	6-Dip	425-1432-5-ND†	1.53	1.22	1.01	PC733H
23	300	150	1000	15000	1	2	5000	7.12	6.5	2.54	6-SMD	425-1427-5-ND#	1.20	1.00	.80	PC725V0NIZX
	300	150	1000	15000	1	2	5000	7.12	6.5	2.54	6-Dip	425-1428-5-ND#	1.17	.98	.78	PC725V0NSZX
	300	150	1000	15000	1	2	5000	7.12	6.5	2.54	6-Dip	425-1429-5-ND*	1.20	1.00	.80	PC725V0YSZX
	300	150	1000	15000	1	2	5000	7.12	6.5	2.54	6-SMD	425-1430-5-ND*	1.23	1.03	.82	PC725V0YUZX
25	15VCC	25	19	40 Typ.	16	4.5	2500	9.22	6.5	2.54	8-Dip	425-1798-5-ND	1.75	1.40	1.16	PC6N136X
26	70	30	50	400	5	5	5000	4.58	6.5	2.54	4-Dip	425-1437-5-ND	.84	.58	.42	PC81100NSZ
	70	30	60	120	5	5	5000	4.58	6.5	2.54	4-Dip	425-1438-5-ND	.88	.61	.44	PC81101NSZ
	70	30	60	200	5	5	5000	4.58	6.5	2.54	4-Dip	425-1441-5-ND	.84	.58	.42	PC81105NSZ
	70	30	60	300	5	5	5000	4.58	6.5	2.54	4-Dip	425-1443-5-ND	.84	.58	.42	PC81108NSZ
	70	30	100	200	5	5	5000	4.58	6.5	2.54	4-Dip	425-1439-5-ND	.88	.61	.44	PC81102NSZ
	70	30	100	300	5	5	5000	4.58	6.5	2.54	4-Dip	425-1442-5-ND	.84	.58	.42	PC81106NSZ
	70	30	150	300	5	5	5000	4.58	6.5	2.54	4-Dip	425-1440-5-ND	.88	.61	.44	PC81103NSZ
27	7VCC	20	300	—	1.6	4.5	2500	9.22	6.5	2.54	8-Dip	425-1800-5-ND	1.98	1.58	1.31	PC6N138X
	18VCC	20	500	—	1.6	4.5	2500	9.22	6.5	2.54	8-Dip	425-1801-5-ND	1.88	1.50	1.24	PC6N139X
28	7VCC	20	—	—	—	—	2500	9.22	6.5	2.54	8-Dip	425-1799-5-ND	1.78	1.42	1.18	PC6N137X

† AC Input # Darlington Output * Din/VDE 0884 ‡ Burn-in type ◊ Power dissipation: PC852XI: 200 and PC853XI: 320

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Sharp Part No.
	V_{CEO} (V) Max.	I_C (mA) Max.	Min. (%)	Max. (%)	@ I_F (mA)	@ Vce (V)		Length	Width	Pitch			1	10	100		Size	Pricing	
Cut Tape / Tape & Reel																			
1	35	50	50	600	5	5	3750	3.6	4.4	2.54	4-SMD	425-1328-1-ND	.48	.40	.32	425-1328-2-ND	3,000	224.00/M	PC357N
	35	50	50	600	5	5	3750	3.6	4.4	2.54	4-SMD	425-1334-1-ND	.51	.43	.34	425-1334-2-ND	750	178.50	PC357NT
	35	50	80	160	5	5	3750	3.6	4.4	2.54	4-SMD	425-1330-1-ND	.51	.43	.34	425-1330-2-ND	3,000	238.00/M	PC357N1
	35	50	80	600	5	5	3750	3.6	4.4	2.54	4-SMD	425-1329-1-ND	.51	.43	.34	425-1329-2-ND	3,000	238.00/M	PC357N0
	35	50	130	260	5	5	3750	3.6	4.4	2.54	4-SMD	425-1331-1-ND	.51	.43	.34	425-1331-2-ND	3,000	238.00/M	PC357N2
	35	50	200	400	5	5	3750	3.6	4.4	2.54	4-SMD	425-1332-1-ND	.51	.43	.34	425-1332-2-ND	3,000	238.00/M	PC357N3
	35	50	300	600	5	5	3750	3.6	4.4	2.54	4-SMD	425-1333-1-ND	.51	.43	.34	425-1333-2-ND	3,000	238.00/M	PC357N4
	70	50	20	400	1	5	2500	2.6	4.4	1.27	4-SMD	425-1341-1-ND†	.51	.43	.34	425-1341-2-ND†	3,000	238.00/M	PC3H4
	70	50	20	400	1	5	2500	2.6	4.4	1.27	4-SMD	425-1347-1-ND	.45	.38	.30	425-1347-2-ND	3,000	210.00/M	PC3H7
	70	50	35	70	1	5	2500	2.6	4.4	1.27	4-SMD	425-1352-1-ND	.51	.43	.34	425-1352-2-ND	3,000	238.00/M	PC3H7A
	70	50	50	100	1	5	2500	2.6	4.4	1.27	4-SMD	425-1353-1-ND	.51	.43	.34	425-1353-2-ND	3,000	238.00/M	PC3H7B
	70	50	50	400	0.5	5	5000	4.58	6.5	2.54	4-SMD	425-1313-1-ND	.48	.40	.32	425-1313-2-ND	2,000	224.00/M	PC123P
	70	50	50	400	5	5	5000	4.58	6.5	2.54	4-SMD	425-1321-1-ND*	.48	.40	.32	425-1321-2-ND*	2,000	224.00/M	PC123ZY2
	70	50	80	160	1	5	2500	2.6	4.4	1.27	4-SMD	425-1354-1-ND	.51	.43	.34	425-1354-2-ND	3,000	238.00/M	PC3H7C
	70	50	100	250	0.5	5	5000	4.58	6.5	2.54	4-SMD	425-1315-1-ND*	.72	.60	.48	425-1315-2-ND*	2,000	336.00/M	PC123PY2
	70	50	100	250	0.5	5	5000	4.58	6.5	2.54	4-SMD	425-1314-1-ND	.51	.43	.34	425-1314-2-ND	2,000	238.00/M	PC123P2
	70	50	100	500	0.5	5	3750	3.6	4.4	2.54	4-SMD	425-1338-1-ND	.51	.43	.34	425-1338-2-ND	3,000	238.00/M	PC367N
	70	50	100	600	0.5	5	5000	4.58	6.5	2.54	4-SMD	425-1383-1-ND	.57	.48	.38	425-1383-2-ND	2,000	266.00/M	PC81710NIP
	70	50	100	600	0.5	5	2500	10.3	4.4	1.27	16-SMD	425-1361-1-ND	2.04	1.79	1.43	425-1361-2-ND	1,000	1291.32	PC3Q710NIP
	70	50	100	700	0.5	5	2500	2.6	4.4	1.27	4-SMD	425-1348-1-ND	.54	.45	.36	425-1348-2-ND	3,000	252.00/M	PC3H710NIP
	70	50	120	240	1	5	2500	2.6	4.4	1.27	4-SMD	425-1355-1-ND	.51	.43	.34	425-1355-2-ND	3,000	238.00/M	PC3H7D

† AC Input # Darlington Output * Din/VDE 0884

(Continued)

Photocoupler *(Cont.)*

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Sharp Part No.
	VCEO (V) Max.	IC (mA) Max.	Min. (%)	Max. (%)	@ IF (mA)	@ Vce (V)		Length	Width	Pitch			1	10	100		Size	Pricing	
Cut Tape / Tape & Reel (cont.)																			
1	70	50	120	300	0.5	5	5000	4.58	6.5	2.54	4-SMD	425-1457-1-ND	.60	.50	.40	425-1457-2-ND	2,000	280.00/M	PC81711NIP
	70	50	140	350	0.5	5	2500	2.6	4.4	1.27	4-SMD	425-1349-1-ND	.60	.50	.40	425-1349-2-ND	3,000	280.00/M	PC3H711NIP
	70	50	140	500	0.5	5	2500	2.6	4.4	1.27	4-SMD	425-1351-1-ND	.60	.50	.40	425-1351-2-ND	3,000	280.00/M	PC3H715NIP
	70	50	150	300	0.5	5	3750	3.6	4.4	2.54	4-SMD	425-1339-1-ND	.57	.48	.38	425-1339-2-ND	3,000	266.00/M	PC367NI
	70	50	160	400	0.5	5	5000	4.58	6.5	2.54	4-SMD	425-1459-1-ND	.60	.50	.40	425-1459-2-ND	2,000	280.00/M	PC81712NIP
	70	50	200	400	0.5	5	3750	3.6	4.4	2.54	4-SMD	425-1340-1-ND	.54	.45	.36	425-1340-2-ND	3,000	252.00/M	PC367N2
	70	50	200	500	0.5	5	2500	2.6	4.4	1.27	4-SMD	425-1350-1-ND	.60	.50	.40	425-1350-2-ND	3,000	280.00/M	PC3H712NIP
	70	50	200	500	0.5	5	5000	4.58	6.5	2.54	4-SMD	425-1461-1-ND	.57	.48	.38	425-1461-2-ND	2,000	266.00/M	PC81713NIP
	350	50	40	80 Typ.	5	5	3750	3.6	4.4	2.54	4-SMD	425-1525-1-ND	.99	.83	.66	425-1525-2-ND	3,000	429.00/M	PC451
	350	50	40	240	5	5	2500	2.6	4.4	1.27	4-SMD	425-1378-1-ND	.69	.58	.46	425-1378-2-ND	3,000	322.00/M	PC4H510NIP
4	35	50	50	600	5	5	2500	10.3	4.4	1.27	16-SMD	425-1360-1-ND	2.10	1.84	1.47	425-1360-2-ND	1,000	1329.30	PC3Q67
5	35	80	600	7500	1.0	2	3750	3.6	4.4	2.54	4-SMD	425-1326-1-ND#	.72	.60	.48	425-1326-2-ND#	3,000	336.00/M	PC355N
	35	80	600	7500	1	2	2500	2.6	4.4	1.27	4-SMD	425-1345-1-ND#	.63	.53	.42	425-1345-2-ND#	3,000	294.00/M	PC3H5
	35	80	600	12000	0.5	2	3750	3.6	4.4	2.54	4-SMD	425-1337-1-ND#	.60	.50	.40	425-1337-2-ND#	3,000	280.00/M	PC365N
	35	80	600	12000	0.5	2	2500	2.6	4.4	1.27	4-SMD	425-1346-1-ND#	.69	.58	.46	425-1346-2-ND#	3,000	322.00/M	PC3H510NIP
8	35	80	600	7500	1	2	2500	10.3	4.4	1.27	16-SMD	425-1359-1-ND#	2.12	1.86	1.49	425-1359-2-ND#	1,000	1341.96	PC3Q65
	35	80	600	12000	0.5	2	2500	10.3	4.4	1.27	16-SMD	425-1357-1-ND#	2.26	1.98	1.59	425-1357-2-ND#	1,000	1430.58	PC3Q510NIP
9	35	50	20	300	1	5	5000	4.58	6.5	2.54	4-SMD	425-1448-1-ND†	.63	.53	.42	425-1448-2-ND†	2,000	294.00/M	PC814XP
	35	50	20	400	1.0	5	3750	3.6	4.4	2.54	4-SMD	425-1324-1-ND†	.51	.43	.34	425-1324-2-ND†	3,000	238.00/M	PC354N
	35	50	50	150	1.0	5	3750	3.6	4.4	2.54	4-SMD	425-1325-1-ND†	.72	.60	.48	425-1325-2-ND†	3,000	336.00/M	PC354N1
	35	50	50	150	1	5	5000	4.58	6.5	2.54	4-SMD	425-1449-1-ND	.63	.53	.42	425-1449-2-ND	2,000	294.00/M	PC814XP1
	70	50	50	400	0.5	5	3750	3.6	4.4	2.54	4-SMD	425-1335-1-ND†	.69	.58	.46	425-1335-2-ND†	3,000	322.00/M	PC364N
	70	50	50	400	0.5	5	2500	2.6	4.4	1.27	4-SMD	425-1342-1-ND†	.69	.58	.46	425-1342-2-ND†	3,000	322.00/M	PC3H410NIP
	70	50	100	300	0.5	5	3750	3.6	4.4	2.54	4-SMD	425-1336-1-ND†	.72	.60	.48	425-1336-2-ND†	3,000	336.00/M	PC364N1
	70	50	100	300	0.5	5	2500	2.6	4.4	1.27	4-SMD	425-1343-1-ND†	.69	.58	.46	425-1343-2-ND†	3,000	322.00/M	PC3H411NIP
11	35	50	20	400	1	5	2500	10.3	4.4	1.27	16-SMD	425-1358-1-ND†	2.54	2.23	1.78	425-1358-2-ND†	1,000	1607.82	PC3Q64
	70	50	50	150	1	5	2500	2.6	4.4	1.27	4-SMD	425-1344-1-ND†	.54	.45	.36	425-1344-2-ND†	3,000	252.00/M	PC3H4A
	70	50	50	400	0.5	5	2500	10.3	4.4	1.27	16-SMD	425-1356-1-ND†	2.54	2.23	1.78	425-1356-2-ND†	1,000	1607.82	PC3Q410NIP
15	300	150	1000	—	1	2	3750	3.6	4.4	2.54	4-SMD	425-1526-1-ND	1.17	.98	.78	425-1526-2-ND	3,000	507.00/M	PC452
	350	120	1000	12000	1	2	2500	2.6	4.4	1.27	4-SMD	425-1379-1-ND	.78	.65	.52	425-1379-2-ND	3,000	338.00/M	PC4H520NIP
18	35	80	20	80	100	2	5000	7.12	6.5	2.54	6-SMD	425-1382-1-ND	.78	.65	.52	425-1382-2-ND	1,000	338.00	PC724V0NIPX
21	80	50	50	600	5	5	3750	3.6	4.4	1.27	5-SMD	425-1323-1-ND	.93	.78	.62	425-1323-2-ND	750	302.25	PC353T
24	6	150	1500	—	5	2	3750	3.6	4.4	2.54	4-SMD	425-1524-1-ND	1.23	1.03	.82	425-1524-2-ND	750	399.75	PC450T11

† AC Input # Darlington Output * Din/VDE 0884

OPIC™ Photocoupler

Fig. 1

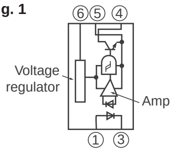


Fig. 2

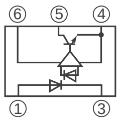


Fig. 3

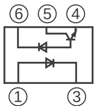


Fig. 4

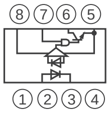


Fig. 5

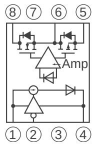


Fig. 6

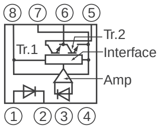


Fig. 7

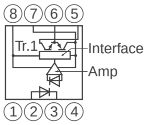


Fig. 8

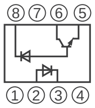


Fig. 9

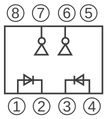


Fig. 10

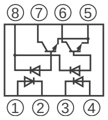


Fig. 11

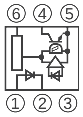


Fig.	Vcc Max. (V)	Prop Delay (us) Typ.		Isolation Voltage (Vrms)	Dimensions- mm			Package Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
		H-L	L-H		Length	Width	Pitch			1	10	100	
Tube													
4	7	.048	.05	5000	9.66	6.5	2.54	8-Dip	425-1533-5-ND	1.53	1.22	1.01	PC910L0NSZ
	7	.048	.05	5000	9.66	6.5	2.54	8-Dip	425-1534-5-ND*	1.58	1.26	1.04	PC910L0YSZ
5	5.5	.02	.023	5000	9.66	6.5	2.54	8-Dip	425-1535-5-ND	4.37	3.59	2.91	PC912L0NSZ
6	13	2	2	5000	9.66	6.5	2.54	8-SMD	425-1537-5-ND	1.43	1.14	.95	PC922XI
	30	1	1	5000	9.66	6.5	2.54	8-Dip	425-1541-5-ND	1.50	1.20	.99	PC924X
	30	1	1	5000	9.66	6.5	2.54	8-SMD	425-1542-5-ND	1.68	1.34	1.11	PC924XI
	13	2	2	5000	9.66	6.5	2.54	8-Dip	425-1545-5-ND	1.20	1.00	.80	PC942
7	30	.3	.3	5000	9.66	6.5	2.54	8-Dip	425-1538-5-ND	2.08	1.66	1.37	PC923X
	30	.3	.3	5000	9.66	6.5	2.54	8-SMD	425-1540-5-ND	2.30	1.84	1.52	PC923XI
8	30	.2	.6	5000	9.66	6.5	2.54	8-Dip	425-1546-5-ND	1.33	1.06	.88	PC957L0NSZ
	30	.2	.6	5000	9.66	6.5	2.54	8-Dip	425-1547-5-ND*	1.38	1.10	.91	PC957L0YSZ
9	7	.050	.050	2500	9.22	6.5	2.54	8-Dip	425-1548-5-ND	4.50	3.70	3.00	PC9D10
10	15	.3	.3	2500	9.22	6.5	2.54	8-Dip	425-1549-5-ND	3.24	2.67	2.16	PC9D17
11	15	1	2	5000	7.12	6.5	2.54	6-SMD	425-1529-5-ND	1.17	.98	.78	PC900V0NIZX
	15	1	2	5000	7.12	6.5	2.54	6-Dip	425-1530-5-ND#	.87	.73	.58	PC900V0NSZX
	15	1	2	5000	7.12	6.5	2.54	6-Dip	425-1531-5-ND*	1.17	.98	.78	PC900V0YSZX
	15	1	2	5000	7.12	6.5	2.54	6-Dip	425-1532-5-ND†	1.20	1.00	.80	PC901V0NSZX
12	30	1	1	4000	9.22	6.5	1.27	14-SMD	425-1543-5-ND	2.50	2.06	1.67	PC928
13	30	.3	.3	4000	9.22	6.5	1.27	14-SMD	425-1544-5-ND	2.93	2.41	1.95	PC929

Fig. 12

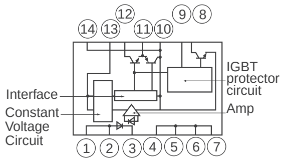


Fig. 13

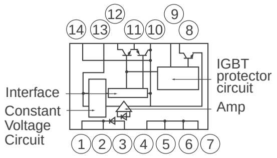


Fig.	Vcc (V) Max.	Prop Delay (us) Typ.		Isolation Voltage (Vrms)	Dimensions- mm			Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Sharp Part No.
		H-L	L-H		Length	Width	Pitch			1	10	100		Reel Size	Pricing	
Cut Tape / Tape & Reel																
1	15	1 2	2 1	3750	3.6	4.4	1.27	6-SMD	425-1520-1-ND 425-1521-1-ND	1.70 1.70	1.36 1.36	1.02 1.02	425-1520-2-ND 425-1521-2-ND	3,000 3,000	867.00/M 867.00/M	PC400 PC401
2	7	.048	.05	3750	3.6	4.4	1.27	6-SMD	425-1522-1-ND 425-1523-1-ND*	1.50 1.90	1.20 1.52	.90 1.14	425-1522-2-ND 425-1523-2-ND*	3,000 3,000	765.00/M 969.00/M	PC410L0NIP PC410L0YIP
3	30	.2	.6	3750	3.6	4.4	1.27	6-SMD	425-1527-1-ND 425-1528-1-ND*	1.38 1.75	1.10 1.40	.83 1.05	425-1527-2-ND* 425-1528-2-ND*	3,000 3,000	701.25/M 892.50/M	PC457L0NIP PC457L0YIP

* Din/VDE 0884 # Output, IccH (typ.): 1.0 † Output, IccH (typ.): 2.7

Photocoupler - Thyristor Output

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Price Each			Sharp Part No.
	Voltage Typ.	Current Min. (mA)	Current Max. (mA)	Voltage Vrms Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)		Length	Width	Pitch			1	10	100	
Tube																
1	1.2	10	50	280	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1322-5-ND#	.81	.68	.54	PC2SD11NTZA
		5	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1363-5-ND	.93	.78	.62	PC3SD11NTZC
		5	50	420	100	3.5	5000	7.12	6.5	2.54	6-SMD	425-1364-5-ND	.99	.83	.66	PC3SD11NXZC
		7	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1362-5-ND	.93	.78	.62	PC3SD11NTZB
		7	50	420	100	3.5	5000	7.12	6.5	2.54	6-SMD	425-1365-5-ND	.96	.80	.64	PC3SD11NXZB
		10	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1366-5-ND	.87	.73	.58	PC3SD12NTZA
		10	50	420	100	3.5	5000	7.12	6.5	2.54	6-SMD	425-1367-5-ND	.90	.75	.60	PC3SD12NXZA
		10	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1772-5-ND†	1.40	1.12	.93	S21MD3YY
		15	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1270-5-ND†	1.58	1.26	1.04	S21MD3VY
2	1.2	3	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1370-5-ND*	1.08	.90	.72	PC3SD21NTZD
		3	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1373-5-ND*†	1.11	.93	.74	PC3SD21YTZD
		3	50	420	100	3.5	5000	7.12	6.5	2.54	6-SMD	425-1375-5-ND*†	1.14	.95	.76	PC3SD21YXZD
		5	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1369-5-ND*	.96	.80	.64	PC3SD21NTZC
		5	50	420	100	3.5	5000	7.12	6.5	2.54	6-SMD	425-1371-5-ND*	.99	.83	.66	PC3SD21NXZC
		5	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1372-5-ND*†	.99	.83	.66	PC3SD21YTZC
		5	50	420	100	3.5	5000	7.12	6.5	2.54	6-SMD	425-1374-5-ND*†	1.02	.85	.68	PC3SD21YXZC
		5	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1300-5-ND†	.96	.80	.64	S2S3LY
		5	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1306-5-ND*†	1.05	.88	.70	S2S4LY
		7	50	420	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1368-5-ND*	.93	.78	.62	PC3SD21NTZB
		7	50	420	100	3.5	5000	9.22	6.5	2.54	6-Dip	425-1271-5-ND◊	1.58	1.26	1.04	S21ME3
		7	50	420	100	3.5	5000	9.22	6.5	2.54	6-Dip	425-1274-5-ND#†	1.68	1.34	1.11	S21ME3Y
		7	50	420	100	3.5	5000	9.22	6.5	2.54	6-Dip	425-1275-5-ND*	2.03	1.62	1.34	S21ME4
		7	50	420	100	3.5	5000	9.22	6.5	2.54	6-Dip	425-1276-5-ND*#	1.85	1.48	1.23	S21ME4F
		7	50	420	100	3.5	5000	9.22	6.5	2.54	6-Dip	425-1277-5-ND*†	1.93	1.54	1.28	S21ME4Y
		7	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1301-5-ND†	.93	.78	.62	S2S3RY
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1282-5-ND*	1.44	1.20	.96	S21ME6
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1283-5-ND*#	1.47	1.23	.98	S21ME6F
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1284-5-ND*#†	1.30	1.04	.86	S21ME6FY
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-SMD	425-1285-5-ND*†	1.43	1.14	.95	S21ME6IY
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1286-5-ND*†	1.28	1.02	.85	S21ME6Y
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1292-5-ND*	1.11	.93	.74	S21MT2
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1297-5-ND	.84	.70	.56	S2S3
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1302-5-ND†	.78	.65	.52	S2S3Y
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1303-5-ND*	1.05	.88	.70	S2S4
		3	50	560	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1405-5-ND*	1.41	1.18	.94	PC4SD21NTZD
		3.0	15	560	100	3.5	5000	9.22	6.5	2.54	6-Dip	425-1287-5-ND*	2.33	1.86	1.54	S21ME8
		3.0	15	560	100	3.5	5000	9.22	6.5	2.54	6-Dip	425-1288-5-ND*#†	2.38	1.90	1.57	S21ME8FY
		3.0	15	560	100	3.5	5000	9.22	6.5	2.54	6-Dip	425-1289-5-ND*†	2.48	1.98	1.64	S21ME8Y
		5	50	560	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1403-5-ND	1.26	1.05	.84	PC4SD11NTZC
		5	50	560	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1404-5-ND*	1.32	1.10	.88	PC4SD21NTZC
		7	50	560	100	3.5	5000	7.12	6.5	2.54	6-Dip	425-1402-5-ND	1.17	.98	.78	PC4SD11NTZB
3	1.2	10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1376-5-ND	1.40	1.12	.93	PC3SG11YIZ
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1377-5-ND*	1.53	1.22	1.01	PC3SG21YIZ
4	1.2	10	50	280	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1230-5-ND	1.44	1.20	.96	S11ME5
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1278-5-ND	1.23	1.03	.82	S21ME5
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1279-5-ND#	1.44	1.20	.96	S21ME5F
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1280-5-ND†#	1.41	1.18	.94	S21ME5FY
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1281-5-ND†	1.35	1.13	.90	S21ME5Y
		10	50	420	100	3.5	5000	6.5	4.58	2.54	4-Dip	425-1291-5-ND	.93	.78	.62	S21MT1
5	1.2	15	50	280	200	1.0	5000	7.12	6.5	2.54	6-Dip	425-1774-5-ND	1.41	1.18	.94	S12MD1V
		10	50	420	200	1.0	5000	7.12	6.5	2.54	6-Dip	425-1775-5-ND	1.40	1.12	.93	S22MD1V
		10	50	420	200	1.0	5000	7.12	6.5	2.54	6-SMD	425-1293-5-ND	1.45	1.16	.96	S22MD1VI
6	1.2	10	50	280	200	1.0	4000	9.22	6.5	2.54	6-Dip	425-1239-5-ND†#	1.70	1.36	1.13	S12ME1FY
		15	50	280	200	1.0	5000	9.22	6.5	2.54	8-Dip	425-1238-5-ND	2.41	1.98	1.61	S12MD3
		10	50	420	200	1.0	2500	9.22	6.5	2.54	8-Dip	425-1296-5-ND	2.43	2.00	1.62	S22MD3
7	1.2	8	50	420	200	1.0	5000	9.22	6.5	2.54	8-Dip	425-1295-5-ND	4.57	3.76	3.05	S22MD2
Cut Tape																
1	1.2	10	50	280	100	3.5	5000	7.12	6.5	2.54	6-SMD	425-1229-1-ND	1.44	—	.96	S11MD5P
2	1.2	7	50	420	100	3.5	5000	9.22	6.5	2.54	6-SMD	425-1272-1-ND#	1.85	1.48	1.11	S21ME3FP
		7	50	420	100	3.5	5000	9.22	6.5	2.54	6-SMD	425-1273-1-ND	1.85	1.48	1.11	S21ME3P
		5	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1299-1-ND	.87	—	.58	S2S3LB
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1305-1-ND*†	1.05	—	.70	S2S4BY
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1307-1-ND	.66	.55	.44	S2S5A
4	1.2	10	50	420	100	3.5	5000	6.5	4.58	2.54	4-SMD	425-1381-1-ND†	1.44	1.20	.96	S21ME5PY

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Tape & Reel		Sharp Part No.
	Voltage Typ.	Current Min. (mA)	Current Max. (mA)	Voltage Vrms Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)		Length	Width	Pitch			Reel Size	Pricing	
Tape & Reel															
1	1.2	10	50	280	100	3.5	5000	7.12	6.5	2.54	6-SMD	425-1229-2-ND	1,000	624.00	S11MD5P
2	1.2	7	50	420	100	3.5	5000	9.22	6.5	2.54	6-SMD	425-1272-2-ND#	1,000	943.50	S21ME3FP
		7	50	420	100	3.5	5000	9.22	6.5	2.54	6-SMD	425-1273-2-ND	1,000	943.50	S21ME3P
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1297-2-ND	750	273.00	S2S3B
		5	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1299-2-ND	3,000	377.00/M	S2S3LB
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1303-2-ND*	750	341.25	S2S4B
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1305-2-ND*†	3,000	455.00/M	S2S4BY
		10	50	420	50	3.5	3750	4.4	3.6	2.54	4-SMD	425-1307-2-ND	3,000	308.00/M	S2S5A
4	1.2	10	50	420	100	3.5	5000	6.5	4.58	2.54	4-SMD	425-1381-2-ND†	2,000	624.00/M	S21ME5PY
5	1.2	10	50	420	200	1.0	5000	7.12	6.5	2.54	6-SMD	425-1293-2-ND	1,000	701.25	S22MD1P

* Built-in zero cross circuit   # Wide formate   † Din/VDE 0884   ◊ VDE 68328

Fig. 1

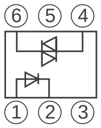
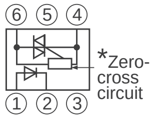
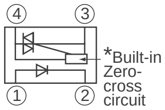


Fig. 2



*PC3SD21 series
PC4SD21 series
S21ME8 series
S21ME4 series
S21ME6 series
S21MT2 series
S2S4 series

Fig. 3



*The Zero-cross circuit is PC3SG21YIZ

Fig. 4

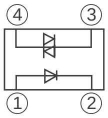


Fig. 5

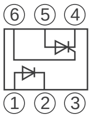


Fig. 6

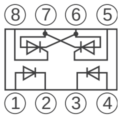
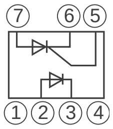


Fig. 7



SHARP MICROELECTRONICS OF THE AMERICAS

Photointerrupter

Fig. 1

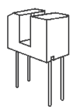


Fig. 2

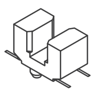


Fig. 3

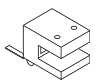


Fig. 4

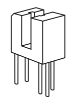


Fig. 5

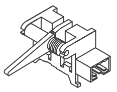


Fig. 6

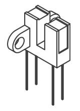


Fig. 7

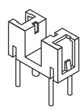


Fig. 8

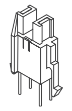


Fig. 9

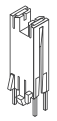


Fig. 10

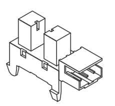


Fig.	Detector		Rise/Fall (µs) Typ.	Sensing Distance (mm)	Terminal Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
	Vceo (V) Max.	IC (mA) Max.					1	10	100	
1	35	20	3/4	3.0	PCB	425-1050-5-ND	.90	.75	.60	GP1S52V
			3/4	4.2	PCB	425-1058-5-ND	1.14	.95	.76	GP1S59
			3/4	5.0	PCB	425-1051-5-ND	.87	.73	.58	GP1S53V
			35/35	1.6	PCB	425-1062-5-ND	1.23	1.03	.82	GP1S95
			38/48	2.0	PCB	425-1052-5-ND	1.47	1.23	.98	GP1S560
	35	20	38/48	2.0	PCB	425-1056-5-ND	.99	.83	.66	GP1S56T
			50/50	1.0	PCB	425-1041-5-ND	.56	.39	.28	GP1S096HCZ
			50/50	1.2	PCB	425-1044-5-ND	1.02	.85	.68	GP1S34
			50/50	2.0	PCB	425-1039-5-ND*	.56	.39	.28	GP1S093HCZ
			50/50	2.0	PCB	425-1042-5-ND	.56	.39	.28	GP1S097HCZ
	35	20	50/50	3.0	PCB	425-1040-5-ND	.56	.39	.28	GP1S094HCZ
		40	80/70	5.0	PCB	425-1035-5-ND	1.02	.85	.68	GP1L53V
		40	130/100	10	PCB	425-1036-5-ND	1.75	1.40	1.16	GP1L57
2	35	20	50/50	2.0	SMD	425-1038-1-ND‡	.54	.45	.36	GP1S092HCPI
						425-1038-2-ND#	504.00/2,000			
3	35	20	35/35	1.6	PCB	425-1043-5-ND	1.29	1.08	.86	GP1S25
		40	80/70	3.0	PCB	425-1034-5-ND	1.14	.95	.76	GP1L52V
4	35	20	50/50	1.5	PCB	425-1046-5-ND	1.33	1.06	.88	GP1S39
5	35	20	—	—	Conn.	425-1047-ND†$	2.48	1.98	1.64	GP1S44S1
6	35	20	3/4	3.0	PCB	425-1048-5-ND	1.05	.88	.70	GP1S51V
7	35	20	3/4	3.0	PCB	425-1053-5-ND	.99	.83	.66	GP1S561
				5.0	PCB	425-1057-5-ND	.90	.75	.60	GP1S58V
8	35	20	3/4	3.0	PCB	425-1054-5-ND	1.20	1.00	.80	GP1S562
9	35	20	3/4	3.0	PCB	425-1055-5-ND	.81	.68	.54	GP1S563
10	35	20	3/4	5.0	Conn.	425-1059-5-ND	1.29	1.08	.86	GP1S73P

* Low profile † Tray (not a tube) ‡ Cut Tape # Tape & Reel $ With actuator

Reflective Photointerrupter

Fig. 1

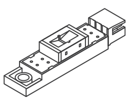


Fig. 2

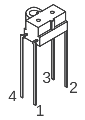


Fig. 3

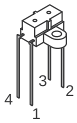


Fig. 4

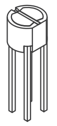


Fig. 5

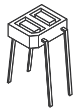


Fig. 6

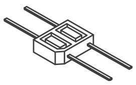


Fig. 7

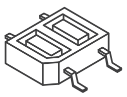


Fig. 8

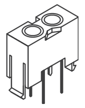


Fig. 9

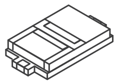


Fig.	Detector		Rise/Fall (µs) Typ.	Sensing Distance (mm)	Terminal Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
	Vceo (V) Max.	IC (mA) Max.					1	10	100	
1	7 VCC	30	1000	5-15	PCB	425-1086-5-ND	4.66	3.83	3.11	GP2A200LCS
				3-7	PCB	425-1087-5-ND	4.46	3.67	2.97	GP2A25
2	35	20	80/70	13	PCB	425-1088-5-ND*	1.85	1.48	1.23	GP2L20L
3	35	20	80/70	13	PCB	425-1089-5-ND*	1.90	1.52	1.26	GP2L20R
4	35	50	80/70	.6	PCB	425-1090-5-ND*	1.35	1.08	.90	GP2L22
5	35	20	20/20	.6 to .8	PCB	425-1093-5-ND	.84	.70	.56	GP2S24
		20	50/50	1.5 to 6.5	PCB	425-1096-5-ND	1.60	1.28	1.06	GP2S40
		50	80/70	.6 to .8	PCB	425-1091-5-ND*	.96	.80	.64	GP2L24
6	35	50	80/70	.6 to .8	SMD	425-1092-5-ND*	1.11	.93	.74	GP2L26
7	35	20	20/20	.6 to .8	SMD	425-1094-1-ND ‡	1.11	.93	.74	GP2S27T
						425-1094-2-ND#	481.00/1,000			
8	35	20	20/30	6	PCB	425-1095-5-ND	1.28	1.02	.85	GP2S28
9	35	20	20/20	1	SMD	425-1097-1-ND ‡	.51	.43	.34	GP2S60
						425-1097-2-ND#	476.00/2,000			

* Darlington ‡ Cut Tape # Tape & Reel

OPIC™ Photointerrupter

Fig. 1

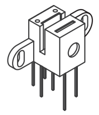


Fig. 2

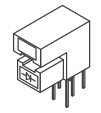


Fig. 3

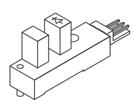
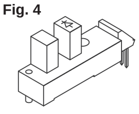


Fig. 4



See below for JST Mating Connector

Fig. 5

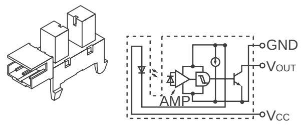


Fig. 6

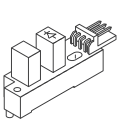


Fig. 7

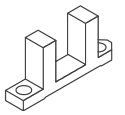


Fig. 8

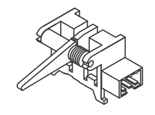


Fig. 9

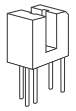


Fig. 10

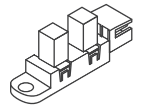


Fig. 11

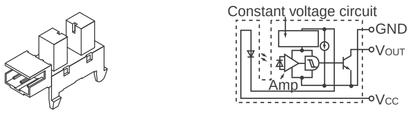


Fig.	Detector		Sensing Distance (mm)	Terminal Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
	VCC (V) Typ.	Icc (mA) Max.				1	10	100	
1	5	20	3.5	PCB	425-1063-5-ND	7.16	5.89	4.77	GP1A30R
			3.4	PCB	425-1064-ND†	6.37	5.24	4.25	GP1A35RV
			3.0	PCB	425-1074-5-ND	1.41	1.18	.94	GP1A51HR
2	5	20	2.0	PCB	425-1065-5-ND‡	3.83	3.15	2.55	GP1A70R
					425-1066-5-ND‡	4.59	3.78	3.06	GP1A71R
3	5	30	5.0	Connector	425-1067-5-ND	2.25	1.80	1.49	GP1A05
4	5	30	5.0	Connector	425-1071-5-ND	3.71	3.06	2.48	GP1A23LC
5	5	16.5	5.0	Connector	425-1771-5-ND$	1.17	.98	.78	GP1A073LCS
6	24	30	5.0	Connector	425-1069-5-ND	3.26	2.69	2.18	GP1A10
7	5	50	3.0	PCB	425-1073-5-ND	1.28	1.02	.85	GP1A50HR
7	5	50	10.0	PCB	425-1070-5-ND	2.88	2.37	1.92	GP1A17
8	5	20	—	Connector	425-1072-5-ND*	2.48	2.04	1.65	GP1A44E1
9	5	—	10.0	PCB	425-1078-5-ND	1.95	1.56	1.29	GP1A57HR
		2.0	1.2	PCB	425-1084-5-ND◊	1.02	.85	.68	GP1A91LC
		2.0	1.2	PCB	425-1085-5-ND	1.02	.85	.68	GP1A91LR
		20	5.0	PCB	425-1079-5-ND	1.55	1.24	1.03	GP1A58HR
		50	3.0	PCB	425-1075-5-ND	1.50	1.25	1.00	GP1A52HR
		50	3.0	PCB	425-1076-5-ND#	1.50	1.25	1.00	GP1A52LR
11	5	16.5	5.0	Connector	425-1081-5-ND	1.35	1.08	.90	GP1A73A
10	5	20	5.0	Connector	425-1083-5-ND	1.41	1.18	.94	GP1A75E

† Tray (not tube) ‡ GP1A70R: 1.14mm disk slit pitch and GP1A71R: 0.7mm disk slit pitch $ Inverted
* With actuator ◊Internal 15K resistor # Inverted type of the HR

JST

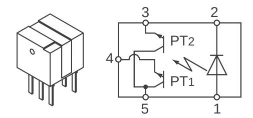
Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	T & R Pricing	JST Part No.
3-Pos., 2.5mm, Disconnectable Crimp Style NH Connector	455-1120-ND	.63	5.24	20.97	—	H3P-SHF-AA
22-28 AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1121-1-ND*	—	5.48	24.19	130.00/5,000	SHF-001T-0.8BS
Crimp Tool w/Die for 22-28 AWG Contacts	455-1122-ND	367.01 Each			—	WC-122

* For Tape and Reel part number change “-1-ND” to “-2-ND”

SHARP MICROELECTRONICS OF THE AMERICAS

Tilt Sensor



Features: • Subminiature • 2-phase output type • Able to detect the tilt direction of both side (±90°) by the position of rolling ball • High reliability due to non-contact structure
Applications: • Digital cameras • Camcorders

Detector		Rise/Fall (µs) Typ.	Terminal Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
Vceo (V) Max.	Ic (mA) Max.				1	10	100	
35	20	50/50	PCB	425-1037-5-ND*	2.45	1.96	1.62	GP1S036HEZ
				425-1045-5-ND	1.95	1.56	1.29	GP1S36

* 4-way tilt

SHARP
MICROELECTRONICS OF THE AMERICAS

IR Emitters, Photo Transistors and Diodes

Fig. 1

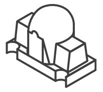


Fig. 2

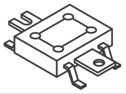


Fig. 3

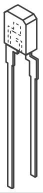


Fig. 4

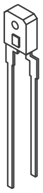


Fig. 5

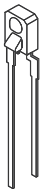


Fig. 6

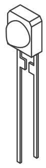


Fig. 7

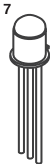


Fig. 8

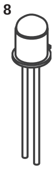


Fig. 9

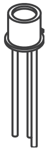
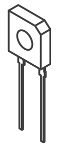


Fig. 10



IR Emitters

Fig.	Forward Volt. (V) Typ.	Forward Current (mA) Max.	Optical Power Output (mW) Max.	Beam Angle (2x Theta)	Peak Wave-length (nm) Typ.	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	1.2	50	3.0	20	940	425-1022-1-ND‡ 425-1022-2-ND#	.36 336.00/2,000	.30	.24	GL100MN0MP
	1.2	50	6.0	20	940	425-1023-1-ND‡ 425-1023-2-ND#	.54 504.00/2,000	.45	.36	GL100MN1MP
3	1.2	50	2.0	180	950	425-1024-5-ND†	.56	.39	.28	GL4100
4	1.2	50	3.0	60	950	425-1026-5-ND*	.48	.33	.24	GL4800
5	1.2	50	3.0	26	950	425-1025-5-ND*	.48	.33	.24	GL480

‡ Cut Tape # Tape & Reel † Pale red transparent resin * Pink transparent resin

Photo Transistors

Fig.	Vceo Max. (V)	Ic Max. (mA)	Peak Sensitivity Wavelength (nm) Typ.	Rise/Fall Typ. (µs)	Beam Angle (2x Theta)	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	35	20	900	5.0/6.0	30	425-1005-1-ND‡ 425-1005-2-ND#	.36 336.00/2,000	.30	.24	PT100MC0MP
	35	20	910	5.0/6.0	30	425-1006-1-ND‡◊ 425-1006-2-ND#	.36 336.00/2,000	.30	.24	PT100MF0MP
	35	20	910	5.0/6.0	30	425-1007-1-ND‡◊ 425-1007-2-ND#	.36 252.00/1,500	.30	.24	PT100MF0MP1
4	35	20	800	3.0/3.5	70	425-1009-5-ND	.48	.33	.24	PT4800
		20	860	3.0/3.5	70	425-1010-5-ND◊	.56	.39	.28	PT4800F
		50	800	80/70	70	425-1014-5-ND*$	.60	.42	.30	PT4810
		50	860	80/70	70	425-1015-5-ND*◊	.60	.42	.30	PT4810F
5	35	20	800	3.0/3.5	26	425-1008-5-ND	.48	.33	.24	PT480
		20	860	3.0/3.5	26	425-1012-5-ND◊	.52	.36	.26	PT480F
		50	800	80/70	26	425-1013-5-ND$	.52	.36	.26	PT481
		50	860	80/70	26	425-1016-5-ND◊	.60	.42	.30	PT481F
7	35	20	800	2/3	12	425-1019-5-ND	2.43	2.00	1.62	PT510
		100	800	350/300	12	425-1020-5-ND	8.57	7.05	5.72	PT550
8	45	10	800	10/10	12	425-1017-5-ND	2.38	1.90	1.57	PT501
		80	800	10/10	12	425-1018-5-ND	2.13	1.70	1.41	PT501A
9	35	100	800	350/300	100	425-1021-5-ND◊	7.43	6.11	4.95	PT550F

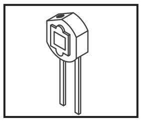
‡ Cut Tape # Tape & Reel $ Transparent blue resin ◊ Visible Light cut-off resin (black) * Darlington

Photo Diodes

Fig.	Vr Max. (V)	Short Circuit Current Is (µA) Typ.	Dark Current Id Max. (nA)	Peak Sensitivity Wavelength (nm) Typ.	Rise/ Fall Typ. (ns)	Beam Angle (2x Theta)	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	20	.9	10	820	10	40	425-1027-1-ND‡ 425-1027-2-ND#	.36 336.00/2,000	.30	.24	PD100MC0MP
	20	.6	10	850	10	40	425-1028-1-ND‡◊ 425-1028-2-ND#◊	.36 336.00/2,000	.30	.24	PD100MF0MP
2	30	9.2	2.0	940	5	—	425-1030-5-ND	1.11	.93	.74	PD3122F
3	—	.45	1.0	820	—	—	425-1029-5-ND	1.14	.95	.76	PD101SC0SS
5	20	1.7	10	950	100	40	425-1032-5-ND	.96	.80	.64	PD480PI
6	32	5.4	10	960	200	90	425-1031-5-ND	.92	.64	.46	PD413PI
10	32	5	30	960	—	115	425-1033-5-ND◊	1.05	.88	.70	PD481PI

‡ Cut Tape # Tape & Reel ◊ Visible Light cut-off resin (black)

Blue Sensitive Photodiodes



Features:
- Spectral sensitivity characteristics akin to that of human eye
- Compact flat package
- Low dark current
- Infrared light cut-off type

Applications:
- AE (automatic exposure) system and ES (electronic shutter) system for cameras
- Stroboscopes
- Precise optical instruments

Short Cir. Current Is Typ. (µA)	Dark Current Id Typ. (A)	Peak Sensitivity Wavelength Typ. (nm)	Reverse Voltage Vr (V) Max.	Active Area (mm sq.)	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
0.16	$3x10^{-12}$	560	10	1.55	425-1001-5-ND	1.95	1.56	1.29	BS120
0.55	$3x10^{-12}$	560	10	5.34	425-1004-5-ND	2.27	1.87	1.52	BS520

OPIC™ Light Detector

Fig. 1

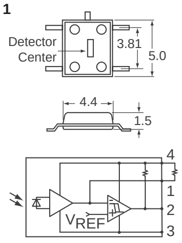


Fig. 2

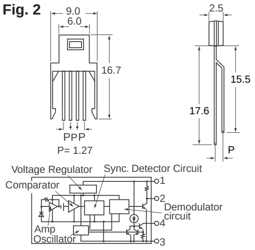


Fig. 3

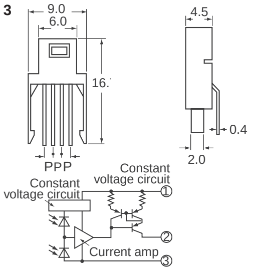


Fig. 4

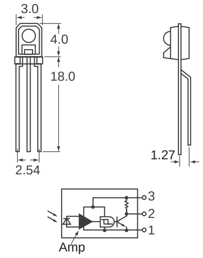


Fig.	Vcc (V)	Output Current Max. (mA)	Rise/ Fall Typ. (µs)	Beam Angle (2x Theta)	Peak Wave-length (nm) Typ.	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	5	—	.06/.02	—	660	425-1177-5-ND	2.54	2.10	1.70	IS456
2	4.5 to 16	50	400/400	110	940	425-1178-5-ND*	2.72	2.24	1.82	IS471F
3	5	-10	12/30	70	550	425-1179-5-ND 425-1180-5-ND†	2.63 2.95	2.17 2.43	1.76 1.97	IS474 IS474SI
4	1.4 to 7.0	2	0.1/.06	30	900	425-1181-5-ND	.92	.64	.46	IS489

† Straight lead version * Visible light cut-off resin (black)

Compact Dust Sensor

Features: • Compact, thin type (58 x 38 x 20.7mm) • Low dissipation current (Icc: MAX. 20mA) • Single-shot detection of house dust **Applications:** • Air conditioners • Air cleaner

Vcc (V)	Digi-Key Part No.	Price Each 1	25	50	Sharp Part No.
12	425-1169-ND	17.20	13.76	12.04	GP2Y1001AU

JST

Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel Pricing	JST Part No.
6-Pos., 1.5mm, Disconnectable Crimp Style ZH Connector	455-1129-ND	.76	6.33	25.31	—	ZHR-6
26-28 AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1130-1-ND*	—	2.19	9.66	130.00/13,000	SZH-002T-P0.5
Crimp Tool with Die for 26-28 AWG Contacts	455-1131-ND	367.01 Each			—	WC-491

* For Tape and Reel part number, change "-1-ND" to "-2-ND"

TOSHIBA

NEW! Fiber Optic Receiving and Transmitting Modules

Fig. 1

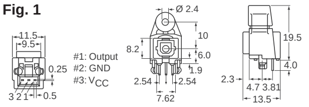
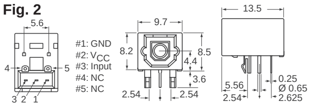


Fig. 2



Transmitters

Fig.	Supply Voltage (Vcc) min./max.	Data Rate Mb/s	Current Consumption	Input Voltage High/Low	Digi-Key Part No.	Price Each 1	10	100	Toshiba Part No.
1	2.7/3.6	15	15mA	2.0/0.9	TOTX141-ND*	4.59	3.68	2.86	TOTX141
2	2.7/3.6	15	15mA	2.0/0.9	TOTX141P-ND	4.75	3.80	2.96	TOTX141P
1	4.75/5.25	12.8	15mA	2.0/0.8	TOTX179-ND*	3.67	2.94	2.29	TOTX179
2	4.75/5.25	12.8	15mA	2.0/0.8	TOTX179P-ND	4.12	3.30	2.57	TOTX179P

Receivers

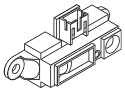
Fig.	Supply Voltage (Vcc) min./max.	Data Rate Mb/s	Current Consumption	Input Voltage High/Low	Digi-Key Part No.	Price Each 1	10	100	Toshiba Part No.
1	2.7/3.6 4.75/5.25	15 12.8	10mA 22mA	2.1/0.4 3.6/.04	TORX141-ND TORX179-ND	5.11 4.59	4.09 3.68	3.18 2.86	TORX141 TORX179

*Pin out: 1) Gnd, 2) Vcc, 3) Input

SHARP MICROELECTRONICS OF THE AMERICAS

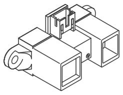
Distance Measuring Sensor

Fig. 1



See below for JST Mating Connector

Fig. 2



See below for JST Mating Connector

Fig.	Vcc (V)	Distance Measuring Range (cm) Typ.	Diff. of Output Voltage (V) Typ.	Output Current ICC (mA) Typ.	Output Type	Digi-Key Part No.	Tray Price Each 1	25	50	Sharp Part No.
1	5	4 to 30	2.25	33	Analog	425-1162-ND	10.58	8.46	7.41	GP2D120
		10 to 80	2.0	33		425-1161-ND	10.58	8.46	7.41	GP2D12
		10 to 80	1.9	30		425-1166-ND	10.95	8.76	7.67	GP2Y0A21YK
		15	—	33	Digital	425-1164-5-ND†	13.23	10.58	9.26	GP2D150A
		24	—	33		425-1163-ND	10.58	8.46	7.41	GP2D15
		24	—	30		425-1168-ND	10.95	8.76	7.67	GP2Y0D21YK
2	5	20 to 150	2.05	33	Analog	425-1165-ND	15.63	12.50	10.94	GP2Y0A02YK
		80	—	33	Digital	425-1167-ND	15.63	12.50	10.94	GP2Y0D02YK

† Tube (not a tray)

JST

Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	T & R Pricing	JST Part No.
3-Pos., 2.0mm, Disconnectable Crimp Style PH Connector	455-1126-ND	.42	3.53	14.11	—	PHR-3
24-30 AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1127-1-ND*	—	3.43	15.11	128.00/8,000	SPH-002T-P0.5S
Crimp Tool w/Die for 24-30 AWG Contacts	455-1128-ND	367.01 Each			—	WC-240

* For Tape and Reel part number change “-1-ND” to “-2-ND”

SHARP MICROELECTRONICS OF THE AMERICAS

Fiber Optics

Fig. 1

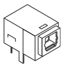


Fig. 2

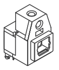


Fig. 3

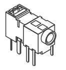


Fig. 4

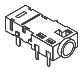
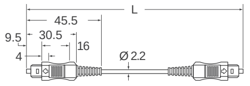


Fig. 5



Transmitters

Fig.	Vcc Typ. (V)	ViH Min. (V)	ViL Max. (V)	Peak Wave-length (nm) Typ.	Operating Transfer Rate (Mbps) Max.	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	5	2	0.8	660	8	425-1098-5-ND	4.32	3.56	2.88	GP1F31T
						425-1103-5-ND*	2.13	1.70	1.41	GP1FH500TZ
2	2.7 to 3.6	—	—	—	8	425-1099-5-ND	1.90	1.52	1.26	GP1FA350TZ
	5	2	0.8	660	8	425-1100-5-ND#	1.58	1.26	1.04	GP1FA511TZ
	5	2.1	0.8	660	13.2	425-1101-5-ND	1.75	1.40	1.16	GP1FA551TZ
3	5	2	0.8	660	8	425-1102-ND†	2.52	2.08	1.68	GP1FE500TK

* Low profile † Tray (not a tube) # With shutter

Receivers

Fig.	Vcc Typ. (V)	VoH Min. (V)	VoL Max. (V)	Peak Wave-length (nm) Typ.	Operating Transfer Rate (Mbps) Max.	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	5	2.7	0.4	700	8	425-1104-5-ND	4.28	3.52	2.85	GP1F31R
						425-1111-5-ND*	2.72	2.24	1.82	GP1FH500RZ
2	2.7 to 3.6	—	—	—	8	425-1107-5-ND	2.48	1.98	1.64	GP1FA350RZ
	5	2.7	0.4	700	8	425-1105-5-ND	2.68	2.21	1.79	GP1F37R
	5	2.7	0.4	700	8	425-1108-5-ND#	2.15	1.72	1.42	GP1FA511RZ
	5	2.7	0.4	700	13.2	425-1109-5-ND	2.38	1.90	1.57	GP1FA551RZ
3	5	2.7	0.4	700	8	425-1110-ND†	3.24	2.67	2.16	GP1FE500RK

* Low profile † Tray (not a tube) # With shutter

Mini-Jack for Digital Audio (electrical and optical transmission)

Fig.	Vcc (V)	Peak Wavelength (nm) Typ.	Operating Transfer Rate (Mbps) Max.	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
Transmitter								
4	2.3 to 2.8	660	8	425-1112-5-ND	2.72	2.24	1.82	GP1FD210TP
	2.7 to 3.6			425-1113-5-ND	2.72	2.24	1.82	GP1FD310TP
Receiver								
4	2.3 to 2.8	700	8	425-1114-5-ND	3.29	2.71	2.19	GP1FD210RP
	2.7 to 3.6			425-1115-ND†	4.46	3.67	2.97	GP1FD300RK

† Tray (not a tube)

Cable

Fig.	L (meters)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
5	0.6	425-1802-ND	5.41	4.45	3.38	GP1C331A
	2.0	425-1803-ND	7.87	6.48	4.92	GP1C332
	5.0	425-1804-ND	12.68	10.43	7.92	GP1C335

SHARP MICROELECTRONICS OF THE AMERICAS

Remote Control Receivers

Supply Voltage 2.7 to 5.5V

Fig. 1

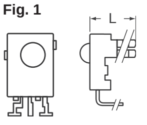


Fig. 2

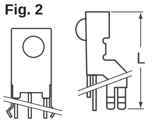


Fig. 3

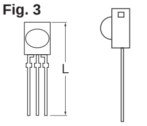


Fig. 4

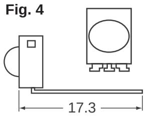
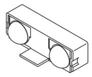


Fig.	Detecting Window	B.P.F. fo (kHz) Typ.	Current Dissipation Icc (mA) Max.	Length (mm)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
1	Top	36.7	.2	8.8	425-1117-ND	1.33	1.06	.88	GP1UD262XK
		36.7	1.5	8.8	425-1134-ND	1.33	1.06	.88	GP1UM262XK
		36.7	1.5	13.8	425-1141-ND#	1.33	1.06	.88	GP1UM272RK
		36.7	1.5	13.8	425-1142-ND	1.33	1.06	.88	GP1UM272XK
		36.7	.2	14	425-1121-ND	1.33	1.06	.88	GP1UD272XK
		36.7	1.5	17.8	425-1150-ND#	1.33	1.06	.88	GP1UM282RK
		36.7	1.5	17.8	425-1151-ND	1.33	1.06	.88	GP1UM282XK
		36.7	.2	18	425-1126-ND	1.33	1.06	.88	GP1UD282XK
		38	.2	8.8	425-1116-ND	1.33	1.06	.88	GP1UD261XK
		38	1.5	8.8	425-1132-ND#	1.33	1.06	.88	GP1UM261RK
		38	1.5	8.8	425-1133-ND	1.33	1.06	.88	GP1UM261XK
		38	1.5	13.8	425-1139-ND#	1.33	1.06	.88	GP1UM271RK
		38	1.5	13.8	425-1140-ND	1.33	1.06	.88	GP1UM271XK
		38	.2	14	425-1120-ND	1.33	1.06	.88	GP1UD271XK
		38	.2	18	425-1124-ND	1.33	1.06	.88	GP1UD281XK
		40	.2	8.8	425-1119-ND	1.33	1.06	.88	GP1UD26XK
		40	1.5	8.8	425-1137-ND#	1.33	1.06	.88	GP1UM26RK
		40	1.5	8.8	425-1138-ND	1.33	1.06	.88	GP1UM26XK
		40	1.5	13.8	425-1145-ND#	1.33	1.06	.88	GP1UM27RK
		40	1.5	13.8	425-1146-ND	1.33	1.06	.88	GP1UM27XK
		40	.2	14	425-1123-ND	1.33	1.06	.88	GP1UD27XK
		40	1.5	17.8	425-1158-ND#	1.33	1.06	.88	GP1UM28RK
		40	1.5	17.8	425-1159-ND	1.33	1.06	.88	GP1UM28XK
		40	.2	18	425-1130-ND	1.33	1.06	.88	GP1UD28XK
		56.8	.2	8.8	425-1118-ND	1.33	1.06	.88	GP1UD267XK
		56.8	1.5	8.8	425-1135-ND#	1.33	1.06	.88	GP1UM267RK
		56.8	1.5	8.8	425-1136-ND	1.33	1.06	.88	GP1UM267XK
		56.8	1.5	13.8	425-1143-ND#	1.33	1.06	.88	GP1UM277RK
		56.8	1.5	13.8	425-1144-ND	1.33	1.06	.88	GP1UM277XK
		56.8	.2	14	425-1122-ND	1.33	1.06	.88	GP1UD277XK
		56.8	1.5	17.8	425-1154-ND#	1.33	1.06	.88	GP1UM287RK
		56.8	1.5	17.8	425-1155-ND	1.33	1.06	.88	GP1UM287XK
		56.8	.2	18	425-1128-ND	1.33	1.06	.88	GP1UD287XK
2	Side	36.7	1.5	16.1	425-1149-ND#	1.33	1.06	.88	GP1UM282QK
		36.7	1.5	16.1	425-1152-ND	1.33	1.06	.88	GP1UM282YK
		36.7	.2	16.6	425-1127-ND	1.33	1.06	.88	GP1UD282YK
		38	1.5	16.1	425-1147-ND#	1.26	1.05	.84	GP1UM281QK
		38	1.5	16.1	425-1148-ND	1.33	1.06	.88	GP1UM281YK
		38	.2	16.6	425-1125-ND	1.33	1.06	.88	GP1UD281YK
		40	1.5	16.1	425-1157-ND#	1.33	1.06	.88	GP1UM28QK
		40	1.5	16.1	425-1160-ND	1.33	1.06	.88	GP1UM28YK
		40	.2	16.6	425-1131-ND	1.33	1.06	.88	GP1UD28YK
		56.8	1.5	16.1	425-1153-ND#	1.33	1.06	.88	GP1UM287QK
		56.8	1.5	16.1	425-1156-ND	1.33	1.06	.88	GP1UM287YK
		56.8	.2	16.6	425-1129-ND	1.33	1.06	.88	GP1UD287YK
3	Side	36	1.5	28	425-1852-ND# *NEW!*	.81	.68	.54	GP1UV700QS
		36	0.6	28	425-1856-ND# *NEW!*	.81	.68	.54	GP1UW700QS
		36.7	1.5	28	425-1851-ND# *NEW!*	.81	.68	.54	GP1UV702QS
		36.7	0.6	28	425-1855-ND# *NEW!*	.81	.68	.54	GP1UW702QS
		38	4.5	25	425-1175-5-ND†	2.25	1.80	1.49	IS1U621
		38	1.5	28	425-1850-ND# *NEW!*	.81	.68	.54	GP1UV701QS
		38	0.6	28	425-1854-ND# *NEW!*	.81	.68	.54	GP1UW701QS
		40	1.5	28	425-1849-ND# *NEW!*	.81	.68	.54	GP1UV70QS
		40	0.6	28	425-1853-ND# *NEW!*	.81	.68	.54	GP1UW70QS
4	Top	38	4.5	17.3	425-1176-5-ND†*	2.03	1.62	1.34	IS1U621L

† Tube * Bent Leads # With mesh

IrDA Transceiver Module



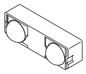
Sharp’s opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Cellular phones • PDA • Personal computers

Data Vcc (V)	Transfer Rate SIR (kbps)	Transfer Rate FIR (Mbps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† 2,000 Pricing	Sharp Part No.
IrDA 115 Kbit/s, 1 Meter								
2.4 to 5.5	2.4 to 115.2	—	425-1170-1-ND	2.98	2.61	2.09	1886.34/M	GP2W0004YP
IrDA 115 Kbit/s, 1 Meter and 4 Mbit/s, 1 Meter								
2.7 to 5.5	9.6 to 115.2	1.152 to 4	425-1171-1-ND	4.52	3.96	3.17	2861.16/M	GP2W1001YP
IrDA 115 Kbit/s, 20cm								
2.0 to 3.6	2.4 to 115.2	1.152 to 4	425-1172-1-ND	2.28	2.00	1.60	1443.24/M	GP2W0110YPS
1.7 to 2.5	2.4 to 115.2	1.152 to 4	425-1173-1-ND	2.16	1.89	1.52	1367.28/M	GP2W0112YP

† For Tape & Reel part number change 1-ND to 2-ND

ZiLOG Totally Logical

IrDA Transceiver Module



The ZILOG ZHX1820 is a low-profile version of ZILOG’s popular ZHX1010 1-meter transceiver. Packaged in the “top-look” configuration, the transceiver is mechanically enhanced for ultra compact, power-conscious portable products, such as portable printers, handheld computers, and personal data assistants (PDAs). Designed to operate using the IrDA-Data mode, the transceiver combines an infrared emitting diode (IRED) emitter, a PIN photodiode detector, a digital AC coupled LED driver, and a receiver/decoder in a single package. **Features:** • 2.4 to 5.5V • 0 to 1 meter minimum link distance; 0 to 1.5 meters typical (-30°C to +85°C) – 0 to 80 cm minimum link distance; 0 to 1.2 meters typical (below 30°C) **Specifications:** • RxD Pulse Width (^{t}PWA): 1.6µS typ.

Data Vcc (V)	Transfer Rate SIR (kbps)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel 2,000 Pricing	Sharp Part No.
2.4 -5.5	115.2	269-3126-1-ND	4.05	3.04	2.08	—	ZHX1820TV115THTR
		269-3126-2-ND	—	—	—	1795.50/M	ZHX1820TV115THTR

LUMEX

Optolinks

Fig. 1

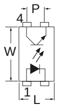
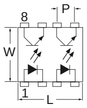


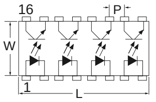
Photo Transistor Output Dip or SMT

Fig. 2



Dual Photo Transistor Output Dip or SMT

Fig. 3



Quad Photo Transistor Output Dip or SMT

Fig. 4

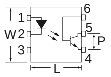


Photo Transistor Output Dip or SMT

Fig. 5

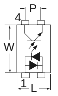
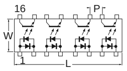


Photo Transistor Output Dip or SMT

Fig. 6



Quad Photo Transistor Output Dip or SMT

Fig. 7

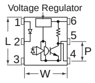


Photo IC Output Dip or SMT

Optoisolators with Photo-Transistor Output

SPECIFICATIONS: • **Isolation Voltage:** 5000 • **VCEO (Max.):** 60V • **Typ. tr/tf:** 5 µs/4 µs

Fig.	Current Transfer Ratio Min-Max.	Length L (mm)	Width W (mm)	Pitch P (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	Tape and Reel Pricing‡ 1,000	Lumex Part No.
1	60-600%	4.60	6.50	2.54	Dip	67-1560-5-ND	.51	.43	—	OCP-PCT114/E
	60-600%	4.60	6.50	2.54	SMT	67-1613-1-ND	.51	.43	282.20	OCP-PCT114/E-TR
2	60-600%	9.68	6.50	2.54	Dip	67-1561-5-ND	1.05	.88	—	OCP-PCT218/E
	60-600%	9.68	6.50	2.54	SMT	67-1614-1-ND	1.05	.88	581.00	OCP-PCT218/E-TR
3	60-600%	19.84	6.50	2.54	Dip	67-1562-5-ND	1.83	1.53	—	OCP-PCT4116/E
	60-600%	19.84	6.50	2.54	SMT	67-1618-5-ND	1.83	1.53	—	OCP-PCT4116/E-TR
4	60-600%	7.30	6.50	2.54	Dip	67-1563-5-ND	.39	.33	—	OCP-PCTB116/E
	60-600%	7.30	6.50	2.54	SMT	67-1615-1-ND	.39	.33	215.80	OCP-PCTB116/E-TR
5	60-600%	4.60	6.50	2.54	Dip	67-1564-5-ND	.63	.53	—	OCP-PCT124/A
	60-600%	4.60	6.50	2.54	SMT	67-1616-1-ND	.63	.53	348.60	OCP-PCT124/A-TR
6	60-600%	19.84	6.50	2.54	Dip	67-1565-5-ND	2.89	2.41	—	OCP-PCT4216/A
	60-600%	19.84	6.50	2.54	SMT	67-1619-5-ND	2.89	2.41	—	OCP-PCT4216/A-TR

Optoisolators with Photo-IC Output

Fig.	Isolation Voltage	Prop Delay t_{PHL}/t_{PLH} (µS)	Length L (mm)	Width W (mm)	Pitch P (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	Tape and Reel Pricing‡ 1,000	Lumex Part No.
7	5000	5/3	7.3	6.5	2.54	Dip	67-1566-5-ND	1.64	1.37	—	OCP-PCP116
	5000	5/3	7.3	6.5	2.54	SMT	67-1617-1-ND	1.64	1.37	904.70	OCP-PCP116-TR

‡ For Tape and Reel part number, change -1-ND to -2-ND

FAIRCHILD SEMICONDUCTOR

Semiconductor Interrupter Modules

Fig.	Circuit	Output Type	Ic (on) (mA) min.	Test Conditions If/Vce	Slot Width (mm)	Lead Spacing (mm)	Digi-Key Part No.	Price Each 1	10	100	500
5	A	Darlington	3.0	5mA @ 5V	3.99	10.16	QCK4-ND	1.21	1.01	.81	.57
3	B	Transistor	1.0	20mA @ 5V	3.18	5.59	QVA11134-ND	1.17	.98	.78	.55
2	B	Transistor	1.0	20mA @ 5V	3.18	5.59	QVB11134-ND	1.12	.94	.75	.53
4	C	Transistor	0.5	20mA @ 5V	3.81	7.62	QVE11233-ND	.99	.83	.66	.47
1	B	Transistor	1.0	20mA @ 5V	3.15	7.24	H21A1-ND	.99	.83	.66	.47
1	B	Transistor	2.0	20mA @ 5V	3.15	7.24	H21A2-ND	1.03	.86	.69	.49
1	B	Transistor	4.0	20mA @ 5V	3.15	7.24	H21A3-ND	1.08	.90	.72	.51
3	B	Transistor	1.0	20mA @ 5V	3.15	7.24	H22A1-ND	.85	.71	.57	.40
3	B	Transistor	2.0	20mA @ 5V	3.15	7.24	H22A2-ND	.90	.75	.60	.42
3	B	Transistor	4.0	20mA @ 5V	3.15	7.24	H22A3-ND	.94	.79	.63	.44
1	A	Darlington	2.5	5mA @ 1.5V	3.15	7.24	H21B1-ND	1.08	.90	.72	.51
3	A	Darlington	2.5	5mA @ 1.5V	3.15	7.24	H22B1-ND	.85	.71	.57	.40

Optologic Interrupter Modules

Fig.	Circuit	Output Type	VCC	Max Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	10	100	500
13	K	T.P. BUFF	4.5-16.0	50	70	H21LTB-ND	1.21	1.01	.81	.57
13	L	T.P. INV	4.5-16.0	50	70	H21LTI-ND	1.21	1.01	.81	.57
13	M	O.C. BUFF	4.5-16.0	50	70	H21LOB-ND	1.21	1.01	.81	.57
13	N	O.C. INV	4.5-16.0	50	70	H21LOI-ND	1.21	1.01	.81	.57
14	K	T.P. BUFF	4.5-16.0	50	70	H22LTB-ND	1.17	.98	.78	.55
14	L	T.P. INV	4.5-16.0	50	70	H22LTI-ND	1.17	.98	.78	.55
14	M	O.C. BUFF	4.5-16.0	50	70	H22LOB-ND	1.17	.98	.78	.55
14	N	O.C. INV	4.5-16.0	50	70	H22LOI-ND	1.17	.98	.78	.55

Semiconductor Infrared Photo Detectors

Fig.	Circuit	BV_{CEO} (V)	Min. Ic @ 5Vce (mA)	Rise/Fall (µ sec)	Reception Angle +/-	Peak Wavelength Sensitivity	Digi-Key Part No.	Price Each 1	10	100	500
6	F	45	6	8/7	—	880	BPW36-ND	1.65	1.32	.99	.89
6	F	45	3	8/7	—	880	BPW37-ND	1.65	1.32	.99	.89
7	F	50	1	5/5	60	880	L14C1-ND	1.72	1.38	1.03	.93
7	F	50	0.5	5/5	60	880	L14C2-ND	1.65	1.32	.99	.89
6	F	45	6	8/7	—	880	L14G1-ND	1.65	1.32	.99	.89
6	F	45	3	8/7	—	880	L14G2-ND	1.61	1.29	.97	.87
6	F	45	12	8/7	—	880	L14G3-ND	1.68	1.35	1.01	.91
7	F	30	3	10/12	30	880	L14N1-ND	1.68	1.35	1.01	.91
7	F	30	6	14/16	30	880	L14N2-ND	1.87	1.50	1.13	1.01
6	F	30	4	10/12	12	880	L14P1-ND	1.72	1.38	1.03	.93
6	F	30	8	14/16	12	880	L14P2-ND	1.87	1.50	1.13	1.01
6	E	25	3	300/250	8	880	BPW38-ND	1.75	1.41	1.06	.95
6	E	25	3	300/250	8	880	L14F1-ND	1.75	1.41	1.06	.95
6	E	25	1	300/250	8	880	L14F2-ND	1.61	1.29	.97	.87
8	D	30	1	5/5	8	880	QSC112-ND	.43	.35	.26	.15
8	D	30	2	5/5	8	880	QSC113-ND	.47	.38	.29	.16
8	D	30	4	5/5	8	880	QSC114-ND	.51	.41	.31	.17
9	D	30	1.6	7/7	12	880	QSD122-ND	.59	.47	.36	.20
9	D	30	3.2	7/7	12	880	QSD123-ND	.50	.38	.29	.18
9	D	30	7.5	7/7	12	880	QSD124-ND	.53	.40	.30	.19
10	D	30	1.2	8/8	12	880	QSD722-ND	.59	.47	.36	.20
10	D	30	3	8/8	12	880	QSD723-ND	.50	.38	.29	.18
11	D	30	0.64	8/8	8	880	QSE113-ND	.51	.41	.31	.17
11	D	30	1.28	8/8	8	880	QSE114-ND	.55	.44	.33	.19

Logic Detectors

Fig.	Circuit	Output Type	VCC	Isink (mA)	Isource (mA)	Rise/Fall (ns)	Reception Angle +/-	Peak Wavelength Sensitivity	Digi-Key Part No.	Price Each 1	10	100	500
12	G	T.P. BUFF	4.5 - 16	50	10	70	25	935	QSE156-ND	.94	.71	.53	.33
12	I	T.P. INV.	4.5 - 16	50	10	70	25	935	QSE157-ND	.94	.71	.53	.33
12	H	O.C. BUFF	4.5 - 16	50	—	100	25	935	QSE158-ND	.94	.71	.53	.33
12	J	O.C. INV.	4.5 - 16	50	—	100	25	935	QSE159-ND	.94	.71	.53	.33

Fig. 1

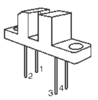
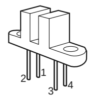


Fig. 2



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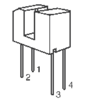

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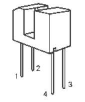

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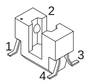
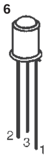


Fig. 6



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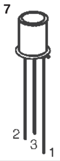

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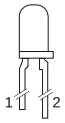
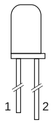


Fig. 9



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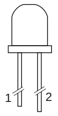

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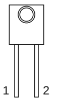

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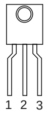

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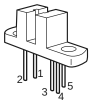
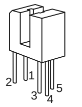
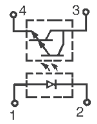


Fig. 14



Circuits

A



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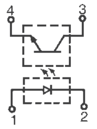

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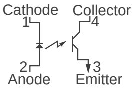

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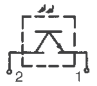

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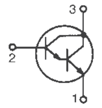

TO-18 3 Lead

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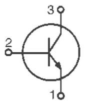
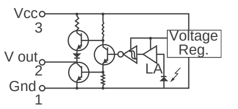


TO-18, Flat Window, 3 Lead

G



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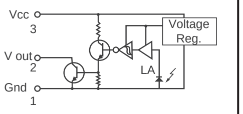

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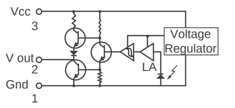

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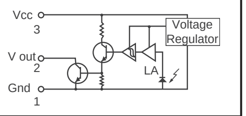

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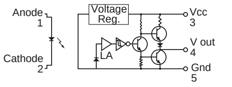

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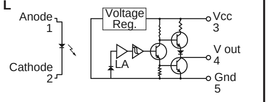

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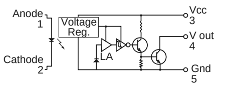

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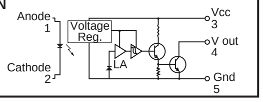
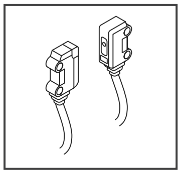


Amplified Mini Optical Sensors with Pin Point Beam



9297B-ND Omron Industrial Opto Sensor, Data Book **$2.00**

Miniature optical sensor with “Pin-point” beam for sensing minute objects (1-2mm dia.). Use both indoors or outdoors for detecting where small body size is desired. Perfect for security, conveyor detection as well as emergency stop detection and limit control and more. Sensor not affected by ambient light. Comes standard with 2 meter molded cords attached.

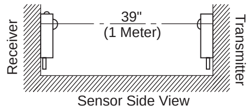
Terminal Type: 2m Cable

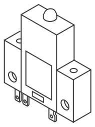
Sensing Method	Mounting Type/Features	Dist. In.	(max.) (M/mm)	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
Through-Beam	Side/Light-On	393.7	1M	OR591-ND	108.08	97.28	91.87	E3T-ST11
	Side/Dark-On	393.7	1M	OR592-ND	108.08	97.28	91.87	E3T-ST12
Reflect., Retro	Side/Light-On	7.87	200mm	OR593-ND	101.36	91.23	86.16	E3T-SR11
	Side/Dark-On	7.87	200mm	OR594-ND	101.36	91.23	86.16	E3T-SR12
Reflect., Diff.	Flat/Dark-On	1.18	30mm	OR596-ND	90.16	81.15	76.64	E3T-FD12N
Convergent Beam	Light-On	.59	15mm	Z1104-ND	67.13	62.16	53.88	E3T-SL11
	Dark-On	.59	15mm	Z1105-ND	67.13	62.16	53.88	E3T-SL12

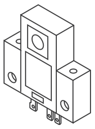
Amplified Optical Sensors

1 Meter (39 Inches) Sensing Distance!

- One meter sensing distance
- Supply voltage of 5 to 24 VDC for easy interface with TTL circuits, relays and programmable controllers
- IP60 sealability rating. Comes with two — 2m cables with connectors







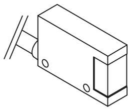
Description	Digi-Key Part No.	Price Each	Omron Part No.
Through-Beam Receiver/Transmitter Pair - Dark on	OR544-ND	99.49	EE-SPW311
Through-Beam Receiver/Transmitter Pair - Light on	OR545-ND	99.49	EE-SPW411

Long Distance Amplified Optical Sensors

9297B-ND Omron Industrial Opto Sensor, Data Book **$2.00**

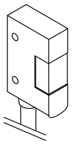
These General Purpose Optical Sensors are small DC Sensors (10-30VDC Input) available in both a transmitter-receiver pair or a reflected beam type with sensing distances of 23 feet (7 meters). Ideal for conveyor systems and doorway sensing with direct interface to PLC's. Meets NEMA 4X, 6 and IP67 standards. Through-beam sensors include separate transmitter and receiver. Reflective sensors include transceiver and E39-R1 reflector. Horizontal mount sensors include mounting bracket. All sensors include mounting hardware.

Fig. 1



Horizontal

Fig. 2



Vertical

Fig.	Sensing Method	Mounting/Type Features	Dist.(max.) Ft.	(M)	Terminal Type	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
1	Through-Beam	Horizontal	22.97	7	2m Cable	OR584-ND	171.85	154.67	146.08	E3S-AT11
	Reflective		6.56	2		OR585-ND	131.04	117.94	111.39	E3S-AR11
2	Through-Beam	Vertical	22.97	7	2m Cable	OR586-ND	171.85	154.67	146.08	E3S-AT61
	Reflective		6.56	2		OR587-ND	146.76	132.09	124.75	E3S-AR61
—	Mounting Bracket for Vertical Sensors (2 required for Through-Beam Type)					OR588-ND	5.15	4.64	4.38	E39-L59
—	Light Reflector for Confirming Optical Alignment during Setup (Clips onto Receiver)					OR589-ND	14.46	13.02	12.30	E39-R5
—	Light Interference Filter Eliminates Ambient Light Problems (Snaps onto Receiver)					OR590-ND	25.48	22.94	21.66	E39-E6

Amplified Optical Sensors

EE-SPX74/84 series of optical sensors feature a snap in connector which provides excellent shock and vibration resistance and prevents accidental disconnection of the sensor.

Fig. 1

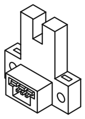


Fig. 2

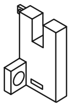


Fig. 3

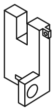


Fig. 4

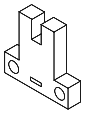


Fig.	Sensing Method	Sensing Distance	Output Type	Output	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Slot	3.6mm	NPN	Dark-On	OR615-ND	80.02	72.02	64.02	EE-SPX740
				Light-On	OR616-ND	80.02	72.02	64.02	EE-SPX840
2	Slot	3.6mm	NPN	Dark-On	OR617-ND	80.02	72.02	64.02	EE-SPX742
				Light-On	OR618-ND	80.15	72.14	64.12	EE-SPX842
3	Slot	3.6mm	NPN	Dark-On	OR619-ND	80.02	72.02	64.02	EE-SPX743
				Light-On	OR620-ND	80.03	72.03	64.02	EE-SPX843
4	Slot	3.6mm	NPN	Dark-On	OR621-ND	80.02	72.02	64.02	EE-SPX741
				Light-On	OR622-ND	80.02	72.02	64.02	EE-SPX841
Snap-In connector with cable for EE-SPX74/84 Series					OR623-ND	5.55	5.00	4.44	EE-1013

Non-Amplified Optical Sensors

Fig. 1

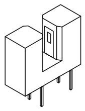


Fig. 2

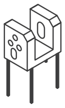


Fig. 3

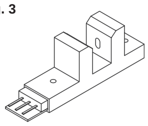
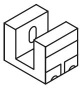


Fig.	Sensing Method	Sensing Distance	Terminal Type	Type On/Off	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Slot	5mm	PC Board	4/4	OR627-ND	1.75	1.58	1.40	EE-SX1081
		2mm			OR624-ND	1.75	1.58	1.40	EE-SX1018
		5mm			OR625-ND	1.75	1.58	1.40	EE-SX1041
		3.4mm			OR626-ND	1.75	1.58	1.40	EE-SX1071
		3mm			OR631-ND	1.75	1.58	1.40	EE-SX198
		3mm			OR632-ND	1.75	1.58	1.40	EE-SX199
2	Slot	2mm	PC Board	10/10	OR633-ND	1.28	1.15	1.02	EE-SX1103
		2mm			OR634-ND	1.28	1.15	1.02	EE-SX1105
		3mm			OR635-ND	1.28	1.15	1.02	EE-SX1106
3	Slot	5mm	AMP Connect	3Khz	OR629-ND	3.78	3.40	3.02	EE-SX4009-P1
			Molex Connect		OR630-ND	4.68	4.21	3.74	EE-SX4009-P10

Non-Amplified Optical Sensors SMT



SMT compact size makes these sensors ideal for use in applications with restricted space.

Dual channel model (EE-SX1131) is ideal for encoder applications.

Sensing Method	Sensing Dist.	Term. Type	Type On/Off	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Size	Pricing	Omron Part No.
Slot (Dual)	2mm	SMT	10/10	OR628CT-ND	1.28	1.15	1.02	OR628TR-ND	2,000	637.50/M	EE-SX1131
Slot	1mm	SMT	10/10	OR636CT-ND	1.28	1.15	1.02	OR636TR-ND	2,500	637.50/M	EE-SX1107
	2mm			OR637CT-ND	1.28	1.15	1.02	OR637TR-ND	2,000	637.50/M	EE-SX1108
	3mm			OR638CT-ND	1.28	1.15	1.02	OR638TR-ND	1,000	637.50	EE-SX1109

Silicon Detectors and Emitters

Fig. 1 – Plastic Pkg.

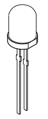


Fig. 2 – Flat Top

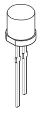


Fig. 3 – Plastic Sidelooker

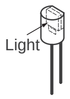


Fig. 4 – Plastic Sidelooker

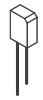


Fig. 5 – Ceramic, Epoxy Glob

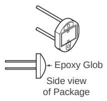


Fig. 6 – Ceramic, Epoxy Filled

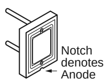


Fig. 7 – Ceramic Pkg.

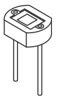


Fig. 8 – 1206 SMT Pkg.

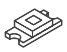


Fig. 9 – Mini SMT Pkg.

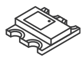


Fig. 10 – 32 Element Array

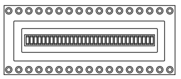


Fig. 11 – 16 Element Array

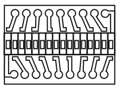


Fig. 12 – Solderable Photo Cell

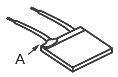


Fig. 13 – Solderable Photo Cell

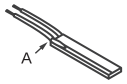


Fig. 14 – Lens Window

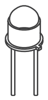


Fig. 15 – Flat Window

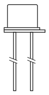


Fig. 16

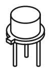


Fig. 17

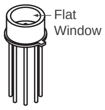
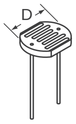
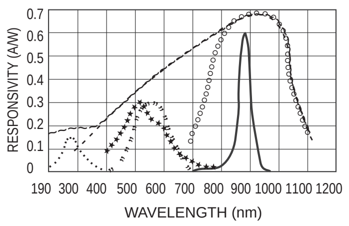


Fig. 18



Curve Graph



A(~) U.V. Enhanced Silicon Detectors
B(-) Blue Enhanced Silicon Detectors
C(. .) Silicon Carbide U.V. Detectors
D(„) Visible Light Detectors
E(°) Daylight Filter Detectors
F(—) GaAlAs Photodiodes
G(⋆) CdS Photoconductive Cells
(relative responsivity)

Photo Detectors

Fig.	Active Area (mm sq)	Short Circuit Current (Isc) (uA) Typ.	Dark Current (Id) (nA) Max	Sensitivity Wavelength (nm) Min.	Peak	Max.	Junction Capacitance (pF) Typ.	Response RL=1KOhm (ns) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	25	100	250
Blue Enhanced PhotoConductive Detectors, Curve Line B														
1	1.55	60	30	400	950	1100	6	10	30	PDB-C134-ND	.85	.80	.76	.72
1	4.10	150	30				18	50	59	PDB-C142-ND	1.50	1.45	1.37	1.30
2	4.10	67	30				18	50	61	PDB-C139-ND	1.50	1.45	1.37	1.30
3	9.00	145	30				10	50	120	PDB-C158-ND	1.00	.95	.90	.85
4	8.02	90	15				10	15	120	PDB-C156-ND	1.00	.95	.90	.85
5	17.74	235	50	350	950	1100	100	20	120	PDB-C107-ND	2.25	1.91	1.86	1.76
5	7.95	110	30				60	16		PDB-C113-ND	1.65	1.50	1.40	1.30
5	29.02	400	25				200	18		PDB-C140-ND	3.99	3.60	3.25	2.90
6	100	1300	30				300	25		PDB-C110-ND	46.32	37.06	32.94	30.88
8	0.74	10	10	400	950	1100	15	50	140	PDB-C152SMCT-ND	.85	.80	.76	.68
8	0.74	10					15	50	140	PDB-C152SMTR-ND		1699.77/3,000		
9	2.10	25					4	10	—	PDB-C154SMCT-ND	.95	.90	.85	.80
9	2.10	25					4	10	—	PDB-C154SMTR-ND		1376.47/3,000		
Photo Conductive Detectors with Daylight Filter, Curve Line E														
1	1.55	60	30	700	950	1100	6	10	30	PDB-C134F-ND	.85	.80	.76	.72
1	4.10	150	30				18	50	40	PDB-C142F-ND	1.50	1.45	1.37	1.30
2	4.10	67	30				18	50	61	PDB-C139F-ND	1.50	1.45	1.37	1.30
3	9.00	145	30				10	50	120	PDB-C158F-ND	1.00	.95	.90	.85
4	8.02	90	15				10	15	120	PDB-C156F-ND	1.00	.95	.90	.85
9	2.10	25	10	700	950	1100	4	10	—	PDB-C154SMFCT-ND	.95	.90	.85	.80
9	2.10	25		700	950	1100	4	10	—	PDB-C154SMFTR-ND		1376.47/3,000		
Blue Enhanced Photovoltaic Detectors, Curve Line B														
5	17.74	200	0.8	350	950	1100	2000	1000	120	PDB-V107-ND	2.19	1.85	1.80	1.70
5	7.95	80	0.5				800	750		PDB-V113-ND	1.41	1.31	1.21	1.11
6	100.00	1200	0.333				10000	2000		PDB-V110-ND	42.01	34.02	29.01	27.01
U.V. Enhanced Photovoltaic Detectors, Curve Line A														
15	2.98	40	0.01	190	—	1100	340	450	65	PDU-V104-ND	19.99	17.99	10.00	9.50
	17.63	230	0.05				2000	900	63	PDU-V114-ND	28.00	25.00	18.50	15.00
Blue Enhanced Solderable Photo Cells, Curve Line B														
12	42.4	545	75	350	940	1100	240	30	—	PDB-C609-2-ND	8.51	8.26	7.98	7.71
12	86.4	1000	180				350	50		PDB-C613-2-ND	11.00	10.45	10.15	9.90
13	14.5	185	35				125	25		PDB-C607-2-ND	4.41	4.19	4.08	3.96
13	68.7	900	150				300	45		PDB-C612-2-ND	8.85	8.50	7.95	7.70
13	232.7	2800	700				775	150		PDB-C615-2-ND	26.40	24.75	22.00	19.80
Blue Enhanced Bi-Cells, Quadrants and Multi-Element Detector Arrays, Curve Line B														
10	1.47*	11	.15	350	950	1100	30	200	—	PDB-C232-ND	125.00	106.00	90.00	75.00
11	2.31*	28	5.0				40	800	—	PDB-C216-ND	45.00	38.00	28.00	24.00
16	3.23*	75	2.0				15	8	72	PDB-C201-ND bi-cell	16.00	14.50	12.25	10.00
17	1.61*	50	1.0				8	7	71	PDB-C203-ND quad	29.00	26.00	22.00	18.75
Silicon Carbide (SiC) U.V. Photodiode, Curve Line C														
16	0.08	0.04	1.0	200	280	400	21	5	87	PDU-S101-ND	30.02	25.02	20.02	16.01
Visible Light Detector, Curve Line D														
7	5.44	6.5	0.01	320	560	730	650	500	100	PDV-V417-ND	4.25	3.86	3.46	3.26
	1.55	2.8	0.15				500		—	PDV-V419-ND	4.15	3.75	3.35	3.20
Detector-Amplifier Hybrid, Curve Line B														
17	5.07	65	5.0	350	950	1100	15	15	67	PDB-705-ND†	34.02	27.02	22.02	19.01
									82	PDB-716-100-ND‡	42.38	38.00	35.00	25.00
GaAlAs I.R. Photodiode, Curve Line F														
1	0.77	22	2.0	840	880	940	90	1000	30	PDI-G104-ND	6.02	5.02	4.02	3.02
16		6.0							65	PDI-G103-ND	10.01	9.02	7.01	4.01
14		22							40	PDI-G103L-ND	10.01	9.01	7.01	4.01

*****Per Element † 8 pin ‡ 5 pin

High Power Infrared Emitters

Fig.	Forward Voltage (V) Typ.	Forward Current (mA) Con.	Output Power (mW) Typ.	Beam Angle (2x Theta)	Peak Wavelength (nm) Typ.	Digi-Key Part No.	Price Each 1	25	100	250
14⋆	1.5	100	24	40	880	PDI-E802-ND	2.81	2.37	2.01	1.76
			24	8		PDI-E803-ND	2.81	2.37	2.01	1.76
			32	80		PDI-E804-ND	2.20	1.85	1.80	1.70
			24	5		PDI-E805-ND	2.99	2.55	2.52	2.15
15⋆	1.5	100	22	80	880	PDI-E801-ND	2.81	2.37	2.01	1.76

⋆ Tab denotes cathode

Photoconductive Cells

Dim. D (D)	Cell Resistance⋆ 10 Lux @ 2856K Min. (K ohm)	Max. (K ohm)	Dark Min. (M ohm)	SEC	Peak Wavelength (nm) Typ.	Rise/Fall Time (ms) Typ.	Digi-Key Part No.	Price Each 1	25	100	250
Fig. 18, Curve Line G											
11.00	8	16	0.3	10	520	55/25	PDV-P5001-ND	.71	.61	.59	.56
	12	30	0.5				PDV-P5002-ND	.71	.61	.59	.56
	12	58	1				PDV-P5003-ND	.71	.61	.59	.56
5.10	3	11	0.2	10	520	50/20	PDV-P8001-ND	.57	.49	.48	.45
	8	24	0.5			50/20	PDV-P8002-ND	.57	.49	.48	.45
	16	33	0.5			55/20	PDV-P8003-ND	.57	.49	.48	.45
	20	60	0.5			55/20	PDV-P8004-ND	.57	.49	.48	.45
	40	120	1			60/25	PDV-P8005-ND	.57	.49	.48	.45
	80	240	5	10	520	60/25	PDV-P8006-ND	.57	.49	.48	.45
	4	11	0.15			55/20	PDV-P8101-ND	.57	.49	.48	.45
	9	20	0.3			60/25	PDV-P8102-ND	.57	.49	.48	.45
	16	33	0.5			60/25	PDV-P8103-ND	.57	.49	.48	.45
	27	60	2			60/25	PDV-P8104-ND	.57	.49	.48	.45
	50	94	2.5	10	520	60/25	PDV-P8105-ND	.57	.49	.48	.45
	50	140	20				PDV-P8106-ND	.57	.49	.48	.45
	80	240	20				PDV-P8107-ND	.57	.49	.48	.45
4.20	4	11	0.3	10	520	60/25	PDV-P9001-ND	.25	.24	.22	.20
	9	20	0.5				PDV-P9002-ND	.25	.24	.22	.20
	11	20	0.5				PDV-P9002-1-ND	.25	.24	.22	.20
	16	33	1				PDV-P9003-ND	.25	.24	.22	.20
	23	33	1				PDV-P9003-1-ND	.25	.24	.22	.20
	27	60	2	10	520	60/25	PDV-P9004-ND	.25	.24	.22	.20
	50	94	2.5				PDV-P9005-ND	.25	.24	.22	.20
	48	140	20				PDV-P9005-1-ND	.25	.24	.22	.20
	80	200	5				PDV-P9006-ND	.25	.24	.22	.20
	10	100	1				PDV-P9007-ND	.25	.24	.22	.20
	10	200	20	10	520	60/25	PDV-P9008-ND	.25	.24	.22	.20
	20	45	1			60/25	PDV-P9103-ND	.25	.24	.22	.20
	10	50	5			70/15	PDV-P9200-ND	.25	.24	.22	.20
	5	20	20			70/15	PDV-P9203-ND	.25	.24	.22	.20

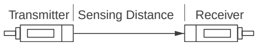
⋆ Photocells are light adapted at 100 to 500 Lux.

OMRON

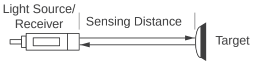
9136B-ND Omron Photo Microsensors Data Book **$2.95**

Non-Amplified Optical Sensors

Omron's optical sensors are designed to meet the needs of positioning, detection of components and objects, cam-timer switching-control and robotic control. Available in two types: nonamplified optical sensors are low cost, fast response optical sensors used mainly in design-in processes. Amplified optical sensors are ideal for plug and play applications where external light does not affect performance and wide input voltages can be applied.



Through-Beam Slot Type



Reflective Type

Fig. 1

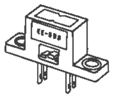


Fig. 2

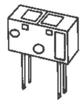


Fig. 3

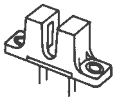


Fig. 4

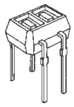


Fig. 5

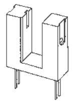


Fig. 6

Low Profile

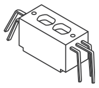


Fig. 7

Dual Channel

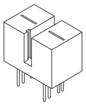


Fig. 8

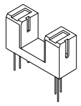


Fig. 9

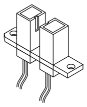


Fig. 10

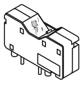


Fig. 11

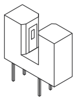


Fig. 12

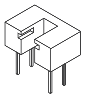


Fig. 13

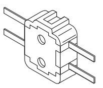


Fig. 14

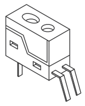


Fig. 15

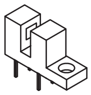


Fig.	Sensing Method	Sensing Distance	Terminal Type	Typ. t_{on}/t_{off} (µsec.)	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
1	Reflective	5mm	Solder	30/30	OR500-ND	4.78	4.30	3.44	EE-SB5
1	Reflective	5mm	PC Board	30/30	OR501-ND	4.78	4.30	3.44	EE-SB5-B
2	Reflective	5mm	Solder	30/30	OR502-ND	4.70	4.23	3.39	EE-SF5
2	Reflective	5mm	PC Board	30/30	OR503-ND	4.70	4.23	3.39	EE-SF5-B
3	Slot	3.6mm	Solder	4/4	OR504-ND	3.58	3.22	2.58	EE-SG3
3	Slot	3.6mm	PC Board	4/4	OR505-ND	3.58	3.22	2.58	EE-SG3-B
4	Reflective	1mm	PC Board	35/25	OR520-ND	1.90	1.71	1.37	EE-SY124
4	Reflective	1mm	SMT	35/25	OR557-ND	1.90	1.71	1.37	EE-SY125
5	Slot	5mm	PC Board	4/4	OR518-ND	1.68	1.51	1.21	EE-SX1042
5	Slot	4.6mm	PC Board	500 Hz	OR556-ND	1.95	1.76	1.41	EE-SX1061
5	Slot	3mm	PC Board	70/70	OR601-ND	1.95	1.76	1.41	EE-SX298
6	Reflective	5mm	PC Board	50 Hz	OR525-ND	3.45	3.11	2.49	EE-SY310
6	Reflective	5mm	PC Board	50 Hz	OR526-ND	3.45	3.11	2.49	EE-SY410
6	Reflective	4.4mm	PC Board	3/20	OR603-ND	3.68	3.31	2.65	EE-SY313
6	Reflective	4.4mm	PC Board	3/20	OR604-ND	3.68	3.31	2.65	EE-SY413
7	Slot	3.4mm	PC Board	4/4	OR523-ND	4.08	3.67	2.94	EE-SX1031
8	Slot	8mm	PC Board	3 KHz	OR524-ND	1.93	1.74	1.39	EE-SX4070
8	Slot	8mm	PC Board	3 KHz	OR571-ND	1.68	1.51	1.21	EE-SX1070
9	Vert Slot	3.4mm	61cm Wires	4/4	OR562-ND	7.08	6.37	5.10	EE-SX1088-W1
9	Horz Slot	3.4mm	61cm Wires	4/4	OR563-ND	6.68	6.01	4.81	EE-SX1096-W1
10	Reflect/Vert	4.5mm	PC Board	30/30	OR564-ND	8.68	7.81	6.25	EE-SY190
10	Reflect/Horz	4.5mm	PC Board	30/30	OR565-ND	8.68	7.81	6.25	EE-SY191
11	Slot	3.4mm	PC Board	4/4	OR569-ND	3.18	2.86	2.29	EE-SJ3-D
11	Slot	2.8mm	PC Board	4/4	OR598-ND	2.03	1.83	1.46	EE-SX1025
11	Slot	5.2mm	PC Board	4/4	OR599-ND	2.13	1.92	1.53	EE-SX1035
12	Slot	3mm	PC Board	4/4	OR570-ND	2.90	2.61	2.09	EE-SX1046
12	Slot	2mm	PC Board	3/20	OR600-ND	2.93	2.64	2.11	EE-SX493
13	Reflective	4 mm	PC Board	180/60	OR578-ND	3.53	3.18	2.54	EE-SY201
14	Red LED Reflect	4 mm	PC Board	30/30	OR581-ND	10.53	9.48	7.58	EE-SY169
14	IR Reflective	4 mm	PC Board	30/30	OR582-ND	9.40	8.46	6.77	EE-SY169A
15	Slot	3mm	PC Board	70/70	OR602-ND	3.05	2.75	2.20	EE-SK3W-B

Amplified Optical Sensors

Fig. 1

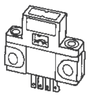


Fig. 2

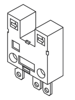


Fig. 3

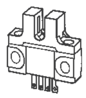
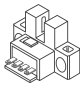
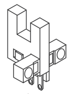


Fig. 4



L-Shape

Fig. 5



T-Shape

Fig. 6

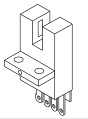


Fig. 7

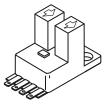


Fig. 8

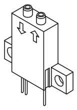
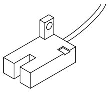


Fig. 9



Right Mount Shown

Fig. 10

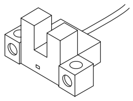


Fig. 11

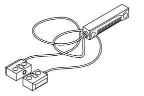


Fig. 12

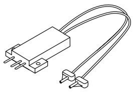


Fig. 13

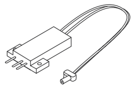


Fig. 14

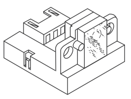
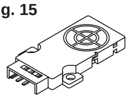


Fig. 15



Inductive Type

Fig. 16

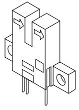


Fig. 17

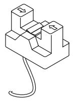


Fig. 18

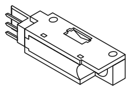


Fig. 19

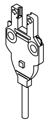


Fig. 20

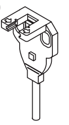


Fig. 21

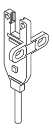


Fig.	Sensor Type/Features	Sensing Distance	Config-uration	Digi-Key Part No.	Price Each 1	25	Omron Part No.
1	Reflective (General Purpose)	5mm	Light-On	OR506-ND	15.78	14.20	EE-SB5V
1	Reflective (General Purpose)	5mm	Dark-On	OR507-ND	15.78	14.20	EE-SB5VC
1	Reflective (General Purpose)	19mm	Light-On	OR519-ND	22.08	19.87	EE-SB5V-E
1	Reflective (Side Detecting)	5mm	Light-On	OR535-ND*	42.89	38.60	EE-SPY311
1	Reflective (Side Detecting)	5mm	Light-On	OR536-ND*	42.89	38.60	EE-SPY411
1	Reflective (Top Detecting)	5mm	Dark-On	OR572-ND*	42.89	38.60	EE-SPY312
1	Reflective (Top Detecting)	5mm	Light-On	OR573-ND*	42.89	38.60	EE-SPY412
1	Reflective (Side Detecting)	5mm	Light/Dark-On	OR531-ND†	21.90	19.71	EE-SY671
1	Reflective (Top Detecting)	5mm	Light/Dark-On	OR532-ND†	21.90	19.71	EE-SY672
2	Wide Slot (13mm Slot)	13mm	Dark-On	OR533-ND*	45.94	41.35	EE-SPX303
2	Wide Slot (13mm Slot)	13mm	Light-On	OR534-ND*	45.94	41.35	EE-SPX403
3	Slot (Dust Proof Slit)	5mm	Light/Dark-On	OR528-ND	21.28	19.15	EE-SX670
3	Slot (Dust Proof Slit)	5mm	Light/Dark-On	OR611-ND	21.28	19.15	EE-SX670A
4	Slot (L-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR529-ND	21.70	19.54	EE-SX671
4	Slot (L-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR612-ND	21.70	19.54	EE-SX671A
5	Slot (T-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR530-ND	21.96	19.77	EE-SX672
5	Slot (T-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR613-ND	21.96	19.77	EE-SX672A
6	Slot (Close Mounting Style)	5mm	Light/Dark-On	OR549-ND	22.75	20.48	EE-SX673
6	Slot (Close Mounting Style)	5mm	Light/Dark-On	OR614-ND	22.75	20.48	EE-SX673A
7	Slot (Close Mount)	5mm	Light/Dark-On	OR597-ND	23.39	21.06	EE-SX674
8	Reflective (Long Distance)	200mm	Dark-On	OR538-ND*	57.72	51.95	EE-SPZ301A
8	Reflective (Long Distance)	200mm	Light-On	OR539-ND*	57.72	51.95	EE-SPZ401A
9	Slot (Left Mount w/1M Cable)	3.6mm	Dark-On	OR541-ND*	65.38	58.85	EE-SPX302-W2A
9	Slot (Right Mount w/1M Cable)	3.6mm	Dark-On	OR542-ND*	70.66	63.60	EE-SPX304-W2A
10	Slot (Top Mount w/1M Cable)	3.6mm	Dark-On	OR543-ND*	73.33	66.00	EE-SPX305-W2A
11	Slot (Wide Sensing Distance)	300mm	Dark-On	OR546-ND*	169.78	152.81	EE-SPW321
11	Slot (Wide Sensing Distance)	300mm	Light-On	OR547-ND*	169.78	152.81	EE-SPW421
12	Fiber (19" Optical Fiber)	30mm	Dark-On	OR552-ND*	78.91	71.02	EE-SPZ301W-01
12	Fiber (19" Optical Fiber)	30mm	Light-On	OR553-ND*	78.91	71.02	EE-SPZ401W-01
13	Reflective (11"Optical Fiber)	1-3mm	Dark-On	OR554-ND*	82.52	74.27	EE-SPZ301Y-01
13	Reflective (11" Optical Fiber)	1-3mm	Light-On	OR555-ND*	82.52	74.27	EE-SPZ401Y-01
14	Reflective (External A-D Needed)	7.5mm	10 Bit A/D	OR548-ND	54.90	49.41	Z4D-A01
15	Inductive (Detects Ferrous Metal)	5mm	N/O Output	OR560-ND	27.82	25.04	E2R-A01
16	Slot (General Purpose)	3.6mm	Dark-On	OR574-ND*	44.18	39.76	EE-SPX301
16	Slot (General Purpose)	3.6mm	Light-On	OR575-ND*	44.18	39.76	EE-SPX401
17	Slotted Liquid Level Detector	6-13mm	Dark/Light-On	OR579-ND*	126.18	113.56	EE-SPX613
18	Reflective (General Purpose)	11mm	Dark-On	OR580-ND*	11.70	10.53	EE-SPY415
19	Slot Type w/2M Cable	5mm	Dark-On	OR605-ND*	28.44	25.60	EE-SX770
19	Slot Type w/2M Cable	5mm	Light-On	OR606-ND*	28.44	25.60	EE-SX870
20	L-Shaped w/2M Cable	5mm	Dark-On	OR607-ND*	30.11	27.10	EE-SX771
20	L-Shaped w/2M Cable	5mm	Light-On	OR608-ND*	30.11	27.10	EE-SX871
21	T-Shaped w/2M Cable	5mm	Dark-On	OR609-ND*	31.37	28.24	EE-SX772
21	T-Shaped w/2M Cable	5mm	Light-On	OR610-ND*	31.37	28.24	EE-SX872
—	IR Reflector for Fig. 8 above, 60 x 40mm			OR540-ND	15.54	13.99	E39-R1
—	3 Pin Conn. w/ 1 Meter Cable for Fig. 15 above			OR561-ND	7.45	6.71	E22-01
—	Converter from NPN to PNP Output for Amp Sensors			OR550-ND	28.13	25.32	EE-2001
—	Converter from NPN to PNP Output for AMP Sensors			OR551-ND	28.13	25.32	EE-2002
—	4 Pin Connector for Fig. 1-6 above			OR527-ND	2.83	2.55	EE-1001
—	4 Pin Conn. w/ 2 Meter Cable for Fig. 1-6 above			OR559-ND	13.50	12.15	EE-1006
—	Panel Mount Holder Clip for OR559-ND			OR576-ND	3.45	3.11	EE-1006A
—	3 Pin Connector for 8, 12, 13 and 16 above			OR537-ND	2.85	2.57	EE-1002
—	3 Pin Conn. w/ 2 Meter Cable for 4, 12 and 13 above			OR558-ND	5.13	4.62	EE-1003
—	Panel Mount Holder Clip for OR558-ND			OR583-ND	1.58	1.42	EE-1003A

* Sensors not influenced by external light. † Built-in sensitivity adjuster.

OMRON®

D7A/D7E Vibration Sensors

Fig. 1 — D7A

Vertical Shown

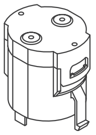
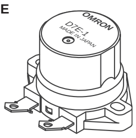


Fig. 2 — D7E



These vibration sensors are perfect for quick detection of movements that could cause damage to equipment or can be used to safely shut down critical operations. Sensors are auto-resetable and require no manual resetting. D7A is a horizontal keeping vibration sensor that is PC mounted. D7E vibration sensors are low cost sealed vibration sensors with various sensitivities. Use these sensors for industrial equipment, cranes, forklifts, industrial manufacturing and boilers. Use in natural gas meter shutoffs, vending machines, conveyor systems, earthquake sensors or any circuits that require safety shutoff during a period of vibration or tilting.

Specifications: • Acceleration Setting: 90 to 170 gal • Various sensitivites • Contact Capacity: D7A = 5uA - 1mA@3VDC, D7E = 100mA@5-30VDC • Contact Form: SPST-NO • Operating Temperature: D7A = -30° +70°C, D7E = -25° - +60°C • Dielectric Strength: AC250V 50/60Hz

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	90-170gal Horizontal Switch - 1mA	Z2004-ND	34.23	30.81	27.38	D7A-1
	90-170gal Vertical Switch - 1mA	Z2005-ND	34.23	30.81	27.38	D7A-2
	90-170gal Chassis Mount Switch - 1mA	Z2006-ND	36.35	32.72	29.08	D7A-3
2	130-200gal Vibration Switch - .1A	Z2007-ND	9.98	8.98	7.98	D7E-1
	100-170gal Vibration Switch - .1A	Z2008-ND	5.60	5.04	4.48	D7E-2
	50-80° Tilt Switch - .1A	Z2009-ND	9.78	8.80	7.82	D7E-3

D7H Equipment Vibration Sensors

Fig. 1

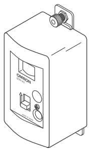
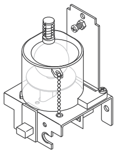


Fig. 2



These vibration switches feature a highly durable stainless steal diaphragm that allows detection of very small movements. Used to prevent secondary damage after earthquakes and to replace mercury with a simple mechanical system. Manually resettable, vertically mounted sensor in either an enclosed case or open sensor.

Specifications: • 100-170gals, 10A 125VAC, .1A 30VDC • Operating Temp: -26 to 70°C

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Enclosed Vibration Detection Switch - 10A	Z2010-ND	240.33	216.30	192.26	D7H-A1
2	Open Cased Vibration Detection Switch - 10A	Z2011-ND	73.73	66.36	58.98	D7H-B1
	Open Cased Vibration Detection Switch - .10A	Z2012-ND	73.73	66.36	58.98	D7H-B2

D8M Pressure Sensors

Fig. 1

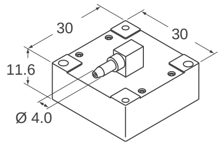
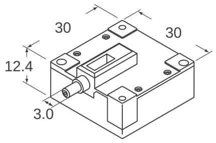


Fig. 2

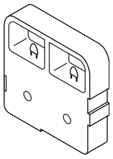


D8M pressure sensors are precise detecting change of air pressure sensors with outputs of either Analog or Digital signals. Perfect for water level monitoring, liquid level monitoring and HVAC changes in the air flow.

Features: • High Noise immunity • Pressure range: D8M-D1 = 0 - 5.88kPa, D8M-A1 = 0 to 4.9Pa • Current Consumption: D8M-D1 = 150mA at output 3VDC, D8M-A1 = 2.5mA • Temperature Comp: -30° to 70°C • Protection Structure: IP 40 **Characteristics**: • Output resolution: 0.01kPa/1 pulse • Output Frequency: 150 ~ 450kHz

Fig.	Pressure Type	Range	Output	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Gauge	.2 - 4.9Pa	Analog	Z2013-ND	75.08	67.57	60.06	D8M-A1
2	Gauge	0 - 5.88kPa	Digital	Z2014-ND	112.55	101.30	90.04	D8M-D1
—	Gauge	0 - 196.13Pa	Digital	Z2017-ND	187.55	168.80	150.04	D8M-R1

D6A Air Flow Sensor

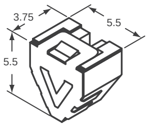


The industry first D6A filter sensor contains a microprocessor with a complex algorithms that provides a temperature reference point to see if a filter fan is moving the right amount of air. If the sensor indicates it is not, then the user knows the filter is clogged. With its sensing capabilities, the D6A provides reliability protection, ensuring the dependability of continued operation of expensive equipment This clogged filter sensor is excellent for servers, high end routers and network devices. Other applications include uninterruptible power supplies and cash registers, and other types of machines that use a filter fan.

Specifications: • Supply Voltage: DC12V • Current Consumption: 60mA (Max.)

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Air Flow Sensor - .5-1.5M/1 Sec.	Z2002-ND	78.38	70.54	62.70	D6A-N

D6B Tilt Switch



Ideal for equipment tilt detection. Will give you a sperate output when tilted left or right. Perfect for signaling a screen to rotate from portrait to landscape view in keeping with product orientation. Can be used in space heaters.

Specifications: • Output Current: 1mA • Operating Temperature: -10 ~ +60°C **Characteristics**: • Supply Voltage: 2.7 ~ 3.3V • Output High Voltage: Vdd - 0.5V • Ouput Low Voltage: 0.5V (Max) • Current Consumption: 20µA (Max.) • Operation Angle: 35 ~ 65°C

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Micro SMD Tilt Switch - Left/Right	Z2003-ND	14.25	12.83	11.40	D6B-1

Inductive Proximity Sensors

Fig. 1

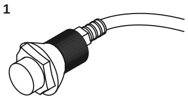
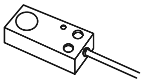


Fig. 2



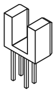
Omron's line of inductive sensors are designed for detecting the presence or absence of ferrous metal close to the sensor and provide an output when detected.

Because inductive sensors use electromagnetic fields, they excel over photo type sensors in environments containing water, oil, dust and dirt.

Shielded sensors are made with a shielding plate around the ferrite core to focus ferrous metal sensing at the sensors head. It also allows sensor to be located or mounted close to surrounding metals.

Fig.	Sensing Distance Max.	Description	Terminal Type	Output Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	1.5mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1062-ND	57.15	52.92	49.40	E2E-X1R5E1-N
	1.5mm	M8, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1063-ND	68.04	63.00	58.80	E2E-X1R5Y1-N
	2mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1064-ND	58.97	54.60	50.96	E2E-X2D1-N-N
	2mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1065-ND	57.15	52.92	49.40	E2E-X2E1-N
	2mm	M12, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1066-ND	68.04	63.00	58.80	E2E-X2Y1-US-N
	3mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1067-ND	59.88	55.44	51.75	E2E-X3D1-N-N
	5mm	M18, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1068-ND	58.97	54.60	50.96	E2E-X5E1-N
	5mm	M18, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1069-ND	72.58	67.20	62.72	E2E-X5Y1-US-N
	7mm	M18, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1070-ND	61.69	57.12	53.32	E2E-X7D1-N-N
	1.5mm	M8, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1075-ND	55.34	51.24	47.83	E2F-X1R5E1
	1.5mm	M8, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1076-ND	69.85	64.68	60.37	E2F-X1R5Y1
	10mm	M30, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1077-ND	59.42	55.02	51.36	E2F-X10E1
	2mm	M12, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1078-ND	53.52	49.56	46.26	E2F-X2E1
	2mm	M12, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1079-ND	69.85	64.68	60.37	E2F-X2Y1
	5mm	M18, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1080-ND	54.43	50.40	47.04	E2F-X5E1
	5mm	M18, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1081-ND	71.67	66.36	61.94	E2F-X5Y1-US
2	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	PNP	Z1082-ND	47.17	43.68	40.77	TL-W1R5MB1
	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1083-ND	47.17	43.68	40.77	TL-W1R5MC1
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1084-ND	49.99	46.29	43.20	TL-W3MC1
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1085-ND	42.61	39.45	36.82	TL-W5MB1
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1086-ND	42.64	39.48	36.85	TL-W5MC1
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1189-ND	49.99	46.29	43.20	TL-W3MB1

Switches

Fig. 1

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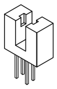
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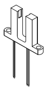
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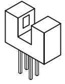
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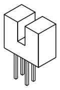
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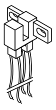
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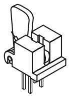
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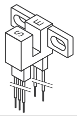
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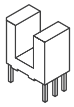
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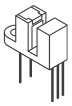
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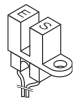
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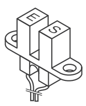
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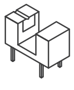
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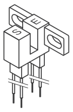
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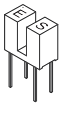
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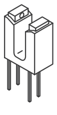
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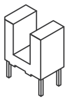
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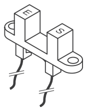
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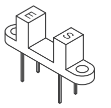
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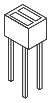
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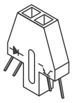
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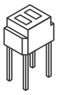
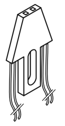


Fig.	Output Type	Slot Width Inch (mm)	Lead Spacing Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
Slotted Optical								
1	Transistor	.200 (5.08)	.325 (8.26)	365-1008-ND	1.57	1.14	1.06	OPB620
2	Transistor	.160 (4.06)	.310 (7.87)	365-1017-ND	1.98	1.44	1.34	OPB804
3	Transistor	.20 (5.08)	—	365-1018-ND	5.09	3.70	3.43	OPB817
3	Photologic®	.20 (5.08)	—	365-1022-ND	5.78	4.20	3.89	OPB917B
4	Transistor	.210 (5.33)	.410 (10.41)	365-1019-ND	2.37	1.72	1.60	OPB818
5	Transistor	2.10 (5.33)	.310 (7.87)	365-1021-ND	2.12	1.54	1.43	OPB848
6	Photologic®	.130 (3.30)	—	365-1023-ND	6.49	4.72	4.37	OPB930W55
8	Photologic®	.125 (3.18)	.320 (8.13)	365-1109-ND	6.52	4.74	4.39	OPB941W51
9	Photologic®	.320(8.13)	.190 (4.83)	365-1090-ND	1.90	1.38	1.28	OPB625
19	Photologic®	.125 (3.18)	.320 (8.13)	365-1110-ND	4.51	3.28	3.04	OPB960T11
9	Photologic®	.125 (3.18)	.320 (8.13)	365-1111-ND	4.40	3.20	2.96	OPB970N11
19	Photologic®	.125 (3.18)	.320 (8.13)	365-1112-ND	3.58	2.60	2.41	OPB970T55
9	Photologic®	.125 (3.18)	.320 (8.13)	365-1113-ND	3.69	2.68	2.48	OPB973N51
12	Photologic®	.125 (3.18)	—	365-1114-ND	5.69	4.14	3.83	OPB990T55
10	Photologic®	.125 (3.18)	.320 (8.13)	365-1087-ND	3.58	2.60	2.41	OPB460L11
11	Phototransistor	.125 (3.18)	—	365-1107-ND	4.90	3.56	3.30	OPB880P51
12	Phototransistor	.125 (3.18)	—	365-1108-ND	4.87	3.54	3.28	OPB891T51
13	Phototransistor	.205 (5.21)	.380 (9.65)	365-1105-ND	2.42	1.76	1.63	OPB855
14	Phototransistor	.125 (3.18)	—	365-1100-ND	5.25	3.82	3.54	OPB830W55
14	Phototransistor	.125 (3.18)	—	365-1102-ND	6.71	4.88	4.52	OPB840W11
14	Phototransistor	.125 (3.18)	.320 (8.13)	365-1101-ND	3.69	2.68	2.48	OPB840L11
14	Phototransistor	.125 (3.18)	—	365-1103-ND	5.28	3.84	3.56	OPB841W55
15	Phototransistor	.130 (3.300	.225 (5.72)	365-1106-ND	3.91	2.84	2.63	OPB865N11
16	Phototransistor	.160 (4.06)	.300 (7.62)	365-1099-ND	1.98	1.44	1.34	OPB825
17	Phototransistor	.160 (4.06)	.280 (7.12)	365-1089-ND	1.57	1.14	1.06	OPB610
Slotted Optical Flag								
7	Transistor	.090 (2.16)	.280 (7.11)	365-1009-ND	2.86	2.08	1.93	OPB680
Wide Gap Slotted Optical								
18	Phototransistor	.375 (9.53)	—	365-1096-ND	5.20	3.78	3.50	OPB810W51
18	Phototransistor	.375 (9.53)	—	365-1098-ND	4.95	3.60	3.33	OPB811W55
19	Phototransistor	.375 (9.53)	.570 (14.48)	365-1094-ND	2.97	2.16	2.00	OPB800L55
19	Phototransistor	.375 (9.53)	.570 (14.48)	365-1095-ND	3.03	2.20	2.04	OPB810L51
19	Phototransistor	.375 (9.53)	.570 (14.48)	365-1097-ND	2.92	2.12	1.97	OPB811L55
Reflective Object Sensors								
20	Phototdarlington	—	—	365-1093-ND	3.36	2.44	2.26	OPB707A
20	Phototransistor	—	—	365-1092-ND	2.61	1.90	1.76	OPB706A
21	Phototransistor	—	—	365-1091-ND	3.30	2.40	2.22	OPB704
22	Phototransistor	—	—	365-1088-ND	1.57	1.14	1.06	OPB606A

Sensors

Fig. 1

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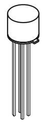
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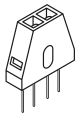
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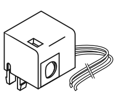
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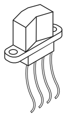


Reflective Object Sensors

Fig.	Continuous Forward Curr. (mA)	Reverse DC Voltage	V (BR)ECO Voltage (Min.)	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
1	100	2.0	5.0	4.0" (101.6)	365-1010-ND	9.90	7.20	6.66	OPB700
	100	2.0	5.0	18.0" (457.2)	365-1011-ND	13.09	9.52	8.81	OPB701AL
2	50	3.0	5.0	—	365-1012-ND	7.67	5.58	5.17	OPB710
3	40	2.0	5.0	—	365-1014-ND*	2.89	2.10	1.95	OPB742
	40	2.0	5.0	—	365-1015-ND*	3.60	2.62	2.43	OPB745

* Collector Emitter Voltage 30V - OPB742 and 15V - OPB745

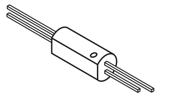
Photologic® Reflective Object Sensors

Fig.	Supply Voltage	Output Voltage	Operating DC Supply Voltage	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
4	10	35	4.75 - 5.25	18.0" (457.2)	365-1013-ND	8.58	6.24	5.78	OPB716
5	10	35	4.75 - 5.25	12.0" (304.8)	365-1016-ND	8.94	6.50	6.02	OPB770T

Optoisolators

OPI1264 Series: Optically coupled isolators, each consisting of an infrared emitting diode coupled to an NPN silicon phototransistor and sealed in a precast opaque housing.

OPI155 Series: Contains a high speed monolithic photo-IC comprised of a photodiode and DC amplifier driving an open collector output Schottky transistor.

Fig. 1

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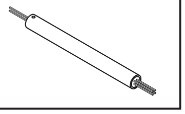
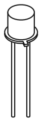


Fig.	Isolation Voltage	Forward DC Voltage (mA)	Reverse DC Voltage	DC Current Transfer Ratio (mA)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
1	±10k	40	2.0	2.5	365-1031-ND	2.75	2.00	1.85	OPI1264A
	±10k	40	2.0	5.0	365-1032-ND	2.81	2.04	1.89	OPI1264B
	±10k	40	2.0	10.0	365-1033-ND	2.86	2.08	1.93	OPI1264C
2	±50k	50	3.0	25	365-1034-ND	67.49	49.08	45.40	OPI155

Infrared Emitters and Receivers

Fig. 1

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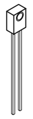
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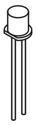
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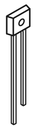
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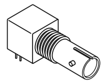
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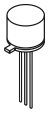
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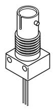


Infrared Light-Emitting Diodes

• Reverse Voltage: 2.0V • Rise/Fall Time: 10ns

Fig.	Style Package	Continuous Forward DC Current (mA)	Peak Emission (nm)	Apertured Irrad. Min. / Max. (mW / cm^2)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
1	TO-46	100	850	.5 / —	365-1004-ND	3.48	2.03	1.93	OP230WPS
2	Side View	50	850	.10 / .90	365-1005-ND	1.98	1.16	1.10	OP245PS
3	T-1	50	850	.055 / .55	365-1006-ND	1.68	.98	.93	OP265WPS
4	End-Looking	50	850	.10 / .90	365-1007-ND	1.80	1.05	1.00	OP268FPS

Fiber Optic (850nm) Light-Emitting Diodes

Fig.	Optical Power Output Min. / Typ.	Output Rise Time - Typ. (ns)	Continuous Forward DC Current (mA)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
5	-17.3 µW / -13.8µW	4.0	100	365-1024-ND	12.85	10.52	9.64	OPF1414T
6	25.0dBm / 29.0dBm	6.0	100	365-1026-ND	8.89	7.28	6.67	OPF370A

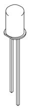
Fiber Optic Pin Photodiodes and Receivers

Fig.	Output Current (mA)	Responsivity Min. / Typ.	Output Rise Time - Typ. (ns)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
5	25	5.3mV / 7µW	3.3	365-1025-ND	13.86	11.34	10.40	OPF2416T
6	—	0.45AW / 0.55AW	6.0	365-1028-ND	7.44	6.09	5.58	OPF470
	—	0.45AW / 0.55AW	1.0	365-1029-ND	7.30	5.98	5.48	OPF480
7	—	0.45AW / 0.55AW	1.0	365-1030-ND	15.49	12.68	11.62	OPF482

OPTEK TECHNOLOGY, INC.

Infrared Emitters and Receivers

Fig. 1



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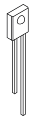

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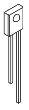

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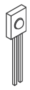

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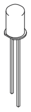

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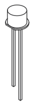

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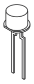

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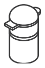

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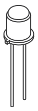

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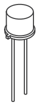

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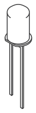

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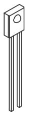

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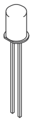

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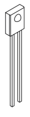

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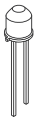

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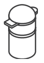

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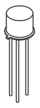

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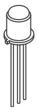

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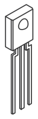


Infrared Light Emitting Diodes

Fig.	Style/ Pkg.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
Plastic										
1	T-1 3/4	750mA	0.50mW/cm2	890nm	50°	365-1060-ND	.96	.56	.54	OP294
	T-1 3/4	5.0A	44mW/cm2	890nm	20°	365-1061-ND	1.05	.62	.59	OP295A
	T-1 3/4	5.0A	77mW/cm2	890nm	20°	365-1062-ND	1.05	.62	.59	OP295B
	T-1 3/4	1.0A	0.70mW/cm2	890nm	20°	365-1063-ND	1.05	.62	.59	OP297A
	T-1 3/4	5.0A	210mW/cm2	890nm	50°	365-1056-ND	1.05	.62	.59	OP290A
	T-1 3/4	5.0A	16mW/cm2	890nm	50°	365-1057-ND	1.05	.62	.59	OP291A
	TO-46	2.0A	16mW/cm2	890nm	60°	365-1058-ND	.96	.56	.54	OP293A
	TO-46	2.0A	13mW/cm2	890nm	60°	365-1059-ND	.96	.56	.54	OP293B
	TO-46	2.0A	3.0mW/cm2	890nm	25°	365-1064-ND	.96	.56	.54	OP298A
	TO-46	2.0A	2.4mW/cm2	890nm	25°	365-1065-ND	.96	.56	.54	OP298B
	T-1	3.0A	2.70mW/cm2	890nm	18°	365-1054-ND	1.26	.74	.70	OP265A

Fig.	Style/ Pkg.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
2	Side-View	3.0A	0.60mW/cm2	890nm	40°	365-1052-ND	.99	.58	.55	OP240A
	Side-View	3.0A	0.60mW/cm2	890nm	40°	365-1053-ND	1.05	.62	.59	OP245A
	Side-View	3.0A	0.40mW/cm2	935nm	40°	365-1043-ND	.99	.58	.55	OP140A
3	Side-View	3.0A	0.30mW/cm2	935nm	40°	365-1044-ND	.99	.58	.55	OP140B
4	Side-View	3.0A	0.40mW/cm2	935nm	40°	365-1045-ND	1.02	.60	.57	OP145A
5	T-1	3.0A	1.95mW/cm2	935nm	18°	365-1046-ND	1.11	.65	.62	OP165A
	T-1	3.0A	0.85mW/cm2	935nm	18°	365-1047-ND	1.11	.65	.62	OP165C
	T-1	3.0A	1.95mW/cm2	935nm	18°	365-1049-ND	1.26	.74	.70	OP166A
6	T-1	3.0A	0.50mW	935nm	90°	365-1048-ND	1.23	.72	.69	OP165W
7	T-1	3.0A	1.00mW	890nm	90°	365-1055-ND	1.26	.74	.70	OP266W
Hermetically Sealed										
8	PC Mount	1.0A	1.00mW/cm2	935nm	24°	365-1040-ND	1.83	1.07	1.02	OP124
	PC Mount	1.0A	3.50mW/cm2	890nm	24°	365-1050-ND	2.13	1.25	1.18	OP224
9	TO-46	10.0A	4.0mW	935nm	18°	365-1041-ND	2.52	1.47	1.40	OP132
	TO-46	10.0A	5.0mW	935nm	18°	365-1042-ND	2.52	1.47	1.40	OP133
10	TO-46	10.0A	5.0mW/cm2	890nm	50°	365-1051-ND	2.88	1.68	1.60	OP233W

PIN Silicon Photodiode

Fig.	Style/ Pkg.	V_R	Peak Sensitivity Wavelength	tr/tf	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
11	T-1	60V	935nm	5ns	365-1084-ND	.66	.54	.50	OP906
12	Side-View	60V	935nm	5ns	365-1085-ND	.70	.58	.53	OP950
11	T-1 3/4	60V	890nm	5ns	365-1086-ND	.81	.67	.62	OP999

Infrared NPN Phototransistors

Fig.	Style/ Pkg.	V_{CEO}	I_C	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
Phototransistor									
13	T-1	30V	4.30mA	935nm	365-1066-ND	.59	.49	.45	OP505A
	T-1	30V	2.15mA	935nm	365-1067-ND	.59	.49	.45	OP505B
	T-1	30V	4.30mA	935nm	365-1068-ND	.75	.62	.57	OP506A
	T-1	30V	2.15mA	935nm	365-1069-ND	.75	.62	.57	OP506B
14	Side-View	30V	2.55mA	935nm	365-1070-ND	.70	.58	.53	OP550A
	Side-View	30V	1.30mA	935nm	365-1071-ND	.70	.58	.53	OP550B
	Side-View	30V	0.25mA	935nm	365-1072-ND	.70	.58	.53	OP550C
1	T-1 3/4	30V	2.35mA	890nm	365-1077-ND	.66	.54	.50	OP599A
16	PC Mount	25V	7.0mA	890nm	365-1078-ND	1.56	1.28	1.18	OP644SL
15	TO-18	30V	3.0mA	890nm	365-1074-ND	.70	.58	.53	OP593A
	TO-18	30V	7.5mA	890nm	365-1075-ND	.70	.58	.53	OP598A
	TO-18	30V	5.0mA	890nm	365-1076-ND	.70	.58	.53	OP598B
17	TO-18	30V	0.5mA	890nm	365-1079-ND	1.89	1.55	1.42	OP801WSL
	TO-18	30V	2.5mA	890nm	365-1080-ND	1.89	1.55	1.42	OP802WSL
18	TO-18	30V	7.0mA	890nm	365-1081-ND	2.16	1.77	1.62	OP804SL
	TO-18	30V	15.0mA	890nm	365-1082-ND	2.16	1.77	1.62	OP805SL
Photodarlington									
12	Side-View	15V	1.1mA	935nm	365-1073-ND	1.21	.99	.91	OP560C
17	TO-18	15V	4mA	890nm	365-1083-ND	2.31	1.89	1.74	OP830WSL

Fig.	Style/ Pkg.	Output	Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
Photologic								
19	Side-View	TTL/LSTTL	935nm	365-1115-ND	1.93	1.40	1.30	OPL550
	Side-View	TTL/LSTTL	935nm	365-1116-ND	2.04	1.48	1.37	OPL550-OCA

Panasonic Photo Interrupter

Photo Interrupters are a transmissive photosensor series in which a high efficiency GaAs infrared light emitting diode is used as the light emitting element, and a high sensitivity phototransistor is used as the light detecting element. The two elements are arranged so as to face each other, and objects passing between them are detected.

Fig. 1

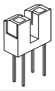


Fig. 2

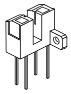
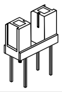


Fig. 3



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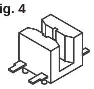

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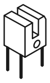


Fig. 6

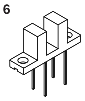


Fig. 7

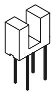


Fig. 8

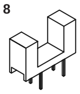


Fig. 9 Normally ON Type

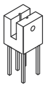


Fig. 10

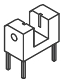


Fig.	Sensing Method	Sensing Distance	Terminal Type	Typ. t_{on}/t_{off} (μsec.)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	Slot	3mm	PC Board	5/5	CNZ1021-ND	1.39	1.16	.93	CNZ1021
2	Slot	3mm	PC Board	5/5	CNZ1023-ND	1.33	1.07	.80	CNZ1023
3	Slot	5mm	PC Board	5/5	CNA1009H-ND	1.26	1.05	.85	CNA1009H
4	Slot	1.4mm	SMD	35/35	CNA1301H-ND	.82	.69	.55	CNA1301H
5	Slot	0.9mm	PC Board	35/35	CNZ1002-ND	.87	.73	.59	CNZ1002
5	Slot	1.2mm	PC Board	35/35	CNA1303K-ND	.87	.73	.59	CNA1303K
5	Slot	2mm	PC Board	35/35	CNA1302K-ND	.87	.73	.59	CNA1302K
6	Slot	5mm	PC Board	6/6	CNZ1111-ND	2.65	2.12	1.65	CNZ1111
7	Slot	5mm	PC Board	6/6	CNZ1112-ND	2.02	1.62	1.22	CNZ1112
8	Slot	10mm	PC Board	6/6	CNZ1120-ND	1.86	1.49	1.12	CNZ1120
9	Slot	1.2mm	PC Board	3/8	CNZ1414A-ND	1.46	1.17	.88	CNZ1414A
10	Slot	1.0mm	PC Board	50/50	CNA1311K0TLC-ND	1.04	.87	.70	CNA1311K0TLC
10	Slot	2.0mm	PC Board	50/50	CNA1312K0TLC-ND	.98	.82	.66	CNA1312K0TLC

Optoisolators

Fig. 1

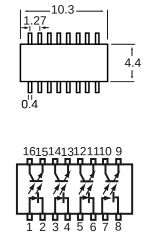


Fig. 2

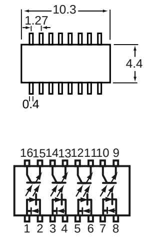


Fig. 3

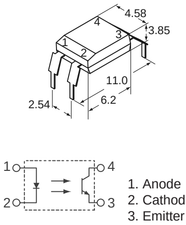


Fig.	Current Transfer Ratio Min. (%)	Max. (%)	@ IF (ma)	VCE (V)	V_{CEO}	Isolation Voltage (Vrms)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500
DC Input Type, SMD, 16-Pin												
1	100	600	50	0.2	80	2500	CNC1H001CT-ND	1.89	1.51	1.14	CNC1H001TR-ND	966.00/M
AC Input Type, SMD, 16-Pin												
2	100	600	±50	0.2	80	2500	CNC7H001CT-ND	2.10	1.68	1.26	CNC7H001TR-ND	1074.00/M
DC Input Type, HD4-1 Package												
3	50	600	50	0.2	80	5000	CNC1S171-ND	.71	.54	.40	—	—

OPTEK TECHNOLOGY, INC.

Hallogic® Hall Effect Sensors

Fig. 1

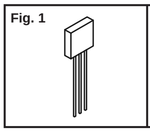


Fig. 2

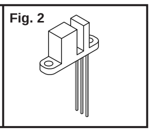


Fig.	Operate Point* Min. / Typ. / Max. (Gauss - B)	Release Point Min. / Typ. / Max. (Gauss - B)	Hysteresis Typ. / Max. (Gauss - B)	Supply Cur. Typ. / Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
1	0 / 90 / 180	-100 / 65 / 100	25 - 100	6 / 9	365-1001-ND	2.16	1.26	1.20	OH090U
	70 / — / 200	50 / — / 180	20	4 / 7	365-1003-ND	2.31	1.35	1.28	OHS3140U
	235/300/465	120/235/325	30/65/200	6/9	365-1036-ND	1.74	1.02	.97	OH360U
	70/—/350	50/—/330	20/—/—	4/7	365-1037-ND	1.47	.86	.82	OHN3120U

Fig.	Output Current (mA)	Output DC Voltage	Output Rise Typ. / Max.	Ouput Fall Time Typ. / Max.	Supply Current Typ. / Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
2	25	25	0.21 / 1.00 µs	0.25 / 1.00 µs	4 - 7	365-1002-ND	6.72	3.92	3.72	OHB900

Latching

Fig.	Operate Point* Min. / Max. (Gauss - B)	Release Point Min. / Max. (Gauss - B)	Hysteresis Min./ Max. (Gauss - B)	Supply Cur. Typ. / Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	Optek Part No.
1	25/170	-170/-25	100/—	4/7	365-1039-ND	2.34	1.37	1.30	OHS3175U

* South pole facing symbolized surface.

MICRONAS Hall Effect Sensor

FEATURES: On-Chip temperature compensation circuitry minimizes shifts in ON and OFF points and hysteresis over temperature and supply voltage. Ideal sensors for ignition timing, anti-lock brake systems, speed measurement, angular and linear measurement/positioning. Designed for use in hostile automotive and industrial environments.

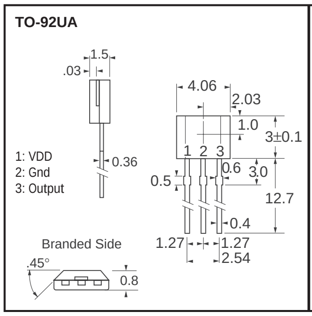
SWITCHING SPECIFICATIONS:

Bipolar: Output turns low with magnetic south to branded side of package (open drain). **Unipolar:** Output turns low with magnetic south to branded side of package, output turns high if magnetic field is removed.

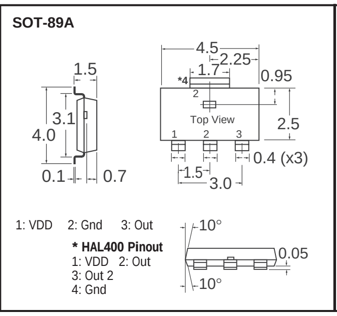
Latching: Output turns low with magnetic south to branded side of package, output does not change states when magnetic field is removed.

Differential: Output determined by magnetic south pole flux density between 2 internal sensors, output low with B_{S1}-B_{S2}>B_{on}, output high with B_{S1}-B_{S2}<B_{off}.

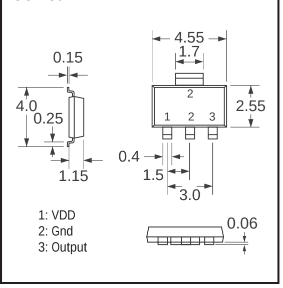
TO-92UA



SOT-89A



SOT-89B



Switch Mode	Switch Frequency	Supply Voltage	Cont.Output Current	On/Off (Max./Min.) Point B mT	Digi-Key Part No.	Price Each 1	10	100	500	Micronas Part No.
TO-92UA										
Differential		4.5-24V		3.0/-3.0	HAL300UA-E-ND	1.95	1.76	1.41	1.17	HAL300UA-E

Switch Mode	Switch Frequency	Supply Voltage	Cont. Output Current	On/Off (Max./Min.) Point B mT	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Pricing 1,000	Micronas Part No.
SOT-89A											
Unipolar	DC-20kHz	4.5-24V	10 mA	36.0/4.3	HAL214S-ECT-ND	2.76	2.48	1.99	HAL214S-ETR-ND	742.00	HAL214S-E
Latching	DC-10kHz	3.8-24V		10.8/-10.8	HAL503S-ECT-ND	3.54	3.19	2.55	HAL503S-ETR-ND	952.00	HAL503S-E
Latching	DC-10kHz	3.8-24V		18.3/-18.3	HAL505S-ECT-ND	3.54	3.19	2.55	—	—	HAL505S-E
Differential	DC-10kHz	4.5-24V		3.0/-3.0	HAL300S-ECT-ND	4.06	3.65	2.92	HAL300S-ETR-ND	1092.00	HAL300S-E
SOT-89B											
Bipolar	DC-20kHz	4.5-24V	10 mA	12.5/-12.5	HAL115SF-ECT-ND	1.30	1.17	.94	—	—	HAL115SF-E
Unipolar	DC-20kHz	4.5-24V		36.0/3.6	HAL114SF-ECT-ND	1.30	1.17	.94	—	—	HAL114SF-E
Differential	DC-10kHz	4.5-24V		3.5/-3.5	HAL320SF-ECT-ND	3.85	3.47	2.77	HAL320SF-ETR-ND	1036.00	HAL320SF-E
Latching	DC-10kHz	3.8-24V		5.0/-5.0	HAL502SF-ECT-ND	1.67	1.50	1.20	—	—	HAL502SF-E

HAL115DS-ND	Data Sheet for HAL115	**$2.60**
HAL300DS-ND	Data Sheet for HAL300	**$2.60**

CHERRY

Solid State Magnetic Hall Effect Sensors

Cherry magnetic sensors are used to detect changes in magnetic field polarities and the motion of ferrous metals such as gear tooth movements. Used for such applications as speed and proximity sensing, magnetic polarity detection and current flow monitoring. Solid state design for unlimited life.

Features:

HE313500: Magnetically biased bipolar digital latch. Extreme sensitivity. Internal transistor switches on when exposed to south pole and remains on until north pole magnetic field is introduced.

MP100 Series: Aluminum threaded barrel sensor for speed and position sensing. The threaded barrel allows precise positioning and adjustment.

GS100 Series: Barrel sensors intended for gear tooth speed sensing. High speed capability, ideal for sensing power gears, conveyer speed and other rotating gears. Built-in magnet supplies its own bias field. GS101202 is plastic housing with steel bushing.

Fig. 1

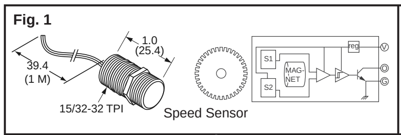


Fig. 2

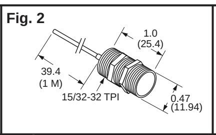


Fig. 3

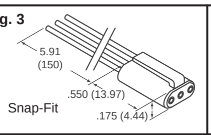


Fig. 4

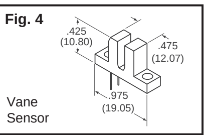
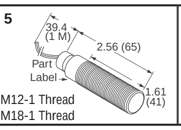


Fig. 5



5A = M12-1 Thread
5B = M18-1 Thread

Fig. 6

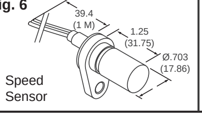


Fig. 7

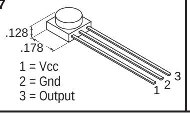


Fig. 8

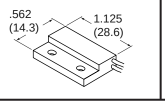


Fig. 9

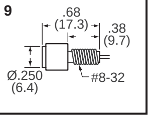


Fig.	Supply Voltage	Output Current	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	10	50	100	Cherry Part No.
1	4.5-24 VDC	25mA	20AWG Wires	Gear Teeth	CH398-ND†	30.24	26.88	21.06	18.60	GS100701
2	4.75-24 VDC	25mA	20AWG Wires	South Pole	CH396-ND†	24.44	21.72	17.02	15.03	MP100701
	4.75-24 VDC		20AWG Wires		CH708-ND†	24.44	21.72	18.10	17.01	MP100502
	5-24 VDC		22AWG Wires		CH707-ND*	36.18	32.16	26.80	25.19	MP100102
3	4.75-24 VDC	25mA	24AWG Wires	South Pole	CH399-ND	6.08	5.40	4.50	4.23	MP101301
4	4.5-24 VDC	25mA	PC Mount	Ferrous Vane	CH401-ND	5.08	4.52	3.76	3.54	VN101501
			24AWG Wires		CH712-ND	7.29	6.48	5.40	5.08	VN101503
5A	4.5-24 VDC	25mA	12mm conn.	Gear Teeth	CH704-ND*	55.62	49.44	41.20	38.74	GS100101
			20AWG Wires		CH416-ND†	30.24	26.88	22.40	21.06	GS100502
			22AWG Wires		CH414-ND*	54.00	48.00	40.00	37.60	GS100102
5B	4.5-24 VDC	25mA	12mm conn.	Gear Teeth	CH705-ND*	58.86	52.32	43.60	40.99	GS100201
	4.5-24 VDC	25mA	22AWG Wires		CH415-ND*	57.24	50.88	42.40	39.86	GS100202
	4.75-24 VDC	25mA	12mm conn.		CH711-ND*	77.63	69.00	57.50	54.05	SD100201
	5-24 VDC	—	20AWG Wires		CH706-ND*	52.92	47.04	39.20	36.85	GS100203
6	5-24 VDC	25mA	22AWG Wires	Gear Teeth	CH417-ND	32.29	28.71	23.92	22.49	GS101202
7	4.5-24 VDC	20mA	PC Mount	South Pole	CH395-ND	4.19	3.72	2.91	2.57	HE31-3500
8	4.5-24 VDC	25mA	24AWG Wires	North Pole	CH400-ND	6.89	6.12	5.10	4.80	MP102103
—	12mm Cord Set - straight female				CH698-ND	29.03	25.80	21.50	20.21	AS000203
9	Threaded Actuator, South pole magnet, Aluminum Housed				CH700-ND	5.13	4.56	3.80	3.57	AS101001

* Industrial Grade-Stainless Steel † Commercial Grade Aluminum

Melexis
Microelectronic Integrated Systems

Hall Effect Sensor ICs — US Series

The output transistor of the UA package will be latched on in the presence of a sufficiently strong **south** pole magnetic field facing the marked side of the package. Similarly, the output will be latched off in the presence of a **north** field. The SOT-23 device is reversed from the UA package. The SOT-23 output transistor will be latched on in the presence of a sufficiently strong **north** pole magnetic field subjected to the marked face.

FEATURES: • Maximum Output Current: 50mA • Chopper stabilized amplifier stage • New miniature package/thin, high reliability package

Temperature Suffix: **E:** -40°C to 85°C (Commercial), **L:** -40°C to 150°C (Automotive)

US1881: A bipolar Hall Effect Sensor IC fabricated from mixed signal CMOS technology. The design, specifications and performance have been optimized for commutation applications in 5V and 12V brushless DC motors. **Feature:** • Optimized for BDC motor applications **Applications:** • Solid state switch • Brushless DC motor commutation • Speed sensing • Linear position sensing • Angular position sensing • Current sensing

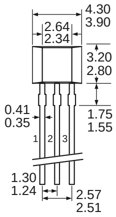
US2881 / US2882: The bipolar design, specifications and performance have been optimized for commutation applications in brushless DC motors and automotive speed sensing. **Features:** • Optimized for BDC motor applications • Ultra low current. **Applications:** • Solid state switch • Brushless DC motor commutation • Speed sensing • Linear position sensing • Angular position sensing • Current sensing

US4881: A bipolar Hall Effect Sensor IC fabricated from mixed signal CMOS technology. The design, specifications and performance have been optimized for commutation applications in brushless DC motors and automotive speed sensing. **Feature:** • Optimized for BDC motor applications. **Applications:** • Solid state switch • Brushless DC motor commutation • Speed sensing

US5881: A unipolar Hall Effect Sensor IC fabricated from mixed signal CMOS technology. The design, specifications and performance have been optimized for applications of solid state switches. **Applications:** • Solid state switch • Limit switch • Current limit • Interrupter • Current sensing

UA-92 (Flat)

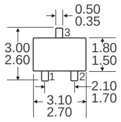
Front View



1: VDD
2: GND
3: Output

SOT-23

Top View

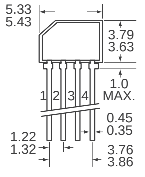


1: VDD
2: Output
3: GND

Pkg.	Supply Voltage	Operating Point (mT) Min.	Operating Point (mT) Typ.	Operating Point (mT) Max.	Release Point (mT) Min.	Release Point (mT) Typ.	Release Point (mT) Max.	Output Type	Oper.† Type	Temperature Range	Digi-Key Part No.	Price Each 1	10	25	50	100	Tape & Reel * Pricing 3,000
SOT-23	3.5 to 24	1.0	5.0	9.0	-9.0	-5.0	-1.0	Open Collector	Bidirectional	-40°C to 85°C	US1881ESOCT-ND*	1.60	1.24	.96	.74	.57	424.60/M
UA-92(flat)											US1881EUA-ND	1.16	.90	.70	.54	.42	—
SOT-23										-40°C to 150°C	US1881LSOCT-ND*	1.89	1.47	1.13	.87	.67	501.80/M
UA-92(flat)											US1881LUA-ND	1.52	1.19	.91	.70	.54	—
SOT-23	3.5 to 24	0.5	2.0	4.5	-4.5	-2	-0.5	Open Collector	Bidirectional	-40°C to 85°C	US2881ESOCT-ND*	2.03	1.58	1.21	.93	.72	540.40/M
UA-92(flat)											US2881EUA-ND	1.67	1.30	1.00	.77	.60	—
SOT-23										-40°C to 150°C	US2881LSOCT-ND*	2.32	1.80	1.39	1.07	.83	617.60/M
UA-92(flat)											US2881LUA-ND	2.03	1.58	1.21	.93	.72	—
SOT-23	3.5 to 24	-2.0	2.0	6.0	-6.0	-2.0	2.0	Open Collector	Bidirectional	-40°C to 85°C	US2882ESOCT-ND*	1.60	1.24	.96	.74	.57	424.60/M
UA-92(flat)											US2882EUA-ND	1.38	1.07	.83	.64	.49	—
SOT-23										-40°C to 150°C	US2882LSOCT-ND*	1.81	1.41	1.08	.83	.65	482.50/M
UA-92(flat)											US2882LUA-ND	1.60	1.24	.96	.74	.57	—
UA-92(flat)	2.2 to 18	0.5	2.0	4.5	-4.5	-2	-0.5	Open Collector	Bidirectional	-40°C to 85°C	US4881EUA-ND	1.67	1.30	1.00	.77	.60	—
										-40°C to 150°C	US4881LUA-ND	2.03	1.58	1.21	.93	.72	—
SOT-23	3.5 to 24	15	23	30	9.5	19	28	Open Collector	Unidirectional	-40°C to 85°C	US5881ESOCT-ND*	1.96	1.52	1.17	.90	.70	521.10/M
UA-92(flat)											US5881EUA-ND	1.67	1.30	1.00	.77	.60	—
SOT-23										-40°C to 150°C	US5881LSOCT-ND*	2.25	1.75	1.34	1.03	.80	598.30/M
UA-92(flat)											US5881LUA-ND	1.96	1.52	1.17	.90	.70	—

***** For Tape and Reel Part Number, change CT-ND to TR-ND   † Unidirectional and is only sensitive to either north or south side of magnetic; Bidirectional is sensitive to an alternating magnetic fields of both north and south sides.

Programmable Linear Hall ICs



1: VDD 2: Test/Readback
3: GND 4: Output

MLX90215: Programmable Linear Hall Effect sensor IC fabricated utilizing silicon-CMOS technology. It possesses active error correction circuitry which virtually eliminates the offset errors normally associated with analog Hall Effect devices. All magnetic response functions of the MLX90215 are fully programmable for even greater versatility. The V_{OQ} (V_{OUT}@ B=0), sensitivity, direction of slope and the magnitude of sensitivity drift over temperature, are all programmable.

The ratiometric output voltage is proportional to the supply voltage. When programmed for a conventional sensitivity (with a positive gain), the voltage at the ouput will increase as a **south** magnetic field is applied to the branded face of the MLX90215. Conversely, the voltage output will decrease in the presence of a **north** magnetic field.

Features: • Programmable Linear Hall IC • Quad Switched / Chopper Stabilized • Ratiometric Output for A/D Interface • Adjustable Quiescent Voltage (V_{OQ}) • Very Low Quiescent Voltage Temperature Drift • Adjustable Sensitivity • Adjustable Temperature Compensation of Sensitivity

Temperature Suffix: **E:** -40°C to 85°C (Commercial),
L: -40°C to 150°C (Automotive)

PTC-01: This programmer was designed for efficient and precise calibration of the Melexis family of programmable ICs. The programmer is designed to be easily adapted to a standard PC to allow calibration of programmable sensor ICs within the operating environment. The PTC-01 programmer contains its own programmable power supply and measurement circuitry. Similar to a standard EEPROM programmer, but adds special features such as 16 bit voltage and current measurement capability, and a configuration options that will accommodate users from the prototyping phase directly into production. An IBM compatible PC is required (not included) to load software to the programmer and control the functions of the programmer. DOS and Windows platforms are available, as well as source code and firmware. Communication is done through a standard RS-232 null modem cable to a COM port of the PC. The PC requires no custom configuration, allowing the programmer to be used with any PC with a COM port speed of 19.2kbs or better

Features: • RS-232 serial interface • 16-bit voltage measurement • 12-bit voltage adjustment • Compact design • Internal or external supply voltage • 4 lead SIP (50mil) • RJ45 External Connector • High-level functions in firmware

PC Requirements: Requires a PC capable of RS-232 serial communications of 19200 baud. The minimum PC requirements include a 486 or higher processor with 8MB or RAM and 4MB of available disk space.

Note: The Melexis supplied software may have additional PC requirements.

Description	Temperature Range	Pkg.	Digi-Key Part No.	Price Each 1	10	25	50
Precision Programmable Linear Hall IC	-40° to 85°C	4-SIP(VA)	MLX90215EVA-ND	7.75	5.96	4.59	3.54
Precision Programmable Linear Hall IC	-40° to 150°C	4-SIP(VA)	MLX90215LVA-ND	9.74	7.48	5.77	4.44
Precision Programmed Linear Hall IC, 10MV/MT 2.5V			MLX90215LVA-BC03-ND	12.19	9.47	7.34	5.67
Precision Programmed Linear Hall IC, 20MV/MT 2.5V			MLX90215LVA-CC03-ND	12.19	9.47	7.34	5.67
Precision Programmed Linear Hall IC, 50MV/MT 2.5V			MLX90215LVA-GC03-ND	12.19	9.47	7.34	5.67
Precision Programmed Linear Hall IC, 100MV/MT 1V			MLX90215LVA-LA03-ND	12.19	9.47	7.34	5.67
Precision Programmed Linear Hall IC, 100MV/MT 2.5V			MLX90215LVA-LC03-ND	12.19	9.47	7.34	5.67
Programmer for Melexis PTC devices. Programmable Infrared and Hall Sensors. (Includes Programmer Console, Power Supply, Serial Interface Cable, Software, Reference Magnet)	—	—	PTC-01-ND	750.00	—	—	—

Panasonic®

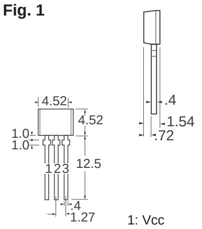
Hall Effect Sensor ICs

Panasonic's Hall IC is a combination of a Hall element, amplifier, Schmidt circuit, and stabilized power supply/temperature compensator integrated on an identical chip by using the IC technology. It amplifies Hall element output at the amplifier, converts into a digital signal through the Schmidt circuit, and drives the TTL or MOS IC directly.

Features: • Stable temperature characteristics due to the additional temperature compensator • TTL and MOS ICs directly drivable by output • Semipermanent service life due to no contact parts • Small change of the operating flux density against mechanical stress • Provided with the output pull-up resistors (typ 27kΩ or open collector output (see chart) • Operating Temperature:-40°C to 100°C (-40°C to 85°C for DN6851 - DN6853) • Supply Current Max: 6mA • Output Circuit Max: 20mA

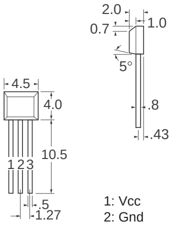
Applications: • Speed Sensors • Position Sensors • Rotation Sensors • Keyboard Switches • Microswitches

Fig. 1



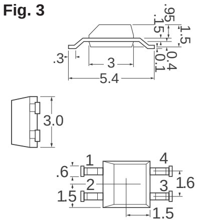
1: Vcc
2: Gnd
3: Output

Fig. 2



1: Vcc
2: Gnd
3: Output

Fig. 3



1: Vcc
2: Gnd
3: Output
4: Gnd

Fig.	Supply Voltage Range (V)	Oper.** Flux Density (Gauss) (L-H)	(H-L)	Output* Type	Oper.† Type	Pkg.	Digi-Key Part No.	Price Each 1	10	100
1	4.5 – 16	-175	175	Pullup	Bidirectional	3-Sip	DN6847SE-ND	1.68	1.35	1.01
2	4.5 – 16	5	220	0C	Unidirectional	3-Sip	DN6848-ND	1.04	.87	.70
3	4.5 – 16	5	220	0C	Unidirectional	SOH-4D	DN6848S-ND	1.04	.87	.70
2	4.5 – 16	-175	175	0C	Bidirectional	3-Sip	DN6849-ND	1.69	1.36	1.02
3	4.5 – 16	-175	175	0C	Bidirectional	SOH-4D	DN6849S-ND	1.69	1.36	1.02
1	4.5 – 16	-175	175	0C	Bidirectional	3-Sip	DN6849SE-ND	1.69	1.36	1.02
2	3.6 – 16	-200	200	Pullup	Bidirectional	3-Sip	DN6851-A-ND	.90	.76	.61
2	3.6 – 16	100	450	0C	Unidirectional	3-Sip	DN6852-A-ND	1.04	.87	.70
2	3.6 – 16	-200	200	0C	Bidirectional	3-Sip	DN6853-A-ND	1.35	1.13	.91
2	4.5 – 16	-120	120	Pullup	Bidirectional	3-Sip	DN8897-ND	1.69	1.36	1.02
2	4.5 – 16	-120	120	0C	Bidirectional	3-Sip	DN8899-ND	1.69	1.36	1.02

* Output Type: Pull-up Resistors = 27K Internal; 0C = open collector. ** To convert Gauss to millitesla, divide by 10
† Unidirectional and is only sensitive to either north or southside of magnetic; Bidirectional is sensitive to an alternating magnetic fields of both north and south sides.

Panasonic Infrared Photosensors

Fig. 1

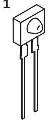


Fig. 2

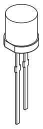


Fig. 3

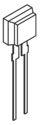


Fig. 4

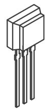


Fig. 5

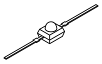


Fig. 6

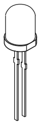


Fig. 7

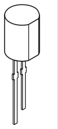


Fig. 8

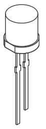


Fig. 9

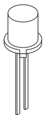


Fig. 10

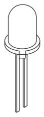


Fig. 11

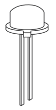


Fig. 12

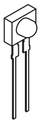


Fig. 13

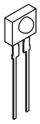


Fig. 14

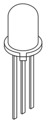


Fig. 15

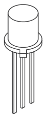


Fig. 16

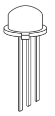


Fig. 17

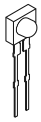


Fig. 18

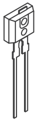


Fig. 19

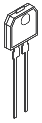
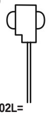


Fig. 20



*LNA2702L=
Long Leads

Fig. 21

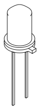


Fig. 22

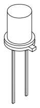


Fig. 23

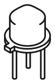


Fig. 24

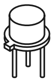
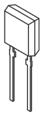


Fig. 25

Fig. 26



Infrared Light Emitting Diode

Style/ Pkg.	Fig.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Pricing			Panasonic Part No.
							1	10	100	
Side View	1	1A	4.6mW	950nm	17°	LN54PA-ND	1.00	8.37	66.96	LN54
Top View	2	1.5A	7mW	950nm	45°	LN64PA-ND	.91	7.56	60.48	LN64
T-1 3/4	6	1.5A	3-8mW	950nm	25°	LN660000R-ND	.95	7.13	53.46	LN660000R
Side View	3	2A	12mW	900nm	115°	LN175PA-ND	1.81	14.47	108.54	LN175
T-1 3/4	6	1.5A	10mW/sr	950nm	20°	LNA2904L-ND	.89	7.42	59.33	LNA2904L
TO-18 Flat	9	2A	3-6mW	950nm	32°	LN51F-ND	3.63	29.02	225.70	LN51F
TO-18	10	2A	3-6mW	950nm	8°	LN51L-ND	3.63	29.02	225.70	LN51L
TO-18 Small	11	2A	3.5-6mW	950nm	100°	LN52-ND	3.05	24.38	189.59	LN52
Side View	12	1A	1.8-3.5mW	950nm	35°	LN55-ND	.97	8.06	64.49	LN55
Axial	5	1A	3-4.5mW	950nm	18°	LNA2W01L-ND	1.35	11.29	90.28	LNA2W01L
Side View	13	1A	1.8-3.5mW	950nm	35°	LN58-ND	.97	8.06	64.49	LN58
Side View x2	20	1A	1.8mW	950nm	23°	LN59-ND	1.10	9.13	73.01	LN59
Side View x2	20	1A	1.8mW	950nm	23°	LNA2702L-ND*	1.01	8.40	67.18	LNA2702L
Side View x2	20	1A	1.2mW/sr	940nm	23°	LNA2701L-ND	1.32	10.96	87.70	LNA2701L
T-1 3/4	6	1.5A	9mW/sr	950nm	25°	LNA2903L-ND	.45	3.61	27.08	LNA2903L
T-1	6	1A	2.5-5mW	950nm	20°	LNA2802L-ND	.45	3.61	27.08	LNA2802L
T-1 3/4	6	1A	10-18mW	860nm	20°	LN77L-ND	1.45	11.61	87.06	LN77L
Side View	13	1A	6-10mW	880nm	40°	LN78-ND	5.37	42.95	334.04	LN78
T-1	6	1A	6mW/sr	940nm	15°	LNA2801L-ND	.67	5.03	37.73	LNA2801L
Side View	3	1.5A	3-6mW	940nm	80°	LNA2603F-ND	1.27	10.12	75.90	LNA2603F
Side View	12	1.5A	4.3-5.5mW	950nm	35°	LN65-ND	1.29	10.34	77.52	LN65
T-1 3/4	6	1.5A	13mW/sr	950nm	15°	LN66F-ND	.61	4.60	34.52	LN66F
TO-18 Small	11	1.5A	5-10mW	950nm	90°	LN152-ND	2.13	17.74	141.91	LN152

Pin Photo Diode

Style/ Pkg.	Fig.	V_R	Peak Sensitivity Wavelength	tr/tf	Beam Angle	Digi-Key Part No.	Pricing			Panasonic Part No.
							1	10	100	
Side View	7	30V	960nm	50ns	70°	PNZ323B-ND	.91	7.56	60.48	PNZ323B
Top View	8	50V	900nm	2ns	70°	PNZ334-ND	1.46	12.15	97.20	PNZ334
TO-18 Small	11	30V	850nm	2ns	70°	PNZ330CL-ND	2.99	23.90	185.91	PNZ330CL
Side View	3	30V	850nm	2ns	70°	PNZ335-ND	1.26	10.12	75.88	PNZ335
TO-18	21	50V	800nm	1ns	10°	PNZ300-ND	6.14	49.10	414.27	PNZ300
TO-18	22	50V	800nm	1ns	40°	PNZ300F-ND	6.14	49.10	414.27	PNZ300F
TO-18	23	30V	900nm	2ns	70°	PNZ331CL-ND	3.66	29.31	227.95	PNZ331CL
TO-18	24	30V	900nm	—	40°	PNZ331F-ND	7.11	56.85	479.68	PNZ331F
Side View	26	30V	960nm	50ns	65°	PNZ313B-ND	1.65	13.18	98.82	PNZ313B

NPN Photo Transistor

Style/ Pkg.	Fig.	V_{CEO}	I_C	Peak Sensitivity Wavelength	tr/tf	Digi-Key Part No.	Pricing			Panasonic Part No.
							1	10	100	
Side View	4	20V	10mA	900nm	8µs	PNA1605F-ND	1.51	12.10	90.72	PNA1605F
Axial	5	20V	20mA	800nm	2.5/3.5µs	PNZ12700S-ND	1.20	9.99	79.92	PNZ12700S
Side View	1	20V	20mA	800nm	4µs	PNZ154-ND	1.39	11.61	92.88	PNZ154
T-1	6	30V	20mA	800nm	4µs	PNA1801L-ND	.65	4.86	36.45	PNA1801L
TO-18	10	30V	50mA	800nm	3µs	PNA1401L-ND	3.56	28.46	221.32	PNA1401L
TO-18 Flat	9	30V	50mA	800nm	3µs	PNA1401LF-ND	3.56	28.46	221.32	PNA1401LF
TO-18	14	40V†	50mA	800nm	3µs	PNZ102-ND	3.56	28.46	221.32	PNZ102
TO-18 Flat	15	30V†	50mA	800nm	3µs	PNZ102F-ND	3.56	28.46	221.32	PNZ102F
TO-18	14	30V†	30mA	900nm	5/6µs	PNZ108-ND	3.56	28.46	221.32	PNZ108
TO-18 Flat	15	30V†	30mA	900nm	8/9µs	PNZ108F-ND	3.56	28.46	221.32	PNZ108F
TO-18 Small	16	30V†	20mA	900nm	5/6µs	PN108CL-ND	2.99	23.90	185.91	PN108CL
TO-18 Flat	15	30V†	30mA	900nm	8/9µs	PNZ109F-ND	3.56	28.46	221.32	PNZ109F
TO-18 Small	16	30V†	20mA	900nm	5/6µs	PNZ109CL-ND	2.99	23.90	185.91	PNZ109CL
TO-18	14	30V†	30mA	900nm	5/6µs	PNZ109L-ND	3.56	28.46	221.32	PNZ109L
Axial	5	20V	20mA	800nm	3-10µs	PNZ147-ND	1.58	12.65	94.85	PNZ147
Side View	12	20V	20mA	800nm	4-10µs	PNZ150-ND	1.06	8.85	70.82	PNZ150
Side View	17	20V	20mA	800nm	4µs	PNA1608L-ND	1.06	8.85	70.82	PNA1608L
Side View	3	20V	10mA	800nm	4µs	PNZ155-ND	1.25	10.43	83.47	PNZ155
Side View	13	20V	20mA	800nm	4-10µs	PNZ158-ND	1.06	8.85	70.82	PNZ158
Side View	18	20V	20mA	850nm	4µs	PNZ163NC-ND	1.06	8.85	70.82	PNZ163NC
Side View	19	20V	20mA	850nm	4µs	PNA1601M-ND	1.06	8.85	70.82	PNA1601M
Side View	12	20V	30mA	800nm	100µs	PNA2602M-ND‡	1.14	9.49	75.88	PNA2602M
Side View	17	20V	30mA	850nm	150µs	PNA2602M00NC-ND‡	1.14	9.49	75.88	PNA2602M00NC
Axial	5	20V	30mA	800nm	200µs	PNA2W01M-ND‡	1.58	12.65	94.85	PNA2W01M
Side View	13	20V	30mA	800nm	100µs	PNA2603L-ND‡	1.14	9.49	75.88	PNA2603L
Side View	18	20V	30mA	850nm	150µs	PNZ263L000NC-ND‡	1.14	9.49	75.88	PNZ263L000NC
T-1	6	20V	30mA	850nm	150µs	PNA2803M-ND‡	.91	6.83	51.22	PNA2803M
T-1	25	30V	20mA	800nm	3µs	PNZ120S0RL-ND	1.41	11.75	93.96	PNZ120S0RL
T-1	25	20V	10mA	800nm	1/1.3µs	PNZ121S0R-ND	1.24	10.37	82.94	PNZ121S0R
T-1	25	30V	20mA	800nm	3µs	PNZ120S0SL-ND	1.25	10.02	75.17	PNZ120S0SL
T-1	25	20V	10mA	800nm	1/1.3µs	PNZ121S0S-ND	1.33	11.04	88.34	PNZ121S0S

† VCBO (This device has signal mixing capability using the base pin.) ‡ Darlington

Reflective Photosensors

Reflective Photosensors consist of a high efficiency GaAs infrared light emitting diode which is integrated with a high sensitivity phototransistor in a single resin package.

Features:
• Reflow-compatible reflective photosensor • Ultraminiature thin type: 2.7 x 3.4 mm (height: 1.5 mm) • Visible light cutoff resin is used • CNB10010RL, CNB10010SL, CNB13020R and ON2180 has Si phototransistor • CNB20010RL has Darlington phototransistor / High current transfer ratio • Reflective Sensing method; 1mm Sensing distance

Fig. 1

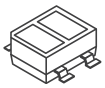


Fig. 2

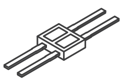


Fig.	Rank	IC (µA)	Typ. t on/ t off (µsec.)	Input V_R	Input I_F	Output I_C	Output V_{CEO}	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000
									1	10	100	500		
1	R	41~90	30/40	6V	50mA	20mA	35V	CNB10010RLCT-ND	.99	.83	.66	.46	CNB10010RLTR-ND	437.00
	S	74~160	30/40	6V	50mA	20mA	35V	CNB10010SLCT-ND	.98	.83	.66	.46	CNB10010SLTR-ND	437.00
	R	1.45~5.4	120/115	6V	50mA	30mA	35V	CNB20010RLCT-ND	1.02	.85	.68	.48	CNB20010RLTR-ND	451.00
2	R	180~440	20/20	3V	50mA	20mA	30V	CNB13020R-ND *NEW!*	.95	.72	.54	.34	—	—
	—	90~880	20/20	3V	50mA	20mA	30V	CNB1303-ND	1.02	.85	.68	.48	—	—

Bipolar Integrated Circuit with Photodetection Function

FEATURES:

PNA4602M/PNA4701M Series *(For infrared remote control systems.)*
• Extension distance is 8 m or more • External parts not required • Adoption of visible light cutoff resin

PNA4611M Series *(For infrared remote control systems.)*
• High sensitivity (extension distance is 11 m or more) • External parts not required • Resin to cutoff visible light is used

PNA4603H Series *(For brightness control systems.)*
• Wavelength characteristics close to human visual sensitivity • External parts not required • Good output voltage linearity with respect to incident illuminance

Fig. 1

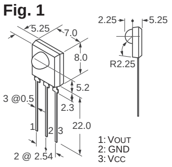


Fig. 2

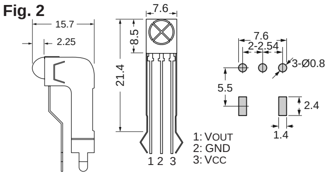


Fig. 3

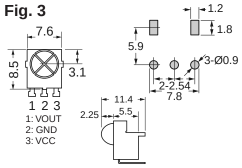
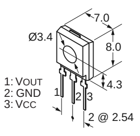


Fig. 4



PNA4603H Series Main Characteristics

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Supply Voltage	V_{CC}	—	4.5	5.0	5.5	V
Current Consumption	I_{CC}	V_{CC} = 5.25V	0.5	1.0	1.5	mA
Output Voltage	V_{OFF}	L = 0 lx, V_{CC} = 5.0V	0.1	0.5	0.8	V
	V_{01}	L = 10 lx, V_{CC} = 5.0V*	2.0	2.7	3.4	V
	V_{02}	L = 800 lx, V_{CC} = 5.0V*	3.9	4.1	4.9	V
	η	V_{01}-V_{OFF}, V_{CC} = 5.0V	1.65	1.9	4.9	V
Output Impedance	Z	—	—	10	—	kΩ
Peak Sensitivity Wavelength	λ_p	—	—	540	—	nm

* Halogen lamp light source.

Fig.	Operating Supply Voltage Typ. (V)	Current Consumption Typ. (mA)	Max. Recep. Distance (m) min.	Max. Recep. Distance (m) Typ.	Carrier Frequency Typ. (kHz)	Digi-Key Part No.	Pricing			Panasonic Part No.
							1	10	100	
1	5.0	2.4	8	10	38.0	PNA4602M-ND	1.28	10.21	76.58	PNA4602M
	3.3	0.8	7.0	—	36.7	PNA4701M-ND	1.47	11.75	88.13	PNA4701M
2	5.0	2.4	11	16	36.7	PNA4611M00YB-ND	1.43	11.46	85.98	PNA4611M00YB
	5.0	2.4	11	16	38.0	PNA4612M00YB-ND	1.43	11.46	85.98	PNA4612M00YB
	5.0	2.4	11	16	40.0	PNA4613M00YB-ND	1.43	11.46	85.98	PNA4613M00YB
	5.0	2.4	11	16	56.9	PNA4614M00YB-ND	1.43	11.46	85.98	PNA4614M00YB
3	5.0	2.4	11	16	36.7	PNA4611M00XD-ND	1.43	11.46	85.98	PNA4611M00XD
	5.0	2.4	11	16	38.0	PNA4612M00XD-ND	1.43	11.46	85.98	PNA4612M00XD
	5.0	2.4	11	16	40.0	PNA4613M00XD-ND	1.43	11.46	85.98	PNA4613M00XD
	5.0	2.4	11	16	56.9	PNA4614M00XD-ND	1.43	11.46	85.98	PNA4614M00XD
4	See PNA4603A Main Characteristics Chart					PNA4603H-ND	3.16	25.31	196.86	PNA4603H

SenSym ICT **Solid State Pressure Sensors**

For use in medical equipment, pneumatic controls, computer peripherals and pressure instrumentation, process and flow control.

Fig. 1 — Sensor AMP

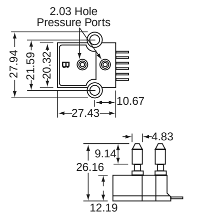


Fig. 2 — SDX A4, D4, IND4

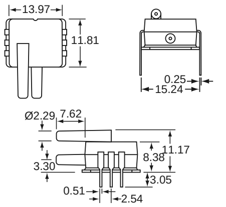


Fig. 3 — SDX A2/G2/D2

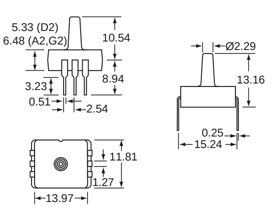
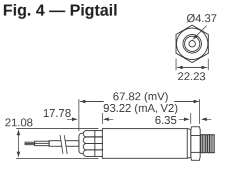


Fig. 4 — Pigtail



Note: 4-Conductor Cable. 24 AWG conductors shielded with drain wire 24" (61cm) long.

Fig. 5 — Button Sensor

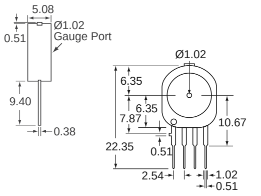


Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Operating Temperature	Digi-Key Part No.	Price Each			SenSym ICT Part No.
									1	25	100	
Signal Conditioned Pressure Sensors												
1	0-1 PSID	Differential/Gage	0.25 to 4.5V	SIP	+4.5 to +16	100µSec	-25°C to +105°C	287-1002-ND	56.79	40.72	32.74	ASCX01DN
	0-5 PSID	Differential/Gage						287-1003-ND	56.79	40.72	32.74	ASCX05DN
	0-15 PSIA	Absolute						287-1008-ND	56.79	40.72	32.27	ASCX15AN
	0-15 PSID	Differential/Gage						287-1009-ND	56.79	40.72	32.74	ASCX15DN
	0-30 PSIA	Absolute						287-1010-ND	56.79	40.72	32.27	ASCX30AN
	0-30 PSID	Differential/Gage						287-1011-ND	56.79	40.72	32.27	ASCX30DN
	0-100 PSIA	Absolute						287-1004-ND	56.79	40.72	32.74	ASCX100AN
	0-100 PSID	Differential/Gage						287-1005-ND	56.79	40.72	32.74	ASCX100DN
	0-150 PSIA	Absolute						287-1006-ND	56.79	40.72	32.74	ASCX150AN
	0-150 PSID	Differential/Gage						287-1007-ND	56.79	40.72	32.74	ASCX150DN
Precision Compensated Pressure Sensors												
1	0-1 PSID	Differential/Gage	0-18mV	SIP	+20	100µSec	-40°C to +85°C	287-1017-ND	41.82	27.66	26.40	SCX01DN
	0-5 PSID	Differential/Gage	0-60mV		+20	100µSec	-40°C to +85°C	287-1018-ND	41.62	29.52	26.40	SCX05DN
	0-15 PSIA	Absolute	0-90mV		+20	100µSec	-40°C to +85°C	287-1023-ND	41.62	29.52	26.40	SCX15AN
	0-15 PSID	Differential/Gage	0-90mV		+20	100µSec	-40°C to +85°C	287-1024-ND	41.62	29.52	26.40	SCX15DN
	0-30 PSIA	Absolute	0-90mV		+20	100µSec	-40°C to +85°C	287-1025-ND	41.62	29.52	26.40	SCX30AN
	0-30 PSID	Differential/Gage	0-90mV		+20	100µSec	-40°C to +85°C	287-1026-ND	41.62	29.52	26.40	SCX30DN
	0-100 PSIA	Absolute	0-100mV		+20	100µSec	-40°C to +85°C	287-1019-ND	41.82	27.66	26.40	SCX100AN
	0-100 PSID	Differential/Gage	0-100mV		+20	100µSec	-40°C to +85°C	287-1020-ND	41.82	27.66	26.40	SCX100DN
	0-150 PSIA	Absolute	0-90mV		+20	100µSec	-40°C to +85°C	287-1021-ND	41.82	27.66	26.40	SCX150AN
	0-150 PSID	Differential/Gage	0-90mV		+20	100µSec	-40°C to +85°C	287-1022-ND	41.82	27.66	26.40	SCX150DN
	0-4" H2O	WC	Ratio		+18	500µSec	0°C to +70°C	287-1027-ND	84.70	62.13	44.83	SCXL004DN
2	0-1 PSID	Differential/Gage	0-18mV	DIP	+20	100µSec	-40°C to +85°C	287-1028-ND	26.87	19.89	18.29	SDX01D4
	0-5 PSID	Differentia/Gage	0-60mV					287-1030-ND	26.87	19.89	18.29	SDX05D4
	0-15 PSIA	Absolute	0-90mV					287-1037-ND	26.87	19.89	18.29	SDX15A4
	0-15 PSID	Differential/Gage	0-90mV					287-1038-ND	26.87	19.89	18.29	SDX15D4
	0-30 PSIA	Absolute	0-90mV					287-1041-ND	26.87	19.89	18.29	SDX30A4
	0-30 PSID	Differential/Gage	0-90mV					287-1042-ND	26.87	19.89	18.29	SDX30D4
	0-100 PSIA	Absolute	0-100mV					287-1033-ND	26.87	19.89	18.29	SDX100A4
	0-100 PSID	Differential/Gage	0-100mV					287-1034-ND	26.87	19.89	18.29	SDX100D4
	0-5" H2O	WC	0-25mV					287-1125-ND *NEW!*	49.86	37.67	33.71	SDX005IND4
	0-10" H2O	WC	0-25mV					287-1126-ND *NEW!*	46.31	34.99	31.31	SDX010IND4
3	0-1 PSIG	Gage	0-18mV	DIP	+20	100µSec	-40°C to +85°C	287-1029-ND	26.87	19.89	18.29	SDX01G2
	0-5 PSIG	Gage	0-60mV					287-1031-ND	26.87	19.89	18.29	SDX05G2
	0-15 PSIA	Absolute	0-90mV					287-1036-ND	26.87	19.89	18.29	SDX15A2
	0-15 PSIG	Gage	0-90mV					287-1039-ND	26.87	19.89	18.29	SDX15G2
	0-30 PSIA	Absolute	0-90mV					287-1040-ND	26.87	19.89	18.29	SDX30A2
	0-30 PSIG	Gage	0-90mV					287-1043-ND	26.87	19.89	18.29	SDX30G2
	0-100 PSIA	Absolute	0-100mV					287-1032-ND	26.87	19.89	18.29	SDX100A2
	0-100 PSIG	Gage	0-100mV					287-1035-ND	26.87	19.89	18.29	SDX100G2
Calibrated and Temperature Compensated Steel Sensors												
4	0-5 PSIG	Gage	1-5VDC	Steel 1/4" (6.35mm) 18NPT (Male)	+12 to +30	100µSec	-40°C to +125°C	287-1090-ND	124.71	96.76	91.60	SPT4V0005PG5W02
	0-15 PSIG		1-5VDC		+12 to +30			287-1091-ND	124.71	96.76	91.60	SPT4V0015PG5W02
	0-30 PSIG		1-5VDC		+12 to +30			287-1092-ND	124.71	96.76	91.60	SPT4V0030PG5W02
	0-100 PSIG		1-5VDC		+12 to +30			287-1093-ND	124.71	96.76	91.60	SPT4V0100PG5W02
	0-300 PSIG		1-5VDC		+12 to +30			287-1094-ND	124.71	96.76	91.60	SPT4V0300PG5W02
	0-500 PSIG		1-5VDC		+12 to +30			287-1095-ND	124.71	96.76	91.60	SPT4V0500PG5W02
	0-5 PSIG		4-20mA		+12.5 to +30			287-1096-ND	124.71	96.76	91.60	SPTMA0005PG5W02
	0-15 PSIG		4-20mA		+12.5 to +30			287-1097-ND	124.71	96.76	91.60	SPTMA0015PG5W02
	0-30 PSIG		4-20mA		+12.5 to +30			287-1098-ND	124.71	96.76	91.60	SPTMA0030PG5W02
	0-100 PSIG		4-20mA		+12.5 to +30			287-1099-ND	124.71	96.76	91.60	SPTMA0100PG5W02
	0-300 PSIG		4-20mA		+12.5 to +30			287-1100-ND	124.71	96.76	91.60	SPTMA0300PG5W02
	0-500 PSIG		4-20mA		+12.5 to +30			287-1101-ND	124.71	96.76	91.60	SPTMA0500PG5W02
4	0-5 PSIG	Gage	0-100mV	2" (61cm) Pigtail Electrical Connection	+15	100µSec	-40°C to +125°C	287-1102-ND	106.43	87.08	82.56	SPTMV0005PG5W02
	0-15 PSIG							287-1103-ND	106.43	87.08	82.56	SPTMV0015PG5W02
	0-30 PSIG							287-1104-ND	106.43	87.08	82.56	SPTMV0030PG5W02
	0-100 PSIG							287-1105-ND	106.43	87.08	82.56	SPTMV0100PG5W02
	0-300 PSIG							287-1106-ND	106.43	87.08	82.56	SPTMV0300PG5W02
	0-500 PSIG							287-1107-ND	106.43	87.08	82.56	SPTMV0500PG5W02
High-Impedance Bridge Sensors												
2	0-1 PSID	Differential	0-20mV	DIP	+12	100µSec	-40°C to +85°C	287-1065-ND	24.94	17.88	15.20	SX01DD4
	0-5 PSID	Differential	0-75mV					287-1068-ND	20.31	14.19	13.22	SX05DD4
	0-15 PSIA	Absolute	0-110mV					287-1080-ND	20.31	14.19	13.22	SX15AD4
	0-15 PSID	Differential	0-110mV					287-1082-ND	20.31	14.19	13.22	SX15DD4
	0-30 PSIA	Absolute	0-110mV					287-1086-ND	20.31	14.19	13.22	SX30AD4
	0-30 PSID	Differential	0-110mV					287-1088-ND	20.31	14.19	13.22	SX30DD4
	0-100 PSIA	Absolute	0-150mV					287-1072-ND	24.94	17.88	15.20	SX100AD4
	0-100 PSID	Differential	0-150mV					287-1074-ND	24.94	17.88	15.20	SX100DD4
3	0-1 PSIG	Gage	0-20mV	DIP	+12	100µSec	-40°C to +85°C	287-1066-ND	27.29	22.48	16.27	SX01GD2
	0-5 PSIG	Gage	0-75mV					287-1069-ND	23.75	17.41	15.48	SX05GD2
	0-15 PSIA	Absolute	0-110mV					287-1079-ND	20.31	14.19	13.22	SX15AD2
	0-15 PSIG	Gage	0-110mV					287-1083-ND	20.31	14.19	13.22	SX15GD2
	0-30 PSIA	Absolute	0-110mV					287-1085-ND	20.31	14.19	13.22	SX30AD2
	0-30 PSIG	Gage	0-110mV					287-1089-ND	20.31	14.19	13.22	SX30GD2
	0-100 PSIA	Absolute	0-150mV					287-1071-ND	24.94	17.88	15.20	SX100AD2
	0-100 PSIG	Gage	0-150mV					287-1075-ND	24.94	17.88	15.20	SX100GD2
5	0-1 PSID	Differential	0-20mV	Button	+12	100µSec	-40°C to +85°C	287-1064-ND	24.94	17.88	15.20	SX01D
	0-5 PSID	Differential	0-75mV					287-1067-ND	20.31	14.19	13.22	SX05D
	0-15 PSID	Differential	0-110mV					287-1081-ND	20.31	14.19	13.22	SX15D
	0-15 PSIA	Absolute	0-110mV					287-1078-ND	20.31	14.19	13.22	SX15A
	0-30 PSID	Differential	0-110mV					287-1087-ND	20.31	14.19	13.22	SX30D
	0-30 PSIA	Absolute	0-110mV					287-1084-ND	20.31	14.19	13.22	SX30A
	0-100 PSIA	Absolute	0-150mV					287-1070-ND	24.94	17.88	15.20	SX100A
	0-100 PSID	Differential	0-150mV					287-1073-ND	24.94	17.88	15.20	SX100D
	0-150 PSIA	Absolute	0-110mV					287-1076-ND	24.94	17.88	15.20	SX150A
	0-150 PSID	Differential	0-110mV					287-1077-ND	24.94	17.88	15.20	SX150D
Handbook								287-1001-ND	5.00	—	—	DA-B-7/96-15K

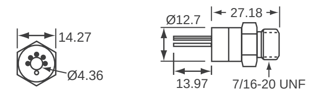
* Response time for a 0 psi to full scale span pressure step change, 10% to 90% rise time.

SenSym ICT Isolated Pressure Sensors and Compensated Sensors

Features:

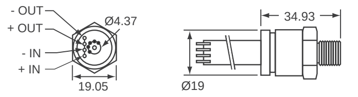
- Response Time: 100 µSec, BE Series-Response Time: 10 mS *(0 psi to full scale span pressure step change, 10% to 90% rise time.)*
- Operating Temperature: -40°C to +125°C

13mm Male Port



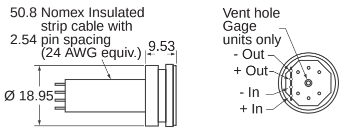
Note: Ø 0.22" ±0.001" (0.56mm ±0.03mm) Pins on Ø 0.230" (5.84mm) pin circle.

19mm Male Port



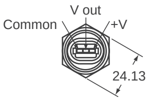
Note: 2" (50.8mm) NOMEX ribbon cable with 0.100" (2.54mm) pin spacing (24 AWG wire size).

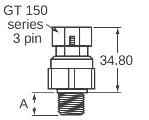
Flush Mount


50.8 Nomex Insulated strip cable with 2.54 pin spacing (24 AWG equiv.)
9.53
Ø 18.95
Vent hole Gage units only
- Out
+ Out
- In
+ In

NEW! **Bonded Element**

Dim. A (mm)	SenSym Part No.
15.24	BE-4R125PG5DS
15.24	BE-4R125PG5DC
10.67	BE-4R500PG5DS
10.92	BE-4R5000PG6DS
10.92	BE-4R5000PG6DC





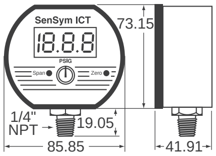
Pressure	Pressure Type	Output mV	Port Description	Max. Supply	Digi-Key Part No.	Price Each 1	25	100	SenSym ICT Part No.
13mm									
0-1000 PSIA	Absolute	0-200	1/8" 27 NPT-SS	+12VDC	287-1123-ND	81.70	65.58	61.92	13C1000PA4K
0-5000 PSIA					287-1124-ND	81.70	65.58	61.92	13C5000PA4K
19mm — Calibrated Compensated									
0-15 PSIA	Absolute	0-100	1/8" 27 NPT-SS	+15VDC	287-1108-ND	82.77	62.89	59.34	19C015PA4K
0-15 PSIG	Gage			+15VDC	287-1109-ND	82.77	62.89	59.34	19C015PG4K
0-15 PSIV	Vacuum			+15VDC	287-1938-ND	82.77	62.89	59.34	19C015PV4K
0-15 PSIV	Vacuum			+2.0mA	287-1939-ND	82.77	62.89	59.34	19C015PV4L
0-15 PSIV	Vacuum	0-100	1/4" 18 NPT-SS	+15VDC	287-1940-ND	82.77	62.89	59.34	19C015PV5K
0-15 PSIV	Vacuum			+2.0mA	287-1941-ND	82.77	62.89	59.34	19C015PV5L
0-30 PSIA	Absolute	0-100	1/8" 27 NPT-SS	+15VDC	287-1110-ND	82.77	62.89	59.34	19C030PA4K
0-30 PSIG	Gage			+15VDC	287-1111-ND	82.77	62.89	59.34	19C030PG4K
0-30 PSIV	Vacuum			+15VDC	287-1944-ND	82.77	62.89	59.34	19C030PV4K
0-30 PSIV	Vacuum			+2.0mA	287-1945-ND	82.77	62.89	59.34	19C030PV4L
0-30 PSIV	Vacuum	0-100	1/4" 18 NPT-SS	+15VDC	287-1946-ND	82.77	62.89	59.34	19C030PV5K
0-30 PSIV	Vacuum			+2.0mA	287-1947-ND	82.77	62.89	59.34	19C030PV5L
0-50 PSIA	Absolute	0-100	1/8" 27 NPT-SS	+15VDC	287-1112-ND	82.77	62.89	59.34	19C050PA4K
0-50 PSIG	Gage				287-1113-ND	82.77	62.89	59.34	19C050PG4K
0-100 PSIA	Absolute	0-100	1/8" 27NPT-SS	+15VDC	287-1114-ND	82.77	62.89	59.34	19C100PA4K
0-100 PSIG	Gage			+15VDC	287-1115-ND	82.77	62.89	59.34	19C100PG4K
0-100 PSIV	Vacuum			+15VDC	287-1950-ND	82.77	62.89	59.34	19C100PV4K
0-100 PSIV	Vacuum			+2.0mA	287-1951-ND	82.77	62.89	59.34	19C100PV4L
0-100 PSIV	Vacuum	0-100	1/4" 18 NPT-SS	+15VDC	287-1952-ND	82.77	62.89	59.34	19C100PV5K
0-100 PSIV	Vacuum			+2.0mA	287-1953-ND	82.77	62.89	59.34	19C100PV5L
0-200 PSIA	Absolute	0-100	1/8" 27 NPT-SS	+15VDC	287-1116-ND	82.77	62.89	59.34	19C200PA4K
0-200 PSIG	Gage				287-1117-ND	82.77	62.89	59.34	19C200PG4K
0-300 PSIA	Absolute	0-100	1/8" 27 NPT-SS	+15VDC	287-1118-ND	82.77	62.89	59.34	19C300PA4K
0-300 PSIG	Gage				287-1119-ND	82.77	62.89	59.34	19C300PG4K
0-500 PSIA	Absolute	0-100	1/8" 27 NPT-SS	+15VDC	287-1120-ND	82.77	62.89	59.34	19C500PA4K
0-500 PSIG	Gage				287-1121-ND	82.77	62.89	59.34	19C500PG4K
Flush Mount									
0-15 PSIV	Vacuum	0-100	N/A	+15VDC	287-1936-ND	77.40	57.52	54.18	19C015PV2K
0-15 PSIV				+2.0mA	287-1937-ND	77.40	57.52	54.18	19C015PV2L
0-30 PSIV	Vacuum	0-100	N/A	+15VDC	287-1942-ND	77.40	57.52	54.18	19C030PV2K
0-30 PSIV				+2.0mA	287-1943-ND	77.40	57.52	54.18	19C030PV2L
0-100 PSIV	Vacuum	0-100	N/A	+15VDC	287-1948-ND	77.40	57.52	54.18	19C100PV2K
0-100 PSIV				+2.0mA	287-1949-ND	77.40	57.52	54.18	19C100PV2L
NEW! Bonded Element NEW!									
0-125 PSIG	Gage	0-4.00	1/4"-18 NPT-SS	+5.25VDC	287-1127-ND	60.00	56.00	52.80	BE-4R125PG5DS
0-125 PSIG			1/4"-18 NPT-CRS		287-1128-ND	58.00	54.00	50.40	BE-4R125PG5DC
0-500 PSIG			1/8"-27 NPT-SS		287-1129-ND	60.00	56.00	52.80	BE-4R500PG4DS
0-5000 PSIG			7/16"-20 UNF-SS		287-1130-ND†	60.00	56.00	52.80	BE-4R5000PG6DS
0-5000 PSIG			7/16"-20 UNF-CRS		287-1131-ND†	58.00	54.00	50.40	BE-4R5000PG6DC

† Gland per MS33656 (3-904 O-Ring seal not provided)

Digital Pressure Gauges

SDPGB Series

Features: • ±0.25% Test Gauge Accuracy • 316 Stainless Steel Sensor • Long Battery Life (Two AA Alkaline approximately 2,500 hours) • Rugged Design • Display: 3 1/2" digit LCD, 1/2" Digit Height • Auto Shutoff Time • Low Battery Indication • Media Compatibility: All wetted parts are 316 SS compatible with most liquids and gases



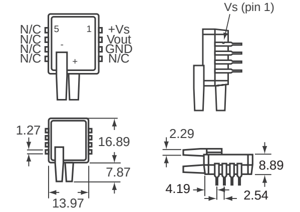
Pressure Range	Resolution PSIG	Operating Temp.	Pressure Port	Digi-Key Part No.	Price Each	SenSym ICT Part No.
-30.0 inHg/100.0 PSIG	0.1	-20°C to +85°C	1/4" NPT Male, 316 Stainless Steel	287-1928-ND	267.68	SDPGB-30+100PG5
15.00 PSIG	0.01			287-1929-ND	267.68	SDPGB0015PG5
30.0 PSIG	0.1			287-1930-ND	267.68	SDPGB0030PG5
100.0 PSIG	0.1			287-1931-ND	267.68	SDPGB0100PG5
199.9 PSIG	0.1			287-1932-ND	267.68	SDPGB0200PG5
300 PSIG	1.0			287-1933-ND	267.68	SDPGB0300PG5
500 PSIG	1.0			287-1934-ND	267.68	SDPGB0500PG5
1,000 PSIG	1.0			287-1935-ND	267.68	SDPGB1000PG5

Honeywell

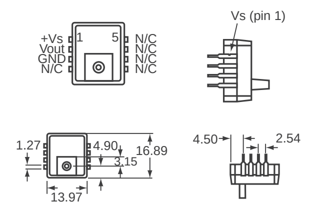
Sensing and Control

Solid State Pressure Sensors

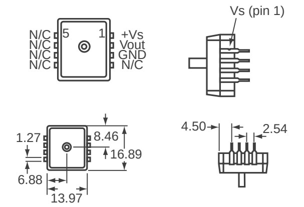
D4 Package



G2 Package



A2 Package



Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Operating Temperature	Digi-Key Part No.	Price Each 1	25	100	Honeywell Part No.
Pressure Sensors Calibrated and Temperature Compensated											
0-1 PSIG	Gage	0.5 to 4.5V	DIP	4.75 to 5.25†	8ms	-20°C to +105°C	480-1923-ND	30.11	22.59	20.76	ASDX001G24R
0-1 PSID	Differential/Gage						480-1918-ND	30.13	22.60	20.77	ASDX001D44R
0-5 PSIG	Gage						480-1924-ND	30.11	22.59	20.76	ASDX005G24R
0-5 PSID	Differential/Gage						480-1919-ND	30.11	22.59	20.76	ASDX005D44R
0-15 PSIA	Absolute						480-1915-ND	30.11	22.59	20.76	ASDX015A24R
0-15 PSIG	Gage						480-1925-ND	30.11	22.59	20.76	ASDX015G24R
0-15 PSID	Differential/Gage						480-1920-ND	30.11	22.59	20.76	ASDX015D44R
0-30 PSIA	Absolute						480-1916-ND	30.11	22.59	20.76	ASDX030A24R
0-30 PSIG	Gage						480-1926-ND	30.09	22.57	20.75	ASDX030G24R
0-30 PSID	Differential/Gage						480-1921-ND	30.11	22.59	20.76	ASDX030D44R
0-100 PSIA	Absolute						480-1917-ND	30.11	22.59	20.76	ASDX100A24R
0-100 PSIG	Gage						480-1927-ND	30.11	22.59	20.76	ASDX100G24R
0-100 PSID	Differential/Gage						480-1922-ND	30.11	22.59	20.76	ASDX100D44R

† Sensor is not reverse polarity protected.

MOTOROLA Sensors

Fig. 1

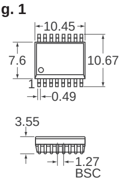


Fig. 2

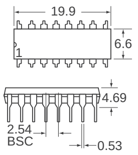


Fig. 3

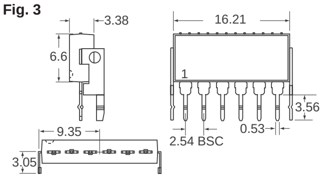


Fig. 4

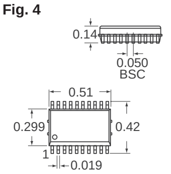
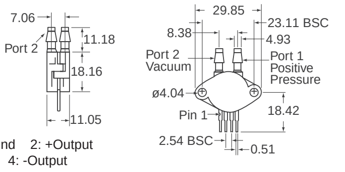


Fig. 5



1: Ground 2: +Output
3: Vcc 4: -Output

Fig. 6

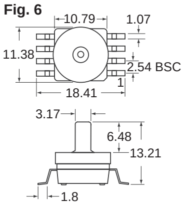


Fig. 7

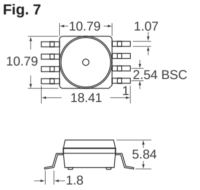
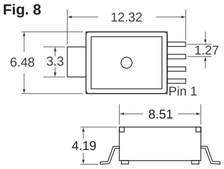
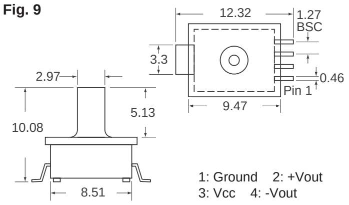


Fig. 8



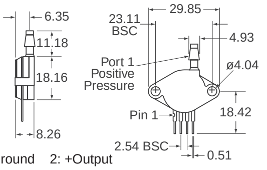
1: Ground 2: Vout
3: Vcc 4: -Vout

Fig. 9



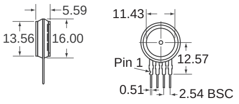
1: Ground 2: +Vout
3: Vcc 4: -Vout

Fig. 10



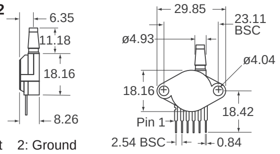
1: Ground 2: +Output
3: Vcc 4: -Output

Fig. 11



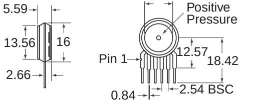
1: Ground 2: +Output
3: Vcc 4: -Output

Fig. 12



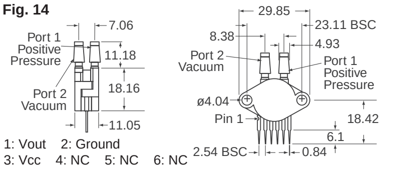
1: Vout 2: Ground
3: Vcc 4: NC 5: NC 6: NC

Fig. 13



1: Vout 2: Ground 3: Vcc
4: NC 5: NC 6: NC

Fig. 14



1: Vout 2: Ground
3: Vcc 4: NC 5: NC 6: NC

Accelerometers

- **Operating Temperature Range:** -40°C to +85°C • **Supply (typ.):** 5.0VDC

Fig.	Supply (VDC)	Acceleration Range	Sensitivity (mV/g/V)	Zero g Output (Vdd 5V)*	Digi-Key Part No.	Price Each		
						1	25	100
1	4.75 to 5.25	8g	50	2.5V	MMA1220D-ND	20.66	16.40	15.47
2	4.75 to 5.25	38g	10	2.5V	MMA1201P-ND	20.66	16.40	15.47
3	4.75 to 5.25	38g	10	2.5V	MMA2200W-ND	20.66	16.40	15.47
1	4.75 to 5.25	38g	10	2.5V	MMA2201D-ND	20.66	16.40	15.47
4	4.75 to 5.25	45g	10	2.5V	MMA3201D-ND	20.66	16.40	15.47
1	4.75 to 5.25	47g	1.6	2.5V	MMA1200D-ND	20.66	16.40	15.47
1	4.75 to 5.25	47g	8	2.5V	MMA2202D-ND	20.66	16.40	15.47

* The device can measure both +/- acceleration. With no input acceleration the output is at midsupply.
For positive acceleration the output will increase above Vdd/2 and for negative acceleration the output will decrease below Vdd/2.

Precision Temperature Compensated Pressure Sensors

- **Operating Temperature Range:** -40°C to +125°C

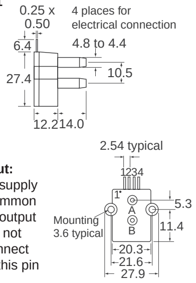
Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each		
									1	25	100
Unamplified Uncompensated Pressure Sensors											
5	0 to 1.45 PSI	Differential	35mV	344C-01	3.0	1.0ms	—	MPX10DP-ND	12.03	9.16	8.59
Unamplified Temperature Compensated Pressure Sensors											
11	0 to 1.45 PSI	Differential	25mV	344-15	10.0	1.0ms	0 to +85	MPX2010D-ND	13.63	10.49	9.85
5	0 to 1.45 PSI	Differential	25mV	344C-01	10.0	1.0ms	0 to +85	MPX2010DP-ND	14.43	11.15	10.48
10	0 to 1.45 PSI	Gage	25mV	344B-01	10.0	1.0ms	0 to +85	MPX2010GP-ND	14.27	11.02	10.35
8	0 to 1.45 PSI	Differential	25mV	MPAK	10.0	1.0ms	0 to +85	MPXM2010D-ND	7.90	5.80	5.40
9	0 to 1.45 PSI	Gage	25mV	Ported MPAK	10.0	1.0ms	0 to +85	MPXM2010GS-ND	8.07	5.93	5.53
10	0 to 7.25 PSI	Gage	40mV	344B-01	10.0	1.0ms	0 to +85	MPX2050GP-ND	15.85	12.34	11.61
8	0 to 7.25 PSI	Differential	40mV	MPAK	10.0	1.0ms	0 to +85	MPXM2053D-ND	7.90	5.80	5.40
9	0 to 7.25 PSI	Gage	40mV	Ported MPAK	10.0	1.0ms	0 to +85	MPXM2053GS-ND	8.07	5.93	5.53
8	0 to 14.5 PSI	Absolute	40mV	MPAK	10.0	1.0ms	0 to +85	MPXM2102A-ND	7.90	5.80	5.40
9	0 to 14.5 PSI	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 to +85	MPXM2102AS-ND	8.07	5.93	5.53
8	0 to 14.5 PSI	Differential	40mV	MPAK	10.0	1.0ms	0 to +85	MPXM2102D-ND	7.90	5.80	5.40
9	0 to 14.5 PSI	Gage	40mV	Ported MPAK	10.0	1.0ms	0 to +85	MPXM2102GS-ND	8.07	5.93	5.53
8	0 to 29 PSI	Absolute	40mV	MPAK	10.0	1.0ms	0 to +85	MPXM2202A-ND	7.90	5.80	5.40
9	0 to 29 PSI	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 to +85	MPXM2202AS-ND	8.07	5.93	5.53
8	0 to 29 PSI	Differential	40mV	MPAK	10.0	1.0ms	0 to +85	MPXM2202D-ND	7.90	5.80	5.40
9	0 to 29 PSI	Gage	40mV	Ported MPAK	10.0	1.0ms	0 to +85	MPXM2202GS-ND	8.07	5.93	5.53
10	0 to 29 PSI	Gage	40mV	344B-01	10.0	1.0ms	0 to +85	MPX2200GP-ND	15.85	12.34	11.61
Amplified Temperature Compensated Pressure Sensors											
6	0 to 3.92kPa	Gage	4.9V	Ported 8-SOP	5.0	—	0 to +85	MPXV5004GC6U-ND	18.19	14.31	13.48
14	0 to 1.45 PSI	Differential	4.7V	867C-05	5.0	1.0ms	-40 to +125	MPX5010DP-ND	18.34	14.44	13.61
12	0 to 1.45 PSI	Gage	4.7V	867B-04	5.0	1.0ms	-40 to +125	MPX5010GP-ND	18.19	14.31	13.48
13	0 to 1.45 PSI	Differential	4.7V	867-08	5.0	1.0ms	-40 to +125	MPX5050D-ND	17.57	13.78	12.98
14	0 to 1.45 PSI	Differential	4.7V	867C-05	5.0	1.0ms	-40 to +125	MPX5050DP-ND	18.34	14.44	13.61
12	0 to 1.45 PSI	Gage	4.7V	867B-04	5.0	1.0ms	-40 to +125	MPX5050GP-ND	18.19	14.31	13.48
12	0 to 14.5 PSI	Absolute	4.7V	867B-04	5.0	1.0ms	0 to +85	MPX5100AP-ND	18.19	14.31	13.48
14	0 to 14.5 PSI	Differential	4.7V	867C-05	5.0	1.0ms	0 to +85	MPX5100DP-ND	18.34	14.44	13.61
12	0 to 14.5 PSI	Gage	4.7V	867B-04	5.0	1.0ms	0 to +85	MPX5100GP-ND	18.19	14.31	13.48
6	2.18 to 14.8 PSI	Absolute	4.95V	Ported 8-SOP	5.1	15.0ms	-40 to +125	MPXA4101AC6U-ND	18.19	14.31	13.48
7	2.9 to 15.2 PSI	Absolute	4.9V	8-SOP	5.1	1.0ms	-40 to +125	MPXAZ4100A6U-ND	17.80	13.98	13.17
6	2.9 to 15.2 PSI	Absolute	4.9V	Ported 8-SOP	5.1	1.0ms	-40 to +125	MPXAZ4100AC6U-ND	18.42	14.50	13.67
12	2.2 to 16.7 PSI	Absolute	4.8V	867B-04	5.1	1.0ms	0 to +85	MPX4100AP-ND	18.19	14.31	13.48
13	2.2 to 16.7 PSI	Absolute	4.8V	867-08	5.1	1.0ms	-40 to +125	MPX4115A-ND	17.57	13.78	12.98
12	2.2 to 16.7 PSI	Absolute	4.8V	867B-04	5.1	1.0ms	-40 to +125	MPX4115AP-ND	18.19	14.31	13.48
7	2.2 to 16.7 PSI	Absolute	4.8V	8-SOP	5.1	1.0ms	-40 to +125	MPXA4100A6U-ND	17.57	13.78	12.98
6	2.2 to 16.7 PSI	Absolute	4.8V	Ported 8-SOP	5.1	1.0ms	-40 to +125	MPXA4100AC6U-ND	18.19	14.31	13.48
7	2.2 to 16.7 PSI	Absolute	4.8V	8-SOP	5.1	1.0ms	-40 to +125	MPXA4115A6U-ND	17.57	13.78	12.98
6	2.2 to 16.7 PSI	Absolute	4.8V	Ported 8-SOP	5.1	1.0ms	-40 to +125	MPXA4115AC6U-ND	18.19	14.31	13.48
7	2.2 to 16.7 PSI	Absolute	4.8V	8-SOP	5.0	1.0ms	-40 to +125	MPXA6115A6U-ND	17.57	13.78	12.98
6	2.2 to 16.7 PSI	Absolute	4.8V	Ported 8-SOP	5.0	1.0ms	-40 to +125	MPXA6115AC6U-ND	18.19	14.31	13.48
7	2.2 to 16.7 PSI	Absolute	4.8V	8-SOP	5.1	1.0ms	-40 to +125	MPXAZ4115A6U-ND	17.80	13.98	13.17
6	2.2 to 16.7 PSI	Absolute	4.8V	Ported 8-SOP	5.1	1.0ms	-40 to +125	MPXAZ4115AC6U-ND	18.42	14.50	13.67
12	2.9 to 36.3 PSI	Absolute	4.9V	867B-04	5.1	1.0ms	-40 to +125	MPX4250AP-ND	18.19	14.31	13.48
7	2.9 to 36.3 PSI	Absolute	4.9V	8-SOP	5.1	1.0ms	-40 to +125	MPXA4250A6U-ND	17.57	13.78	12.98
6	2.9 to 36.3 PSI	Absolute	4.9V	Ported 8-SOP	5.1	1.0ms	-40 to +125	MPXA4250AC6U-ND	18.19	14.31	13.48
14	0 to 101.5 PSI	Differential	4.7V	867C-05	5.0	1.0ms	0 to +85	MPX5700DP-ND	18.34	14.44	13.61
12	0 to 101.5 PSI	Gage	4.7V	867B-04	5.0	1.0ms	0 to +85	MPX5700GP-ND	18.19	14.31	13.48
13	0 to 101.5 PSI	Differential	4.7V	867-08	5.0	1.0ms	0 to +85	MPX5999D-ND	17.57	13.78	12.98

*Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure.

ALL SENSORS Pressure Sensors

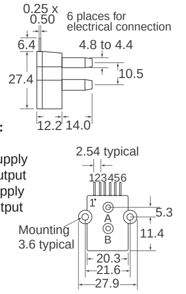
Fig.	Pressure	Pressure Type	Output	Supply (VDC)	Compensated Temperature	Operating Temperature	Digi-Key Part No.	Price Each			All Sensors Part No.
								1	25	100	
Amplified with Voltage Reference Low Pressure											
1	±1	mbar	4V	+5.5 to +16Vdc	5° to 50°C	-25° to 85°C	442-1000-ND	104.00	83.75	80.40	1 MBAR-D-4V-REF
	±1	In H2O					442-1001-ND	104.00	83.75	80.40	1 INCH-D-4V-REF
	0-1	In H2O					442-1002-ND	104.00	83.75	80.40	1 INCH-G-4V-REF
	±5	In H2O					442-1003-ND	99.00	77.50	74.40	5 INCH-D-4V-REF
	0-5	In H2O					442-1004-ND	99.00	77.50	74.40	5 INCH-G-4V-REF
	±10	In H2O					442-1005-ND	99.00	77.50	74.40	10 INCH-D-4V-REF
	0-10	In H2O					442-1006-ND	99.00	77.50	74.40	10 INCH-G-4V-REF
	±20	In H2O					442-1007-ND	99.00	77.50	74.40	20 INCH-D-4V-REF
	0-20	In H2O					442-1008-ND	99.00	75.00	72.00	20 INCH-G-4V-REF
	±30	In H2O					442-1009-ND	99.00	77.50	74.40	30 INCH-D-4V-REF
	0-30	In H2O					442-1010-ND	99.00	75.00	72.00	30 INCH-G-4V-REF
Amplified Low Pressure											
1	±1	mbar	4V	+3 to +6Vdc	5° to 50°C	-25° to 85°C	442-1011-ND	89.00	73.75	70.80	1 MBAR-D-4V
	±1	In H2O					442-1012-ND	89.00	73.75	70.80	1 INCH-D-4V
	0-1	In H2O					442-1013-ND	89.00	73.75	70.80	1 INCH-G-4V
	±5	In H2O					442-1014-ND	84.00	67.50	64.80	5 INCH-D-4V
	0-5	In H2O					442-1015-ND	84.00	67.50	64.80	5 INCH-G-4V
	±10	In H2O					442-1016-ND	84.00	67.50	64.80	10 INCH-D-4V
	0-10	In H2O					442-1017-ND	84.00	67.50	64.80	10 INCH-G-4V
	±20	In H2O					442-1018-ND	84.00	67.50	64.80	20 INCH-D-4V
	0-20	In H2O					442-1019-ND	84.00	67.50	64.80	20 INCH-G-4V
	±30	In H2O					442-1020-ND	84.00	67.50	64.80	30 INCH-D-4V
	0-30	In H2O					442-1021-ND	84.00	67.50	64.80	30 INCH-G-4V
Amplified Middle Pressure											
1	±0.3	PSID	4V	+3 to +7Vdc	5° to 50°C	-25° to 85°C	442-1022-ND	79.00	61.25	58.80	0.3 PSI-D-4V
	0-0.3	PSIG					442-1023-ND	79.00	61.25	58.80	0.3 PSI-G-4V
	±1	PSID					442-1024-ND	79.00	61.25	58.80	1 PSI-D-4V
	0-1	PSIG					442-1025-ND	79.00	61.25	58.80	1 PSI-G-4V
	0-15	PSIA					442-1026-ND	74.00	55.00	52.80	15 PSI-A-4V
	0-15	PSIG					442-1027-ND	74.00	55.00	52.80	15 PSI-G-4V
Millivolt Output C-Grade Pressure											
2	0-4	In H2O	40mV	16Vdc	0° to 70°C	-25° to 85°C	442-1028-ND	42.00	33.75	32.40	4 INCH-D-CGRADE-MV
	0-0.3	PSID	20mV				442-1029-ND	42.00	33.75	32.40	0.3 PSI-D-CGRADE-MV
	0-1	PSID	18mV				442-1030-ND	37.00	30.00	28.80	1 PSI-D-CGRADE-MV
	0-15	PSIA	60mV				442-1031-ND	37.00	30.00	28.80	15 PSI-A-CGRADE-MV
Millivolt Output H-Grade Pressure											
2	0-0.3	PSID	20mV	16Vdc	0° to 70°C	-25° to 85°C	442-1032-ND	44.00	36.25	34.80	0.3 PSI-D-HGRADE-MV
	0-1	PSID	18mV				442-1033-ND	44.00	36.25	34.80	1 PSI-D-HGRADE-MV
	0-5	PSID	60mV				442-1034-ND	39.00	32.50	31.20	5 PSI-D-HGRADE-MV
	0-15	PSID	90mV				442-1035-ND	39.00	32.50	31.20	15 PSI-D-HGRADE-MV
	0-15	PSIA	60mV				442-1036-ND	39.00	32.50	31.20	15 PSI-A-HGRADE-MV
Millivolt Output Low Pressure											
2	0-1	In H2O	10mV	16Vdc	0° to 50 (70)°C	-25° to 85°C	442-1037-ND	65.00	47.50	45.60	1 INCH-D-MV
	0-5		20mV				442-1038-ND	62.00	45.00	43.20	5 INCH-D-MV
	0-10		20mV				442-1039-ND	62.00	45.00	43.20	10 INCH-D-MV
	0-20		20mV				442-1040-ND	62.00	45.00	43.20	20 INCH-D-MV
	0-30		20mV				442-1041-ND	62.00	45.00	43.20	30 INCH-D-MV
Millivolt Output Prime Grade Pressure											
2	0-0.3	PSID	20mV	16Vdc	0° to 70°C	-25° to 85°C	442-1042-ND	59.00	48.75	46.80	0.3 PSI-D-PRIME-MV
	0-1	PSID	18mV				442-1043-ND	59.00	48.75	46.80	1 PSI-D-PRIME-MV
	0-15	PSIA	60mV				442-1044-ND	54.00	43.75	42.00	15 PSI-A-PRIME-MV
Miniature Basic Offset Compensated Pressure											
3	0-1	In H2O	4.0 to 10.0mV	6Vdc	0° to 70°C	-25° to 85°C	442-1045-ND	45.00	37.50	36.00	1 INCH-G-BASIC
	0-5		15 to 30mV				442-1048-ND	39.00	27.50	26.40	5 INCH-G-BASIC
	0-10		15 to 45mV				442-1051-ND	39.00	27.50	26.40	10 INCH-G-BASIC
	0-20		15 to 45mV				442-1054-ND	39.00	27.50	26.40	20 INCH-G-BASIC
	0-30		15 to 45mV				442-1057-ND	39.00	27.50	26.40	30 INCH-G-BASIC
	0-1	In H2O	4.0 to 10.0mV	6Vdc	0° to 70°C	-25° to 85°C	442-1046-ND	46.00	38.75	37.20	1 INCH-D1-BASIC
	0-5		15 to 30mV				442-1049-ND	40.00	28.75	27.60	5 INCH-D1-BASIC
	0-10		15 to 45mV				442-1052-ND	40.00	28.75	27.60	10 INCH-D1-BASIC
	0-20		15 to 45mV				442-1055-ND	40.00	28.75	27.60	20 INCH-D1-BASIC
	0-30		15 to 45mV				442-1058-ND	40.00	28.75	27.60	30 INCH-D1-BASIC
	0-1	In H2O	4.0 to 10.0mV	6Vdc	0° to 70°C	-25° to 85°C	442-1047-ND	47.00	40.00	38.40	1 INCH-D2-BASIC
	0-5		15 to 30mV				442-1050-ND	41.00	30.00	28.80	5 INCH-D2-BASIC
	0-10		15 to 45mV				442-1053-ND	41.00	30.00	28.80	10 INCH-D2-BASIC
	0-20		15 to 45mV				442-1056-ND	41.00	30.00	28.80	20 INCH-D2-BASIC
	0-30		15 to 45mV				442-1059-ND	41.00	30.00	28.80	30 INCH-D2-BASIC
Miniature Low Pressure											
3	0-5	In H2O	19 to 21mV	16Vdc	0° to 50 (70)°C	-25° to 85°C	442-1077-ND	54.00	49.38	47.40	5 INCH-G-MV-MINI
	0-10						442-1080-ND	54.00	49.38	47.40	10 INCH-G-MV-MINI
	0-20						442-1083-ND	54.00	49.38	47.40	20 INCH-G-MV-MINI
	0-30						442-1086-ND	54.00	49.38	47.40	30 INCH-G-MV-MINI
	0-5	In H2O	19 to 21mV	16Vdc	0° to 50 (70)°C	-25° to 85°C	442-1078-ND	55.00	50.63	48.60	5 INCH-D1-MV-MINI
	0-10						442-1081-ND	55.00	50.63	48.60	10 INCH-D1-MV-MINI
	0-20						442-1084-ND	55.00	50.63	48.60	20 INCH-D1-MV-MINI
	0-30						442-1087-ND	55.00	50.63	48.60	30 INCH-D1-MV-MINI
	0-5	In H2O	19 to 21mV	16Vdc	0° to 50 (70)°C	-25° to 85°C	442-1079-ND	55.00	50.63	48.60	5 INCH-D2-MV-MINI
	0-10						442-1082-ND	55.00	50.63	48.60	10 INCH-D2-MV-MINI
	0-20						442-1085-ND	55.00	50.63	48.60	20 INCH-D2-MV-MINI
	0-30						442-1088-ND	55.00	50.63	48.60	30 INCH-D2-MV-MINI
Miniature H-Grade Pressure											
4	0-4	In H2O	24 to 26mV	16Vdc	0° to (50) 70°C	-25° to 85°C	442-1060-ND	44.00	36.25	34.80	4 INCH-G-HGRADE-MINI
	0-0.3	PSIG	19 to 21mV				442-1063-ND	44.00	36.25	34.80	0.3 PSI-G-HGRADE-MINI
	0-10	In H2O	19 to 21mV				442-1066-ND	44.00	36.25	34.80	10 INCH-G-HGRADE-MINI
	0-1	PSIG	17.82 to 18.18mV				442-1069-ND	44.00	36.25	34.80	1 PSI-G-HGRADE-MINI
	0-5	PSIG	59.4 to 60.6mV				442-1072-ND	39.00	32.50	31.20	5 PSI-G-HGRADE-MINI
	0-15	PSIA	89.1 to 90.9mV				442-1075-ND	39.00	32.50	31.20	15 PSI-A-HGRADE-MINI
5	0-4	In H2O	24 to 26mV	16Vdc	0° to (50) 70°C	-25° to 85°C	442-1061-ND	44.00	36.25	34.80	4 INCH-GF-HGRADE-MINI
	0-0.3	PSIG	19 to 21mV				442-1064-ND	44.00	36.25	34.80	0.3 PSI-GF-HGRADE-MINI
	0-10	In H2O	19 to 21mV				442-1067-ND	44.00	36.25	34.80	10 INCH-GF-HGRADE-MINI
	0-1	PSIG	17.82 to 18.18mV				442-1070-ND	44.00	36.25	34.80	1 PSI-GF-HGRADE-MINI
	0-5	PSIG	59.4 to 60.6mV				442-1073-ND	39.00	32.50	31.20	5 PSI-GF-HGRADE-MINI
	0-15	PSIA	89.1 to 90.9mV				442-1076-ND	39.00	32.50	31.20	15 PSI-AF-HGRADE-MINI
6	0-4	In H2O	24 to 26mV	16Vdc	0° to (50) 70°C	-25° to 85°C	442-1062-ND	46.00	37.50	36.00	4 INCH-D-HGRADE-MINI
	0-0.3	PSID	19 to 21mV				442-1065-ND	46.00	37.50	36.00	0.3 PSI-D-HGRADE-MINI
	0-10	In H2O	19 to 21mV				442-1068-ND	46.00	37.50	36.00	10 INCH-D-HGRADE-MINI
	0-1	PSID	17.82 to 18.18mV				442-1071-ND	46.00	37.50	36.00	1 PSI-D-HGRADE-MINI
	0-5	PSID	59.4 to 60.6mV				442-1074-ND	41.00	33.75	32.40	5 PSI-D-HGRADE-MINI

Fig. 1



Pinout:
1. +Vsupply
2. Common
3. +Voutput
4. Do not connect to this pin

Fig. 2



Pinout:
1. N/C
2. +Vsupply
3. +Voutput
4. -Vsupply
5. -Voutput
6. N/C

Fig. 3

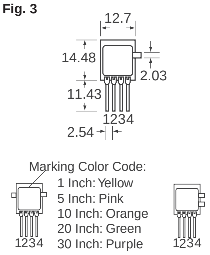


Fig. 4

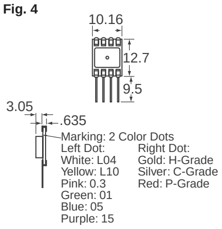


Fig. 5 — Single Pressure Port

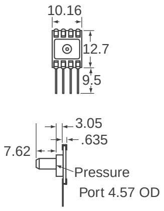
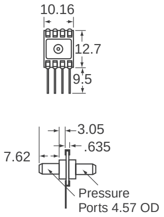


Fig. 6 — Dual Pressure Ports



Closed Loop Current Transducers

LTS 6-NP, LTS 15-NP and LTS 25-NP: Closed loop (compensated) multi-range current transducer using the Hall effect, unipolar voltage supply, compact design for PCB mounting, insulated plastic case recognized according to UL 94-VO, incorporated measuring resistance, and extended measuring range.

LA 03-PB, LA 05-PB, LA 10-PB, and LA 20-PB: Closed loop (compensation) current transducer using the Hall effect, voltage output, and printed circuit board mounting.

LAH 25-NP, LAH 50-P, LAH 100-P, LA 55-P, and LA 100-P: Closed loop (compensated) multi-range current transducer using the Hall effect, printed circuit board mounting, insulated plastic case recognized according to UL 94-VO.
LA 150-P: Closed loop (compensated) current transducer using the Hall effect, and printed circuit board mounting.

Fig.	Supply Voltage	Primary Nom. r.m.s. Current	Sec. Nom. r.m.s Current/ Output Voltage	Frequency Range (kHz)	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
1	5V	6A	2.5±V	200	398-1000-ND	19.20	15.36	12.29	LTS 6-NP
	5V	15A	2.5±V	200	398-1001-ND	19.20	15.36	12.29	LTS 15-NP
	5V	25A	2.5±V	200	398-1002-ND	19.20	15.36	12.29	LTS 25-NP
2	±15V	3A	±4V	150	398-1003-ND	38.00	30.40	24.32	LA 03-PB
	±15V	5A	±4V	150	398-1004-ND	38.00	30.40	24.32	LA 05-PB
	±15V	10A	±4V	150	398-1005-ND	38.00	30.40	24.32	LA 10-PB
	±15V	20A	±4V	150	398-1006-ND	38.00	30.40	24.32	LA 20-PB
3	±12 to 15V	25A	25mA	200	398-1007-ND	26.80	21.44	17.16	LAH 25-NP
	±12 to 15V	50A	25mA	200	398-1008-ND	28.80	23.04	18.44	LAH 50-P
	±12 to 15V	100A	50mA	200	398-1009-ND	31.40	25.12	20.10	LAH 100-P
4	±12 to 15V	50A	50mA	200	398-1010-ND	24.60	19.68	15.75	LA 55-P
	±12 to 15V	100A	50mA	200	398-1011-ND	30.80	24.64	19.72	LA 100-P
5	±15V	150A	75mA	150	398-1012-ND	38.40	30.72	24.58	LA 150-P

Fig. 1

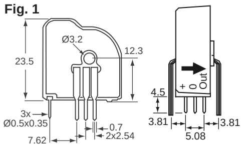


Fig. 2

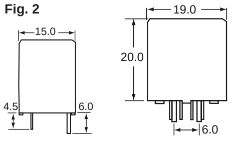


Fig. 3

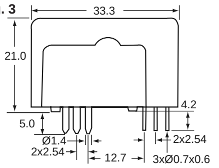


Fig. 4

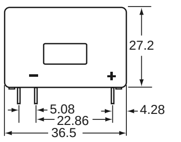
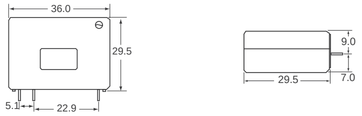


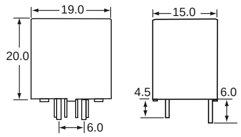
Fig. 5



Open Loop Current Transducers

HAW 03-P, HAW 05-P, HAW 07-P, HAW 10-P, HAW 15-P, and HAW 20-P: Hall effect measuring principle, galvanic isolation between primary and secondary circuit, isolation voltage 2000 V, low power consumption, and extended measuring range (2.5 x IPN).

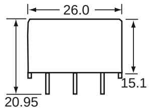
Supply Voltage	Primary Nom. r.m.s. Current	Sec. Nom. r.m.s Current/ Output Voltage	Overall Accuracy	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
±15V	3A	±4V	<±1% of IPN	398-1013-ND	22.20	17.76	14.21	HAW 03-P
±15V	5A	±4V	<±1% of IPN	398-1014-ND	22.20	17.76	14.21	HAW 05-P
±15V	7.5A	±4V	<±1% of IPN	398-1015-ND	22.20	17.76	14.21	HAW 07-P
±15V	10A	±4V	<±1% of IPN	398-1016-ND	22.20	17.76	14.21	HAW 10-P
±15V	15A	±4V	<±1% of IPN	398-1017-ND	22.20	17.76	14.21	HAW 15-P
±15V	20A	±4V	<±1% of IPN	398-1018-ND	22.20	17.76	14.21	HAW 20-P



Closed Loop Voltage Transducers

LV 25-P and LV 20-P:
Closed loop (compensated) voltage transducer using the Hall effect, and insulated plastic case recognized according to UL 94-VO.

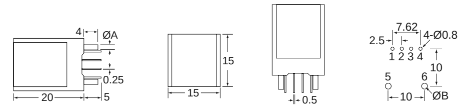
Supply Voltage	Primary Nom. r.m.s. Current	Sec. Nom. r.m.s Current/ Output Voltage	Overall Accuracy	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
±12 to 15V	10mA	25mA	±0.9%	398-1019-ND	60.00	48.00	38.40	LV 25-P
±12 to 15V	10mA	25mA	±1.1%	398-1020-ND	34.80	27.84	22.28	LV 20-P



Current Sensors

The SCD series current sensors are PC board mounted, Hall effect, open-loop devices which output a voltage equivalent to the magnitude of current sensed. Two basic sensing types are offered. Both are capable of measuring AC currents:

1. -XXN for detecting DC current and AC currents where ± input currents are represented as a + voltage only. **2.** -XXR for detecting DC current and AC currents. ± input currents are represented as ± voltage.



Pin Assignment	
Pin No.	**Pin Name**
1	+5V
2	NC
3	Output
4	0V
5	Input (+)
6	Input (-)

Mounting Hole Dimensions		
Part No.	**øA**	**øB**
SCD03	0.7	1.2
SCD05	1.0	1.5
SCD10	1.2	1.7
SCD15	1.5	2.0
SCD20	1.8	2.3

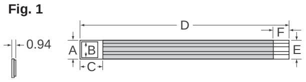
Rated Current	Output Voltage	Supply Voltage	Input Current Polarity	Response	Operating Temperature	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
+3A	2.3V	5V	+DC only	7µS typ.	-10° to +75°C	102-1050-ND	24.90	18.68	16.60	SCD03PUN
+5A	2.3V	5V	+DC only	7µS typ.	-10° to +75°C	102-1051-ND	24.90	18.68	16.60	SCD05PUN
+10A	2.3V	5V	+DC only	7µS typ.	-10° to +75°C	102-1052-ND	24.90	18.68	16.60	SCD10PUN
+15A	2.3V	5V	+DC only	7µS typ.	-10° to +75°C	102-1053-ND	24.90	18.68	16.60	SCD15PUN
+20A	2.3V	5V	+DC only	7µS typ.	-10° to +75°C	102-1054-ND	24.90	18.68	16.60	SCD20PUN
±3A	2.3V	5V	Bipolar	7µS typ.	-10° to +75°C	102-1055-ND	24.90	18.68	16.60	SCD03PUR
±5A	2.3V	5V	Bipolar	7µS typ.	-10° to +75°C	102-1056-ND	24.90	18.68	16.60	SCD05PUR
±10A	2.3V	5V	Bipolar	7µS typ.	-10° to +75°C	102-1057-ND	24.90	18.68	16.60	SCD10PUR
±15A	2.3V	5V	Bipolar	7µS typ.	-10° to +75°C	102-1058-ND	24.90	18.68	16.60	SCD15PUR
±20A	2.3V	5V	Bipolar	7µS typ.	-10° to +75°C	102-1059-ND	24.90	18.68	16.60	SCD20PUR
+3A	5V	12V	+DC only	3µS typ.	-10° to +75°C	102-1060-ND	24.90	18.68	16.60	SCD03PSN
+5A	5V	12V	+DC only	3µS typ.	-10° to +75°C	102-1061-ND	24.90	18.68	16.60	SCD05PSN
+10A	5V	12V	+DC only	3µS typ.	-10° to +75°C	102-1062-ND	24.90	18.68	16.60	SCD10PSN
+15A	5V	12V	+DC only	3µS typ.	-10° to +75°C	102-1063-ND	24.90	18.68	16.60	SCD15PSN
+20A	5V	12V	+DC only	3µS typ.	-10° to +75°C	102-1064-ND	24.90	18.68	16.60	SCD20PSN
±3A	5V	12V	Bipolar	3µS typ.	-10° to +75°C	102-1065-ND	24.90	18.68	16.60	SCD03PSR
±5A	5V	12V	Bipolar	3µS typ.	-10° to +75°C	102-1066-ND	24.90	18.68	16.60	SCD05PSR
±10A	5V	12V	Bipolar	3µS typ.	-10° to +75°C	102-1067-ND	24.90	18.68	16.60	SCD10PSR
±15A	5V	12V	Bipolar	3µS typ.	-10° to +75°C	102-1068-ND	24.90	18.68	16.60	SCD15PSR
±20A	5V	12V	Bipolar	3µS typ.	-10° to +75°C	102-1069-ND	24.90	18.68	16.60	SCD20PSR

NEW! Force Sensors

Features: • Typical Supply Voltage: 3-6VDC, Max. Voltage: 30VDC • Typical Current: 5mA, Max. Current: 20mA • Operating Temperature: +10°C to +40°C • Storage Temperature: -40°C to +70°C • Humidity: 85% RH Non-condensating

Fig.	Load (kgf) Nom.	Max.	Resistance @(Ω) No Load	Full Load	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
1	1.5	3.0	100M	15	102-1215-ND	5.88	5.29	4.75	SF-2
	1.5	3.0	100M	15	102-1218-ND	6.08	5.47	4.85	SF-3
	1.5	3.0	100M	15	102-1221-ND	6.25	5.63	4.95	SF-4
	1.5	3.0	100M	15	102-1224-ND	6.38	5.74	5.05	SF-5
	1.5	3.0	100M	15	102-1216-ND	8.63	7.77	6.35	SF-2L
	1.5	3.0	100M	15	102-1219-ND	8.75	7.88	6.45	SF-3L
	1.5	3.0	100M	15	102-1222-ND	8.10	7.20	6.55	SF-4L
	1.5	3.0	100M	15	102-1225-ND	8.21	7.30	6.65	SF-5L
	1.5	3.0	100M	15	102-1217-ND	8.66	7.70	6.95	SF-2LT
	1.5	3.0	100M	15	102-1220-ND	8.78	7.80	7.05	SF-3LT
	1.5	3.0	100M	15	102-1223-ND	8.33	7.40	6.95	SF-4LT
	1.5	3.0	100M	15	102-1226-ND	9.11	8.10	7.25	SF-5LT
2	1.5	4.0	≥500k	500	102-1212-ND	6.75	6.08	5.25	IESF-R-5
	1.5	4.0	≥500k	500	102-1213-ND	8.55	7.60	6.85	IESF-R-5L
	1.5	4.0	≥500k	500	102-1214-ND	9.45	8.40	7.45	IESF-R-5LT
3	1.5	4.0	≥500k	500	102-1211-ND	4.75	4.28	3.65	IESP-12
4	2.0	4.0	≥500k	500	102-1227-ND	17.89	15.90	15.70	SS-13

Fig. 1



Model / Item	SF-2	SF-3	SF-4	SF-5
A	2.9	3.9	4.9	5.9
B	2.1	3.1	4.1	5.1
C	4.0	5.0	5.8	7.0
D	40.0	50.0	50.0	65.0
E	2.9	3.9	4.9	5.9
F	5.0	5.0	5.5	5.0

Ordering Information

☐☐☐

Size
2 = 2mm
3 = 3mm
4 = 4mm
5 = 5mm

Blank: Flex Cable
L: Flex Cable with Lead Wires
LT: Flex Cable with Lead Wires and Connector

Fig. 2

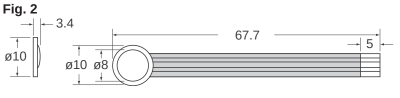


Fig. 3

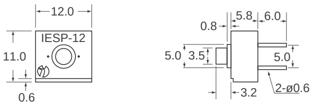
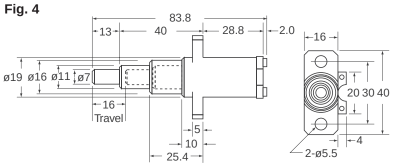


Fig. 4



TAMURA

NEW! Current Sensors

Hall Effect Technology

Hall current detector measures the magnetic flux which is produced proportionally to the current, without any contact with the primary circuit by combining the magnetic circuit and the hall element. This results in no voltage drop in the measured circuit and is an ideal solution for measuring AC/DC with an excellent galvanic isolation.

Features: • Galvanic isolation between primary and measuring circuit, measurement of DC or AC (kHz) or both • No primary losses • Quick response • High reliability by simple design of circuit. **Specifications:** • Frequency Band Width (-3dB): L01Z: DC-30kHz; L03S: DC-50kHz; L08P: DC-20kHz; L10P: DC-50kHz; L16P: DC-30kHz (At higher frequencies derating is required to prevent core from overheating.) • Output Linearity: +-1% • Operating Temperature: -10 to +80°C • Insulation Resistance: more than 500MΩ - di/dt • Response Time: 5uSec. Typ.(10uSec. Typ. for L08P Series) • Specifications are measured at +25°C, Load Resistor 10kΩ, rated supply voltage (Vcc)

Fig. 1 L01Z Series

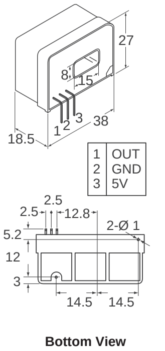


Fig. 2 L03S Series

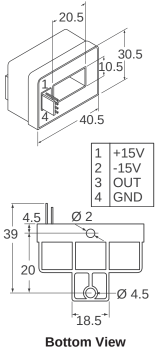


Fig. 3 L08P Series

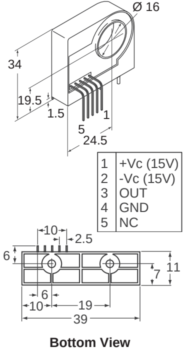


Fig. 4 L10P Series

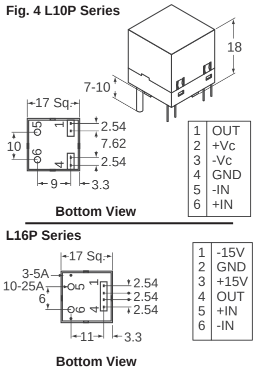


Fig.	Primary Nominal R.M.S. Current (A)	Supply Voltage (V)	Secondary Nominal Output Voltage (V) +-1%	Saturation Current (A)	Offset Temp. Coefficent (mV/°C) Max.	Digi-Key Part No.	Price Each 1	10	25	50	Tamura Part No.
L01Z Series											
1	50	5	4	62.5	+-2	MT7173-ND	16.67	14.82	12.60	11.12	L01Z050S05
	100	5	4	125	+-1	MT7174-ND	16.67	14.82	12.60	11.12	L01Z100S05
	150	5	4	187.5	+-1	MT7175-ND	16.67	14.82	12.60	11.12	L01Z150S05
	200	5	4	250	+-1	MT7176-ND	16.67	14.82	12.60	11.12	L01Z200S05
	300	5	4	375	+-1	MT7177-ND	16.67	14.82	12.60	11.12	L01Z300S05
	400	5	4	500	+-1	MT7178-ND	16.67	14.82	12.60	11.12	L01Z400S05
	500	5	4	625	+-1	MT7179-ND	16.67	14.82	12.60	11.12	L01Z500S05
	600	5	4	750	+-1	MT7180-ND	16.67	14.82	12.60	11.12	L01Z600S05
*L03S Series**											
2	50	+-15	4	+-150	+-2	MT7181-ND	15.28	13.58	11.55	10.19	L03S050D15
	100	+-15	4	+-300	+-1	MT7182-ND	15.28	13.58	11.55	10.19	L03S100D15
	200	+-15	4	+-600	+-1	MT7183-ND	15.28	13.58	11.55	10.19	L03S200D15
	300	+-15	4	+-700	+-1	MT7184-ND	15.28	13.58	11.55	10.19	L03S300D15
	400	+-15	4	+-700	+-1	MT7185-ND	15.28	13.58	11.55	10.19	L03S400D15
	500	+-15	4	+-700	+-1	MT7186-ND	15.28	13.58	11.55	10.19	L03S500D15
	600	+-15	4	+-700	+-1	MT7187-ND	15.28	13.58	11.55	10.19	L03S600D15
L08P Series											
3	50	+-15	4	+-150	+-2	MT7188-ND	15.28	13.58	11.55	10.19	L08P050D15
	100	+-15	4	+-300	+-1	MT7189-ND	15.28	13.58	11.55	10.19	L08P100D15
	150	+-15	4	+-350	+-1	MT7190-ND	15.28	13.58	11.55	10.19	L08P150D15
	200	+-15	4	+-350	+-1	MT7191-ND	15.28	13.58	11.55	10.19	L08P200D15
L10P Series											
4	3	+-15	4	+-9	+-2	MT7192-ND	12.76	11.34	9.64	8.51	L10P003D15
	5	+-15	4	+-15	+-2	MT7193-ND	12.76	11.34	9.64	8.51	L10P005D15
	10	+-15	4	+-30	+-2	MT7194-ND	12.76	11.34	9.64	8.51	L10P010D15
	15	+-15	4	+-45	+-2	MT7195-ND	12.76	11.34	9.64	8.51	L10P015D15
	20	+-15	4	+-60	+-2	MT7196-ND	12.76	11.34	9.64	8.51	L10P020D15
	25	+-15	4	+-75	+-2	MT7197-ND	12.76	11.34	9.64	8.51	L10P025D15
	30	+-15	4	+-90	+-2	MT7198-ND	12.76	11.34	9.64	8.51	L10P030D15
L16P Series											
4	3	+-15	4	+-9	+-2	MT7199-ND	12.76	11.34	9.64	8.51	L16P003D15
	5	+-15	4	+-15	+-2	MT7200-ND	12.76	11.34	9.64	8.51	L16P005D15
	10	+-15	4	+-30	+-2	MT7201-ND	12.76	11.34	9.64	8.51	L16P010D15
	15	+-15	4	+-45	+-2	MT7202-ND	12.76	11.34	9.64	8.51	L16P015D15
	20	+-15	4	+-60	+-2	MT7203-ND	12.76	11.34	9.64	8.51	L16P020D15
	25	+-15	4	+-75	+-2	MT7204-ND	12.76	11.34	9.64	8.51	L16P025D15

* Molex mating connector required.

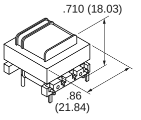
molex Waldom

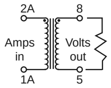
Mating Connector and Accessories

Description	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
4 Position Housing (2.50mm) KK Series	WM2022-ND	.64	5.65	37.68	150.73	22-01-1042
Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Selective Gold 15u"	WM2312-ND	—	2.54	20.32	84.66	08-55-0102
Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Gold 15u"	WM1129-ND	—	5.21	41.66	173.58	08-56-0110
Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Tin	WM2200-ND	—	.67	5.34	22.26	08-50-0114
Universal Crimp Tool	WM9999-ND	38.36	—	—	—	63811-1000
Extraction Tool	WM9927-ND	9.08	—	—	—	11-03-0022

PARALLAX POWER COMPONENTS L.L.C.

Low Frequency Current Sense Transformer





DESCRIPTION:
Designed to monitor current in low freq. applications. Frequencies from 50 Hz to 400 Hz, current from .1 to 30 amperes.

TECHNICAL NOTES:
• Turns ratio: Primary to sense 1:500 • Suggested burden resistor: 60 ohms. Hi-Pot: 2,500 volts.

Primary DCR Max. µOhms	Sense DCR Max. Ohms	Typ. Output	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
250	21	110 mV/Amp	237-1103-ND	2.89	1.89	1.60	CSE187-L

High Frequency Current Sense Transformer

DESCRIPTION: TRIAD current sense transformers are used to detect the current passing through a conductor. They are constructed of UL rated 130°C materials.

Freq. Range: 20 kHz- 200 kHz

Fig. 1

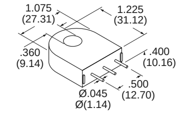


Fig. 2

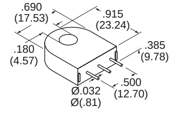


Fig.	Min. Ind. mH	ET VµSEC Ref 20 kHz	Pri. Amps	Digi-Key Part No.	Price Each 1	50	100	PPC Part No.
1	14.0	2000	110.0 RMS	237-1096-ND	6.11	3.99	3.39	CST206-1A
	14.0	2000	110.0 RMS	237-1097-ND	6.67	4.35	3.69	CST206-1T*
	56.0	4000	80.0 RMS	237-1098-ND	6.11	3.99	3.39	CST206-2A
	56.0	4000	80.0 RMS	237-1099-ND	6.67	4.35	3.69	CST206-2T*
	130.0	6000	70.0 RMS	237-1100-ND	6.11	3.99	3.39	CST206-3A
	130.0	6000	70.0 RMS	237-1101-ND	6.67	4.35	3.69	CST206-3T*
2	3.5	500	35.0 RMS	237-1104-ND	4.11	2.69	2.28	CST306-1A
	3.5	500	35.0 RMS	237-1105-ND	4.67	3.05	2.59	CST306-1T*
	14.0	1000	25.0 RMS	237-1106-ND	4.11	2.69	2.28	CST306-2A
	14.0	1000	25.0 RMS	237-1107-ND	4.67	3.05	2.59	CST306-2T*
	55.0	2000	25.0 RMS	237-1108-ND	4.11	2.69	2.28	CST306-3A
	55.0	2000	25.0 RMS	237-1109-ND	4.67	3.05	2.59	CST306-3T*

*T Suffix = Center Tapped 3-pin version

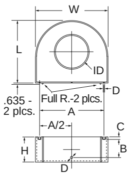
237-1102-ND (CST206-KIT) - 6 piece kit (one of each in series CST206). **$33.30**
237-1110-ND (CST306-KIT) - 6 piece kit (one of each in series CST306). **$22.22**

AMVECO
TOROIDAL POWER PRODUCTS

Current Transformer Standard Accuracy Low-Cost 50/60 Hz

Applications:
- Sensing current overload
- Ground fault detection
- Metering

Notes:
- RCF: Ratio Correction Factor. Multiple current readings by this factor to compensate for transformer losses.
- Data is deemed reliable at the time of publication, but may be subject to change without notice.

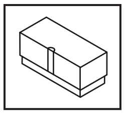


Size Code	Dimensions – mm							
	W	L	H	A	B	C	D (Dia.)	ID
A	23.83	23.83	11.13	15.24	7.62	1.75	0.81	9.53
B	30.18	30.18	14.30	20.32	10.16	2.08	1.02	11.43
C	34.93	34.93	14.30	25.40	10.16	2.08	1.02	14.61
D	38.10	38.10	15.88	30.48	10.16	2.84	1.02	14.61
E	44.45	44.45	14.30	35.56	10.16	2.08	1.02	19.05
F	55.58	55.58	20.65	45.72	12.70	3.96	1.02	23.88

Size Code	Rated Ip Amps	Turns Ratio	Nominal DCR	RCF @ 10% (1)	Volts/Amp @ Rated Ip, for Various Loads (Ohms) 100	500	2K	5K	Digi-Key Part No.	Price Each 1	10	25	Amveco Part No.
A	5.0	1000:1	39	1.040	0.10	0.45	1.35	1.8	TE1005-ND	7.80	6.50	5.20	AC-1005
A	10.0	1000:1	39	1.035	0.10	0.45	1.00	1.3	TE1010-ND	7.80	6.50	5.20	AC-1010
A	15.0	1000:1	39	1.030	0.10	0.43	0.80	1.0	TE1015-ND	7.80	6.50	5.20	AC-1015
A	20.0	1000:1	39	1.030	0.10	0.42	0.70	0.8	TE1020-ND	7.80	6.50	5.20	AC-1020
B	25.0	1000:1	46	1.020	0.10	0.40	1.00	1.2	TE1025-ND	9.21	7.68	6.14	AC-1025
B	30.0	1000:1	46	1.020	0.10	0.40	0.85	1.1	TE1030-ND	9.21	7.68	6.14	AC-1030
C	40.0	1000:1	46	1.020	0.10	0.45	0.75	1.0	TE1040-ND	10.74	8.95	7.16	AC-1040
C	50.0	1000:1	46	1.020	0.10	0.44	0.70	0.8	TE1050-ND	10.74	8.95	7.16	AC-1050
D	60.0	1000:1	23	1.020	0.10	0.36	0.60	0.7	TE1060-ND	11.76	9.80	7.84	AC-1060
D	75.0	1000:1	23	1.015	0.10	0.35	0.50	0.6	TE1075-ND	11.76	9.80	7.84	AC-1075
E	100	1000:1	20	1.015	0.10	0.35	0.50	0.6	TE1100-ND	11.76	9.80	7.84	AC-1100
F	150	1000:1	10	1.010	0.10	0.32	0.55	0.6	TE1150-ND	15.99	13.33	10.66	AC-1150
F	200	1000:1	10	1.010	0.10	0.30	0.45	0.6	TE1200-ND	15.99	13.33	10.66	AC-1200

Honeywell Sensors

3-Axis Magnetoresistive Sensor – HMC1023



Configured as three magnetoresistive sensors in x, y and z orientation, these highly sensitive sensors convert all three magnetic field axes to a differential output voltage.

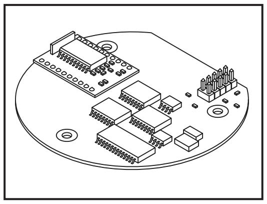
Features: • Field range of ±6 gauss, (earth's field = 0.5 gauss) while maintaining high sensitivity with a minimal detectable field down to 85 µgauss • Small package designed to work as a single stand-alone three-axis (x, y, z) magnetoresistive sensing system • Custom Ball Grid Array (BGA), 1mm pitch, 16-pin miniature package provides a small footprint and accurate sensor placement for orthogonal three-axis sensing applications • Solid state device reduces board assembly costs, improves reliability and ruggedness compared to mechanical fluxgates • Patented on-chip set/reset and offset straps have been improved and now require 50% less power to drive the set-reset and offset functions • Operates with a 3V to 25V power supply, lowering power consumption and reducing support circuitry.

Applications: • Compassing • Navigation Systems • Attitude Reference • Virtual Reality • Traffic Detection • Proximity Detection • Medical Devices

Specifications: • **Operating Temp.:** -40°C to +125°C, Ambient • **Field Range:** ±6 gauss; Full scale (FS) - total applied field • **Typ. Linearity Error:** 1.6% FS; Best fit straight line (at 25°C) ±6 Gauss • **Typ. Hysteresis Error:** 0.08% FS; 3 sweeps across ±3 Gauss @ 25°C • **Typ. Sensitivity:** 1.0mV/V/gauss; At Vbridge +5V • **Typ. Resolution:** 85 µgauss; Bandwidth=10Hz, Vbridge=5V • **Bandwidth**: 5MHz; Magnetic signal (lower limit=DC). (Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma.)

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
3-Axis Magnetoresistive Sensor	342-1006-ND	75.00	HMC1023
HMC Mounted on 16-Pin DIP Socket Demo Kit	342-1007-ND	100.00	HMC1023-PCB

3-Axis Strapdown Magnetometer –
HMR2300r



The three-axis strapdown magnetometer detects the strength and direction of the earth's magnetic field and communicates the x, y, and z component directly via serial bus. It provides an excellent replacement for conventional fluxvalve sensors commonly used in aviation systems. It offers higher reliability since it has no moving parts to damage or wear out during severe flight conditions. Low cost, high sensitivity, fast response, small size, and reliability are advantages over mechanical or other magnetometer alternatives.

Features:

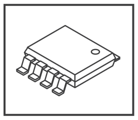
• Strapdown magnetometer replaces bulky fluxvalves • Microprocessor-based Smart Sensor • Range of ±2 Gauss: <70 µGauss Resolution • Readings can achieve heading resolution of 0.02° • Rate Selectable: 10 to 154 samples/sec. • Small Size: 2.83", fits in ML-1 Style enclosure • Repeatable and Reliable: MTBF >50,000 hours.

Applications: • Navigation Systems (Avionics and Marine) • Fluxvalve Replacement • Can be slaved to AHRS System • GPS Backup Systems • Remote Vehicle Monitoring • Unpiloted Air Vehicles (UAVs) • Navigation/Attitude for Satellites.

Specifications: • **Supply Voltage:** 6.5 to 15V; Pin 9 referenced to Pin 5 • **Typ. Supply Current:** 45mA; Vsupply=15V, (with 120W termination) • **Operating Temp:** -40°C to +85°C; Ambient • **Field Range:** ±2 gauss; Full scale (FS) - total applied field • **Typ. Linearity Error:** 0.1 / 1%FS; Best fit straight line ±1 Gauss • **Typ. Hystereis Error:** 0.01%FS; 3 sweeps across ±2 Gauss @ 25°C • **Min. Resolution:** 67µgauss; Applied field to change output. (Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma)

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-422	Round	342-1021-ND	850.00	HMR2300r-422
RS-485	Round	342-1020-ND	850.00	HMR2300r-485

1- and 2-Axis Magnetoresistive Microcircuits –
HMC1001/1002, HMC1021/1022, HMC1052, HMC1051



Configured as a 4-element wheatstone bridge, these highly sensitive sensors convert magnetic fields to a differential output voltage, capable of sensing magnetic fields as low as 30 µgauss.

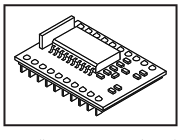
Features: • Field range up to ±6 gauss, (earth's field = 0.5 gauss) • Small package designed for 1- and 2-axis to work together to provide 3-axis (x, y, z) sensing • Solid state devices reduce board assembly costs, improve reliability and ruggedness compared to mechanical fluxgates • Patented on-chip set/reset straps to reduce effects of temperature drift, non-linearity errors and loss of signal output due to the presence of high magnetic fields • Patented on-chip offset straps for elimination of the effects of hard iron distortion. **Applications:** • Compassing • Navigation Systems • Attitude Reference • Traffic Detection • Medical Devices • Non-Contact Switch

SPECIFICATIONS: *(See notes below)*	Digi-Key Part No. 342-1001-5-ND 342-1002-5-ND	342-1003-5-ND 342-1004-5-ND 342-1005-5-ND	342-1034-5-ND 342-1029-5-ND	Conditions
Operating Temp.	-40°C to +85°C (∗)	-40°C to +85°C	-40°C to + 125°C	Ambient
Field Range	±2 gauss (†∆∗)	±6 gauss	-6 to +6 gauss	Full scale (FS) - total applied field
Linearity Error Typ	1% FS (†∆*)	1.6% FS	0.4%FS	Best fit straight line (at 25°C) ±2 Gauss (±6 Gauss for 342-1003/1004/1005-5-ND) Best fit straight line ±3 gauss for 342-1029-5-ND 3 sweeps across ±2 Gauss @ 25°C (±3 Gauss for 342-1003/1004/1005-5-ND) 3 sweeps across ±6 gauss at -40°C to +125°C for 342-1029-5-ND
Hysteresis Error Typ	0.05% FS (†∆*)	0.08% FS	0.10%	
Sensitivity Typ	3.2 mV/V/gauss († ∆)	1.0mV/V/gauss	1.0mV/Vgauss	At IOFFSET = ±50mA, Vbridge=8V (Vbridge=5V for 342-1003/1004/1005-5-ND) Set/Rest Current=0.5A for 342-1029-5-ND
Resolution Typ	27 µgauss	85 µgauss	85 µgauss	Bandwidth = 10Hz, Vbridge=5V
Bandwidth	5MHz	5MHz	5MHz	Magnetic signal (lower limit=DC)
Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma.				

Notes:
† VBridge = 4.3V, IS/R = 3.2A, T = 25°C . VOUT = VSET - VRESET
∆ If VBridge = 8.0V, IS/R = 2.0A, T = 25°C, lower S/R current leads to greater output variation.
∗ Not tested, guaranteed by characterization.

Description	Digi-Key Part No.	Price Each 1	5	25	Honeywell Part No.
8-Pin SIP, Single Axis	342-1001-5-ND	33.00	24.75	22.00	HMC1001
20-Pin SOIC, Double Axis	342-1002-5-ND	45.00	33.75	30.00	HMC1002
8-Pin SOIC, Single Axis	342-1003-5-ND	24.00	18.00	16.00	HMC1021S
8-Pin SIP, Single Axis	342-1004-5-ND	24.00	18.00	16.00	HMC1021Z
16-Pin SOIC, Double Axis	342-1005-5-ND	27.00	20.25	18.00	HMC1022
10-Pin MSOP, Double Axis	342-1029-5-ND	18.00	—	—	HMC1052
8-Pin SIP, Single Axis	342-1034-5-ND	18.00	—	—	HMC1051Z

3-Axis Magnetic Sensor Hybrid – HMC2003



A complete 3-axis magnetometer with analog output in a 20-Pin hybrid DIP package.

Features: • DIP-20 footprint (1" x .75") allows easy insertion into system-level boards, reducing development costs • Solid state components improve reliability and ruggedness compared to mechanical fluxgates • Accurately measures fields from 40 micro-gauss to ±2 gauss at 1V/gauss • Low noise instrumentation amplifiers with 1kHz low pass filters, reject unwanted noise • No flux concentrators used in this design that can lead to hysteresis and non-repeatability • An externally accessible +2.5V reference improves measurement accuracy and stability • On-board excitation current source reduces temperatures errors and regulates the power supply input • Magnetic field offsets or closed loop circuits can be applied using the built-in straps • Output signal accuracy may be enhanced by using the integral set/reset straps • All components selected and packaged in nonmagnetic material to reduce magnetic distortion and offsets.

Applications: • Compassing • Navigation Systems • Attitude Reference • Traffic Detection • Proximity Detection • Medical Devices

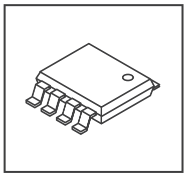
Specifications (Power Supply: +15VDC; Set/Reset switching is active): • **Operating Temp.:** -40°C to +85°C, Ambient @ 25°C • **Supply Voltage**: 6 to 15 VDC; Transient protection circuitry should be added across V+ and Gnd if an unregulated power supply is used • **Supply Current:** 20mA • **Output Voltage:** 0.5V to 4.5V • **Field Range:** ±2 gauss • **Typ. Linearity Error:** 1%FS; ±2 gauss Applied Field Sweep • **Typ. Hysteresis Error:** 0.05% FS; 3 sweeps across ±2 gauss • **Sensitivity Typ**.: 1.0mV/V/gauss; At Vbridge +5V • **Typ. Resolution:** 40 µgauss • **Bandwidth:** 1KHz (Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma.)

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
3-Axis Magnet Sensor Hybrid	342-1011-ND	199.00	HMC2003

Honeywell Sensors

Linear / Angular / Rotary Displacement Sensors –

HMC1501 / HMC1512



High resolution, low power MR sensor capable of measuring the angle direction of a magnetic field from a magnet with <0.07° resolution. Output is typical Wheatstone Bridge

Features:

• No "rare earth" magnets; functions with Alnico or ceramic type magnets • Linear range of 8mm with two sensors mounted on two ends; range may be increased through multiple sensor arrays operating together • Absolute sensing ability to know exact position and require no indexing for proper positional output • No moving parts to wear out • 8-pin SMT package • Case dimensions (exclusive of pins) of 5mm x 4mm x 1.2mm total mounting envelope, with pins of less than 6mm square • Full scale output range of 120mV with 5V of power supply.

Applications: • Linear Displacement • Angular Displacement • Motor Control • Valve Position • Proximity Detection • Current Spike Detection.

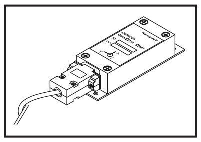
Specifications (at 25°C except stated otherwise)**:**

- **Typ. Bridge Supply:** 5V, Vbridge referenced to GND
- **Sensitivity** Vbridge =5V, field 80 Oe**:** 2.1mV/° @ zerocrossing; 1.8mV/° @ zero crossing, averaged in the range of 45°
- **Typ. Peak-to-Peak Voltage:** 120mV, Vbridge=5V, field=80 Oe
- **Bandwidth:** 0 to 5MHz, Magnetic signal
- **Typ. Hysteresis Error:** 30µV°, 1.7×10^{-2} mV°, Magnetic field ≥saturation field, Vbridge = 5V

Typ. Bridge Resistance @ 1mA	Angle Range ≥ Saturation Field	Typ. Resolution 10Hz Bandwidth Vbridge=5V <0.07°	Digi-Key Part No.	Price Each	Honeywell Part No.
5KΩ	±45°	<0.07°	342-1008-5-ND	27.00	HMC1501
2.1KΩ	±90°	<0.05°	342-1010-5-ND	27.00	HMC1512

Smart Digital Magnetometer –

HMR2300



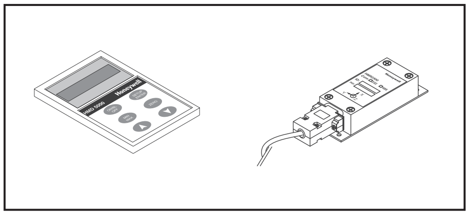
Microcontroller-Based Smart Sensor with range of ±2 Gauss; <70µGauss Resolution. Has high accuracy over ±1 Gauss; <0.5%FS; and Output Rate Selectable of 10 to 154 Samples/Sec. This sensor has a three-axis digital output, BCD ASCII or Binary, RS-232 Serial Output (9600 or 19200), and a 9-pin D-Sub connector.

Applications: • Compassing – Avionics and Marine • Remote Vehicle Monitoring (Roll/Pitch/Yaw) • Process Control • Laboratory Instrumentation • Anomaly Detection • Traffic and Vehicle Detection • Security Systems.

Specifications: • **Supply Voltage:** 6.5 to 15V; Pin 9 referenced to Pin 5 • **Typ. Supply Current:** 27mA; Vsupply=15V, with S/R=ON • **Operating Temp:** -40°C to 85°C; Ambient • **Field Range:** ±2 gauss; Full scale (FS) - total applied field • **Typ. Linearity Error:** 1%FS; Best fit straight line at 25°C ±2 Gauss • **Typ. Hystereis Error:** 0.01%FS; 3 sweeps across ±2 Gauss @ 25°C • **Min. Resolution:** 67µgauss; Applied field to change output. (Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma)

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Without Enclosure	342-1014-ND	675.00	HMR2300-D00-232
RS-232	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1015-ND	699.00	HMR2300-D20-232
RS-232	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1016-ND	699.00	HMR2300-D21-232
RS-485	Without Enclosure	342-1017-ND	675.00	HMR2300-D00-485
RS-485	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1018-ND	699.00	HMR2300-D20-485
RS-485	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1019-ND	699.00	HMR2300-D21-485
RS-232	HMR2300 Development Kit with RS-232 Output, Cables, Manual	342-1012-ND	750.00	HMR2300-Demo-232

Hand Held Display Module – HMD5000



This Hand Held Display Module for digital magnetic sensor products displays heading, pitch, and roll information when connected to the HMR3000 Digital Compass Module. If used with the HMR2300 Smart Digital Magnetometer, magnetic field readings in the X, Y and Z directions, as well as the magnitude of all three axes combined are shown. This small hand held unit has actual case dimensions of 3.60" x 5.70" x 2.09" and weighs 0.54 pounds. The interface cable is 3 feet long and has a female 9-pin "D" connector. The accuracy and resolution of the HMD500 is dependent on the instrument with which it is used (the HMR3000 or the HMR2300).

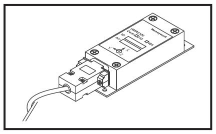
Features: • Portable, runs on batteries, easy to use in field applications.

Input Power Requirements: • **Supply Voltage:** 6-15 Vdc Unregulated • **Power:** 72mA @ 9 Vdc (300mA at Power Up).

Applications: • Compassing • Navigation Systems • Attitude Reference • Magnetic Anomoly Detection • Proximity Detection • Laboratory Instrumentation • Traffic and Vehicle Detection

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
HMD5000 Hand Held Display Module	342-1028-ND	569.00	HMD5000

Digital Compass Module – HMR3000



Electronic compass module that provides heading, pitch and roll output for navigation and guidance systems. This solid state magnetoresistive sensors make this strapdown compass both rugged and reliable. This compass provides fast response time up to 20Hz and high heading accuracy of 0.5° with 0.1° resolution.

Features: • Built with solid state magnetic sensors and no moving parts improves response time, allowing faster updates compared to gimballed fluxgates • Available as a circuit board 1.2" x 2.95", weighing less than one ounce, or in an aluminum enclosure • Operates with less than 35mA, allowing for long operation with a battery • Accuracy better than 0.5° with 0.1° resolution for critical positioning applications • Tilt range of ±40° for both the roll and pitch allows operation for most applications • Calibration routines to compensate for distortion due to nearby ferrous objects and stray fields, such as vehicles • User settings of baud rate, update rate, output format, units, filter settings, deviation angles, alarms, and warnings are stored internally in non-volatile memory.

Specifications:

• **Typical Supply Voltage:** 5.0Vdc regulated, 6-15Vdc unregulated • **Typ. Power:** 35mA @ 6Vdc Normal Operation, 13mA STOP Mode, 2.0mA SLEEP Mode • **Serial:** RS-232 / RS-485 (Half Duplex) • **Baud Rate:** 1200 to 38400 bps • **Standard:** NMEA 0183 • **Update Modes:** Continuous: 1/min to 20Hz per sentence; Strobed: selectable averaging • **Operating Temperature:** Meets or exceeds -20°C to 70°C • **Storage Temp.:** Meets or exceeds -35°C to +100°C • **Shock:** Meets or exceeds 30" drop (MIL-STD-810E:TM 516.4) • **Vibration:** Meets or exceeds 20-2000Hz Random 2 hrs/axis (MIL-STD-810E:TM 514.4).

Applications: • Oceanographic (Marine compassing; Positioning of buoys, underwater structures) • Drilling (down hole and directional) • Attitude Reference • Heading (Navigation of unmanned vehicles; Avionic compassing) • Integration with GPS (Dead Reckoning) • Satellite Antenna Positioning • Laser Range Finders (surveying applications)

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Without Enclosure	342-1024-ND	675.00	HMR3000-D00-232
RS-232	Enclosure, Extended Base	342-1025-ND	675.00	HMR3000-D21-232
RS-485	Without Enclosure	342-1026-ND	675.00	HMR3000-D00-485
RS-485	Enclosure, Extended Base	342-1027-ND	699.00	HMR3000-D21-485
HMR 3000 Development Kit, with RS-232 Output, Cables, Manual		342-1022-ND	750.00	HMR3000-Demo-232

Digital Compass Module – HMR3200/3300

Electronic compassing solutions that provide heading information for use in navigation and guidance systems. Magnetoresistive sensors are utilized to provide the reliability and accuracy of these small, solid state compass designs. These compass solutions are easily integrated into systems using a UART interface in ASCII format.

Features:

Accuracy: 1° heading accuracy, 0.1° resolution and 0.5 degrees repeatability.

Tilt Range: The HMR3300 may be operated up to a ±60° tilt range for both pitch and roll. Accuracy and performance are enhanced over a wider range of operating conditions and applications with this feature. The HMR3200 is not tilt compensated. Performance is optimized in horizontal or vertical orientations.

Low Power: Typical operating current is 18 mA for the HMR3200.

Response Time: The HMR3200 has 15Hz response time for faster updates compared to gimballed, mechanical fluxgate compasses.

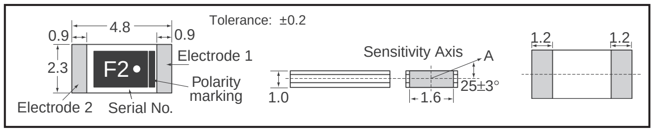
Specificatons:

- **Magnetic Field:** Range: ±2 gauss typical, Resolution: 0.1 mgauss
- **Electrical:** Input Voltage: Unregulated: 6 to 15 VDC, Regulated: 5.0 Vdc
- **Interface:** UART - User selectable baud rate 2400 to 19200 baud
- **Physical:** Dimensions - Conditions: Circuit board, 1.0" x 1.45" x 0.4" (25.4 x 36.8 x 1.1 mm)

Header Pin Assignment	
Pin No.	Pin Name
1	SCK
2	RX/SDI
3	TX/SDO
4	CS
5	CAL
6	5V
7	GND
8	+V

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
UART	Digital Compass Module 2-axis	342-1030-ND	335.00	HMR3200
UART	Digital Compass Module 3-axis	342-1032-ND	450.00	HMR3300
HMR 3200 Development Kit, with RS232 Output, Cables, Manual		342-1031-ND	399.00	HMR3200-Demo-232
HMR 3300 Development Kit, with RS232 Output, Cables, Manual		342-1033-ND	499.00	HMR3300-Demo-232

Panasonic. Piezoelectric Sensor for Mechanical Shock



Usage: • Detect external shock applied to HDD • Prevents tracking error due to vibration of audio equipment
Features: • Small size and light weight • Wide range frequency response 80 ~ 10,000Hz (Rin=10Mµ) • Voltage sensitivity 0.1mV/(m/s2) typ • Incident angle 0, 25, 45°

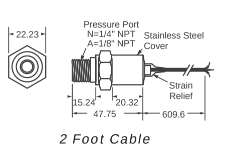
Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
Shock Sensor	P11437CT-ND	1.71	1.29	.99	P11437TR-ND	799.40/M	EFJ-G25EF01

MEASUREMENT SPECIALTIES

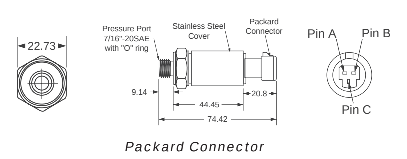
Rugged Stainless Steel Pressure Transducers Featuring Microfused Technology

The MSP pressure transducer is designed for high-volume, low-cost commercial, industrial and off road applications which require accurate measurement of gases or liquids. Operating ranges up to 10,000 psi is available with your choice of output signal in volts, millivolts, or milliamps. The MSP uses a micro machined silicon strain gauge inorganically bonded to a machined stainless steel diaphragm; no welds, no 0-rings, no silicone oil. All wetted surfaces are stainless steel and all signal conditioning electronics are housed in a stainless steel cover which provides protection from hostile environments. The housing is sealed and requires no maintenance. Each transducer is thoroughly tested and calibrated before shipment.

Applications: • Pumps and Compressors • Hydraulic / Pneumatic Systems • Energy and Water Management • Pressure Instrumentation • Process Control, Off Road Refrigeration, HVAC.



2 Foot Cable



Packard Connector

	MSP-300	MSP-310	MSP-320	MSP-400	MSP-600
Pressure Range (PSIG)	0-100 to 10,000	0-100 to 10,000	0-25 to 75	0-100 to 10,000	0-25 to 10,000
Temperature Output	None	10mV/K	None	None	None
Accuracy (combined linearity, hysteresis & repeatability)	±1% of FS	±1% of FS	±1% of FS	±0.5% of FS	±0.25% BSL
Pressure Overload	2X	2X	2X	2X	2X
Burst Pressure	5x or 20,000 PSI whichever is less		10x or 500 PSI whichever is less	5x or 20,000 PSI whichever is less	
Outputs VDC or mA	0-100mV, 1-5V 4-20mA	0-100mV —	1-5V 4-20mA	0.5-4.5V, 1-5V, 4-20mA	0.5-4.5V 1-5V, 4-20mA
Zero Offset (millivolt output) (amplified output)	±3% of FS ±2% of FS	±3% of FS —	— ±2% of FS	— ±2% of FS	— —
Span Tolerance	±2% of FS	±2% of FS	±2% of FS	±2% of FS	—
Long-Term Stability, Typical (1 year)	±.25%	±.25%	±.5%	±.25%	±0.25%
Operating Temperature (°F) (°C)	(-4 to 185) (-20 to 85)	(-4 to 185) (-20 to 85)	(-4 to 185) (-20 to 85)	(-40 to 185) (-40 to 85)	(-40 to 257) (-40 to 125)
Compensated Range (°F) (°C)	30 to 130 0 to 55	30 to 130 0 to 55	30 to 130 0 to 55	30 to 158 0 to 70	(-4 to 185) (-20 to 85)
Thermo Zero Shift	<±2% of FS	<±2% of FS	<±2% of FS	<±1.5% of FS	—
Thermo Span Shift	<±2% of FS	<±2% of FS	<±2% of FS	<±1.5% of FS	—
Total Error Band	N/A	N/A	N/A	N/A	1.5% of FS
EMI/RFI Protection, CE Mark	No	No	No	Yes	Yes
UL Listed	Yes	No	Yes	Yes	Yes

MSP Series	Op. Pressure Range PSIG	Supply	Digi-Key Part No.	Price Each 1	Price Each 10	MSI Part No.
0-100mV Output — 4 Wire Unamplified 1/4" NPT, 2 ft. Cable						
300	100	5 VDC	MSP3101P1-ND	70.00	59.50	2000130
	250		MSP3251P1-ND	70.00	59.50	2000199
	500		MSP3501P1-ND	70.00	59.50	2000255
	1000		MSP3102P1-ND	70.00	59.50	2000045
	2500		MSP3252P1-ND	70.00	59.50	2000222
	5000		MSP3502P1-ND	70.00	59.50	2000096
	10000		MSP3103P1-ND	70.00	59.50	2000157
0.5-4.5 V Output — Ratiometric output voltage to input voltage 3 Wire supply current 10mA max. 1/4" NPT, 2 ft. Cable						
300	100	5 VDC	MSP3101P2-ND	90.00	72.00	2000131
	250		MSP3251P2-ND	90.00	72.00	2000202
	500		MSP3501P2-ND	90.00	72.00	2000260
	1000		MSP3102P2-ND	90.00	72.00	2000046
	2500		MSP3252P2-ND	90.00	72.00	2000223
	5000		MSP3502P2-ND	90.00	72.00	2000099
	10000		MSP3103P2-ND	90.00	72.00	2000158
1-5 V Output — Fixed - 3 Wire supply current 10mA max. 1/4" NPT, 2 ft. Cable						
300	100	10-32 VDC	MSP3101P3-ND	95.00	76.00	2000133
	250		MSP3251P3-ND	95.00	76.00	2000204
	500		MSP3501P3-ND	95.00	76.00	2000262
	1000		MSP3102P3-ND	95.00	76.00	2000048
	2500		MSP3252P3-ND	95.00	76.00	2000226
	5000		MSP3502P3-ND	95.00	76.00	2000100
	10000		MSP3103P3-ND	95.00	76.00	2000159
1-5V Output 1/8" NPT, 2 ft. Cable						
300	100	10-32 VDC	MSP3101P4A1-ND	95.00	76.00	2000132
	250		MSP3251P4A1-ND	95.00	76.00	2000203
	500		MSP3501P4A1-ND	95.00	76.00	2000261
	1000		MSP3102P4A1-ND	95.00	76.00	2000047
4-20mA Output — 2 Wire regulated supply 1/4" NPT, 2 ft. Cable						
300	100	10-32 VDC	MSP3101P4-ND	100.00	80.00	2000137
	250		MSP3251P4-ND	100.00	80.00	2000207
	500		MSP3501P4-ND	100.00	80.00	2000264
	1000		MSP3102P4-ND	100.00	80.00	2000050
	2500		MSP3252P4-ND	100.00	80.00	2000227
	5000		MSP3502P4-ND	100.00	80.00	2000101
	10000		MSP3103P4-ND	100.00	80.00	2000160
4-20mA Output 1/8" NPT, 2 ft. Cable						
300	100	10-32 VDC	MSP3101P5A1-ND	100.00	80.00	2000136
	250		MSP3251P5A1-ND	100.00	80.00	2000206
	500		MSP3501P5A1-ND	100.00	80.00	2000263
	1000		MSP3102P5A1-ND	100.00	80.00	2000049

MSP Series	Op. Pressure Range PSIG	Supply	Digi-Key Part No.	Price Each 1	Price Each 10	MSI Part No.
0-100mV with Temperature Output — 5 Wire 1/4" NPT, 2 ft. Cable						
310	100	5 VDC	MSP1101P1-ND	100.00	81.50	2000290
	250		MSP1251P1-ND	100.00	81.50	2000295
	500		MSP1501P1-ND	100.00	81.50	2000299
	1000		MSP1102P1-ND	100.00	81.50	2000286
	2500		MSP1252P1-ND	100.00	81.50	2000296
	5000		MSP1502P1-ND	100.00	81.50	2000658
	10000		MSP1103P1-ND	100.00	81.50	2000291
1-5 V Output — Fixed — 3 Wire supply current 10mA max. 1/4" NPT, 2 ft. Cable						
320	25	10-30 VDC	MSP2025P3-ND	110.00	88.00	2000314
	50		MSP2050P3-ND	110.00	88.00	2000329
	75		MSP2075P3-ND	110.00	88.00	2000335
4-20mA Output — 2 Wire regulated supply 1/4" NPT, 2 ft. Cable						
320	25	10-30 VDC	MSP2025P4-ND	115.00	98.00	2000316
	50		MSP2050P4-ND	115.00	98.00	2000330
	75		MSP2075P4-ND	115.00	98.00	2000336
0.5-4.5 V Output — Ratiometric output voltage to input voltage 3 Wire supply current 10mA max. 1/4" NPT, 2 ft. Cable						
400	100	5 VDC	MSP4101P2-ND	100.50	86.00	2000473
	250		MSP4251P2-ND	100.50	86.00	2000519
	500		MSP4501P2-ND	100.50	86.00	2000550
	1000		MSP4102P2-ND	100.50	86.00	2000415
	2500		MSP4252P2-ND	100.50	86.00	2000527
	5000		MSP4502P2-ND	100.50	86.00	2000454
	10000		MSP4103P2-ND	100.50	86.00	2000497
1-5 V Output — Fixed – 3 Wire supply current 10mA max. 1/4" NPT, 2 ft. Cable						
400	100	10-32 VDC	MSP4101P3-ND	106.00	99.50	2000484
	250		MSP4251P3-ND	106.00	99.50	2000521
	500		MSP4501P3-ND	106.00	99.50	2000553
	1000		MSP4102P3-ND	106.00	99.50	2000416
	2500		MSP4252P3-ND	106.00	99.50	2000528
	5000		MSP4502P3-ND	106.00	99.50	2000455
	10000		MSP4103P3-ND	106.00	99.50	2000498
4-20mA Output — 2 Wire regulated supply 1/4" NPT, 2 ft. Cable						
400	100	10-32 VDC	MSP4101P4-ND	152.00	121.25	2000486
	250		MSP4251P4-ND	152.00	121.25	2000522
	500		MSP4501P4-ND	152.00	121.25	2000554
	1000		MSP4102P4-ND	152.00	121.25	2000417
	2500		MSP4252P4-ND	152.00	121.25	2000531
	5000		MSP4502P4-ND	152.00	121.25	2000457
	10000		MSP4103P4-ND	152.00	121.25	2000499

MSP Series	Op. Pressure Range PSIG	Supply	Digi-Key Part No.	Price Each 1	Price Each 10	MSI Part No.
0.5-4.5VDC Output — 1/4" NPT, 2 ft. Cable						
600	25	5 VDC	MSP6025P3-1-ND	110.50	96.00	2000871
	50		MSP6050P3-1-ND	110.50	96.00	2000877
	75		MSP6075P3-1-ND	110.50	96.00	2000883
	100		MSP6101P3-1-ND	110.50	96.00	2000889
	250		MSP6251P3-1-ND	110.50	96.00	2000895
	500		MSP6501P3-1-ND	110.50	96.00	2000901
	1000		MSP6102P3-1-ND	110.50	96.00	2000907
	2500		MSP6252P3-1-ND	110.50	96.00	2000913
	5000		MSP6502P3-1-ND	110.50	96.00	2000919
	7500		MSP6752P3-1-ND	110.50	96.00	2000925
	10000		MSP6103P3-1-ND	110.50	96.00	2000931
0.5-4.5VDC Output — 7/16" SAE, Packard Connector						
600	25	5 VDC	MSP6025P3-4-ND	110.50	96.00	2000964
	50		MSP6050P3-4-ND	110.50	96.00	2000965
	75		MSP6075P3-4-ND	110.50	96.00	2000966
	100		MSP6101P3-4-ND	110.50	96.00	2000967
	250		MSP6251P3-4-ND	110.50	96.00	2000968
	500		MSP6501P3-4-ND	110.50	96.00	2000969
	1000		MSP6102P3-4-ND	110.50	96.00	2000970
	2500		MSP6252P3-4-ND	110.50	96.00	2000971
	5000		MSP6502P3-4-ND	110.50	96.00	2000972
	7500		MSP6752P3-4-ND	110.50	96.00	2001116
	10000		MSP6103P3-4-ND	110.50	96.00	2000973
1-5VDC Output — 1/4" NPT, 2 ft. Cable						
600	25	10-30 VDC	MSP6025P4-1-ND	116.00	109.50	2000872
	50		MSP6050P4-1-ND	116.00	109.50	2000878
	75		MSP6075P4-1-ND	116.00	109.50	2000884
	100		MSP6101P4-1-ND	116.00	109.50	2000890
	250		MSP6251P4-1-ND	116.00	109.50	2000896
	500		MSP6501P4-1-ND	116.00	109.50	2000902
	1000		MSP6102P4-1-ND	116.00	109.50	2000908
	2500		MSP6252P4-1-ND	116.00	109.50	2000914
	5000		MSP6502P4-1-ND	116.00	109.50	2000920
	7500		MSP6752P4-1-ND	116.00	109.50	2000926
	10000		MSP6103P4-1-ND	116.00	109.50	2000932
4-20mA Output— 1/4" NPT, 2 ft. Cable						
600	25	10-30 VDC	MSP6025P5-1-ND	162.00	131.25	2000873
	50		MSP6050P5-1-ND	162.00	131.25	2000879
	75		MSP6075P5-1-ND	162.00	131.25	2000885
	100		MSP6101P5-1-ND	162.00	131.25	2000891
	250		MSP6251P5-1-ND	162.00	131.25	2000897
	500		MSP6501P5-1-ND	162.00	131.25	2000903
	1000		MSP6102P5-1-ND	162.00	131.25	2000909
	2500		MSP6252P5-1-ND	162.00	131.25	2000915
	5000		MSP6502P5-1-ND	162.00	131.25	2000921
	7500		MSP6752P5-1-ND	162.00	131.25	2000927
	10000		MSP6103P5-1-ND	162.00	131.25	2000933

UltraStable™ Stainless Steel Pressure Sensors

Ribbon Cable with Connector

Features:

• Gage Pressure type • -20°C to +85°C Compensated temp. range • ±1.0% Interchangeable Span (provided by gain set resistor) • High performance • Small profile • Solid State reliability • Low power • +0.1% Pressure non-linearity **Specifications:** • **Output:** 0-100mV • **Supply Current:** 1.5mA typ. (guarantees output/input ratio-metricity) • **Operating Temperature:** -40°C to +125°C

Model 85 – 316L:

This micro-machined piezoresistive silicon pressure sensor is designed for applications where compatibility with corrosive media must be maintained. The sensor chip is mounted on a TO style header, which is resistance welded to a 316 stainless steel package, sealing a small volume of silicone oil between the diaphragm and the sensor chip. The ISO pressure housing utilizes the oil column to couple the piezoresistive sensor to the isolation diaphragm. A thick film ceramic compensation board with laser trimmed resistors, and an additional gain set resistor to normalize pressure sensitivity are an integral part of the sensor package.

Model 86 – 316L:

This is a small profile, media compatible, piezoresistive silicon pressure sensor packaged in a 316L stainless steel housing and is designed for O-ring mounting. The sensing package utilizes silicone oil to transfer pressure from the 316L stainless steel diaphragm to the sensing element. It is designed for high performance, low pressure applications. A ceramic substrate is attached to the package that contains laser-trimmed resistors for temperature compensation and offset correction. An additional laser-trimmed resistor is included which can be used to adjust an interchangeability to within ±1%.

Fig. 1

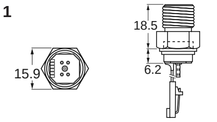


Fig. 2

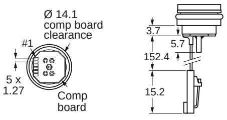


Fig.	Pressure	Output Load Res.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	MSI Part No.
Model 85 — 1/4 - 18 NPT							
1	0-15 PSIG	5mW Min.	MSP6853-ND	126.00	96.00	70.01	85-015G-4C
	0-30 PSIG		MSP6854-ND	126.00	96.00	70.01	85-030G-4C
	0-50 PSIG		MSP6855-ND	126.00	96.00	70.01	85-050G-4C
	0-100 PSIG		MSP6856-ND	126.00	96.00	70.01	85-100G-4C
	0-300 PSIG		MSP6857-ND	126.00	96.00	70.01	85-300G-4C
	0-500 PSIG		MSP6858-ND	126.00	96.00	70.01	85-500G-4C
Model 86 — O-Ring Flush Mount							
2	0-15 PSIG	1mW Min.	MSP6859-ND	105.00	74.00	54.01	86-005G-C
	0-15 PSIG		MSP6860-ND	105.00	74.00	54.01	86-015G-C
	0-30 PSIG		MSP6861-ND	105.00	74.00	54.01	86-030G-C
	0-50 PSIG		MSP6862-ND	105.00	74.00	54.01	86-050G-C
	0-100 PSIG		MSP6863-ND	105.00	74.00	54.01	86-100G-C
	0-300 PSIG		MSP6864-ND	105.00	74.00	54.01	86-300G-C
	0-500 PSIG		MSP6865-ND	105.00	74.00	54.01	86-500G-C

MEASUREMENT SPECIALTIES

PC Board Mountable Pressure Sensors Temperature Compensated, Dip/TO-8 Package

These pressure sensors are intended for cost sensitive applications where excellent performance and long-term stability are required. Integral temperature compensation is provided using laser-trimmed resistors. An additional laser-trimmed resistor is included to normalize pressure sensitivity variations by programming the gain of an external differential amplifier. This provides sensitivity interchangeability of ±1%.

Features: • ±0.1% Non-linearity • ±1.0% Interchangeable Span (provided by gain set resistor) • Solid State Reliability • Low Power

Specifications: • **Output:** 0-100mV typ. (full scale) • **Supply Current:** 1.5mA typ. • **Response Time:** 1.0mSec typ. (For a zero-to-full scale pressure step change) • **Operating Temp.:** -40°C to +125°C

Model 1210/1220 – Low Pressure • 0-50°C Temp. Compensation • 1.0% Temp. Performance

Model 1230/1240 – UltraStable™ • -20°C to +85°C Temp. Compensation • ±0.5% Temp. Performance

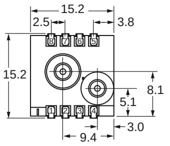
Model 1210/1220 – Medium Pressure • 0-50°C Temp. Compensation • 0.5-1% Temp. Performance

Models 13, 23, 33, 43 – Medium Pressure • 0-50°C Temp. Compensation • ±0.5% Temp. Performance

Models 17, 27, 37 – UltraStable™ • -20°C to +85°C Temp. Compensation Range • ±0.5% Temp. Performance

Fig.	Pressure	Pressure Type	Package	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
Model 1210 / 1220 - Low and Medium Pressure								
1	0-2-PSID	Differential	8-Pin Dip	MSP6814-ND	33.00	23.70	15.24	1210A-002D-3L
	0-5 PSID	Differential	8-Pin Dip	MSP6816-ND	39.00	28.00	18.00	1220A-005D-3L
Model 1230 / 1240 - Ultrastable™								
1	0-15 PSID	Differential	8-Pin Dip	MSP6819-ND	33.00	28.00	18.00	1240-015D-3L
	0-30 PSID	Differential	8-Pin Dip	MSP6822-ND	33.00	28.00	18.00	1230-030D-3L
	0-100 PSID	Differential	8-Pin Dip	MSP6828-ND	33.00	28.00	18.00	1230-100D-3L
	0-100 PSID	Differential	8-Pin Dip	MSP6829-ND	33.00	28.00	18.00	1240-100D-3L
Model 13 - Low and Medium Pressure								
2	0-1 PSIG	Gage	TO-8	MSP6830-ND	72.00	53.00	38.00	13A-001G
	0-5 PSIG	Gage	TO-8	MSP6833-ND	72.00	53.00	38.00	13A-005G
Model 17 - Ultrastable™								
2	0-15 PSIG	Gage	TO-8	MSP6834-ND	60.00	53.00	38.00	17-015G
	0-30 PSIG	Gage	TO-8	MSP6835-ND	60.00	53.00	38.00	17-030G
	0-50 PSIG	Gage	TO-8	MSP6836-ND	60.00	53.00	38.00	17-050G
	0-100 PSIG	Gage	TO-8	MSP6837-ND	60.00	53.00	38.00	17-100G
Model 23 - Low and Medium Pressure								
3	0-1 PSIG	Gage	TO-8	MSP6831-ND	90.00	61.00	50.00	23A-001G
	0-5 PSIG	Gage	TO-8	MSP6838-ND	90.00	61.00	50.00	23A-005G
Model 27 - Ultrastable™								
3	0-15 PSIG	Gage	TO-8	MSP6839-ND	69.00	61.00	50.00	27-015G
	0-30 PSIG	Gage	TO-8	MSP6840-ND	69.00	61.00	50.00	27-030G
	0-50 PSIG	Gage	TO-8	MSP6841-ND	69.00	61.00	50.00	27-050G
	0-100 PSIG	Gage	TO-8	MSP6842-ND	69.00	61.00	50.00	27-100G
Model 33 - Low and Medium Pressure								
4	0-1 PSID	Differential	TO-8	MSP6832-ND	90.00	61.00	50.00	33A-001D
	0-5 PSID	Differential	TO-8	MSP6843-ND	90.00	61.00	50.00	33A-005D
Model 37 - Ultrastable™								
4	0-15 PSID	Differential	TO-8	MSP6844-ND	69.00	61.00	50.00	37-015D
	0-30 PSID	Differential	TO-8	MSP6845-ND	69.00	61.00	50.00	37-030D
	0-50 PSID	Differential	TO-8	MSP6846-ND	69.00	61.00	50.00	37-050D
	0-100 PSID	Differential	TO-8	MSP6847-ND	69.00	61.00	50.00	37-100D
Model 43 - Low and Medium Pressure								
5	0-15 PSIA	Absolute	TO-8	MSP6848-ND	60.00	53.00	38.00	43-015A
	0-30 PSIA	Absolute	TO-8	MSP6849-ND	60.00	53.00	38.00	43-030A
	0-50 PSIA	Absolute	TO-8	MSP6850-ND	60.00	53.00	38.00	43-050A
	0-100 PSIA	Absolute	TO-8	MSP6851-ND	60.00	53.00	38.00	43-100A

Dual-In-Line Package



TO-8 Package

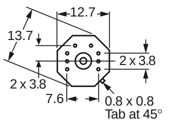
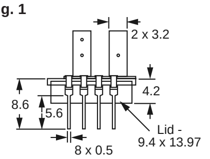


Fig. 1



Tube Length: 470 (±5mil.)

Fig. 2

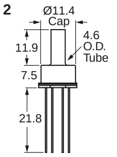


Fig. 3

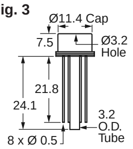


Fig. 4

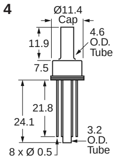
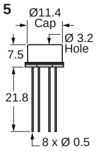
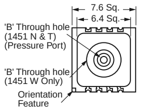


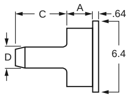
Fig. 5



PC Board Mountable Pressure Sensors

Model 1451 This pressure sensor is intended for high volume applications where small size, light weight, low cost, and compatibility with automated assembly equipment are required. **Features:** • Surface Mount Package • ±0.25% Pressure Non-linearity • 3 Pressure Port Options • Solid State Reliability • Low Power **Specifications:** • **Output:** 0-60mV • **Supply Voltage:** 3VDC • **Response Time:** 1.0mSec typ. • **Operating Temperature:** -40°C to +125°C





Package	Dimensions (mm) A	B	C	D
Narrow Hole	2.79	0.78	—	—
Wide Hole	2.79	4.06	—	—
Tube	2.79	0.78	5.59	2.29

Pressure	Pressure Type	Package	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
0-5 PSIG	Gage	Tube	MSP6800-ND	20.00	19.00	11.00	1451-005G-T
0-5 PSIA	Absolute	Wide	MSP6801-ND	20.00	19.00	11.00	1451-005A-W
0-15 PSIA	Absolute	Narrow	MSP6802-ND	20.00	19.00	11.00	1451-015A-N
0-15 PSIG	Gage	Tube	MSP6803-ND	20.00	19.00	11.00	1451-015G-T
0-15 PSIA	Absolute	Wide	MSP6804-ND	20.00	19.00	11.00	1451-015A-W
0-30 PSIA	Absolute	Narrow	MSP6805-ND	20.00	19.00	11.00	1451-030A-N
0-30 PSIG	Gage	Tube	MSP6806-ND	20.00	19.00	11.00	1451-030G-T
0-30 PSIA	Absolute	Wide	MSP6807-ND	20.00	19.00	11.00	1451-030A-W
0-50 PSIA	Absolute	Narrow	MSP6808-ND	20.00	19.00	11.00	1451-050A-N
0-50 PSIG	Gage	Tube	MSP6809-ND	20.00	19.00	11.00	1451-050G-T
0-50 PSIA	Absolute	Wide	MSP6810-ND	20.00	19.00	11.00	1451-050A-W
0-100 PSIA	Absolute	Narrow	MSP6811-ND	20.00	19.00	11.00	1451-100A-N
0-100 PSIG	Gage	Tube	MSP6812-ND	20.00	19.00	11.00	1451-100G-T
0-100 PSIA	Absolute	Wide	MSP6813-ND	20.00	19.00	11.00	1451-100A-W

Accelerometers – PC Board Mountable

Description:
These piezoresistive silicon accelerometers consist of a micro machined silicon mass suspended by multiple beams from a silicon frame. Piezoresistors located in the beams change their resistance as the motion of the suspended mass changes the strain in the beams. Silicon caps on the top and bottom of the devices are added to provide over-range stops. This design provides for a very low profile, high shock resistance, durability and built-in damping over a wide usable bandwith.

Features:
• ±0.5% Non-linearity, (typ.), ±2% max. (Best fit straight line; for full scale range of 10g or less) • DC Response • Built-in damping • Built-in overrange stops • Low power

Model 3031 - Surface Mount A piezoresistive silicon accelerometer intended for high volume applications where small size, light weight, and low cost are required. **Specifications:** • ±1.0% Temp. Performance (with comp resistors, typical) • Supply: 5.0 VDC (typ.) • Operating Temp.: -40°C to +125°C

Model 3022 - Adhesive Mount A piezoresistive silicon accelerometer packaged on a ceramic substrate with an epoxy sealed ceramic cover and is designed for adhesive mounting. **Specifications:** • ±1.0% Temp. Performance (with comp resistors, typical) • Supply (typ.): 5.0 VDC • Operating Temp.: -40°C to +125°C

Model 3052 - Adhesive Mount A piezoresistive silicon accelerometer with integral temp. compensation packaged on a ceramic substrate with an epoxy sealed ceramic cover and is designed for adhesive mounting. **Specifications:** • ±1.0% Temp. Performance (typ.) • Supply (typ.): 5.0 VDC • Operating Temp.: -40°C to +125°C

Model 3140 - Bolt Mount A high performance accelerometer intended for instrumentation applications provides a fully signal conditioned output with performance similar to traditional instrumentation accelerometers but at a much lower cost. The accelerometer consists of a silicon micro machined accelerometer with signal conditioning electronics in a lightweight Valox™ housing that can be easily attached to a mounting surface. The sensing element is a micro machined silicon mass suspended by multiple beams from a silicon frame. **Specifications:** • ±2.0% Temp. Performance • Supply (typ.) 12 VDC @ 5mA • Operating Temp.: -20°C to +85°C

Fig. 1 — Model 3031

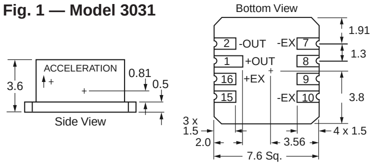


Fig. 2 — Models 3022 and 3052

	Dim. (mm) A	B
2g to 10g	7.62	6.35
20g to 500g	6.73	6.10

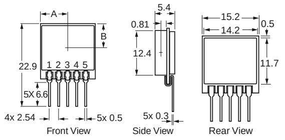
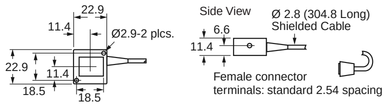


Fig. 3 — Model 3140



Dimensions in mm

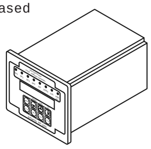
Fig.	Acceleration Range	Sensitivity (Min./Max.)	Acceleration Output Max.	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
1	±0-50 G	0.6/1.5 mV/g	±25.0mV	MSP6869-ND	77.00	74.00	42.00	3031-050
2	±2 G	8.0.20.0 mV/g	±25.0mV	MSP6871-ND	150.00	108.00	80.00	3022-002-P
	±5 G	6.0/15.0 mV/g	±25.0mV	MSP6872-ND	150.00	108.00	80.00	3022-005-P
	±10 G	3.0/6.0 mV/g	±25.0mV	MSP6873-ND	150.00	108.00	80.00	3022-010-P
	±50 G	0.6/1.5 mV/g	±25.0mV	MSP6875-ND	123.00	95.00	65.01	3022-050-P
	±100 G	0.3/0.6 mV/g	±25.0mV	MSP6876-ND	123.00	95.00	65.01	3022-100-P
2	±2 G	6.0/9.0 mV/g*	±2mV	MSP6877-ND	195.00	136.00	102.00	3052-002-P
	±5 G	2.4/3.6 mV/g*	±2mV	MSP6878-ND	195.00	136.00	102.00	3052-005-P
	±10 G	1.2/1.8 mV/g*	±2mV	MSP6879-ND	195.00	136.00	102.00	3052-010-P
	±50 G	0.24.0.36 mV/g*	±2mV	MSP6881-ND	144.00	124.00	90.00	3052-050-P
	±100 G	0.12/0.18 mV/g*	±2mV	MSP6882-ND	144.00	124.00	90.00	3052-100-P
3	±2 G	1 V/g	2.54V	MSP6883-ND	495.00	345.00	280.01	3140-002
	±5 G	400mV/g	2.54V	MSP6884-ND	495.00	345.00	280.01	3140-005
	±10 G	200mV/g	2.54V	MSP6885-ND	495.00	345.00	280.01	3140-010
	±50 G	40mV/g	2.54V	MSP6887-ND	495.00	345.00	280.01	3140-050
	±100 G	20mV/g	2.54V	MSP6888-ND	495.00	345.00	280.01	3140-100

* Positive voltage change for positive acceleration: negative voltage change for negative acceleration.

SCHAEVITZ SENSORS

Sensors MP1000 Readout/Controller

The Schaevitz microprocessor-based LVDT indicator and set-point controller is designed for industrial and process control applications utilizing any LVDT/RVDT based measurement device. A 16-bit analog to digital converter provides high speed performance and resolution. An RS-232 output will communicate data to any standard PLC or computer serial port. 1/4 DIN case.

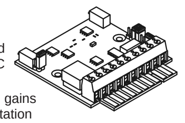


Application: RS-232 data collection for SPC

Features: • Simultaneous dual channel display • Opto-isolated set-point outputs • Digitally scaled analog output • Digitally controlled analog zero suppression • CE approval pending (mid 1998) • Programmable digital filtering

Description	Operating Temp.	Power Requirements	Digi-Key Part No.	Price Each 1	5	10	Schaevitz MSI Part No.
Single Channel LVDT	0° to 55°C	100 - 250 VAC, 50-60Hz	356-1000-ND	899.00	845.00	802.00	02291328-000

DC Powered Voltage Module

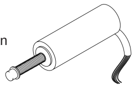


The LVM-110 Module is a DC-powered LVDT signal conditioner board consisting of a carrier oscillator, AC amplifier, demodulator, filter, and DC amplifier.

Features: • DC powered • Zero and span controls • Six jumper selectable gains • Plug-in, card edge, or stand-off installation • 2.5 kHz, 5 kHz or 10 kHz excitation

Description	Operating Range	Power Range	Digi-Key Part No.	Price Each 1	5	10	Schaevitz MSI Part No.
LVDT Signal Conditioner Board	3.5 ± 10% Vrms	2.5kHz, 5kHz, 10kHz	356-1001-ND	177.00	165.00	155.00	04171776-000

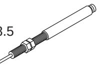
PCA-116 Series Economy Gage Heads



PCA-116 gage heads incroporate a standardized LVDT with repeatability better than 0.0001" (0.0025 mm) and linearity within 0.5% of full range output. The probe shaft is externally sprung and is carried on low friction nylon sleeve bearings.

PCA-116 Series Model No.	Linear Range Inches (mm)	Digi-Key Part No.	Price Each 1	5	10	Schaevitz MSI Part No.
PCA-116-100	±0.10 (2.54)	356-1002-ND	105.00	95.00	88.80	02350531-000
PCA-116-200	±0.20 (5.08)	356-1003-ND	124.00	111.00	104.40	02350532-000
PCA-116-300	±0.30 (7.62)	356-1004-ND	146.00	131.00	122.40	02350533-000

GCD-SE Series Gage Heads - Precision Spring-Loaded

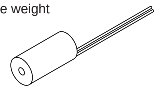


Features:
• CE compliance • Heavy-duty, all welded construction • Unipolar ranges: 0.1" to 2.0" • 8.5 to 28 VDC operation • Low power consumption • May be battery operated • 0 to 5 and 1 to 6 VDC outputs • New heavy duty front end • Hermetically sealed design

GCD-SE Series Model No.	Linear Range Inches (mm)	Digi-Key Part No.	Price Each 1	5	10	Schaevitz MSI Part No.
GCD-SE-100	0.10 (2.54)	356-1005-ND	480.00	429.01	403.20	02351006-000
GCD-SE-250	0.25 (6.35)	356-1006-ND	544.00	486.00	457.20	02351007-000
GCD-SE-500	0.50 (12.7)	356-1007-ND	617.00	552.00	518.40	02351008-000
GCD-SE-1000	1.0 (25.4)	356-1008-ND	704.00	630.00	591.60	02351009-000
GCD-SE-2000	2.0 (50.8)	356-1009-ND	800.00	716.00	672.00	02351010-000

LVDT MHR Series

The MHR series of miniature LVDT's is ideal for applications where excessive core weight could influence the motion of sensitive mechanisms.

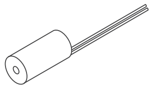


Features: • For applications where installation space or weight is limited • Lightweight core • Calibration certificate supplied with all models • Compatible with all Schaevitz™ signal conditioners • High temperature (220°C) and high pressure (vented case) available - consult factory

MHR Series Model No.	Nominal Linear Range Inches (mm)	Digi-Key Part No.	Price Each 1	5	10	Schaevitz MSI Part No.
025 MHR	±0.025 (±0.64)	356-1010-ND	106.00	96.00	89.00	02560407-000
050 MHR	±0.50 (±1.27)	356-1011-ND	115.00	104.00	97.20	02560408-000
100 MHR	±0.100 (±2.54)	356-1012-ND	135.00	122.00	114.00	02560409-000
250 MHR	±0.250 (±6.35)	356-1013-ND	174.00	157.00	146.40	02560410-000
500 MHR	±0.500 (±12.70)	356-1014-ND	231.00	208.00	194.40	02560411-000
1000 MHR	±1.000 (±25.40)	356-1015-ND	272.00	245.00	228.00	02560412-000

E Series LVDT

The low cost AC operated E series is particularly suitable for moderate operating temperatures. Its rugged construction will resist the shocks and vibrations encountered in most industrial applications.

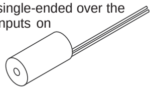


Features: • Customary LVDT performance at minimal cost • Magnetically shielded case • Compatible with all Schaevitz™ signal conditioners

E Series Model No.	Nominal Linear Range Inches (mm)	Digi-Key Part No.	Price Each 1	5	10	Schaevitz MSI Part No.
E100	±0.100 (±2.54)	356-1016-ND	42.00	38.00	35.00	02560541-000
E200	±0.200 (±5.08)	356-1017-ND	50.00	46.00	42.00	02560542-000
E300	±0.300 (±7.62)	356-1018-ND	67.00	62.00	57.00	02560543-000
E500	±0.500 (±12.70)	356-1019-ND	105.00	97.00	88.80	02560544-000
E1000	±1.00 (±25.4)	356-1020-ND	147.00	135.00	124.00	02560545-000
E2000	±2.00 (±50.8)	356-1021-ND	207.00	190.00	174.00	02560546-000

DC-SE Series LVDT

The new Schaevitz™ General Purpose DC operated DC-SE series has been designed to meet today's requirements for operation from a single-ended power supply. The output is also single-ended over the full range displacement of the LVDT making the unit compatible with unipolar inputs on the analog-to-digital converters and programmable logic controllers.

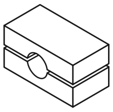


Features: • CE certified • Operates from single-ended, unregulated 8.5 - 28 VDC supply • 0 - 5 VDC or 1 - 6 VDC output voltage, depending on customer hook up • Low power consumption • 200 Hz frequency response • 1 meter shielded cable

DC-SE Series Model No.	Nominal Linear Range Inches (mm)	Digi-Key Part No.	Price Each 1	5	10	Schaevitz MSI Part No.
250DC-SE	0.250 (6.35)	356-1022-ND	300.00	267.00	252.00	02560991-000
500DC-SE	0.500 (12.7)	356-1023-ND	348.00	313.00	292.80	02560992-000
1000DC-SE	1.000 (25.4)	356-1024-ND	402.00	362.01	337.20	02560993-000
2000DC-SE	2.000 (50.8)	356-1025-ND	449.00	403.00	376.80	02560994-000
4000DC-SE	4.00 (101.6)	356-1026-ND	512.00	461.00	429.60	02560995-000

Accessories Mounting Blocks

Model No.	Digi-Key Part No.	Price Each 1	5	10	Schaevitz MSI Part No.
MB-OD-0.375	356-1027-ND	24.00	22.00	20.40	04560954-000
MB-OD-0.750	356-1028-ND	24.00	22.00	20.40	04560950-000



Core Extension Rods

Description	Digi-Key Part No.	Price Each 1	10	Schaevitz MSI Part No.
1-72unf X 6" Non-Magnetic Stainless Steel	356-1029-ND	12.00	10.00	05282945-006
4-40oz X 6" Non-Magnetic Stainless Steel	356-1030-ND	12.00	10.00	05282946-006
4-40oz X 12" Non-Magnetic Stainless Steel	356-1031-ND	24.00	20.00	05282946-012

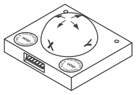
AccuStar® Electronic Clinometers

The AccuStar® Electronic Clinometer is and extremely accurate angle measurement device. This compact and rugged sensor is ideal where space is critical and environmental conditions are serious design concerns.

Features: • CE certified • Just 2" in diameter • Rugged plastic housing • Extremely accurate • Weighs only 2 oz.

Description	Linear Range	Operating Temp. Range	Digi-Key Part No.	Price Each 1	10	25	Schaevitz MSI Part No.
Single Axis Ratiometric Vertical Flange	±45°	-30° to 65°C	356-1032-ND	139.00	128.00	117.01	02110002-000
Single Axis Ratiometric Horizontal Flange	±45°	-30° to 65°C	356-1033-ND	139.00	128.00	117.01	02110102-000

AccuStar® II Clinometers

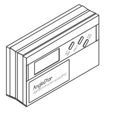


AccuStar® II combines the function of two clinometers in one package. The unique dome shaped design features a capacitance based sensor which produces output signals directly proportional to the relative tilt in two axis.

Features:
• Two clinometers in one package • Adaptable design DC powered • Ratiometric and PW digital output in one model • Trimmable DC output

Description	Linear Range	Operating Temp. Range	Digi-Key Part No.	Price Each 1	10	25	Schaevitz MSI Part No.
Dual Axis Clinometer	±20°	-20° to 75°C	356-1034-ND	100.00	95.00	90.00	02119011-000

AngleStar® Digital Protractor

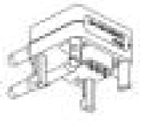


The AngleStar® Digital Protractor Model DP-45 provides instant digital display of level, angle and tilt.

Features: • Reads in degrees • Alternate reference (floating zero) • Display hold • High impact plastic carrying case

Description	Linear Range	Operating Temp. Range	Digi-Key Part No.	Price Each 1	5	20	Schaevitz MSI Part No.
Digital Protractor Model DP-45	±45°	0° to 65°C	356-1035-ND	309.00	291.00	263.00	02475-01

Ares Series Pressure Transducers



The Ares Series is a small, low cost pressure transducer, which is able to measure pressures as low as 0 to 5, 0 to 10, 0 to 15 inches of water, and 0 to 1 psig. The ranges combined with the small physical size make the device ideally suited for applications such as HVAC, medical equipment and flow monitoring. The ASIC is a mixed signal CMOS sensor interface that uses differential switched capacitor architecture, and was specifically designed to compensate for the errors associated with piezoresistive silicon sensors.

Features: • Very low pressure ranges • Small size • PCB mountable • Solder reflow capability • Barbed pressure ports

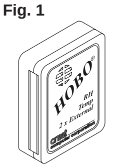
Description	Standard Pressure Range	Accuracy % FSO	Digi-Key Part No.	Price Each 1	10	25	Schaevitz MSI Part No.
PCB Mount 0.5-4.5V	5" H_2O	0.25	356-1036-ND	40.00	32.25	27.30	GA100-005WD
PCB Mount 0.5-4.5V	10" H2O	0.50	356-1037-ND	40.00	32.25	27.30	GA100-010WD
PCB Mount 0.5-4.5V	15" H_2O	0.50	356-1038-ND	40.00	32.25	27.30	GA100-015WD
PCB Mount 0.5-4.5V	1 PSI	0.75	356-1039-ND	40.00	32.25	27.30	GA100-001PD
PCB Mount 0.250-4.5V	5" H_2O	0.25	356-1040-ND	40.00	32.25	27.30	GA200-005WD
PCB Mount 0.250-4.5V	10" H_2O	0.50	356-1041-ND	40.00	32.25	27.30	GA200-010WD
PCB Mount 0.250-4.5V	15" H_2O	0.50	356-1042-ND	40.00	32.25	27.30	GA200-015WD
PCB Mount 0.250-4.5V	1 PSI	0.75	356-1043-ND	40.00	32.25	27.30	GA200-001PD

HOBO® H8 Family

Single and multi-channel loggers for recording temperature in indoor and outdoor environments.

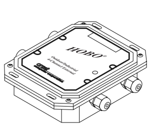
Features: • User-selectable sampling intervals: 0.5 seconds to 9 hours, recording times up to 1 year • Programmable start time/date • Memory modes stop when full, wrap-around when full • Nonvolatile EEPROM memory retains data even if battery fails • Blinking LED light confirms operation • User-replaceable battery lasts 1 year • Battery level indication at launch

Fig. 1



(341-1011-ND shown)

Fig. 2



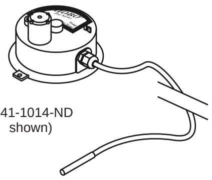
Specifications: • **Relative Humidity:** 25% to 95% (±5%) • **External Input:** Accepts sensors and input cables for temperature, AC current, 4-20mA and 0-2.5V DC • **Light Intensity:** 2 to 600 lumens/ft^2 (±2) • **Temperature Range:** -4°F to +158°F (-20°C to +70°C, ±0.7°C); accuracy at 70°F: ±1.27°F (±0.7°C) • **Resolution:** 0.7°F (0.4°C) at +70°F • **Time Accuracy:** ±1 minute per week at +68°F (+20°C)

Fig.	No. of Channels	Environment	Measurement Capacity	Digi-Key Part No.	Price Each	Onset Part No.
1	1	Indoor	7,943	341-1006-ND	59.00	H08-001-02
1	2	Indoor	7,943	341-1007-ND	65.00	H08-002-02
1	2	Indoor	7,943	341-1008-ND	85.00	H08-003-02
1	4	Indoor	32,520	341-1010-ND	95.00	H08-006-04
1	4	Indoor	7,943	341-1009-ND	95.00	H08-004-02
1	4	Indoor	7,943	341-1011-ND	95.00	H08-007-02
2	4	Indoor/Outdoor	32,520	341-1012-ND	179.00	H08-008-04

Note: A BoxCar® Pro or BoxCar 3.6+ starter kit is required to operate the H8 Family loggers.

HOBO® H8 Pro Series

Features: • Indoor/Outdoor Environment • User-selectable sampling intervals: 0.5 seconds to 9 hours, recording times up to 3 years • Programmable start time/date • Memory mode: stop when full • Non-volatile EEPROM memory retains data even if battery fails • Blinking LED light confirms operation (visible through communication jack) • User-replaceable battery lasts 3 years; battery life is substantially less if the HOBO Pro is constantly used below 0°F (-18°C) • Battery check at launch



(341-1014-ND shown)

Specifications: • **Relative Humidity:** 0% to 100% condensing • **Temperature Range:** -22°F to +122°F (-30°C to +50°C) • **Temperature Accuracy (at 70°F):** ±0.33°F (±0.2°C) in high resolution mode; ±0.7°F (±0.38°C) in standard resolution mode • **Resolution (at 70°F):** 0.4°F (0.02°C) in high resolution mode; ±0.68°F (0.38°C) in standard resolution mode • **Time Accuracy:** ±1 minute per week at +68°F (+20°C)

Description	No. of Channels	Measurement Capacity	Digi-Key Part No.	Price Each	Onset Part No.
HOBO Pro Temp	1	65,291	341-1013-ND	129.00	H08-030-08
HOBO Pro RH/Temp	2	65,291	341-1015-ND	159.00	H08-032-08
HOBO Pro Temp/External Temp	2	65,291	341-1014-ND	169.00	H08-031-08

Note: A BoxCar® Pro or BoxCar 3.6+ starter kit is required to operate the HOBO Pro Series loggers.

HOBO® H6 Family

The HOBO H6 Family of loggers record when devices change between on and off or open and closed, storing the time, date, and state for each change.

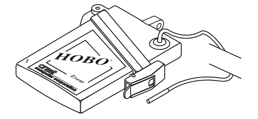
Features: • Motor on/off • Light on/off • State open/closed • External contact closure • Programmable start time/date • Memory modes: stop when full, wrap-around when full • Nonvolatile EEPROM memory retains data even if battery fails • Blinking LED light shows current state • User-replaceable battery lasts 1 year • Battery check at launch

Specifications: • **Time Resolution:** 0.5 seconds • **Measurement Capacity:** 2,000 state changes • **Operating Temperature Range:** -4°F to +158°F (-20°C to +70°C) • **Relative Humidity:** 0 to 95%, non-condensing, non-fogging • **Time Accuracy:** ±1 minute per week at +68°F (+20°C)

Description	Measurement Range	Digi-Key Part No.	Price Each	Onset Part No.
HOBO State (includes cable & magnet)	—	341-1001-ND	69.00	H06-001-02
HOBO Light On/Off Logger	10 to 300 lumens/ft^2	341-1002-ND	69.00	H06-002-02
HOBO Motor On/Off Logger (AC field sensor)	~2 Gauss at 60 Hz	341-1004-ND	69.00	H06-004-02
HOBO Motor On/Off Logger (vibration sensor)	adjustable ~0.05 G to 0.5 G at 60 Hz	341-1003-ND	69.00	H06-003-02

Note: A BoxCar® Pro or BoxCar 3.6+ starter kit is required to operate the H6 Family loggers.

HOBO® Event



The reusable HOBO Event records when momentary contact-closure events happen, storing the time and date of each event. Only one time per event is stored to minimize memory usage for applications where the event duration is not needed.

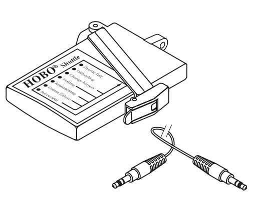
Features: • 1-Channel • Indoor/Outdoor environment • Programmable start time/date • Memory modes: stop when full or wrap-around when full • Non-volatile EEPROM memory retains data even if battery fails • Blinking LED light inside case confirms operation • User-replaceable battery lasts 1 year • Battery check at launch

Specifications: • **Event Resolution:** 0.5 seconds • **Capacity:** 8,000 events • **Time Accuracy:** ±1 minute per week at +68°F (+20°C) • **Operating Temp. (logger):** -4°F to +158°F (-20°C to +70°C)

Note: A BoxCar® Pro or BoxCar 3.6+ starter kit is required to operate the HOBO Event logger.

341-1005-ND	HOBO Event Logger (H07-002-04)	**$85.00**

HOBO® Shuttle Data Transporter



The pocket-sized HOBO Shuttle provides a convenient way to readout and relaunch HOBO data loggers and bring the data back to your host PC.

Features: • Verifies operation of HOBO H6 Family and HOBO Event data loggers • One-foot connector cable fits inside case • Data offload time from logger: 90 sec. typical from 8K logger, about 5 min. from 32K logger and about 1 min. from 64K HOBO Pro Logger • Data readout time to PC: 2 minutes typical for full shuttle • Operating humidity range when case is open: 0 to 95% relative humidity, non-condensing • Clear styrene case (weatherproof when closed) • Size: 3.5" x 4.3" x 0.8" (108mm x 89mm x 19 mm); with attached adjustable cord

Specifications: • **Time Accuracy:** ±1 minute per week at +68°F (+20°C). The shuttle's clock is synchronized to the computer clock when the Shuttle is read out or launched • **Operating Temp. Range:** -4°F to +158°F (-20°C to +70°C)

341-1016-ND	HOBO Shuttle (H09-002-08)...	**$159.00**

External Sensors/Input Cables

Wide Range Temperature Sensors:

• **Temperature Range:** -40°F to +212°F (-40°C to +100°C), in air • **Accuracy:** ±0.9°F at +70°F (±0.5°C at +20°C) • **Resolution:** 0.7°F at +70°F (0.41°C at +20°C) • **Dimensions:** 0.2" (5.08mm) diameter sensor (fits in 1/4" holes)

High Accuracy Temperature Sensors:

• **Temperature Range:** -32°F to +110°F (-0°C to +44°C), in air • **Accuracy:** ±0.7°F at +70°F (±0.4°C at +20°C) • **Resolution:** 0.3°F at +70°F (0.2°C at +20°C) • **Dimensions:** 0.3" (7.62mm) diameter sensor (fits in 3/8" holes)

Stainless Steel Temperature Sensors:

• **Temperature Range:** -40°F to +212°F (-40°C to +100°C), in air or water • **Accuracy:** ±0.9°F at +70°F (±0.5°C at +20°C) • **Resolution:** 0.7°F at +70°F (0.41°C at +20°C) • **Dimensions:** 4" food-grade stainless-steel probe with pointed tip; 0.12" (3.05) diameter

4-20mA Cable:

• 18" cable with 3.5" tinned braided wire leads • **Loop Current Range:** 0 to 20.1mA • **Accuracy:** ±0.1mA ±1% of reading • **Resolution:** 0.4% of full scale

Voltage Input Cable:

• 6' cable with 0.5" tinned braided wire leads • For voltage input specifications, refer to the HOBO H8 specifications for the model you will be using.

Fig. 1

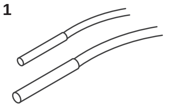


Fig. 2

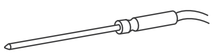


Fig. 3

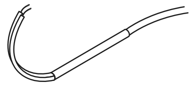


Fig. 4

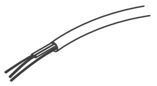


Fig.	Product	Digi-Key Part No.	Price Each	Onset Part No.
1	1' (.30 M) Wide Range Temperature Sensors *	341-1019-ND	25.00	TMC1-HA
	6' (1.83 M) Wide Range Temperature Sensors *	341-1020-ND	27.00	TMC6-HA
	20' (6.1 M) Wide Range Temperature Sensors *	341-1021-ND	32.00	TMC20--HA
	50' (15.24 M) Wide Range Temperature Sensors *	341-1022-ND	37.00	TMC50-HA
1	6' (1.83 M) High Accuracy Temperature Sensor *	341-1023-ND	40.00	TMC6-HB
2	6' (1.83 M) Stainless Steel Temperature Probe	341-1024-ND	75.00	TMC6-HC
3	4-20mA Cable	341-1031-ND	15.00	CABLE-4-20mA
4	Voltage Input Cable	341-1030-ND	8.00	CABLE-2.5-STEREO

* Not recommended for prolonged use in water. Do not use for more than 3 months total in water less than +90°F (+30°C), or more than 1 month total in water over +90°F (+30°C).

(Continued)

Windows Software Starter Kits

BoxCar 3.6 provides basic launch, data readout, plotting and data export capabilities. BoxCar Pro 4.0 is a powerful enhanced version of BoxCar 3.6 that adds new features for graphing, data analysis, data export and management of multiple loggers. BoxCar Pro 4.0 and BoxCar 3.6 support all currently available HOBO and StowAway loggers. Each starter kit includes software, computer interface cable and software manual.

BoxCar® 3.6 for Windows

Export Data Files to Spreadsheets: • Microsoft Excel, Lotus 1-2-3 or any ASCII-compatible program

System Requirements for BoxCar 3.6: 386 or better processor with at least 4M of RAM running Windows 3.1x or Windows 95/98/NT, with at least one available serial port.

BoxCar® Pro 4.0 for Windows

Export Data to other Programs: • Control bar tool for Microsoft Excel export (.TXT format) • Lotus 1-2-3 and custom export • International data format options • Batch export utility

System Requirements for BoxCar Pro 4.0: Minimum system requirement is 486/66Mhz with at least 16M of RAM running Windows 95/98/NT4 or later with 16-bit color. A Pentium 90 or higher with 24M of RAM is recommended. The system must have at least one available serial COM port and a CD-ROM drive.

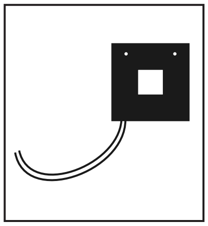
Description	Digi-Key Part No.	Price Each	Onset Part No.
BoxCar 3.6 Starter Kit	341-1018-ND	14.00	BC3.7-DL
BoxCar Pro 4.0 Starter Kit	341-1017-ND	95.00	BCP4.0-ON

Split-core AC Current Sensors

The CTV's are UL listed but not CE approved. They have a pivoting leg for easier installations, and the A, B, and C units have spacer flaps that center the wire being monitored. The CTV's do not require any adapter to work with all HOBO H8 external channel models. Simply plug them in and choose the appropriate model (the Software will not show the "V" but the letters of the models correspond).

Specifications:

• **Length:** 6' (1.83 M) Cable • **Input Current:** AC current, sine wave, single phase 50Hz or 60Hz, load power factor 0.5 to 1.0 lead or lag • **Voltage Rating:** 600 Vac tested with full wave 10 KV impulse for 60 seconds • **Ratio and Linear Accuracy:** ±3.0 % of full scale (includes logger accuracy) • **Response Time:** Approximately 250 milliseconds from 10% to 90% of amplitude



Range (AC Amps)	Window Inch (mm)	Outer Length Inch (mm)	Outer Width Inch (mm)	Digi-Key Part No.	Price Each	Onset Part No.
0-20 A ac	0.5 (12.70)	2.8 (71.12)	2.8 (71.12)	341-1049-ND	84.00	CTV-A
0-50 A ac	0.75 (19.05)	2.8 (71.12)	2.8 (71.12)	341-1050-ND	84.00	CTV-B
0-100 A ac	1.0 (25.40)	2.8 (71.12)	3.3 (83.82)	341-1051-ND	84.00	CTV-C
0-200 A ac	1.5 (38.10)	4.0 (101.60)	3.8 (96.52)	341-1053-ND	100.00	CTV-D
0-600 A ac	2.0 (50.80)	4.5 (114.30)	4.5 (114.30)	341-1052-ND	100.00	CTV-E

onset computer corporation

Thermocouple Sensors

HOBO Wide-range Temperature (Thermocouples)

Each logger includes cold-junction compensation, and two software-selectable measurement ranges for optimal resolution and accuracy. The loggers also have an internal temperature sensor which can be used to record ambient temperatures. Thermocouples are popular for their wide temperature range and specialized probes.

Thermocouples: Features and Specifications: • Capacity: 32,520 measurements total • Mounting kit included (hook/loop. Magnet and tape) • Programmable start time/date • Memory modes: stop when full, wrap-around when full • Nonvolatile EEPROM memory retains data even if battery fails • User-replaceable battery lasts 1 year • User-selectable sampling intervals: 0.5 seconds to 9 hours, recording times up to 1 year • Operating range: 0°C to +50°C (+32°F to +122°F), 0 to 95% relative humidity, non-condensing, non-fogging • Time accuracy: ±1 minute per week at +20°C (+68°F)

Subminiature Connectors: Features and Specifications: • Accept stranded or solid wire up to 20 AWG • Internal silicone grommet for strain relief

Fig. 1

Type J: Iron-Constantan
+32°F to +482°F
+32°F to +1382°F

Type K: Chromel-Alumel
+32°F to +932°F
+32°F to +2282°F

Type T: Copper-Constantan
-328°F to +122°F
-94°F to +356°F

Fig. 2

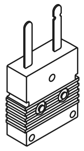


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Onset Part No.
	Thermocouple Logger					
1	HOBO, Type J	341-1032-ND	95.00	89.00	82.01	H12-001
	HOBO, Type K	341-1033-ND	95.00	89.00	82.01	H12-002
	HOBO, Type T	341-1034-ND	95.00	89.00	82.01	H12-003
	Subminiature Connector					
2	Type J, Black	341-1035-ND	4.00	3.94	—	SMC-J
	Type K, Yellow	341-1036-ND	4.00	3.94	—	SMC-K
	Type T, Blue	341-1037-ND	4.00	3.94	—	SMC-T

Note: A BoxCar® Pro 4.0 starter kit is required to operate the HOBO Pro Series loggers.

Thermocouple Wire

Specifications: 100' (30.48 meters) coils of insulated 24-AWG thermocouple wire

Type J: **Wire:** • Range: +32°F to +482°F (0°C to +250°C) • Initial Accuracy: ±4°F (±2.2°C)
Teflon Insulation: Rated up to +400°F (+200°C) continuous, and +482°F (+250°C) for 24 hours.

Type K: **Wire:** • Range: +32°F to +545°F (0°C to +250°C). Initial Accuracy: ±4°F (±2.2°C)
• Range: +545°F to +900°F (+285°C to +482°C). Initial Accuracy: ±0.75%*
Glass Braid Insulation: Rated up to +900°F (+482°C) continuous, and +1000°F (+537°C) for single exposure.

Type T: **Wire:** • Range: -330°F to -85°F (-200°C to -65°C). Initial Accuracy: ±1.5%*
• Range: -85°F to +270°F (-65°C to +130°C). Initial Accuracy: ±1.8°F* (±1°C)
• Range: +270°F to +356°F (+130°C to +180°C). Initial Accuracy: ±0.75%*
Teflon Insulation: Rated up to +400°F (+200°C) continuous, and +482°F (+250°C) for 24 hours.

* Percentage is of degrees above or below ice point (+32°F or 0°C)

Description	Digi-Key Part No.	Price Each 1	10	Onset Part No.
Type J, Teflon Insulation, 100'	341-1038-ND	55.00	54.12	TCW100-J
Type K, Glass Braid Insulation, 100'	341-1039-ND	55.00	54.12	TCW100-K
Type T, Teflon Insulation, 100'	341-1040-ND	55.00	54.12	TCW100-T

Water Temperature

Optic StowAway:

Features and Specifications: • Waterproof to 100 feet • 10-year factory-replaceable battery • Capacity: 7,943 or 32,520 measurements • Two measurement ranges†: +24°F to +99°F (-4°C to +37°C), -32°F to +167°F (-35°C to +75°C) • User-selectable sampling interval: 0.5 seconds to 9 hours, recording times up to several years • Uses optic communications through Optic Base Station for launch and readout • Programmable start time/date • Time accuracy: ±1 minute per week at +68°F (+20°C)

StowAway TidbiT:

Features and Specifications: • Waterproof to 1000 feet • 5-year, non-replaceable battery • Capacity: 32,520 measurements • Completely sealed in epoxy; very durable • Small size: 1.2" wide x 1.6" tall x 0.65" thick (30 x 41 x 17mm) and 0.8 oz. • Two measurement ranges†: +24°F to 99°F (-4°C to +37°C) and -4°F to +122°F (-20°C to +50°C) • User-selectable sampling interval: 0.5 seconds to 9 hours, recording times up to several years • Uses optic communications through Optic Base Station for launch and readout • Time accuracy: ±1 minute per week at +68°F (+20°C)

† Specified range is narrower than nominal range due to precision calibration process.

Fig. 1

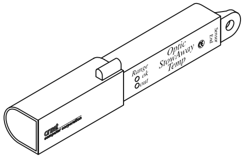


Fig. 2

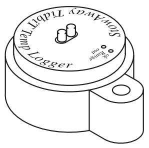
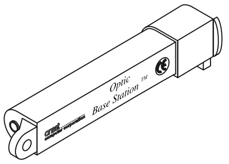


Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Onset Part No.
	Optic StowAway					
1	8K Capacity, Temp. (-4°C to +37°C)	341-1041-ND	129.00	119.00	110.01	WTA08-05+37
	8K Capacity, Temp. (-39°C to +75°C)	341-1042-ND	129.00	119.00	110.01	WTA08-39+75
	32K Capacity, Temp. (-5°C to +37°C)	341-1043-ND	189.00	174.00	161.00	WTA32-05+37
	32K Capacity, Temp. (-39°C to +75°C)	341-1044-ND	189.00	174.00	161.00	WTA32-39+75
	StowAway TidbiT					
2	32K, (-5°C to +37°C)	341-1045-ND	119.00	109.39	100.97	TBI32-05+37
	32K, (-20°C to +50°C)	341-1046-ND	119.00	109.39	100.97	TBI32-20+50

Optic Shuttle Data Transporter

The Optic Base Station is used to communicate between the host computer and Optic data logger, Optic Shuttle, Optic StowAway or StowAway TidbiT. The Optic Base Station connects to the computer interface cable included with the windows software starter kits (sold separately).

Features and Specifications: • Used for readout of the Optic StowAway and the StowAway TidbiT loggers • Includes Optic Coupler and TidbiT Coupler for connecting the base station loggers • 128K capacity enough for 16 full 8K loggers or 4 full 32K loggers • Waterproof to 30 ft (15 psi) • 10-year, factory-replaceable battery • Optic Coupler and TidbiT Coupler included



Description	Digi-Key Part No.	Price Each 1	10	100	Onset Part No.
Optic Base Station	341-1047-ND	80.00	73.15	68.58	DSA
Optic Shuttle	341-1048-ND	199.00	183.01	169.00	DTA128B

HUMIREL Sensors

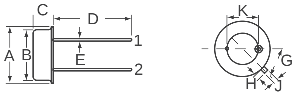
The relative humidity sensors by Humirel are based on capacitive cell technology using a patented solid polymer structure. They are fully interchangable with no calibration required in standard conditions. Suitable for linear voltage or frequency output circuitry. An NTC thermistor is used for temperature measurement.

The RH modules are based on the HS1101 capacitive humidity sensor and are voltage output devices. The RH/Temperature modules include an NTC thermistor for temperature measurement and are voltage or frequency output.

Features:

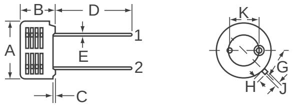
- High reliability and long term stability
- Instantaneous desaturation after long periods in saturation conditions
- Fast response times
- Patented solid polymer structure

Fig. 1



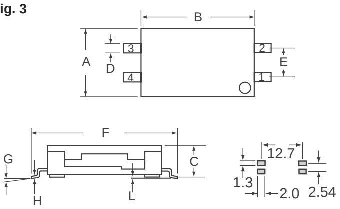
Dimension	Min. (mm)	Max. (mm)
A	9.00	9.30
B	8.00	8.50
C	3.50	3.90
D	12.00	14.00
E	0.40	0.50
G	45° BCS	
H	0.70	1.10
J	0.70	0.90
K	4.83	5.33

Fig. 2



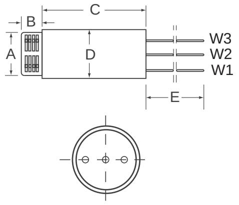
Dimension	Min. (mm)	Max. (mm)
A	9.70	10.20
B	5.70	6.20
C	0.40	0.60
D	12.00	14.00
E	0.40	0.50
G	45° BCS	
H	0.70	1.10
J	0.70	0.90
K	4.83	5.33

Fig. 3



Dimension	mm (typical)
A	6
B	10
C	2.7
D	0.8
E	2.54
F	12.8
G	0-7°
H	0.2
L	0.1

Fig. 4

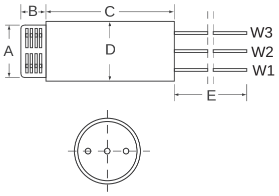


Dimension	Min. (mm)	Max. (mm)
A	9.70	10.20
B	5.00	5.50
C	52	54
D	11.2	11.6
E*	200	250

*Specific length available on request

Wire	Color	Function
W1	White	Ground
W2	Blue	Supply Voltage
W3	Yellow	Output Voltage

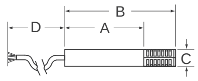
Fig. 5



Dimension	Min. (mm)	Max. (mm)
A	9.70	10.20
B	5.00	5.50
C	52.00	54.00
D	10.70	11.10
E	100.00	250.00

Wire	Color	Function
W1	White	Ground
W2	Blue	Voltage
W3	Yellow	Output

Fig. 6

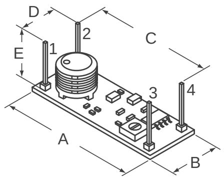


Dimension	Min. (mm)	Max. (mm)
A	53	55
B	74.3	76.3
C	11.2	11.6
D*	200	250

*Specific length available on request

Wire	Color	Function
W1	Brown	Ground
W2	White	Supply Voltage
W3	Yellow	Humidity Voltage
W4	Green	NTC Resistance
W5	Black	Shield

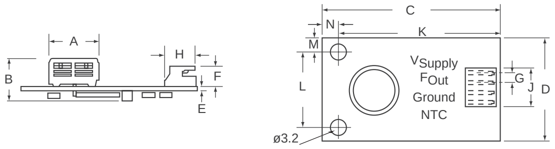
Fig. 7



Dimension	Min. (mm)	Max. (mm)
A	35	36
B	13	13.5
C	30.3 Typical	
D	5.08 Typical	
E	9.4 Typical	

Pin Out Assignment	
1	NTC - Temperature
2	Ground
3	Vcc- Voltage Supply
4	Vout - Humidity

Fig. 8



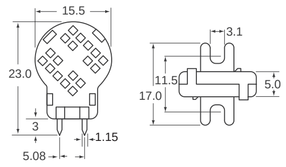
Dim. (mm)	A	B	C	D	E	F	G	H	J	K	L	M	N	ø
Min.	9.7	8.5	33.5	21.5	1.55	3.5	1.45	4.5	7.3	29.5	13.8	3.5	3.5	3.0
Max.	10.8	9.5	34.5	22.5	1.65	3.9	1.55	4.7	7.7	30.5	14.2	4.5	4.5	3.4

Fig.	Description	Supply Voltage (typ.)	Nom. Cap. @ 55% RH	Response Time	Nominal Out	RH Measuring Range	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100
					Sensors						
1	RH Sensor Top Opening	—	180pF	5 Sec.	—	1 to 99% RH	-40° to 100°C	HS1100-ND	14.00	11.00	9.50
2	RH Sensor Side Opening			5 Sec.		1 to 99% RH	-40° to 100°C	HS1101-ND	12.50	10.00	9.00
3	Temp./RH Sensor SMD			10 Sec.		1 to 99% RH	-40° to 100°C	HTS2010SMD-ND	16.80	13.20	11.40
					Modules						
4	RH Module V Out	5V	—	—	2.48V @ 55% RH	1 to 99% RH	-30° to 60°C	HM1500-ND	30.50	23.24	21.00
5	RH Module V Out				1.24V @ 10% RH	1 to 99% RH	-30° to 60°C	HM1520-ND	49.00	46.00	43.50
6	Temp./RH Module V Out				2.48V @ 55% RH	1 to 99% RH	-30° to 70°C	HTM2500-ND	49.00	46.00	43.50
7	Temp./RH Module V Out				2.48V @ 55% RH	1 to 99% RH	-30° to 85°C	HTM1505-ND	20.00	18.00	16.00
8	Temp./RH Module Freq. Out				8750 Hz @ 55% RH	10 to 95% RH	-30° to 80°C	HTF3223-ND	18.00	16.00	14.00
—	Demo Kit includes: 1 x HM1500, 1 x HM1510*****, and 5 x HS1101							HDEMOKIT-ND	125.00	—	—

***** HM1510 - HM1500 with socket at tip to accept HS1101 to test interchangeability

BC COMPONENTS Capacitive Humidity Sensor

The capacitive atmospheric humidity sensor consists of a non-conductive foil, which is covered on both sides with a layer of gold. The dielectric constant of the foil changes as a function of the relative humidity of the ambient atmosphere and, accordingly, the capacitance value of the sensor is a measure for relative humidity.

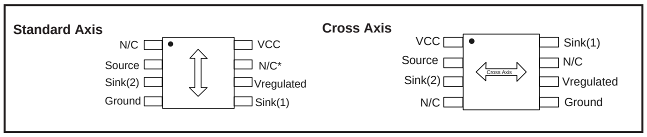


Humidity Range (RH)	Cap.* (pF)	Sensitivity Between 12-75% RH (pF/%RH)	Frequency (kHz)	Max. AC/DC Voltage (V)	Storage Humidity Range (RH)	Ambient Temp. Range (°C) (Operating)	(Storage)	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
10-90%	122 ±15%	0.4 ±0.05	1-1000	15	0-100%	0 to +85°	-25° to +85°	BC1333-ND	11.94	10.23	8.53	2322 691 90001

* Capacitance at +25 °C; 43% RH; 100 kHz

NVE CORPORATION

GMR Digital Magnetic Sensors



The GMR Switch will accurately and reliably sense magnetic fields, with less error than any other magnetic sensor on the market today.

In addition, there is minimal shift in the magnetic field operate point of the GMR Switch over both voltage and temperature extremes. This gives the manufacturer the ability to make a high precision, high tolerance magnetic sensing assembly.

Features:

Absolute Maximum Ratings:

Parameters:

- Supply Voltage: 33V
- Reverse Battery Voltage: -33V
- Continuous Output Current: 24 mA
- Operating Temperature Range: -40°C to -125°C
- Magnetic Field: Unlimited Oersteds

Electrical Specifications:

Parameter:

- Supply Voltage: 4.5-30V
- Supply Current, Single Output GMR Switch: 2.5-4.5mA
- Current Sinking Output: 0-20mA
- Current Sourcing Output: 0-20mA
- Output Leakage Current: 10mA
- Sinking Output Saturation Voltage: 0.4V
- Sourcing Output Saturation Voltage: -2.5V
- Regulated Output Voltage: 3.5-6.0V

Sensitivity	Direction of Sensitivity	Output Type	Package	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
20 Gauss	Standard	Sink	8-TSSOP	391-1005-ND	4.35	3.27	2.90	1.89	AD004-00
40 Gauss	Standard	Sink	8-TSSOP	391-1006-ND	4.35	3.27	2.90	1.89	AD005-00
80 Gauss	Standard	Sink	8-TSSOP	391-1007-ND	4.35	3.27	2.90	1.89	AD006-00
28 Gauss	Standard	Sink	8-TSSOP	391-1008-ND	4.35	3.27	2.90	1.89	AD020-00
20 Gauss	Cross Axis	Sink	8-TSSOP	391-1009-ND	4.35	3.27	2.90	1.89	AD021-00
40 Gauss	Cross Axis	Sink	8-TSSOP	391-1010-ND	4.35	3.27	2.90	1.89	AD022-00
80 Gauss	Cross Axis	Sink	8-TSSOP	391-1011-ND	4.35	3.27	2.90	1.89	AD023-00
28 Gauss	Cross Axis	Sink	8-TSSOP	391-1012-ND	4.35	3.27	2.90	1.89	AD024-00
20 Gauss	Cross Axis	Source & Sink	8-TSSOP	391-1013-ND	4.77	3.58	3.18	2.07	AD221-00
28 Gauss	Cross Axis	2 Sink	8-TSSOP	391-1014-ND	4.77	3.58	3.18	2.07	AD324-00
20 Gauss	Cross Axis	Source & Sink + Ext. V. Reg.	8-TSSOP	391-1015-ND	5.13	3.85	3.42	2.23	AD621-00
28 Gauss	Cross Axis	2 Sink + Ext. V. Reg.	8-TSSOP	391-1016-ND	5.13	3.85	3.42	2.23	AD724-00
10 Gauss	Cross Axis	Sink	8-TSSOP	391-1018-ND	2.67	2.01	1.78	1.16	ADH025-00

GMR Current Sensor Evaluation Assembly

The NVE GMR Current Sensor Evaluation Assembly (PN AG003-01) was created to facilitate laboratory experimentation and development using GMR current sensors.

The kit consists of (4) four NVE current sensors (PN AC004-01) assembled to a printed circuit board (PN AG002-01). The PCB has (4) four trace geometries to simulate various PCB current ranges.

Description	Digi-Key Part No.	Price Each	NVE Part No.
Current Sensor Evaluation Assembly	391-1004-ND	43.00	AG003-01

GMR Analog Magnetic Field Sensors

NVE's Giant Magnetoresistive Field Sensors offer unique and unparallel magnetic sensing capabilities.

The high sensitivity and ability to sense static magnetic fields provides superior performance which set them apart from other sensors on the market today.

NVE's sensors provide high sensitivity, temperature stability, low power consumption, and small size.

Features:

- Input Voltage Range: Max: ±25V
- Operating Frequency: Minimum: DC, Maximum: ±25MHz
- Temperature Range: Minimum: -50°C, Maximum: 125°C
- Maximum Output: Nominal: 45mV/V
- Magnetic Characteristics: (5k ±20% bridge)

Pkg.	Saturation Field (Oe)	Specified Linear Range Oe Min.	Max.	Sensitivity (mV/V/Oe) Min.	Max.	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
8-SOIC	15	0	10.5	3	4.2	391-1000-ND	14.58	10.94	9.72	6.32	AA002-02
8-SOIC	50	0	35	0.9	1.3	391-1001-ND	8.10	6.08	5.40	3.51	AA004-02
8-SOIC	100	0	70	0.45	0.65	391-1002-ND	8.10	6.08	5.40	3.51	AA005-02

GMR Evaluation Kit

The NVE GMR Engineering Evaluation Kit (PN AG001-01) was created as an aid to the technical user of GMR sensors to facilitate laboratory experimentation and development.

The kit consists of an assortment of NVE sensors, printed circuit boards and permanent magnets sufficient to demonstrate sensor functionality in the laboratory.

Description	Digi-Key Part No.	Price Each	NVE Part No.
Engineering Evaluation Kit	391-1003-ND	60.00	AG001-01

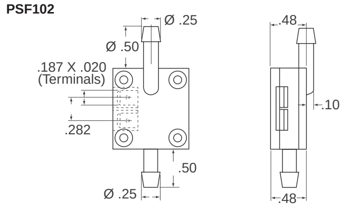
WORLD MAGNETICS

Ultra Sensitive Pressure Switches

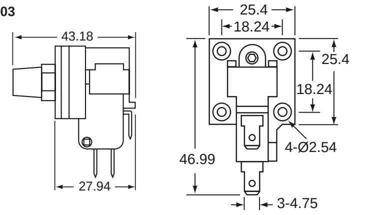
PSF102 Series: Field adjustable pressure set point from 0.004 to 3.606 PSI. Switch type SPST normally open. Electrical connections are terminals 0.187” x 0.020” tab-type recessed for use with quick disconnects (ref. AMP# 2-520182-2 or equivalent). Current rating: 40mA @ 30V AC/DC.

PSF103 Series: Field adjustable pressure set point from 0.1 to 60 PSI. Switch type SPDT normally open or normally closed. Electrical connections are terminals 0.187” x 0.020” tab-type for use with quick disconnects (ref. AMP# 2-520182-2 or equivalent). Current rating: 25A 125/250 VAC. Applications: Hysteresis (deadband) for compressor or refill motor control.

PSF102



PSF103



In. H_2O	mbar	PSI	Proof Pressure	Operating Current/ Voltage	Digi-Key Part No.	Price Each 1	10	100	World Magnetics Part No.
PSF102 Series									
0.1–0.5	0.25–1.25	.004–.018	2 PSI	40mA 30V AC/DC	384-1015-ND	13.79	13.10	9.79	7651-710
0.5–2	1.25–4.98	.018–.072	4 PSI	40mA 30V AC/DC	384-1016-ND	13.79	13.10	9.79	7651-711
2–15	4.98–37.37	.072–.541	8 PSI	40mA 30V AC/DC	384-1017-ND	13.79	13.10	9.79	7651-712
15–100	37.37–249.10	.541–3.606	15 PSI	40mA 30V AC/DC	384-1018-ND	13.79	13.10	9.79	7651-713
PSF103 Series									
2–10	5–25	0.1–0.4	30 PSI	3A 125/250VAC	384-1010-ND	13.19	12.60	9.19	9011-902
10–28	25–69	0.4–1.0	30 PSI	10A 125/250VAC	384-1011-ND	13.19	12.60	9.19	9011-903
28–111	69–276	1.0–4.0	30 PSI	15A 125/250VAC	384-1012-ND	13.19	12.60	9.19	9011-904
111–416	276–1034	4.0–15.0	100 PSI	15A 125/250VAC	384-1013-ND	13.19	12.60	9.19	9061-905
416–1664	1034–4137	15.0–60.0	100 PSI	15A 125/250VAC	384-1014-ND	13.19	12.60	9.19	9061-906

Ultra Sensitive Pressure Switches

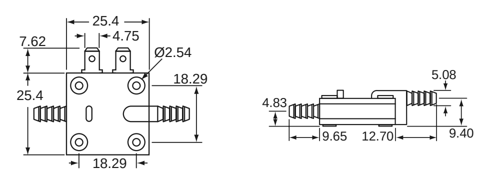
PSFA100A Series

Pressure switches utilize a patented double diaphragm/contact configuration to protect against false actuation due to shock and vibration. Switch type is SPST normally open, double-make/double break.

Current Rating is 40mA resistive for life in excess of 20 Million cycles.

Operating Voltage AC/DC-30V or less with resistive load; 120 VAC neon lamp load.

Electrical connections are terminals at .187" x .020" tab-type for use with quick disconnects (ref. AMP 2-520182-2 or equivalent).



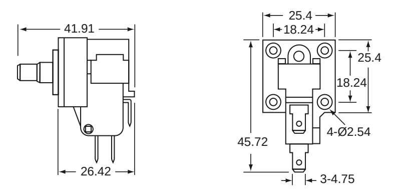
PSI	Digi-Key Part No.	Price Each 1	10	100	World Magnetics Part No.
.018	384-1000-ND	18.56	17.63	13.18	PSF100A-0.5
.054	384-1001-ND	18.56	17.63	13.18	PSF100A-1.5
.108	384-1002-ND	18.56	17.63	13.18	PSF100A-3.0
.217	384-1003-ND	17.37	16.50	12.33	PSF100A-6.0
.361	384-1004-ND	17.37	16.50	12.33	PSF100A-10.0
.541	384-1005-ND	17.37	16.50	12.33	PSF100A-15.0
1.804	384-1006-ND	17.37	16.50	12.33	PSF100A-50.0

Ultra Sensitive Vacuum Switches

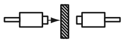
PSF109 Series

Vacuum switch with Hysteresis (deadband) for motor control. Field adjustable vacuum set point, from 3" H2O to 12 PSI.
Switch type is SPDT normally open, normally closed.
Electrical connections are terminals at .187" x .020 tab-type for use with AMP 2-520182-2 or equivalent.

Contact Rating	PSI	Digi-Key Part No.	Price Each 1	10	100	World Magnetics Part No.
3A, 125/250 VAC	0.1–0.3	384-1007-ND	16.24	15.43	11.53	PSF109S-3-8
10A, 125/250 VAC	0.3–2.9	384-1008-ND	16.24	15.43	11.53	PSF109S-9-80
15A, 125/250 VAC	2.9–11.9	384-1009-ND	16.24	15.43	11.53	PSF109S-81-330



OMRON® Photoelectric Sensors


Through Beam

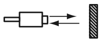

Reflective/ Diffuse

Fig. 1

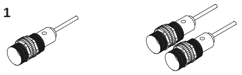

Reflective/ Diffuse
Through Beam

Fig. 2

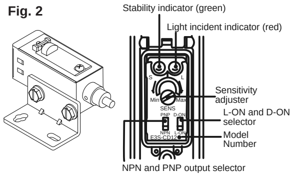
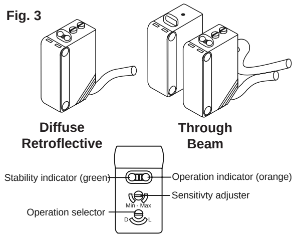


Fig. 3


Diffuse Retroflective
Through Beam

Photoelectric sensors consist of a light source and detector for object detection.

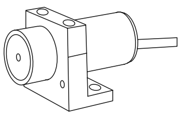
Through-beam sensors use a separate transmitter and receiver, which an object must pass between to block the light.

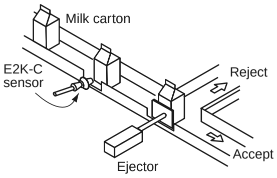
Retroflective sensors is a combined transmitter/receiver in one body and is reflected. A reflector typically is used to return the beam from the x-mitter back to the receiver. Once an object is moved between the reflector and emitter/detector, the receiver output turns on.

Diffuse reflective is a combined transmitter/receiver in one body. Objects are detected by moving an object closer to the sensor directly from the front, rather than from the side. Once an object has come within the sensing distance, the amount of reflected light is sufficient to trigger the receiver output.

Fig.	Description	Sensing Distance	Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	M18, Diffused Photoelectric Sensor, 10-30VDC Nickel Plated Brass	3.94” (10cm)	NPN	Z1087-ND	60.78	56.28	52.53	E3F2-DS10C4-N
	M18, Diffused Photoelectric Sensor, 24-240VAC, Plastic Housing	3.94” (10cm)	NPN	Z1088-ND	70.31	65.10	60.76	E3F2-DS10Z1-N
	M18, Retroflective Photoelectric Sensor, 10-30VDC, Plastic Housing	6.56’ (2m)	NPN	Z1089-ND	62.60	57.96	54.10	E3F2-R2C4
	M18, Retroflective Photoelectric Sensor, 10-30VDC, Plastic Housing	6.56’ (2m)	Light - On	Z1090-ND	72.12	66.78	62.33	E3F2-R2Z1
	M18, Through Beam Photoelectric Sensor, 10-30VDC, Plastic Housing	9.84’ (3m)	Light - On	Z1091-ND	105.24	97.44	90.95	E3F2-3Z1
	M18, Through Beam Photoelectric Sensor, 10-30VDC, Plastic Housing	22.97’ (7m)	NPN	Z1092-ND	80.29	74.34	69.39	E3F2-7C4
	M18, Through Beam Photoelectric Sensor, 10-30VDC, Nickel Plated Brass	22.97’ (7m)	NPN	Z1093-ND	89.36	82.74	77.23	E3F2-7C4-C
	M18, Diffused Photoelectric Sensor, 10-30VDC, Nickel Plated Brass	3.94” (10cm)	PNP	Z1094-ND	72.12	66.78	62.33	E3F2-DS10C4-C
	M18, Retroflective Photoelectric Sensor, 10-30VDC, Nickel Plated Brass	6.56’ (2m)	Light - On	Z1095-ND	74.84	69.30	64.68	E3F2-R2RC4-C
2	Diffused Photoelectric Sensor, 10-30VDC, Metal Body Horz.	27.6” (70cm)	NPN/PNP	Z1096-ND	148.78	137.76	128.58	E3S-CD11
	Diffused Photoelectric Sensor, 10-30VDC, Metal Body Horz.	6.56’ (2m)	NPN/PNP	Z1097-ND	159.67	147.84	137.99	E3S-CD12
	Diffused Photoelectric Sensor, 10-30VDC, Metal Body Vertical	27.6” (70cm)	NPN/PNP	Z1098-ND	148.78	137.76	128.58	E3S-CD61
	Diffused Photoelectric Sensor, 10-30VDC, Metal Body Vertical	6.56’ (2m)	NPN/PNP	Z1099-ND	159.67	147.84	137.99	E3S-CD62
	Retroflective Photoelectric Sensor, 10-30VDC, Metal Body, Horz.	9.84’ (3m)	NPN/PNP	Z1100-ND	148.78	137.76	128.58	E3S-CR11
	Retroflective Photoelectric Sensor, 10-30VDC, Metal Body, Vertical	9.84’ (3m)	NPN/PNP	Z1101-ND	148.78	137.76	128.58	E3S-CR61
	Through Beam Photoelectric Sensor, 10-30VDC, Metal Body, Horz.	98.43’ (30m)	NPN/PNP	Z1102-ND	181.44	168.00	156.80	E3S-CT11
	Through Beam Photoelectric Sensor, 10-30VDC, Metal Body, Vertical	98.43’ (30m)	NPN/PNP	Z1103-ND	181.44	168.00	156.80	E3S-CT61
3	Compact Long Distance, Photoelectric Sensor, IR Through Beam	49.21’ (15m)	NPN	Z1106-ND	97.98	90.72	84.68	E3Z-T61
	Compact Long Distance, Photoelectric Sensor, IR Retroflective	13.12’ (4m)		Z1107-ND	78.02	72.24	67.43	E3Z-R61
	Compact Long Distance, Photoelectric Sensor, IR Diffused	3.94” (100mm)	NPN	Z1108-ND	68.49	63.42	59.20	E3Z-D61
	Compact Long Distance, Photoelectric Sensor, IR Diffused	3.28’ (1m)	NPN	Z1109-ND	73.03	67.62	63.12	E3Z-D62

Capacitive Proximity Sensors

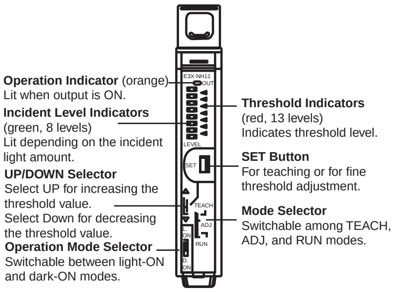




Capacitive sensors operate similar to Inductive sensors except that a plate is used instead of a coil in the sensors head. This plate develops a capacitive field between the sensor and ground. When an object comes within sensing distance of the sensor, the capacitive field changes which gets detected by the sensor and turns on the output. Perfect for detecting both metallic and non-metallic objects such as glass, wood, water, oils and plastics. Also works well for detecting liquids and solids in containers.

Sensing Distance	Description	Output Type	Digi-Key Part No.	Price Each	Omron Part No.
3-25mm	Amplified Sensor, Adjustable, NO, 10-40VDC	NPN	Z1071-ND	110.68	E2K-C25ME1
3-25mm	Amplified Sensor, Adjustable, NC, 10-40VDC	NPN	Z1072-ND	110.68	E2K-C25ME2
3-25mm	Amplified Sensor, Adjustable, NC, 90-250VAC	SCR	Z1073-ND	110.68	E2K-C25MY1
3-25mm	Amplified Sensor, Adjustable, NC, 90-250VAC	SCR	Z1074-ND	110.68	E2K-C25MY2

Optical Fiber Optic Amplifiers



Operation Indicator (orange)
Lit when output is ON.

Incident Level Indicators
(green, 8 levels)
Lit depending on the incident light amount.

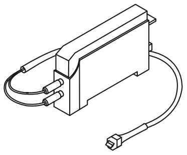
UP/DOWN Selector
Select UP for increasing the threshold value.
Select Down for decreasing the threshold value.

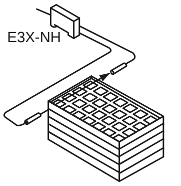
Operation Mode Selector
Switchable between light-ON and dark-ON modes.

Threshold Indicators
(red, 13 levels)
Indicates threshold level.

SET Button
For teaching or for fine threshold adjustment.

Mode Selector
Switchable among TEACH, ADJ, and RUN modes.





Omron's E3X-NH series of High performance Fiber Optic Amplifiers contain true 16 Bit processor which allows a very fine tuning sensitivity feature. Three separate teach modes for hassle free setup for different applications. Ideal for detecting very small objects or fine wires.

The E3X series feature high performance, fast switching response times. Set-mode blinking output aids in alignment. Sensing distances vary with the type of fiber used.

Description	Output Type	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
High Precision General Purpose Fiber Optic Amplifier, 12-24VDC	NPN	None	Z1110-ND	164.20	152.04	141.91	E3X-NH11
High Precision General Purpose Fiber Optic Amplifier, 12-24VDC	PNP	None	Z1111-ND	164.20	152.04	141.91	E3X-NH41
High Precision GP Fiber Optic Amplifier w/timer 12-24VDC	NPN	W/Delay Off	Z1112-ND	164.20	152.04	141.91	E3X-NH21
High Precision GP Fiber Optic Amplifier w/timer 12-24VDC	PNP	W/Delay Off	Z1113-ND	164.20	152.04	141.91	E3X-NH51
High Performance GP Fiber Optic Amplifier 10-30VDC	NPN	None	Z1114-ND	118.75	109.96	102.63	E3X-A11
High Performance GP Fiber Optic Amplifier 10-30VDC	PNP	None	Z1115-ND	118.75	109.96	102.63	E3X-A41
High Performance GP Fiber Optic Amplifier w/timer 10-30VDC	NPN	W/Delay Off	Z1116-ND	131.73	121.97	113.84	E3X-A21
High Performance GP Fiber Optic Amplifier w/timer 10-30VDC	PNP	W/Delay Off	Z1117-ND	131.73	121.97	113.84	E3X-A51

Fiber Cables for E3X Amplifiers

Premade fiber optic cables that enable very confined mounting spaces and very fast target detection.
Use **Through-beam** for long distance detection where your transmit and receive cable are separated.
Use **Concentric Beam** to detect depth or very targets where eliminating background objects is required. Periscope sensing heads (Side Beam) save space in right angle detecting. Most fiber cables offer IP67 protection and temperature ratings of -40°C to +70°C.

Fig. 1

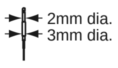


Fig. 2

Fig. 3

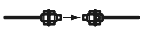


Fig. 4

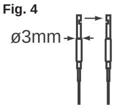


Fig.	Description	Distance Max.	Terminal Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Diffuse Side Beam Fiber Optic Cable, 2mm dia.	.6" (1.5cm)	2m Cable	Z1118-ND	97.98	90.72	84.68	E32-D24
	Diffuse Top Beam Fiber Optic Cable, Concentric Beam, 2mm dia.	.79" (2cm)	2m Cable	Z1119-ND	67.13	62.16	58.02	E32-D32
2	Diffuse Top Beam Fiber Optic Cable, Low Cost, M6 THD	.79" (2cm)	2m Cable	Z1120-ND	46.27	42.84	39.99	E32-DC200
	Diffuse Top Beam Fiber Optic Cable, Mini, M3 THD	.71" (1.8cm)	2m Cable	Z1121-ND	56.25	52.08	48.61	E32-DC200E
	Diffuse Top Beam Fiber Optic Cable, Concentric Beam, M6 THD	3" (7.5cm)	2m Cable	Z1122-ND	51.26	47.46	44.30	E32-CC200
	Cable Fiber Optic, Top Beam, High Temp, M6 THD	1.8" (4.5cm)	2m Cable	Z1187-ND	204.12	189.00	176.40	E32-D61
3	Diffuse Top Beam Fiber Optic Cable, Through Beam, M3 THD	4.72" (12cm)	2m Cable	Z1123-ND	46.27	42.84	39.99	E32-TC200A
	Through Beam Fiber Optic Cable, High Temp, M4 THD	5.9" (15cm)	2m Cable	Z1125-ND	252.31	236.55	220.78	E32-T61
	Cable Fiber Optic, Through Beam, Low Cost, M4 THD	7.88" (20cm)	2m Cable	Z1188-ND	46.27	42.84	39.99	E32-TC200
4	Through Beam Fiber Optic Cable, Side Beam, 3mm dia.	4.72" (12cm)	2m Cable	Z1124-ND	77.11	71.40	66.64	E32-T14L

QUANTUM RESEARCH GROUP Sensors

QProx™ / QTouch™ Charge-Transfer (“QT”) General Description:
These are self-contained digital capacitance ICs capable of detecting proximity, touch, and fluid level. With appropriate electrodes they can sense through sealed surfaces made of glass, plastic, stone, ceramic, and wood, up to thicknesses of several inches. This capability coupled with an ability to continuously calibrate leads to new product concepts. They are designed specifically for control panels in home appliances, PC peripherals, machinery, security systems, lighting controls, or anywhere a mechanical switch or button may be found. Versions also available for fluid sensing.

Features: • Projects a ‘touch button’ through sealed panels • Use with simple foil or PCB electrodes • 100% Autocal for life - no adjustments required • Only one external part, an inexpensive capacitor • Less expensive than many mechanical switches.

QT110:
QTouch sensor IC having 10s and 60s recalibration timeouts, 3 gain settings, normal, pulse, or toggle mode outputs, a Heartbeat™ health indication, and a piezo driver for audible feedback of touch. 20µA typical current. Evaluation board: E110.

QT111:
A QT110 variant having recalibration times of 5 minutes and infinity. Evaluation board: E111.

QT112:
A QT110 variant having a faster response time of 49ms worst case, 25ms typical. No piezo drive. Evaluation board: E112.

QT113:
A highly popular QT110 variant having extremely high variable sensitivity and faster response time. No piezo drive. Evaluation board: E113.

QT114:
This QuickLevel™ IC is designed to detect fluid level. It can even sense fluid level from the exterior of a vessel. Has a ‘slosh filter’ for moving fluids. Evaluation board: E114.

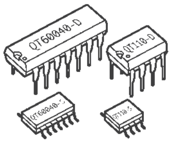
QT115:
A highly popular QT110 variant with variable sensitivity and daisy-chain capability, allowing multiple electrodes to be used next to each other to create multi-key touch panels. No piezo drive. Evaluation board: E115.

QT118H:
This QT110 variant has the basic features of the QT110 but also has the gain capabilities of the popular QT113, at only 20µA of current drain. Active-high output, with piezo drive. Evaluation board: E118H or E110 + QT118H-D chip.

QT140 / QT150 / QT160:
These new QTouch™ devices let you sense 4, 5, or 6 touch keys respectively in one low cost device, making the cost per key very low. These devices feature patent-pending AKS technology to allow proper operation with dense key spacing. Evaluation board: E160.

QT300:
A 2nd generation continuous sensing QProx™ chip that lets you acquire raw signals into your microcontroller, via one of two serial interface types. You can then process these signals to sense fluid level, distance gauging, or material properties. Evaluation board: E3A.

QT310:
A 2nd-generation QProx chip with user-definable setups loadable from a PC via the QTM300CA adapter. Does everything the QT113, QT114, and QT115 can do plus many further advanced features like learn-by-example calibration, variable threshold and hysteresis, fully configurable outputs, and user-defined recalibration timeouts and response time. Especially useful for difficult fluid point-level sensing and prox applications. Evaluation board: E3B.



QT320:
A 2-channel, 2nd-generation QTouch chip with user-definable setups loadable from a PC via the QTM300CA adapter. Does everything the QT113 can do but in two independent channels plus further advanced features like variable threshold and hysteresis, fully configurable outputs, and user-defined recalibration timeouts and response times. Evaluation board: E3B.

QT60040 4-Key QMatrix™ IC:
A 14-pin, 4-key matrix IC requiring only 1 inexpensive capacitor. Has 4 logic outputs. Works through almost any dielectric, like glass, plastic, stone, ceramic, and wood up to 6mm thick. Evaluation board: E604. See Digi-Key website for higher key-count QMatrix™ devices (16, 32, 48, 64 keys), and the E6S3 and E6325 evaluation board series below.

NEW! **QT60161B-AS 16-Key QMatrix™ IC:**
The QT60161B-AS can scan matrix touch keys over LCD panels or other displays when used with clear ITO electrodes arranged in a matrix. It does not require ‘chip on glass’ or other exotic fabrication techniques, thus allowing the OEM to source the matrix from multiple vendors. Materials such as common PCB materials or flex circuits can be used.

Description	Supply Voltage Min.	Supply Voltage Max.	Supply Current µA Type	Operating Temperature	Package	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Quantum Part No.
QT110 QProx™ 8-Pin IC	2.45	5.25	20	0°C to +70°C	8-Dip	427-1000-ND	1.97	1.77	1.60	QT110-D
QT110 QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1002-ND	1.97	1.77	1.60	QT110-IS
QT111 QProx™ 8-Pin IC	2.45	5.25	60	0°C to +70°C	8-Dip	427-1003-ND	1.97	1.77	1.60	QT111-D
QT111 QProx™ 8-Pin IC				0°C to +70°C	8-SOIC	427-1004-ND	1.60	1.44	1.25	QT111-S
QT111 QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1005-ND	1.97	1.77	1.60	QT111-IS
QT112 QProx™ 8-Pin IC	2.45	5.25	60	0°C to +70°C	8-Dip	427-1006-ND	1.97	1.77	1.60	QT112-D
QT112 QProx™ 8-Pin IC				0°C to +70°C	8-SOIC	427-1007-ND	1.60	1.44	1.25	QT112-S
QT112 QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1008-ND	1.97	1.77	1.60	QT112-IS
QT113 QProx™ 8-Pin IC	2.45	5.25	700	0°C to +70°C	8-Dip	427-1009-ND	1.97	1.77	1.60	QT113-D
QT113 QProx™ 8-Pin IC				0°C to +70°C	8-SOIC	427-1010-ND	1.60	1.44	1.25	QT113-S
QT113 QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1011-ND	1.97	1.77	1.60	QT113-IS
QT113H QProx™ 8-Pin IC				0°C to +70°C	8-Dip	427-1012-ND	1.97	1.77	1.60	QT113H-D
QT113H QProx™ 8-Pin IC				0°C to +70°C	8-SOIC	427-1013-ND	1.60	1.44	1.25	QT113H-S
QT113H QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1014-ND	1.97	1.77	1.60	QT113H-IS
QT114 QLevel™ 8-Pin IC	2.50	5.25	20	0°C to +70°C	8-Dip	427-1015-ND	2.53	2.28	1.97	QT114-D
QT115 QProx™ 8-Pin IC	2.45	5.25	700	0°C to +70°C	8-Dip	427-1018-ND	1.97	1.77	1.60	QT115-D
QT115 QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1020-ND	1.97	1.77	1.60	QT115-IS
QT118H QProx™ 8-Pin IC	2.45	5.25	20	0°C to +70°C	8-Dip	427-1021-ND	1.97	1.77	1.60	QT118H-D
QT118H QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1022-ND	1.97	1.77	1.60	QT118H-IS
QT140 QProx™ 4-Key Sensor IC	3.0	5.5	2.5-8.0	0°C to +70°C	28-Dip	427-1059-ND	2.89	2.60	2.34	QT140-D
QT140 QProx™ 4-Key Sensor IC				-40°C to +105°C	28-SSOP	427-1060-ND	2.89	2.60	2.34	QT140-AS
QT150 QProx™ 5-Key Sensor IC	3.0	5.5	2.5-8.0	0°C to +70°C	28-Dip	427-1061-ND	3.27	2.94	2.65	QT150-D
QT150 QProx™ 5-Key Sensor IC				-40°C to +105°C	28-SSOP	427-1062-ND	3.27	2.94	2.65	QT150-AS
QT160 QProx™ 6-Key Sensor IC	3.0	5.5	2.5-8.0	0°C to +70°C	28-Dip	427-1063-ND	3.85	3.47	3.12	QT160-D
QT160 QProx™ 6-Key Sensor IC				-40°C to +105°C	28-SSOP	427-1064-ND	3.85	3.47	3.12	QT160-AS
QT300 QProx™ Sensor IC	1.80	5.0	1500	0°C to +70°	8-Dip	427-1057-ND	3.84	3.46	3.11	QT300-D
QT300 QProx™ Sensor IC				0°C to +70°	8-SOIC	427-1058-ND	3.84	3.46	3.11	QT300-IS
QT310 QProx™ 8-Pin IC	1.80	5.25	60-300	0°C to +70°	8-Dip	427-1026-ND	1.87	1.68	1.52	QT310-D
QT310 QProx™ 8-Pin IC				0°C to +70°	8-SOIC	427-1027-ND	1.50	1.35	1.22	QT310-S
QT310 QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1028-ND	1.87	1.68	1.52	QT310-IS
QT320 2-Key QProx™ 8-Pin IC	1.80	5.25	60-300	0°C to +70°	8-Dip	427-1029-ND	2.43	2.19	1.98	QT320-D
QT320 2-Key QProx™ 8-Pin IC				0°C to +70°	8-SOIC	427-1030-ND	1.94	1.76	1.59	QT320-S
QT320 2-Key QProx™ 8-Pin IC				-40°C to +85°C	8-SOIC	427-1031-ND	2.43	2.19	1.98	QT320-IS
QT60040 4-Key QMatrix™ IC	2.75	5.25	650	0°C to +70°	14-Dip	427-1032-ND	2.89	2.60	2.34	QT60040-D
QT60040 4-Key QMatrix™ IC				-40°C to +85°C	14-SOIC	427-1034-ND	2.89	2.60	2.34	QT60040-IS
QT60161B-AS 16-Key QMatrix™ IC	4.75	5.25	25mA max.	-40°C to +105°C	44-TQFP	427-1071-ND *NEW!*	7.22	6.50	5.85	QT60161B-AS

QProx™ Evaluation Boards and Modules

Note: All evaluation boards and modules are fully assembled and include all necessary chips, cables, and documentation. All evaluation boards run on batteries, included as noted.

QTM1001AHS Sensor Module:
An advanced ready-to-use sensing module designed for applications such as fluid level and prox sensing in industrial equipment. This "smart sensor" module employs the superior QT method, and incorporates a unique 'cloning' feature that permits user-defined setups to be loaded in from an E2SR board (QTM1001CA also required). Has both analog and switched outputs. QTM1001AHS also has a Heartbeat output signal for critical applications.

QTM1001CA Cloning Adapter:
An interface adapter which allows the module to have its option setups programmed from either an E2SR or E97S board. This device has ATE-style spring 'pogo pins' which mate to the QTM1001AS for rapid, effortless configuration.

QTM300CA Cloning Adapter:
Designed to load setups to the QT310 and QT320 sensor ICs from a PC to modify operating modes and parameters in these chips. The supplied cable allows it to plug directly into an E3B evaluation board. It also works in a stand-alone mode without a PC, and can also clone in-circuit. 8 – 15VDC.

QTM2000 Sensor Module:
A ready-to-use 24-pin DIP module employing the feature-rich QT9701B2 IC and related circuitry. Uses an E297S board to load in setups from a PC. The QTM2000 is a complete industrial-grade solution that can be embedded onto a PCB. Includes analog and switched outputs, and SPI and UART serial ports for digital signal data. 5VDC.

E297S Programmer Board:
This board is used to program the QTM2000's behavior from a PC using included QTWinView software. The E297S also operates the QTM2000 as a fully functional sensor for testing purposes. The board has a ZIF socket for insertion of the QTM2000. 8 – 15VDC.

E2SR R&D Sensor:
Designed specifically for development and experimentation, it incorporates a large variety of user-definable modes and processing options. The unit also acts as a programming device for QTM1001A modules when used with a QTM1001CA cloning adapter. Uses QTWinView PC software, included. 8 – 15VDC.

E604 Evaluation Board:
Designed for rapid evaluation of the QT60040 4-key QMatrix IC. Includes 4 piano-style keys with corresponding LEDs to show touch. Battery included.

E616 16-Key Evaluation Board:
Designed for development of QT60161 based 16-key 'glass touch' scanned matrix circuits. Includes everything required to make a fully functioning through-panel matrix control, including an actual 4x4 matrix and plastic panel. Has an RS232 interface for connection to a PC for operation setup and signal viewing; uses QmBtn PC software, included. 8 – 15VDC.

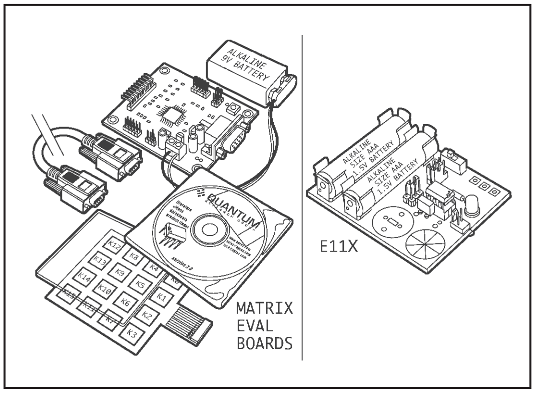
E6485 / QMatrix Evaluation Boards:
Designed for development of QT60325 / QT60485 / QT60645 based 32, 48, and 64-key 'glass touch' scanned matrix circuits. Includes everything required to make a fully functioning through-panel matrix control including an actual flex matrix and plastic panel. These chips use SPI interfaces but a converter chip on the evaluation board converts this to RS232; RS232 allows connection to a PC for operation setup and signal viewing. Uses QmBtn PC software, included. 8 – 15VDC. For actual chips please visit the Digi-Key website.

E11X Evaluation Board:
This evaluation board kit lets you try out the QT110, QT111, QT112, QT113, and QT118H device, all of which are included. No longer do you have to buy a board for each of these parts to test them out; one kit does it all!

E3A Evaluation Board:
This evaluation board is for the QT300 and upcoming QT301 QProx continuous sensing chips. E3A has an LCD bar graph to show signal strength. A connection via the QTM300CA board will give you a live signal connection to a PC for instant display of signal levels, using QT3View software included with the QTM300CA.

E3B Evaluation/Development Board:
For evaluation and development with Quantum's QT310 and QT320 ICs. Either can be inserted into the 8-pin DIP socket (one of each included). Both parts can be cloned with user-defined setup information from a QTM300CA board using a PC via QT3View software. Batteries and software included.

E160 Evaluation Board:
This new evaluation board demonstrates the awesome capabilities of the QT160 device (and by extension, the QT140 and QT150 which are very similar). This UFO-like board has six backlighted sense areas to make a dramatic demonstration, including the AKS feature.

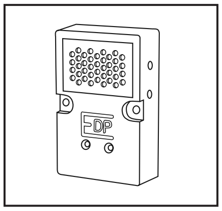

ALKALINE 9V BATTERY
ALKALINE SIZE AAA 1.5V BATTERY
ALKALINE SIZE AAA 1.5V BATTERY
QUANTUM
E11X
MATRIX EVAL BOARDS

Description	Digi-Key Part No.	Price Each	Quantum Part No.
QTM1001AHS Sealed Module, Clonable, with Heartbeat	427-1036-ND	235.00	QTM1001AHS
QTM1001CA Cloning Adapter for QTM1001 Modules	427-1037-ND	49.00	QTM1001CA
QTM300CA Cloning Adapter for QT300, QT310, and QT320 ICs, with Software	427-1038-ND	49.00	QTM300CA
QTM2000 High-Performance QProx 24-pin DIP Module	427-1039-ND	89.00	QTM2000
E297S Programmer for QTM2000 Modules, with Software	427-1040-ND	125.00	E297S
E2SR QProx Development Board, with Software	427-1041-ND	295.00	E2SR
E604 Evaluation Board for QT60040 4-Key QMatrix IC	427-1043-ND	30.00	E604
E616 Evaluation Board for QT60161 16-Key QMatrix IC, with Software	427-1044-ND	180.00	E616
E6485 Evaluation Board for QT60485 48-Key QMatrix IC, with Software	427-1047-ND	190.00	E6485
E6645 Evaluation Board for QT60645 64-Key QMatrix IC, with Software	427-1048-ND	195.00	E6645
E11X Demo Board for QT110, QT111, QT112, and QT113 QTouch ICs	427-1067-ND	19.95	E11X
E3A Evaluation Board for QT300	427-1069-ND	89.00	E3A
E3B Evaluation Board for QT310 and QT320 QProx ICs	427-1056-ND	20.00	E3B
E160 6-Key Evaluation Board	427-1068-ND	75.00	E160

SonaSwitch® Ultrasonic, Intelligent Proximity Sensors

Series 1650A and 1650S

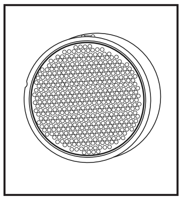
Outputs:
- **Model 1650A:** One 0-5 VDC 8-bit analog output with fully independent zero and span adjustments over entire operating range.
- **Model 1650S:** Two adjustable Form C relay outputs (NO/NC)
- **Environment:** Indoor or protected outdoor environments; Highly insensitive to temperature, humidity and pressure changes; Withstands high audio and EMI/RFI levels; Must be protected from excessive moisture in outdoor applications.
- **Size:** 5.72cm W x 8.89cm H x 2.29cm D (2.25" W x 3.50" H x 0.90" D)
- **Mounting:** Two No. 10 (5/32") machine screws mounted flat on 1.85" centers; Supplied with a 6' cable.
- **Applications:** Vehicle Detection, Anti-Collision Sensor, Automatic Door Opening, Absence/Presence Sorting, Loading Dock Proximity Sensor, People Detection, Distance Measurement, Level Detection and Measurement, and Loop Control.



Series Mini-A and Mini-S

Outputs:
- **Model Mini-A:** One 0-5 VDC 10-bit analog output with fully independent zero and span adjustments over entire operating range.
- **Model Mini-S:** Two adjustable NPN open collector outputs; transistors are continuously energized during detection period.

Output Response Time:
- **Model Mini-S:** Three consecutive target hits before turn on; three consecutive misses before turn off
- **Model Mini-A:** 0-5 VDC analog output is filtered to the approximate formula: V out = 0.9 (Vnew value) + 0.1 (Vpast avg. value)
- **Operating Temperature:** Operating -40 to +85° C (-40 to +185° F)
- **Size:** 1.700" overall diameter; 0.950" depth; 1.525" transducer face diameter
- **Mounting:** Mount in 1.575" diameter hole; use RTV silicone or edge clips to secure in place
- **Applications:** Vehicle Detection, Anti-Collision Sensor, Automatic Door Opening, Absence/Presence Sorting, Loading Dock Proximity Sensor, People Detection, Distance Measurement, Level Detection and Measurement, and Loop Control.



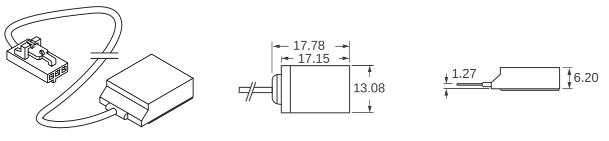
Range	Beam Angle	Power Requirements	Output Type	Digi-Key Part No.	Price Each				EDP Part No.
					1	10	25	50	
6" to 10' Adjustable, ±0.1% Accuracy	15 Degree Nominal	12-30 VDC or 12-24 VAC; 0.15 Amps Maximum Current; 0.08 Amps Average Current.	0-5 or 0-10 VDC 8-bit Analog	387-1002-ND	233.95	226.93	222.25	210.56	1650A
6" to 10' Adjustable, ±0.1% Accuracy	15 Degree Nominal	12-30 VDC or 12-24 VAC; 0.15 Amps Maximum Current; 0.08 Amps Average Current.	2 Form C Relays NO/NC	387-1003-ND	217.22	210.70	206.35	195.90	1650S
6" to 10' Adjustable, ±0.1% Accuracy	15 Degree Nominal	8-16 VDC: 30 ma Maximum Current	0-5 or 0-10 VDC 10-bit Analog	387-1000-ND	69.00	66.93	65.55	62.10	MINI-A
6" to 10' Adjustable, ±0.1% Accuracy	15 Degree Nominal	8-16 VDC: 30 ma Maximum Current	2 NPN Open Collector Outputs	387-1001-ND	65.00	63.05	61.75	58.50	MINI-S

MEASUREMENT SPECIALTIES

Accelerometer

ACH-01-03
with Shielded Cable

Dim. in mm



The ACH-01 Accelerometer is a robust, general purpose, linear single axis accelerometer featuring buffered electronic output.

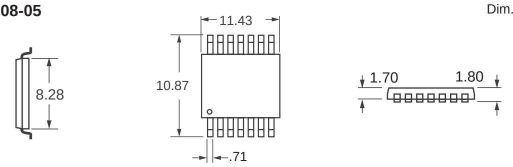
Specifications: • **Sensitivity:** 10mV/g • **Lower Frequency Limit (-3dB):** 2Hz • **Upper Frequency Limit (+3dB):** 20kHz • **Dynamic Range:** ±150g • **Linearity:** 0.1% • **Resonant Frequency:** 35kHz • **Operating Temperature:** -40°C to +85°C • **Max. Shock Level:** 1000g

Description	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
ACH-01-03 Sensor Accelerometer with 40” Single Coax Cable and Female Connector	MSP1001-ND	19.95	18.00	17.00	1-1001220-0
ACH-01-04 Sensor Accelerometer with Wires	MSP1002-ND	19.95	18.00	17.00	1-1001497-0

3-Axis Accelerometer/Shock Sensor

ACH-04-08-05

Dim. in mm



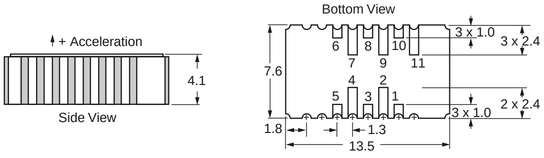
The ACH-04-08-05 accelerometer/shock sensor contains three piezoelectric sensing elements oriented to measure acceleration in three orthogonal, linear axes. “Internal JFET’s provide for a low impedance, buffered output with a wide variety of possible application specific signal conditioning circuitry. It can be used in a wide range of applications including motional measurement and control systems, speaker feedback systems, vibration switches, shipment monitor and material handling systems, security systems, computer input/output devices and data loggers.”

Specifications: • **Sensitivity:** 1.8mV/g Typ. • **Frequency Limit (±3dB):** .35Hz to 5kHz • **Dynamic Range:** ±250g • **Linearity:** 0.1% • **Resonant Frequency:** 9.2kHz • **Operating Temperature:** -40°C to +85°C • **Max. Shock Level:** 1000g

Description	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
ACH-04-08-05 — Surface Mount 3-Axis Sensor Accelerometer	MSP1004-ND	25.00	23.00	21.25	0-1003800-5
ACH-04-08-05 PCB — Surface Mount 3-Axis Sensor Accelerometer with PCB	MSP1005-ND	50.00	45.00	35.00	0-1005685-1

2-Chip Accelerometer

Dim. in mm



The Model 3255 is a two-chip accelerometer designed for low cost surface mount applications. The package can be mounted in one of two orientations, allowing the measurement axis to be either parallel or perpendicular to the mounting surface without the use of costly brackets. It consists of a micro machined silicon mass suspended by multiple beams from a silicon frame. Piezoresistors located in the beams change their resistance as the motion of the suspended mass changes the strain in the beams. Silicon caps on the top and bottom of the device are added to provide over-range stops. This design provides for a very low profile, high shock resistance, durability and built-in damping over a wide usable bandwidth. Each sensor is individually serialized.

Features: • Surface Mount Package • ±0.5% Non-linearity Typ. • Self Test Function • DC Response • Built-in Damping • Built-in Overrange Stops

Acceleration Range	Sensitivity Typ.†	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
±50G	40.0 mV/g	MSP6890-ND	105.00	99.00	65.00	3255-050
±100G	20.0 mV/g	MSP6891-ND	105.00	99.00	65.00	3255-100

† The output voltage increases from the Zero Acceleration Output for positive acceleration and decreases for negative acceleration. Best Fit Straight Line.

Amplifier Box

For use with ACH-01-03 and ACH-01-04

Characteristics:

• **Gain:** 10X • **Power Supply:** 9V Battery • **Supply Current:** 4.0mA • **Input Interface:** FET for ACH-01 • **Output Impedance:** 100Ω • **Output Connector:** BNC

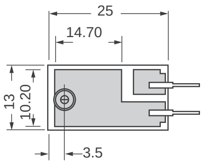
Description	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
IB-ACH-01 — Amplifier Box	MSP1003-ND	100.00	85.50	70.00	0-1003058-0

LDT Vibration Sensor

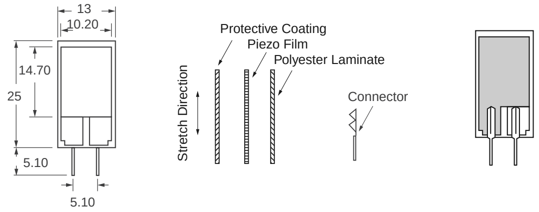
LDTM

Dim. in mm

Also available with a mass (M) which provides higher output (mv/g) for higher sensitivity applications.



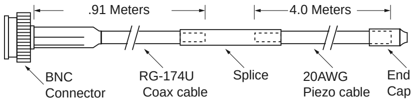
LDT0-028K High Sensitivity



Typically, a 0.005” (125μm) polyester layer is laminated to a 28μm piezo film element. When used in a “bending” mode, laminated film elements develop much higher voltage output when flexed than non-laminated elements. The piezo film is off the neutral axis in the laminate, and is strained more when flexed.

Description	Cap (nF)	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
LDT0-028K, with Solder Tabs	.500	MSP1006-ND	.75	.73	.70	1002794-0
LDTM-028K, with Mass and Solder Tabs	.420	MSP1007-ND	1.00	.85	.75	0-1005447-1

Piezo Polymer Coax Cable Assembly



4 meters of piezo cable plus splice and BNC connector.

Description	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
Piezo Polymer Coaxial Cable Assembly	MSP1009-ND	80.00	68.40	56.00	0-1005707-1

Basic Design Kit

This kit demonstrates the use of MSI piezo film sensors as microphones, speakers, switches and acoustic pickups. All components and film samples in the kit can be used for experimentation.

Kit includes seven sensor elements, one piezo cable, one PCB for ACH-04-08, application/instruction specs, and technical manual.

Description	Digi-Key Part No.	Price Each	MSI Part No.
Basic Design Kit	MSP1010-ND	135.00	0-1004308-0

Sensors – Flow Switches

Specifications: SPST; N.O. 20VA 120-240 VAC or VDC
SPDT; N.O./N.C. 20VA 120-240 VAC or VDC

Fig. 1

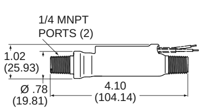


Fig. 2

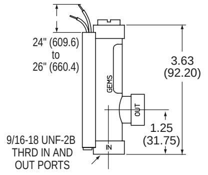


Fig. 3

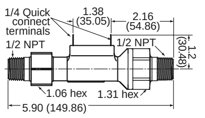


Fig. 4

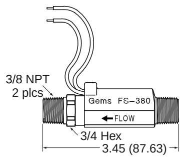


Fig. 5

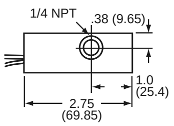


Fig. 6

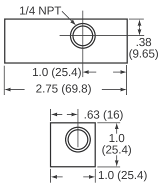
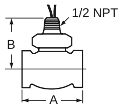


Fig. 7



Port Size	Dimensions - Inch (mm)	
NPT	A	B
1"	3-1/4 (82.6)	3 (76.2)
1-1/2"	4-1/4 (114.3)	3-1/2 (88.9)
2"	5-3/8 (136.5)	4 (101.6)

Fig. 8

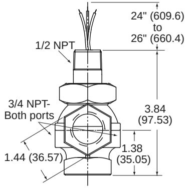
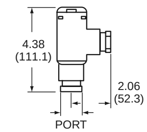


Fig. 9



3/4 IPS Model w/ 1/2 NPT port adapter installed

Fig. 10

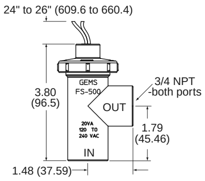


Fig. 11

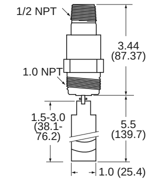


Fig. 12

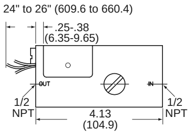


Fig.	Series	Housing	Piston	Spring	Switch Set Point - GPM	Switch	Operating Temperature	Port	Digi-Key Part No.	Price Each			Gems Part No.
										1	10	100	
1	FS-3 Piston Type Compact, Low Flow Units	Noryl®	Noryl® & Epoxy	316 Stainless Steel	0.05	SPST	0°F to 212° F (100°C), Max	1/4" MNPT	376-1103-ND	29.95	23.93	21.04	165840
					0.25				376-1104-ND	29.95	23.93	21.04	165841
					0.50				376-1105-ND	29.95	23.93	21.04	165842
					1.00				376-1106-ND	29.95	23.93	21.04	165843
2	FS-4 Piston Type Molded Plastic Construction	Ryton® R4	316 Stainless Steel	316 Stainless Steel	0.1	SPST	0°F to 225° F (17°C to +107°C)	9/16"-18 UNF	376-1107-ND	59.95	47.85	42.08	122340
					0.25				376-1108-ND	59.95	47.85	42.08	122341
					0.5				376-1109-ND	59.95	47.85	42.08	122342
					1.00				376-1110-ND	59.95	47.85	42.08	122344
3	FS-150 Piston Type Straight-through Flow Path with Low Pressure Drop	Polypropylene	Ryton® R4 316 SS	316 Stainless Steel	0.50	SPST	0°F to 212° F (-17.8°C to +100°C)	1/2" NPT	376-1111-ND	64.95	51.84	45.59	129660
					1.00				376-1112-ND	64.95	51.84	45.59	129661
					2.00				376-1113-ND	64.95	51.84	45.59	129662
4	FS-380 Piston Type Compact Flow Switch for High Inline Pressures	Brass	PPS Composite	316 Stainless Steel	0.25	SPST	-20°F to +275° F (-28.8°C to +135°C)	3/8" NPT	376-1114-ND	79.95	63.80	56.10	168432
		Brass			0.50				376-1115-ND	79.95	63.80	56.10	168433
		Brass			1.00				376-1116-ND	79.95	63.80	56.10	168434
		316 SS			0.25				376-1117-ND	164.95	120.70	110.72	179992
5	FS-925 Piston Type General Purpose	Brass	Poysulfone for Water Brass for Oil or Air	316 Stainless Steel	0.10 ±10%	SPDT	-20°F to +300° F (-29°C to +148.9°C)	1/4 " NPT	376-1118-ND	139.95	102.41	93.94	26914
					0.25 ±10%				376-1119-ND	139.95	102.41	93.94	26915
					0.50 ±10%				376-1120-ND	139.95	102.41	93.94	26916
					1.00 ±10%				376-1121-ND	139.95	102.41	93.94	26918
		316 SS	316 Stainless Steel		0.10 ±10%				376-1122-ND	289.95	203.37	191.40	26926
					0.25 ±10%				376-1123-ND	289.95	203.37	191.40	26927
6	FS-927 Piston Type Compact Brass Switches	Brass	Brass	316 Stainless Steel	0.10	SPST	-20°F to +200° F (-29°C to +93.3°C)	1/4 " NPT	376-1124-ND	74.95	59.82	52.60	70820
					0.25				376-1125-ND	74.95	59.82	52.60	70821
					0.50				376-1126-ND	74.95	59.82	52.60	70822
					1.00				376-1127-ND	74.95	59.82	52.60	70824
7	FS-200 Shuttle Type General Purpose, Straight-Through Flow Path	Bronze	Ceramic	316 Stainless Steel	0.5	SPDT	-20°F to +200° F (-29°C to +93.3°C)	1" NPT	376-1134-ND	139.95	102.41	93.94	27051
		Bronze			1			1" NPT	376-1135-ND	139.95	102.41	93.94	27052
		Bronze			2			1" NPT	376-1136-ND	139.95	102.41	93.94	27053
		Bronze			3			1" NPT	376-1137-ND	139.95	102.41	93.94	27054
		Bronze			4			1" NPT	376-1138-ND	144.95	106.07	97.30	27055
		Bronze			5			1" NPT	376-1139-ND	139.95	102.41	93.94	27056
		Bronze			1.5			1-1/2" NPT	376-1140-ND	299.95	210.38	198.00	27085
		316 SS			2.0			2" NPT	376-1141-ND	674.95	473.35	445.50	27109
		Bronze			1.0 to 6.0 Adj.			1" NPT	376-1142-ND	154.95	113.39	104.01	26615
		Bronze			5.0 to 15.0 Adj.			1" NPT	376-1143-ND	154.95	113.39	104.01	26616
		Bronze			2.0 to 8.0 Adj.			1" NPT	376-1144-ND	154.95	113.39	104.01	26838
8	FS-400 Shuttle Type General Purpose, 90° Flow Path	Bronze	Ceramic	316 Stainless Steel	0.75 to 4.0 Adj.	SPDT	-20°F to +180° F (-29°C to +82.2°C)	3/4" NPT	376-1145-ND	149.95	109.73	100.65	26600
					2.0 to 8.0 Adj.				376-1146-ND	149.95	109.73	100.65	26601
					0.75				376-1147-ND	119.95	87.78	80.52	26440
9	FS-400P Shuttle Type for Plastic Piping	PVC	Epoxy	—	0.5 ±20%	SPST	+120°F Max. (+48.9°C)	1/2" NPT	376-1148-ND†	59.95	47.85	42.08	135805
					0.5 ±20%			3/4" IPS	376-1149-ND	49.95	39.88	35.07	135810
					2.0 ±20%			1" IPS	376-1150-ND	49.95	39.88	35.07	135815
10	FS-500 Paddle Type for Threaded Plastic Piping	Polypropylene	Polypropylene (Bonnet - not a spring)	316 SS	1.00	SPST	0°F to 212°F Max. (100°C)	—	376-1151-ND	49.95	39.88	35.07	170233
11	FS-550 Paddle Type High Pressure Metal Paddle Switch	Brass	Ceramic & Teflon®	316 Stainless Steel	Long	SPDT	-30°F to +300° F (-34.4°C to +148.9°C)	1/2" NPT/1" NPT	376-1152-ND	149.95	109.73	100.65	29609
		316 SS			Long				376-1153-ND	234.95	164.80	155.10	29608
		Brass			Short				376-1154-ND	149.95	109.73	100.65	30641
		316 SS			Short				376-1155-ND	234.95	164.80	155.10	30640

† 3/4" IPS model with 1/2" NPT port adapter installed.

Fig.	Series	Housing	Piston	Spring	Switch Set Point GPM	Switch	Port	Interface	Operating Temperature	Digi-Key Part No.	Price Each			Gems Part No.
											1	10	100	
12	FS-10798 Piston Type Externally Adjustable for Water, Oils and Gases	Brass	Polysulfone (water)	316 Stainless Steel	0.5 to 20.0 Adj.	SPDT	1/2" NPT	1/2" Conduit Connector	-20°F to +225°F (-29°C to +107.2°C)	376-1128-ND	309.95	217.39	204.60	25363
		316SS	316 Stainless Steel					1/2" Conduit Connector	-20°F to +300°F (-29°C to +148.9°C)	376-1129-ND	479.95	336.60	316.80	25364
		Brass	Polysulfone (water)					Wire Leads	-20°F to +225°F (-29°C to +107.2°C)	376-1130-ND	284.95	199.86	188.10	25357
		Brass	Brass					1/2" Conduit Connector	-20°F to +300°F (-29°C to +148.9°C)	376-1131-ND	309.95	217.39	204.60	25365
		Brass	Brass for Oils					1/2" Conduit Connector	-20°F to +300°F (-29°C to +148.9°C)	376-1132-ND	309.95	217.39	204.60	49073
		Brass	Brass					Wire Leads	-20°F to +300°F (-29°C to +148.9°C)	376-1133-ND	284.95	199.86	188.10	25359

FABRI-LEVEL™ Kits

FABRI-LEVEL Switch Kits contain all components for complete assembly of a 1- or 2-station level switch unit for pipe-plug mounting in your tank. N.O. or N. C. operation of the SPST switch is selectable by inverting the float(s) on the unit stem.

Each Kit Contains:
1 Tube Connector
1 Mounting Plug
2 Extension Tubes
1 Tube End Fitting
3 Tube Unions
2 Level Stations (Switch,Tube,Float)

Fittings	Floats	Mounting Port	Digi-Key Part No.	Price Each			Gems Part No.
				1	10	100	
Brass	Buna N	1-1/4"	376-1043-ND	271.95	190.74	179.52	26128
Brass	Buna N	2"	376-1044-ND	285.95	200.56	188.76	24576
316 Stainless Steel	316 Stainless Steel	2"	376-1045-ND	596.95	418.65	394.02	24577

Sensors – Float Type Level Switches

LS-3 Series: • Small size engineered plastics • High reliability • Compact Size • Ideal for shallow tanks or restricted spaces. **Part No. 376-1010-ND (46999)**: For external mounting on tanks too small to accommodate internally mounted switches. **Part No. 376-1011-ND (76707)**: For detecting levels as low as 5/8" tank bottom. Use in water, gasoline, some oils and chemicals

LS-7 Series: • Small size engineered plastics • Compact side mounts • Ideal for high volume use in small tanks and vessels • Engineered plastics construction offers broad compatibility in water, oils and chemicals

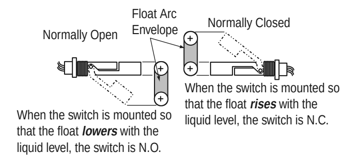
LS-1700, LS-1750, LS-1755 Series: • Small size alloys • Rugged durability with broad heat and pressure capabilities, are hallmarks of these compact switches • Ideal for shallow tanks or restricted spaces

LS-77700 Series: • Bent stem switches • Provide greatest buoyancy of any side mount version • These units perform in liquids with specific gravities as low as .45; switches protrude into tank less than 3 inches

LS-1800, LS-1900 Series: • Large size alloys • A step above our plastic units for pressure capabilities • Excellent stability for general use in oils and water

LS-74780, LS-1900TFE Series: • Large size engineered plastics • For aggressive or ultra-pure liquids • The LS-74780 series is particularly well suited for rough service. Ideal for use in chemical and plating applications • The LS-1900TFE series resists build-up of foreign material or sticky media. Float travel remains uninhibited in viscous or corrosive liquids

LS-1850, LS-1950 Series: • Large size alloys • All stainless steel switches deliver highest pressure/temp. performance • Materials of construction comply with FDA food contact regulations • The LS-1850 series is ultra-light. For use in liquids with specific gravities as low as 0.40 to 0.70. Excellent in a wide range of chemical applications • The LS-1950 Series is exceptionally accurate and rugged for higher temperatures and in pressurized or corrosive liquids. For oils, water and chemicals.



When the switch is mounted so that the float *lowers* with the liquid level, the switch is N.O.

When the switch is mounted so that the float *rises* with the liquid level, the switch is N.C.

LS-800-5 Series: • Large size alloys • Bottle type level switches are ideal for large or small tanks or where access to the inside is impractical or impossible • These units mount completely outside of the tank, at the level actuation point

LS-2050, LS-52100 Series: • Large size alloys • These side mounting units solve the problem of point level sensing in tanks with inaccessible tops or bottoms, or at intermediate locations in larger tanks • Operation is positive and dependable • The float pivots with changing liquid level, displacing a shuttle with magnetically actuates a hermetically sealed switch within the unit • Installation is through the tank side at the detection point

TH-800, LS-270 Series: • Specialty Switches • Ideal for use in oils and water • The TH-800 series temperature/level switch in a single unit. Intermediate in size; single-setting temperature sensor is in bottom of stem • The LS-270 series bracket mounting slosh shield. Small, lightweight, and extremely stable in nonstatic, highly contaminated liquids. Slosh Shielding minimizes effects of turbulence and helps prevent interference by foreign material.

LS-10 Series: • Slim profile for interstitial liquid sensing • Accurately detects the presence of liquid in fiberglass double-wall tanks, containment sumps and double-wall pipes • Dry contact switching ensure dependability throughout its long service life • Reusable sensor easily fits small, interstitial spaces and senses liquid hydrocarbons or water • Unaffected by hydrocarbon vapor, thereby reducing the risk of false alarms • Round design makes it easy to remove, clean and reinstall after an alarm condition is triggered, or for maintenance

Fig. 1

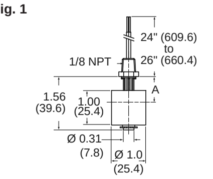


Fig. 2

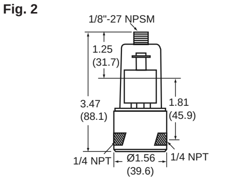


Fig. 3

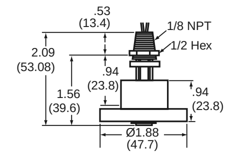


Fig. 4 Internal Mounting

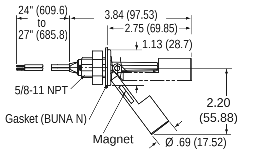


Fig. 5 External Mounting

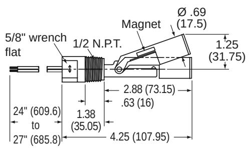


Fig. 6 External Mounting

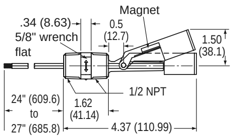


Fig. 7 External Mounting

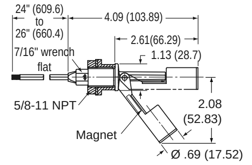


Fig. 8 External Mounting

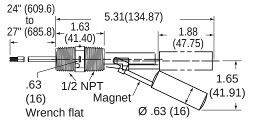


Fig. 9

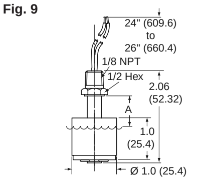


Fig. 10

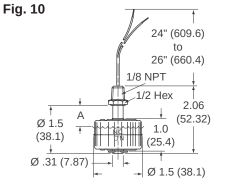


Fig. 11

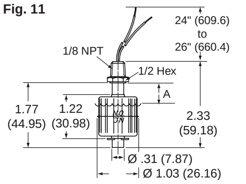


Fig. 12

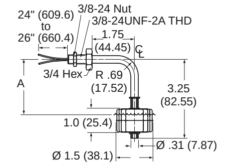


Fig. 13

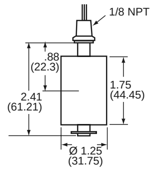


Fig. 14

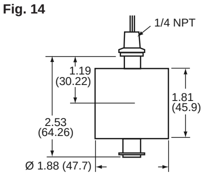


Fig. 15

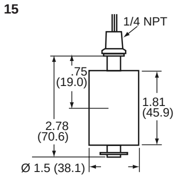


Fig. 16

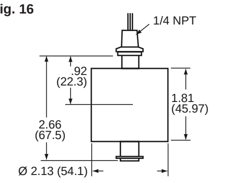


Fig. 17

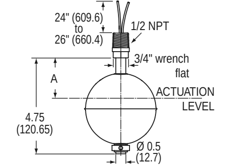


Fig. 18

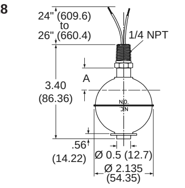


Fig. 19

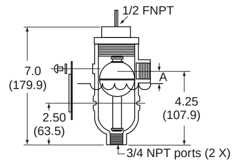


Fig. 20

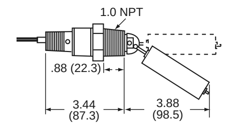


Fig. 21

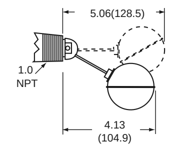


Fig. 22

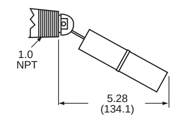


Fig. 23

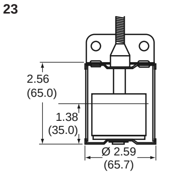


Fig. 24

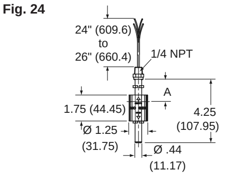


Fig. 25

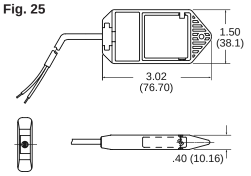


Fig.	Series	Switch Rating	Switch Type	Material Stem & Mounting/Float	Min. Liquid Sp. Gr.	Dim. A - Switch Act. N.O./N.C.- Inch (mm)	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	LS-3	20VA, 120-240VAC	SPST	Polysulfone	.75	.750 (19.05) / —	-40°F to +225°F (-40°C to +107°C)	376-1007-ND	23.95	19.14	16.83	42295
1				Polypropylene/ Polypropylene (Hollow)	.60	.813 (20.65) / —	-40°F to +225°F (-40°C to +107°C)	376-1008-ND	23.95	19.14	16.83	142505
1				Polypropylene/ Polypropylene (Solid)	.90	.563 (14.30) / —	-40°F to +150°F (-40°C to +66°C)	376-1009-ND	23.95	19.14	16.83	116826
2				Polysulfone	.75	—	-40°F to +120°F (-40°C to +48.9°C)	376-1010-ND	97.95	71.69	65.76	46999
3				Polysulfone/Buna N	—	—	-40°F to +180°F (-40°C to +82.2°C)	376-1011-ND	35.95	28.71	25.25	76707
4	LS-7	130VAC 20VA	SPST	Polypropylene (20% Glass)	.55	—	-40°F to +225°F (-40°C to +107.2°C)	376-1012-ND	25.95	20.74	18.24	164520
5				Polypropylene (20% Glass)	.55	—	-40°F to +225°F (-40°C to +107.2°C)	376-1013-ND	23.95	19.14	16.83	131100
5				Nylon (13% Glass)	.65	—	-40°F to +250°F (-40°C to +121.1°C)	376-1014-ND	23.95	19.14	16.83	140620
5				Versaplast®	.80	—	-40°F to +300°F (-40°C to +149°C)	376-1015-ND	26.95	21.54	18.94	177100
6				Polypropylene	.55	—	-40°F to +225°F (-40°C to +107.2°C)	376-1016-ND	23.95	19.14	16.83	160450
6				Nylon	.65	—	-40°F to +250°F (-40°C to +121.1°C)	376-1017-ND	23.95	19.14	16.83	160460
7				Polypropylene (20% Glass)	.55	—	-40°F to +225°F (-40°C to +107.2°C)	376-1018-ND	25.95	20.74	18.24	165800
8				316 Stainless Steel	.80	—	-40°F to +300°F (-40°C to +149°C)	376-1019-ND	153.95	112.66	103.34	164870
9	LS-1700	20VA, 120-240VAC	SPST	Brass/Buna N 316 Stainless Steel/Buna N	.45	.563 / .813 (14.30) /(20.65)	Water: to 180°F (82.2°C) Oil: -40°F to +230°F (-40°C to +110°C)	376-1020-ND 376-1021-ND	29.95 50.95	23.93 40.68	21.04 35.77	01701 01702
10	LS-1750	20VA, 120-240VAC	SPST	316 Stainless Steel	.70	.625 / .750 (15.88) / (19.05)	-40°F to +300°F (-40°C to +148.9°C) -40°F to +480°F (-40°C to +248.9°C)	376-1022-ND 376-1023-ND	57.95 77.95	46.26 62.21	40.68 54.70	01750 79990

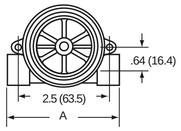
(Continued)

Sensors – Float Type Level Switches *(Cont.)*

Fig.	Series	Switch Rating	Switch Type	Material Stem & Mounting/Float	Min. Liquid Sp. Gr.	Dim. A - Switch Act. N.O./N.C.- Inch (mm)	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
11	LS-1755	20VA, 120-240VAC	SPST	316 Stainless Steel	.90	.578 (14.68) / .828 (21.03)	-40°F to +300°F (-40°C to +148.9°C)	376-1024-ND	58.95	47.06	41.38	01755
12	LS-77700	20VA, 120-240VAC	SPST	316 Stainless Steel	.70	2.00 (50.80)±.188 (4.78)	-40°F to +300°F (-40°C to +148.9°C)	376-1025-ND	83.95	66.99	58.91	117716
13	LS-1800	20VA, 120-240VAC 100VA, 120-240VAC 20VA, 120-240VAC	SPST	Brass/Buna N Brass/Buna N 316 Stainless Steel/Buna N	.75	—	Water: to 180°F (82.2°C) Oil: -40°F to +230°F (-40°C to +110°C)	376-1026-ND 376-1027-ND 376-1028-ND	34.95 42.95 55.95	27.92 34.30 44.66	24.55 30.16 39.27	01801 35651 01807
14	LS-1900	20VA, 120-240VAC 100VA, 120-240VAC 20VA, 120-240VAC	SPST	Brass/Buna N Brass/Buna N 316 Stainless Steel/Buna N	.55	—	Water: to 180°F (82.2°C) Oil: -40°F to +230°F (-40°C to +110°C)	376-1029-ND 376-1030-ND 376-1031-ND	41.95 49.95 60.95	33.50 39.88 48.65	29.46 35.07 42.78	01901 35676 01907
15	LS-74780	20VA, 120-240VAC	SPST	CPVC	.85	—	-40°F to +180°F (-40°C to +82.2°C)	376-1033-ND	53.95	43.07	37.87	74780
16	LS-1900TFE	20VA, 120-240VAC	SPDT	Teflon®	.80	—	-40°F to +300°F (-40°C to +148.9°C)	376-1032-ND	321.95	225.81	212.52	133299
17	LS-1850	20VA, 120-240VAC	SPST	316 Stainless Steel	.40	2.500 (63.50) / —	-40°F to +300°F (-40°C to +148.9°C)	376-1034-ND	259.95	182.33	171.60	113820
18	LS-1950	20VA, 120-240VAC 100VA, 120-240VAC 20VA, 120-240VAC	SPST	316 Stainless Steel	.80	1.094 (27.79) / —	-40°F to +300°F (-40°C to +148.9°C) -40°F to +300°F (-40°C to +148.9°C) -40°F to +480°F (-40°C to +248.9°C)	376-1035-ND 376-1036-ND 376-1037-ND	60.95 68.95 98.95	48.65 55.03 72.42	42.78 48.39 66.43	01950 26717 79999
19	LS-800-5	20VA, 120-240VAC	SPST	Brass/316 Stainless Steel 316 Stainless Steel	.75	.750 (19.05) / — .438 (11.13) / —	-40°F to +300°F (-40°C to +148.9°C)	376-1169-ND 376-1170-ND	168.95 558.95	123.63 392.00	113.40 368.94	172625 172635
20 21	LS-2050	20VA, 120-240VAC	SPDT	Brass/Buna N 316 Stainless Steel	.8	—	Water: to 180°F (82.2°C) Oil: -40°F to +250°F (-40°C to +121°C)	376-1038-ND 376-1039-ND	149.95 229.95	109.73 161.29	100.65 151.80	30288 30290
22	LS-52100	20VA, 120-240VAC 20VA, 120-240VAC 100VA,120-240VAC	SPDT SPDT SPST	316 Stainless Steel/304 Stainless Steel	.85	—	-40°F to +300°F (-40°C to +148.9°C)	376-1040-ND 376-1041-ND* 376-1042-ND	222.95 325.95 244.95	156.38 228.61 171.81	147.18 215.16 161.70	52100 121753 116971
23	LS-270	20VA, 120-240VAC 20VA, 120-240VAC 50VA, 120-240VAC 50VA, 120-240VAC	SPST	304 Stainless Steel/Buna N	.55	—	-40°F to +140°F (-40°C to +60°C)	376-1046-ND† 376-1047-ND‡ 376-1048-ND◊ 376-1049-ND§	90.95 90.95 98.95 98.95	66.57 66.57 72.42 72.42	61.07 61.07 66.43 66.43	43765 43760 43980 43982
24	TH-800	20VA, 120-240VAC	SPST	Brass/Buna N	.75	1.500 (38.10) / —	Water: to 180°F (82.2°C) Oil: -40°F to +230°F (-40°C to +110°C)	376-1050-ND 376-1051-ND	65.95 65.95	52.64 52.64	46.29 46.29	57143 57144
25	LS-10	10W, 50-120VDC	SPST	Valox® Housing/Polyethylene	—	—	-40°F to +176°F (-40°C to +80°C)	376-1052-ND	68.95	55.03	48.39	156000

* Explosion-Proof † N.C., open on +150F° ±10°F (83.3°C ±5.6°C) incr. ‡ N.C., open on +150F° ±10°F (83.3°C ±5.6°C) incr. ◊ N.O. § N.C.

Flow Sensors



Features: Operating Temperature: Brass: -20°F to 212°F (-29°C to 100°C), Polypropylene Body: -20°F to 180°F (-29°C to 82°C)

RFS Series - Flow Set Point Switching: Combines visual confirmation of flow with dynamic, electronic switch operation. Easy, adjustable switch point calibration: a local LED signals when set point is reached.

RFO Type - Flow Rate Monitoring: Output signal for RFO Types is an on/off pulse of the DC voltage supplied to the unit, it is compatible with all digital logic families. Frequency of the output pulse is proportional to the flow rate and ranges from approximately 25Hz at low flow to 225Hz at high flow.

RFI Type - Visual Indicators: A bright orange rotor turning with fluid flow. Simple, direct and reliable. Flow rate is estimated, or simply confirmed, by viewing the speed of the turning rotor. Either port may be used for incoming flow, and bayonet mounting lens is easily removed for quick clean out.

Series	Input Voltage	Flow Range GPM	Body Material	Port NPT	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
RFS Type SPDT	24VDC	0.5 to 5.0	Polypropylene	1/4"	3.06 (77.7)	376-1079-ND	144.95	106.07	97.30	155425
	110VAC	0.5 to 5.0	Polypropylene	1/4"	3.06 (77.7)	376-1080-ND	164.95	120.70	110.72	155876
	24VDC	4.0 to 20.0	Polypropylene	1/2"	3.06 (77.7)	376-1081-ND	144.95	106.07	97.30	155485
	110VAC	4.0 to 20.0	Polypropylene	1/2"	3.06 (77.7)	376-1082-ND	164.95	120.70	110.72	155886
	24VDC	0.5 to 5.0	Brass	1/4"	3.01 (76.4)	376-1083-ND	189.95	133.24	125.40	156265
	110VAC	0.5 to 5.0	Brass	1/4"	3.01 (76.4)	376-1084-ND	209.95	147.27	138.60	156266
	24VDC	4.0 to 20.0	Brass	1/2"	3.01 (76.4)	376-1085-ND	189.95	133.24	125.40	156268
	110VAC	4.0 to 20.0	Brass	1/2"	3.01 (76.4)	376-1086-ND	209.95	147.27	138.60	156269
	24VDC	5.0 to 30.0	Brass	3/4"	3.94 (100)	376-1087-ND	194.95	136.75	128.70	180395
	110VAC	5.0 to 30.0	Brass	3/4"	3.94 (100)	376-1088-ND	214.95	150.77	141.90	180396
	24VDC	8.0 to 60.0	Brass	1"	3.94 (100)	376-1089-ND	199.95	140.25	132.00	181688
	115VAC	8.0 to 60.0	Brass	1"	3.94 (100)	376-1090-ND	219.95	154.28	145.20	181689
RFO Type	4.5-24VDC	0.5 to 5.0	Polypropylene	1/4"	3.06 (77.7)	376-1091-ND	79.95	63.80	56.10	155421
		4.0 to 20.0	Polypropylene	1/2"	3.06 (77.7)	376-1092-ND	79.95	63.80	56.10	155481
		0.5 to 5.0	Brass	1/4"	3.01 (76.4)	376-1093-ND	129.95	95.10	87.23	156261
		4.0 to 20.0	Brass	1/2"	3.01 (76.4)	376-1094-ND	129.95	95.10	87.23	156262
		5.0 to 30.0	Brass	3/4"	3.94 (100)	376-1095-ND	139.95	102.41	93.94	194761
		8.0 to 60.0	Brass	1"	3.94 (100)	376-1096-ND	139.95	102.41	93.94	194762
RFI Type	Visual Indicator	0.5 to 5.0	Polypropylene	1/4"	3.06 (77.7)	376-1097-ND	37.95	30.31	26.65	155420
		4.0 to 20.0	Polypropylene	1/2"	3.01 (76.4)	376-1098-ND	37.95	30.31	26.65	155480
		0.5 to 5.0	Brass	1/4"	3.01 (76.4)	376-1099-ND	79.95	63.80	56.10	142541
		4.0 to 20.0	Brass	1/2"	3.01 (76.4)	376-1100-ND	79.95	63.80	56.10	142542
		5.0 to 30.0	Brass	3/4"	3.94 (100)	376-1101-ND	89.95	71.78	63.12	180392
		8.0 to 60.0	Brass	1"	3.94 (100)	376-1102-ND	89.95	71.78	63.12	181681

Electromechanical Controls

Series 1- Electromechanical Controls: Series 1 electromechanical controls offer 2 or 3 pole output contacts with 16 amp rating. Versatile controls can be configured for single level service, differential control, low water cutoff (with manual reset or lock out capability) control and many other functions. **Specifications:** • Contact Rating (110VAC) - 16A Resistive 1 hp • Temperature: -30°F to 130°F.

Series 3E - Conductive Switches: Attachment to vessels is accomplished with external pipe threading. Fittings require the use of 3R rigid wire suspended electrodes. **Specifications:** • Pressure/Temp.: 125 psig @ 353°F (cast iron); 250 psig @ 406°F (brass)

Series 3B - Two Piece Threaded Coupling: These fittings incorporate a 1/4-20 female thread that must be combined with a Series 3R rigid electrode wire suspended electrode to make a complete assembly. **Specifications:** • Two-Piece Threaded Coupling • Teflon® Insulation Sleeve • Pressure/Temperature: 400 psig @ 406°F • Body Material - 316 Stainless Steel

Series 3R - General Purpose 1/4" (.64cm) Threaded Rod: Metallic rods with threaded ends that screw into a fitting that extends vertically down into the liquid

Series 1 - Electromechanical Controls

Fig.	Primary Voltage	Secondary Voltage /Sensitivity	Contact Configuration	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	115VAC	300VAC / 7K Ohm	2 (N.O.), 0 (N.C.)	376-1060-ND	111.95	81.93	75.16	1C1DO
	115VAC	300VAC / 7K Ohm	1 (N.O.), 1 (N.C.)	376-1061-ND	111.95	81.93	75.16	1D1DO
	115VAC	500VAC / 20K Ohm	1 (N.O.), 1 (N.C.)	376-1062-ND	111.95	81.93	75.16	1D1EO
	230VAC	300VAC / 7K Ohm	1 (N.O.), 1 (N.C.)	376-1063-ND	111.95	81.93	75.16	1D2DO
	115VAC	300VAC / 7K Ohm	2 (N.O.), 1 (N.C.)	376-1064-ND	121.95	89.25	81.87	1G1DO
	115VAC	500VAC / 20K Ohm	2 (N.O.), 1 (N.C.)	376-1065-ND	121.95	89.25	81.87	1G1EO
	230VAC	300VAC / 7K Ohm	2 (N.O.), 1 (N.C.)	376-1066-ND	121.95	89.25	81.87	1G2DO

Series 3E - Conductive Switches

Fig.	Vessel/Boss Thread	Terminal Housing Size WxDxH - Inches (mm)	No. of Probes	Body Material	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
2	1" NPT/ 1/2" NPT 1" NPT/ 1/2" NPT	2-1/4 x 2-1/4 x 2-1/4 (57.15 x 57.15 x 57.15)	1 1	Red Brass Cast Iron	376-1069-ND 376-1073-ND	71.95 58.95	57.42 47.06	50.49 41.38	3E1B 3E1A
	2" NPT/ 1/2" NPT 2" NPT/ 1/2" NPT 2-1/2" NPT/ 1/2" NPT	3-1/4 x 3-1/4 x 2-3/8" (82.55 x 82.55 x 60.33)	2 3 4	Red Brass Red Brass Red Brass	376-1070-ND 376-1071-ND 376-1072-ND	109.95 132.95 155.95	80.47 97.29 114.12	73.81 89.25 104.68	3E2B 3E3B 3E4B
	2" NPT/ 1/2" NPT 2" NPT/ 1/2" NPT 2-1/2" NPT/ 1/2" NPT		2 3 4	Cast Iron Cast Iron Cast Iron	376-1074-ND 376-1075-ND 376-1076-ND	89.95 112.95 135.95	71.78 82.66 99.49	63.12 75.83 91.26	3E2A 3E3A 3E4A

Fig. 1

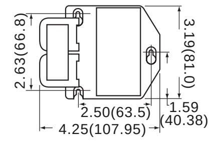


Fig. 2

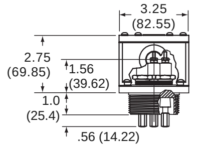


Fig. 3

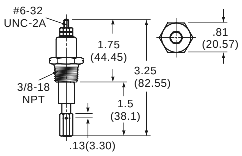
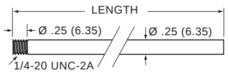


Fig. 4



Bare Electrode

Series 3B - Two Piece Threaded Coupling

Fig.	Thread / Probes Required	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
3	3/8"-18NPT / 3R Series 5/8"-24NEF / 3R Series	376-1067-ND 376-1068-ND	25.95 22.95	20.74 18.35	18.24 16.13	3B1B 3B3B

Series 3R - General Purpose Threaded Rod

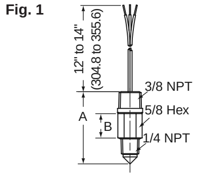
Fig.	Length (Feet)	Probe Material	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
4	1 3	316 Stainless Steel	376-1077-ND 376-1078-ND	7.95 23.95	7.31 19.14	5.61 16.83	3R1CO 3R3CO

Electro-Optic Sensors

Compact, Electro-Optic Liquid Level Switches and Controllers **Features:** • Small size • Built-in, solid-state electronics • No moving parts • Simple, one-unit installation **Specifications:** Max. Operating Pressure: 0 to 150 PSI **(Not recommended for use in any liquid that crystallizes or leaves a solid residue.)** **ELS-1100**: Output: TTL/CMOS compatible, Open collector **ELS-1100HT:** Output: TTL/-CMOS compatible, Transistor output w/10K pull-up resistor **ELS-1100TFE:** Output: TTL/CMOS compatible, Open collector

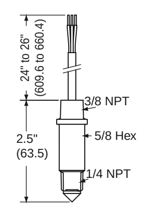
Fig.	Series	Input Volt. (VDC)	Probe Cond. @ Cur. Sink	Material Housing/Prism	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	ELS-1100	10-28	Dry	Polysulfone	0°F to +176°F 17.8°C to +80°C	376-1000-ND	73.95	59.02	51.90	143570
		5	Wet			376-1001-ND	64.95	51.84	45.59	138167
		10-28	Wet			376-1002-ND	73.95	59.02	51.90	142700
	ELS-1100HT	12	Wet	Isoplast®	-40°F to +212°F 40°C to +100°C	376-1004-ND	69.95	55.83	49.09	153063
		12	Dry			376-1005-ND	72.95	58.22	51.20	153064
	ELS-1100TFE	10-28	Dry	Teflon®	0°F to 176°F (-17.8°C to +80°C)	376-1006-ND	198.95	139.55	131.34	173700
2	ELS-1100	10-28	Wet	Polysulfone	0°F to 176°F (-17.8°C to +80°C)	376-1003-ND	81.95	65.40	57.51	143585

Fig. 1



Series	Dimensions - Inch (mm) A	B (Hex.)
ELS-1100	2-5/32 (54.7)	5/8 (15.9)
ELS-1100HT	2 (50.8)	3/4 (19.0)

Fig. 2



Non-Intrinsically Safe Relays

Boosts Your Sensor's Load Handling Ability

Features: • Operating Temperature: -0°F to +120°F (-17.8°C to 48.9°C) • SPST, N.O. Operation • Amplify current handling capability of sensors for controlling high power loads • Compact polysulfone bodies are totally encapsulated • Impervious to shock or vibration • Solid State Reliability • Max Current 5A AC

FLIP-PAKS: Provide low current. "Start-stop" or "on-off" switching for industrial motor, liquid level and other control systems. Units hold operational state up to 1/2 second during momentary power loss to cut nuisance shutdowns; low voltage protection is inherent.

LOAD-PAKS: Integrated, solid-state switches that amplify current handling capabilities of sensors for controlling high power loads.

Fig.	Relay Style	Operating Voltage	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	FLIP-PAK	100 to 130VAC	-0°F to +120°F	376-1167-ND	93.95	68.77	63.08	28196
2	LOAD-PAK	24 to 260VAC	(-17.8°C to 48.9°C)	376-1168-ND	56.95	45.46	39.98	20173

Fig. 1

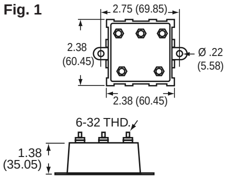
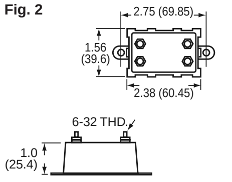


Fig. 2



Intrinsically Safe Control Relays

Series 27: • Cannot ignite flammable materials • Solid state reliability • Internal surge suppression • Can be used for single level or differential service

Series 67: • Inverse or direct acting, field selectable • Solid state reliability • Compact size • Four independent channels - 2 single, 2 differential • Field adjustable • LED channel indicators • Built-in silence/acknowledge circuit • U.L. "intrinsically safe"

Series 16VM: • Compact Size • Modular plug-in design • LED monitoring • Surge protection • Various time delays • Low voltage sensor • Solid state reliability • Up to 1 million ohms/cm sensitivity • 11-pin octal or DIN style plug • CSA approved • U.L. "motor control"

Series 16M: • Compact Size • Modular plug-in design • LED monitoring • Surge protection • Various time delays • Low voltage sensor • Solid state reliability • Up to 5.5 million ohms/cm sensitivity • 8-pin plugs • CSA approved • U.L. "motor control"

Fig. 1

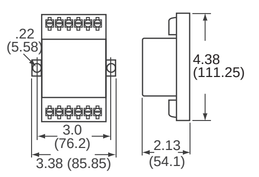


Fig. 2

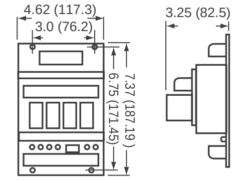


Fig. 3

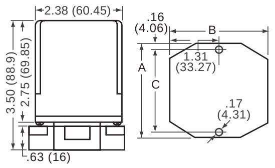


Fig.	Series (SPDT)	Primary Voltage	Secondary Voltage	Sensitivity	Mode of Operation	Contact Rating	Dimensions - Inches (cm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	27	120VAC 60Hz	11VAC 2.3mA	3K Ohm	Direct	8 Amp Resistive	—	—	—	376-1053-ND	200.95	140.96	132.66	27A1D0
				10K Ohm	Direct		—	—	—	376-1054-ND	200.95	140.96	132.66	27A1E0
2	67	120VAC 60Hz	12VAC 6mA RMS	26K Ohm	—	10 Amp DC, 5 Amp AC	—	—	—	376-1055-ND	489.95	343.62	323.40	67C1C0A
				10K Ohm	—		—	—	—	376-1056-ND	489.95	343.62	323.40	67B1C0A
3	16VM	120VAC 60Hz	12VAC 1.5mA	10K Ohm	Direct	10 Amp Resistive	2.50 (63.50)	2.625 (66.68)	2.50 (63.50)	376-1059-ND	146.95	107.54	98.64	16VMB1A0
	16M	120VAC 60Hz	12VAC 1.5mA	26K Ohm	Inverse	10 Amp Resistive	2.00 (50.80)	2.312 (58.72)	1.687 (42.85)	376-1057-ND	111.95	81.93	75.16	16MM1B0
				26K Ohm	Direct					376-1058-ND	111.95	81.93	75.16	16MC1B0

SAFE-PAK® Relays

Amplify Sensor Load-Handling Capabilities

Costly explosion-proof enclosure with their mounting requirements are unnecessary. No purging is required.

SAFE-PAK: Less than 100mA at 9 VDC actuates the unit to control loads to 5A at 120 VAC. Resistive (up to 100,000W) or short-circuiting sensors operate the unit.

Low Sensitivity SAFE-PAK: Sensor closures up to 1000W resistance control resistive loads to 5A at 120VAC.

Latching SAFE-PAK: Momentary actuation, "start-stop" or differential control switching for resistive loads to .3A. Used on any differential control switch for level, flow, pressure or temperature.

Programmable SAFE-PAK: Provide N.O., N.C. or latching output with variable time delays. Designed for use with switches or sensors monitoring flow, pressure, level, etc. Render non-voltage-producing sensors intrinsically safe for operation in potentially hazardous areas. Streamlined housing suited for group-mounting on a common earth-grounded plate for multiple installation.

Fig. 1

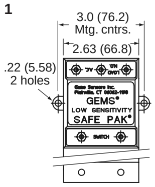


Fig. 2

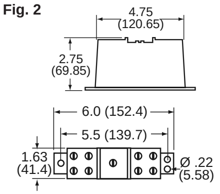
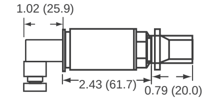


Fig.	Relay Style	Load Voltage	Load Current	Operating Voltage	Switch	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	GEMS Part No.
1	SAFE-PAK	100 to 135VAC	5A	100 to 135VAC	SPST	0°F to +120°F (-17.8°C to +48.9°C)	376-1158-ND	169.95	124.36	114.07	25872
		200 to 250VAC		200 to 250VAC			376-1159-ND	169.95	124.36	114.07	25873
	Low Sensitivity SAFE-PAK	100 to 135VAC	5A	100 to 135VAC	SPST	0°F to +120°F (-17.8°C to +48.9°C)	376-1160-ND	169.95	124.36	114.07	44075
		110 to 130VAC	.5@20/.05@200VAC	110 to 130VAC		-10°F to +140°F (-23.3°C to +60°C)	376-1161-ND	169.95	124.36	114.07	64101
		105 to 125VAC	5A	105 to 125VAC		-40°F to +120°F (-40°C to +48.9°C)	376-1162-ND	132.95	97.29	89.25	144600
	LATCHING SAFE-PAK	105 to 125VAC	0.3A	105 to 125VAC	SPST	+32°F to +120°F (0°C to +48.9°C)	376-1163-ND	217.95	152.88	143.88	41705
2	Programmable SAFE-PAK	25 to 250VAC	2A	95 to 125VAC	Latching	+32°F to +140°F (0°C to +60°C)	376-1164-ND	209.95	147.27	138.60	54820
		0 to 250VAC	.5@20/.05@200VAC				376-1165-ND	209.95	147.27	138.60	54825

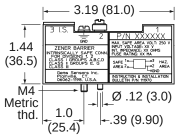
General Purpose Industrial Pressure Transducers - 2200 Series



Features: • Submersible, general purpose and wash down enclosures • High stability achieved by CVD sensing element **Specifications:** • 4-20mA Output • 1/4" NPT Pressure Port • Operating Temperature: -22°F to 260°F (-40°C to 125°C)

Pressure	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
0-100PSIG	376-1156-ND	244.95	171.81	161.70	2200BGG1002A3UA
0-200PSIG	376-1157-ND	244.95	171.81	161.70	2200BGG2002A3UA

Single Channel Zener Barrier Switch - Series 65800



Render Switches or Signal Conditioners Intrinsically Safe

Features: • Intrinsic safety with solid-state reliability • Compact size streamlines installation • Space-saving in multiples • Encapsulated construction is impervious to dust and moisture **Spec.:** • Max. Voltage 30VDC • Max. Current 250mA • Resistance 303 Ohms • Channels - 1

Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
-40°F to +140°F (-40°C to +60°C)	376-1166-ND	96.95	70.96	65.09	113000

OPTREX Dot Matrix Type LCD Modules

Optrex Numbering System

DMC – 50000 N Y H U – S E B 1

1 2 3 4 5 6 7 8 9 10

1. Type of Display: Character Dot Matrix
2. Development Number: Successive Number (3 digits to 5 digits)
3. LCD TYPE: Nil = TN N = STN
4. Background Color: Nil = Neutral Y = Yellow B = Blue K = Dark Blue
5. Operating Temp.: Nil = Normal H = Extended
6. Viewing Direction: Nil = 6:00 U = 12:00 L = 9:00 R = 3:00
7. Display Mode: Nil = Reflective, Transmissive with Backlight S = Transflective T = Transmissive without Backlight
8. Backlight: Nil = Without Backlight E = EL L = LED
9. Backlight Color: Nil = Without Backlight W = White B = Blue Y = Yellow
10. Supplemented Specification: Successive Number (No. 1 to 99)

40x4 Pin Connections

Pin No.	Symbol	Pin No.	Symbol	Pin No.	Symbol
1	DB7	7	DB1	13	Vss
2	DB6	8	DB0	14	Vcc
3	DB5	9	E1	15	E2
4	DB4	10	R/W	16	NC
5	DB3	11	RS	17	K
6	DB2	12	VEE	18	A

Standard Pin Connections

Pin No.	Symbol	Pin No.	Symbol
1	Vss	8	DB1
2	Vcc	9	DB2
3	VEE	10	DB3
4	RS	11	DB4
5	R/W	12	DB5
6	E	13	DB6
7	DB0	14	DB7

FEATURES: • Interface with 8-bit or 4-bit MPU is available • 192 kinds of characters, numerals, symbols and special characters can be displayed by built-in character generator (ROM) • Other preferred characters can be displayed by character generator (RAM) • Various functions of instruction are available by programming: clear display, cursor at home, on/off cursor, blink character, shift display, shift cursor, read/write display data, etc. • Compact and lightweight design • Low power consumption

Inverter Needed	Display Format	Matching Bezel ‡	Character Format	Outline Dimension W x H x D (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Dot Size W x H (mm)	Operating Temp. (°C)	Storage Temp. (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	100	Optrex Part No.
Twisted Nematic (TN) LCD Dot Matrix Modules														
—	16x1	PRD250LPW1-ND	5x8 dots	80 x 36 x 10	64.5 x 13	3.2 x 5.95	.6 x .7	0 to +50	-20 to +70	5	73-1012-ND	10.73	8.00	DMC-16117A
—	16x1	N/A	5x7 CURS	122 x 33 x 11	99 x 13	4.84 x 9.66	.92 x 1.1	0 to +50	-20 to +70	5	73-1013-ND	15.33	11.43	DMC-16128
—	16x1	N/A	5x7 CURS	122 x 33 x 11	99 x 13	4.84 x 9.66	.92 x 1.1	0 to +50	-20 to +70	5	73-1015-ND	15.33	11.43	DMC-16129
—	16x2	PRD250LPW-ND	5x8 dots	80 x 40 x 10.9	59.5 x 16	2.95 x 5.55	.55 x .65	0 to +50	-20 to +70	5	73-1033-ND•	15.33	11.43	DMC-16204
—	16x2	PRD250LPW-ND	5x8 dots	84 x 44 x 11	61 x 16	2.95 x 5.55	.55 x .55	0 to +50	-20 to +70	5	73-1025-ND	15.33	11.43	DMC-16207
—	16x2	PRD250LPW-ND	5x8 dots	84 x 44 x 11	61 x 16	2.95 x 5.55	.55 x .55	-20 to +70	-30 to +80	+5, -7	73-1036-ND	15.77	11.76	DMC-16207H
—	16x2	PRD250LPW-ND	5x8 dots	84 x 44 x 11	61 x 16	2.95 x 5.55	.55 x .55	0 to +50	-20 to +70	5	73-1054-ND	15.33	11.43	DMC-16207U
—	16x2	N/A	5x7 CURS	122 x 44 x 11	99 x 24	4.84 x 9.66	.92 x 1.1	0 to +50	-20 to +70	5	73-1026-ND	20.47	15.27	DMC-16230AAE-DW
—	16x2	N/A	5x7 CURS	122 x 44 x 11	99 x 24	4.84 x 9.66	.92 x 1.1	-20 to +70	-30 to +80	+5, -7	73-1041-ND	19.05	14.21	DMC-16230H
—	16x2	PRD250LPW-ND	5x8 dots	80 x 36 x 11	64.5 x 13.8	2.95 x 4.35	.55 x .5	0 to +50	-20 to +70	5	73-1037-ND	13.79	10.29	DMC-16249B
—	16x2	PRD250LPW-ND	5x8 dots	80 x 36 x 11	64.5 x 13.8	2.95 x 4.35	.55 x .5	0 to +50	-20 to +70	5	73-1039-ND	13.79	10.29	DMC-16249UB
—	16x4	N/A	5x8 dots	87 x 60 x 11	61.8 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1080-ND	28.46	21.23	DMC-16433
—	24x2	PRD360LPW1-ND	5x8 dots	118 x 36 x 11	93.5 x 15.8	3.2 x 5.55	.6 x .65	0 to +50	-20 to +70	5	73-1064-ND	21.90	16.33	DMC-24227
—	40x2	N/A	5x8 dots	182 x 33.5 x 11	152 x 16.5	3.2 x 5.55	.6 x .65	0 to +50	-20 to +70	5	73-1069-ND	35.03	26.13	DMC-40218
Super-Twisted Nematic (STN) LCD Modules														
—	8x2	N/A	5x8 dots	40 x 35.4 x 8.2	30.4 x 13.9	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1106-ND	8.66	6.46	DMC-50448N-E-AE
—	16x2	PRD250LPW-ND	5x8 dots	84 x 44 x 11	61 x 16	2.95 x 5.55	.55 x .65	0 to +50	-20 to +70	5	73-1044-ND	17.52	13.07	DMC-16207N
—	16x2	PRD250LPW-ND	5x8 dots	80 x 36 x 11	64.5 x 13.8	2.95 x 4.35	.55 x .50	0 to +50	-20 to +70	5	73-1038-ND	16.42	12.25	DMC-16249N
—	16x4	N/A	5x8 dots	87 x 60 x 11	61.8 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1083-ND	30.65	22.86	DMC-16433N
—	20x4	N/A	5x8 dots	98 x 60 x 11	76 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1091-ND	35.03	26.13	DMC-20434N
High Contrast Super-Twisted Nematic (STN) LCD Modules														
—	16x2	PRD250LPW-ND	5x8 dots	84 x 44 x 11	61 x 16	2.95 x 5.55	.55 x .65	0 to +50	-20 to +70	5	73-1045-ND	17.52	13.07	DMC-16207N-B
—	20x2	PRD360LPW-ND	5x8 dots	116 x 37 x 11	83 x 18.6	3.2 x 5.55	.6 x .65	0 to +50	-20 to +70	5	73-1061-ND	20.58	15.35	DMC-50218N-B
—	20x4	N/A	5x8 dots	98.5 x 60 x 11	76 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1092-ND	30.65	22.86	DMC-20434N-B
—	24x2	PRD360LPW1-ND	5x8 dots	118 x 36 x 11	93.5 x 15.8	3.2 x 5.55	.6 x .65	0 to +50	-20 to +70	5	73-1066-ND	22.21	16.57	DMC-24227N-B
Film Super-Twisted Nematic (FSTN) LCD Modules														
—	16x2	PRD250LPW-ND	5x7 dots	64.2 x 27.6 x 2.2	60.2 x 16.6	2.95 x 4.85	.48 x .7	0 to +50	-20 to +70	+3, -7	73-1177-ND†	10.59	7.91	DMC-50747NF-AK
Super-Twisted Nematic (STN) LCD Modules With Yellow LED Backlighting														
—	16x1	PRD250LPW1-ND	5x8 dots	80 x 36 x 15	64.5 x 13	3.2 x 5.85	.6 x .7	0 to +50	-20 to +70	5	73-1018-ND	21.02	15.68	DMC-16105NY-LY
—	16x2	PRD250LPW-ND	5x8 dots	84 x 45 x 15.1	61 x 16	2.95 x 5.55	.55 x .65	0 to +50	-20 to +70	5	73-1048-ND	18.08	13.49	DMC-16202NY-LY-ADE-BF
—	16x2	PRD250LPW-ND	5x8 dots	80 x 40 x 16.1	59.5 x 16	2.95 x 5.55	.55 x .65	0 to +50	-20 to +70	5	73-1034-ND•	18.61	13.88	DMC-16204NY-LY
—	16x2	PRD250LPW-ND	5x8 dots	88 x 34 x 16.1	59.5 x 16	2.95 x 5.55	.55 x .65	0 to +50	-20 to +70	5	73-1035-ND	18.61	13.88	DMC-16205NY-LY
—	16x2	N/A	5x7 CURS	122 x 44 x 14.6	99 x 24	4.84 x 9.66	.92 x 1.1	0 to +50	-20 to +70	5	73-1051-ND	25.55	19.06	DMC-16230NY-LY
—	16x2	N/A	5x7 CURS	122 x 44 x 14.6	99 x 24	4.84 x 9.66	.92 x 1.1	0 to +50	-20 to +70	5	73-1053-ND	26.90	20.06	DMC-16230NYU-LY-AZE-WEA
—	20x4	N/A	5x8 dots	98.5 x 61 x 15.6	76 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1094-ND	30.78	22.96	DMC-20481NY-LY-ABE
—	20x4	N/A	5x8 dots	98.5 x 61 x 15.6	76 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1097-ND	32.28	24.08	DMC-20481NYU-LY-ACE-BG
—	40x2	N/A	5x8 dots	182 x 34.5 x 15.1	152.5 x 16.5	3.2 x 5.55	.6 x .65	0 to +50	-20 to +70	5	73-1076-ND	56.93	42.46	DMC-40267NY-LY
High Contrast Super-Twisted Nematic (STN) LCD Modules with Yellow LED Backlighting														
—	16x2	PRD250LPW-ND	5x8 dots	84 x 45 x 15.1	61 x 16	2.95 x 5.55	.55 x .65	0 to +50	-20 to +70	5	73-1047-ND	16.59	12.37	DMC-16202N-LY-AME
—	16x2	PRD250LPW-ND	5x8 dots	84 x 45 x 15.1	61 x 16	2.95 x 5.55	.55 x .65	0 to +50	-20 to +70	5	73-1043-ND	16.59	12.37	DMC-16202NY-LY-AGE
—	16x2	PRD250LPW-ND	5x8 dots	84 x 45 x 15.1	61 x 16	2.95 x 5.55	.55 x .65	-20 to +70	-30 to +80	+5, -7	73-1032-ND	18.08	13.49	DMC-16202NYJ-LY-AKE-BG
—	16x2	N/A	5x7 CURS	122 x 44 x 14.6	99 x 24	4.84 x 9.66	.92 x 1.10	0 to +50	-20 to +70	5	73-1052-ND	25.51	19.03	DMC-16230NY-LY-BQE-DZ
—	16x2	N/A	5x7 CURS	122 x 44 x 14.6	99 x 24	4.84 x 9.66	.92 x 1.10	-20 to +70	-30 to +80	+5, -7	73-1050-ND	28.40	21.18	DMC-16230NYJ-LY-CGE-EB
—	20x2	PRD360LPW-ND	5x8 dots	116 x 37 x 15.7	83 x 18.6	3.20 x 5.55	.60 x .65	0 to +50	-20 to +70	5	73-1057-ND	20.93	15.61	DMC-20261NY-LY-AXE
—	20x2	PRD360LPW-ND	5x8 dots	116 x 37 x 15.7	83 x 18.6	3.20 x 5.55	.60 x .65	-20 to +70	-30 to +80	+5, -7	73-1063-ND	20.93	15.61	DMC-20261NYJ-LY-BCE
—	20x4	N/A	5x8 dots	98.5 x 61 x 15.6	76 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1095-ND	30.78	22.96	DMC-20481NY-LY-AGE
—	24x2	PRD360LPW1-ND	5x8 dots	121.5 x 33.5 x 16.1	93.5 x 15.8	3.2 x 5.55	.6 x .65	0 to +50	-20 to +70	5	73-1024-ND	38.32	28.58	DMC-50149NYU-LY-B
—	40x2	N/A	5x8 dots	182 x 34.5 x 15.1	147.5 x 11.5	3.2 x 5.55	.6 x .65	0 to +50	-20 to +70	5	73-1179-ND	38.84	28.97	DMC-40202NY-LY-AFE
—	40x4	N/A	5x8 dots	190 x 54 x 13.6	147 x 29.5	2.78 x 4.89	.5 x .55	0 to +50	-20 to +70	5	73-1101-ND	83.20	62.06	DMC-40457NY-LY-B
High Contrast Super-Twisted LCD Modules With Blue-Green EL Backlighting (must order inverter)														
289-1028-ND	20x4	N/A	5x8 dots	98 x 60 x 11	76 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1088-ND	42.29	31.54	DMC-20434N-EB
Super-Twisted LCD Modules With White EL Backlighting (must order inverter)														
289-1031-ND	20x4	N/A	5x8 dots	98 x 60 x 11	76 x 25.2	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1093-ND	43.79	32.67	DMC-20434N-SEW
High Contrast Super-Twisted LCD Modules With White EL Backlighting (must order inverter)														
289-1029-ND	16x4	N/A	5x8 dots	87 x 60 x 11	61.8 x 25.5	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5	73-1109-ND	36.13	26.95	DMC-16433N-SEW-B
Inverters For EL Backlighting (Converts 5 VDC to 100 VAC 400Hz)														
Inverter for use with EL Backlit Character Modules…………											289-1031-ND	11.90	—	NDL-204

‡ Bezels can be found under PRD Plastics in the manufacturer's index ***** Chip on glass display, uses FCS2314AK-006 controller

• Pin to Pin spacing = 2.0mm † Chip on glass display, uses SED1233DGB controller

OPTREX TFT Active Matrix Color LCD Modules

Optrex TFT (Thin Film Transistor) Active Matrix LCD Modules are ideal for a wide range of AV (Audio Visual) and Industrial/Office applications.

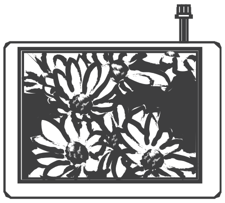
Unlike Passive Matrix LCDs, TFT LCDs are capable of displaying moving video.

Note: Display modules require an external decoder unless noted otherwise.

AV applications include:
- Automotive TV or Game monitors
- GPS
- Automotive PC
- Digital Cameras
- Camcorders
- Mobile TV
- Home Security

Industrial and Office Applications include:
- Computer Peripherals
- Industrial Meters
- Industrial Imaging
- PDAs
- POS (Point of Sale) Devices
- Smart Hand-Held Devices

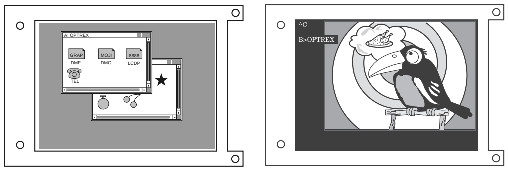
These modules work with one or more of the following input signals:
- NTSC – the US television video standard
- PAL – the European television video standard
- Digital CMOS – PCs and Laptops
- Digital LVDS - PCs and Laptops



Size (in)	Dot Pixels W x H	Input System	On-Board Decoder	Viewing Area (mm) W x H	Dot Pitch (mm) W x H	Power Consumption (W)	Brightness (cd/m2)	CR Ratio	Outline Dim. (mm) W x H x D	Digi-Key Part No.	Price Each 1	100	Optrex Part No.
2.5	480 x 234	NTSC/PAL Analog	No	50.21 x 37.67	0.105 x 0.161	0.83	200	120:1	61.6 x 49.3 x 5.9	73-1213-ND	81.78	56.08	T-51378L025J-FW-P-AA
5	960 x 234	NTSC/PAL Analog	No	102.72 x 74.53	0.107 x 0.319	6	350	150:1	127.4 x 92.8 x 12.9	73-1204-ND	174.31	119.53	T-51380L050J-FW-P-AA
5	960 x 234	NTSC/PAL Analog	Yes	102.72 x 74.53	0.107 x 0.319	6	350	150:1	127.4 x 92.8 x 12.9	73-1205-ND	266.84	182.98	T-51380L050J-FW-P-AB
6.4	960 x 234	NTSC/PAL Analog	No	130.06 x 97.30	0.136 x 0.416	6.5	330	120:1	156.3 x 119.8 x 14.3	73-1201-ND	264.37	197.20	T-51381L064J-FW-P-AA
6.4	960 x 234	NTSC/PAL Analog	Yes	130.06 x 97.30	0.136 x 0.416	6.5	330	120:1	156.3 x 119.8 x 19.2	73-1200-ND	320.66	219.88	T-51381L064J-FW-P-AD
7	1440 x 234	NTSC/PAL Analog	No	154.08 x 87.048	0.107 x 0.327	6	350	150:1	167.1 x 102.0 x 12.0	73-1202-ND	304.50	227.13	T-51383L070J-FW-P-AA
7.9	1440 x 234	NTSC/PAL Analog	No	161.28 x 117.936	0.112 x 0.504	7	300	150:1	191.4 x 144.6 x 11.5	73-1206-ND	380.03	283.46	T-51384L079J-FW-P-AA
10.4	800 x 600	LVDS	No	211.2 x 158.4	0.264 x 0.264	8	450	180:1	243 x 185.1 x 11	73-1217-ND	566.50	422.55	T-51410D104-FW-P-AD

OPTREX Supertwist® LCD Graphic Modules

Color Display: 73-1178-ND



Optrex Numbering System

DMF – 50000 N Y U – S E B 1

1 2 3 4 5 6 7 8 9

FEATURES: • Low voltage drive and low power consumption • Compact, light, and thin • Graphic, Figure, and Character display • STN fluid allows high contrast and wide viewing angle • Large area display like CRT.

APPLICATIONS: • Personal Computer • Musical Instrument • Word Processor • Electronic Typewriter • Copying Machine • Instrument Device • Telecommunication Equipment • POS Terminal • Fish Finder • Oscillograph • Medical Instrument • Other Peripherals

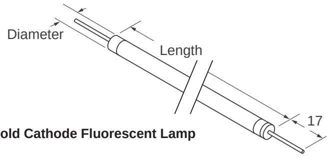
1.	Type of Display:	Full Dot Matrix
2.	Development Number:	Successive Number (3 digits to 5 digits)
3.	LCD TYPE:	Nil = TN N = STN
4.	Background Color:	Nil = Neutral B = Blue C = Color F = FSTN K = Dark Blue W = DSTN Y = Yellow
5.	Viewing Direction:	Nil = 6:00 U = 12:00 L = 9:00 R = 3:00
6.	Display Mode:	Nil = Reflective, Transmissive with Backlight S = Transflective T = Transmissive without Backlight
7.	Backlight:	Nil = Without Backlight E = EL F = CFL L = LED
8.	Backlight Color:	Nil = Without Backlight B = Blue W = White Y = Yellow
9.	Supplemented Specification:	Successive Number (No. 1 to 99)

Controller Needed	Inverter Needed	Dot Pixels W x H	Outline Dim. (mm) W x H x D	Viewing Area (mm) W x H	Dot Size (mm) W x H	Dot Pitch (mm) W x H	Display Type	Digi-Key Part No.	Price Each 1	100	Optrex Part No.
Color Graphic Modules											
Built-in	Built-in	240 x 64	180.0 x 59.6 x 14.0	132.0 x 39.0	.166 x .52	.176 x .53	CFL	73-1210-ND	183.91	137.18	F-51168NCU-FW-AA
SED1353	—	240 x 160	113.0 x 67.5 x 11.3	81.8 x 55.2	.095 x .315	.110 x .330	CFL	73-1209-ND	172.98	129.02	F-51161NCU-FW-AA
Built-in	—	256 x 64	146.2 x 39.3 x 17.0	106.66 x 27.62	.115 x .365	.135 x .385	CFL	73-1208-ND†	193.31	132.56	F-51136NCWHU-FW-AA
SED1353	—	320 x 240	167.1 x 109.0 x 8.0	122.0 x 92.0	.10 x .34	.12 x .36	CFL	73-1215-ND	186.12	138.83	F-51167NCU-FW-AA
SED1353	—	320 x 240	167.1 x 109.0 x 8.0	122.0 x 92.0	.10 x .34	.12 x .36	CFL	73-1214-ND‡	208.01	155.15	F-51167NCU-FW-AB
Monochrome Graphic Modules											
Built-in	—	128 x 64	89.7 x 49.8 x 6.0	66.8 x 35.5	.48 x .48	.50 x .50	LED (Blue/White)	73-1219-ND	31.31	23.35	F-51320GNB-LW-AB
Built-in	—	128 x 64	89.7 x 49.8 x 11.8	66.8 x 35.5	.48 x .48	.50 x .50	LED (Yellow)	73-1220-ND	31.31	23.35	F-51320GNY-LY-AA
Built-in	—	240 x 128	170.0 x 95.0 x 16.7	126.0 x 70.0	.47 x .47	.50 x .50	LED (Yellow/Green)	73-1199-ND	153.27	114.32	DMF-50773NF-SLY
Built-in	73-1176-ND	240 x 64	180 x 65 x 12	132 x 39	.49 x .49	.53 x .53	EL Backlighting	73-1118-ND	104.70	78.11	DMF-5005N-EB
Built-in	—	240 x 64	180 x 65 x 17.6	132 x 39	.49 x .49	.53 x .53	LED Backlighting	73-1157-ND	77.54	57.84	DMF-5005NY-LY-AKE
Built-in	—	240 x 64	180 x 65 x 17.6	132 x 39	.49 x .49	.53 x .53	LED Backlighting	73-1126-ND	105.43	78.64	DMF-5001NYJ-LY-AQE-AZ
Built-in	73-1007-ND	240 x 64	200 x 66 x 23	132 x 39	.49 x .49	.53 x .53	CFL Backlighting	73-1132-ND	124.81	93.09	DMF-5010NBU-FW-BD
Built-in	73-1007-ND	240 x 64	200 x 66 x 23	132 x 39	.49 x .49	.53 x .53	CFL Backlighting	73-1133-ND	127.00	94.73	DMF-5010NF-FW-BE
E-1330BA	289-1024-ND	320 x 240	167.1 x 109 x 11	120 x 90	.33 x .33	.36 x .36	CFL Backlighting	73-1194-ND	104.26	77.77	DMF-50840NF-FW-ABEAU
Inverters for CFL Backlighting (Converts 12 VDC to 900VAC 30 KHz)											
Inverter for use with CFL Backlit Graphic Modules								289-1036-ND	25.76	—	BXA-12565-6M
Inverter for use with CFL Backlit Graphic Modules								289-1027-ND	15.12	—	BXA-24529
Inverters for EL Backlighting (Converts 5 VDC to 100VAC 400 Hz)											
Inverter for use with EL Backlit Graphic Modules								289-1030-ND	12.20	—	NDL-203
Inverter for use with EL Backlit Graphic Modules								289-1031-ND	11.90	—	NDL-204

† Built-in heater for cold temperature. ‡ Wide Angle Film.

JKL COMPONENTS CORPORATION

Cold Cathode Fluorescent Lamps and Inverters



Cold Cathode Fluorescent Lamp

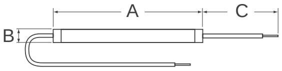
Tri-Phosphor RGB White Lamps

Dia. (mm)	Length (mm)	Start Volt (V)	Lamp Volt (V)	Lamp Curr. (mA)	Intensity (Cd./m2)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
2.0	218	1700	740	5	38,000	289-1107-ND *NEW!*	11.34	10.26	8.64	BF20218-24B
2.0	292	1820	810	5	38,000	289-1108-ND *NEW!*	12.77	11.56	9.73	BF20292-24B
2.2	140	730	340	5	38,000	289-1053-ND	10.29	9.31	7.84	BF22140-24B
2.2	258	1700	720	5	38,000	289-1059-ND	10.29	9.31	7.84	BF22258-25B
2.4	437	1400	835	5	38,000	289-1110-ND *NEW!*	14.47	13.10	11.03	BF24438-24B
2.6	180	1000	400	5	38,000	289-1054-ND	10.29	9.31	7.84	BF26180-24B
2.6	188	1300	525	5	30,000	289-1039-ND	10.29	9.31	7.84	BF26188-20B
2.6	214	1450	620	5	30,000	289-1060-ND	10.29	9.31	7.84	BF26214-20B
2.6	240	1250	505	5	30,000	289-1055-ND	12.76	11.55	9.72	BF26240-24B
2.6	250	1300	525	5	30,000	289-1056-ND	12.76	11.55	9.72	BF26250-24B
2.6	285	1500	725	5	30,000	289-1057-ND	12.76	11.55	9.72	BF26285-20B
2.6	318	1636	676	5	34,000	289-1109-ND *NEW!*	12.77	11.56	9.73	BF26318-20B
3.2	25	400	165	5	19,000	289-1002-ND	10.29	9.31	7.84	BF325-22B
3.2	50	500	195	5	28,000	289-1003-ND	10.29	9.31	7.84	BF350-20B
3.2	75	525	210	5	28,000	289-1058-ND	10.29	9.31	7.84	BF375-20B
3.2	86	540	220	5	28,000	289-1004-ND	10.29	9.31	7.84	BF386-20B
3.2	100	665	270	5	28,000	289-1005-ND	10.29	9.31	7.84	BF3100-20B
3.2	160	850	345	5	28,000	289-1006-ND	10.29	9.31	7.84	BF3160-20B
3.2	216	1100	440	5	28,000	289-1040-ND	10.29	9.31	7.84	BF3216-20B
3.2	228	1150	460	5	28,000	289-1007-ND	10.29	9.31	7.84	BF3228-21B
3.2	250	1200	520	5	28,000	289-1008-ND	10.29	9.31	7.84	BF3250-20B
3.2	300	1350	665	5	28,000	289-1041-ND	12.76	11.55	9.72	BF3300-20B
3.2	360	1500	785	5	28,000	289-1042-ND	12.76	11.55	9.72	BF3360-20B
4.1	183	900	365	5	16,000	289-1043-ND	10.29	9.31	7.84	BF4183-20B
4.1	418	1400	765	5	15,000	289-1061-ND	13.69	12.39	10.44	BF4418-20B
5.6	118	600	305	5	7,000	289-1009-ND	10.29	9.31	7.84	BF5118-20B
5.6	165	800	400	5	7.000	289-1044-ND	10.29	9.31	7.84	BF5165-20B
5.6	200	850	445	5	7,000	289-1010-ND	10.29	9.31	7.84	BF5200-20B
6.5	50	390	170	5	6,500	289-1011-ND	10.29	9.31	7.84	BF650-20B
6.5	100	550	230	5	6,500	289-1012-ND	10.29	9.31	7.84	BF6100-20B
6.5	144	600	245	5	6,500	289-1045-ND	10.29	9.31	7.84	BF6144-20B
6.5	150	600	250	5	6,500	289-1013-ND	10.29	9.31	7.84	BF6150-20B
6.5	165	600	255	5	6,500	289-1046-ND	10.29	9.31	7.84	BF6165-20B
6.5	178	650	270	5	6,500	289-1014-ND	10.29	9.31	7.84	BF6178-20B
6.5	200	680	290	5	6,500	289-1015-ND	10.29	9.31	7.84	BF6200-20B
6.5	225	750	340	5	6,500	289-1016-ND	10.29	9.31	7.84	BF6225-20B
6.5	262	850	350	5	6,500	289-1017-ND	10.29	9.31	7.84	BF6262-20A0

Narrow Spectrum UltraViolet (UV) Lamps

Dia. (mm)	Length (mm)	Start Volts (V)	Operating Volts (V)	Watts @ 5mA	Output uW/cm2@1”	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
3.0	25	350	140	0.70	0.30	289-1018-ND	10.29	9.31	7.84	BF325-UV1
3.0	50	500	195	0.98	0.30	289-1019-ND	10.29	9.31	7.84	BF350-UV1
3.0	100	675	270	1.35	0.25	289-1020-ND	10.29	9.31	7.84	BF3100-UV1
3.0	120	865	280	1.35	0.25	289-1021-ND	10.29	9.31	7.84	BF3120-UV1
3.0	240	950	500	2.50	0.25	289-1022-ND	10.29	9.31	7.84	BF3240-UV1
9.0	59	375	150	0.75	0.15	289-1023-ND	10.29	9.31	7.84	BF959-UV1/3

NEW! Fluorescent Lamp Assembly



Lamp Length A (mm)	Lamp Diameter B (mm)	Lead Length C (mm)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
258	2.2	150	289-1111-ND	19.15	17.33	14.60	BF22258-25B/DK01
100	3.2	150	289-1112-ND	15.44	13.97	11.76	BF3100-20B/DK01
160	3.2	150	289-1113-ND	15.44	13.97	11.76	BF3160-20B/DK01
250	3.2	150	289-1114-ND	17.22	15.58	13.12	BF3250-20B/DK01
418	4.1	150	289-1115-ND	20.54	18.59	15.65	BF4418-20B/DK01

Inverters for CCFL and UV Lamps

Input Volts	Output Volts (V)	Output I (mA)	Inverter Characteristics	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
3.0	650	4.5	Fixed Single Output	289-1062-ND	13.23	11.97	10.08	BXA-302
5.0	650	4.5	Fixed Single Output	289-1047-ND	15.12	13.86	11.97	BXA-502
5.0	700	5.0	Fixed Single Output	289-1024-ND	15.12	13.86	11.97	BXA-501/KIT
5.0	700	5.0	Fixed Single Output	289-1134-ND *NEW!*	15.12	13.86	11.97	BXA-501
6.0	1200	5.0	Fixed Single Output	289-1064-ND	14.95	13.53	11.40	BXA-503
12.0	700	5.5	Fixed Single Output	289-1049-ND	15.12	13.86	11.97	BXA-12553
12.0	800	4.0	Fixed Single Output	289-1050-ND	15.12	13.86	11.97	BXA-12576
12.0	800	4.0	Fixed Single Output	289-1051-ND	15.12	13.86	11.97	BXA-12577
12.0	1200	6.2	Fixed Single Output	289-1065-ND§	14.95	13.53	11.40	BXA-12617C-6M
12.0	850	5.5	Fixed Dual Output	289-1048-ND†	16.17	14.63	12.32	BXA-12529-PS1
12.0	1000	5.5	Fixed Dual Output	289-1025-ND	15.12	13.86	11.97	BXA-12529
12.0	1500	5.0	Fixed Dual Output	289-1026-ND	15.12	13.86	11.97	BXA-12579
24.0	1000	5.5	Fixed Dual Output	289-1027-ND	15.12	13.86	11.97	BXA-24529
12.0	1000	3.0	Dimming Single Output	289-1116-ND *NEW!*	18.94	17.14	14.44	BXA-12592-3M
12.0	1000	5.0	Dimming Single Output	289-1117-ND *NEW!*	13.23	11.97	10.08	BXA-12594-5M
12.0	1000	6.0	Dimming Single Output	289-1035-ND	24.72	22.25	19.78	BXA-12564-6M
12.0	1000	6.0	Dimming Single Output	289-1034-ND	27.72	24.95	22.18	BXA-12562-6M
12.0	1000	6.0	Dimming Single Output	289-1036-ND	25.76	23.19	20.61	BXA-12565-6M
12.0	1200	5.0	Dimming Single Output	289-1118-ND *NEW!*	27.05	24.48	20.61	BXA-12598-5M
12.0	1000	7.0	Dimming Dual Output	289-1120-ND *NEW!*	37.46	33.90	28.55	BXA-12613-7M
12.0	1200	6.0	Dimming Dual Output	289-1063-ND	29.32	26.53	22.34	BXA-12549-6M
12.0	1800	7.0	Dimming Dual Output	289-1119-ND *NEW!*	61.36	55.52	46.76	BXA-12610-7M
Accessories								
Input Connector Assembly for BXA-12579				289-1037-ND	2.00	—	—	BXC-10605
Output Connector Assembly for BXA-12579				289-1038-ND	2.50	—	—	BXC-10569
Output Connector Assembly for BXA-12553 and BXA-501				289-1052-ND	2.00	—	—	BXC-10566
Input Connector for BXA-12549-6M				289-1066-ND	2.63	2.38	2.00	BXC-10550
Output Connector for BXA-12549-6M				289-1067-ND	2.63	2.38	2.00	BXC-10655
Input Connector for BXA-12617C-6M				289-1068-ND	2.63	2.38	2.00	BXC-10580
Ouput Connector for BXA-12617C-6M, BXA-12592-3M, BXA-12598-5M, BXA-12610-7M and BXA-12613-7M				289-1069-ND	2.63	2.38	2.00	BXC-10643
Input Connector for BXA-503				289-1070-ND	2.63	2.38	2.00	BXC-10574
Ouput Connector for BXA-503				289-1071-ND	2.63	2.38	2.00	BXC-10585
Input Connector for BXA-12592-3M, BXA-12598-5M and BXA-12594-5M				289-1121-ND *NEW!*	2.90	2.63	2.21	BXC-10549
Output Connector for BXA-12594-5M				289-1123-ND *NEW!*	2.63	2.38	2.00	BXC-10689
Input Connector for BXA-12610-7M and BXA-12613-7M				289-1124-ND *NEW!*	2.90	2.63	2.21	BXC-10630
End Cap for 3MM Fluorescent Lamp				289-1072-ND	.53	.48	.40	BF3/RC
End Cap for 2.2mm & 2.4mm Fluorescent Lamp				289-1133-ND *NEW!*	.53	.48	.40	BF2.4/RC

† Potted inverter § See JST below for Mating Connector

Inverters for Electroluminescent (EL) Backlighting

Input Voltage Range (dc)	EL Element Area (cm^2)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
3.0 - 5.5	10 - 19	289-1028-ND	12.20	10.98	9.76	NDL-201
3.0 - 5.5	19 - 38	289-1029-ND	12.20	10.98	9.76	NDL-202
3.0 - 5.5	20 - 30	289-1131-ND *NEW!*	11.76	10.64	8.96	NDL-102
3.0 - 5.5	20 - 60	289-1132-ND* *NEW!*	13.19	11.94	10.05	NDL-104LP
3.0 - 5.5	25 - 40	289-1130-ND *NEW!*	11.76	10.64	8.96	NDL-104
3.0 - 5.5	25 - 43	289-1030-ND	12.20	10.98	9.76	NDL-203
3.0 - 5.5	40 - 80	289-1129-ND *NEW!*	11.76	10.64	8.96	NDL-106
3.0 - 5.5	40 - 100	289-1128-ND *NEW!*	11.76	10.64	8.96	NDL-206
3.0 - 5.5	41 - 70	289-1031-ND	11.90	10.71	9.52	NDL-204
3.0 - 5.5	50 - 83	289-1032-ND	11.90	10.71	9.52	NDL-205
3.0 - 5.5	60 - 140	289-1127-ND *NEW!*	11.76	10.64	8.96	NDL-208
3.0 - 5.5	70 - 100	289-1126-ND *NEW!*	11.76	10.64	8.96	NDL-210
3.0 - 5.5	80 - 120	289-1125-ND *NEW!*	11.76	10.64	8.96	NDL-212
3.0 - 5.5	100 - 170	289-1033-ND	11.20	10.08	8.96	NDL-217

* Low Profile

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel Pricing	JST Part No.
2-Pos., 8mm, Disconnectable Crimp Style BH Connector	455-1123-ND	1.15	9.58	38.30	—	BHR-03VS-1
22-28 AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1124-1-ND*	—	3.25	14.34	60.00/4,000	SBH-001T-P0.5
Crimp Tool with Die for 22-28 AWG Contacts	455-1125-ND	411.48 Each			—	YC-670R

* For Tape and Reel part number change -1-ND to -2-ND

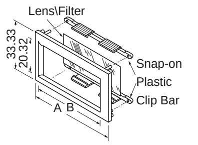
PRD Plastics Bezels

• Bezel material is polystyrene plastic • Recommended panel thickness for mounting snap-fit bezel is 8.13mm to 3.18mm

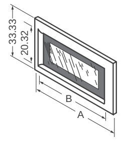
Digi-Key Part No.	Dimensions (mm) A	 B	Panel Cut-Out For Snap Fit Bezel Height	 Width
PRD180M-ND	58.74	45.72	26.99	52.39
PRD250M-ND	76.20	63.50	26.99	69.85
PRD360M-ND†	104.78	91.44	26.99	98.43

† PRD360B-ND has 4 snap-on plastic clip bars

Snap-Fit Bezel
(Lenses must be ordered separately.)



Lo-Profile Polycarbonate/ABS with Non-Removable Lens
(requires adhesive strips)



Description	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
Snap Fit Bezels (Lenses Must Be Ordered Separately)					
45.72mm Wide Bezel Black Plastic	PRD180B-ND	1.62	1.35	1.08	6101010
63.50mm Wide Bezel Black Plastic	PRD250B-ND	1.98	1.65	1.32	6102010
91.44mm Wide Bezel Black Plastic	PRD360B-ND	2.30	1.92	1.54	6103010
For Use With LCDs					
Clear Lens for 45.72mm Bezel	PRD180C-ND	1.44	1.20	.96	6201010
Clear Lens for 63.50mm Bezel	PRD250C-ND	1.62	1.35	1.08	6202010
Clear Lens for 91.44mm Bezel	PRD360C-ND	1.80	1.50	1.20	6203010
For Use With LEDs					
Smoke Lens for 45.72mm Bezel	PRD180S-ND	1.44	1.20	.96	6201020
Smoke Lens for 63.50mm Bezel	PRD250S-ND	1.62	1.35	1.08	6202020
Smoke Lens for 91.44mm Bezel	PRD360S-ND	1.80	1.50	1.20	6203020
Red Lens for 45.72mm Bezel	PRD180R-ND	1.44	1.20	.96	6201030
Red Lens for 63.50mm Bezel	PRD250R-ND	1.62	1.35	1.08	6202030
Red Lens for 91.44mm Bezel	PRD360R-ND	1.80	1.50	1.20	6203030
Green Lens for 45.72mm Bezel	PRD180G-ND	1.44	1.20	.96	6201040
Green Lens for 63.50mm Bezel	PRD250G-ND	1.62	1.35	1.08	6202040
Green Lens for 91.44mm Bezel	PRD360G-ND	1.80	1.50	1.20	6203040
Masked Lenses					
25.40mm x 22.23mm Window for 45.72mm	PRD180W-ND	1.44	1.20	.96	6201050
60.96mm x 16.00mm Window for 63.50mm	PRD250W-ND	1.62	1.35	1.08	6202050
65.41mm x 13.79mm Window for 63.50mm	PRD250W1-ND	1.62	1.35	1.08	6202060
83.01mm x 18.59mm Window for 91.44mm	PRD360W-ND	1.80	1.50	1.20	6203050
93.35mm x 15.80mm Window for 91.44mm	PRD360W1-ND	1.80	1.50	1.20	6203060

Description	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
Lo-Profile Polycarbonate/ABS					
*Lo-Profile For LCDs **					
45.72mm Bezel with Clear Lens	PRD180LP-ND	3.06	2.55	2.04	6301010
45.72mm Bezel and Clear Lens with 25.40mm x 22.23mm Window	PRD180LPW-ND	3.06	2.55	2.04	6301020
63.50mm Bezel with Clear Lens	PRD250LP-ND	3.60	3.00	2.40	6302010
63.50mm Bezel with Clear Lens with 60.96mm x 16.00mm Window	PRD250LPW-ND	3.60	3.00	2.40	6302020
63.50mm Bezel with Clear Lens with 65.41mm x 13.79mm Window	PRD250LPW1-ND	3.60	3.00	2.40	6302030
91.44mm Bezel with Clear Lens	PRD360LP-ND	4.10	3.42	2.74	6303010
91.44mm Bezel with Clear Lens with 83.01mm x 18.59mm Window	PRD360LPW-ND	4.10	3.42	2.74	6303020
91.44mm Bezel with Clear Lens with 93.35mm x 15.80mm Window	PRD360LPW1-ND	4.10	3.42	2.74	6303030
*Lo-Profile For LEDs **					
45.72mm Bezel with Smoke Lens	PRD180LPS-ND	3.06	2.55	2.04	6301040
45.72mm Bezel with Red Lens	PRD180LPR-ND	3.06	2.55	2.04	6301050
45.72mm Bezel with Green Lens	PRD180LPG-ND	3.06	2.55	2.04	6301060
63.50mm Bezel with Smoke Lens	PRD250LPS-ND	3.60	3.00	2.40	6302040
63.50mm Bezel with Red Lens	PRD250LPR-ND	3.60	3.00	2.40	6302050
63.50mm Bezel with Green Lens	PRD250LPG-ND	3.60	3.00	2.40	6302060
91.44mm Bezel with Smoke Lens	PRD360LPS-ND	4.10	3.42	2.74	6303040
91.44mm Bezel with Red Lens	PRD360LPR-ND	4.10	3.42	2.74	6303050
91.44mm Bezel with Green Lens	PRD360LPG-ND	4.10	3.42	2.74	6303060
Accessories					
Adhesive Strips 2/Pad	PRDAS-ND	.30	.29	.27	6000010

* Requires Adhesive Strips (recommend 2 pads for the 91.44mm Bezel)

Noritake Vacuum Fluorescent Display Modules

VFD OVER LCD ADVANTAGES: • Higher Brightness • Wider Viewing Angle • Wider Temperature Range
FEATURES: • LCD compatible interface • Same mounting locations as LCD • +5V single power supply • Power save mode (display off) • 4 level brightness control (by code) • 8-bit or 4-bit interface • Wide operating temperature range • 8 user definable fonts • Power consumption similar to LCD with LED backlight • 5mm or 9mm character height • Color: Blue-Green

Pin Connections

Pin No.	Symbol	Pin No.	Symbol
1	Vss	8	DB1
2	Vcc	9	DB2
3	NC	10	DB3
4	RS	11	DB4
5	RW (WR)	12	DB5
6	E (RD)	13	DB6
7	DB0	14	DB7

Display Format	Character Format	Outline Dim. W x H x D (mm)	Viewing Area W x H (mm)	Char. Size W x H (mm)	Dot Size W x H (mm)	Operating Temp. (°C)	Storage Temp3. (°C)	Supply Volt. (V)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
16 x 2	5 x 7 Dots	80 x 36 x 13.2	51.36 x 11.4	2.46 x 4.76	.38 x .56	-40 to +85	-50 to +85	5	286-1019-ND	54.20	50.14	40.65	CU16025ECPB-W6J
16 x 2	5 x 8 Dots	122 x 44 x 20.2	82.70 x 19.0	3.85 x 8.0	.53 x .89	-40 to +85	-50 to +85	5	286-1017-ND	92.00	85.10	69.00	CU16029ECPB-W1J
20 x 2	5 x 7 CURS	116 x 37 x 16	70.8 x 11.5	2.4 x 5.4	.4 x .5	-40 to +85	-50 to +85	5	286-1005-ND	58.80	54.39	44.10	CU20025ECPB-W1J
20 x 2	5 x 7 Dots	146 x 43 x 19	102.6 x 18.8	3.8 x 8.0	.6 x .975	-40 to +85	-50 to +85	5	286-1028-ND	95.80	88.62	71.85	CU20029ECPB-W1J
20 x 4	5 x 7 Dots	98 x 60 x 17	70.8 x 20.9	2.4 x 4.7	.4 x .5	-40 to +85	-50 to +85	5	286-1020-ND	91.40	84.55	68.55	CU20045SCPB-W5J
20 x 4	5 x 8 Dots	146 x 62.5 x 23	99.6 x 37.6	3.65 x 8.8	.57 x .84	-40 to +85	-50 to +85	5	286-1018-ND	142.00	131.35	106.50	CU20049SCPB-W2J
40 x 2	5 x 7 CURS	182 x 33.5 x 20.5	138.8 x 11.5	2.3 x 4.7	.38 x .5	-40 to +85	-50 to +85	5	286-1009-ND	92.20	85.29	69.15	CU40025SCPB-U1J
40 x 2	5 x 7 Dots	182 x 33.5 x 20.5	138.8 x 11.5	2.3 x 4.7	.38 x .5	-40 to +85	-50 to +85	5	286-1021-ND	92.20	85.29	69.15	CU40025SCPB-W6J
24 x 2	5 x 7 Dots	125 x 36 x 20.74	85.2 x 11.5	2.4 x 4.7	.4 x .5	-40 to +85	-50 to +85	5	286-1029-ND	68.00	62.90	51.00	CU24025ECPB-W1J
40 x 4	5 x 7 Dots	190 x 54 x 21	137.35 x 23.16	2.07 x 4.89	.29 x .48	-40 to +85	-50 to +85	5	286-1039-ND	204.00	188.70	153.00	CU40045SCPB-W1J

Graphics Vacuum Fluorescent Display Modules

GRAPHICS SOFTWARE DEVELOPMENT KIT:

Demonstrate Your Application from Your PC - Easily create text, boxes, lines and freehand drawings: • Load the Noritake Software onto your PC • Connect the graphics display to the interface card • Connect the power supply to the interface board • Connect the interface card to your parallel port

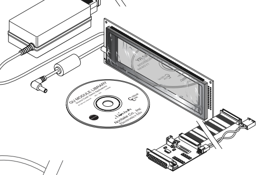
Using the Noritake software on your PC: • Download BMP files and illustrate them on the graphics display • Enter text • Create boxes, lines and freehand drawings easily

Noritake Development Kit Includes: • Noritake Graphics Development Software • Power Supply • Interface board from display to PC parallel port (parallel port cable not included - recommend AE1012-ND)

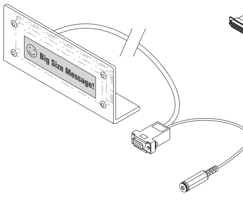
GU3000/GU7000 DEVELOPMENT KIT:

Kit Includes: • GU3000 or GU7000 VFD module with stand • DC power supply (5V/2A, regulated) • Cable harness for both power supply and signal • CD-ROM for software and related documentation • Notice for cautious handling VFD modules • Warranty paper package list

GUD-ND



GU3000/GU7000


Big Size Message!

Storage Temperature: -40 to +85 °C
Windows is a registered trademark of Microsoft Corp.

Number Of Dots	No. of Char.	Dot Pitch (mm)	Display Area W x H (mm)	PCB Size W x H (mm)	Power (v/mA) (all dots on)	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
128 x 32	4 x 21	0.65 x 0.65	83.05 x 20.65	130 x 38.5	5.0/450	-40 to +85	286-1022-ND	128.20	118.59	96.15	GU128X32-800A
128 x 32	4 x 21	0.65 x 0.65	83.05 x 20.65	130 x 38.5	5.0/450	-40 to +85	286-1011-ND	128.20	118.59	96.15	GU128X32-800
128 x 64	8 x 21	0.65 x 0.65	83.05 x 41.45	140 x 68	5.0/750	-40 to +85	286-1023-ND	159.60	147.63	119.70	GU128X64-800A
160 x 16	2 x 26	0.65 x 0.95	103.85 x 15	154 x 39	5.0/400	-40 to +85	286-1025-ND	142.80	132.09	107.10	GU160X16-800A
160 x 32	4 x 26	0.635 x 0.635	101.45 x 20.17	154 x 45	5.0/550	-40 to +85	286-1026-ND	149.40	138.20	112.05	GU160X32-800A
192 x 16	2 x 32	0.75 x 0.75	143.8 x 11.8	200 x 33.5	5.0/450	-40 to +85	286-1024-ND	153.40	141.90	115.05	GU192X16-800A
256 x 32	4 x 42	0.65 x 0.65	166.25 x 20.65	220 x 50	5.0/750	-40 to +85	286-1027-ND	163.80	151.52	122.85	GU256X32-800A
256 x 32	4 x 42	0.65 x 0.65	166.25 x 20.65	220 x 50	5.0/650	-40 to +85	286-1013-ND	163.80	151.52	122.85	GU256X32-800
256 x 64	8 x 42	0.65 x 0.65	166.3 x 41.50	222 x 78	5.0/2000	-20 to +70	286-1010-ND	300.40	277.87	225.30	GU256X64-372
256 x 64	8 x 42	0.65 x 0.65	166.25 x 41.45	230 x 78	5.0/1500	-40 to +85	286-1040-ND	238.00	220.15	178.50	GU256X64-900A
256 x 64	16 x 32*	0.45 x 0.45	115 x 28.65	159 x 50	5.0/1110	-40 to +85	286-1043-ND *NEW!*	202.00	186.85	151.50	GU256X64D-3900
256 x 64	16 x 32*	0.55 x 0.55	140.65 x 35	188 x 62	5.0/1500	-40 to +70	286-1044-ND *NEW!*	250.00	231.25	187.50	GU256X64E-3900
256 x 64	16 x 32*	0.65 x 0.65	166 x 41.4	226 x 70	24.0/370	-40 to +70	286-1045-ND *NEW!*	286.00	264.55	214.50	GU256X64F-3900
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 to +85	286-1030-ND	59.80	55.32	44.85	GU112X16G-7000
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 to +85	286-1031-ND	57.00	52.73	42.75	GU112X16G-7002
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 to +85	286-1032-ND	54.20	50.14	40.65	GU112X16G-7003
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 to +85	286-1033-ND	64.80	59.94	48.60	GU140X16G-7000
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 to +85	286-1034-ND	61.80	57.17	46.35	GU140X16G-7002
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 to +85	286-1035-ND	58.80	54.39	44.10	GU140X16G-7003
140 x 32	4 x 20	0.5 x 0.725	69.85 x 21.61	90 x 60	5.0/400	-40 to +85	286-1036-ND	100.60	93.06	75.45	GU140X32F-7000
140 x 32	4 x 20	0.5 x 0.68	69.85 x 21.61	90 x 60	5.0/400	-40 to +85	286-1037-ND	96.00	88.80	72.00	GU140X32F-7002
140 x 32	4 x 20	0.5 x 0.68	69.85 x 21.61	90 x 60	5.0/400	-40 to +85	286-1038-ND	91.40	84.55	68.55	GU140X32F-7003
Graphics Development Kit Without Display							286-1015-ND	200.00	185.00	150.00	GUD-ND
Graphics Development Kit for 3000 Series							286-1041-ND *NEW!*	288.72	267.07	216.54	GUD3000
Graphics Development Kit for 7000 Series							286-1042-ND *NEW!*	175.26	162.12	131.45	GUD7000
Graphics Software On CD-ROM							286-1016-ND	25.00	23.13	18.75	GUCD-1.0

* Also available in 6 x 8 and 8 x 16 depending on font size.

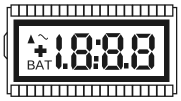
Varitronix Limited

LCDs

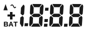
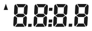
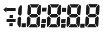
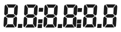
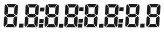
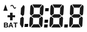
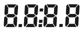
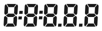
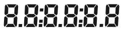
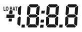
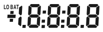
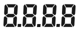
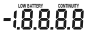
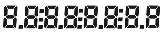
Reflective and Transflective

(Transflective Denoted by “FC” in Varitronix Part No.)

Features: • Long Life/High Reliability • Excellent Optical Quality • High Contrast Ratio • Wide Viewing Angle • Large Useful Viewing Area • Fast Response • Low Power Consumption • Data Sheet Included



Electrical/Optical Char.	Static	HV†	Units
Oper. Temperature Range	-10°–+60°	-10°–+60°	°C
Operational Voltage, RMS	3.0	3.9 - 4.7	V-RMS
Drive Frequency	30-300	60-300	Hz
Current Consumption	15	15	nA/mm^2
Turn-On Time	120	80	ms
Turn-Off Time	100	80	ms

Format	Digit Size (mm)	No. Of Digits	Type (mm)	Conn. No. Of Pins	Dual Row Spacing (mm)	Driver ICs (Not Included) (Applies to both P/N)	LED Black-light	Matching Bezel ‡	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
	12.70	2	2.54 Dip	18	33.02	4543B(2)	—	PRD180LPW-ND	153-1003-ND	4.30	3.98	3.57	VI-201-DP-RC-S
							—	PRD180LPW-ND	153-1002-ND*	4.50	4.17	3.74	VI-201-DP-FC-S
	12.70	3 1/2	2.54 Dip	40	33.02	4543B(4)	—	PRD180LP-ND	153-1005-ND	5.70	5.28	4.74	VI-322-DP-RC-S
							1	PRD180LP-ND	153-1004-ND*	6.80	6.29	5.65	VI-322-DP-FC-S
	12.70	4	2.54 Dip	40	33.02	4543B(4)	—	PRD180LP-ND	153-1007-ND	5.70	5.28	4.74	VI-422-DP-RC-S
							1	PRD180LP-ND	153-1006-ND*	6.80	6.29	5.65	VI-422-DP-FC-S
	10.16	4 1/2	2.54 Dip	40	33.02	4543B(5)	—	PRD180LP-ND	153-1009-ND	5.70	5.28	4.74	VI-502-DP-RC-S
							1	PRD180LP-ND	153-1008-ND*	6.80	6.29	5.65	VI-502-DP-FC-S
	12.70	6	2.54 Dip	50	33.02	4543B(6)	—	PRD250LP-ND	153-1011-ND	9.30	8.61	7.72	VI-602-DP-RC-S
							2	PRD250LP-ND	153-1010-ND*	11.30	10.46	9.38	VI-602-DP-FC-S
	12.70	8	2.54 Dip	68	33.02	4543B(8)	—	PRD360LP-ND	153-1013-ND	13.20	12.21	10.96	VI-804-DP-RC-S
							3	PRD360LP-ND	153-1012-ND*	15.10	13.97	12.54	VI-804-DP-FC-S
	17.78	3 1/2	2.54 Dip	40	40.64	4543B(4)	—	N/A	153-1015-ND	10.50	9.72	8.72	VI-319-DP-RC-S
							2	N/A	153-1014-ND*	14.30	13.23	11.87	VI-319-DP-FC-S
	17.78	4	2.54 Dip	40	40.64	4543B(4)	—	N/A	153-1017-ND	11.80	10.92	9.80	VI-415-DP-RC-S
							2	N/A	153-1016-ND*	14.30	13.23	11.87	VI-415-DP-FC-S
	10.16	5	2.54 Dip	40	33.02	4543B(5)	—	PRD180LP-ND	153-1019-ND	5.70	5.28	4.74	VI-508-DP-RC-S
							2	PRD180LP-ND	153-1018-ND*	6.80	6.29	5.65	VI-508-DP-FC-S
	17.78	6	2.54 Dip	50	40.64	4543B(6)	—	N/A	153-1021-ND	15.70	14.53	13.04	VI-607-DP-RC-S
							3	N/A	153-1020-ND*	19.80	18.32	16.44	VI-607-DP-FC-S
	12.70	3 1/2	2.54 Dip	40	33.02	4543B(4)	—	PRD180LP-ND	153-1023-ND	5.70	5.28	4.74	VI-302-DP-RC-S
							1	PRD180LP-ND	153-1022-ND*	6.80	6.29	5.65	VI-302-DP-FC-S
	10.16	4 1/2	2.54 Dip	40	33.02	4543B(5)	—	PRD180LP-ND	153-1025-ND	5.70	5.28	4.74	VI-509-DP-RC-S
							1	PRD180LP-ND	153-1024-ND*	6.80	6.29	5.65	VI-509-DP-FC-S
	12.70	4	2.54 Dip	20	33.02	—	—	PRD180LP-ND	153-1046-ND†	6.40	5.92	5.32	VIM-404-DP-RC-S-H
							2	PRD180LP-ND	153-1047-ND†*	6.80	6.29	5.65	VIM-404-DP-FC-S-HV
	10.16	4 1/2	2.54 Dip	15	33.02	ICL7129A	—	PRD180LP-ND	153-1054-ND†	5.90	5.46	4.90	VIM-503-DP-RC-S-HV
							2	PRD180LP-ND	153-1055-ND†*	6.80	6.29	5.65	VIM-503-DP-FC-S-HV
	12.70	8	2.54 Dip	42	33.02	—	—	PRD360LP-ND	153-1056-ND†	11.70	10.83	9.72	VIM-808-DP-RC-S-HV
							3	PRD360LP-ND	153-1057-ND†*	17.00	15.73	14.11	VIM-808-DP-FC-S-HV

‡ Bezels can be found under PRD Plastics in the manufacture index. † Multiplexed Display * Transflective

Backlight For Transflective LCDs

LED Backlight	Overall Size (mm) L x W x H	Active Size (mm) LE x WE	Forward Current mA at 4.1V Typ.	Max.	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
1	565 x 19.5 x 3.5	49 x 12	70	140	153-1026-ND	7.30	6.76	6.06	LED4-16264
2	75 x 26.6 x 3.8	60 x 22	135	270	153-1027-ND	11.20	10.36	9.30	LED4-20464B
3	94 x 24 x 4	84 x 19	180	360	153-1028-ND	9.50	8.79	7.89	LED4-20265

LCD Modules

Features: Character Format: 5 x 8 dots

All the LCD’s listed use a SAMSUNG controller P/N KS0066

Display Format	Matching Bezel ‡	Pad Layout	Outline Dim. (mm) W x H x D	Display Area Dim. (mm) W x H	Character Size W x H (mm)	Dot Size (mm) W x H	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
Standard LCD														
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 11	64.5 x 13.8	3.15 x 6.30	.55 x .70	-5° to +50°	-20° to +60°	5	153-1077-ND	13.10	12.12	10.88	MDL-16166-SS-LV
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 10	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5° to +50°	-20° to +60°	5	153-1078-ND	15.40	14.25	12.79	MDL-16265-SS-LV
Supertwist LCD Module														
8 x 1	PRD250LPW-ND	Bottom	84 x 44 x 11	61.0 x 15.8	6.45 x 10.75	1.25 x 1.30	-5° to +50°	-20° to +60°	5	153-1080-ND	18.50	17.12	15.36	MDLS-81809-SS-LV-G
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 11	64.5 x 13.8	3.15 x 6.30	.55 x .70	-5° to +50°	-20° to +60°	5	153-1081-ND	13.50	12.49	11.21	MDLS-16166-SS-LV-G
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 10	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5° to +50°	-20° to +60°	5	153-1082-ND	16.10	14.90	13.37	MDLS-16265-SS-LV-G
16 x 4	N/A	Top	87 x 60 x 10	61.8 x 25.2	2.95 x 4.75	.55 x .55	-5° to +50°	-20° to +60°	5	153-1083-ND	36.80	34.04	30.55	MDLS-16465-SS-LV-G
20 x 1	N/A	L. Side	182 x 33.5 x 11	154 x 15.3	6.7 x 11.50	1.30 x 1.30	-5° to +50°	-20° to +60°	5	153-1084-ND	39.70	36.73	32.96	MDLS-20189-SS-LV-G
20 x 2	PRD360LPW-ND	L. Side	116 x 37 x 11	83.0 x 18.6	3.2 x 5.55	.60 x .65	-5° to +50°	-20° to +60°	5	153-1085-ND	24.50	22.67	20.34	MDLS-20265-SS-LV-G
20 x 4	N/A	Top	98 x 60 x 12	76.0 x 25.2	2.9 x 4.7	.50 x .50	-5° to +50°	-20° to +60°	5	153-1086-ND	35.60	32.93	29.55	MDLS-20464-SS-LV-G
24 x 2	PRD360LPW1-ND	L. Side	118 x 36 x 10	93.5 x 15.8	3.2 x 5.15	.60 x .60	-5° to +50°	-20° to +60°	5	153-1087-ND	26.30	24.33	21.83	MDLS-24265-SS-LV-G
40 x 2	N/A	L. Side	182 x 33.5 x 11	154.0 x 15.8	3.15 x 5.50	.55 x .60	-5° to +50°	-20° to +60°	5	153-1088-ND	42.70	39.50	35.45	MDLS-40266-SS-LV-G
40 x 4	N/A	L. Side	196 x 56 x 11	154.4 x 27.6	3.15 x 5.50	.55 x .60	-10° to +60°	-20° to +70°	+5/-5	153-1089-ND	76.70	70.95	63.67	MDLS-40466-SS-G-HV
Supertwist LCD Module with LED Backlighting														
8 x 1	PRD250LPW-ND	Bottom	84 x 44 x 15	61.0 x 15.8	6.45 x 10.75	1.25 x 1.30	-5° to +50°	-20° to +60°	5	153-1090-ND*	25.90	23.96	21.50	MDLS-81809-SS-LV-G-LED-04-G
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 14	64.5 x 13.8	3.15 x 6.30	.55 x .70	-5° to +50°	-20° to +60°	5	153-1091-ND*	18.40	17.02	15.28	MDLS-16166-SS-LV-G-LED-04-G
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 14	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5° to +50°	-20° to +60°	5	153-1092-ND	21.60	19.98	17.93	MDLS-16265-SS-LV-G-LED-04-G-14
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 14	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5° to +50°	-20° to +60°	5	153-1093-ND†	21.60	19.98	17.93	MDLS-16265-SS-LV-G-LED-04-G-16
16 x 4	N/A	Top	87 x 60 x 13	61.8 x 25.2	2.95 x 4.75	.55 x .55	-5° to +50°	-20° to +60°	5	153-1094-ND*	43.50	40.24	36.11	MDLS-16465-SS-LV-G-LED-04-G
20 x 1	N/A	L. Side	182 x 33.5 x 14.5	154 x 15.3	6.7 x 11.50	1.30 x 1.30	-5° to +50°	-20° to +60°	5	153-1095-ND*	51.80	47.92	43.00	MDLS-20189-SS-LV-G-LED-04-G
20 x 2	PRD360LPW-ND	L. Side	116 x 37 x 14	83.0 x 18.6	3.2 x 5.55	.60 x .65	-5° to +50°	-20° to +60°	5	153-1096-ND*	31.30	28.96	25.98	MDLS-20265-SS-LV-G-LED-04-G
20 x 4	N/A	Top	98 x 60 x 14	76.0 x 25.2	2.9 x 4.7	.50 x .50	-5° to +50°	-20° to +60°	5	153-1097-ND*	43.50	40.24	36.11	MDLS-20464-SS-LV-G-LED-04-G
24 x 2	PRD360LPW1-ND	L. Side	118 x 36 x 13.4	93.5 x 15.8	3.2 x 5.15	.60 x .60	-5° to +50°	-20° to +60°	5	153-1098-ND*	35.50	32.84	29.47	MDLS-24265-SS-LV-G-LED-04-G
40 x 2	N/A	L. Side	182 x 33.5 x 14	154.0 x 15.8	3.15 x 5.50	.55 x .60	-5° to +50°	-20° to +60°	5	153-1099-ND	54.70	50.60	45.41	MDLS-40266-SS-LV-G-LED-04-G
40 x 4	N/A	L. Side	196 x 56 x 14	154.4 x 27.6	3.15 x 6.30	.55 x .60	-10° to +60°	-20° to +70°	+5/-5	153-1100-ND	90.50	83.72	75.12	MDLS-40466-SS-G-HV-LED-04-G

* The LED chips are distributed over the whole lit area, bonded in a pattern which gives the most uniform illumination. Power connection is made by two solder holes, marked "A" for +5V and "K" for Ground. ‡ Bezels can be found under PRD Plastics in the manufacture index. †16 Pin Version

Chip on Glass (Pinned Version)

Display Format	STN Mode	Character Format	Outline Dim. (mm) W x H x D	Display Area Dim. (mm) W x H	Character Size (mm) W x H	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
Transflective Polarizer													
16 x 2	Green	5 x 8 dots	66 x 27.7 x 2.8	66 x 15.7	2.95 x 5.15	-10° to + 60°	-20° to + 70°	5	153-1073-ND	15.00	13.88	12.45	COGS-16265S-DP-FC-LV-G
16 x 2	Silver	5 x 8 dots	66 x 27.7 x 2.8	66 x 15.7	2.95 x 5.15	-10° to + 60°	-20° to + 70°	5	153-1074-ND	15.00	13.88	12.45	COGS-16265S-DP-FC-LV-S
Reflective Polarizer													
16 x 2	Green	5 x 8 dots	66 x 27.7 x 2.8	66 x 15.7	2.95 x 5.15	-10° to + 60°	-20° to + 70°	5	153-1075-ND	15.00	13.88	12.45	COGS-16265S-DP-RC-LV-G
16 x 2	Silver	5 x 8 dots	66 x 27.7 x 2.8	66 x 15.7	2.95 x 5.15	-10° to + 60°	-20° to + 70°	5	153-1076-ND	15.00	13.88	12.45	COGS-16265S-DP-RC-LV-S

Monochrome Graphic Modules

Controller Needed	Dots Pixels W x H	Outline Dim. (mm) W x H x D	Viewing Area (mm) W x H	Dot Size (mm) W x H	Dot Pitch (mm) W x H	Backlight Type	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
Built-In	240 x 64	180 x 65 x 14	132 x 39	.48 x .48	.53 x .53	LED 03	153-1079-ND	64.00	59.20	53.12	MGLS-24064-C-HV-G-LED3G

LCDs

Lumex Numbering System

L C D – S 4 0 1 C 4 0 T F – 1

1 2 3 4 5 6 7

1. **Type of Display** Liquid Crystal Display
2. **Operating Temperature** S = Standard (0° to 50°C)
   H = High Temp (-30° to 75°C)
3. **Model Number** Alphanumeric and Numeric
   401C40 =4 Character x 1 line, 0.40"
   4x1C45 =4.5 Character x 1 line, 0.45"
   x - represent 1/2 column
   Matrix and Graphic Model
   01602D =16 Characters x Lines, Dot Matrix
4. **Fluid Type** T = Twisted Nematic (TN)
   S = Super Twisted Nematic (STN)
5. **Polarizer Mode** R = Reflective
   F = Transflective
6. **Display Mode** Default = Positive Image (No Letter), or if more Description Follows Use "-"; N = Negative Image
7. **Viewing Direction** Default = 6 o'clock (No Number)
   1 = 12 o'clock

Format	No. of Digits	Digit Size (mm)	Type (mm)	No. of Pins	Dual Row Spacing (mm)	Digi-Key Part No.	Price Each 1	5	10	Lumex Part No.
188	2 1/2	12.17	2.54 Dip	16	28.67	67-1787-ND 67-1798-ND	1.78 1.78	1.65 1.65	1.48 1.48	LCD-S2X1C50TR LCD-S2X1C50TF
8.8.8	3	7.87	2.54 Dip	24	18.10	67-1788-ND 67-1799-ND	1.66 1.66	1.54 1.54	1.38 1.38	LCD-S301C31TR LCD-S301C31TF
LO BAT ÷ OVER 1.8:8.8	3 1/2	12.70	2.54 Dip	40	33.00	67-1789-ND 67-1800-ND	3.78 3.78	3.50 3.50	3.14 3.14	LCD-S3X1C50TR/A LCD-S3X1C50TF/A
LB -1.8.8.8	3 1/2	12.70	2.54 Dip	40	33.18	67-1790-ND 67-1801-ND	3.78 3.78	3.50 3.50	3.14 3.14	LCD-S3X1C50TR/B LCD-S3X1C50TF/B
÷1.8:8.8	3 1/2	12.70	2.54 Dip	40	31.05	67-1791-ND 67-1803-ND	3.78 3.78	3.50 3.50	3.14 3.14	LCD-S3X1C50TR/C LCD-S3X1C50TF/C
8.8:8.8	4	9.92	1.27 Dip	40	24.64	67-1792-ND 67-1809-ND	2.96 2.96	2.74 2.74	2.46 2.46	LCD-S401C39TR LCD-S401C39TF
	4	13.20	2.54 Dip	40	32.39	67-1793-ND 67-1804-ND	4.20 4.20	3.89 3.89	3.49 3.49	LCD-S401C52TR LCD-S401C52TF
	4	18.00	2.54 Dip	40	40.01	67-1794-ND 67-1805-ND	4.54 4.54	4.20 4.20	3.77 3.77	LCD-S401C71TR LCD-S401C71TF
÷1.8:8:8.8	4 1/2	8.89	2.54 Dip	40	24.45	67-1795-ND 67-1806-ND	3.04 3.04	2.82 2.82	2.53 2.53	LCD-S4X1C35TR LCD-S4X1C35TF
8.8:8.8:8.8	6	17.99	2.54 Dip	50	40.14	67-1796-ND 67-1807-ND	7.26 7.26	6.72 6.72	6.03 6.03	LCD-S601C71TR LCD-S601C71TF
8.8.8.8:8.8.8.8	8	10.70	1.80 Dip	66	20.60	67-1797-ND 67-1808-ND	4.20 4.20	3.89 3.89	3.49 3.49	LCD-S801C42TR LCD-S801C42TF

Lumex Numbering System

L C M – S 0 1 6 0 2 D T F – 1

1 2 3 4 5 6 7 8

1. **Type of Display** Liquid Crystal Module
2. **Operating Temperature** S = Standard (0° to 50°C)
   H = High Temp (-20° to 70°C)
3. **Model Number** Dot Matrix and Graphic Model
   01602 = 16 Character x 2 Lines
   12864 = 128 Columns x 64 Rows
4. **Display Type** D = Dot Matrix G = Graphic
5. **Fluid Type** T = Twisted Nematic (TN)
   S = Super Twisted Nematic (STN)
6. **Polarizer Mode** R = Reflective F = Transflective
7. **Display Mode** Default = Positive Image (No Letter), or if more description follows use "-"; N = Negative Image
8. **Viewing Direction** Default = 6 o'clock (No Number)
   1 = 12 o'clock

LCD Graphic Modules

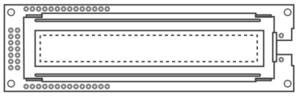
Features: • High Temperature Version

Built-in Controller	Dot Pixels W x H	Outline Dim. (mm) W x H x D	Viewing Area (mm) W x H	Pixel Size (mm) W x H	Pixel Pitch (mm) W x H	Back-light Type	Digi-Key Part No.	Price Each 1	5	10	Lumex Part No.
EPSON SED1520	122 x 32	84 x 44 x 12.70	60.50 x 18.50	.40 x .45	.44 x .49	LED	67-1782-ND	24.98	23.11	20.74	LCM-S12232GSF
SAMSUNG S6B0108	128 x 64 128 x 64	93 x 70 x 12.7 75 x 52.7 x 10	72 x 40 60 x 32.5	.48 x .48 .40 x .40	.52 x .52 .43 x .43	LED LED	67-1783-ND 67-1784-ND	47.80 50.80	44.22 46.99	39.68 42.17	LCM-S12864GSF LCM-H12864GSF/H-Y
TOSHIBA T6963C	240 x 64 240 x 128	180 x 65 x 14 144 x 104 x 15.1	133 x 40 114 x 64	.49 x .49 .40 x .40	.53 x .53 .45 x .45	LED LED	67-1785-ND 67-1786-ND	91.80 117.68	84.92 108.86	76.20 97.68	LCM-S24064GSF LCM-S240128GSF

Dot Matrix LCD Modules

Features: • High Temperature Version
• Standard Pin Connections

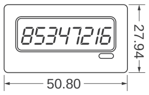
• All the LCD's listed use a SAMSUNG controller P/N S6A0069



Display Format	Character Format	Pad Layout	Outline Dimension W x H x D (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Dot Size W x H (mm)	Operating Temp. (°C)	Storage Temp. (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	5	10	Lumex Part No.
Twisted Nematic, Reflective without LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	3.07 x 6.56	.55 x .75	0 to +50	-20 to +70	5.0	67-1778-ND	7.50	6.94	6.23	LCM-S01601DTR
16 x 2	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	2.96 x 5.56	.56 x .66	0 to +50	-20 to +70	5.0	67-1779-ND	9.28	8.59	7.71	LCM-S01602DTR/A
16 x 2	5 x 8 Dots	L Side	84 x 44 x 12.7	66 x 16	2.96 x 5.56	.56 x .66	0 to +50	-20 to +70	5.0	67-1780-ND	9.28	8.59	7.71	LCM-S01602DTR/C
16 x 2	5 x 8 Dots	Bottom	66 x 26 x 6.5	52 x 19	2.46 x 5.56	.46 x .66	0 to +50	-20 to +70	5.0	67-1781-ND	5.88	5.44	4.88	LCM-S01602DTR/M
Super Twisted Nematic, Reflective without LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	3.07 x 6.56	.55 x .75	0 to +50	-20 to +70	5.0	67-1767-ND	9.56	8.85	7.94	LCM-S01601DSR
16 x 2	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	2.96 x 5.56	.56 x .66	0 to +50	-20 to +70	5.0	67-1768-ND	10.34	9.57	8.59	LCM-S01602DSR/A
16 x 2	5 x 8 Dots	Bottom	84 x 44 x 8.8	66 x 16	2.96 x 5.56	.56 x .66	0 to +50	-20 to +70	5.0	67-1769-ND	11.38	10.53	9.45	LCM-S01602DSR/B
16 x 2	5 x 8 Dots	L Side	85 x 30 x 8.9	66 x 16	2.96 x 5.56	.56 x .66	0 to +50	-20 to +70	5.0	67-1770-ND	10.34	9.57	8.59	LCM-S01602DSR/C
16 x 2	5 x 8 Dots	Bottom	122 x 44 x 8.8	99 x 24	4.84 x 9.63	.92 x 1.16	0 to +50	-20 to +70	5.0	67-1771-ND	15.50	14.34	12.87	LCM-S01602DSR/D
16 x 4	5 x 8 Dots	Top	87 x 60 x 8.9	65 x 25.6	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5.0	67-1772-ND	22.02	20.37	18.28	LCM-S01604DSR
20 x 2	5 x 8 Dots	L Side	116 x 37 x 8.9	85 x 18.6	3.2 x 5.55	.60 x .65	0 to +50	-20 to +70	5.0	67-1773-ND	15.82	14.64	13.14	LCM-S02002DSR
20 x 4	5 x 8 Dots	Top	98 x 60 x 8.8	77 x 26.3	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5.0	67-1774-ND	23.98	22.19	19.91	LCM-S02004DSR
24 x 2	5 x 8 Dots	L Side	118 x 36 x 8.8	93.5 x 16	3.2 x 5.55	.60 x .65	0 to +50	-20 to +70	5.0	67-1775-ND	16.46	15.23	13.67	LCM-S02402DSR
40 x 2	5 x 8 Dots	L Side	182 x 33.5 x 8.8	154 x 15.3	3.2 x 5.55	.60 x .65	0 to +50	-20 to +70	5.0	67-1776-ND	28.56	26.42	23.71	LCM-S04002DSR
40 x 4	5 x 8 Dots	L Side	190 x 54 x 10	149 x 29.5	2.78 x 4.89	.50 x .55	0 to +50	-20 to +70	5.0	67-1777-ND	57.28	52.99	47.55	LCM-S04004DSR
Super Twisted Nematic, Transflective with LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 12.7	66 x 16	3.07 x 6.56	.55 x .75	0 to +50	-20 to +70	5.0	67-1757-ND	12.62	11.68	10.48	LCM-S01601DSF
16 x 2	5 x 8 Dots	Top	80 x 36 x 12.7	66 x 16	2.96 x 5.56	.56 x .66	0 to +50	-20 to +70	5.0	67-1758-ND	13.36	12.36	11.09	LCM-S01602DSF/A
16 x 2	5 x 8 Dots	Bottom	84 x 44 x 12.7	66 x 16	2.96 x 5.56	.56 x .66	0 to +50	-20 to +70	5.0	67-1759-ND	13.98	12.94	11.61	LCM-S01602DSF/B
16 x 2	5 x 8 Dots	L Side	85 x 30 x 12.7	66 x 16	2.96 x 5.56	.56 x .66	0 to +50	-20 to +70	5.0	67-1760-ND	13.36	12.36	11.09	LCM-S01602DSF/C
16 x 4	5 x 8 Dots	Top	87 x 60 x 12.7	62 x 25.6	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5.0	67-1761-ND	27.66	25.59	22.96	LCM-S01604DSF
20 x 2	5 x 8 Dots	L Side	116 x 37 x 12.7	85 x 18.6	3.2 x 5.55	.60 x .65	0 to +50	-20 to +70	5.0	67-1762-ND	20.58	19.04	17.09	LCM-S02002DSF
20 x 4	5 x 8 Dots	Top	98 x 60 x 12.7	77 x 26.3	2.95 x 4.75	.55 x .55	0 to +50	-20 to +70	5.0	67-1763-ND	31.50	29.14	26.15	LCM-S02004DSF
24 x 2	5 x 8 Dots	L Side	118 x 36 x 12.7	93.5 x 16	3.2 x 5.55	.60 x .65	0 to +50	-20 to +70	5.0	67-1764-ND	21.28	19.69	17.67	LCM-S02402DSF
40 x 2	5 x 8 Dots	L Side	182 x 33.5 x 12.7	154 x 15.3	3.2 x 5.55	.60 x .65	0 to +50	-20 to +70	5.0	67-1765-ND	37.14	34.36	30.83	LCM-S04002DSF
40 x 4	5 x 8 Dots	L Side	190 x 54 x 14.5	149 x 29.5	2.78 x 4.89	.50 x .55	0 to +50	-20 to +70	5.0	67-1766-ND	67.48	62.42	56.01	LCM-S04004DSF

RED LION CONTROLS

CUB7 Series Miniature Electronic 8-Digit Counter



CUB7 / CUB7W (with Voltage Input)

• Replaceable internal lithium battery provides up to 7 years of uninterrupted operation • Front panel reset or remote reset • Wire connection made via screw clamp type terminals • Fits DIN standard cut-out 1.77" (45 mm) x 0.874" (22.2 mm) • Low speed count to 30Hz from switch closure or O.C. transistor. High speed count to 10 KHz (CUB7)

DESCRIPTION:

The *CUB7* and *CUB7W* are an 8-digit miniature counter with large 0.35 inch (8.89 mm) high digits. They have an LCD read-out available in Positive Image Reflective, Negative Image Transmissive with yellow/green or red LED backlighting. The backlight versions require an external 9 to 28 VDC power supply. The *CUB7* series is housed in a lightweight, high impact plastic case with a clear viewing window. The sealed front panel with the silicone rubber reset button meets NEMA 4X/IP65 specifications for wash-down and/or dusty environments, when properly installed. The *CUB7W* accepts most machine control voltage signals. The input accepts AC (50/60 Hz) or DC control voltages from 10 to 300 V at count speeds up to 30 counts per second (cps).

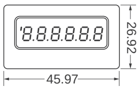
CUB7T

• 10 programmable timer ranges • 8-digit LCD reflective display with "Timer Active" annunciator • .35" (8.89mm) high digits • Available in either contact or voltage versions • Replaceable internal lithium battery provides up to 6 years of uninterrupted operation • Both front panel program and rest buttons are individually enabled • Wire connections via screw clamp type terminals • Front panel and remote reset input • NEMA 4X/IP65 sealed front bezel

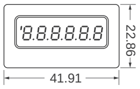
Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB7 8-Digit Reflective Display	RLC700-ND	48.00	CUB70000
CUB7 8-Digit Yellow/Green Backlight	RLC701-ND	68.00	CUB70010
CUB7 8-Digit Red Backlight	RLC702-ND	68.00	CUB70020
CUB7W 8-Digit Reflective w/Voltage Input	RLCW70-ND	52.00	CUB7W000
CUB7W 8-Digit Yellow Backlight w/Voltage Input	RLCW71-ND	72.00	CUB7W010
CUB7W 8-Digit Red Backlight w/Voltage Input	RLCW72-ND	72.00	CUB7W020
CUB7T 8-Digit Reflective w/Contact Input	RLC7T0-ND	44.00	CUB7T000
CUB7T 8-Digit Reflective with Voltage Input	RLC7T1-ND	45.00	CUB7T100

MDMU Miniature Electronic 6-Digit Counter/Timer/Tach

Panel Mount



Circuit Board Mount



• LCD, Positive Image Reflective or Negative Image Transmissive with yellow/green or red LED backlighting • Counter, timer and tach all in a single unit • Rate multiplier/prescaler from 0.0001 to 1.9999 in count and tach modes • 10 ranges in timer mode • Selectable decimal points • 5 VDC powered • Panel mount or PC board mount

DESCRIPTION

The MDMU is a complete 6-digit counter/timer/tach in a small panel or printed circuit board mounted package. It is designed to operate from a 5 VDC power supply. It has a 6-digit LCD with 0.35" (8.89mm) high digits and 5 selectable decimal points. In the timer modes, a flashing annunciator is supplied to indicate that the signal input of the MDMU is active. The displays are available in Positive Image Reflective (black digits, reflective background) or Negative Image Transmissive (illuminated digits, dark background) with red or yellow/green backlighting.

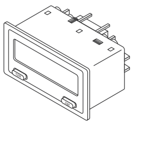
The **Counter** mode can be selected by setting the Mode Select Inputs to the appropriate levels (Hardware selection). A rate multiplier of 0.0001 to 1.9999 and a decimal point of 0 through 0.00000 can be selected using the *Program* mode. Decimal points may also be set using the DP Inputs (Hardware selection). Both the Count (CNT) and LSC Inputs can be used. (Using the *Program* mode options causes the counter to increment on the opposite edge of the Input signal.)

The **Timer** mode and range can be selected by either setting the Mode Select Inputs to the appropriate levels (Hardware selection) or by selecting the range in the *Program* mode. The timing range increments available are 1 msec, 10 msec, 100 msec, 1 sec, 0.1 min., 1 min., 0.01 hr, 0.1 hr, 1 hr, and hr:min:sec. The *Timer Active* annunciator will flash at a 2 Hz rate when the input to the timer is activated. Both the CNT and the LSC inputs can be used. The Inhibit (INH) Input can be used to enable or disable Leading Zero Blanking (LZB).

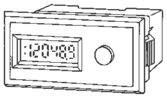
The **Tach** mode can be selected by setting the Mode Select Inputs to the appropriate levels (Hardware selection). In the **Tach** mode, the MDMU operates as a fixed 1 second time base tachometer. In the *Program* mode, the time base can be set 1 through 7 seconds (in whole second increments). The rate multiplier can also be programmed from 0.0001 through 1.9999. Decimal points can be set from 0 through 0.00000. Decimal points may also be set using the DP Inputs. Both the CNT and the LSC Inputs can be used.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
MDMU 6-Digit Panel Mount, Reflective Display	RLCU00-ND	35.00	MDMU0000
MDMU 6-Digit Panel Mount, Yellow Backlight	RLCU01-ND	45.00	MDMU0010
MDMU 6-Digit Panel Mount, Red Backlight	RLCU02-ND	45.00	MDMU0020
MDMU 6-Digit PCB Mount, Reflective Display	RLCU10-ND	32.00	MDMU0100
MDMU 6-Digit PCB Mount, Yellow Backlight	RLCU11-ND	42.00	MDMU0110
MDMU 6-Digit PCB Mount, Red Backlight	RLCU12-ND	42.00	MDMU0120
MDM Cable Assembly	RLC70-ND	12.00	HWK70000

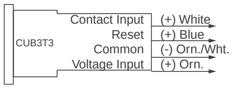
Counters and Timers



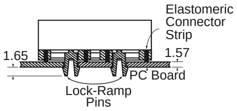
CUB 5 — LCD, Positive reflective or negative transmissive with yellow-green or red LED backlighting • 0.46" (11.7mm) high digits • Programmable decimal point • Front panel and remote reset • Count speeds up to 20KHz (high speed input) • Operates from 9 to 28 VDC power source • Programmable prescaler for totaling • Bi-directional counting, up/down control • Quadrature sensing (up to 4 times resolution) • Anti-coincidence counting (Add/Add and Add/Sub) • Separate count and rate input mode • Wire connections made via screw clamp type terminals • Dual counter mode • Count input voltage up to +28VDC • NEMA 4X/IP65 sealed front bezel.



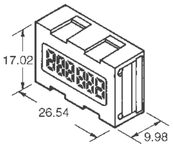
CUB III — Operates from switch contact or NPN open collector inputs • Self powered, 2-wire connection, eliminates power wiring. **Description:** Nylon case snap-fits into a standard rectangular opening without screws or other hardware. Hook-up is simply a matter of connecting two wires. No external power, internal batteries provide year of uninterruptible service. **Specifications:** • 6-digit, LCDm 0.2" (5.08mm) high • **Power:** 2 replaceable Alkaline "N" cells. Nominal battery life 4 years. Front panel reset button • **Count Input:** Switch contact of solid-state transistor switch. Counter increments on negative going edge of input. • **Count Speed:** 100 counts/sec. Batteries not supplied with counter, order separately.



CUB 3T3 — The CUB3T3 is designed to be used as hour, tenth hour, hundredth hour or tenth minute timers. The timing function can be activated by either a contact closure or the application of 10 to 300 (AC 50/60 Hz or DC) and is equipped with a remote reset. Time is displayed on a 6-digit LCD that will wrap around from a full display of "999999" to "000000" when an overflow occurs. **Specifications:** • **Display:** 6-digit, LCD, 0.2" (5.08mm) high. • **Power:** 3 volts supplied by a non-replaceable lithium battery. Nominal battery life is 7 years. • **Remote Reset:** 15 msec min. pulse width (active low) from 3.0 V bi-polar output, an open collector transistor, or a switch contact to common. • **Signal Input:** Contact Connections: Switch Contact or Solid-State Transistor Switch. A maintained closed switch will actuate the timer. • **10 to 300 V Connections:** 10 V min. to 300 V max. Constant voltage applied to the inputs will actuate the timer.



SUPER SUB CUB — True quadrature — with resolutions up to 4 times the encoded input • Bi-directional counting with up/down control • Anti-coincidence addition and subtraction • Polarity indication • 8-digit counting capability (6-digit display) • Decimal point and leading zero blanking selection • Solderless, elastomeric interconnects (snap mounts directly on P.C. board) • Ultra low power, 25µA at 5V (typical). **Description:** The Super Sub Cub provides all the capabilities and features of the Sub Cub 2 plus four "built-in" modes of operation: Bi-direction counting with up/down control, quadrature counting, coincidence summing and anti-coincidence add/subtract counting. *For dimensions, see Sub Cub 2.*

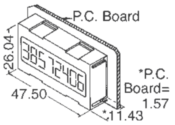


SUB CUB I — Complete 6-Digit Component Counters

• LSI counter chip with LCD display • Snap mounts directly on P.C. board • 0.2" (5.08mm) high display • Solderless, elastomeric interconnects • Ultra-low power, 5V at 15µA typical • Latchable display with leading zero blanking • Count rates to 500 KHZ • Ideal in applications for: Register, status and usage counting, frequency, EPUT, and RPM indication timer, pulse-width and period readout. **Description:** The modules contain a custom monolithic counter/driver chip that performs all the counting functions together with a 6-digit LCD readout. To be used as frequency or rate meters, timers, phase-angle or pulse width indicators and for other complex readout requirements in addition to simple high speed counting.

SUB CUB II — Complete 6-Digit Component Counters

• LSI counter chip with LCD display • Snap mounts directly on P.C. board • 0.35" (8.89mm) high display • Solderless, elastomeric interconnects • Ultra-low power, 5V at 15µA typical • Latchable display with leading zero blanking • Count rates to 500 KHZ • Ideal in applications for: Register, status and usage counting, frequency, INPUT, and RPM indication timer, pulse-width and period readout. **Description:** The modules contain a custom monolithic counter/driver chip that performs all the counting functions together with a 6-digit LCD readout. To be used as frequency or rate meters, timers, phase-angle or pulse width indicators and for other complex readout requirements in addition to simple high speed counting.



SUB CUB 2-8A • LSI counter chip and 0.30" (7.62mm) high LCD display • Solderless, elastomeric interconnects (snap mounts directly onto PC board) • Latchable display with selectable leading zero blanking • Count rates to 750KHz • Low power, 30µA at 5V (typical) **Description:** 8-digit LCD component up-counter • Test feature allows all decades to count in parallel to provide rapid testing. *For dimensions, see Sub Cub 2.*

SUB CUB D • True quadrature with resolutions up to 4 times the encoded input • Bi-directional counting with up/down control • Polarity indication • 3 position decimal point with selectable leading zero blanking • Solderless, elastomeric interconnects (snap mounts directly onto P.C. board) • Ultra low power, 15UA at 5.0V (typical). **Description:** The Sub Cub D provides all of the capabilities of the Sub Cub 2 with two additional modes of operation: Bi-directional counting with up/down control and quadrature counting. *For dimensions, see Sub Cub 2.*

SUB CUB T • LSI timer/counter chip with crystal controlled oscillator and .35" (8.89mm) high LCD display • Snap mounts directly onto P.C. board • Solderless, elastomeric interconnect • Ultra low power, 15UA at 5.0 VDC typical • Times in hours, 0.1 hours, 0.01 hours, and 0.1 minutes • Counts in X1, :10, :100, and :1000 • Debounce selectable in counter modes • Counts rates up to 500 KHz • Annunciator to indicate timer running • Accepts AC voltage on signal input directly through input resistor. **Description:** Completely self-contained timer/counter/display module. Ideal for internal "on board" applications where a readout of elapsed time or count is needed. *For dimensions, see Sub Cub 2.*

SUB CUB R • LSI counter chip with time base chip and .35" (8.89mm) high LCD display • Snap mounts directly onto P.C. board • Solderless, elastomeric interconnects • Ultra low power, 25UA at 3V • Selectable time base from 3.9 msec to 15.9 sec • Frequency doubling capability • Selectable decimal point positions • Master reset to synchronize time base with external functions. **Description:** Completely self-contained tachometer/display module. Contains a custom monolithic counter/driver chip, a custom time base chip, and a 6-digit liquid crystal display. Ideal for internal "on board" applications where readout of rate or frequency is needed. *For dimensions, see Sub Cub 2.*

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB 5			
CUB 5 Dual Counter & Rate Indicator Positive Image Reflective	RLC500-ND	92.05	CUB50000
CUB 5 Dual Counter & Rate Indicator with Yellow-Green Backlighting	RLC510-ND	103.00	CUB50010
CUB 5 Dual Counter & Rate Indicator with Red Backlighting	RLC520-ND	103.00	CUB50020
Micro Line/Sensor Power Supply	RLCMLPS-ND	31.00	MLPS0000
CUB III and CUB 3T3			
CUB III (Requires 2 N-Cell Batteries)	RLC03-ND	28.00	CUB III
CUB III w/Lithium Battery (Battery life 10 yrs. depending on usage)	RLC04-ND	33.00	CUB3L000/A
N-Cell Battery	P147-ND	1.08	AM5X
CUB 3T300 Timer, Remote Reset, 1 hour	RLC3TR-30-ND	48.00	CUB3T300
CUB 3T310 Timer, Remote Reset, 0.1 hour	RLC3TR-31-ND	48.00	CUB3T310
CUB 3T320 Timer, Remote Reset, 0.01 hour	RLC3TR-32-ND	48.00	CUB3T320
CUB 3T330 Timer, Remote Reset, 0.1 minute.	RLC3TR-33-ND	48.00	CUB3T330
SUPER SUB CUB			
Super Sub-Cub Display/Counter Module	RLC200A-ND	38.00	SSCUB200
Super Sub-Cub Prototype P.C. Board	RLC08-ND	14.00	DM-0SC-B03/A
SUB CUB I and II			
Evaluation Kit (batteries included, RLC02-ND & display counter needed)	RLC01-ND	52.00	DM-OSC-B01/A
Mounting PCB for Display Counter to Evaluation Kit	RLC02-ND	10.00	DM-OSC-B02/A

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
Display Counter .2" (5.08mm) High Digits	RLC1000-ND	22.00	SCUB-1000
Display Counter .35" (8.89mm) High Digits	RLC2000-ND	28.00	SCUB-2000
SUB CUB 2-8A			
8 Digit LCD component up-counter	RLC2-8A-ND	40.00	SCUB28A0
SUB CUB D			
8 Digit Bi-directional Module w/6 Digit LCD Display	RLC05-ND	30.00	SCUBD-200/A
Sub Cub D Prototype P.C. Board	RLC09-ND	14.00	DM-0SC-B04/A
SUB CUB T			
Timer/Counter 5 Digit	RLC07-ND	29.00	SCUBT-200/A
SUB CUB R			
6 Digit Rate Indicator Module	RLC06-ND	37.00	SCUBR-200/A
Bezels			
Bezel Kit w/P.C. Board & Cable (For RLC05-ND, RLC06-ND, RLC07-ND)	RLC10-ND	24.00	HWK-60-000/A
Panel Bezel Kit w/P.C. Board & Cable (For RLC2-8A-ND)	RLC28-ND	26.40	HWK-28-000/A
Panel Bezel Kit w/o P.C. Board & Cable (For RLC05-ND, RLC07-ND, RLC2-8A-ND, RLC200A-ND, RLC2000-ND)	RLC30-ND	10.00	HWK-30-000/A
Panel Bezel Kit w/P.C. Board & Cable (For RLC2000-ND)	RLC40-ND	20.00	HWK-40-000/A
Super Sub-Cub Panel Bezel Kit w/P.C. Board & Cable (For RLC200A-ND)	RLC50A-ND*	24.00	HWK-50-000/A

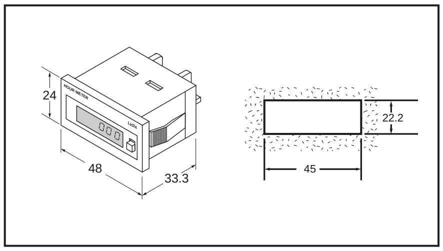
* Does not include SUPER SUB-CUB Display/Counter Module. Order SUPER SUB-CUB Module separately.

Aromat Corporation
NAiS Your Partner for the 21st Century

9278B-ND	Aromat Timers, Counters Data Book	**$2.95**

Timers, Counters and Hour Meters

LCD Hour Meters



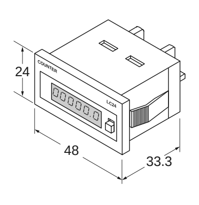
Aromat hour meters display total time when the signal input terminal is connected either together (No-Voltage, using a switch or relay) or the rated input voltage is applied directly to the input terminal (AC/DC Volt type).

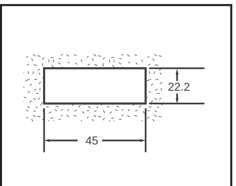
All hour meters feature a built-in 10 year battery for long life and screw terminals for easy connections.

Features:
- Large 7-digit LCD display value reading
- Wide range of measurement: 0 to 3999 days, 23.9 hours; 0 to 9999 hours, 59.9 min.

Input Type	Time Range	Reset	Digi-Key Part No.	Price Each 1	Price Each 25	Aromat Part No.
200-240VAC	0-3999 days, 23.9 hrs	Manual PB	255-1183-ND	41.25	39.60	LH24-F-DH-AH
200-240VAC	0-9999 hrs, 59.9 min.	Manual PB	255-1185-ND	41.25	39.60	LH24-F-HM-AH

LCD Up Totalize Counters





Panel Cutout

Aromat LCD Up Counters will display a totalized count when the input terminals have the proper input applied. AC input types have a maximum count of 30 cps and DC input types have a maximum count of 70 cps.

All counters are powered by a 10 year internal battery and feature screw terminals for easy connection.

Features:
- Large 7-digit LCD display
- Unnecessary "0"s are eliminated from the upper digits of elapsed value for easy reading.
- Wide counting range

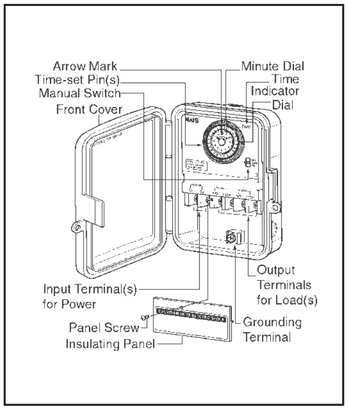
Input Type	Max. Count	Reset	Digi-Key Part No.	Price Each 1	Price Each 25	Aromat Part No.
200-240VAC	30cps	Manual PB	255-1192-ND	38.13	36.60	LC24-F-AH

Low Cost Universal Timer

User presettable in 15 minute intervals for permanent setting points of On-Off cycles. Easy to read direct view clock face and durable plastic enclosure (NEMA 3R rated) commonly used for indoor and outdoor applications. Perfect for applications such as: interior/exterior lighting, heating/ventilation systems, sign/display lighting, pool heaters, fans and conveyors, filters, pumps and refrigeration.

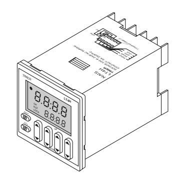
Specifications:

Available in 208 to 277VAC versions. DPST output with 30A@277VAC - Resistive; 15A@125VAC/5A@250VAC - Tungsten. Minimum load 100mA@12VDC. Nema 3R rated case for indoors/outdoors, safety lock compatible for security after programming.

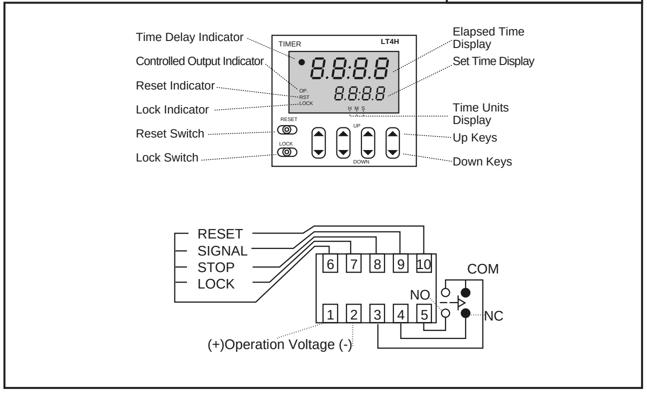


Operating Voltage	Switching Circuit	Digi-Key Part No.	Price Each 1	Price Each 25	Aromat Part No.
208-277VAC	DPST	255-1244-ND	37.25	35.76	TB1004R

LT4H Digital Timer

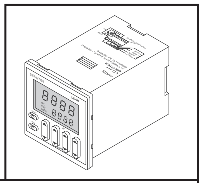


Aromat's LT4H Digital Timer is intended for process control for applications requiring duration time control such as delay-on/off, repeat cycle and start/stop time accumulation. The LT4H has features such as a bright 2 color back-lit display and EE-Prom memory, keeping your program settings without the need of an internal battery. The waterproof front panel keeps out dirt and water under poor operating conditions. Timing from .001 sec. to 999.9 hours, with 8 modes of operation and built-in timed SPDT relay (5A 250VAC).



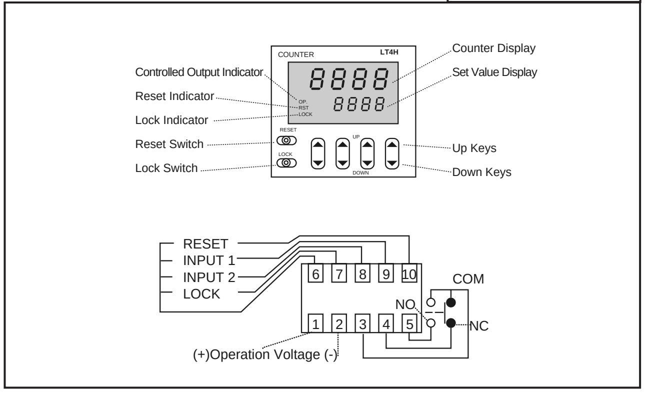
Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Aromat Part No.
100-240VAC	11 pin octal	255-1214-ND	104.00	93.60	88.40	LT4H-AC240V
100-240VAC	Screw Term.	255-1215-ND	104.00	93.60	88.40	LT4H-AC240VS
12-24VDC	11 pin octal	255-1216-ND	104.00	93.60	88.40	LT4H-DC24V
12-24VDC	Screw Term.	255-1217-ND	104.00	93.60	88.40	LT4H-DC24VS

LC4H Digital Counters



Aromat's LC4H Digital Counters are presettable counters that will count up or count down until your preset count is reached, then trigger the internal relay to switch in one of seven output modes.

Features such as 2 color back-lit display and waterproof front panel display allow this counter to be used in extreme environments.



Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Aromat Part No.
100-240VAC	11 pin octal	255-1218-ND	106.00	95.40	90.10	LC4H-R4-AC240V
100-240VAC	Screw Term.	255-1219-ND	110.50	99.45	93.93	LC4H-R4-AC240VS
12-24VDC	11 pin octal	255-1220-ND	101.00	90.90	85.85	LC4H-R4-DC24V
12-24VDC	Screw Term.	255-1221-ND	105.50	94.95	89.68	LC4H-R4-DC24VS

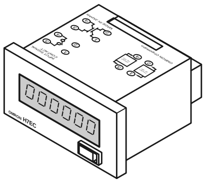
Accessories

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Aromat Part No.
40" Din Rail Mounting Track for Track Sockets	255-1210-ND	6.08	5.76	5.44	AT8-DLA1
End Stop Plate for Din Rail Mounting Track	255-1211-ND	2.00	1.89	1.79	ATA4806

OMRON®

Totalize Counter

Omron's self-powered totalizing counters feature either no-voltage inputs, DC voltage only or combined AC/DC voltage inputs. Offered in both 1KHz input for high speed, no chatter input signals or 30/20Hz inputs for relay and switch (high chatter) inputs. • Operating mode: up count • Display: LCD Digital, 0.2 in. high. New Blackcase. Replaceable battery.



Specifications:

• Supply voltage: Not required (powered by built-in battery) • Input: AC/DC voltage — 24 to 240VAC/VDC ±10%, 50/60Hz, or 6 to 240VDC ±10% at "High" (logic) level, 0 to 2.4VAC ±10%, 50/60 Hz, or 0 to 2VDC at "Low" (logic) level • DC voltage — 4.5 to 30VDC at "High" (logic) level, 0 to 2VDC at "Low" (logic) level • No-voltage — Maximum short-circuit impedance: 10kΩ max. • Reset time: 20ms reset signal. • Instruction Sheet Included.

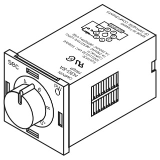
No. of Digits	Type of Input	Counting Speed	Terminal Type	Reset Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
8	No-voltage	30/1 kHz	Screw	Electrical	Z861-ND	47.92	44.37	41.42	H7EC-B
8	DC volt.	30/1 kHz	Screw	Electrical	Z865-ND	47.92	44.37	41.42	H7EC-NV-B
	AC/DC volt.	20 Hz	Screw	Electrical	Z867-ND	65.30	60.47	56.44	H7EC-FBV
8	DC voltage input	30/1kHz	Screw	External/ Manual	Z1144-ND*	56.38	52.20	48.72	H7EC-NV-BH

*Backlight 24 VDC

ON-Delay Timer Series H3G

Features:

• DPDT contact Form • Fits standard 8-pin sockets • Ideal replacement for time relays • LED power-ON indictor • On-delay only



Specifications:

• Supply Voltage: 100/110/120VAC • Operating Voltage: 85 to 110% of rated voltage • Timing Functions: ON-delay • Control Output, DPDT: Max. load - 5A, 125/250VAC (resistive lead), Min. load - 100mA, 5VDC • Repeat accuracy: ±2% maximum • Indicators: Power ON (LED) • Operating Temperature: 14°F to 131°F (-10°C to 55°C) • Variation due to voltage change: ±2% maximum • Variation due to temperature change: ±5% maximum • Mechanical Service Life: 10 million operations minimum • Electrical Service Life: 100,000 operations minimum at maximum ratings

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Analog Timer 120VAC 1-10 Second DPDT	Z877-ND	37.11	34.37	32.08	H3G8CAC100/110/12010S
Analog Timer 120VAC 6-60 Minute DPDT	Z932-ND	37.11	34.37	32.08	H3G8CAC10011012060M
Back Mount Relay Socket for H3G/H5CR Series	Z883-ND	10.30	9.27	8.24	P3G-08
Panel Mount Adapter for H3G Series	Z886-ND	5.53	4.98	4.42	Y92F-31

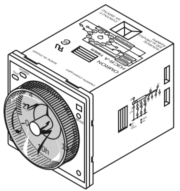
Solid State Relay Timers

Series H3CR—Analog

9249B-ND Omron Solid State Timers Catalog.....$1.00

Features:

• Field-selectable time ranges from 0.05 second to 300 hours • Use for delay timing, repeatable cycles or duration (interval) timing. Built-In DPDT relay switches when timing cycle is complete. Wide input voltage ranges from 100 to 240VAC or choose 24 to 48VAC/12-48VDC • Three external signal inputs for remote control of the timer. • Timing functions: ON-delay, Repeat cycle (B, B2), Signal ON/OFF delay. Signal OFF-delay, Interval.



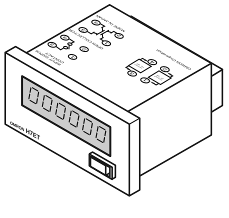
Specifications:

• Supply voltage: 100 - 240VAC, or 24 - 48VAC / 12-48DC • Operating voltage: 85%–110% of rated supply voltage • Control output: Type - DPDT relay, Max. load - 5A, 250VAC, Min. load - 10mA, 5VDC • Repeat Accuracy: ±0.3% full scale max., except in 1.2 s range ±0.3%, ±10ms.

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Analog Timer 120/240VAC Time Select DPDT	Z876-ND	55.44	51.33	47.91	H3CRAAC100240DC100125
Analog Timer 24VDC/AC Time Selectable DPDT	Z997-ND	55.44	51.33	47.91	H3CRAAC24-48/DC12-48
Track Mount Relay Socket for H3CR Series	Z884-ND	12.18	10.96	9.74	P2CF-11
Protective Panel Cover, Black For H3CR	Z929-ND	3.66	3.40	3.17	Y92P-48GB

Timer Counter

Omron's self-powered time totalizers displays cumulative time by counting the output signals received from a sensor. When the proper input has been applied, the timing circuit is enabled allowing the timer to start, disabling the inputs will stop the timing sequence. Key protect Switch to prevent front resetting. New blackcase. Replaceable Battery.



Specifications:

• Supply voltage: Not required (powered by built-in battery) • Input: AC/DC voltage — 24 to 240VAC, or 6 to 240VDC at "High" (logic) level, 0 to 1.5VAC, or 0 to 2VDC at "Low" (logic) level. DC voltage — 4.5 to 30VDC at "High" (logic) level, 0 to 2VDC at "Low" (logic) level. No-voltage — Max. short-circuit impedance: 10kΩ max. Short-circuit residual voltage: 0.5Vmax. Minimum open impedance: 500kΩ min. • Reset time: 20 ms reset signal. • Terminal: Screw type • Instruction Sheet Included.

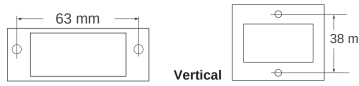
Type of Input	Time Range	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
No-voltage	0 to 999999.9h	w/o backlight	Z870-ND	56.38	52.20	48.72	H7ET-B
DC voltage only	0 to 999999.9h	w/o backlight	Z872-ND	61.54	56.99	53.19	H7ET-BV
AC/DC voltage	0 to 99h.59m.59s	w/o backlight	Z874-ND	72.82	67.43	62.93	H7ET-FBV1
AC/DC voltage	0 to 999999.9h	w/o backlight	Z875-ND	72.82	67.43	62.93	H7ET-FBV
DC voltage input	9999h59.9m	w/o backlight	Z1149-ND	61.54	56.99	53.19	H7ET-NV1-B
DC voltage input	999h59M59S	w/ backlight	Z1150-ND	67.18	62.21	58.06	H7ET-NV1-BH

Tachometer Counter

Omrons self powered tachometers offer a large display (8.6mm) with various input types available. Selectable multiplier/divider network allows either RPM or RPS measurement. Comes with waterproofing gasket and panel mounting bracket. Screw Terminal Connections. 4 digits.

Max. Counting Speed	24 VDC Backlight	Type of Input	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1kHz	—	No Voltage	Z1145-ND	61.54	56.99	53.19	H7ER-N-B
1kHz	—	DC Voltage	Z1146-ND	61.54	56.99	53.19	H7ER-NV-B
1kHz	Yes	DC Voltage	Z1147-ND	67.18	62.21	58.06	H7ER-NV-BH

Counter Accessories

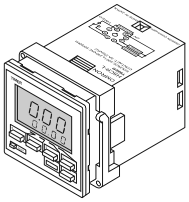


Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Horizontal Panel Mounting Adapter for H7 Series	Z998-ND	2.91	2.70	Y92F-75
Vertical Panel Mounting Adapter for H7 Series	Z999-ND	2.91	2.70	Y92F-76

Relay Timers Series H5CR—Digital

Features:

• Nine field-selectable output modes accommodate a wide variety of applications • All parameters set by scroll-through menus accessed from the front panel • Field-selectable time ranges from 0.001 second to 9999 hours • High-visibility alphanumeric LCD display has 8mm high characters and built-in backlight • Precision control possible to 0.001 second • 10-year battery back-up • Selectable elapsed time (UP) and time remaining (DOWN) display • Timing functions: 9 selectable, including ON-delay, repeat cycle, OFF delay, interval, and one-shot • Contact type: SPDT relay.



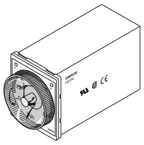
Specifications:

• Supply voltage: 100 to 240VAC, 50/60Hz • Operating voltage: 85%–110% of rated voltage • Relay control output: Max. load - 5A, 250VAC; Min. load - 10mA, 5VDC • Repeat accuracy: Power start ±0.01%, Signal start - ±0.005% • Indicators: H5CR-L: 4-digit LCD alphanumeric display, 8mm; H5CR-B: 4-digit LCD alphanumeric display with backlighting, 8mm • Memory function: Retains preset values for 10 years at 25°C • Operating Temp.: 14° to 131°F (-10°C to 55°C) • Mechanical service life: 10 million operations min. • Electrical service life: 100,000 operations min. at 5A, 240VAC, resistive load (p.f. = 1).

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Digital Timer 120/240VAC Time Select SPDT	Z880-ND	140.00	129.63	120.99	H5CR-L-AC100-240
Digital Timer w/Backlight 120/240VAC Time Select	Z881-ND	154.09	142.68	133.17	H5CR-B-AC100-240
Panel Mount Adapter for H3CR/H5CR Series	Z885-ND	9.28	8.36	7.43	Y92F-30
Back Mount Relay Socket for H3G/H5CR Series	Z883-ND	10.30	9.27	8.24	P3G-08

Relay Timers Series H3YN—Analog

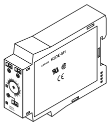
Features: • DPDT and 4PDT control output • Improved miniature timer relay that operates in 4 selectable modes: On-Delay, Interval, Repeat Cycle, On-Start (selectable by dip switches). • Independent Power-On and Time-Up indicators show relay status instantly • Control outputs: DPDT: 5 A at 250VAC, resistive load; 4PDT: 3A at 250VAC, resistive load • Repeat Accuracy: ±1% FS max. • Setting Error: ±10%±50ms FS max. • Operating Temperature: -10°C to 50°C • Mechanical Service Life: 10,000,000 operations min. • Electrical Service Life: DPDT: 500,000 operations min.; 4PDT: 200,000 operations min. For mounting socket, use Z882-ND (DPDT) or Z811-ND (4PDT).



Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Relay Timer Analog 0-10 Minute DPDT	Z1134-ND	41.34	38.28	35.73	H3YN-2 AC100-120
Relay Timer Analog 0-10 Hours DPDT	Z1135-ND	41.34	38.28	35.73	H3YN-21 AC100-120
Relay Timer Analog 0-10 Minute 4PDT	Z1136-ND	42.28	39.15	36.54	H3YN-4 AC100-120
Relay Timer Analog 0-10 Hours 4PDT	Z1137-ND	42.28	39.15	36.54	H3YN-41 AC100-120

OMRON

H3DE Relay Timers DIN Rail

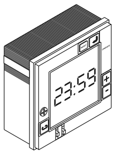


Features:

• Slim design for track mounting • Wide AC/DC power supply range (24 to 230VAC/DC) • Eight operating modes (H3DE-M) and four operating modes (H3DE-S) to cover a wide range of applications • Finger protection terminal block • Operating Mode: A: ON-delay (Signal or Power); B: Flicker OFF start (Signal or Power); B2: Flicker ON start (Signal or Power); C: Signal ON/OFF-delay; D: Signal OFF-delay; E: Interval (Signal or Power); G: Signal ON/OFF-delay; J: One-shot (Single or Power). For mounting track, use Z840-ND or Z841-ND.

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No
DIN Mnt. Timer – 8 Mode SPDT	Z1138-ND	38.52	35.67	33.30	H3DE-M1 AC/DC 24-230
DIN Mnt. Timer – 8 Mode DPDT	Z1139-ND	47.92	44.37	41.42	H3DE-M2 AC/DC 24-230
DIN Mnt. Timer – 4 Mode SPDT	Z1140-ND	29.13	26.97	25.18	H3DE-S1 AC/DC 24-230
DIN Mnt. Timer – 4 Mode DPDT	Z1141-ND	38.52	35.67	33.30	H3DE-S2 AC/DC 24-230

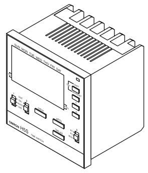
Programmable Weekly Timer



Large LCD display with 7 day x 24 hour programming. Perfect for controlling On-Off cycles for lighting, industrial and security. Two independent 15A control circuits and 16 step front program options allows fast and easy program changes. Wire connections are made by screw terminals from either the front or the back. Timer may be wall mounted, recessed into panel or din rail mounted. All mounting hardware and instructions are included. Optional protective hard plastic cover prevents accidental resetting and protects from dirt and water.

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Programmable Timer 100-240VAC w/Manual Override	Z1000-ND	181.34	167.91	H5L-A
Clear Protective Cover (Hard Plastic) for H5L-A	Z1001-ND	9.25	8.28	00-907062-002

Programmable Daily/Weekly Timer



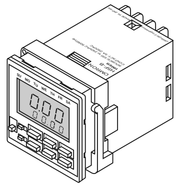
• AM/PM display • Field- adjustable ON/OFF, cycle, and pulse output • A different program possible each day • Wide supply voltage range • Two independent 15A control circuits with manual override • Battery backup for memory protection • Automatic or manual operation following power failure

Specifications:

• Supply voltage: AC 100 to 240V • Long-term error: ±15 seconds per month • Max load: 15A, 250VAC resistive load • Connections: Terminal screws • Min. load: 100mA, 5VDC • Operating temperature: -10° to 55°C • Repeat accuracy: ±0.01% • 50,000 operations minimum, 15A, 250VAC, resistive load

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Weekly Timer 100-240VAC	Z1143-ND	193.56	179.22	H5S-B

Digital Daily Timer



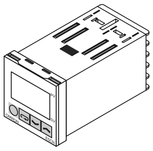
• Precise control of both regular and special ON/OFF times. • Can be set for timed or pulsed operation, and for multiple-day operation.

Specifications:

• Operation: 1) Daily operation (Multiple-day operation possible) 2) Pulse-output operation (pulse width can be set in units of 1 second from 1 to 59 seconds and in units of 1 minute from 1 to 60 minutes. 3) Partial operation on specified day. 4) Forced ON/OFF operation. • Repeat accuracy: ±0.01% • Memory protection: 5 years min • Life expectancy: 50,000 operations min (15A, 250VAC, resistive load) • Operating temperature: -10° to 55°C

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Timer Digital Daily 100-240VAC	Z1142-ND	151.28	140.07	H5F-B

Digital Temperature Controller



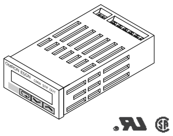
• Compact and Intelligent Temperature Controller • Heating control • Water-resistant: Construction: NEMA4

Specifications::

• Supply voltage: 100 to 240VAC, 50/60Hz • Control method: PID or ON/OFF control • Sensor input: Thermocouple: K, J, T, E, L, U, N, R, S, B • Operating temperature: -10°C to 55°C • Voltage output: 12VDC (PNP), max. load current: 21mA, • Short-circuit protection • Protective structure: Front Panel: NEMA4 for indoor use (equivalent to IP66) • Alarm output: SPST-NO, 250VAC, 1A • Memory protection: EEPROM (non-volatile memory)

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Temp. Controller Volt Out	Z1126-ND	150.34	139.20	E5CN-QMTC-500 AC/DC24
Digital Temp. Controller Volt Out	Z1127-ND	150.34	139.20	E5CN-QMTC-500 AC100-240
Digital Temp. Controller Relay Out	Z1128-ND	150.34	139.20	E5CN-RMTC-500 AC/DC24
Digital Temp. Controller Relay Out	Z1129-ND	150.34	139.20	E5CN-RMTC-500 AC100-240

Digital Temperature Controller



• Compact and Intelligent 1/32 DIN Temperature Controller
• Water-resistant: Construction: NEMA4

Specifications:

• Supply voltage: 100 to 240 VAC, 50/60 Hz • Operating temperature: -10°C to 55°C • Sensor input: Thermocouple: K, J, T, E, L, U, N, R, S, B • Control output: Relay output: SPST-NO, 250 VAC 2 A (resistive load) • Indication accuracy: Thermocouple: (±0.5% of indicated value) • Voltage output: 12 VDC (PNP), max. load current: 21 mA, with short-circuit protection

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Temperature Controller Volt Output	Z1130-ND	152.22	140.94	E5GN-Q1TC AC/DC24
Digital Temperature Controller Volt Output	Z1131-ND	152.22	140.94	E5GN-Q1TC AC100-240
Digital Temperature Controller Relay Output	Z1132-ND	152.22	140.94	E5GN-R1TC AC/DC24
Digital Temperature Controller Relay Output	Z1133-ND	152.22	140.94	E5GN-R1TC AC100-240

CURTIS

Timers/Counters 700 Series Solid State (Hour Meters and Counters)

Fig. 1

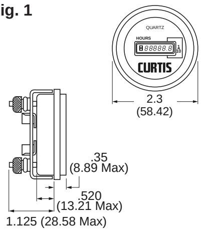


Fig. 2

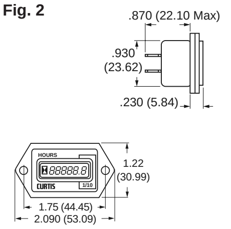


Fig. 3

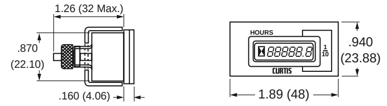


Fig. 4

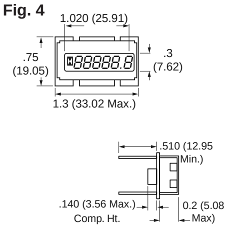
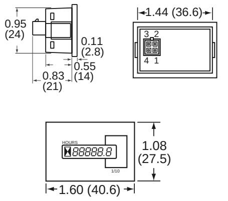


Fig. 5



Curtis Modules are ideally suited for OEM's panel makers and contract manufacturers to measure equipment usage for preventive maintenance scheduling, warranty validation and renting/leasing. These unique modules can be used as timers/counters in vending machines, medical equipment, fuel pumps, office equipment, flow instruments, consumer products and many other applications.

Features:

• Attractive and easy to read 6-digit Liquid Crystal Displays with 5 mm digit height • Compact size ideal for electronic subassemblies • Wide voltage range • AC/DC operation on most products • Input Frequency of 500 Hz on DC counters; 1 Hz on AC/DC counters • Exceptional reliability due to non-volatile (EEPROM) memory which can retain data for 25+ years • Resettable option.

700 and 701 Series:

6-digit Hour Meter module with 5mm (.197") high digits, non-backlit. **SPECIFICATIONS: Resolution:** 99,999.9 hours. **Accuracy:** ±0.1% hours. **Mechanical Shock:** SAE J1378 55g. **Operating Temperature:** -40°C to +85°C. **Storage Temperature:** -50°C to +90°C.

703 Series:

6-digit Pulse Counter module with 5mm (.197") high digits, non-backlit. **SPECIFICATIONS: Resolution:** 999,999 Counts. **Accuracy:** ±1 count. **Mechanical Shock:** SAE J1378 55g. **Operating Temperature:** -40°C to +85°C. **Storage Temperature:** -50°C to +90°C.

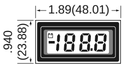
Fig.	Operating Mode	Operating Voltage DC	AC	Reset	Digi-Key Part No.	Price Each 1	10	Curtis Part No.
1	Hour Meter	12-48	20-60	Elect	267-1001-ND	34.00	30.60	701QR00101248D2060A
	Hour Meter	48-150	100-230	Elect	267-1002-ND	34.00	30.60	701QR001048150D100230A
2	Hour Meter	12-48	20-60	Elect	267-1003-ND	34.00	30.60	701FR00101248D2060A
	Hour Meter	48-150	100-230	Elect	267-1004-ND	34.00	30.60	701FR001048150D100230A
3	Hour Meter	12-48	20-60	Elect	267-1005-ND	34.00	30.60	701DR00101248D2060A
	Hour Meter	48-150	100-230	Elect	267-1006-ND	34.00	30.60	701DR001048150D100230A
	Counter	12-48	20-60	Elect	267-1007-ND	34.00	30.60	703DR00101248D2060A
	Counter	48-150	100-230	Elect	267-1008-ND	31.50	28.35	703DR001048150D100230A
4	Hour Meter	5-12	—	Elect	267-1009-ND	25.50	22.95	701PR-102
	Hour Meter	12-48	—	Elect	267-1010-ND	25.50	22.95	701PR-112
	Counter	5-12	—	Elect	267-1011-ND	25.50	22.95	703PR-102
	Counter	12-48	—	Elect	267-1012-ND	25.50	22.95	703PR-112
5	Hour Meter	48-150	100-230	Non	267-1026-ND†	20.26	18.24	700LN001N48150D100230A
	Hour Meter	12-48	—	Non	267-1027-ND†	20.26	18.24	701LN001N1248D
	Hour Meter	12-48	20-60	Non	267-1028-ND†	20.26	18.24	700LN001N1248D2060A

† **Order Mating Connector separately.** Housing WM1784-ND. Contacts: 20AWG - 24AWG - WM1837-ND; 26AWG - 30 AWG - WM1838-ND.

Digital Panel Meters

When choosing a Martel Panel Meter for your application, be aware of the difference between standard versions and "single-ended" versions designated by the suffix "S". Use standard versions with floating (isolated) input signals and use single-ended (S-type) versions when the signal to be measured shares the same ground as the meter's power supply. If in question, contact Digi-Key to obtain full data sheets before ordering.

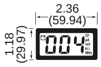
DPM125 LCD Series



Panel Cutout:
.87" x 1.77"
22.10mm x 44.96mm

The DPM125 features auto-zero, auto-polarity, 200mV fsr, 12.5mm digit height, low battery indication, and selectable decimal points. The meter will plug directly into a 12-pin SIL socket or can be panel mounted using snap-in bezel provided.

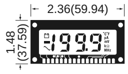
DPM500 LCD Series



Panel Cutout:
1.06" x 2.24"
26.92mm x 56.90mm

The DPM500 features auto-zero, auto-polarity, 200mV-2V-20V fsr, 12.5mm digit height, low battery indication, selectable decimal points, and 10 user-selected annunciators. The meter will plug into a 40-pin DIL socket or can be panel mounted using snap-in bezel provided. Also available with LED backlight.

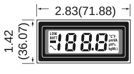
DPM600 LCD Series



Panel Cutout:
1.26" x 2.44"
32.00mm x 61.98mm
External Bezel

The DPM600 features auto-zero, auto-polarity, 200mV-2V-20V fsr, 12.5mm digit height, adjustable low battery indication, selectable decimal points, and 12 user-selected annunciators. The meter has 36 pins for PCB mounting or can be panel mounted with optional bezel (p/n MB10).

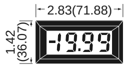
DPM2000 LCD Series



Panel Cutout:
1.3" x 2.68"
33.02mm x 68.07mm

The DPM2000 features auto-zero, auto-polarity, 200mV-2V-20V fsr, 15mm digit height, adjustable low battery indication, selectable decimal points, and 12 user-selected annunciators. The meter will plug into a 40-pin DIL socket or can be panel mounted using snap-in bezel provided.

DPM40 LED Series



Panel Cutout:
1.3" x 2.68"
33.02mm x 68.07mm

The DPM40 features auto-zero, auto-polarity, 200mV-2V-20V fsr, 11mm LED digit height, and selectable decimal points. The meter is supplied with a bezel and filter to give a high contrast display.

Specification		Min.	Typ.	Max.	Unit
Accuracy			0.05	0.1	% (+1 count)
Linearity				+1	count
Sample Rate			3		per sec
Temperature Stability			100		ppm/°C
Temperature Range		0		50	°C
Supply Voltage	DPM125/500	7.5	9	14	V
	DPM500S	3.5	5	6.5	V
	DPM600	5	9	14	V
	DPM2000	5	9	15	V
	DPM40	4.5	5	5.5	V
Supply Current	LCD normal		150		µA
	LCD S-type		450		µA
	LED		100	200	mA
Input Leakage Current		1		10	pA
Low Battery Threshold	DPM125/500		7.5		V
	DPM500S		3.7		V
	DPM600		7		V
	DPM2000		6.4		V
Backlight	DPM500		5		V @ 30mA

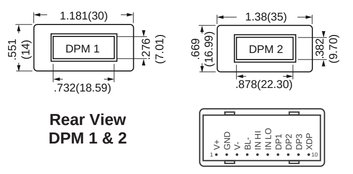
Supply	Input	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
7.5-15	200mV	227-1007-ND	65.70	62.42	59.13	DPM125
7.5-15	200mV	227-1008-ND	82.24	78.13	74.02	DPM125L
7.5-15	20V	227-1011-ND	68.62	65.19	61.76	DPM500-20
3.6-6.5	2V	227-1016-ND	79.84	75.85	71.86	DPM500S-2
3.6-6.5	20V	227-1017-ND	79.84	75.85	71.86	DPM500S-20
5-15	200mV	227-1021-ND	68.62	65.19	61.76	DPM600
5-15	20V	227-1023-ND	68.62	65.19	61.76	DPM600-20
5-15	200mV	227-1027-ND	71.92	68.33	64.73	DPM2000
5-15	2V	227-1028-ND	71.92	68.33	64.73	DPM2000-2
5-15	20V	227-1029-ND	71.92	68.33	64.73	DPM2000-20
5	200mV	227-1030-ND	87.90	83.51	79.11	DPM40
5	2V	227-1031-ND	87.90	83.51	79.11	DPM40-2
5	20V	227-1032-ND	87.90	83.51	79.11	DPM40-20
Bezel for DPM 600		227-1033-ND	3.50	3.33	3.15	MB10

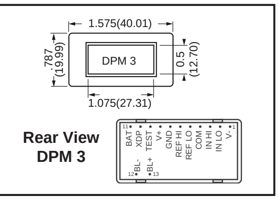
Universal Volt/Ammeter

The DPM1, 2 & 3AS-BL features 200mV d.c. measurement with auto-zero and auto-polarity. Decimal points are user selectable. The DPM1, 2 & 3AS-BL features a negative rail generator which enables the meter to measure a signal referenced to its own power supply GND. LED backlighting ensures excellent readability under low light conditions. The design of the housing allows the module to be easily snapped into a panel. The modules low cost means it will suit high and low volume applications. The DPM1, 2 & 3AS-BL is intended to replace the DPM1, 2 & 3 and DPM1, 2 & 3S, requiring only minor circuit modifications.

Features:

• 5.5mm (0.22") Digit Height • 200mV d.c. Full Scale Reading • 3.0-7.5V or 6.0-15.0V Operation • Auto-zero and Auto-polarity • Programmable Decimal Points • LED Backlighting





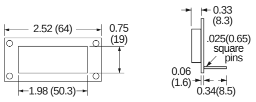
Specification		Min.	Typ.	Max.	Unit
Accuracy (overall error)*			0.1		% (±1 count)
Linearity				±1	count
Sample Rate			2.5		per/sec
Temperature Range		0		50	°C
Temperature Stability			250		ppm/°C
Supply Voltage	V+ to GND	3.0	5.0	7.5	V
	V+ to V-	6.0	9.0	15.0**	
Supply Current	V+ to GND		350		µA
	V+ to V-		175		
Backlight Supply Voltage		4.75	5.0	***	V
Backlight supply current @ 5V			15	30****	mA
Input Leakage Current (Vin = 0V)			1	10	pA

* To ensure maximum accuracy, re-calibrate periodically.
** Operation of the meter beyond the maximum supply voltage rating may cause permanent damage to the meter.
*** An external series resistor is required above 5V, see Application.
**** This specification linearly derates to 20mA @ 50°C.

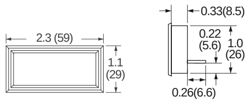
Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
LCD 5.5MM Univ Mini Meter Backlight	227-1047-ND	52.44	49.82	47.20	DPM1AS-BL
LCD 8.2MM Univ Mini Meter Backlight	227-1048-ND	56.94	54.10	51.25	DPM2AS-BL
LCD 11MM Univ Mini Meter Backlight	227-1049-ND	59.94	56.95	53.95	DPM3AS-BL

Miniature Digital Panel Meters

035 Series



065 Series



Specifications:

Display: • **Digits:** 3-1/2 Digits (=1999 counts) • **Polarity:** Automatic "-" displayed • **Decimal Points:** 3-position user selectable • **Overload:** Three lower order digits for inputs >1999 and <1999 • **Hold:** Display hold function is standard.

Inputs: • **Ranges:** ±200.0mV, ±2.000V, ±20.00V • **Configuration:** 035 Series: Bipolar differential; 065xS Series: Bipolar, single-ended; (INLO internally referenced to supply GND) • **Protection:** ±350V DC (±100VDC on 200mV range) • **Impedance:** >1 Megohm (>10 Megohm on 200mV range)

Performance: • **Accuracy:** ±(0.1% +1 count) typical; ±(0.2% +2 counts) maximum • **Temperature Coefficient:** ±100 ppm per °C typical • **Operating Range:** 0°C to 50°C • **Storage Range:** -10°C to 60°C

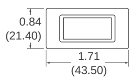
Power Supply: • **Voltage:** +5V DC (±5%)

Mounting: • **035 Series:** Window mount or bezel mount with optional bezel • **065 Series:** Snap-in bezel mount • **Connection:** 10 pins, 0.025" (.635mm) square on 0.1" (2.54mm) centers

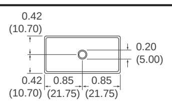
Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
035 Series DPM, Red LED	227-1034-ND	40.98	39.45	38.32	DPM35R
035 Series DPM, Green LED	227-1035-ND	40.98	39.45	38.32	DPM35G
065 Series DPM, Reflective LCD	227-1036-ND	40.98	39.45	38.32	DPM65
065 Series DPM, S-Rail LCD	227-1037-ND	40.98	39.45	38.32	DPM65S
Bezel for DPM35 Series	227-1038-ND	3.17	3.07	2.98	BEZ35

Single Hole Mounting LCD Meters

5.5mm / 7/32" Hole in the Panel



Rear View



Module Thickness: 0.22 (5.5)

Specifications	
Accuracy	0.2 V (±1 count)
Linearity	±1VDC
Temp. Stability	100ppm/°C
Temp. Range	0-50°C

Digi-Key Part No.	Price Each	Martel Part No.
227-1042-ND	34.04	QM100V
227-1043-ND	34.04	QM110T
227-1044-ND	34.04	QM120C
227-1045-ND	27.22	QM130M
227-1046-ND	44.21	QM140V

QM-100V ***Specifications:*** • 2 Wire Voltmeter • 3 Digit LCD with reverse polarity protection up to 30VDC for up to 30 seconds • **Sample Rate**: 3 sample/seconds • **Full Scale Reading**: 4 to 25VDC • **Accuracy**: 0.2V (±1 count) Typical • **Linearity**: ±1VDC • **Temperature Stability**: 100ppm/°C • **Operating Temperature Range**: 0 to 50°C • **Supply**: 3 to 50VDC @ 3mA

QM-110T ***Specifications:*** • 5 Wire Thermometer • 3 Digit LCD with reverse polarity protection up to 30VDC for up to 30 seconds • **Sample Rate**: 3 sample/seconds • **Temperature Range**: -10 to +50°C (Internal); -20 to +220°C (External) • **Accuracy**: 1°C (±2 count) Typical • **Temperature Stability**: 100ppm/°C • **Operating Temperature Range**: 0 to 50°C • **Supply**: 4 to 28VDC

QM-120C ***Specifications:*** • 8 Wire Elapsed Hour Meter • 5 Digit LCD • **Input**: 0 to 1VIL‡, 2 to V+VIH‡ (‡*Applies to V-SENSE, RESET, LZB, RANGE, TRIP/TOTAL, and PULSE connections*) • **Resolution**: Range 9999.9=0.1 Hour Typical; Range 99999=1 Hour Typical • **Operating Temperature Range**: 0 to 50°C • **Supply**: 5 to 27VDC @ 2.5mA

QM-130M ***Specifications:*** • 3 Wire DC Voltmeter • 9 Segment Analog LCD with auto zero • **Sample Rate**: 10 sample/seconds • **Full Scale Reading**: 1VDC • **Accuracy**: 1 Segment (±1 count) Typical • **Resolution**: 125mV Typical • **Operating Temperature Range**: 0 to 50°C • **Supply**: 5 to 12VDC (9VDC Typical) @ 1.5mA

QM-140V ***Specifications:*** • 10 Wire DC Voltmeter • 3-1/2 Digit LCD • **Sample Rate**: 3 sample/seconds • **Full Scale Input**: 200mV • **Accuracy**: 0.05% Typical; 0.1% Max. (±1 count) • **Temperature Stability**: 100ppm/°C • **Operating Temperature Range**: 0 to 50°C • **Supply**: 7.5 to 15VDC (9VDC Typical) @ 150µA

CTon Industries

Digital Panel Meters

Fig. 1 — 1/8 Din BIG 3.5 DIGIT Series

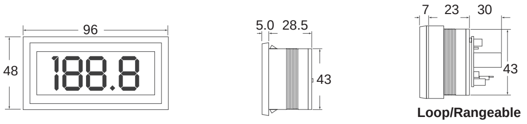


Fig. 2 — Surface Mount 3.5 Digit LCD

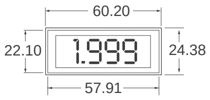


Fig. 3 — Snap-in LCD

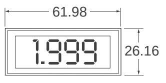


Fig. 4 — Snap-in 3.5 Digit LCD

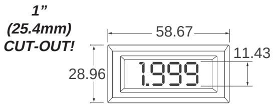


Fig. 5 — Mini 3.5 Digit LCD

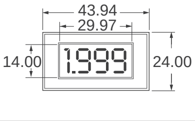


Fig. 6 — Window Mount 3.5 Digit LCD

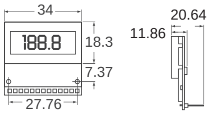


Fig. 7— Flat Pack 3.5 Digit LCD

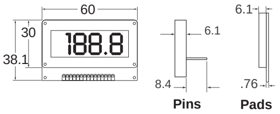


Fig. 8 — 4.5 Digit LCD Window/Surface Mount

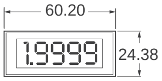


Fig. 9 — 3.5 Digit LED

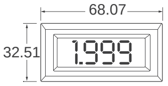
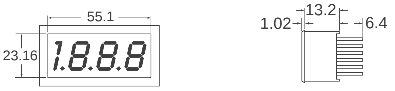


Fig. 10 — DIP Panel Meter 3.5 Digit LED



General LCD Specifications:
• **Type:** 7-segment, liquid crystal display (LCD) • **Polarity:** Displays (–) automatically • **Over/Under Range:** Over-range displays "1" and under-range displays "-1" • **Configuration:** True differential input and reference • **Protection:** 250VDC or 150V RMS continuous 300VDC intermittent max. • **Gnd Differential (Source to Input) :** ±1V max. • **Com Mode Reject:** >86 decibels • **Zeroing:** Automatic • **Operating Temperature:** Standard 0°C to 50°C • **5-Year Unconditional Warranty**

1/8 DIN Big 3.5 Digit Series ***Specifications:*** • 3-1/2 digit 7-segment LED or LCD • +5VDC powered • Over range indication and automatic zero • **Height:** 20.32mm LED, 24.89mm LCD • **Input:** Single ended or true differential • **Polarity:** (–) displayed for negative reading • **Current Draw:** 180mA LED, 3mA LCD • **Operating Temperature:** -10°C to 50°C LED, 0°C to 50°C LCD • **Connection:** Loop - Screw terminals • Voltage - 13 Pin male header; 13 Pin mating harness included

3.5 Digit LCD ***Specifications:*** • **Annunciators:** 9VDC powered meters have "LO BAT" when power <7.2VDC • **Decimal Point:** User selectable 3-position • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Power:** 9 VDC isolated @ 180µA, 5VDC @ 3mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -20°C to 70°C • **Type:** Surface Mount • **Pins:** 13 or 10 pins, .64mm square on 2.54mm centers • **Backlit Power Options:** +5 VDC, ±5%, Red 165mA typical (200mA max.); Green 115mA typical (160mA max.) • **Backlit Connections:** Standard 2 solder pads • **Styles:** Surface/window or snap-in bezel

Miniature LCD ***Specifications:*** • **Annunciators:** 11 different user selectable annunciators: BAT, °C, °F, ~, m, µ, MΩ, KΩ, V, A, HOLD • **Decimal Point:** User selectable 3-position • **Full Scale Range:** Standard ±200mVDC, ±2VDC • **Power:** 9VDC isolated (7.2-15V) at 150µA, 5VDC @ 5mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -20°C to 70°C • **Type:** Snap-in Bezel Mount • **Pins:** Standard 26 pins, .46mm square, DIP style

4.5 Digit LCD ***Specifications:*** • **Annunciators:** 9VDC powered meters have "BT" when power <7.2VDC • **Decimal Point:** User selectable 4-position • **Hold:** Standard feature • **Full Scale Range:** ±200mVDC and ±2VDC • **Power:** 9VDC isolated @ 1mA, 5VDC @ 3.5mA • **Conversion Rate:** 2 per second • **Storage Temperature:** -10°C to 60°C • **Types:** Surface/window mount • **Pins:** 13 pins, .64mm square on 2.54mm centers

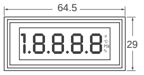
3.5 Digit LED ***Specifications:*** • **Type:** 7-segment light emitting diode (LED) • **Digits:** 0.56" (12.7mm) height • **Color:** Green or Red • **Polarity:** Displays (–) automatically • **Decimal Point:** User selectable 3-position • **Over/Under Range:** Over range displays "1" and under-range displays "-1" • **Hold:** Standard feature • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Configuration:** Bipolar, fully differential • **Power:** +5VDC, ±5% at 200mA • **Conversion Rate:** 3 per second • **Zeroing:** Automatic • **Operating Temperature:** 0°C to 50°C • **Storage Temperature:** -20°C to 70°C • **Relative Humidity:** 0 to 95% non-condensing • **Type:** Bezel Mount • **Pins:** Standard 10 pins, .64mm square on 2.54mm centers • **5-Year Unconditional Warranty**

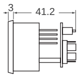
Process Meter ***Specifications:*** • Meter and loop powered/controlled PCB in one unit • 3.5 or 4.5 digit • LCD and red or green LED • Fully scalable • 300Ω Impedance, nominal

Note: Flat Pack LCD § Pad ‡ Pin • Non-Backlit

Fig.	Supply	Input	Color	Digi-Key Part No.	Price Each			C-Ton Part No.	Use Cable Assy.
					1	10	50		
Digital Panel Meters									
1/8 DIN Big 3.5 Digit LCD									
1	+5	200mV	—	CDPM801A-ND•	56.90	54.06	49.79	DK801A	—
	+5	2V	—	CDPM802A-ND•	56.90	54.06	49.79	DK802A	—
	+5	20V	—	CDPM803A-ND•	56.90	54.06	49.79	DK803A	—
	Loop	4-20mA	—	CDPM807A-ND•	66.40	63.08	58.10	DK807A	—
Rangeable									
1	12/24V	5/10V/200mV	—	CDPM809-ND•	66.40	63.08	58.10	DK809	—
1/8 DIN Big 3.5 Digit LED									
1	+5	200mV	Red	CDPM851A-ND	56.90	54.06	49.79	DK851A	—
	+5	2V	Red	CDPM852A-ND	56.90	54.06	49.79	DK852A	—
	+5	20V	Red	CDPM853A-ND	56.90	54.06	49.79	DK853A	—
	+24V	4-20mA	Red	CDPM857A-ND	66.40	63.08	58.10	DK857A	—
	+5	200mV	Green	CDPM951A-ND	56.90	54.06	49.79	DK951A	—
	+5	2V	Green	CDPM952A-ND	56.90	54.06	49.79	DK952A	—
	+5	20V	Green	CDPM953A-ND	56.90	54.06	49.79	DK953A	—
	+24V	4-20mA	Green	CDPM957A-ND	66.40	63.08	58.10	DK957A	—
Surface Mount 3.5 Digit LCD									
2	+9	200mV	—	CDPM101-ND•	37.90	36.01	33.17	DK101	J4C13
	+9	2V	—	CDPM102-ND•	37.90	36.01	33.17	DK102	J4C13
	+9	20V	—	CDPM103-ND•	37.90	36.01	33.17	DK103	J4C13
	+5	200mV	—	CDPM301-ND•	37.90	36.01	33.17	DK301	J1C13
	+5	2V	—	CDPM302-ND•	37.90	36.01	33.17	DK302	J1C13
	+5	20V	—	CDPM303-ND•	37.90	36.01	33.17	DK303	J1C13
	+5	200mV	Green	CDPM331-ND	47.40	45.03	41.48	DK331	J1C13
	+5	2V	Green	CDPM332-ND	47.40	45.03	41.48	DK332	J1C13
	+5	200mV	- Green	CDPM431-ND	47.40	45.03	41.48	DK431	J1C13
	+5	2V	- Green	CDPM432-ND	47.40	45.03	41.48	DK432	J1C13
	+5	200mV	- Red	CDPM531-ND	47.40	45.03	41.48	DK531	J1C13
	+5	2V	- Red	CDPM532-ND	47.40	45.03	41.48	DK532	J1C13
Snap-in 3.5 Digit LCD									
3	+5	200mV	—	CDPM500-ND•	37.90	36.01	33.17	DK500	J1C13
	+5	2V	—	CDPM501-ND•	37.90	36.01	33.17	DK501	J1C13
	+5	20V	—	CDPM502-ND•	37.90	36.01	33.17	DK502	J1C13
Snap-in 3.5 Digit LCD — 25.40mm Cutout									
4	+5	200mV	—	CDPM110-ND•	37.90	36.01	33.17	DK110	J1C10
	+5	2V	—	CDPM111-ND•	37.90	36.01	33.17	DK111	J1C10
	+5	20V	—	CDPM112-ND•	37.90	36.01	33.17	DK112	J1C10
Miniature 3.5 Digit LCD									
5	+5	200mV	—	CDPM201-ND•	37.90	36.01	33.17	DK201	—
	+5	2V	—	CDPM202-ND•	37.90	36.01	33.17	DK202	—
	+9	200mV	—	CDPM203-ND•	37.90	36.01	33.17	DK203	—
	+9	2V	—	CDPM204-ND•	37.90	36.01	33.17	DK204	—
Mini Window Mount Low-Cost 3.5 Digit LCD									
6	9/±5	200mV	Green	CDPM720-ND‡	37.90	36.01	33.17	DK720	—
		2V	Green	CDPM721-ND‡	37.90	36.01	33.17	DK721	—
		200mV	- Green	CDPM722-ND‡	37.90	36.01	33.17	DK722	—
		2V	- Green	CDPM723-ND‡	37.90	36.01	33.17	DK723	—
	9/±5	200mV	- Red	CDPM724-ND‡	37.90	36.01	33.17	DK724	—
		2V	- Red	CDPM725-ND‡	37.90	36.01	33.17	DK725	—
		200mV	Red	CDPM726-ND‡	37.90	36.01	33.17	DK726	—
		2V	Red	CDPM727-ND‡	37.90	36.01	33.17	DK727	—
	+5	200mV	Green	CDPM730-ND‡	37.90	36.01	33.17	DK730	—
	+5	2V	Green	CDPM731-ND‡	37.90	36.01	33.17	DK731	—
	+5	200mV	- Green	CDPM732-ND‡	37.90	36.01	33.17	DK732	—
	+5	2V	- Green	CDPM733-ND‡	37.90	36.01	33.17	DK733	—
	+5	200mV	- Red	CDPM734-ND‡	37.90	36.01	33.17	DK734	—
	+5	2V	- Red	CDPM735-ND‡	37.90	36.01	33.17	DK735	—
	+5	200mV	Red	CDPM736-ND‡	37.90	36.01	33.17	DK736	—
	+5	2V	Red	CDPM737-ND‡	37.90	36.01	33.17	DK737	—
Flat Pack 3.5 Digit LCD									
7	+9	200mV	—	CDPM171-ND§•	37.90	36.01	33.17	DK171	—
	+9	2V	—	CDPM172-ND§•	37.90	36.01	33.17	DK172	—
	+9	20V	—	CDPM173-ND§•	37.90	36.01	33.17	DK173	—
	+9	200mV	—	CDPM174-ND‡•	37.90	36.01	33.17	DK174	—
	+9	2V	—	CDPM175-ND‡•	37.90	36.01	33.17	DK175	—
	+9	20V	—	CDPM176-ND‡•	37.90	36.01	33.17	DK176	—
	+5	200mV	—	CDPM177-ND‡•	37.90	36.01	33.17	DK177	—
	+5	2V	—	CDPM178-ND‡•	37.90	36.01	33.17	DK178	—
	+5	20V	—	CDPM179-ND‡•	37.90	36.01	33.17	DK179	—
Window/Surface Mount 4.5 Digit LCD									
8	+5	200mV	—	CDPM702-ND•	47.40	45.03	41.48	DK702	J4C13
	+5	2V	—	CDPM703-ND•	47.40	45.03	41.48	DK703	J4C13
	+9	200mV	—	CDPM704-ND•	47.40	45.03	41.48	DK704	J4C13
	+9	2V	—	CDPM705-ND•	47.40	45.03	41.48	DK705	J4C13
Snap-in 4.5 Digit LCD									
3	+5	200mV	—	CDPM710-ND•	47.40	45.03	41.48	DK710	J4C13
	+5	2V	—	CDPM711-ND•	47.40	45.03	41.48	DK711	J4C13
	+5	20V	—	CDPM712-ND•	47.40	45.03	41.48	DK712	J4C13
3.5 Digit LED									
9	+5	200mV	Green	CDPM601-ND	37.90	36.01	33.17	DK601	J1C10
	+5	2V	Green	CDPM602-ND	37.90	36.01	33.17	DK602	J1C10
	+5	20V	Green	CDPM603-ND	37.90	36.01	33.17	DK603	J1C10
	+5	200mV	Red	CDPM604-ND	37.90	36.01	33.17	DK604	J1C10
	+5	2V	Red	CDPM605-ND	37.90	36.01	33.17	DK605	J1C10
	+5	20V	Red	CDPM606-ND	37.90	36.01	33.17	DK606	J1C10
DIP Panel Meter 3.5 Digit LED									
10	+5	200mV	Red	CDPM630-ND	43.60	41.42	38.15	DK630	—
	+5	2V	Red	CDPM631-ND	43.60	41.42	38.15	DK631	—
	+5	20V	Red	CDPM632-ND	43.60	41.42	38.15	DK632	—
	+5	200mV	Green	CDPM633-ND	43.60	41.42	38.15	DK633	—
	+5	2V	Green	CDPM634-ND	43.60	41.42	38.15	DK634	—
	+5	20V	Green	CDPM635-ND	43.60	41.42	38.15	DK635	—
	+5	200mV	Blue	CDPM636-ND	53.10	50.45	46.47	DK636	—
	+5	2V	Blue	CDPM637-ND	53.10	50.45	46.47	DK637	—
	+5	20V	Blue	CDPM638-ND	53.10	50.45	46.47	DK638	—
DIP Panel Meter 3.5 Digit LED with Hold Function									
10	+5	200mV	Red	CDPM640-ND	47.40	45.03	41.48	DK640	—
	+5	2V	Red	CDPM641-ND	47.40	45.03	41.48	DK641	—
	+5	20V	Red	CDPM642-ND	47.40	45.03	41.48	DK642	—
Bezel for 630/640 Series				CDPM650-ND	2.00	1.90	1.75	DLA-BEZ	—
Process Meter									
3	Loop	4-20mA	—	CDPM590-ND•	61.76	58.68	54.04	DK590	—
4	Loop	4-20mA	—	CDPM190-ND•	61.76	58.68	54.04	DK190	—

Epic Series 3 1/2 and 4 1/2 Digit, Voltage and Process Meters





Features: • RF/EMI resistant • Snap-in panel mounting • Engineering units (user selectable) • 1" cut out required • Multiple colors available • **5 year Unconditional Warranty**

Common Specifications: • **Power:** 5Vdc @ 3.5mA • **Digits:** .45" (11.43mm) seven segment LCD • **Annunciators:** User selectable °F, °C, PSI, % • **Decimal Point:** User selectable • **Colors:** Amber numerals, Green numerals, Red numerals, Green background • **Backlight Power:** 5Vdc • **Input Ranges:** ±200mV, ±2V, ±20V • **Conversion Rate:** 3 per second • **Operating Temperature:** 0°C to 50°C • **Storage Temperature:** -10° to 60°C • **Over/under Range Indication:** 1.... / -1.... • **Pins:** 13 ins, 0.025" (.64mm) square on 0.100" (2.54mm) centers • **Configuration:** Bipolar, true differential • **Panel Clearance Required:** 1.25" (31.75mm) • **Case Style:** Snap-in bezel mounting

Process Common Specifications: • Meter and loop powered PCB in one package • Backlight (if selected) powered by separate terminals • **Power:** Powered by the 4-20mA process loop • **Optional Backlight Power:** 5Vdc, 24Vdc • **Range:** Fully scalable • **Digits:** .45" (11.43mm) seven segment LCD • **Colors:** Standard LCD, Amber numerals, Green numerals, Red numerals, Black numerals with Green background • **Annunciators:** User selectable °F, °C, PSI, % • **Operating Temperature:** 0° to 50°C • **Storage Temperature:** -10° to 60°C • **Over/under Range Indication:** 1.... / -1.... • **Wiring:** 2 pin screw terminals (4 pin with optional backlights) • **Panel Clearance Required:** 1.75" (44.45mm) • **Case Style:** Snap-in bezel mounting

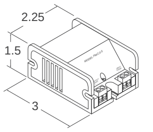
Rangeable Voltage Specifications: 3.5 & 4.5 digit with high-contrast LCD display • Power: 12Vdc or 24Vdc regulated (selectable) • Inputs: 0-5Vdc, 0-10Vdc, or 0-200mv dc (selectable) • Optional Negative Backlight (back ground black, digits color): BL power 24vdc at 24ma. • Polarity: Automatic • Annunciators: User selectable F, C, PSI, % • Decimal Point: User selectable • Operating Temp: 0-50c • Connection: 6 screw terminal • Case: Snap-in Bezel

NOTE: The products shown include standard, non-backlighted and negative backlighted (numerals lighted) LCDs. Also available, as non-catalog items, are positive backlighted (black numerals with lighted background) LCDs.

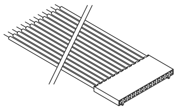
Supply	Input	Color	Digi-Key Part No.	Price Each			C-Ton Part No.	Use Cable Assy.
				1	10	50		
Epic Series Voltage and Process Meters								
3.5 Digit LCD								
+5	200mV	—	CDPM541-ND•	37.90	36.01	33.17	DK541	J4C13
	2V	—	CDPM542-ND•	37.90	36.01	33.17	DK542	J4C13
	20V	—	CDPM543-ND•	37.90	36.01	33.17	DK543	J4C13
	200mV	- Amber	CDPM551-ND	47.40	45.03	41.48	DK551	J4C13
	2V	- Amber	CDPM552-ND	47.40	45.03	41.48	DK552	J4C13
	20V	- Amber	CDPM553-ND	47.40	45.03	41.48	DK553	J4C13
	200mV	- Green	CDPM561-ND	47.40	45.03	41.48	DK561	J4C13
	2V	- Green	CDPM562-ND	47.40	45.03	41.48	DK562	J4C13
	20V	- Green	CDPM563-ND	47.40	45.03	41.48	DK563	J4C13
	200mV	- Red	CDPM571-ND	47.40	45.03	41.48	DK571	J4C13
	2V	- Red	CDPM572-ND	47.40	45.03	41.48	DK572	J4C13
	20V	- Red	CDPM573-ND	47.40	45.03	41.48	DK573	J4C13
3.5 Digit Process								
Loop	4-20mA	—	CDPM191-ND•	68.40	64.98	59.85	DK191	—
	4-20mA	- Amber	CDPM192-ND	77.90	74.01	68.17	DK192	—
	4-20mA	- Green	CDPM193-ND	77.90	74.01	68.17	DK193	—
	4-20mA	- Red	CDPM194-ND	77.90	74.01	68.17	DK194	—
3.5 Rangeable								
12/24V	5/10V/200mV	- Amber	CDPM196-ND	77.90	74.01	68.17	DK196	—
	5/10V/200mV	- Green	CDPM197-ND	77.90	74.01	68.17	DK197	—
	5/10V/200mV	- Red	CDPM198-ND	77.90	74.01	68.17	DK198	—
	5/10V/200mV	—	CDPM199-ND•	68.40	64.98	59.85	DK199	—
4.5 Digit LCD								
+5	200mV	—	CDPM741-ND•	47.40	45.03	41.48	DK741	J4C13
	2V	—	CDPM742-ND•	47.40	45.03	41.48	DK742	J4C13
	20V	—	CDPM743-ND•	47.40	45.03	41.48	DK743	J4C13
+5	2V	- Amber	CDPM752-ND	56.90	54.06	49.79	DK752	J4C13
	20V	- Amber	CDPM753-ND	56.90	54.06	49.79	DK753	J4C13
+5	200mV	- Green	CDPM761-ND	56.90	54.06	49.79	DK761	J4C13
	2V	- Green	CDPM762-ND	56.90	54.06	49.79	DK762	J4C13
	20V	- Green	CDPM763-ND	56.90	54.06	49.79	DK763	J4C13
+5	200mV	- Red	CDPM771-ND	56.90	54.06	49.79	DK771	J4C13
	2V	- Red	CDPM772-ND	56.90	54.06	49.79	DK772	J4C13
	20V	- Red	CDPM773-ND	56.90	54.06	49.79	DK773	J4C13
4.5 Digit Process								
Loop	4-20mA	—	CDPM790-ND•	85.50	81.23	74.82	DK790	—
	4-20mA	- Amber	CDPM791-ND	94.06	89.36	82.31	DK791	—
	4-20mA	- Green	CDPM793-ND	94.06	89.36	82.31	DK793	—
	4-20mA	- Red	CDPM794-ND	94.06	89.36	82.31	DK794	—
4.5 Rangeable								
12/24V	5/10V/200mV	- Amber	CDPM796-ND	94.06	89.36	82.31	DK796	—
	5/10V/200mV	- Green	CDPM797-ND	94.06	89.36	82.31	DK797	—
	5/10V/200mV	- Red	CDPM798-ND	94.06	89.36	82.31	DK798	—
	5/10V/200mV	—	CDPM799-ND•	85.50	81.23	74.82	DK799	—

Note: • Non-Backlit

Power Supply for C-Ton Displays



Cable Assembly for C-Ton Displays



Description	Digi-Key Part No.	Price Each			C-Ton Part No.
		1	10	50	
Power Supplies					
5VDC Out, 300mA	CDPM1000-ND	19.90	18.91	17.42	PW2-5
24VDC Out, 100mA	CDPM1002-ND	19.90	18.91	17.42	PW2-24
Cable Assemblies					
10 Pin Connector with Wires 26AWG	CDPM1003-ND	3.00	2.85	2.63	J1C10
13 Pin Connector with Wires 26AWG	CDPM1004-ND	3.00	2.85	2.63	J1C13
13 Pin Connector with Wires 26AWG	CDPM1005-ND	3.00	2.85	2.63	J4C13

Big - Little Digital Panel Meters

Fig. 1

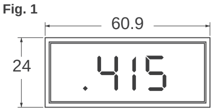
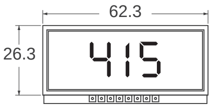


Fig. 2



BL Series Specifications:

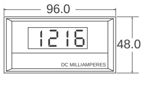
Display • Digits: 3 1/2 digits, 7 segments backlit LCD (1999) • Digit Height: 0.5" (12.7mm) • Polarity: Automatic (-) displayed • Decimal Point: Three positions, external selection • Overload: Three lower digits blank for readings greater than 1999 • Low battery: "Low Bat" indicator for <7.2V (9V power only)

Performance • Accuracy: ±(0.1% rdg + 2 count) with + 5 and ±5V power ± (0.1% rdg + 1 count) with 9V power 2.5 per second • Conversion Rate: 2.5 per second • Common Mode Voltage Range: ± 1V maximum • Common Mode Rejection: > 86db • Zero Adjust: Automatic • Tempco: 100PPM/°C typical

Standard Analog Inputs • Full Scale Range: Choice ±200mV, ±2V, or ±20V (Special ranges and engineering units available) • Configuration: True differential input and references • Ratiometric Operation: Available on models BL-100, -130, -300, -330, -400, -430, -500, -530, -600, and -630 • Protection: 250V DC or 150V RMS continuous 300V intermittent maximum • Bias Current: 1pA typical, 10pA maximum • All backlighting power is + 5VDC

Display	Mounting	DPM Power	Input	Digi-Key Part No.	Price Each			Modutec Part No.
					1	5	10	
Fig. 1 — 13 Pin Terminals Backlit Power 5VDC								
Neg. Red Backlit	Bezel	+5VDC	0 - 2VDC	180-1002-ND	86.94	84.77	82.60	BL-530302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1003-ND	86.94	84.77	82.60	BL-530301-01-U
	Window	+5VDC	0 - 2VDC	180-1004-ND	83.36	81.28	79.20	BL-500302-01-U
	Window	+5VDC	0 - 200mVDC	180-1005-ND	83.36	81.28	79.20	BL-500301-01-U
	Window	9VDC	0 - 2VDC	180-1006-ND	83.36	81.28	79.20	BL-500102-01-U
	Window	9VDC	0 - 200mVDC	180-1007-ND	83.36	81.28	79.20	BL-500101-01-U
Neg. Green Backlit	Window	+5VDC	0 - 2VDC	180-1008-ND	80.96	78.94	76.92	BL-400302-01-U
	Window	+5VDC	0 - 200mVDC	180-1009-ND	80.96	78.94	76.92	BL-400301-01-U
	Window	9VDC	0 - 2VDC	180-1010-ND	80.96	78.94	76.92	BL-400102-01-U
	Window	9VDC	0 - 200mVDC	180-1011-ND	80.96	78.94	76.92	BL-400101-01-U
Pos. Green Backlit	Bezel	+5VDC	0 - 2VDC	180-1012-ND	80.16	78.16	76.16	BL-330302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1013-ND	80.16	78.16	76.16	BL-330301-01-U
	Window	+5VDC	0 - 2VDC	180-1014-ND	77.40	75.47	73.53	BL-300302-01-U
	Window	+5VDC	0 - 200mVDC	180-1015-ND	77.40	75.47	73.53	BL-300301-01-U
	Window	9VDC	0 - 2VDC	180-1016-ND	77.40	75.47	73.53	BL-300102-01-U
	Window	9VDC	0 - 200mVDC	180-1017-ND	77.40	75.47	73.53	BL-300101-01-U
Std. Reflective LCD	Bezel	+5VDC	0 - 20VDC	180-1021-ND	65.60	63.96	62.32	BL-130303-U
	Bezel	+5VDC	0 - 2VDC	180-1022-ND	58.40	56.94	55.48	BL-130302-U
	Bezel	+5VDC	0 - 200mVDC	180-1023-ND	65.60	63.96	62.32	BL-130301-U
	Window	+5VDC	0 - 20VDC	180-1024-ND	62.02	60.47	58.92	BL-100303-U
	Window	+5VDC	0 - 2VDC	180-1025-ND	62.02	60.47	58.92	BL-100302-U
	Window	+5VDC	0 - 200mVDC	180-1026-ND	62.02	60.47	58.92	BL-100301-U
	Window	9VDC	0 - 2VDC	180-1027-ND	62.02	60.47	58.92	BL-100102-U
	Window	9VDC	0 - 200mVDC	180-1028-ND	62.02	60.47	58.92	BL-100101-U
Fig. 2 — Flat Pack								
Std. Reflective LCD	Window	+5VDC	20VDC	180-1018-ND	54.72	53.36	51.99	BL-176303-U
	Window	+5VDC	2VDC	180-1019-ND	54.72	53.36	51.99	BL-176302-U
	Window	+5VDC	200mVDC	180-1020-ND	54.72	53.36	51.99	BL-176301-U
Bezel Kit	—	—	—	180-1001-ND	6.38	6.22	6.07	176-BK-U

Industrial Digital Panel Instruments 2000 Series



Specifications:

Performance: • Conversion Rate: 2.5 per second • Common Mode Rejection: ≥100db 50Hz-60Hz • Tempco: ±200PPM/°C typical except thermocouple inputs which are .1°/ degree zero tempco for selectable process ranges is only ± .2 count/°C • Normal Mode Rejection: ≥40db 50Hz-60Hz • Zero Adjust: Automatic • Warmup: 10 minutes

Environment: • Operating Range: -4°F to 140°F (-20°C to + 60°C) • Storage Range: -22°F to 150°F (-30°C to + 70°C)

Power Options: • 115V + 10%, -15% 50Hz to 400Hz at 2VA • 230V +10%, -15% 50Hz to 400Hz at 2VA

Backlighting Options: • Positive Green (Green Background, Black Characters) • Negative Red (Black Background, Red Characters)

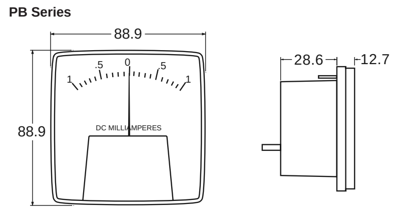
FCC Compliance: • Complies with the class B limits of FCC rules and regulations, part 15, sub part J for conducted and radiated emissions. • Except isolated DC powered which is ≥ 80db 50Hz-60Hz

Display	DPM Power	Input†	Backlit Power††	Digi-Key Part No.	Price Each			Modutec Part No.
					1	5	10	
TRMS (Power) - Universal Selectable True RMS - Power Ranges								
Neg. Red Backlit	115 or 230VAC	250VAC	115 or 230VAC	180-1036-ND	216.96	211.54	206.12	2353-1026-10-U
Neg. Red Backlit		200.0VAC	115 or 230VAC	180-1037-ND	216.96	211.54	206.12	2353-1024-10-U
UPM - Universal Selectable Process, IDC Voltage or DC Current								
Neg. Red Backlit	115VAC	4/20mADC scaled 0/100.0 percent	115VAC	180-1038-ND	187.46	182.78	178.09	2153-3419-04-U
Neg. Red Backlit		10VDC scaled 0/10.00VDC		180-1039-ND	187.46	182.78	178.09	2153-3406-04-U
1/8 DIN								
Neg. Red Backlit	115VAC	Type J Thermocouple	115VAC	180-1040-ND	122.52	119.46	116.40	2053-3480-04-U
Neg. Red Backlit		100 Ohms Pt 1° Resolution		180-1041-ND	122.52	119.46	116.40	2053-3470-04-U
Neg. Red Backlit		0-50AAC/ Avg		180-1042-ND	122.52	119.46	116.40	2053-3439-04-U
Neg. Red Backlit		80-260VAC Avg		180-1043-ND	122.52	119.46	116.40	2053-3429-04-U
Pos. Green Backlit		0-200VDC		180-1044-ND	122.52	119.46	116.40	2033-3404-04-U
Pos. Green Backlit		0-20VDC		180-1045-ND	122.52	119.46	116.40	2033-3403-04-U
Pos. Green Backlit		0-2VDC scaled 0 to 1.999		180-1046-ND	122.52	119.46	116.40	2033-3402-04-U
Pos. Green Backlit		0-200mVDC scaled 0 - 199.9		180-1047-ND	122.52	119.46	116.40	2033-3401-04-U
Non Backlit	Loop Power	4 to 20mADC scaled 0 - 100.0	No Backlight	180-1048-ND	156.22	152.32	148.41	2013-3019-00-U

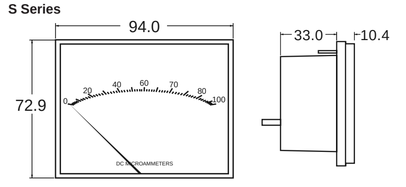
† Rated for use with 5A or 50A external current transformer supplied with DPM.
†† Backlight power must be same as selected DPM power.

Analog Panel Meters

PB Series



S Series

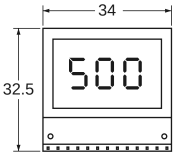


DC Ammeters - Taut band, 50mV, moving coil: Zero left, shunt rated.
DC Voltmeters - Taut band, moving coil: Zero left.
AC Ammeters - Iron vane: Self-contained, 60Hz nominal input (50-400Hz range).
AC Ammeters - Iron vane: transformer rated, 0-5A.
AC Voltmeters - Iron vane Self-contained, 60Hz nominal input (50Hz with slightly reduced accuracy.

Description	Series	Range	Resistance (ohms)	Digi-Key Part No.	Price Each 1	5	10	Modutec Part No.
DC Ammeters Shunt Rated	S	0-25ADC	10	180-1054-ND	67.20	65.52	63.84	R3SS-DAA-025-U
		0-50ADC	10	180-1055-ND	67.20	65.52	63.84	R3SS-DAA-050-U
		0-100ADC	10	180-1056-ND	67.20	65.52	63.84	R3SS-DAA-100-U
	PB	0-25ADC	10	180-1071-ND	67.20	65.52	63.84	R3PBS-DAA-025-U
		0-50ADC	10	180-1072-ND	67.20	65.52	63.84	R3PBS-DAA-050-U
		0-100ADC	10	180-1073-ND	67.20	65.52	63.84	R3PBS-DAA-100-U
DC Voltmeters	S	0-10VDC	1000 per V	180-1057-ND	69.50	67.77	66.03	R3S-DVV-010-U
		0-50VDC	1000 per V	180-1058-ND	69.50	67.77	66.03	R3S-DVV-050-U
		0-100VDC	1000 per V	180-1059-ND	69.50	67.77	66.03	R3S-DVV-100-U
	PB	0-10VDC	1000 per V	180-1074-ND	69.50	67.77	66.03	R3PB-DVV-010-U
		0-50VDC	1000 per V	180-1075-ND	69.50	67.77	66.03	R3PB-DVV-050-U
		0-100VDC	1000 per V	180-1076-ND	69.50	67.77	66.03	R3PB-DVV-100-U
AC Ammeters	S	0-15AAC	0.003	180-1060-ND	71.80	70.01	68.21	R3S-AAC-015-U
		0-25AAC	0.002	180-1061-ND	71.80	70.01	68.21	R3S-AAC-025-U
		0-50AAC	0.001	180-1062-ND	71.80	70.01	68.21	R3S-AAC-050-U
	PB	0-15AAC	0.003	180-1077-ND	71.80	70.01	68.21	R3PB-AAC-015-U
		0-25AAC	0.002	180-1078-ND	71.80	70.01	68.21	R3PB-AAC-025-U
		0-50AAC	0.001	180-1079-ND	71.80	70.01	68.21	R3PB-AAC-050-U
AC Ammeters Trans. Rated	S	0-100AAC	0.022	180-1063-ND	71.80	70.01	68.21	R3S-AACX-100-U
	PB	0-100AAC	0.022	180-1080-ND	71.80	70.01	68.21	R3PB-AACX-100-U
AC Voltmeters	S	0-50VAC	3K	180-1064-ND	76.40	74.49	72.58	R3S-AVC-050-U
		0-150VAC	30K	180-1065-ND	76.40	74.49	72.58	R3S-AVC-150-U
		0-300VAC	30.25K	180-1066-ND	76.40	74.49	72.58	R3S-AVC-300-U
		0-600VAC	114.7K	180-1067-ND	76.40	74.49	72.58	R3S-AVC-600-U
	PB	0-50VAC	3K	180-1081-ND	76.40	74.49	72.58	R3PB-AVC-050-U
		0-150VAC	30K	180-1082-ND	76.40	74.49	72.58	R3PB-AVC-150-U
		0-300VAC	30.25K	180-1083-ND	76.40	74.49	72.58	R3PB-AVC-300-U
		0-600VAC	114.7K	180-1084-ND	76.40	74.49	72.58	R3PB-AVC-600-U

Series	Freq. Range	Input V	Accuracy	Digi-Key Part No.	Price Each 1	5	10	Modutec Part No.
Frequency Meters Pointer Type Electronic								
S	45-65Hz	120VAC	±.6Hz	180-1068-ND	193.56	188.73	183.89	R3S-FRQ-55/120-20-U
	45-55Hz		±.3Hz	180-1069-ND	193.56	188.73	183.89	R3S-FRQ-50/120-10-U
PB	45-65Hz	120VAC	±.6Hz	180-1085-ND	193.56	188.73	183.89	R3PB-FRQ-55/120-20-U
	45-55Hz		±.3Hz	180-1086-ND	193.56	188.73	183.89	R3PB-FRQ-50/120-10-U
	55-65Hz		±.3Hz	180-1087-ND	193.56	188.73	183.89	R3PB-FRQ-60/120-10-U

Miniature Backlit 1000 Series



Specifications:

Display: • Digits: 3 1/2 digits (1999) • Digit Height: 0.3" (7.6mm) • Decimal Point: 3 positions, external selection • Type: 7 Segment Backlit LCD • Polarity: Automatic (-) displayed • Overload: Three lower digits blank for readings greater than 1999

Input: • Full Scale Range: ± 2V or ± 200m VDC • Input Resistance: ± 100 Meg Ohms • Overvoltage Protection: 100V DC or peak AC conditions

Performance: • Accuracy: = (0.25% + 1 count) Maximum • Common Mode Rejection: ≥ 86db 50Hz-60Hz • Zero Adjust: Automatic • Conversion Rate: 2.5 Per Second • Tempco: 100 PPM/°C

Environment: • Operating Range: -0°C to +60°C • Storage Range: -20°C to +70°C

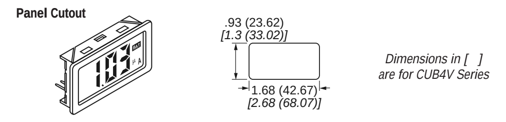
Extended Temperature (option): • Operating Range: -30°C to + 80°C • Storage Range: -40°C to + 85°C

Power Options: • + 5VDC and -5VDC ± 10% @ 150ua DC or 9VDC (7.2 to 12VDC isolated @ 150µADC)

"Note 1: For the battery powered DPM, the input must either be fully isolated from the power source, or, if referenced to the source, the IN LO terminal must be no closer than 2.3V for the 200mV range (3.5V for the 2V range) to either battery terminal."

Display	Mounting	Terminals	DPM Power	Input	Digi-Key Part No.	Price Each 1	5	10	Modutec Part No.
Pos. Red Backlight	Window	Uncased with 13 pins	+5 & -5VDC	0-200mVDC	180-1049-ND	56.26	54.86	53.45	1060-0201-U
Pos. Red Backlight	Window		9VDC	0-200mVDC	180-1050-ND	56.26	54.86	53.45	1060-0101-U
Pos. Red Backlight	Window		Loop Powered	4 to 20mADC	180-1051-ND	155.00	151.13	147.25	1060-0019-U
Pos. Green Backlight	Window		9VDC	0-200mVDC	180-1052-ND	56.26	54.86	53.45	1030-0101-U
Pos. Green Backlight	Window		Loop Powered	4 to 20mADC	180-1053-ND	147.54	143.86	140.17	1030-0019-U

Miniature Display Module D.C. Voltmeter



Dimensions in [ ] are for CUB4V Series

MDMV Series: ***Specifications:*** • **Display:** 3-1/2-digit, .4" (10.2mm) high digits. A minus (-) sign is displayed when voltage is negative • **Decimal Points:** Selectable decimal points are activated at the rear terminal pins to allow the display to be read in tenths, hundredths or thousandths • **Annunciators:** 5 selectable annunciators, BAT, V, A, µ and m are activated at the appropriate rear terminal • **Power Requirements:** 4.8VDC to 6VDC @ 5mA Max. • **Input Range:** 0 to ±199.9m VDC • **Over-range Indication:** Over-range is indicated by a "1" displayed in the most significant digit and the blanking of the three least significant digits • **Reading Rate:** 2 1/2 readings per second • **Common Mode Rejection Ratio:** 70dB • **Input Impedance:** 1000MΩ • **Operating Range:** 0°C to 60°C

CUB4V Series: ***Specifications:*** • LCD, positive reflective or negative transmissive with yellow/green or red backlighting • Four selectable D.C. ranges (0-199.9 mV, 1.999 V, 19.99 V, 199.9 V) • 0.6" (15.24mm) high LCD digits • Built-in scaling provided • Auto-zeroing circuit • Selectable decimal points • Wire connections made via screw clamp type terminals • Fits DIN standard cut-out 2.68" (68mm) x 1.30" (33mm) • NEMA 4X/IP65 sealed front panel bezel • 9 to 28 VDC powered

Description	Digi-Key Part No.	Price Each 1	5	Red Lion Part No.
MDMV Series				
Panel Mount, Reflective Display	RLC000-ND	35.90	35.01	MDMV0000
Panel Mount,Yellow/Green Backlight Display	RLC010-ND	51.40	50.12	MDMV0010
Panel Mount, Red Backlight Display	RLC020-ND	51.40	50.12	MDMV0020
PC Board Mount, Reflective Display	RLC100-ND	35.90	35.01	MDMV0100
PC Board Mount,Yellow/Green Backlight Display	RLC110-ND	51.40	50.12	MDMV0110
PC Board Mount, Red Backlight Display	RLC120-ND	51.40	50.12	MDMV0120
MDM Cable Assembly	RLC70-ND	12.00	11.70	HWK70000
CUB4V Series				
DC Voltmeter	RLC4V0-ND	89.00	—	CUB4V000
DC Voltmeter,Yellow/Green Backlight Display	RLC4V1-ND	99.00	—	CUB4V010
DC Voltmeter, Red Backlight Display	RLC4V2-ND	99.00	—	CUB4V020
Micro Line/Sensor Power Supply	RLCMLPS-ND	31.00	—	MLPS0000

SMT Incandescent Lamps

Fig. 1 — CSD4

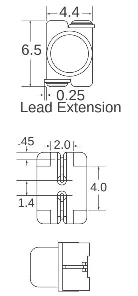


Fig. 2 — CTB1

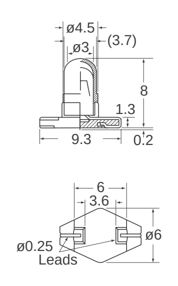
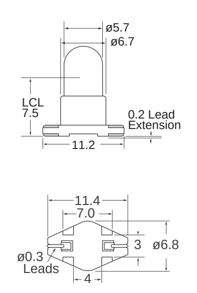


Fig. 3 — ETB1



Type Part Numbers	Style Type	Size	Size mm	Height Ref.	5 Volts Max. mA	5 Volts Max. MSCP	14 Volts Max. mA	14 Volts Max. MSCP
CSD4	Base & Filter	T-1	T-3.0mm	5.5	115	.150	N/A	N/A
CTB1	Thru or Top Mnt.	T-1	T-3.0mm	9.0	125	.220	N/A	N/A
ETB1	Thru or Top Mnt.	T-1 1/2	T-4.7mm	12.7	180	.300	140	.950

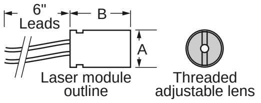
Fig.	Description	Voltage (v)	Current (A)	MSCP	Life (Hrs)	Digi-Key Part No.*	Cut Tape Pricing 1	10	100	Digi-Key Part No.*	Tape & Reel Size	Tape & Reel Pricing
1	T-1(3mm)SM	5.0	.115	.150	20,000	289-108☐-1-ND	1.23	10.50	87.50	289-108☐-2-ND	1,500	581.00/M
2	T-1 (3mm)TB	13.0	.045	.150	5,000	289-109☐-1-ND	1.23	10.50	87.50	289-109☐-2-ND	900	522.90
3	T-1 3/4 (5mm)TB	14.0	.140	.950	7,000	289-110☐-1-ND	1.23	10.50	87.50	289-110☐-2-ND	450	261.45

*For ☐ in Digi-Key Part No., choose one of the following: 1=Red; 2=Yellow; 3=Green 4=Blue/Green (only available in CSD4 series); 5=Blue; 6=White.

U.S. - LASERS, Inc.

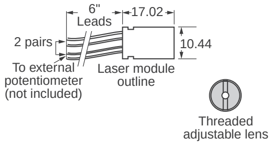
Adjustable Focus Laser Diode Modules

Fig. 1 — Adjustable Focus Laser Module 28 AWG



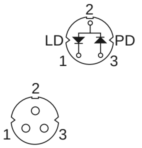
	10.4mm	6.4mm
Po:	5mW	
Class:	IIIa	
Supply Voltage, Up to 12V:	2.7-3 Continuous	
Dimension A:	10.44mm	6.4mm
Dimension B:	17.02mm	17.25mm

Fig. 2 — Adjustable Output Laser Module



Po = 1 to 4.8mW
Recommended Pot = approx. 150K to 500K

Fig. 3 — Visible Laser Diode

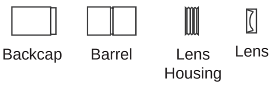


Po: 5mW
Class IIIa

Wide Spectrum Range, Standard Pinout

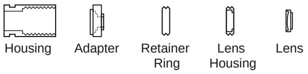
1. Laser cathode
2. Common case(laser anode)
3. PD anode (standard pinout)

Fig. 4 — 6.4mm Laser Diode Housing Kit



Includes: Backcap, barrel, lens housing and lens

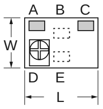
Fig. 5 — 10.4mm Laser Diode Housing Kit



Includes: Housing/Heatsink, 5.6mm to 9mm Adapter, Retaining Ring, Adjustable Focus Lens

Fig. 6 — APC Laser Power Supply

Adjustable Output Power via On-Board Potentiometer



▨ ⬚ Soldering pads
A: Laser diode cathode
B: Laser/pd common (+)
C: Photodiode anode
D: Potentiometer
E: Negative lead (-)

	Dimensions W	L
10.4mm	5.4	7.8
6.4mm	9.0	5.0

Fig.	Description	Wave-length (nm)	Iop (mA)	Size (mm)	Digi-Key Part No.	Price Each	U.S. Laser Part No.
1	Visible Laser Module*	660	10-30	17.02 x 10.44	38-1002-ND	32.66	M6605I
1	Visible Laser Module*	650	25-40	17.02 x 10.44	38-1003-ND	37.00	M6505I
1	Visible Laser Module*	640	55-70	17.02 x 10.44	38-1004-ND	72.00	M6405I
1	Visible Laser Module*	635	45-70	17.02 x 10.44	38-1017-ND	76.00	M6355I
1	Infrared Laser Module*	780	45-70	17.02 x 10.44	38-1018-ND	56.00	M7805I
1	Infrared Laser Module*	808	60-70	17.02 x 10.44	38-1005-ND	64.00	M8085I
1	Infrared Laser Module*	850	45-65	17.02 x 10.44	38-1019-ND	68.00	M8505I
1	Visible Laser Micro Module*	660	12-30	17.25 x 6.4	38-1020-ND	52.00	MM6605I
1	Visible Laser Micro Module*	650	25-40	17.25 x 6.4	38-1021-ND	57.00	MM6505I
1	Visible Laser Micro Module*	640	55-70	17.25 x 6.4	38-1022-ND	92.00	MM6405I
1	Visible Laser Micro Module*	635	45-70	17.25 x 6.4	38-1023-ND	96.00	MM6355I
1	Infrared Laser Micro Module*	780	45-70	17.25 x 6.4	38-1024-ND	76.00	MM7805I
1	Infrared Laser Micro Module*	808	60-70	17.25 x 6.4	38-1025-ND	80.00	MM8085I
1	Infrared Laser Micro Module*	850	45-65	17.25 x 6.4	38-1026-ND	88.00	MM8505I
2	Adj. Output Visible Laser Module*	660	12-30	17.02 x 10.44	38-1010-ND	52.00	EPM6605I
2	Adj. Output Visible Laser Module*	650	25-40	17.02 x 10.44	38-1011-ND	56.00	EPM6505I
2	Adj. Output Visible Laser Module*	640	55-70	17.02 x 10.44	38-1012-ND	112.00	EPM6405I
2	Adj. Output Visible Laser Module*	635	45-70	17.02 x 10.44	38-1013-ND	116.00	EPM6355I
2	Adj. Output Infrared Laser Module*	780	45-70	17.02 x 10.44	38-1014-ND	96.00	EPM7805I
2	Adj. Output Infrared Laser Module*	808	60-70	17.02 x 10.44	38-1015-ND	100.00	EPM8085I
2	Adj. Output Infrared Laser Module*	850	45-65	17.02 x 10.44	38-1016-ND	108.00	EPM8505I
3	Visible Laser Diode	660	12-20	5.6	38-1006-ND	9.00	D6605I
3	Visible Laser Diode	650	25-40	5.6	38-1007-ND	13.00	D6505I
3	Visible Laser Diode	640	55-70	5.6	38-1008-ND	30.00	D6405I
3	Visible Laser Diode	635	45-70	5.6	38-1027-ND	30.00	D6355I
3	Infrared Laser Diode	780	45-70	5.6	38-1028-ND	24.00	D7805I
3	Infrared Laser Diode	808	60-70	5.6	38-1029-ND	28.00	D8085I
3	Infrared Laser Diode	850	45-65	5.6	38-1030-ND	32.00	D8505I
4	Housing Kit, 6.4mm................................			17.25 x 6.4	38-1032-ND	20.00	HK-6.4
5	Housing Kit, 10.4mm			17.02 x 10.44	38-1000-ND	18.00	HK-10.4
6	Laser Driver Circuit (APC) for 10.4mm Housing ...			5.4 x 7.8	38-1009-ND†	14.00	NS102-200K
6	Laser Driver Circuit (APC) for 6.4mm Housing			5.0 x 9.0	38-1031-ND†	14.00	NS102A-200K
—	5.6mm to 9mm Adapter, Non-threaded				38-1033-ND	4.00	AD 5.6-9MM
—	5.6mm to 9mm Adapter, Threaded.................................				38-1001-ND	5.00	THAD 5.6-9mm

* Module denotes complete assembly.
† For use with 660, 650, 640 and 635nm diodes only.

SHARP MICROELECTRONICS OF THE AMERICAS

Laser Diodes

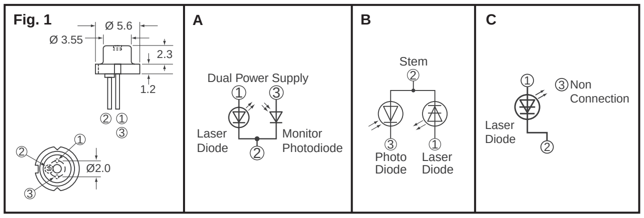


Fig.	Optical Power Output	Oper. Current (Typ.)	Oper. Volt. (Typ.)	Wave Length (Typ.)	Half Intensity Typ.† Parallel	Perpendicular	Oper. Temp. C	Digi-Key Part No.	Price Each 1	10
1A	7mW	33mA	2.2	654nm	8.5°	29°	-10° to +80°	425-1805-ND	13.56	11.63
	10mW	40mA	2.2	654nm	8.5°	29°	-10° to +70°	425-1806-ND	14.79	12.68
1B	50mW	80mA	2.8	654nm	8.5°	21°	-5° to +70°	425-1807-ND	74.03	63.45
1C	120mW	141mA	2.1	784nm	8.7°	16°	-10° to +65°	425-1809-ND	24.76	21.23

† Angle at 50% peak intensity (full-width at half-maximum). Parallel to the junction plane (X-Z plane) Perpendicular to the junction plane (Y-Z plane)

LUMEX

Visible and Infrared Diodes

67-1542-ND
Lumex Master Catalog
CD-ROM **$1.95**

Fig. 1

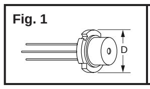


Fig. 2

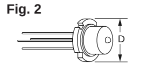
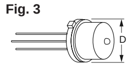


Fig. 3



Wave-length λ Typ. (nm)	Output Power (mW) max.	Current (mA) Ith	Iop	Oper. Voltage (V)	Operating Temp. (°C)	Dia. D (mm)	Digi-Key Part No.	Price Each	Lumex Part No.
Visible Laser Diodes — Fig. 1									
650	5	20	35	2.2	-10° to +40°	5.60	67-1500-ND	5.37	OED-LDP65001E
650	5	18	25	2.1	-10° to +70°	5.60	67-1501-ND	15.00	OED-LD65001E
658	50	40	125	2.5	-10° to +40°	5.60	67-1646-ND	136.90	OED-LDH66003E
Infrared Laser Diodes — Fig. 2									
1550	5 (CW)	8	—	1.2	-40° to +85°	5.60	67-1504-ND	124.84	OED-LDC15001E

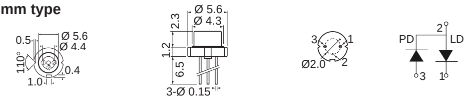
Detection Range λ (nm)	Rise/Fall Time (ns)	Forward Current (mA)	Reverse Voltage (V)	Operating Temp. (°C)	Diameter D (mm)	Digi-Key Part No.	Price Each	Lumex Part No.
Pin Photo Diode — Fig. 3								
1100/1600	0.3	2	25	-40° to +85°	5.35	67-1505-ND	35.26	OED-PPD11075G-B

Panasonic

Visible Red Laser Diodes

FEATURES: • Oscillating wavelength 670nm: Luminous efficiency 2000 times a conventional laser • Low threshold oscillation: 25mA • Stable single transverse oscillation • Low astigmatism characteristics: ≤10µm. ***SPECIFICATIONS:*** **Max. Optical Power Output:** 5mW. **Oscillating Wavelength:** 670nm. **Threshold Current:** 25mA. **Operating Current:** 35mA. **LD Operating Voltage:** 2.5V. **Radiation Horizontal Angle:** 8°. **Radiation Perpendicular Angle:** 30°

5.6mm type



1 LD cathode
2 Com. term. (LD anode)
3 Mon. PD anode

Digi-Key Part No.	Price Each 1	10	100	250	Panasonic Part No.
P460-ND	33.75	30.38	28.35	26.33	LN9R05MS

Quarton

Visible Laser Diode Modules

FEATURES: • Built-in driver circuit. Small size • Class IIIa laser product • Operating Temperature: +10°C to +40°C • Storage Temperature Range: -20°C to +65°C • Typical Operating Voltage: 3.0V

Fig. 1

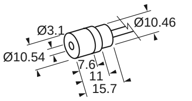


Fig. 2

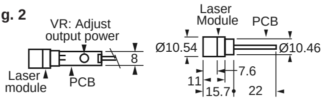


Fig. 3

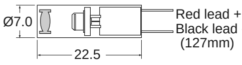


Fig. 4 — Line Generator

Beam Angle: 80°

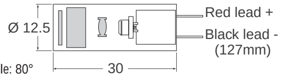


Fig.	Emission Wavelength Typ. (nm)	Cw Optical Power (mW)	Operating Current (mA)	Digi-Key Part No.	Price Each 1	10	100
1	655	3±1	50±15	VLM-650-01LPA-ND	30.80	27.72	25.88
	635	3±1	50±15	VLM-635-01LPA-ND	70.40	63.36	59.14
2	655	≤5	50±15	VLM-650-02LPA-ND	35.20	31.68	29.57
	635	≤5	50±15	VLM-635-02LPA-ND	76.67	69.00	64.40
3	650	≤ 2.5	40±15	VLM-650-003-LPA-ND	19.80	17.82	16.64
4	650	≤ 3	30±15	VLM-650-27-LPA-ND	52.95	47.66	44.48

LUMEX

LED 7-Segment Displays

67-1542-ND
Lumex Master Catalog
CD-ROM.................... **$1.95**

Fig. 1 — Surface Mount

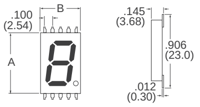


Fig. 2

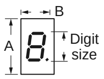


Fig. 3

Only .56" (14.20mm) and .80" (20.32mm) have active decimal points.

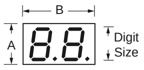


Fig. 4

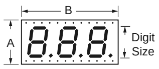


Fig. 5

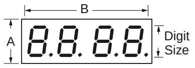


Fig. 6 — Right Angle

Multiplexed

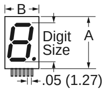
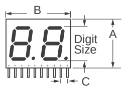


Fig. 7 — Right Angle

Multiplexed.
Only .56" (14.20mm) has decimal points.



Size	No. of Pins	Dim. C In. (mm)
.56"	10	.10 (2.49)
.30"	9	.05 (1.27)

Surface Mount 7-Segment Displays

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions - Inch (mm) A x B	VF (V)	If (mA)	Io (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Cut Tape Price Each 1	10	100	T &R Pricing* 1,000	Lumex Part No. Common Anode	Lumex Part No. Common Cathode
1	Red	.56 (14.22)	.748 x .50 (19.0 x 12.70)	2.1	10	3200	67-1651-1-ND	67-1652-1-ND	4.04	3.54	3.03	1676.60	LDS-SMA5604RD-TR	LDS-SMC5604RD-TR
	Green	.56 (14.22)	.748 x .50 (19.0 x 12.70)	2.2	10	1800	67-1649-1-ND	67-1650-1-ND	3.89	3.41	2.92	1613.52	LDS-SMA5602RD-TR	LDS-SMC5602RD-TR

*For Tape & Reel Part No., change -1 to -2

Through-Hole 7-Segment Displays

Fig.	Emitted Color	Digit Size In. (mm)	Dimensions - Inch (mm) A x B	VF (V)	If (mA)	Io (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	10	100	Lumex Part No. Common Anode	Lumex Part No. Common Cathode
2	Red/Orng	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.0	10	5600	67-1403-ND	67-1406-ND	1.57	1.43	1.23	LDS-A304RI	LDS-C304RI
	Green	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.2	10	3500	67-1404-ND	67-1407-ND	1.57	1.43	1.23	LDS-A302RI	LDS-C302RI
	Yellow	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.1	10	3500	67-1405-ND	67-1408-ND	1.57	1.43	1.23	LDS-A303RI	LDS-C303RI
	Super-Red	.30 (7.62)	.75 x .40 (19.05 x 10.16)	1.8	10	9800	67-1413-ND	67-1414-ND	2.31	2.10	1.81	LDS-A306RI	LDS-C306RI
2	Red/Orng	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.0	10	2250	67-1415-ND	67-1417-ND	1.84	1.68	1.45	LDS-A324RI	LDS-C324RI
	Green	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.2	10	2250	67-1416-ND	67-1418-ND	1.84	1.68	1.45	LDS-A322RI	LDS-C322RI
2	Red/Orng	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.0	10	3900	67-1431-ND	67-1434-ND	1.57	1.43	1.23	LDS-A414RI	LDS-C414RI
	Green	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.2	10	2500	67-1432-ND	67-1435-ND	1.57	1.43	1.23	LDS-A412RI	LDS-C412RI
	Yellow	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.1	10	2500	67-1433-ND	67-1436-ND	1.57	1.43	1.23	LDS-A413RI	LDS-C413RI
	Super-Red	.43 (10.92)	.74 x .50 (18.90 x 12.60)	1.8	10	12300	67-1445-ND	67-1446-ND	2.31	2.10	1.81	LDS-A416RI	LDS-C416RI
2	Red/Orng	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.0	10	3900	67-1451-ND	67-1453-ND	1.84	1.68	1.45	LDS-A504RI	LDS-C504RI
	Green	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.2	10	3900	67-1452-ND	67-1454-ND	1.84	1.68	1.45	LDS-A502RI	LDS-C502RI
2	Red/Orng	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.0	10	3900	67-1463-ND	67-1466-ND	1.57	1.43	1.23	LDS-A514RI	LDS-C514RI
	Green	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.2	10	3900	67-1464-ND	67-1467-ND	1.57	1.43	1.23	LDS-A512RI	LDS-C512RI
	Yellow	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.1	10	3900	67-1465-ND	67-1468-ND	1.57	1.43	1.23	LDS-A513RI	LDS-C513RI
	Super-Red	.56 (14.22)	.75 x .48 (19.05 x 12.19)	1.8	10	13300	67-1475-ND	67-1476-ND	2.31	2.10	1.81	LDS-A516RI	LDS-C516RI
2	Red/Orng	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.0	10	5600	67-1477-ND	67-1480-ND	2.28	2.08	1.79	LDS-A814RI	LDS-C814RI
	Green	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.2	10	2500	67-1478-ND	67-1481-ND	2.28	2.08	1.79	LDS-A812RI	LDS-C812RI
	Yellow	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.1	10	2500	67-1479-ND	67-1482-ND	2.28	2.08	1.79	LDS-A813RI	LDS-C813RI
	Super-Red	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	1.8	10	15000	67-1483-ND	67-1484-ND	3.14	2.85	2.46	LDS-A816RI	LDS-C816RI
2	Red/Orng	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.0	10	9800	67-1485-ND	67-1487-ND	3.08	2.80	2.41	LDS-AA14RI	LDS-CA14RI
	Green	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.4	10	6300	67-1486-ND	67-1488-ND	3.08	2.80	2.41	LDS-AA12RI	LDS-CA12RI
2	Red/Orng	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.0	10	9000	67-1489-ND	67-1491-ND	9.46	8.60	7.40	LDS-AD14RI	LDS-CD14RI
	Green	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.4	10	6300	67-1490-ND	67-1492-ND	9.46	8.60	7.40	LDS-AD12RI	LDS-CD12RI
	Super-Red	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	6.8	10	22500	67-1493-ND	67-1494-ND	10.84	9.85	8.48	LDS-AD16RI	LDS-CD16RI
3	Red/Orng	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.0	10	3900	67-1409-ND†	67-1411-ND†	2.50	2.28	1.96	LDD-E304NI	LDD-F304NI
	Green	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.2	10	3900	67-1410-ND†	67-1412-ND†	2.50	2.28	1.96	LDD-E302NI	LDD-F302NI
3	Red/Orng	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.0	10	3900	67-1437-ND	67-1438-ND	2.39	2.18	1.88	LDD-A404NI	LDD-C404NI
	Green	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.2	10	3900	67-1419-ND	67-1421-ND	2.39	2.18	1.88	LDD-A402NI	LDD-C402NI
	Yellow	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.1	10	3900	67-1420-ND	67-1422-ND	2.39	2.18	1.88	LDD-A403NI	LDD-C403NI
	Super-Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	1.8	10	6300	67-1447-ND	67-1448-ND	3.69	3.35	2.89	LDD-A406NI	LDD-C406NI
3	Red/Orng	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.0	10	3900	67-1455-ND	67-1458-ND	2.39	2.18	1.88	LDD-A514RI	LDD-C514RI
	Green	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.2	10	3900	67-1456-ND	67-1459-ND	2.39	2.18	1.88	LDD-A512RI	LDD-C512RI
	Yellow	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.1	10	3900	67-1457-ND	67-1460-ND	2.39	2.18	1.88	LDD-A513RI	LDD-C513RI
	Super-Red	.56 (14.22)	.75 x .98 (19.05 x 24.89)	1.8	10	13300	67-1461-ND	67-1462-ND	3.69	3.35	2.89	LDD-A516RI	LDD-C516RI
3	Red/Orng	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.0	10	5600	67-1469-ND	67-1472-ND	3.99	3.63	3.12	LDD-A814RI	LDD-C814RI
	Green	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.2	10	2500	67-1470-ND	67-1473-ND	3.99	3.63	3.12	LDD-A812RI	LDD-C812RI
	Yellow	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.1	10	2500	67-1471-ND	67-1474-ND	3.99	3.63	3.12	LDD-A813RI	LDD-C813RI
4	Red/Orng	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.1	10	5600	67-1423-ND	67-1425-ND	5.09	4.63	3.98	LDT-A514RI	LDT-C514RI
	Green	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.2	10	3500	67-1424-ND	67-1426-ND	5.09	4.63	3.98	LDT-A512RI	LDT-C512RI
5	Red/Orng	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.0	10	5000	67-1427-ND†•	—	7.40	6.73	5.79	LDQ-M284RI	—
	Green	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.2	10	2200	67-1428-ND†•	—	7.40	6.73	5.79	LDQ-M282RI	—
	Yellow	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.1	10	3000	67-1429-ND†•	—	7.40	6.73	5.79	LDQ-M283RI	—
	Super-Red	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	1.8	10	9000	67-1430-ND†•	—	14.16	12.88	11.08	LDQ-M286RI	—
5	Red/Orng	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.1	10	3900	67-1439-ND†	67-1442-ND†	7.40	6.73	5.79	LDQ-M514RI	LDQ-N514RI
	Green	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.2	10	3900	67-1440-ND†	67-1443-ND†	7.40	6.73	5.79	LDQ-M512RI	LDQ-N512RI
	Yellow	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.1	10	3900	67-1441-ND†	67-1444-ND†	7.40	6.73	5.79	LDQ-M513RI	LDQ-N513RI
	Super-Red	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	1.8	10	12000	67-1449-ND†	67-1450-ND†	7.40	6.73	5.79	LDQ-M516RI	LDQ-N516RI
6	Red	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.1	10	3400	67-1512-ND†	67-1513-ND†	1.98	1.80	1.55	LDS-M514RI-RA	LDS-N514RI-RA
	Green	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.1	10	2250	67-1514-ND†	67-1515-ND†	1.98	1.80	1.55	LDS-M512RI-RA	LDS-N512RI-RA
7	Red	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.0	10	3900	67-1516-ND†‡	67-1517-ND†‡	3.38	3.08	2.65	LDD-E304NI-RA	LDD-F304NI-RA
	Green	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.0	10	3900	67-1518-ND†‡	67-1519-ND†‡	3.38	3.08	2.65	LDD-E302NI-RA	LDD-F302NI-RA
	Red	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.0	10	3900	67-1520-ND†	67-1521-ND†	3.33	3.03	2.61	LDD-M514RI-RA	LDD-N514RI-RA
	Green	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.2	10	3900	67-1522-ND†	67-1523-ND†	3.33	3.03	2.61	LDD-M512RI-RA	LDD-N512RI-RA

† Multiplexed Display • Inactive colon on display ‡ Non standard segment connections

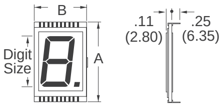
Large Liquid Crystal 7-Segment Displays

Digit Size Inch (mm)	Dim. - Inch (mm) A x B	Driving Method	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1.36 (34.54)	1.97 x 1.30 (50.00 x 33.00)	Static, 1/2 Bias	67-1506-ND	4.65	3.88	3.10	LCD-S101D14TR
2.21 (56.13)	3.00 x 2.20 (76.20 x 55.88)	Static	67-1507-ND	10.56	8.80	7.04	LCD-S101D22TR
2.99 (76.00)	4.03 x 3.00 (102.40 x 76.20)	Static	67-1508-ND	17.66	14.13	12.37	LCD-S101D30TR
4.00 (101.60)	4.83 x 3.20 (122.56 x 81.28)	Static, 1/2 Bias	67-1509-ND	22.86	18.29	16.01	LCD-S101D40TR

SPECIFICATIONS:

- **Fluid Type:** TN
- **Background Color:** Gray
- **Viewing Direction:** 6:00
- **Display Mode:** Reflective
- **Operating Voltage:** 3.0 to 5.0 VAC
- **Operating Temperature:** 0°C to +50°C
- **Storage Temperature:** -20°C to +70°C
- Can be driven with the CD4543BE

Note: 4" display does not have decimal point. Pin count varies with display height.



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LUMEX LEDs

67-1542-ND
Lumex Master Catalog
CD-ROM **$1.95**

Fig. 1

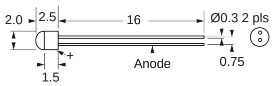
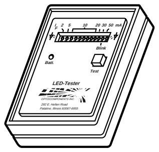


Fig. 2



Features:
- Allows quick testing of LEDs at 2, 5, 10, 20, 30, or 50 mA drive current levels with the push of a button.
- Requires: 9 Volt Battery (not included).

Fig. 3

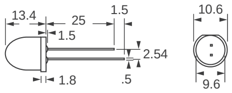


Fig. 4

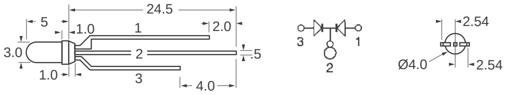


Fig.	LED Dia. (mm)	Emitted Color	Oper Current (mA)	Oper Type Volt(v)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
				Ceramic Stem LEDs					
1	2	Orange/Red	20	2.0	67-1197-ND	1.02	.85	.68	SSL-LX203CIT
	2	Green	20	2.1	67-1198-ND	1.02	.85	.68	SSL-LX203CGT
	2	Yellow	20	2.1	67-1199-ND	1.02	.85	.68	SSL-LX203CYT
	2	Red	20	1.6	67-1200-ND	1.26	1.05	.84	SSL-LX203CSRT
2	LED Tester Box......................................				67-1398-ND	38.00	—	—	LED Tester Box

Fig.	Emitted Color	Epoxy Lens Color	Typical mCD Intensity @ 20mA If	Emission Total Angle	Peak Wave-length	Vf @ 20mA If Typ.	Max.	Steady If Max.	Digi-Key Part No.	Price Each 1	10	25	Lumex Part No.
					10MM Mega-Brite Lites								
3	Or/Red	Clear	3000	18°	620nm	1.8	2.4	25mA	67-1399-ND	2.37	1.98	1.78	SSL-LX100133XOC
	Green	Clear	500	18°	568nm	2.1	2.7	25mA	67-1400-ND	.72	.60	.54	SSL-LX100133XGC
	Yellow	Clear	2000	18°	590nm	1.8	2.4	25mA	67-1401-ND	2.61	2.18	1.96	SSL-LX100133XYC/B

Fig.	Color Pin 1	Pin 3	Vf	Io (mcd)	View Angle	If (mA)	Digi-Key Part No.	Price Each 1	25	100	250	Lumex Part No.
					Bi-Color LEDs							
4	Green	Yellow	2.0	30/30	60°	20	67-1329-ND	.75	.63	.51	.44	SSL-LX3059GYW
	Red	Green	2.0	35/35	60°	20	67-1327-ND	.75	.63	.51	.44	SSL-LX3059IGW
	Red	Yellow	2.0	40/30	60°	20	67-1328-ND	.75	.63	.51	.44	SSL-LX3059IYW

Low Battery Indicators

Emitted Color: Red **Wavelength (NM):** 660
Intensity: 3mcd **Standby Current:** 5µA

Fig. 1

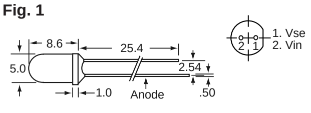


Fig. 2

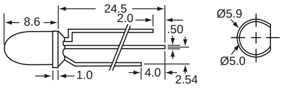


Fig. 3

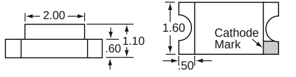


Fig. 4

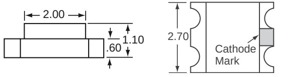


Fig.	Detection Voltage (V)	View-ing Angle	Digi-Key Part No.	Cut Tape Price Each 1	10	25	100	Lumex Part No.
1	2.5	60°	67-1195-ND	1.11	—	.93	.74	SSL-LX5093LBI-SRD
2	3.75 - 7.5	60°	67-1196-ND	1.44	—	1.20	.96	SSL-LX5099LBI-SRD
3	2.5	140°	67-1193-1-ND	1.80	1.58	—	1.35	SML-LX1206LBI-SRD
4	3.75 - 7.5	140°	67-1194-1-ND	2.28	2.00	—	1.71	SML-LX1210LBI-SRD

Infrared LEDs

Fig. 1

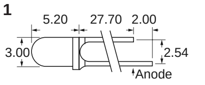


Fig. 2

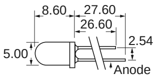
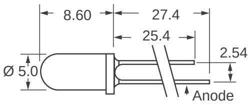


Fig.	LED Dia. (mm)	Peak Wave-Length	Lens Color	Oper. Curr. (mA)	Typ. Forward Voltage	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	3	940 nm	Clear	60	1.2	67-1000-ND	.25	.23	.20	OED-EL-8L
2	5	940 nm	Clear	100	1.5	67-1001-ND	.27	.25	.22	OED-EL-1L2

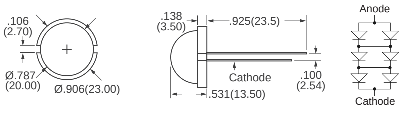
T-1 3/4 Flashing LED Lamps



Features:
- Operating Voltage: 3.0 to 14.0
- Blinking Frequency: 1.5 to 2.5Hz
- Operating Temperature Range: -55°C to 100°C

Color	Color Source	Io @ VF=9V (mcd)	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
Red/Diff.	Brt. Red	10.0	40°	67-1499-ND	.93	.78	.62	SSL-LX5093BSRD
Dark Red/Diff.	Red	4.0	40°	67-1497-ND	.84	.71	.57	SSL-LX5093BHD
Red/Diff.	Red	8.0	40°	67-1498-ND	.84	.71	.57	SSL-LX5093BID
Green/Diff.	Green	8.0	40°	67-1496-ND	.84	.71	.57	SSL-LX5093BGD
Yellow/Diff.	Yellow	8.0	40°	67-1495-ND	.84	.71	.57	SSL-LX5093BYD

20mm 6-Element LED Dome



Color	Wave-length λ (nm)	Vf Typ. (V)	If Max. (mA)	Io @ If = 20mA (mcd)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
Green	565	6.0	25	25	67-1526-ND	1.74	1.45	1.16	SSL-LX20R6GD
Red	635	5.7	30	35	67-1527-ND	1.74	1.45	1.16	SSL-LX20R6ID
Red	660	5.1	30	60	67-1528-ND	2.22	1.85	1.48	SSL-LX20R6SRD
Yellow	585	5.85	30	23	67-1529-ND	1.74	1.45	1.16	SSL-LX20R6YD

PC Mount LED Arrays / Light Bars

Fig. 1

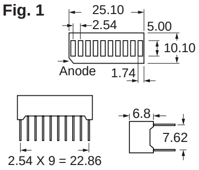


Fig. 2

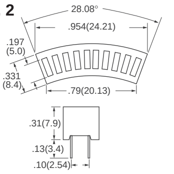


Fig. 3

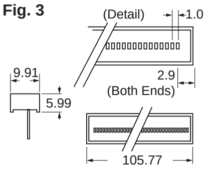


Fig. 4

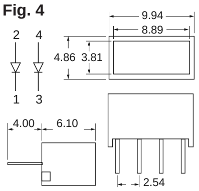


Fig. 5

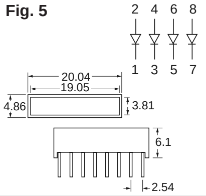


Fig. 6

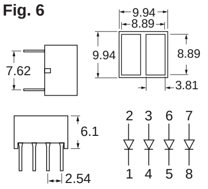


Fig. 7

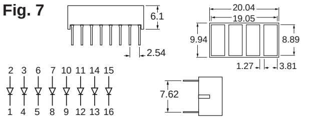


Fig. 8

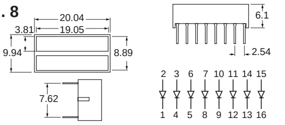


Fig. 9

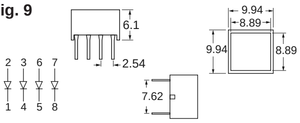


Fig. 10

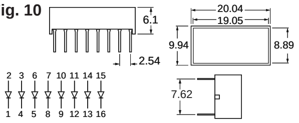


Fig.	Emitted Color	Vf	Io (mcd)	If (mA)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1	Green	2.1	10	25	67-1008-ND	2.85	2.38	1.90	SSA-LXB10GW-GF/LP
1	Red	2.1	4	30	67-1009-ND	2.13	1.78	1.42	SSA-LXB10HW-GF/LP
1	Red	2.1	10	30	67-1010-ND	2.85	2.38	1.90	SSA-LXB10IW-GF/LP
2	Green	2.1	10	30	67-1524-ND	3.90	3.25	2.60	SSA-LXB10GW-10652
2	Red	1.7	40	30	67-1525-ND	6.72	5.60	4.48	SSA-LXB10SRW-10652
3	Red	2.3	60	100(Ip)	67-1011-ND	58.06	51.23	47.81	SSA-LXB8825
3	Green	2.3	70	100(Ip)	67-1012-ND	58.06	51.23	47.81	SSA-LXB8835
4	Red	2.1	25	30	67-1013-ND	.91	.76	.61	SSB-LX2300IW
5	Red	2.1	50	30	67-1014-ND	1.36	1.14	.91	SSB-LX2350IW
4	Yellow	2.1	18	30	67-1015-ND	.91	.76	.61	SSB-LX2400YW
5	Yellow	2.1	38	30	67-1016-ND	1.36	1.14	.91	SSB-LX2450YW
4	Green	2.1	25	25	67-1017-ND	.91	.76	.61	SSB-LX2500SGW
6	Red	2.1	25	30	67-1018-ND	1.49	1.25	1.00	SSB-LX2600IW
7	Red	2.1	25	30	67-1019-ND	2.36	1.97	1.57	SSB-LX2620IW
8	Red	2.0	50	30	67-1020-ND	2.36	1.97	1.57	SSB-LX2635IW
9	Red	2.1	45	30	67-1021-ND	1.49	1.25	1.00	SSB-LX2655IW
10	Red	2.1	80	30	67-1022-ND	2.36	1.97	1.57	SSB-LX2685IW
6	Yellow	2.1	18	30	67-1023-ND	1.49	1.25	1.00	SSB-LX2700YW
7	Yellow	2.1	18	30	67-1024-ND	2.36	1.97	1.57	SSB-LX2720YW
8	Yellow	2.1	40	30	67-1025-ND	2.36	1.97	1.57	SSB-LX2735YW
9	Yellow	2.1	35	30	67-1026-ND	1.49	1.25	1.00	SSB-LX2755YW
10	Yellow	2.1	70	30	67-1027-ND	2.36	1.97	1.57	SSB-LX2785YW
9	Red/Yel	2.1	25	30	67-1028-ND	2.49	2.08	1.66	SSB-LX2950IYW
9	Red/Grn	2.1	25	30/25	67-1029-ND	2.49	2.08	1.66	SSB-LX2965IGW
4	Red	1.7	40	30	67-1030-ND	1.04	.87	.70	SSB-LXA100SRW
5	Red	1.7	80	30	67-1031-ND	1.53	1.28	1.03	SSB-LXB100SRW
9	Red	1.7	80	30	67-1032-ND	2.35	1.96	1.57	SSB-LXC100SRW
6	Red	1.7	40	30	67-1033-ND	2.35	1.96	1.57	SSB-LXD100SRW
7	Red	1.7	40	30	67-1034-ND	2.72	2.27	1.81	SSB-LXE100SRW
8	Red	1.7	80	30	67-1035-ND	2.72	2.27	1.81	SSB-LXF100SRW
10	Red	1.7	150	30	67-1036-ND	2.72	2.27	1.81	SSB-LXH100SRW

LEDs

67-1542-ND Lumex Master Catalog CD-ROM **$1.95**

Fig. 1

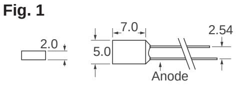


Fig. 2

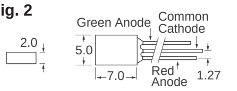


Fig. 3

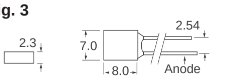


Fig. 4

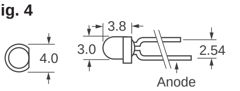


Fig. 5

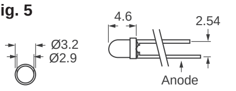


Fig. 6

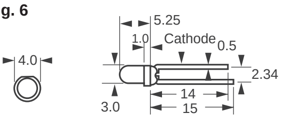


Fig. 7

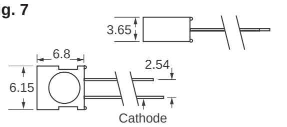


Fig. 8

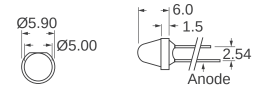


Fig. 9

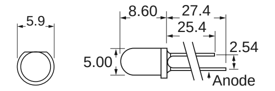


Fig. 10

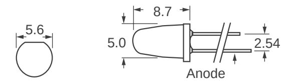


Fig. 11

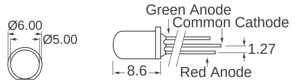


Fig. 12

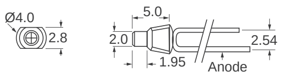
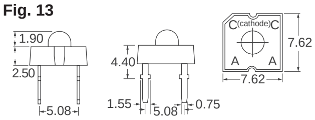


Fig. 13



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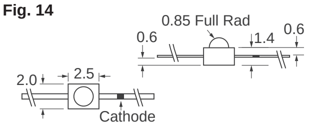


Fig. 15

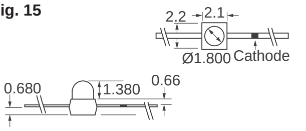


Fig. 16

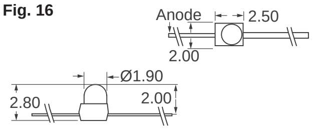


Fig. 17 (RGB)

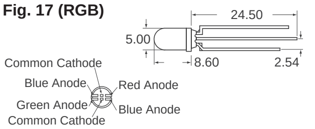


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Lumex Part No.
1	Rect. (2x5mm)	Sup. Red	Red Diff.	660	1.7	30	80	80	67-1049-ND	1.78	15.98	71.00	SSL-LX2573SRD
		Red	Red Diff.	635	2.0	30	10	110	67-1047-ND	1.10	9.90	44.00	SSL-LX2573ID
		Amber	Amber Diff.	605	2.1	30	5	120	67-1045-ND	1.50	13.50	60.00	SSL-LX2573AD
		Yellow	Yellow Diff.	585	2.1	30	10	80	67-1050-ND	1.18	10.58	47.00	SSL-LX2573YD
		Green	Green Diff.	565	2.1	25	10	110	67-1046-ND	1.03	9.23	41.00	SSL-LX2573GD
		Pure Green	Green Diff.	555	2.1	25	6	120	67-1048-ND	1.50	13.50	60.00	SSL-LX2573PGD
2	Rect. (2x5mm)	Red/Green	White Diff.	635/565	2.1	30/25	6	110	67-1051-ND	4.05	36.45	162.00	SSL-LX2577IGW
3	Rect. (2.3x7mm)	Sup. Red	Red Diff.	660	1.8	30	50	110	67-1054-ND	2.20	19.80	88.00	SSL-LX25783SRD
		Red	Red Diff.	635	2.0	30	9	80	67-1053-ND	1.18	10.58	47.00	SSL-LX25783ID
		Yellow	Yellow Diff.	585	2.1	30	4	110	67-1055-ND	1.18	10.58	47.00	SSL-LX25783YD
		Green	Green Diff.	565	2.2	25	35	110	67-1052-ND	1.18	10.58	47.00	SSL-LX25783GD
4	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	30	10	60	67-1057-ND	1.63	14.63	65.00	SSL-LX3034YD
		Green	Green Diff.	565	2.2	25	10	60	67-1056-ND	1.50	13.50	60.00	SSL-LX3034GD
5	T-1 (3mm)	Red	Red Diff.	635	12.0	20	5	80	67-1067-ND	2.63	23.63	105.00	SSL-LX3044ID-12V
		Yellow	Yellow Diff.	585	12.0	20	5	80	67-1079-ND	2.63	23.63	105.00	SSL-LX3044YD-12V
		Green	Green Diff.	565	12.0	20	6	80	67-1061-ND	2.63	23.63	105.00	SSL-LX3044GD-12V
		Red	Red Diff.	635	5.0	20	5	80	67-1068-ND	3.30	29.70	132.00	SSL-LX3044ID-5V
		Yellow	Yellow Diff.	585	5.0	20	5	80	67-1080-ND	3.30	29.70	132.00	SSL-LX3044YD-5V
	T-1 (3mm)	Green	Green Diff.	565	5.0	20	6	80	67-1062-ND	3.30	29.70	132.00	SSL-LX3044GD-5V
		Dark Red	Red Diff.	700	2.0	25	8	60	67-1064-ND	.98	8.78	39.00	SSL-LX3044HD
		Sup. Red	Water Clear	660	1.8	30	600	30	67-1647-ND	2.78	24.98	111.00	SSL-LX3044SRC/D
		Red	Water Clear	635	2.1	30	125	30	67-1065-ND	1.23	11.03	49.00	SSL-LX3044IC
		Red	Red Diff.	635	2.0	30	30	60	67-1066-ND	1.38	12.38	55.00	SSL-LX3044ID
	T-1 (3mm)	Red	Red Trans.	635	2.0	30	30	20	67-1069-ND	1.23	11.03	49.00	SSL-LX3044IT
		Amber	Amber Diff.	605	2.1	30	15	60	67-1058-ND	1.23	11.03	49.00	SSL-LX3044AD
		Yellow	Water Clear	585	2.1	30	90	30	67-1077-ND	1.28	11.48	51.00	SSL-LX3044YC
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1078-ND	1.18	10.58	47.00	SSL-LX3044YD
		Yellow	Yellow Trans.	585	2.1	30	40	20	67-1081-ND	1.73	15.53	69.00	SSL-LX3044YT
	T-1 (3mm)	Green	Water Clear	565	2.2	25	100	30	67-1059-ND	1.20	10.80	48.00	SSL-LX3044GC
		Green	Green Diff.	565	2.2	25	40	60	67-1060-ND	1.10	9.90	44.00	SSL-LX3044GD
		Green	Green Trans.	565	2.1	25	40	20	67-1063-ND	1.20	10.80	48.00	SSL-LX3044GT
		Pure Green	Green Diff.	555	2.2	25	20	60	67-1073-ND	1.35	12.15	54.00	SSL-LX3044PGD
		Red	Red Diff.	635	2.0	30	30	60	67-1071-ND*	1.15	10.35	46.00	SSL-LX3044LID
	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	30	30	60	67-1072-ND*	1.13	10.13	45.00	SSL-LX3044LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1070-ND*	1.05	9.45	42.00	SSL-LX3044LGD
6	T-1 (3mm)	Red	Red Diff.	655	1.7	20	2	70	67-1402-ND	1.48	13.28	59.00	SSL-LX3052ID
		Yellow	Yellow Diff.	585	2.1	20	3	70	67-1397-ND	1.50	13.50	60.00	SSL-LX3052YD
		Green	Green Diff.	565	2.1	20	4	70	67-1396-ND	1.50	13.50	60.00	SSL-LX3052GD
7	Rect. (4x7mm)	Red	Red Diff.	635	2.0	20	12	120	67-1083-ND	2.58	23.18	103.00	SSL-LX4673ID-LA20
		Yellow	Yellow Diff.	585	2.1	30	6	120	67-1084-ND	2.58	23.18	103.00	SSL-LX4673YD-LA20
		Green	Green Diff.	565	2.1	25	6	120	67-1082-ND	2.58	23.18	103.00	SSL-LX4673GD-LA20
8	T-1 3/4 (5mm)	Red	Red Diff.	700	2.0	25	5	60	67-1088-ND	1.13	10.13	45.00	SSL-LX5063HD
		Red	Water Clear	635	2.0	30	160	30	67-1089-ND	1.50	13.50	60.00	SSL-LX5063IC
		Red	Red Diff.	635	2.0	30	400	60	67-1090-ND	1.28	11.48	51.00	SSL-LX5063ID
		Red	Red Trans.	635	2.0	30	160	30	67-1091-ND	1.43	12.83	57.00	SSL-LX5063IT
		Yellow	Water Clear	585	2.1	30	100	30	67-1093-ND	1.80	16.20	72.00	SSL-LX5063YC
	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	2.1	30	20	60	67-1094-ND	1.43	12.83	57.00	SSL-LX5063YD
		Yellow	Yellow Trans.	585	2.1	30	100	30	67-1095-ND	1.45	13.05	58.00	SSL-LX5063YT
		Green	Water Clear	565	2.0	30	100	30	67-1085-ND	1.95	17.55	78.00	SSL-LX5063GC
		Green	Green Diff.	565	2.2	25	30	60	67-1086-ND	1.20	10.80	48.00	SSL-LX5063GD
		Green	Green Trans.	565	2.0	25	100	30	67-1087-ND	1.28	11.48	51.00	SSL-LX5063GT
	T-1 3/4 (5mm)	Green	Green Trans.	565	2.0	25	100	30	67-1092-ND*	1.95	17.55	78.00	SSL-LX5063LGT
9	T-1 3/4 (5mm)	Green	Green Diff.	565	12.0	12	8	80	67-1099-ND	3.30	29.70	132.00	SSL-LX5093GD-12V
		Red	Red Diff.	695	5.0	10	3	80	67-1103-ND	2.63	23.63	105.00	SSL-LX5093HD-5V
		Red	Red Diff.	635	5.0	12	10	80	67-1106-ND	2.63	23.63	105.00	SSL-LX5093ID-5V
		Green	Green Diff.	565	5.0	12	10	80	67-1100-ND	2.63	23.63	105.00	SSL-LX5093GD-5V
		Red	Red Diff.	700	2.1	25	6	60	67-1102-ND	.98	8.78	39.00	SSL-LX5093HD
	T-1 3/4 (5mm)	Red	Red Trans.	695	2.0	25	25	30	67-1104-ND	1.30	11.70	52.00	SSL-LX5093HT
		Sup. Red	Red Diff.	660	1.7	30	250	60	67-1648-ND	1.58	14.18	63.00	SSL-LX5093SRD/D
		Red	Red Diff.	635	2.0	30	40	60	67-1105-ND	1.05	9.45	42.00	SSL-LX5093ID
		Red	Red Trans.	635	2.0	30	80	30	67-1107-ND	1.23	11.03	49.00	SSL-LX5093IT
		Amber	Amber Diff.	605	2.0	30	30	60	67-1097-ND	1.23	11.03	49.00	SSL-LX5093AD
	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	2.1	30	30	60	67-1116-ND	1.13	10.13	45.00	SSL-LX5093YD
		Yellow	Yellow Trans.	585	2.1	30	80	25	67-1117-ND	1.25	11.25	50.00	SSL-LX5093YT
		Green	Green Diff.	565	2.2	25	30	60	67-1098-ND	1.03	9.23	41.00	SSL-LX5093GD
		Green	Green Trans.	565	2.2	25	150	30	67-1101-ND	1.20	10.80	48.00	SSL-LX5093GT
		Pure Green	Green Diff.	555	2.1	25	15	60	67-1112-ND	1.20	10.80	48.00	SSL-LX5093PGD

* Low Current Version Lights at (2mA)

(Continued)

LEDs *(Cont.)*

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Lumex Part No.
9	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	20	80	67-1110-ND*	1.15	10.35	46.00	SSL-LX5093LID
		Yellow	Yellow Diff.	585	2.1	30	20	80	67-1111-ND*	1.15	10.35	46.00	SSL-LX5093LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1108-ND*	1.08	9.68	43.00	SSL-LX5093LGD
		Green	Green Trans.	565	2.1	30	80	25	67-1109-ND*	1.23	11.03	49.00	SSL-LX5093LGT
10	T-1 3/4 (5mm)	Red	Water Clear	635	2.0	30	600	20	67-1120-ND	1.50	13.50	60.00	SSL-LX5093XIC
		Amber	Water Clear	610	2.0	30	600	20	67-1118-ND	2.45	22.05	98.00	SSL-LX5093XAC
		Green	Water Clear	565	2.2	25	250	20	67-1119-ND	1.65	14.85	66.00	SSL-LX5093XGC
		Green	Water Clear	555	2.2	25	45	20	67-1121-ND	2.48	22.28	99.00	SSL-LX5093XPGC
11	T-1 3/4 (5mm)	Red/Green	White Diff.	635/565	2.1	30/25	20	60	67-1124-ND	3.70	33.30	148.00	SSL-LX5097IGW
12	T-3/4 (2mm)	Red	Red Diff.	635	2.0	30	25	70	67-1125-ND	1.48	13.28	59.00	SSL-LX20465ID
		Yellow	Yellow Diff.	585	2.1	30	10	70	67-1126-ND	1.50	13.50	60.00	SSL-LX20465YD
		Green	Green Diff.	565	2.2	25	10	70	67-1127-ND	1.35	12.15	54.00	SSL-LX20465GD
13	Sq. T-1 (3mm)	Sup. Yellow	Water Clear	590	2.25	70	800	50	67-1128-ND	6.78	60.98	271.00	SSL-LX30448SYC
14	Axial (1.7mm)	Red	Red Diff.	700	2.1	30	4	120	67-1129-ND	3.00	27.00	120.00	SSL-LXA223HD
15	Axial (1.8mm)	Red	Red Diff.	635	5.0	30	8	60	67-1131-ND	5.20	46.80	208.00	SSL-LXA227ID-5V
		Yellow	Yellow Diff.	585	5.0	20	8	60	67-1132-ND	5.20	46.80	208.00	SSL-LXA227YD-5V
		Green	Green Diff.	565	5.0	30	8	60	67-1130-ND	5.20	46.80	208.00	SSL-LXA227GD-5V
16	Axial (1.9mm)	Red	Water Clear	660	1.7	30	170	25	67-1137-ND*	3.43	30.83	137.00	SSL-LXA228SRC
		Red	Red Diff.	660	1.7	30	100	50	67-1138-ND*	3.85	34.65	154.00	SSL-LXA228SRD
		Red	Water Clear	635	2.0	30	30	25	67-1134-ND	2.45	22.05	98.00	SSL-LXA228IC
		Red	Red Diff.	635	2.0	30	25	50	67-1135-ND	2.25	20.25	90.00	SSL-LXA228ID
		Sup. Yellow	Water Clear	585	2.0	20	300	25	67-1139-ND	10.55	94.95	422.00	SSL-LXA228SYC
	Axial (1.9mm)	Yellow	Water Clear	585	2.0	20	30	25	67-1140-ND	2.55	22.95	102.00	SSL-LXA228YC
		Green	Water Clear	565	2.1	30	50	25	67-1136-ND	2.93	26.33	117.00	SSL-LXA228SGC
		Green	Green Diff.	565	2.1	25	12	25	67-1133-ND	2.25	20.25	90.00	SSL-LXA228GD
Fig.	**Description**	**Emitted Color**	**Lens**	**Peak Wavelength (nm)**	**Vf (V) Typ.**	**If (mA) Max.**	**Io (mcd)**	**Viewing Angle (2x Theta)**	**Digi-Key Part No.**	**Pricing 1**	**Pricing 10**	**Pricing 100**	**Lumex Part No.**
						Violet/RGB LEDs							
9	T-1 3/4 (5mm)	Violet	Water Clear	410	3.4	25	120	30	67-1830-ND	1.34	11.15	100.35	SSL-LX5093UVC
		Violet	Water Clear	380	3.4	25	70	30	67-1831-ND	4.08	34.00	306.00	SSL-LX5093SUVC
17	T-1 3/4 (5mm)	Red/Green/Blue	Water Clear	636/574/470	1.9/2.1/3.65	30	600/450/150	30	67-1829-ND	7.26	60.50	544.50	SSL-LX5099SIUBSUGB

* Low Current Version Lights at (2mA)

High Brightness LEDs

Fig. 1

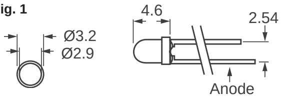


Fig. 2

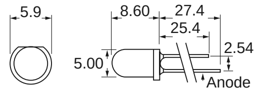


Fig. 3

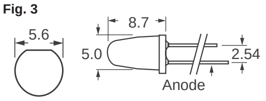


Fig. 4

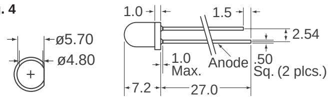


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	Lumex Part No.
1	T-1 (3mm)	Sup. Orange	Water Clear	620	2.0	30	1000	30	67-1074-ND	.99	8.25	74.25	330.00	SSL-LX3044SOC
		Sup. Yellow		590	2.1	30	1000	30	67-1076-ND	.86	7.20	64.80	288.00	SSL-LX3044SYC
		Green		502	3.5	25	1100	30	67-1754-ND	2.73	22.75	204.75	910.00	SSL-LX3044UEGC
2	T-1 3/4 (5mm)	Super Red	Water Clear	660	1.7	30	2800	30	67-1612-ND	.54	4.48	40.28	179.00	SSL-LX5093SRC/E
		Super Red		660	1.7	30	1800	30	67-1611-ND	.55	4.60	41.40	184.00	SSL-LX5093SRC/DW
		Super Red		660	1.7	30	1500	30	67-1610-ND	.28	2.33	20.93	93.00	SSL-LX5093SRC/DV
		Sup. Orange		610	2.0	30	2500	30	67-1113-ND	.99	8.25	74.25	330.00	SSL-LX5093SOC
		Sup. Yellow		590	2.1	30	1000	30	67-1115-ND	.71	5.95	53.55	238.00	SSL-LX5093SYC
		Green		502	3.5	25	1500	30	67-1755-ND	2.73	22.75	204.75	910.00	SSL-LX5093UEGC
3	T-1 3/4 (5mm)	Red	Water Clear	660	1.7	30	2500	20	67-1122-ND	.57	4.78	42.98	191.00	SSL-LX5093XRC/4
		Yellow		590	2.1	30	1300	20	67-1123-ND	1.00	8.30	74.70	332.00	SSL-LX5093XYC
4	T-1 3/4 (4.7mm)	Green	Water Clear	502	3.5	25	1000	30	67-1756-ND	2.73	22.75	204.75	910.00	SSL-LX4073UEGC

White LEDs

Fig. 1

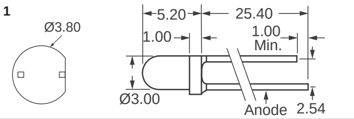


Fig. 2

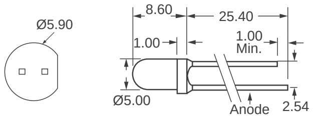


Fig. 3

Tapered Lens

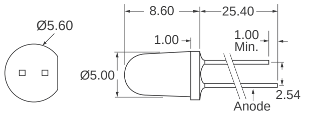


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	Lumex Part No.
1	T-1 (3mm)	White	Water Clear	—	3.6	30	1100	20	67-1606-ND	3.75	33.75	270.00	1200.00	SSL-LX3054UWC/A
2	T-1 3/4 (5mm)			—	3.6	30	740	45	67-1605-ND	3.75	33.75	270.00	1200.00	SSL-LX5093UWC/A
3	T-1 3/4 (5mm)			—	3.6	30	2300	15	67-1604-ND	3.75	33.75	270.00	1200.00	SSL-LX5093XUWC

Blue LEDs

Fig. 1

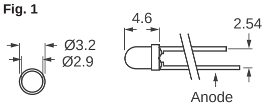


Fig. 2

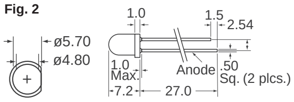


Fig. 3

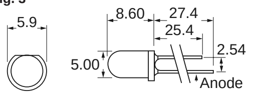


Fig. 4

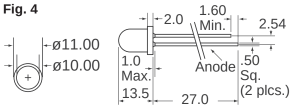
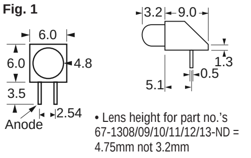


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	Lumex Part No.
1	T-1 (3mm)	Blue	Water Clear	470	3.5	30	1000	30	67-1747-ND	2.23	20.03	160.20	712.00	SSL-LX3044USBC
			Blue Diff.	470	3.5	30	80	60	67-1748-ND	2.23	20.03	160.20	712.00	SSL-LX3044USBD
2	T-1 3/4 (4.7mm)	Blue	Water Clear	470	3.5	30	750	30	67-1749-ND	2.23	20.03	160.20	712.00	SSL-LX4073USBC
3	T-1 3/4 (5mm)	Blue	Water Clear	470	3.5	30	1000	30	67-1750-ND	2.23	20.03	160.20	712.00	SSL-LX5093USBC
			Blue Diff.	470	3.5	30	300	60	67-1751-ND	2.23	20.03	160.20	712.00	SSL-LX5093USBD
4	10mm	Blue	Water Clear	470	3.6	30	800	15	67-1752-ND	3.05	27.45	219.60	976.00	SSL-LX100133USBC
			Blue Diff.	470	3.6	30	300	60	67-1753-ND	3.05	27.45	219.60	976.00	SSL-LX100133USBD

PC Mount LEDs

67-1542-ND Lumex Master Catalog CD-ROM **$1.95**

Fig. 1



• Lens height for part no.'s 67-1308/09/10/11/12/13-ND = 4.75mm not 3.2mm

Fig. 2

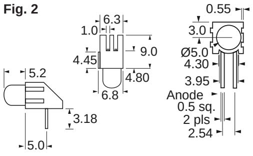


Fig. 3

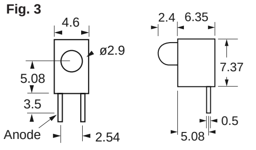


Fig. 4

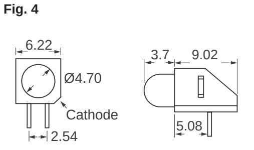


Fig. 5

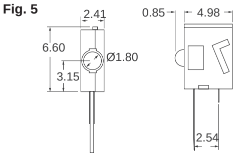


Fig. 6

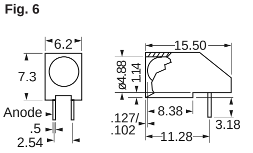


Fig. 7

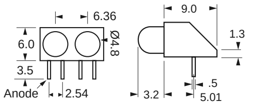


Fig. 8

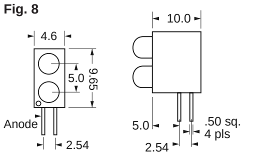
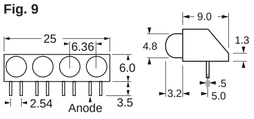


Fig. 9



* Lens height for part # 67-1322-ND = 4.75mm not 3.2mm

Fig. 10

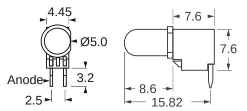


Fig.	Description	Emitted Color	Lens	Peak Wavelength (n.m)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1	5mm	Red/Green	White Diff.	695/565	2.1	25	4	60	67-1221-ND	.72	.60	.48	SSF-LXH100HGW
		Red	Red Diff.	635	5.0	12	30	60	67-1222-ND	.72	.60	.48	SSF-LXH100ID-5V
		Green	Green Diff.	565	5.0	12	10	60	67-1223-ND	.72	.60	.48	SSF-LXH100GD-5V
		Red	Red Diff.	695	2.1	25	6	60	67-1308-ND	.48	.40	.32	SSF-LXH100HD-01
		Red	Red Diff.	660	1.8	30	40	60	67-1225-ND	.72	.60	.48	SSF-LXH100SRD
		Red	Red Diff.	635	2.1	30	30	60	67-1309-ND	.84	.70	.56	SSF-LXH100ID-01
		Red	Red Diff.	635	2.1	30	8	60	67-1217-ND	.45	.38	.30	SSF-LXH100ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1311-ND	.84	.70	.56	SSF-LXH100YD-01
		Yellow	Yellow Diff.	585	2.1	30	8	60	67-1224-ND	.45	.38	.30	SSF-LXH100YD
		Green	Green Diff.	565	2.1	25	40	60	67-1310-ND	.84	.70	.56	SSF-LXH100GD-01
		Green	Green Diff.	565	2.1	25	30	60	67-1218-ND	.45	.38	.30	SSF-LXH100GD
		Red	Red Diff.	635	2.1	30	40	60	67-1312-ND†	.84	.70	.56	SSF-LXH100LID-01
		Red	Red Diff.	635	2.1	30	40	60	67-1219-ND†	.57	.48	.38	SSF-LXH100LID
		Green	Green Diff.	565	2.1	25	30	60	67-1313-ND†	.84	.70	.56	SSF-LXH100LGD-01
		Green	Green Diff.	565	2.1	25	30	60	67-1220-ND†	.57	.48	.38	SSF-LXH100LGD
2	5mm	Red/Green	White Diff.	700/565	2.0/2.2	30	6/20	60	67-1226-ND	.72	.60	.48	SSF-LXH100MHGW
		Red	Red Diff.	635	5.0	12	20	30	67-1233-ND	.72	.60	.48	SSF-LXH100MID-5V
		Green	Green Diff.	565	5.0	12	20	60	67-1234-ND	.72	.60	.48	SSF-LXH100MGD-5V
		Red	Red Diff.	660	1.8	30	100	60	67-1230-ND	.72	.60	.48	SSF-LXH100MSRD
		Red	Red Diff.	635	2.0	30	30	60	67-1227-ND	.45	.38	.30	SSF-LXH100MID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1229-ND	.45	.38	.30	SSF-LXH100MYD
		Green	Green Diff.	565	2.2	25	30	60	67-1228-ND	.45	.38	.30	SSF-LXH100MGD
		Red	Red Diff.	635	2.0	30	30	60	67-1231-ND†	.57	.48	.38	SSF-LXH100MLID
		Green	Green Diff.	565	2.2	25	30	60	67-1232-ND†	.57	.48	.38	SSF-LXH100MLGD
3	3mm	Red	Red Diff.	635	5.0	12	9	80	67-1241-ND	.66	.55	.44	SSF-LXH103ID-5V
		Green	Green Diff.	565	5.0	12	80	8	67-1242-ND	.66	.55	.44	SSF-LXH103GD-5V
		Red	Red Diff.	660	1.8	30	80	60	67-1238-ND	.54	.45	.36	SSF-LXH103SRD
		Red	Red Diff.	635	2.0	30	30	80	67-1235-ND	.39	.33	.26	SSF-LXH103ID
		Yellow	Yellow Diff.	585	2.1	30	15	80	67-1237-ND	.39	.33	.26	SSF-LXH103YD
		Green	Green Diff.	565	2.1	25	80	15	67-1236-ND	.39	.33	.26	SSF-LXH103GD
		Red	Red Diff.	635	2.0	30	40	60	67-1239-ND†	.54	.45	.36	SSF-LXH103LID
		Green	Green Diff.	565	2.1	25	15	80	67-1240-ND†	.54	.45	.36	SSF-LXH103LGD
4	4.7mm	Red	Red Diff.	695	5.0	12	3	60	67-1038-ND	.95	.79	.64	SSF-LXH104HD-5V
		Red	Red Diff.	635	2.0	30	20	60	67-1039-ND	.32	.27	.22	SSF-LXH104ID
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1040-ND	.32	.27	.22	SSF-LXH104YD
		Green	Green Diff.	565	2.2	25	30	60	67-1037-ND	.32	.27	.22	SSF-LXH104GD
5	1.8mm	Red	Red Diff.	635	2.0	30	8	60	67-1042-ND	.72	.61	.49	SSF-LXH555ID
		Yellow	Yellow Diff.	585	2.1	30	8	60	67-1043-ND	.72	.61	.49	SSF-LXH555YD
		Green	Green Diff.	565	2.1	25	8	60	67-1041-ND	.72	.61	.49	SSF-LXH555GD
6	5mm	Red/Green	White Diff.	700/565	2.1	30	5/8	80	67-1243-ND	.81	.68	.54	SSF-LXH1071HGW
		Red	Red Diff.	660	1.7	30	40	80	67-1247-ND	.72	.60	.48	SSF-LXH1071SRD
		Red	Red Diff.	635	2.1	30	40	80	67-1244-ND	.54	.45	.36	SSF-LXH1071ID
		Yellow	Yellow Diff.	585	2.1	30	20	80	67-1246-ND	.54	.45	.36	SSF-LXH1071YD
		Green	Green Diff.	565	2.1	30	20	80	67-1245-ND	.54	.45	.36	SSF-LXH1071GD
		Green	Green Diff.	565	1.9	30	20	80	67-1249-ND†	.66	.55	.44	SSF-LXH1071LGD
		Red	Red Diff.	635	1.9	30	20	80	67-1248-ND†	.66	.55	.44	SSF-LXH1071LID
7	5mm	Red	Red Diff.	660	1.8	30	100	60	67-1253-ND	1.08	.90	.72	SSF-LXH2100SRD
		Red	Red Diff.	635	2.0	30	40	60	67-1250-ND	.90	.75	.60	SSF-LXH2100ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1252-ND	.90	.75	.60	SSF-LXH2100YD
		Green	Green Diff.	565	2.2	25	30	60	67-1251-ND	.90	.75	.60	SSF-LXH2100GD
8	3mm	Red	Red Diff.	635	5.0	12	20	60	67-1260-ND	1.35	1.13	.90	SSF-LXH2103IID-5V/4
		Green	Green Diff.	565	5.0	12	20	60	67-1261-ND	1.35	1.13	.90	SSF-LXH2103GGD-5V/4
		Sup. Red	Red Diff.	660	1.7	30	130	60	67-1257-ND	1.56	1.30	1.04	SSF-LXH2103SRSRD/4
		Red	Red Diff.	635	2.0	30	40	60	67-1254-ND	.99	.83	.66	SSF-LXH2103IID/4
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1256-ND	.99	.83	.66	SSF-LXH2103YYD/4
		Green	Green Diff.	565	2.2	25	30	60	67-1255-ND	.99	.83	.66	SSF-LXH2103GGD/4
		Red	Red Diff.	635	2.0	30	40	60	67-1258-ND†	1.20	1.00	.80	SSF-LXH2103LIID/4
		Green	Green Diff.	565	2.2	25	30	60	67-1259-ND†	1.20	1.00	.80	SSF-LXH2103LGGD/4
9	5mm	Red/Green	White Diff.	695/565	2.1	25	25	60	67-1289-ND	2.34	1.95	1.56	SSF-LXH400HGW
		Red	Red Diff.	635	5.0	12	8	60	67-1290-ND	2.34	1.95	1.56	SSF-LXH400ID-5V
		Green	Green Diff.	565	5.0	12	20	60	67-1291-ND	2.34	1.95	1.56	SSF-LXH400GD-5V
		Red	Red Diff.	660	1.7	30	100	60	67-1288-ND	2.34	1.95	1.56	SSF-LXH400SRD
		Red	Red Diff.	635	2.0	30	20	60	67-1285-ND	1.26	1.05	.84	SSF-LXH400ID
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1287-ND	1.26	1.05	.84	SSF-LXH400YD
		Green	Green Diff.	565	2.1	25	20	60	67-1322-ND	2.22	1.85	1.48	SSF-LXH400GD-01
		Green	Green Diff.	565	2.1	25	20	60	67-1286-ND	1.26	1.05	.84	SSF-LXH400GD
10	5mm	Red/Green	White Diff.	695/565	2.1	25	4	60	67-1292-ND	1.38	1.15	.92	SSF-LXH4RA5HGW
		Red (blinking)	Red Diff.	635	3.5	70	20	60	67-1301-ND	2.64	2.20	1.76	SSF-LXH4RA5BID
		Red	Red Diff.	635	5.0	12	30	60	67-1299-ND	1.38	1.15	.92	SSF-LXH4RA5ID-5V
		Green	Green Diff.	565	5.0	12	15	60	67-1300-ND	1.38	1.15	.92	SSF-LXH4RA5GD-5V
		Red	Red Diff.	660	1.7	30	80	60	67-1296-ND	1.38	1.15	.92	SSF-LXH4RA5SRD
		Red	Red Diff.	635	2.1	30	40	60	67-1293-ND	.96	.80	.64	SSF-LXH4RA5ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1295-ND	.96	.80	.64	SSF-LXH4RA5YD
		Green	Green Diff.	565	2.1	25	30	60	67-1294-ND	.96	.80	.64	SSF-LXH4RA5GD
		Red	Red Diff.	635	2.1	30	40	60	67-1297-ND†	.96	.80	.64	SSF-LXH4RA5LID
		Green	Green Diff.	565	2.1	25	30	60	67-1298-ND†	.96	.80	.64	SSF-LXH4RA5LGD
11	3mm	Red/Green	White Diff.	700/565	2.1	25	3/4	60	67-1302-ND	1.38	1.15	.92	SSF-LXH4RAHGW
		Red (blinking)	Red Diff.	635	3.5	20	6	60	67-1307-ND	2.64	2.20	1.76	SSF-LXH4RABID
		Red	Red Diff.	660	1.7	30	80	60	67-1306-ND	1.38	1.15	.92	SSF-LXH4RASRD
		Red	Red Diff.	635	2.1	30	40	60	67-1303-ND	.96	.80	.64	SSF-LXH4RAID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1305-ND	.96	.80	.64	SSF-LXH4RAYD
		Green	Green Diff.	565	2.1	25	30	60	67-1304-ND	.96	.80	.64	SSF-LXH4RAGD

† Low Current Version, Lights at (2mA)

(Continued)

PC Mount LEDs *(Cont.)*

Fig. 11

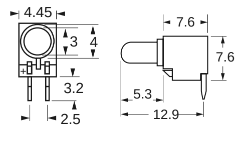


Fig. 12

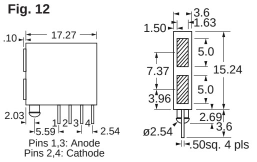


Fig. 13

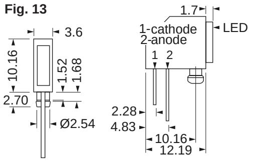


Fig. 14

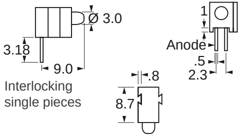


Fig. 15

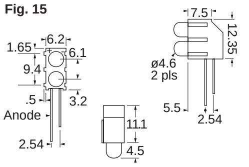


Fig. 16

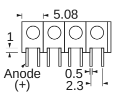


Fig. 17

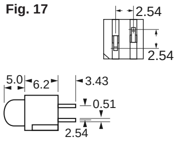


Fig. 18

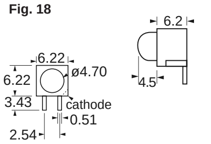


Fig. 19

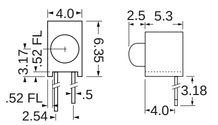


Fig. 20

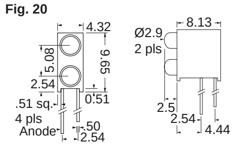


Fig. 21

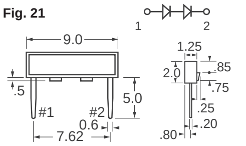


Fig.	Description	Emitted Color	Lens	Peak Wavelength (n.m)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
12	5.0x1.63mm	Red	Red Diff.	660	1.7	30	80	110	67-1265-ND	1.56	1.30	1.04	SSF-LXH22573SRSRD
		Red	Red Diff.	635	2.0	30	10	110	67-1262-ND	1.14	.95	.76	SSF-LXH22573IID
		Yellow	Yellow Diff.	585	2.1	30	10	110	67-1264-ND	1.14	.95	.76	SSF-LXH22573YYD
		Green	Green Diff.	565	2.2	25	10	110	67-1263-ND	1.14	.95	.76	SSF-LXH22573GGD
		Red	Red Diff.	635	2.0	30	10	80	67-1266-ND†	1.44	1.20	.96	SSF-LXH22573LIID
		Green	Green Diff.	565	2.2	25	10	80	67-1267-ND†	1.44	1.20	.96	SSF-LXH22573LGGD
13	2.5x7mm	Red/Green	White Diff.	695/565	2.0/2.2	25	2/9	110	67-1268-ND	.93	.78	.62	SSF-LXH25780HGW
		Red	Red Diff.	660	1.7	30	50	110	67-1272-ND	.93	.78	.62	SSF-LXH25780SRD
		Red	Red Diff.	635	2.0	30	15	110	67-1269-ND	.63	.53	.42	SSF-LXH25780ID
		Yellow	Yellow Diff.	585	2.1	30	9	110	67-1271-ND	.63	.53	.42	SSF-LXH25780YD
		Green	Green Diff.	565	2.2	25	9	110	67-1270-ND	.63	.53	.42	SSF-LXH25780GD
14	3mm	Sup. Red	Red Diff.	660	1.8	30	100	60	67-1276-ND	.78	.65	.52	SSF-LXH2300SRD-LM
		Red	Red Diff.	635	5.0	30	30	60	67-1279-ND	.78	.65	.52	SSF-LXH2300ID-5V-LM
		Green	Green Diff.	565	5.0	25	30	60	67-1280-ND	.78	.65	.52	SSF-LXH2300GD-5V-LM
		Red	Red Diff.	635	2.0	30	50	60	67-1273-ND	.54	.45	.36	SSF-LXH2300ID-LM
		Yellow	Yellow Diff.	585	2.1	30	50	60	67-1275-ND	.54	.45	.36	SSF-LXH2300YD-LM
		Green	Green Diff.	565	2.2	25	50	60	67-1274-ND	.54	.45	.36	SSF-LXH2300GD-LM
		Red	Red Diff.	635	2.0	25	50	60	67-1277-ND†	.72	.60	.48	SSF-LXH2300LID-LM
		Green	Green Diff.	565	2.2	25	50	60	67-1278-ND†	.72	.60	.48	SSF-LXH2300LGD-LM
15	5mm	Red/Green	White Diff.	635/565	2.0/2.2	30/25	30/25	60	67-1281-ND	1.62	1.35	1.08	SSF-LXHM250IGIGW
		Red	Red Diff.	635	2.0	30	40	60	67-1282-ND	.96	.80	.64	SSF-LXHM250IID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1284-ND	.96	.80	.64	SSF-LXH250MYYD
		Green	Green Diff.	565	2.2	25	30	60	67-1283-ND	.96	.80	.64	SSF-LXHM250GGD
16	3mm	Red	Red Diff.	635	2.0	30	40	60	67-1315-ND	2.04	1.70	1.36	SSF-LXH2300/4ID
17	5mm	Green	Green Diff.	565	2.2	25	30	60	67-1316-ND	.84	.70	.56	SSF-LXH101GD-1SL
18	5mm	Red	Red Diff.	635	2.0	30	40	60	67-1317-ND	.84	.70	.56	SSF-LXH101ID-01
		Green	Green Diff.	565	2.2	25	30	60	67-1318-ND	.84	.70	.56	SSF-LXH101GD-01
19	3mm	Red	Red Diff.	635	2.1	30	40	60	67-1320-ND	.84	.70	.56	SSF-LXH303ID
20	3mm	Red	Red Diff.	635	2.0	30	15	80	67-1319-ND	1.20	1.00	.80	SSF-LXH240IID
		Green	Green Diff.	565	2.1	25	15	80	67-1321-ND	1.20	1.00	.80	SSF-LXH240GGD
21	9.0x2.0mm	Red	Red Trans.	660	3.6	30	50	160	67-1326-ND	1.08	.90	.72	SSB-LX02SRC
		Red	Red Trans.	635	4.5	30	16	160	67-1323-ND	.87	.73	.58	SSB-LX02IC
		Yellow	Yellow Trans.	590	4.2	30	170	160	67-1325-ND	.87	.73	.58	SSB-LX02YC
		Green	Green Trans.	565	4.4	25	10	160	67-1324-ND	.87	.73	.58	SSB-LX02GC

† Low Current Version, Lights at (2mA)

NEW! Light Pipes

Fig.	Recommended LED Series	No. of Positions	Dim. - Inch (mm) H	L	Digi-Key Part No.	Price Each 1	10	25	100	Lumex Part No.
1 2	SML-LX2832	—	—	—	67-1844-ND 67-1845-ND	1.92 2.01	1.66 1.73	1.56 1.63	1.13 1.18	LPB-R0112051S LPB-S01110101S
3	SML-LX1206 SML-LX1210	—	—	—	67-1847-ND	.83	.72	.67	.49	LPF-C011304S
4 5 6	SML-LX23	—	—	—	67-1850-ND 67-1851-ND 67-1852-ND	.78 1.31 1.39	.68 1.13 1.21	.64 1.06 1.14	.46 .77 .82	LPF-C012303S LPF-C013301S LPF-C014301S
7	SML-LX1206 or SML-LX1210	2 3 4 5	— — — —	.540 (13.72) .740 (18.80) .939 (23.84) 1.139 (28.92)	67-1853-ND 67-1854-ND 67-1855-ND 67-1856-ND	1.66 2.49 3.31 4.15	1.43 2.15 2.86 3.58	1.35 2.02 2.69 3.37	.98 1.46 1.95 2.44	LPF-C021303S LPF-C031303S LPF-C041303S LPF-C051303S
8		—	—	—	67-1857-ND	4.26	3.68	3.46	2.50	LPF-C071303S
9	SML-LX0805xx	— — —	.394 (10) .787 (20) 1.97 (50)	— — —	67-1833-ND 67-1834-ND 67-1835-ND	1.13 1.13 1.13	.98 .98 .98	.92 .92 .92	.67 .67 .67	LPA-C011301S-10 LPA-C011301S-20 LPA-C011301S-50
10	SML-LX0805xx	4	.394 (10) .787 (20) 1.97 (50)	1.000 (25.40)	67-1836-ND 67-1837-ND 67-1838-ND	3.16 2.88 4.87	2.73 2.48 4.20	2.57 2.34 3.95	1.86 1.69 2.86	LPA-C041301S-10 LPA-C041301S-20 LPA-C041301S-50
		8	.394 (10) .787 (20) 1.97 (50)	1.800 (45.72)	67-1839-ND 67-1840-ND 67-1841-ND	5.95 4.70 4.70	5.13 4.05 4.05	4.82 3.81 3.81	3.49 2.76 2.76	LPA-C081301S-10 LPA-C081301S-20 LPA-C081301S-50
11	SML-LX1206xx	—	—	—	67-1846-ND	.70	.61	.57	.41	LPF-C011302S
12	SML-LX23	—	—	—	67-1849-ND	1.18	1.02	.96	.70	LPF-C012301S
13	SML-LX1206xx	—	—	—	67-1858-ND	.70	.61	.57	.41	LPF-R011362S
14	SML-LX0603xx	25	—	—	67-1859-ND	7.34	6.33	5.95	4.31	LPF-R251321S
15	SML-LX1210xx	—	—	—	67-1860-ND	.27	.24	.22	.16	LPF-S014331S

Fig. 1

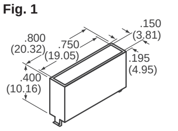


Fig. 2

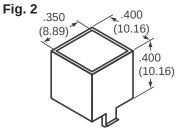


Fig. 3

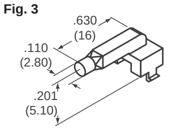
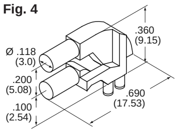


Fig. 4



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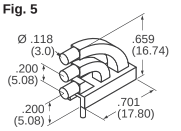


Fig. 6

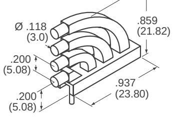


Fig. 7

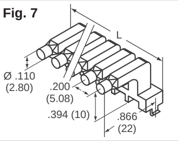
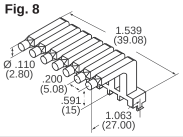


Fig. 8



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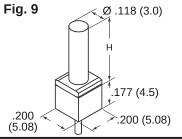


Fig. 10

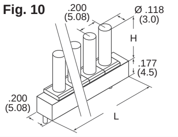


Fig. 11

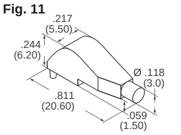


Fig. 12

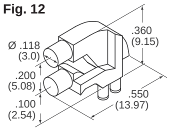


Fig. 13

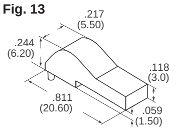


Fig. 14

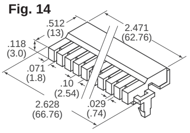
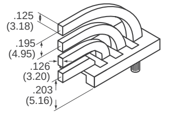
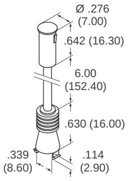


Fig. 15



NEW! Flexible Light Pipes



Recommended LED: SSL-LX3054XX

Lens Color	Digi-Key Part No.	Price Each 1	10	25	100	Lumex Part No.
Blue	67-1861-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150B
Clear	67-1862-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150C
Green	67-1863-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150G
Red	67-1864-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150R
Yellow	67-1865-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150Y

Surface Mount LEDs

67-1542-ND Lumex Master Catalog CD-ROM **$1.95**

Fig. 1 — SOT-23

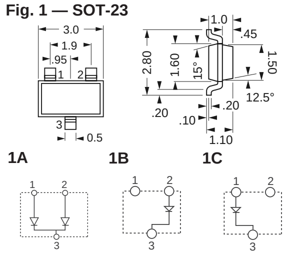


Fig. 2 — SOT-23 Footprint

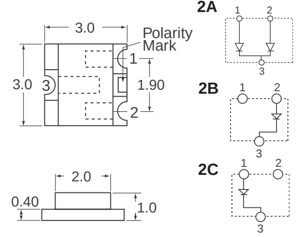
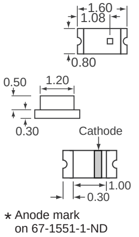
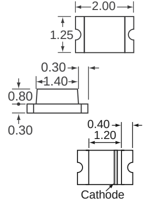


Fig. 3 — 0603



∗ Anode mark on 67-1551-1-ND

Fig. 4 — 0805



∗ Anode mark on 67-1555-1-ND

Fig. 5 — 1206

∗ Anode mark on 67-1359-1-ND 67-1004-1-ND

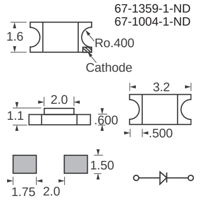


Fig. 6 — 1210

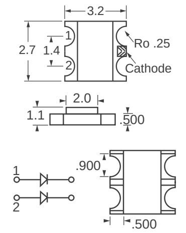
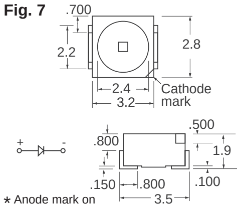


Fig. 7



∗ Anode mark on 67-1366-ND

Fig. 8

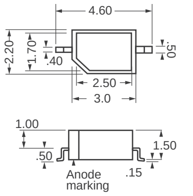


Fig. 9

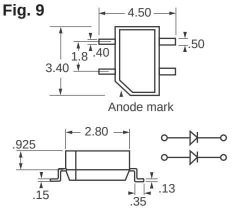


Fig. 10

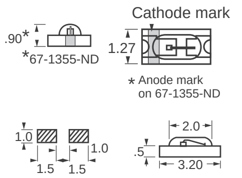


Fig. 11

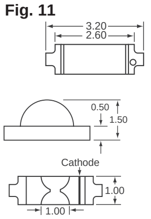


Fig. 12

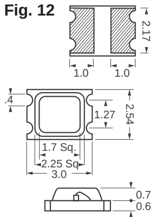
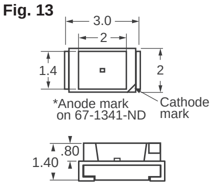


Fig. 13



*Anode mark on 67-1341-ND

Fig. 14

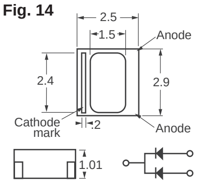


Fig. 15 — Gull Wing

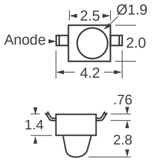


Fig. 16 — Yoke Shaped

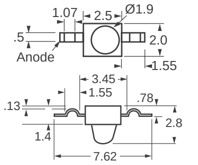


Fig. 17 — Z Bend

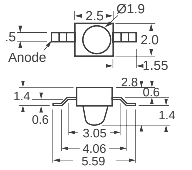


Fig. 18

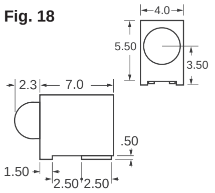


Fig. 19

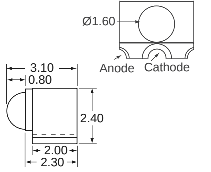


Fig. 20 — Interlocking, Re-Lampable

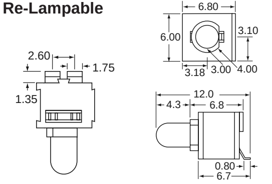


Fig. 21 — Interlocking, Re-Lampable

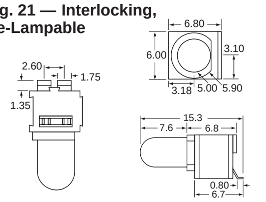


Fig. 22

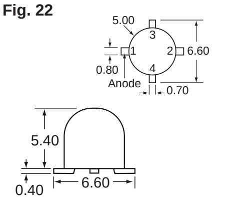


Fig. 23

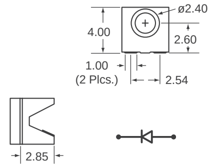


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Lumex Part No.
1A	SOT-23	Red/Green	Water Clear	635/565	2.0/2.1	30/25	10	140	67-1335-1-ND	.88	.77	.66	67-1335-2-ND	3,000	365.00/M	SSL-LX15IGC-RP-TR
		Red/Red		635	2.0	30	10	140	67-1334-1-ND	.96	.84	.72	67-1334-2-ND	3,000	398.00/M	SSL-LX15IIC-RP-TR
		Yellow/Yellow		585	2.1	30	10	140	67-1337-1-ND	.96	.84	.72	67-1337-2-ND	3,000	398.00/M	SSL-LX15YYC-RP-TR
		Green/Green		565	2.1	25	10	140	67-1336-1-ND	.96	.84	.72	67-1336-2-ND	3,000	398.00/M	SSL-LX15GGC-RP-TR
1B	SOT-23	Red	Water Clear	635	2.0	30	10	140	67-1381-1-ND	.64	.56	.48	67-1381-2-ND	3,000	265.60/M	SSL-LX15IC-TR
		Yellow		585	2.1	30	10	140	67-1383-1-ND	.64	.56	.48	67-1383-2-ND	3,000	265.60/M	SSL-LX15YC-TR
		Green		565	2.1	25	10	140	67-1382-1-ND	.64	.56	.48	67-1382-2-ND	3,000	265.60/M	SSL-LX15GC-TR
1C	SOT-23	Red	Water Clear	635	2.0	30	10	140	67-1378-1-ND	.64	.56	.48	67-1378-2-ND	3,000	265.60/M	SSL-LX15IC-RP-TR
		Yellow		585	2.1	30	10	140	67-1380-1-ND	.64	.56	.48	67-1380-2-ND	3,000	265.60/M	SSL-LX15YC-RP-TR
		Green		565	2.1	25	10	140	67-1379-1-ND	.64	.56	.48	67-1379-2-ND	3,000	265.60/M	SSL-LX15GC-RP-TR
2A	SOT-23	Red/Red	Water Clear	635	2.0	30	10	140	67-1654-1-ND	.83	.73	.63	67-1654-2-ND	3,000	343.62/M	SML-LX15IIC-RP-TR
		Yellow/Yellow		585	2.1	30	10	140	67-1672-1-ND	.83	.73	.63	67-1672-2-ND	3,000	343.62/M	SML-LX15YYC-RP-TR
		Green/Green		565	2.1	25	10	140	67-1657-1-ND	.83	.73	.63	67-1657-2-ND	3,000	343.62/M	SML-LX15GGC-RP-TR
		Red/Green		635/565	2.0/2.1	30/25	10	140	67-1655-1-ND	.83	.73	.63	67-1655-2-ND	3,000	343.62/M	SML-LX15IGC-RP-TR
		Yellow/Green		585/565	2.1/2.2	30/25	10	140	67-1674-1-ND	.83	.73	.63	67-1674-2-ND	3,000	343.62/M	SML-LX15YGC-RP-TR
2B	SOT-23	Super Red	Water Clear	660	1.7	30	20	140	67-1660-1-ND	.56	.50	.43	67-1660-2-ND	3,000	234.06/M	SML-LX15SRC-TR
		Red		635	2.0	30	10	140	67-1684-1-ND	.52	.46	.40	67-1684-2-ND	3,000	217.63/M	SML-LX15IC-TR
		Super Yellow		590	2.1	30	60	140	67-1664-1-ND	.58	.51	.44	67-1664-2-ND	3,000	240.70/M	SML-LX15SYC-TR
		Yellow		585	2.1	30	10	140	67-1670-1-ND	.52	.46	.40	67-1670-2-ND	3,000	217.46/M	SML-LX15YC-TR
		Super Ultra Green		574	2.2	25	45	140	67-1662-1-ND	.58	.51	.44	67-1662-2-ND	3,000	240.70/M	SML-LX15SUGC-TR
		Green		565	2.1	25	10	140	67-1685-1-ND	.52	.46	.40	67-1685-2-ND	3,000	217.46/M	SML-LX15GC-TR
		Ultra Pure Green		525	3.5	30	45	140	67-1666-1-ND	3.13	2.75	2.35	67-1666-2-ND	3,000	1299.78/M	SML-LX15UPGC-TR
		Ultra Super Blue		470	3.5	30	120	140	67-1668-1-ND	3.13	2.75	2.35	67-1668-2-ND	3,000	1299.78/M	SML-LX15USBC-TR
2C	SOT-23	Super Red	Water Clear	660	1.7	30	20	140	67-1661-1-ND	.56	.50	.43	67-1661-2-ND	3,000	234.06/M	SML-LX15SRC-RP-TR
		Red		635	2.0	30	10	140	67-1653-1-ND	.52	.46	.40	67-1653-2-ND	3,000	217.46/M	SML-LX15IC-RP-TR
		Super Yellow		590	2.1	30	60	140	67-1665-1-ND	.58	.51	.44	67-1665-2-ND	3,000	240.70/M	SML-LX15SYC-RP-TR
		Yellow		585	2.1	30	10	140	67-1671-1-ND	.52	.46	.40	67-1671-2-ND	3,000	217.46/M	SML-LX15YC-RP-TR
		Super Ultra Green		574	2.2	25	45	140	67-1663-1-ND	.58	.51	.44	67-1663-2-ND	3,000	240.70/M	SML-LX15SUGC-RP-TR
		Green		565	2.1	25	10	140	67-1656-1-ND	.52	.46	.40	67-1656-2-ND	3,000	217.46/M	SML-LX15GC-RP-TR
		Ultra Pure Green		525	3.5	30	45	140	67-1667-1-ND	3.13	2.75	2.35	67-1667-2-ND	3,000	1299.78/M	SML-LX15UPGC-RP-TR
		Ultra Super Blue		470	3.5	30	120	140	67-1669-1-ND	3.13	2.75	2.35	67-1669-2-ND	3,000	1299.78/M	SML-LX15USBC-RP-TR
3	0603	Super Red	White Diff.	660	1.8	30	45	140	67-1551-1-ND	.20	.17	.14	67-1551-2-ND	4,000	112.88/M	SML-LX0603SRW-TR
		Red		635	2.0	30	14	160	67-1548-1-ND	.20	.17	.14	67-1548-2-ND	4,000	111.22/M	SML-LX0603IW-TR
		Yellow		585	2.1	30	14	160	67-1550-1-ND	.19	.16	.13	67-1550-2-ND	4,000	106.24/M	SML-LX0603YW-TR
		Green		565	2.2	25	18	160	67-1549-1-ND	.17	.14	.12	67-1549-2-ND	4,000	92.96/M	SML-LX0603GW-TR
4	0805	Super Red	White Diff.	660	1.8	30	21	140	67-1555-1-ND	.18	.15	.12	67-1555-2-ND	4,000	99.60/M	SML-LXT0805SRW-TR
		Red	White Diff.	635	2.0	30	11	140	67-1552-1-ND	.18	.15	.12	67-1552-2-ND	4,000	97.94/M	SML-LXT0805IW-TR
		Yellow	White Diff.	585	2.1	30	10	140	67-1554-1-ND	.19	.16	.13	67-1554-2-ND	4,000	106.24/M	SML-LXT0805YW-TR
		Super Ultra Green	Water Clear	574	2.2	30	45	140	67-1687-1-ND	2.49	2.08	1.67	67-1687-2-ND	3,000	373.50/M	SML-LX0805SUGC-TR
		Green	White Diff.	565	2.0	30	11	140	67-1553-1-ND	.15	.13	.10	67-1553-2-ND	4,000	81.34/M	SML-LXT0805GW-TR
5	1206	Super Red	Water Clear	660	1.8	30	15	160	67-1359-1-ND	.60	.53	.45	67-1359-2-ND	3,000	249.00/M	SML-LX1206SRC-TR
		Super Red	White Diff.	660	1.8	30	15	160	67-1004-1-ND	.29	.26	.22	67-1004-2-ND	3,000	119.52/M	SML-LX1206SRW-TR

(Continued)

Surface Mount LEDs *(Cont.)*

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Lumex Part No.
										1	10	100		Size	Pricing	
5	1206	Red	Water Clear	635	2.0	25	6	160	67-1356-1-ND	.36	.32	.27	67-1356-2-ND	3,000	149.40/M	SML-LX1206IC-TR
		Red	White Diff.	635	2.0	25	6	160	67-1003-1-ND	.28	.25	.22	67-1003-2-ND	3,000	117.86/M	SML-LX1206IW-TR
		Yellow	Water Clear	585	2.1	25	6	160	67-1358-1-ND	.36	.32	.27	67-1358-2-ND	3,000	149.40/M	SML-LX1206YC-TR
		Green	Water Clear	565	2.2	25	10	160	67-1357-1-ND	.36	.32	.27	67-1357-2-ND	3,000	149.40/M	SML-LX1206GC-TR
		Green	White Diff.	565	2.2	25	10	160	67-1002-1-ND	.27	.24	.21	67-1002-2-ND	3,000	112.88/M	SML-LX1206GW-TR
6	1210	Sup. Red/Sup. Red	Water Clear	660	1.7	30	15	160	67-1360-1-ND	1.16	1.02	.87	67-1360-2-ND	3,000	481.40/M	SML-LX1210SRSRC-TR
		Red/Green		635/565	2.0/2.2	25	10	160	67-1361-1-ND	.76	.67	.57	67-1361-2-ND	2,000	315.40/M	SML-LX1210IGC-TR
		Yellow/Green		585/565	2.1/2.2	25	10	160	67-1363-1-ND	.76	.67	.57	67-1363-2-ND	2,000	315.40/M	SML-LX1210YGC-TR
		Green/Green		565/565	2.2	25	10	160	67-1362-1-ND	.76	.67	.57	67-1362-2-ND	2,000	315.40/M	SML-LX1210GGC-TR
7	3.2 x 2.8mm	Super Red	Water Clear	660	1.7	30	100	120	67-1366-1-ND	.80	.70	.60	67-1366-2-ND	2,000	332.00/M	SML-LX2832SRC-TR
		Red		635	2.0	30	25	120	67-1364-1-ND	.64	.56	.48	67-1364-2-ND	2,000	265.60/M	SML-LX2832IC-TR
		Yellow		585	2.1	30	15	120	67-1367-1-ND	.64	.56	.48	67-1367-2-ND	2,000	265.60/M	SML-LX2832YC-TR
		Green		565	2.1	25	25	120	67-1365-1-ND	.64	.56	.48	67-1365-2-ND	2,000	265.60/M	SML-LX2832GC-TR
8	3.0 x 2.2mm	Super Red	Water Clear	650	2.0	25	30	130	67-1371-1-ND•	.80	.70	.60	67-1371-2-ND•	2,000	332.00/M	SSL-LXA1725SRC-TR
		Red		635	2.0	30	12	130	67-1368-1-ND	.60	.53	.45	67-1368-2-ND	2,000	249.00/M	SSL-LXA1725IC-TR
		Yellow		585	2.1	30	12	130	67-1370-1-ND	.60	.53	.45	67-1370-2-ND	2,000	249.00/M	SSL-LXA1725YC-TR
		Green		565	2.1	25	25	130	67-1369-1-ND	.60	.53	.45	67-1369-2-ND	2,000	249.00/M	SSL-LXA1725GC-TR
9	3.4 x 2.8mm	Red/Green	Water Clear	635/565	2.0/2.1	30/25	12/20	130	67-1372-1-ND	1.08	.95	.81	67-1372-2-ND	1,000	448.20	SSL-LXA3025IGC-TR
		Yellow/Green		585/565	2.1	30/25	12	130	67-1373-1-ND	1.08	.95	.81	67-1373-2-ND	1,000	448.20	SSL-LXA3025YGC-TR
10	1.27 x 3.2mm	Super Red	Red Trans.	660	1.8	30	8	180	67-1355-1-ND	1.28	1.12	.96	67-1355-2-ND	3,000	512.00/M	CCL-LX45SRT
		Red	Red Trans.	635	2.1	30	7.2	180	67-1352-1-ND	.84	.74	.63	67-1352-2-ND	3,000	336.00/M	CCL-LX45IT
		Yellow	Yellow Trans.	585	2.3	30	7	180	67-1354-1-ND	.84	.74	.63	67-1354-2-ND	3,000	336.00/M	CCL-LX45YT
		Green	Green Trans.	565	2.2	30	7	180	67-1353-1-ND	.84	.74	.63	67-1353-2-ND	3,000	336.00/M	CCL-LX45GT
11	3.2 x 1.0mm	Super Red	Water Clear	660	1.8	30	30	130	67-1559-1-ND•	.26	.22	.17	67-1559-2-ND•	3,000	141.10/M	SML-LXR85SRC-TR
		Red		635	2.0	25	12	130	67-1556-1-ND	.26	.22	.17	67-1556-2-ND	3,000	141.10/M	SML-LXR85IC-TR
		Yellow		585	2.1	25	10	130	67-1558-1-ND	.24	.20	.16	67-1558-2-ND	3,000	131.14/M	SML-LXR85YC-TR
		Green		565	2.2	25	12	130	67-1557-1-ND	.23	.19	.16	67-1557-2-ND	3,000	126.16/M	SML-LXR85GC-TR
12	3.0 x 2.54mm	Super Red	Water Clear	660	1.7	15	8	180	67-1345-1-ND	1.04	.91	.78	67-1345-2-ND	3,000	431.60/M	CCL-CRS10SR
		Red		635	2.0	25	4	180	67-1342-1-ND	.70	.62	.53	67-1342-2-ND	3,000	290.50/M	CCL-CRS10R
		Yellow		585	2.1	30	8	180	67-1344-1-ND	.70	.62	.53	67-1344-2-ND	3,000	290.50/M	CCL-CRS10Y
		Green		565	2.0	25	12	180	67-1343-1-ND	.70	.62	.53	67-1343-2-ND	3,000	290.50/M	CCL-CRS10G
13	3.0 x 2.0mm	Super Red	Water Clear	660	1.8	30	100	90	67-1341-1-ND	.77	.68	.58	67-1341-2-ND	2,000	318.72/M	SML-LX23SRC-TR
		Red		635	2.0	30	20	120	67-1338-1-ND	.59	.52	.45	67-1338-2-ND	2,000	245.68/M	SML-LX23IC-TR
		Yellow		585	2.1	30	20	120	67-1340-1-ND	.59	.52	.45	67-1340-2-ND	2,000	245.68/M	SML-LX23YC-TR
		Green		565	2.1	25	20	120	67-1339-1-ND	.59	.52	.45	67-1339-2-ND	2,000	245.68/M	SML-LX23GC-TR
14	2.5 x 2.9mm	Sup. Red/Sup. Red	Water Clear	660	1.7	30	40	90	67-1349-1-ND	1.48	1.30	1.11	67-1349-2-ND	2,000	614.20/M	CCL-LX253SRSRC
		Yellow/Green		585/565	2.1	30/25	20	90	67-1351-1-ND	.96	.84	.72	67-1351-2-ND	2,000	398.40/M	CCL-LX253YGC
		Green/Green		565	2.0	25	20	90	67-1350-1-ND	.96	.84	.72	67-1350-2-ND	2,000	398.40/M	CCL-LX253GGC
15	2.0 x 2.5mm	Super Red	Water Clear	660	1.8	30	170	25	67-1393-1-ND•	.78	.69	.59	67-1393-2-ND•	1,000	323.70	SSL-LXA228SRC-TR11
		Red	Water Clear	635	2.0	30	80	25	67-1384-1-ND	.47	.42	.36	67-1384-2-ND	1,000	195.88	SSL-LXA228IC-TR11
		Yellow	Yellow Diff.	585	2.1	30	15	50	67-1145-1-ND	.48	.42	.36	67-1145-2-ND	1,000	197.54	SSL-LXA228YD-TR11
		Yellow	Water Clear	585	2.1	30	30	25	67-1386-1-ND	.47	.42	.36	67-1386-2-ND	1,000	195.88	SSL-LXA228YC-TR11
		Green	Green Diff.	565	2.1	25	4	50	67-1141-1-ND	.48	.42	.36	67-1141-2-ND	1,000	197.54	SSL-LXA228GD-TR11
		Green	Water Clear	565	2.1	25	30	25	67-1385-1-ND	.47	.42	.36	67-1385-2-ND	1,000	195.88	SSL-LXA228GC-TR11
16	2.0 x 2.5mm	Super Red	Water Clear	660	1.7	30	170	25	67-1394-1-ND•	.78	.69	.59	67-1394-2-ND•	1,000	323.70	SSL-LXA228SRC-TR21
		Red	Red Diff.	635	2.0	30	12	50	67-1143-1-ND	.50	.44	.38	67-1143-2-ND	1,000	207.50	SSL-LXA228ID-TR21
		Red	Red Diff.	635	2.0	30	12	50	67-1144-1-ND*	.52	.46	.39	67-1144-2-ND*	1,000	215.80	SSL-LXA228LID-TR21
		Red	Water Clear	635	2.0	30	60	25	67-1387-1-ND	.47	.42	.36	67-1387-2-ND	1,000	195.88	SSL-LXA228IC-TR21
		Yellow	Yellow Diff.	585	2.0	20	50	12	67-1146-1-ND	.48	.42	.36	67-1146-2-ND	1,000	197.54	SSL-LXA228YD-TR21
		Yellow	Water Clear	585	2.0	20	30	25	67-1389-1-ND	.47	.42	.36	67-1389-2-ND	1,000	195.88	SSL-LXA228YC-TR21
		Green	Green Diff.	565	2.1	30	4	50	67-1142-1-ND	.50	.44	.38	67-1142-2-ND	1,000	207.50	SSL-LXA228GD-TR21
		Green	Water Clear	565	2.1	30	30	25	67-1388-1-ND	.47	.42	.36	67-1388-2-ND	1,000	195.88	SSL-LXA228GC-TR21
17	2.0 x 2.5mm	Super Red	Water Clear	690	2.0	25	340	25	67-1395-1-ND•	.78	.69	.59	67-1395-2-ND•	1,000	323.70	SSL-LXA228SRC-TR31
		Red		635	2.0	30	60	25	67-1390-1-ND	.47	.42	.36	67-1390-2-ND	1,000	195.88	SSL-LXA228IC-TR31
		Yellow		585	2.0	20	30	25	67-1392-1-ND	.47	.42	.36	67-1392-2-ND	1,000	195.88	SSL-LXA228YC-TR31
		Green		565	2.1	30	30	25	67-1391-1-ND	.47	.42	.36	67-1391-2-ND	1,000	195.88	SSL-LXA228GC-TR31
18	T-1 (3mm) SMT RA	Super Red	Red Diff.	660	1.7	30	80	60	67-1377-1-ND	1.00	.88	.75	67-1377-2-ND	1,000	415.00	SSF-LXH305SRD-TR
		Red	Red Diff.	635	2.0	30	40	60	67-1374-1-ND	.76	.67	.57	67-1374-2-ND	1,000	315.40	SSF-LXH305ID-TR
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1376-1-ND	.76	.67	.57	67-1376-2-ND	1,000	315.40	SSF-LXH305YD-TR
		Green	Green Diff.	565	2.2	25	30	60	67-1375-1-ND	.76	.67	.57	67-1375-2-ND	1,000	315.40	SSF-LXH305GD-TR
19	SMT RA	Super Red	Water Clear	636	2.0	30	60	110	67-1634-1-ND	.51	.45	.39	67-1634-2-ND	500	105.41	SMF-2432SIC-TR
		Super Yellow		590	2.1	30	170	110	67-1630-1-ND	.51	.45	.39	67-1630-2-ND	500	106.24	SMF-2432SYC-TR
		Yellow		585	2.0	30	14	110	67-1632-1-ND	.35	.31	.27	67-1632-2-ND	500	72.21	SMF-2432YC-TR
		Green		565	2.2	25	14	110	67-1631-1-ND	.34	.31	.26	67-1631-2-ND	500	71.38	SMF-2432GC-TR
		Ultra Green		525	3.5	30	40	110	67-1635-1-ND	6.40	5.60	4.80	67-1635-2-ND	500	1328.00	SMF-2432UPGC-TR
		Super Blue		470	3.5	30	140	110	67-1832-1-ND	3.32	2.91	2.49	67-1832-2-ND	500	688.90	SMF-2432USBC-TR
20	T-1 (3mm) SMT RA	Super Red	Red Diff.	660	1.7	30	80	60	67-1644-ND†	.80	.71	.61	—	—	—	SMF-HM1530SRD-305
		Red	Red Diff.	635	2.0	30	30	60	67-1641-ND†	.70	.62	.53	—	—	—	SMF-HM1530ID-305
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1642-ND†	.70	.62	.53	—	—	—	SMF-HM1530YD-305
		Green	Green Diff.	565	2.2	30	30	60	67-1643-ND†	.70	.62	.53	—	—	—	SMF-HM1530GD-305
21	T-1 3/4 (5mm) SMT RA	Super Red	Red Diff.	660	1.7	30	100	60	67-1622-ND†	.80	.71	.61	—	—	—	SMF-HM1530SRD-509
		Red	Red Diff.	635	2.0	25	30	60	67-1645-ND†	.70	.62	.53	—	—	—	SMF-HM1530ID-509
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1620-ND†	.70	.62	.53	—	—	—	SMF-HM1530YD-509
		Green	Green Diff.	565	2.2	25	30	60	67-1621-ND†	.70	.62	.53	—	—	—	SMF-HM1530GD-509
22	5mm	Super Red	Water Clear	660	1.7	30	400	30	67-1623-1-ND•	.72	.63	.54	67-1623-2-ND•	500	148.57	SML-LXL505SRC-TR
		Super Int. Red		636	2.0	30	1200	30	67-1625-1-ND	.72	.63	.54	67-1625-2-ND	500	148.57	SML-LXL505SIC-TR
		Super Orange		610	2.0	30	1500	30	67-1626-1-ND	.72	.63	.54	67-1626-2-ND	500	148.57	SML-LXL505SOC-TR
		Super Yellow		590	2.1	30	1200	30	67-1624-1-ND	.72	.63	.54	67-1624-2-ND	500	148.57	SML-LXL505SYC-TR
		Super Ultra Green		574	2.2	25	100	30	67-1686-1-ND	3.43	3.00	2.58	67-1686-2-ND	500	711.31	SML-LXL505SUGC-TR
		Ultra Green		525	3.5	25	500	30	67-1628-1-ND	3.85	3.38	2.89	67-1628-2-ND	500	799.29	SML-LXL505UPGC-TR
		Ultra Super Blue		470	3.5	30	800	30	67-1629-1-ND	3.52	3.09	2.65	67-1629-2-ND	500	731.23	SML-LXL505USBC-TR
23	3.6 x 4.0mm SMT RA	Super Red	Water Clear	660	1.7	30	80	90	67-1827-1-ND•	.68	.60	.52	67-1827-2-ND•	500	141.93	SML-LXR44SRC-TR
		Red		635	2.0	30	25	90	67-1826-1-ND	.53	.47	.40	67-1826-2-ND	500	110.39	SML-LXR44IC-TR
		Yellow		585	2.1	30	9	90	67-1828-1-ND	.53	.47	.40	67-1828-2-ND	500	110.39	SML-LXR44YC-TR
		Green		565	2.2	25	25	90	67-1825-1-ND	.53	.47	.40	67-1825-2-ND	500	110.39	SML-LXR44GC-TR

* Low current version, lights at 2mA † Bulk Pricing • Reverse Polarity

InGan Surface Mount LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Lumex Part No.
										1	10	100		Size	Pricing	
5	1206	Ultra White	Water Clear	550	3.5	20	40	140	67-1702-1-ND	3.14	2.75	2.36	—	—	—	SML-LX1206UWC-TR
		Ultra White	Yellow Diff	550	3.5	20	90	140	67-1866-1-ND *NEW!*	3.14	2.75	2.36	67-1866-2-ND *NEW!*	3,000	1303.10/M	SML-LX1206UWW-TR
		Ultra Pure Green	Water Clear	525	3.5	25	45	140	67-1700-1-ND	2.46	2.15	1.85	67-1700-2-ND	3,000	1019.24/M	SML-LX1206UPGC-TR
		Ultra Super Blue	Water Clear	470	3.5	25	25	140	67-1701-1-ND	2.46	2.15	1.85	67-1701-2-ND	3,000	1019.24/M	SML-LX1206USBC-TR
7	2832	Ultra Super Blue	Water Clear	470	3.5	30	60	120	67-1709-1-ND	2.46	2.15	1.85	67-1709-2-ND	2,000	1019.24/M	SML-LX2832USBC-TR
11	0.5 x 3.2mm	Green	Water Clear	525	3.5	25	45	160	67-1715-1-ND	1.84	1.54	1.23	67-1715-2-ND	3,000	1019.24/M	SML-LXR85UPGC-TR
		Blue		470	3.5	25	30	160	67-1716-1-ND	1.84	1.54	1.23	67-1716-2-ND	3,000	1019.24/M	SML-LXR85USBC-TR
13	2.0 x 3.0mm	Ultra Super Blue	Water Clear	470	3.5	30	60	90	67-1726-1-ND	2.46	2.15	1.85	67-1726-2-ND	1,000	1019.24	SML-LX23USBC-TR
15	2.0 x 2.5mm Gull Wing	Ultra Super Blue	Water Clear	470	3.5	30	250	30	67-1731-1-ND	2.46	2.15	1.85	67-1731-2-ND	1,000	1019.24	SSL-LXA228USBC-TR11
18	T-3mm	Ultra Super Blue	Blue Diff.	470	3.5	30	80	60	67-1746-1-ND	2.18	2.02	1.81	67-1746-2-ND	1,000	1809.40	SSF-LXH305USBD-TR

(Continued)

AllnGaP Surface Mount LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Lumex Part No.
										1	10	100		Size	Pricing	
3	0603	Super Intensity Red	White Diff.	636	2.0	30	60	140	67-1690-1-ND	.41	.34	.28	67-1690-2-ND	4,000	225.76/M	SML-LX0603SIW-TR
		Super Orange		610	2.0	30	60	140	67-1691-1-ND	.41	.34	.28	67-1691-2-ND	4,000	225.76/M	SML-LX0603SOW-TR
		Super Yellow		590	2.0	30	60	140	67-1694-1-ND	.49	.41	.33	67-1694-2-ND	4,000	272.24/M	SML-LX0603SYW-TR
		Super Ultra Green		574	2.2	25	45	140	67-1693-1-ND	.60	.50	.40	67-1693-2-ND	4,000	332.00/M	SML-LX0603SUGW-TR
4	0805	Super Red	Water Clear	636	2.0	30	60	140	67-1636-1-ND	.36	.30	.24	67-1636-2-ND	3,000	199.20/M	SML-LX0805SIC-TR
		Super Orange		610	2.0	30	60	140	67-1637-1-ND	.36	.30	.24	67-1637-2-ND	3,000	199.20/M	SML-LX0805SOC-TR
		Ultra Green		525	3.5	30	45	140	67-1640-1-ND	5.28	4.40	3.52	67-1640-2-ND	3,000	2921.60/M	SML-LX0805UPGC-TR
		Super Blue		470	3.5	30	25	140	67-1638-1-ND	3.18	2.65	2.12	67-1638-2-ND	3,000	1759.60/M	SML-LX0805USBC-TR
5	1206	Super Intensity Red	Water Clear	636	2.0	30	70	140	67-1695-1-ND	.24	.22	.19	67-1695-2-ND	3,000	101.26/M	SML-LX1206SIC-TR
		Super Orange		610	2.0	30	70	140	67-1696-1-ND	.24	.22	.19	67-1696-2-ND	3,000	101.26/M	SML-LX1206SOC-TR
		Super Yellow		590	2.0	30	70	140	67-1699-1-ND	.66	.58	.50	67-1699-2-ND	3,000	272.24/M	SML-LX1206SYC-TR
		Super Ultra Green		574	2.2	25	45	140	67-1698-1-ND	1.08	.95	.81	67-1698-2-ND	3,000	448.20/M	SML-LX1206SUGC-TR
6	1210	Red/Green	Water Clear	660/565	1.8/2.2	30/25	15/10	160	67-1703-1-ND	.83	.73	.63	67-1703-2-ND	2,000	343.62/M	SML-LX1210SRSGC-TR
		Red/Red		635	2.0	25	10	160	67-1704-1-ND	.43	.38	.33	67-1704-2-ND	2,000	179.28/M	SML-LX1210IIC-TR
7	2832	Super Intensity Red	Water Clear	636	2.0	30	250	120	67-1705-1-ND	.72	.63	.54	67-1705-2-ND	2,000	298.80/M	SML-LX2832SIC-TR
		Super Orange		610	2.0	30	300	120	67-1706-1-ND	.72	.64	.55	67-1706-2-ND	2,000	300.46/M	SML-LX2832SOC-TR
		Super Yellow		595	2.0	30	80	120	67-1708-1-ND	.72	.64	.55	67-1708-2-ND	2,000	300.46/M	SML-LX2832SYC-TR
		Super Ultra Green		574	2.2	25	150	120	67-1707-1-ND	.72	.64	.55	67-1707-2-ND	2,000	300.46/M	SML-LX2832SUGC-TR
11	0.5 x 3.2mm	Red	Water Clear	636	2.0	25	70	160	67-1710-1-ND	.40	.33	.27	67-1710-2-ND	3,000	219.12/M	SML-LXR85SIC-TR
		Orange		610	2.0	30	75	160	67-1712-1-ND	.40	.33	.27	67-1712-2-ND	3,000	219.12/M	SML-LXR85SOC-TR
		Yellow		595	2.0	25	50	130	67-1714-1-ND	.55	.46	.37	67-1714-2-ND	3,000	305.44/M	SML-LXR85SYC-TR
		Green		574	2.2	25	45	180	67-1713-1-ND	.59	.49	.39	67-1713-2-ND	3,000	323.70/M	SML-LXR85SUGC-TR
13	2.0 x 3.0mm	Super Intensity Red	Water Clear	636	2.0	30	300	90	67-1722-1-ND	.96	.84	.72	67-1722-2-ND	2,000	398.40/M	SML-LX23SIC-TR
		Super Orange		610	2.45	30	300	90	67-1723-1-ND	.96	.84	.72	67-1723-2-ND	2,000	398.40/M	SML-LX23SOC-TR
		Super Yellow		590	2.0	30	200	90	67-1725-1-ND	.96	.84	.72	67-1725-2-ND	2,000	398.40/M	SML-LX23SYC-TR
		Super Ultra Green		574	2.2	25	80	90	67-1724-1-ND	1.24	1.09	.93	67-1724-2-ND	2,000	512.94/M	SML-LX23SUGC-TR
15	2.0 x 2.5mm Gull Wing	Super Intensity Red	Water Clear	632	2.0	30	475	50	67-1727-1-ND	.82	.72	.62	67-1727-2-ND	1,000	338.64	SSL-LXA228SIC-TR11
		Super Orange		610	2.0	30	700	25	67-1728-1-ND	.82	.72	.62	67-1728-2-ND	1,000	338.64	SSL-LXA228SOC-TR11
		Super Yellow		590	2.0	30	300	25	67-1730-1-ND	.66	.58	.50	67-1730-2-ND	1,000	272.24	SSL-LXA228SYC-TR11
		Super Green		575	2.0	25	200	25	67-1729-1-ND	.61	.54	.46	67-1729-2-ND	1,000	253.98	SSL-LXA228SUGC-TR11
18	T-3mm	Super Intensity Red	Red Diff.	636	2.0	30	100	60	67-1743-1-ND	1.20	1.06	.91	67-1743-2-ND	1,000	499.66	SSF-LXH305SID-TR
		Super Orange	Orange Diff.	610	2.1	30	100	60	67-1744-1-ND	2.16	1.89	1.62	67-1744-2-ND	1,000	896.40	SSF-LXH305SOD-TR
		Super Yellow	Yellow Diff.	590	2.1	30	250	60	67-1745-1-ND	2.16	1.89	1.62	67-1745-2-ND	1,000	896.40	SSF-LXH305SYD-TR
		Super Green	Green Diff.	565	2.2	30	150	60	67-1742-1-ND	1.20	1.06	.91	67-1742-2-ND	1,000	499.66	SSF-LXH305SGD-TR

SMT RGB (Red/Green/Blue) For Full Color Range

Fig. 1

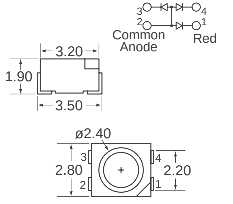


Fig. 2

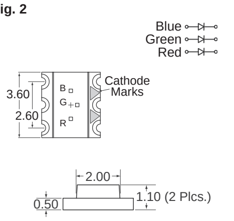


Fig. 3

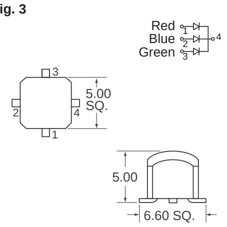


Fig. 4

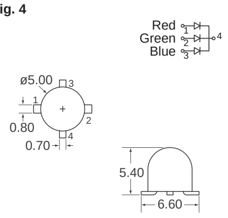


Fig. 5

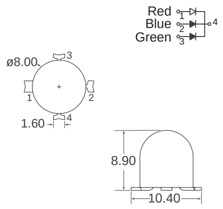


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
										1	10	100		Size	Pricing	
1	2.8 x 3.2mm	Red	Water Clear	660	1.7	30	110	120	67-1820-1-ND	2.58	2.26	1.94	67-1820-2-ND	2,000	1070.70/M	SML-LX2832SISUGSBC
		Green		574	2.2	25	60									
		Blue		470	3.5	30	60									
2	3.2 x 3.6mm	Red	Water Clear	660	1.8	30	75	20	67-1821-1-ND	2.58	2.26	1.94	67-1821-2-ND	1,500	1070.70/M	SML-LX3632SISUGSBC
		Green		574	2.2	25	60									
		Blue		470	3.5	30	50									
3	5.0 x 5.0mm	Red	White Diff.	660	1.7	30	9	120	67-1822-1-ND	5.34	4.94	4.44	67-1822-2-ND	500	2216.10	SML-LXL5550SRSGSBW
		Green		565	2.1	25	9									
		Blue		430	3.8	30	8									
4	T-1 3/4 (5mm)	Red	Water Clear	640	1.7	30	800	30	67-1823-1-ND	5.34	4.94	4.44	67-1823-2-ND	500	2216.10	SML-LXL505SIUPGUSC
		Green		525	3.5	25	700									
		Blue		470	3.5	30	800									
5	T2-3/4 (8mm)	Red	Water Clear	636	2.0	30	900	30	67-1824-ND†	5.34	4.94	4.44	—	—	—	SML-LXL809SIUPGUSB
		Green		525	3.5	25	800									
		Blue		470	3.5	30	900									

† Bulk Pricing

White Surface Mount LEDs

Fig. 1

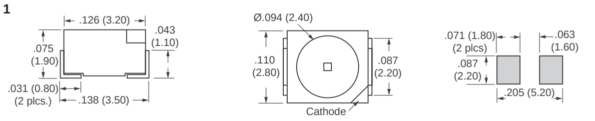


Fig. 2

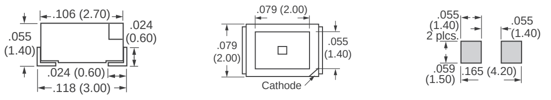


Fig.	Description (mm)	Emitted Color	Lens	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
									1	10	100		Size	Pricing	
1	3.2 x 2.8	White	Water Clear	3.6	30	150	120	67-1608-1-ND	3.00	2.78	2.49	67-1608-2-ND	1,500	2100.00/M	SML-LX2832UWC-TR
2	2.7 x 2.0			3.6	30	40	120	67-1607-1-ND	2.86	2.65	2.38	67-1607-2-ND	1,000	2002.00	SML-LX23UWC-TR

Panel Mount LEDs

67-1542-ND Lumex Master Catalog CD-ROM **$1.95**

Fig. 1

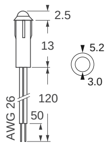


Fig. 2

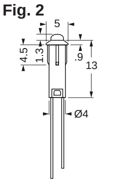


Fig. 3

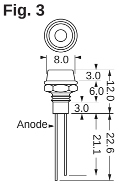
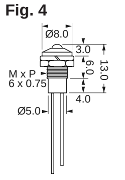


Fig. 4



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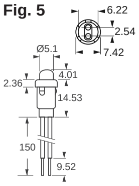


Fig. 6

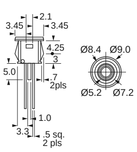
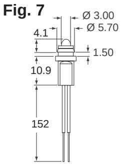
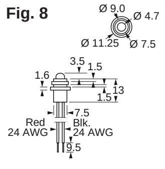


Fig. 7



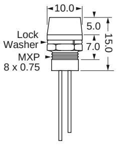
(rear panel mount)

Fig. 8



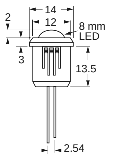
(rear panel mount)

Fig. 9



(reflector bezel)

Fig. 10



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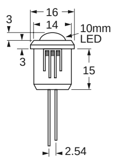

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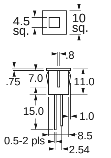

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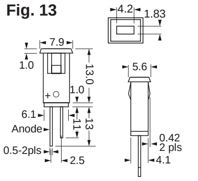


Fig. 14

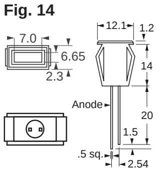


Fig. 15

Panel cutout:
10.25 mm
square

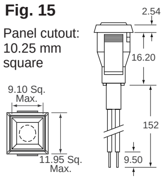


Fig. 16

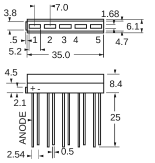


Fig. 17

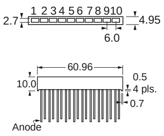


Fig. 18

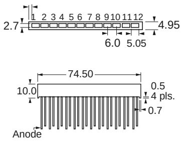


Fig. 19

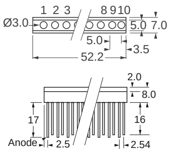


Fig. 20

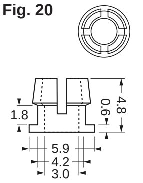


Fig. 21

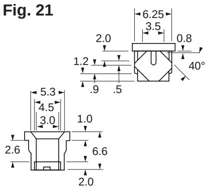


Fig. 22

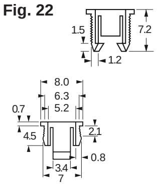


Fig. 23

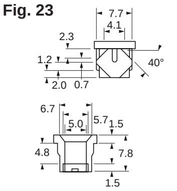


Fig. 24

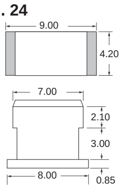


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	50	Lumex Part No.
1	T-1 (3mm)	Red	Red Diff.	635	2.0	30	10	80	67-1190-ND	1.20	.96	.84	SSI-LXH312ID-150
		Green	Green Diff.	565	2.1	25	10	80	67-1191-ND	1.20	.96	.84	SSI-LXH312GD-150
2	T-1 (3mm)	Red	Red Diff.	635	2.0	30	10	80	67-1192-ND	.63	.50	.44	SSI-LXH312ID
3	T-1 (3mm)	Super Red	Red Diff.	660	1.7	30	70	80	67-1150-ND	1.25	1.00	.88	SSI-LXR1612SRD
		Red	Red Diff.	635	2.0	30	40	60	67-1147-ND	1.00	.80	.70	SSI-LXR1612ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1149-ND	1.00	.80	.70	SSI-LXR1612YD
		Green	Green Diff.	565	2.1	25	30	60	67-1148-ND	1.00	.80	.70	SSI-LXR1612GD
4	T-1 (3mm)	Super Red	Red Diff.	660	1.7	30	65	80	67-1154-ND	1.25	1.00	.88	SSI-LXR3612SRD
		Red	Red Diff.	635	2.0	30	10	80	67-1151-ND	1.00	.80	.70	SSI-LXR3612ID
		Yellow	Yellow Diff.	585	2.0	30	10	80	67-1153-ND	1.00	.80	.70	SSI-LXR3612YD
		Green	Green Diff.	565	2.2	25	30	60	67-1152-ND	1.00	.80	.70	SSI-LXR3612GD
5	T-1 3/4 (5mm)	Red/Green	White Diff.	700/565	2.0/2.2	25	6/25	60	67-1187-ND	1.88	1.50	1.32	SSI-LXH600HGW-150
		Red	Red Diff.	635	2.0	30	40	60	67-1188-ND	1.15	.92	.81	SSI-LXH600ID-150
		Green	Green Diff.	565	2.2	25	30	60	67-1189-ND	1.15	.92	.81	SSI-LXH600GD-150
6	T-1 3/4 (5mm)	Super Red	Red Diff.	660	1.7	30	60	120	67-1158-ND	1.30	1.04	.91	SSI-LXH387SRD
		Red	Red Diff.	635	2.0	30	10	120	67-1155-ND	1.13	.90	.79	SSI-LXH387ID
		Yellow	Yellow Diff.	585	2.0	30	10	120	67-1157-ND	1.13	.90	.79	SSI-LXH387YD
		Green	Green Diff.	565	2.0	30	10	120	67-1156-ND	1.13	.90	.79	SSI-LXH387GD
7	T-1 (3mm)	Super Red	Red Diff.	660	1.7	30	100	60	67-1677-ND	2.44	1.96	1.71	SSI-RM3091SRD-150
		AlInGap Red	Red Diff.	636	2.0	30	100	60	67-1679-ND	2.60	2.08	1.82	SSI-RM3091SID-150
		Red	Red Diff.	635	2.0	30	40	60	67-1676-ND	2.16	1.73	1.52	SSI-RM3091ID-150
		Super Orange	Orange Diff.	610	2.0	30	100	60	67-1680-ND	2.49	1.99	1.75	SSI-RM3091SOD-150
		Super Yellow	Yellow Diff.	590	2.1	30	100	60	67-1682-ND	2.49	1.99	1.75	SSI-RM3091SYD-150
		Super Ultra Green	Green Diff.	574	2.2	25	50	60	67-1688-ND	2.75	2.20	1.93	SSI-RM3091SUGD-150
		Yellow	Yellow Diff.	565	2.1	30	30	60	67-1678-ND	2.16	1.73	1.52	SSI-RM3091YD-150
		Green	Green Diff.	565	2.2	25	30	60	67-1675-ND	2.16	1.73	1.52	SSI-RM3091GD-150
		Ultra Super Blue	Blue Diff.	470	3.5	30	80	60	67-1683-ND	4.55	3.64	3.19	SSI-RM3091USBD-150
8	T-1 3/4 (5mm)	Super Red	Red Diff.	660	1.7	30	80	60	67-1162-ND	1.15	.92	.81	SSI-LXH9SRD-150
		Red	Red Diff.	635	2.0	30	40	60	67-1159-ND	1.00	.80	.70	SSI-LXH9ID/-150
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1161-ND	1.00	.80	.70	SSI-LXH9YD-150
		Green	Green Diff.	565	2.2	25	30	60	67-1160-ND	1.00	.80	.70	SSI-LXH9GD-150
9	T-1 3/4 (5mm)	Super Red	Red Diff.	660	1.7	30	40	60	67-1166-ND	1.18	.94	.83	SSI-LXR4815SRD
		Red	Red Diff.	635	2	30	40	60	67-1163-ND	1.05	.84	.74	SSI-LXR4815ID
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1165-ND	1.05	.84	.74	SSI-LXR4815YD
		Green	Green Diff.	565	2.2	25	30	60	67-1164-ND	1.05	.84	.74	SSI-LXR4815GD
10	8mm	Super Red	Red Diff.	660	1.7	30	80	60	67-1170-ND	.85	.68	.60	SSI-LXH8080SRD
		Red	Red Diff.	635	2.0	30	40	60	67-1167-ND	.70	.56	.49	SSI-LXH8080ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1169-ND	.70	.56	.49	SSI-LXH8080YD
		Green	Green Diff.	565	2.2	25	30	60	67-1168-ND	.70	.56	.49	SSI-LXH8080GD
11	10mm	Super Red	Red Diff.	660	1.7	30	80	60	67-1174-ND	.98	.78	.69	SSI-LXH1090SRD
		Red	Red Diff.	635	2.0	30	40	60	67-1171-ND	.85	.68	.60	SSI-LXH1090ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1173-ND	.85	.68	.60	SSI-LXH1090YD
		Green	Green Diff.	565	2.2	25	30	60	67-1172-ND	.85	.68	.60	SSI-LXH1090GD
12	5mm	Super Red	Red Diff.	660	1.8	30	20	80	67-1178-ND	.80	.64	.56	SSI-LXH55SRD
		Red	Red Diff.	635	2.0	30	10	80	67-1175-ND	.65	.52	.46	SSI-LXH55ID
		Yellow	Yellow Diff.	585	2.1	30	10	80	67-1177-ND	.65	.52	.46	SSI-LXH55YD
		Green	Green Diff.	565	2.2	25	10	80	67-1176-ND	.65	.52	.46	SSI-LXH55GD
13	2 x 5mm	Super Red	Red Diff.	660	1.7	30	25	80	67-1182-ND	1.15	.92	.81	SSI-LXMP059SRD
		Red	Red Diff.	635	2.1	30	10	80	67-1179-ND	.95	.76	.67	SSI-LXMP059ID
		Yellow	Yellow Diff.	585	2.1	30	10	110	67-1181-ND	.95	.76	.67	SSI-LXMP059YD
		Green	Green Diff.	565	2.1	25	10	80	67-1180-ND	.95	.76	.67	SSI-LXMP059GD
14	2.3 x 7mm	Super Red	Red Diff.	660	1.7	30	50	110	67-1186-ND	1.00	.80	.70	SSI-LXH072SRD
		Red	Red Diff.	635	2.0	30	15	110	67-1183-ND	.85	.68	.60	SSI-LXH072ID
		Yellow	Yellow Diff.	585	2.1	30	9	110	67-1185-ND	.85	.68	.60	SSI-LXH072YD
		Green	Green Diff.	565	2.2	25	9	110	67-1184-ND	.85	.68	.60	SSI-LXH072GD
15	9 x 9mm	Super Red	Water Clear	660	1.8	30	60	60	67-1545-ND	1.65	1.32	1.16	SSI-LXMP5011SRC-150
		Red	Water Clear	635	2.0	30	20	60	67-1544-ND	1.50	1.20	1.05	SSI-LXMP5011IC-150
		Yellow	Water Clear	585	2.1	30	15	60	67-1546-ND	1.50	1.20	1.05	SSI-LXMP5011YC-150
		Green	Water Clear	565	2.2	25	15	60	67-1543-ND	1.50	1.20	1.05	SSI-LXMP5011GC-150
16	2 x 5mm	Super Red	Red Diff.	660	1.7	30	40	110	67-1204-ND	2.48	1.98	1.74	SSA-LXB525SRD
		Red	Red Diff.	635	2.0	30	12	110	67-1201-ND	1.53	1.22	1.07	SSA-LXB525ID
		Yellow	Yellow Diff.	585	2.1	30	10	110	67-1203-ND	1.60	1.28	1.12	SSA-LXB525YD
		Green	Green Diff.	565	2.0	25	10	110	67-1202-ND	1.53	1.22	1.07	SSA-LXB525GD

(Continued)

Panel Mount LEDs *(Cont.)*

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	50	Lumex Part No.
17	2.5 x 5mm	Super Red	Red Diff.	660	1.8	30	25	60	67-1208-ND	4.45	3.56	3.12	SSA-LXH1025SRD
		Red	Red Diff.	635	2.0	30	10	60	67-1205-ND	3.10	2.48	2.17	SSA-LXH1025ID
		Yellow	Yellow Diff.	585	2.1	30	10	60	67-1207-ND	3.48	2.78	2.44	SSA-LXH1025YD
		Green	Green Diff.	565	2.2	25	10	60	67-1206-ND	3.10	2.48	2.17	SSA-LXH1025GD
18	2.5 x 5mm	Super Red	Red Diff.	660	2.0	30	30	80	67-1212-ND	6.63	5.30	4.64	SSA-LXH1225SRD
		Red	Red Diff.	635	2.0	30	10	80	67-1209-ND	4.55	3.64	3.19	SSA-LXH1225ID
		Yellow	Yellow Diff.	585	2.1	30	10	80	67-1211-ND	4.78	3.82	3.35	SSA-LXH1225YD
		Green	Green Diff.	565	2.0	30	10	80	67-1210-ND	4.55	3.64	3.19	SSA-LXH1225GD
19	3mm	Super Red	Red Diff.	660	1.7	30	25	80	67-1216-ND	5.48	4.38	3.84	SSA-LXB102SRD
		Red	Red Diff.	635	2.0	30	8	80	67-1213-ND	3.73	2.98	2.61	SSA-LXB102ID
		Yellow	Yellow Diff.	585	2.1	30	8	80	67-1215-ND	3.48	2.78	2.44	SSA-LXB102YD
		Green	Green Diff.	565	2.1	25	8	80	67-1214-ND	3.73	2.98	2.61	SSA-LXB102GD

Panel Mount LED Holders

Fig.	Description	Panel Hole	Digi-Key Part No.	Pricing 5	25	100	Lumex Part No.
20	T1 Black Nylon	.160" (4.06)	67-1330-ND	.60	2.25	7.50	SSH-LX3050
21	T1 Black Nylon	.225" (5.71)	67-1331-ND	.60	2.25	7.50	SSH-LXH301
22	T1-3/4 Black Nylon	.250" (6.35)	67-1332-ND	.40	1.50	5.00	SSH-LX5091
23	T1-3/4 Black Nylon	.330" (8.38)	67-1333-ND	.60	2.25	7.50	SSH-LXH501
24	Mounting Clip and Ring for T1-3/4	.250" (6.35)	67-1044-ND	.36	1.35	4.50	SSH-LX5090

Poly LEDs Completely Encapsulated LED Clusters with Water Clear Lenses

Fig. 1

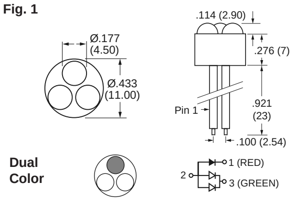


Fig. 2

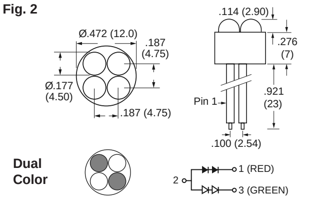


Fig. 3

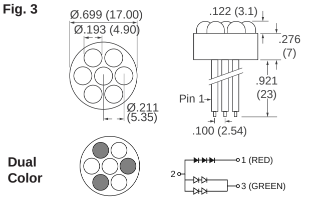


Fig. 4

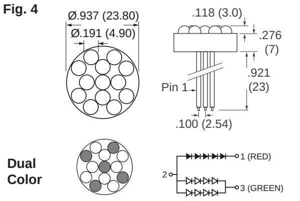


Fig. 5

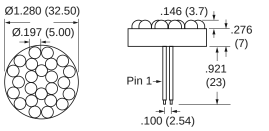


Fig. 6

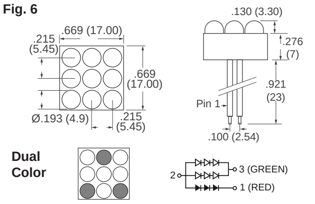


Fig. 7

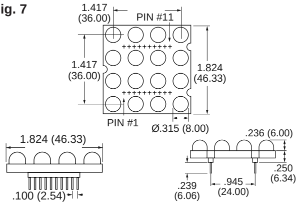


Fig. 8

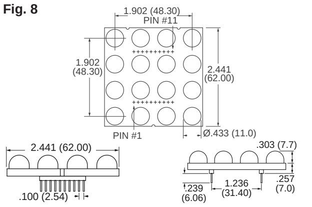
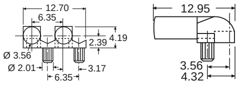


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Sunbright Part No.
1	11mm 3 (5mm) LEDs	Sup. Red/Sup. Green	Water Clear	660/565	1.8/2.2	30/25	2000/300	30	441-1047-ND	1.50	1.25	1.00	SSP-LXC04362S3A
		Super Red		660	5.4	30	2000	30	441-1048-ND	1.56	1.30	1.04	SSP-LXC04363
		Ultra Red		626	5.4	30	2000	30	441-1049-ND	2.55	2.13	1.70	SSP-LXC0436U3
		Super Yellow		590	6.3	30	1200	30	441-1046-ND	2.55	2.13	1.70	SSP-LXC0433S3
		Super Green		565	6.6	25	300	30	441-1045-ND	1.50	1.25	1.00	SSP-LXC0432S3
2	12mm 4 (5mm) LEDs	Sup. Red/Sup.Green	Water Clear	660/565	3.6/4.4	30/25	2000/300	30	441-1052-ND	1.83	1.53	1.22	SSP-LXC04762S4A
		Super Red		660	3.6	30	2000	30	441-1053-ND	1.89	1.58	1.26	SSP-LXC04764
		Ultra Red		626	3.6	30	2000	30	441-1054-ND	3.24	2.70	2.16	SSP-LXC0476U4
		Super Yellow		590	4.2	30	1200	30	441-1051-ND	3.24	2.70	2.16	SSP-LXC0473S4
		Super Green		565	4.4	25	300	30	441-1050-ND	1.80	1.50	1.20	SSP-LXC0472S4
3	17mm 7 (5mm) LEDs	Sup. Red/Sup. Green	Water Clear	660/565	5.4/4.4	30/25	2000/300	30	441-1057-ND	2.55	2.13	1.70	SSP-LXC06762S7A
		Super Red		660	5.4/3.6	30	2000	30	441-1058-ND	2.61	2.18	1.74	SSP-LXC06767A
		Ultra Red		626	5.4/3.6	30	2000	30	441-1059-ND	5.04	4.20	3.36	SSP-LXC0676U7A
		Super Yellow		590	6.3/4.2	30	1200	30	441-1056-ND	5.04	4.20	3.36	SSP-LXC0673S7A
		Super Green		565	6.6/4.4	25	300	30	441-1055-ND	2.52	2.10	1.68	SSP-LXC0672S7A
4	23.80mm 13 (5mm) LEDs	Sup. Red/Sup. Green	Water Clear	660/565	9.0/8.8	30/25	2000/300	30	441-1063-ND	4.50	3.75	3.00	SSP-LXC09462S13A
		Super Red		660	9.0/7.2	30	2000	30	441-1062-ND	4.65	3.88	3.10	SSP-LXC094613A
		Ultra Red		626	9.0/7.2	30	2000	30	441-1064-ND	7.63	6.10	5.34	SSP-LXC0946U13A
		Super Yellow		590	10.5/8.4	30	1200	30	441-1061-ND	7.63	6.10	5.34	SSP-LXC0943S13A
		Super Green		565	11/8.8	25	300	30	441-1060-ND	4.41	3.68	2.94	SSP-LXC0942S13A
5	32.50mm 24 (5mm) LEDs	Super Red	Water Clear	660	10.8	30	2000	30	441-1067-ND	8.28	6.90	5.52	SSP-LXC128624
		Ultra Red		626	10.8	30	2000	30	441-1068-ND	13.83	11.06	9.68	SSP-LXC1286U24
		Super Yellow		590	12.6	30	1200	30	441-1066-ND	13.83	11.06	9.68	SSP-LXC1283S24
		Super Green		565	13.2	25	300	30	441-1065-ND	7.83	6.53	5.22	SSP-LXC1282S24
6	17mm Sq. 9 (5mm) LEDs	Sup. Red/Sup. Green	Water Clear	660/565	5.4/6.6	30/25	2000/300	45	441-1071-ND	2.55	2.13	1.70	SSP-LXS06762S9A
		Super Red		660	5.4	30	2000	45	441-1072-ND	3.24	2.70	2.16	SSP-LXS06769
		Ultra Red		626	5.4	30	2000	45	441-1073-ND	6.39	5.33	4.26	SSP-LXS0676U9
		Super Yellow		590	6.3	30	900	45	441-1070-ND	6.39	5.33	4.26	SSP-LXS0673S9
		Super Green		565	6.6	25	200	45	441-1069-ND	3.09	2.58	2.06	SSP-LXS0672S9
7	46.33mm Sq. 16 (8mm) LEDs	Super Red	Water Clear	660	1.8	30	2000	30	441-1076-ND	7.35	6.13	4.90	SSP-LXS182616A
		Ultra Red		626	1.8	30	2000	30	441-1077-ND	10.33	8.26	7.23	SSP-LXS1826U16A
		Super Yellow		590	2.1	30	1200	30	441-1075-ND	9.35	7.48	6.55	SSP-LXS1823S16A
		Super Green		565	2.2	25	300	30	441-1074-ND	7.23	6.03	4.82	SSP-LXS1822S16A
8	62mm Sq. 16 (11mm) LEDs	Ultra Red	Water Clear	626	1.8	30	1800	30	441-1081-ND	11.50	9.20	8.05	SSP-LXS2446U16A
		Super Yellow		590	2.1	30	700	30	441-1079-ND	11.50	9.20	8.05	SSP-LXS2443S16A
		Super Green		565	2.2	25	300	30	441-1078-ND	8.00	6.40	5.60	SSP-LXS2442S16A

Optical Light Pipe



No. of Ports	Dimension (mm)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
2	3	350-1000-ND	1.20	1.00	.80	515-1071

Sunbrite Based LEDs

Fig. 1

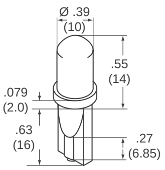


Fig. 2

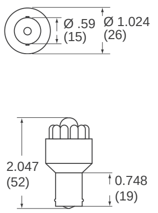


Fig. 3

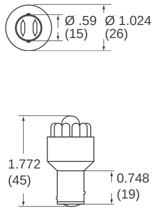


Fig. 4 *NEW!*

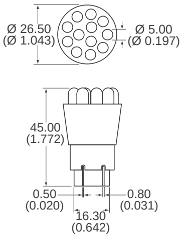


Fig. 5 *NEW!*

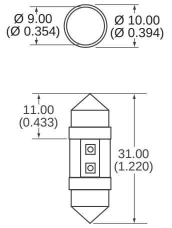


Fig. 6

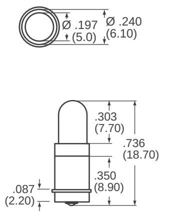


Fig. 7

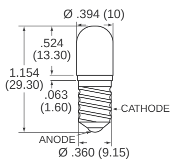


Fig. 8

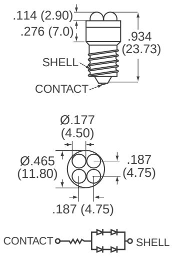


Fig. 9

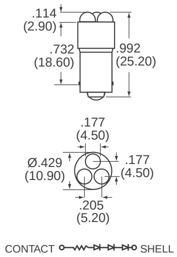


Fig. 10

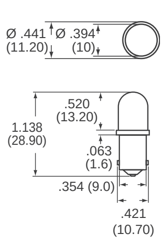


Fig. 11

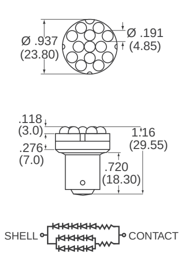


Fig. 12

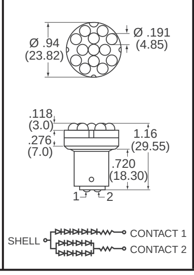


Fig. 13

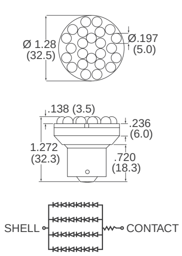


Fig. 14

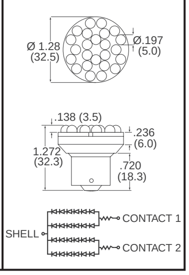


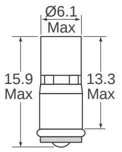
Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			Sunbrite Part No.
									1	10	100	
LED Miniature Wedge Base												
1	Red	Milky White Diff.	626	12	20	2800	60	441-1004-ND	.99	.83	.66	SSP-01TWB6UW12
	Red	Water Clear	626	12	20	8000	31	441-1005-ND	.99	.83	.66	SSP-01TWB6UWB12
	Super Yellow	Milky White Diff.	590	12	20	2200	60	441-1002-ND	.99	.83	.66	SSP-01TWB3SW12
	Super Yellow	Water Clear	590	12	20	7000	35	441-1003-ND	.99	.83	.66	SSP-01TWB3SWB12
	Ultra Green	Milky White Diff.	525	12	20	2800	60	441-1000-ND	1.60	1.34	1.07	SSP-01TWB2UPW12
	Pure Green	Water Clear	525	12	20	9000	30	441-1001-ND	1.60	1.34	1.07	SSP-01TWB2UPWB12
	Super Blue	Milky White Diff.	470	12	20	1600	60	441-1006-ND	1.50	1.25	1.00	SSP-01TWB7UW12
	Super Blue	Water Clear	470	12	20	7000	30	441-1007-ND	1.60	1.34	1.07	SSP-01TWB7UWB12
	Ultra White	Water Diff.	—	12	20	3300	60	441-1008-ND	1.60	1.34	1.07	SSP-01TWB9W12
	Ultra White	Water Clear	—	12	20	11000	30	441-1009-ND	1.60	1.34	1.07	SSP-01TWB9WB12
1156 LED Replacement Lamp												
2	Red	Water Clear	626	12	110	5000	20	441-1012-ND	4.18	3.34	2.93	SSP-1156B156U12
	Yellow		590	12	110	3500	20	441-1011-ND	4.18	3.34	2.93	SSP-1156B153S12
	Green		525	12	110	4000	20	441-1010-ND	11.50	10.07	8.63	SSP-1156B152UP12
	Super Blue		470	12	110	4500	20	441-1013-ND	10.52	9.21	7.89	SSP-1156B157U12
	Ultra White		—	12	110	7000	20	441-1014-ND	11.50	10.07	8.63	SSP-1156B15912
1157 LED Replacement Lamp												
3	Red	Water Clear	626	12	80	5000	20	441-1016-ND	4.18	3.34	2.93	SSP-1157B156U12
	Yellow		590	12	80	3500	12	441-1015-ND	4.18	3.34	2.93	SSP-1157B153S12
	Ultra White		—	12	80	7000	12	441-1017-ND	11.46	10.03	8.60	SSP-1157B15912
NEW! 3157 LED Replacement Lamp NEW!												
4	Red	Water Clear	626	12	75	8000/2700	35	441-1084-ND	5.20	4.55	3.90	SSP-3157WB6U12
	Super Yellow		590	12	75	8300/2800	35	441-1083-ND	5.20	4.55	3.90	SSP-3157WB3S12
	Ultra Pure Green		525	12	75	12000/4000	35	441-1082-ND	9.80	8.58	7.35	SSP-3157WB2UP12
	Ultra Super Blue		470	12	75	8300/2800	35	441-1085-ND	9.80	8.58	7.35	SSP-3157WB7U12
	Ultra White		—	12	75	8200/2750	35	441-1086-ND	10.40	9.10	7.80	SSP-3157WB912
NEW! LED Festoon Lamp NEW!												
5	Super Blue	Water Clear	470	12	30	4500	60	441-1087-ND	3.20	2.80	2.40	SSP-02TFS7U12
	Ultra White		—	12	30	5500	60	441-1088-ND	3.60	3.15	2.70	SSP-02TFS912
Midget Flange Base												
6	Red	Water Clear	636	12	30	1200	45	441-1036-ND	2.80	2.24	1.96	SSP-D19F9SIC-12V
	Yellow		590	12	30	1200	45	441-1038-ND	2.80	2.24	1.96	SSP-D19F9SYC-12V
	Green		574	12	25	300	45	441-1037-ND	3.30	2.64	2.31	SSP-D19F9SUGC-12V
Miniature Screw (E10) Base												
7	Red	Water Clear	636	12	30	2500	25	441-1042-ND	2.31	1.93	1.54	SSP-D29E10SIC-12V
	Yellow		590	12	30	1500	20	441-1043-ND	2.31	1.93	1.54	SSP-D29E10SYC-12V
	Green		574	12	25	1000	25	441-1044-ND	2.97	2.48	1.98	SSP-D29E10SUGC-12V
8	Red	Water Clear	626	12	12	5000	30	441-1035-ND	2.21	1.84	1.47	SSP-4SE106U12G
	Yellow		590	12	12	3200	30	441-1034-ND	2.21	1.84	1.47	SSP-4SE103S12G
	Green		525	12	12	5400	30	441-1033-ND	4.53	3.63	3.18	SSP-4SE102UP12G
Miniature Bayonet (BA9S) Base												
9	Red	Water Clear	626	12	30	3600	30	441-1032-ND	1.94	1.62	1.30	SSP-3MB96U12G
	Yellow		590	12	30	2400	30	441-1031-ND	1.94	1.62	1.30	SSP-3MB93S12G
	Green		525	12	30	4000	30	441-1030-ND	4.31	3.45	3.02	SSP-3MB92UP12G
10	Red	Water Clear	636	12	12	2500	40	441-1039-ND	2.31	1.93	1.54	SSP-D29B9SIC-12V
	Yellow		590	12	12	1500	40	441-1041-ND	2.31	1.93	1.54	SSP-D29B9SYC-12V
	Green		574	12	12	1000	40	441-1040-ND	2.97	2.48	1.98	SSP-D29B9SUGC-12V
Bayonet (BA15) Base												
11	Red	Water Clear	626	12	60	18000	30	441-1020-ND	5.21	4.17	3.65	SSP-13MB156U12G
	Yellow		590	12	60	12000	30	441-1019-ND	5.21	4.17	3.65	SSP-13MB153S12G
	Green		525	12	30	50000	30	441-1018-ND	13.50	11.82	10.13	SSP-13MB152UP12G
12	Red	Water Clear	626	12	20/40	18000	30	441-1023-ND	5.22	4.18	3.66	SSP-13MDB156U12G1
	Yellow		590	12	20/40	12000	30	441-1021-ND	5.22	4.18	3.66	SSP-13MDB153S12G
	Green		525	12	30/60	20400	30	441-1022-ND	13.50	11.82	10.13	SSP-13MDB152UP12G
13	Red	Water Clear	626	12	80	27000	60	441-1026-ND	9.25	7.40	6.48	SSP-24MB156U12G
	Yellow		590	12	80	18000	60	441-1025-ND	9.25	7.40	6.48	SSP-24MB153S12G
	Green		525	12	30	30000	60	441-1024-ND	24.63	21.56	18.48	SSP-24MB152UP12G
14	Red	Water Clear	626	12	30	27000	60	441-1029-ND	9.25	7.40	6.48	SSP-24MDB156U12G
	Yellow		590	12	30	18000	60	441-1028-ND	9.25	7.40	6.48	SSP-24MDB153S12G
	Green		525	12	30	30000	60	441-1027-ND	24.63	21.56	18.48	SSP-24MDB152UP12G

CHICAGO MINIATURE LAMP, INC.
WHERE INNOVATION COMES TO LIGHT

NEW! LED Incandescent Replacements

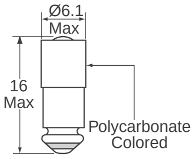
Chicago Miniature Incandescent replacements have extremely high brightness with low current draw. Long life typically 100K hours vs. 10K hours. Storage Temp: -25°C to +80°C Ambient Temp: -20°C to +60°C

Fig. 1



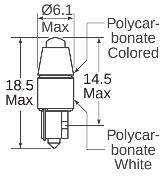
Replaces incandescent lamps:
- 12VDC 394, 330, 382
- 24V DC and 28V DC 327, 376, 385, 387

Fig. 2



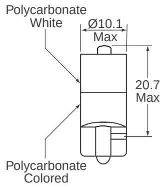
Replaces incandescent lamps:
- 12V DC 336, 386, 393
- 24V DC and 28V DC 276, 334, 388

Fig. 3



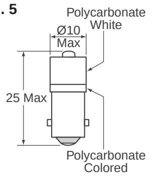
Replaces incandescent lamps:
- 12V AC/DC 18, 37, 70, 73, 74
- 24V AC/DC and 28V AC/DC 17, 85

Fig. 4



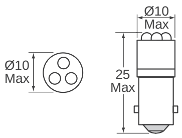
Replaces incandescent lamps:
- 12V AC/DC 192, 124, 158, 161, 168, 193, 194, 658, 184
- 24V AC/DC and 28V AC/DC 152, 400, 464, 585, 655, 656, 657

Fig. 5



Replaces incandescent lamps:
- 12V AC/DC 12MB, 181, 756, 1488, 1815, 1894, 1889, 1891, 1893, 1898
- 24V AC/DC 24MB, 1437, 1818
- 28V AC/DC 313, 757, 1819, 1820, 1829, 1843, 1864, 1873

Fig. 6



Replaces incandescent lamps:
- 24V AC/DC 24MB, 1437, 1818
- 28V AC/DC 313, 757, 1819, 1820, 1829, 1843, 1864, 1873

Fig.	Color	Voltage	Current (mA)	Lumi. Intensity mcd	Wave-length (nm)	Digi-Key Part No.	Price Each 1	10	100	Chicago Mini. Part No.
15101 Series T 1 3/4 Midget Flange Based LED										
1	Red	12DC	14	330	630	L1105-ND	4.60	3.22	2.76	1510125UR3
	Green	12DC	14	910	525	L1104-ND	8.18	5.73	4.91	1510125UG3
	Yellow	12DC	14	280	587	L1106-ND	4.60	3.22	2.76	1510125UY3
	Blue	12DC	14	350	470	L1103-ND	8.18	5.73	4.91	1510125B3
	White Clear	12DC	14	700	—	L1107-ND	8.18	5.73	4.91	1510125W3
	White Diff.	12DC	14	350	—	L1108-ND	8.18	5.73	4.91	1510125W3D
	Red	24DC	14	330	630	L1111-ND	4.80	3.36	2.88	1510135UR3
	Green	24DC	14	910	525	L1110-ND	8.38	5.87	5.03	1510135UG3
	Yellow	24DC	14	280	587	L1112-ND	4.80	3.36	2.88	1510135UY3
	Blue	24DC	14	350	470	L1109-ND	8.38	5.87	5.03	1510135B3
	White Clear	24DC	14	700	—	L1113-ND	8.38	5.87	5.03	1510135W3
	White Diff.	24DC	14	350	—	L1114-ND	8.38	5.87	5.03	1510135W3D
	Red	28DC	14	330	630	L1117-ND	4.80	3.36	2.88	1510145UR3
	Green	28DC	14	910	525	L1116-ND	8.38	5.87	5.03	1510145UG3
	Yellow	28DC	14	280	587	L1118-ND	4.80	3.36	2.88	1510145UY3
	Blue	28DC	14	350	470	L1115-ND	8.38	5.87	5.03	1510145B3
	White Clear	28DC	14	700	—	L1119-ND	8.38	5.87	5.03	1510145W3
	White Diff.	28DC	14	350	—	L1120-ND	8.38	5.87	5.03	1510145W3D
15121 Series T 1 3/4 Midget Groove Based LED										
2	Red	12DC	7/14	330	630	L1123-ND	5.20	3.64	3.12	1512125UR3
	Green	12DC	7/14	910	525	L1122-ND	8.78	6.15	5.27	1512125UG3
	Yellow	12DC	7/14	280	587	L1124-ND	5.20	3.64	3.12	1512125UY3
	Blue	12DC	7/14	350	470	L1121-ND	8.78	6.15	5.27	1512125B3
	White Clear	12DC	7/14	700	—	L1023-ND	8.78	6.15	5.27	1512125W3
	White Diff.	12DC	7/14	350	—	L1024-ND	8.78	6.15	5.27	1512125W3D
	Red	24DC	7/14	330	630	L1027-ND	5.35	3.75	3.21	1512135UR3
	Green	24DC	7/14	910	525	L1026-ND	8.93	6.25	5.36	1512135UG3
	Yellow	24DC	7/14	280	587	L1028-ND	5.35	3.75	3.21	1512135UY3
	Blue	24DC	7/14	350	470	L1025-ND	8.93	6.25	5.36	1512135B3
	White Clear	24DC	7/14	700	—	L1029-ND	8.93	6.25	5.36	1512135W3
	White Diff.	24DC	7/14	350	—	L1030-ND	8.93	6.25	5.36	1512135W3D
	Red	28DC	7/14	330	630	L1033-ND	5.35	3.75	3.21	1512145UR3
	Green	28DC	7/14	910	525	L1032-ND	8.93	6.25	5.36	1512145UG3
	Yellow	28DC	7/14	280	587	L1034-ND	5.35	3.75	3.21	1512145UY3
	Blue	28DC	7/14	350	470	L1031-ND	8.93	6.25	5.36	1512145B3
	White Clear	28DC	7/14	700	—	L1035-ND	8.93	6.25	5.36	1512145W3
	White Diff.	28DC	7/14	350	—	L1036-ND	8.93	6.25	5.36	1512145W3D
1511A Series T 1 3/4 Wedge Based LED										
3	Red	12AC/DC	6/12	280	630	L1039-ND	5.35	3.75	3.21	1511A25UR3
	Green	12AC/DC	6/12	780	525	L1038-ND	8.93	6.25	5.36	1511A25UG3
	Yellow	12AC/DC	6/12	240	587	L1040-ND	5.35	3.75	3.21	1511A25UY3
	Blue	12AC/DC	6/12	300	470	L1037-ND	8.93	6.25	5.36	1511A25B3
	White Clear	12AC/DC	6/12	600	—	L1041-ND	8.93	6.25	5.36	1511A25W3
	White Diff.	12AC/DC	6/12	300	—	L1042-ND	8.93	6.25	5.36	1511A25W3D
	Red	24AC/DC	5/10	230	630	L1045-ND	5.35	3.75	3.21	1511A35UR3
	Green	24AC/DC	5/10	650	525	L1044-ND	8.93	6.25	5.36	1511A35UG3
	Yellow	24AC/DC	5/10	200	587	L1046-ND	5.35	3.75	3.21	1511A35UY3
	Blue	24AC/DC	5/10	250	470	L1043-ND	8.93	6.25	5.36	1511A35B3
	White Clear	24AC/DC	5/10	500	—	L1047-ND	8.93	6.25	5.36	1511A35W3
	White Diff.	24AC/DC	5/10	250	—	L1048-ND	8.93	6.25	5.36	1511A35W3D
	Red	28AC/DC	5/10	230	630	L1051-ND	5.35	3.75	3.21	1511A45UR3
	Green	28AC/DC	5/10	650	525	L1050-ND	8.93	6.25	5.36	1511A45UG3
	Yellow	28AC/DC	5/10	200	587	L1052-ND	5.35	3.75	3.21	1511A45UY3
	Blue	28AC/DC	5/10	250	470	L1049-ND	8.93	6.25	5.36	1511A45B3
	White Clear	28AC/DC	5/10	500	—	L1053-ND	8.93	6.25	5.36	1511A45W3
	White Diff.	28AC/DC	5/10	250	—	L1054-ND	8.93	6.25	5.36	1511A45W3D
1511B Series T 3 1/4 Wedge Based LED										
4	Red	12AC/DC	7/14	330	630	L1057-ND	5.35	3.75	3.21	1511B25UR3
	Green	12AC/DC	7/14	910	525	L1056-ND	8.93	6.25	5.36	1511B25UG3
	Yellow	12AC/DC	7/14	280	587	L1058-ND	5.35	3.75	3.21	1511B25UY3
	Blue	12AC/DC	7/14	350	470	L1055-ND	8.93	6.25	5.36	1511B25B3
	White Clear	12AC/DC	7/14	700	—	L1059-ND	8.93	6.25	5.36	1511B25W3
	White Diff.	12AC/DC	7/14	350	—	L1060-ND	8.93	6.25	5.36	1511B25W3D
	Red	24AC/DC	7/14	330	630	L1063-ND	5.35	3.75	3.21	1511B35UR3
	Green	24AC/DC	7/14	910	525	L1062-ND	8.93	6.25	5.36	1511B35UG3
	Yellow	24AC/DC	7/14	280	587	L1064-ND	5.35	3.75	3.21	1511B35UY3
	Blue	24AC/DC	7/14	350	470	L1061-ND	8.93	6.25	5.36	1511B35B3
	White Clear	24AC/DC	7/14	700	—	L1065-ND	8.93	6.25	5.36	1511B35W3
	White Diff.	24AC/DC	7/14	350	—	L1066-ND	8.93	6.25	5.36	1511B35W3D
	Red	28AC/DC	7/14	330	630	L1069-ND	5.35	3.75	3.21	1511B45UR3
	Green	28AC/DC	7/14	910	525	L1068-ND	8.93	6.25	5.36	1511B45UG3
	Yellow	28AC/DC	7/14	280	587	L1070-ND	5.35	3.75	3.21	1511B45UY3
	Blue	28AC/DC	7/14	350	470	L1067-ND	8.93	6.25	5.36	1511B45B3
	White Clear	28AC/DC	7/14	700	—	L1071-ND	8.93	6.25	5.36	1511B45W3
	White Diff.	28AC/DC	7/14	350	—	L1072-ND	8.93	6.25	5.36	1511B45W3D
18602 Series T 3 1/4 Bayonet Based LED										
5	Red	12AC/DC	15	350	630	L1073-ND	5.88	4.12	3.53	18602250
	Green	12AC/DC	15	1000	525	L1074-ND	9.53	6.67	5.72	18602251
	Yellow	12AC/DC	15	300	587	L1075-ND	5.88	4.12	3.53	18602252
	Blue	12AC/DC	15	400	470	L1076-ND	9.53	6.67	5.72	18602257
	White Clear	12AC/DC	15	750	—	L1077-ND	9.53	6.67	5.72	1860225W3
	White Diff.	12AC/DC	15	375	—	L1078-ND	9.53	6.67	5.72	1860225W3D
	Red	24AC/DC	15	350	630	L1079-ND	5.88	4.12	3.53	18602350
	Green	24AC/DC	15	1000	525	L1080-ND	9.53	6.67	5.72	18602351
	Yellow	24AC/DC	15	300	587	L1081-ND	5.88	4.12	3.53	18602352
	Blue	24AC/DC	15	400	470	L1082-ND	9.53	6.67	5.72	18602357
	White Clear	24AC/DC	15	750	—	L1083-ND	9.53	6.67	5.72	1860235W3
	White Diff.	24AC/DC	15	375	—	L1084-ND	9.53	6.67	5.72	1860235W3D
	Red	28AC/DC	15	350	630	L1085-ND	5.88	4.12	3.53	18602450
	Green	28AC/DC	15	1000	525	L1086-ND	9.53	6.67	5.72	18602451
	Yellow	28AC/DC	15	300	587	L1087-ND	5.88	4.12	3.53	18602452
	Blue	28AC/DC	15	400	470	L1088-ND	9.53	6.67	5.72	18602457
	White Clear	28AC/DC	15	750	—	L1089-ND	9.53	6.67	5.72	1860245W3
	White Diff.	28AC/DC	15	375	—	L1090-ND	9.53	6.67	5.72	1860245W3D
18620 Series T 3 1/4 Bayonet Based Multi LED										
6	Red	24AC/DC	9/17	3 x 400	630	L1091-ND	12.10	8.47	7.26	18620350
	Green	24AC/DC	5/10	3 x 680	525	L1092-ND	22.70	15.89	13.62	18620351
	Yellow	24AC/DC	9/17	3 x 350	587	L1093-ND	12.10	8.47	7.26	18620352
	Blue	24AC/DC	9/17	3 x 450	470	L1094-ND	22.70	15.89	13.62	18620357
	White Clear	24AC/DC	9/17	3 x 850	—	L1095-ND	22.70	15.89	13.62	1862035W3
	White Diff.	24AC/DC	9/17	3 x 425	—	L1096-ND	22.70	15.89	13.62	1862035W3D
	Red	28AC/DC	9/17	3 x 400	630	L1097-ND	12.10	8.47	7.26	18620450
	Green	28AC/DC	5/10	3 x 680	525	L1098-ND	22.70	15.89	13.62	18620451
	Yellow	28AC/DC	9/17	3 x 350	587	L1099-ND	12.10	8.47	7.26	18620452
	Blue	28AC/DC	9/17	3 x 450	470	L1100-ND	22.70	15.89	13.62	18620457
	White Clear	28AC/DC	9/17	3 x 850	—	L1101-ND	22.70	15.89	13.62	1862045W3
	White Diff.	28AC/DC	9/17	3 x 425	—	L1102-ND	22.70	15.89	13.62	1862045W3D

Dialight LEDs

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		Dialight Part No.
							1	25	100		Size	Pricing	
1	AlGaAs Red	660	17.0	1.7	20.0	350-1344-1-ND	.45	.38	.30	350-1344-2-ND	2,500	199.50/M	597-3111-407
	Green	560	7.5	2.1	20.0	350-1345-1-ND	.45	.38	.30	350-1345-2-ND	2,500	199.50/M	597-3311-407
	Yellow	580	6.0	2.2	20.0	350-1346-1-ND	.45	.38	.30	350-1346-2-ND	2,500	199.50/M	597-3401-407
2	Red	630	4.0	2.0	20.0	350-1347-1-ND	.54	.45	.36	350-1347-2-ND	3,000	239.40/M	597-3001-107
	Green	565	12.0	2.0	20.0	350-1348-1-ND	.54	.45	.36	350-1348-2-ND	3,000	239.40/M	597-3301-107
	Yellow	585	8.0	2.1	20.0	350-1349-1-ND	.60	.50	.40	350-1349-2-ND	3,000	266.00/M	597-3401-107
3	Red/Green	630/565	4.0/12.0	2.0/2.0	20.0	350-1350-1-ND	.78	.65	.52	350-1350-2-ND	3,000	345.80/M	597-7701-107
	Yellow/Green	585/565	8.0/12.0	2.1/2.0	20.0	350-1351-1-ND	.87	.73	.58	350-1351-2-ND	3,000	385.70/M	597-7721-107
	Red/Yellow	630/585	4.0/8.0	2.0/2.1	20.0	350-1352-1-ND	.78	.65	.52	350-1352-2-ND	3,000	345.80/M	597-7731-107
4	Green	565	8.0	2.1	20.0	350-1353-1-ND	.54	.45	.36	350-1353-2-ND	2,000	239.40/M	597-3301-207
	AlGaAs Red	660	20.0	1.75	10.0	350-1354-1-ND	.66	.55	.44	350-1354-2-ND	2,000	292.60/M	597-3121-207
	Yellow	586	6.0	2.1	20.0	350-1355-1-ND	.54	.45	.36	350-1355-2-ND	2,000	239.40/M	597-3401-207
	Red	635	8.0	2.0	20.0	350-1356-1-ND	.54	.45	.36	350-1356-2-ND	2,000	239.40/M	597-3001-207
5	Red/Green	635/565	6.0/9.4	2.0/2.0	10.0	350-1357-1-ND	.81	.68	.54	350-1357-2-ND	2,000	400.00/M	597-7701-207
	Yellow/Green	585/565	4.0/9.4	2.0/2.0	10.0	350-1358-1-ND	.81	.68	.54	350-1358-2-ND	2,000	359.10/M	597-7721-207
	Red/Yellow	635/586	7.3/6.8	2.0/2.0	10.0	350-1359-1-ND	.81	.68	.54	350-1359-2-ND	2,000	359.10/M	597-7731-207
6	AlGaAs Red	640	25.0	1.7	20.0	350-1341-1-ND	1.35	1.13	.90	350-1341-2-ND	600	378.00	595-2101-007
	Green	567	11.0	2.1	20.0	350-1342-1-ND	1.35	1.13	.90	350-1342-2-ND	600	378.00	595-2301-007
	Yellow	588	9.0	2.2	20.0	350-1343-1-ND	1.35	1.13	.90	350-1343-2-ND	600	378.00	595-2401-007
7	Red	628	5.0	2.0	10.0	350-1334-1-ND	1.29	1.08	.86	350-1334-2-ND	1,600	602.00/M	591-2001-013
	AlGaAs Red	645	14.0	1.75	10.0	350-1335-1-ND	1.35	1.13	.90	350-1335-2-ND	1,600	630.00/M	591-2101-013
	Green	570	4.0	2.0	10.0	350-1336-1-ND	1.29	1.08	.86	350-1336-2-ND	1,600	602.00/M	591-2301-013
	Yellow	590	5.0	2.0	10.0	350-1337-1-ND	1.29	1.08	.86	350-1337-2-ND	1,600	602.00/M	591-2401-013
8	Green	570	8.0	2.0	10.0	350-1360-1-ND	1.29	1.08	.86	350-1360-2-ND	1,600	571.90/M	591-2301-113
	AlGaAs Red	645	24.0	1.75	10.0	350-1361-1-ND	1.35	1.13	.90	350-1361-2-ND	1,600	598.50/M	591-2101-113
	Yellow	590	8.0	2.0	10.0	350-1362-1-ND	1.29	1.08	.86	350-1362-2-ND	1,600	571.90/M	591-2401-113
9	Red/Green	628/570	6.5/8.0	2.0/2.0	20.0	350-1338-1-ND	2.40	2.00	1.60	350-1338-2-ND	1,600	1120.00/M	591-3001-013
	Yellow/Green	586/570	6.5/8.0	2.0/2.0	20.0	350-1339-1-ND	2.40	2.00	1.60	350-1339-2-ND	1,600	1120.00/M	591-3101-013
	Red/Yellow	628/586	6.5/6.5	2.0/2.0	20.0	350-1340-1-ND	2.40	2.00	1.60	350-1340-2-ND	1,600	1120.00/M	591-3201-013

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
							1	25	100	
10	Red	635	10.0	2.0	20.0	350-1363-ND	.60	.50	.40	521-9216
	Orange	600	7	2.2	20.0	350-1364-ND	.39	.33	.26	521-9498
	Green	565	12.6	2.1	20.0	350-1365-ND	.60	.50	.40	521-9210
	Yellow	583	10.0	2.2	20.0	350-1366-ND	.60	.50	.40	521-9211
11	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1367-ND	1.50	1.25	1.00	521-9450
12	Red	650	1.2	1.6	20.0	350-1137-ND	1.02	.85	.68	555-2001
	Green	565	1.0	2.4	20.0	350-1147-ND	1.05	.88	.70	555-2301
	Yellow	583	2.0	2.2	20.0	350-1149-ND	1.05	.88	.70	555-2401
	Red	650	1.9	5.0	6.0	350-1139-ND	1.14	.95	.76	555-2003
	Red	650	0.9	5.0	3.0	350-1143-ND	1.14	.95	.76	555-2007
	Red	650	0.6	5.0	1.0	350-1145-ND	1.20	1.00	.80	555-2009
	Green	565	2.5	5.0	4.7	350-1148-ND	1.20	1.00	.80	555-2303
	Yellow	583	2.1	5.0	4.7	350-1150-ND	1.20	1.00	.80	555-2403
	Red	650	4.2	10.0	14.0	350-1141-ND	1.14	.95	.76	555-2005
	Red	650	0.9	24.0	3.0	350-1144-ND	1.14	.95	.76	555-2008
13	Red	650	1.2	1.6	20.0	350-1151-ND	1.50	1.25	1.00	555-3001
	Green	565	1.0	2.4	20.0	350-1160-ND	1.80	1.50	1.20	555-3301
	Yellow	583	2.0	2.2	20.0	350-1162-ND	1.80	1.50	1.20	555-3401
	Red	650	1.9	5.0	6.0	350-1153-ND	1.65	1.38	1.10	555-3003
	Red	650	0.9	5.0	3.0	350-1156-ND	1.65	1.38	1.10	555-3007
	Red	650	0.6	5.0	1.0	350-1158-ND	1.74	1.45	1.16	555-3009
	Green	565	2.5	5.0	4.7	350-1161-ND	1.95	1.63	1.30	555-3303
	Yellow	583	2.1	5.0	4.7	350-1163-ND	1.95	1.63	1.30	555-3403
	Red	650	0.9	24.0	3.0	350-1157-ND	1.65	1.38	1.10	555-3008
14	Red	650	1.2	1.6	20.0	350-1373-ND	4.14	3.45	2.76	555-4001
	Green	565	1.0	2.4	20.0	350-1374-ND	4.80	4.00	3.20	555-4301
	Yellow	583	2.0	2.2	20.0	350-1375-ND	4.80	4.00	3.20	555-4401
	Red	650	1.9	5.0	6.0	350-1368-ND	4.68	3.90	3.12	555-4003
	Red	650	0.9	5.0	3.0	350-1369-ND	4.68	3.90	3.12	555-4007
	Green	565	2.5	5.0	4.7	350-1370-ND	4.80	4.00	3.20	555-4303
	Yellow	583	2.1	5.0	4.7	350-1371-ND	4.80	4.00	3.20	555-4403
15	Red	650	1.9	5.0	6.0	350-1376-ND	6.93	5.78	4.62	555-5003
	Red	650	1.2	1.6	20.0	350-1377-ND	6.09	5.08	4.06	555-5001
	Green	565	1.0	2.4	20.0	350-1378-ND	7.20	6.00	4.80	555-5301
	Yellow	583	2.0	2.2	20.0	350-1379-ND	7.20	6.00	4.80	555-5401
16	Green	565	8.7	2.1	20.0	350-1380-ND	2.55	2.13	1.70	570-0100-222
	Red	635	12.6	2.0	20.0	350-1381-ND	2.55	2.13	1.70	570-0100-111
	Yellow	585	12.6	2.1	20.0	350-1382-ND	2.55	2.13	1.70	570-0100-333
	Red/Ylw./Grn.	635/585/565	12.6/12.6/8.7	2.0/2.1/2.1	20.0	350-1383-ND	2.55	2.13	1.70	570-0100-132
17	Green	563	16.0	2.1	10.0	350-1384-ND	.69	.58	.46	551-0207
	Yellow	585	6.3	2.1	10.0	350-1385-ND	.69	.58	.46	551-0307
	Red	650	10.0	2.0	10.0	350-1386-ND	.69	.58	.46	551-0407
	Green	565	8.0	5.0	12.0	350-1387-ND	1.05	.88	.70	551-0607
	Red	635	4.0	5.0	10.0	350-1388-ND	1.05	.88	.70	551-0507
	Yellow	583	8.0	5.0	10.0	350-1389-ND	1.05	.88	.70	551-0707
	Red	635	1.8	1.8	2.0	350-1390-ND	.90	.75	.60	551-1107
	Green	565	1.6	1.8	2.0	350-1391-ND	.90	.75	.60	551-1307
	Yellow	583	1.6	1.9	2.0	350-1392-ND	.90	.75	.60	551-1207
	Red/Green	635/565	5.0	2.0	10.0	350-1393-ND	1.65	1.38	1.10	551-3007
	Yellow/Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1394-ND	1.65	1.38	1.10	551-3107
18	Green	563	16.0	2.1	10.0	350-1084-ND	.81	.68	.54	551-0209
	Yellow	585	6.3	2.1	10.0	350-1086-ND	.81	.68	.54	551-0309
	Red	650	10.0	2.0	10.0	350-1088-ND	.81	.68	.54	551-0409
	Orange	600	6.5	2.2	10.0	350-1102-ND	.90	.75	.60	551-2509
	Red	635	4.0	5.0	10.0	350-1090-ND	1.17	.98	.78	551-0509
	Green	565	8.0	5.0	12.0	350-1092-ND	1.17	.98	.78	551-0609
	Yellow	583	8.0	5.0	10.0	350-1094-ND	1.17	.98	.78	551-0709
	Red	635	1.8	1.8	2.0	350-1096-ND	.90	.75	.60	551-1109
	Yellow	583	1.6	1.9	2.0	350-1098-ND	.90	.75	.60	551-1209
	Green	565	1.6	1.8	2.0	350-1100-ND	.90	.75	.60	551-1309
	Red/Green	635/565	5.0	2.0	10.0	350-1104-ND	1.53	1.28	1.02	551-3009
	Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1106-ND	1.77	1.48	1.18	551-3109
19	Green	563	16.0	2.1	10.0	350-1083-ND	3.12	2.60	2.08	551-0207-004
	Yellow	585	6.3	2.1	10.0	350-1085-ND	3.12	2.60	2.08	551-0307-004
	Red	650	10.0	2.0	10.0	350-1087-ND	3.12	2.60	2.08	551-0407-004
	Orange	600	6.5	2.2	10.0	350-1101-ND	3.12	2.60	2.08	551-2507-004
	Red	635	4.0	5.0	10.0	350-1089-ND	4.47	3.73	2.98	551-0507-004
	Green	565	8.0	5.0	12.0	350-1091-ND	4.47	3.73	2.98	551-0607-004
	Yellow	583	8.0	5.0	10.0	350-1093-ND	4.47	3.73	2.98	551-0707-004

Fig. 1

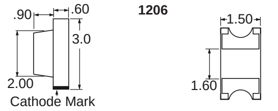


Fig. 2

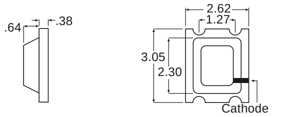


Fig. 3 Bi-Color

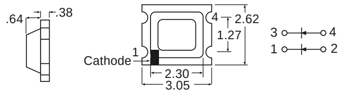


Fig. 4

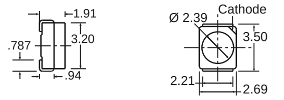


Fig. 5 Bi-Color

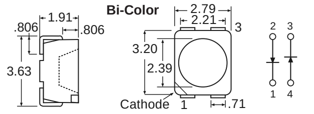


Fig. 6

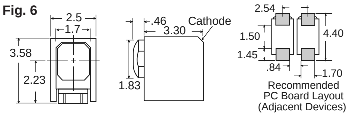


Fig. 7

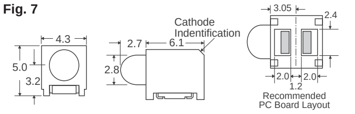


Fig. 8

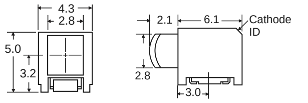


Fig. 9 Bi-Color

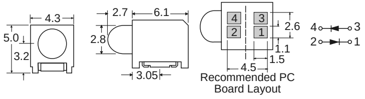


Fig. 10

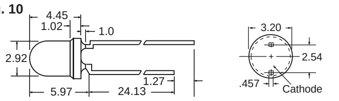


Fig. 11

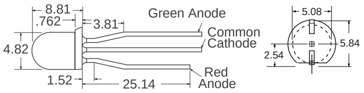


Fig. 12

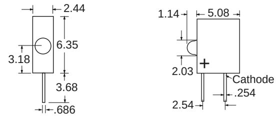


Fig. 13

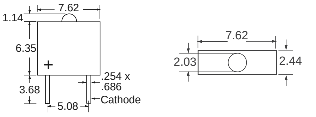
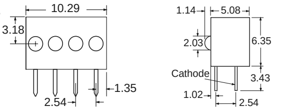


Fig. 14



(Continued)

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
							1	25	100	
19	Red	635	1.8	1.8	2.0	350-1095-ND	4.05	3.38	2.70	551-1107-004
	Yellow	583	1.6	1.9	2.0	350-1097-ND	4.05	3.38	2.70	551-1207-004
	Green	565	1.6	1.8	2.0	350-1099-ND	4.05	3.38	2.70	551-1307-004
	Red/Green	635/565	5.0	2.0	10.0	350-1103-ND	7.41	6.18	4.94	551-3007-004
	Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1105-ND	7.41	6.18	4.94	551-3107-004
20	Red	650	10.0	2.0	10.0	350-1395-ND	1.53	1.28	1.02	553-0111
	Green	563	16.0	2.1	10.0	350-1399-ND	1.53	1.28	1.02	553-0122
	Yellow	585	6.3	2.1	10.0	350-1400-ND	1.53	1.28	1.02	553-0133
	Grn.(top) / Red(bot)	563/650	16.0/10.0	2.1/2.0	10.0	350-1396-ND	1.53	1.28	1.02	553-0121
	Grn.(top) / Ylw.(bot)	563/585	16.0/6.3	2.1/2.1	10.0	350-1397-ND	1.53	1.28	1.02	553-0123
	Ylw.(top) / Grn.(bot)	585/563	6.3/16.0	2.1/2.1	10.0	350-1398-ND	1.53	1.28	1.02	553-0132
	Red	635	1.8	1.8	2.0	350-1401-ND	1.68	1.40	1.12	553-0211
	Green	565	1.6	1.8	2.0	350-1402-ND	1.68	1.40	1.12	553-0222
	Yellow	583	1.6	1.9	2.0	350-1404-ND	1.68	1.40	1.12	553-0233
	Grn.(top) / Ylw.(bot)	565/583	1.6/1.6	1.8/1.9	2.0	350-1403-ND	1.68	1.40	1.12	553-0223
	Green	565	8.0	5.0	12.0	350-1405-ND	1.80	1.50	1.20	553-0322
	Red	635	4.0	5.0	10.0	350-1406-ND	1.80	1.50	1.20	553-0311
	Yellow	583	8.0	5.0	10.0	350-1407-ND	1.80	1.50	1.20	553-0333
	2x Red/Green	635/565	5.0	2.0	10.0	350-1408-ND	2.25	1.88	1.50	553-0711
	2x Ylw./Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1409-ND	2.25	1.88	1.50	553-0744
21	Red	650	10.0	2.0	10.0	350-1122-ND	1.53	1.28	1.02	553-0111-300
	Green	563	16.0	2.1	10.0	350-1123-ND	1.53	1.28	1.02	553-0122-300
	Yellow	585	6.3	2.1	10.0	350-1124-ND	1.53	1.28	1.02	553-0133-300
	Orange	600	6.5	2.2	10.0	350-1125-ND	1.53	1.28	1.02	553-0177-300
	Red	635	1.8	1.8	2.0	350-1126-ND	1.68	1.40	1.12	553-0211-300
	Green	565	1.6	1.8	2.0	350-1127-ND	1.68	1.40	1.12	553-0222-300
	Yellow	583	1.6	1.9	2.0	350-1128-ND	1.68	1.40	1.12	553-0233-300
	Red	635	4.0	5.0	10.0	350-1129-ND	1.80	1.50	1.20	553-0311-300
	Green	565	8.0	5.0	12.0	350-1130-ND	1.80	1.50	1.20	553-0322-300
	Yellow	583	8.0	5.0	10.0	350-1131-ND	1.80	1.50	1.20	553-0333-300
	2x Red/Green	635/565	5.0	2.0	10.0	350-1132-ND	2.25	1.88	1.50	553-0711-300
	2x Yellow/Green	585/565	4.3/6.3	2.1	10.0	350-1133-ND	2.25	1.88	1.50	553-0744-300
	Red Clear	635	12.0	2.2	10.0	350-1134-ND	1.68	1.40	1.12	553-2211-300
	Green Clear	565	12.0	2.3	10.0	350-1135-ND	1.68	1.40	1.12	553-2222-300
	Yellow Clear	583	12.0	2.2	10.0	350-1136-ND	1.68	1.40	1.12	553-2233-300
22	Red	635	10.0	2.2	10.0	350-1330-ND	1.65	1.38	1.10	569-0111-100
	Green	565	8.5	2.3	10.0	350-1331-ND	1.65	1.38	1.10	569-0112-200
	Yellow	583	10.0	2.2	10.0	350-1332-ND	1.65	1.38	1.10	569-0113-300
	Orange	600	6.5	2.2	10.0	350-1333-ND	1.65	1.38	1.10	569-0117-700
23	Red	635	10.0	2.2	10.0	350-1326-ND	2.55	2.13	1.70	569-0101-111
	Green	565	8.5	2.3	10.0	350-1327-ND	2.55	2.13	1.70	569-0102-222
	Yellow	583	10.0	2.2	10.0	350-1328-ND	2.55	2.13	1.70	569-0103-333
	Orange	600	6.5	2.2	10.0	350-1329-ND	2.55	2.13	1.70	569-0107-777
24	Red	635	10.0	2.2	10.0	350-1274-ND	2.55	2.13	1.70	564-0100-111
	Red/Ylw./Grn.	635/583/565	10.0/10.0/8.5	2.2/2.2/2.3	10.0	350-1275-ND	2.55	2.13	1.70	564-0100-132
	Green	565	8.5	2.3	10.0	350-1276-ND	2.55	2.13	1.70	564-0100-222
	Orange	600	6.5	2.2	10.0	350-1277-ND	2.55	2.13	1.70	564-0100-777
	Red	635	1.8	1.8	2.0	350-1278-ND	2.82	2.35	1.88	564-0200-111
	Red/Ylw./Grn.	635/583/565	1.8/1.6/1.6	1.8/1.9/1.8	2.0	350-1279-ND	2.82	2.35	1.88	564-0200-132
	Green	565	1.6	1.8	2.0	350-1280-ND	2.82	2.35	1.88	564-0200-222
	Red	635	4.0	5.0	10.0	350-1281-ND	2.88	2.40	1.92	564-0300-111
	Red/Ylw./Grn.	635/583/565	4.0/8.0/8.0	5.0	10.0/10.0/12.0	350-1282-ND	2.88	2.40	1.92	564-0300-132
	Green	565	8.0	5.0	12.0	350-1283-ND	2.88	2.40	1.92	564-0300-222
	3x Red/Green	635/565	5.0	2.0	10.0	350-1284-ND	3.75	3.13	2.50	564-0700-111
	3x Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1285-ND	3.75	3.13	2.50	564-0700-444
25	Red/Green	630/560	4.0	2.0/2.1	20.0	350-1410-ND	1.80	1.50	1.20	551-3508
26	Green	565	12.3	2.1	20.0	350-1003-ND	.69	.58	.46	550-0207
	Yellow	585	12.3	2.1	20.0	350-1007-ND	.69	.58	.46	550-0307
	Red	635	12.3	2.0	20.0	350-1011-ND	.69	.58	.46	550-0407
	Red	655	2.0	5.0	13.0	350-1015-ND	.96	.80	.64	550-0507
	Green	565	8.0	5.0	12.0	350-1019-ND	.96	.80	.64	550-0707
	Yellow	583	8.0	5.0	10.0	350-1023-ND	.96	.80	.64	550-0807
	Red	635	2.0	1.8	2.0	350-1027-ND	.90	.75	.60	550-1107
	Yellow	583	1.8	1.9	2.0	350-1031-ND	.90	.75	.60	550-1207
	Green	565	1.8	1.8	2.0	350-1035-ND	.90	.75	.60	550-1307
	Green	563	10.0	2.1	10.0	350-1039-ND	.75	.63	.50	550-2207
	Yellow	585	6.3	2.1	10.0	350-1043-ND	.75	.63	.50	550-2307
	Red	650	7.0	2.2	10.0	350-1047-ND	.75	.63	.50	550-2407
	Orange	600	7.0	1.9	10.0	350-1051-ND	.75	.63	.50	550-2507
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1055-ND	1.68	1.40	1.12	550-3007
	Red	650	34.0	2.1	20.0	350-1061-ND	.90	.75	.60	550-5107
	Green	563	34.0	2.2	20.0	350-1065-ND	.90	.75	.60	550-5207
	Yellow	585	34.0	2.2	20.0	350-1069-ND	.90	.75	.60	550-5307
	Red Clear	635	125.0	2.2	20.0	350-1073-ND	.96	.80	.64	550-5507
	Green Clear	565	120.0	2.3	20.0	350-1077-ND	.96	.80	.64	550-5607
	Yellow Clear	583	140.0	2.2	20.0	350-1081-ND	.96	.80	.64	550-5707
27	Green	565	12.3	2.1	20.0	350-1002-ND	.69	.58	.46	550-0205
	Yellow	585	12.3	2.1	20.0	350-1006-ND	.69	.58	.46	550-0305
	Red	635	12.3	2.0	20.0	350-1010-ND	.69	.58	.46	550-0405
	Red	655	2.0	5.0	13.0	350-1014-ND	.96	.80	.64	550-0505
	Green	565	8.0	5.0	12.0	350-1018-ND	.96	.80	.64	550-0705
	Yellow	583	8.0	5.0	10.0	350-1022-ND	.96	.80	.64	550-0805
	Red	635	2.0	1.8	2.0	350-1026-ND	.90	.75	.60	550-1105
	Yellow	583	1.8	1.9	2.0	350-1030-ND	.90	.75	.60	550-1205
	Green	565	1.8	1.8	2.0	350-1034-ND	.90	.75	.60	550-1305
	Green	563	10.0	2.1	10.0	350-1038-ND	.75	.63	.50	550-2205
	Yellow	585	6.3	2.1	10.0	350-1042-ND	.75	.63	.50	550-2305
	Red	650	7.0	2.2	10.0	350-1046-ND	.75	.63	.50	550-2405
	Orange	600	7.0	1.9	10.0	350-1050-ND	.75	.63	.50	550-2505
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1054-ND	1.68	1.40	1.12	550-3005
	Red	650	34.0	2.1	20.0	350-1060-ND	.90	.75	.60	550-5105
	Green	563	34.0	2.2	20.0	350-1064-ND	.90	.75	.60	550-5205
	Yellow	585	34.0	2.2	20.0	350-1068-ND	.90	.75	.60	550-5305
	Red Clear	635	125.0	2.2	20.0	350-1072-ND	.96	.80	.64	550-5505
	Green Clear	565	120.0	2.3	20.0	350-1076-ND	.96	.80	.64	550-5605
	Yellow Clear	583	140.0	2.2	20.0	350-1080-ND	.96	.80	.64	550-5705
28	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1057-ND	2.01	1.68	1.34	550-3509
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1058-ND	2.01	1.68	1.34	550-3609
29	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1411-ND	2.01	1.68	1.34	550-3505
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1412-ND	2.01	1.68	1.34	550-3605
30	Green	565	12.3	2.1	20.0	350-1004-ND	3.18	2.65	2.12	550-0207-004
	Yellow	585	12.3	2.1	20.0	350-1008-ND	3.18	2.65	2.12	550-0307-004
	Red	635	12.3	2.0	20.0	350-1012-ND	3.18	2.65	2.12	550-0407-004
	Red	655	2.0	5.0	13.0	350-1016-ND	4.02	3.35	2.68	550-0507-004
	Green	565	8.0	5.0	12.0	350-1020-ND	4.02	3.35	2.68	550-0707-004
	Yellow	583	8.0	5.0	10.0	350-1024-ND	4.02	3.35	2.68	550-0807-004
	Red	635	2.0	1.8	2.0	350-1028-ND	3.75	3.13	2.50	550-1107-004
	Yellow	583	1.8	1.9	2.0	350-1032-ND	3.75	3.13	2.50	550-1207-004
	Green	565	1.8	1.8	2.0	350-1036-ND	3.75	3.13	2.50	550-1307-004
	Green	563	10.0	2.1	10.0	350-1040-ND	3.30	2.75	2.20	550-2207-004
	Yellow	585	6.3	2.1	10.0	350-1044-ND	3.30	2.75	2.20	550-2307-004

Fig. 15

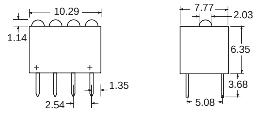


Fig. 16

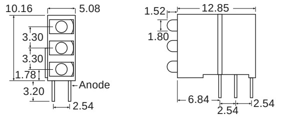


Fig. 17

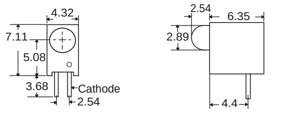


Fig. 18

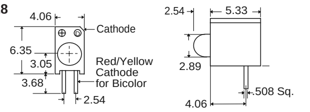


Fig. 19

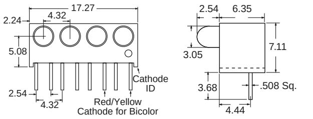


Fig. 20

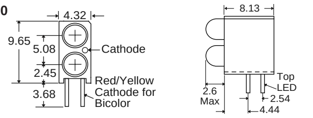


Fig. 21

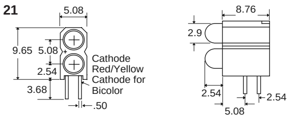


Fig. 22

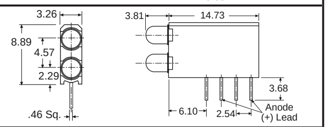


Fig. 23

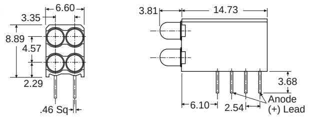


Fig. 24

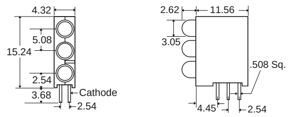


Fig. 25

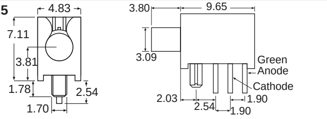
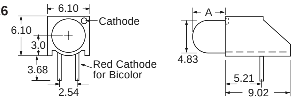
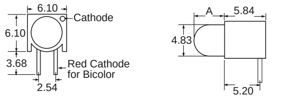


Fig. 26



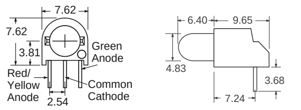
Dim. A: 3.43 for 550-0207 to 0407, 5.0 for all others

Fig. 27



Dim. A: 3.43 for 550-0205 to 0405, 5.0 for all others

Fig. 28



(Continued)

Dialight **LEDs** *(Cont.)*

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
							1	25	100	
30	Red	650	7.0	2.2	10.0	350-1048-ND	3.30	2.75	2.20	550-2407-004
	Orange	600	7.0	1.9	10.0	350-1052-ND	3.30	2.75	2.20	550-2507-004
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1056-ND	7.38	6.15	4.92	550-3007-004
	Red	650	34.0	2.1	20.0	350-1062-ND	3.75	3.13	2.50	550-5107-004
	Green	563	34.0	2.2	20.0	350-1066-ND	3.75	3.13	2.50	550-5207-004
	Yellow	585	34.0	2.2	20.0	350-1070-ND	3.75	3.13	2.50	550-5307-004
	Red Clear	635	125.0	2.2	20.0	350-1074-ND	4.02	3.35	2.68	550-5507-004
	Green Clear	565	120.0	2.3	20.0	350-1078-ND	4.02	3.35	2.68	550-5607-004
	Yellow Clear	583	140.0	2.2	20.0	350-1082-ND	4.02	3.35	2.68	550-5707-004
31	Red	650	7.0	2.2	10.0	350-1107-ND	1.53	1.28	1.02	552-0211
	Green	563	10.0	2.1	10.0	350-1108-ND	1.53	1.28	1.02	552-0222
	Yellow	585	6.3	2.1	10.0	350-1109-ND	1.53	1.28	1.02	552-0233
	Orange	600	7.0	1.9	10.0	350-1110-ND	1.53	1.28	1.02	552-0277
	Red	655	2.0	5.0	13.0	350-1111-ND	1.80	1.50	1.20	552-0311
	Green	565	8.0	5.0	12.0	350-1112-ND	1.80	1.50	1.20	552-0322
	Yellow	583	8.0	5.0	10.0	350-1113-ND	1.80	1.50	1.20	552-0333
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1114-ND	2.25	1.88	1.50	552-0711
	Yellow/Green	585/565	8.7/8.7	2.1/2.1	20.0	350-1115-ND	2.25	1.88	1.50	552-0744
	Red	650	34.0	2.1	20.0	350-1116-ND	1.68	1.40	1.12	552-0811
	Green	563	34.0	2.2	20.0	350-1117-ND	1.68	1.40	1.12	552-0822
	Yellow	585	34.0	2.2	20.0	350-1118-ND	1.68	1.40	1.12	552-0833
	Red	635	2.0	1.8	2.0	350-1119-ND	1.68	1.40	1.12	552-0911
	Green	565	1.8	1.8	2.0	350-1120-ND	1.68	1.40	1.12	552-0922
	Yellow	583	1.8	1.9	2.0	350-1121-ND	1.68	1.40	1.12	552-0933
32	2x Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1413-ND	3.75	3.13	2.50	552-3511
	2x Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1414-ND	3.75	3.13	2.50	552-3544
33	Green	565	12.3	2.1	20.0	350-1001-ND	.84	.70	.56	550-0204
	Yellow	585	12.3	2.1	20.0	350-1005-ND	.84	.70	.56	550-0304
	Red	635	12.3	2.0	20.0	350-1009-ND	.84	.70	.56	550-0404
	Red	655	2.0	5.0	13.0	350-1013-ND	1.17	.98	.78	550-0504
	Green	565	8.0	5.0	12.0	350-1017-ND	1.17	.98	.78	550-0704
	Yellow	583	8.0	5.0	10.0	350-1021-ND	1.17	.98	.78	550-0804
	Red	635	2.0	1.8	2.0	350-1025-ND	1.08	.90	.72	550-1104
	Yellow	583	1.8	1.9	2.0	350-1029-ND	1.08	.90	.72	550-1204
	Green	565	1.8	1.8	2.0	350-1033-ND	1.08	.90	.72	550-1304
	Green	563	10.0	2.1	10.0	350-1037-ND	.99	.83	.66	550-2204
	Yellow	585	6.3	2.1	10.0	350-1041-ND	.99	.83	.66	550-2304
	Red	650	7.0	2.2	10.0	350-1045-ND	.99	.83	.66	550-2404
	Orange	600	7.0	1.9	10.0	350-1049-ND	.75	.63	.50	550-2504
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1053-ND	1.92	1.60	1.28	550-3004
	Red	650	34.0	2.1	20.0	350-1059-ND	1.08	.90	.72	550-5104
	Green	563	34.0	2.2	20.0	350-1063-ND	1.08	.90	.72	550-5204
	Yellow	585	34.0	2.2	20.0	350-1067-ND	1.08	.90	.72	550-5304
	Red Clear	635	125.0	2.2	20.0	350-1071-ND	1.14	.95	.76	550-5504
	Green Clear	565	120.0	2.3	20.0	350-1075-ND	1.14	.95	.76	550-5604
	Yellow Clear	583	140.0	2.2	20.0	350-1079-ND	1.14	.95	.76	550-5704
34	Red	635	8.0	5.0	10.0	350-1171-ND	.84	.70	.56	561-0104-100
	Red	635	2.0	1.8	2.0	350-1183-ND	.78	.65	.52	561-1101-100
	Green	565	1.8	1.8	2.0	350-1195-ND	.78	.65	.52	561-1301-100
	Yellow	583	1.8	1.9	2.0	350-1189-ND	.78	.65	.52	561-1201-100
	Orange	600	7.0	1.9	10.0	350-1177-ND	1.14	.95	.76	561-0901-100
	Red	635	7.0	2.2	10.0	350-1201-ND	.72	.60	.48	561-2101-100
	Green	565	32.0	2.0	20.0	350-1207-ND	.78	.65	.52	561-2201-100
	Yellow	590	10.0	2.4	20.0	350-1213-ND	.72	.60	.48	561-2301-100
	Red Tinted	635	60.0	2.2	10.0	350-1219-ND	.72	.60	.48	561-2401-100
	Green Tinted	565	70.0	2.3	10.0	350-1225-ND	.72	.60	.48	561-2501-100
	Yellow Tinted	583	50.0	2.2	10.0	350-1231-ND	.72	.60	.48	561-2601-100
	Red	650	34.0	2.1	20.0	350-1243-ND	.78	.65	.52	561-5101-100
	Green	563	34.0	2.2	20.0	350-1249-ND	.78	.65	.52	561-5201-100
	Yellow	585	34.0	2.2	20.0	350-1255-ND	.78	.65	.52	561-5301-100
	Red Clear	635	125.0	2.2	20.0	350-1261-ND	.84	.70	.56	561-5501-100
	Green Clear	565	120.0	2.3	20.0	350-1267-ND	.84	.70	.56	561-5601-100
	Yellow Clear	583	140.0	2.2	20.0	350-1273-ND	.84	.70	.56	561-5701-100
35	Green	565	4.0	2.2	20.0	350-1286-ND	1.23	1.03	.82	566-0206
	Yellow	583	3.5	2.1	20.0	350-1288-ND	1.23	1.03	.82	566-0306
	Red	635	6.0	2.0	20.0	350-1164-ND	1.23	1.03	.82	566-0406
36	Green	565	4.0	2.2	20.0	350-1287-ND	1.17	.98	.78	566-0207
	Yellow	583	3.5	2.1	20.0	350-1289-ND	1.17	.98	.78	566-0307
	Red	635	7.4	2.0	20.0	350-1165-ND	1.17	.98	.78	566-0407
37	Red/Green	635/565	3.5/4.0	1.9/2.1	20.0	350-1290-ND	2.34	1.95	1.56	566-3507
38	Red	635	5.0	1.9	20.0	350-1232-ND	1.62	1.35	1.08	561-4101-055
	Green	565	2.5	2.3	20.0	350-1234-ND	1.62	1.35	1.08	561-4201-055
	Yellow	583	5.0	2.1	20.0	350-1236-ND	1.62	1.35	1.08	561-4301-055
	Red	635	5.0	1.9	20.0	350-1233-ND	1.71	1.43	1.14	561-4101-081
	Green	565	2.5	2.3	20.0	350-1235-ND	1.71	1.43	1.14	561-4201-081
	Yellow	583	5.0	2.1	20.0	350-1237-ND	1.71	1.43	1.14	561-4301-081
39	Red	635	10.0	2.2	10.0	350-1291-ND	3.15	2.63	2.10	568-0101-111
	Green	565	8.5	2.3	10.0	350-1292-ND	3.15	2.63	2.10	568-0102-222
	Grn./Ylw./Grn./Ylw.	565/583	8.5/10.0	2.1/2.2	10.0	350-1293-ND	3.15	2.63	2.10	568-0102-323
	Ylw./Grn./Ylw./Grn.	583/565	10.0/8.5	2.1/2.2	10.0	350-1294-ND	3.15	2.63	2.10	568-0103-232
	Orange	600	6.5	2.2	10.0	350-1295-ND	3.15	2.63	2.10	568-0107-777
	Red	635	1.8	1.8	2.0	350-1299-ND	3.51	2.93	2.34	568-0201-111
	Green	565	1.6	1.8	2.0	350-1300-ND	3.51	2.93	2.34	568-0202-222
	Grn./Ylw./Grn./Ylw.	565/583	1.6	1.8/1.9	2.0	350-1301-ND	3.51	2.93	2.34	568-0202-323
	Ylw./Grn./Ylw./Grn.	583/565	1.6	1.9/1.8	2.0	350-1302-ND	3.51	2.93	2.34	568-0203-232
	Red	635	4.0	5.0	10.0	350-1306-ND	3.75	3.13	2.50	568-0301-111
	Green	565	8.0	5.0	12.0	350-1307-ND	3.75	3.13	2.50	568-0302-222
	Grn./Ylw./Grn./Ylw.	565/583	8.0	5.0	12.0/10.0	350-1308-ND	3.75	3.13	2.50	568-0302-323
	Ylw./Grn./Ylw./Grn.	583/565	8.0	5.0	10.0/12.0	350-1309-ND	3.75	3.13	2.50	568-0303-232
	Bi-Color Red/Green	635/565	5.0	2.0	10.0	350-1313-ND	4.68	3.90	3.12	568-0701-111
	Bi-Color Ylw./Grn.	585/565	4.3/6.3	2.1	10.0	350-1314-ND	4.68	3.90	3.12	568-0704-444
40	Red	635	8.7	2.0	20.0	350-1317-ND	6.30	5.25	4.20	568-2231-1112
	Green	565	32.0	2.1	20.0	350-1319-ND	6.30	5.25	4.20	568-2232-2222
	Yellow	585	10.0	2.1	20.0	350-1321-ND	6.30	5.25	4.20	568-2233-3332
41	Red	635	8.7	2.0	20.0	350-1318-ND	12.60	10.50	8.40	568-2231-1114
	Green	565	32.0	2.1	20.0	350-1320-ND	12.60	10.50	8.40	568-2232-2224
	Yellow	585	10.0	2.1	20.0	350-1322-ND	12.60	10.50	8.40	568-2233-3334
42	Red	635	7.4	2.0	20.0	350-1296-ND	9.45	7.88	6.30	568-0141-1113
	Green	565	4.7	2.1	20.0	350-1297-ND	9.45	7.88	6.30	568-0142-2223
	Yellow	585	7.4	2.1	20.0	350-1298-ND	9.45	7.88	6.30	568-0143-3333
	Red	635	1.0	1.7	2.0	350-1303-ND	10.53	8.78	7.02	568-0241-1113
	Green	565	1.0	1.9	2.0	350-1304-ND	10.53	8.78	7.02	568-0242-2223
	Yellow	585	1.0	1.8	2.0	350-1305-ND	10.53	8.78	7.02	568-0243-3333
	Red	635	8.7	5.0	10.0	350-1310-ND	11.25	9.38	7.50	568-0341-1113
	Green	565	5.6	5.0	10.0	350-1311-ND	11.25	9.38	7.50	568-0342-2223
	Yellow	585	3.7	5.0	10.0	350-1312-ND	11.25	9.38	7.50	568-0343-3333
	Bi-Color Red/Green	635/565	5.0	2.0	10.0	350-1315-ND	14.04	11.70	9.36	568-0741-1113
	Bi-Color Ylw./Grn.	585/565	4.3/6.3	2.1	10.0	350-1316-ND	14.04	11.70	9.36	568-0744-4443
	Red	635	8.7	2.0	20.0	350-1323-ND	9.45	7.88	6.30	568-2241-1113
	Green	565	32.0	2.1	20.0	350-1324-ND	9.45	7.88	6.30	568-2242-2223
	Yellow	585	10.0	2.1	20.0	350-1325-ND	9.45	7.88	6.30	568-2243-3333

Fig. 29

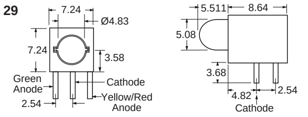
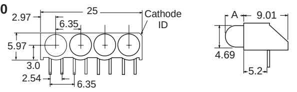


Fig. 30



Dim. A: 3.4 for 550-0207 to 0407, 4.95 for all others

Fig. 31

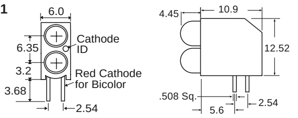


Fig. 32

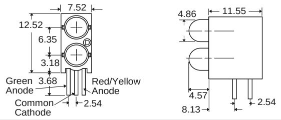
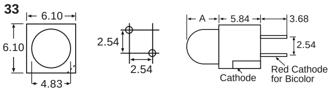


Fig. 33



Dim. A: 3.43 for 550-0204 to 0404, 5.0 for all others

Fig. 34

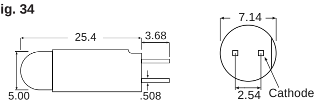


Fig. 35

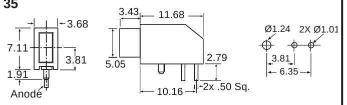


Fig. 36

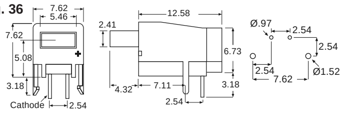


Fig. 37

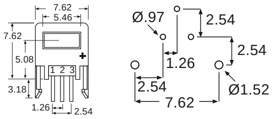
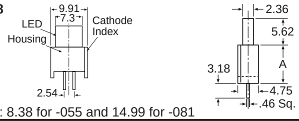


Fig. 38



Dim A: 8.38 for -055 and 14.99 for -081

Fig. 39

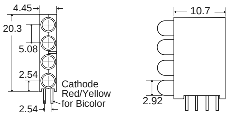


Fig. 40

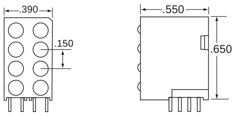


Fig. 41

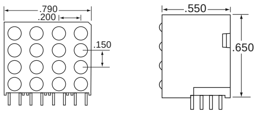
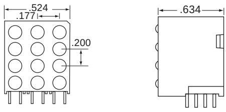


Fig. 42



STANLEY
Stanley Electric Sales of America

Surface Mount LEDs

Fig. 1 — 0603 Ultra Compact

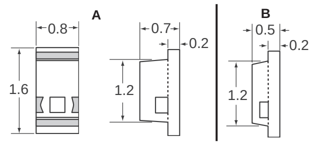


Fig. 2 — 0805 Thin Type

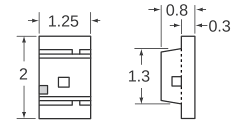


Fig. 3 — 1206 Standard and Reverse Mount Dome Lens

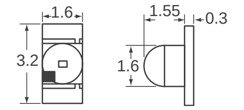


Fig. 4 — 1206 Standard Flat Lens

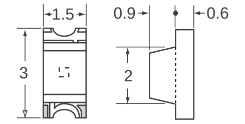


Fig. 5 — 1206 Standard Inner Lens

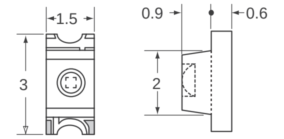


Fig. 6 — 1206 Reverse Mount

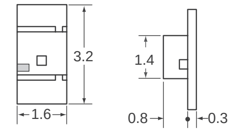


Fig. 7 — Right Angle SMT LED

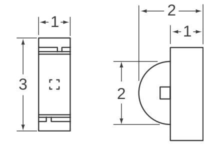


Fig. 8 — Right Angle SMT LED

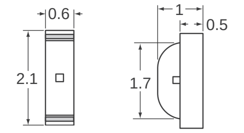


Fig. 9 — 1210 Bi-Color Standard Flat Lens Type SMT LED

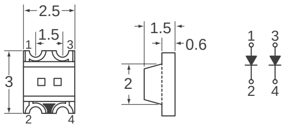


Fig. 10 — 1210 Bi-Color Two Inner Lens Type SMT LED

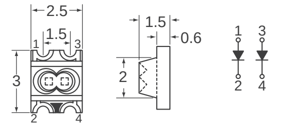


Fig. 11 — Bi-Color Ultra Compact SMT LED

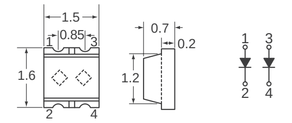


Fig. 12 — Bi-Color Right Angle SMT LED

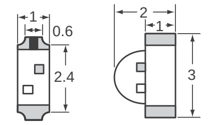


Fig.	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP @ mA		Iv (mcd)	Viewing Angle	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Stanley Part No.
									1	25	100		Size	Pricing	
0603 Ultra Compact															
1A	Red	Milky White	660	1.7	20	11.7	140º	404-1000-1-ND	.34	4.13	12.42	404-1000-2-ND	4,000	79.75/M	BR1111C-TR
	Orange		605	2.2	20	3.4	150º	404-1001-1-ND	.37	4.50	13.55	404-1001-2-ND	4,000	87.00/M	AA1111C-TR
	Yellow		580	2.2	20	3.4	150º	404-1002-1-ND	.33	3.98	11.97	404-1002-2-ND	4,000	76.85/M	AY1111C-TR
	Yellow/Green		570	2.1	20	11.7	150º	404-1003-1-ND	.31	3.75	11.30	404-1003-2-ND	4,000	72.50/M	PY1111C-TR
	Green		560	2.1	20	6.4	150º	404-1004-1-ND	.31	3.75	11.30	404-1004-2-ND	4,000	72.50/M	PG1111C-TR
	Pure Green		555	2.1	20	2.4	150º	404-1005-1-ND	.40	4.88	14.68	404-1005-2-ND	4,000	94.25/M	BG1111C-TR
	Red	Milky White	635	1.9	20	50	140º	404-1006-1-ND	1.04	13.89	50.50	404-1006-2-ND	4,000	295.73/M	FR1111C-TR
	Orange		609	1.9	20	65	140º	404-1007-1-ND	.92	12.38	45.00	404-1007-2-ND	4,000	263.52/M	FA1111C-TR
	Yellow		590	1.9	20	65	140º	404-1008-1-ND	.93	12.44	45.25	404-1008-2-ND	4,000	264.99/M	FY1111C-TR
	Green		522	3.3	10	40	130º	404-1009-1-ND	3.45	50.97	171.69	404-1009-2-ND	4,000	1266.08/M	DG1111C-TR
	Bluish-Green		502	3.3	10	34	130º	404-1010-1-ND	3.19	47.07	158.55	404-1010-2-ND	4,000	1169.18/M	DC1111C-TR
	Blue		467	3.3	10	14	130º	404-1011-1-ND	3.14	46.35	156.13	404-1011-2-ND	4,000	1151.33/M	DB1111C-TR
1B	Red	Milky White	635	1.9	20	45	130º	404-1012-1-ND	.55	6.75	20.33	404-1012-2-ND	4,000	137.70/M	FR1112C-TR
	Orange		609	1.9	20	50	130º	404-1013-1-ND	.55	6.75	20.33	404-1013-2-ND	4,000	137.70/M	FA1112C-TR
	Yellow		590	1.9	20	50	130º	404-1014-1-ND	.55	6.75	20.33	404-1014-2-ND	4,000	137.70/M	FY1112C-TR
	Green		560	2.2	20	7.6	150º	404-1015-1-ND	.38	4.58	13.78	404-1015-2-ND	4,000	99.62/M	PG1112C-TR
	Yellow-Green		570	2.1	20	11.7	150º	404-1016-1-ND	.38	4.58	13.78	404-1016-2-ND	4,000	99.62/M	PY1112C-TR
0805 Thin Type															
2	Red	Milky White	660	1.7	20	11.7	150º	404-1017-1-ND	.39	4.73	14.23	404-1017-2-ND	4,000	91.35/M	BR1112H-TR
	Orange		605	2.2	20	3.7	160º	404-1018-1-ND	.36	4.43	13.33	404-1018-2-ND	4,000	85.55/M	AA1112H-TR
	Yellow		580	2.2	20	3.7	160º	404-1019-1-ND	.35	4.28	12.88	404-1019-2-ND	4,000	82.65/M	AY1112H-TR
	Yellow-Green		570	2.1	20	11.7	160º	404-1020-1-ND	.33	3.98	11.97	404-1020-2-ND	4,000	76.85/M	PY1112H-TR
	Green		560	2.1	20	6.4	160º	404-1021-1-ND	.34	4.13	12.42	404-1021-2-ND	4,000	79.75/M	PG1112H-TR
	Pure Green		555	2.1	20	2.7	160º	404-1022-1-ND	.41	5.03	15.14	404-1022-2-ND	4,000	97.15/M	BG1112H-TR
	Red	Milky White	635	1.9	20	50	150º	404-1023-1-ND	.88	12.20	44.34	404-1023-2-ND	4,000	287.28/M	FR1112H-TR
	Orange		609	1.9	20	65	150º	404-1024-1-ND	.95	11.68	37.98	404-1024-2-ND	4,000	246.05/M	FA1112H-TR
	Yellow		592	1.9	20	65	150º	404-1025-1-ND	1.00	12.25	39.83	404-1025-2-ND	4,000	258.02/M	FY1112H-TR
	Green		522	3.3	10	40	150º	404-1026-1-ND	3.42	50.50	170.13	404-1026-2-ND	4,000	1254.60/M	DG1112H-TR
	Bluish-Green		502	3.3	10	34	150º	404-1027-1-ND	3.34	49.32	166.16	404-1027-2-ND	4,000	1225.28/M	DC1112H-TR
	Blue		467	3.3	10	14	150º	404-1028-1-ND	3.30	48.71	164.08	404-1028-2-ND	4,000	1209.98/M	DB1112H-TR
1206 Standard and Reverse Mount Dome Lens															
3	Red	Water Clear	660	1.8	20	150	30º	404-1032-1-ND	.74	9.90	36.00	404-1032-2-ND	2,000	220.32/M	HKR1105W-TR
	Red		660	1.7	20	50	50º	404-1033-1-ND	.43	5.25	15.81	404-1033-2-ND	2,000	114.31/M	HBR1105W-TR
	Orange		605	2.2	20	20	40º	404-1034-1-ND	.55	6.75	20.33	404-1034-2-ND	2,000	146.97/M	HAA1105W-TR
	Yellow		580	2.2	20	20	40º	404-1035-1-ND	.57	6.98	21.01	404-1035-2-ND	2,000	151.87/M	HAY1105W-TR
	Yellow-Green		570	2.1	20	50	40º	404-1036-1-ND	.25	3.08	9.26	404-1036-2-ND	2,000	66.96/M	HPY1105W-TR
	Green		560	2.1	20	30	40º	404-1037-1-ND	.40	4.88	14.68	404-1037-2-ND	2,000	106.15/M	HPG1105W-TR
	Pure Green		555	2.1	20	12	40º	404-1038-1-ND	.47	5.78	17.39	404-1038-2-ND	2,000	125.74/M	HBG1105W-TR
	Red	Water Clear	635	1.9	20	180	50º	404-1029-1-ND	.85	11.34	41.25	404-1029-2-ND	2,000	252.45/M	FR1105W-TR
	Orange		609	1.9	20	200	50º	404-1030-1-ND	.85	11.34	41.25	404-1030-2-ND	2,000	252.45/M	FA1105W-TR
	Yellow		592	1.9	20	180	50º	404-1031-1-ND	.71	9.49	34.50	404-1031-2-ND	2,000	211.14/M	FY1105W-TR
	Green		522	3.3	10	140	40º	404-1039-1-ND	4.00	53.10	187.80	404-1039-2-ND	2,000	1618.05/M	HDG1105W-TR
	Bluish-Green		502	3.3	10	140	40º	404-1040-1-ND	4.04	53.56	189.43	404-1040-2-ND	2,000	1632.12/M	HDC1105W-TR
	Blue		467	3.3	10	70	40º	404-1041-1-ND	4.00	53.10	187.80	404-1041-2-ND	2,000	1618.05/M	HDB1105W-TR
1206 Standard Flat Lens															
4	Red	Water Clear	660	1.7	20	12.8	150º	404-1042-1-ND	.43	5.25	15.81	404-1042-2-ND	2,500	114.32/M	BR1101W-TR
	Orange		605	2.2	20	5.6		404-1043-1-ND	.44	5.33	16.04	404-1043-2-ND	2,500	115.95/M	AA1101W-TR
	Yellow		580	2.2	20	4.0		404-1044-1-ND	.40	4.88	14.68	404-1044-2-ND	2,500	106.15/M	AY1101W-TR
	Yellow Green		570	2.1	20	8.0		404-1045-1-ND	.38	4.65	14.01	404-1045-2-ND	2,500	101.25/M	PY1101W-TR
	Green		560	2.1	20	4.8		404-1046-1-ND	.40	4.88	14.68	404-1046-2-ND	2,500	106.15/M	PG1101W-TR
	Pure Green		555	2.1	20	2.0		404-1047-1-ND	.47	5.70	17.17	404-1047-2-ND	2,500	124.11/M	BG1101W-TR
1206 Standard Inner Lens															
5	Red	Water Clear	660	1.7	20	33.6	70º	404-1048-1-ND	.43	5.25	15.81	404-1048-2-ND	2,500	114.32/M	BR1102W-TR
	Orange		605	2.2	20	10.0		404-1049-1-ND	.44	5.33	16.04	404-1049-2-ND	2,500	115.95/M	AA1102W-TR
	Yellow		580	2.2	20	8.4		404-1050-1-ND	.40	4.88	14.68	404-1050-2-ND	2,500	106.15/M	AY1102W-TR
	Yellow Green		570	2.1	20	24.0		404-1051-1-ND	.38	4.65	14.01	404-1051-2-ND	2,500	101.25/M	PY1102W-TR
	Green		560	2.1	20	12.0		404-1052-1-ND	.40	4.88	14.68	404-1052-2-ND	2,500	106.15/M	PG1102W-TR
	Pure Green		555	2.1	20	4.8		404-1053-1-ND	.47	5.70	17.17	404-1053-2-ND	2,500	124.11/M	BG1102W-TR

(Continued)

Fig.	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP	@ mA	Iv (mcd)	Viewing Angle	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Stanley Part No.
1206 Reverse Mount															
6	Red	Milky White	660	1.7	20	12.7	140º	404-1054-1-ND*****	.42	5.10	15.36	404-1054-2-ND	3,000	111.05/M	BR1111R-TR
	Orange		605	2.2	20	3.7	150º	404-1055-1-ND	.40	4.88	14.68	404-1055-2-ND	3,000	106.15/M	AA1111R-TR
	Yellow		580	2.2	20	3.7	150º	404-1056-1-ND	.40	4.88	14.68	404-1056-2-ND	3,000	106.15/M	AY1111R-TR
	Yellow Green		570	2.1	20	12.7	150º	404-1057-1-ND	.35	4.28	12.88	404-1057-2-ND	3,000	93.08/M	PY1111R-TR
	Green		560	2.1	20	6.9	150º	404-1058-1-ND	.37	4.50	13.55	404-1058-2-ND	3,000	97.98/M	PG1111R-TR
	Pure Green		555	2.1	20	2.7	150º	404-1059-1-ND	.41	5.03	15.14	404-1059-2-ND	3,000	109.41/M	BG1111R-TR
Right Angle SMT LED															
7	Red	Water Clear	635	1.9	20	50	140º	404-1060-1-ND	1.08	15.12	48.58	404-1060-2-ND	3,000	385.04/M	FR1101F-TR
	Orange		609	1.9	20	65	140º	404-1061-1-ND	.83	11.14	40.50	404-1061-2-ND	3,000	247.86/M	FA1101F-TR
	Yellow		592	1.9	20	65	140º	404-1062-1-ND	1.18	15.81	57.50	404-1062-2-ND	3,000	336.72/M	FY1101F-TR
	Red	Water Clear	660	1.7	20	12.4	170º	404-1063-1-ND	.46	5.63	16.94	404-1063-2-ND	3,000	122.48/M	BR1101F-TR
	Orange		605	2.2	20	3.0	150º	404-1064-1-ND	.46	5.63	16.94	404-1064-2-ND	3,000	122.48/M	AA1101F-TR
	Yellow		580	2.2	20	3.0	150º	404-1065-1-ND	.44	5.33	16.04	404-1065-2-ND	3,000	115.95/M	AY1101F-TR
	Yellow Green		570	2.1	20	8.8	150º	404-1066-1-ND	.41	5.03	15.14	404-1066-2-ND	3,000	109.41/M	PY1101F-TR
	Green		560	2.1	20	5.2	150º	404-1067-1-ND	.41	5.03	15.14	404-1067-2-ND	3,000	109.41/M	PG1101F-TR
	Pure Green		555	2.1	20	2.4	150º	404-1068-1-ND	.44	5.33	16.04	404-1068-2-ND	3,000	115.95/M	BG1101F-TR
Right Angle SMT LED															
8	Red	Milky White	660	1.7	20	11.7	130º	404-1069-1-ND	.34	4.13	12.42	404-1069-2-ND	4,000	89.82/M	BR1113F-TR
	Yellow-Green		570	2.1	20	11.7	150º	404-1070-1-ND	.35	4.28	12.88	404-1070-2-ND	4,000	93.08/M	PY1113F-TR
	Green		560	2.1	20	6.4	150º	404-1071-1-ND	.37	4.50	13.55	404-1071-2-ND	4,000	97.98/M	PG1113F-TR
	Red	Milky White	635	1.9	20	50	130º	404-1072-1-ND	.66	8.80	32.00	404-1072-2-ND	4,000	187.40/M	FR1113F-TR
	Orange		609	1.9	20	65	130º	404-1073-1-ND	.78	10.38	37.75	404-1073-2-ND	4,000	221.07/M	FA1113F-TR
	Yellow		592	1.9	20	65	130º	404-1074-1-ND	.70	9.35	34.00	404-1074-2-ND	4,000	199.11/M	FY1113F-TR
	Green		522	3.3	10	40	130º	404-1075-1-ND	3.89	51.58	182.41	404-1075-2-ND	4,000	1496.78/M	DG1113F-TR
	Bluish-Green		502	3.3	10	34	130º	404-1076-1-ND	3.31	43.96	155.46	404-1076-2-ND	4,000	1275.68/M	DC1113F-TR
	Blue		467	3.3	10	14	130º	404-1077-1-ND	3.24	42.99	152.03	404-1077-2-ND	4,000	1247.54/M	DB1113F-TR
1210 Bi-Color Standard Flat Lens Type SMT LED															
9	Red/Yellow-Green	Water Clear	660/570	1.7/2.1	20/20	12.8/8	160º/160º	404-1078-1-ND	.62	8.25	30.00	404-1078-2-ND	2,500	183.60/M	BRPY1201W-TR
	Red/Green		660/560	1.7/2.1	20/20	12.8/4.8		404-1079-1-ND	.62	8.25	30.00	404-1079-2-ND	2,500	183.60/M	BRPG1201W-TR
	Red/Pure Green		660/555	1.7/2.1	20/20	12.8/2		404-1080-1-ND	.72	9.63	35.00	404-1080-2-ND	2,500	214.20/M	BRBG1201W-TR
1210 Bi-Color Two Inner Lens SMT LED															
10	Red/Yellow-Green	Water Clear	660/570	1.7/2.1	20/20	33.6/24	100º/80º	404-1081-1-ND	.62	8.25	30.00	404-1081-2-ND	2,500	183.60/M	BRPY1204W-TR
	Red/Green		660/560	1.7/2.1	20/20	33.6/12	100º/80º	404-1082-1-ND	.62	8.25	30.00	404-1082-2-ND	2,500	183.60/M	BRPG1204W-TR
	Red/Pure Green		660/555	2.2/2.1	20/20	33.6/4.8	100º/80º	404-1083-1-ND	.72	9.63	35.00	404-1083-2-ND	2,500	214.20/M	BRBG1204W-TR
	Orange/Yellow-Green		605/570	2.2/2.1	20/20	9/12	80º/80º	404-1084-1-ND	.85	11.34	41.25	404-1084-2-ND	2,500	252.46/M	AAPY1204W-TR
Bi-Color Ultra Compact SMT LED															
11	Red/Yellow-Green	Milky White	660/570	1.7/2.1	20/20	11.7/11.7	170º/150º	404-1085-1-ND	.55	6.75	20.33	404-1085-2-ND	4,000	137.70/M	BRPY1211C-TR
	Red/Green		660/560	1.7/2.1	20/20	11.7/6.4		404-1086-1-ND	.55	6.75	20.33	404-1086-2-ND	4,000	137.70/M	BRPG1211C-TR
	Red/Pure Green		660/555	1.7/2.1	20/20	11.7/2.4		404-1087-1-ND	.57	6.90	20.78	404-1087-2-ND	4,000	140.76/M	BRBG1211C-TR
Bi-Color Right Angle SMT LED															
12	Yellow/Green	Milky White	580/560	2.2/2.1	20/20	3.0/5.2	150º	404-1088-1-ND	.56	7.56	27.50	404-1088-2-ND	3,000	168.30/M	AYPG1211F-TR
	Red/Yellow-Green		660/570	1.7/2.1	20/20	17.6/8.8		404-1089-1-ND	.62	8.25	30.00	404-1089-2-ND	3,000	183.60/M	BRPY1211F-TR

*****Reversed Polarity

Through-Hole LEDs

Fig. 1

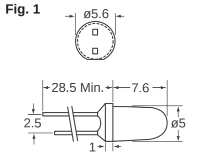


Fig. 2

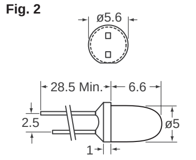


Fig. 3

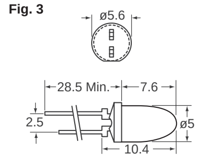


Fig. 4

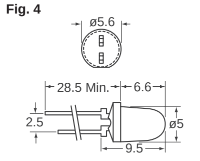


Fig. 5

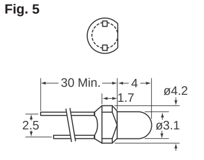


Fig. 6

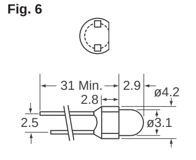


Fig.	Description	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP	@ mA	Iv (mcd)	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
1	5mm	Red	Clear Pastel Red	635	1.9	20	3600	10º	404-1090-ND	.77	.38	.31	EFR5366X
		Orange	Clear Pastel Orange	609	1.9	20	5000	10º	404-1091-ND	.77	.38	.31	EFA5366X
		Yellow	Clear Pastel Yellow	592	1.9	20	4000	10º	404-1092-ND	.82	.41	.33	EFY5366X
		Green	Water Clear	522	3.5	20	2400	10º	404-1093-ND	3.39	2.00	1.69	DG5306X
		Blue Green	Water Clear	502	3.5	20	2400	10º	404-1094-ND	3.28	1.94	1.63	DC5306X
		Blue	Water Clear	467	3.5	20	1000	10º	404-1095-ND	3.18	1.88	1.59	DB5306X
2	5mm	Red	Clear Pastel Red	635	1.9	20	880	45º	404-1096-ND	.82	.41	.33	EFR5365S
		Orange	Clear Pastel Orange	609	1.9	20	1160	45º	404-1097-ND	.82	.41	.33	EFA5365S
		Yellow	Clear Pastel Yellow	592	1.9	20	1000	45º	404-1098-ND	.82	.41	.33	EFY5365S
		Green	Water Clear	522	3.5	20	800	30º	404-1099-ND	3.38	2.00	1.69	DG5305S
		Blue Green	Water Clear	502	3.5	20	800	30º	404-1100-ND	3.27	1.93	1.63	DC5305S
		Blue	Water Clear	467	3.5	20	240	30º	404-1101-ND	3.18	1.88	1.58	DB5305S
3	5mm	Red	Water Clear	660	1.8	20	1000	10º	404-1102-ND	1.28	.71	.58	H-1000L
							2000	10º	404-1103-ND	1.89	1.05	.86	H-2000L
							3000	10º	404-1104-ND	2.84	1.43	1.29	H-3000L
4	5mm	Red	Water Clear	660	1.8	20	300	25º	404-1105-ND	.89	.44	.36	KR5005S
5	3mm Flush Mount	Red	Clear Pastel Red	635	1.9	20	1280	20º	404-1106-ND	.83	.41	.34	EFR3863X
		Orange	Clear Pastel Orange	609	1.9	20	1600	20º	404-1107-ND	.93	.46	.38	EFA3863X
		Yellow	Clear Pastel Yellow	592	1.9	20	1440	20º	404-1108-ND	.82	.41	.33	EFY3863X
		Green	Water Clear	522	3.5	20	1200	20º	404-1109-ND	3.44	2.04	1.71	DG3803X
		Blue Green	Water Clear	502	3.5	20	1200	20º	404-1110-ND	3.25	1.92	1.62	DC3803X
		Blue	Water Clear	467	3.5	20	500	20º	404-1111-ND	3.16	1.87	1.57	DB3803X
6	3mm Flush Mount	Red	Clear Pastel Red	635	1.9	20	440	70º	404-1112-ND	.83	.41	.34	EFR3864X
		Orange	Clear Pastel Orange	609	1.9	20	560	70º	404-1113-ND	.93	.46	.38	EFA3864X
		Yellow	Clear Pastel Yellow	592	1.9	20	500	70º	404-1114-ND	.77	.38	.31	EFY3864X
		Green	Water Clear	522	3.5	20	480	50º	404-1115-ND	3.37	1.99	1.68	DG3804X
		Blue Green	Water Clear	502	3.5	20	480	50º	404-1116-ND	3.25	1.92	1.62	DC3804X
		Blue	Water Clear	467	3.5	20	120	50º	404-1117-ND	3.17	1.88	1.58	DB3804X

STANLEY
Stanley Electric Sales of America

LED 7-Segment Displays

Fig. 1

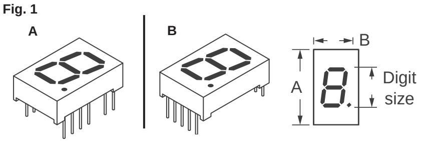


Fig. 2

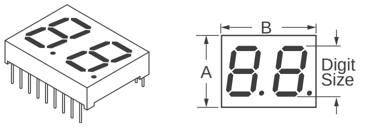


Fig. 3

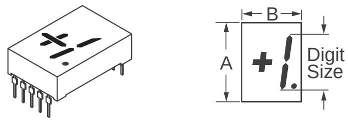


Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions (mm) A x B	Forward Voltage Typ.	@ If	Iv (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	25	100	Stanley Part No. Common Anode	Stanley Part No. Common Cathode
1A	Red	.30 (7.5)	11.0 x 7.0	1.7	10	2800	404-1118-ND	404-1119-ND	1.92	1.07	.87	NAR131SB	NKR131SB
	Red	.40 (10)	13.0 x 9.6	1.7	10	6400	—	404-1120-ND	1.88	.95	.85	—	NKR141SC
	Red	.40 (10)	19.0 x 12.5	1.7	20	8000	404-1121-ND	404-1122-ND	2.44	1.44	1.22	NAR141B	NKR141B
	Green	.40 (10)	19.0 x 12.5	2.2	20	2000	—	404-1123-ND	2.44	1.44	1.22	—	NKG141PB
1B	Red	.60 (15)	19.0 x 12.5	1.7	20	12000	404-1124-ND	404-1125-ND	1.51	.76	.69	NAR161B	NKR161B
	Red	1.0 (25)	33.0 x 22.8	3.4	20	20000	404-1126-ND	404-1127-ND	5.52	3.40	3.01	NAR105B	NKR105B
	Green	1.0 (25)	33.0 x 22.8	4.4	20	8000	404-1128-ND	404-1129-ND	5.49	3.38	2.99	NAG105PB	NKG105PB
2	Red	.60 (15)	19.0 x 25.2	1.7	20	12000	404-1130-ND	404-1131-ND	3.42	2.11	1.87	NAR261B	NKR261B
1A	Bicolor Red/Green	.40 (10)	19.0 x 10.0	1.7/2.0	10/10	2400	404-1132-ND	—	5.37	3.31	2.93	NARG141	—
		.60 (15)	19.0 x 12.5	1.7/2.0	10/10	2400	404-1133-ND	—	5.31	3.27	2.90	NARG161	—
		1.00 (25)	33.0 x 22.8	3.4/4.0	10/10	4000	404-1134-ND	—	4.45	4.17	3.69	NARG105	—

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions mm A x B	Forward Voltage Typ.	@ If	Iv (µcd)	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
3	Red	.40 (10)	19.0 x 12.5	1.7	20	6400	404-1135-ND	2.02	1.20	1.01	NSR145B
		.60 (15)	19.0 x 12.5	1.7	20	12000	404-1136-ND	2.23	1.32	1.11	NSR161B

Super Bright LED Light Bar Module

Fig. 1

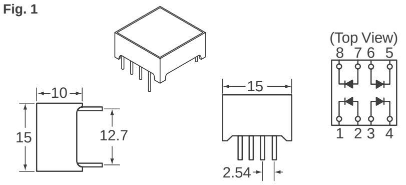


Fig. 2

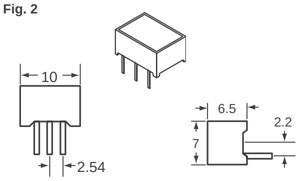


Fig. 3

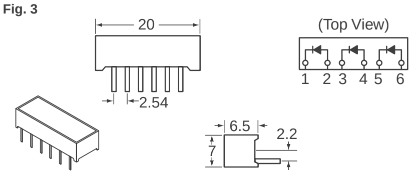


Fig. 4

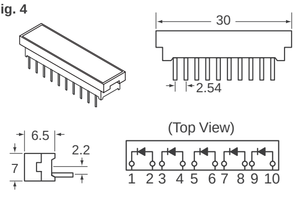


Fig. 5

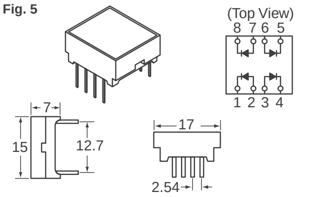


Fig. 6

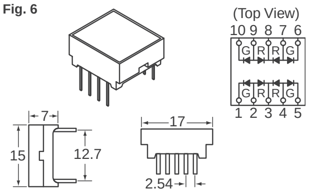


Fig. 7

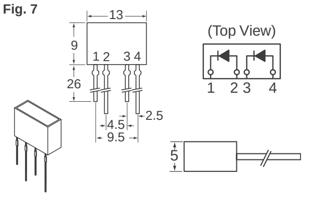


Fig.	Emitted Color	Wavelength λpk Typ. (nm)	Forward Voltage Typ.	@ If	Iv (mcd)	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
1	Red	660	1.7	20	42	404-1137-ND	1.52	.85	.69	MU02-2201
	Orange	605	2.2	20	20	404-1138-ND	1.33	.67	.61	MU02-3201
	Yellow	570	2.1	20	42	404-1139-ND	1.55	.86	.71	MU02-4201
	Pure Green	555	2.2	20	20	404-1140-ND	1.72	.87	.78	MU02-5201
2	Red	660	1.7	20	20	404-1141-ND	1.14	.51	.46	MU03-2201
	Orange	605	2.2	20	10	404-1142-ND	1.18	.52	.48	MU03-3201
	Yellow	570	2.1	20	20	404-1143-ND	1.12	.50	.45	MU03-4201
	Pure Green	555	2.2	20	7	404-1144-ND	1.26	.56	.51	MU03-5201
3	Red	660	1.7	20	32	404-1145-ND	1.32	.73	.60	MU04-2101
	Yellow	570	2.1	20	32	404-1146-ND	1.30	.72	.59	MU04-4101
	Green	560	2.1	20	20	404-1147-ND	1.31	.73	.60	MU04-5102
4	Red	660	1.7	20	40	404-1148-ND	1.76	.89	.80	MU07-2101
	Orange	605	2.2	20	20	404-1149-ND	1.49	.83	.68	MU07-3101
	Yellow	570	2.1	20	40	404-1150-ND	1.76	.89	.80	MU07-4101
	Pure Green	555	2.2	20	20	404-1151-ND	2.00	1.01	.91	MU07-5101
5	Red	660	1.7	20	40	404-1152-ND	1.59	.89	.73	MU08-2201
	Yellow	570	2.2	20	40	404-1153-ND	1.30	.72	.59	MU08-4201
	Pure Green	560	2.2	20	20	404-1154-ND	1.46	.81	.66	MU08-5201
6	Red/Pure Green	660/555	1.7/2.2	20/20	12/12	404-1155-ND	2.85	1.69	1.42	MU08-9301
7	Red	660	1.7	20	16	404-1156-ND	1.07	.60	.49	MU16-2101
	Yellow	570	2.1	20	16	404-1157-ND	1.31	.58	.48	MU16-4101
	Pure Green	555	2.2	20	8	404-1158-ND	1.17	.52	.47	MU16-5101

Fig. 1

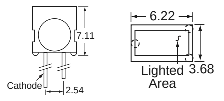


Fig. 2

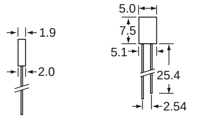


Fig. 3

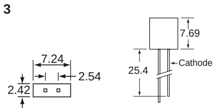


Fig. 4

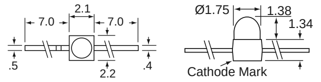


Fig. 5

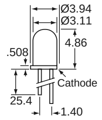


Fig. 6

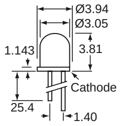


Fig. 7

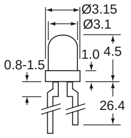


Fig. 8

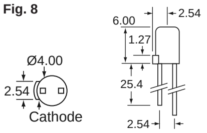


Fig. 9

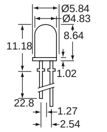


Fig. 10

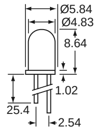


Fig. 11

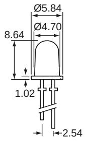


Fig. 12

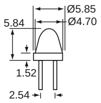


Fig. 13

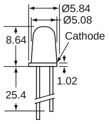


Fig. 14

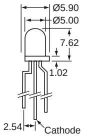


Fig. 15

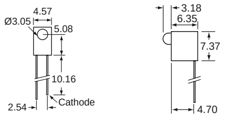


Fig. 16

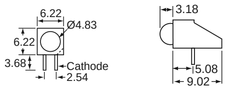


Fig. 17

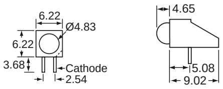


Fig. 18

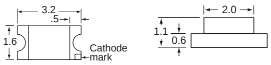


Fig. 19

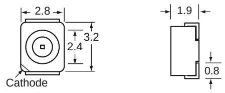


Fig. 20

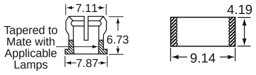


Fig.	Size	Color	Wave-Length pk (nm)	Lens	Vf (V) Typ.	If (mA) Typ.	View-ing Angle	Intensity (mcd) Typ.	Digi-Key Part No.	Price Each		
										1	10	100
Standard LED's												
1	5.59x3.18mm	Hi. Eff. Red	635	Diffused	2.0	20	100º	6.0	MV57124A-ND	.40	.32	.24
	5.59x3.18mm	Green	562	Diffused	2.2	20	100º	6.0	MV54124A-ND	.40	.32	.24
	5.59x3.18mm	Yellow	585	Diffused	2.0	20	100º	6.0	MV53124A-ND	.43	.35	.26
	5.59x3.18mm	Green/AlGaAs Red	562/660	Diffused	2.2°	20	100º	6.0	MV49124A-ND	.45	.36	.27
2	2x5 mm	Hi. Eff. Red	635	Diffused	2.0	20	100º	4.0	MV57123-ND	.38	.30	.21
	2x5 mm	Green	562	Diffused	2.2	20	100º	4.0	MV54123-ND	.38	.30	.21
	2x5 mm	Yellow	585	Diffused	2.1	20	100º	4.0	MV53123-ND	.38	.30	.21
3	2.5x7.4 mm	Hi. Eff. Red	635	Diffused	2.1	20	100º	2.5	HLMP0300-ND	.42	.34	.24
	2.5x7.4 mm	Hi. Eff. Red	635	Diffused	2.1	20	100º	5.0	HLMP0301-ND	.42	.34	.24
	2.5x7.4 mm	Green	565	Diffused	2.3	20	100º	5.0	HLMP0504-ND	.42	.34	.24
	2.5x7.4 mm	Yellow	585	Diffused	2.2	20	100º	5.0	HLMP0401-ND	.42	.34	.24
4	1.9mm	Green	565	Diffused	2.0	10	50º	3.0	MV6400A-ND	.48	.36	.27
	1.9mm	Green	565	Water Clear	2.0	10	25º	12.0	HLMP6505A-ND	.48	.36	.27
	1.9mm	AlGaAs Red	660	Water Clear	1.8	10	25º	50.0	HLMPQ105A-ND	.65	.52	.39
5	3mm	Red	660	Clear	1.6	20	70º	2.5	MV5074C-ND	.36	.29	.20
	3mm	Red	660	Diffused	1.6	20	90º	1.5	MV5075C-ND	.36	.29	.20
	3mm	Hi. Eff. Red	635	Diffused	2.0	20	90º	9.0	MV5774C-ND	.36	.29	.20
	3mm	Green	565	Diffused	2.2	20	90º	9.0	MV5474C-ND	.36	.29	.20
	3mm	Yellow	585	Diffused	2.1	20	90º	9.0	MV5374C-ND	.36	.29	.20
6	3mm	Hi. Eff. Red	635	Diffused	2.0	20	180º	7.0	MV5777C-ND	.36	.29	.20
	3mm	Green	565	Diffused	2.2	20	180º	7.0	MV5477C-ND	.36	.29	.20
7	3mm	H I Red	660	Clear	1.8	20	45º	65.0	HLMPK105-ND	.34	.27	.19
	3mm	Hi. Eff. Red	635	Pale Tint	2.2	20	45º	60.0	HLMP1340-ND	.34	.27	.19
	3mm	Yellow	585	Pale Tint	2.2	20	45º	60.0	HLMP1440-ND	.34	.27	.19
	3mm	Hi. Eff. Green	565	Pale Tint	2.2	20	45°	60.0	HLMP1540-ND	.36	.29	.20
	3mm	Red	660	Diffused	1.6	10	90º	1.5	MV50640-ND	.34	.27	.19
	3mm	Hi. Eff. Red	635	Diffused	2.0	10	90º	2.0	HLMP1300-ND	.34	.27	.19
	3mm	Hi. Eff. Red	635	Diffused	2.0	10	90º	4.0	HLMP1302-ND	.34	.27	.19
	3mm	Hi. Eff. Green	562	Diffused	2.2	20	90º	5.0	HLMP1503-ND	.34	.27	.19
	3mm	Hi. Eff. Green	562	Diffused	2.2	20	90°	10.0	HLMP1523-ND	.34	.27	.19
	3mm	Yellow	585	Diffused	2.1	10	90º	4.5	MV53642-ND	.34	.27	.19
	3mm	AlGaAs Red	660	Diffused	1.6	1.0	60º	2.0	HLMPK150-ND	.34	.27	.19
	3mm	Yellow	585	Diffused	1.9	2.0	50º	2.0	HLMP1719-ND	.36	.29	.20
	3mm	Green	565	Diffused	1.9	2.0	50º	2.0	HLMP1790-ND	.36	.29	.20
	3mm	Hi. Eff. Red	635	Diffused	1.8	2.0	50º	2.0	HLMP1700-ND	.36	.29	.20
	3mm	Green/Red	567/650	Diffused	2.1	20	100º	10.0	MV6461A-ND	.53	.42	.32
8	4mm	Hi. Eff. Red	635	Diffused	2.2	20	135º	7.0	HLMPM201-ND	.36	.29	.20
	4mm	Green	565	Diffused	2.3	20	135º	10.0	HLMPM501-ND	.36	.29	.20
	4mm	Yellow	585	Diffused	2.2	20	135º	7.0	HLMPM301-ND	.36	.29	.20
9	5mm	Hi. Eff. Red	635	Tint	2.2	20	24º	150.0	HLMP3750AFS-ND	.34	.27	.19
	5mm	Green	565	Tint	2.2	20	24º	150.0	HLMP3950AFS-ND	.34	.27	.19
	5mm	Yellow	585	Tint	2.2	20	24º	150.0	HLMP3850AFS-ND	.34	.27	.19
10	5mm	Hi. Eff. Red	635	Clear	2.2	20	24º	150.0	MV3750-ND	.34	.27	.19
	5mm	Hi. Eff. Red	635	Clear	2.0	20	28º	100.0	MV5752-ND	.34	.27	.19
	5mm	Green	565	Clear	2.2	20	24º	150.0	MV3450-ND	.36	.29	.20
	5mm	Hi. Eff. Green	562	Clear	2.2	20	35º	25.0	MV5452-ND	.34	.27	.19
	5mm	Hi. Eff. Green	562	Clear	2.2	20	35º	100.0	MV64521-ND	.34	.27	.19
	5mm	Yellow	585	Clear	2.1	20	28º	90.0	MV5352-ND	.34	.27	.19
	5mm	Red	660	Diffused	2.2	10	24º	1.0	MV5054A1-ND	.36	.29	.20
	5mm	Red	660	Diffused	2.2	10	24º	2.0	MV5054A2-ND	.36	.29	.20
	5mm	Red	660	Diffused	2.2	10	24º	3.0	MV5054A3-ND	.36	.29	.20
	5mm	Hi. Eff. Red	635	Diffused	2.0	20	24º	25.0	MV5754A-ND	.34	.27	.19
	5mm	Green	562	Diffused	2.2	20	24º	30.0	MV5454A-ND	.34	.27	.19
	5mm	Yellow	585	Diffused	2.1	20	24º	25.0	MV5354A-ND	.34	.27	.19
	5mm	Red	660	Diffused	2.2	20	80º	0.5	MV5053-ND**	.36	.29	.20
	5mm	Red	660	Diffused	2.2	20	80º	0.5	MV6053-ND	.34	.27	.19
	5mm	Hi. Eff. Red	635	Amber Diffused	2.0	20	65º	15.0	MV5153-ND**	.34	.27	.19
	5mm	Hi. Eff. Red	635	Diffused	2.0	20	65º	15.0	MV5753-ND**	.34	.27	.19
	5mm	Hi. Eff. Red	635	Diffused	2.0	20	65º	15.0	MV6753-ND	.36	.29	.20

(Continued)

O

LEDs *(Cont.)*

Fig.	Size	Color	Wave-Length pk (nm)	Lens	Vf (V) Typ.	If (mA) Typ.	View-ing Angle	Intensity (mcd) Typ.	Digi-Key Part No.	Price Each 1	10	100
10	5mm	Green	562	Diffused	2.2	20	75º	20.0	MV5453-ND**	.36	.29	.20
	5mm	Green	562	Diffused	2.2	20	75º	20.0	MV64531-ND	.34	.27	.19
	5mm	Yellow	585	Diffused	2.1	20	65º	15.0	MV5353-ND**	.36	.29	.20
	5mm	Red	660	Diffused	1.6	10	70º	3.0	FLV110-ND	.40	.32	.22
	5mm	AlGaAs Red	650	Diffused	2.4	20	70°	12.0	MV6951-ND	.34	.27	.19
	5mm	Yellow	585	Diffused	1.9	2.0	35°	2.0	HLMP4719-ND	.34	.27	.19
	5mm	Hi. Eff. Green	565	Diffused	1.9	2.0	35°	3.0	MV2454-ND	.36	.29	.20
	5mm	Red	660	Diffused	1.6	1.0	65º	3.0	HLMPD150A-ND	.34	.27	.19
	5mm	Hi. Eff. Red	635	Diffused	1.8	2.0	35°	2.0	HLMP4700-ND	.34	.27	.19
	5mm	Hi. Eff. Red	635	Diffused	2.2	10	65º	3.0	HLMP3300-ND	.36	.29	.20
	5mm	Hi. Eff. Red	635	Diffused	2.2	10	65º	7.0	HLMP3301-ND	.34	.27	.19
11	5mm	Red	660	White Diffused	1.65	20	90º	1.6	MV5021A-ND	.36	.29	.20
	5mm	Red	660	Diffused	1.65	20	90º	1.6	MV5023A-ND	.36	.29	.20
	5mm	Red	660	Diffused	1.65	20	60º	3.0	MV5024A-ND	.36	.29	.20
	5mm	Red	660	Diffused	1.65	20	180º	0.4	MV5025A-ND	.36	.29	.20
12	5mm	Red	660	Diffused	1.6	10	50º	1.5	MV50154-ND	.36	.29	.20
9	5mm	AlGaAs Red/Hi. Eff. Red	660/635	Diffused	2.0/2.0	20	75°	5.0/5.0	MV5094A-ND	.45	.36	.27
9	5mm	AlGaAs Red/Green	660/562	Diffused	2.0/2.0	20	75°	5.0/.5.0	MV5491A-ND	.40	.32	.24
14	5mm	Green/Hi. Eff. Red	565/635	Diffused	2.1/2.1	20	100º	6.0/6.0	MV5437-ND	.40	.32	.24
Super Bright LEDs												
10	5mm	Super Red	660	Diffused	1.7	20	40º	200.0	MV8191-ND	.47	.39	.27
	5mm	Super Red	660	Clear	1.7	20	40º	370.0	MV8141-ND	.41	.33	.25
	5mm	Super Red	660	Clear	1.7	20	20º	370.0	MV8102-ND	.42	.35	.24
	5mm	Super Red	660	Clear	1.7	20	20º	940.0	MV8103-ND	.42	.35	.24
	5mm	Super Red	660	Clear	1.7	20	20º	1500.0	MV8104-ND	.42	.35	.24
	5mm	Super Yellow	590	Clear	2.1	20	20º	2400.0	MV8305-ND	.53	.42	.32
13	5mm	Super Red	660	Clear	1.7	20	12º	940.0	MV8112-ND	.42	.35	.24
	5mm	Super Red	660	Clear	1.7	20	12º	2400.0	MV8114-ND	.42	.35	.24
	5mm	Super Yellow	590	Clear	2.1	20	12º	3500.0	MV8316-ND	.57	.46	.34
	5mm	Super Green	565	Clear	2.1	20	12º	600.0	MV8412-ND	.47	.39	.27
Integrated T-1 3/4 Resistor Lamps												
10	5mm	Red	655	Diffused	5.0	13	60º	2.0	MR3050-ND	.65	.49	.37
	5mm	Red	655	Diffused	12.0	13	60º	2.0	MR3051-ND	.65	.49	.37
	5mm	Green	565	Diffused	5.0	12	60º	4.0	MR3450-ND	.69	.52	.39
	5mm	Green	565	Diffused	12.0	13	60º	4.0	MR3451-ND	.69	.52	.39
	5mm	Yellow	583	Diffused	5.0	10	60º	4.0	MR3350-ND	.69	.52	.39
	5mm	Yellow	583	Diffused	12.0	13	60º	4.0	MR3351-ND	.69	.52	.39
PC Mount LEDs												
15	3mm	Red	660	Diffused	1.6	20	60º	1.5	MV5064MP4B-ND	.49	.39	.30
	3mm	Yellow	585	Diffused	2.1	10	60º	2.0	MV5364MP4B-ND	.49	.39	.30
	3mm	Green	565	Diffused	2.2	20	60º	5.0	MV5464MP4B-ND	.49	.39	.30
16	5mm	Red	660	Diffused	1.7	20	65º	2.0	MV60538MP7-ND	.50	.38	.28
	5mm	Yellow	585	Diffused	2.1	20	65º	18.0	MV63538MP7-ND	.49	.39	.30
	5mm	Green	565	Diffused	2.2	20	65º	26.0	MV64538MP7-ND	.49	.39	.30
17	5mm	Red	660	Diffused	1.7	20	65º	3.2	MV60539MP7-ND	.49	.39	.30
	5mm	Yellow	585	Diffused	2.1	20	65º	20.0	MV63539MP7-ND	.49	.39	.30
	5mm	Green	565	Diffused	2.2	20	65º	28.0	MV64539MP7-ND	.49	.39	.30
	5mm	Hi. Eff. Red	635	Diffused	2.1	20	65º	15.0	MV67539MP7-ND	.49	.39	.30
	5mm	Red/Green	660/565	Diffused	2.3	20	100º	6.0	MV54919MP7-ND	.65	.49	.37
Panel Mount LED Holders												
20	5mm Tapered Lens LED Holder								MP22-ND	.24	.18	.13

** Long lead is cathode

Surface Mount LEDs

Fig.	Size	Color	Wave-Length pk (nm)	Lens	Vf (V) Typ.	If (mA) Typ.	View-ing Angle	Intensity (mcd) Typ.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Reel Size	Tape and Reel Pricing
18	1206	Hi.Eff. Red	635	Clear	2.0	20	140º	6.0	QTLP650C2TRCT-ND	.47	.38	.26	QTLP650C2TRTR-ND	2,000	129.60/M
	1206	Yellow	585	Clear	2.0	20	140º	6.0	QTLP650C3TRCT-ND	.47	.38	.26	QTLP650C3TRTR-ND	2,000	129.60/M
	1206	Green	565	Clear	2.1	20	140º	10.0	QTLP650C4TRCT-ND	.47	.38	.26	QTLP650C4TRTR-ND	2,000	129.60/M
	1206	Hi.Eff. Red	635	Diffused	2.0	20	160º	4.0	QTLP650D2TRCT-ND	.47	.38	.26	QTLP650D2TRTR-ND	2,000	129.60/M
	1206	Yellow	585	Diffused	2.0	20	160°	4.0	QTLP650D3TRCT-ND	.47	.38	.26	QTLP650D3TRTR-ND	2,000	129.60/M
	1206	Green	565	Diffused	2.1	20	160º	6.5	QTLP650D4TRCT-ND	.47	.38	.26	QTLP650D4TRTR-ND	2,000	129.60/M
19	PLCC	Hi. Eff. Red	635	Clear	2.0	20	120°	10.0	QTLP670C2TRCT-ND	.41	.33	.25	QTLP670C2TRTR-ND	2,000	113.40/M
	PLCC	Yellow	585	Clear	2.0	20	120º	10.0	QTLP670C3TRCT-ND	.41	.33	.25	QTLP670C3TRTR-ND	2,000	113.40/M
	PLCC	Green	565	Clear	2.1	20	120º	25.0	QTLP670C4TRCT-ND	.41	.33	.25	QTLP670C4TRTR-ND	2,000	113.40/M

FAIRCHILD SEMICONDUCTOR

LED 7 Segment Displays

Fig.	Color Wavelength (nm)	Digit Size In. (mm)	Dimensions Inch (mm) AxB	VF (V)	If (mA)	Io (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	10	100
1	Red (660)	.30 (7.62)	.74 x .39 (18.75 x 9.80)	1.6	20	350	MAN71A-ND	MAN74A-ND	1.14	.95	.76
	Hi.Eff. Red (635)	.30 (7.62)	.74 x .39 (18.75 x 9.80)	2.2	20	1900	MAN3910A-ND	MAN3940A-ND	.93	.78	.63
	Hi.Eff. Red (635)	.30 (7.62)	.74 x .39 (18.75 x 9.80)	2.2	20	1900	—	MAN3980A-ND	1.28	1.07	.86
	Red/Orange (630)	.40 (10.16)	.74 x .39 (18.75 x 9.80)	2.2	20	1800	MAN4610A-ND	MAN4640A-ND	.93	.78	.63
	Red (660)	.40 (10.16)	.74 x .39 (18.75 x 9.80)	1.6	20	350	MAN4710A-ND	MAN4740A-ND	1.12	.94	.75
	Hi.Eff. Red (635)	.40 (10.16)	.74 x .39 (18.75 x 9.80)	2.2	20	1900	—	MAN4940A-ND	.95	.80	.64
	Green (562)	.40 (10.16)	.74 x .39 (18.75 x 9.80)	2.2	20	3200	MAN4410A-ND	MAN4440A-ND	1.00	.84	.67
	Green(562)	.56 (14.22)	.75 x .48 (19.05 x 12.20)	2.2	20	3300	MAN6460-ND	MAN6480-ND	1.07	.90	.72
	Red/Orange (630)	.56 (14.22)	.75 x .48 (19.05 x 12.20)	2.2	20	2200	MAN6660-ND	MAN6680-ND	1.00	.84	.67
	Red (650)	.56 (14.22)	.75 x .48 (19.05 x 12.20)	1.6	20	420	MAN6760-ND	MAN6780-ND	1.04	.87	.69
	Hi.Eff. Red (635)	.56 (14.22)	.75 x .48 (19.05 x 12.20)	2.2	20	2200	MAN6960-ND	MAN6980-ND	1.00	.84	.67
	Red/Orange (630)	.80 (20.32)	.99 x .74 (25.02 x 18.67)	2.2	20	2200	MAN8610-ND	MAN8640-ND	1.45	1.16	.87
2	Green (562)	.56 (14.22)	.75 x .99 (19.05 x 25.02)	2.2	20	3300	MAN6410-ND	MAN6440-ND	1.47	1.18	.88
	Red/Orange (630)	.56 (14.22)	.75 x .99 (19.05 x 25.02)	2.2	20	2200	MAN6610-ND	MAN6640-ND	1.41	1.18	.94
	Red (650)	.56 (14.22)	.75 x .99 (19.05 x 25.02)	1.6	20	420	MAN6710-ND	MAN6740-ND	1.62	1.30	.97
	Hi.Eff. Red (635)	.56 (14.22)	.75 x .99 (19.05 x 25.02)	2.2	20	2200	MAN6910-ND	MAN6940-ND	1.38	1.11	.83

Fig. 1

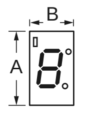
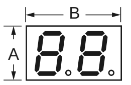


Fig. 2



FAIRCHILD
SEMICONDUCTOR

Fig. 1

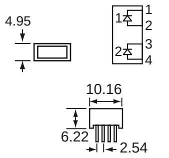


Fig. 2

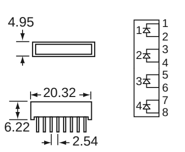


Fig. 3

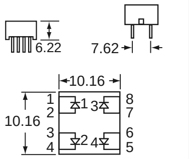


Fig. 4

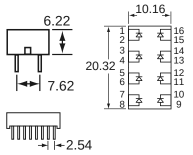


Fig. 5

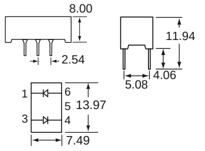
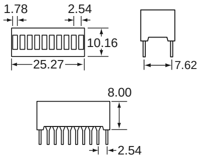


Fig. 6



LED Arrays/Light Bars

Fig.	Emitted Color	Vf	Io Typ. (mcd)	If (mA)	Digi-Key Part No.	Price Each 1	10	100
1	Red	2.0	23	20	HLMP2300-ND	.88	.66	.50
1	Yellow	2.1	20	20	HLMP2400-ND	.84	.64	.48
1	Green	2.2	25	20	HLMP2500-ND	.96	.72	.54
2	Red	2.0	45	20	HLMP2350-ND	.86	.72	.58
2	Yellow	2.1	38	20	HLMP2450-ND	.90	.75	.60
2	Green	2.2	50	20	HLMP2550-ND	.90	.75	.60
3	Red	2.0	43	20	HLMP2655-ND	.93	.70	.53
3	Yellow	2.1	35	20	HLMP2755-ND	.79	.66	.53
3	Green	2.2	50	20	HLMP2855-ND	.98	.74	.55
4	Red	2.0	80	20	HLMP2685FS-ND	.95	.80	.64
4	Yellow	2.1	70	20	HLMP2785-ND	1.14	.95	.76
4	Green	2.2	100	20	HLMP2885-ND	1.01	.85	.68
5	Red	2.0	4.5	20	MV57173-ND	.94	.71	.53
5	Yellow	2.0	4.5	20	MV53173-ND	.94	.71	.53
5	Green	2.2	4.5	20	MV54173-ND	.96	.72	.54

LED Bar Graph Arrays

Fig.	Emitted Color	Vf	Io Typ. (mcd)	If (mA)	Digi-Key Part No.	Price Each 1	10	100
6	Yellow	2.0	1800	10	MV53164-ND	1.08	.90	.72
6	Green	2.2	1800	10	MV54164-ND	1.08	.90	.72
6	Red	2.0	1800	10	MV57164-ND	1.08	.90	.72

LITEON LED, Dot Matrix Displays

Fig. 1 – 0.7” 5 x 7 Matrix

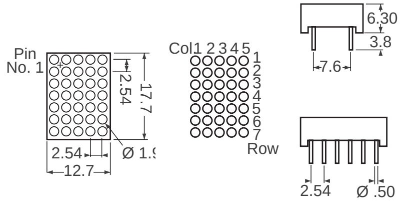


Fig. 2 – 1.2” 5 x 7 Matrix

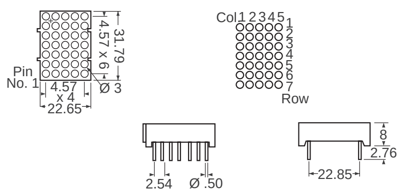
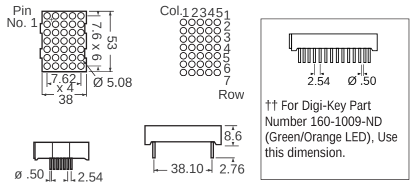


Fig. 3 – 2.0” 5 x 7 Matrix



†† For Digi-Key Part Number 160-1009-ND (Green/Orange LED), Use this dimension.

Fig. 4 – 2.3” 5 x 8 Matrix

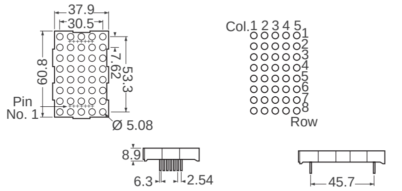


Fig. 5 – 2.0” 4 x 4 Bicolor Matrix

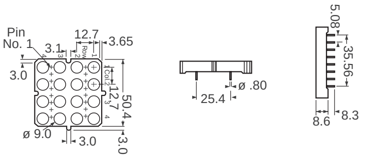


Fig. 6 – 4.0” 5 x 7 Matrix

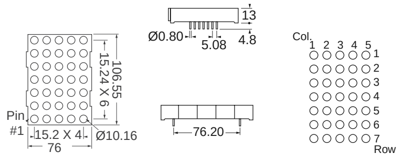
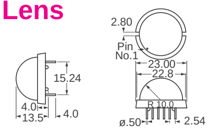


Fig.	Color	Peak Wavelength l	Typ. Vf (V) (If = 20mA)	Max Average If (mA)	Typ. Iv (mcd)	Digi-Key Part No. Anode Row/ Cathode Column	Digi-Key Part No. Cathode Row/ Anode Column	Price Each 1	25	50	Lite-On Part No. Anode Row/ Cathode Column	Lite-On Part No. Cathode Row/ Anode Column
Standard LED Dot Matrix Displays												
1	Green	565	2.1	11	2.0*	160-1002-ND	—	4.00	3.60	3.20	LTP-757G	—
1	Hi. Eff. Red	635	2.0	10	2.0*	160-1003-ND	—	4.25	3.83	3.40	LTP-757HR	—
3	Green/Red-Orange	565/630	2.1/2.0	13/13	4.8*	160-1009-ND††	—	9.50	8.55	7.60	LTP-2757AA	—
4	Hi. Eff. Red	635	2.1	10	4*	160-1014-ND	—	5.88	5.29	4.70	LTP-2158AHR	—
4	Green	565	2.1	13	4.8*	160-1016-ND	—	5.88	5.29	4.70	LTP-2158AG-RD	—
5	Green/Red-Orange	565/630	6.3/6.3	18/18	11†	160-1015-ND	—	13.45	12.11	10.76	LTP-2044A3-NB	—
6	Yellow	585	4.2	16	8†	160-1118-ND	—	21.73	19.56	17.38	LTP-4157AY	—
AlInGaP LED Dot Matrix Displays												
1	Super Red	639	2.0	13	3.4‡	160-1555-5-ND	160-1554-5-ND	4.00	3.60	3.20	LTP-757KR	LTP-747KR
1	Red-Orange	621	2.05	13	3.4‡	160-1553-5-ND	160-1552-5-ND	4.00	3.60	3.20	LTP-757KA	LTP-747KA
1	Yellow	595	2.05	13	3.4‡	160-1557-5-ND	160-1556-5-ND	4.00	3.60	3.20	LTP-757KY	LTP-747KY
2	Super Red	639	2.1	13	3.8‡	160-1567-5-ND	160-1566-5-ND	4.50	4.05	3.60	LTP-1557AKR	LTP-1457AKR
2	Red-Orange	621	2.05	13	3.8‡	160-1565-5-ND	160-1564-5-ND	4.50	4.05	3.60	LTP-1557AKA	LTP-1457AKA
2	Yellow	595	2.05	13	3.8‡	160-1569-5-ND	160-1568-5-ND	4.50	4.05	3.60	LTP-1557AKY	LTP-1457AKY
3	Super Red	639	2.0	13	4.6‡	160-1561-5-ND	160-1560-5-ND	4.88	4.39	3.90	LTP-2157AKR	LTP-2057AKR
3	Red-Orange	621	2.05	13	4.6‡	160-1559-5-ND	160-1558-5-ND	4.88	4.39	3.90	LTP-2157AKA	LTP-2057AKA
3	Yellow	595	2.05	13	4.6‡	160-1563-5-ND	160-1562-5-ND	4.88	4.39	3.90	LTP-2157AKY	LTP-2057AKY

* 80mA, 1/16 duty cycle † 48mA, 1/8 duty cycle ‡ 32mA 1/16 duty cycle †† See Physical Dimension Under Fig. 3

.8” Big Lamps with Universal Sphere Lens

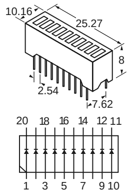


FEATURES: • High luminous intensity • Categorized for luminous intensity • Excellent on-off contrast • Operating Temperature Range: -25°C to +85°C.

Color	If Peak per chip (mA)	If Cont. per chip (mA)	Digi-Key Part No.	Pricing 1	10	100
Green	100	25	160-1025-ND	2.10	17.50	140.00
Hi. Eff. Red	100	25	160-1026-ND	2.10	17.50	140.00
Yellow	80	20	160-1027-ND	2.10	17.50	140.00

Absolute Max. Ratings at T_A = 25°C, VF = 2.1, VR = 5V

Bar Graph Array



Color	Continuous Forward Current	Forward Voltage (Vf)	Digi-Key Part No.	Pricing 1	10	100
Hi. Eff. Red	25	2.1	160-1066-ND	2.10	17.50	140.00
Green	25	2.1	160-1067-ND	2.10	17.50	140.00
Yellow	20	2.1	160-1068-ND	2.22	18.50	148.00

LITEON

T-1 and T-1 3/4 Integrated Resistor LEDs

Fig. 1

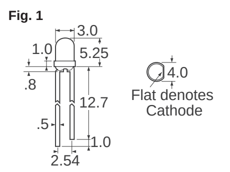
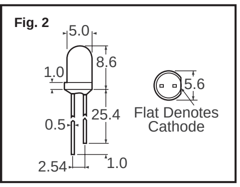


Fig. 2



Absolute Max. Rat. at T_A = 25°C

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	Iv Typ. (mcd)	Vf Max. (V)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	10	100	Lite-On Part No.
1	Red	Red Diff.	655	5	1.7	7.5	40	160-1045-ND	.23	1.88	15.00	LTL-4201T-R1
	Yellow	Yellow Diff.	585	5	12.6	7.5	40	160-1053-ND	.25	2.08	16.60	LTL-4251T-R1
	Green	Green Diff.	565	5	12.6	7.5	40	160-1049-ND	.23	1.88	15.00	LTL-4231T-R1
	Red	Red Diff.	655	12	1.1	15	40	160-1046-ND	.23	1.88	15.00	LTL-4201T-R2
	Red Orange	Orange Diff.	630	12	8.7	15	40	160-1110-ND	.26	2.18	17.40	LTL-4291T-R2
	Green	Green Diff.	565	12	19	15	40	160-1050-ND	.23	1.88	15.00	LTL-4231T-R2
2	Hi.Eff. Red	Red Diff.	635	5	29	7.5	36	160-1111-ND	.26	2.18	17.40	LTL-4223-R1
	Yellow	Yellow Diff.	585	5	19	7.5	36	160-1055-ND	.27	2.25	18.00	LTL-4253-R1
	Green	Green Diff.	565	5	40	7.5	36	160-1051-ND	.26	2.18	17.40	LTL-4233-R1
	Hi.Eff. Red	Red Diff.	635	12	29	15	36	160-1112-ND	.26	2.18	17.40	LTL-4223-R2
	Green	Green Diff.	565	12	29	15	36	160-1052-ND	.26	2.18	17.40	LTL-4233-R2

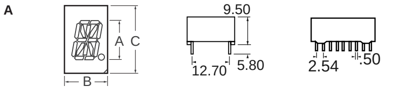
Fig. 1

Alphanumeric Displays

FEATURES:

- Low power requirements
- Excellent character appearance
- High contrast & brightness
- Wide viewing angle
- Categorized for luminous intensity

A



B

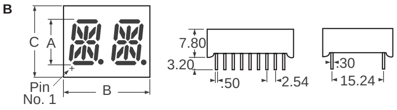


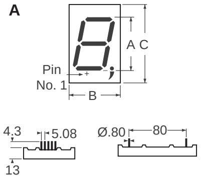
Fig. 2

Ultra-Large 7-Segment Displays

FEATURES:

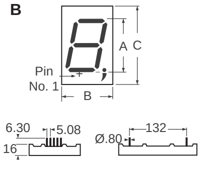
- Continuous uniform segments
- Excellent character appearance
- High contrast & brightness
- Wide viewing angle
- Categorized for luminous intensity

A



3" (76.20mm) Size

B



5" (127.00mm) Size

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ. (D.P.)	If Continuous (mA) Max.	Typ. Iv (ucd) @ If (mA)		Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Pricing 1	25	100
1-Digit LED Alphanumeric Displays															
1A	Direct Drive	.50 (12.7)	16.00 x 25.00	Hi. Eff. Red	Red	635	2.0	25	2200	10	160-1108-ND	—	2.38	53.44	95.00
	Direct Drive	.50 (12.7)	16.00 x 25.00	Yellow	Black	585	2.1	20	2200	10	160-1107-ND	—	2.38	53.44	95.00
	Direct Drive	.50 (12.7)	16.00 x 25.00	Green	Black	565	2.1	25	2200	10	160-1106-ND	—	2.38	53.44	95.00
2-Digit LED Alphanumeric Displays															
1B	Duplex	.54 (13.8)	25.2 x 21.15	Red-Orange	Gray	630	2.0	25	2300	10	160-1011-ND	160-1010-ND	3.88	87.19	155.00
	Duplex	.54 (13.8)	25.2 x 21.15	Green	Gray	565	2.1	25	2300	10	160-1013-ND	160-1012-ND	3.88	87.19	155.00
Ultra-Large 7-Segment LED Numeric Displays															
2A	Direct Drive	3.0 (76.20)	70.00 x 110.0	Hi. Eff. Red	Black	635	12.0 (4.0)	40	30000	20	160-1018-ND	160-1017-ND	16.80	304.50	558.60
	Direct Drive	3.0 (76.20)	70.00 x 110.0	Green	Black	565	12.6 (4.2)	40	30000	20	160-1020-ND	160-1019-ND	16.80	304.50	558.60
2B	Direct Drive	5.0 (127.0)	108.0 x 180.0	Hi. Eff. Red	Black	635	20.0 (4.0)	60	60000	30	160-1022-ND	160-1021-ND	38.70	701.44	1286.78
	Direct Drive	5.0 (127.0)	108.0 x 180.0	Green	Black	565	21.0 (4.2)	60	60000	30	160-1024-ND	160-1023-ND	38.70	701.44	1286.78

Absolute Max. Ratings at T_A = 25°C

Seven Segment Displays

Fig. 1

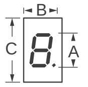


Fig. 2

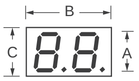


Fig. 3

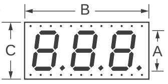


Fig. 4

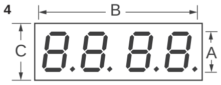


Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ.	If Continuous (mA) Max.	Typ. Iv (ucd) @ If (mA)		Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	25	100
AlInGap Seven-Segment Single-Digit Displays															
1	Direct Drive	.39 (10.0)	9.70 x 12.90	Super Red	Lt.Gray	639	2.00	25	650	1	160-1527-5-ND	—	1.30	.95	.82
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow-Orange	Lt.Gray	611	2.05	25	650	1	160-1526-5-ND	—	1.30	.95	.82
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow	Lt.Gray	588	2.05	25	650	1	160-1525-5-ND	—	1.30	.95	.82
	Direct Drive	.39 (10.0)	9.70 x 12.90	Super Red	Gray	639	2.00	25	520	1	160-1532-5-ND	160-1533-5-ND	1.30	.95	.82
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow-Orange	Gray	611	2.05	25	650	1	160-1530-5-ND	160-1531-5-ND	1.30	.95	.82
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow	Gray	588	2.05	25	867	1	160-1528-5-ND	160-1529-5-ND	1.30	.95	.82
Blue Seven-Segment Single-Digit Displays															
1	Direct Drive	.28 (7.00)	7.4 x 10.0	Blue	Gray	428	3.8	25	3000	10	160-1513-5-ND	160-1514-5-ND	4.68	3.40	2.93
	Direct Drive	.39 (10.00)	9.70 x 12.9	Blue	Gray	428	3.8	25	3600	10	160-1515-5-ND	160-1516-5-ND	4.78	3.47	2.99
	Direct Drive	.56 (14.22)	12.4 x 17.1	Blue	Gray	428	3.8	25	4300	10	160-1517-5-ND	160-1518-5-ND	4.82	3.50	3.02
AlInGap Seven-Segment Dual-Digit Displays															
2	Duplex	.39 (10.0)	19.86 x 12.8	Super Red	Gray	639	2.00	25	850	1	160-1538-5-ND	160-1539-5-ND	1.56	1.14	.98
	Duplex	.39 (10.0)	19.86 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	160-1536-5-ND	160-1537-5-ND	1.56	1.14	.98
	Duplex	.39 (10.0)	19.86 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1534-5-ND	160-1535-5-ND	1.56	1.14	.98
Blue Seven-Segment Dual-Digit Displays															
2	Duplex	.28 (7.00)	15.02 x 10.00	Blue	Gray	428	3.8	25	3000	10	160-1519-5-ND	160-1520-5-ND	9.46	6.86	5.91
	Duplex	.39 (10.0)	19.86 x 12.8	Blue	Gray	428	3.8	25	3600	10	160-1521-5-ND	160-1522-5-ND	9.58	6.95	5.99
	Duplex	.56 (14.22)	25.0 x 17.1	Blue	Gray	428	3.8	25	4300	10	160-1523-5-ND	160-1524-5-ND	9.56	6.94	5.98
AlInGap Seven-Segment Triple-Digit Displays															
3	Multiplex	.39 (10.0)	30.02 x 12.8	Super Red	Gray	639	2.00	25	650	1	160-1544-5-ND	160-1545-5-ND	2.40	1.74	1.50
	Multiplex	.39 (10.0)	30.02 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	160-1542-5-ND	160-1543-5-ND	2.40	1.74	1.50
	Multiplex	.39 (10.0)	30.02 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1540-5-ND	160-1541-5-ND	2.40	1.74	1.50
AlInGap Seven-Segment Quad-Digit Displays															
4	Multiplex	.39 (10.0)	40.18 x12.8	Super Red	Gray	639	2.00	25	650	1	160-1550-5-ND	160-1551-5-ND	2.86	2.08	1.79
	Multiplex	.39 (10.0)	40.18 x12.8	Yellow-Orange	Gray	611	2.05	25	650	1	160-1548-5-ND	160-1549-5-ND	2.86	2.08	1.79
	Multiplex	.39 (10.0)	40.18 x12.8	Yellow	Gray	588	2.05	25	650	1	160-1546-5-ND	160-1547-5-ND	2.86	2.08	1.79

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ.	If Continuous (mA) Max.	Typ. Iv (ucd) @ If (mA)		Digi-Key Part No.	Price Each 1	25	100
NEW! Common Anode NEW!														
1	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	632	2.1	25	12,000	10	160-1571-5-ND	1.24	.90	.78
	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	650	2.1	25	9,000	10	160-1572-5-ND	.94	.69	.59
	Direct Drive	.30 (7.62)	7.62 x 12.7	Green	Gray	565	2.1	25	1,600	10	160-1577-5-ND	1.30	.95	.82
	Direct Drive	.39 (10.0)	12.9 x 9.7	Red	Lt. Gray	650	2.1	25	9,750	10	160-1578-5-ND	1.30	.95	.82
	Direct Drive	.56 (14.22)	12.4 x 17.1	Green	Gray	565	2.1	25	2,400	10	160-1575-5-ND	.94	.69	.59
NEW! Common Cathode NEW!														
1	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	632	2.1	25	12,000	10	160-1570-5-ND	.98	.72	.62
	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	650	2.1	25	9,000	10	160-1573-5-ND	1.24	.90	.78
	Direct Drive	.30 (7.62)	7.62 x 12.7	Green	Gray	565	2.1	25	1,600	10	160-1574-5-ND	1.82	1.32	1.14
	Direct Drive	.56 (14.22)	12.4 x 17.1	Red	Lt. Gray	632	2.1	25	17,000	10	160-1576-5-ND	1.28	.93	.80

LITEON LEDs

Fig. 1

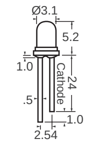


Fig. 2

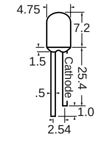


Fig. 3

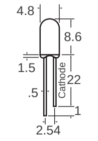


Fig. 4

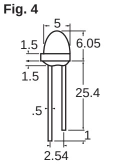


Fig. 5

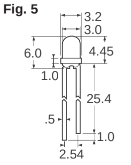
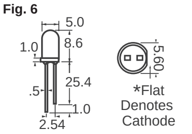


Fig. 6



* For part number 160-1104-ND, flat denotes anode.

Fig. 7

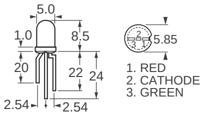


Fig. 8

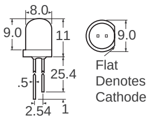


Fig. 9

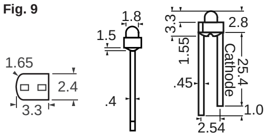


Fig. 10

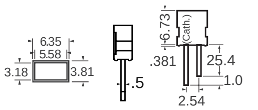


Fig. 11

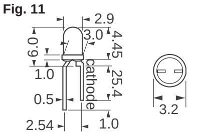


Fig. 12

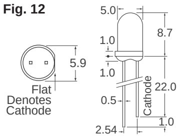
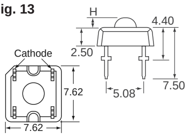


Fig. 13



Part No.	H
LTL911xxx	1.50
LTL912xxx	1.90

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv Typ. (mcd) @ (mA)		Viewing Angle (2x Theta)	Digi-Key Part Number	Pricing			Lite-On Part Number
											1	10	100	
1	T-1 Double Flange	Hi. Eff. Red	Red Diff.	635	2.0	40	12.6	10	60	160-1078-ND	—	.98	7.80	LTL-16KE
		Hi. Eff. Red	Red Trans.	635	2.0	40	19	10	45	160-1081-ND	—	.98	7.80	LTL-16KEE
		Yellow	Yellow Diff.	585	2.1	20	8.7	10	60	160-1079-ND	—	.98	7.80	LTL-16KY
		Yellow	Yellow Trans.	585	2.1	20	12.6	10	45	160-1082-ND	—	.98	7.80	LTL-16KYE
		Green	Green Diff.	565	2.1	30	12.6	10	60	160-1080-ND	—	.98	7.80	LTL-16KG
		Green	Green Trans.	565	2.1	30	12.6	10	45	160-1083-ND	—	.98	7.80	LTL-16KGE
2	T-1 3/4 No Flange	Hi. Eff. Red	Red Diff.	635	2.0	30	60	10	60	160-1087-ND	—	.98	7.80	LTL-10223W
		Yellow	Yellow Diff.	585	2.1	20	12.6	10	60	160-1088-ND	—	.98	7.80	LTL-10253W
		Green	Green Diff.	565	2.1	30	40	10	60	160-1089-ND	—	.98	7.80	LTL-10233W
3	T-1 3/4 No Flange	Hi. Eff. Red	Red Diff.	635	2.0	30	19	10	50	160-1090-ND	—	1.43	11.40	LTL-307ENF-D
		Green	Green Diff.	565	2.1	30	12.6	10	50	160-1091-ND	—	1.43	11.40	LTL-307GNF-D
4	Lo Profile T-1 3/4	Hi. Eff. Red	Red Diff.	635	2.0	30	5.6	10	64	160-1093-ND	—	1.15	9.20	LTL-5223
		Hi. Eff. Red	Red Trans.	635	2.0	30	29	10	44	160-1096-ND	—	1.15	9.20	LTL-5224
		Yellow	Yellow Diff.	585	2.1	20	4	10	64	160-1094-ND	—	1.15	9.20	LTL-5253
		Yellow	Yellow Trans.	585	2.1	20	12.6	10	44	160-1097-ND	—	1.15	9.20	LTL-5254
		Green	Green Diff.	565	2.1	30	5.6	10	64	160-1095-ND	—	1.15	9.20	LTL-5233
		Green	Green Trans.	565	2.1	30	40	10	44	160-1098-ND	—	1.15	9.20	LTL-5234
5	T-1 Ultrabright	Red	Red Diff.	660	1.8	40	60	20	60	160-1035-ND	.21	1.78	14.20	LTL-4261N
		Red	Water Clear	660	1.8	40	170	20	45	160-1034-ND	.21	1.78	14.20	LTL-4266N
	T-1 Bi-Color	Red Orange/Green	White Diff.	630/565	2.0/2.1	30/30	4.8/4.8	20	200	160-1058-ND	.36	3.00	24.00	LTL-14CHJ
6	T-1 3/4 Bi-Color	Red/Green	White Diff.	655/565	1.7/2.1	40/30	2.5/19	20	50	160-1036-ND	.39	3.25	26.00	LTL-298VJ
		Green/Red Orange	White Diff.	565/630	2.1/2.0	30/30	19/19	20	50	160-1037-ND	.39	3.25	26.00	LTL-298WJ
	T-1 3/4 Ultrabright Bi-Color	Red/Green	White Diff.	660/565	1.8/2.1	40/30	90/40	20	60	160-1038-ND	.47	3.88	31.00	LTL-293SJW
	T-1 3/4	Red	Water Clear	655	1.7	40	12.6	10	16	160-1126-ND	.23	1.75	12.25	LTL-4208
		Hi. Eff. Red	Red Diff.	635	2.0	30	19	10	36	160-1127-ND	.23	1.75	12.25	LTL-4223
		Hi. Eff. Red	Red Trans.	635	2.0	30	90	10	16	160-1128-ND	.23	1.75	12.25	LTL-4224
		Yellow	Yellow Diff.	585	2.1	20	19	10	36	160-1133-ND	.23	1.75	12.25	LTL-4253
		Yellow	Yellow Trans.	585	2.1	20	90	10	16	160-1134-ND	.23	1.75	12.25	LTL-4254
		Green	Green Diff.	565	2.1	30	19	10	36	160-1130-ND	.23	1.75	12.25	LTL-4233
		Green	Green Trans.	565	2.1	30	60	10	16	160-1131-ND	.23	1.75	12.25	LTL-4234
		Green	Water Clear	565	2.1	30	90	10	16	160-1132-ND	.23	1.75	12.25	LTL-4238
7	T-1 3/4 Ultrabright Bi-Color	Red Orange/Green	White Diff.	630/565	2.0/2.1	30/30	40/29	20	30	160-1057-ND	.39	3.25	26.00	LTL-30EHJ
8	8mm	Hi. Eff. Red	Red Diff.	635	2.0	30	12.6	10	46	160-1039-ND	.27	2.28	18.20	LTL-327HR
		Yellow	Yellow Diff.	585	2.1	20	12.6	10	46	160-1040-ND	.27	2.28	18.20	LTL-327Y
		Green	Green Diff	565	2.1	30	12.6	10	46	160-1041-ND	.27	2.28	18.20	LTL-327G
9	1.8mm Dot Point	Hi. Eff. Red	Red Diff.	635	2.0	30	12.6	10	38	160-1084-ND	.19	1.58	12.60	LTL-709E
		Yellow	Yellow Diff.	585	2.1	20	12.6	10	38	160-1085-ND	.20	1.63	13.00	LTL-709Y
		STD. Green	Green Diff.	560	2.1	30	8.7	10	38	160-1086-ND	.20	1.63	13.00	LTL-709L
10	Rectangular	Hi. Eff. Red	Red Diff.	635	2.0	30	5.6	20	100	160-1099-ND	.35	2.90	23.20	LTL-33221AA
		Yellow	Yellow Diff.	585	2.1	20	8.7	20	100	160-1101-ND	.35	2.90	23.20	LTL-33251AA
11	T-1	Red	Water Clear	655	1.7	40	3.7	10	45	160-1138-ND	.23	1.75	12.25	LTL-4206N
		Hi. Eff. Red	Red Diff.	635	2.0	30	8.7	10	60	160-1139-ND	.23	1.75	12.25	LTL-4221N
		Hi. Eff. Red	Red Trans.	635	2.0	30	29	10	45	160-1140-ND	.23	1.75	12.25	LTL-4222N
		Red Orange	Water Clear	630	2.0	30	60	10	45	160-1141-ND	.23	1.75	12.25	LTL-4296N
		Yellow	Yellow Diff.	585	2.1	20	5.6	10	60	160-1145-ND	.23	1.75	12.25	LTL-4251N
		Yellow	Yellow Trans.	585	2.1	20	19	10	45	160-1146-ND	.23	1.75	12.25	LTL-4252N
		Yellow	Water Clear	585	2.1	20	40	10	45	160-1147-ND	.23	1.75	12.25	LTL-4256N
		Green	Green Diff.	565	2.1	30	12.6	10	60	160-1142-ND	.23	1.75	12.25	LTL-4231N
		Green	Green Trans.	565	2.1	30	40	10	45	160-1143-ND	.23	1.75	12.25	LTL-4232N
		Green	Water Clear	565	2.1	30	40	10	45	160-1144-ND	.23	1.75	12.25	LTL-4236N
Super Bright AlInGaP LEDs														
12	T-1 3/4	Super Red	Water Clear	639	1.9	50	5500	20	8	160-1491-ND	.43	3.60	28.80	LTL-2F3VRKNT
		Red	Water Clear	632	2.0	50	7200	20	8	160-1492-ND	.43	3.60	28.80	LTL-2F3VEKNT
		Red-Orange	Water Clear	624	2.0	50	7800	20	8	160-1493-ND	.43	3.60	28.80	LTL-2F3VHKNT
		Super Orange	Water Clear	621	2.0	50	7800	20	8	160-1494-ND	.43	3.60	28.80	LTL-2F3VAKNT
		Yellow-Orange	Water Clear	611	2.0	50	7800	20	8	160-1495-ND	.43	3.60	28.80	LTL-2F3VFKNT
		Amber-Yellow	Water Clear	595	2.0	50	7800	20	8	160-1496-ND	.43	3.60	28.80	LTL-2F3VYKNT
		Yellow	Water Clear	588	2.0	50	7200	20	8	160-1497-ND	.43	3.60	28.80	LTL-2F3VSKNT
		Super Red	Water Clear	639	1.9	50	990	20	30	160-1498-ND	.43	3.60	28.80	LTL-2R3VRKNT
		Red	Water Clear	632	2.0	50	1200	20	30	160-1499-ND	.43	3.60	28.80	LTL-2R3VEKNT
		Red-Orange	Water Clear	624	2.0	50	1300	20	30	160-1500-ND	.43	3.60	28.80	LTL-2R3VHKNT
		Super Orange	Water Clear	621	2.0	50	1300	20	30	160-1501-ND	.43	3.60	28.80	LTL-2R3VAKNT
		Yellow-Orange	Water Clear	611	2.0	50	1300	20	30	160-1502-ND	.43	3.60	28.80	LTL-2R3VFKNT
		Amber-Yellow	Water Clear	598	2.0	50	1300	20	30	160-1503-ND	.43	3.60	28.80	LTL-2R3VYKNT
		Yellow	Water Clear	588	2.0	50	1200	20	30	160-1504-ND	.43	3.60	28.80	LTL-2R3VSKNT
13	7.62mm Sq.	Super Red	Water Clear	639	2.15	70	942	70	70	160-1505-ND	.53	4.38	35.00	LTL-911VRKSA
		Red	Water Clear	632	2.15	70	1254	70	70	160-1506-ND	.53	4.38	35.00	LTL-911VEKSA
		Red-Orange	Water Clear	624	2.15	70	1254	70	70	160-1507-ND	.53	4.38	35.00	LTL-911VHKSA
		Amber	Water Clear	598	2.15	70	1254	70	70	160-1508-ND	.53	4.38	35.00	LTL-911VYKSA
		Super Red	Water Clear	639	2.15	70	1884	70	50	160-1509-ND	.53	4.38	35.00	LTL-912VRKSA
		Red	Water Clear	632	2.15	70	2508	70	50	160-1510-ND	.53	4.38	35.00	LTL-912VEKSA
		Red-Orange	Water Clear	624	2.15	70	2508	70	50	160-1511-ND	.53	4.38	35.00	LTL-912VHKSA
		Amber	Water Clear	598	2.15	70	2508	70	50	160-1512-ND	.53	4.38	35.00	LTL-912VYKSA

Surface Mount LEDs

160-1190-ND **Surface Mount LED Demo Kit**. Contains a sampling of 13 popular styles of SMD LEDs that you can light with the push of a button $4.95

Fig. 1 — 1206

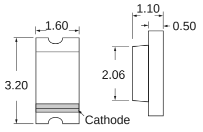


Fig. 2 — 1210

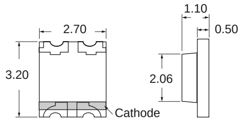
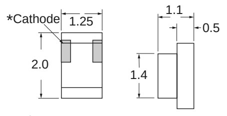


Fig. 3 — 0805



* Anode on parts 160-1174 and 160-1176

Fig. 4 —0805 Super Thin

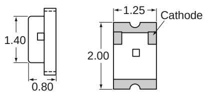
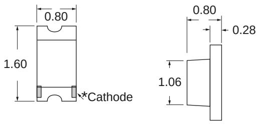


Fig. 5 — 0603



* Anode on part 160-1181

Fig. 6 — 0603 Super Thin

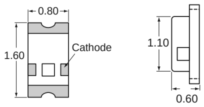


Fig. 7 — 0605 Dual LED

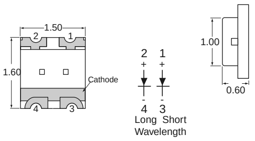


Fig. 8 — 1206 (Rear Mount)

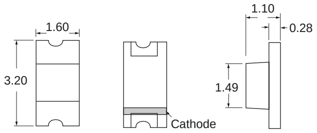


Fig. 9

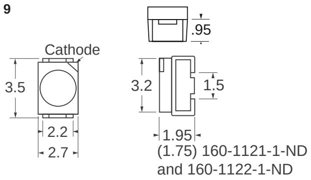


Fig. 10— 0805 Right Angle

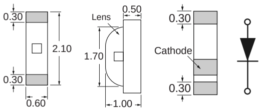


Fig. 11— 0603 Right Angle

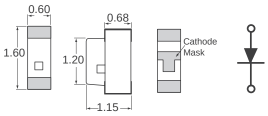


Fig. 12 — 1208 Right Angle

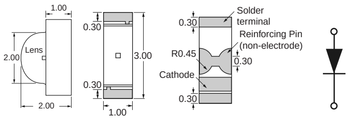


Fig. 13 — Domed

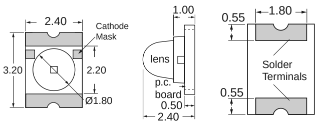


Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If (mA) Max.	Iv Typ.		Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Lite-On Part No.
						(mcd)	@ mA			1	10	100		Size	Pricing	
1	Red	Water Clear	660	1.8	40	25	20	130	160-1167-1-ND	.28	2.35	18.80	160-1167-2-ND	3,000	141.00/M	LTST-C150CKT
	Red-Orange		630	2.0	30	6	10	130	160-1168-1-ND	.17	1.38	11.00	160-1168-2-ND	3,000	82.50/M	LTST-C150EKT
	Amber		610	2.1	30	6	10	130	160-1166-1-ND	.17	1.38	11.00	160-1166-2-ND	3,000	82.50/M	LSTS-C150AKT
	Yellow		585	2.1	20	6	10	130	160-1170-1-ND	.17	1.38	11.00	160-1170-2-ND	3,000	82.50/M	LSTS-C150YKT
	Green		565	2.1	30	6	10	130	160-1169-1-ND	.17	1.38	11.00	160-1169-2-ND	3,000	82.50/M	LSTS-C150GKT
2	Green/Yellow	Water Clear	565/585	2.1/2.1	30/20	7/6	10	130/130	160-1171-1-ND	.21	1.73	13.80	160-1171-2-ND	3,000	103.50/M	LTST-C155GYKT
	Green/Red Orange		565/630	2.1/2.0	30/30	7/6	10	130/130	160-1172-1-ND	.21	1.73	13.80	160-1172-2-ND	3,000	103.50/M	LTST-C155GEKT
3	Red	Water Clear	660	1.8	40	90	20	130	160-1174-1-ND	.54	4.50	36.00	—	—	—	LTST-C170UKT
	Red		660	1.8	40	20	10	130	160-1176-1-ND	.30	2.50	20.00	160-1176-2-ND	3,000	150.00/M	LTST-C170CKT
	Red-Orange		630	2.0	30	6	10	130	160-1178-1-ND	.17	1.38	11.00	160-1178-2-ND	3,000	82.50/M	LTST-C170EKT
	Amber		610	2.1	30	6	10	130	160-1177-1-ND	.17	1.38	11.00	160-1177-2-ND	3,000	82.50/M	LTST-C170AKT
	Yellow		585	2.1	20	6	10	130	160-1175-1-ND	.17	1.38	11.00	160-1175-2-ND	3,000	82.50/M	LTST-C170YKT
	Green		565	2.1	30	14.2	20	130	160-1173-1-ND	.17	1.38	11.00	160-1173-2-ND	3,000	82.50/M	LTST-C170FKT
	Green		565	2.1	30	6	10	130	160-1179-1-ND	.17	1.38	11.00	160-1179-2-ND	3,000	82.50/M	LTST-C170GKT
4	Red	Water Clear	660	1.8	40	25	20	130	160-1421-1-ND	.38	2.82	23.50	160-1421-2-ND	3,000	141.00/M	LTST-C171CKT
	Red		630	2.0	30	6	20	130	160-1422-1-ND	.22	1.65	13.75	160-1422-2-ND	3,000	82.50/M	LTST-C171EKT
	Orange		610	2.1	30	4.5	20	130	160-1419-1-ND	.22	1.65	13.75	160-1419-2-ND	3,000	82.50/M	LTST-C171AKT
	Yellow		585	2.1	20	4.5	20	130	160-1431-1-ND	.22	1.65	13.75	160-1431-2-ND	3,000	82.50/M	LTST-C171YKT
	Green		565	2.1	30	12	20	130	160-1423-1-ND	.22	1.65	13.75	160-1423-2-ND	3,000	82.50/M	LTST-C171GKT
5	Red	Water Clear	660	1.8	40	20	10	130	160-1181-1-ND	.28	2.35	18.80	160-1181-2-ND	3,000	141.00/M	LTST-C190CKT
	Red Orange		630	2.0	30	6	10	130	160-1182-1-ND	.17	1.38	11.00	160-1182-2-ND	3,000	82.50/M	LTST-C190EKT
	Amber		610	2.1	30	6	10	130	160-1180-1-ND	.17	1.38	11.00	160-1180-2-ND	3,000	82.50/M	LTST-C190AKT
	Yellow		585	2.1	20	6	10	130	160-1184-1-ND	.17	1.38	11.00	160-1184-2-ND	3,000	82.50/M	LTST-C190YKT
	Green		565	2.1	30	6	10	130	160-1183-1-ND	.17	1.38	11.00	160-1183-2-ND	3,000	82.50/M	LTST-C190GKT
6	Red-Orange	Water Clear	630	2.0	30	4.5	20	130	160-1442-1-ND	.22	1.65	13.75	160-1442-2-ND	5,000	82.50/M	LTST-C191EKT
	Amber		610	2.1	30	4.5	20	130	160-1440-1-ND	.22	1.65	13.75	160-1440-2-ND	5,000	82.50/M	LTST-C191AKT
	Yellow		585	2.1	20	4.5	20	130	160-1449-1-ND	.22	1.65	13.75	160-1449-2-ND	5,000	82.50/M	LTST-C191YKT
	Green		565	2.1	30	12	20	130	160-1443-1-ND	.22	1.65	13.75	160-1443-2-ND	5,000	82.50/M	LTST-C191GKT
7	Green/Red	Water Clear	565/630	2.1/2.0	30/30	10/4.5	20	130	160-1450-1-ND	.28	2.07	17.25	160-1450-2-ND	4,000	103.50/M	LTST-C195GEKT
	Green/Yellow		565/585	2.1/2.1	30/20	10/4.5	20	130	160-1451-1-ND	.28	2.07	17.25	160-1451-2-ND	4,000	103.50/M	LTST-C195GYKT
8	Red	Water Clear	660	1.8	40	25	20	130	160-1186-1-ND	.28	2.35	18.80	160-1186-2-ND	3,000	141.00/M	LTST-C230CKT
	Red-Orange		630	2.0	30	6	20	130	160-1187-1-ND	.17	1.38	11.00	160-1187-2-ND	3,000	82.50/M	LTST-C230EKT
	Amber		610	2.1	30	4.5	20	130	160-1185-1-ND	.17	1.38	11.00	160-1185-2-ND	3,000	82.50/M	LTST-C230AKT
	Yellow		585	2.1	20	4.5	20	130	160-1189-1-ND	.17	1.38	11.00	160-1189-2-ND	3,000	82.50/M	LTST-C230YKT
	Green		565	2.1	30	14	20	130	160-1188-1-ND	.17	1.38	11.00	160-1188-2-ND	3,000	82.50/M	LTST-C230GKT
9	Red	Water Clear	635	2.0	30	12.4	10	120	160-1222-1-ND	.28	2.10	17.50	160-1222-2-ND	2,000	105.00/M	LTST-T670EKT
	Orange		610	2.1	30	12.4	20	120	160-1121-1-ND	.27	2.28	18.20	160-1121-2-ND	1,500	137.00/M	LTL-94PAKTA
	Orange		610	2.1	30	12.4	10	120	160-1221-1-ND	.28	2.10	17.50	160-1221-2-ND	2,000	105.00/M	LTST-T670AKT
	Yellow		585	2.1	20	12.4	10	120	160-1224-1-ND	.28	2.10	17.50	160-1224-2-ND	2,000	105.00/M	LTST-T670YKT
	Yellow		585	2.1	30	12.4	20	120	160-1122-1-ND	.27	2.28	18.20	—	—	—	LTL-94PYKTA
	Green		565	2.1	30	20	10	120	160-1223-1-ND	.28	2.10	17.50	160-1223-2-ND	2,000	105.00/M	LTST-T670GKT
10	Red-Orange	Water Clear	630	2.0	30	4	20	130	160-1220-1-ND	.22	1.65	13.75	160-1220-2-ND	4,000	82.50/M	LTST-S220EKT
	Yellow		585	2.1	20	4	20	130	160-1219-1-ND	.22	1.65	13.75	160-1219-2-ND	4,000	82.50/M	LTST-S220YKT
	Green		565	2.1	30	10	20	130	160-1218-1-ND	.22	1.65	13.75	160-1218-2-ND	4,000	82.50/M	LTST-S220GKT
11	Red	Water Clear	660	1.8	40	16	20	130	160-1473-1-ND	.38	2.82	23.50	—	—	—	LTST-S270CKT
	Red-Orange		630	2.0	30	4	20	130	160-1474-1-ND	.22	1.65	13.75	160-1474-2-ND	4,000	82.50/M	LTST-S270EKT
	Amber		610	2.1	30	4	20	130	160-1472-1-ND	.22	1.65	13.75	—	—	—	LTST-S270AKT
	Yellow		585	2.1	20	4	20	130	160-1482-1-ND	.22	1.65	13.75	160-1482-2-ND	4,000	82.50/M	LTST-S270YKT
	Green		565	2.1	30	10	20	130	160-1475-1-ND	.22	1.65	13.75	160-1475-2-ND	4,000	82.50/M	LTST-S270GKT
12	Red-Orange	Water Clear	630	2.0	30	4	20	130	160-1208-1-ND	.22	1.65	13.75	160-1208-2-ND	3,000	82.50/M	LTST-S320EKT
	Yellow		585	2.1	20	4	20	130	160-1207-1-ND	.22	1.65	13.75	160-1207-2-ND	3,000	82.50/M	LTST-S320YKT
	Green		565	2.1	30	10	20	130	160-1206-1-ND	.22	1.65	13.75	160-1206-2-ND	3,000	82.50/M	LTST-S320GKT
13	Orange	Water Clear	630	2.0	30	25	10	25	160-1214-1-ND	.22	1.65	13.75	160-1214-2-ND	1,500	82.50/M	LTST-C930EKT
	Yellow		585	2.1	20	16	10	25	160-1213-1-ND	.22	1.65	13.75	160-1213-2-ND	1,500	82.50/M	LTST-C930YKT
	Green		565	2.1	30	40	10	25	160-1212-1-ND	.22	1.65	13.75	160-1212-2-ND	1,500	82.50/M	LTST-C930GKT

(Continued)

Surface Mount LEDs *(Cont.)*

Blue Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv Typ. (mcd)	@ mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Lite-On Part No.
1	Blue	Water Clear	468	3.7	20	20	20	130	160-1401-1-ND	1.94	14.58	121.50	160-1401-2-ND	3,000	729.00/M	LTST-C150CBKT
3			468	3.7	20	20	20	130	160-1411-1-ND	1.94	14.58	121.50	160-1411-2-ND	3,000	729.00/M	LTST-C170CBKT
4			468	3.7	20	20	20	130	160-1420-1-ND	1.94	14.58	121.50	160-1420-2-ND	3,000	729.00/M	LTST-C171CBKT
5			468	3.7	30	20	20	130	160-1432-1-ND	1.94	14.58	121.50	160-1432-2-ND	3,000	729.00/M	LTST-C190CBKT
6			468	3.7	30	20	20	130	160-1441-1-ND	1.94	14.58	121.50	160-1441-2-ND	5,000	729.00/M	LTST-C191CBKT
8	Blue	Water Clear	468	3.7	30	20	20	130	160-1454-1-ND	1.94	14.58	121.50	160-1454-2-ND	3,000	729.00/M	LTST-C230CBKT
9			468	3.5	20	20	20	120	160-1229-1-ND	1.38	11.50	92.00	160-1229-2-ND	2,000	690.00/M	LTST-T670TBKT
10			468	3.7	30	20	20	130	160-1466-1-ND	1.94	14.58	121.50	160-1466-2-ND	4,000	729.00/M	LTST-S220CBKT
12			468	3.7	30	20	20	130	160-1483-1-ND	1.94	14.58	121.50	160-1483-2-ND	3,000	729.00/M	LTST-S320CBKT
13			468	3.7	20	150	20	25	160-1460-1-ND	2.28	17.10	142.50	160-1460-2-ND	1,500	855.00/M	LTST-C930CBKT

Ultra-Bright AlInGaP Surface Mount LEDs

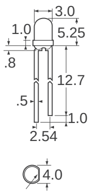
Fig.	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	If (mA) Max.	Iv Typ. (mcd)	@ mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Lite-On Part No.
1	Super Red	Water Clear	639	2.0	30	54	20	130	160-1405-1-ND	.22	1.65	13.75	160-1405-2-ND	3,000	82.50/M	LTST-C150KRKT
	Red-Orange		621	2.0	30	55	20	130	160-1402-1-ND	.22	1.65	13.75	160-1402-2-ND	3,000	82.50/M	LTST-C150KAKT
	Amber-Yellow		595	2.0	30	50	20	130	160-1407-1-ND	.22	1.65	13.75	160-1407-2-ND	3,000	82.50/M	LTST-C150KYKT
	Yellow-Green		588	2.0	30	60	20	130	160-1406-1-ND	.22	1.65	13.75	160-1406-2-ND	3,000	82.50/M	LTST-C150KSKT
	Green		574	2.0	30	35	20	130	160-1404-1-ND	.30	2.25	18.75	160-1404-2-ND	3,000	112.50/M	LTST-C150KGKT
2	Green/Red	Water Clear	574/639	2/2	30/30	35/25	20	130	160-1409-1-ND	.37	2.79	23.25	160-1409-2-ND	3,000	139.50/M	LTST-C155KGJRKT
	Green/Yellow		574/591	2/2	30/30	35/30	20	130	160-1410-1-ND	.37	2.79	23.25	160-1410-2-ND	3,000	139.50/M	LTST-C155KGJSKT
3	Super Red	Water Clear	639	2.0	30	54	20	130	160-1415-1-ND	.22	1.65	13.75	160-1415-2-ND	3,000	82.50/M	LTST-C170KRKT
	Red-Orange		621	2.0	30	55	20	130	160-1412-1-ND	.26	1.95	16.25	160-1412-2-ND	3,000	97.50/M	LTST-C170KAKT
	Orange		611	2.0	30	60	20	130	160-1413-1-ND	.22	1.65	13.75	160-1413-2-ND	3,000	82.50/M	LTST-C170KFKT
	Amber-Yellow		595	2.0	30	60	20	130	160-1417-1-ND	.22	1.65	13.75	160-1417-2-ND	3,000	82.50/M	LTST-C170KYKT
	Yellow		588	2.0	30	60	20	130	160-1416-1-ND	.22	1.65	13.75	160-1416-2-ND	3,000	82.50/M	LTST-C170KSKT
	Green		574	2.0	30	35	20	130	160-1414-1-ND	.22	1.65	13.75	160-1414-2-ND	3,000	82.50/M	LTST-C170KGKT
4	Super Red	Water Clear	639	2.0	30	54	20	130	160-1427-1-ND	.22	1.65	13.75	160-1427-2-ND	3,000	82.50/M	LTST-C171KRKT
	Red-Orange		621	2.0	30	55	20	130	160-1424-1-ND	.22	1.65	13.75	—	—	—	LTST-C171KAKT
	Orange		611	2.0	30	60	20	130	160-1425-1-ND	.22	1.65	13.75	160-1425-2-ND	3,000	82.50/M	LTST-C171KFKT
	Amber-Yellow		595	2.0	30	50	20	130	160-1429-1-ND	.22	1.65	13.75	160-1429-2-ND	3,000	82.50/M	LTST-C171KYKT
	Yellow		588	2.0	30	60	20	130	160-1428-1-ND	.22	1.65	13.75	160-1428-2-ND	3,000	82.50/M	LTST-C171KSKT
	Green		574	2.0	30	35	20	130	160-1426-1-ND	.30	2.25	18.75	160-1426-2-ND	3,000	112.50/M	LTST-C171KGKT
5	Super Red	Water Clear	639	2.0	30	54	20	130	160-1436-1-ND	.22	1.65	13.75	160-1436-2-ND	3,000	82.50/M	LTST-C190KRKT
	Red-Orange		621	2.0	30	55	20	130	160-1433-1-ND	.26	1.95	16.25	160-1433-2-ND	3,000	97.50/M	LTST-C190KAKT
	Orange		611	2.0	30	60	20	130	160-1434-1-ND	.22	1.65	13.75	160-1434-2-ND	3,000	82.50/M	LTST-C190KFKT
	Amber-Yellow		595	2.0	30	50	20	130	160-1438-1-ND	.26	1.95	16.25	160-1438-2-ND	3,000	97.50/M	LTST-C190KYKT
	Yellow		588	2.0	30	60	20	130	160-1437-1-ND	.22	1.65	13.75	160-1437-2-ND	3,000	82.50/M	LTST-C190KSKT
	Green		574	2.0	30	35	20	130	160-1435-1-ND	.22	1.65	13.75	160-1435-2-ND	3,000	82.50/M	LTST-C190KGKT
6	Super Red	Water Clear	639	2.0	30	54	20	130	160-1447-1-ND	.22	1.65	13.75	160-1447-2-ND	5,000	82.50/M	LTST-C191KRKT
	Red-Orange		621	2.0	20	55	20	130	160-1444-1-ND	.22	1.65	13.75	160-1444-2-ND	5,000	82.50/M	LTST-C191KAKT
	Yellow-Orange		611	2.0	30	60	20	130	160-1445-1-ND	.22	1.65	13.75	—	—	—	LTST-C191KFKT
	Yellow		591	2.0	30	60	20	130	160-1448-1-ND	.22	1.65	13.75	160-1448-2-ND	5,000	82.50/M	LTST-C191KSKT
	Green		574	2.0	30	35	20	130	160-1446-1-ND	.30	2.25	18.75	160-1446-2-ND	5,000	112.50/M	LTST-C191KGKT
7	Green/Red	Water Clear	574/639	2/2	30/30	35/25	20	130	160-1452-1-ND	.37	2.79	23.25	160-1452-2-ND	4,000	139.50/M	LTST-C195KGJRKT
	Green/Yellow		574/591	2/2	30/30	35/30	20	130	160-1453-1-ND	.37	2.79	23.25	160-1453-2-ND	4,000	139.50/M	LTST-C195KGJSKT
8	Super Red	Water Clear	639	2.0	30	54	20	130	160-1457-1-ND	.22	1.65	13.75	160-1457-2-ND	3,000	82.50/M	LTST-C230KRKT
	Red-Orange		621	2.0	30	55	20	130	160-1455-1-ND	.22	1.65	13.75	160-1455-2-ND	3,000	82.50/M	LTST-C230KAKT
	Yellow		588	2.0	30	60	20	130	160-1458-1-ND	.22	1.65	13.75	160-1458-2-ND	3,000	82.50/M	LTST-C230KSKT
	Green		574	2.0	30	35	20	130	160-1456-1-ND	.30	2.25	18.75	160-1456-2-ND	3,000	112.50/M	LTST-C230KGKT
10	Super Red	Water Clear	639	2.0	30	54	20	130	160-1469-1-ND	.22	1.65	13.75	160-1469-2-ND	4,000	82.50/M	LTST-S220KRKT
	Red-Orange		621	2.0	30	55	20	130	160-1467-1-ND	.22	1.65	13.75	160-1467-2-ND	4,000	82.50/M	LTST-S220KAKT
	Yellow		591	2.0	30	60	20	130	160-1470-1-ND	.22	1.65	13.75	160-1470-2-ND	4,000	82.50/M	LTST-S220KSKT
	Green		574	2.0	30	35	20	130	160-1468-1-ND	.30	2.25	18.75	160-1468-2-ND	4,000	112.50/M	LTST-S220KGKT
	Super Red		639	2.0	30	54	20	130	160-1479-1-ND	.22	1.65	13.75	160-1479-2-ND	4,000	82.50/M	LTST-S270KRKT
11	Red-Orange	Water Clear	621	2.0	30	55	20	130	160-1476-1-ND	.22	1.65	13.75	160-1476-2-ND	4,000	82.50/M	LTST-S270KAKT
	Yellow-Orange		611	2.0	20	60	20	130	160-1477-1-ND	.22	1.65	13.75	160-1477-2-ND	4,000	82.50/M	LTST-S270KFKT
	Amber-Yellow		595	2.0	20	50	20	130	160-1481-1-ND	.22	1.65	13.75	160-1481-2-ND	4,000	82.50/M	LTST-S270KYKT
	Yellow		591	2.0	30	60	20	130	160-1480-1-ND	.22	1.65	13.75	160-1480-2-ND	4,000	82.50/M	LTST-S270KSKT
	Green		574	2.0	30	35	20	130	160-1478-1-ND	.30	2.25	18.75	160-1478-2-ND	4,000	112.50/M	LTST-S270KGKT
12	Super Red	Water Clear	639	2.0	30	54	20	130	160-1487-1-ND	.22	1.65	13.75	160-1487-2-ND	3,000	82.50/M	LTST-S320KRKT
	Red Orange		621	2.0	30	55	20	130	160-1484-1-ND	.22	1.65	13.75	160-1484-2-ND	3,000	82.50/M	LTST-S320KAKT
	Amber-Yellow		595	2.0	30	50	20	130	160-1489-1-ND	.22	1.65	13.75	160-1489-2-ND	3,000	82.50/M	LTST-S320KYKT
	Yellow		591	2.0	30	60	20	130	160-1488-1-ND	.22	1.65	13.75	160-1488-2-ND	3,000	82.50/M	LTST-S320KSKT
	Green		574	2.0	30	35	20	130	160-1486-1-ND	.30	2.25	18.75	160-1486-2-ND	3,000	112.50/M	LTST-S320KGKT
13	Red/Green	Water Clear	574/639	2.0	30	100	20	120	160-1230-1-ND	.40	3.00	25.00	160-1230-2-ND	2,000	150.00/M	LTST-T675KGKRKT
	Green/Yellow		574/589	2.0	30	100	20	120	160-1231-1-ND	.40	3.00	25.00	160-1231-2-ND	2,000	150.00/M	LTST-T675KGKSKT
	Super Red		639	2.0	30	850	20	25	160-1463-1-ND	.26	1.95	16.25	160-1463-2-ND	1,500	97.50/M	LTST-C930KRKT
	Red		639	2.0	30	100	20	120	160-1226-1-ND	.32	2.40	20.00	160-1226-2-ND	2,000	120.00/M	LTST-T670KRKT
	Red-Orange		621	2.0	30	1050	20	25	160-1461-1-ND	.26	1.95	16.25	160-1461-2-ND	1,500	97.50/M	LTST-C930KAKT
	Orange		611	2.0	30	100	20	120	160-1225-1-ND	.32	2.40	20.00	160-1225-2-ND	2,000	120.00/M	LTST-T670KFKT
	Yellow		591	2.0	30	800	20	25	160-1464-1-ND	.26	1.95	16.25	160-1464-2-ND	1,500	97.50/M	LTST-C930KSKT
	Yellow		591	2.0	30	100	20	120	160-1227-1-ND	.32	2.40	20.00	160-1227-2-ND	2,000	120.00/M	LTST-T670KSKT
	Green		574	2.0	30	365	20	25	160-1462-1-ND	.30	2.25	18.75	160-1462-2-ND	1,500	112.50/M	LTST-C930KGKT
	Green		574	2.0	30	60	20	120	160-1228-1-ND	.24	1.80	15.00	160-1228-2-ND	2,000	90.00/M	LTST-T670KGKT

Infrared Emitting Diodes, Photodetectors and Photodiodes

Features of Infrared Emitting Diodes: • Selected to specific on-line intensity and radiant intensity ranges • Low cost plastic end looking package • Made with gallium aluminum arsenide window layer on gallium arsenide infrared emitting diodes

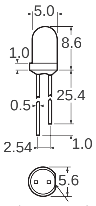
Features of Photodetectors and Photodiodes: • Lensed for high sensitivity • Low cost plastic package

Fig. 1



Flat denotes Cathode

Fig. 2



Flat denotes Cathode (Collector for 160-1031-ND)

Fig. 3

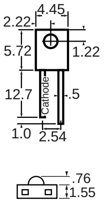
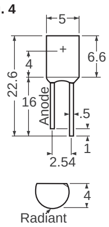


Fig. 4



Radiant sensitive area

Infrared Emitting Diodes

Fig.	Vf	Vr	I (ma)	Ipk amps	Viewing Angle	Digi-Key Part No.	Pricing 1	10	100
1	1.2	5	50	3	20°	160-1028-ND	.26	2.13	17.00
2	1.2	5	50	3	20°	160-1029-ND	.26	2.13	17.00
	1.2	5	50	3	40°	160-1061-ND	.26	2.13	17.00
	1.3	7.2	150	3	35°	160-1062-ND	.30	2.50	20.00
3	1.2	5	50	3	40°	160-1063-ND	.29	2.38	19.00

Matching Photodetectors

Fig.	Vce	Vec	On-State I (ma)	Rise/Fall (us)	Digi-Key Part No.	Pricing 1	10	100
1	30	5	2	5	160-1030-ND	.41	3.38	27.00
2	30	5	2	5	160-1031-ND	.42	3.50	28.00
3	30	5	1	5	160-1065-ND	.27	2.25	18.00

Photodiodes

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
4	Black Plastic Diode	160-1032-ND	.47	3.88	31.00

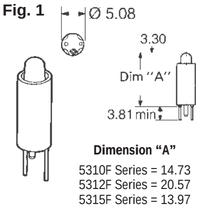
Absolute Max. Ratings at T_A = 25°C, λ = 940nm

PC Board Mounted LEDs

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	Chicago Miniature Part No.
T1									
1	Red	10	2.0	L20261-ND	1.10	22.33	64.60	142.50	5310F1
	Green	20	2.2	L20265-ND	1.10	22.33	64.60	142.50	5310F5
	Yellow	20	2.1	L20267-ND	1.10	22.33	64.60	142.50	5310F7
	Green	20	2.2	L20275-ND	1.10	22.33	64.60	142.50	5312F5
	Yellow	20	2.1	L20277-ND	1.10	22.33	64.60	142.50	5312F7
	Red	10	2.0	L20281-ND	1.10	22.33	64.60	142.50	5315F1
	Green	20	2.2	L20285-ND	1.10	22.33	64.60	142.50	5315F5
2	Red	10	2.0	L20151-ND	2.23	45.24	130.90	288.75	5360F1
	Green	20	2.2	L20155-ND	2.23	45.24	130.90	288.75	5360F5
	Yellow	20	2.1	L20157-ND	2.23	45.24	130.90	288.75	5360F7
3	Red	10	2.0	L20321-ND	.58	11.75	34.00	75.00	5600F1
	Green	20	2.2	L20325-ND	.58	11.75	34.00	75.00	5600F5
	Yellow	20	2.1	L20327-ND	.58	11.75	34.00	75.00	5600F7
	Red	10	5.0	L20331-ND	.84	17.04	49.30	108.75	5602F1-5V
	Amber	10	5.0	L20333-ND	.84	17.04	49.30	108.75	5602F3-5V
	Green	12	5.0	L20335-ND	.84	17.04	49.30	108.75	5602F5-5V
4	Red	20	1.8	L20191-ND	1.02	20.56	59.50	131.25	5608F1
	Green	20	2.3	L20195-ND	1.02	20.56	59.50	131.25	5608F5
	Yellow	20	2.2	L20197-ND	1.02	20.56	59.50	131.25	5608F7
5	Red	10	2.0	L20361-ND	.55	11.16	32.30	71.25	5650F1
	Green	20	2.2	L20365-ND	.55	11.16	32.30	71.25	5650F5
	Yellow	20	2.1	L20367-ND	.55	11.16	32.30	71.25	5650F7
	Red	2.0	1.8	L20371-ND	.70	14.10	40.80	90.00	5650F1LC
	Red	13	5.0	L20381-ND	.84	17.04	49.30	108.75	5652F1-5V
6	Red	10	2.0	L20401-ND	.90	18.21	52.70	116.25	5680F1;1
	Green	20	2.2	L20405-ND	.90	18.21	52.70	116.25	5680F5;5
	Yellow	20	2.1	L20407-ND	.90	18.21	52.70	116.25	5680F7;7
7	Red	10	2.2	L20411-ND	.90	18.21	52.70	116.25	6321F1
	Green	10	2.3	L20415-ND	.90	18.21	52.70	116.25	6321F5
	Yellow	10	2.2	L20417-ND	.90	18.21	52.70	116.25	6321F7
8	Red	10	2.0	L20421-ND	1.10	22.33	64.60	142.50	5322F1
	Green	20	2.2	L20425-ND	1.10	22.33	64.60	142.50	5322F5
	Yellow	20	2.1	L20427-ND	1.10	22.33	64.60	142.50	5322F7
	Red	10	2.0	L20431-ND	1.10	22.33	64.60	142.50	5320F1
	Yellow	20	2.1	L20437-ND	1.10	22.33	64.60	142.50	5320F7
	Red	10	2.0	L20441-ND	1.10	22.33	64.60	142.50	5321F1
	Green	20	2.2	L20445-ND	1.10	22.33	64.60	142.50	5321F5
9	Red	10	2.2	L2045111-ND	2.58	52.29	151.30	333.75	5693F1;1;1-A
	Green	10	2.3	L2045555-ND	2.58	52.29	151.30	333.75	5693F5;5;5-A
	Yellow	10	2.2	L2045777-ND	2.58	52.29	151.30	333.75	5693F7;7;7-A
10	Red	10	2.2	L20461111-ND	3.60	72.85	210.80	465.00	5694F1;1;1;1-A
	Green	10	2.3	L20465555-ND	3.60	72.85	210.80	465.00	5694F5;5;5;5-A
	Yellow	10	2.2	L20467777-ND	3.60	72.85	210.80	465.00	5694F7;7;7;-A
T 1 3/4									
11	Red	20	1.7	L20001-ND	.61	12.34	35.70	78.75	5300E1
	Red	20	2.0	L20011-ND	.44	8.81	25.50	56.25	5300H1
	Green	20	2.2	L20015-ND	.44	8.81	25.50	56.25	5300H5
	Yellow	20	2.1	L20017-ND	.44	8.81	25.50	56.25	5300H7
	Red	10	5.0	L20021-ND	.84	17.04	49.30	108.75	5302H1-5V
	Amber	10	5.0	L20023-ND	.84	17.04	49.30	108.75	5302H3-5V
	Green	20	5.0	L20025-ND	.84	17.04	49.30	108.75	5302H5-5V
	Red	2	1.8	L20031-ND	.58	11.75	34.00	75.00	5300H1LC
	Green	2	1.8	L20035-ND	.58	11.75	34.00	75.00	5300H5LC
	Yellow	2	1.9	L20037-ND	.58	11.75	34.00	75.00	5300H7LC
	Red	35	3.0	L20041-ND	.75	15.28	44.20	97.50	5308H1
	Green	20	2.5	L20045-ND	.75	15.28	44.20	97.50	5308H5
	Yellow	20	2.1	L20047-ND	.75	15.28	44.20	97.50	5308H7
11	Red/Green	10	2.2	L20048-ND	1.07	21.74	62.90	138.75	5300H1/5
12	Red	20	2.0	L20171-ND	.78	15.86	45.90	101.25	5306H1
	Amber	20	2.0	L20173-ND	.78	15.86	45.90	101.25	5306H3
	Green	20	2.2	L20175-ND	.78	15.86	45.90	101.25	5306H5
	Yellow	20	2.1	L20177-ND	.78	15.86	45.90	101.25	5306H7
13	Red	20	2.0	L20051-ND	.78	15.86	45.90	101.25	5307H1
	Green	20	2.2	L20055-ND	.78	15.86	45.90	101.25	5307H5
14	Red	20	2.0	L20061-ND	.78	15.86	45.90	101.25	5330H1
	Green	20	2.2	L20065-ND	.78	15.86	45.90	101.25	5330H5
	Yellow	20	2.2	L20067-ND	.78	15.86	45.90	101.25	5330H7
14	Red	20	2.0	L20731-ND	.78	15.86	45.90	101.25	5331H1
	Green	20	2.1	L20735-ND	.78	15.86	45.90	101.25	5331H5
	Yellow	20	2.1	L20737-ND	.78	15.86	45.90	101.25	5331H7
15	Red	20	2.0	L20251-ND	1.19	24.09	69.70	153.75	5341H1
	Green	20	2.1	L20255-ND	1.19	24.09	69.70	153.75	5341H5
	Yellow	20	2.1	L20257-ND	1.19	24.09	69.70	153.75	5341H7
16	Red	20	1.7	L20301-ND	.61	12.34	35.70	78.75	5380E1
	Red	20	2.0	L20311-ND	.61	12.34	35.70	78.75	5380H1
	Green	20	2.2	L20315-ND	.61	12.34	35.70	78.75	5380H5
	Yellow	20	2.1	L20317-ND	.61	12.34	35.70	78.75	5380H7
17	Red	20	2.0	L20161-ND	.67	13.51	39.10	86.25	5381H1
	Green	20	2.2	L20165-ND	.67	13.51	39.10	86.25	5381H5
	Yellow	20	2.1	L20167-ND	.67	13.51	39.10	86.25	5381H7
18	Red	20	1.7	L20341-ND	2.52	51.11	147.90	326.25	5640E1
	Red	20	2.0	L20351-ND	2.52	51.11	147.90	326.25	5640H1
	Green	20	2.2	L20355-ND	2.52	51.11	147.90	326.25	5640H5
	Yellow	20	2.1	L20357-ND	2.52	51.11	147.90	326.25	5640H7
19	Red	20	2.0	L20391-ND	1.39	28.20	81.60	180.00	5670H1;1
	Green	20	2.2	L20395-ND	1.39	28.20	81.60	180.00	5670H5;5
	Yellow	20	2.1	L20397-ND	1.39	28.20	81.60	180.00	5670H7;7
20	Red	20	2.0	L20491-ND	.78	15.86	45.90	101.25	5332H1
	Green	20	2.1	L20495-ND	.78	15.86	45.90	101.25	5332H5
	Yellow	20	2.1	L20497-ND	.78	15.86	45.90	101.25	5332H7
21	Red/Green	15	2.1	L20488-ND	1.94	39.36	113.90	251.25	5305H1/5
	Amber/Green	15	2.1	L205935-ND	1.94	39.36	113.90	251.25	5305H3/5
2mm									
22	Red	10	2.2	L20081-ND	.93	18.80	54.40	120.00	5350T1
	Green	10	2.3	L20085-ND	.93	18.80	54.40	120.00	5350T5
	Yellow	10	2.2	L20087-ND	.93	18.80	54.40	120.00	5350T7
	Red	9.6	5.0	L20091-ND	1.04	21.15	61.20	135.00	5352T1-5V
	Amber	10	5.0	L20093-ND	1.04	21.15	61.20	135.00	5352T3-5V
	Green	10	5.0	L20095-ND	1.04	21.15	61.20	135.00	5352T5-5V
	Red	2	1.8	L20101-ND	1.10	22.33	64.60	142.50	5350T1LC
	Green	2	1.8	L20105-ND	1.10	22.33	64.60	142.50	5350T5LC
	Yellow	2	1.9	L20107-ND	1.10	22.33	64.60	142.50	5350T7LC
	Red	3.5	5.0	L20111-ND	1.10	22.33	64.60	142.50	5352T1-5VLC
	Amber	3.5	5.0	L20113-ND	1.10	22.33	64.60	142.50	5352T3-5VLC
	Green	3.5	5.0	L20115-ND	1.10	22.33	64.60	142.50	5352T5-5VLC

NOTE: Figures 1-10 are T1's; Figures 11-21 are T1 3/4's

Fig. 1



Dimension "A"
5310F Series = 14.73
5312F Series = 20.57
5315F Series = 13.97

Fig. 2

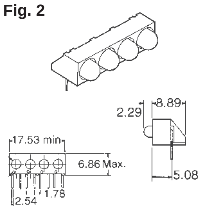


Fig. 3

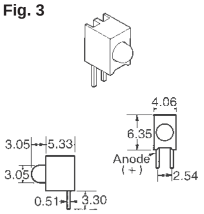
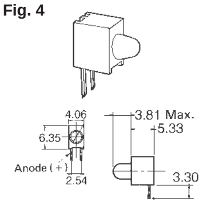


Fig. 4



Clear Lens

Fig. 5

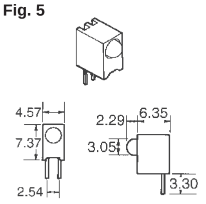


Fig. 6

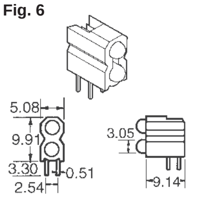
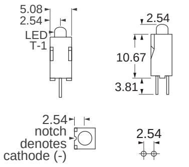
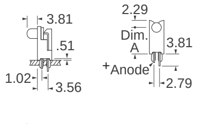


Fig. 7



"Stackable"

Fig. 8



4.83
2.54

Dimension "A"
5320F Series = 8.89
5321F Series = 11.43
5322F Series = 6.35

Fig. 9

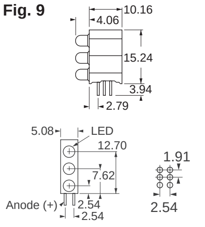


Fig. 10

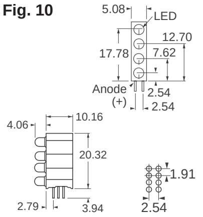
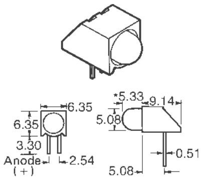


Fig. 11



* 3.3 for Part No. L20001-ND

Fig. 12

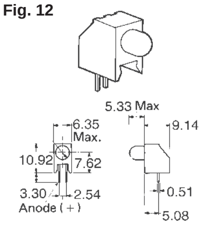


Fig. 13

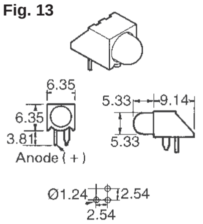


Fig. 14

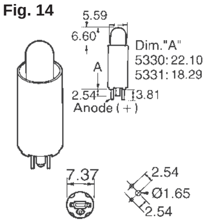


Fig. 15

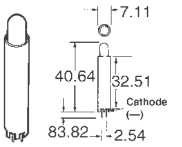


Fig. 16

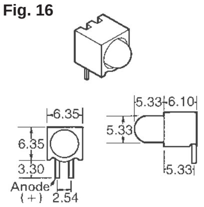


Fig. 17

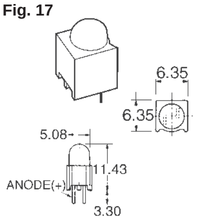


Fig. 18

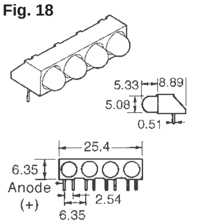


Fig. 19

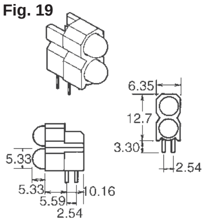


Fig. 20

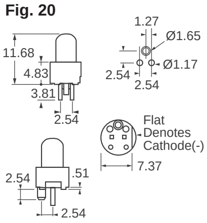
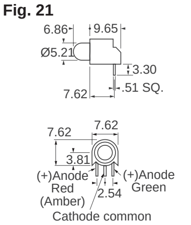


Fig. 21



(Continued)

PC Board Mounted LEDs *(Cont.)*

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	Chicago Miniature Part No.
2mm									
23	Red	10	2.2	L20121-ND	1.57	31.73	91.80	202.50	5370T1
	Green	10	2.3	L20125-ND	1.57	31.73	91.80	202.50	5370T5
	Yellow	10	2.2	L20127-ND	1.57	31.73	91.80	202.50	5370T7
	Red	9.5	5.0	L20131-ND	1.71	34.66	100.30	221.25	5372T1-5V
	Amber	10	5.0	L20133-ND	1.71	34.66	100.30	221.25	5372T3-5V
	Green	10	5.0	L20135-ND	1.71	34.66	100.30	221.25	5372T5-5V
	Red	2	1.8	L20141-ND	1.74	35.25	102.00	225.00	5370T1LC
	Green	2	1.8	L20145-ND	1.74	35.25	102.00	225.00	5370T5LC
	Yellow	2	1.9	L20147-ND	1.74	35.25	102.00	225.00	5370T7LC
	Red	3.5	5.0	L20291-ND	1.74	35.25	102.00	225.00	5372T1-5VLC
	Amber	3.5	5.0	L20293-ND	1.74	35.25	102.00	225.00	5372T3-5VLC
	Green	3.5	5.0	L20295-ND	1.74	35.25	102.00	225.00	5372T5-5VLC
Rectangular									
24	Red	20	2.1	L20541-ND	1.31	26.44	76.50	168.75	5636D1
	Green	20	2.1	L20545-ND	1.31	26.44	76.50	168.75	5636D5
	Yellow	20	2.2	L20547-ND	1.31	26.44	76.50	168.75	5636D7
25	Red	10	2.1	L20571-ND	6.26	126.90	367.20	810.00	5638D1

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 750	Chicago Miniature Part No.
PC Board Mount on Tape and Reel										
26	Red	10	2.0	L60011CT-ND	1.09	9.30	77.50	L60011TR-ND	348.75	5655F1
	Green	20	2.2	L60015CT-ND	1.09	9.30	77.50	L60015TR-ND	348.75	5655F5

NOTE: Figures 22-23 are 2mm Diameter LED's; Figure 26 is Tape & Reel.

Fig. 22

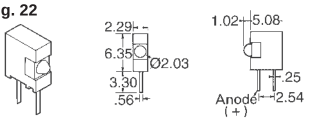


Fig. 23

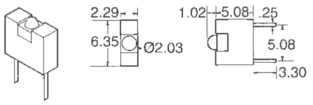


Fig. 24

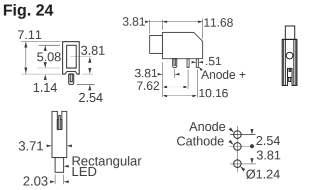


Fig. 25

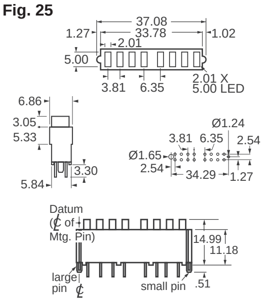
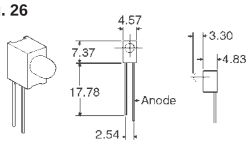


Fig. 26



Panel Mount LED Assemblies

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	Chicago Miniature Part No.
1	Red	20	2.0	L10001-ND	1.33	27.03	78.20	172.50	5100H1
	Green	20	2.2	L10005-ND	1.33	27.03	78.20	172.50	5100H5
	Yellow	20	2.1	L10007-ND	1.33	27.03	78.20	172.50	5100H7
	Red	2	1.8	L10011-ND	1.71	34.66	100.30	221.25	5100H1LC
	Yellow	2	1.9	L10017-ND	1.71	34.66	100.30	221.25	5100H7LC
	Red	10	5.0	L10021-ND	1.86	37.60	108.80	240.00	5102H1-5V
	Amber	10	5.0	L10023-ND	1.86	37.60	108.80	240.00	5102H3-5V
	Green	12	5.0	L10025-ND	1.86	37.60	108.80	240.00	5102H5-5V
	Red/Green	20	2.2	L10008-ND	2.18	44.06	127.50	281.25	5100H1/5
2	Red	20	2.0	L10031-ND	1.22	24.68	71.40	157.50	5101H1
	Green	20	2.2	L10035-ND	1.22	24.68	71.40	157.50	5101H5
	Yellow	20	2.1	L10037-ND	1.22	24.68	71.40	157.50	5101H7
3	Red	10	2.0	L10041-ND	1.51	30.55	88.40	195.00	5110F1
	Green	20	2.2	L10045-ND	1.51	30.55	88.40	195.00	5110F5
	Yellow	20	2.1	L10047-ND	1.51	30.55	88.40	195.00	5110F7
	Red	2	1.8	L10051-ND	2.00	40.54	117.30	258.75	5110F1LC
	Yellow	2	1.9	L10057-ND	2.00	40.54	117.30	258.75	5110F7LC
4	Red	10	2.0	L10061-ND	.84	17.04	49.30	108.75	5111F1
	Green	20	2.2	L10065-ND	.84	17.04	49.30	108.75	5111F5
	Yellow	20	2.1	L10067-ND	.84	17.04	49.30	108.75	5111F7
5	Red	10	2.0	L10091-ND	2.06	41.71	120.70	266.25	5210F1
	Green	20	2.2	L10095-ND	2.06	41.71	120.70	266.25	5210F5
	Yellow	20	2.1	L10097-ND	2.06	41.71	120.70	266.25	5210F7
6	Red	20	2.0	L10071-ND	2.58	52.29	151.30	333.75	5400A1
	Green	20	2.1	L10075-ND	2.58	52.29	151.30	333.75	5400A5
	Yellow	20	2.1	L10077-ND	2.58	52.29	151.30	333.75	5400A7
7	Red	10	2.0	L50381-ND	2.96	59.93	173.40	382.50	3990A1
	Amber	10	2.0	L50383-ND	2.96	59.93	173.40	382.50	3990A3
	Green	20	2.2	L50385-ND	2.96	59.93	173.40	382.50	3990A5
	Yellow	20	2.1	L50387-ND	2.96	59.93	173.40	382.50	3990A7

Fig.	Dia. (mm)	Volts	Termination	Digi-Key Part No.	Pricing 1	25	100	C.M. Part No.
8	12.70	6	Wire	L5014☐-ND	3.92	79.31	229.50	1091M☐-6V
	12.70	12	Wire	L5015☐-ND	3.92	79.31	229.50	1091M☐-12V
	12.70	24	Wire	L5016☐-ND	3.92	79.31	229.50	1091M☐-24V
	12.70	12	4.75mm Terminal	L5017☐-ND	4.15	84.01	243.10	1091QM☐-12V
	12.70	24	4.75mm Terminal	L5018☐-ND	4.15	84.01	243.10	1091QM☐-24V
9	7.87	6	Wire	L5025☐-ND	3.94	79.90	231.20	2191L☐-6V
	7.87	12	Wire	L5026☐-ND	3.94	79.90	231.20	2191L☐-12V
	7.87	24	Wire	L5027☐-ND	3.94	79.90	231.20	2191L☐-24V
	7.87	12	4.75mm Terminal	L5028☐-ND	4.15	84.01	243.10	2191QL☐-12V
	7.87	24	4.75mm Terminal	L5029☐-ND	4.15	84.01	243.10	2191QL☐-24V
10	7.87	6	Wire	L5030☐-ND	3.94	79.90	231.20	2191U☐-6V
	7.87	12	Wire	L5031☐-ND	3.94	79.90	231.20	2191U☐-12V
	7.87	24	Wire	L5032☐-ND	3.94	79.90	231.20	2191U☐-24V
	7.87	12	4.75mm Terminal	L5033☐-ND	4.15	84.01	243.10	2191QU☐-12V
	7.87	24	4.75mm Terminal	L5034☐-ND	4.15	84.01	243.10	2191QU☐-24V

For ☐ in Digi-Key Part No. choose one of the following: **1**=Red; **5**=Green; **7**=Yellow

Fig. 1

Mounting: Will snap-fit in 6.32/6.45mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 24 AWG, 152.40mm long. **Housing:** Black nylon. **Anode:** (+): Red lead. **Anode for L10008-ND:** (+): Yellow lead for red light, blue lead for green light.

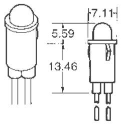


Fig. 2

Mounting: Will snap-fit in 6.32/6.45mm dia. hole in panels .79/1.57mm thick. **Terminals:** .51mm Sq. **Housing:** Black nylon.

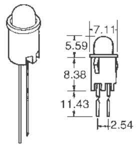


Fig. 3

Mounting: Will snap-fit in 3.94/4.01mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 24 AWG, 152.40mm long, stripped 4.57/8.13mm. **Anode** (+): Red lead. **Housing:** Black nylon.

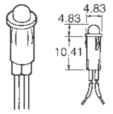


Fig. 4

Mounting: Will snap-fit in 3.94/4.01mm dia. hole in panels .79/1.57mm thick. **Terminals:** .51mm Sq. **Housing:** Black nylon.

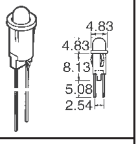


Fig. 5

Mounting: Will snap-fit into 4.75/4.88mm diameter hole in panel .51/2.46mm thick. **Wire Leads:** 26 AWG, 111.76/121.92mm long stripped. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** Polycarbonate.

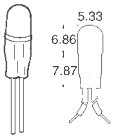


Fig. 6

Mounting: Will snap-fit into 7.92/8.05mm dia. hole in panel .51/2.49mm thick. **Wire Leads:** 24 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** Natural nylon.

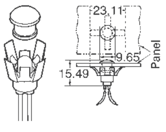


Fig. 7

Mounting: Will snap-fit into 5.51/5.61mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 26 AWG, 111.76/121.92mm long stripped. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** White nylon.

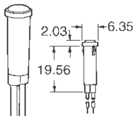


Fig. 8

Wire Leads: 22 AWG, 111.76 /121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal

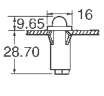


Fig. 9

Wire Leads: 22 AWG, 111.76 /121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal with speed nut

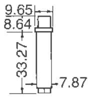
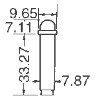


Fig. 10

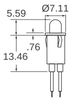
Wire Leads: 22 AWG, 111.76 /121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal with speed nut



Flashers

Series 5100H Flasher

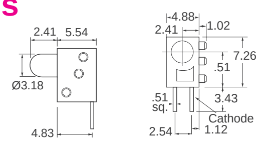
Features: • Built-in flashing circuit • Flashing rate: 1.5 - 2.5 Hz • No external resistor required **Mounting:** Will snap fit in 6.32/6.45mm dia. hole in panels .79/1.57mm. **Wire Leads:** No. 24 AWG, 152.40mm insulated, bonded strands, stripped 12.70mm. **Anode (+):** Red Lead **Housing:** Black Nylon



Color	I_V mcd	Current mA	V_F (V)	Digi-Key Part No.	Pricing 1	25	100	C.M. Part No.
Red	12.5	20	13	L20691-ND	2.70	54.64	158.10	5100H1FL
Green	8.0	20	13	L20695-ND	2.70	54.64	158.10	5100H5FL
Yellow	12.5	20	13	L20697-ND	2.70	54.64	158.10	5100H7FL

T1 Modular LEDs

FEATURES:
- Mount up to 12 LEDs in one operation
- Unitized vibration resistant package
- Black housing for high contrast background
- Wide viewing angle
- Vertical or horizontal positioning
- Interlocking construction
- Hi brite diffused LEDs
- Speeds mounting for increased productivity and reduced cost



Mount from 1 to 12 circuit board indicators, as a single unit. Unique snap-together feature.

LED/Lens	Forward Voltage Typ.	If=(mA)	Min. V_R	Max. I_F (mA)	Typ. I_O (mcd)	View Angle	Digi-Key Part No.	Pricing 1	25	100	C.M. Part No.
Red/Clear	2.2	20	5.0	30	60.0	40°	CMC01R-ND	.67	13.51	39.10	CMC01R
Yellow/Clear	2.2	20	5.0	20	60.0	40°	CMC01Y-ND	.67	13.51	39.10	CMC01Y
Green/Clear	2.2	20	5.0	30	60.0	40°	CMC01G-ND	.67	13.51	39.10	CMC01G
Red/Diff.	2.0	20	5.0	30	20.0	90°	CMW01R-ND	.78	15.86	45.90	CMW01R
Yellow/Diff.	2.1	20	5.0	30	12.5	90°	CMW01Y-ND	.78	15.86	45.90	CMW01Y
Green/Diff.	2.2	20	5.0	30	12.5	90°	CMW01G-ND	.78	15.86	45.90	CMW01G

CHICAGO MINIATURE LAMP, INC.
WHERE INNOVATION COMES TO LIGHT

Optical Light Pipes for SMD-Style LED

Fig. 1

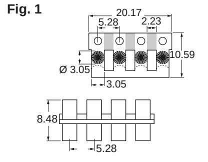


Fig. 2

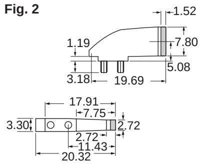


Fig. 3

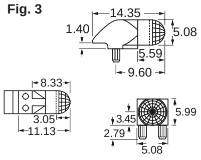


Fig. 4

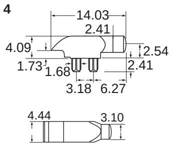


Fig. 5

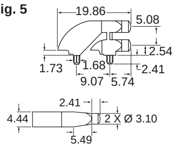


Fig. 6

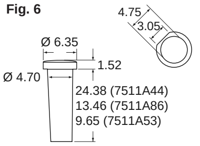


Fig. 7

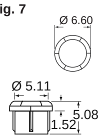


Fig. 8 *NEW!*

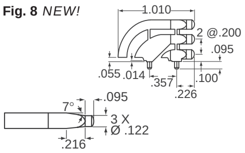


Fig. 9 *NEW!*
Flexible Light Pipe

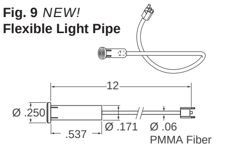


Fig.	Color	Digi-Key Part No.	Price Each 1	25	100	250	500	Chicago Mini. Part No.
1	Clear	L71200-ND	2.32	1.88	1.36	1.20	1.16	7640D2
2		L71300-ND	.55	.45	.33	.29	.28	7610D2
3		L71400-ND	1.33	1.09	.79	.69	.67	7511G2
4		L70510-ND	.84	.69	.50	.44	.42	7511A85
5		L70520-ND	.93	.76	.55	.48	.47	7511A62
6	Clear	L70540-ND	.67	.55	.40	.35	.34	7511A44
6		L70550-ND	.61	.50	.36	.32	.31	7511A86
6		L70560-ND	.61	.50	.36	.32	.31	7511A53
7		L70570-ND	.61	.50	.36	.32	.31	7511A18
8		L70580-ND	.93	.76	.55	.48	.47	7511B11
9		L70590-ND	2.63	2.14	1.55	1.37	1.31	7512FPR-305

PC Board Mount T-1 LEDs

Fig. 1

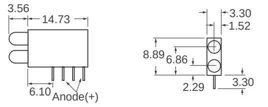


Fig. 2

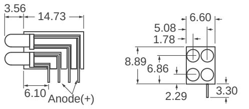
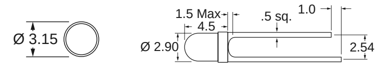


Fig.	Color	Typ. mcd	Forward Voltage mA	Typ. (V)	Digi-Key Part No.	Price Each 1	25	100	Chicago Miniature Part No.
1	Red	10.0	10	2.2	L206011-ND	1.94	1.58	1.14	5682F1;1
	Green	8.5	10	2.3	L206055-ND	1.94	1.58	1.14	5682F5;5
	Yellow	10.0	10	2.2	L206077-ND	1.94	1.58	1.14	5682F7;7
2	Red	10.0	10	2.2	L206111-ND	3.60	2.92	2.11	5684F1;1;1;1
	Green	8.5	10	2.3	L206555-ND	3.60	2.92	2.11	5684F5;5;5;5
	Yellow	10.0	10	2.2	L206777-ND	3.60	2.92	2.11	5684F7;7;7;7

High Brightness LEDs



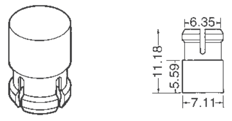
* Blue Diffused Lens

Dia. (mm)	Color	Wave-length (nm)	V_f Typ (V)	I_f Typ (mA)	I_v Typ (mcd)	Digi-Key Part No.	Price Each 1	25	100	Chicago Miniature Part No.
3	Blue	430	5	20	100	L14006-ND*	1.89	1.53	1.11	CMD264-UBD

LED Lenses

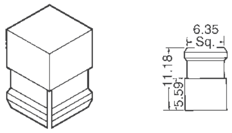
These LED lenses provide quick, economical panel mounting as well as ESD protection. Molded in Fresnel rings provide a wide viewing angle.

Fig. 1



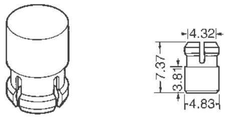
6.35mm Dia. for T1-3/4 LEDs

Fig. 2



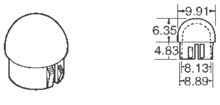
6.35mm Dia. for T1-3/4 LEDs

Fig. 3



4.37mm Dia. for T-1 LEDs

Fig. 4



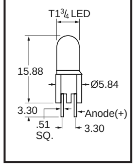
9.13mm Dia. for T1-3/4 LEDs

Fig.	Digi-Key Part No.	Price Each 1	25	100	250	Chicago Miniature Part No.
1	L3000☐-ND	.38	.31	.23	.20	431☐
2	L3001☐-ND	.46	.38	.28	.24	432☐
3	L3002☐-ND	.38	.31	.23	.20	433☐
4	L3003☐-ND	.46	.38	.28	.24	434☐

For ☐ in Digi-Key Part No., choose one of the following: **1**=Red; **2**=Clear; **3**=Amber; **5**=Green; **6**=Blue; **7**=Yellow

Circuit Board Indicator

Super Bright

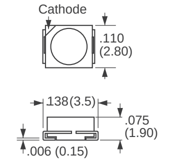


Color	Typ. mcd	Forward Volt mA	Typ. (V)	Digi-Key Part No.	Price Each 1	25	100	Chicago Mini. Part No.
Super Bright								
Red	30.0	20	2.0	L20651-ND	.90	.73	.53	5340H1
Green	30.0	20	2.2	L20655-ND	.90	.73	.53	5340H5
Yellow	25.0	20	2.2	L20657-ND	.90	.73	.53	5340H7
Red	2.0	2	1.8	L20661-ND	.99	.80	.58	5340H1LC
Green	2.5	2	1.8	L20665-ND	.99	.80	.58	5340H5LC
Yellow	2.0	2	1.9	L20667-ND	.99	.80	.58	5340H7LC

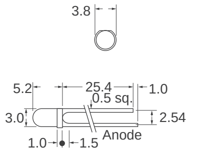
Bright•White™ LEDs

• Peak Forward Current: Surface Mount: 100mA Through-Hole: 80mA • Continuous Forward Current: Surface Mount: 30mA Through-Hole: 25mA • Emitted Color: White • Lens Color: Water Clear

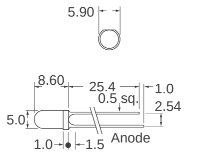
SMD Package



T-1 Package



T1-3/4 Package



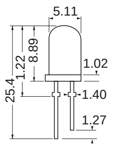
Pkg. Type	V_t Typ.	mcd Typ.	I_f (mA) Typ.	View Angle	Digi-Key Part No.	Price Each 1	10	100	T & R* Pricing 2,000	Chicago Miniature Part No.
SMD	3.6	170	20	100°	CMD67-21UWCCT-ND†	3.00	2.78	2.49	1875.00/M	CMD67-21UWC/TR8
T-1	3.70	1000	20	20°	CMD204UWC-ND	3.00	2.78	2.49	—	CMD204UWC
T1-3/4	3.75	2300	20	20°	CMD333UWC-ND	3.00	2.78	2.49	—	CMD333UWC

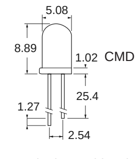
* For Tape & Reel part number, change CT-ND to TR-ND † Cut Tape Price

LEDs

T1-3/4 UltraBright

HLMP With Stand-off





FEATURES: • Min. 80 mcd. • Pale tint avoids mix problems. • With or without stand-off.

Lens Color	Source Color	P_D (mW)	Min. I_V mcd	Max. V_F (V)	Typ. I_p (nm)	View Angle	Digi-Key Part No.	Pricing 1	25	100	Chicago Miniature Part No.
Clear †	Hi. Eff. Red	135	80	2.2	635	24°	HLMP3750ACM-ND	.29	5.88	17.00	HLMP-3750A
Clear	Hi. Eff. Red	135	80	2.2	635	24°	CMD3750-ND	.23	4.70	13.60	CMD3750
Clear †	Hi. Eff. Green	135	80	2.2	565	24°	HLMP3950ACM-ND	.35	7.05	20.40	HLMP-3950A
Clear	Hi. Eff. Green	135	80	2.2	565	24°	CMD3450-ND	.26	5.29	15.30	CMD3450
Clear †	Yellow	85	80	2.2	585	24°	HLMP3850ACM-ND	.35	7.05	20.40	HLMP-3850A
Clear	Yellow	85	80	2.2	585	24°	CMD3350-ND	.23	4.70	13.60	CMD3350

† With Stand-off

CHICAGO MINIATURE LAMP, INC.
WHERE INNOVATION COMES TO LIGHT

Surface Mount LEDs

Fig.	Wave-length	Color	Lens Color	TYP mcd	Forward Voltage TYP	@ mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing*	Chicago Miniature Part No.
							CMD11-21 Series					
1	640	Red	Clear	6	2.0	20	L62001CT-ND	.39	.33	.28	330.00/2,000	CMD11-21VRC/TR8
	585	Yellow	Clear	6	2.0	20	L62007CT-ND	.37	.32	.27	315.00/2,000	CMD11-21VYC/TR8
							CMDA1 Series					
1	660	Red	Clear	33.6	1.7	20	L71501CT-ND	.32	.27	.23	337.50/2,500	CMDA1DR7A1Z
	580	Yellow	Clear	6.0	2.2	20	L71502CT-ND	.32	.27	.23	337.50/2,500	CMDA1CY7A1Z
	570	Yellow	Clear	24.0	2.1	20	L71503CT-ND	.32	.27	.23	337.50/2,500	CMDA1AY7A1Z
	560	Green	Clear	12.0	2.1	20	L71504CT-ND	.32	.27	.23	337.50/2,500	CMDA1CG7A1Z
							CMD12-21 Series					
2	640	Red	Clear	5	2.0	20	L62101CT-ND	.39	.33	.28	330.00/2,000	CMD12-21VRC/TR8
	660	Super Red	Clear	24.0	1.7	20	L62111CT-ND	.50	.43	.36	—	CMD12-21SRC/TR8
	570	Ultra Green	Clear	14.9	2.1	20	L62115CT-ND	.49	.42	.35	420.00/2,000	CMD12-21UGC/TR8
							CMDA7 Series					
2	660	Red	Clear	12.4	1.7	20	L71509CT-ND	.32	.27	.23	540.00/3,000	CMDA7DR7A1Z
	580	Yellow	Clear	3.0	2.1	20	L71510CT-ND	.32	.27	.23	540.00/3,000	CMDA7CY7A1Z
	570	Yellow	Clear	8.8	2.1	20	L71511CT-ND	.32	.27	.23	540.00/3,000	CMDA7AY7A1Z
	560	Green	Clear	5.2	2.1	20	L71512CT-ND	.32	.27	.23	540.00/3,000	CMDA7CG7A1Z
							CMD15-21 Series					
3	640	Red	Clear	6	2.0	20	L62201CT-ND	.35	.30	.25	300.00/2,000	CMD15-21VRC/TR8
	570	Green	Clear	10	2.1	20	L62205CT-ND	.32	.27	.23	270.00/2,000	CMD15-21VGC/TR8
	430	Ultra Blue	Clear	45	4.9	20	L62206CT-ND	3.43	2.94	2.45	2940.00/2,000	CMD15-21UBC/TR8
	581	Yellow	Clear	6	2.0	20	L62207CT-ND	.39	.33	.28	330.00/2,000	CMD15-21VYC/TR8
	660	Super Red	Clear	15	1.7	20	L62211CT-ND	.46	.39	.33	390.00/2,000	CMD15-21SRC/TR8
	565	Ultra Green	Clear	12	2.1	20	L62215CT-ND	.42	.36	.30	360.00/2,000	CMD15-21UGC/TR8
	640	Red	Diff	4	2.0	20	L62301CT-ND	.28	.24	.20	240.00/2,000	CMD15-21VRD/TR8
	570	Green	Diff	6.5	2.1	20	L62305CT-ND	.28	.24	.20	240.00/2,000	CMD15-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62307CT-ND	.28	.24	.20	240.00/2,000	CMD15-21VYD/TR8
							CMD15-22 Series					
4	640/570	Red/Grn.	Clear	6.0/10.0	2.0/2.1	20	L622015CT-ND	.67	.57	.48	570.00/2,000	CMD15-22VRVGC/TR8
	660/565	Red/Grn.	Clear	15.0/12.0	1.7/2.1	20	L6221115CT-ND	.81	.69	.58	690.00/2,000	CMD15-22RUGC/TR8
							CMD17-21 Series					
5	640	Red	Clear	13	2.0	20	L62401CT-ND	.28	.24	.20	360.00/3,000	CMD17-21VRC/TR8
	585	Yellow	Clear	12	2.0	20	L62407CT-ND	.29	.26	.21	—	CMD17-21VYC/TR8
	570	Ultra Green	Clear	15.0	2.1	20	L62415CT-ND	.32	.27	.23	405.00/3,000	CMD17-21UGC/TR8
	640	Red	Diff	6.0	2.0	20	L62501CT-ND	.32	.27	.23	405.00/3,000	CMD17-21VRD/TR8
	570	Green	Diff	7.0	2.1	20	L62505CT-ND	.32	.27	.23	405.00/3,000	CMD17-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62507CT-ND	.39	.33	.28	495.00/3,000	CMD17-21VYD/TR8
							CMDA5 Series					
6	660	Red	Clear	11.7	1.7	20	L71505CT-ND	.32	.27	.23	540.00/4,000	CMDA5DR7D1Z
	580	Yellow	Clear	3.7	2.2	20	L71506CT-ND	.32	.27	.23	540.00/4,000	CMDA5CY7D1Z
	570	Yellow	Clear	11.7	2.1	20	L71507CT-ND	.32	.27	.23	540.00/4,000	CMDA5AY7D1Z
	560	Green	Clear	6.4	2.1	20	L71508CT-ND	.32	.27	.23	540.00/4,000	CMDA5CG7D1Z
							CMD28-21 Series					
7	640	Red	Clear	3	2.0	20	L62601CT-ND	.39	.33	.28	330.00/2,000	CMD28-21VRC/TR8
	570	Green	Clear	5.5	2.1	20	L62605CT-ND	.39	.33	.28	330.00/2,000	CMD28-21VGC/TR8
	660	Super Red	Clear	17	1.7	20	L62611CT-ND	.46	.39	.33	390.00/2,000	CMD28-21SRC/TR8
	640	Red	Clear	0.16	2.0	1	L62701CT-ND	.39	.33	.28	330.00/2,000	CMD28-21VRC/TR8/T1
	570	Green	Clear	0.16	2.1	1	L62705CT-ND	.39	.33	.28	330.00/2,000	CMD28-21VGC/TR8/T1
	660	Super Red	Clear	1.6	1.7	1	L62711CT-ND	.53	.45	.38	450.00/2,000	CMD28-21SRC/TR8/T1
							CMD67-21 Series					
8	640	Red	Clear	10	2.0	20	L62801CT-ND	.56	.48	.40	480.00/2,000	CMD67-21VRC/TR8
	570	Green	Clear	25	2.1	20	L62805CT-ND	.42	.36	.30	360.00/2,000	CMD67-21VGC/TR8
	585	Yellow	Clear	10	2.0	20	L62807CT-ND	.49	.42	.35	420.00/2,000	CMD67-21VYC/TR8
	660	Super Red	Clear	40	1.7	20	L62811CT-ND	.63	.54	.45	540.00/2,000	CMD67-21SRC/TR8
	660	Ultra Red	Clear	62	1.7	20	L628111CT-ND†	.88	.75	.63	750.00/2,000	CMD67-21URC/TR8
							CMD67-22 Series					
9	640/570	Red/Grn.	Clear	10.0/25.0	2.0/2.1	20	L628015CT-ND	1.16	.99	.83	990.00/2,000	CMD67-22VRVGC/TR8
	660/565	Red/Grn.	Clear	40.0/25.0	1.7/2.1	20	L6281115CT-ND	1.16	.99	.83	990.00/2,000	CMD67-22SRUGC/TR8
							CMD91-21/TR7 Series					
10	640	Red	Clear	80	2.0	20	L62901CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VRC/TR7
	565	Green	Clear	50	2.1	20	L62905CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VGC/TR7
	585	Yellow	Clear	30	2.0	20	L62907CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VYC/TR7
	660	Super Red	Clear	170	1.7	20	L62911CT-ND	.49	.42	.35	210.00/1,000	CMD91-21SRC/TR7
							CMD91-21/TR9 Series					
11	640	Red	Clear	80	2.0	20	L63001CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VRC/TR9
	565	Green	Clear	50	2.1	20	L63005CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VGC/TR9
	585	Yellow	Clear	30	2.0	20	L63007CT-ND	.49	.42	.35	210.00/1,000	CMD91-21VYC/TR9
	660	Super Red	Clear	170	1.7	20	L63011CT-ND	.49	.42	.35	210.00/1,000	CMD91-21SRC/TR9
							CMD91-21/TR10 Series					
12	640	Red	Clear	80	2.0	20	L63101CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VRC/TR10
	565	Green	Clear	50	2.1	20	L63105CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VGC/TR10
	585	Yellow	Clear	30	2.0	20	L63107CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VYC/TR10
	660	Super Red	Clear	170	1.7	20	L63111CT-ND	.49	.42	.35	210.00/1,000	CMD91-21SRC/TR10
							CMD93-21/F8 Series					
13	640	Red	Clear	12	2.0	20	L63201CT-ND	.56	.48	.40	480.00/2,000	CMD93-21VRC/TR8
	570	Green	Clear	25	2.1	20	L63205CT-ND	.49	.42	.35	420.00/2,000	CMD93-21VGC/TR8
							CMD93-22/F8 Series					
14	660/570	Red/Grn.	Clear	40.0/20.0	1.7/2.1	20	L632115CT-ND	1.02	.87	.73	435.00/1,000	CMD93-22SRVGC/TR8
							CMD95-21/TR7 Series					
15	640	Red	Clear	25	2.0	20	L63301CT-ND	.42	.36	.30	180.00/1,000	CMD95-21VRC/TR7
	570	Green	Clear	19.5	2.1	20	L63305CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VGC/TR7
	585	Yellow	Clear	25	2.0	20	L63307CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VYC/TR7
	660	Super Red	Clear	100	1.7	20	L63311CT-ND	.49	.42	.35	210.00/1,000	CMD95-21SRC/TR7
							CMD95-21/TR9 Series					
16	640	Red	Clear	25	2.0	20	L63401CT-ND	.42	.36	.30	180.00/1,000	CMD95-21VRC/TR9
	570	Green	Clear	19.5	2.1	20	L63405CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VGC/TR9
							CMD95-21/TR10 Series					
17	640	Red	Clear	25	2.0	20	L63501CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VRC/TR10
	570	Green	Clear	19.5	2.1	20	L63505CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VGC/TR10
	585	Yellow	Clear	25	2.0	20	L63507CT-ND	.49	.42	.35	210.00/1,000	CMD95-21VYC/TR10
	660	Super Red	Clear	100	1.7	20	L63511CT-ND	.49	.42	.35	210.00/1,000	CMD95-21SRC/TR10

* For Tape & Reel Part No., change CT to TR.

Fig. 1

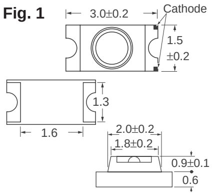


Fig. 2

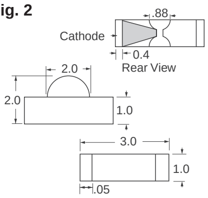


Fig. 3 — 1206

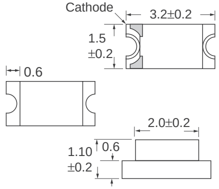


Fig. 4

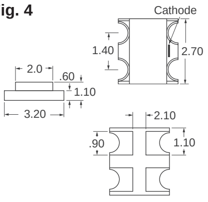


Fig. 5 — 0805

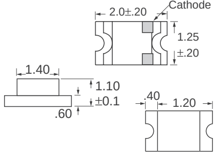


Fig. 6 — 0805

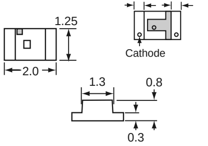


Fig. 7

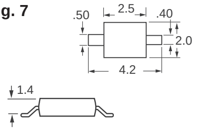
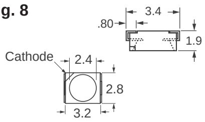


Fig. 8



†Anode mark on L628111-ND

Fig. 9

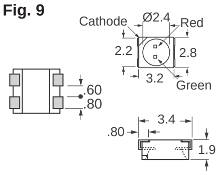


Fig. 10

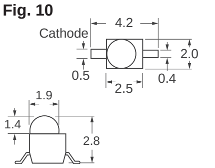


Fig. 11

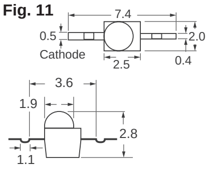


Fig. 12

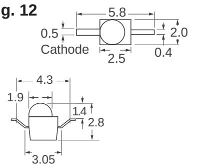


Fig. 13

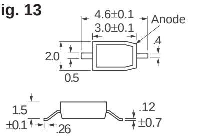


Fig. 14

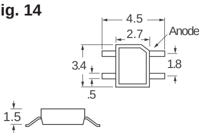


Fig. 15

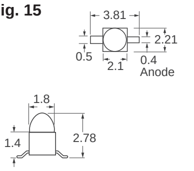


Fig. 16

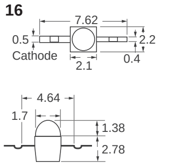
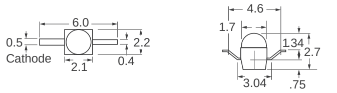
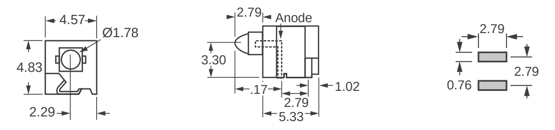


Fig. 17



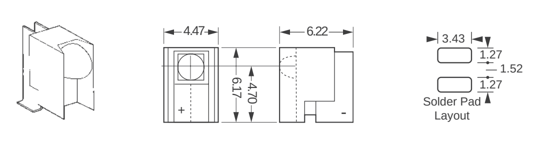
CHICAGO MINIATURE LAMP, INC.
WHERE INNOVATION COMES TO LIGHT

Sub-Miniature Surface Mount LED Assemblies



Color	Typ. mcd	Forward Voltage Typ. (V)	mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel 750	Chicago Miniature Part No.
Red	5.0	2.2	10	L60041CT-ND	1.37	1.17	.98	L60041TR-ND	438.75	6255T1
Green	4.0	2.3	10	L60045CT-ND	1.37	1.17	.98	L60045TR-ND	438.75	6255T5
Yellow	3.8	2.2	10	L60047CT-ND	1.37	1.17	.98	L60047TR-ND	438.75	6255T7
Red	5.0	5.0	9.6	L60061CT-ND	1.51	1.29	1.08	L60061TR-ND	483.75	6255T1-5V
Amber	5.0	5.0	10	L60063CT-ND	1.51	1.29	1.08	L60063TR-ND	483.75	6255T3-5V
Green	5.0	5.0	10	L60065CT-ND	1.51	1.29	1.08	L60065TR-ND	483.75	6255T5-5V
Red	0.5	1.8	2.0	L60051CT-ND	1.58	1.35	1.13	L60051TR-ND	506.25	6255T1LC
Green	1.2	1.8	2.0	L60055CT-ND	1.58	1.35	1.13	L60055TR-ND	506.25	6255T5LC
Yellow	0.5	1.9	2.0	L60057CT-ND	1.58	1.35	1.13	L60057TR-ND	506.25	6255T7LC
Red	2.0	5.0	3.5	L60071CT-ND	1.58	1.35	1.13	L60071TR-ND	506.25	6255T1-5VLC
Amber	4.0	5.0	3.5	L60073CT-ND	2.10	1.80	1.50	L60073TR-ND	675.00	6255T3-5VLC
Green	2.0	5.0	3.5	L60075CT-ND	1.58	1.35	1.13	L60075TR-ND	506.25	6255T5-5VLC

Right Angle Surface Mount LEDs

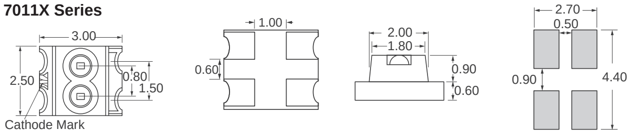


Color	Wave-length	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing* 1,000	Chicago Miniature Part No.
Red	—	10	2.2	L60001CT-ND	1.44	1.23	1.03	615.00	6200T1
Amber	—	10	2.0	L60003CT-ND	1.44	1.23	1.03	615.00	6200T3
Green	—	10	2.3	L60005CT-ND	1.44	1.23	1.03	615.00	6200T5
Yellow	—	10	2.2	L60007CT-ND	1.44	1.23	1.03	615.00	6200T7
Red	635	2	1.8	L60101CT-ND	1.65	1.41	1.18	705.00	6200T1LC
Green	565	2	1.8	L60105CT-ND	1.65	1.41	1.18	705.00	6200T5LC
Yellow	583	2	1.9	L60107CT-ND	1.65	1.41	1.18	705.00	6200T7LC
Red	635	9.6	5.0	L60201CT-ND	1.75	1.50	1.25	750.00	6202T1-5V
Amber	583	10	5.0	L60203CT-ND	1.75	1.50	1.25	750.00	6202T3-5V
Green	565	10	5.0	L60205CT-ND	1.75	1.50	1.25	750.00	6202T5-5V
Red	635	3.5	5.0	L60301CT-ND	1.75	1.50	1.25	750.00	6202T1-5VLC

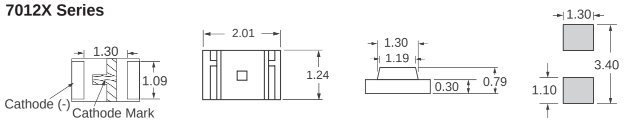
* For Tape & Reel Part No., change CT to TR.

Surface Mount LEDs

7011X Series



7012X Series



Source (Dice)	Luminous Intensity Typ. (mcd)	Forward Voltage Typ. (V)	mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing	Chicago Miniature Part No.
Red/Green	17.0	1.7	20	L61015CT-ND	1.02	.87	.73	L61015TR-ND	1087.50/2500	7011X1/5
Green/Yellow	7.5	2.1	20	L61057CT-ND	1.02	.87	.73	L61057TR-ND	1087.50/2500	7011X5/7
Red	11.7	1.7	20	L61101CT-ND	.49	.42	.35	L61101TR-ND	840.00/4000	7012X1
Green	6.4	2.1	20	L61105CT-ND	.49	.42	.35	L61105TR-ND	840.00/4000	7012X5
Yellow/Green	11.7	2.1	20	L61107CT-ND	.49	.42	.35	L61107TR-ND	840.00/4000	7012X7
Yellow	3.7	2.2	20	L61113CT-ND *NEW!*	.49	.42	.35	L61113TR-ND *NEW!*	840.00/4000	7012X13

SHARP MICROELECTRONICS OF THE AMERICAS

LEDs

Fig. 1

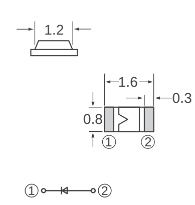


Fig. 2

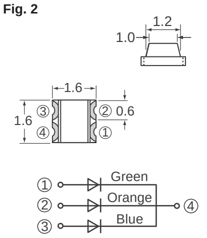


Fig. 3

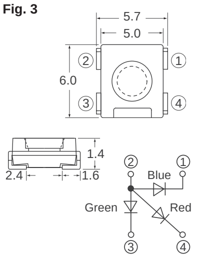


Fig. 4

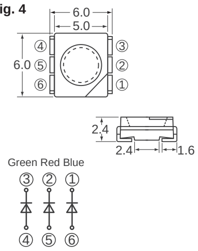


Fig. 5

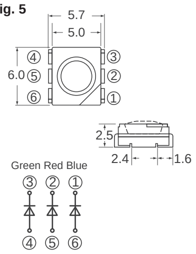


Fig. 6

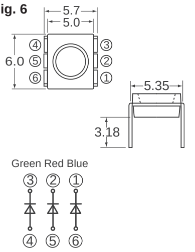


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv Typ. (mcd) @ (mA)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel* Size	Pricing	Sharp Part No.
1	1608 Size	Amber	Clear	591	2.0	20	19	150°	425-1813-1-ND	.30	.17	.14	6,000	79.75/M	GM1JV35200AE
		Sunset-Orange	Clear	609	2.0	20	19	150°	425-1812-1-ND	.30	.17	.14	6,000	79.75/M	GM1JS35200AE
		Red	Clear	639	2.0	20	15	150°	425-1810-1-ND	.30	.17	.14	6,000	79.75/M	GM1JR35200AE
		Orange	Clear	627	2.0	20	19	150°	425-1811-1-ND	.30	.17	.14	6,000	79.75/M	GM1JJ35200AE
		Yellow-Green	Clear	575	2.0	20	13	150°	425-1814-1-ND	.30	.17	.14	6,000	79.75/M	GM1JE35200AE
2	1.6 x 1.6	Blue/Green/Orange	Clear	470/528/627	3.2/3.2/2.1	20	30/92/100	—	425-1815-1-ND	7.43	4.05	3.38	4,000	1957.50/M	GM1WA80350A
3	5.7 x 6	Red/Green/Blue	Clear	647/518/468	2.0/4.5/4.5	50	300/500/150	—	425-1816-1-ND	5.63	4.17	3.49	800	2430.00	GM5WA02200A
4	6 x 6	Blue/Green/Red	Clear	469/520/628	4.2/4.2/2.3	50	1450	120°	425-1817-1-ND	6.25	4.63	3.88	800	2700.00	GM5WA06250A
5	5.7 x 6	Red/Green/Blue	Clear	617/520/469	2.3/4.4/4.6	50	1725	—	425-1818-1-ND	6.50	4.81	4.03	800	2808.00	GM5WA06260A
6	6-Dip	Blue/Green/Red	Clear	466/519/639	4.5/4.5/2.0	50	150/500/300	120°	425-1819-5-ND	5.63	4.17	3.49	—	—	GM5WA06200Z

* For Tape & Reel Part No., change -1-ND to -2-ND.

Panasonic

Surface Mount LEDs

The chip LEDs have thin, compact features available for surface mount technology. It makes super brightness, has a wide viewing angle and is suitable for compact and multi-function equipment.

Features: • Compact and thin package • Super bright and high reliability • Surface mount technology available • Wide product range **Cleaning:** • Avoid using organic solvents. The surface of the LED may change when organic solvents such as trichloroethylene and acetone come in contact with the surface of the LED.

Fig. 1 — 0402 Leadless

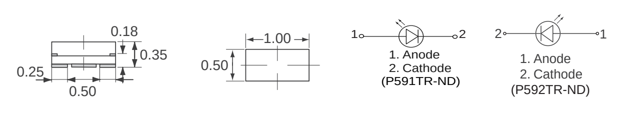


Fig. 2 — 0603 Leadless-SS Type

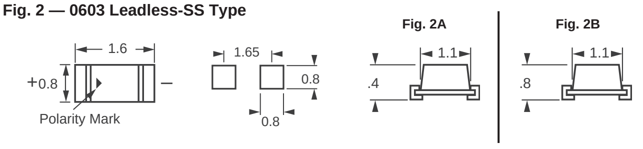


Fig. 3 — 0603 Leadless-TSS Type

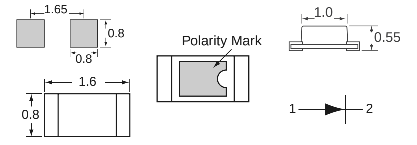


Fig. 4 — J-Lead-S Type

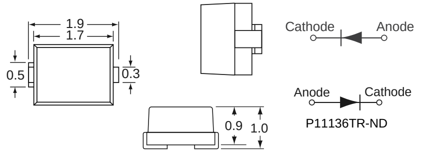
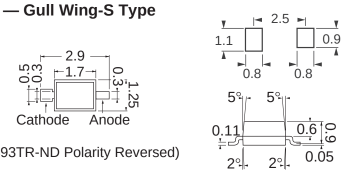


Fig. 5 — Gull Wing-S Type



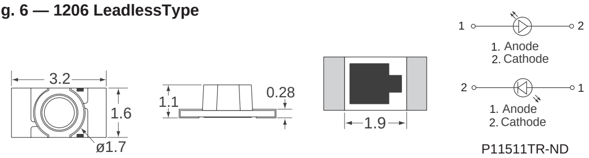
(P493TR-ND Polarity Reversed)

Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings (mW) PD	(mA) IF	(V) VR	(°C) Topr	Io (mcd) Typ.	(mcd) Min.	(mA) IF	VF(V) Typ.	VF(V) Max.	λP Typ.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
0402 Leadless																					
1	Yellow Green	Y/G Diffused	GaP	40	15	4	-30~+85	3.7	2	10	2.03	2.6	565	P591CT-ND	.75	.69	.63	P591TR-ND	5,000	197.00/M	LNJ319G9TRA
	High Bright Red	Red Diffused	GaAlAs	40	15	3	-30~+85	4.2	2.2	10	1.72	2.5	655	P592CT-ND	.75	.69	.63	P592TR-ND	5,000	197.00/M	LNJ219R9ARA
0603 Leadless Height=0.4mm																					
2A	High Bright Red	Red Diffused	GaAlAs	40	15	3	-30~+85	6.7	2.2	15	1.72	2.5	655	P11461CT-ND	.38	.34	.31	P11461TR-ND	5,000	113.00/M	LNJ214R8ARA
	Orange	Red Diffused	GaAsP	40	15	3	-30~+85	1	0.5	15	1.93	2.6	630	P11462CT-ND	.35	.32	.29	P11462TR-ND	5,000	104.00/M	LNJ814R8DRA
	Soft Orange	Yellow Diffused	GaAsP	40	15	3	-30~+85	1	0.5	15	1.93	2.6	610	P11463CT-ND	.35	.32	.29	P11463TR-ND	5,000	104.00/M	LNJ814K8SRA
	Amber	Yellow Diffused	GaAsp	40	15	3	-30~+85	1.5	0.6	15	2	2.6	590	P11464CT-ND	.35	.32	.29	P11464TR-ND	5,000	104.00/M	LNJ414K8YRA
	Yellow Green	Green Diffused	GaP	40	15	4	-30~+85	5	1.8	15	2.03	2.6	565	P11465CT-ND	.32	.29	.26	P11465TR-ND	5,000	95.00/M	LNJ314G8TRA
Ultra Brightness InGaAlP LED																					
2A	Ultra Bright Red	Red Diffused	InGaAlP	40	15	4	-30~+85	15	8	15	1.92	2.5	645	P11466CT-ND	.56	.53	.48	P11466TR-ND	5,000	208.00/M	LNJ214R82RA
	Orange	Red Diffused	InGaAlP	40	15	4	-30~+85	32	17	15	2.03	2.5	630	P11467CT-ND	.56	.53	.48	P11467TR-ND	5,000	208.00/M	LNJ814R83RA
	Orange	Red Diffused	InGaAlP	40	15	4	-30~+85	30	16	15	1.95	2.5	620	P11468CT-ND	.56	.53	.48	P11468TR-ND	5,000	208.00/M	LNJ814R88RA
	Soft Orange	Yellow Diffused	InGaAlP	40	15	4	-30~+85	21	8.7	15	1.95	2.5	615	P11469CT-ND	.56	.53	.48	P11469TR-ND	5,000	208.00/M	LNJ814K87RA
	Amber	Yellow Diffused	InGaAlP	40	15	4	-30~+85	26	14	15	2.1	2.5	595	P11470CT-ND	.56	.53	.48	P11470TR-ND	5,000	208.00/M	LNJ414K84RA
	Yellow Green	Green Diffused	InGaAlP	40	15	4	-30~+85	12	6.4	15	2.03	2.5	575	P11471CT-ND	.56	.53	.48	P11471TR-ND	5,000	208.00/M	LNJ314G83RA
0603 Leadless Height=0.55mm																					
3	High Bright Red	Red Diffused	GaAlAs	50	20	3	-30~+85	6.7	2.2	10	1.72	2.5	655	P11133CT-ND	.33	.31	.28	P11133TR-ND	5,000	104.00/M	LNJ212R8ARA
	Orange	Red Diffused	GaAsP	50	20	3	-30~+85	1	0.4	20	1.93	2.6	630	P11594CT-ND	.32	.29	.26	P11594TR-ND	5,000	95.00/M	LNJ812R8DRA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30~+85	1	0.5	20	1.93	2.6	610	P11472CT-ND	.32	.29	.26	P11472TR-ND	5,000	95.00/M	LNJ812K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30~+85	1.5	0.6	10	2	2.6	590	P11135CT-ND	.33	.31	.28	P11135TR-ND	5,000	95.00/M	LNJ412K8YRA
	Yellow Green	Green Diffused	Gap	50	20	4	-30~+85	5	1.8	10	2.03	2.6	565	P11134CT-ND	.33	.31	.28	P11134TR-ND	5,000	86.00/M	LNJ312G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-30~+85	3	1.8	10	1.9	2.4	565	P11473CT-ND	.29	.26	.24	P11473TR-ND	5,000	86.00/M	LNJ312G8LRA
	Green	Green Diffused	GaP	60	20	4	-30~+85	2.1	1.1	20	2.1	2.6	560	P11474CT-ND	.29	.26	.24	P11474TR-ND	5,000	86.00/M	LNJ312G84RA
Ultra Brightness InGaAlP / GaN LED																					
3	Red	Red Diffused	InGaAlP	55	20	4	-30~+85	15	8	20	1.92	2.5	645	P11475CT-ND	.52	.49	.44	P11475TR-ND	5,000	190.00/M	LNJ212R82RA
	Orange	Red Diffused	InGaAlP	55	20	4	-30~+85	32	17	20	2.03	2.5	630	P11476CT-ND	.52	.49	.44	P11476TR-ND	5,000	190.00/M	LNJ812R83RA
	Orange	Red Diffused	InGaAlP	55	20	4	-30~+85	30	16	20	1.95	2.5	620	P11477CT-ND	.52	.49	.44	P11477TR-ND	5,000	190.00/M	LNJ812R88RA
	Soft Orange	Yellow Diffused	InGaAlP	55	20	4	-30~+85	21	7	20	1.95	2.5	615	P11478CT-ND	.52	.49	.44	P11478TR-ND	5,000	190.00/M	LNJ812K87RA
	Amber	Yellow Diffused	InGaAlP	55	20	4	-30~+85	26	14	20	2.1	2.5	595	P11479CT-ND	.52	.49	.44	P11479TR-ND	5,000	190.00/M	LNJ412K84RA
	Yellow Green	Green Diffused	InGaAlP	55	20	4	-30~+85	12	6.4	20	2.03	2.5	575	P11480CT-ND	.52	.49	.44	P11480TR-ND	5,000	190.00/M	LNJ312G83RA
	Pure Green	White Diffused	GaN	40	10	5	-25~+85	34	10.3	10	3	3.7	525	P11481CT-ND	4.15	3.90	3.64	P11481TR-ND	5,000	1724.00/M	LNJ612W8WRA
	Blue	White Diffused	GaN	40	10	5	-25~+85	8.5	3.2	10	3.2	3.7	470	P11482CT-ND	4.15	3.90	3.64	P11482TR-ND	2,000	1724.00/M	LNJ912W8BRA
	Blue	White Diffused	GaN	65	20	2	-30~+85	30	15	5	3	3.7	470	P11483CT-ND	4.15	3.90	3.64	P11483TR-ND	5,000	1724.00/M	LNJ920W9BRAS
	White Light	White Diffused	GaN	40	10	5	-30~+85	76	47	10	3.2	3.7	—	P12023CT-ND	4.91	4.58	4.15	P12023TR-ND	5,000	1809.00/M	LNJ012X8BRA
0603 Leadless Height=0.8mm																					
2B	High Bright Red	Red Diffused	GaAlAs	50	20	3	-25~+85	6.7	2.2	10	1.72	2.5	660	P524CT-ND	.33	.31	.28	P524TR-ND	4,000	114.00/M	LNJ208R8ARA
	Orange	Orange Diffused	GaAsP	30	10	3	-25~+85	1.1	0.4	5	1.8	2.4	630	P523CT-ND*	.33	.31	.28	P523TR-ND	4,000	104.00/M	LNJ808R8ERA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-25~+85	1	0.4	10	1.93	2.6	610	P11132CT-ND	.33	.31	.28	P11132TR-ND	4,000	104.00/M	LNJ808K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-25~+85	1.5	0.6	10	2	2.6	590	P11129CT-ND	.33	.31	.28	P11129TR-ND	4,000	104.00/M	LNJ408K8YRA
	Amber	Yellow Diffused	GaAsP	30	10	4	-25~+85	0.9	0.4	5	1.9	2.4	590	P522CT-ND*	.33	.31	.28	P522TR-ND	4,000	104.00/M	LNJ408K8ZRA
	Yellow Green	Green Diffused	GaP	50	20	4	-25~+85	5	1.8	10	2.03	2.6	565	P525CT-ND	.33	.31	.28	P525TR-ND	4,000	95.00/M	LNJ308G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-25~+85	2.1	0.7	5	1.9	2.4	565	P521CT-ND*	.33	.31	.28	P521TR-ND	4,000	95.00/M	LNJ308G8LRA
	Green	Green Diffused	GaP	60	20	4	-25~+85	2.1	1.1	20	2.1	2.6	560	P11484CT-ND	.29	.26	.24	P11484TR-ND	4,000	95.00/M	LNJ308G84RA
	Pure Green	Green Diffused	GaP	50	20	4	-25~+85	0.7	0.25	20	2.03	2.6	555	P11485CT-ND	.35	.32	.29	P11485TR-ND	4,000	114.00/M	LNJ308G8PRA
Ultra Brightness InGaAlP LED																					
2B	Ultra Bright Red	Red Diffused	InGaAlP	55	20	4	-25~+85	15	8	20	1.92	2.5	645	P11486CT-ND	.52	.49	.44	P11486TR-ND	4,000	209.00/M	LNJ208R82RA
	Orange	Red Diffused	InGaAlP	55	20	4	-25~+85	32	17	20	2.03	2.5	630	P11487CT-ND	.52	.49	.44	P11487TR-ND	4,000	209.00/M	LNJ808R83RA
	Orange	Red Diffused	InGaAlP	50	20	4	-25~+85	6.5	2.5	10	1.9	2.3	620	P11131CT-ND	.53	.49	.45	P11131TR-ND	4,000	209.00/M	LNJ808R88RA
	Soft Orange	Yellow Diffused	InGaAlP	55	20	4	-25~+85	21	7	20	1.95	2.5	615	P11488CT-ND	.52	.49	.44	P11488TR-ND	4,000	209.00/M	LNJ808K87RA
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25~+85	10.5	4	10	2	2.3	595	P11130CT-ND	.53	.49	.45	P11130TR-ND	4,000	209.00/M	LNJ408K84RA
	Yellow Green	Green Diffused	InGaAlP	55	20	4	-25~+85	12	6.4	20	2.03	2.5	575	P11489CT-ND	.52	.49	.44	P11489TR-ND	4,000	209.00/M	LNJ308G83RA
0805 J- Lead S-J Type 2mm pitch Taping																					
4	Red	Red Diffused	GaP	60	20	4	-25~+85	0.4	0.15	20	2.03	2.6	700	P11490CT-ND	.33	.30	.27	P11490TR-ND	6,000	99.00/M	LNJ206R5RRX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25~+85	5	1.7	10	1.72	2.5	660	P11136CT-ND	.33	.31	.28	P11136TR-ND	6,000	113.00/M	LNJ206R5ARA
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~+85	0.8	0.3	20	1.93	2.6	610	P11491CT-ND	.35	.32	.29	P11491TR-ND	6,000	104.00/M	LNJ806K5SRX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25~+85	1	0.4	20	2	2.6	590	P11492CT-ND	.35	.32	.29	P11492TR-ND	6,000	104.00/M	LNJ406K5YRX
	Yellow Green	Green Diffused	GaP	60	20	4	-25~+85	2.6	0.9	10	2.03	2.6	565	P11137CT-ND	.33	.31	.28	P11137TR-ND	6,000	99.00/M	LNJ306G5URA
	Pure Green	Green Diffused	GaP	60	20	4	-25~+85	0.65	0.25	20	2.03	2.6	555	P11493CT-ND	.38	.34	.31	P11493TR-ND	6,000	113.00/M	LNJ306G5PRX
Ultra Brightness InGaAlP LED																					
4	Orange	Red Diffused	InGaAlP	50	20	4	-25~+85	5	2	20	1.9	2.3	620	P11494CT-ND	.56	.53	.48	P11494TR-ND	6,000	208.00/M	LNJ806R58RX
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25~+85	8.5	3.5	20	2	2.3	595	P11495CT-ND	.56	.53	.48	P11495TR-ND	6,000	208.00/M	LNJ406K54RX

* Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type

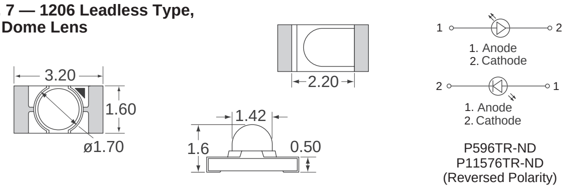
(Continued)

Fig. 6 — 1206 LeadlessType



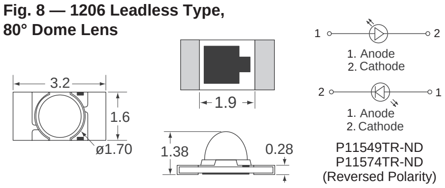
P11511TR-ND
P11544TR-ND
(Reversed Polarity)

Fig. 7 — 1206 Leadless Type, 30° Dome Lens



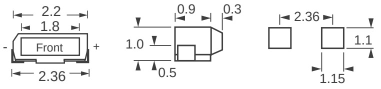
P596TR-ND
P11576TR-ND
(Reversed Polarity)

Fig. 8 — 1206 Leadless Type, 80° Dome Lens



P11549TR-ND
P11574TR-ND
(Reversed Polarity)

Fig. 9 — Leadless-Side View



(P11139TR-ND Polarity Reversed)

Fig. 10 — Gull Wing-GW Type

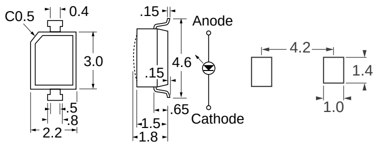


Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings (mW)	(mA)	(V)	(°C)	Io (mcd)	(mcd)	(mA)	VF(V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel		Panasonic
				PD	IF	VR	Topr	Typ.	Min.	IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Size	Pricing	Part No.
0805 J- Lead S-J Type 4mm pitch Taping																					
4	Red	Red Diffused	GaP	60	20	4	-25~+85	0.4	0.15	20	2.03	2.6	700	P11496CT-ND	.33	.30	.27	P11496TR-ND	3,000	108.00/M	LNJ206R5RUX
	High Bright Red	Red Diffused	GaAIAs	60	20	3	-25~+85	5	1.7	20	1.72	2.5	660	P11497CT-ND	.38	.34	.31	P11497TR-ND	3,000	124.00/M	LNJ206R5AUX
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~+85	0.8	0.3	20	1.93	2.6	610	P11498CT-ND	.35	.32	.29	P11498TR-ND	3,000	114.00/M	LNJ806K5SUX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25~+85	1	0.4	20	2	2.6	590	P11499CT-ND	.35	.32	.29	P11499TR-ND	3,000	114.00/M	LNJ406K5YUX
	Yellow Green	Green Diffused	GaP	60	20	4	-25~+85	3.5	1.35	20	2.03	2.6	565	P11500CT-ND	.33	.30	.27	P11500TR-ND	3,000	108.00/M	LNJ306G5UUX
	Pure Green	Green Diffused	GaP	60	20	4	-25~+85	0.65	0.25	20	2.03	2.6	555	P11501CT-ND	.38	.34	.31	P11501TR-ND	3,000	124.00/M	LNJ306G5PUX
Ultra Brightness InGaAIP / GaN LED																					
4	Orange	Red Diffused	InGaAIP	50	20	4	-25~+85	5	2	20	1.9	2.3	620	P11502CT-ND	.56	.53	.48	P11502TR-ND	3,000	229.00/M	LNJ806R58UX
	Amber	Yellow Diffused	InGaAIP	50	20	4	-25~+85	8.5	3.5	20	2	2.3	595	P11503CT-ND	.56	.53	.48	P11503TR-ND	3,000	229.00/M	LNJ406K54UX
	Blue	White Diffused	GaN	40	10	5	-25~+85	5.5	2	10	3.2	3.7	470	P11504CT-ND	4.15	3.90	3.64	P11504TR-ND	3,000	1895.00/M	LNJ906W5BUX
0805 Gull Wing S-GW Type 2mm pitch Taping																					
5	Red	Red Diffused	GaP	60	20	4	-25~+85	0.4	0.15	10	2.03	2.6	700	P490CT-ND	—	.31	.28	P490TR-ND	6,000	99.00/M	LN1271RTR
	High Bright Red	Red Diffused	GaAIAs	60	20	3	-25~+85	5	1.7	10	1.72	2.5	660	P493CT-ND†	—	.41	.37	P493TR-ND	6,000	113.00/M	LN1271RALTR
	Orange	Yellow Diffused	GaAsP	30	10	3	-30~+85	1	0.4	5	1.8	2.4	630	P518CT-ND*	.33	.31	.28	P518TR-ND	6,000	119.00/M	LN1871SRTR
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~+85	0.8	0.3	10	1.93	2.6	610	P492CT-ND	—	.31	.29	P492TR-ND	6,000	104.00/M	LN1871Y5TR
	Amber	Yellow Diffused	GaAsP	60	20	4	-25~+85	1	0.4	10	2	2.6	590	P11125CT-ND	.36	.33	.30	P11125TR-ND	6,000	104.00/M	LN1471YTR
	Amber	Yellow Diffused	GaAsP	30	10	4	-30~+85	1	0.4	5	1.9	2.4	590	P517CT-ND*	.33	.31	.28	P517TR-ND	6,000	119.00/M	LN1471SYTR
	Yellow Green	Green Diffused	GaP	60	20	4	-25~+85	2.6	0.9	10	2.03	2.6	565	P491CT-ND	—	.31	.28	P491TR-ND	6,000	99.00/M	LN1371GTR
	Yellow Green	Green Diffused	GaP	30	10	4	-30~+85	2	0.7	5	1.9	2.4	565	P516CT-ND*	.33	.31	.28	P516TR-ND	6,000	113.00/M	LN1371SGTR
	High Bright Yellow Green	Green Diffused	GaP	60	20	4	-25~+85	5	3	10	2.03	2.6	565	P494CT-ND	—	.33	.30	P494TR-ND	6,000	103.00/M	LNJ306G5TR02
0805 Gull Wing S-GW Type 4mm pitch Taping																					
5	High Bright Red	Red Diffused	GaAIAs	60	20	3	-25~+85	5	1.7	20	1.72	2.5	660	P11505CT-ND	.38	.34	.31	P11505TR-ND	3,000	124.00/M	LN1271RALTRP
	Orange	Red Diffused	GaAsP	30	10	3	-30~+85	1	0.4	10	1.8	2.4	630	P11506CT-ND	.37	.33	.30	P11506TR-ND	3,000	119.00/M	LN1871SRTRP
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~+85	0.8	0.3	20	1.93	2.6	610	P11507CT-ND	.35	.32	.29	P11507TR-ND	3,000	114.00/M	LN1871Y5TRP
	Amber	Yellow Diffused	GaAsP	30	10	4	-30~+85	1	0.4	10	1.9	2.4	590	P11508CT-ND	.35	.32	.29	P11508TR-ND	3,000	114.00/M	LN1471SYTRP
	Yellow Green	Green Diffused	GaP	60	20	4	-25~+85	2.6	0.9	20	2.03	2.6	565	P11509CT-ND	.33	.30	.27	P11509TR-ND	3,000	108.00/M	LN1371GTRP
	Yellow Green	Green Diffused	GaP	30	10	4	-25~+85	2	0.7	10	1.9	2.4	565	P11510CT-ND	.35	.32	.28	P11510TR-ND	3,000	113.00/M	LN1371SGTRP
	High Bright Yellow Green	Green Diffused	GaP	60	20	4	-25~+85	5	3	20	2.03	2.6	565	P11595CT-ND	.35	.32	.28	P11595TR-ND	3,000	113.00/M	LNJ306G5TUWQ
1206 Leadless with Flat Lens Type																					
6	High Bright Red	Red Diffused	GaAIAs	60	20	3	-30~+85	7	2.3	10	1.72	2.5	660	P11141CT-ND	.33	.31	.28	P11141TR-ND	3,000	138.00/M	LNJ211R8ARA
	Orange	Red Diffused	GaAsP	60	20	3	-30~+85	1.8	0.7	20	1.93	2.6	630	P11526CT-ND	.39	.36	.32	P11526TR-ND	3,000	128.00/M	LNJ811R8DRA
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-30~+85	1	0.5	20	1.93	2.6	610	P11527CT-ND	.39	.36	.32	P11527TR-ND	3,000	128.00/M	LNJ811K8SRA
	Amber	Yellow Diffused	GaAsP	60	20	4	-30~+85	2.2	0.75	20	2	2.6	590	P11528CT-ND	.39	.36	.32	P11528TR-ND	3,000	128.00/M	LNJ411K8YRA
	Yellow Green	Green Diffused	GaP	60	20	4	-30~+85	5.5	1.8	20	2.03	2.6	565	P11529CT-ND	.36	.33	.30	P11529TR-ND	3,000	118.00/M	LNJ311G8TRA
	Green	Green Diffused	GaP	60	20	4	-30~+85	2.1	1.1	20	2.1	2.6	560	P11530CT-ND	.36	.33	.30	P11530TR-ND	3,000	118.00/M	LNJ311G84RA
	Pure Green	Green Diffused	GaP	60	20	4	-30~+85	0.7	0.25	20	2.03	2.6	555	P11531CT-ND	.42	.38	.35	P11531TR-ND	3,000	138.00/M	LNJ311G8PRA
	High Bright Red	Red Diffused	GaAIAs	60	20	3	-30~+85	7	2.3	10	1.72	2.5	660	P541CT-ND†	.33	.31	.28	P541TR-ND†	3,000	138.00/M	LNJ211R8ARU
	Orange	Red Diffused	GaAsP	60	20	3	-30~+85	1.8	0.7	20	1.93	2.6	630	P11540CT-ND†	.39	.36	.32	P11540TR-ND†	3,000	128.00/M	LNJ811R8DRU
	Amber	Yellow Diffused	GaAsP	60	20	4	-30~+85	2.2	0.75	20	2	2.6	590	P11596CT-ND†	.39	.36	.32	P11596TR-ND†	3,000	128.00/M	LNJ411K8YRU
	Yellow Green	Green Diffused	GaP	60	20	4	-30~+85	5.5	1.8	10	2.03	2.6	565	P540CT-ND†	.33	.31	.28	P540TR-ND†	3,000	118.00/M	LNJ311G8TRU
Ultra Brightness InGaAIP / GaN LED																					
6	Ultra Bright Red	Red Diffused	InGaAIP	55	20	4	-30~+85	15	8	20	1.92	2.5	645	P11532CT-ND	.63	.59	.54	P11532TR-ND	3,000	256.00/M	LNJ211R82RA
	Orange	Red Diffused	InGaAIP	55	20	4	-30~+85	32	17	20	2.03	2.5	630	P11533CT-ND	.63	.59	.54	P11533TR-ND	3,000	256.00/M	LNJ811R83RA
	Orange	Red Diffused	InGaAIP	50	20	4	-30~+85	6.5	3.5	20	1.9	2.5	620	P11534CT-ND	.63	.59	.54	P11534TR-ND	3,000	256.00/M	LNJ811R88RA
	Soft Orange	Red Diffused	InGaAIP	55	20	4	-30~+85	21	10	10	1.95	2.5	615	P11535CT-ND	.63	.59	.54	P11535TR-ND	3,000	256.00/M	LNJ811K87RA
	Amber	Yellow Diffused	InGaAIP	55	20	4	-30~+85	17	9	20	2	2.5	595	P11536CT-ND	.63	.59	.54	P11536TR-ND	3,000	256.00/M	LNJ411K84RA
	Yellow Green	Green Diffused	InGaAIP	55	20	4	-30~+85	12	6.4	20	2.03	2.5	575	P11537CT-ND	.63	.59	.54	P11537TR-ND	3,000	256.00/M	LNJ311G83RA
	Blue	White Diffused	GaN	40	10	5	-25~+85	8.5	4.5	10	3.2	3.7	470	P11539CT-ND	4.15	3.90	3.64	P11539TR-ND	3,000	1895.00/M	LNJ911W8BRA
	Pure Green	White Diffused	GaN	40	10	5	-25~+85	34	14.4	10	3	3.7	525	P11538CT-ND	4.15	3.90	3.64	P11538TR-ND	3,000	1895.00/M	LNJ611W8WRA
	Amber	Yellow Diffused	InGaAIP	55	20	4	-30~+85	17	9	20	2	2.5	595	P11541CT-ND†	.63	.59	.54	P11541TR-ND†	3,000	256.00/M	LNJ411K84RU
	Blue	White Diffused	GaN	40	10	5	-25~+85	8.5	4.5	10	3.2	3.7	470	P11543CT-ND†	4.15	3.90	3.64	P11543TR-ND†	3,000	1895.00/M	LNJ911W8BRU
	Pure Green	White Diffused	GaN	40	10	5	-25~+85	34	14.4	10	3	3.7	525	P11542CT-ND†	4.15	3.90	3.64	P11542TR-ND†	3,000	1895.00/M	LNJ611W8WRU
1206 Leadless with Micro Lens Type																					
6	High Bright Red	Clear Non Diffused	GaAIAs	60	20	3	-30~+85	10.5	4	20	1.72	2.5	660	P11511CT-ND	.42	.38	.35	P11511TR-ND	3,000	138.00/M	LNJ216C8ARA
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30~+85	2.1	1.1	20	1.93	2.6	630	P11512CT-ND	.39	.36	.32	P11512TR-ND	3,000	128.00/M	LNJ816C8DRA
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30~+85	1.5	0.8	20	1.93	2.6	610	P11513CT-ND	.39	.36	.32	P11513TR-ND	3,000	128.00/M	LNJ816C8SRA
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30~+85	3.3	1.2	20	2	2.6	590	P11514CT-ND	.39	.36	.32	P11514TR-ND	3,000	128.00/M	LNJ416Q8YRA
	Green	Clear Non Diffused	GaP	60	20	4	-30~+85	8.8	3.3	20	2.03	2.6	565	P11515CT-ND	.36	.33	.30	P11515TR-ND	3,000	118.00/M	LNJ316C8TRA
	Green	Clear Non Diffused	GaP	60	20	4	-30~+85	3.2	1.6	20	2.1	2.6	560	P11516CT-ND	.36	.33	.30	P11516TR-ND	3,000	118.00/M	LNJ316C84RA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30~+85	1	0.4	20	2.03	2.6	555	P11517CT-ND	.42	.38	.35	P11517TR-ND	3,000	138.00/M	LNJ316C8PRA
	Red	Clear Non Diffused	GaAIAs	60	20	3	-30~+85	10.5	4	20	1.72	2.5	660	P11544CT-ND†	.42	.38	.35	P11544TR-ND†	3,000	138.00/M	LNJ216C8ARU
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30~+85	2.1	1.1	20	1.93	2.6	630	P11545CT-ND†	.39	.36	.32	P11545TR-ND†	3,000	128.00/M	LNJ816C8DRU
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30~+85	3.3	1.2	20	2	2.6	590	P11546CT-ND†	.39	.36	.32	P11546TR-ND†	3,000	128.00/M	LNJ416Q8YRU
	Green	Clear Non Diffused	GaP	60	20	4	-30~+85	8.8	3.3	20	2.03	2.6	565	P11547CT-ND†	.36	.33	.30	P11547TR-ND†	3,000	118.00/M	LNJ316C8TRU

* Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type

(Continued)

Fig. 11 — J-Lead-S Type

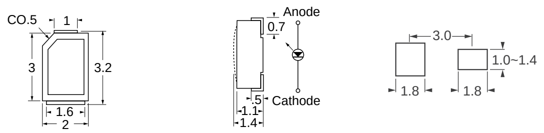


Fig. 12 — TSS Bi-Color Type

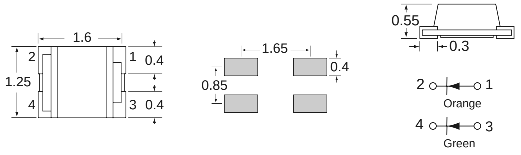


Fig. 13 — Gull Wing-S Type (Bi-Color)

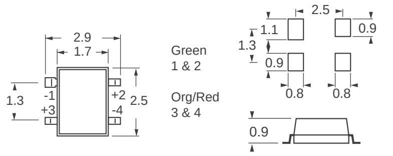


Fig. 14 — Gull Wing-GW Type (Bi-Color)

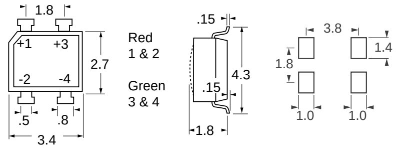


Fig. 15 — Dome Lens (Bi-Color)

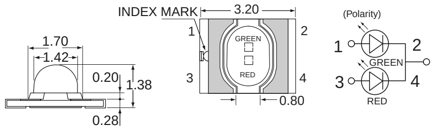


Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings (mW) PD	Absolute Max. Ratings (mA) IF	Absolute Max. Ratings (V) VR	Absolute Max. Ratings (°C) Topr	Io (mcd) Typ.	(mcd) Min.	(mA) IF	VF(V) Typ.	VF(V) Max.	λP Typ.	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
Ultra Brightness InGaAlP / GaN LED																					
6	Red	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	24	12.8	20	1.92	2.5	645	P11518CT-ND	.63	.59	.54	P11518TR-ND	3,000	256.00/M	LNJ216C82RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	48	25	20	2.03	2.5	630	P11519CT-ND	.63	.59	.54	P11519TR-ND	3,000	256.00/M	LNJ816C83RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	9.8	5.2	20	1.9	2.5	620	P11520CT-ND	.63	.59	.54	P11520TR-ND	3,000	256.00/M	LNJ816C88RA
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	30	16	20	1.95	2.5	615	P11521CT-ND	.63	.59	.54	P11521TR-ND	3,000	256.00/M	LNJ816C87RA
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	26	13.8	20	2	2.5	595	P11522CT-ND	.63	.59	.54	P11522TR-ND	3,000	256.00/M	LNJ416C84RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	22	11	20	2.03	2.5	575	P11523CT-ND	.63	.59	.54	P11523TR-ND	3,000	256.00/M	LNJ316C83RA
	Blue	Clear Non Diffused	GaN	40	10	5	-25~+85	12.8	6.8	10	3.2	3.7	470	P11525CT-ND	4.15	3.90	3.64	P11525TR-ND	3,000	1895.00/M	LNJ916C8BRA
	Pure Green	Clear Non Diffused	GaN	40	10	5	-25~+85	51	27.2	10	3	3.7	525	P11524CT-ND	4.15	3.90	3.64	P11524TR-ND	3,000	1895.00/M	LNJ616C8WRA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	22	11	20	2.03	2.5	575	P11548CT-ND†	.63	.59	.54	P11548TR-ND†	3,000	256.00/M	LNJ316C83RU
1206 Leadless with Dome Lens Type (30 degree)																					
7	High Bright Red	Clear	GaAlAs	60	20	3	-30~+85	32	17	10	1.72	2.5	660	P596CT-ND	.73	.67	.61	P596TR-ND	2,000	231.00/M	LNJ218C8ARA
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30~+85	9	4.5	20	1.93	2.6	630	P11563CT-ND	.50	.47	.43	P11563TR-ND	2,000	202.00/M	LNJ818C8DRA
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30~+85	5	2.7	20	1.93	2.6	610	P11564CT-ND	.50	.47	.43	P11564TR-ND	2,000	202.00/M	LNJ818C8SRA
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30~+85	7	3.7	20	2	2.6	590	P11565CT-ND	.50	.47	.43	P11565TR-ND	2,000	202.00/M	LNJ418Q8YRA
	Yellow Green	Clear	GaP	60	20	4	-30~+85	25	10	10	2.03	2.6	565	P595CT-ND	.73	.67	.61	P595TR-ND	2,000	231.00/M	LNJ318C8TRA
	Green	Clear Non Diffused	GaP	60	20	4	-30~+85	10.5	5.6	20	2.1	2.6	560	P11566CT-ND	.47	.45	.41	P11566TR-ND	2,000	192.00/M	LNJ318C84RA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30~+85	3.5	2	20	2.03	2.6	555	P11567CT-ND	.52	.49	.45	P11567TR-ND	2,000	212.00/M	LNJ318C8PRA
	High Bright Red	Clear Non Diffused	GaAlAs	60	20	3	-30~+85	32	17	20	1.72	2.5	660	P11576CT-ND†	.52	.49	.45	P11576TR-ND†	2,000	212.00/M	LNJ218C8ARU
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30~+85	5	2.7	10	1.03	2.6	610	P11577CT-ND†	.50	.47	.43	P11577TR-ND†	2,000	202.00/M	LNJ818C8SRU
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30~+85	7	3.7	20	2	2.6	590	P11578CT-ND†	.50	.47	.43	P11578TR-ND†	2,000	202.00/M	LNJ418Q8YRU
Ultra Brightness InGaAlP LED																					
7	Ultra Bright Red	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	75	40	20	1.92	2.5	645	P11568CT-ND	1.00	.94	.85	P11568TR-ND	2,000	404.00/M	LNJ218C82RA
	Orange	Non Diffused	InGaAlP	55	20	4	-30~+85	160	85	20	2.03	2.5	630	P11569CT-ND	1.00	.94	.85	P11569TR-ND	2,000	404.00/M	LNJ818C83RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	33	17.6	20	1.9	2.5	620	P11570CT-ND	1.00	.94	.85	P11570TR-ND	2,000	404.00/M	LNJ818C88RA
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	100	56	20	1.95	2.5	615	P11571CT-ND	1.00	.94	.85	P11571TR-ND	2,000	404.00/M	LNJ818C87RA
	Amber	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	85	45	20	2	2.5	595	P11572CT-ND	1.00	.94	.85	P11572TR-ND	2,000	404.00/M	LNJ418C84RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	110	58	20	2.03	2.5	575	P11573CT-ND	1.00	.94	.85	P11573TR-ND	2,000	404.00/M	LNJ318C83RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	110	58	20	2.03	2.5	575	P11579CT-ND†	1.00	.94	.85	P11579TR-ND†	2,000	404.00/M	LNJ318C83RU
1206 Leadless with Dome Lens Type (80 degree)																					
8	High Bright Red	Clear Non Diffused	GaAlAs	60	20	3	-30~+85	14	7.4	20	1.72	2.5	660	P11549CT-ND	.51	.46	.42	P11549TR-ND	2,500	168.00/M	LNJ218C8ARA1
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30~+85	4.5	2.1	20	1.93	2.6	630	P11550CT-ND	.48	.44	.39	P11550TR-ND	2,500	158.00/M	LNJ818C8DRA1
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30~+85	2.5	1.3	20	1.93	2.6	610	P11551CT-ND	.48	.44	.39	P11551TR-ND	2,500	158.00/M	LNJ818C8SRA1
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	3	-30~+85	4.5	2.4	20	2	2.6	610	P11552CT-ND	.48	.44	.39	P11552TR-ND	2,500	158.00/M	LNJ418Q8YRA1
	Yellow Green	Clear Non Diffused	GaP	60	20	4	-30~+85	12	6.4	20	2.03	2.6	565	P11553CT-ND	.45	.41	.37	P11553TR-ND	2,500	148.00/M	LNJ318C8TRA1
	Green	Clear Non Diffused	GaP	60	20	4	-30~+85	5.2	2.8	20	2.1	2.6	560	P11554CT-ND	.45	.41	.37	P11554TR-ND	2,500	148.00/M	LNJ318C84RA1
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30~+85	1.7	0.9	20	2.03	2.6	555	P11555CT-ND	.51	.46	.42	P11555TR-ND	2,500	168.00/M	LNJ318C8PRA1
	High Bright Red	Clear Non Diffused	GaAlAs	60	20	3	-30~+85	14	7.4	20	1.72	2.5	660	P11574CT-ND†	.51	.46	.42	P11574TR-ND†	2,500	168.00/M	LNJ218C8ARU1
	Yellow Green	Clear Non Diffused	GaP	60	20	4	-30~+85	12	6.4	20	2.03	2.6	565	P11575CT-ND†	.45	.41	.37	P11575TR-ND†	2,500	148.00/M	LNJ318C8TRU1
Ultra Brightness InGaAlP / GaN LED																					
8	Ultra Bright Red	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	37	19.7	20	1.92	2.5	645	P11556CT-ND	.78	.73	.66	P11556TR-ND	2,500	315.00/M	LNJ218C82RA1
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	80	42	20	2.03	2.5	630	P11557CT-ND	.78	.73	.66	P11557TR-ND	2,500	315.00/M	LNJ818C83RA1
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	16.3	8.7	20	1.9	2.5	620	P11558CT-ND	.78	.73	.66	P11558TR-ND	2,500	315.00/M	LNJ818C88RA1
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	52.5	28	20	1.95	2.5	615	P11559CT-ND	.78	.73	.66	P11559TR-ND	2,500	315.00/M	LNJ818C87RA1
	Amber	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	42.5	22.7	20	2	2.5	595	P11560CT-ND	.78	.73	.66	P11560TR-ND	2,500	315.00/M	LNJ418C84RA1
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30~+85	30	16	20	2.03	2.5	575	P11561CT-ND	.78	.73	.66	P11561TR-ND	2,500	315.00/M	LNJ318C83RA1
	Pure Green	Clear Non Diffused	GaN	40	10	5	-25~+85	85	45.3	10	3	3.7	525	P11562CT-ND	4.15	3.90	3.64	P11562TR-ND	2,500	1895.00/M	LNJ618C8WRA1
Side Firing LED with Refractive Case																					
9	Red	Clear	GaP	60	20	4	-25~+80	0.7	0.25	10	2.03	2.6	700	P11138CT-ND	.40	.37	.34	P11138TR-ND	3,000	163.00/M	LNJ210C6RRA
	High Bright Red	Clear	GaAlAs	60	20	3	-30~+80	8	2.6	10	1.72	2.5	660	P11139CT-ND	.40	.37	.34	P11139TR-ND	3,000	182.00/M	LNJ210C6ARA
	Orange	Red Clear	GaAsP	60	20	3	-25~+80	2.5	0.8	10	1.93	2.6	630	P519CT-ND	.39	.36	.33	P519TR-ND	3,000	172.00/M	LNJ810L6DRA
	Soft Orange	Red Clear Non Diff.	GaAsP	60	20	3	-25~+85	1.8	0.75	10	1.93	2.6	610	P11580CT-ND	.53	.48	.43	P11580TR-ND	3,000	172.00/M	LNJ810L6SRA
	Amber	Yellow Clear	GaAsP	60	20	3	-25~+80	2.5	0.8	10	2	2.6	590	P11140CT-ND	.40	.37	.34	P11140TR-ND	3,000	172.00/M	LNJ410Q6YRA
	Yellow Green	Clear	GaP	60	20	4	-25~+85	8	3	10	2.03	2.6	565	P520CT-ND	.39	.36	.33	P520TR-ND	3,000	163.00/M	LNJ310M6URA
	Green	Clear Non Diffused	GaP	60	20	4	-25~+85	3.2	1.7	20	2.1	2.6	560	P11581CT-ND	.50	.45	.41	P11581TR-ND	3,000	163.00/M	LNJ310C64RA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-25~+85	1.1	0.6	20	2.03	2.6	555	P11582CT-ND	.56	.50	.45	P11582TR-ND	3,000	182.00/M	LNJ310C6PRA
	White Light	White Diffused	GaN	120	30	5	-30~+85	260	180	20	3.4	3.9	—	P12024CT-ND	5.77	5.39	4.88	P12024TR-ND	3,000	2340.00/M	LNJ010X6FRA
Ultra Brightness InGaAlP LED																					
9	Ultra Bright Red	Clear Non Diffused	InGaAlP	55	20	4	-25~+85	23	12	20	1.92	2.5	645	P11583CT-ND	.72	.68	.62	P11583TR-ND	3,000	293.00/M	LNJ210C62RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-25~+85	48	25	20	2.03	2.5	630	P11584CT-ND	.72	.68	.62	P11584TR-ND	3,000	293.00/M	LNJ810C63RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-25~+85	45	24	20	1.95	2.5	620	P11585CT-ND	.72	.68	.62	P11585TR-ND	3,000	293.00/M	LNJ810C68RA
	Soft Orange	Clear Non Diffused	InGaAlP	50	20	4	-25~+80	30	12	20	1.95	2.5	615	P11586CT-ND	.72	.68	.62	P11586TR-ND	3,000	293.00/M	LNJ810C67RA
	Amber	Clear Non Diffused	InGaAlP	50	20	4	-25~+80	22.5	8.5	20	2	2.5	595	P11587CT-ND	.72	.68	.62	P11587TR-ND	3,000	293.00/M	LNJ410C64RA
	Yellow Green	Clear Non Diffused	InGaAlP	50	20	4	-25~+80	15	7.7	20	2	2.5	575	P11588CT-ND	.72	.68	.62	P11588TR-ND	3,000	293.00/M	LNJ310C63RA

* Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type

(Continued)

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Fig. 16 — Side view (Bi-Color)

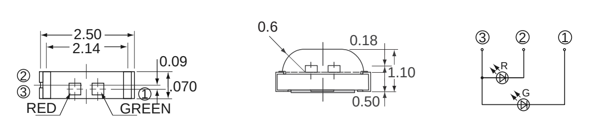


Fig. 17 — TSS Tri-Color Type

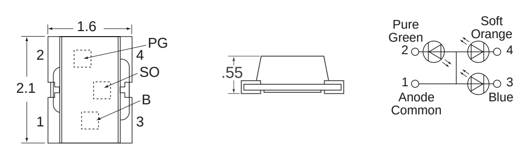


Fig. 18 — Tri-Color Leadless

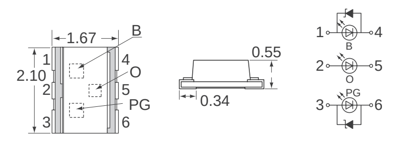


Fig. 19 — Tri-Color Leadless

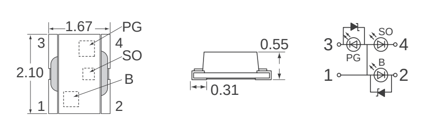


Fig. 20 — 0603 Leadless-Lo-Profile

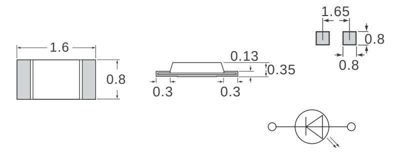


Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings (mW) PD	(mA) IF	(V) VR	(°C) Topr	Io (mcd) Typ.	(mcd) Min.	(mA) IF	VF(V) Typ.	VF(V) Max.	λP Typ.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
Gull Wing GW Type with Refractive Case																					
10	Red	Clear	GaP	60	20	4	-25~+80	1.4	0.5	15	2.2	2.8	700	P503CT-ND	.33	.31	.28	P503TR-ND	2,000	128.00/M	LN1261CTR
	High Bright Red	Clear	GaAlAs	50	20	3	-25~+80	12	5	20	1.8	2.6	660	P513CT-ND	.44	.41	.37	P513TR-ND	2,000	148.00/M	LN1261CALTR
	Orange	Clear	GaAsP	60	20	3	-25~+80	5	1.9	20	2.1	2.8	630	P505CT-ND	.33	.31	.28	P505TR-ND	2,000	138.00/M	LN1861CTR
	Amber	Clear	GaAsP	60	20	4	-25~+80	4.5	1.6	20	2.2	2.8	590	P512CT-ND	.34	.31	.29	P512TR-ND	2,000	138.00/M	LN1461CTR
	Yellow Green	Clear	GaP	60	20	4	-25~+80	7.5	2.8	20	2.2	2.8	565	P504CT-ND	.33	.31	.28	P504TR-ND	2,000	128.00/M	LN1361CTR
	Hight Bright Yellow Green	Clear	GaP	60	20	4	-25~+80	15	8	20	2.2	2.8	565	P514CT-ND	.38	.35	.32	P514TR-ND	2,000	128.00/M	LNJ361C3UR01
Ultra Brightness InGaAlP LED																					
10	Amber	Clear	InGaAlP	50	20	4	-25~+85	18	6.5	10	2	2.3	595	P11128CT-ND	.58	.53	.49	P11128TR-ND	2,000	276.00/M	LNJ461C34RA
1206 J- Lead J Type with Refractive Case																					
11	Red	Clear	GaAsP	45	15	4	-25~+80	1.2	0.45	10	2.1	2.8	700	P500CT-ND	.33	.31	.28	P500TR-ND	3,000	128.00/M	LN1251CTR
	High Bright Red	Clear	GaAlAs	45	15	3	-25~+85	9	3.3	10	1.75	2.6	660	P11126CT-ND	.44	.41	.38	P11126TR-ND	3,000	148.00/M	LN1251CALTR
	Orange	Clear	GaAsP	45	15	3	-25~+80	3.5	1.3	10	0.05	2.8	630	P502CT-ND	.33	.31	.28	P502TR-ND	3,000	138.00/M	LN1851CTR
	Amber	Clear	GaAsP	45	15	4	-25~+80	2.2	0.8	10	2.1	2.8	590	P511CT-ND	.33	.31	.28	P511TR-ND	3,000	138.00/M	LN1451CTR
	Yellow Green	Clear	GaP	45	15	4	-25~+80	5	1.9	10	2.1	2.8	565	P501CT-ND	.33	.31	.28	P501TR-ND	3,000	128.00/M	LN1351CTR
Ultra Brightness GaN LED																					
11	Blue	Clear	InGaN	40	10	5	-25~+85	9	3	5	3.2	3.7	470	P11127CT-ND	3.83	3.51	3.19	P11127TR-ND	3,000	1895.00/M	LNJ951C4BRA
Leadless TSS- Type Bi-Color																					
12	Yellow Green	White Diffused	GaP	60	20	4	-30~+85	5	1.8	10	2.03	2.6	565	P11142CT-ND	.80	.74	.67	P11142TR-ND	5,000	170.00/M	LNJ115W8ARA
	Orange	White Diffused	GaAsP	60	20	3	-30~+85	1	0.4	10	1.93	2.6	630								
	Yellow Green	White Diffused	GaP	60	20	4	-30~+85	5	1.8	10	2.03	2.6	565	P11143CT-ND	.80	.74	.67	P11143TR-ND	5,000	188.00/M	LNJ115W8PRA
	High Bright Red	White Diffused	GaAlAs	50	20	3	-30~+85	6.7	2.2	10	1.72	2.5	655								
Ultra Brightness InGaAlP / GaN LED Combination																					
12	Yellow Green	White Diffused	GaP	60	20	4	-30~+85	5	1.8	10	2.03	2.6	565	P11144CT-ND	1.11	1.02	.93	P11144TR-ND	5,000	448.00/M	LNJ115W88RA
	Amber	White Diffused	InGaAlP	55	20	4	-30~+85	21	7	10	2.1	2.6	595								
	Yellow Green	White Diffused	GaP	60	20	4	-30~+85	5	1.8	20	2.03	2.6	565	P11591CT-ND	1.22	1.14	1.03	P11591TR-ND	5,000	448.00/M	LNJ115W89RA
	Soft Orange	White Diffused	InGaAlP	55	20	4	-30~+85	21	7	20	1.95	2.5	615								
	Pure Green	White Diffused	GaN	40	10	5	-30~+85	34	12.9	10	3	3.7	525	P11590CT-ND	5.62	5.27	4.92	P11590TR-ND	5,000	2331.00/M	LNJ115W86RA
	High Bright Red	White Diffused	GaAlAs	55	20	3	-30~+85	6.7	2.8	20	1.72	2.5	655								
	Blue	White Diffused	GaN	40	10	5	-30~+85	8.5	4	10	3.2	3.7	470	P11589CT-ND	5.62	5.27	4.92	P11589TR-ND	5,000	2331.00/M	LNJ115W8HRA
	High Bright Red	White Diffused	GaAlAs	55	20	3	-30~+85	6.7	2.8	20	1.72	2.5	655								
	Pure Green	White Diffused	GaN	40	10	5	-30~+85	34	10.3	5	3	3.7	525	P11145CT-ND	5.78	5.31	4.83	P11145TR-ND	5,000	2331.00/M	LNJ115W8VRA
	Soft Orange	White Diffused	InGaAlP	55	20	4	-30~+85	23	7	10	1.95	2.5	615								
S-GW Gull Wing Type Bi-Color																					
13	High Bright Yellow Green	White Diffused	GaP	60	20	4	-25~+85	5	3	10	2.03	2.6	565	P526CT-ND	.75	.69	.63	P526TR-ND	3,000	237.00/M	LNJ107W5PRW
	High Bright Red	White Diffused	GaAlAs	60	20	3	-25~+85	5	1.7	10	1.72	2.5	660								
	Yellow Green	White Diffused	GaP	60	20	4	-25~+85	2.6	0.9	10	2.03	2.6	565	P515CT-ND	.75	.69	.63	P515TR-ND	3,000	217.00/M	LNJ107W5ARA1
	Orange	White Diffused	GaAsP	60	20	3	-25~+85	1	0.4	10	1.93	2.6	630								
Gull Wing Type Bi-Color with Refractive Case																					
14	Green	Clear	GaP	45	15	4	-25~+80	4	1.5	10	2.05	2.8	565	P507CT-ND	.75	.69	.63	P507TR-ND	1,000	256.00	LN2162C13TR
	Red	Clear	GaAsP	45	15	3	-25~+80	1.8	0.65	10	2	2.8	650								
	Pure Green	Clear	GaAsP	45	15	3	-25~+65	2.5	12	10	2.05	2.8	555	P11147CT-ND	.80	.74	.67	P11147TR-ND	1,000	256.00	LN2162C68TR
	Orange	Clear	GaAsP	45	15	3	-25~+65	2.1	0.8	10	1.95	2.8	630								
Dome Lens Leadless Bi-Color LED																					
15	Yellow/Green	White Diffused	GaP	60	20	4	-30~+85	10	5	10	2.03	2.6	565	P594CT-ND	.85	.79	.72	P594TR-ND	2,500	378.00/M	LNJ121W84RA
	High Bright Red	White Diffused	InGaAlP	55	20	4	-30~+85	13.4	7	10	1.92	2.5	645								
Side View Smaller Size Leadless Bi-Color LED																					
16	Yellow/Green	White Diffused	GaP	60	20	4	-30~+85	5	1.8	10	2.03	2.6	565	P593CT-ND	.85	.79	.72	P593TR-ND	4,000	378.00/M	LNJ123W8PRZ
	High Bright Red	White Diffused	GaAlAs	50	20	3	-30~+85	4	1.5	10	1.72	2.5	655								
Tri-Color Leadless LED Ultra Bright LED Combination																					
17	Blue	White Diffused	InGaN	40	15	5	-30~+85	10	5	5	3	3.7	470	P11146CT-ND	11.12	10.20	9.27	P11146TR-ND	2,000	4533.00/M	LNJ717W80RA
	Pure Green	White Diffused	InGaN	40	15	5	-30~+85	34	28	5	3	3.7	525								
	Soft Orange	White Diffused	InGaAlP	55	20	4	-30~+85	23	10	10	1.95	2.5	615								
18	Blue	White Diffused	GaN	65	15	4	-30~+85	35	10	15	3.1	3.7	470	P11592CT-ND	10.47	9.82	9.16	P11592TR-ND	2,000	4776.00/M	LNJ717W83RAS
	Pure Green	White Diffused	GaN	65	15	4	-30~+85	85	50	15	3.1	3.7	525								
	Orange	White Diffused	InGaAlP	70	20	4	-30~+85	45	15	20	2	2.5	630								
19	Blue	White Diffused	GaN	65	15	4	-30~+85	30	18	15	3.1	3.7	470	P11593CT-ND	10.47	9.82	9.16	P11593TR-ND	2,000	4776.00/M	LNJ717W80RA1
	Pure Green	White Diffused	GaN	65	15	4	30~+85	30	18	15	3.1	3.7	525								
	Soft Orange	White Diffused	InGaAlP	70	20	4	30~+85	45	20	20	1.95	2.5	615								
0603 Leadless Lo-Profile																					
20	White Light	White Diffused	GaN	27	7	5	-30~+85	25	13	5	3.1	3.7	—	P12022CT-ND	4.91	4.58	4.15	P12022TR-ND	5,000	1809.00/M	LNJ026X8BRA

Fig. 1

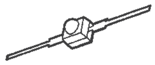


Fig. 2

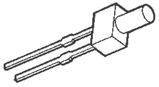


Fig. 3

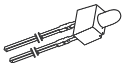


Fig. 4

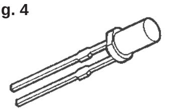


Fig. 5

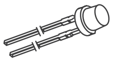


Fig. 6

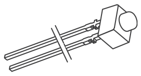


Fig. 7

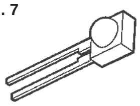


Fig. 8

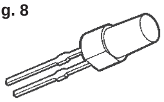


Fig. 9

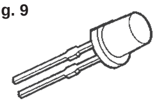


Fig. 10

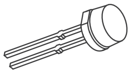


Fig. 11

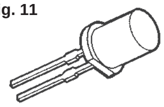


Fig. 12

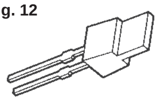


Fig. 13

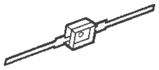


Fig. 14

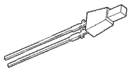


Fig. 15

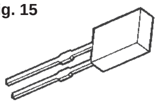


Fig. 16

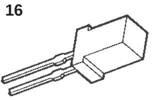


Fig. 17

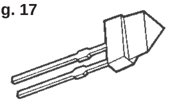
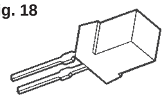


Fig. 18



				Electro-Optical Characteristics (Ta=25°C)					Dimensions (mm)				Price Each			
Fig.	Lens Size (mm)	Color	Process Technology	P_D (mW)	I_F (mA)	V_R (V)	I_O (mcd)	λp (nm)	Lens Height	Lead Length	Lead Spacing	Digi-Key Part No.	10	200	1,000	Panasonic Part No.
1	Ø1.8	Red Diffused	Gap	70	25	4	0.7	700	2.8	8.6, 8.6	—	P421-ND	.37	.30	.23	LN247RP
	Ø1.8	Green Diffused	Gap	90	30	4	4.5	565	2.8	8.6, 8.6	—	P422-ND	.42	.34	.26	LN347GP
	Ø1.8	Amber Diffused	GaAsP	90	30	4	4.0	590	2.8	8.6, 8.6	—	P423-ND	.48	.39	.30	LN447YP
2	Ø2.0	Red Diffused	Gap	70	20	4	1.0	700	8.0	14, 15.5	2.54	P424-ND	.22	.18	.12	LN222RP
	Ø2.0	Green Diffused	Gap	90	20	4	1.0	565	8.0	14, 15.5	2.54	P425-ND	.23	.18	.15	LN322GP
	Ø2.0	Amber Diffused	GaAsP	90	20	4	2.5	590	8.0	14, 15.5	2.54	P426-ND	.28	.23	.15	LN422YP
	Ø2.0	Red Diffused	Gap	70	25	4	1.0	700	8.0	27.0, 28.5	2.54	P544-ND	.35	.31	.19	LN222RPH
	Ø2.0	Green Diffused	Gap	90	30	4	1.0	565	8.0	27.0, 28.5	2.54	P545-ND	.35	.31	.19	LN322GPH
	Ø2.0	Amber Diffused	GaAsP	90	30	4	2.5	590	8.0	27.0, 28.5	2.54	P546-ND	.36	.31	.20	LN422YPH
3	Ø2.0	Red Diffused	Gap	70	25	4	1.0	700	7.7	32.0, 33.5	2.54	P547-ND	.35	.31	.19	LN282RPX
	Ø2.0	Green Diffused	Gap	90	30	4	1.2	565	7.7	32.0, 33.5	2.54	P548-ND	.35	.31	.19	LN382GPX
	Ø2.0	Amber Diffused	GaAsP	90	30	4	2.0	590	7.7	32.0, 33.5	2.54	P549-ND	.35	.31	.22	LN482YPX
	Ø2.0	Orange/Red Diff	GaAsP	90	30	3	6.0	630	7.7	32.0, 33.5	2.54	P550-ND	.35	.31	.22	LN882RPX
4	Ø2.8	Red Clear†	Gap	70	25	4	0.6	700	5.5	15.5, 17.0	2.54	P376-ND	.22	.18	.12	LN263CPP
	Ø2.8	Green Clear	Gap	90	30	4	0.8	565	5.5	15.5, 17.0	2.54	P377-ND	.23	.18	.13	LN363GCPP
	Ø2.8	Amber Clear	GaAsP	90	30	4	0.8	590	5.5	15.5, 17.0	2.54	P378-ND	.28	.23	.14	LN463YCPP
	Ø2.8	Orange Clear	GaAsP	90	30	3	1.0	630	5.5	15.5, 17.0	2.54	P379-ND	.28	.23	.14	LN863RCPP
5	Ø3.0	Red Diffused	Gap	70	25	4	0.7	700	3.8	24.5, 26.0	2.54	P551-ND	.28	.23	.14	LN277RPX
	Ø3.0	Green Diffused	Gap	90	30	4	5.0	565	3.8	24.5, 26.0	2.54	P552-ND	.29	.23	.14	LN377GPX
	Ø3.0	Orange/Red Diff	GaAsP	90	30	3	5.0	630	3.8	24.5, 26.0	2.54	P553-ND	.32	.26	.16	LN877RPX
6	Ø3.0	Red Diffused	Gap	70	25	4	2.0	700	6.0	27.0, 28.5	2.54	P554-ND	.27	.22	.14	LN238RPH
	Ø3.0	Green Diffused	Gap	90	30	4	4.0	565	6.0	27.0, 28.5	2.54	P555-ND	.29	.23	.14	LN338GPH
	Ø3.0	Amber Diffused	GaAsP	90	30	4	3.0	590	6.0	27.0, 28.5	2.54	P556-ND	.35	.31	.19	LN438YPH
7	Ø3.5	Red Diffused	Gap	70	25	4	0.7	700	2.3	12.5, 12.5	2.54	P441-ND	.31	.25	.19	LN25RP
	Ø3.5	Green Diffused	Gap	90	30	4	1.2	565	2.3	12.5, 12.5	2.54	P442-ND	.40	.32	.20	LN35GP
	Ø3.5	Amber Diffused	GaAsP	90	30	4	0.8	590	2.3	12.5, 12.5	2.54	P443-ND	.40	.32	.20	LN45YP
	Ø3.5	Orange Diffused	GaAsP	90	30	3	1.5	630	2.3	12.5, 12.5	2.54	P444-ND	.40	.32	.20	LN85RP
8	Ø3.7	Red Diffused	Gap	70	25	4	1.0	700	8.65	13.0, 14.5	2.54	P428-ND	.22	.18	.12	LN253RP
	Ø3.7	Green Diffused	Gap	90	30	4	3.0	565	8.65	13.0, 14.5	2.54	P429-ND	.23	.18	.13	LN353GP
	Ø3.7	Amber Diffused	GaAsP	90	30	4	3.0	590	8.65	13.0, 14.5	2.54	P430-ND	.28	.23	.14	LN453YP
9	Ø4.4	Red Clear†	Gap	70	25	4	2.0	700	5.0	14.5, 16.0	2.54	P431-ND	.22	.18	.12	LN240CP
	Ø4.4	Green Clear†	Gap	90	30	4	10.0	565	5.0	14.5, 16.0	2.54	P432-ND	.23	.18	.13	LN340CP
	Ø4.4	Orange/Pink Tint	GaAsP	90	30	3	6.0	630	5.0	14.5, 16.0	2.54	P434-ND	.28	.23	.17	LN840RCP
10	Ø4.4	Green Clear	Gap	90	30	4	10.0	565	5.0	14.5, 16.0	2.54	P557-ND	.29	.23	.14	LN340GCP
	Ø4.4	Amber Clear	GaAsP	90	30	4	5.0	590	5.0	14.5, 16.0	2.54	P558-ND	.35	.31	.19	LN440YCP
	Ø4.4	Red Diffused	Gap	70	25	4	0.8	700	5.0	27.3, 28.8	2.54	P559-ND	.28	.23	.14	LN240RPX
	Ø4.4	Green Diffused	Gap	90	30	4	2.5	565	5.0	27.3, 28.8	2.54	P560-ND	.29	.23	.14	LN340GPX
	Ø4.4	Orange/Red Diff	GaAsP	90	30	3	4.5	630	5.0	27.3, 28.8	2.54	P561-ND	.32	.26	.16	LN840RPX
11	Ø5.0	Red Clear†	Gap	70	25	4	0.6	700	6.7	13.3, 14.8	2.54	P380-ND	.22	.18	.12	LN264CP
	Ø5.0	Green Clear	Gap	90	30	4	2.0	565	6.7	13.3, 14.8	2.54	P381-ND	.23	.18	.13	LN364GCP
	Ø5.0	Amber Clear	GaAsP	90	30	4	1.0	590	6.7	13.3, 14.8	2.54	P382-ND	.28	.23	.14	LN464YCP
	Ø5.0	Orange Clear	GaAsP	90	30	3	1.0	630	6.7	13.3, 14.8	2.54	P383-ND	.29	.24	.18	LN864RCP
12	□ 1.0x5.0	Red Diffused	Gap	70	25	4	0.6	700	8.5	13.0, 14.5	2.54	P315-ND*	.22	.18	.12	LN224RP
	□ 1.0x5.0	Green Diffused	Gap	90	30	4	2.5	565	8.5	13.0, 14.5	2.54	P316-ND*	.23	.18	.12	LN324GP
	□ 1.0x5.0	Amber Diffused	GaAsP	90	30	4	2.0	590	8.5	13.0, 14.5	2.54	P317-ND	.28	.23	.13	LN424YP
13	□ 1.7x2.5	Red Clear†	Gap	60	20	4	1.5	700	—	8.5 Typ.	—	P417-ND	.28	.23	.16	LN01201C
	□ 1.7x2.5	Green Clear†	Gap	60	20	4	10.0	565	—	8.5 Typ.	—	P418-ND	.31	.25	.16	LN01301C
	□ 1.7x2.5	Amber Clear†	GaAsP	60	20	4	5.0	590	—	8.5 Typ.	—	P419-ND	.34	.27	.17	LN01401C
	□ 1.7x2.5	Orange Clear†	GaAsP	60	20	4	8.0	630	—	8.5 Typ.	—	P420-ND	.34	.27	.17	LN01801C
14	□ 1.8x1.8	Red Diffused	Gap	80	25	4	0.5	700	10.0	25.5, 27.0	2.54	P385-ND	.22	.18	.12	LN265RPH
	□ 1.8x1.8	Green Diffused	Gap	90	30	4	1.0	565	10.0	25.5, 27.0	2.54	P386-ND	.23	.18	.13	LN365GPH
	□ 1.8x1.8	Amber Diffused	GaAsP	90	30	4	2.5	590	10.0	25.5, 27.0	2.54	P387-ND	.28	.23	.17	LN465YP
15	□ 2.0x5.0	Red Diffused	Gap	70	20	4	0.4	700	7.5	14.5, 16.0	2.54	P437-ND	.22	.18	.12	LN242RP
	□ 2.0x5.0	Green Diffused	Gap	70	20	4	1.0	565	7.5	14.5, 16.0	2.54	P438-ND	.23	.18	.12	LN342GP
	□ 2.0x5.0	Amber Diffused	GaAsP	90	20	4	2.0	590	7.5	14.5, 16.0	2.54	P439-ND	.28	.23	.13	LN442YP
	□ 2.0x5.0	Orange Diffused	GaAsP	90	30	3	2.5	630	7.5	14.5, 16.0	2.54	P440-ND	.32	.26	.13	LN842RP
16	□ 4.0x4.0	Red Diffused	Gap	70	20	4	0.6	700	8.5	13.3, 14.8	2.54	P445-ND	.22	.18	.12	LN252RP
	□ 4.0x4.0	Green Diffused	Gap	90	30	4	1.0	565	8.5	13.3, 14.8	2.54	P446-ND	.23	.18	.12	LN352GP
	□ 4.0x4.0	Amber Diffused	GaAsP	90	40	4	1.0	590	8.5	13.3, 14.8	2.54	P447-ND	.28	.23	.13	LN452YP
17	∆ 4.0x4.5	Red Diffused	Gap	70	25	4	0.4	700	5.5	15.0, 16.5	2.54	P318-ND*	.22	.18	.12	LN212RP
	∆ 4.0x4.5	Green Diffused	Gap	90	30	4	1.0	565	5.5	15.0, 16.5	2.54	P319-ND*	.23	.18	.12	LN312GP
18	□ 5.0x5.0	Red Diffused	Gap	70	30	4	2.0	700	9.0	13.6, 15.1	2.54	P448-ND	.22	.18	.12	LN250RP
	□ 5.0x5.0	Green Diffused	Gap	90	30	4	2.0	545	9.0	13.6, 15.1	2.54	P449-ND	.23	.18	.12	LN350GP
	□ 5.0x5.0	Amber Diffused	GaAsP	90	30	4	1.5	590	9.0	13.6, 15.1	2.54	P450-ND	.28	.23	.13	LN450YP

* **LED-KIT-ND** ***Digi-Key® LED Kit*** 10 each of 18 popular LEDs (180 total pieces), remaining 14 part numbers shown on back cover **$33.98**

† Water Clear Lens when off

Panasonic® LEDs — Level Meters High Brightness GA AIAs Red Light-Emitting Diodes

Fig. 1

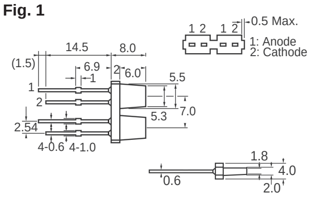


Fig. 2 – 1.75 x 7.0 rectangular

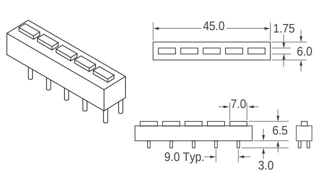


Fig. 3 – 2.8mm round

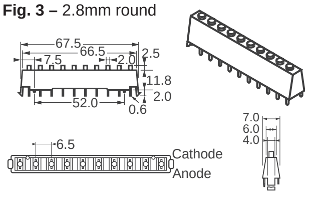


Fig. 4 – 10 Segment End to End Stackable

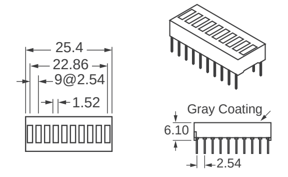


Fig. 5 – **T-1** 3mm dia.

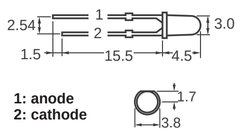


Fig. 6 – **T-1¾** 5mm dia.

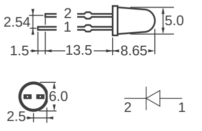


Fig. 7 – **T-1¾** 5mm dia.

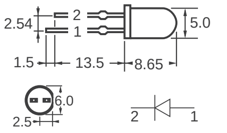


Fig. 8 – **T-1¾** 5mm dia.

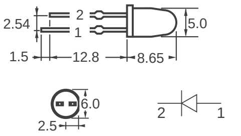


Fig. 9 – **T-1¾** 5mm dia.

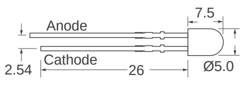


Fig.	Package	Color (Diffused)	IO (mcd @5mA) Typ.	Electro-Optical Characteristics (Ta=25°C) PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Dimensions (mm) Lens Height	Lead Length	Digi-Key Part No.	Price Each 1	10	200	Panasonic Part No.
1	2 Elements	Red	—	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P516-ND	.50	.45	.39	LN02202P
	2 Elements	Green	—	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P517-ND	.66	.60	.52	LN02302P
	3 Elements	Red	—	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P519-ND	.74	.68	.59	LN03202P
	3 Elements	Green	—	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P520-ND	.98	.90	.77	LN03302P
	3 Elements	Amber	—	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P521-ND	.98	.90	.77	LN03402P
	4 Elements	Red	—	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P522-ND	.91	.83	.71	LN04202P
	4 Elements	Green	—	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P523-ND	1.31	1.20	1.03	LN04302P
	5 Elements	Red	—	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P525-ND	1.25	1.14	.98	LN05202P
	5 Elements	Green	—	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P526-ND	1.64	1.49	1.28	LN05302P
	5 Elements	Amber	—	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P527-ND	1.64	1.49	1.28	LN05402P
	6 Elements	Red	—	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P528-ND	1.50	1.37	1.18	LN06202P
	6 Elements	Green	—	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P529-ND	1.95	1.78	1.53	LN06302P
	6 Elements	Amber	—	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P530-ND	1.95	1.78	1.53	LN06402P
	7 Elements	Red	—	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P531-ND	1.75	1.60	1.37	LN07202P
	7 Elements	Green	—	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P532-ND	2.28	2.08	1.79	LN07302P
	7 Elements	Amber	—	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P533-ND	2.45	2.23	1.92	LN07402P
2	—	Red	—	70	4	25	0.4	700	□1.75x7.0	7.65	24.1, 25.6, 27.1	P397-ND	1.45	1.32	1.14	LN05201P
3	—	Green	—	90	4	30	1.0	565	Ø2.0	2.5	2.0	P401-ND	3.85	3.50	3.01	LN10304P
4	10 Elements	Green	—	60	5	20	1900	565	□1.52x5.08	—	4.6	P10722-ND	6.28	5.71	4.91	LNV310105A
	10 Elements	Red	—	60	3	20	1000	630	□1.52x5.08	—	4.6	P10723-ND	6.28	5.71	4.91	LNV810105A
HIGH BRIGHTNESS LEDs																
5	—	Red	6	70	3	30	50	665	Ø3.0	5.0	15.0, 16.5	P403-ND	.38	.35	.31	LN28RALUS
	—	Red (White)	14	70	3	30	50	665	Ø3.0	5.0	15.0, 16.5	P404-ND	.38	.35	.31	LN28WALUS
	—	Red†	20	70	3	30	85	665	Ø3.0	5.0	15.0, 16.5	P405-ND	.38	.35	.31	LN28CALUS
6	—	Red†	110	70	3	30	300	665	Ø5.0	8.65	12.0, 13.5	P406-ND	.39	.35	.31	LN21CALUS
	—	Red†	190	70	3	30	1000	665	Ø5.0	8.65	12.0, 13.5	P407-ND	.69	.63	.54	LN21CALURS
7	—	Red†	470	70	3	30	2000	665	Ø5.0	8.65	12.0, 13.5	P408-ND	.96	.88	.76	LN261CALUR
8	—	Red	20	70	3	30	200	660	Ø5.0	8.65	12.0, 13.5	P458-ND	.69	.63	.54	LN21RUQ
	—	Red†	20	70	3	30	85	665	Ø5.0	8.65	12.0, 13.5	P410-ND	.38	.35	.31	LN21CALU
9	—	Green†	—	90	4	30	120	565	Ø5.0	7.5	26, 27.5	P461-ND	.30	.28	.24	LNG305CFT

† Nondiffused lens. Water clear lens when off.

Optoelectronics LEDs — Two Color

Fig. 1

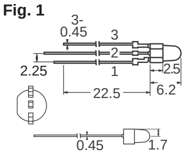


Fig. 2

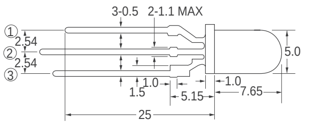


Fig. 3

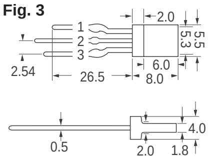


Fig. 4

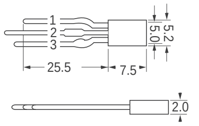


Fig. 5

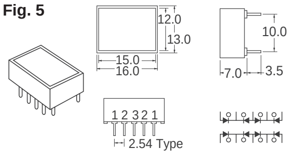
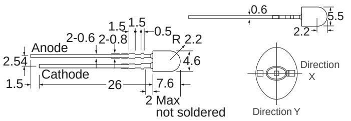


Fig.	Radiation Color/ Lens Color	Electro-Optical Characteristics (Ta=25°C) PD (mW)	IF (mA)	VR (V)	IO (mcd)	λp (nm)	Dimensions (mm) Lens Size	Lead Length	Digi-Key Part No.	Pricing 1	10	200	1,000	Panasonic Part No.
1	*1. Green/3. Orange/White Diffused	90/90	30/30	4/3	8.0/8.0	565/630	Ø3.0	22.5, 24.5, 26.5	P509-ND	.66	6.00	103.20	240.84	LN086WP38
2	*1. Green/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P391-ND	.59	5.40	92.88	240.84	LN11WP23
	*1. Green/3. Red/Clear	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P392-ND	.59	5.40	92.88	240.84	LN11CP23
	*1. Amber/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P393-ND	.66	6.00	103.20	240.84	LN11WP24
	*1. Amber/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P395-ND	.66	6.00	103.20	240.84	LN11WP34
	*1. Orange/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P399-ND	.66	6.00	103.20	240.84	LN11WP38
3	*1. Green/3. Red/White Diffused	70/90	25/30	4/4	.6/4.5	700/565	□1.8x5.3	26.5, 28.0, 29.5	P435-ND	.59	5.40	92.88	240.84	LN117WP23
4	*1. Orange/3. Green/White Diffused	90/90	30/30	4/3	3/2.5	565/630	□2.0x5.0	25.5, 27.0, 28.5	P436-ND	.66	6.00	103.20	240.84	LN142WP38
5	*1. Orange/3. Green/White Diffused	60	20	3	8.0	565	□12.0x15.0	3.5 typ.	P396-ND	3.22	29.24	502.95	2164.57	LN0801WP38

* Common Cathode

Wide Angle LEDs

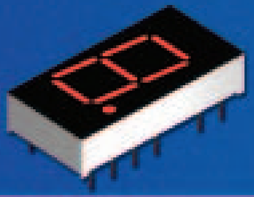


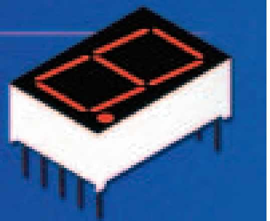
Color	Io mcd Typ	mcd Min	(mA) IF	VF (V) Max	Typ	λp Typ	Δλ Typ	(mA) IF	IR (μA) Max	(V) VR	Viewing Angle (deg) x	y	IFDC Max	IFP* Max	Digi-Key Part No.	Pricing 1	10	200	Panasonic Part No.
Red	300	120	20	2.6	1.8	660	20	20	100	3	15	35	30	150	P462-ND	.59	5.40	92.88	LNG295LFCP2U
Green	120	75	20	2.8	2.2	565	30	20	10	4	17	35	30	150	P463-ND	.30	2.75	47.30	LNG395MFTP5U
Blue	370	145	20	4.0	3.5	470	30	20	10	5	15	35	30	100	P468-ND	2.67	24.95	463.32	LNG995PFBW

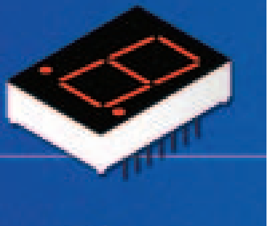
* The condition of IFP is duty 10%, pulse width 1ms.

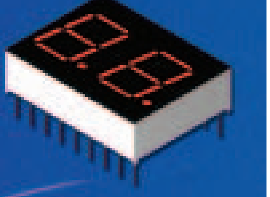
Panasonic®

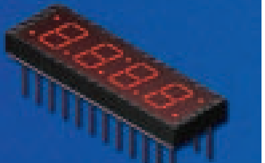
LED Numeric Displays



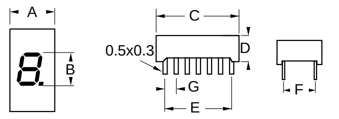






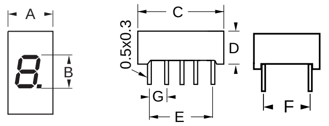


P322-P329, P343-P350

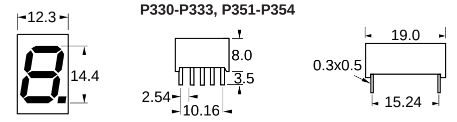


Size	A	B	C	D	E	F	G
0.3A	7.0	8.0	11.0	5.0	8.0	5.3	2.0
0.3B	10.0	7.6	19.0	5.5	15.24	7.6	2.54
.43	11.0	11.0	19.0	5.5	15.24	7.6	2.54

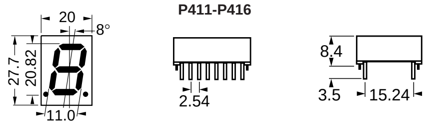
P510-P515



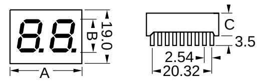
P330-P333, P351-P354

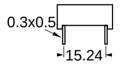


P411-P416



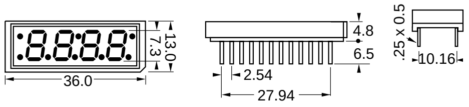
P334-P339, P355-P360





Size	Dim. A	Dim. B	Dim. C
.43	24.0	11.0	6.5
.57	25.1	14.4	8.0

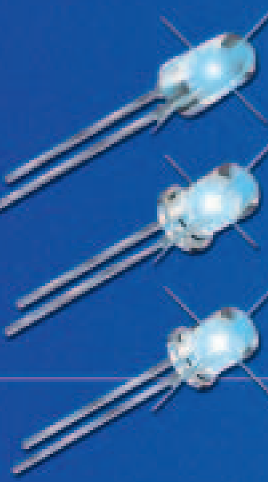
P453-P456



	Absolute Max. Ratings (Ta = 25°C)					Characteristics (Ta = 25°C)					Digi-Key Part No.		Pricing				Panasonic Part No.	
Color	Size	V_R (V)	I_F (mA)	I_{FP}† (mA)	P_D (mW)	at I_F (mA)	IO Typ. (seg.) (µcd)	Typ. (D.P.) (µcd)	at I_F (mA)	VF Typ. (V)	Common Anode	Common Cathode	1	10	200	1000	Common Anode	Common Cathode
Red	0.3A	5	15	80	40	5	200	70	10	2.1	P510-ND	P511-ND	2.09	18.97	326.24	1404.07	LN513RAM	LN513RKM
Green	0.3A	5	15	80	40	10	1,000	300	10	2.1	P512-ND	P513-ND	2.39	21.68	372.97	1605.20	LN513GAM	LN513GKM
Amber	0.3A	5	15	80	40	10	300	100	10	2.0	P514-ND	P515-ND	2.70	24.50	421.40	1813.62	LN513YAM	LN513YKM
Red	0.3B	5	20	100	60	5	400	150	20	2.2	P322-ND	P343-ND	1.56	14.18	243.81	1049.31	LN513RA	LN513RK
Green	0.3B	5	20	100	60	10	1,200	400	20	2.2	P323-ND	P344-ND	1.95	17.75	305.30	1313.95	LN513GA	LN513GK
Amber	0.3B	5	20	100	60	10	600	200	20	2.2	P324-ND	P345-ND	1.90	17.25	296.70	1276.93	LN513YA	LN513YK
Orange	0.3B	3	20	100	60	10	1,000	400	20	2.1	P325-ND	P346-ND	1.95	17.72	304.76	1311.63	LN5130A	LN513OK
Red	.43	5	20	100	60	5	450	150	20	2.2	P326-ND	P347-ND	1.57	14.25	245.10	1054.86	LN514RA	LN514RK
Green	.43	5	20	100	60	10	1,500	500	20	2.2	P327-ND	P348-ND	1.75	15.90	273.42	1176.72	LN514GA	LN514GK
Amber	.43	5	20	100	60	10	600	200	20	2.2	P328-ND	P349-ND	2.11	19.17	329.72	1419.06	LN514YA	LN514YK
Orange	.43	3	20	100	60	10	1,200	500	20	2.1	P329-ND	P350-ND	2.11	19.17	329.72	1419.06	LN5140A	LN5140K
Red	.57	5	20	100	60	5	600	250	20	2.2	P330-ND	P351-ND	1.62	14.72	253.10	1089.28	LN516RA	LN516RK
Green	.57	5	20	100	60	10	1,500	500	20	2.2	P331-ND	P352-ND	1.87	17.00	292.40	1258.43	LN516GA	LN516GK
Amber	.57	5	20	100	60	10	800	300	20	2.2	P332-ND	P353-ND	2.27	20.66	355.27	1528.99	LN516YA	LN516YK
Orange	.57	3	20	100	60	10	1,200	500	20	2.1	P333-ND	P354-ND	2.27	20.66	355.27	1528.99	LN5160A	LN5160K
Red	.82	5	20	100	60	5	450	150	20	2.2	P411-ND	P415-ND	3.16	28.75	494.50	2128.22	LN518RA	LN518RK
Green	.82	5	20	100	60	10	1,500	500	20	2.2	P412-ND	P416-ND	3.82	34.70	596.75	2568.30	LN518GA	LN518GK
Amber	.82	5	20	100	60	10	800	300	20	2.2	P413-ND	—	4.07	37.00	636.40	2738.93	LN518YA	—
Orange	.82	3	20	100	60	10	1,200	500	20	2.1	P414-ND	—	4.07	37.00	636.40	2738.93	LN5180A	—
Red	.43	5	20	100	60	5	450	150	20	2.2	P334-ND	P355-ND	2.11	19.17	329.72	1419.06	LN524RA	LN524RK
Green	.43	5	20	100	60	10	1,500	500	20	2.2	P335-ND	P356-ND	2.44	22.14	380.81	1638.92	LN524GA	LN524GK
Amber	.43	5	20	100	60	10	600	200	20	2.2	P336-ND	P357-ND	2.89	26.25	451.50	1943.16	LN524YA	LN524YK
Red	.57	5	20	100	60	5	600	250	20	2.2	P337-ND	P358-ND	2.06	18.75	322.50	1387.97	LN526RA	LN526RK
Green	.57	5	20	100	60	10	1,500	500	20	2.2	P338-ND	P359-ND	2.44	22.14	380.81	1638.92	LN526GA	LN526GK
Amber	.57	5	20	100	60	10	800	300	20	2.2	P339-ND	P360-ND	2.97	27.00	464.40	1998.68	LN526YA	LN526YK
Red	.28	5	10	60	30	5	200	100	10	2.03	P453-ND*	P454-ND*	9.76	88.75	1526.50	6569.74	LN543RAN8	LN543RKN8
Green	.28	5	10	60	30	10	200	80	10	2.03	P455-ND*	P456-ND*	10.48	95.25	1638.30	7050.90	LN543GAN8	LN543GKN8

* Multiplexed display † The condition of I_{FP} is duty 10%, pulse width is 1 msec.

Blue LEDs



High Brightness

Max Ratings:

Power Consumption: 120mW
Forward Current: 30mA
Reverse Voltage: 5V
Operating Ambient Temperature: -25 ~ +80°C.
Storage Temperature: -30 ~ +100°C
Water clear lens when off.

Blue LED Precautions in Handling:

A blue LED is sensitive to static electricity and care should be fully taken in handling it. Particularly, when an overvoltage is applied, which exceeds the absolute maximum rating of the blue LED, its energy damages the LED.

Fig. 1 T-1¾

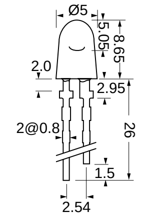


Fig. 2 T-1¾

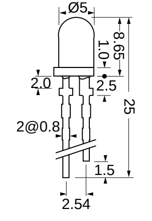
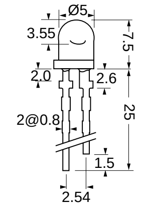
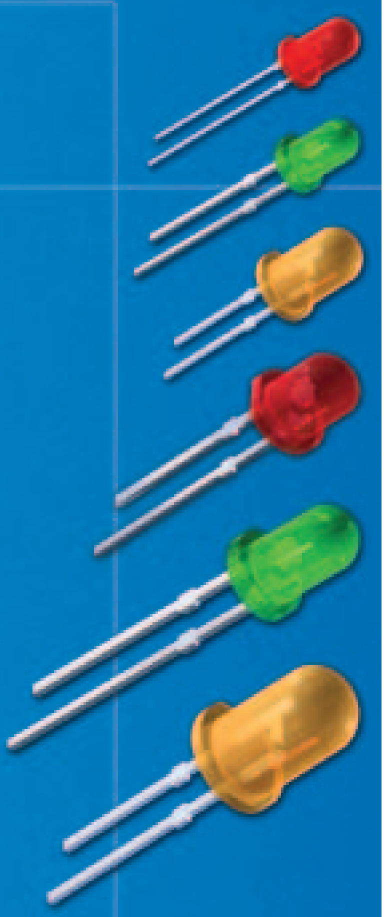


Fig. 3 T-1¾



	Io								IR								
	mcd	mcd	(mA)	VF (V)		λp	Δλ	(mA)	(µA)	(V)	Viewing Angle	Digi-Key	Pricing				Panasonic
Fig.	Typ	Min	I_F	Max	Typ	Typ	Typ	I_F	Max	V_R	(deg)	Part No.	1	10	200	1,000	Part No.
1	1500	640	20	4.0	3.5	470	30	20	10	5	15	P465-ND	2.67	24.95	463.32	1797.50	LNG992CFBW
2	650	260	20	4.0	3.5	470	30	20	10	5	30	P466-ND	2.67	24.95	463.32	1797.50	LNG901CFBW
3	350	140	20	4.0	3.5	470	30	20	10	5	45	P467-ND	2.67	24.95	463.32	1797.50	LNG91LCFBW

Panasonic® LEDs



Package	Lens Size	Color	Electro-Optical Character (Ta=25°C)					Dimensions (mm)		Lead Spacing	Digi-Key Part No.	Pricing				Panasonic Part No.
			P_D (mW)	I_F (mA)	V_R (V)	I_O (mcd)	λ_p (nm)	Lens Height	Lead Length			10	200	1,000	5,000	
T-1	ϕ3.0	Red Diffused	70	25	4	0.8	700	5.0	15.0, 16.5	2.54	P363-ND	1.68	27.00	105.46	97.17/M	LN28RP
	ϕ3.0	Red Clear	70	25	4	1.5	700	5.0	15.0, 16.5	2.54	P308-ND•	1.68	27.00	107.85	99.37/M	LN28RCP
	ϕ3.0	Green Diffused	90	30	4	2.0	565	5.0	15.0, 16.5	2.54	P364-ND	2.15	34.50	112.64	103.78/M	LN38GP
	ϕ3.0	Green Clear	90	30	4	4.0	565	5.0	15.0, 16.5	2.54	P309-ND•	2.15	34.50	112.64	103.78/M	LN38GCP
	ϕ3.0	Amber Diffused	90	30	4	4.0	590	5.0	15.0, 16.5	2.54	P365-ND	2.24	36.00	122.23	112.61/M	LN48YP
	ϕ3.0	Amber Clear	90	30	4	6.0	590	5.0	15.0, 16.5	2.54	P310-ND•	2.24	36.00	122.23	112.61/M	LN48YCP
	ϕ3.0	Orange Diffused	90	30	4	6.0	630	5.0	15.0, 16.5	2.54	P366-ND	2.24	36.00	122.23	112.61/M	LN88RP
	ϕ3.0	Red Diffused	70	25	4	0.8	700	5.0	15.0, 16.5	2.54	P363-ND	1.68	27.00	105.46	97.17/M	LN28RP
	ϕ3.0	Red Clear	70	25	4	3.0	700	5.0	15.0, 16.5	2.54	P562-ND	2.24	36.00	124.62	114.82/M	LN28RCPP
	ϕ3.0	Red Diffused	70	25	4	2.8	700	5.5	26.5, 28.0	2.54	P563-ND	2.24	36.00	124.62	114.82/M	LN28RPX
	ϕ3.0	Green Diffused	90	30	4	10.0	565	5.5	26.5, 28.0	2.54	P564-ND	2.84	45.57	139.01	128.08/M	LN38GPX
	ϕ3.0	Amber Diffused	90	30	4	5.0	590	5.5	26.5, 28.0	2.54	P565-ND	3.50	60.20	187.32	171.29/M	LN48YPX
	ϕ3.0	Orange Red Diff.	90	30	3	5.0	630	5.5	26.5, 28.0	2.54	P566-ND	3.18	51.07	155.79	143.54/M	LN88RPX
	ϕ3.2	Red Diffused	70	25	4	1.0	700	4.6	24.5, 26.0	2.54	P567-ND	2.70	43.44	131.81	121.45/M	LN276RPX
	ϕ3.2	Red Clear	70	25	4	1.5	700	4.6	24.5, 26.0	2.54	P568-ND	2.70	43.44	131.81	121.45/M	LN276RCX
	ϕ3.2	Green Diffused	90	30	4	5.0	565	4.6	24.5, 26.0	2.54	P569-ND	2.84	45.57	139.01	128.08/M	LN376GPX
	ϕ3.2	Green Clear	90	30	4	15.0	565	4.6	24.5, 26.0	2.54	P570-ND	2.84	45.57	139.01	128.08/M	LN376GCPX
	ϕ3.2	Orange Red Clear	90	30	3	10.0	630	4.6	24.5, 26.0	2.54	P571-ND	3.18	51.07	155.79	143.54/M	LN876RCPX
T-1½	ϕ4.0	Red Diffused	70	25	4	2.0	700	6.0	26.45, 27.95	2.54	P572-ND	2.24	36.00	124.62	114.82/M	LN29RPX
	ϕ4.0	Green Diffused	90	30	4	6.0	565	6.0	26.45, 27.95	2.54	P573-ND	2.84	45.57	139.01	128.08/M	LN39GPX
	ϕ4.0	Amber Diffused	90	30	4	10.0	590	6.0	26.45, 27.95	2.54	P574-ND	3.50	60.20	187.32	171.29/M	LN49YPX
	ϕ4.0	Red Diffused	70	25	4	1.5	700	6.0	15.0, 16.5	2.54	P367-ND	1.68	27.00	107.85	99.37/M	LN29RPP
	ϕ4.0	Red Clear	70	25	4	1.5	700	6.0	15.0, 16.5	2.54	P311-ND•	1.68	27.00	107.85	99.37/M	LN29RCP
	ϕ4.0	Green Diffused	90	30	4	5.0	565	6.0	15.0, 16.5	2.54	P368-ND	2.15	34.50	112.64	103.78/M	LN39GPP
	ϕ4.0	Green Clear	90	30	4	3.0	565	6.0	15.0, 16.5	2.54	P312-ND•	2.15	34.50	112.64	103.78/M	LN39GCP
	ϕ4.0	Amber Diffused	90	30	4	10.0	590	6.0	15.0, 16.5	2.54	P369-ND	2.24	36.00	122.23	112.61/M	LN49YPP
	ϕ4.0	Amber Diffused	90	30	4	5.0	590	6.0	15.0, 16.5	2.54	P314-ND•	2.24	36.00	122.23	112.61/M	LN49YP
	ϕ4.0	Orange Diffused	90	30	3	10.0	630	6.0	15.0, 16.5	2.54	P370-ND	2.24	36.00	122.23	112.61/M	LN89RPP
	ϕ4.0	Orange Clear	90	30	3	30.0	630	6.0	15.0, 16.5	2.54	P371-ND	2.24	36.00	122.23	112.61/M	LN89RCPP
	ϕ4.8	Red Clear	70	25	4	4.0	700	6.7	12.5, 14.0	2.54	P575-ND	2.15	34.51	119.83	110.41/M	LN21RCPSS
T-1¾	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	12.0, 13.5	2.54	P300-ND•	1.68	27.00	107.85	99.37/M	LN21RPHL
	ϕ5.0	Red Clear	70	25	4	5.0	700	8.65	12.0, 13.5	2.54	P301-ND•	1.68	27.00	107.85	99.37/M	LN21RCPHL
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	12.0, 13.5	2.54	P303-ND•	2.15	34.50	112.64	103.78/M	LN31GPHL
	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	12.0, 13.5	2.54	P302-ND•	2.15	34.50	112.64	103.78/M	LN31GCPHL
	ϕ5.0	Amber Diffused	90	30	4	8.0	590	8.65	12.0, 13.5	2.54	P306-ND•	2.24	36.00	122.23	112.61/M	LN41YPHL
	ϕ5.0	Amber Clear	90	30	4	20.0	590	8.65	12.0, 13.5	2.54	P304-ND•	2.24	36.00	122.23	112.61/M	LN41YCPHL
	ϕ5.0	Orange Diffused	90	30	3	10.0	630	8.65	12.0, 13.5	2.54	P307-ND•	2.24	36.00	122.23	112.61/M	LN81RPHL
	ϕ5.0	Orange Red Clear	90	30	3	20.0	630	8.65	12.0, 13.5	2.54	P305-ND•	2.24	36.00	122.23	112.61/M	LN81RCPHL
	ϕ5.0	Orange Clear†	90	30	3	25.0	630	8.65	12.0, 13.5	2.54	P457-ND	2.24	36.00	122.23	112.61/M	LN81CPHL
	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P374-ND	1.68	27.00	107.85	99.37/M	LN21RPH
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	25.0, 26.5	2.54	P375-ND	2.15	34.50	112.64	103.78/M	LN31GPH
	ϕ5.0	Amber Diffused	90	30	4	8.0	590	8.65	25.0, 26.5	2.54	P372-ND	2.24	36.00	122.23	112.61/M	LN41YPH
	ϕ5.0	Orange Diffused	90	30	3	10.0	630	8.65	25.0, 26.5	2.54	P373-ND	2.24	36.00	122.23	112.61/M	LN81RPH
	ϕ5.0	Red Clear†	70	25	4	5.0	700	8.65	12.0, 13.5	2.54	P576-ND	2.24	36.00	124.62	114.82/M	LN21CPHL
	ϕ5.0	Green Clear	90	30	4	7.5	555	8.65	12.0, 13.5	2.54	P577-ND	2.70	43.41	127.03	117.04/M	LN31GCPHLG
	ϕ5.0	Orange Diffused#	90	30	3	15.0	630	8.65	12.0, 13.5	2.54	P578-ND	3.50	60.20	187.32	171.29/M	LN81WPHL
	ϕ5.0	Red Diffused	70	25	4	3.0	700	7.5	13.0, 14.5	2.54	P579-ND	2.65	42.59	124.62	114.82/M	LN21RPSL
	ϕ5.0	Green Diffused	90	30	4	15.0	565	7.5	13.0, 14.5	2.54	P580-ND	2.70	43.41	127.03	117.04/M	LN31GPSL
	ϕ5.0	Red Clear	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P581-ND	2.15	34.51	119.83	110.41/M	LN21RCPH
	ϕ5.0	Red Diffused#	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P582-ND	2.15	34.51	119.83	110.41/M	LN21WPH
	ϕ5.0	Red Clear†	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P583-ND	2.15	34.51	119.83	110.41/M	LN21CPH
	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	25.0, 26.5	2.54	P584-ND	2.70	43.41	127.03	117.04/M	LN31GCPH
	ϕ5.0	Green Yellow Clear	90	30	4	56.0	563	8.65	25.0, 26.5	2.54	P585-ND	2.70	43.41	127.03	117.04/M	LN31YCPH
	ϕ5.0	Amber Clear	90	30	4	20.0	590	8.65	25.0, 26.5	2.54	P586-ND	2.75	44.23	129.42	119.24/M	LN41YCPH
	ϕ5.0	Orange Red Clear	90	30	3	20.0	630	8.65	25.0, 26.5	2.54	P587-ND	2.80	45.02	136.62	125.87/M	LN81RCPH
	ϕ5.0	Orange Clear†	90	30	3	25.0	630	8.65	25.0, 26.5	2.54	P588-ND	2.80	45.02	136.62	125.87/M	LN81CPH
	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	27.0, 28.5	2.54	P589-ND	2.24	36.00	124.62	114.82/M	LN21RPX
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	27.0, 28.5	2.54	P590-ND	2.70	43.41	127.03	117.04/M	LN31GPX

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